

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN082522\  
 Data File : VN074111.D  
 Acq On : 25 Aug 2022 13:55  
 Operator : JC\MD  
 Sample : N4244-03RE  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-105S

Quant Time: Aug 26 01:59:57 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081522W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 16 00:45:21 2022  
 Response via : Initial Calibration

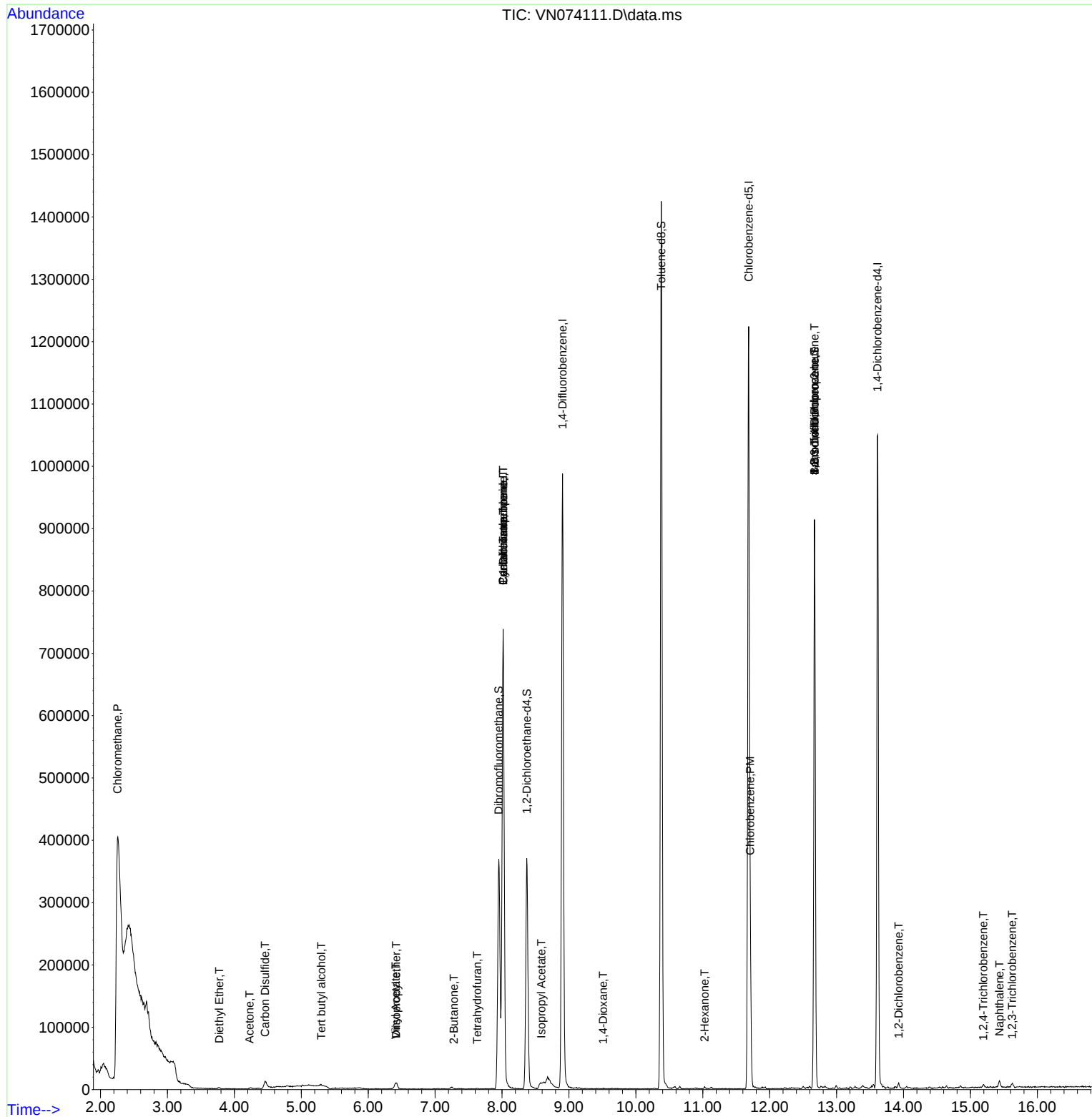
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 8.016          | 168  | 604495              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.904          | 114  | 916772              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.686         | 117  | 749652              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.610         | 152  | 307733              | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.369          | 65   | 306502              | 52.058    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 104.120% |           |        |          |
| 35) Dibromofluoromethane      | 7.951          | 113  | 277916              | 51.260    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 102.520% |           |        |          |
| 50) Toluene-d8                | 10.381         | 98   | 1015785             | 48.376    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 96.760%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.669         | 95   | 305748              | 43.874    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 87.740%  |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
|                               |                |      |                     |           | Qvalue |          |
| 3) Chloromethane              | 2.252          | 50   | 34258               | 6.427     | ug/l # | 43       |
| 8) Diethyl Ether              | 3.775          | 74   | 961                 | 0.293     | ug/l   | 64       |
| 11) Tert butyl alcohol        | 5.299          | 59   | 2906                | 2.207     | ug/l # | 72       |
| 16) Acetone                   | 4.228          | 43   | 3093                | 1.113     | ug/l # | 78       |
| 17) Carbon Disulfide          | 4.457          | 76   | 29016               | 2.558     | ug/l   | 99       |
| 18) Methyl Acetate            | 4.787          | 43   | 2786                | Below Cal |        | 93       |
| 22) Diisopropyl ether         | 6.416          | 45   | 12366               | 0.825     | ug/l # | 89       |
| 23) Vinyl Acetate             | 6.410          | 43   | 7899                | 0.615     | ug/l # | 68       |
| 25) 2-Butanone                | 7.281          | 43   | 1048                | 0.238     | ug/l # | 45       |
| 29) Tetrahydrofuran           | 7.628          | 42   | 828                 | 0.293     | ug/l # | 35       |
| 31) Cyclohexane               | 8.016          | 56   | 10261               | 1.250     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.016          | 75   | 39863               | 5.293     | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 8.016          | 117  | 56095               | 6.517     | ug/l # | 17       |
| 43) Isopropyl Acetate         | 8.587          | 43   | 8694                | 0.669     | ug/l # | 53       |
| 49) 1,4-Dioxane               | 9.510          | 88   | 182                 | 1.101     | ug/l # | 1        |
| 59) 2-Hexanone                | 11.028         | 43   | 1597                | 0.236     | ug/l   | 92       |
| 65) Chlorobenzene             | 11.710         | 112  | 113777              | 7.141     | ug/l   | 98       |
| 71) Bromoform                 | 12.669         | 173  | 1884                | 0.350     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.669         | 75   | 146971              | 22.978    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.669         | 75   | 146971              | 65.353    | ug/l # | 11       |
| 91) 1,2-Dichlorobenzene       | 13.927         | 146  | 4040                | 0.372     | ug/l   | 92       |
| 93) 1,2,4-Trichlorobenzene    | 15.192         | 180  | 2482                | 0.375     | ug/l   | 90       |
| 95) Naphthalene               | 15.433         | 128  | 12007               | 0.557     | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.621         | 180  | 2781                | 0.407     | ug/l   | 95       |
| -----                         |                |      |                     |           |        |          |

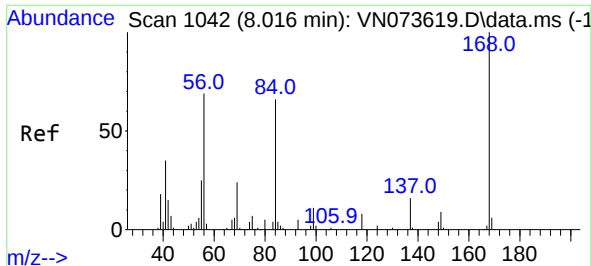
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Quant Title : SW846 8260  
QLast Update : Tue Aug 16 00:45:21 2022  
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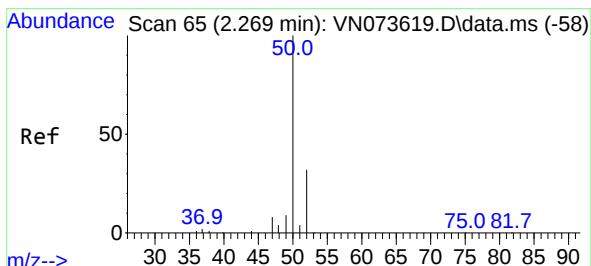
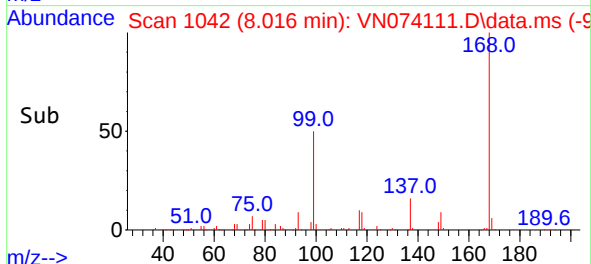
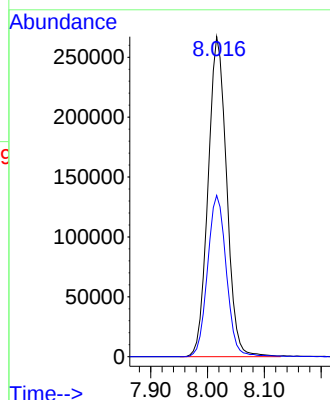
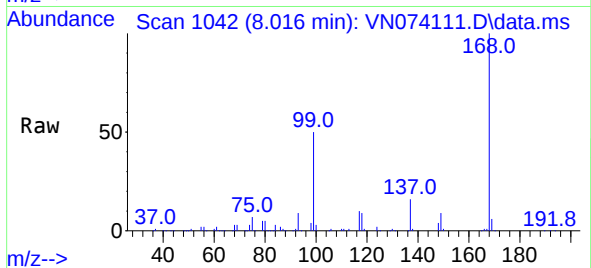




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. 0.000 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

