

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091322\  
 Data File : VN074443.D  
 Acq On : 13 Sep 2022 19:20  
 Operator : JC\MD  
 Sample : N4492-14  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EB01-090122

Quant Time: Sep 14 08:04:51 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

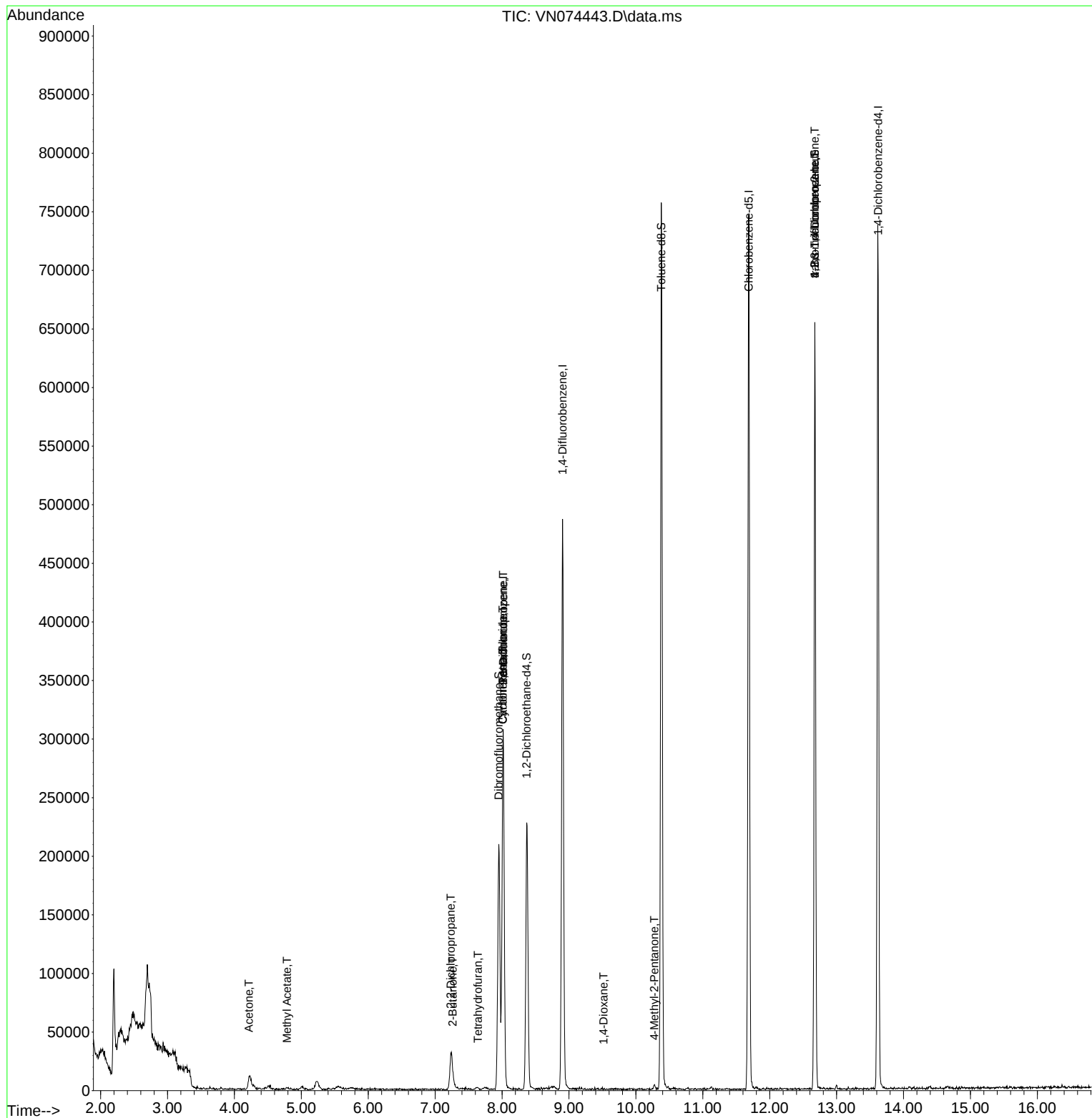
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.016  | 168   | 205397   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.904  | 114   | 382341   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.686 | 117   | 370312   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.621 | 152   | 168588   | 50.000    | ug/l   | 0.00     |
|                               |        |       |          |           |        |          |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.369  | 65    | 176761   | 49.740    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 99.480%  |
| 35) Dibromofluoromethane      | 7.951  | 113   | 141465   | 54.806    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 109.620% |
| 50) Toluene-d8                | 10.380 | 98    | 472392   | 46.969    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 93.940%  |
| 62) 4-Bromofluorobenzene      | 12.674 | 95    | 184989   | 50.661    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 101.320% |
|                               |        |       |          |           |        |          |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 2.269  | 50    | 1547     | Below Cal |        | 97       |
| 6) Chloroethane               | 2.934  | 64    | 3299     | Below Cal | #      | 42       |
| 16) Acetone                   | 4.216  | 43    | 20396    | 10.631    | ug/l # | 89       |
| 18) Methyl Acetate            | 4.787  | 43    | 1641     | 0.290     | ug/l # | 62       |
| 20) Methylene Chloride        | 5.010  | 84    | 1633     | Below Cal | #      | 55       |
| 25) 2-Butanone                | 7.263  | 43    | 7463     | 2.317     | ug/l # | 85       |
| 26) 2,2-Dichloropropane       | 7.234  | 77    | 2261     | 0.430     | ug/l # | 55       |
| 28) Bromochloromethane        | 7.592  | 49    | 66       | Below Cal | #      | 20       |
| 29) Tetrahydrofuran           | 7.639  | 42    | 1680     | 0.789     | ug/l # | 64       |
| 31) Cyclohexane               | 8.010  | 56    | 7291     | 1.290     | ug/l # | 48       |
| 36) 1,1-Dichloropropene       | 8.016  | 75    | 21023    | 4.944     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 8.010  | 117   | 23268    | 5.300     | ug/l # | 15       |
| 49) 1,4-Dioxane               | 9.516  | 88    | 79       | 0.843     | ug/l # | 44       |
| 51) 4-Methyl-2-Pentanone      | 10.274 | 43    | 3045     | 0.462     | ug/l   | 93       |
| 74) N-amyl acetate            | 12.339 | 43    | 110      | Below Cal | #      | 45       |
| 76) 1,2,3-Trichloropropane    | 12.674 | 75    | 119330   | 27.076    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.674 | 75    | 119330   | 60.352    | ug/l # | 9        |
| 92) 1,2-Dibromo-3-Chloropr... | 14.798 | 75    | 71       | Below Cal | #      | 8        |
| -----                         |        |       |          |           |        |          |

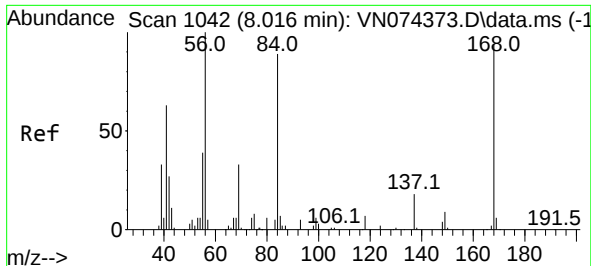
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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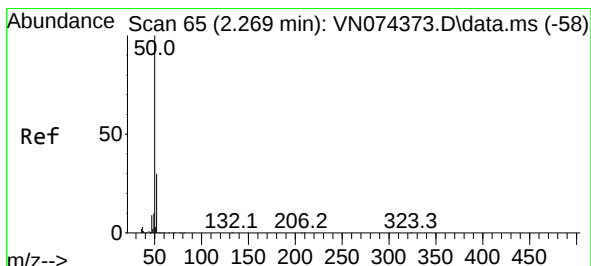
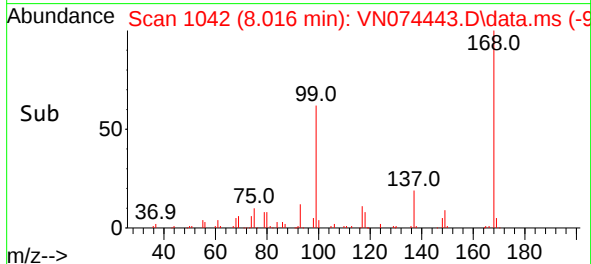
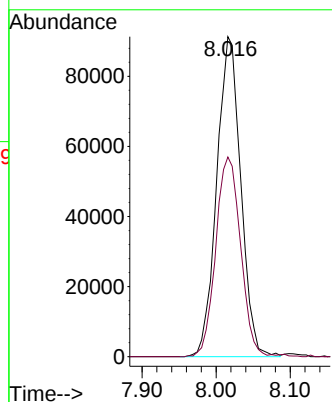
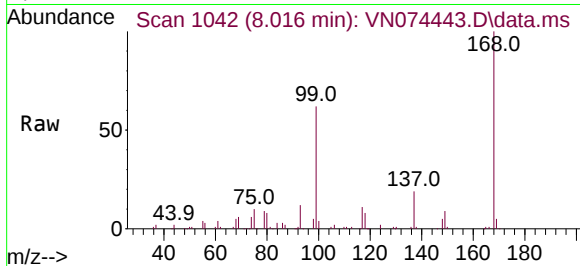




