

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091322\  
 Data File : VN074444.D  
 Acq On : 13 Sep 2022 19:45  
 Operator : JC\MD  
 Sample : N4492-15  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BR-02-123-143-090122-H

Quant Time: Sep 14 08:05:17 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N090922W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 10 06:10:29 2022  
 Response via : Initial Calibration

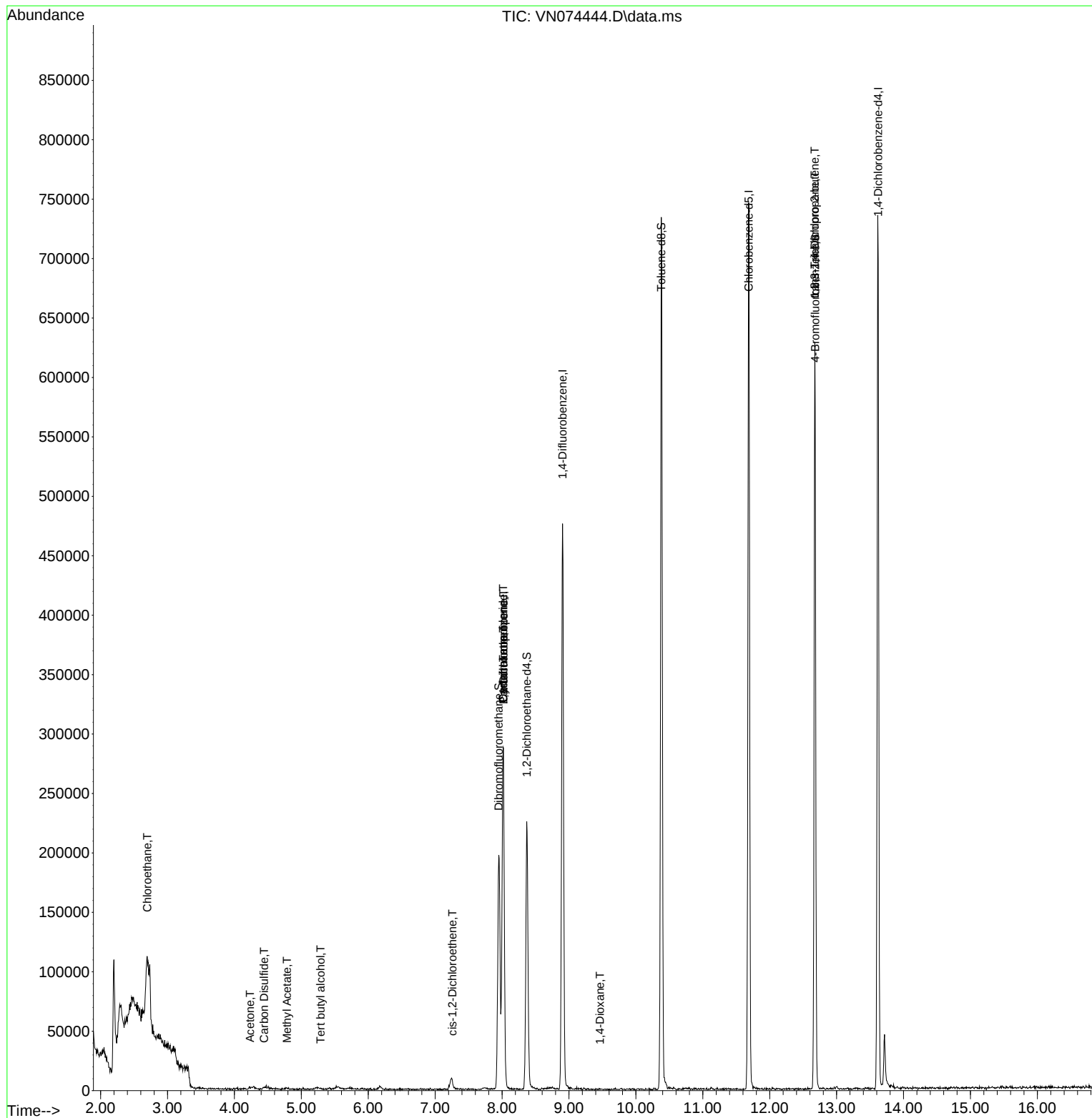
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 8.022          | 168  | 198761     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.904          | 114  | 381413     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.686         | 117  | 368298     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.621         | 152  | 169093     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.369          | 65   | 170453     | 49.567    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 99.140%   |        |          |
| 35) Dibromofluoromethane      | 7.951          | 113  | 135585     | 52.656    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 105.320%  |        |          |
| 50) Toluene-d8                | 10.380         | 98   | 459743     | 45.823    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 91.640%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.680         | 95   | 184310     | 50.598    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 101.200%  |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 3) Chloromethane              | 2.263          | 50   | 1271       | Below Cal | #      | 31       |
| 6) Chloroethane               | 2.699          | 64   | 38540      | 11.104    | ug/l # | 54       |
| 11) Tert butyl alcohol        | 5.287          | 59   | 398        | 0.442     | ug/l # | 71       |
| 16) Acetone                   | 4.234          | 43   | 1806       | 0.973     | ug/l # | 76       |
| 17) Carbon Disulfide          | 4.445          | 76   | 3800       | 0.564     | ug/l # | 77       |
| 18) Methyl Acetate            | 4.787          | 43   | 1579       | 0.289     | ug/l # | 63       |
| 20) Methylene Chloride        | 4.992          | 84   | 92         | Below Cal | #      | 3        |
| 27) cis-1,2-Dichloroethene    | 7.257          | 96   | 1092       | 0.319     | ug/l   | 59       |
| 31) Cyclohexane               | 8.016          | 56   | 6990       | 1.278     | ug/l # | 38       |
| 36) 1,1-Dichloropropene       | 8.022          | 75   | 21295      | 5.020     | ug/l # | 52       |
| 38) Carbon Tetrachloride      | 8.016          | 117  | 22377      | 5.110     | ug/l # | 15       |
| 49) 1,4-Dioxane               | 9.463          | 88   | 54         | 0.578     | ug/l # | 25       |
| 74) N-amyl acetate            | 12.327         | 43   | 124        | Below Cal | #      | 45       |
| 76) 1,2,3-Trichloropropane    | 12.674         | 75   | 115704     | 26.175    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.674         | 75   | 115704     | 58.344    | ug/l # | 9        |
| 92) 1,2-Dibromo-3-Chloropr... | 14.657         | 75   | 79         | Below Cal | #      | 8        |
| -----                         |                |      |            |           |        |          |

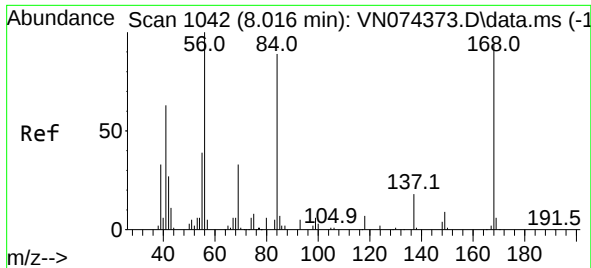
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.022 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN074444.D

Acq: 13 Sep 2022 19:45

Instrument :

MSVOA\_N

ClientSampleId :