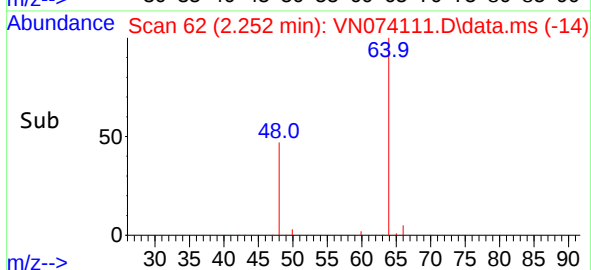
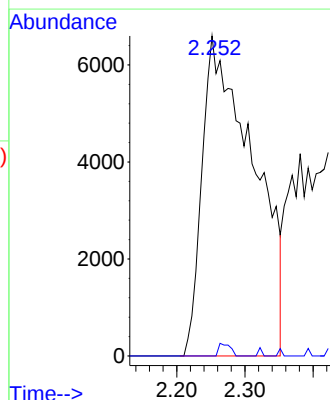
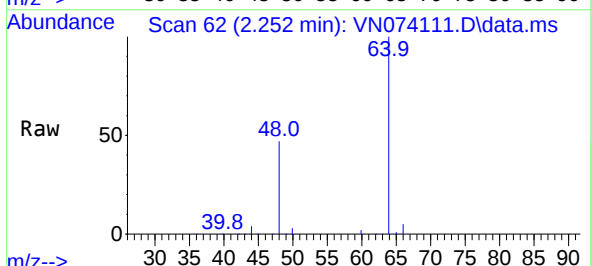
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-105S

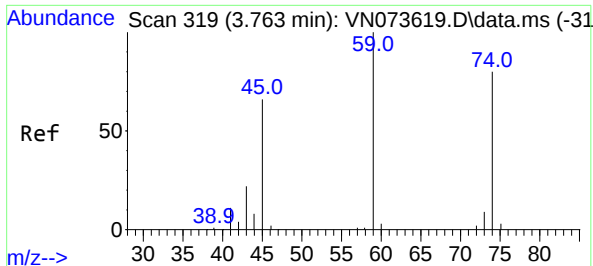
Tgt Ion:168 Resp: 604495  
Ion Ratio Lower Upper  
168 100  
99 50.4 42.3 63.5



#3  
Chloromethane  
Concen: 6.427 ug/l  
RT: 2.252 min Scan# 62  
Delta R.T. -0.017 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

Tgt Ion: 50 Resp: 34258  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.7 38.5#

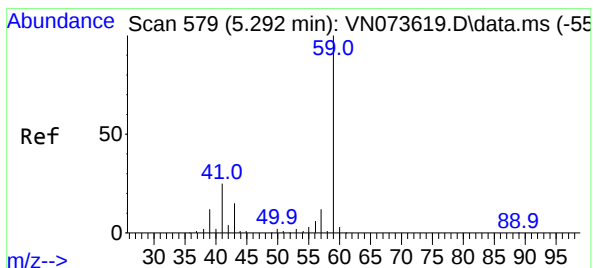
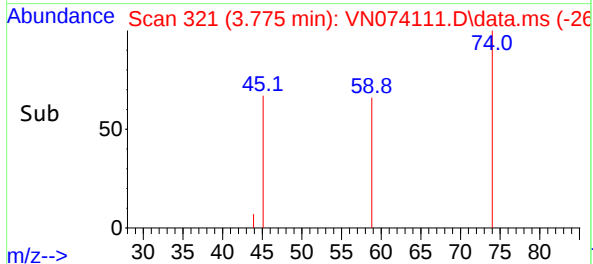
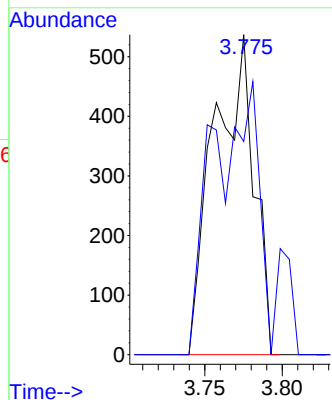
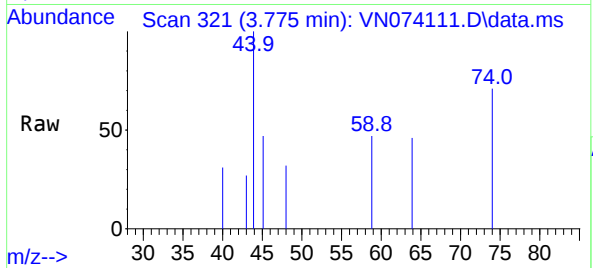




#8  
Diethyl Ether  
Concen: 0.293 ug/l  
RT: 3.775 min Scan# 319  
Delta R.T. 0.012 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

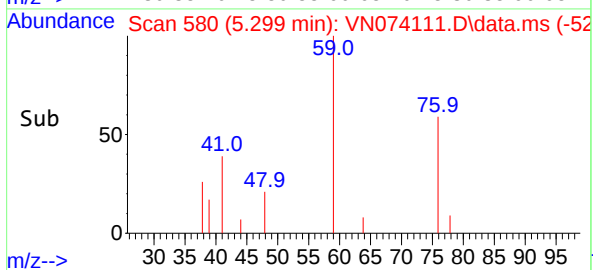
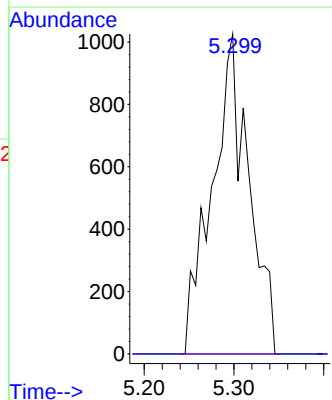
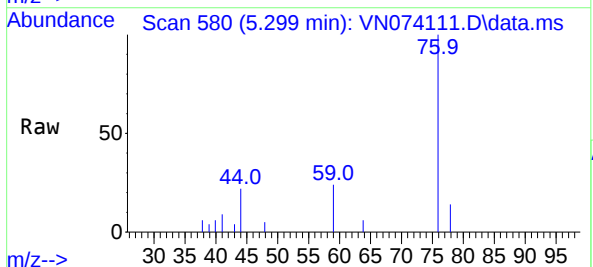
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-105S

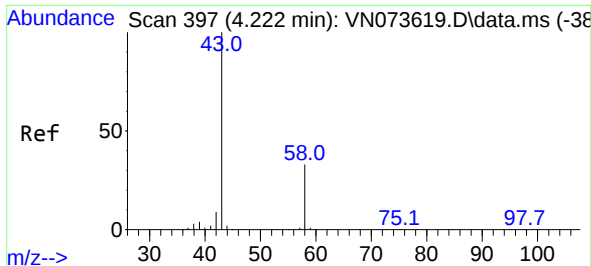
Tgt Ion: 74 Resp: 961  
Ion Ratio Lower Upper  
74 100  
45 52.3 42.9 128.5



#11  
Tert butyl alcohol  
Concen: 2.207 ug/l  
RT: 5.299 min Scan# 580  
Delta R.T. 0.007 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

Tgt Ion: 59 Resp: 2906  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#

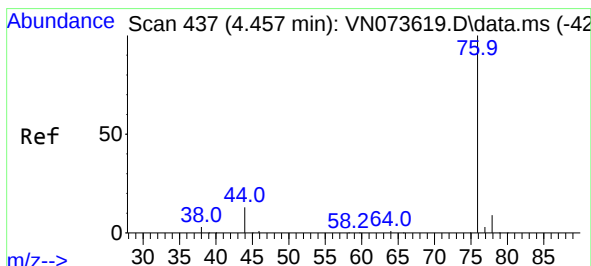
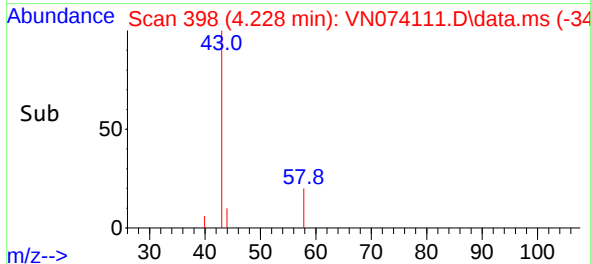
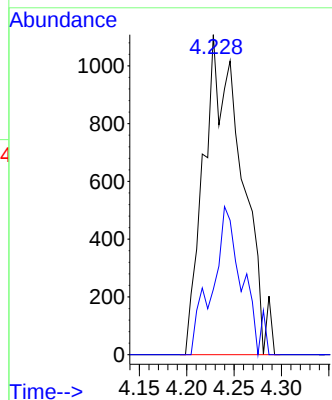
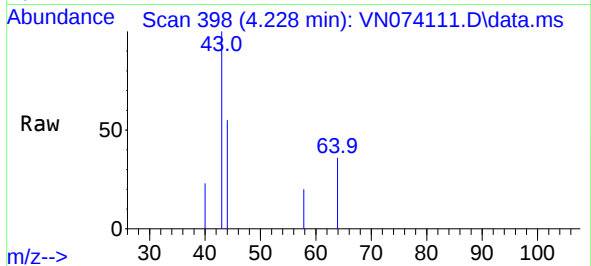




#16  
Acetone  
Concen: 1.113 ug/l  
RT: 4.228 min Scan# 397  
Delta R.T. 0.006 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

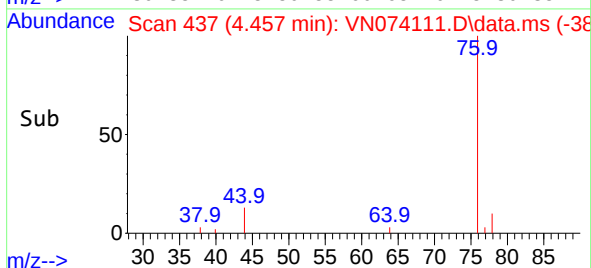
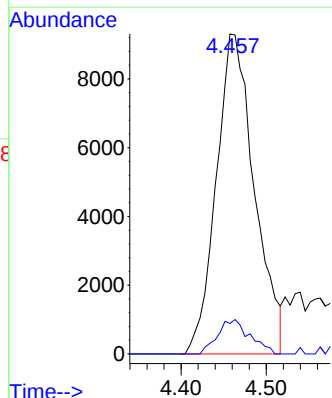
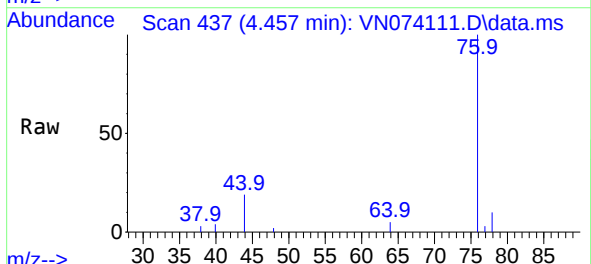
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-105S

