

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090122\  
 Data File : VN074245.D  
 Acq On : 01 Sep 2022 16:19  
 Operator : JC\MD  
 Sample : N4329-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-3R

Quant Time: Sep 02 05:39:34 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N083022W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 31 07:02:40 2022  
 Response via : Initial Calibration

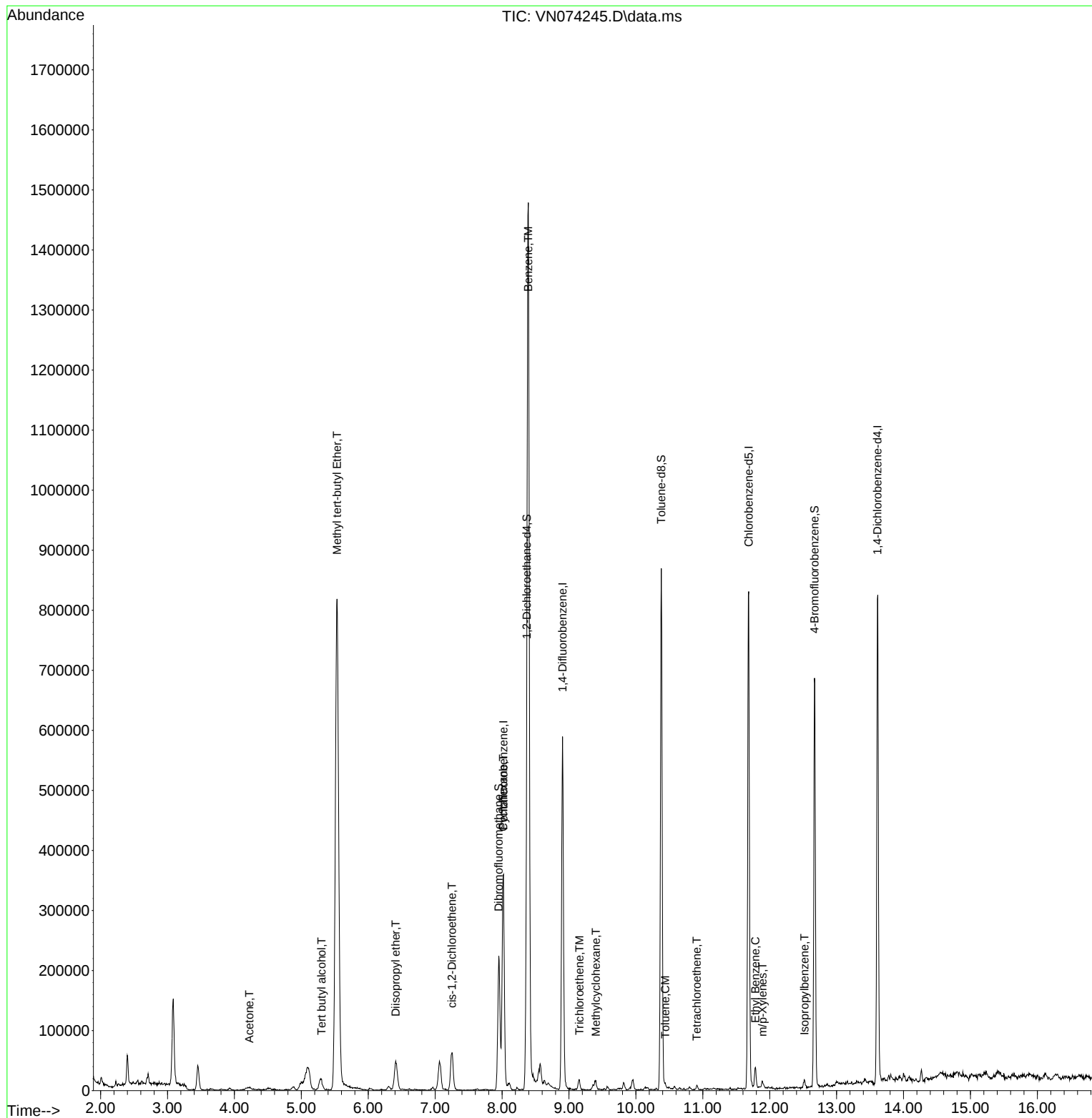
| Compound                    | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|----------|--------|----------|
| -----                       |                |      |            |          |        |          |
| Internal Standards          |                |      |            |          |        |          |
| 1) Pentafluorobenzene       | 8.022          | 168  | 252602     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.904          | 114  | 467027     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.686         | 117  | 452425     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.610         | 152  | 195894     | 50.000   | ug/l   | 0.00     |
|                             |                |      |            |          |        |          |
| System Monitoring Compounds |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.369          | 65   | 190681     | 48.662   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 74 - 125 |      | Recovery = | 97.320%  |        |          |
| 35) Dibromofluoromethane    | 7.951          | 113  | 154325     | 50.781   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 75 - 124 |      | Recovery = | 101.560% |        |          |
| 50) Toluene-d8              | 10.380         | 98   | 561206     | 46.892   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 86 - 113 |      | Recovery = | 93.780%  |        |          |
| 62) 4-Bromofluorobenzene    | 12.668         | 95   | 214851     | 59.032   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 83 - 123 |      | Recovery = | 118.060% |        |          |
|                             |                |      |            |          |        |          |
| Target Compounds            |                |      |            |          | Qvalue |          |
| 11) Tert butyl alcohol      | 5.304          | 59   | 31842      | 29.217   | ug/l # | 72       |
| 16) Acetone                 | 4.222          | 43   | 8240       | 3.147    | ug/l # | 83       |
| 19) Methyl tert-butyl Ether | 5.534          | 73   | 1277410    | 116.606  | ug/l   | 93       |
| 22) Diisopropyl ether       | 6.410          | 45   | 62745      | 4.663    | ug/l # | 89       |
| 27) cis-1,2-Dichloroethene  | 7.251          | 96   | 37479      | 9.816    | ug/l   | 95       |
| 31) Cyclohexane             | 8.016          | 56   | 17254      | 2.665    | ug/l # | 84       |
| 39) Methylcyclohexane       | 9.404          | 83   | 6277       | 1.084    | ug/l # | 79       |
| 40) Benzene                 | 8.392          | 78   | 1396368    | 90.190   | ug/l   | 100      |
| 44) Trichloroethene         | 9.157          | 130  | 5175       | 1.496    | ug/l   | 76       |
| 52) Toluene                 | 10.439         | 92   | 2128       | 0.233    | ug/l   | 84       |
| 64) Tetrachloroethene       | 10.910         | 164  | 1592       | 0.486    | ug/l # | 61       |
| 67) Ethyl Benzene           | 11.786         | 91   | 22623      | 1.238    | ug/l # | 82       |
| 68) m/p-Xylenes             | 11.892         | 106  | 3279       | 0.483    | ug/l   | 85       |
| 73) Isopropylbenzene        | 12.521         | 105  | 8355       | 0.498    | ug/l   | 92       |
| -----                       |                |      |            |          |        |          |

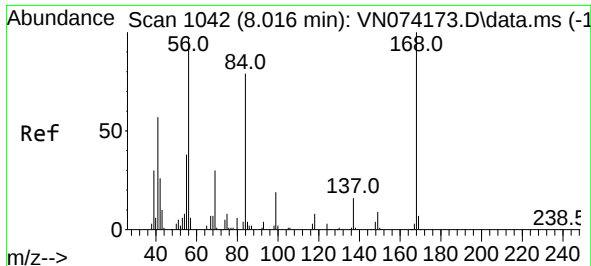
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090122\  
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MSVOA\_N  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N083022W.M  
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QLast Update : Wed Aug 31 07:02:40 2022  
Response via : Initial Calibration