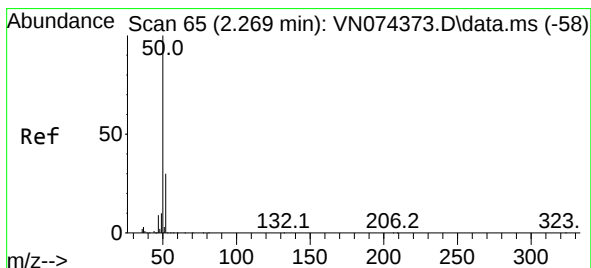
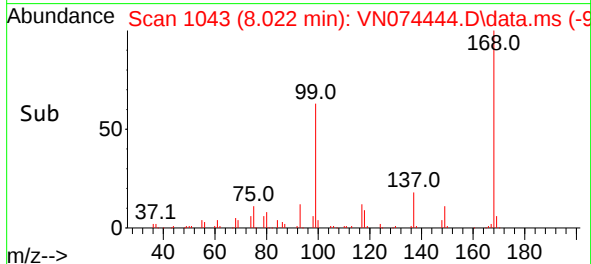
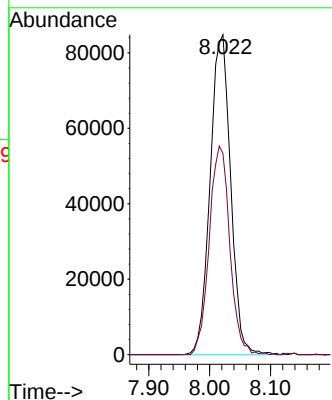
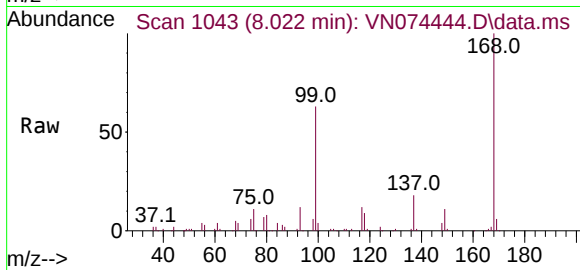
BR-02-123-143-090122-H

Tgt Ion:168 Resp: 198761

Ion Ratio Lower Upper

168 100

99 62.9 52.8 79.2



#3

Chloromethane

Concen: Below Cal

RT: 2.263 min Scan# 64

Delta R.T. -0.006 min

Lab File: VN074444.D

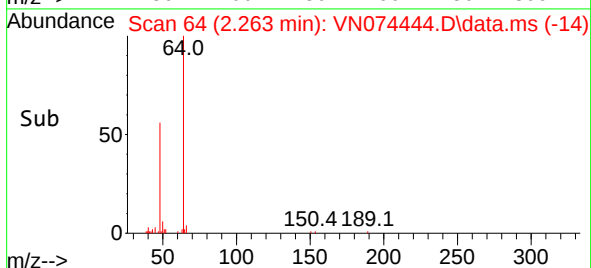
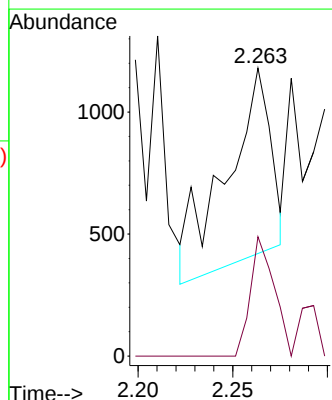
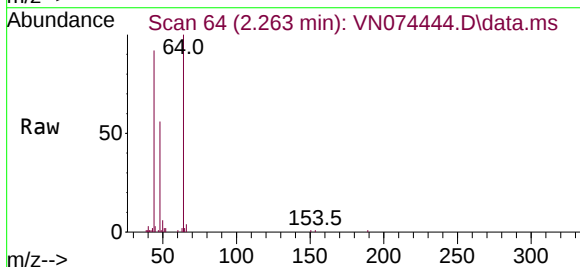
Acq: 13 Sep 2022 19:45

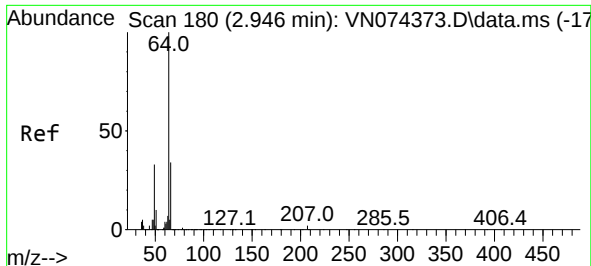
Tgt Ion: 50 Resp: 1271

Ion Ratio Lower Upper

50 100

52 67.5 24.1 36.1#

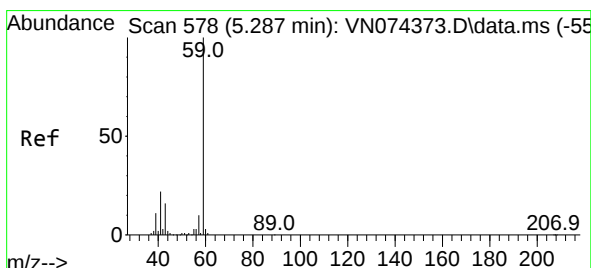
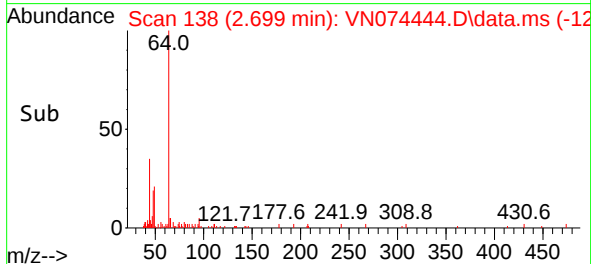
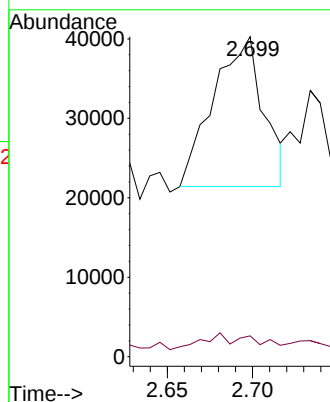
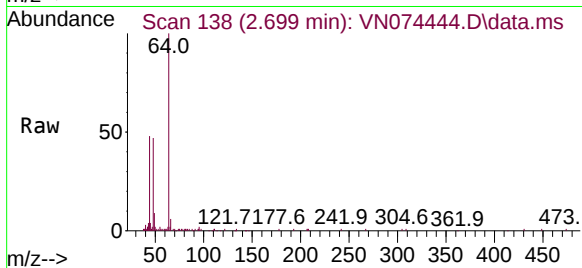




#6  
Chloroethane  
Concen: 11.104 ug/l  
RT: 2.699 min Scan# 11  
Delta R.T. -0.247 min  
Lab File: VN074444.D  
Acq: 13 Sep 2022 19:45

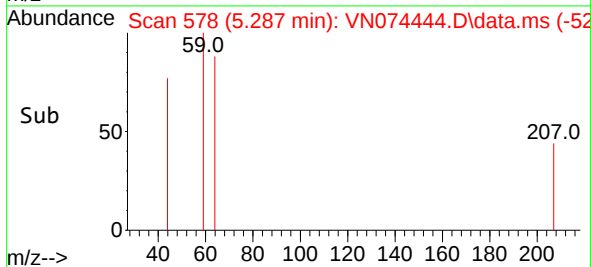
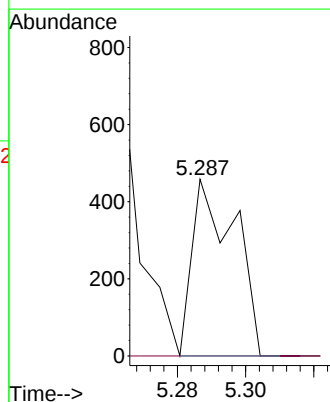
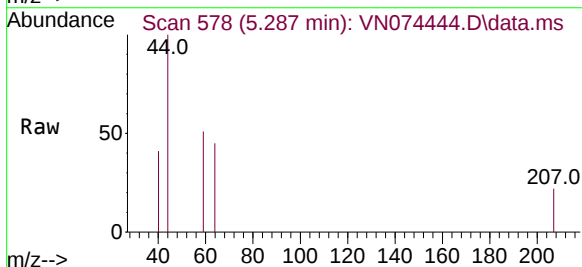
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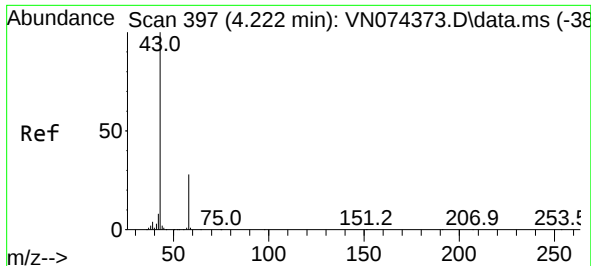
Tgt Ion: 64 Resp: 38540  
Ion Ratio Lower Upper  
64 100  
66 7.2 26.5 39.7#



