

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN032223\  
 Data File : VN077126.D  
 Acq On : 23 Mar 2023 04:34  
 Operator : JC\MD  
 Sample : PB151586ZHE002  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Mar 23 09:29:21 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031723W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 20 08:50:30 2023  
 Response via : Initial Calibration

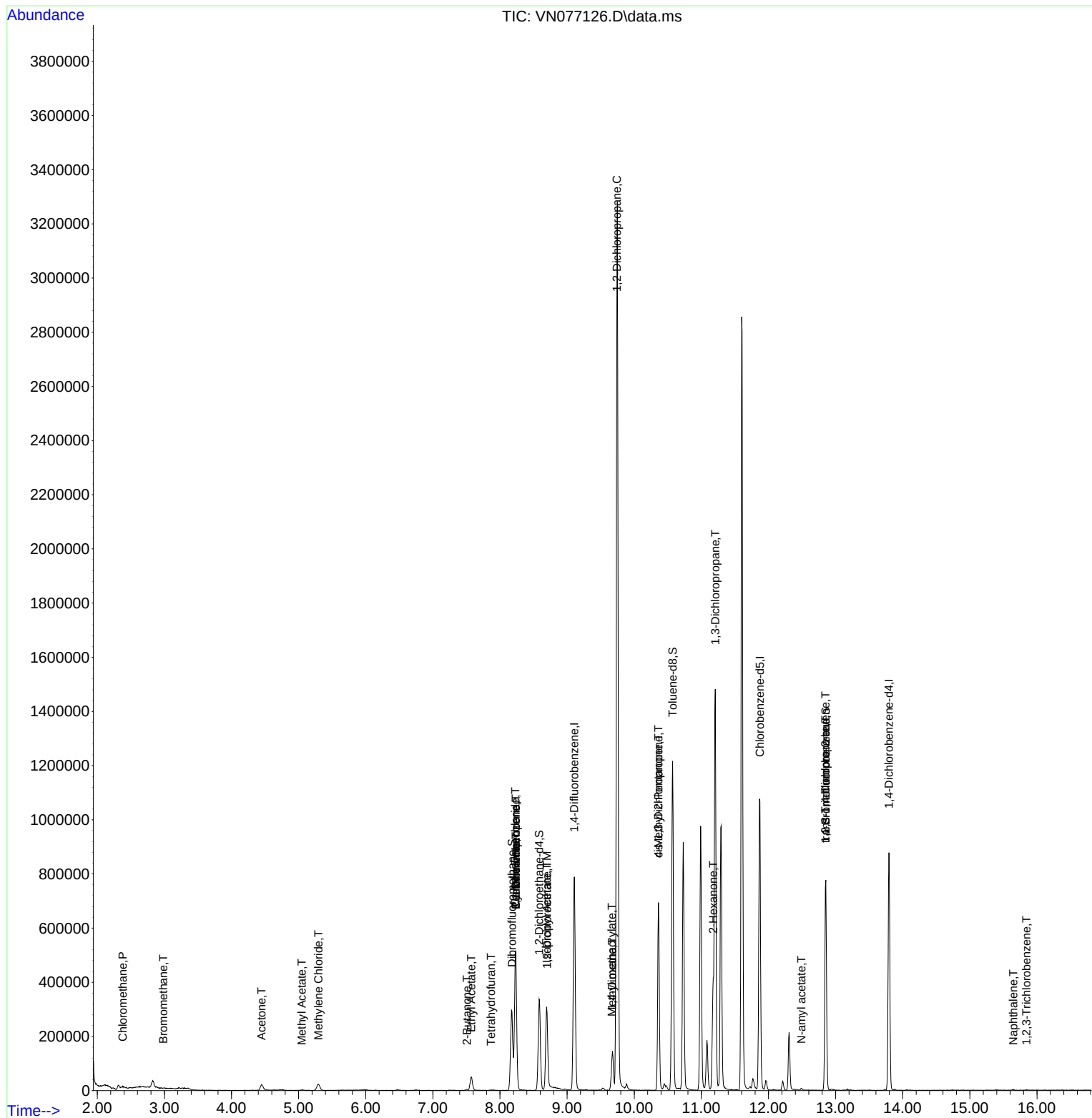
| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) Pentafluorobenzene         | 8.236          | 168  | 362214     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.107          | 114  | 643019     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.872         | 117  | 600668     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.795         | 152  | 232020     | 50.000   | ug/l   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.584          | 65   | 273766     | 47.317   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 94.640%  |        |          |
| 35) Dibromofluoromethane      | 8.178          | 113  | 207279     | 46.030   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 92.060%  |        |          |
| 50) Toluene-d8                | 10.572         | 98   | 816480     | 50.758   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 101.520% |        |          |
| 62) 4-Bromofluorobenzene      | 12.854         | 95   | 258216     | 45.427   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 90.860%  |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          |        | Qvalue   |
| 3) Chloromethane              | 2.378          | 50   | 1074       | 0.294    | ug/l # | 86       |
| 5) Bromomethane               | 2.984          | 94   | 1741       | 0.654    | ug/l # | 61       |
| 16) Acetone                   | 4.448          | 43   | 40596      | 15.747   | ug/l   | 96       |
| 18) Methyl Acetate            | 5.048          | 43   | 3734       | 0.384    | ug/l # | 74       |
| 20) Methylene Chloride        | 5.295          | 84   | 18100      | 3.235    | ug/l   | 93       |
| 25) 2-Butanone                | 7.507          | 43   | 4221       | 1.119    | ug/l   | 99       |
| 29) Tetrahydrofuran           | 7.866          | 42   | 938        | 0.384    | ug/l # | 44       |
| 31) Cyclohexane               | 8.236          | 56   | 10140      | 1.071    | ug/l # | 22       |
| 36) 1,1-Dichloropropene       | 8.236          | 75   | 32974      | 4.688    | ug/l # | 48       |
| 37) Ethyl Acetate             | 7.572          | 43   | 80724      | 10.727   | ug/l   | 97       |
| 38) Carbon Tetrachloride      | 8.231          | 117  | 39017      | 5.695    | ug/l # | 16       |
| 42) 1,2-Dichloroethane        | 8.701          | 62   | 2392       | 0.310    | ug/l # | 76       |
| 43) Isopropyl Acetate         | 8.695          | 43   | 361049     | 30.712   | ug/l # | 86       |
| 45) 1,2-Dichloropropane       | 9.742          | 63   | 4316       | 0.762    | ug/l # | 43       |
| 48) Methyl methacrylate       | 9.666          | 41   | 9659       | 1.719    | ug/l # | 15       |
| 49) 1,4-Dioxane               | 9.672          | 88   | 60         | 0.625    | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.360         | 43   | 261972     | 35.785   | ug/l # | 46       |
| 54) cis-1,3-Dichloropropene   | 10.360         | 75   | 109876     | 13.259   | ug/l # | 77       |
| 57) 1,3-Dichloropropane       | 11.207         | 76   | 14756      | 1.605    | ug/l # | 43       |
| 59) 2-Hexanone                | 11.177         | 43   | 301443     | 56.771   | ug/l # | 24       |
| 74) N-amyl acetate            | 12.489         | 43   | 3624       | 0.403    | ug/l # | 62       |
| 76) 1,2,3-Trichloropropane    | 12.848         | 75   | 144428     | 24.065   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.848         | 75   | 144428     | 66.241   | ug/l # | 10       |
| 95) Naphthalene               | 15.648         | 128  | 3477       | 2.129    | ug/l # | 91       |
| 96) 1,2,3-Trichlorobenzene    | 15.842         | 180  | 801        | 0.201    | ug/l # | 53       |
| -----                         |                |      |            |          |        |          |

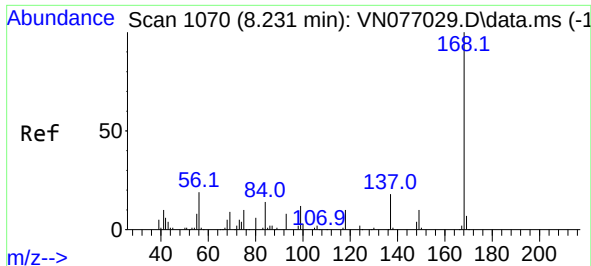
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN032223\  
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Sample : PB151586ZHE002  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 35 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Mar 23 09:29:21 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031723W.M  
Quant Title : SW846 8260  
QLast Update : Mon Mar 20 08:50:30 2023  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.236 min Scan# 10

Delta R.T. 0.005 min

Lab File: VN077126.D

Acq: 23 Mar 2023 04:34

Instrument :

MSVOA\_N

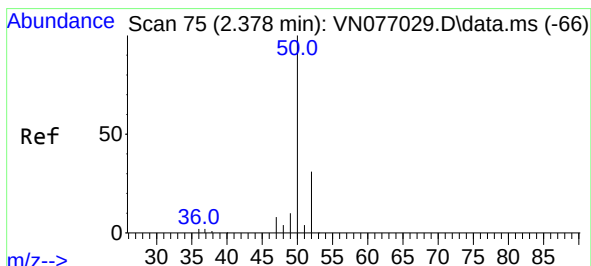
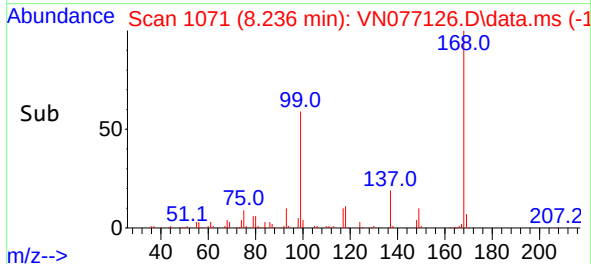
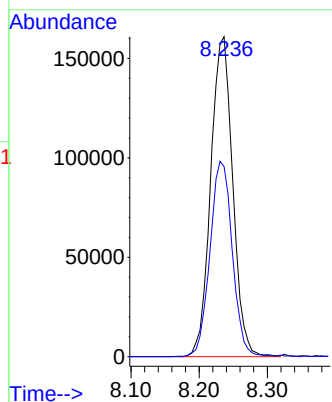
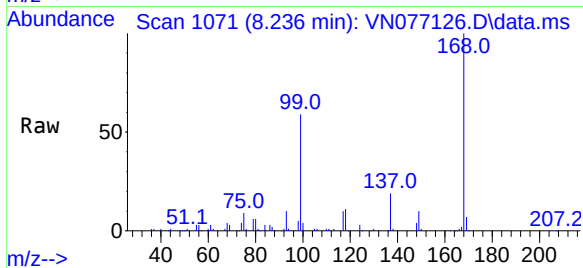
ClientSampleId :