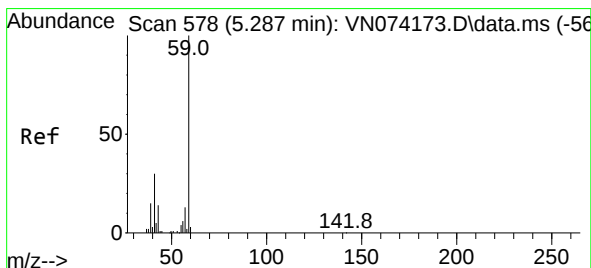
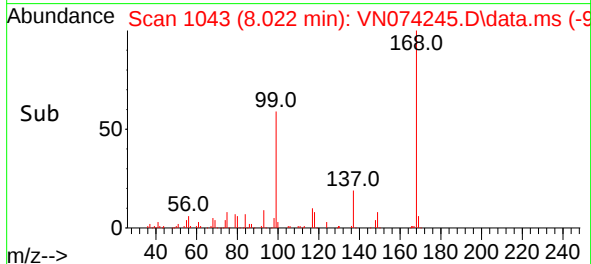
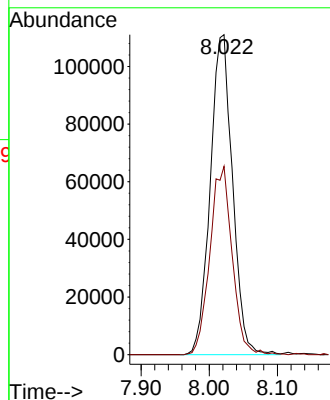
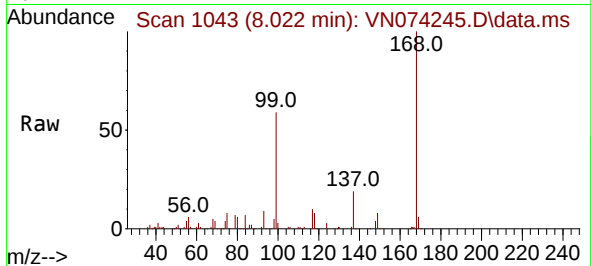




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.022 min Scan# 1043  
Delta R.T. 0.006 min  
Lab File: VN074245.D  
Acq: 01 Sep 2022 16:19

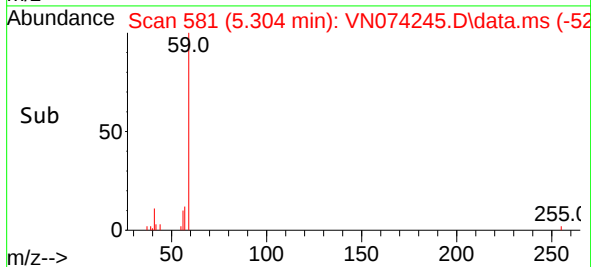
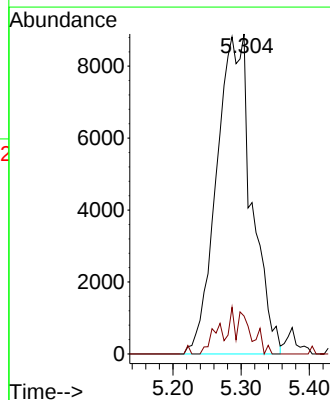
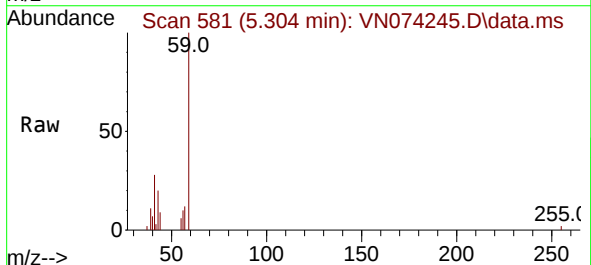
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-3R

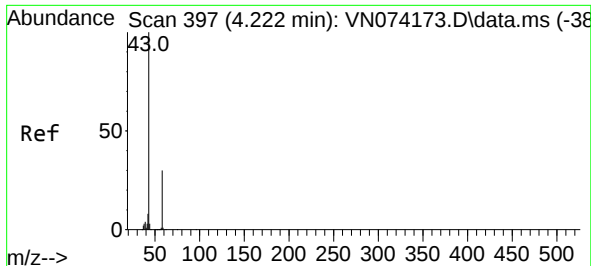
Tgt Ion:168 Resp: 252602  
Ion Ratio Lower Upper  
168 100  
99 58.8 42.3 63.5



#11  
Tert butyl alcohol  
Concen: 29.217 ug/l  
RT: 5.304 min Scan# 581  
Delta R.T. 0.017 min  
Lab File: VN074245.D  
Acq: 01 Sep 2022 16:19

Tgt Ion: 59 Resp: 31842  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#

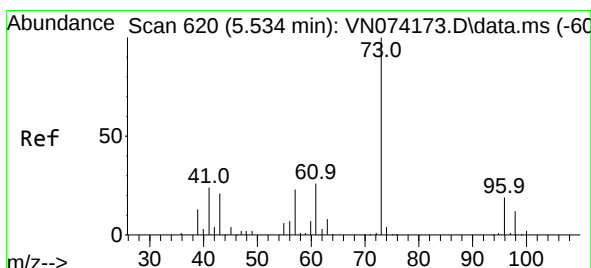
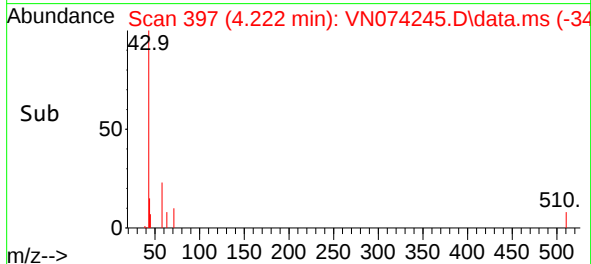
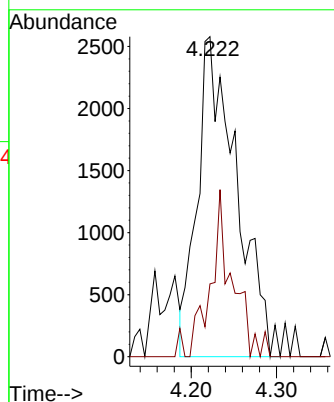
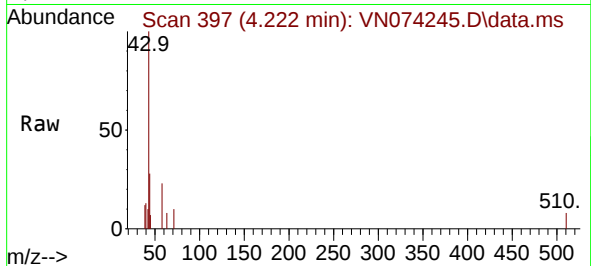




#16  
Acetone  
Concen: 3.147 ug/l  
RT: 4.222 min Scan# 397  
Delta R.T. -0.000 min  
Lab File: VN074245.D  
Acq: 01 Sep 2022 16:19