#11  
Tert butyl alcohol  
Concen: 0.442 ug/l  
RT: 5.287 min Scan# 578  
Delta R.T. 0.000 min  
Lab File: VN074444.D  
Acq: 13 Sep 2022 19:45

Tgt Ion: 59 Resp: 398  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.8 13.2#

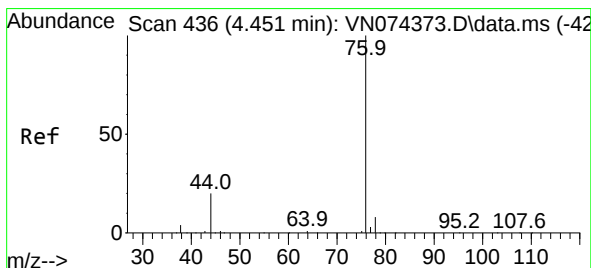
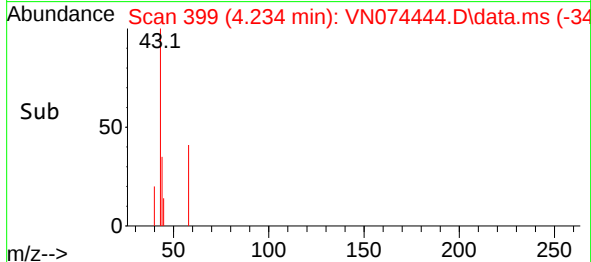
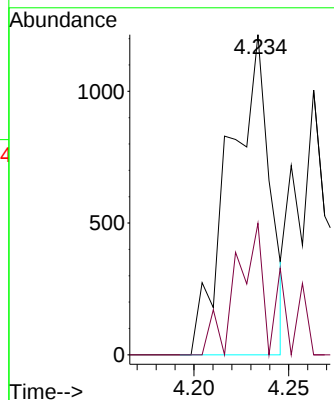
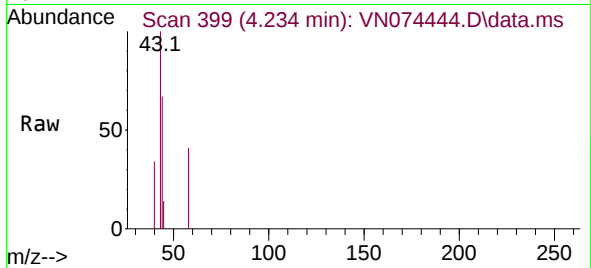




#16  
Acetone  
Concen: 0.973 ug/l  
RT: 4.234 min Scan# 399  
Delta R.T. 0.012 min  
Lab File: VN074444.D  
Acq: 13 Sep 2022 19:45

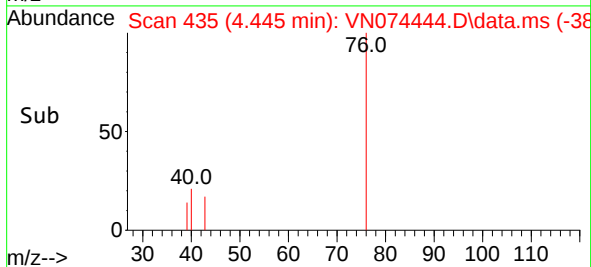
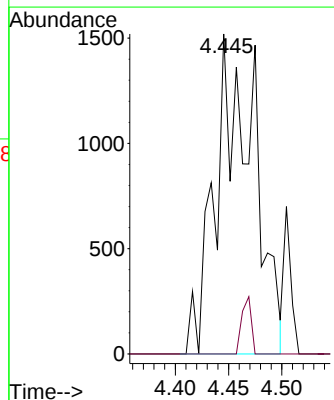
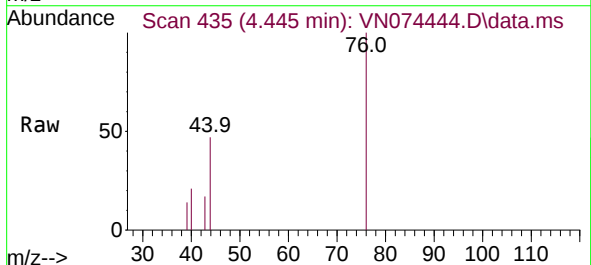
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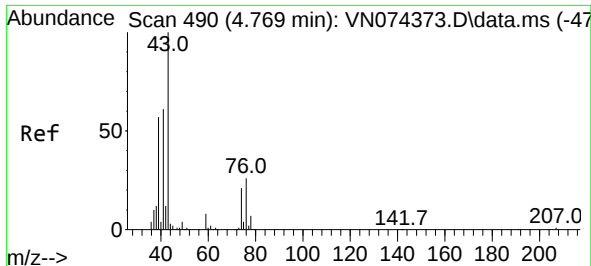
Tgt Ion: 43 Resp: 1806  
Ion Ratio Lower Upper  
43 100  
58 41.1 22.7 34.1#



#17  
Carbon Disulfide  
Concen: 0.564 ug/l  
RT: 4.445 min Scan# 435  
Delta R.T. -0.006 min  
Lab File: VN074444.D  
Acq: 13 Sep 2022 19:45

Tgt Ion: 76 Resp: 3800  
Ion Ratio Lower Upper  
76 100  
78 0.0 6.5 9.7#

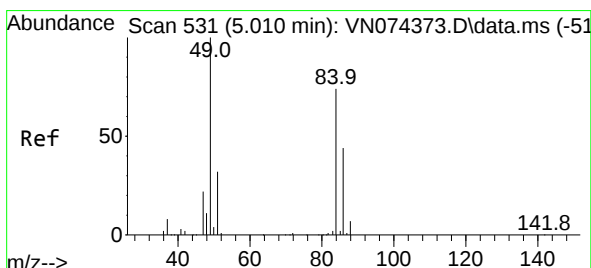
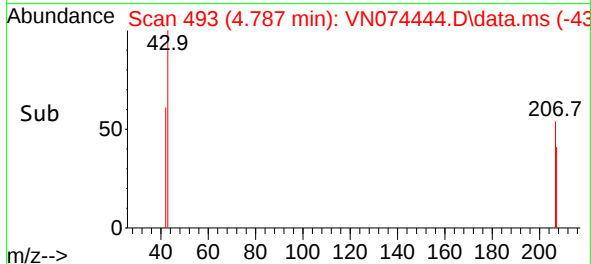
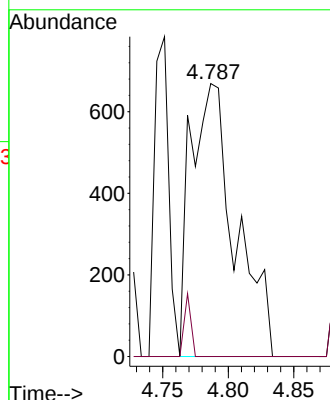
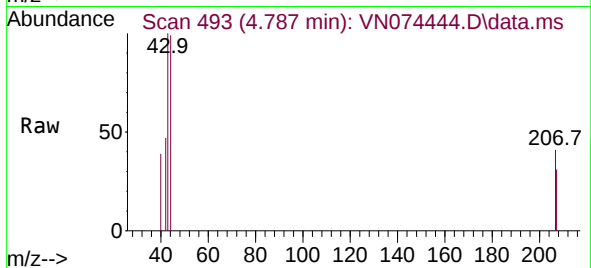




#18  
Methyl Acetate  
Concen: 0.289 ug/l  
RT: 4.787 min Scan# 49  
Delta R.T. 0.018 min  
Lab File: VN074444.D  
Acq: 13 Sep 2022 19:45