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.016 min Scan# 1042  
Delta R.T. -0.000 min  
Lab File: VN074443.D  
Acq: 13 Sep 2022 19:20

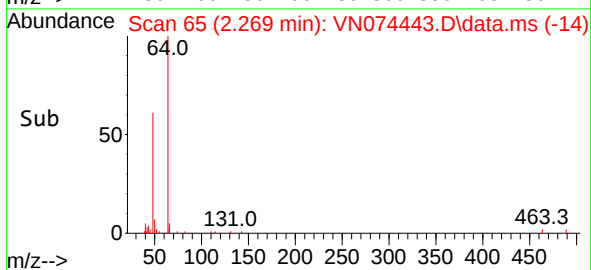
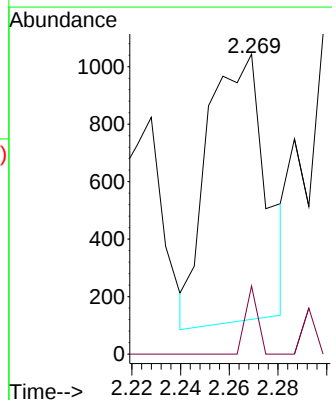
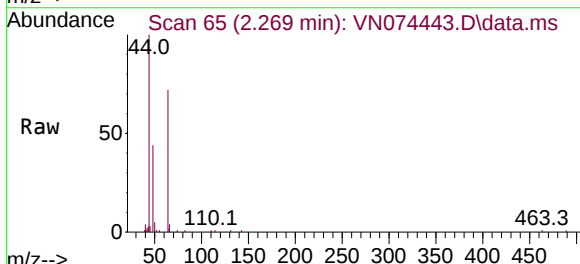
Instrument :  
MSVOA\_N  
ClientSampleId :  
EB01-090122

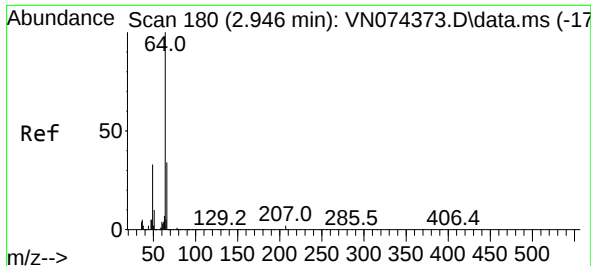
Tgt Ion:168 Resp: 205397  
Ion Ratio Lower Upper  
168 100  
99 62.4 52.8 79.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.269 min Scan# 65  
Delta R.T. 0.000 min  
Lab File: VN074443.D  
Acq: 13 Sep 2022 19:20

Tgt Ion: 50 Resp: 1547  
Ion Ratio Lower Upper  
50 100  
52 28.5 24.1 36.1

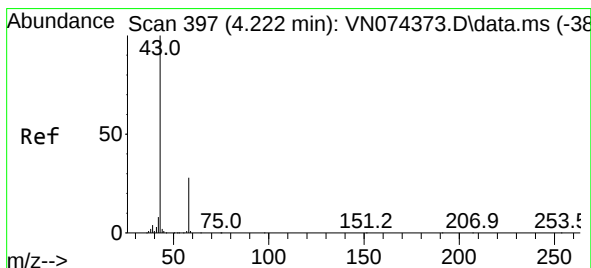
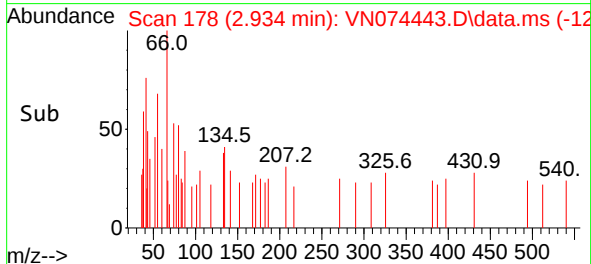
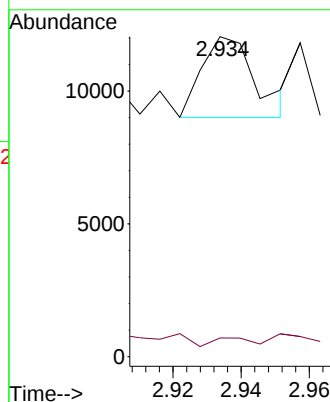
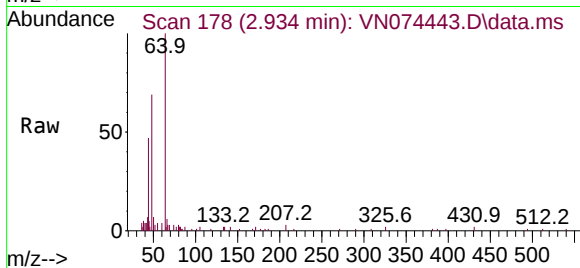




#6  
Chloroethane  
Concen: Below Cal  
RT: 2.934 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: VN074443.D  
Acq: 13 Sep 2022 19:20

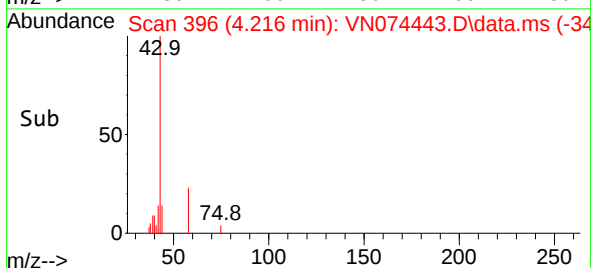
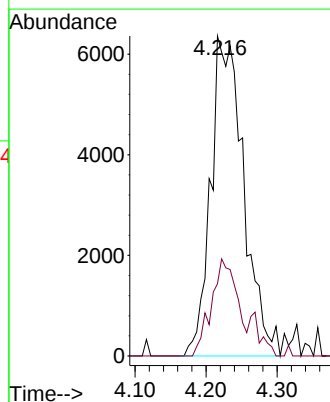
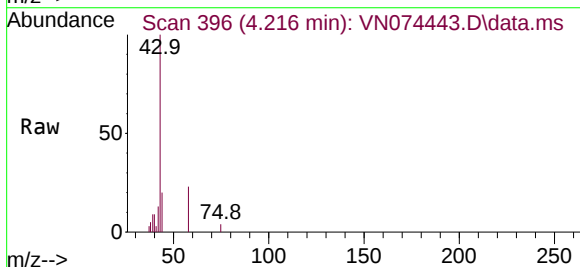
Instrument :  
MSVOA\_N  
ClientSampleId :  
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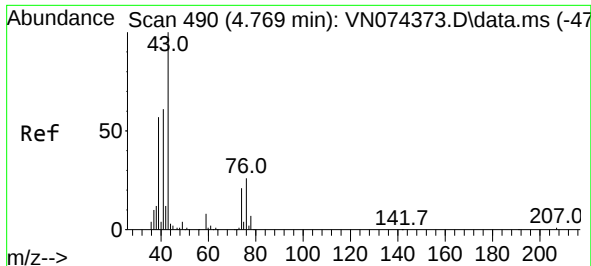
Tgt Ion: 64 Resp: 3299  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.5 39.7#



#16  
Acetone  
Concen: 10.631 ug/l  
RT: 4.216 min Scan# 396  
Delta R.T. -0.006 min  
Lab File: VN074443.D  
Acq: 13 Sep 2022 19:20