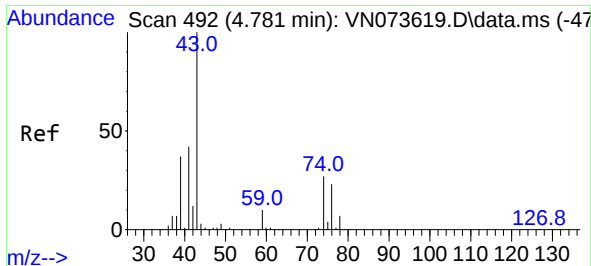
Tgt Ion: 43 Resp: 3093  
Ion Ratio Lower Upper  
43 100  
58 20.4 26.0 39.0#



#17  
Carbon Disulfide  
Concen: 2.558 ug/l  
RT: 4.457 min Scan# 437  
Delta R.T. 0.000 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

Tgt Ion: 76 Resp: 29016  
Ion Ratio Lower Upper  
76 100  
78 9.5 7.2 10.8

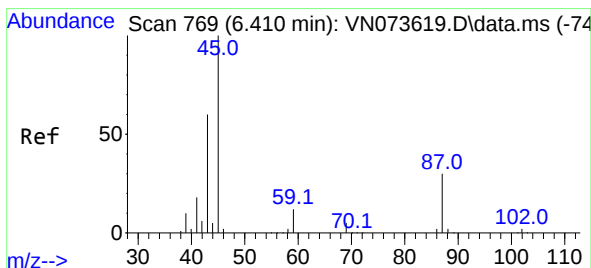
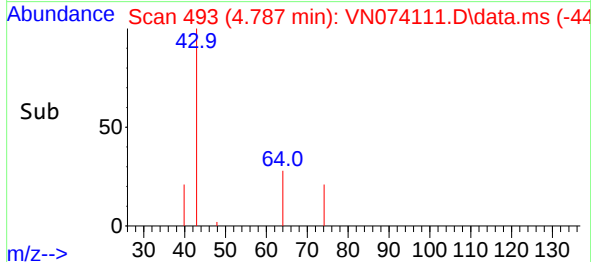
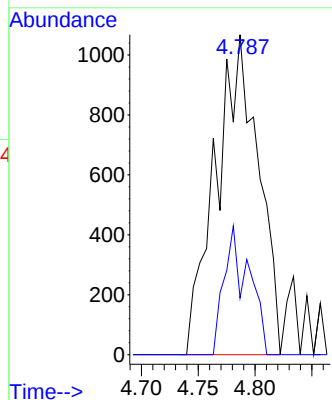
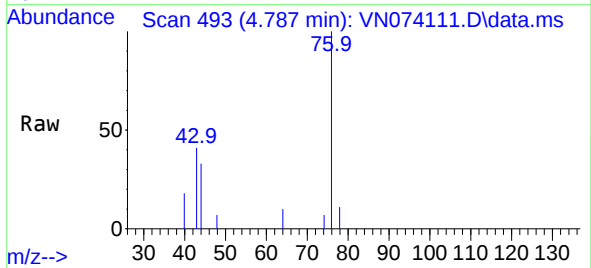




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.787 min Scan# 492  
Delta R.T. 0.006 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

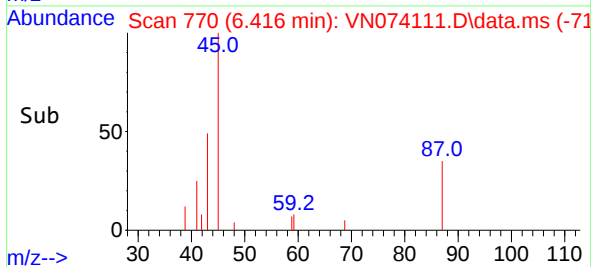
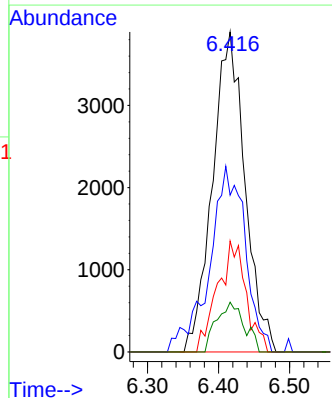
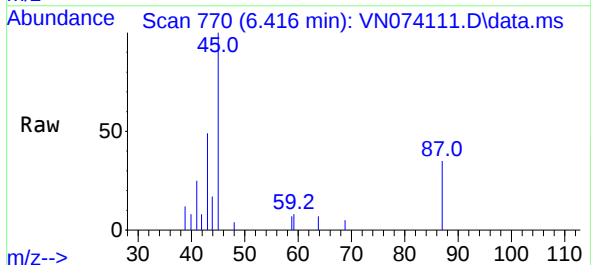
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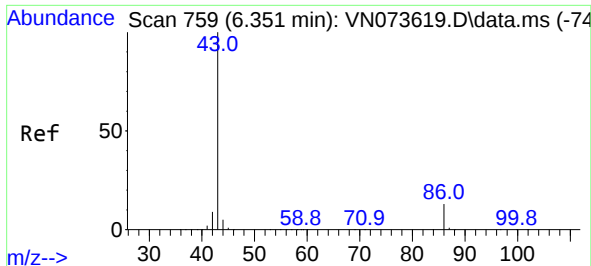
Tgt Ion: 43 Resp: 2786  
Ion Ratio Lower Upper  
43 100  
74 23.3 21.6 32.4



#22  
Diisopropyl ether  
Concen: 0.825 ug/l  
RT: 6.416 min Scan# 770  
Delta R.T. 0.006 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

Tgt Ion: 45 Resp: 12366  
Ion Ratio Lower Upper  
45 100  
43 49.0 46.6 70.0  
87 34.6 24.3 36.5  
59 15.5 9.6 14.4#

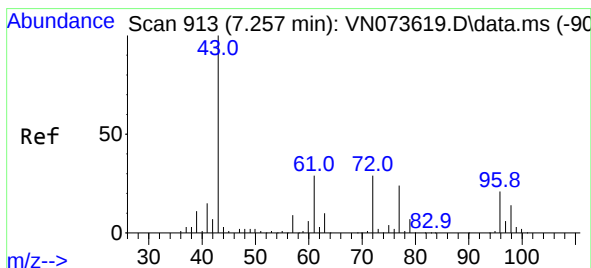
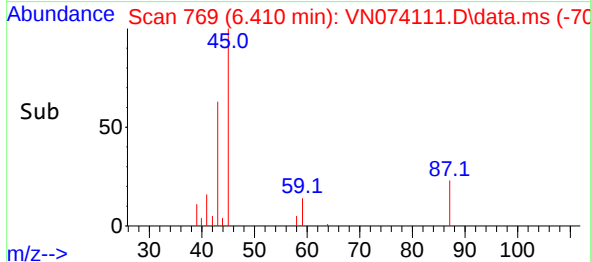
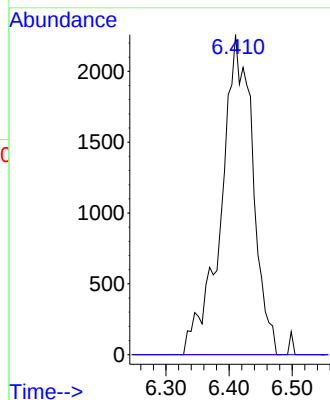
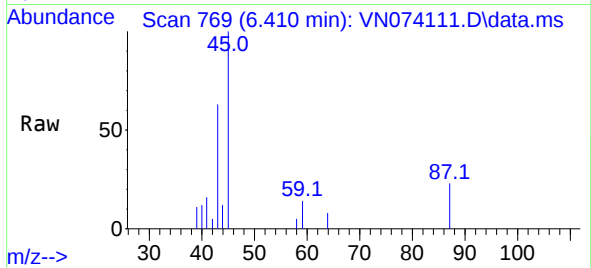




#23  
 Vinyl Acetate  
 Concen: 0.615 ug/l  
 RT: 6.410 min Scan# 709  
 Delta R.T. 0.059 min  
 Lab File: VN074111.D  
 Acq: 25 Aug 2022 13:55

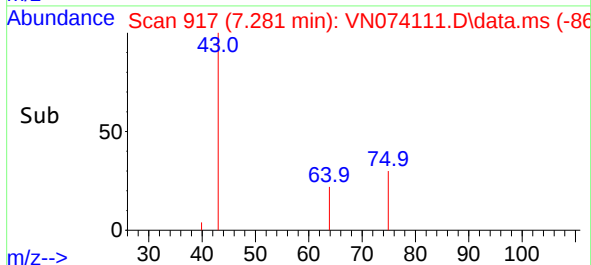
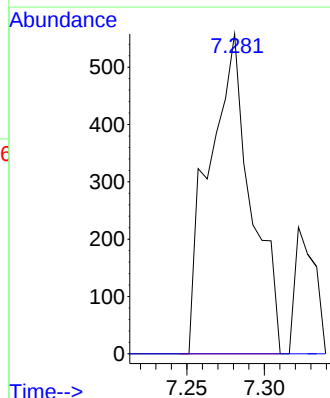
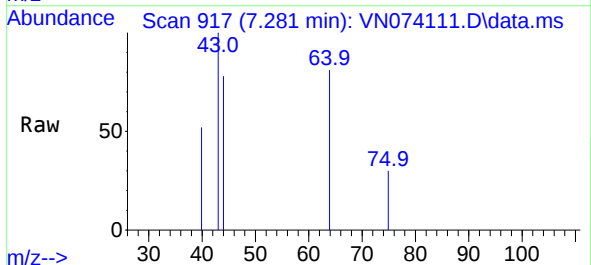
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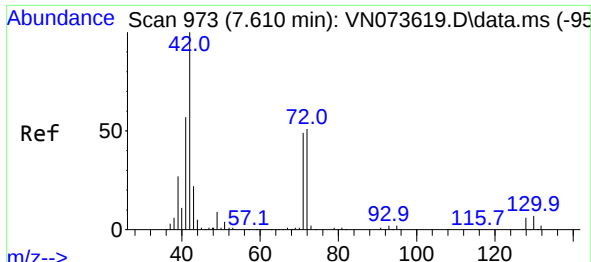
Tgt Ion: 43 Resp: 7899  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 10.0 15.0#