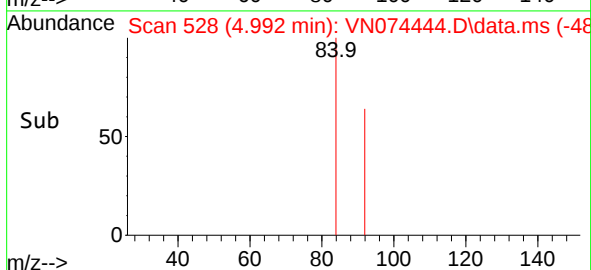
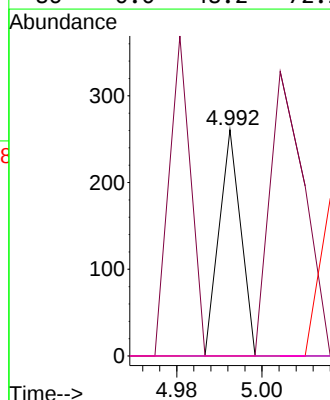
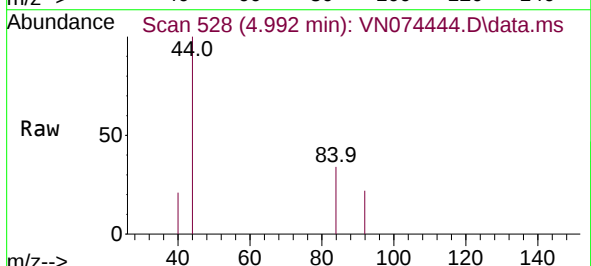
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ClientSampleId :  
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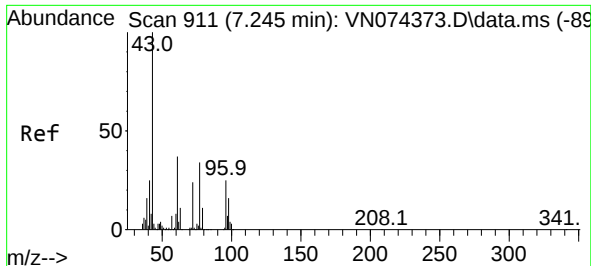
Tgt Ion: 43 Resp: 1579  
Ion Ratio Lower Upper  
43 100  
74 3.4 16.7 25.1#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.992 min Scan# 528  
Delta R.T. -0.018 min  
Lab File: VN074444.D  
Acq: 13 Sep 2022 19:45

Tgt Ion: 84 Resp: 92  
Ion Ratio Lower Upper  
84 100  
49 0.0 108.2 162.4#  
51 0.0 34.3 51.5#  
86 0.0 48.2 72.2#





#27

cis-1,2-Dichloroethene

Concen: 0.319 ug/l

RT: 7.257 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN074444.D

Acq: 13 Sep 2022 19:45

Instrument :

MSVOA\_N

ClientSampleId :

BR-02-123-143-090122-H

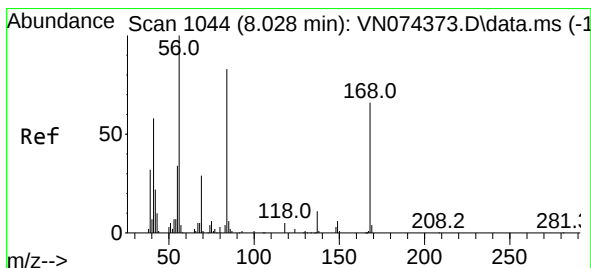
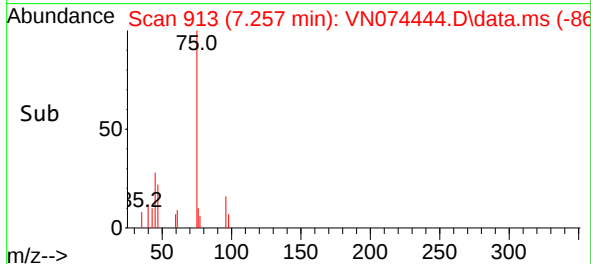
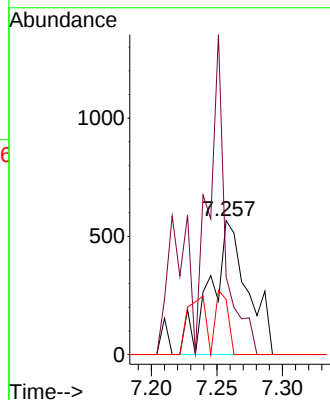
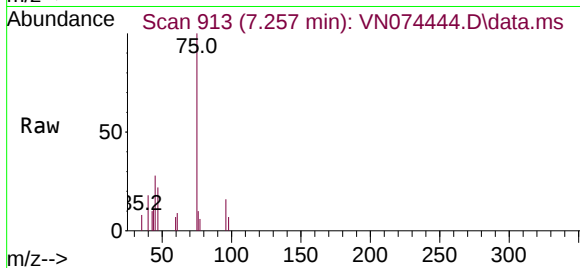
Tgt Ion: 96 Resp: 1092

Ion Ratio Lower Upper

96 100

61 111.1 0.0 306.2

98 16.3 0.0 129.8



#31

Cyclohexane

Concen: 1.278 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.012 min

Lab File: VN074444.D

Acq: 13 Sep 2022 19:45

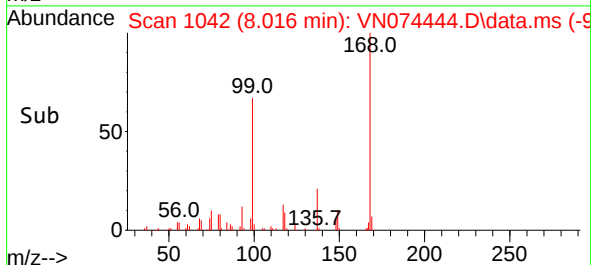
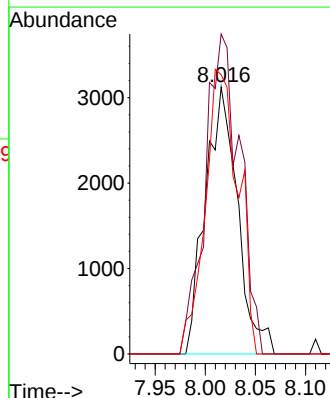
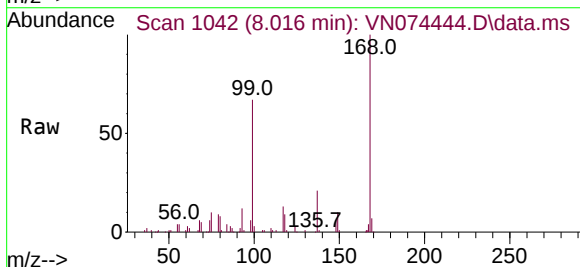
Tgt Ion: 56 Resp: 6990