Tgt Ion: 43 Resp: 20396  
Ion Ratio Lower Upper  
43 100  
58 22.6 22.7 34.1#

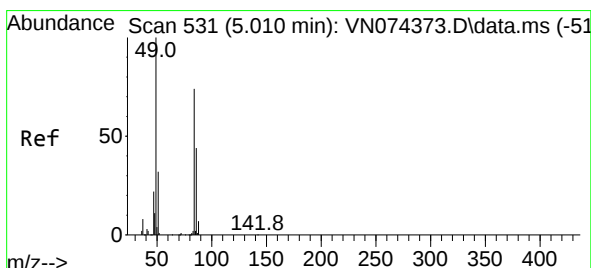
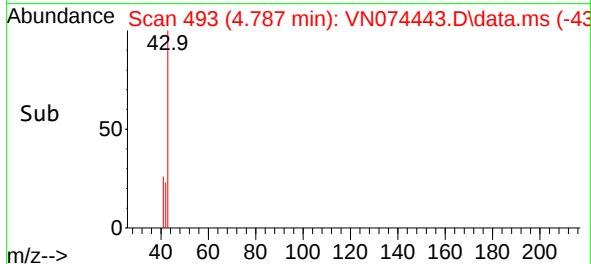
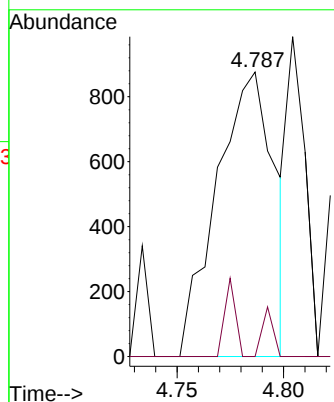
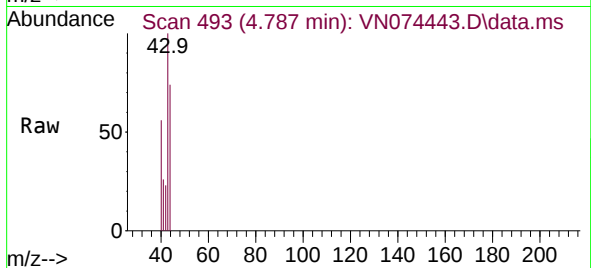




#18  
Methyl Acetate  
Concen: 0.290 ug/l  
RT: 4.787 min Scan# 493  
Delta R.T. 0.018 min  
Lab File: VN074443.D  
Acq: 13 Sep 2022 19:20

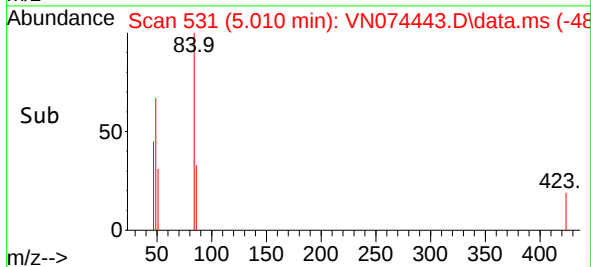
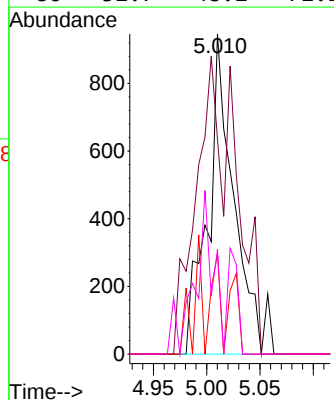
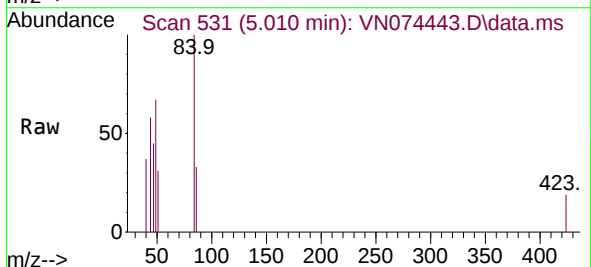
Instrument :  
MSVOA\_N  
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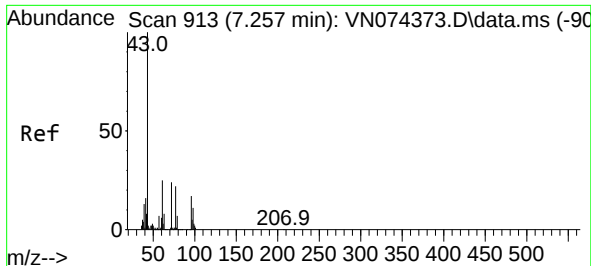
Tgt Ion: 43 Resp: 1641  
Ion Ratio Lower Upper  
43 100  
74 3.3 16.7 25.1#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.010 min Scan# 531  
Delta R.T. 0.000 min  
Lab File: VN074443.D  
Acq: 13 Sep 2022 19:20

Tgt Ion: 84 Resp: 1633  
Ion Ratio Lower Upper  
84 100  
49 67.1 108.2 162.4#  
51 31.1 34.3 51.5#  
86 32.7 48.2 72.2#

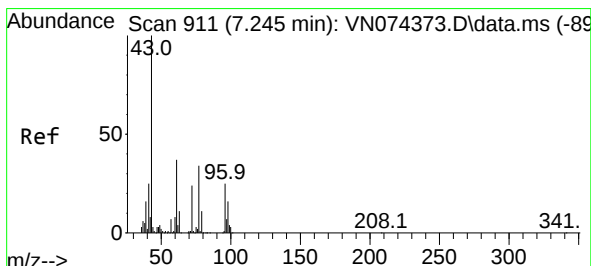
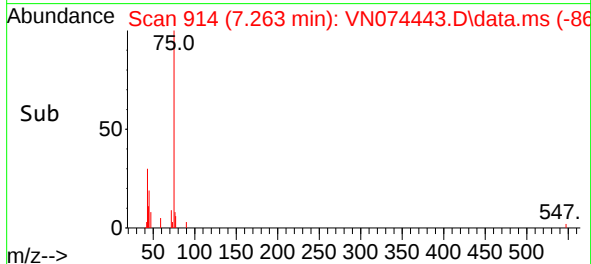
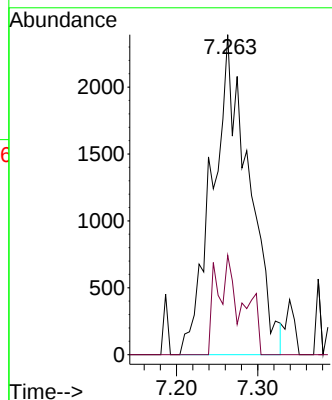
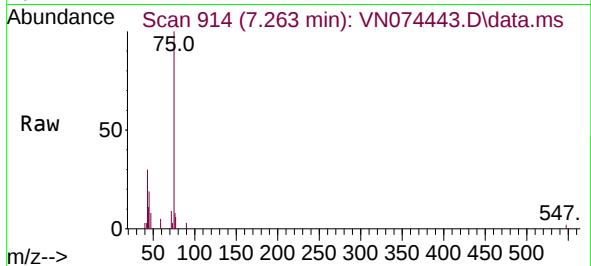




#25  
2-Butanone  
Concen: 2.317 ug/l  
RT: 7.263 min Scan# 913  
Delta R.T. 0.006 min  
Lab File: VN074443.D  
Acq: 13 Sep 2022 19:20

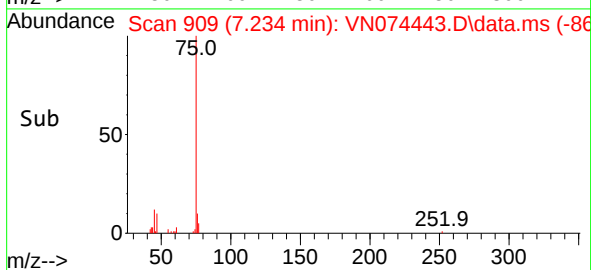
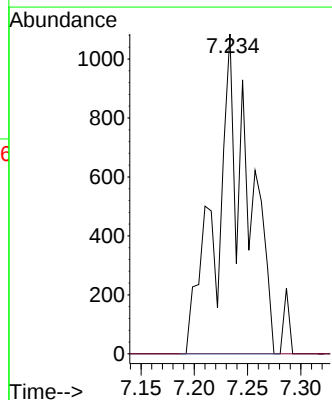
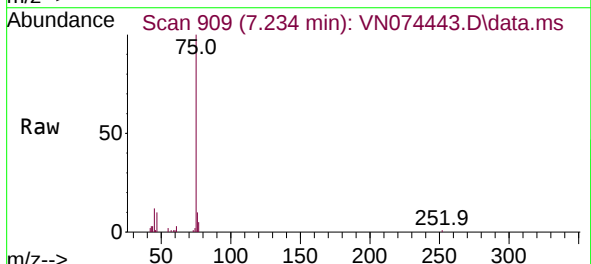
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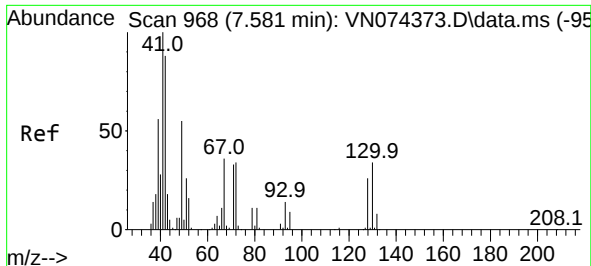
Tgt Ion: 43 Resp: 7463  
Ion Ratio Lower Upper  
43 100  
72 31.1 18.9 28.3#