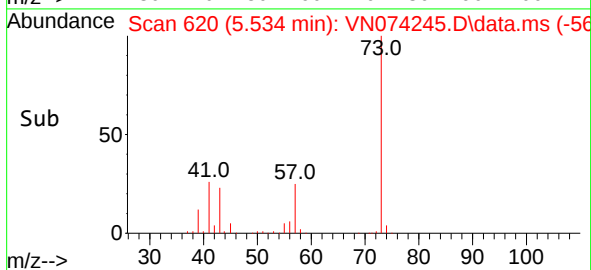
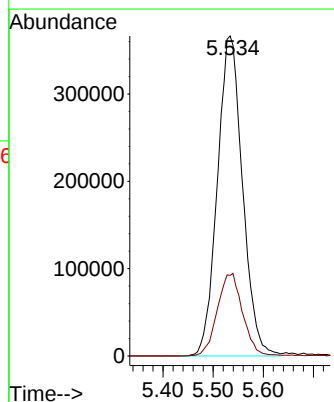
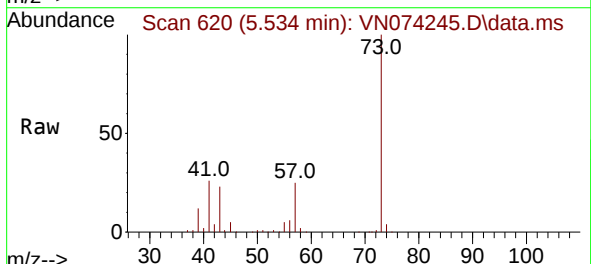
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-3R

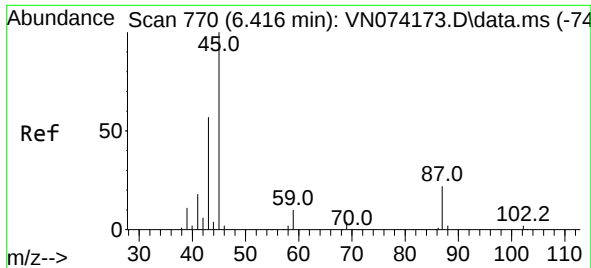
Tgt Ion: 43 Resp: 8240  
Ion Ratio Lower Upper  
43 100  
58 22.8 26.0 39.0#



#19  
Methyl tert-butyl Ether  
Concen: 116.606 ug/l  
RT: 5.534 min Scan# 620  
Delta R.T. -0.000 min  
Lab File: VN074245.D  
Acq: 01 Sep 2022 16:19

Tgt Ion: 73 Resp: 1277410  
Ion Ratio Lower Upper  
73 100  
57 25.2 17.6 26.4

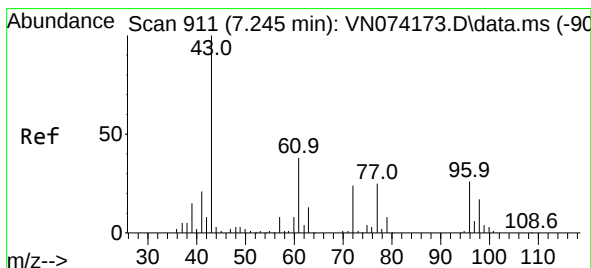
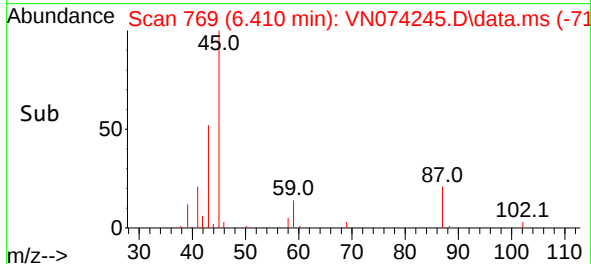
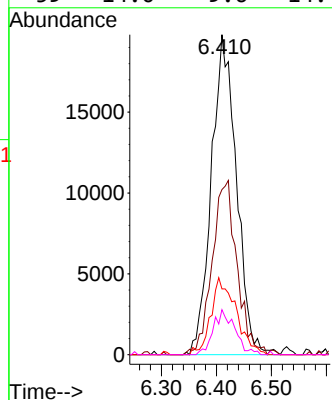
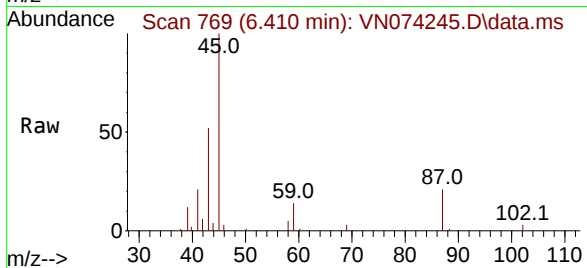




#22  
Diisopropyl ether  
Concen: 4.663 ug/l  
RT: 6.410 min Scan# 770  
Delta R.T. -0.006 min  
Lab File: VN074245.D  
Acq: 01 Sep 2022 16:19

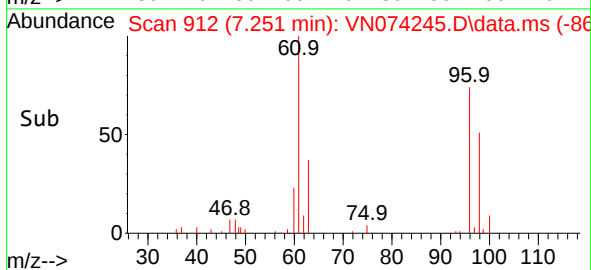
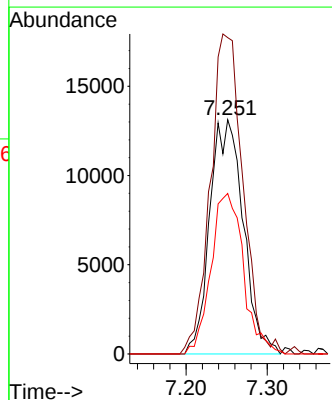
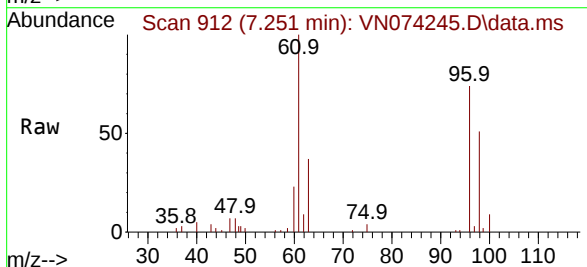
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-3R

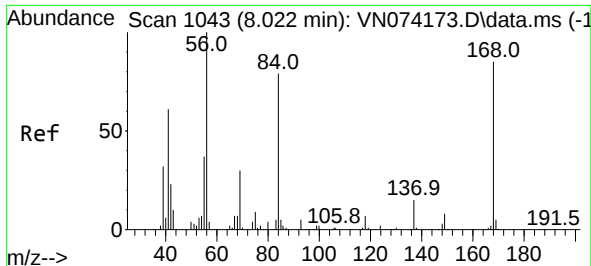
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 45    | Resp: | 62745 |
| Ion      | Ratio | Lower | Upper |
| 45       | 100   |       |       |
| 43       | 51.6  | 46.6  | 70.0  |
| 87       | 20.5  | 24.3  | 36.5  |
| 59       | 14.0  | 9.6   | 14.4  |



#27  
cis-1,2-Dichloroethene  
Concen: 9.816 ug/l  
RT: 7.251 min Scan# 912  
Delta R.T. 0.006 min  
Lab File: VN074245.D  
Acq: 01 Sep 2022 16:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 37479 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 133.0 | 0.0   | 280.6 |
| 98       | 66.7  | 0.0   | 128.4 |

