

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022522\  
 Data File : VN071070.D  
 Acq On : 25 Feb 2022 13:25  
 Operator : JC\MD  
 Sample : VN0225WBL01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0225WBL01

Quant Time: Feb 26 03:42:05 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021522W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 21 07:57:15 2022  
 Response via : Initial Calibration

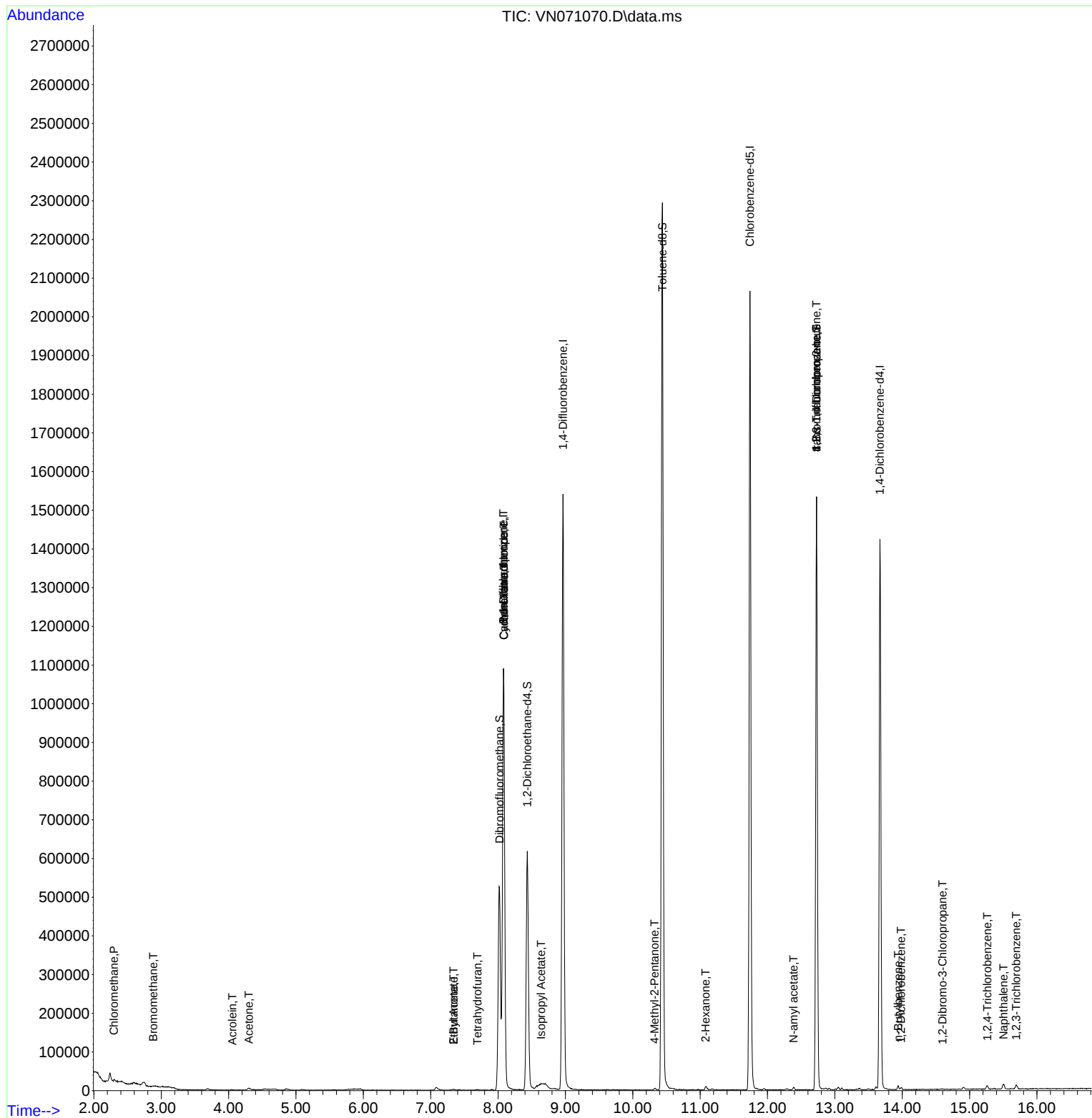
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 8.081          | 168  | 847284              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.963          | 114  | 1359304             | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.739         | 117  | 1194907             | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.668         | 152  | 407175              | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.433          | 65   | 509635              | 52.655 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 105.320% |        |        |          |
| 35) Dibromofluoromethane      | 8.022          | 113  | 397026              | 49.106 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 98.220%  |        |        |          |
| 50) Toluene-d8                | 10.439         | 98   | 1630060             | 50.203 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 100.400% |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.727         | 95   | 541621              | 46.668 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 93.340%  |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        |          |
|                               |                |      |                     |        | Qvalue |          |
| 3) Chloromethane              | 2.299          | 50   | 2756                | 0.249  | ug/l   | 90       |
| 5) Bromomethane               | 2.881          | 94   | 2062                | 0.328  | ug/l # | 79       |
| 13) Acrolein                  | 4.057          | 56   | 897                 | 0.569  | ug/l   | 98       |
| 16) Acetone                   | 4.298          | 43   | 4750                | 0.891  | ug/l # | 79       |
| 25) 2-Butanone                | 7.339          | 43   | 4325                | 0.610  | ug/l   | 91       |
| 29) Tetrahydrofuran           | 7.692          | 42   | 1578                | 0.344  | ug/l # | 50       |
| 31) Cyclohexane               | 8.086          | 56   | 16906               | 1.010  | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.081          | 75   | 64775               | 4.890  | ug/l # | 49       |
| 37) Ethyl Acetate             | 7.339          | 43   | 4325                | 0.304  | ug/l # | 74       |
| 38) Carbon Tetrachloride      | 8.086          | 117  | 82960               | 6.356  | ug/l # | 16       |
| 43) Isopropyl Acetate         | 8.639          | 43   | 23986               | 1.071  | ug/l # | 55       |
| 51) 4-Methyl-2-Pentanone      | 10.322         | 43   | 3846                | 0.282  | ug/l   | 95       |
| 59) 2-Hexanone                | 11.080         | 43   | 8547                | 0.912  | ug/l   | 93       |
| 74) N-amyl acetate            | 12.386         | 43   | 4344                | 0.415  | ug/l   | 93       |
| 76) 1,2,3-Trichloropropane    | 12.727         | 75   | 273507              | 28.529 | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.727         | 75   | 273507              | 92.447 | ug/l # | 5        |
| 89) n-Butylbenzene            | 13.939         | 91   | 5275                | 0.237  | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene       | 13.980         | 146  | 2839                | 0.213  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.598         | 75   | 415                 | 0.246  | ug/l # | 58       |
| 93) 1,2,4-Trichlorobenzene    | 15.262         | 180  | 3568                | 2.456  | ug/l   | 93       |
| 95) Naphthalene               | 15.504         | 128  | 13572               | 5.661  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.692         | 180  | 4484                | 3.132  | ug/l   | 90       |
| -----                         |                |      |                     |        |        |          |

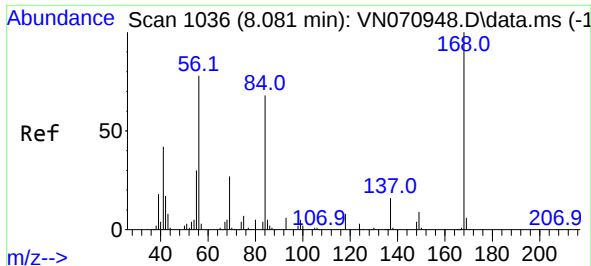
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022522\  
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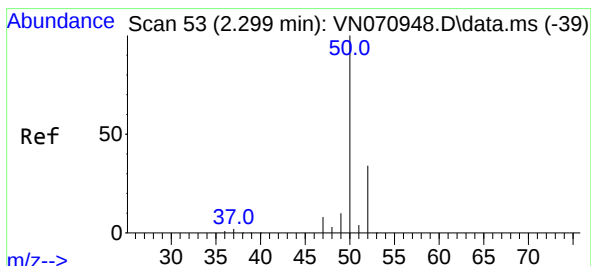
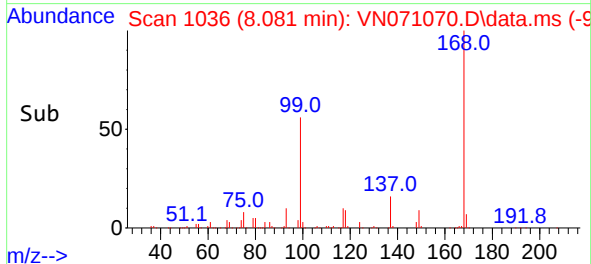
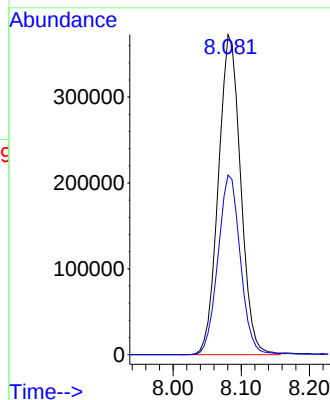
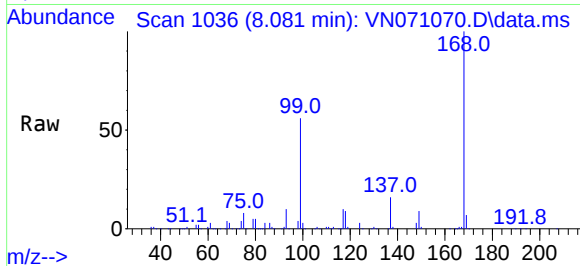