#26  
2,2-Dichloropropane  
Concen: 0.430 ug/l  
RT: 7.234 min Scan# 909  
Delta R.T. -0.012 min  
Lab File: VN074443.D  
Acq: 13 Sep 2022 19:20

Tgt Ion: 77 Resp: 2261  
Ion Ratio Lower Upper  
77 100  
97 0.0 10.7 32.1#

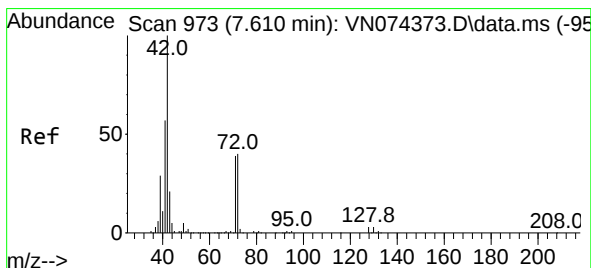
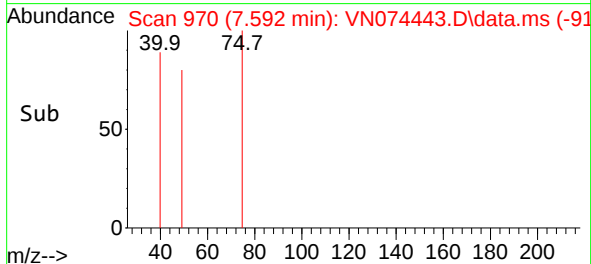
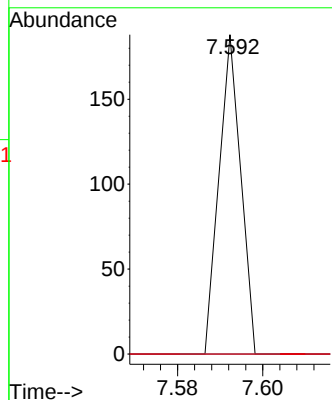
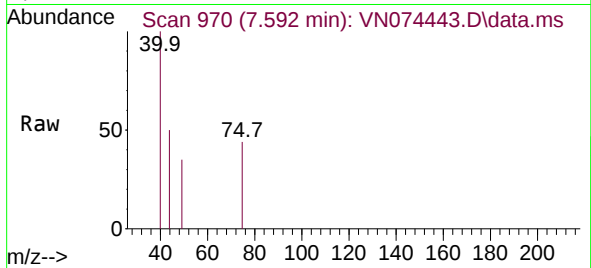




#28  
Bromochloromethane  
Concen: Below Cal  
RT: 7.592 min Scan# 91  
Delta R.T. 0.011 min  
Lab File: VN074443.D  
Acq: 13 Sep 2022 19:20

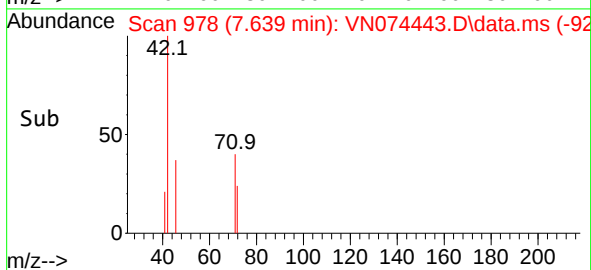
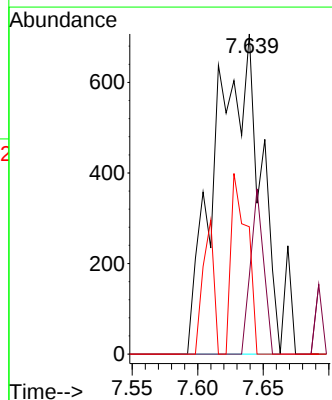
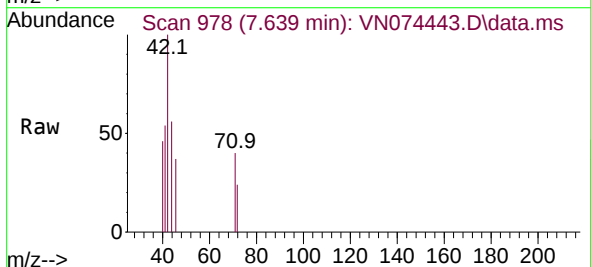
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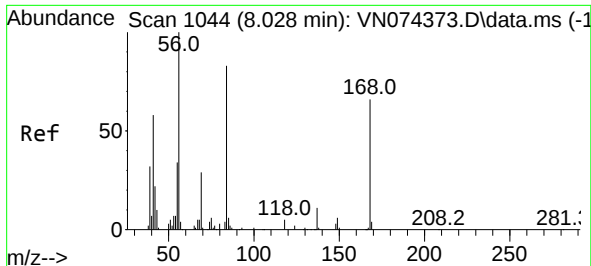
Tgt Ion: 49 Resp: 66  
Ion Ratio Lower Upper  
49 100  
129 0.0 0.0 2.2  
130 0.0 50.0 75.0#



#29  
Tetrahydrofuran  
Concen: 0.789 ug/l  
RT: 7.639 min Scan# 978  
Delta R.T. 0.029 min  
Lab File: VN074443.D  
Acq: 13 Sep 2022 19:20

Tgt Ion: 42 Resp: 1680  
Ion Ratio Lower Upper  
42 100  
72 15.0 32.7 49.1#  
71 20.4 31.0 46.6#





#31

Cyclohexane

Concen: 1.290 ug/l

RT: 8.010 min Scan# 1041

Delta R.T. -0.018 min

Lab File: VN074443.D

Acq: 13 Sep 2022 19:20

Instrument :

MSVOA\_N

ClientSampleId :

EB01-090122

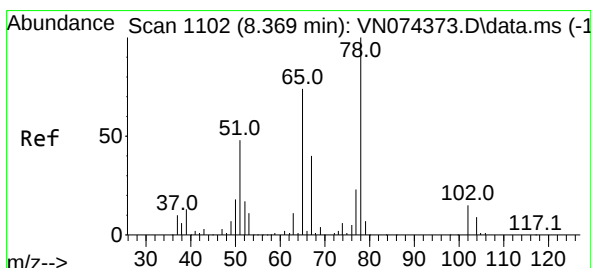
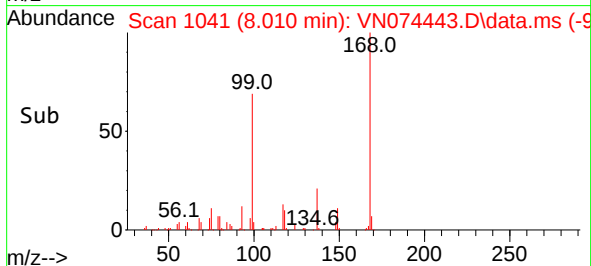
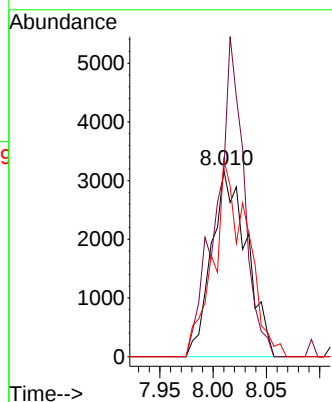
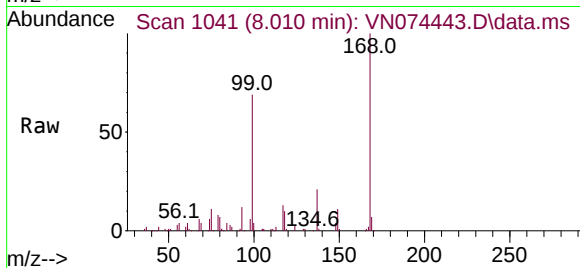
Tgt Ion: 56 Resp: 7291

