

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU060222\  
 Data File : VU048834.D  
 Acq On : 03 Jun 2022 04:02  
 Operator : SY/MD  
 Sample : N3112-08  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 43 Sample Multiplier: 1

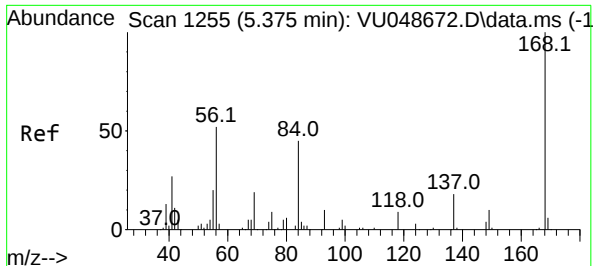
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MH-121.5N-20220527

Quant Time: Jun 03 04:35:54 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U052622W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 27 06:42:31 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 5.372          | 168  | 329265     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.247          | 114  | 523613     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 9.417          | 117  | 495786     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.812         | 152  | 224559     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.700          | 65   | 233386     | 47.197    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 94.400%   |        |          |
| 35) Dibromofluoromethane      | 5.288          | 113  | 177880     | 47.618    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 95.240%   |        |          |
| 50) Toluene-d8                | 7.896          | 98   | 665710     | 49.714    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 99.420%   |        |          |
| 62) 4-Bromofluorobenzene      | 10.632         | 95   | 222778     | 43.990    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 87.980%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 5) Bromomethane               | 1.838          | 94   | 297        | Below Cal |        | 99       |
| 6) Chloroethane               | 1.954          | 64   | 478        | Below Cal | #      | 43       |
| 10) Methyl Iodide             | 2.729          | 142  | 125        | 3.027     | ug/l # | 37       |
| 11) Tert butyl alcohol        | 3.182          | 59   | 3883       | 3.097     | ug/l # | 28       |
| 13) Acrolein                  | 2.485          | 56   | 65         | Below Cal | #      | 14       |
| 14) Allyl chloride            | 2.755          | 41   | 4501       | 0.693     | ug/l # | 58       |
| 16) Acetone                   | 2.626          | 43   | 4455       | 1.768     | ug/l   | 93       |
| 25) 2-Butanone                | 4.713          | 43   | 824        | 0.228     | ug/l # | 79       |
| 27) cis-1,2-Dichloroethene    | 4.674          | 96   | 2169       | 0.489     | ug/l   | 86       |
| 31) Cyclohexane               | 5.369          | 56   | 7026       | 1.127     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.369          | 75   | 27418      | 5.029     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.372          | 117  | 34339      | 5.490     | ug/l # | 17       |
| 44) Trichloroethene           | 6.539          | 130  | 2264       | 0.546     | ug/l   | 79       |
| 74) N-amyl acetate            | 10.259         | 43   | 66         | 2.475     | ug/l # | 41       |
| 76) 1,2,3-Trichloropropane    | 10.632         | 75   | 114307     | 15.788    | ug/l # | 47       |
| 81) trans-1,4-Dichloro-2-b... | 10.632         | 75   | 114307     | 57.323    | ug/l # | 13       |
| 84) 1,2,4-Trimethylbenzene    | 11.472         | 105  | 306        | 1.209     | ug/l # | 31       |
| 89) n-Butylbenzene            | 12.208         | 91   | 73         | 2.191     | ug/l # | 34       |
| 95) Naphthalene               | 14.092         | 128  | 6912       | 2.904     | ug/l   | 97       |
| -----                         |                |      |            |           |        |          |

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

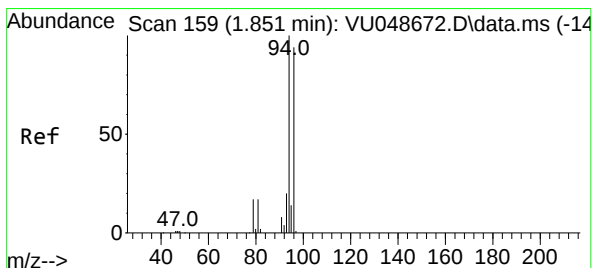
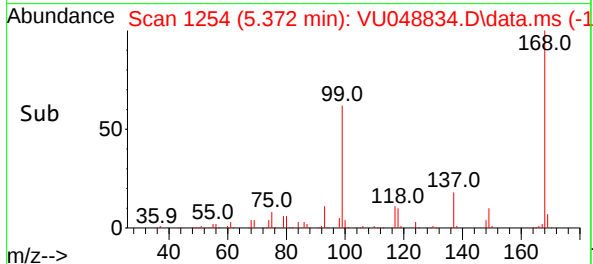
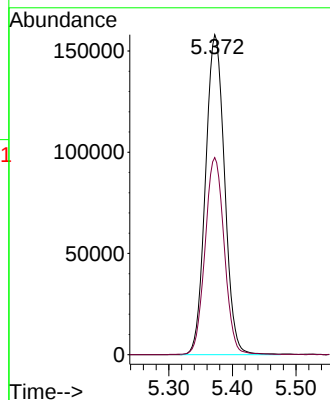
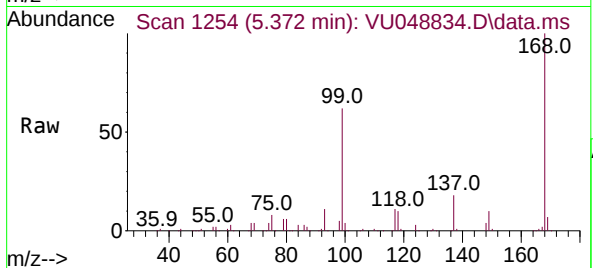