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.081 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

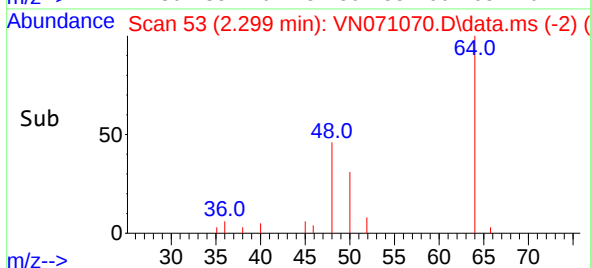
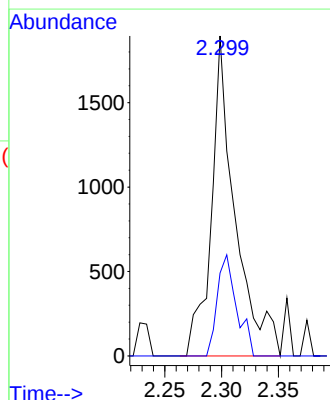
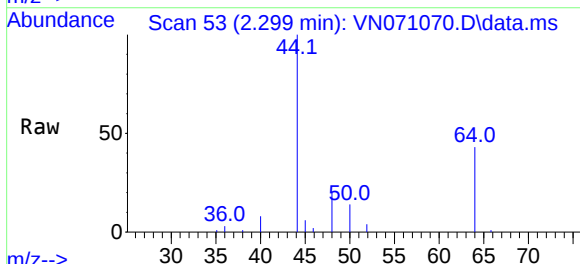
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0225WBL01

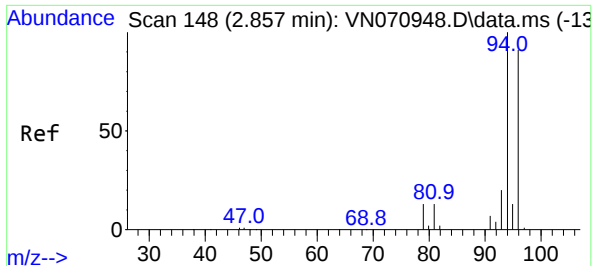
Tgt Ion:168 Resp: 847284  
Ion Ratio Lower Upper  
168 100  
99 56.2 41.3 61.9



#3  
Chloromethane  
Concen: 0.249 ug/l  
RT: 2.299 min Scan# 53  
Delta R.T. -0.000 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

Tgt Ion: 50 Resp: 2756  
Ion Ratio Lower Upper  
50 100  
52 25.9 25.4 38.0

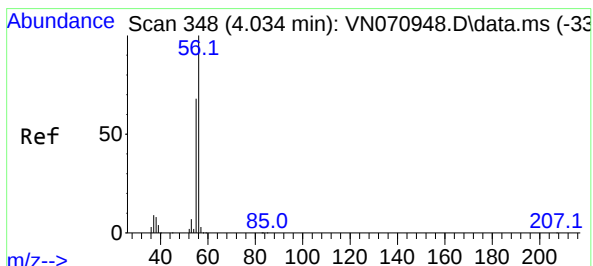
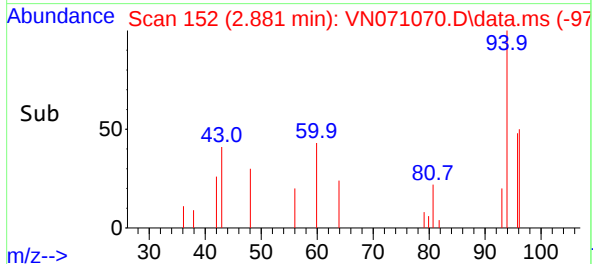
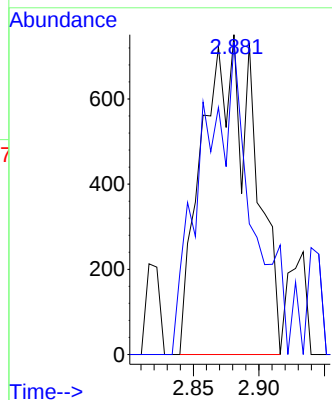
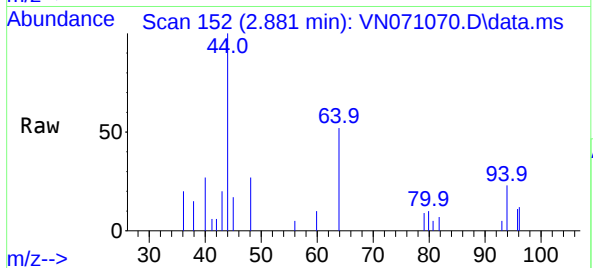




#5  
Bromomethane  
Concen: 0.328 ug/l  
RT: 2.881 min Scan# 11  
Delta R.T. 0.024 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

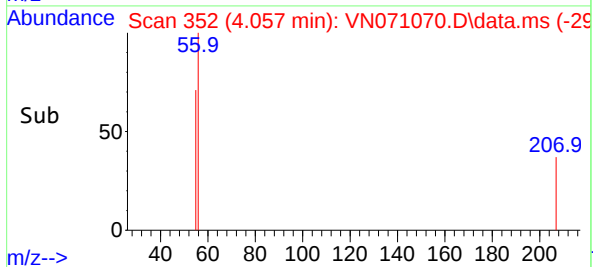
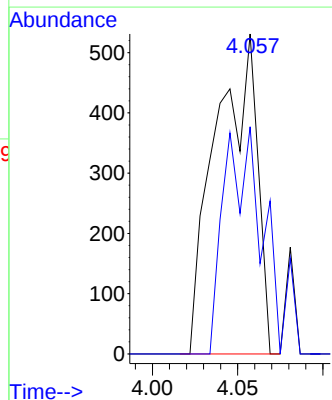
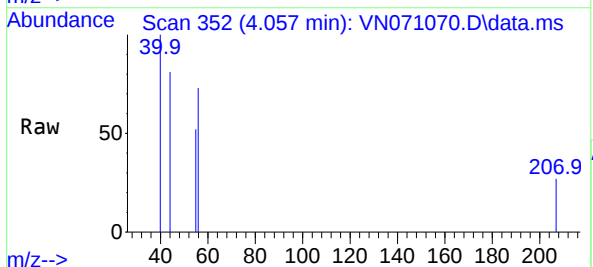
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0225WBL01

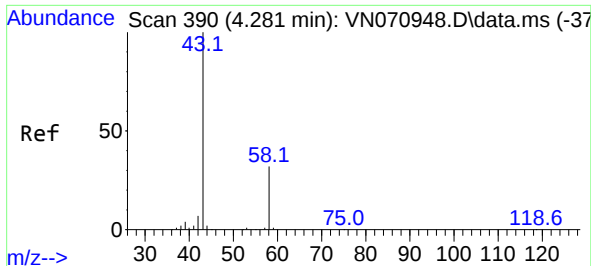
Tgt Ion: 94 Resp: 2062  
Ion Ratio Lower Upper  
94 100  
96 72.2 73.8 110.8#



#13  
Acrolein  
Concen: 0.569 ug/l  
RT: 4.057 min Scan# 352  
Delta R.T. 0.023 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

Tgt Ion: 56 Resp: 897  
Ion Ratio Lower Upper  
56 100  
55 69.3 56.6 85.0

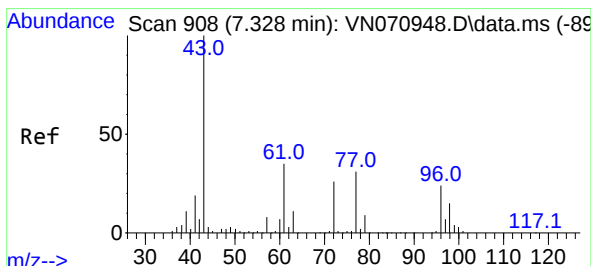
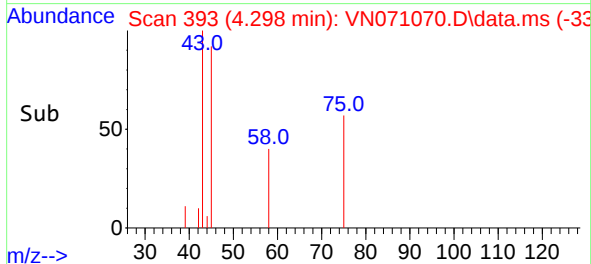
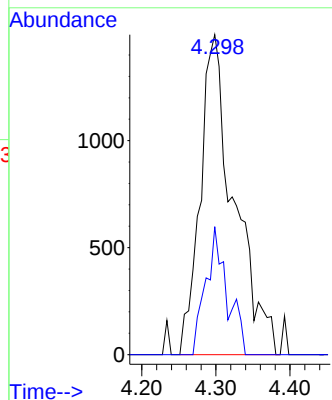
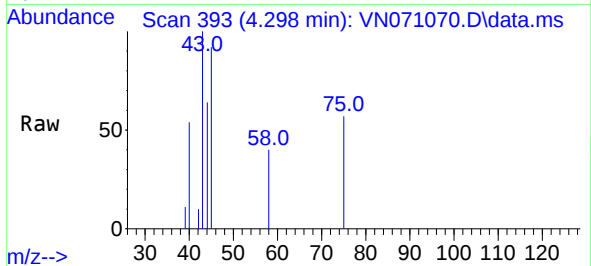




#16  
Acetone  
Concen: 0.891 ug/l  
RT: 4.298 min Scan# 391  
Delta R.T. 0.018 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