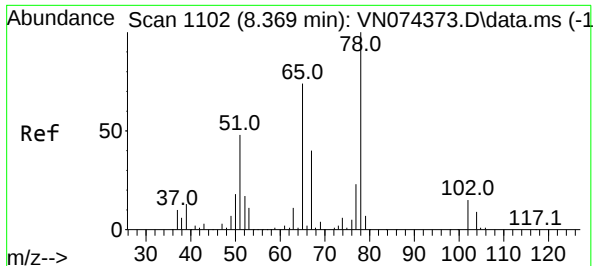
Ion Ratio Lower Upper

56 100

69 119.9 23.0 34.4#

84 104.6 66.3 99.5#





#33

1,2-Dichloroethane-d4

Concen: 49.567 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VN074444.D

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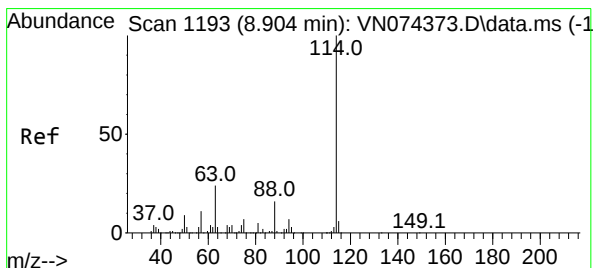
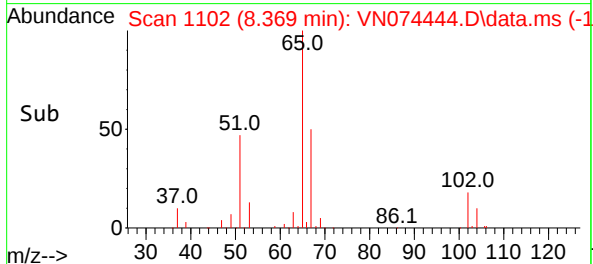
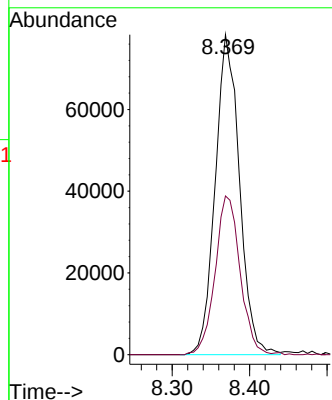
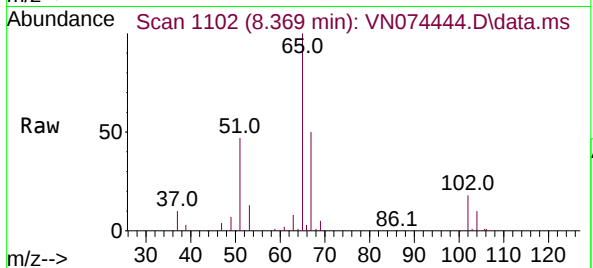
BR-02-123-143-090122-H

Tgt Ion: 65 Resp: 170453

Ion Ratio Lower Upper

65 100

67 51.2 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VN074444.D

Acq: 13 Sep 2022 19:45

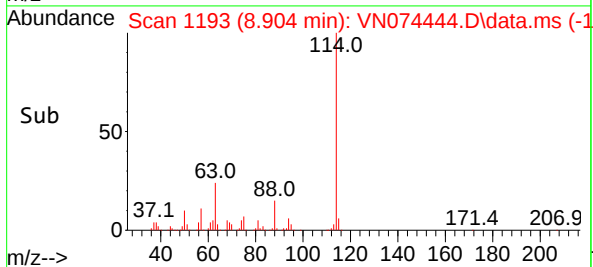
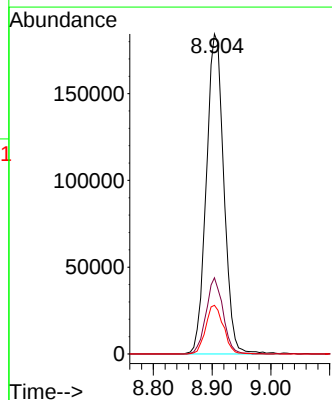
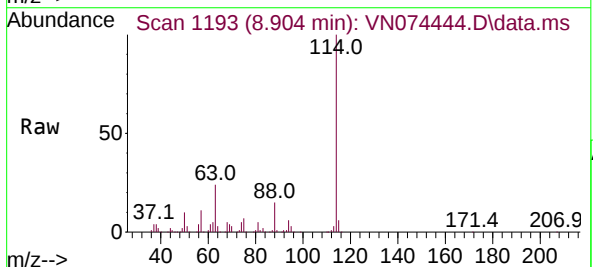
Tgt Ion: 114 Resp: 381413

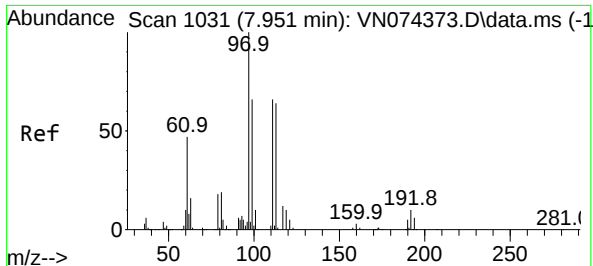
Ion Ratio Lower Upper

114 100

63 23.8 0.0 47.6

88 15.2 0.0 31.4





#35

Dibromofluoromethane

Concen: 52.656 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN074444.D

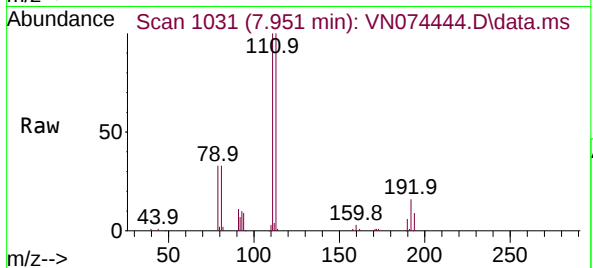
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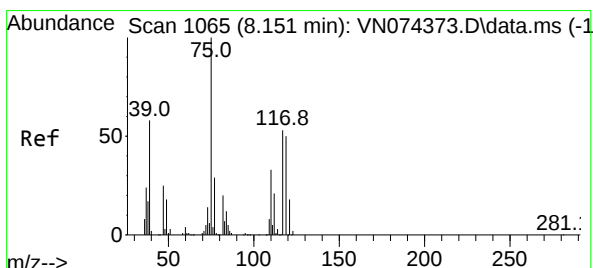
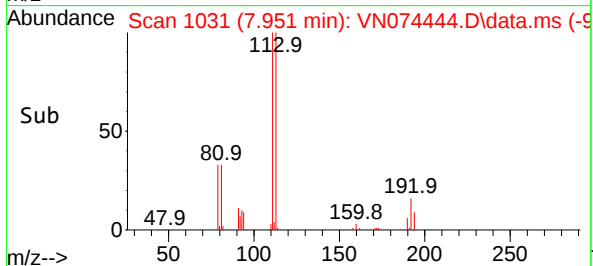
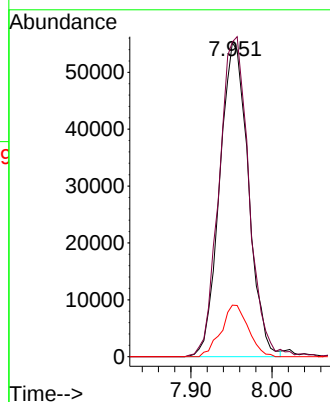
Tgt Ion:113 Resp: 135585

Ion Ratio Lower Upper

113 100

111 105.9 83.0 124.4

192 15.5 13.7 20.5



#36

1,1-Dichloropropene

Concen: 5.020 ug/l

RT: 8.022 min Scan# 1043

Delta R.T. -0.129 min

Lab File: VN074444.D

Acq: 13 Sep 2022 19:45

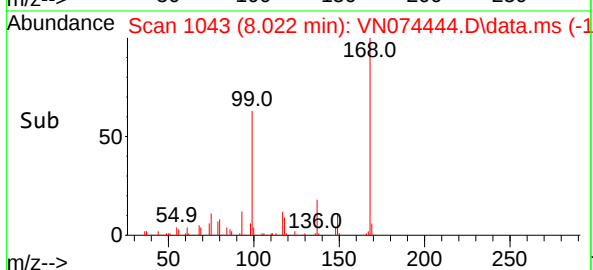
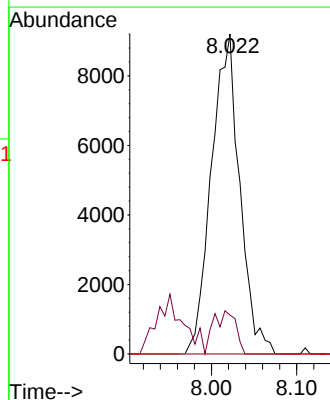
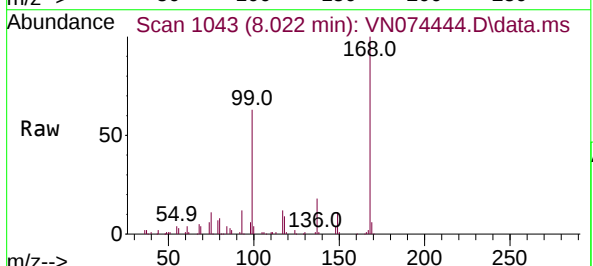
Tgt Ion: 75 Resp: 21295