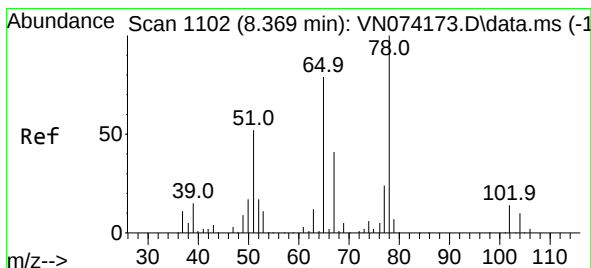
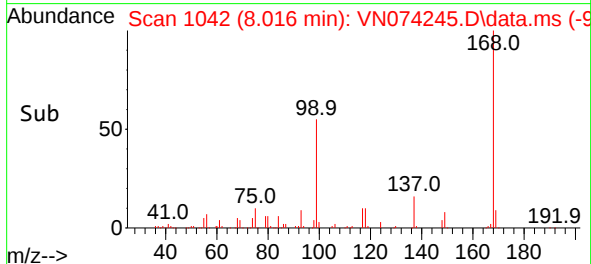
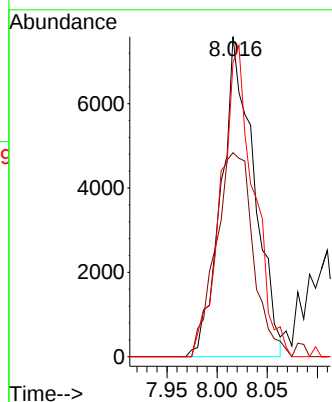
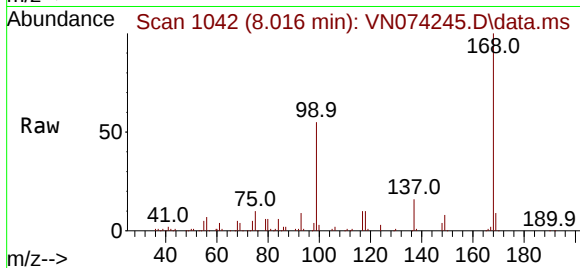




#31  
Cyclohexane  
Concen: 2.665 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. -0.006 min  
Lab File: VN074245.D  
Acq: 01 Sep 2022 16:19

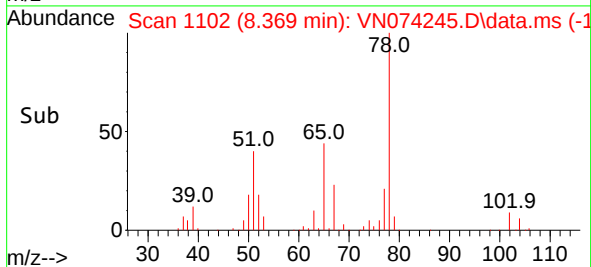
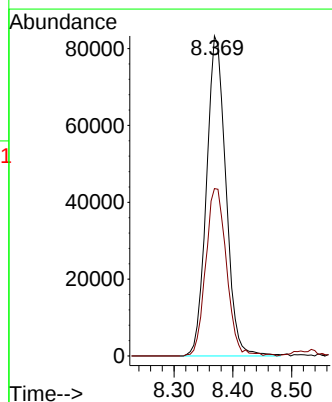
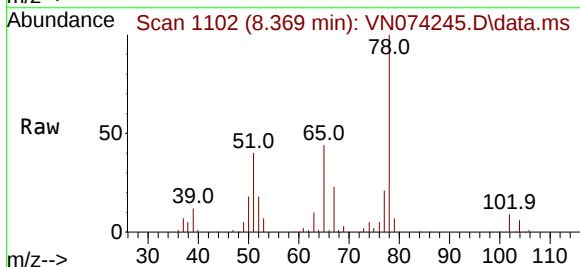
Instrument :  
MSVOA\_N  
ClientSampleId :  
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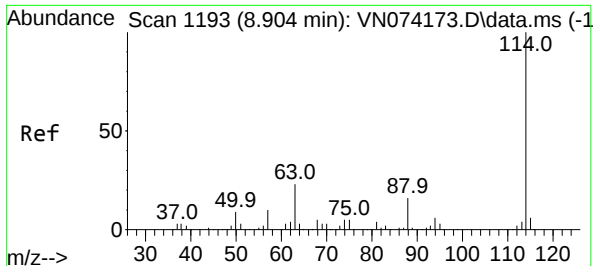
Tgt Ion: 56 Resp: 17254  
Ion Ratio Lower Upper  
56 100  
69 63.8 27.8 41.8#  
84 91.9 76.9 115.3



#33  
1,2-Dichloroethane-d4  
Concen: 48.662 ug/l  
RT: 8.369 min Scan# 1102  
Delta R.T. -0.000 min  
Lab File: VN074245.D  
Acq: 01 Sep 2022 16:19

Tgt Ion: 65 Resp: 190681  
Ion Ratio Lower Upper  
65 100  
67 56.0 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: VN074245.D

Acq: 01 Sep 2022 16:19

Instrument :

MSVOA\_N

ClientSampleId :

MW-3R

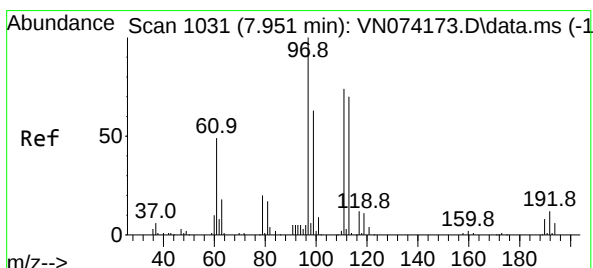
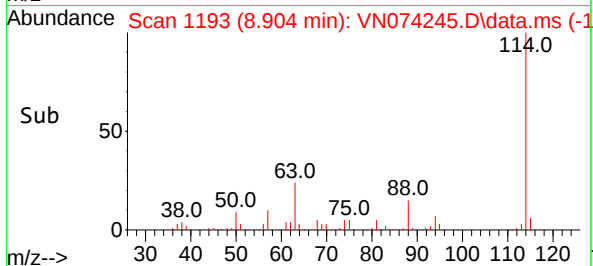
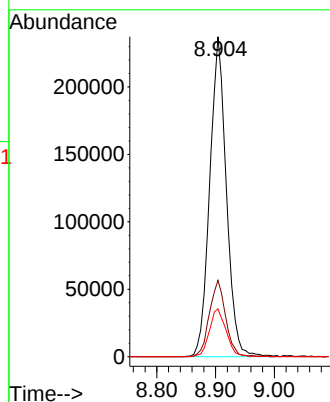
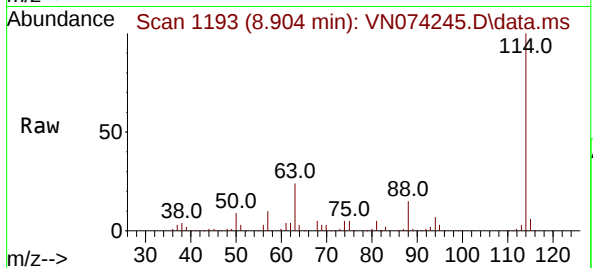
Tgt Ion:114 Resp: 467027