#25  
 2-Butanone  
 Concen: 0.238 ug/l  
 RT: 7.281 min Scan# 917  
 Delta R.T. 0.024 min  
 Lab File: VN074111.D  
 Acq: 25 Aug 2022 13:55

Tgt Ion: 43 Resp: 1048  
 Ion Ratio Lower Upper  
 43 100  
 72 0.0 23.7 35.5#





#29

Tetrahydrofuran

Concen: 0.293 ug/l

RT: 7.628 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN074111.D

Acq: 25 Aug 2022 13:55

Instrument :

MSVOA\_N

ClientSampleId :

MW-105S

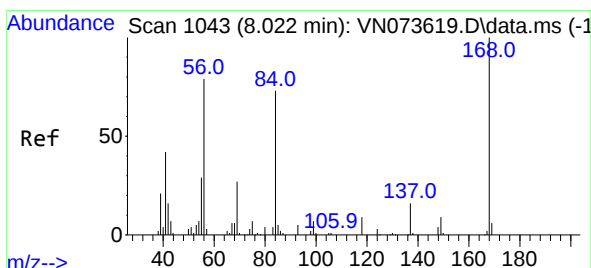
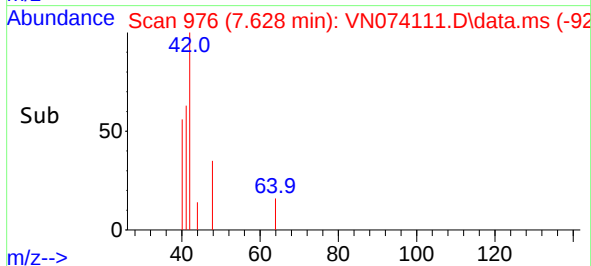
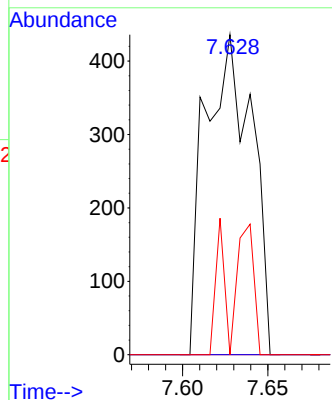
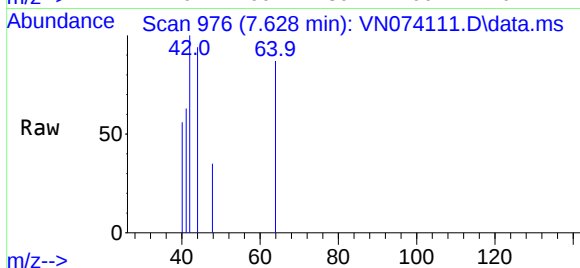
Tgt Ion: 42 Resp: 828

Ion Ratio Lower Upper

42 100

72 0.0 39.7 59.5#

71 8.0 36.6 55.0#



#31

Cyclohexane

Concen: 1.250 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.006 min

Lab File: VN074111.D

Acq: 25 Aug 2022 13:55

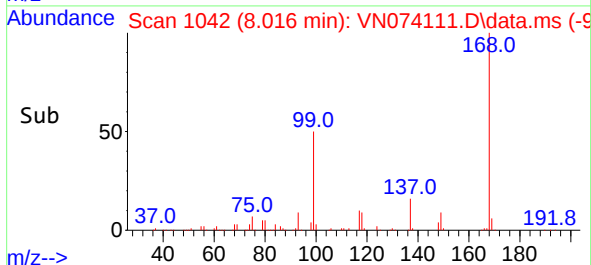
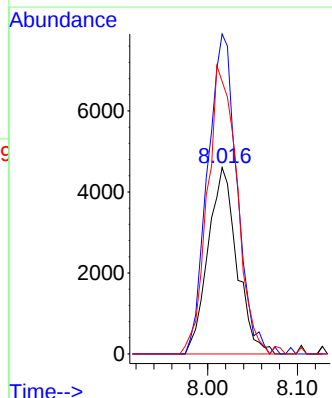
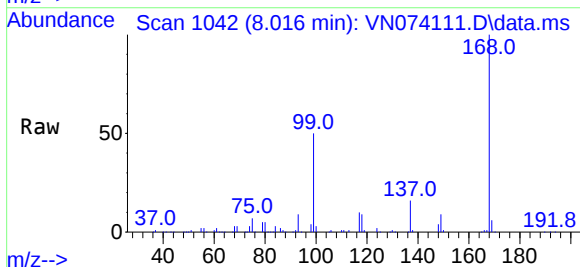
Tgt Ion: 56 Resp: 10261

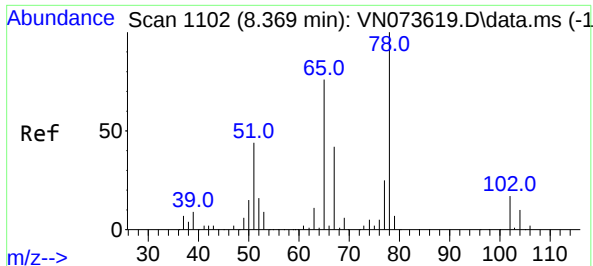
Ion Ratio Lower Upper

56 100

69 171.7 27.8 41.8#

84 146.2 76.9 115.3#

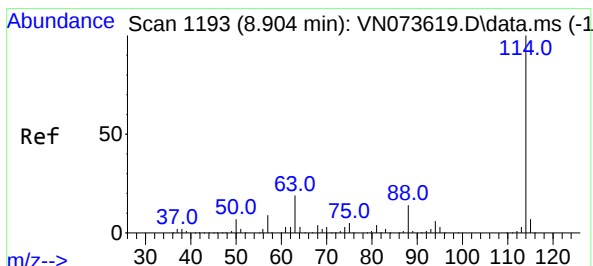
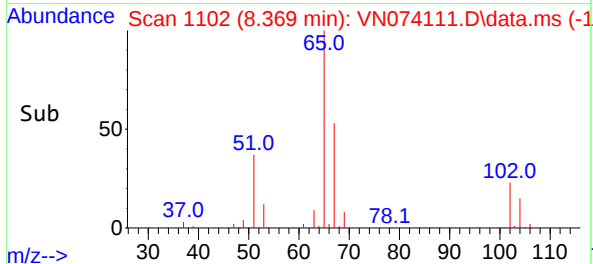
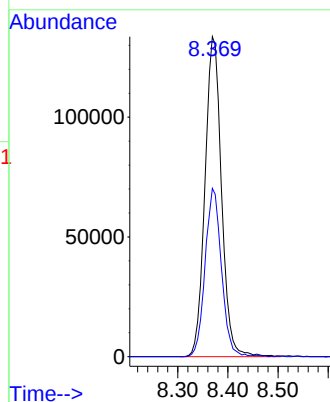
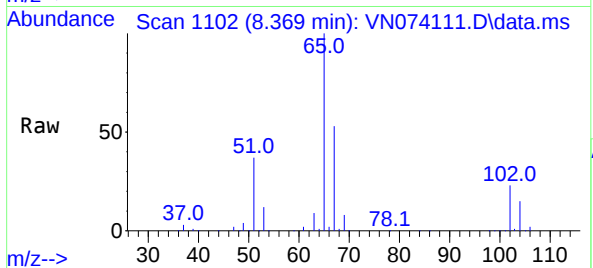




#33  
1,2-Dichloroethane-d4  
Concen: 52.058 ug/l  
RT: 8.369 min Scan# 1102  
Delta R.T. -0.000 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

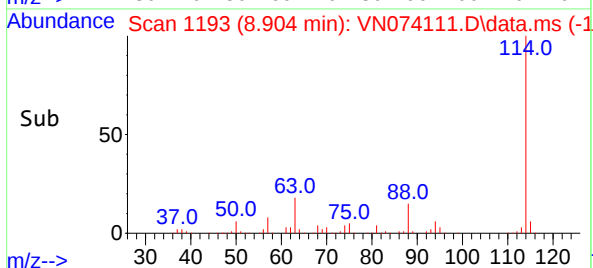
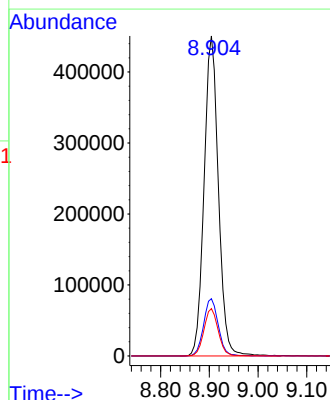
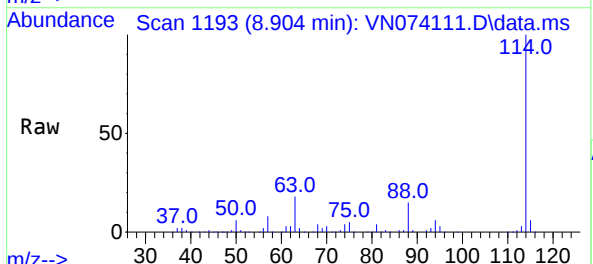
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-105S

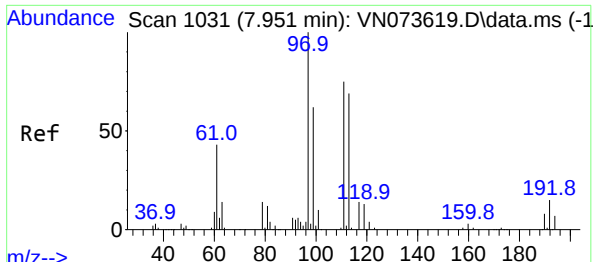
Tgt Ion: 65 Resp: 306502  
Ion Ratio Lower Upper  
65 100  
67 52.1 0.0 104.8



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.904 min Scan# 1193  
Delta R.T. 0.000 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