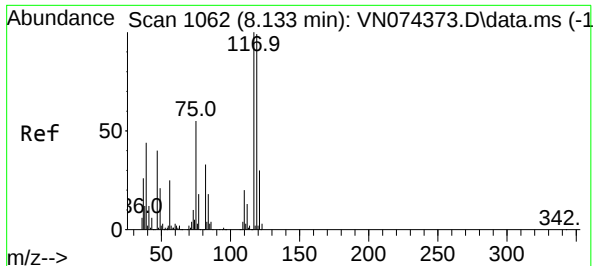
Ion Ratio Lower Upper

75 100

110 10.5 16.4 49.1#

77 0.0 25.4 38.2#





#38

Carbon Tetrachloride

Concen: 5.110 ug/l

RT: 8.016 min Scan# 1

Delta R.T. -0.118 min

Lab File: VN074444.D

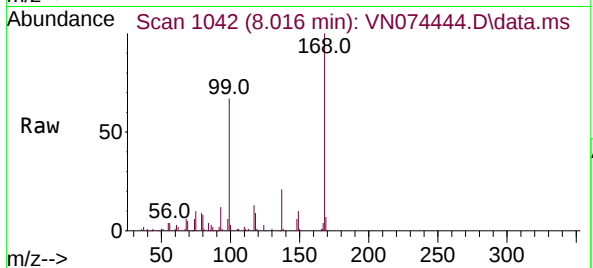
Acq: 13 Sep 2022 19:45

Instrument :

MSVOA\_N

ClientSampleId :

BR-02-123-143-090122-H



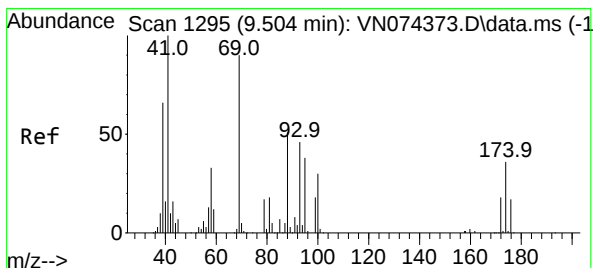
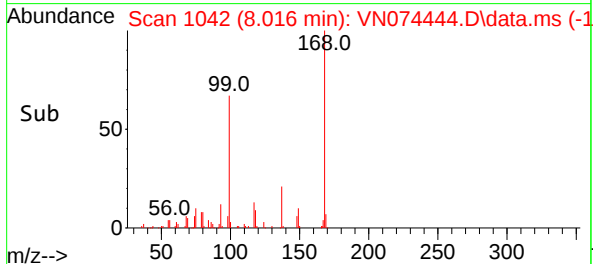
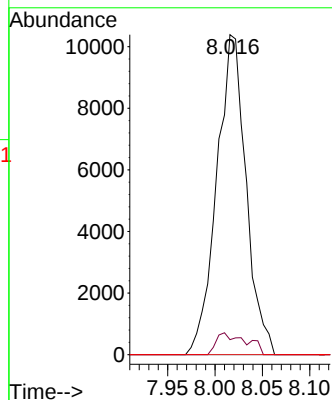
Tgt Ion: 117 Resp: 22377

Ion Ratio Lower Upper

117 100

119 4.7 78.8 118.2#

121 0.0 24.1 36.1#



#49

1,4-Dioxane

Concen: 0.578 ug/l

RT: 9.463 min Scan# 1288

Delta R.T. -0.041 min

Lab File: VN074444.D

Acq: 13 Sep 2022 19:45

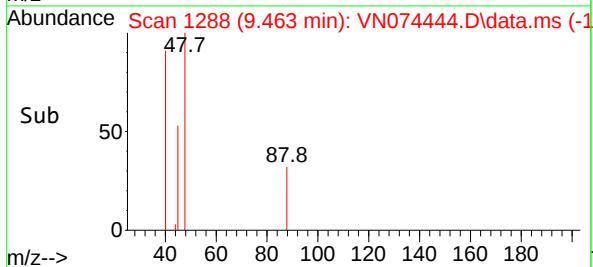
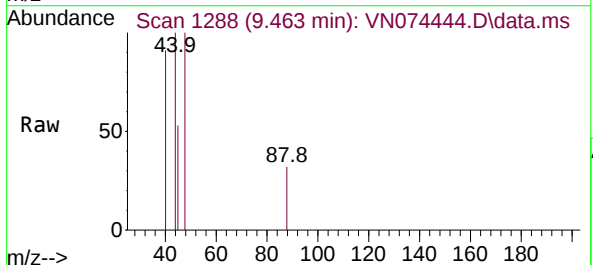
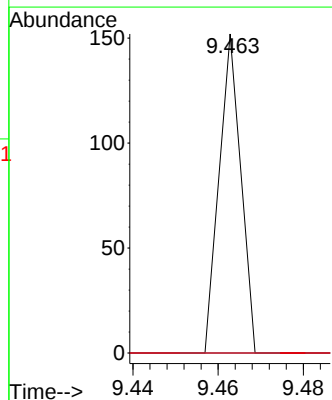
Tgt Ion: 88 Resp: 54

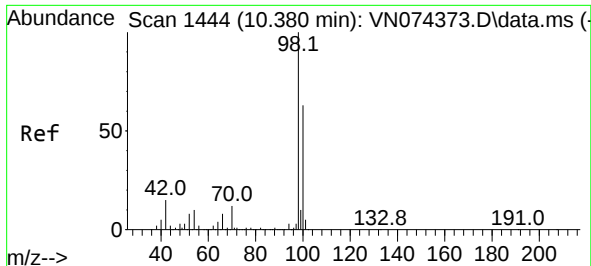
Ion Ratio Lower Upper

88 100

43 0.0 26.9 40.3#

58 0.0 52.7 79.1#

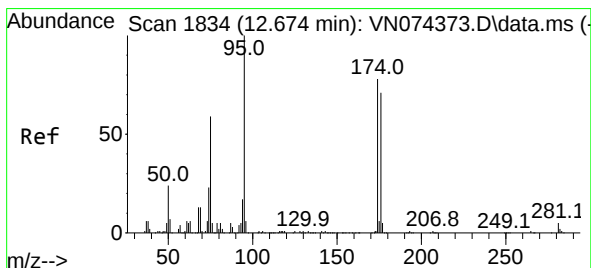
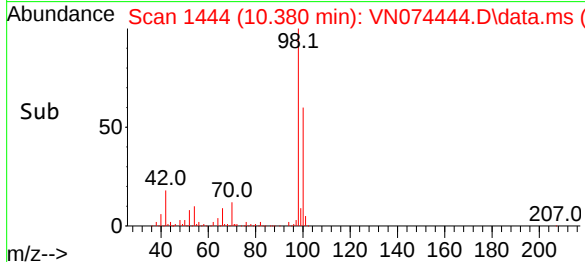
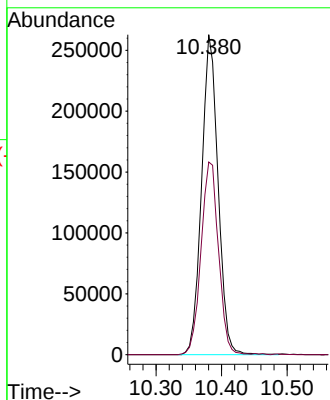
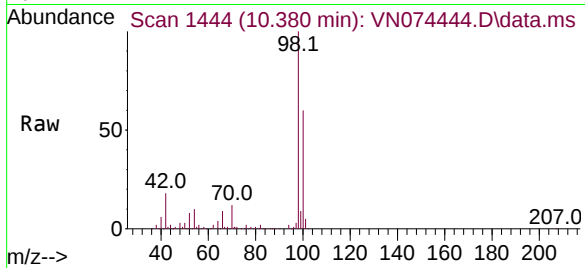