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.372 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: VU048834.D  
Acq: 03 Jun 2022 04:02

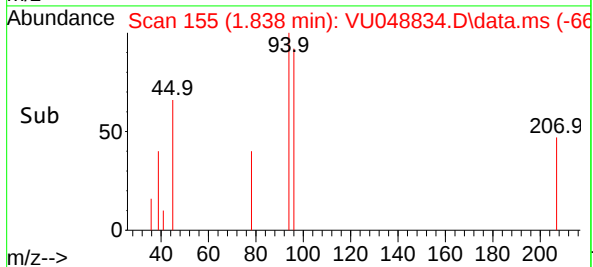
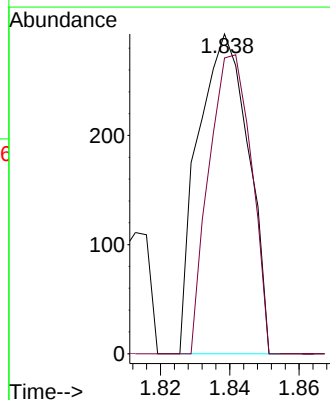
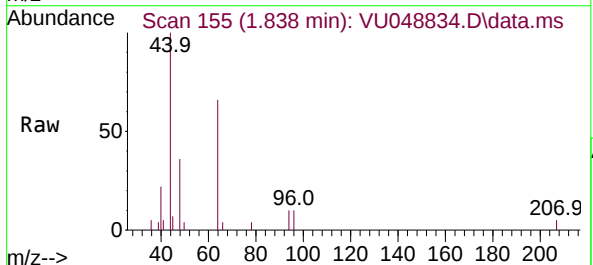
Instrument :  
MSVOA\_U  
ClientSampleId :  
MH-121.5N-20220527

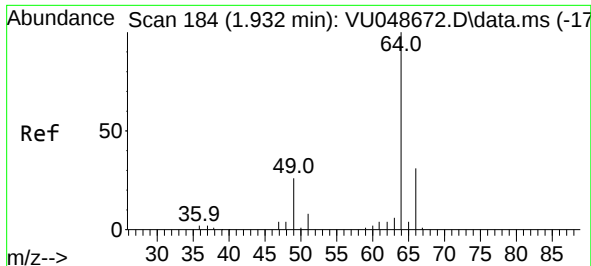
Tgt Ion:168 Resp: 329265  
Ion Ratio Lower Upper  
168 100  
99 61.5 49.3 73.9



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.838 min Scan# 155  
Delta R.T. -0.013 min  
Lab File: VU048834.D  
Acq: 03 Jun 2022 04:02

Tgt Ion: 94 Resp: 297  
Ion Ratio Lower Upper  
94 100  
96 92.5 75.1 112.7

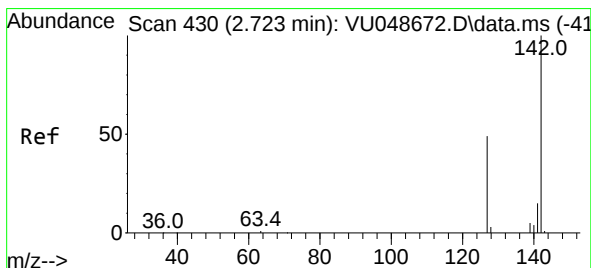
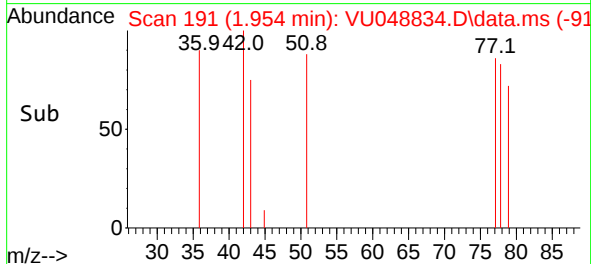
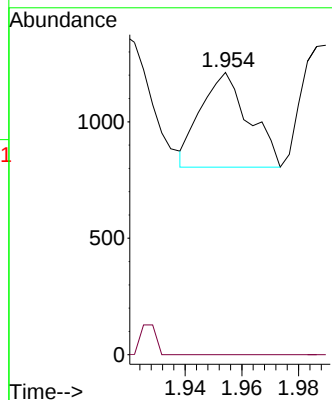
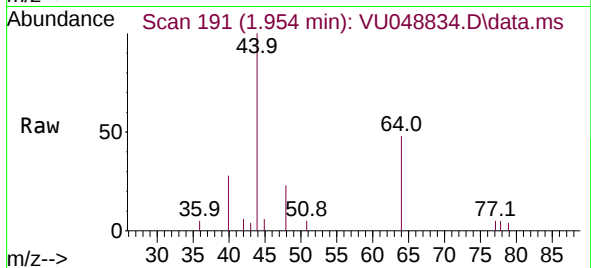




#6  
Chloroethane  
Concen: Below Cal  
RT: 1.954 min Scan# 191  
Delta R.T. 0.022 min  
Lab File: VU048834.D  
Acq: 03 Jun 2022 04:02