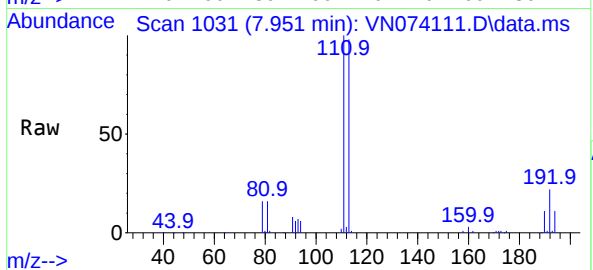
Tgt Ion: 114 Resp: 916772  
Ion Ratio Lower Upper  
114 100  
63 17.9 0.0 40.0  
88 14.8 0.0 32.6



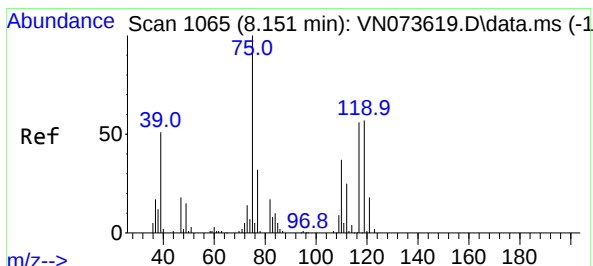
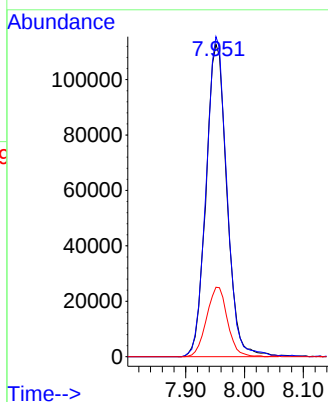
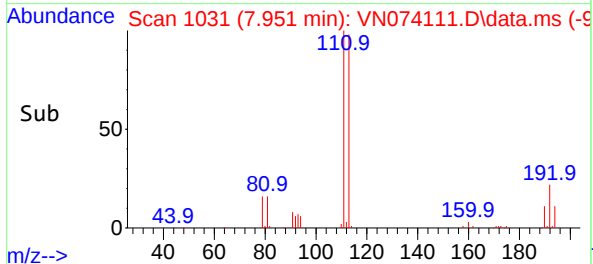


#35  
Dibromofluoromethane  
Concen: 51.260 ug/l  
RT: 7.951 min Scan# 1031  
Delta R.T. 0.000 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

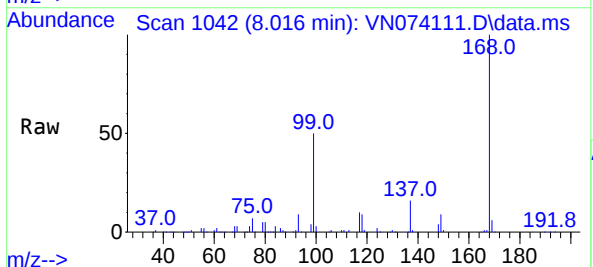
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-105S



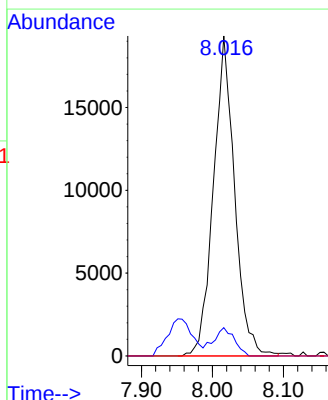
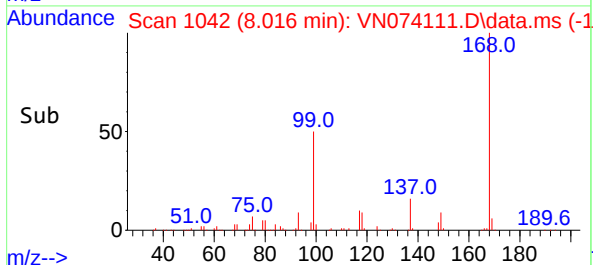
Tgt Ion:113 Resp: 277916  
Ion Ratio Lower Upper  
113 100  
111 101.5 81.4 122.0  
192 22.3 17.0 25.6

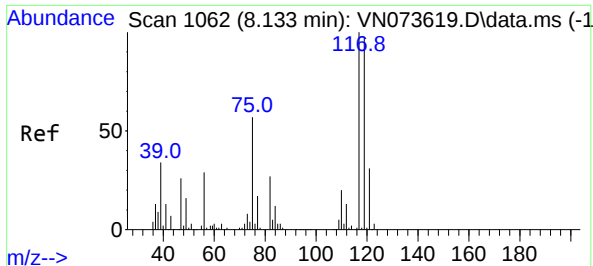


#36  
1,1-Dichloropropene  
Concen: 5.293 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. -0.135 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55



Tgt Ion: 75 Resp: 39863  
Ion Ratio Lower Upper  
75 100  
110 8.7 18.3 54.8#  
77 0.0 25.1 37.7#

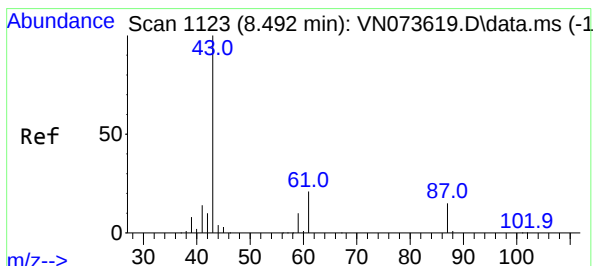
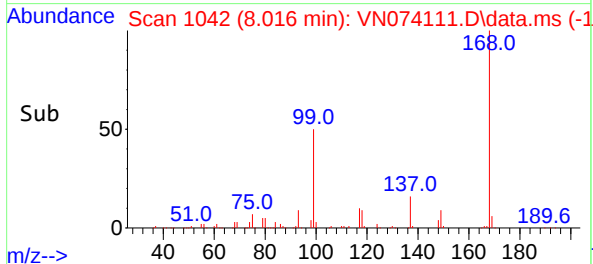
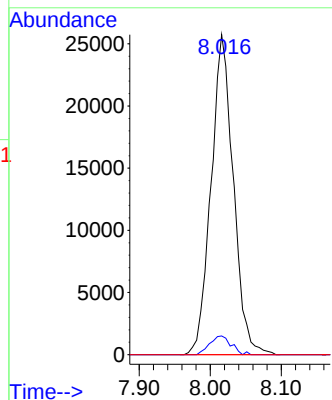
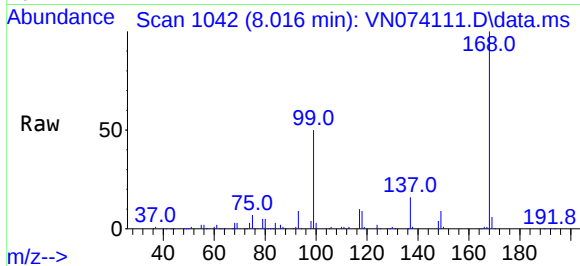




#38  
Carbon Tetrachloride  
Concen: 6.517 ug/l  
RT: 8.016 min Scan# 1139  
Delta R.T. -0.117 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

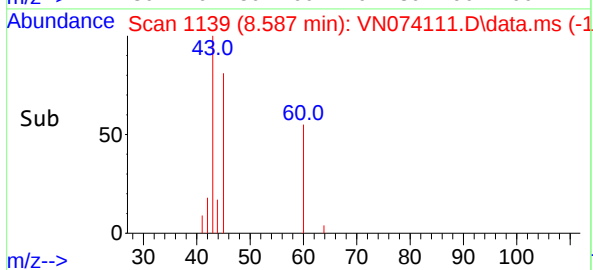
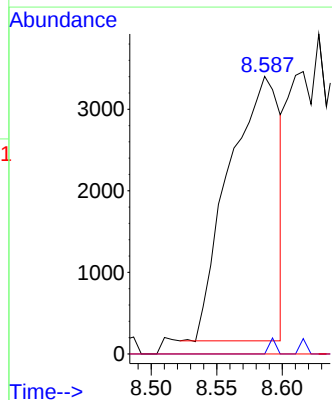
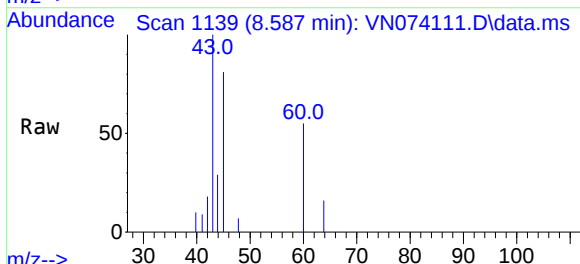
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-105S

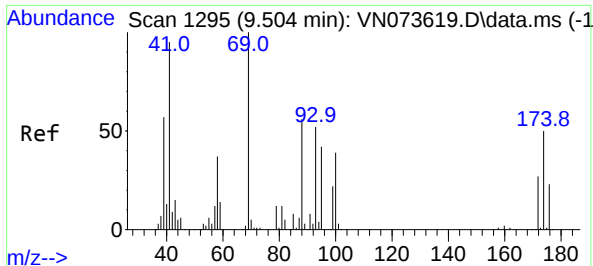
Tgt Ion:117 Resp: 56095  
Ion Ratio Lower Upper  
117 100  
119 5.9 75.8 113.8#  
121 0.0 24.6 37.0#



#43  
Isopropyl Acetate  
Concen: 0.669 ug/l  
RT: 8.587 min Scan# 1139  
Delta R.T. 0.095 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

Tgt Ion: 43 Resp: 8694  
Ion Ratio Lower Upper  
43 100  
61 0.0 21.9 32.9#  
87 0.0 12.0 18.0#