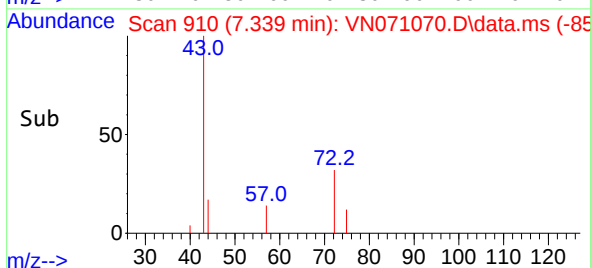
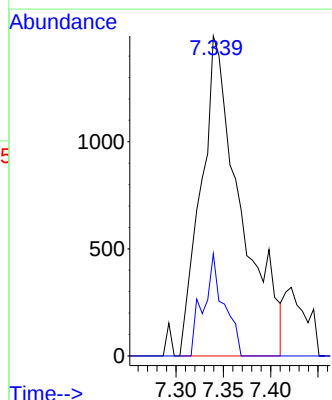
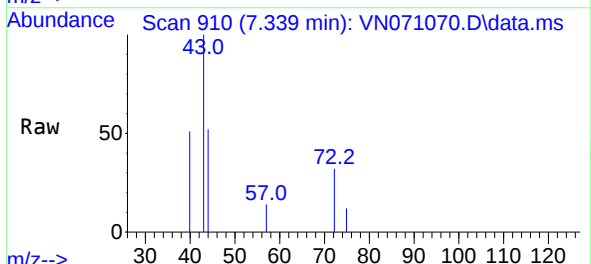
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0225WBL01

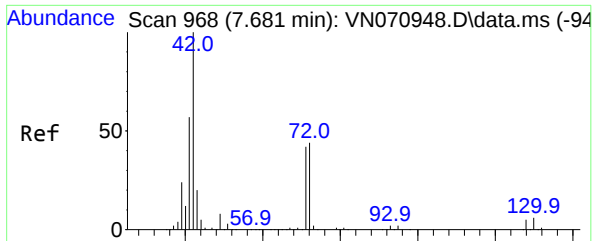
Tgt Ion: 43 Resp: 4750  
Ion Ratio Lower Upper  
43 100  
58 40.0 23.1 34.7#



#25  
2-Butanone  
Concen: 0.610 ug/l  
RT: 7.339 min Scan# 910  
Delta R.T. 0.012 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

Tgt Ion: 43 Resp: 4325  
Ion Ratio Lower Upper  
43 100  
72 31.9 21.7 32.5

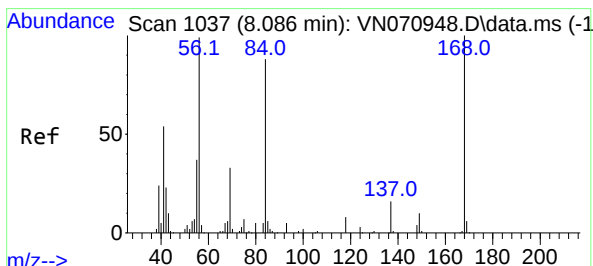
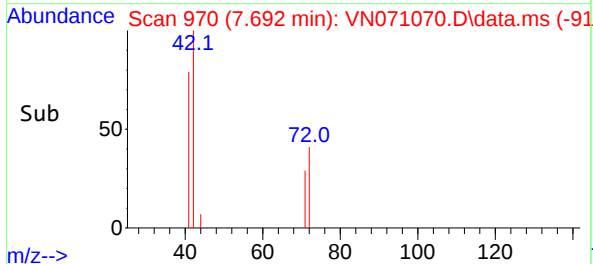
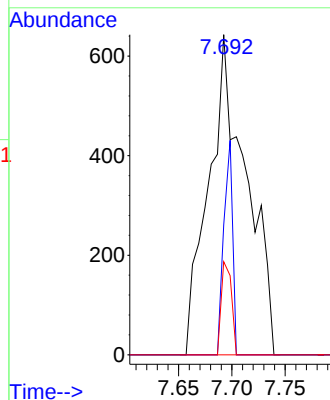
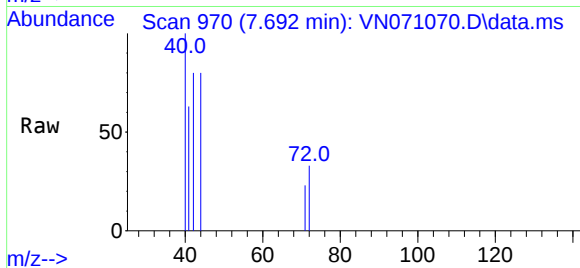




#29  
Tetrahydrofuran  
Concen: 0.344 ug/l  
RT: 7.692 min Scan# 91  
Delta R.T. 0.012 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

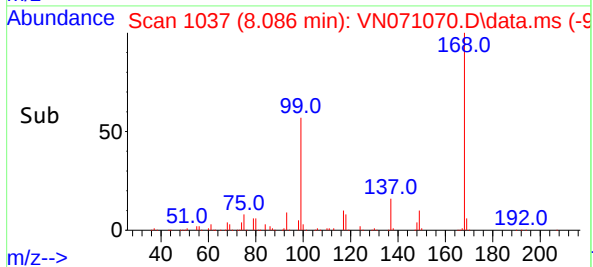
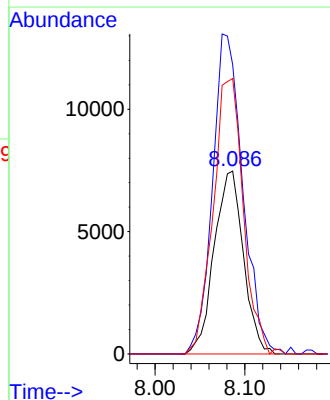
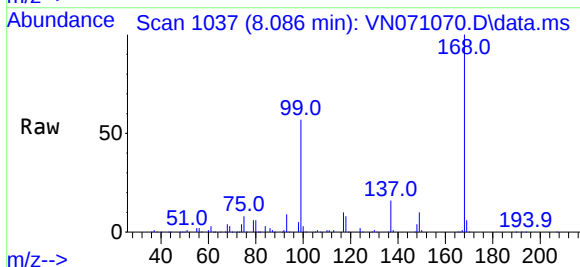
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ClientSampleId :  
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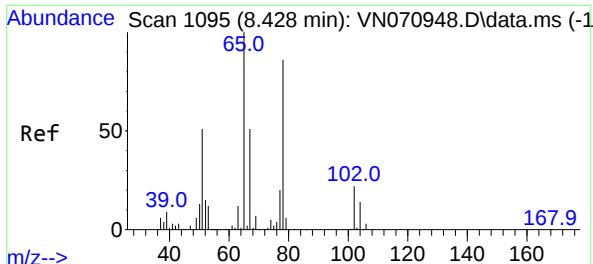
Tgt Ion: 42 Resp: 1578  
Ion Ratio Lower Upper  
42 100  
72 15.5 36.3 54.5#  
71 7.7 34.7 52.1#



#31  
Cyclohexane  
Concen: 1.010 ug/l  
RT: 8.086 min Scan# 1037  
Delta R.T. -0.000 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

Tgt Ion: 56 Resp: 16906  
Ion Ratio Lower Upper  
56 100  
69 158.2 27.1 40.7#  
84 150.6 73.4 110.0#





#33

1,2-Dichloroethane-d4

Concen: 52.655 ug/l

RT: 8.433 min Scan# 1095

Delta R.T. 0.006 min

Lab File: VN071070.D

Acq: 25 Feb 2022 13:25

Instrument :

MSVOA\_N

ClientSampleId :

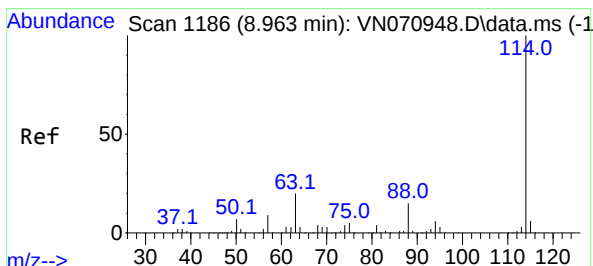
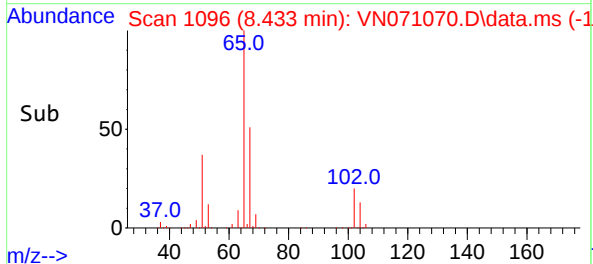
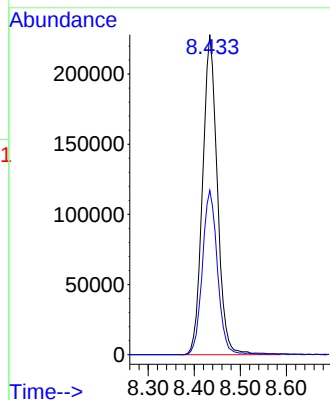
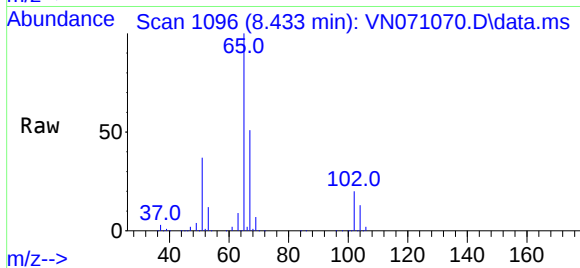
VN0225WBL01