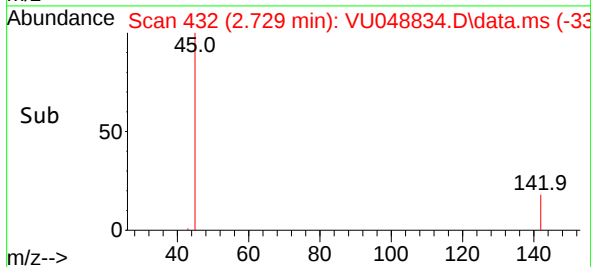
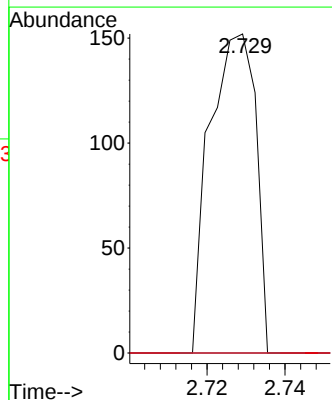
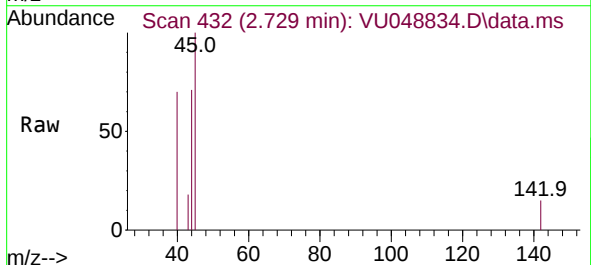
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ClientSampleId :  
MH-121.5N-20220527

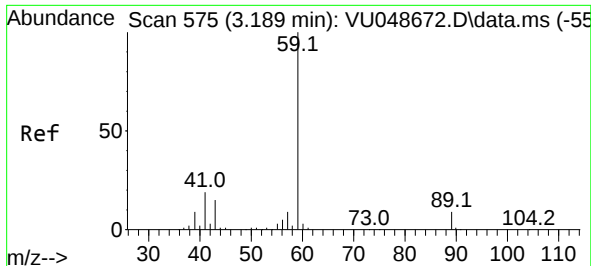
Tgt Ion: 64 Resp: 478  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.2 37.8#



#10  
Methyl Iodide  
Concen: 3.027 ug/l  
RT: 2.729 min Scan# 432  
Delta R.T. 0.006 min  
Lab File: VU048834.D  
Acq: 03 Jun 2022 04:02

Tgt Ion: 142 Resp: 125  
Ion Ratio Lower Upper  
142 100  
127 0.0 38.4 57.6#  
141 0.0 11.5 17.3#





#11

Tert butyl alcohol

Concen: 3.097 ug/l

RT: 3.182 min Scan# 51

Delta R.T. -0.006 min

Lab File: VU048834.D

Acq: 03 Jun 2022 04:02

Instrument :

MSVOA\_U

ClientSampleId :

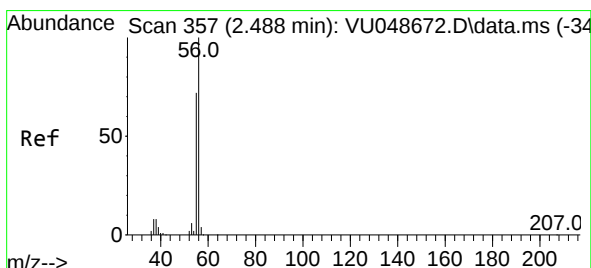
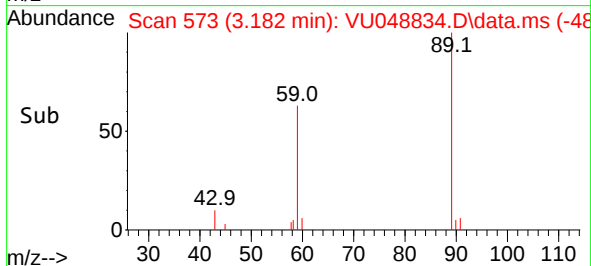
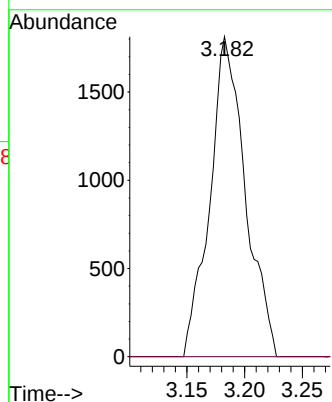
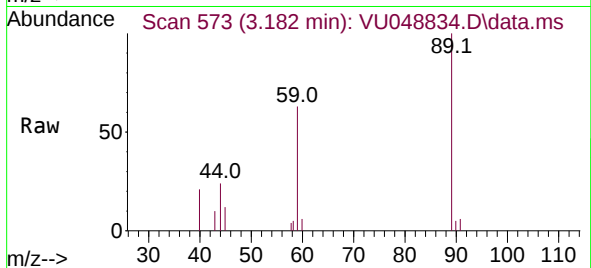
MH-121.5N-20220527