Ion Ratio Lower Upper

56 100

69 97.6 23.0 34.4#

84 105.7 66.3 99.5#



#33

1,2-Dichloroethane-d4

Concen: 49.740 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VN074443.D

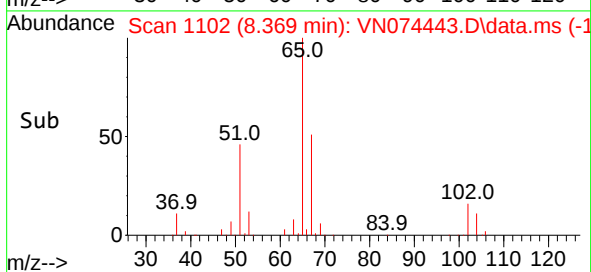
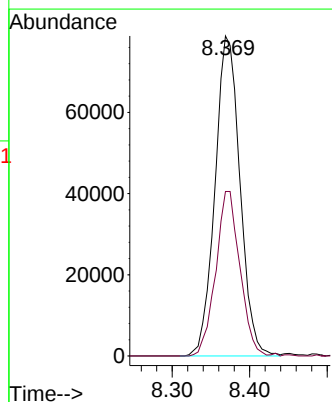
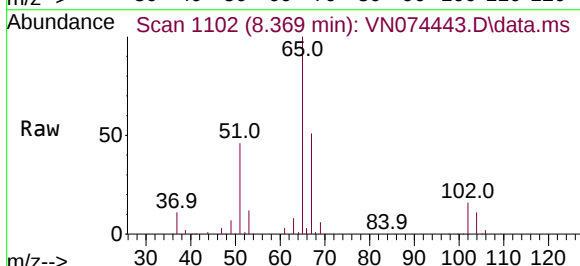
Acq: 13 Sep 2022 19:20

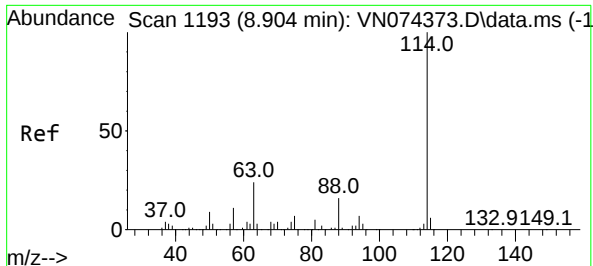
Tgt Ion: 65 Resp: 176761

Ion Ratio Lower Upper

65 100

67 49.7 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: VN074443.D

Acq: 13 Sep 2022 19:20

Instrument :

MSVOA\_N

ClientSampleId :

EB01-090122

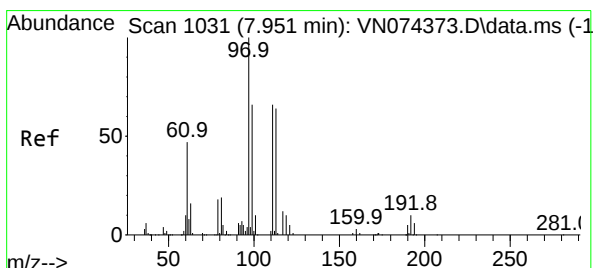
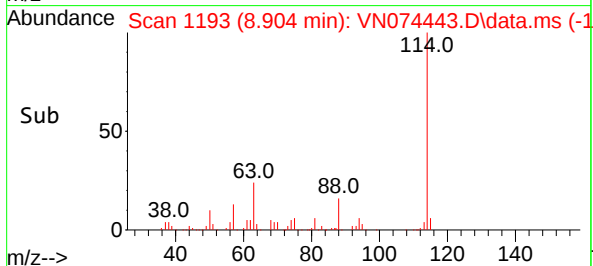
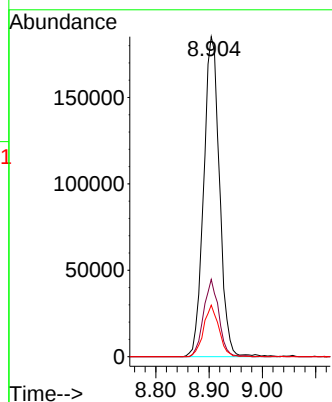
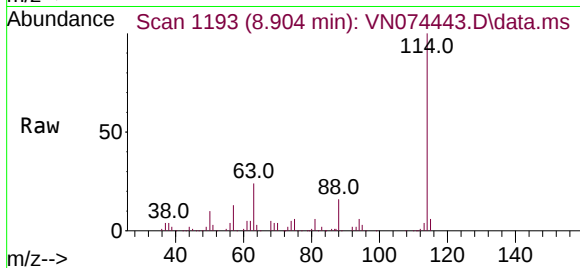
Tgt Ion:114 Resp: 382341

Ion Ratio Lower Upper

114 100

63 24.2 0.0 47.6

88 16.1 0.0 31.4



#35

Dibromofluoromethane

Concen: 54.806 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VN074443.D

Acq: 13 Sep 2022 19:20

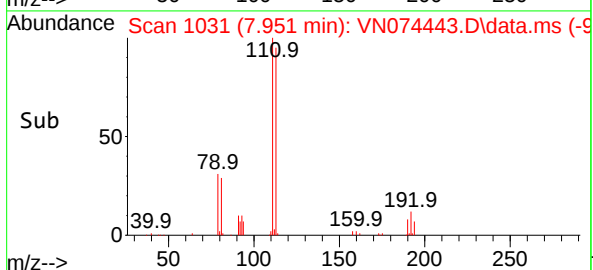
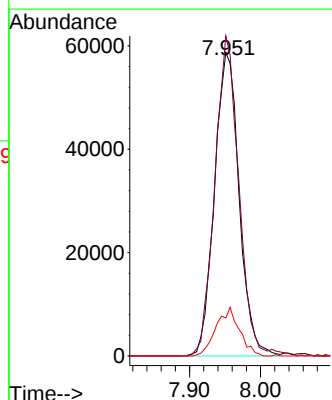
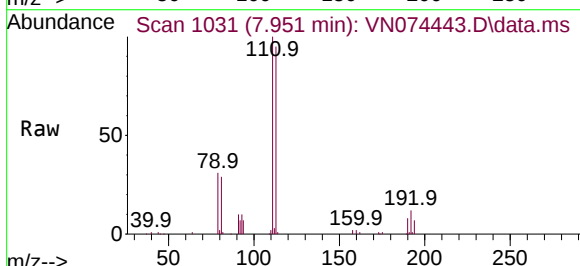
Tgt Ion:113 Resp: 141465

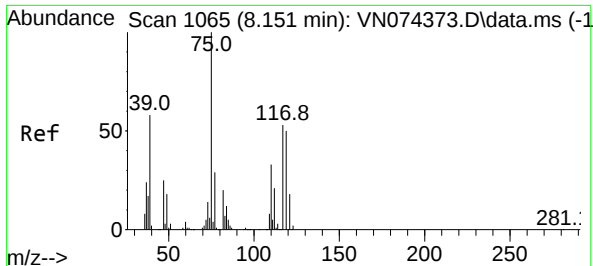
Ion Ratio Lower Upper

113 100

111 102.7 83.0 124.4

192 15.2 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.944 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.135 min

Lab File: VN074443.D

Acq: 13 Sep 2022 19:20

Instrument :

MSVOA\_N

ClientSampleId :

EB01-090122

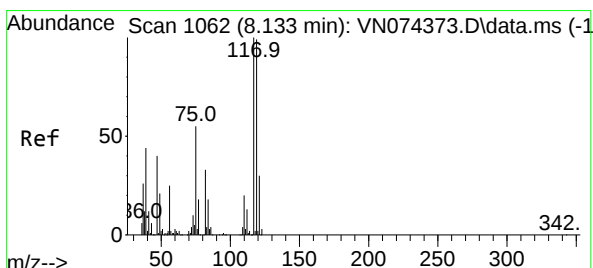
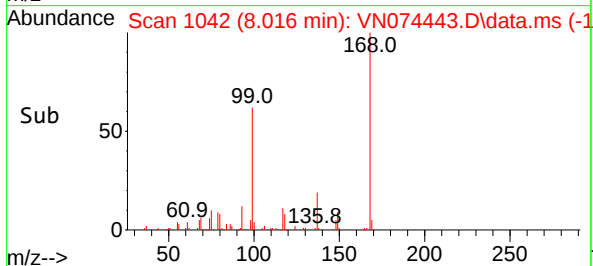
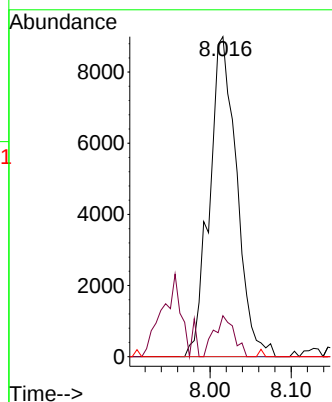
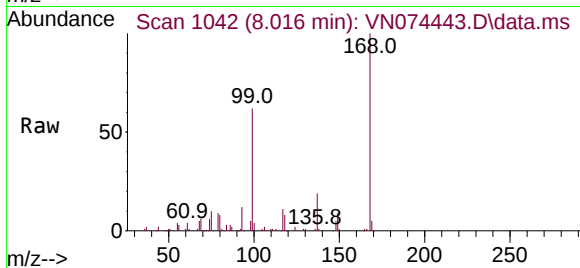
Tgt Ion: 75 Resp: 21023