Tgt Ion:168 Resp: 362214

Ion Ratio Lower Upper

168 100

99 59.3 53.9 80.9



#3

Chloromethane

Concen: 0.294 ug/l

RT: 2.378 min Scan# 75

Delta R.T. 0.000 min

Lab File: VN077126.D

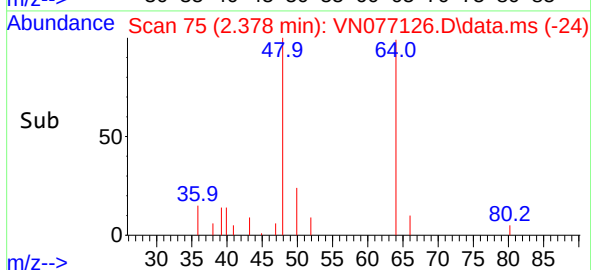
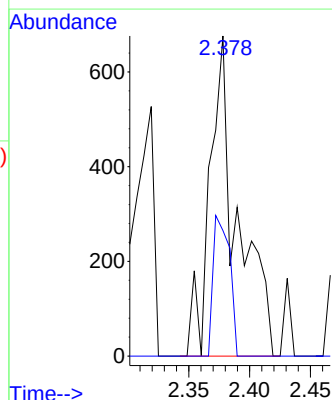
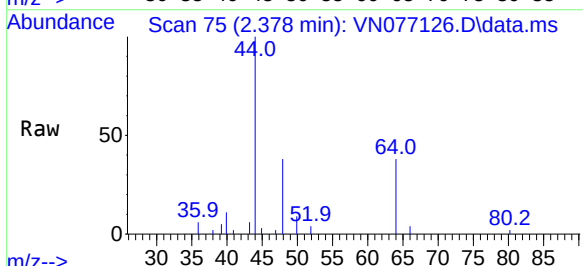
Acq: 23 Mar 2023 04:34

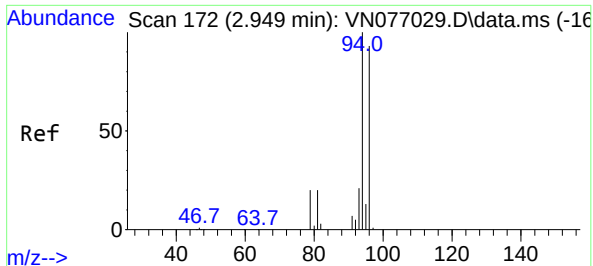
Tgt Ion: 50 Resp: 1074

Ion Ratio Lower Upper

50 100

52 39.2 25.1 37.7#

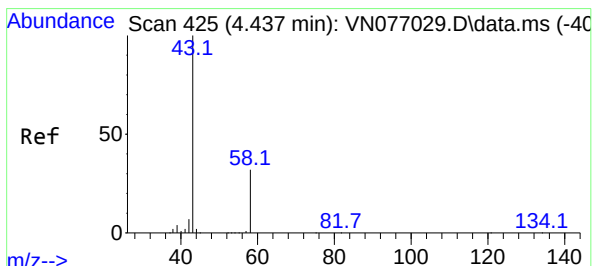
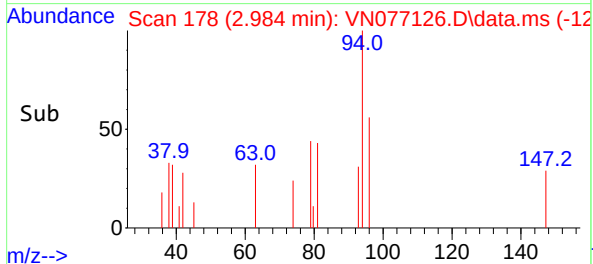
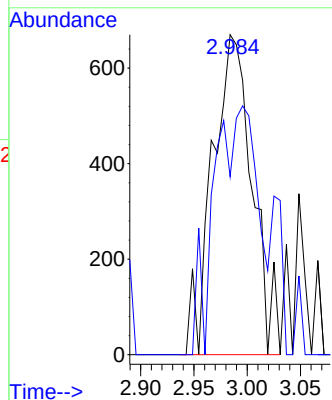
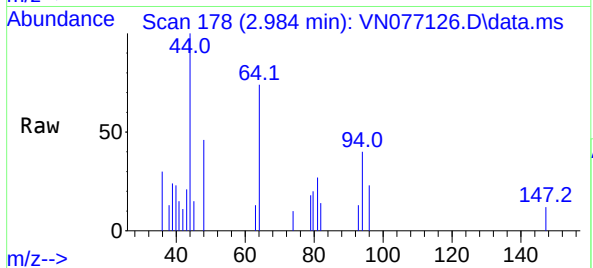




#5  
Bromomethane  
Concen: 0.654 ug/l  
RT: 2.984 min Scan# 11  
Delta R.T. 0.035 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34

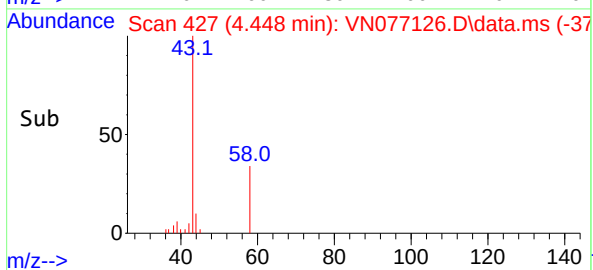
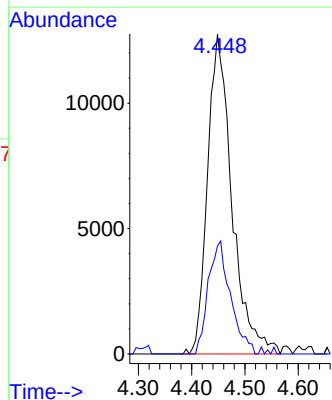
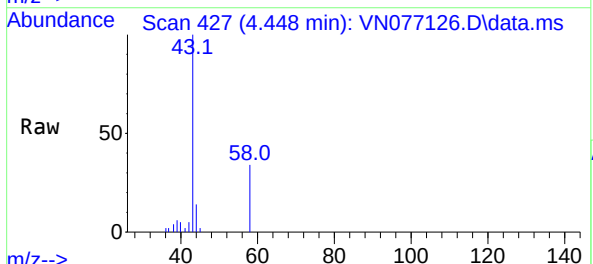
Instrument :  
MSVOA\_N  
ClientSampleId :

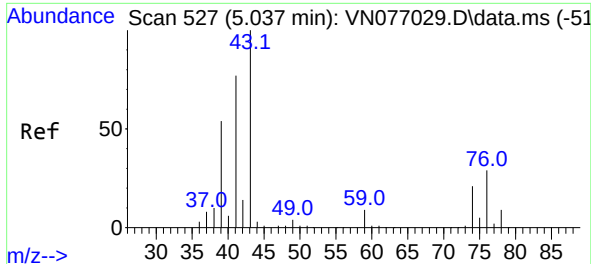
Tgt Ion: 94 Resp: 1741  
Ion Ratio Lower Upper  
94 100  
96 55.7 74.1 111.1#



#16  
Acetone  
Concen: 15.747 ug/l  
RT: 4.448 min Scan# 427  
Delta R.T. 0.011 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34

Tgt Ion: 43 Resp: 40596  
Ion Ratio Lower Upper  
43 100  
58 33.7 25.4 38.0





#18

Methyl Acetate

Concen: 0.384 ug/l

RT: 5.048 min Scan# 51

Delta R.T. 0.011 min

Lab File: VN077126.D

Acq: 23 Mar 2023 04:34

Instrument :

MSVOA\_N

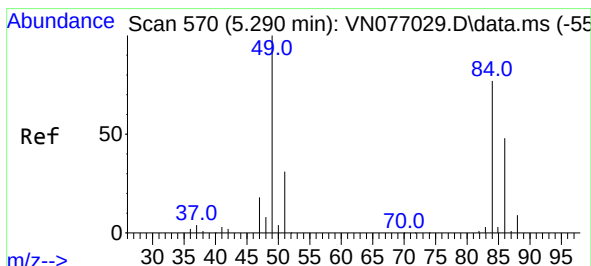
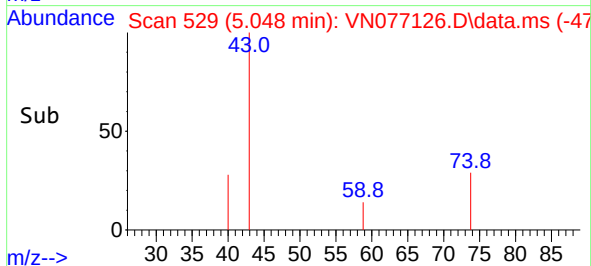
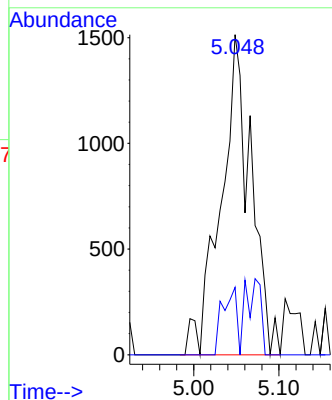
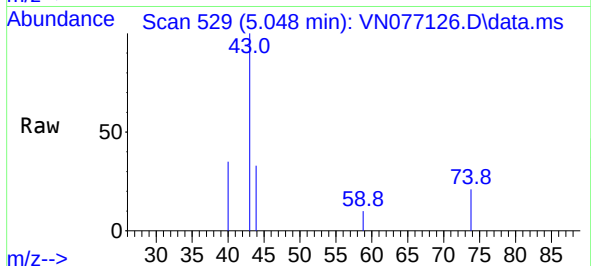
ClientSampleId :

Tgt Ion: 43 Resp: 3734

Ion Ratio Lower Upper

43 100

74 9.8 17.7 26.5#



#20

Methylene Chloride

Concen: 3.235 ug/l

RT: 5.295 min Scan# 571

Delta R.T. 0.005 min

Lab File: VN077126.D

Acq: 23 Mar 2023 04:34

Tgt Ion: 84 Resp: 18100

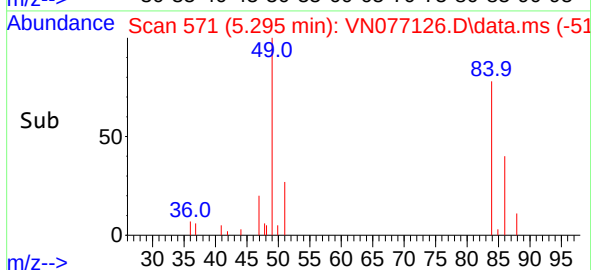
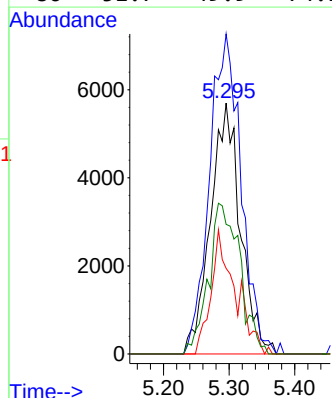
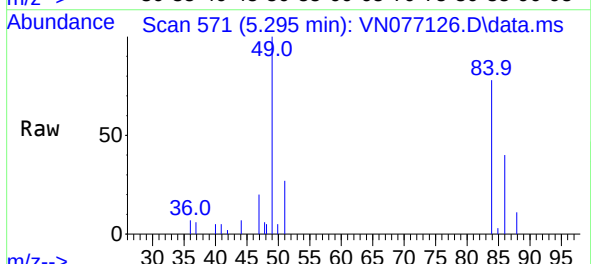
Ion Ratio Lower Upper