Tgt Ion: 59 Resp: 3883

Ion Ratio Lower Upper

59 100

57 0.0 39.7 59.5#



#13

Acrolein

Concen: Below Cal

RT: 2.485 min Scan# 356

Delta R.T. -0.003 min

Lab File: VU048834.D

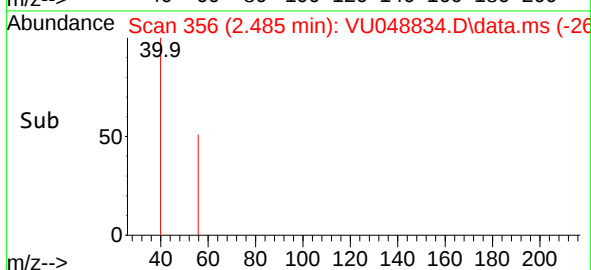
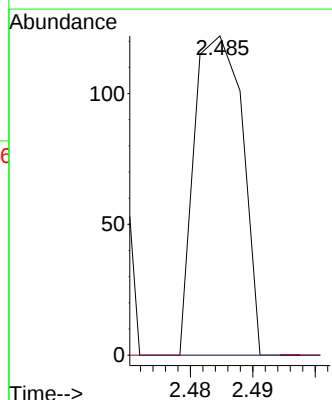
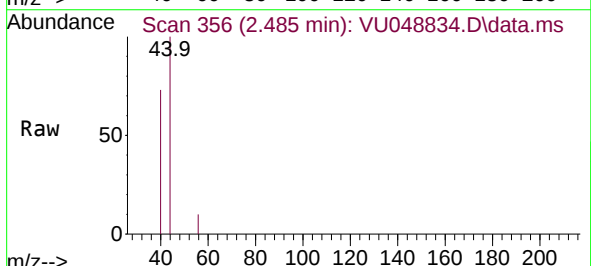
Acq: 03 Jun 2022 04:02

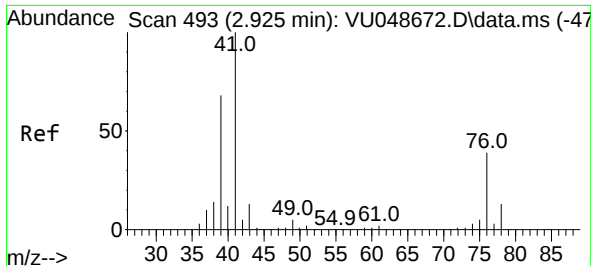
Tgt Ion: 56 Resp: 65

Ion Ratio Lower Upper

56 100

55 0.0 57.7 86.5#

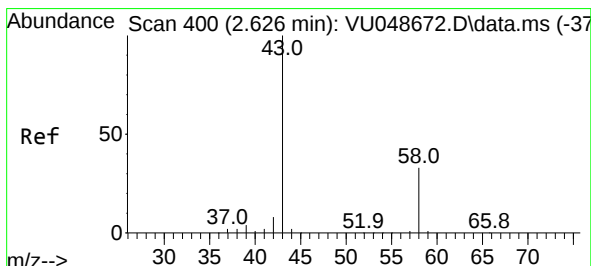
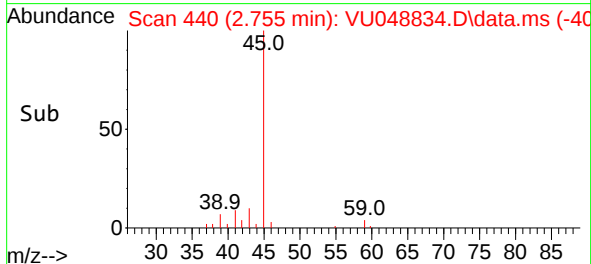
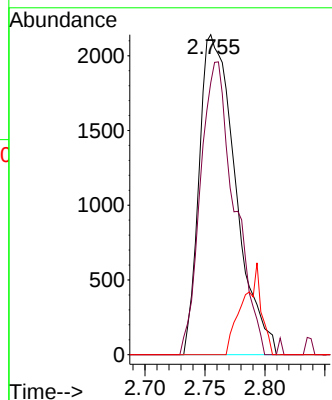
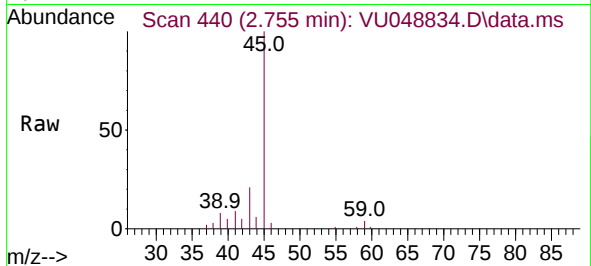




#14  
 Allyl chloride  
 Concen: 0.693 ug/l  
 RT: 2.755 min Scan# 41  
 Delta R.T. -0.170 min  
 Lab File: VU048834.D  
 Acq: 03 Jun 2022 04:02

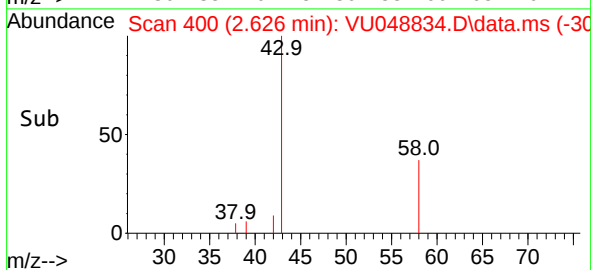
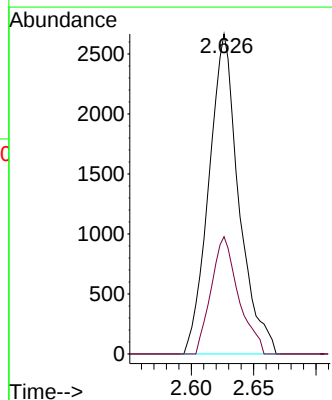
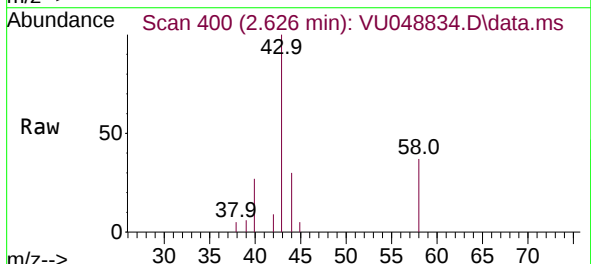
Instrument :  
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 MH-121.5N-20220527