#50  
Toluene-d8  
Concen: 45.823 ug/l  
RT: 10.380 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: VN074444.D  
Acq: 13 Sep 2022 19:45

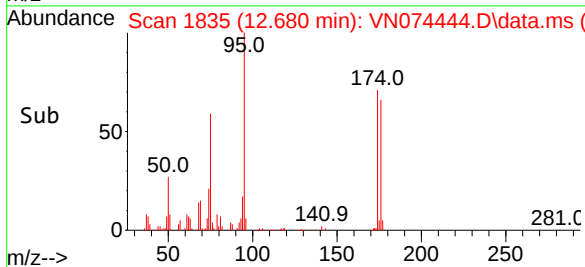
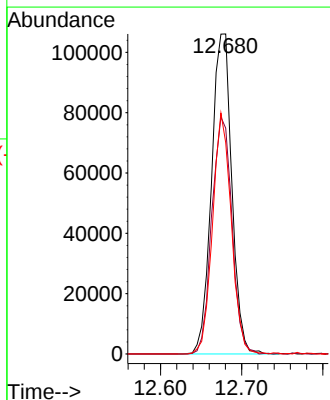
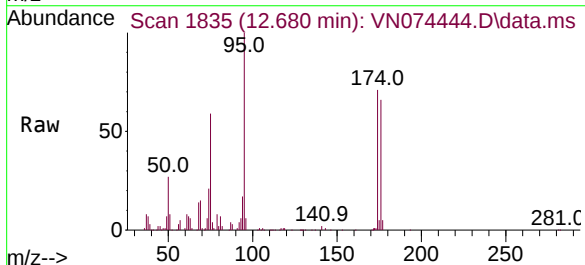
Instrument :  
MSVOA\_N  
ClientSampleId :  
BR-02-123-143-090122-H

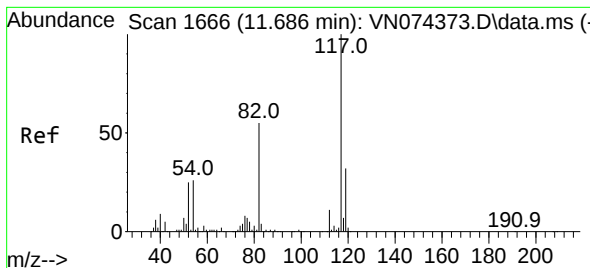
Tgt Ion: 98 Resp: 459743  
Ion Ratio Lower Upper  
98 100  
100 63.8 50.6 76.0



#62  
4-Bromofluorobenzene  
Concen: 50.598 ug/l  
RT: 12.680 min Scan# 1835  
Delta R.T. 0.006 min  
Lab File: VN074444.D  
Acq: 13 Sep 2022 19:45

Tgt Ion: 95 Resp: 184310  
Ion Ratio Lower Upper  
95 100  
174 73.4 0.0 150.6  
176 69.4 0.0 143.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.686 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN074444.D

Acq: 13 Sep 2022 19:45

Instrument :

MSVOA\_N

ClientSampleId :

BR-02-123-143-090122-H

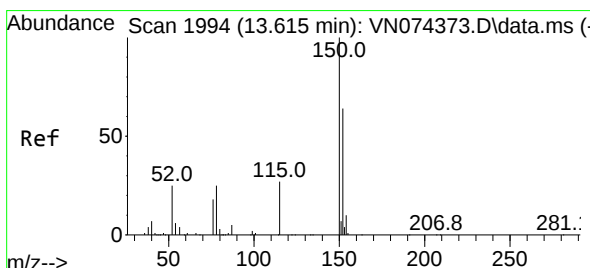
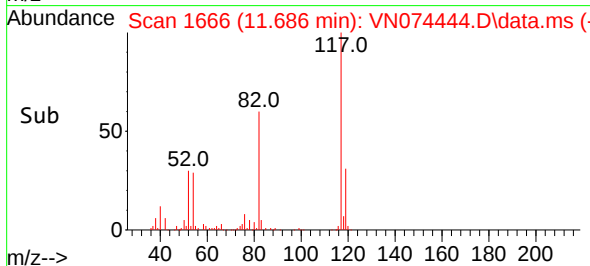
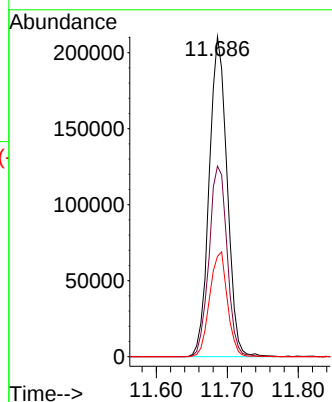
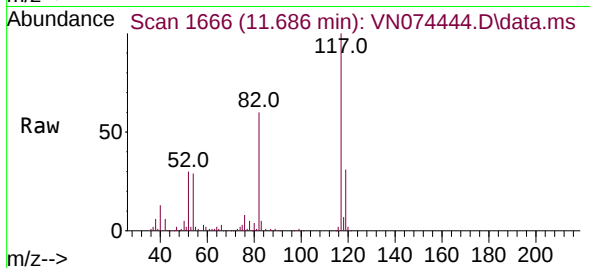
Tgt Ion:117 Resp: 368298

Ion Ratio Lower Upper

117 100

82 59.5 44.3 66.5

119 31.3 25.5 38.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.621 min Scan# 1995

Delta R.T. 0.006 min

Lab File: VN074444.D

Acq: 13 Sep 2022 19:45

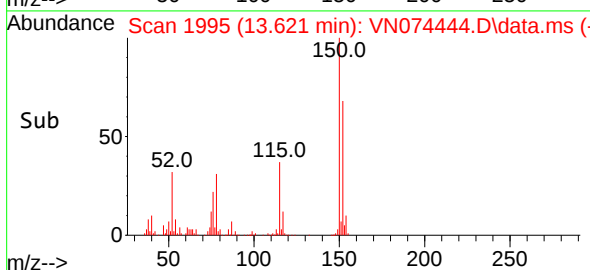
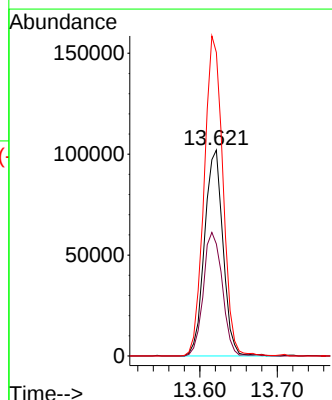
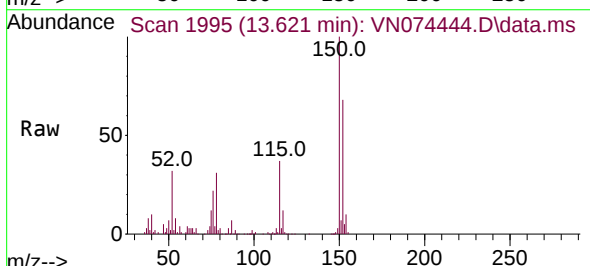
Tgt Ion:152 Resp: 169093