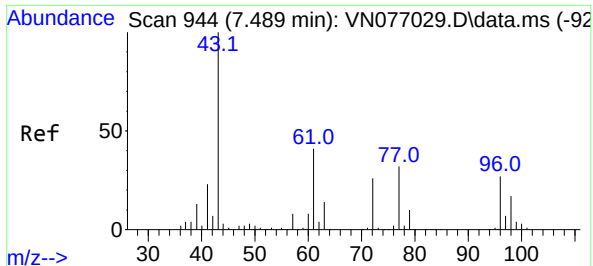
84 100

49 127.6 103.8 155.6

51 34.1 32.3 48.5

86 51.7 49.9 74.9





#25

2-Butanone

Concen: 1.119 ug/l

RT: 7.507 min Scan# 94

Delta R.T. 0.018 min

Lab File: VN077126.D

Acq: 23 Mar 2023 04:34

Instrument :

MSVOA\_N

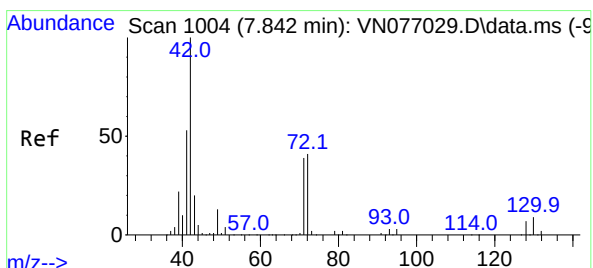
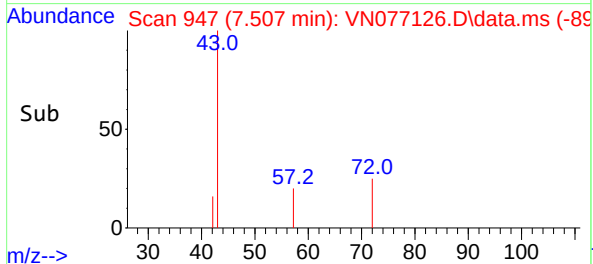
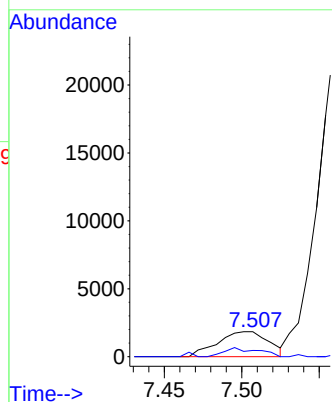
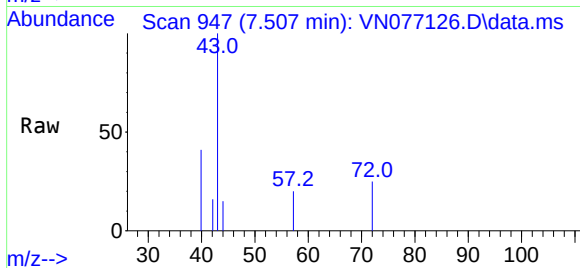
ClientSampleId :

Tgt Ion: 43 Resp: 4221

Ion Ratio Lower Upper

43 100

72 25.3 20.7 31.1



#29

Tetrahydrofuran

Concen: 0.384 ug/l

RT: 7.866 min Scan# 1008

Delta R.T. 0.024 min

Lab File: VN077126.D

Acq: 23 Mar 2023 04:34

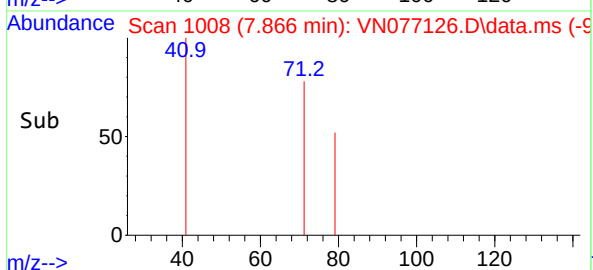
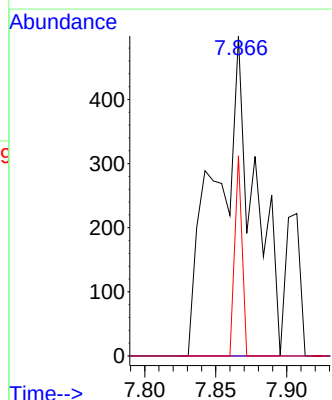
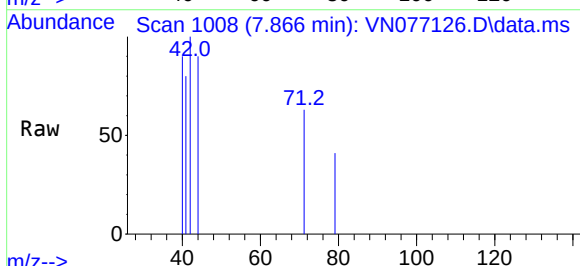
Tgt Ion: 42 Resp: 938

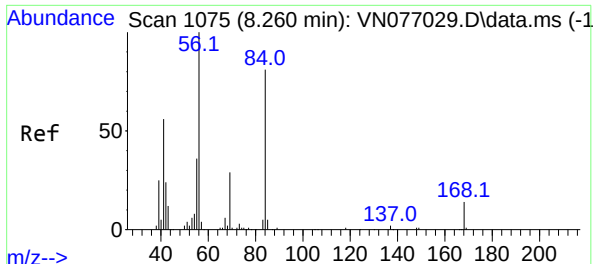
Ion Ratio Lower Upper

42 100

72 0.0 33.2 49.8#

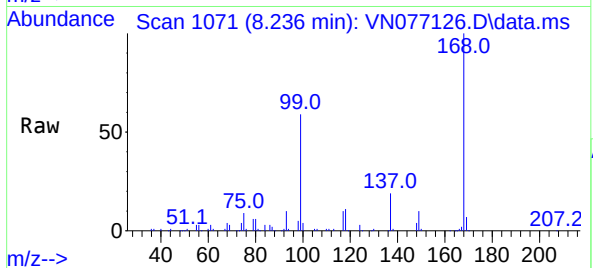
71 11.7 31.0 46.4#



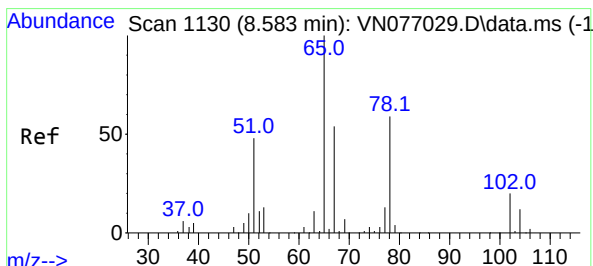
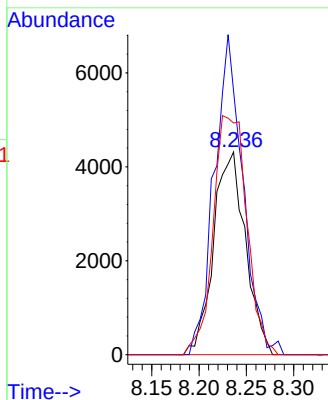
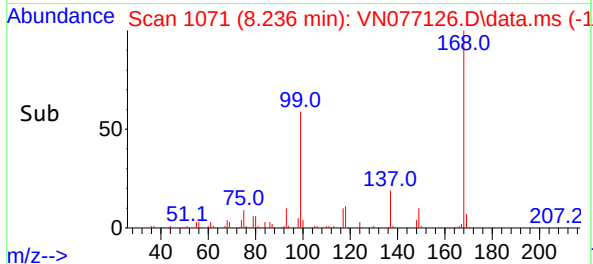


#31  
Cyclohexane  
Concen: 1.071 ug/l  
RT: 8.236 min Scan# 1075  
Delta R.T. -0.024 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34

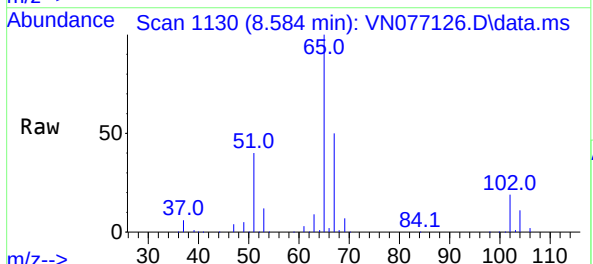
Instrument :  
MSVOA\_N  
ClientSampleId :



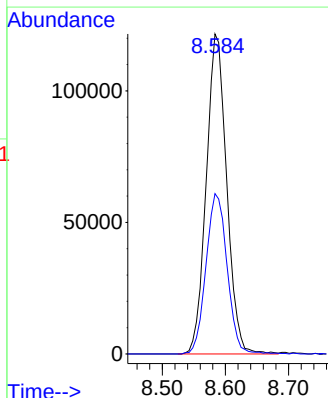
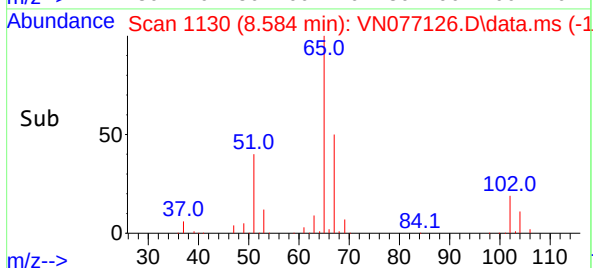
Tgt Ion: 56 Resp: 10140  
Ion Ratio Lower Upper  
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69 130.1 22.8 34.2#  
84 114.3 64.7 97.1#

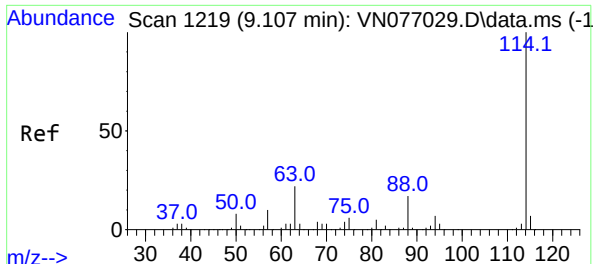


#33  
1,2-Dichloroethane-d4  
Concen: 47.317 ug/l  
RT: 8.584 min Scan# 1130  
Delta R.T. 0.001 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34