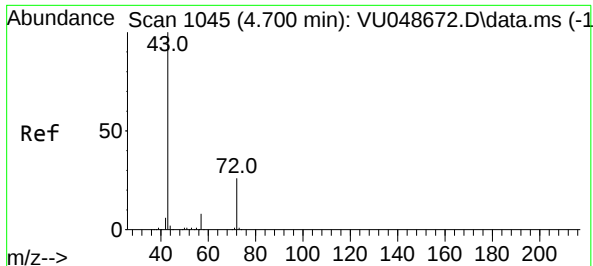
Tgt Ion: 41 Resp: 4501  
 Ion Ratio Lower Upper  
 41 100  
 39 85.8 48.6 72.8#  
 76 0.0 27.0 40.4#



#16  
 Acetone  
 Concen: 1.768 ug/l  
 RT: 2.626 min Scan# 400  
 Delta R.T. 0.000 min  
 Lab File: VU048834.D  
 Acq: 03 Jun 2022 04:02

Tgt Ion: 43 Resp: 4455  
 Ion Ratio Lower Upper  
 43 100  
 58 36.6 26.3 39.5

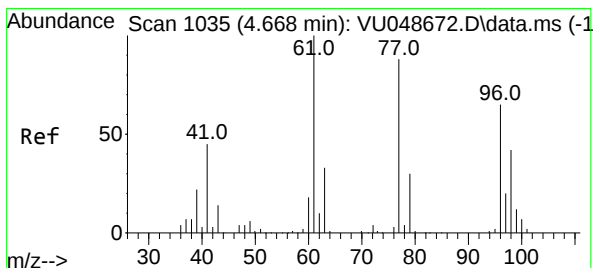
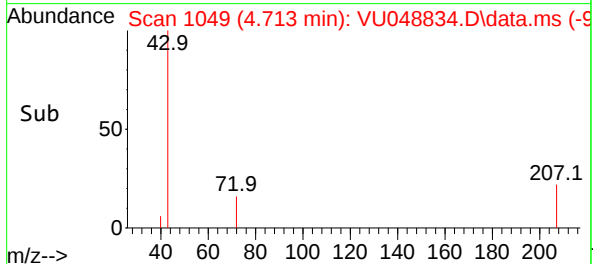
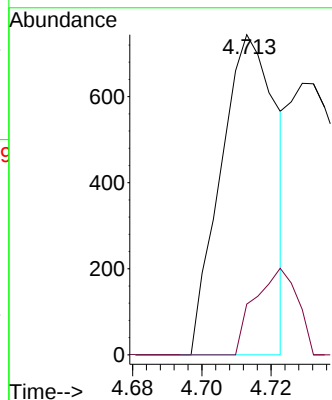
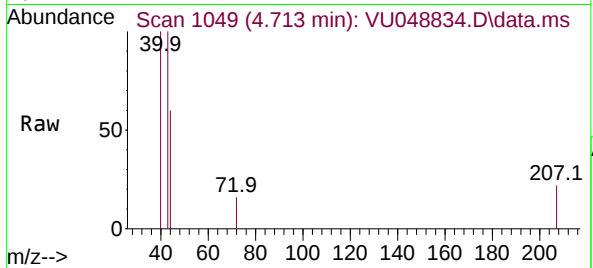




#25  
2-Butanone  
Concen: 0.228 ug/l  
RT: 4.713 min Scan# 1049  
Delta R.T. 0.013 min  
Lab File: VU048834.D  
Acq: 03 Jun 2022 04:02

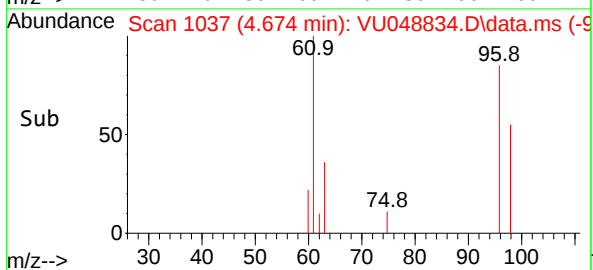
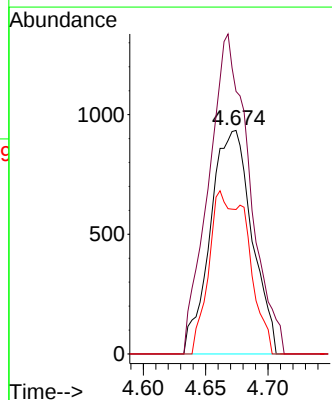
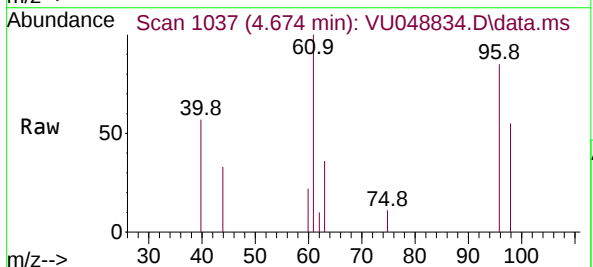
Instrument :  
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ClientSampleId :  
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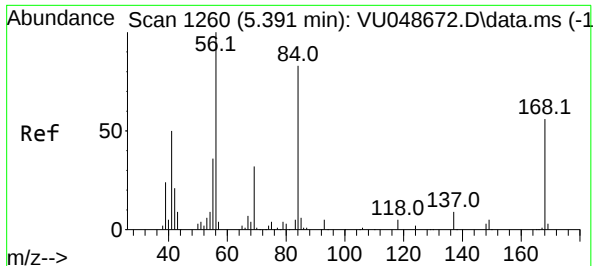
Tgt Ion: 43 Resp: 824  
Ion Ratio Lower Upper  
43 100  
72 15.9 21.1 31.7#