Ion Ratio Lower Upper

75 100

110 9.4 16.4 49.1#

77 0.0 25.4 38.2#



#38

Carbon Tetrachloride

Concen: 5.300 ug/l

RT: 8.010 min Scan# 1041

Delta R.T. -0.124 min

Lab File: VN074443.D

Acq: 13 Sep 2022 19:20

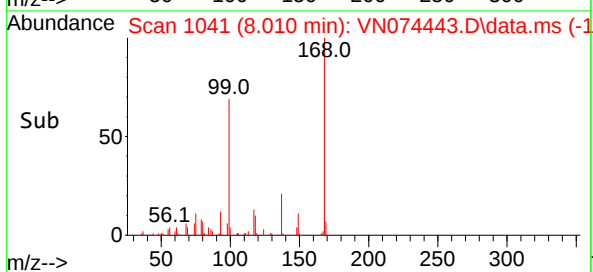
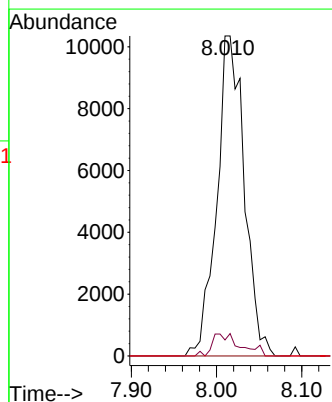
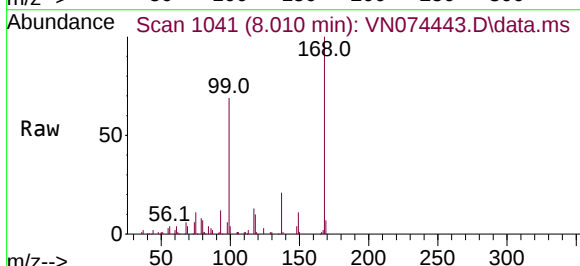
Tgt Ion: 117 Resp: 23268

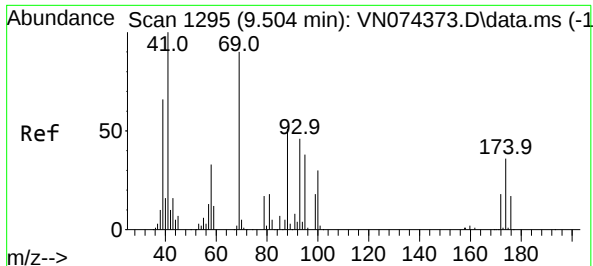
Ion Ratio Lower Upper

117 100

119 5.0 78.8 118.2#

121 0.0 24.1 36.1#

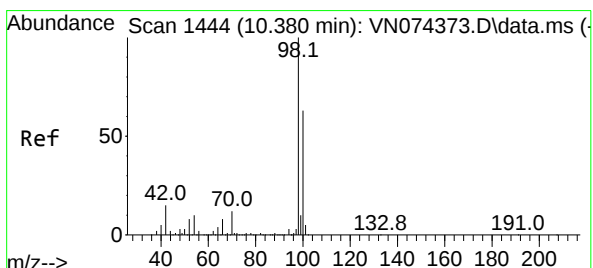
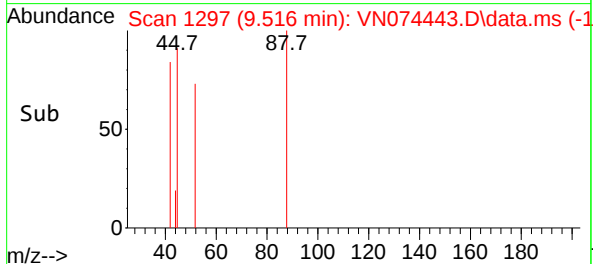
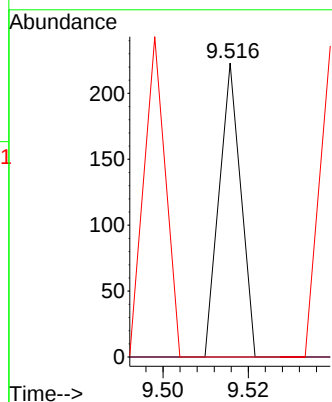
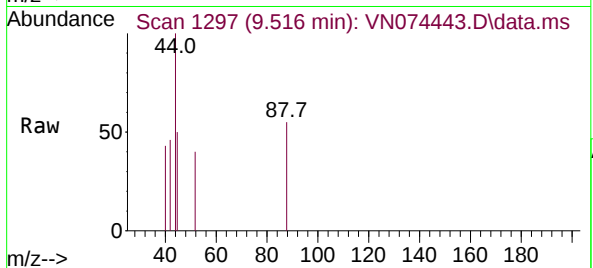




#49  
1,4-Dioxane  
Concen: 0.843 ug/l  
RT: 9.516 min Scan# 1295  
Delta R.T. 0.012 min  
Lab File: VN074443.D  
Acq: 13 Sep 2022 19:20

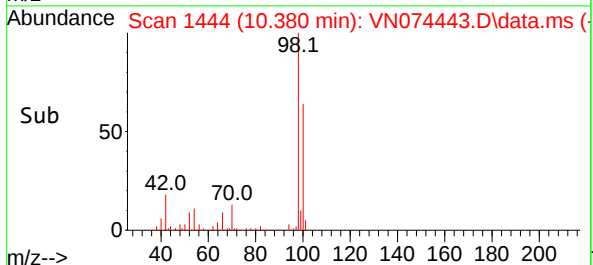
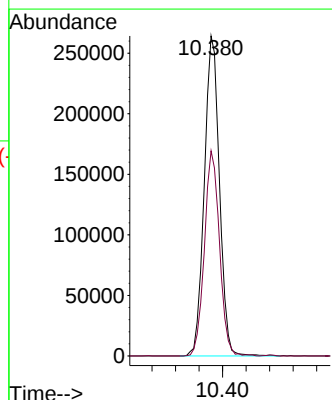
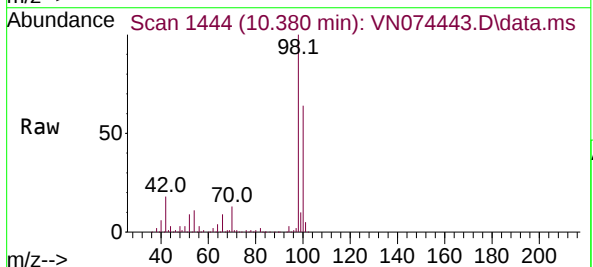
Instrument :  
MSVOA\_N  
ClientSampleId :  
EB01-090122

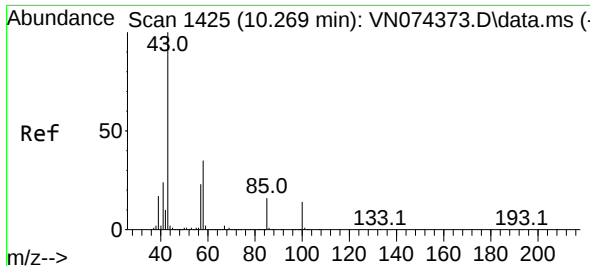
Tgt Ion: 88 Resp: 79  
Ion Ratio Lower Upper  
88 100  
43 0.0 26.9 40.3#  
58 108.9 52.7 79.1#



#50  
Toluene-d8  
Concen: 46.969 ug/l  
RT: 10.380 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: VN074443.D  
Acq: 13 Sep 2022 19:20