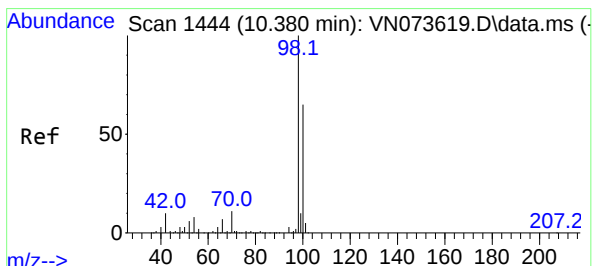
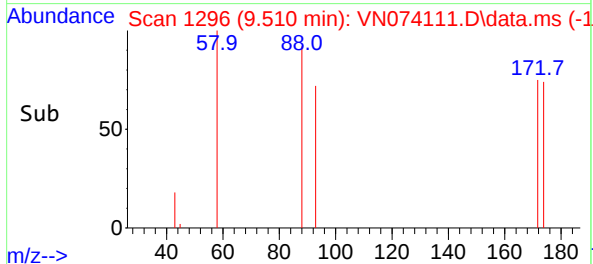
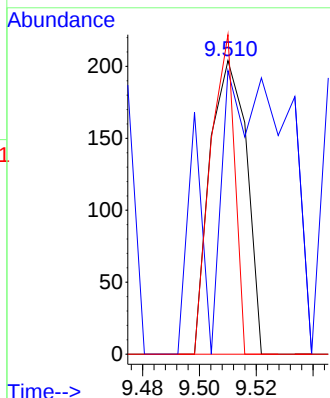
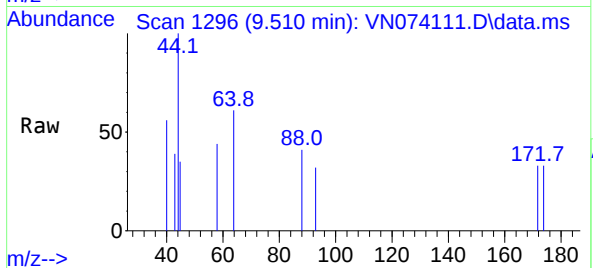




#49  
1,4-Dioxane  
Concen: 1.101 ug/l  
RT: 9.510 min Scan# 1295  
Delta R.T. 0.006 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

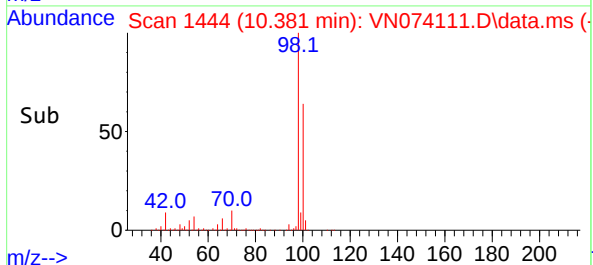
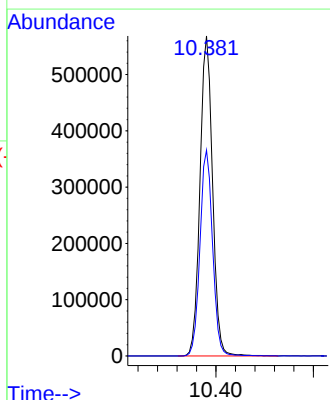
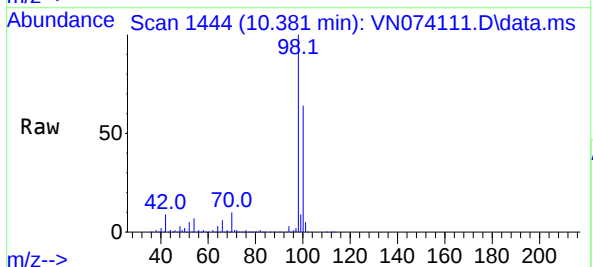
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-105S

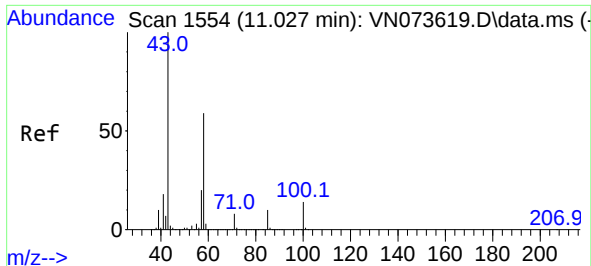
Tgt Ion: 88 Resp: 182  
Ion Ratio Lower Upper  
88 100  
43 201.6 20.2 30.4#  
58 72.0 54.2 81.4



#50  
Toluene-d8  
Concen: 48.376 ug/l  
RT: 10.381 min Scan# 1444  
Delta R.T. 0.001 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

Tgt Ion: 98 Resp: 1015785  
Ion Ratio Lower Upper  
98 100  
100 64.6 52.6 78.8

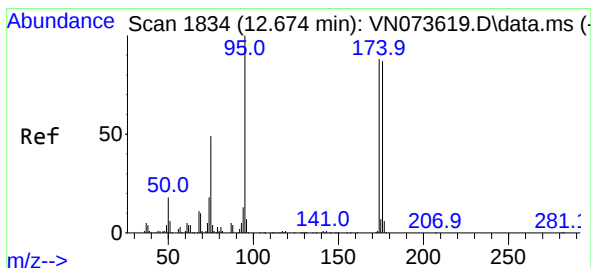
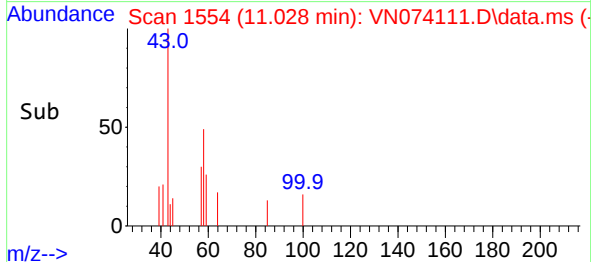
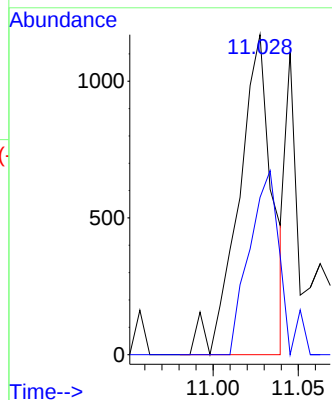
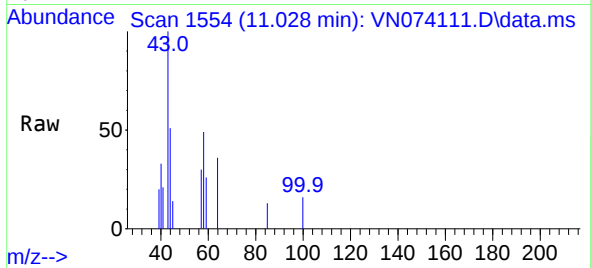




#59  
2-Hexanone  
Concen: 0.236 ug/l  
RT: 11.028 min Scan# 1554  
Delta R.T. 0.001 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

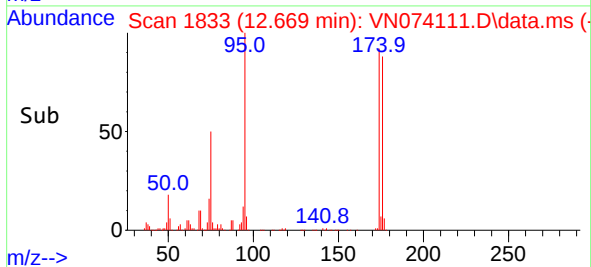
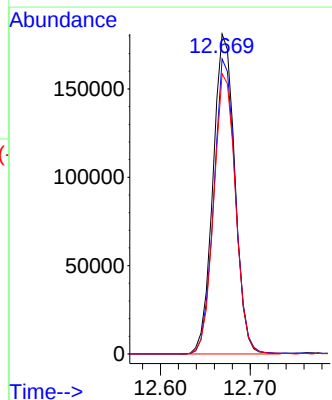
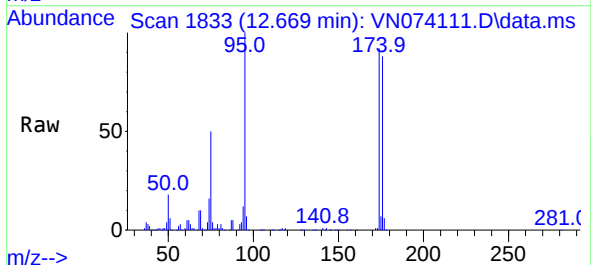
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-105S

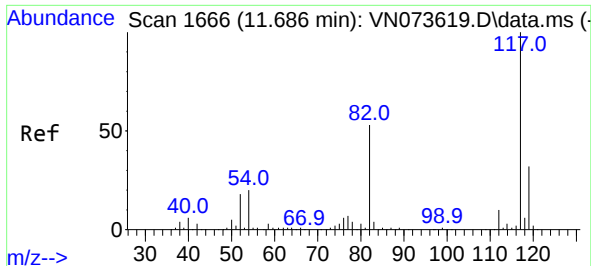
Tgt Ion: 43 Resp: 1597  
Ion Ratio Lower Upper  
43 100  
58 53.4 29.7 89.1



#62  
4-Bromofluorobenzene  
Concen: 43.874 ug/l  
RT: 12.669 min Scan# 1833  
Delta R.T. -0.005 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

Tgt Ion: 95 Resp: 305748  
Ion Ratio Lower Upper  
95 100  
174 91.0 0.0 167.6  
176 87.4 0.0 163.4

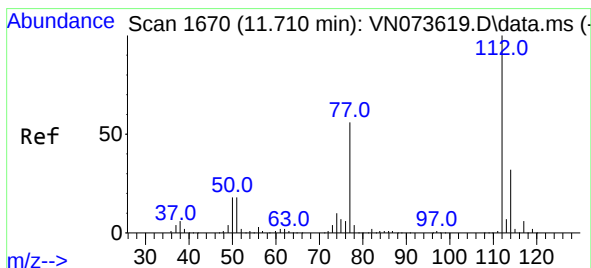
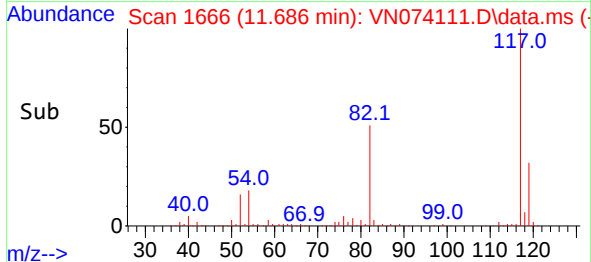
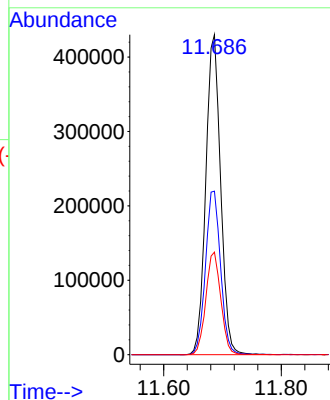
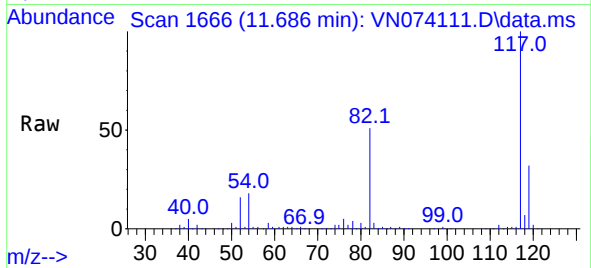