Tgt Ion: 65 Resp: 273766  
Ion Ratio Lower Upper  
65 100  
67 51.8 0.0 105.2

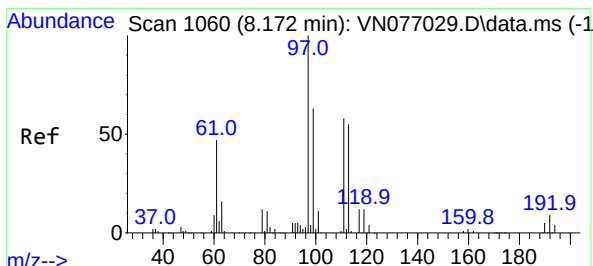
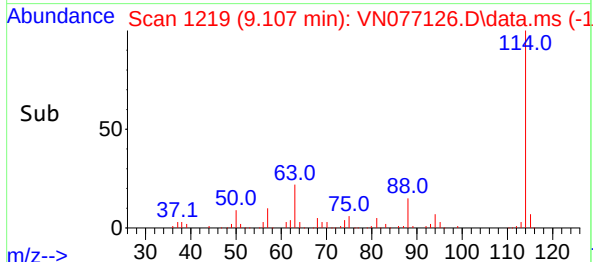
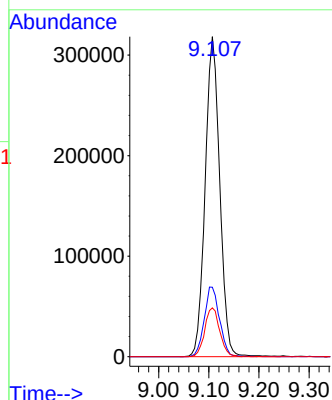
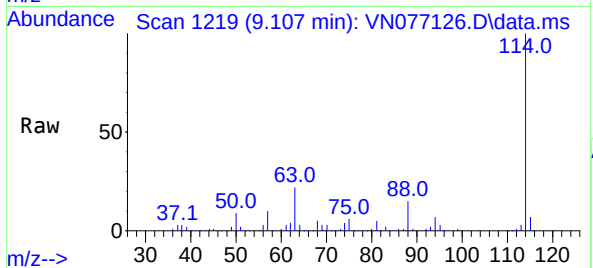




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.107 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34

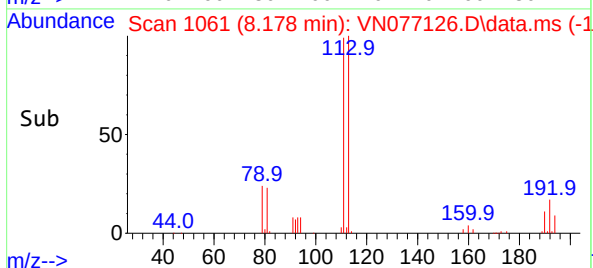
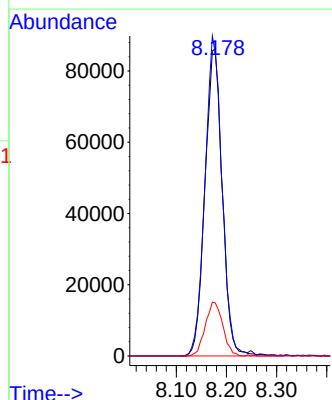
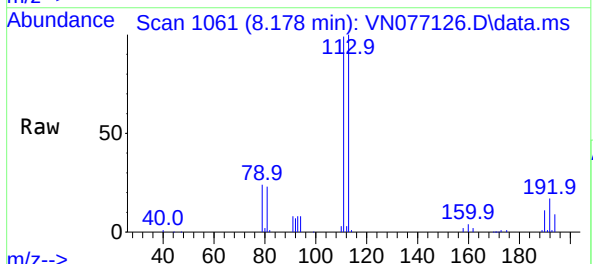
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion:114 Resp: 643019  
Ion Ratio Lower Upper  
114 100  
63 21.7 0.0 44.6  
88 15.3 0.0 33.8

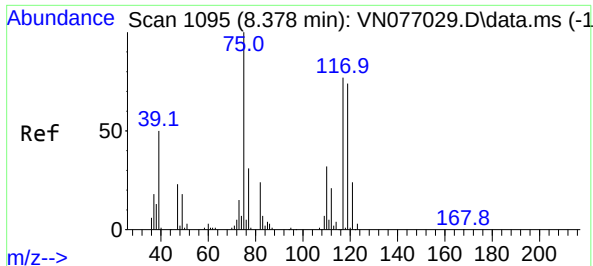


#35  
Dibromofluoromethane  
Concen: 46.030 ug/l  
RT: 8.178 min Scan# 1061  
Delta R.T. 0.006 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34

Tgt Ion:113 Resp: 207279  
Ion Ratio Lower Upper  
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111 102.8 82.2 123.2  
192 17.7 13.0 19.6



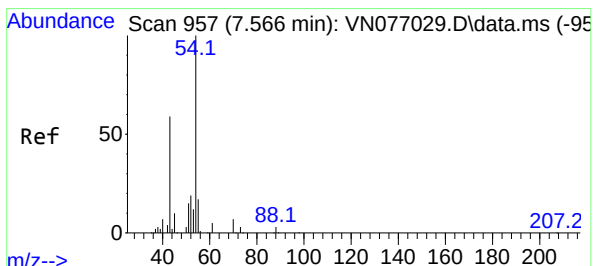
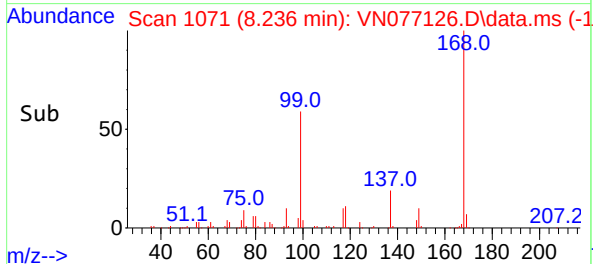
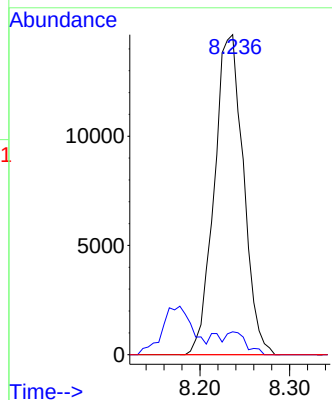
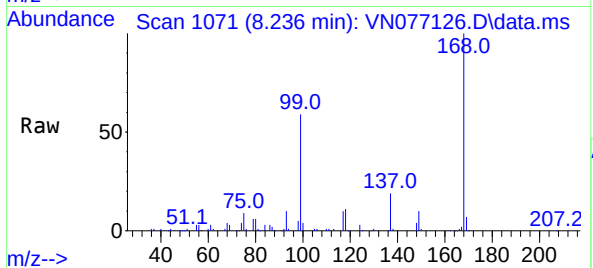




#36  
1,1-Dichloropropene  
Concen: 4.688 ug/l  
RT: 8.236 min Scan# 1095  
Delta R.T. -0.141 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34

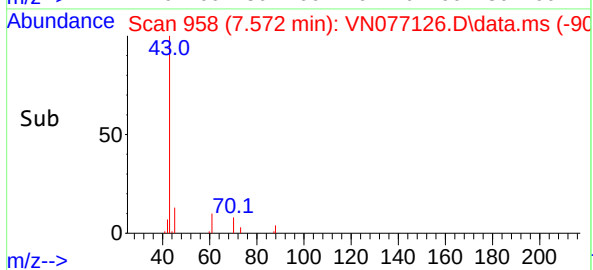
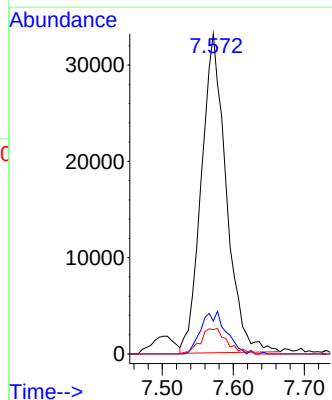
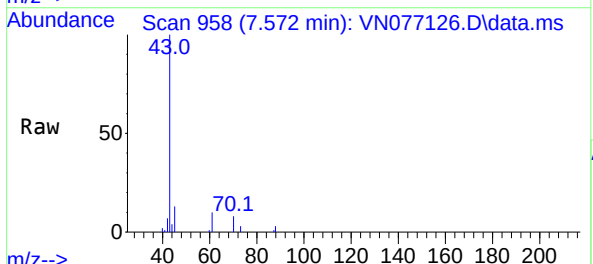
Instrument :  
MSVOA\_N  
ClientSampleId :

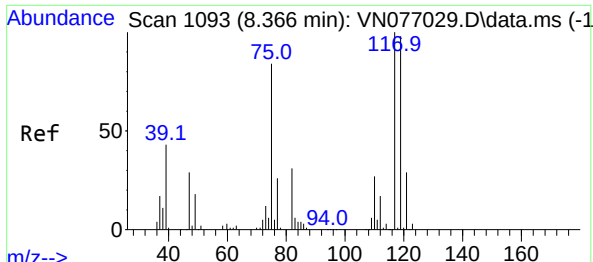
Tgt Ion: 75 Resp: 32974  
Ion Ratio Lower Upper  
75 100  
110 4.9 15.9 47.7#  
77 0.0 24.3 36.5#



#37  
Ethyl Acetate  
Concen: 10.727 ug/l  
RT: 7.572 min Scan# 958  
Delta R.T. 0.006 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34

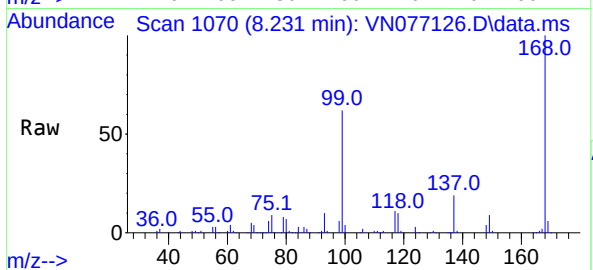
Tgt Ion: 43 Resp: 80724  
Ion Ratio Lower Upper  
43 100  
61 13.4 11.0 16.6  
70 8.6 8.4 12.6