Tgt Ion: 65 Resp: 509635

Ion Ratio Lower Upper

65 100

67 52.6 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. -0.000 min

Lab File: VN071070.D

Acq: 25 Feb 2022 13:25

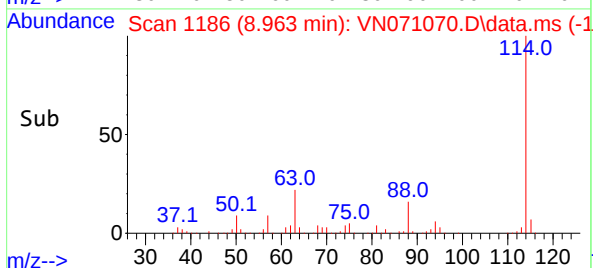
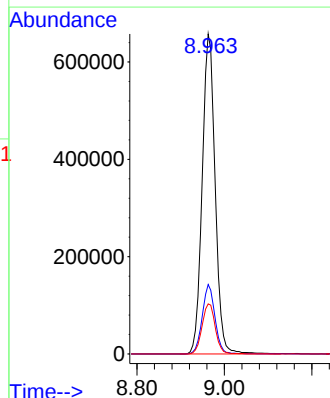
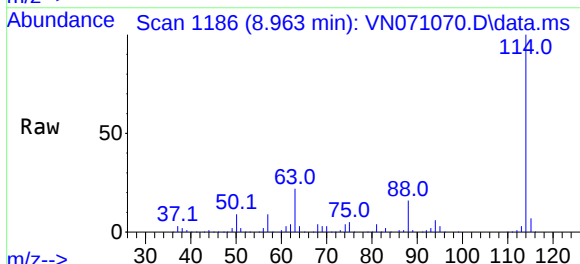
Tgt Ion: 114 Resp: 1359304

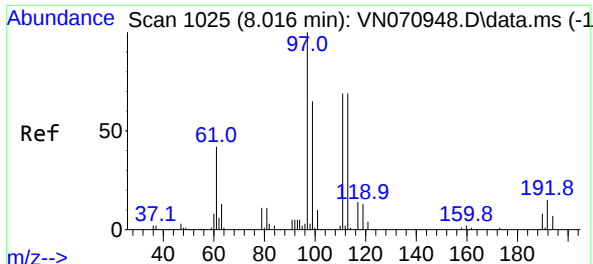
Ion Ratio Lower Upper

114 100

63 21.7 0.0 37.8

88 15.7 0.0 27.4

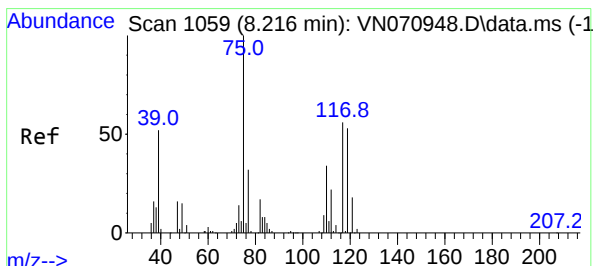
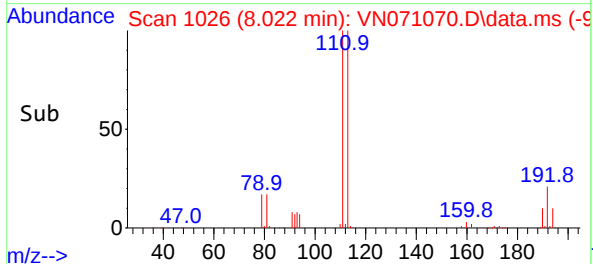
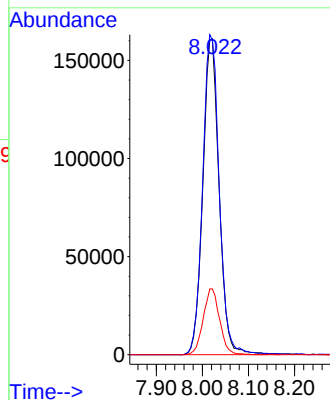
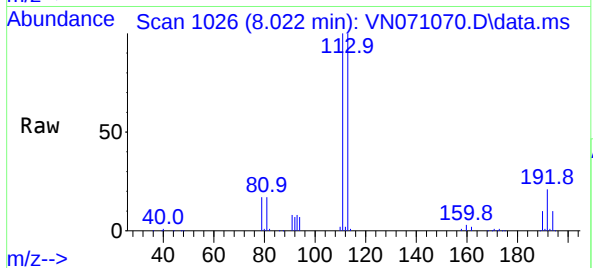




#35  
Dibromofluoromethane  
Concen: 49.106 ug/l  
RT: 8.022 min Scan# 1036  
Delta R.T. 0.006 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

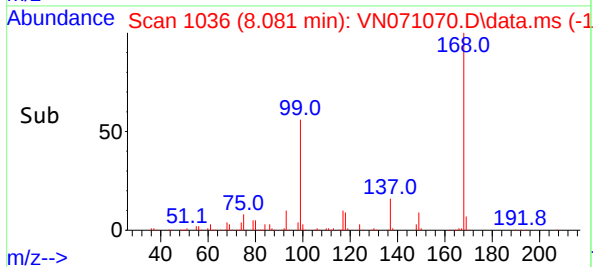
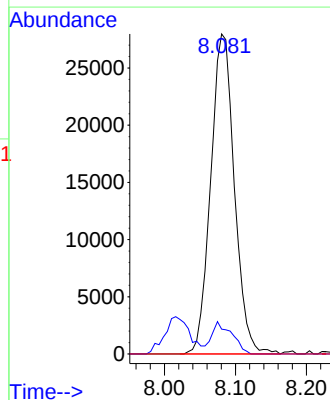
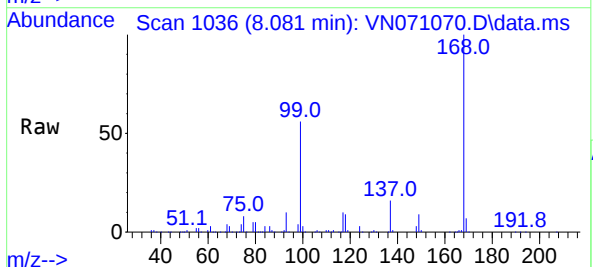
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0225WBL01

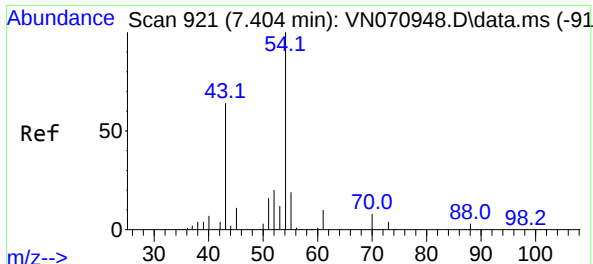
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Ion Ratio Lower Upper  
113 100  
111 103.2 82.2 123.2  
192 21.0 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 4.890 ug/l  
RT: 8.081 min Scan# 1036  
Delta R.T. -0.135 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

Tgt Ion: 75 Resp: 64775  
Ion Ratio Lower Upper  
75 100  
110 8.5 18.4 55.2#  
77 0.0 24.4 36.6#

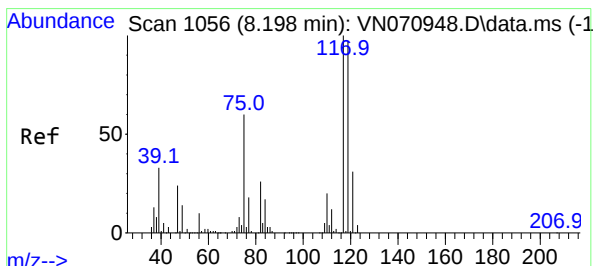
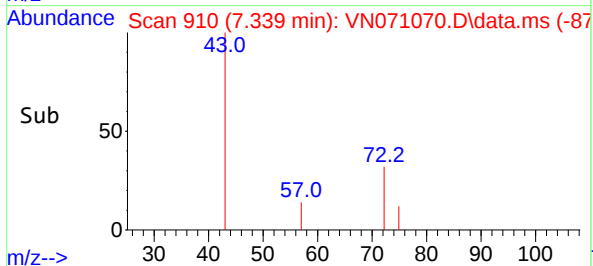
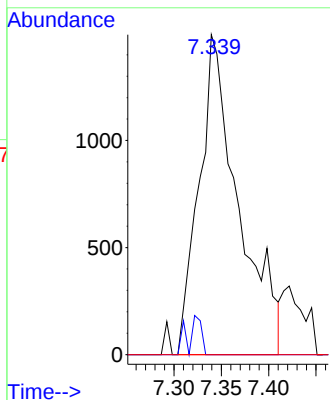
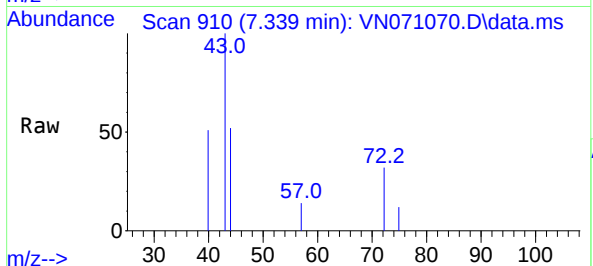




#37  
Ethyl Acetate  
Concen: 0.304 ug/l  
RT: 7.339 min Scan# 91  
Delta R.T. -0.065 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