Tgt Ion: 98 Resp: 472392  
Ion Ratio Lower Upper  
98 100  
100 63.9 50.6 76.0

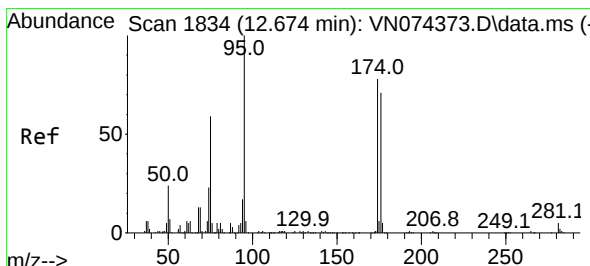
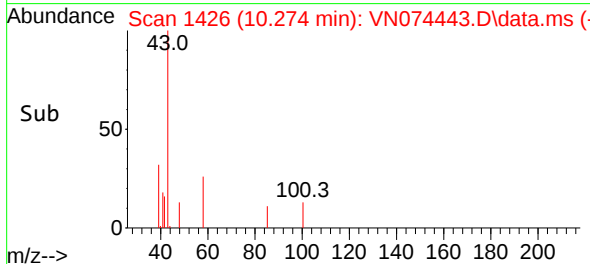
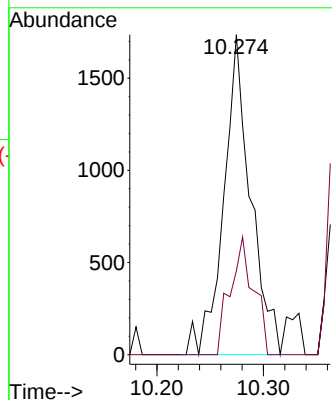
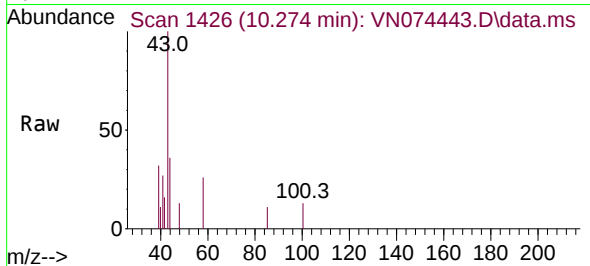




#51  
4-Methyl-2-Pentanone  
Concen: 0.462 ug/l  
RT: 10.274 min Scan# 1425  
Delta R.T. 0.006 min  
Lab File: VN074443.D  
Acq: 13 Sep 2022 19:20

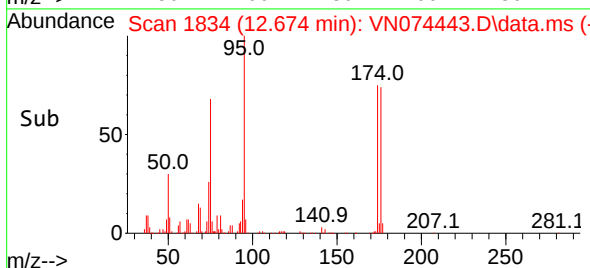
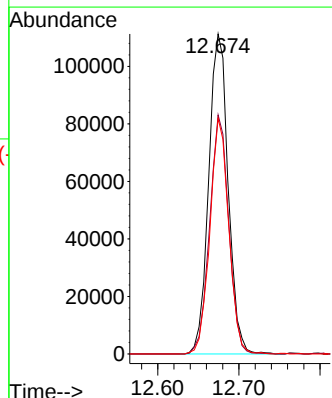
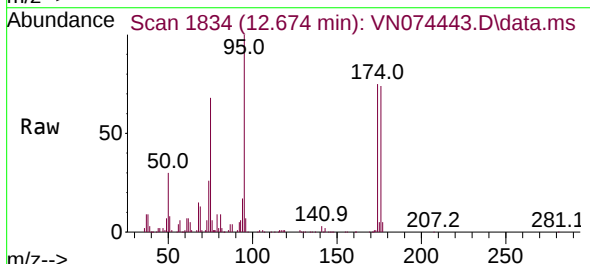
Instrument :  
MSVOA\_N  
ClientSampleId :  
EB01-090122

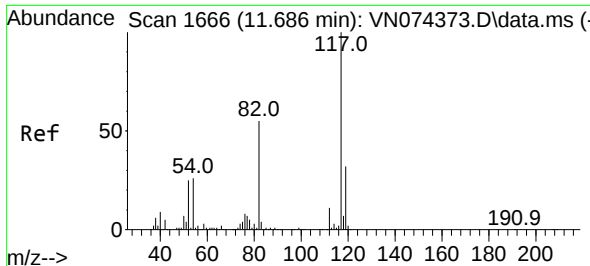
Tgt Ion: 43 Resp: 3045  
Ion Ratio Lower Upper  
43 100  
58 32.1 29.0 43.6



#62  
4-Bromofluorobenzene  
Concen: 50.661 ug/l  
RT: 12.674 min Scan# 1834  
Delta R.T. -0.000 min  
Lab File: VN074443.D  
Acq: 13 Sep 2022 19:20

Tgt Ion: 95 Resp: 184989  
Ion Ratio Lower Upper  
95 100  
174 73.3 0.0 150.6  
176 71.2 0.0 143.4

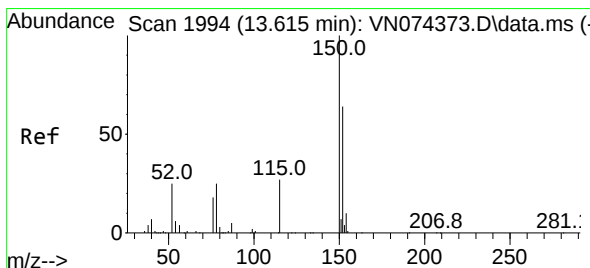
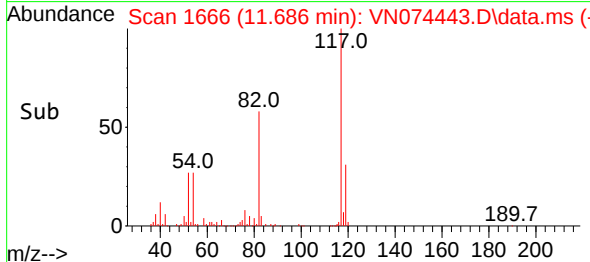
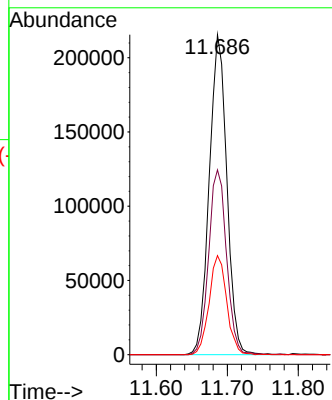
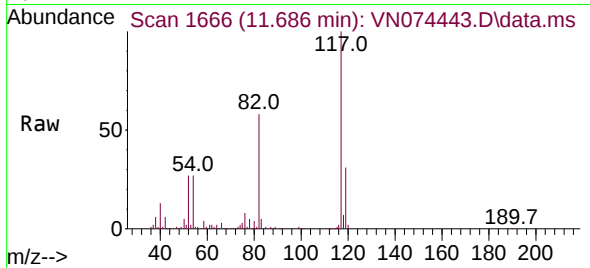




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.686 min Scan# 1170  
Delta R.T. -0.000 min  
Lab File: VN074443.D  
Acq: 13 Sep 2022 19:20

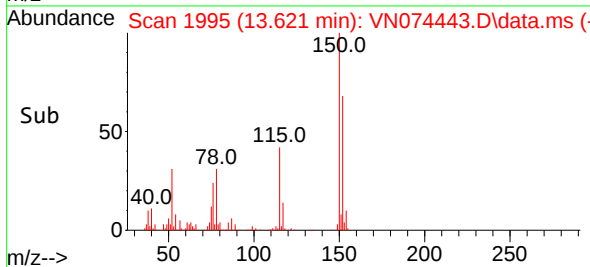
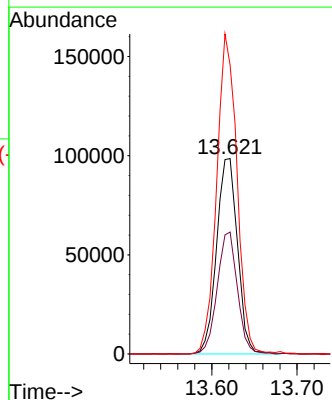
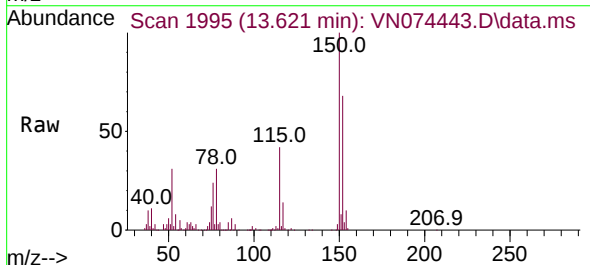
Instrument :  
MSVOA\_N  
ClientSampleId :  
EB01-090122