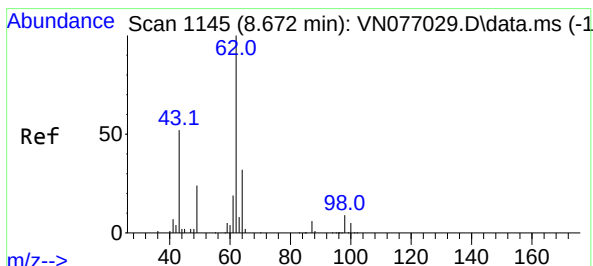
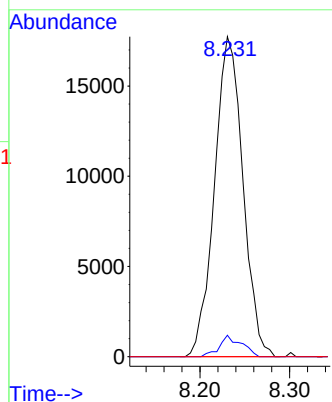
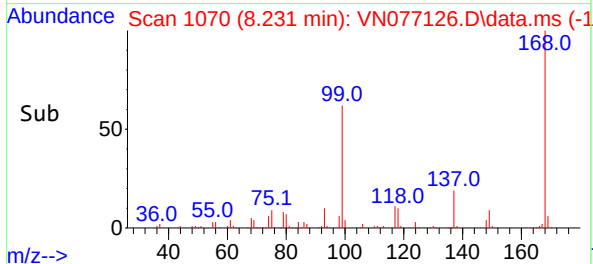


#38  
Carbon Tetrachloride  
Concen: 5.695 ug/l  
RT: 8.231 min Scan# 1150  
Delta R.T. -0.135 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34

Instrument :  
MSVOA\_N  
ClientSampleId :

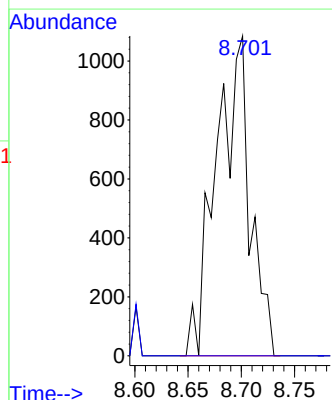
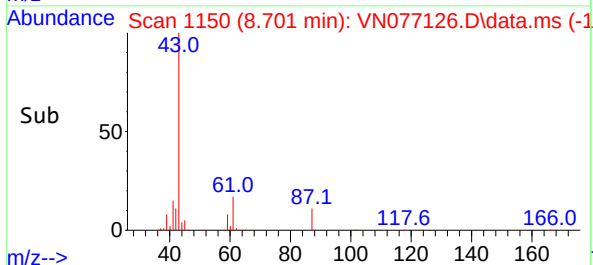
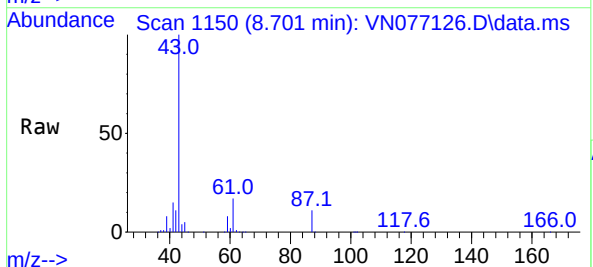


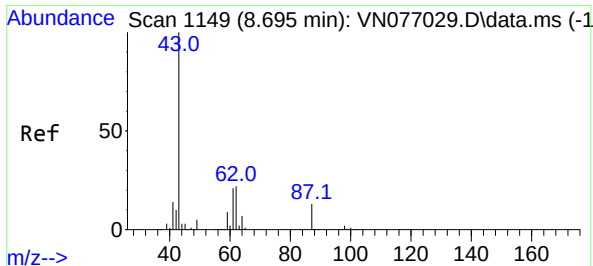
Tgt Ion:117 Resp: 39017  
Ion Ratio Lower Upper  
117 100  
119 6.7 78.2 117.2#  
121 0.0 23.2 34.8#



#42  
1,2-Dichloroethane  
Concen: 0.310 ug/l  
RT: 8.701 min Scan# 1150  
Delta R.T. 0.029 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34

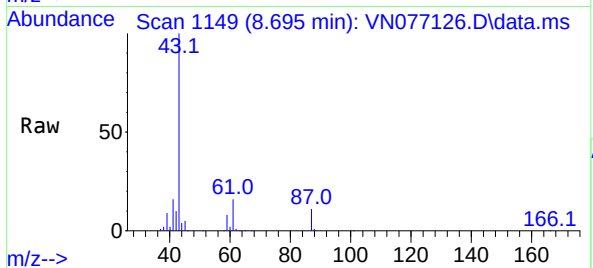
Tgt Ion: 62 Resp: 2392  
Ion Ratio Lower Upper  
62 100  
98 0.0 0.0 17.4



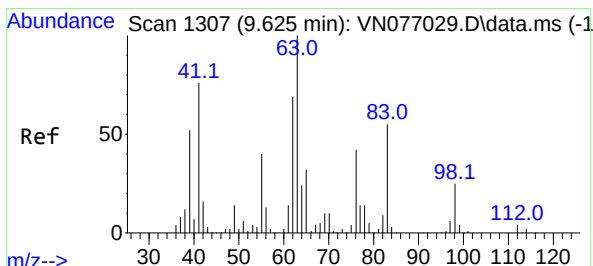
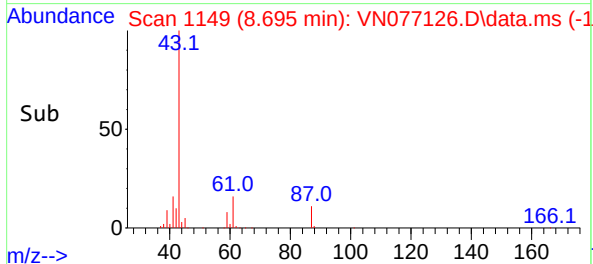
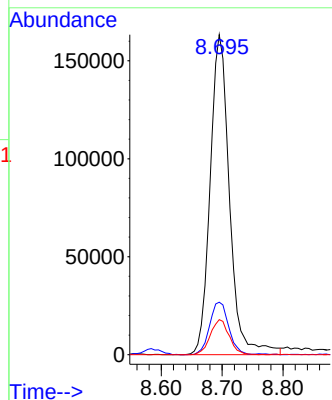


#43  
Isopropyl Acetate  
Concen: 30.712 ug/l  
RT: 8.695 min Scan# 1149  
Delta R.T. 0.000 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34

Instrument :  
MSVOA\_N  
ClientSampleId :

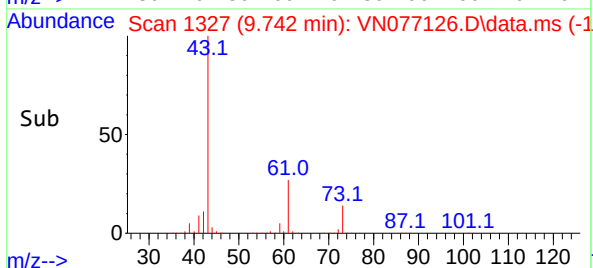
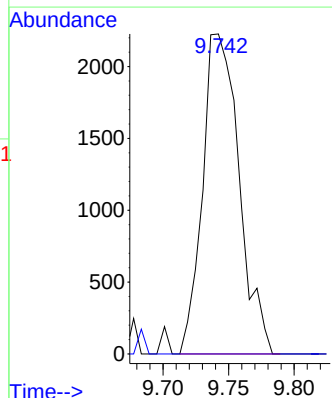
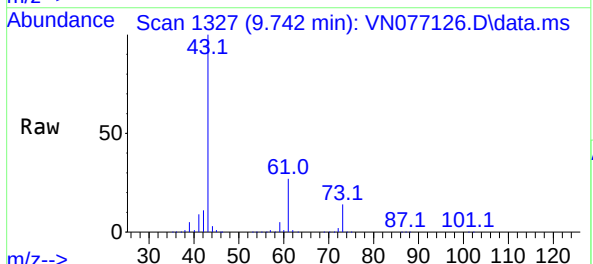


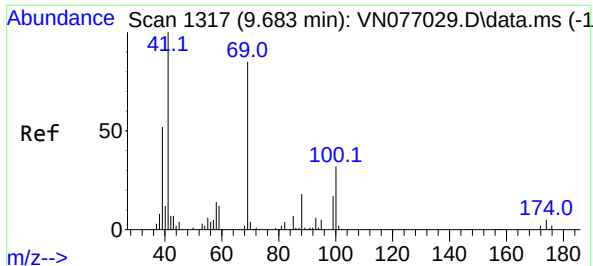
Tgt Ion: 43 Resp: 361049  
Ion Ratio Lower Upper  
43 100  
61 16.1 20.6 30.8#  
87 10.7 10.0 15.0



#45  
1,2-Dichloropropane  
Concen: 0.762 ug/l  
RT: 9.742 min Scan# 1327  
Delta R.T. 0.118 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34

Tgt Ion: 63 Resp: 4316  
Ion Ratio Lower Upper  
63 100  
65 0.0 25.5 38.3#





#48

Methyl methacrylate

Concen: 1.719 ug/l

RT: 9.666 min Scan# 11

Delta R.T. -0.018 min

Lab File: VN077126.D

Acq: 23 Mar 2023 04:34

Instrument :

MSVOA\_N

ClientSampleId :

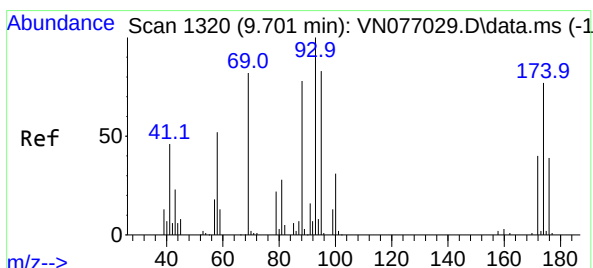
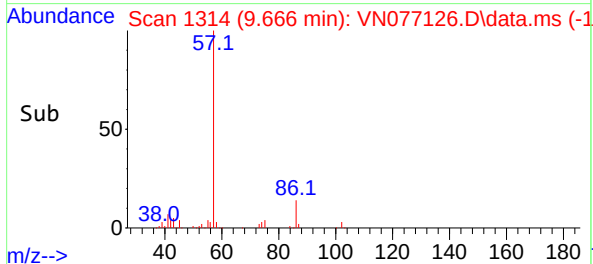
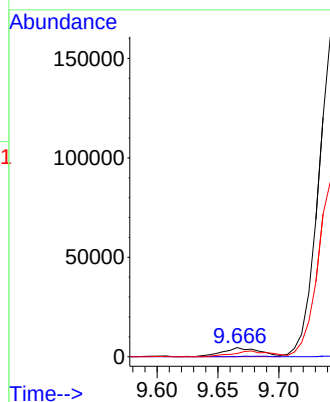
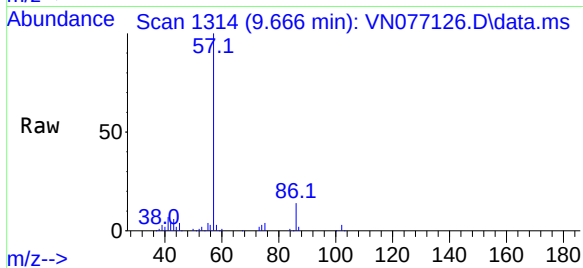
Tgt Ion: 41 Resp: 9659