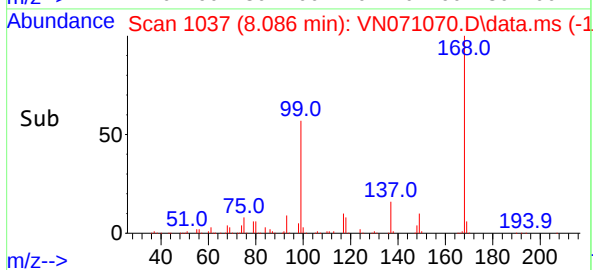
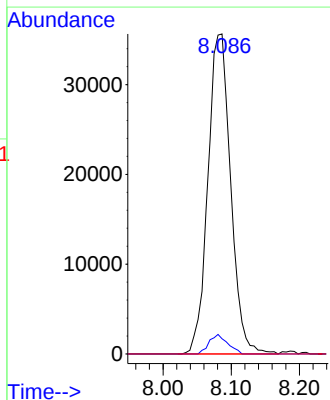
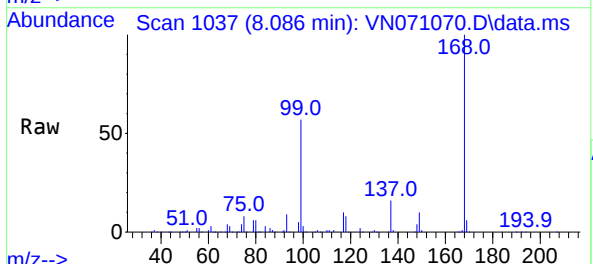
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0225WBL01

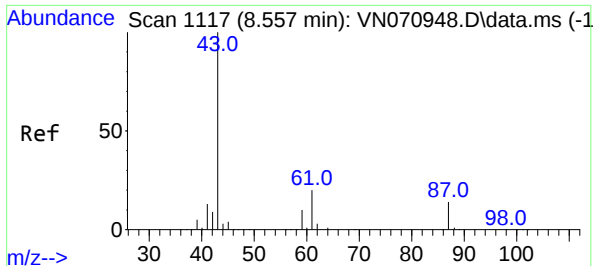
Tgt Ion: 43 Resp: 4325  
Ion Ratio Lower Upper  
43 100  
61 4.1 11.5 17.3#  
70 0.0 7.9 11.9#



#38  
Carbon Tetrachloride  
Concen: 6.356 ug/l  
RT: 8.086 min Scan# 1037  
Delta R.T. -0.112 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

Tgt Ion: 117 Resp: 82960  
Ion Ratio Lower Upper  
117 100  
119 4.7 76.1 114.1#  
121 0.0 24.2 36.2#

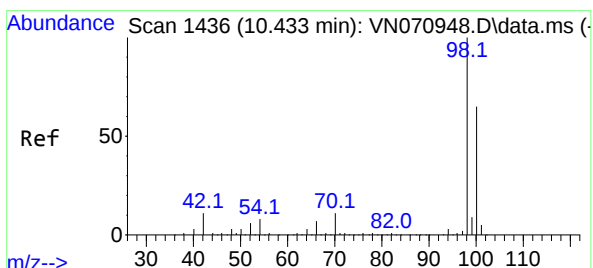
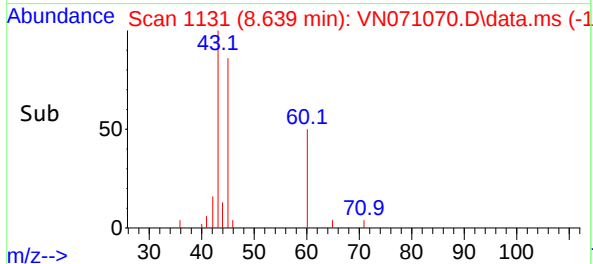
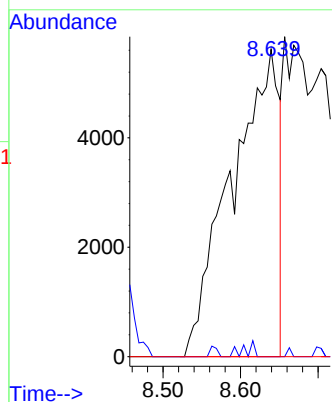
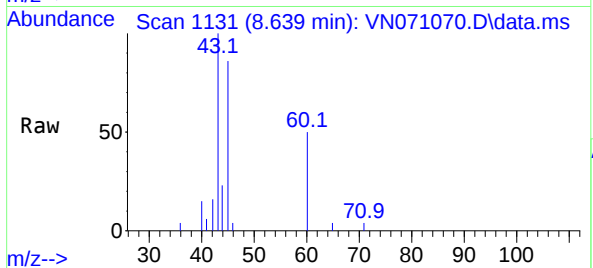




#43  
Isopropyl Acetate  
Concen: 1.071 ug/l  
RT: 8.639 min Scan# 1117  
Delta R.T. 0.082 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

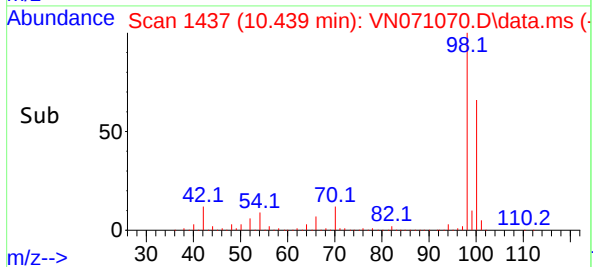
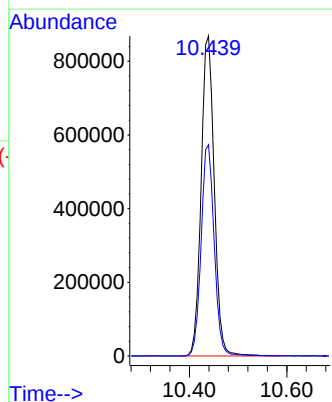
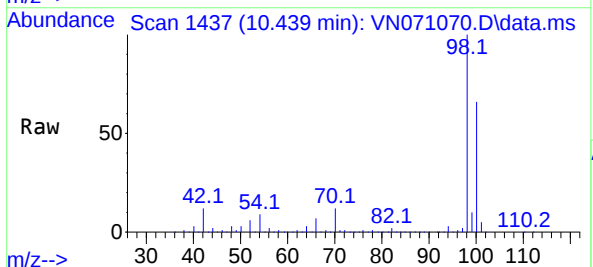
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0225WBL01

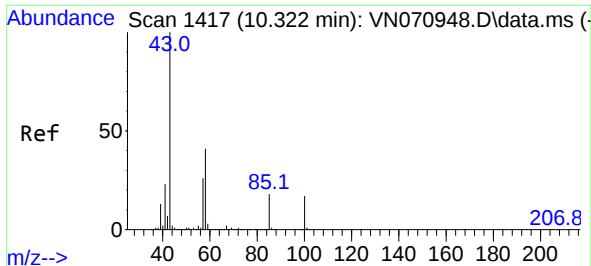
Tgt Ion: 43 Resp: 23986  
Ion Ratio Lower Upper  
43 100  
61 0.0 20.4 30.6#  
87 0.0 11.2 16.8#



#50  
Toluene-d8  
Concen: 50.203 ug/l  
RT: 10.439 min Scan# 1437  
Delta R.T. 0.006 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

Tgt Ion: 98 Resp: 1630060  
Ion Ratio Lower Upper  
98 100  
100 65.6 50.4 75.6

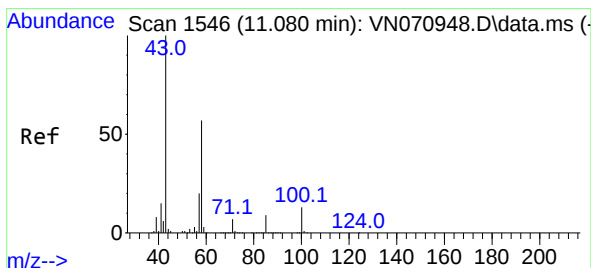
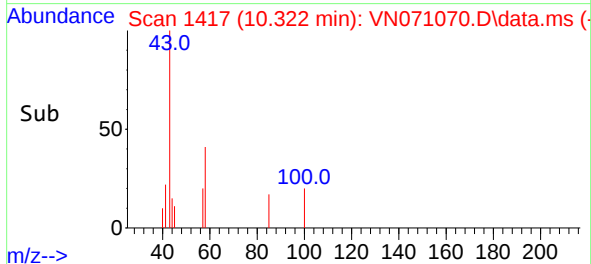
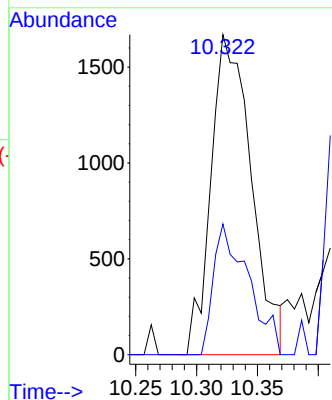
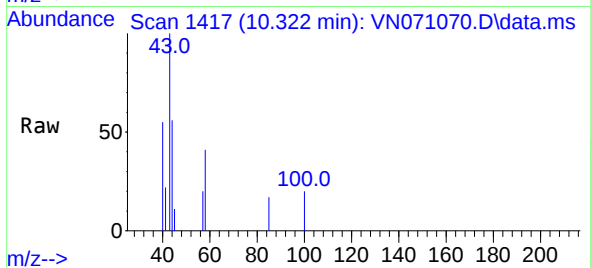




#51  
4-Methyl-2-Pentanone  
Concen: 0.282 ug/l  
RT: 10.322 min Scan# 1417  
Delta R.T. -0.000 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