Ion Ratio Lower Upper

114 100

63 23.9 0.0 40.0

88 14.9 0.0 32.6



#35

Dibromofluoromethane

Concen: 50.781 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VN074245.D

Acq: 01 Sep 2022 16:19

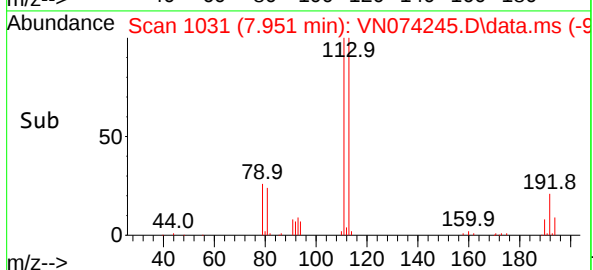
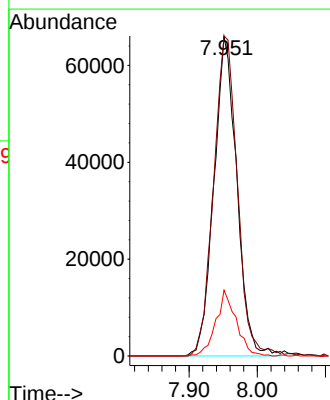
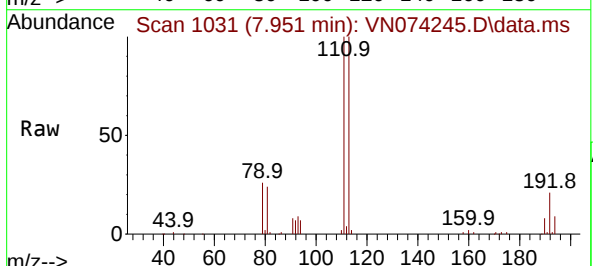
Tgt Ion:113 Resp: 154325

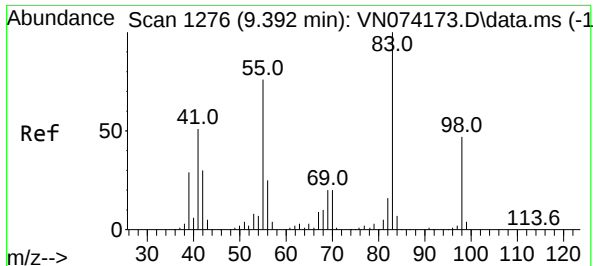
Ion Ratio Lower Upper

113 100

111 104.4 81.4 122.0

192 18.3 17.0 25.6





#39

Methylcyclohexane

Concen: 1.084 ug/l

RT: 9.404 min Scan# 1127

Delta R.T. 0.012 min

Lab File: VN074245.D

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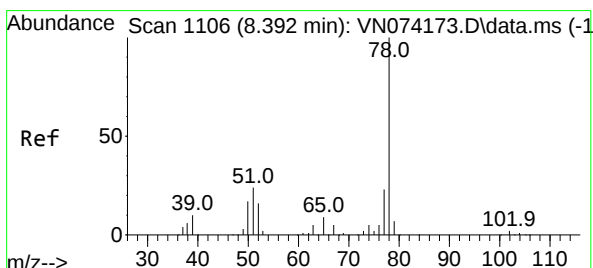
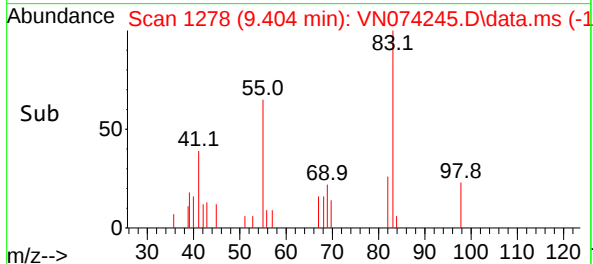
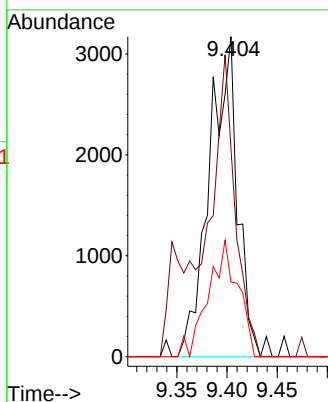
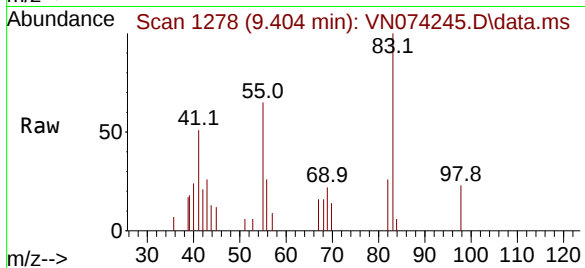
Tgt Ion: 83 Resp: 6277

Ion Ratio Lower Upper

83 100

55 65.0 57.8 86.8

98 23.3 39.4 59.2#



#40

Benzene

Concen: 90.190 ug/l

RT: 8.392 min Scan# 1106

Delta R.T. -0.000 min

Lab File: VN074245.D

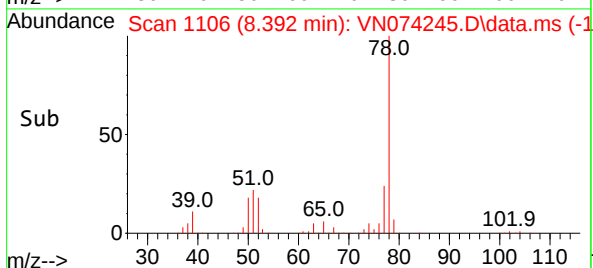
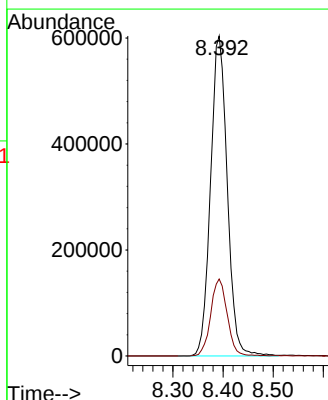
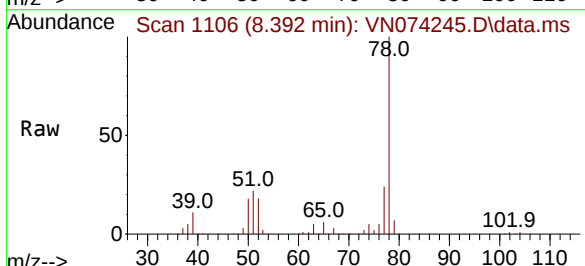
Acq: 01 Sep 2022 16:19

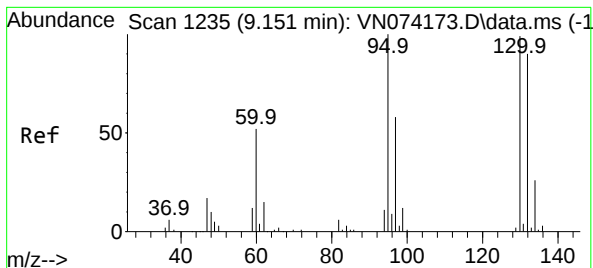
Tgt Ion: 78 Resp: 1396368

Ion Ratio Lower Upper

78 100

77 24.1 19.4 29.0





#44

Trichloroethene

Concen: 1.496 ug/l

RT: 9.157 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN074245.D

Acq: 01 Sep 2022 16:19

Instrument :