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.686 min Scan# 1666  
Delta R.T. 0.000 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

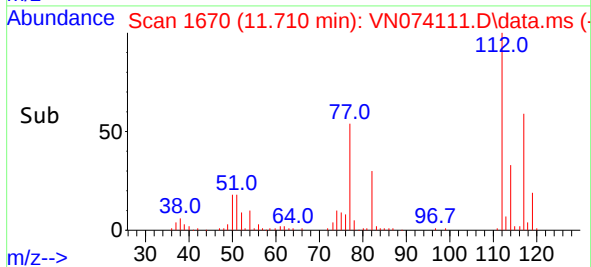
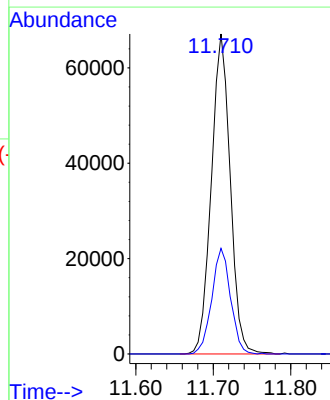
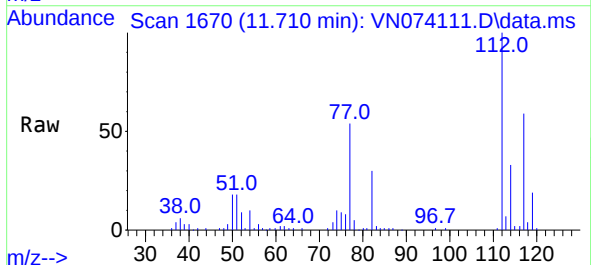
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-105S

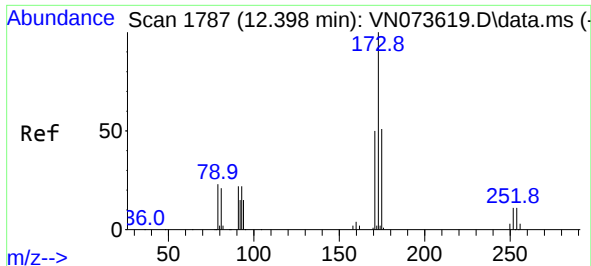
Tgt Ion:117 Resp: 749652  
Ion Ratio Lower Upper  
117 100  
82 51.1 44.2 66.2  
119 32.0 25.4 38.0



#65  
Chlorobenzene  
Concen: 7.141 ug/l  
RT: 11.710 min Scan# 1670  
Delta R.T. -0.000 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

Tgt Ion:112 Resp: 113777  
Ion Ratio Lower Upper  
112 100  
114 33.0 25.4 38.2

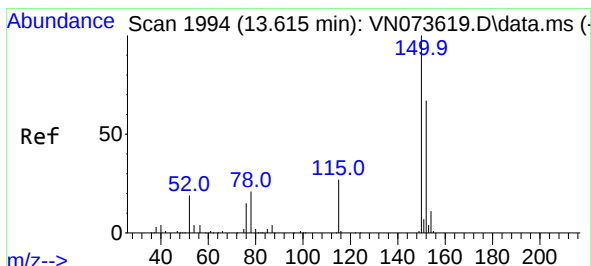
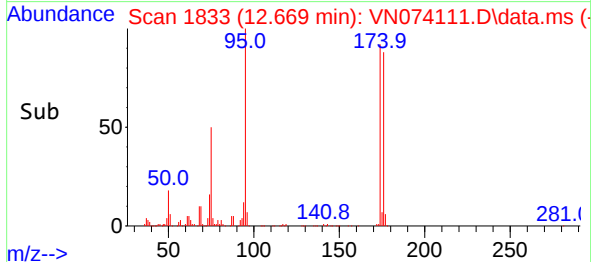
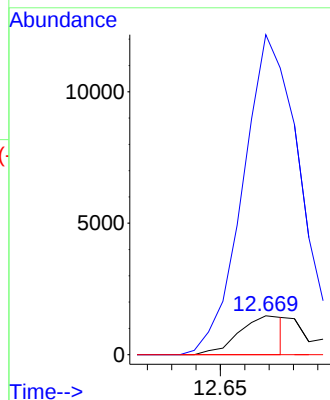
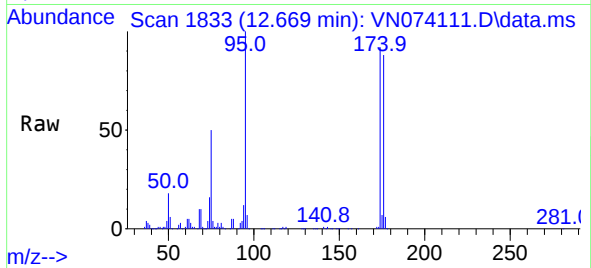




#71  
Bromoform  
Concen: 0.350 ug/l  
RT: 12.669 min Scan# 1833  
Delta R.T. 0.271 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

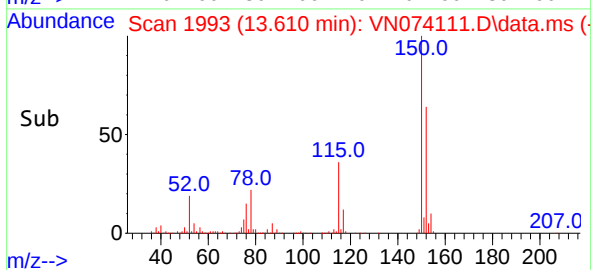
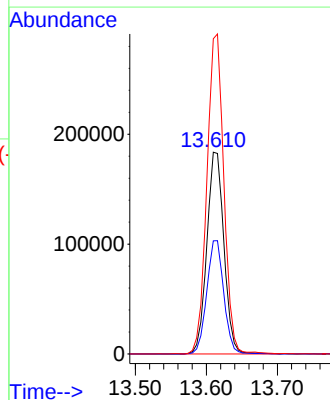
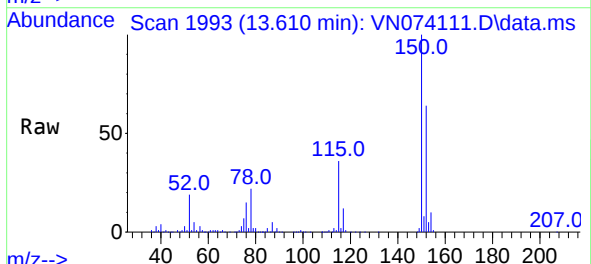
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-105S

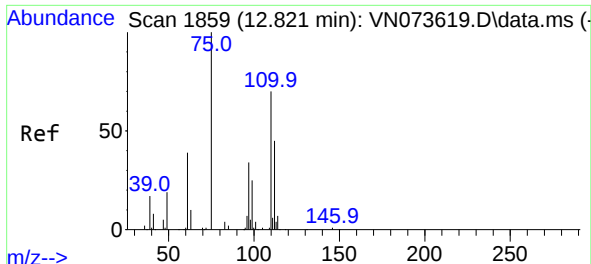
Tgt Ion:173 Resp: 1884  
Ion Ratio Lower Upper  
173 100  
175 749.9 24.6 73.6#  
254 0.0 0.1 0.1#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.610 min Scan# 1993  
Delta R.T. -0.005 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

Tgt Ion:152 Resp: 307733  
Ion Ratio Lower Upper  
152 100  
115 55.9 28.9 86.7  
150 157.2 0.0 356.2

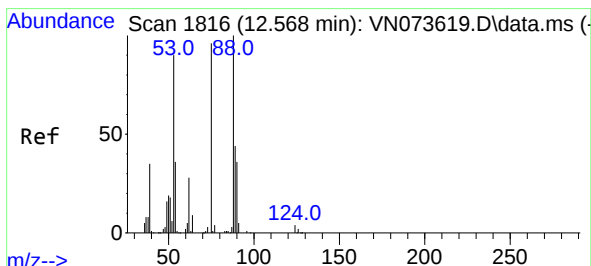
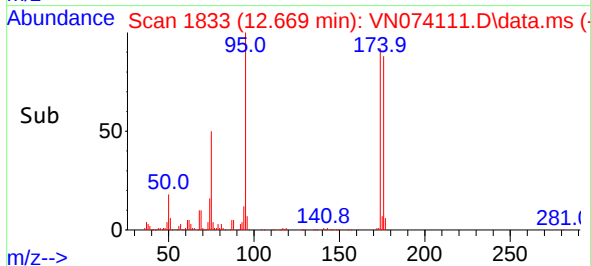
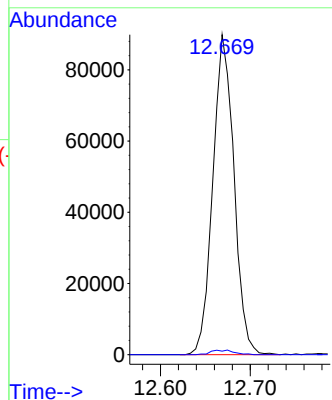
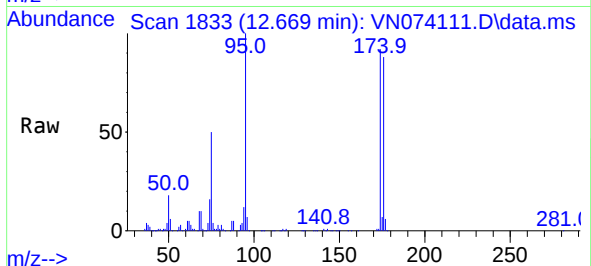