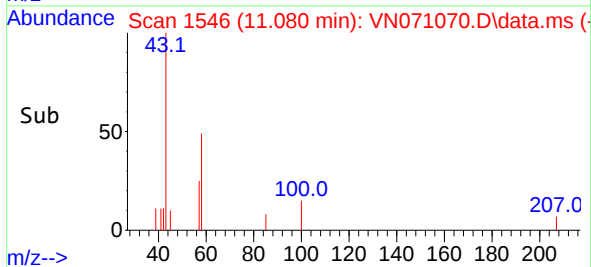
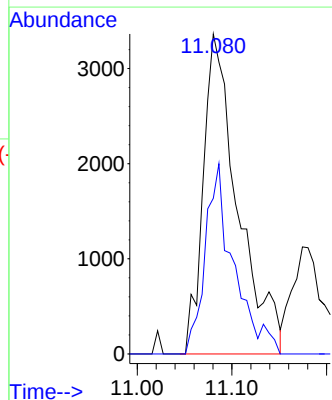
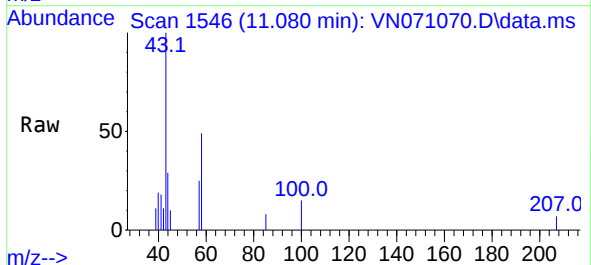
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0225WBL01

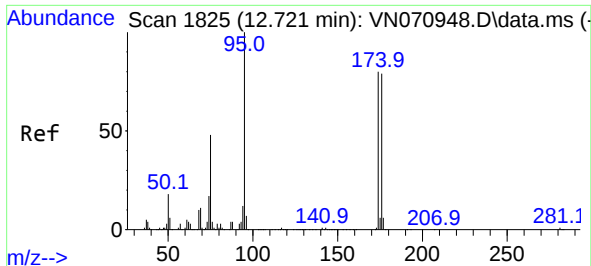
Tgt Ion: 43 Resp: 3846  
Ion Ratio Lower Upper  
43 100  
58 35.0 30.4 45.6



#59  
2-Hexanone  
Concen: 0.912 ug/l  
RT: 11.080 min Scan# 1546  
Delta R.T. 0.000 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

Tgt Ion: 43 Resp: 8547  
Ion Ratio Lower Upper  
43 100  
58 48.9 26.9 80.7



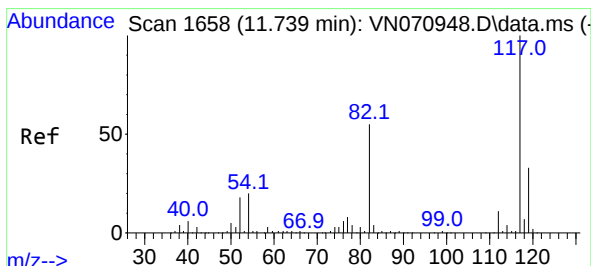
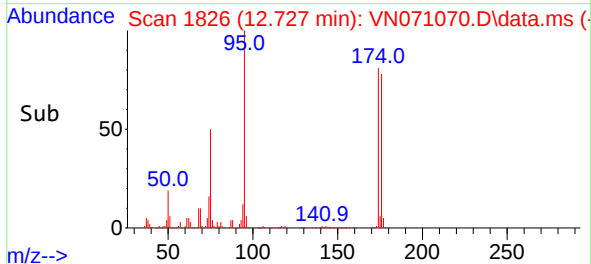
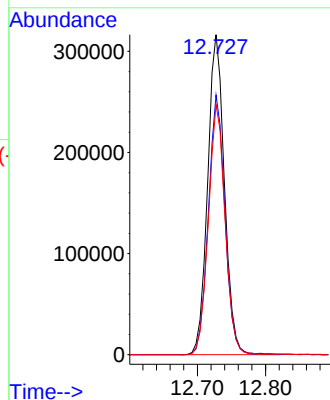
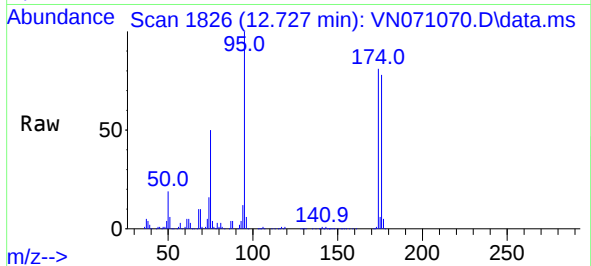


#62  
4-Bromofluorobenzene  
Concen: 46.668 ug/l  
RT: 12.727 min Scan# 1825  
Delta R.T. 0.006 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0225WBL01

Tgt Ion: 95 Resp: 541621

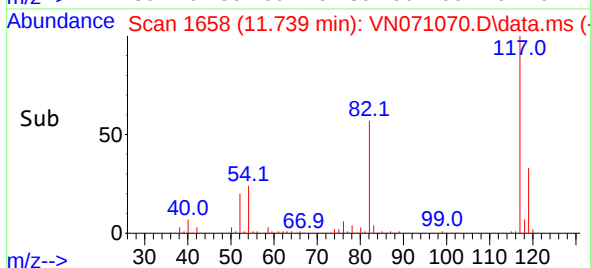
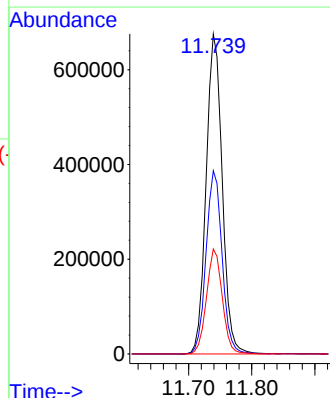
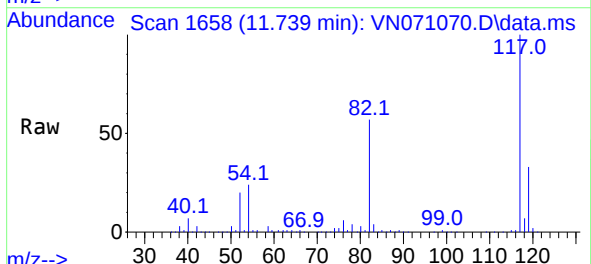
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 174 | 80.2  | 0.0   | 187.2 |
| 176 | 77.6  | 0.0   | 181.4 |

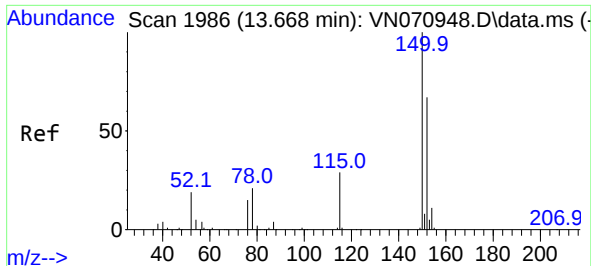


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.739 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

Tgt Ion: 117 Resp: 1194907

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 57.3  | 42.4  | 63.6  |
| 119 | 32.8  | 25.4  | 38.2  |

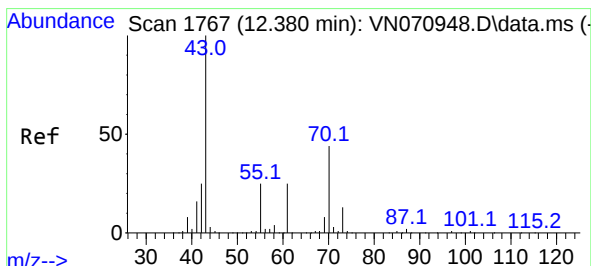
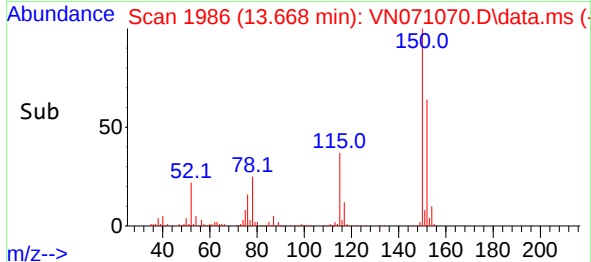
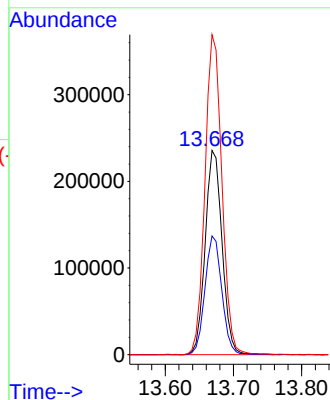
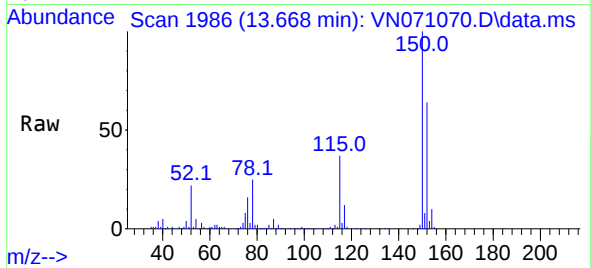




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.668 min Scan# 1986  
Delta R.T. -0.000 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