MSVOA\_N

ClientSampleId :

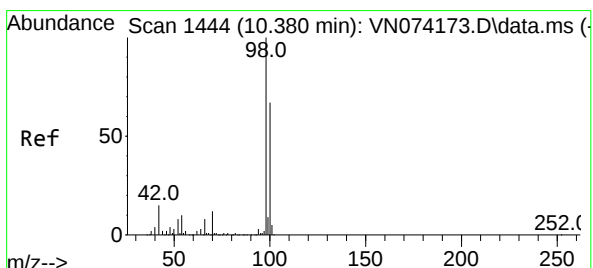
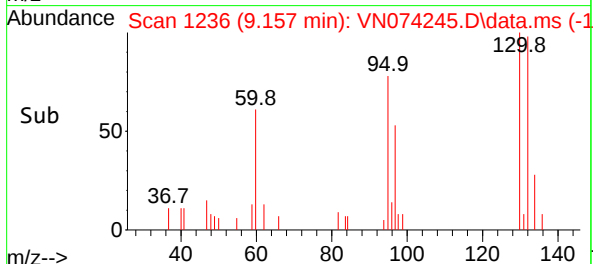
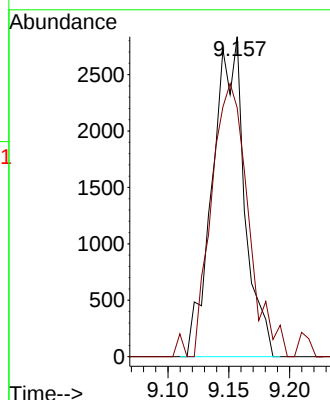
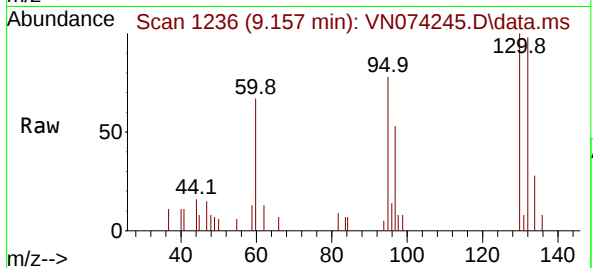
MW-3R

Tgt Ion:130 Resp: 5175

Ion Ratio Lower Upper

130 100

95 70.6 0.0 186.8



#50

Toluene-d8

Concen: 46.892 ug/l

RT: 10.380 min Scan# 1444

Delta R.T. -0.000 min

Lab File: VN074245.D

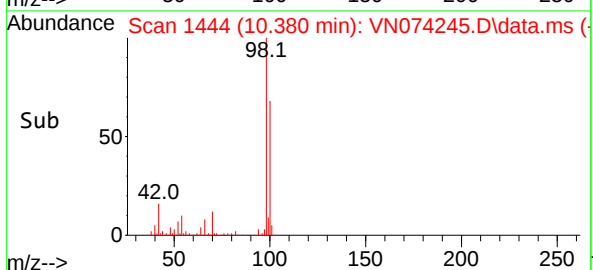
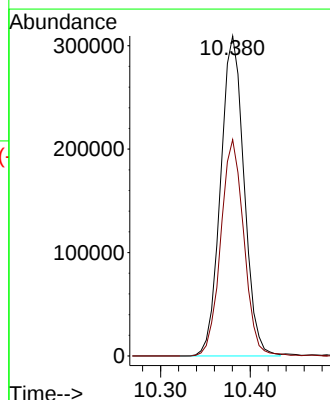
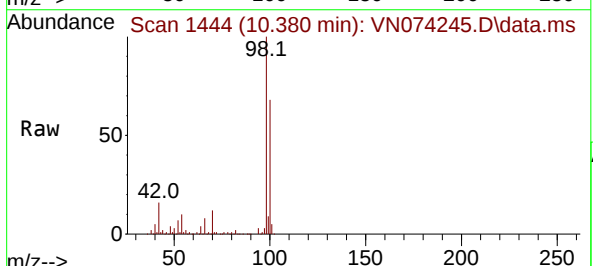
Acq: 01 Sep 2022 16:19

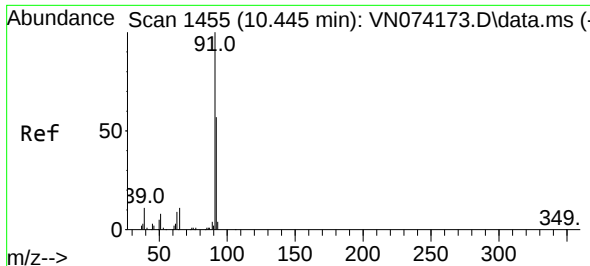
Tgt Ion: 98 Resp: 561206

Ion Ratio Lower Upper

98 100

100 66.7 52.6 78.8

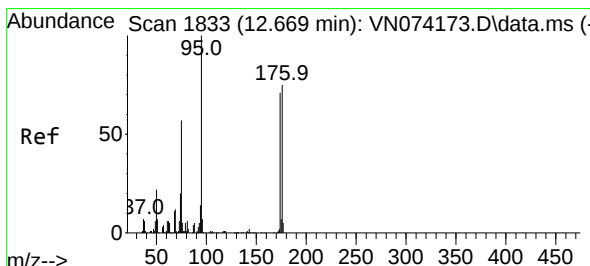
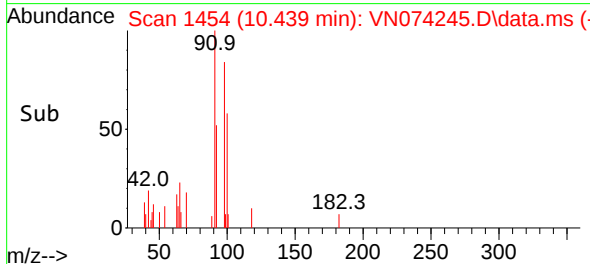
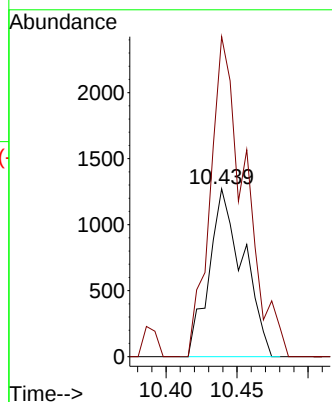
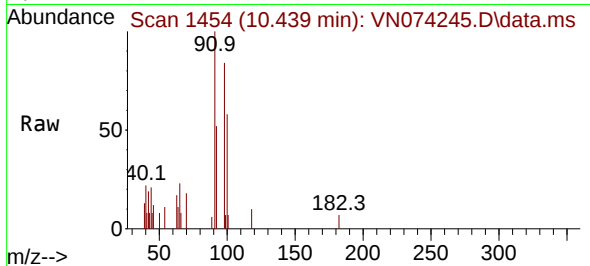




#52  
Toluene  
Concen: 0.233 ug/l  
RT: 10.439 min Scan# 1455  
Delta R.T. -0.006 min  
Lab File: VN074245.D  
Acq: 01 Sep 2022 16:19