Ion Ratio Lower Upper

41 100

69 0.0 64.3 96.5#

39 0.0 43.2 64.8#



#49

1,4-Dioxane

Concen: 0.625 ug/l

RT: 9.672 min Scan# 1315

Delta R.T. -0.029 min

Lab File: VN077126.D

Acq: 23 Mar 2023 04:34

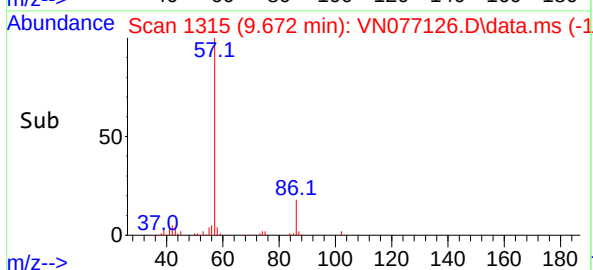
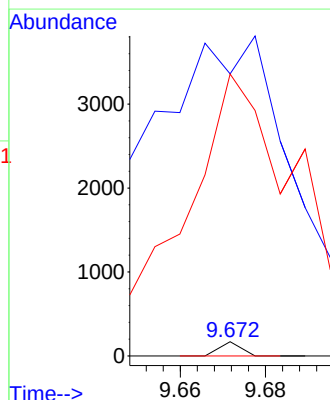
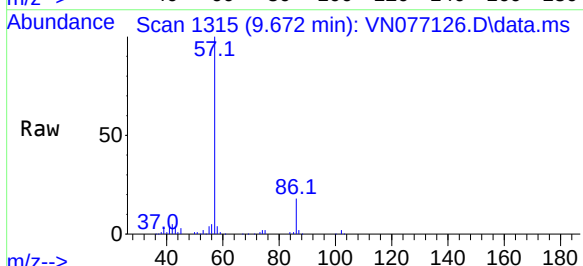
Tgt Ion: 88 Resp: 60

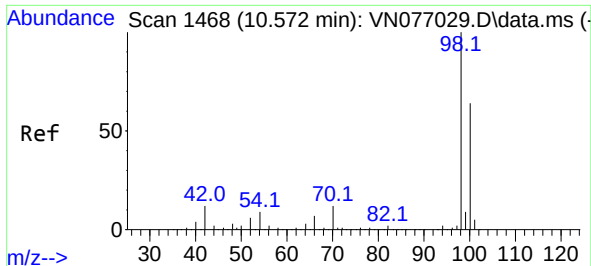
Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.2#

58 11206.7 60.8 91.2#

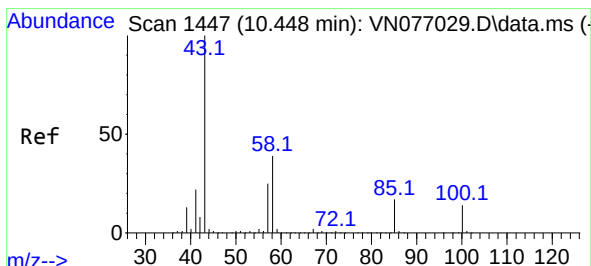
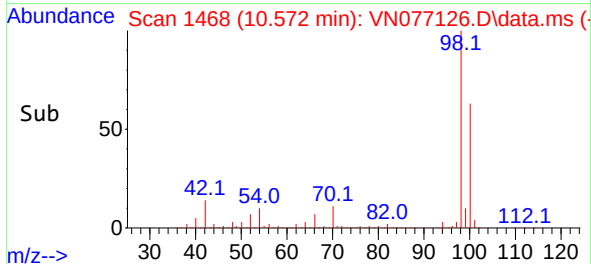
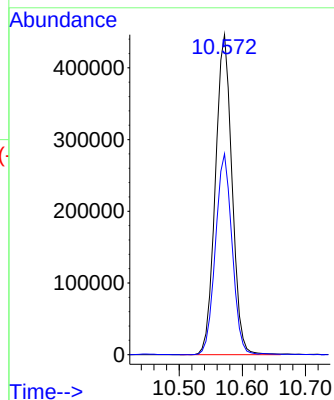
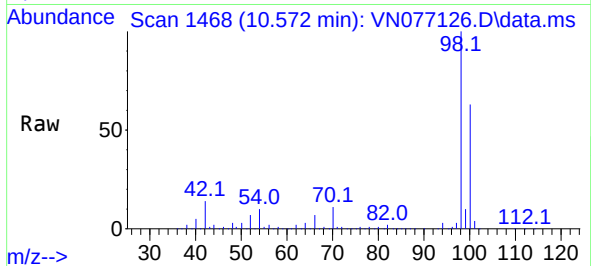




#50  
Toluene-d8  
Concen: 50.758 ug/l  
RT: 10.572 min Scan# 1468  
Delta R.T. 0.000 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34

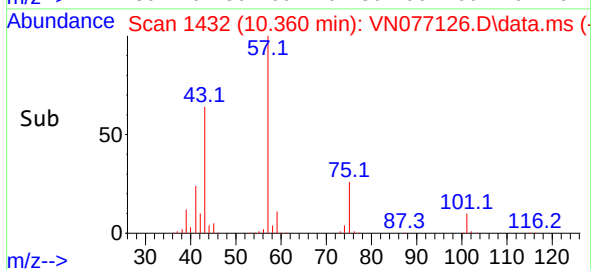
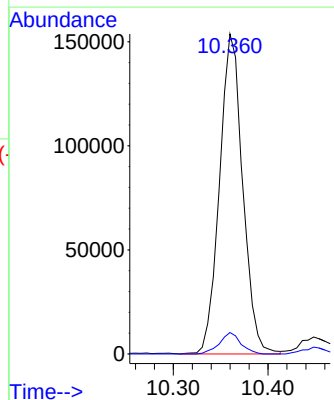
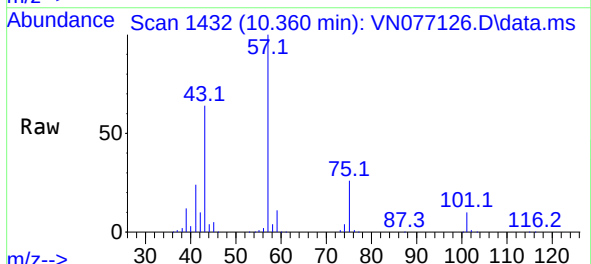
Instrument :  
MSVOA\_N  
ClientSampleId :

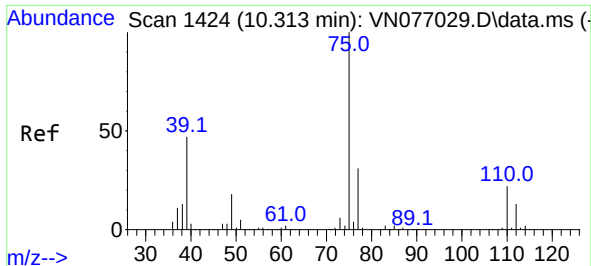
Tgt Ion: 98 Resp: 816480  
Ion Ratio Lower Upper  
98 100  
100 62.7 51.6 77.4



#51  
4-Methyl-2-Pentanone  
Concen: 35.785 ug/l  
RT: 10.360 min Scan# 1432  
Delta R.T. -0.088 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34

Tgt Ion: 43 Resp: 261972  
Ion Ratio Lower Upper  
43 100  
58 6.1 31.1 46.7#

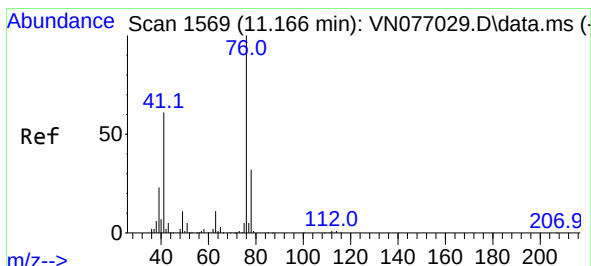
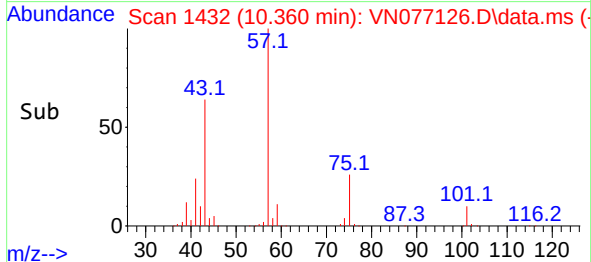
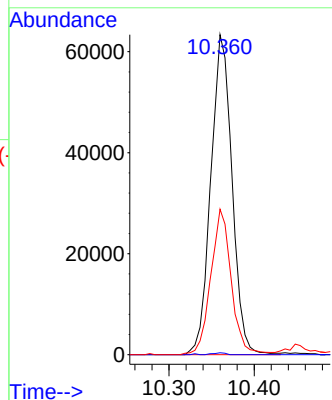
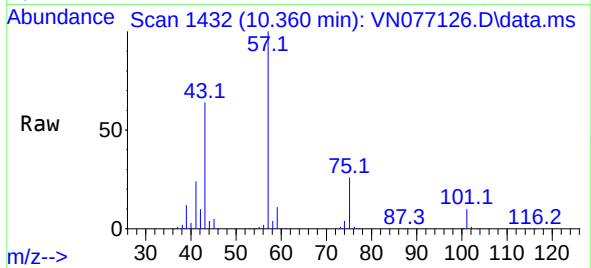




#54  
cis-1,3-Dichloropropene  
Concen: 13.259 ug/l  
RT: 10.360 min Scan# 14  
Delta R.T. 0.047 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34

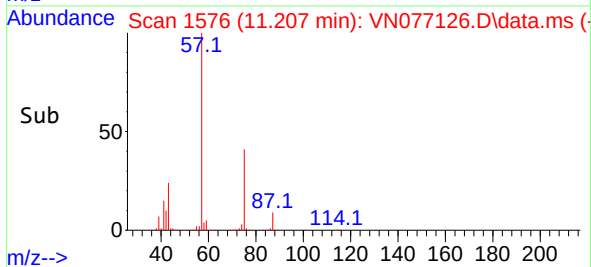
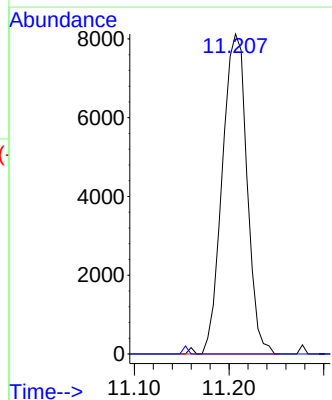
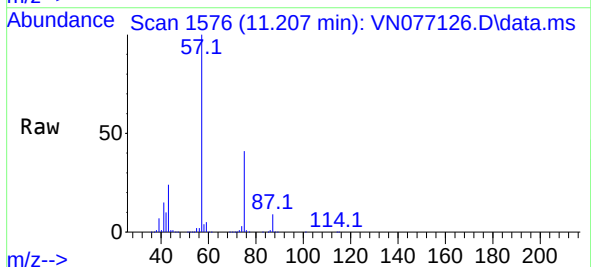
Instrument :  
MSVOA\_N  
ClientSampleId :