#27  
cis-1,2-Dichloroethene  
Concen: 0.489 ug/l  
RT: 4.674 min Scan# 1037  
Delta R.T. 0.006 min  
Lab File: VU048834.D  
Acq: 03 Jun 2022 04:02

Tgt Ion: 96 Resp: 2169  
Ion Ratio Lower Upper  
96 100  
61 140.5 0.0 306.2  
98 45.2 0.0 130.4

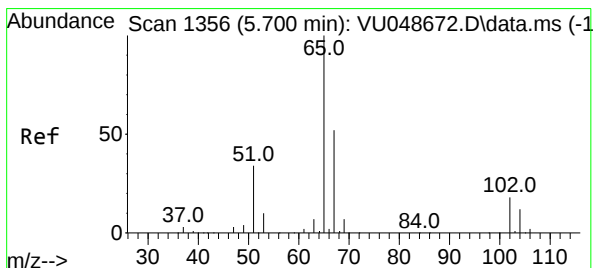
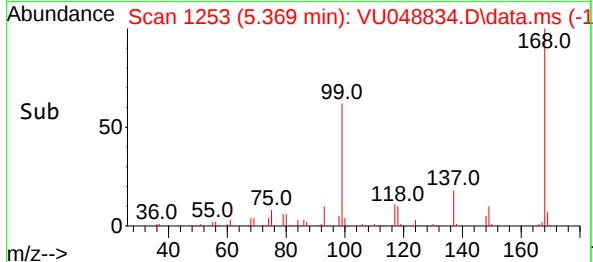
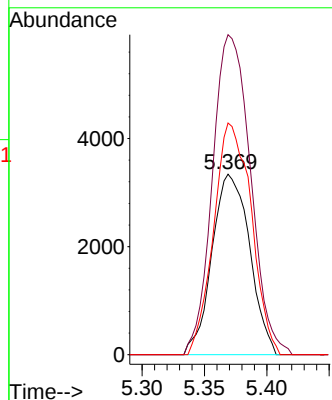
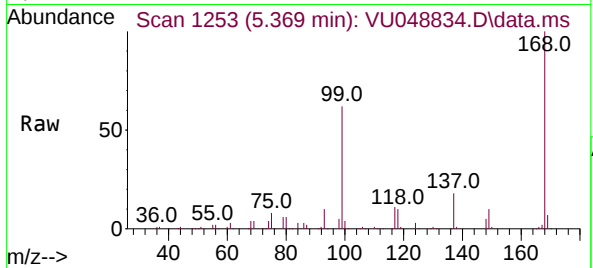




#31  
Cyclohexane  
Concen: 1.127 ug/l  
RT: 5.369 min Scan# 1253  
Delta R.T. -0.022 min  
Lab File: VU048834.D  
Acq: 03 Jun 2022 04:02

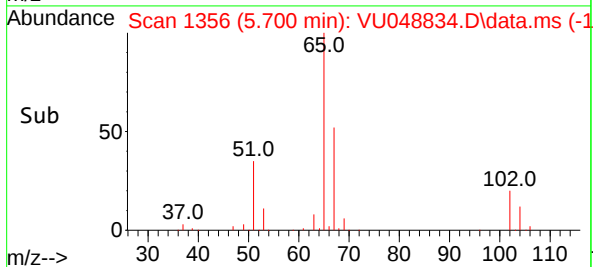
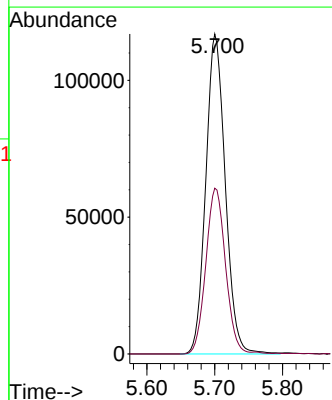
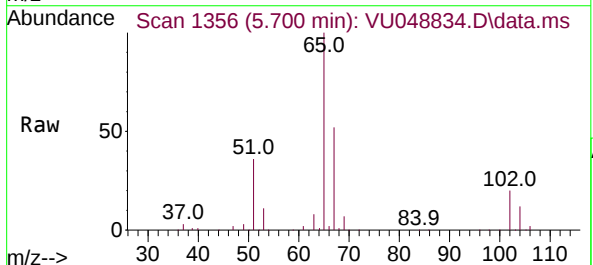
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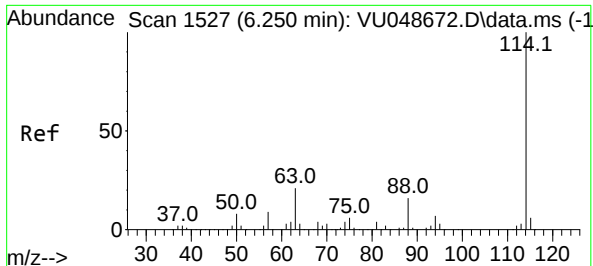
Tgt Ion: 56 Resp: 7026  
Ion Ratio Lower Upper  
56 100  
69 177.3 25.6 38.4#  
84 128.3 66.2 99.4#