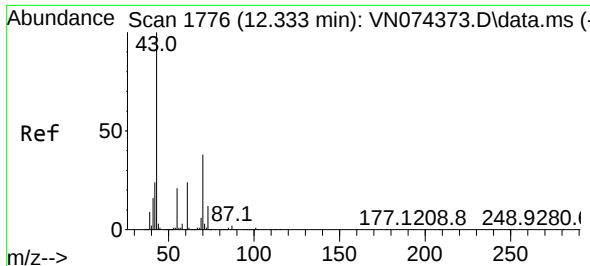
Ion Ratio Lower Upper

152 100

115 61.6 32.0 96.0

150 157.4 0.0 359.6

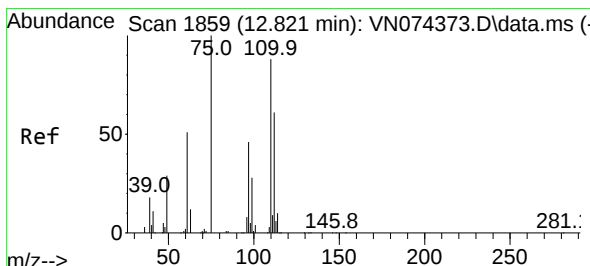
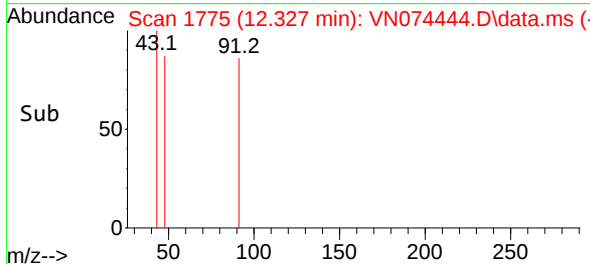
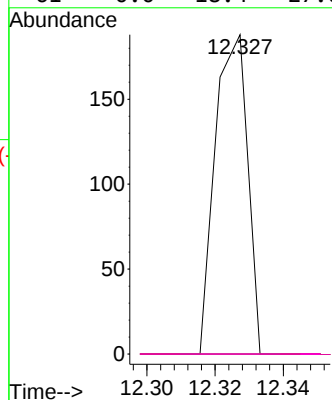
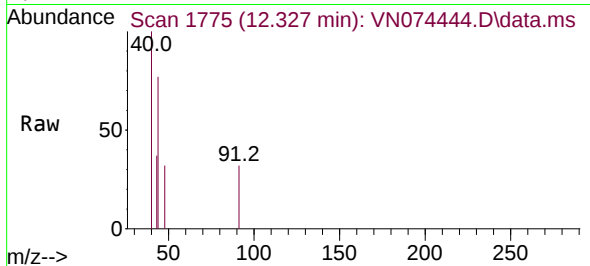




#74  
N-amy1 acetate  
Concen: Below Cal  
RT: 12.327 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN074444.D  
Acq: 13 Sep 2022 19:45

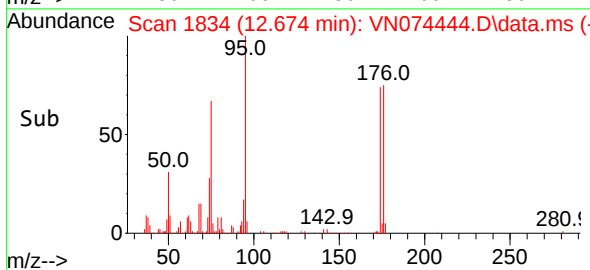
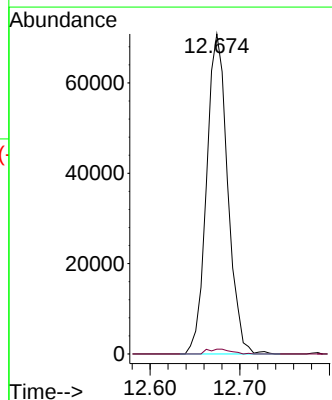
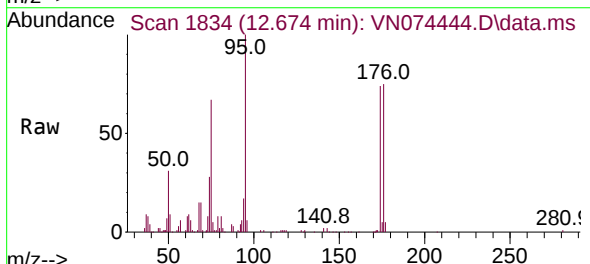
Instrument :  
MSVOA\_N  
ClientSampleId :  
BR-02-123-143-090122-H

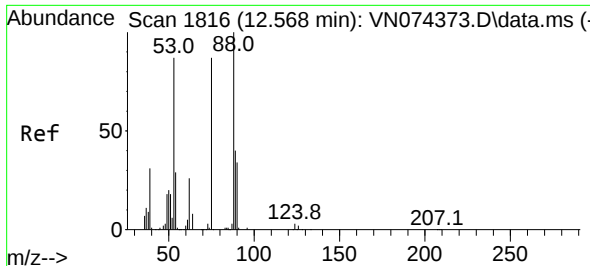
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 124   |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 70 0.0      | 31.4 47.0#  |
| 55 0.0      | 17.0 25.6#  |
| 61 0.0      | 18.4 27.6#  |



#76  
1,2,3-Trichloropropane  
Concen: 26.175 ug/l  
RT: 12.674 min Scan# 1834  
Delta R.T. -0.147 min  
Lab File: VN074444.D  
Acq: 13 Sep 2022 19:45

|             |              |
|-------------|--------------|
| Tgt Ion: 75 | Resp: 115704 |
| Ion Ratio   | Lower Upper  |
| 75 100      |              |
| 77 1.7      | 78.9 236.7#  |

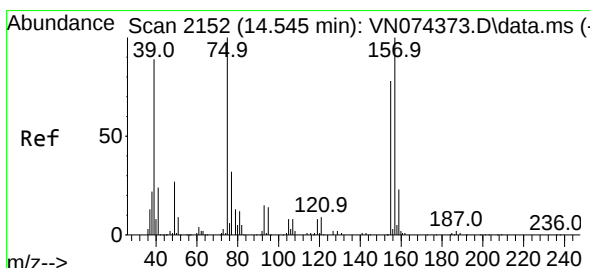
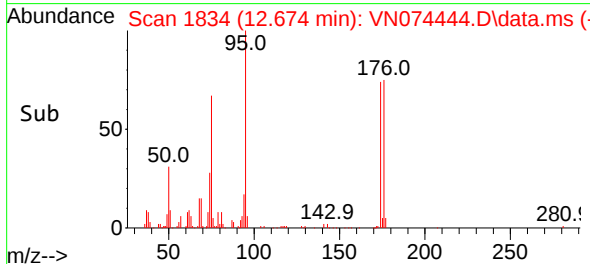
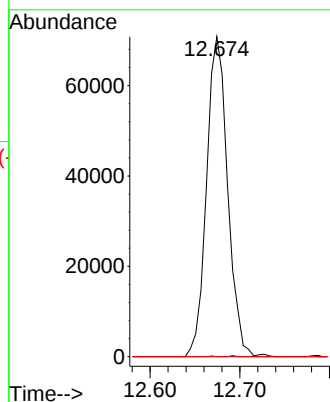
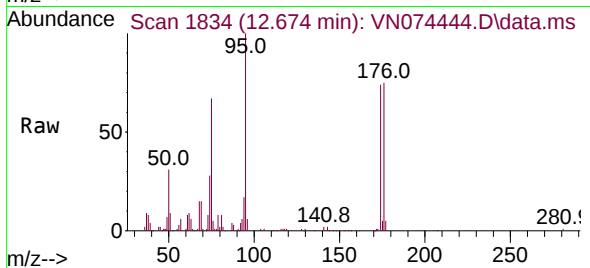




#81  
trans-1,4-Dichloro-2-butene  
Concen: 58.344 ug/l  
RT: 12.674 min Scan# 115704  
Delta R.T. 0.106 min  
Lab File: VN074444.D  
Acq: 13 Sep 2022 19:45

Instrument :  
MSVOA\_N  
ClientSampleId :  
BR-02-123-143-090122-H

Tgt Ion: 75 Resp: 115704  
Ion Ratio Lower Upper  
75 100  
53 0.0 82.2 123.2#  
89 0.1 37.7 56.5#



#92  
1,2-Dibromo-3-Chloropropane  
Concen: Below Cal  
RT: 14.657 min Scan# 2171  
Delta R.T. 0.112 min  
Lab File: VN074444.D  
Acq: 13 Sep 2022 19:45

Tgt Ion: 75 Resp: 79  
Ion Ratio Lower Upper  
75 100  
155 0.0 36.6 109.9#  
157 0.0 46.2 138.5#