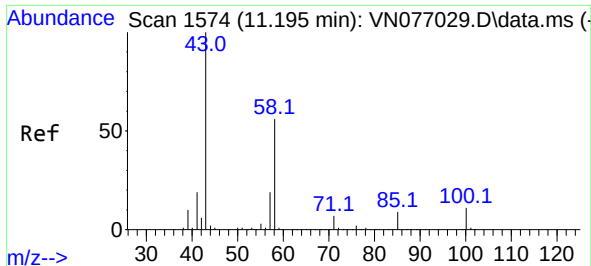
Tgt Ion: 75 Resp: 109876  
Ion Ratio Lower Upper  
75 100  
77 0.6 24.5 36.7#  
39 45.4 37.8 56.6



#57  
1,3-Dichloropropane  
Concen: 1.605 ug/l  
RT: 11.207 min Scan# 1576  
Delta R.T. 0.041 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34

Tgt Ion: 76 Resp: 14756  
Ion Ratio Lower Upper  
76 100  
78 0.0 25.3 37.9#

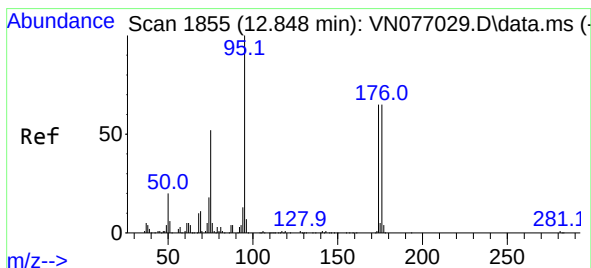
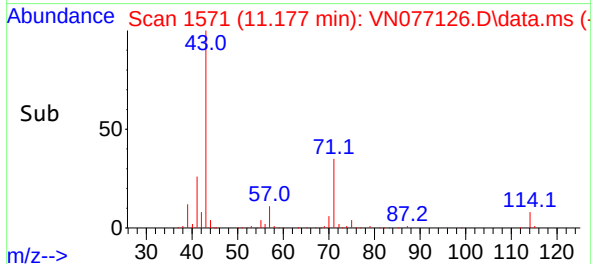
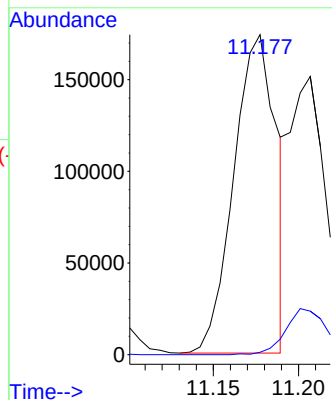
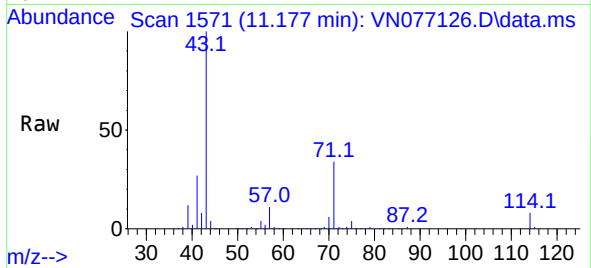




#59  
2-Hexanone  
Concen: 56.771 ug/l  
RT: 11.177 min Scan# 11177  
Delta R.T. -0.018 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34

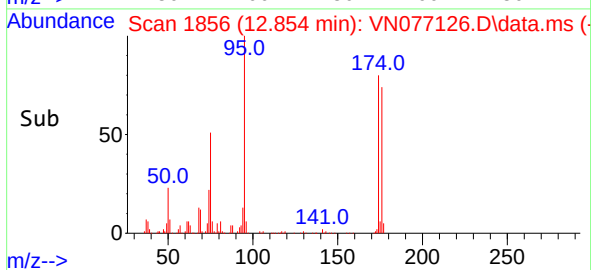
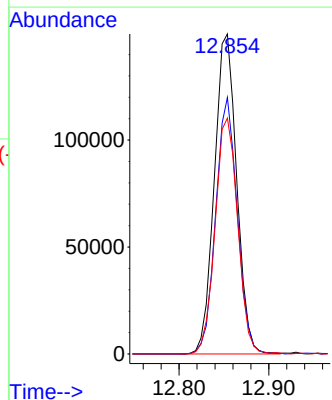
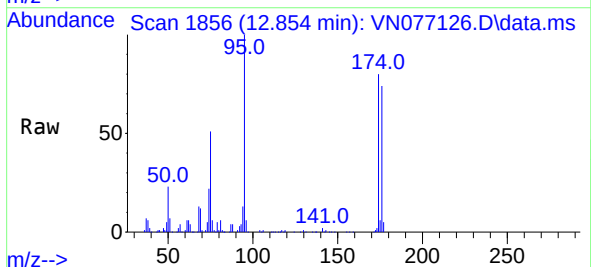
Instrument :  
MSVOA\_N  
ClientSampleId :

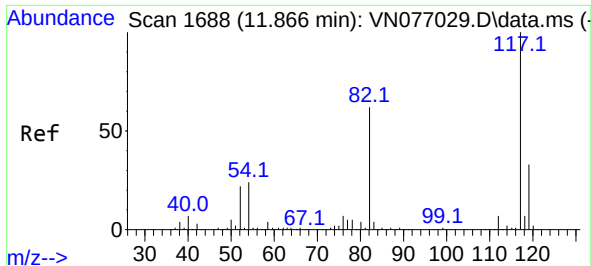
Tgt Ion: 43 Resp: 301443  
Ion Ratio Lower Upper  
43 100  
58 0.0 27.7 83.1#



#62  
4-Bromofluorobenzene  
Concen: 45.427 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. 0.006 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34

Tgt Ion: 95 Resp: 258216  
Ion Ratio Lower Upper  
95 100  
174 77.6 0.0 136.6  
176 74.5 0.0 130.0

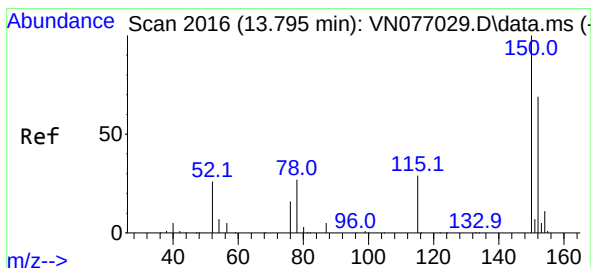
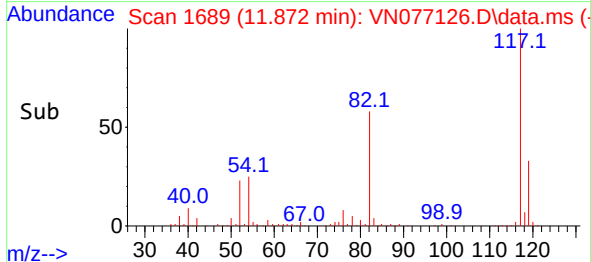
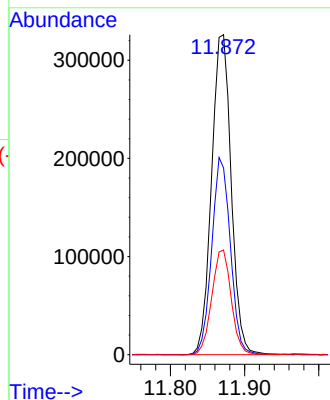
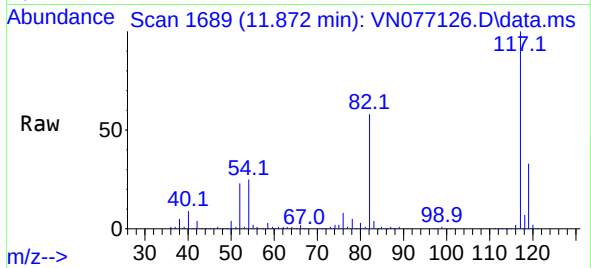




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.872 min Scan# 117  
Delta R.T. 0.006 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34

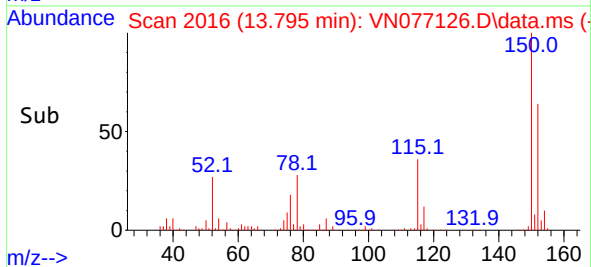
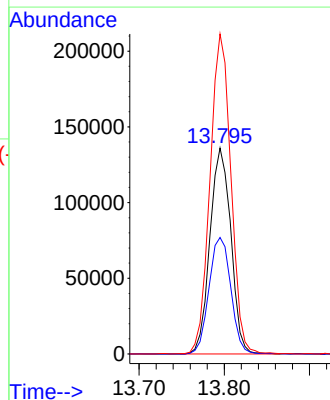
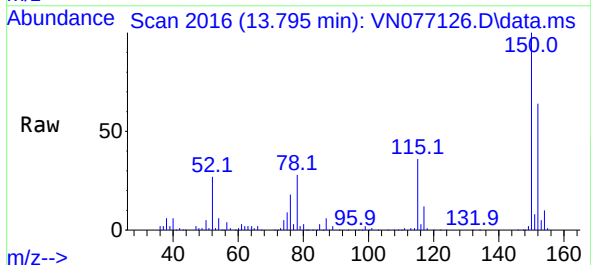
Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion:117 Resp: 600668  
Ion Ratio Lower Upper  
117 100  
82 58.4 49.4 74.0  
119 32.7 26.5 39.7

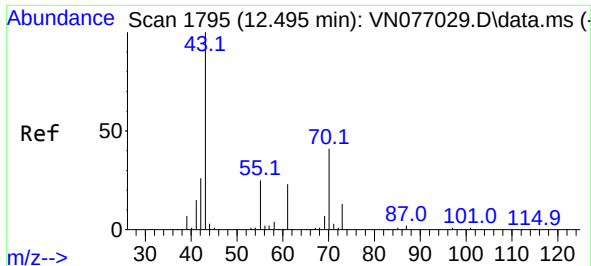


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.795 min Scan# 2016  
Delta R.T. -0.000 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34