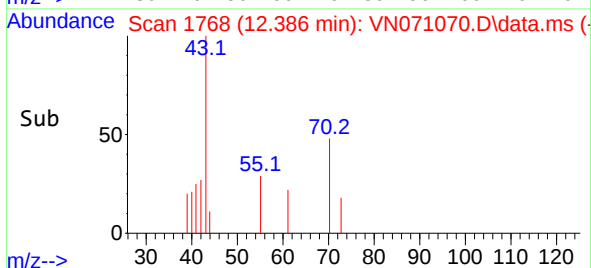
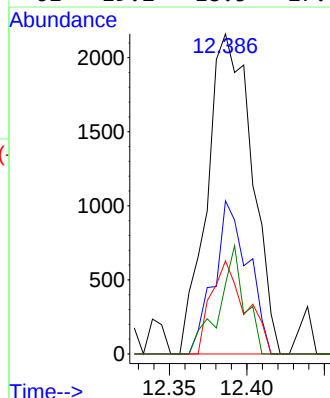
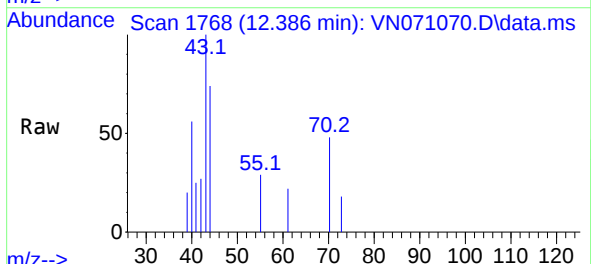
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0225WBL01

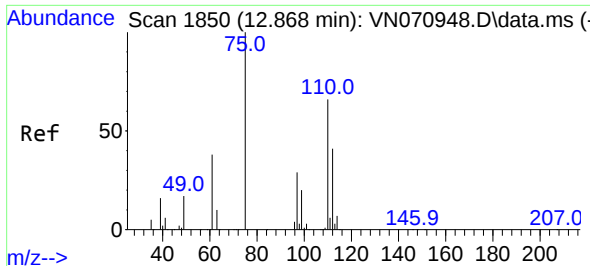
Tgt Ion:152 Resp: 407175  
Ion Ratio Lower Upper  
152 100  
115 58.0 27.5 82.5  
150 156.7 0.0 344.4



#74  
N-ethyl acetate  
Concen: 0.415 ug/l  
RT: 12.386 min Scan# 1768  
Delta R.T. 0.006 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

Tgt Ion: 43 Resp: 4344  
Ion Ratio Lower Upper  
43 100  
70 36.3 33.4 50.0  
55 22.3 19.3 28.9  
61 19.2 18.5 27.7

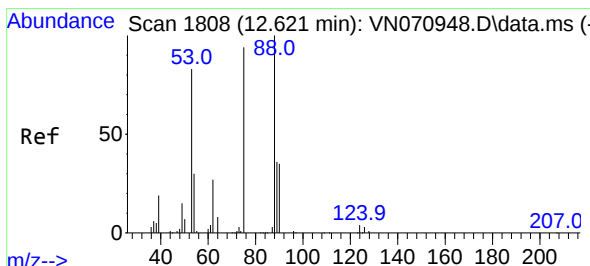
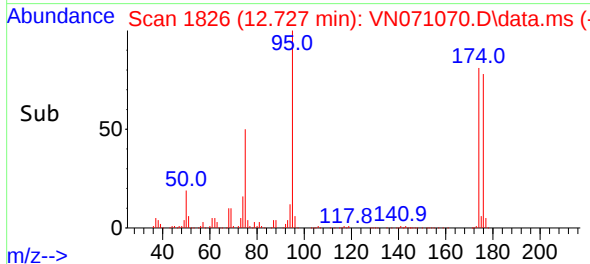
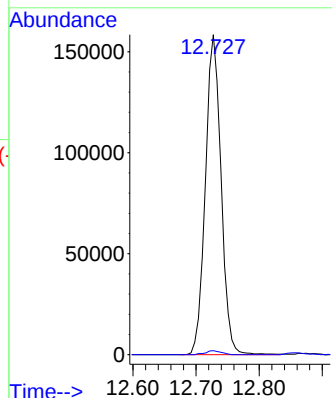
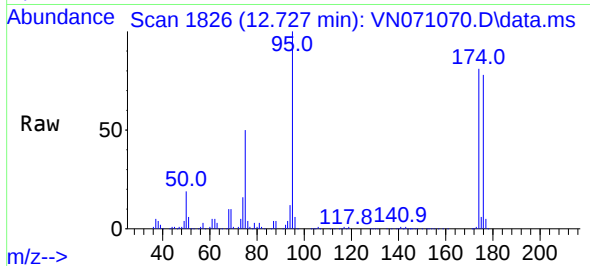




#76  
1,2,3-Trichloropropane  
Concen: 28.529 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. -0.141 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

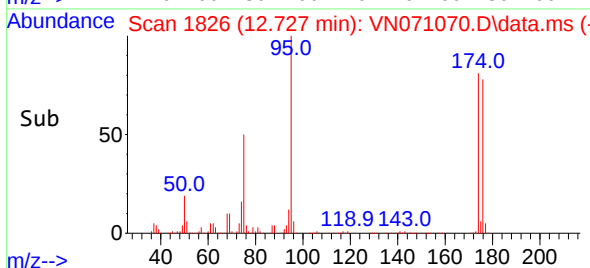
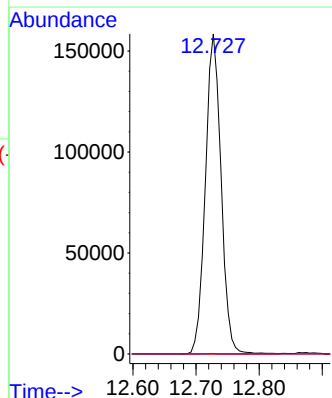
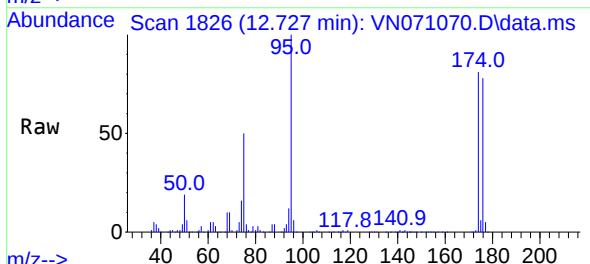
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0225WBL01

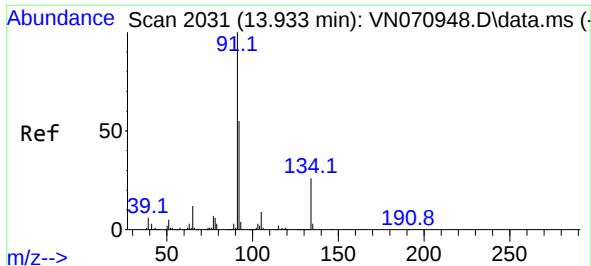
Tgt Ion: 75 Resp: 273507  
Ion Ratio Lower Upper  
75 100  
77 1.3 82.6 247.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 92.447 ug/l  
RT: 12.727 min Scan# 1826  
Delta R.T. 0.106 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

Tgt Ion: 75 Resp: 273507  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 38.2 57.4#





#89

n-Butylbenzene

Concen: 0.237 ug/l

RT: 13.939 min Scan# 2031

Delta R.T. 0.006 min

Lab File: VN071070.D

Acq: 25 Feb 2022 13:25

Instrument :

MSVOA\_N

ClientSampleId :

VN0225WBL01

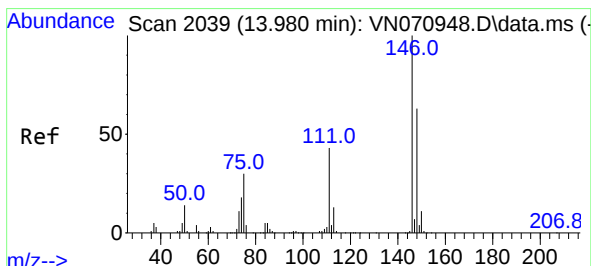
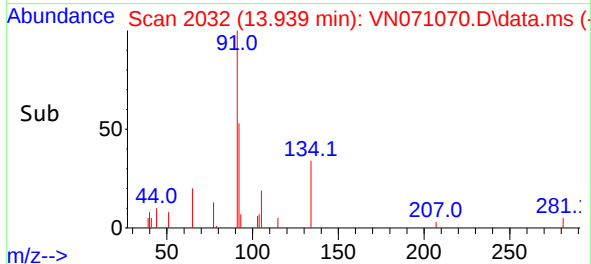
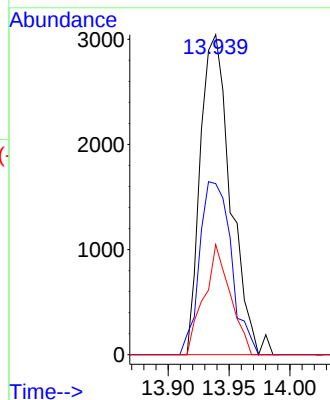
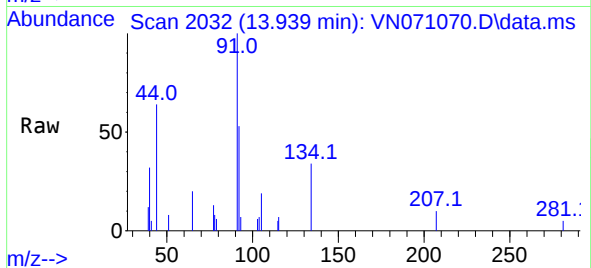
Tgt Ion: 91 Resp: 5275