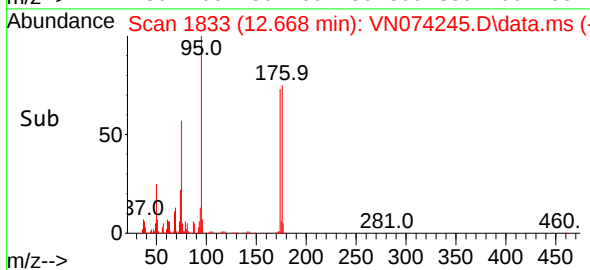
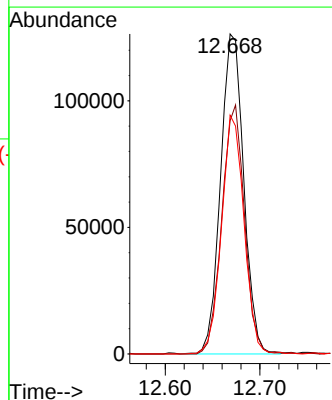
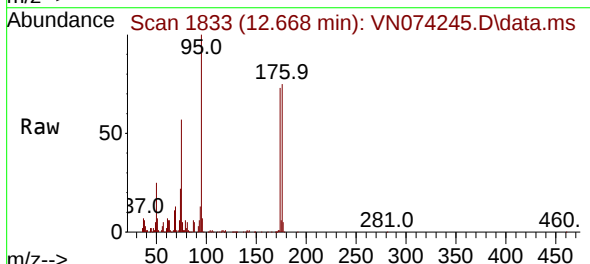
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-3R

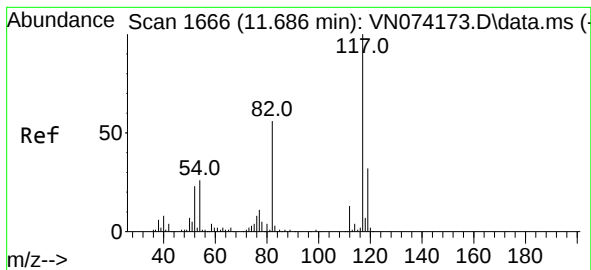
Tgt Ion: 92 Resp: 2128  
Ion Ratio Lower Upper  
92 100  
91 194.9 138.6 207.8



#62  
4-Bromofluorobenzene  
Concen: 59.032 ug/l  
RT: 12.668 min Scan# 1833  
Delta R.T. -0.000 min  
Lab File: VN074245.D  
Acq: 01 Sep 2022 16:19

Tgt Ion: 95 Resp: 214851  
Ion Ratio Lower Upper  
95 100  
174 76.3 0.0 167.6  
176 72.5 0.0 163.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.686 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN074245.D

Acq: 01 Sep 2022 16:19

Instrument :

MSVOA\_N

ClientSampleId :

MW-3R

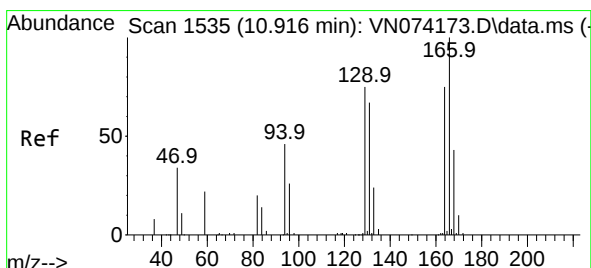
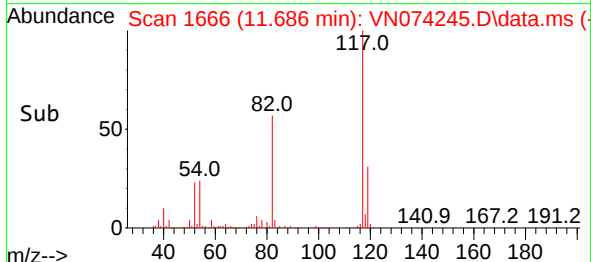
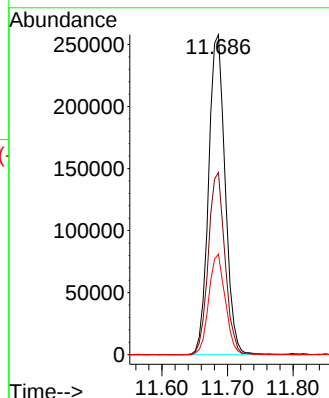
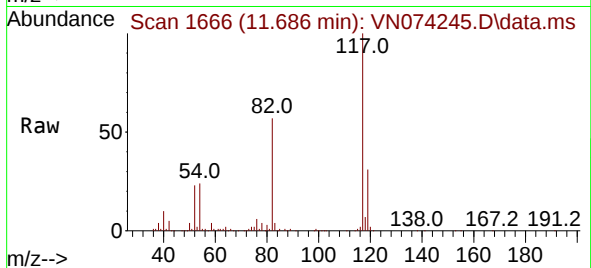
Tgt Ion:117 Resp: 452425

Ion Ratio Lower Upper

117 100

82 56.9 44.2 66.2

119 31.5 25.4 38.0



#64

Tetrachloroethene

Concen: 0.486 ug/l

RT: 10.910 min Scan# 1534

Delta R.T. -0.006 min

Lab File: VN074245.D

Acq: 01 Sep 2022 16:19

Tgt Ion:164 Resp: 1592

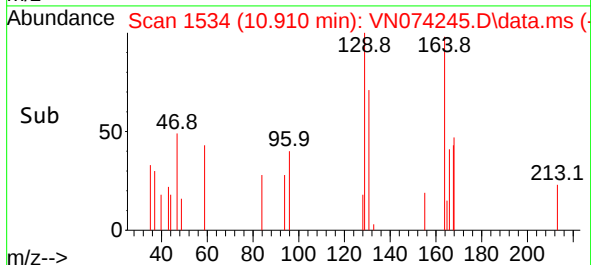
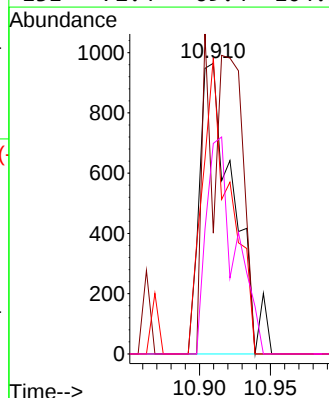
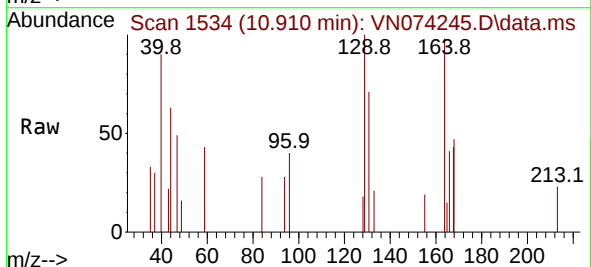
Ion Ratio Lower Upper