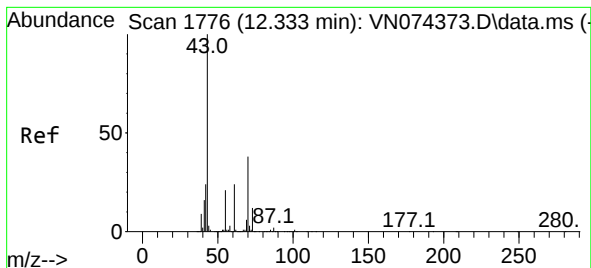
Tgt Ion:117 Resp: 370312  
Ion Ratio Lower Upper  
117 100  
82 57.8 44.3 66.5  
119 30.9 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.621 min Scan# 1995  
Delta R.T. 0.006 min  
Lab File: VN074443.D  
Acq: 13 Sep 2022 19:20

Tgt Ion:152 Resp: 168588  
Ion Ratio Lower Upper  
152 100  
115 60.2 32.0 96.0  
150 158.5 0.0 359.6





#74

N-amy1 acetate

Concen: Below Cal

RT: 12.339 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN074443.D

Acq: 13 Sep 2022 19:20

Instrument :

MSVOA\_N

ClientSampleId :

EB01-090122

Tgt Ion: 43 Resp: 110

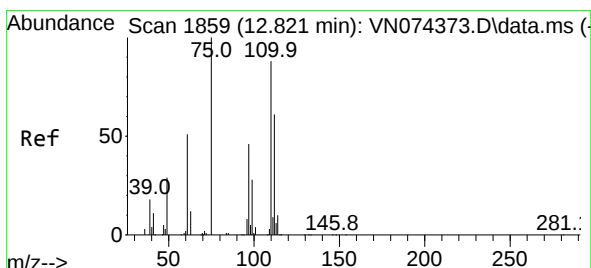
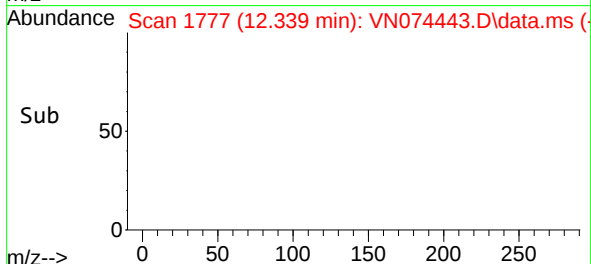
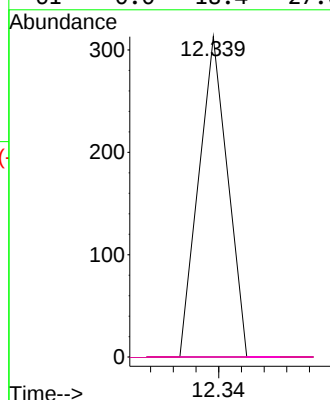
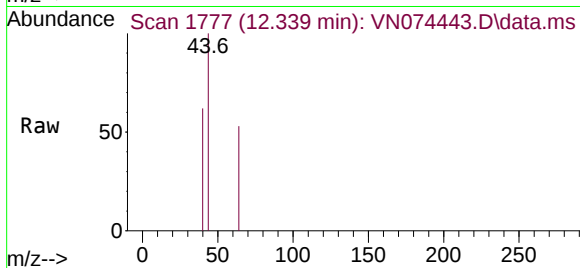
Ion Ratio Lower Upper

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: 27.076 ug/l

RT: 12.674 min Scan# 1834

Delta R.T. -0.147 min

Lab File: VN074443.D

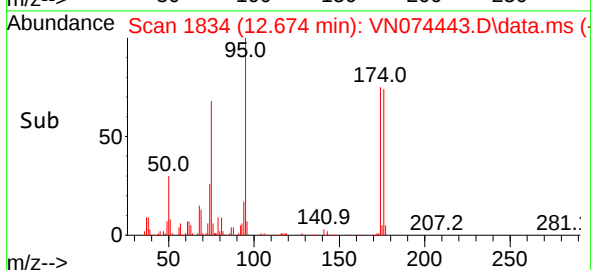
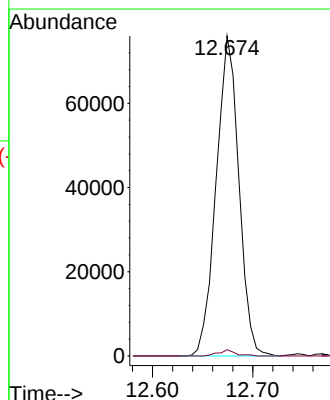
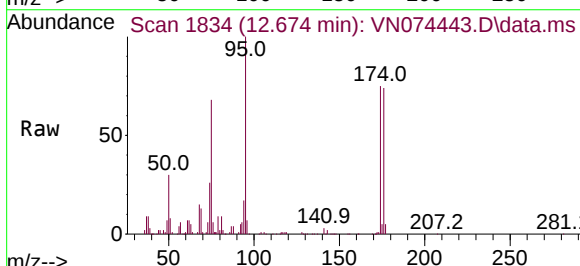
Acq: 13 Sep 2022 19:20

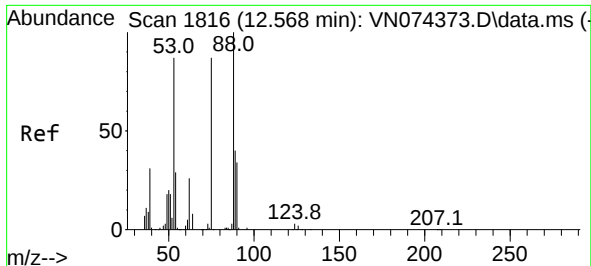
Tgt Ion: 75 Resp: 119330

Ion Ratio Lower Upper

75 100

77 1.4 78.9 236.7#

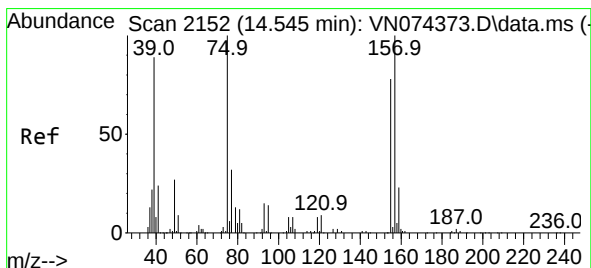
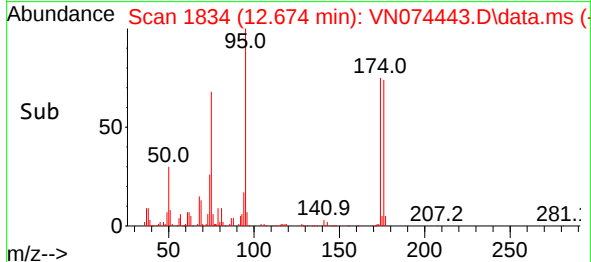
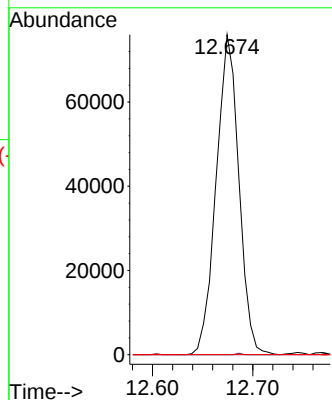
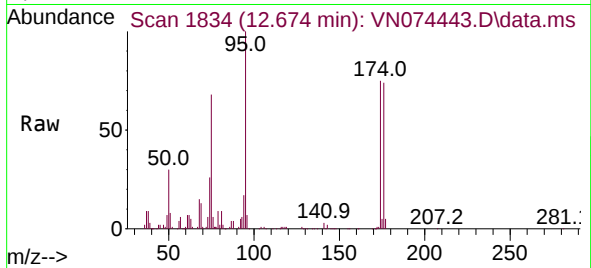




#81  
trans-1,4-Dichloro-2-butene  
Concen: 60.352 ug/l  
RT: 12.674 min Scan# 11  
Delta R.T. 0.106 min  
Lab File: VN074443.D  
Acq: 13 Sep 2022 19:20

Instrument :  
MSVOA\_N  
ClientSampleId :  
EB01-090122

Tgt Ion: 75 Resp: 119330  
Ion Ratio Lower Upper  
75 100  
53 0.1 82.2 123.2#  
89 0.0 37.7 56.5#



#92  
1,2-Dibromo-3-Chloropropane  
Concen: Below Cal  
RT: 14.798 min Scan# 2195  
Delta R.T. 0.253 min  
Lab File: VN074443.D  
Acq: 13 Sep 2022 19:20

Tgt Ion: 75 Resp: 71  
Ion Ratio Lower Upper  
75 100  
155 0.0 36.6 109.9#  
157 0.0 46.2 138.5#