Ion Ratio Lower Upper

91 100

92 56.4 25.4 76.0

134 29.6 13.6 40.8



#91

1,2-Dichlorobenzene

Concen: 0.213 ug/l

RT: 13.980 min Scan# 2039

Delta R.T. -0.000 min

Lab File: VN071070.D

Acq: 25 Feb 2022 13:25

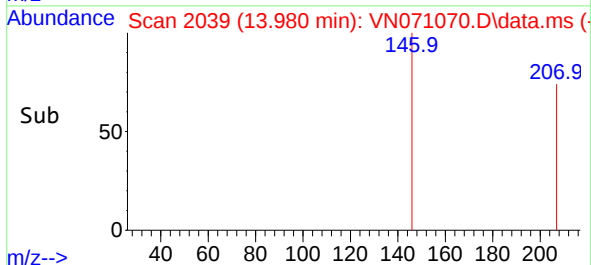
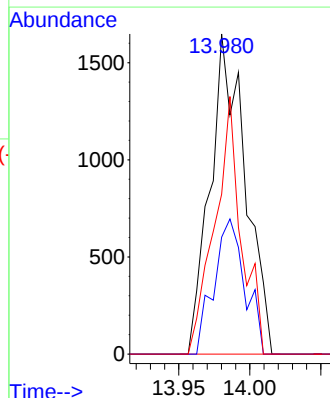
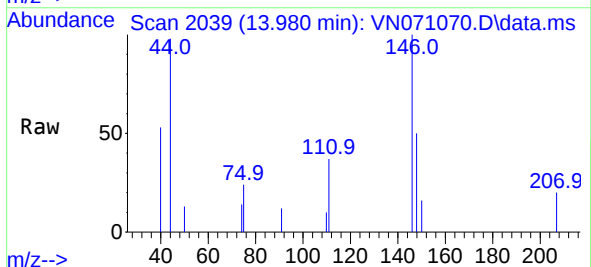
Tgt Ion: 146 Resp: 2839

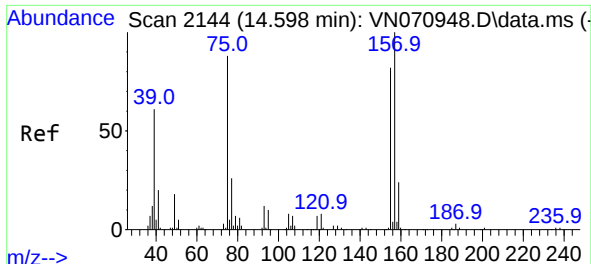
Ion Ratio Lower Upper

146 100

111 37.1 19.1 57.3

148 60.8 32.1 96.3

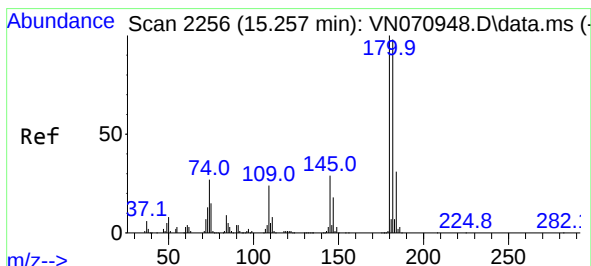
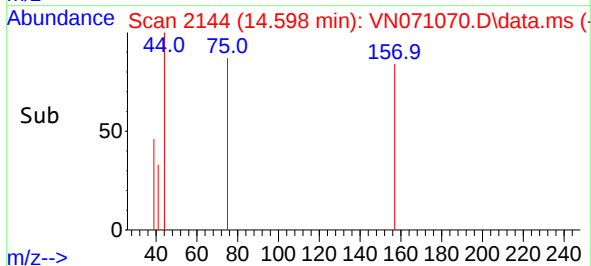
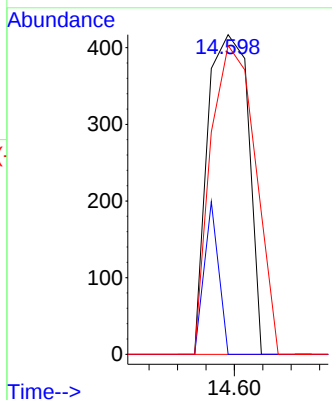
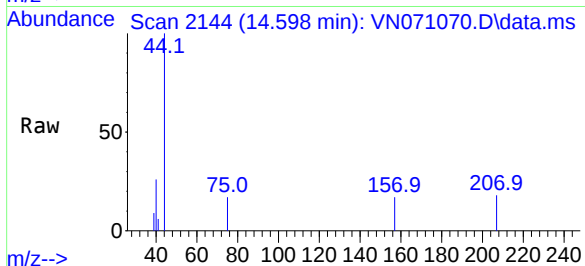




#92  
1,2-Dibromo-3-Chloropropane  
Concen: 0.246 ug/l  
RT: 14.598 min Scan# 2144  
Delta R.T. -0.000 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

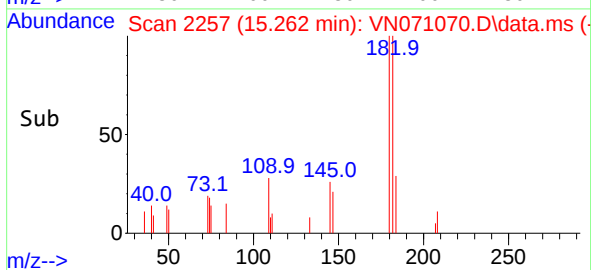
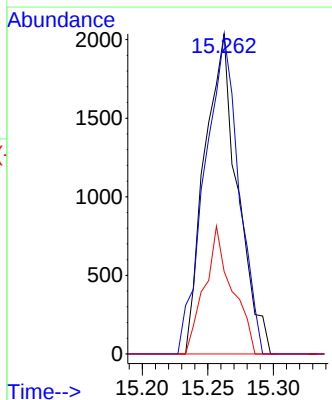
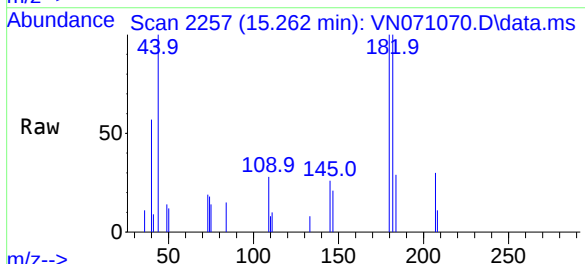
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0225WBL01

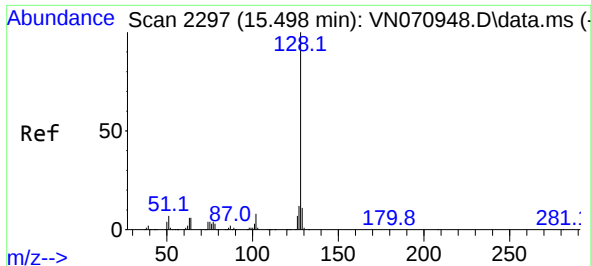
Tgt Ion: 75 Resp: 415  
Ion Ratio Lower Upper  
75 100  
155 16.9 46.9 140.7#  
157 106.0 60.6 181.7



#93  
1,2,4-Trichlorobenzene  
Concen: 2.456 ug/l  
RT: 15.262 min Scan# 2257  
Delta R.T. 0.005 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

Tgt Ion: 180 Resp: 3568  
Ion Ratio Lower Upper  
180 100  
182 102.9 48.3 144.9  
145 33.1 14.5 43.5

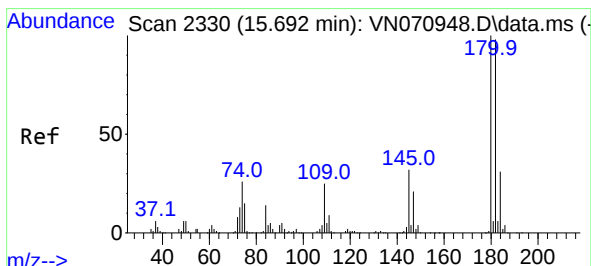
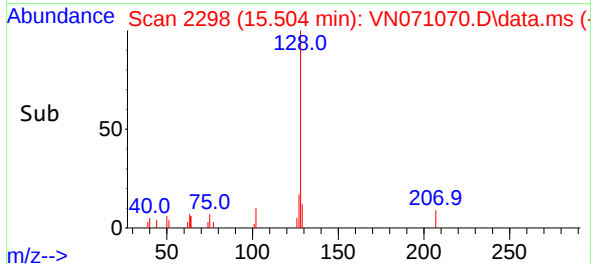
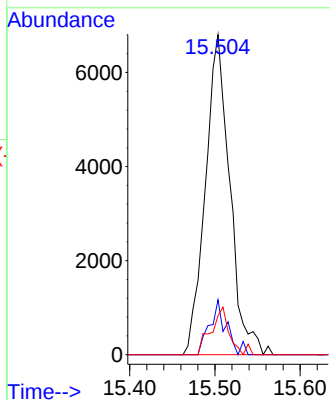
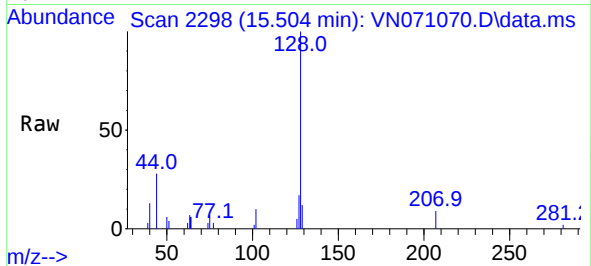




#95  
Naphthalene  
Concen: 5.661 ug/l  
RT: 15.504 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0225WBL01

Tgt Ion:128 Resp: 13572  
Ion Ratio Lower Upper  
128 100  
127 11.8 10.5 15.7  
129 10.7 8.7 13.1



#96  
1,2,3-Trichlorobenzene  
Concen: 3.132 ug/l  
RT: 15.692 min Scan# 2330  
Delta R.T. -0.000 min  
Lab File: VN071070.D  
Acq: 25 Feb 2022 13:25

Tgt Ion:180 Resp: 4484  
Ion Ratio Lower Upper  
180 100  
182 83.8 47.4 142.2  
145 26.1 15.0 45.1