#76  
1,2,3-Trichloropropane  
Concen: 22.978 ug/l  
RT: 12.669 min Scan# 1833  
Delta R.T. -0.152 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

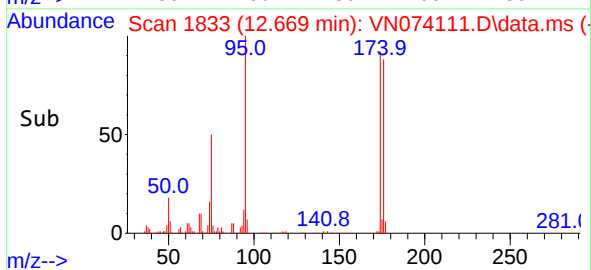
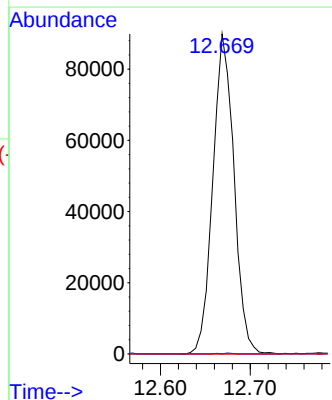
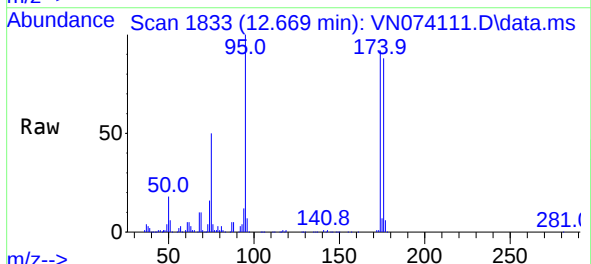
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-105S

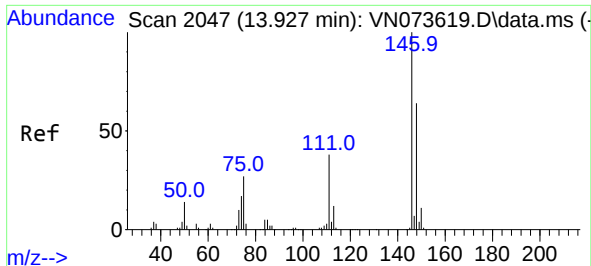
Tgt Ion: 75 Resp: 146971  
Ion Ratio Lower Upper  
75 100  
77 1.6 98.5 295.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 65.353 ug/l  
RT: 12.669 min Scan# 1833  
Delta R.T. 0.101 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

Tgt Ion: 75 Resp: 146971  
Ion Ratio Lower Upper  
75 100  
53 0.1 78.0 117.0#  
89 0.0 37.2 55.8#





#91

1,2-Dichlorobenzene

Concen: 0.372 ug/l

RT: 13.927 min Scan# 2047

Delta R.T. 0.000 min

Lab File: VN074111.D

Acq: 25 Aug 2022 13:55

Instrument :

MSVOA\_N

ClientSampleId :

MW-105S

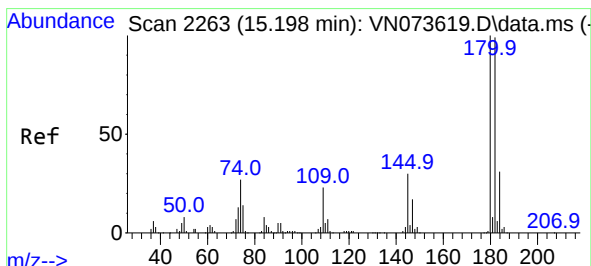
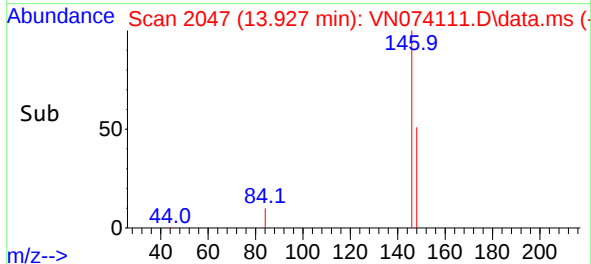
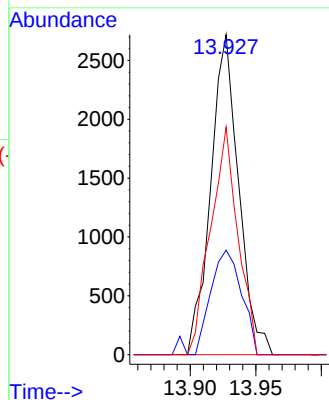
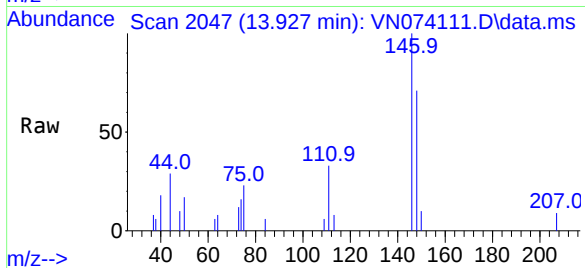
Tgt Ion:146 Resp: 4040

Ion Ratio Lower Upper

146 100

111 35.9 20.9 62.8

148 69.5 32.1 96.3



#93

1,2,4-Trichlorobenzene

Concen: 0.375 ug/l

RT: 15.192 min Scan# 2262

Delta R.T. -0.006 min

Lab File: VN074111.D

Acq: 25 Aug 2022 13:55

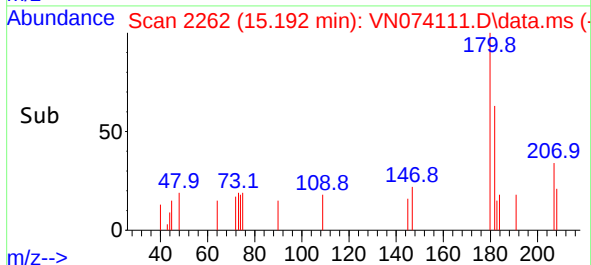
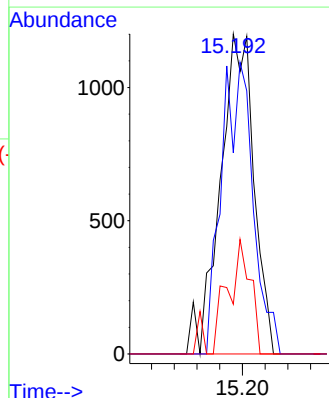
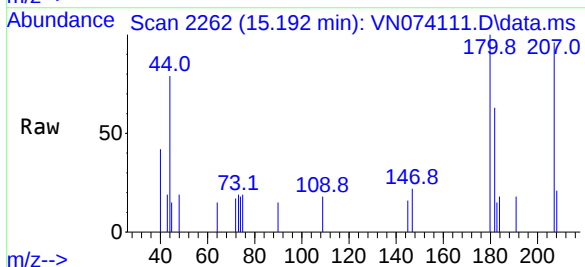
Tgt Ion:180 Resp: 2482

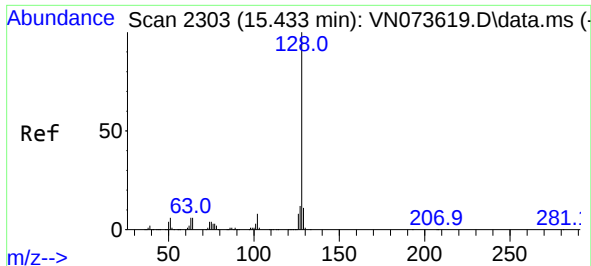
Ion Ratio Lower Upper

180 100

182 85.1 47.5 142.5

145 23.9 14.5 43.5

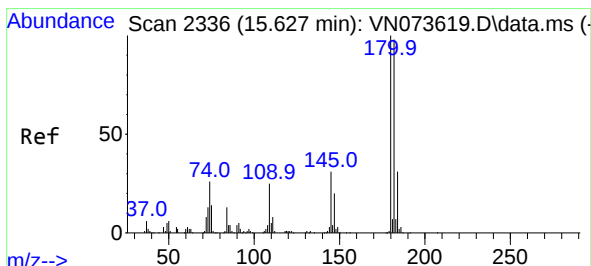
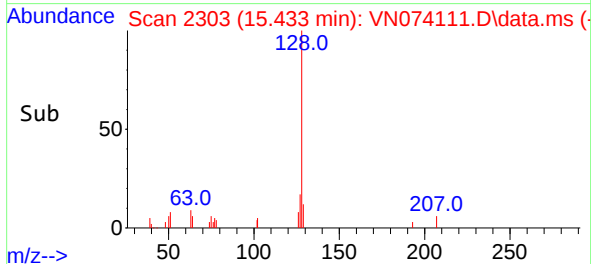
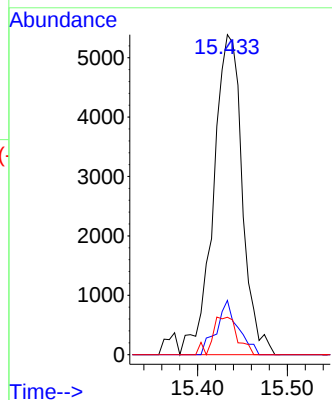
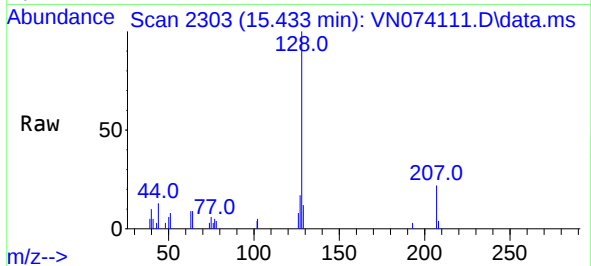




#95  
Naphthalene  
Concen: 0.557 ug/l  
RT: 15.433 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-105S

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 12007 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 12.6  | 10.3  | 15.5  |
| 129      | 10.1  | 8.6   | 13.0  |



#96  
1,2,3-Trichlorobenzene  
Concen: 0.407 ug/l  
RT: 15.621 min Scan# 2335  
Delta R.T. -0.006 min  
Lab File: VN074111.D  
Acq: 25 Aug 2022 13:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 2781  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 101.1 | 47.8  | 143.3 |
| 145      | 33.4  | 15.5  | 46.5  |