#33  
1,2-Dichloroethane-d4  
Concen: 47.197 ug/l  
RT: 5.700 min Scan# 1356  
Delta R.T. 0.000 min  
Lab File: VU048834.D  
Acq: 03 Jun 2022 04:02

Tgt Ion: 65 Resp: 233386  
Ion Ratio Lower Upper  
65 100  
67 52.3 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.247 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU048834.D

Acq: 03 Jun 2022 04:02

Instrument :

MSVOA\_U

ClientSampleId :

MH-121.5N-20220527

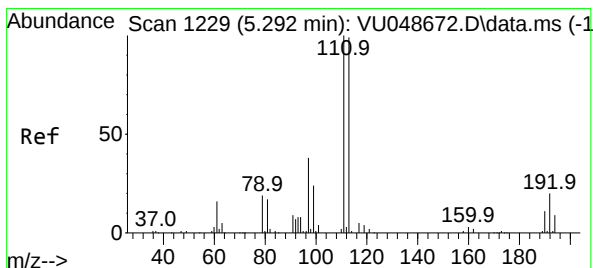
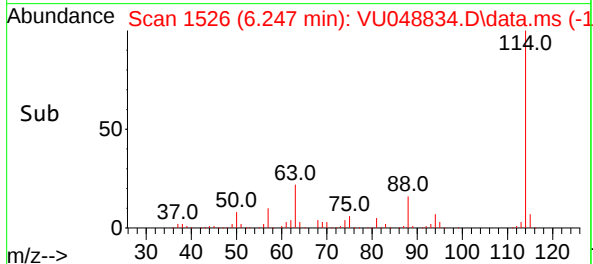
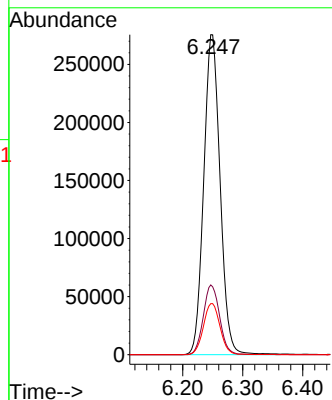
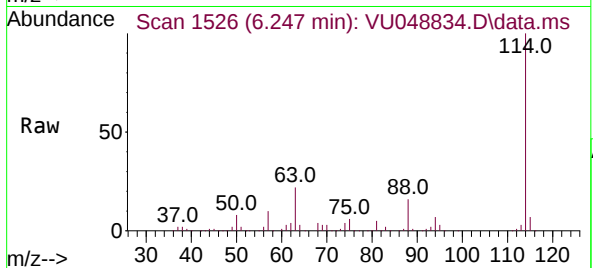
Tgt Ion:114 Resp: 523613

Ion Ratio Lower Upper

114 100

63 21.8 0.0 42.6

88 15.9 0.0 32.2



#35

Dibromofluoromethane

Concen: 47.618 ug/l

RT: 5.288 min Scan# 1228

Delta R.T. -0.003 min

Lab File: VU048834.D

Acq: 03 Jun 2022 04:02

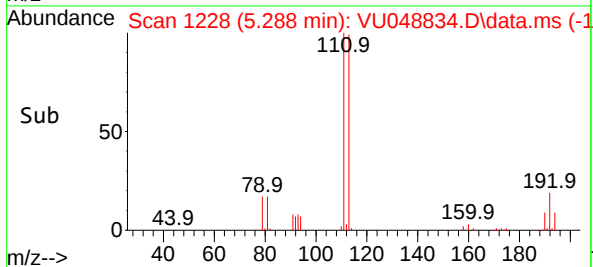
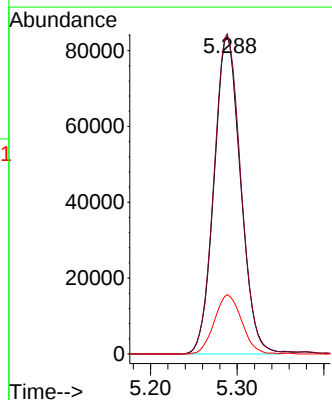
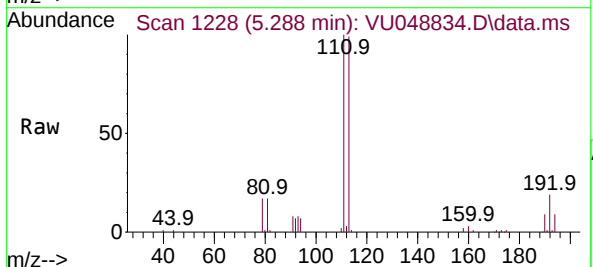
Tgt Ion:113 Resp: 177880