Tgt Ion:152 Resp: 232020  
Ion Ratio Lower Upper  
152 100  
115 59.1 31.9 95.7  
150 155.6 0.0 348.0

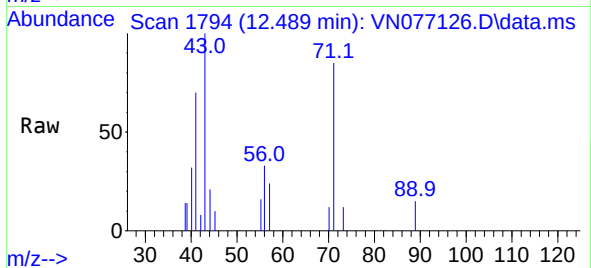




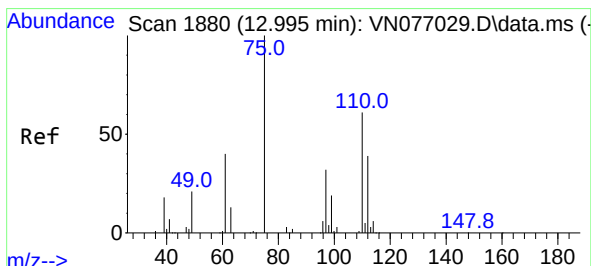
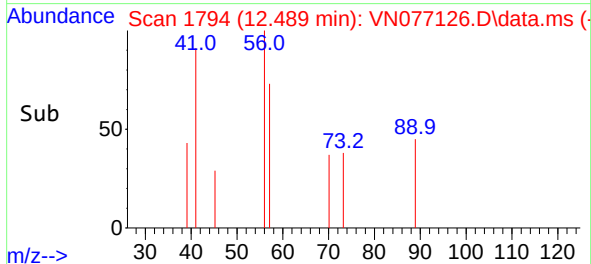
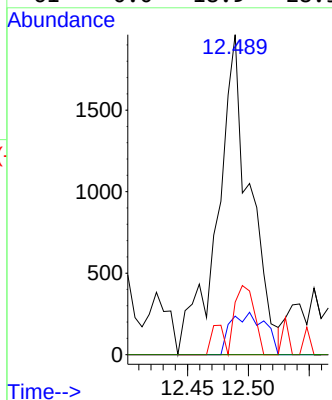


#74  
N-amy1 acetate  
Concen: 0.403 ug/l  
RT: 12.489 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34

Instrument :  
MSVOA\_N  
ClientSampleId :

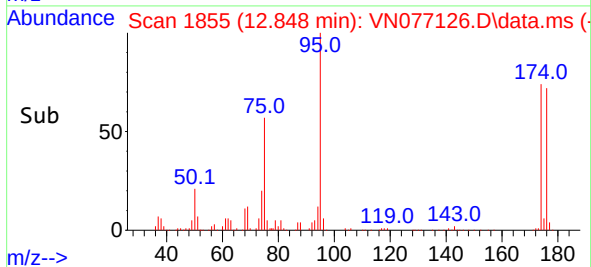
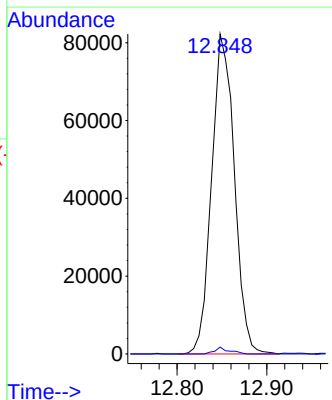
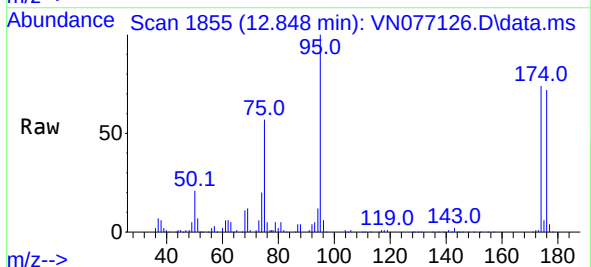


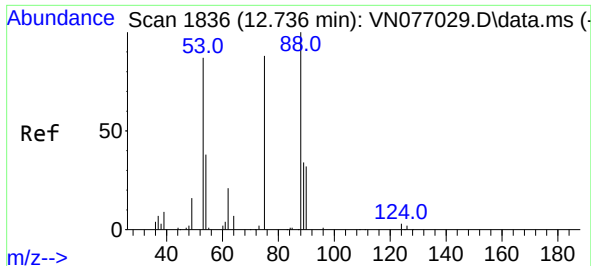
Tgt Ion: 43 Resp: 3624  
Ion Ratio Lower Upper  
43 100  
70 13.9 33.6 50.4#  
55 16.5 20.3 30.5#  
61 0.0 18.9 28.3#



#76  
1,2,3-Trichloropropane  
Concen: 24.065 ug/l  
RT: 12.848 min Scan# 1855  
Delta R.T. -0.147 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34

Tgt Ion: 75 Resp: 144428  
Ion Ratio Lower Upper  
75 100  
77 1.3 107.3 322.0#

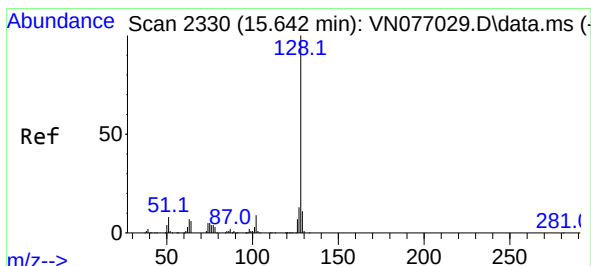
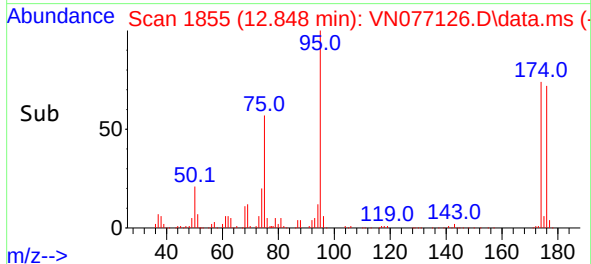
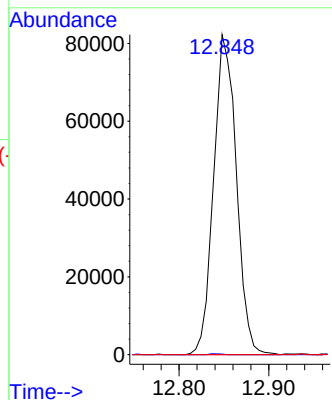
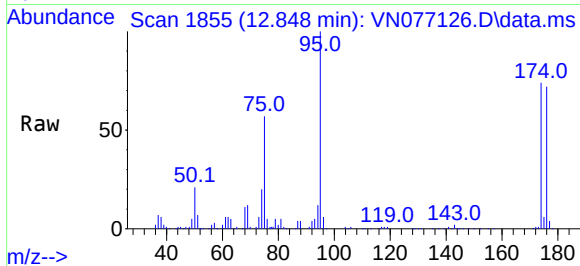




#81  
trans-1,4-Dichloro-2-butene  
Concen: 66.241 ug/l  
RT: 12.848 min Scan# 1836  
Delta R.T. 0.112 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34

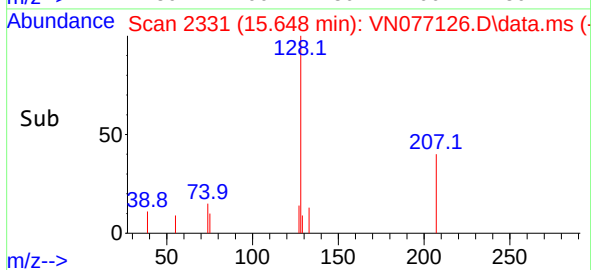
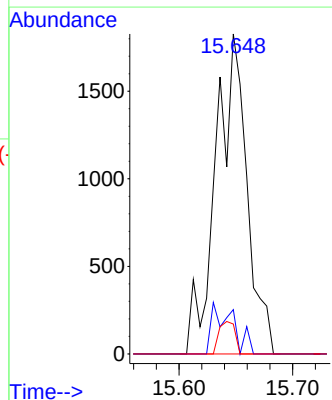
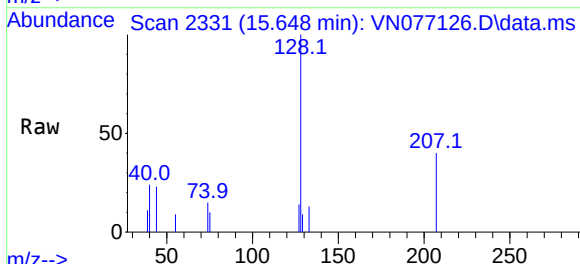
Instrument :  
MSVOA\_N  
ClientSampleId :

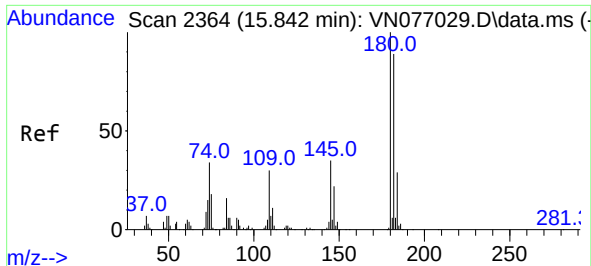
Tgt Ion: 75 Resp: 144428  
Ion Ratio Lower Upper  
75 100  
53 0.2 80.8 121.2#  
89 0.0 34.2 51.4#



#95  
Naphthalene  
Concen: 2.129 ug/l  
RT: 15.648 min Scan# 2331  
Delta R.T. 0.006 min  
Lab File: VN077126.D  
Acq: 23 Mar 2023 04:34

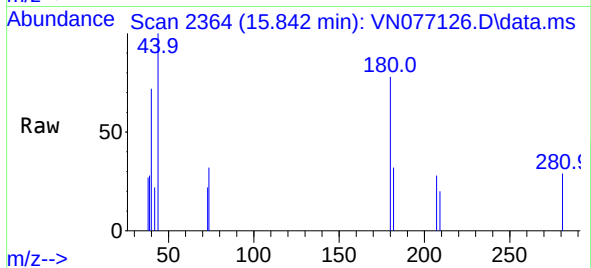
Tgt Ion:128 Resp: 3477  
Ion Ratio Lower Upper  
128 100  
127 10.8 10.0 15.0  
129 5.2 8.6 13.0#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.201 ug/l  
 RT: 15.842 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VN077126.D  
 Acq: 23 Mar 2023 04:34

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion:180 Resp: 801  
 Ion Ratio Lower Upper  
 180 100  
 182 44.1 47.4 142.2#  
 145 16.7 17.9 53.8#