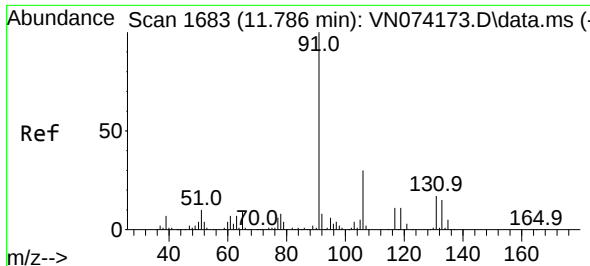
164 100

166 41.6 104.2 156.2#

129 101.9 73.9 110.9

131 72.4 69.4 104.2

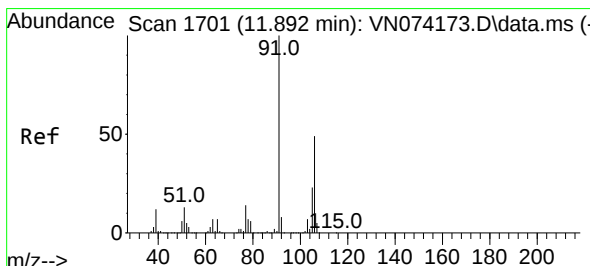
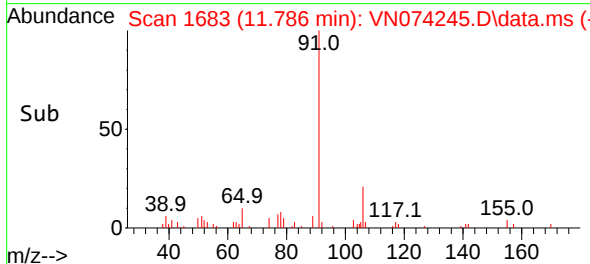
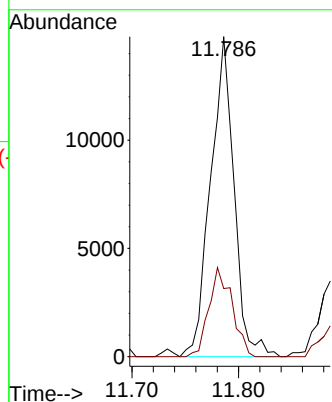
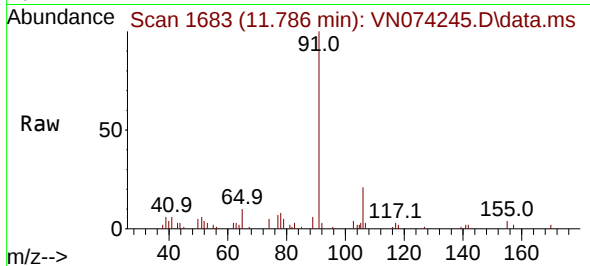




#67  
Ethyl Benzene  
Concen: 1.238 ug/l  
RT: 11.786 min Scan# 1170  
Delta R.T. -0.000 min  
Lab File: VN074245.D  
Acq: 01 Sep 2022 16:19

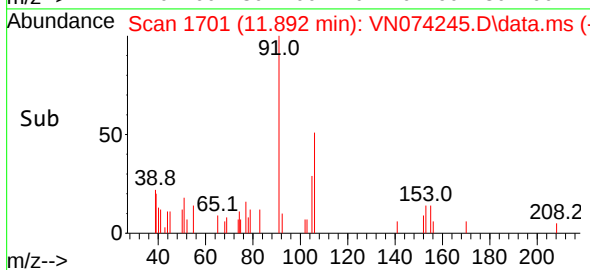
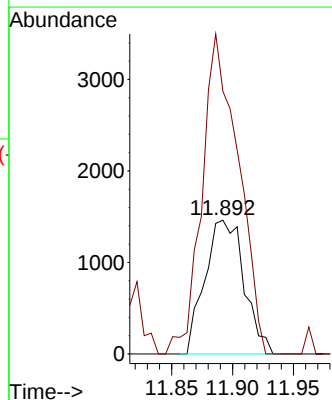
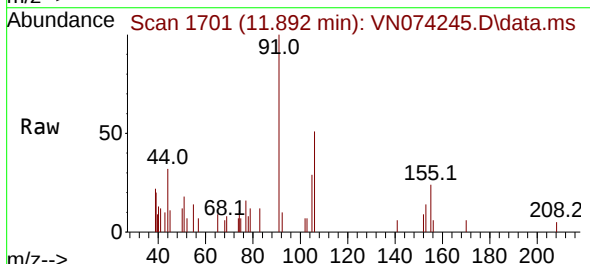
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-3R

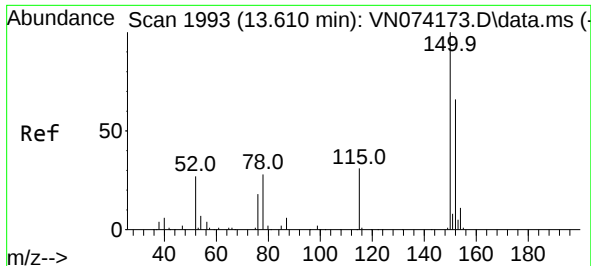
Tgt Ion: 91 Resp: 22623  
Ion Ratio Lower Upper  
91 100  
106 21.3 24.9 37.3#



#68  
m/p-Xylenes  
Concen: 0.483 ug/l  
RT: 11.892 min Scan# 1701  
Delta R.T. -0.000 min  
Lab File: VN074245.D  
Acq: 01 Sep 2022 16:19

Tgt Ion: 106 Resp: 3279  
Ion Ratio Lower Upper  
106 100  
91 221.5 158.9 238.3



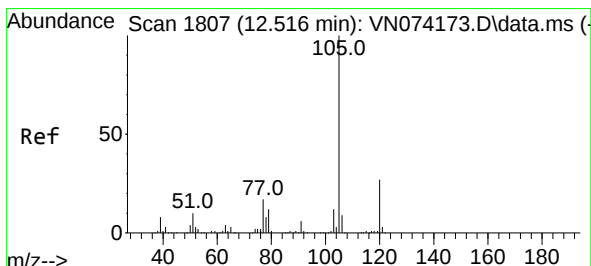
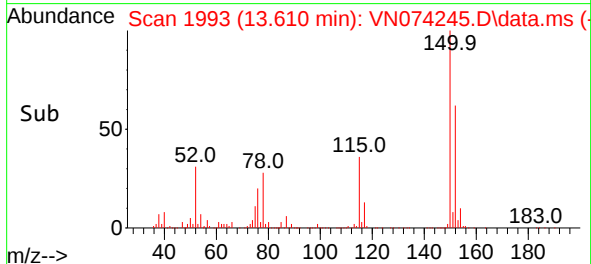
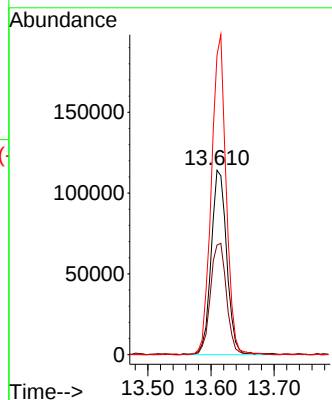
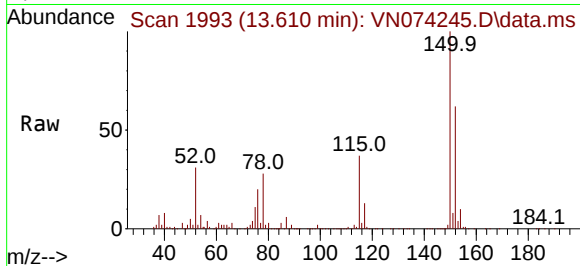


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.610 min Scan# 1993  
 Delta R.T. -0.000 min  
 Lab File: VN074245.D  
 Acq: 01 Sep 2022 16:19

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-3R

Tgt Ion:152 Resp: 195894  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 62.1  | 28.9  | 86.7  |
| 150 | 163.3 | 0.0   | 356.2 |



#73  
 Isopropylbenzene  
 Concen: 0.498 ug/l  
 RT: 12.521 min Scan# 1808  
 Delta R.T. 0.006 min  
 Lab File: VN074245.D  
 Acq: 01 Sep 2022 16:19

Tgt Ion:105 Resp: 8355  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 22.5  | 13.5  | 40.4  |