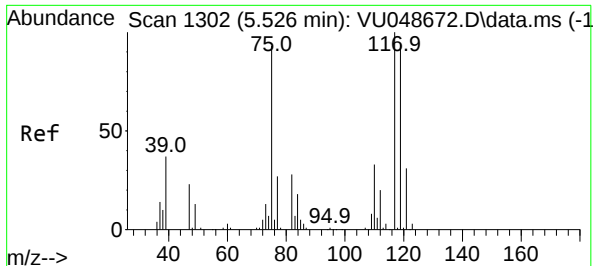
Ion Ratio Lower Upper

113 100

111 102.2 80.7 121.1

192 19.2 15.9 23.9





#36

1,1-Dichloropropene

Concen: 5.029 ug/l

RT: 5.369 min Scan# 1253

Delta R.T. -0.158 min

Lab File: VU048834.D

Acq: 03 Jun 2022 04:02

Instrument :

MSVOA\_U

ClientSampleId :

MH-121.5N-20220527

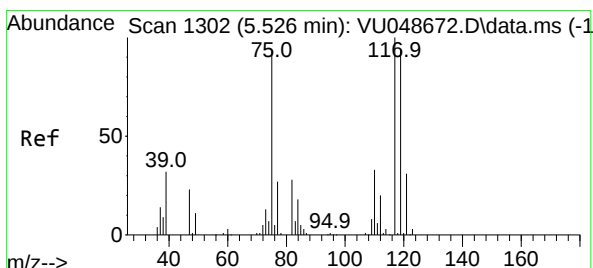
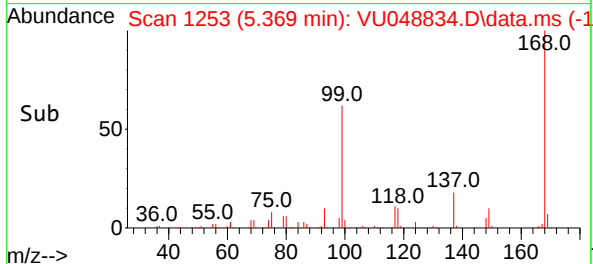
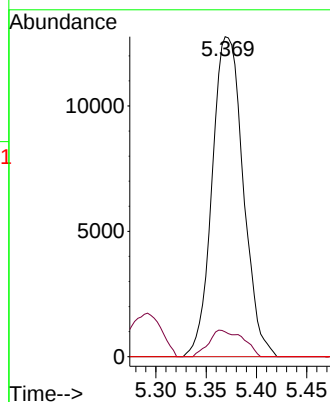
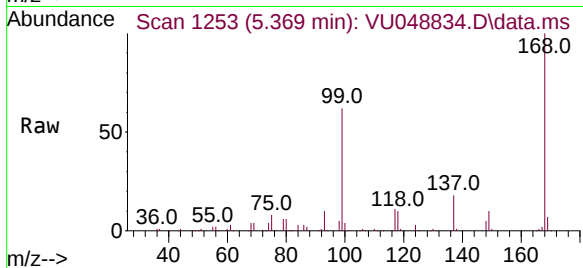
Tgt Ion: 75 Resp: 27418

Ion Ratio Lower Upper

75 100

110 9.1 17.4 52.3#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 5.490 ug/l

RT: 5.372 min Scan# 1254

Delta R.T. -0.154 min

Lab File: VU048834.D

Acq: 03 Jun 2022 04:02

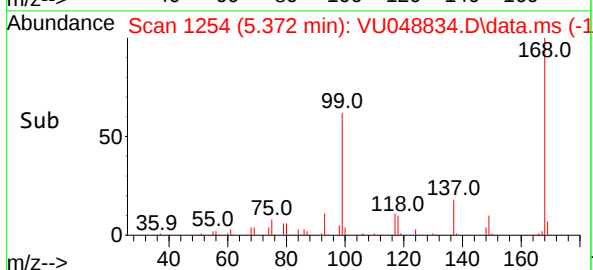
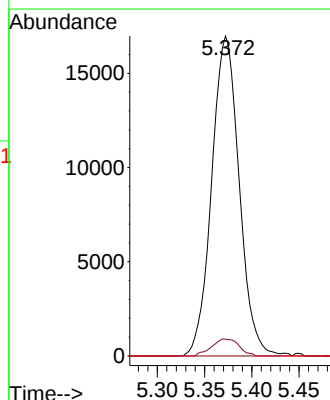
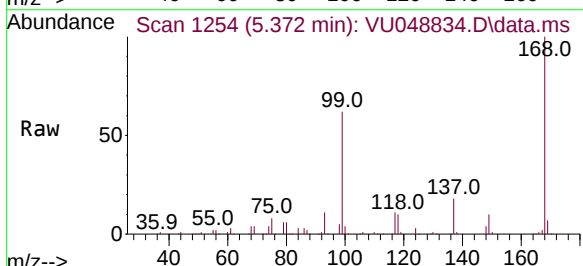
Tgt Ion: 117 Resp: 34339

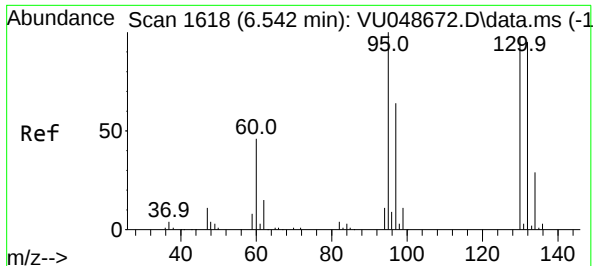
Ion Ratio Lower Upper

117 100

119 5.2 75.4 113.2#

121 0.0 24.6 36.8#

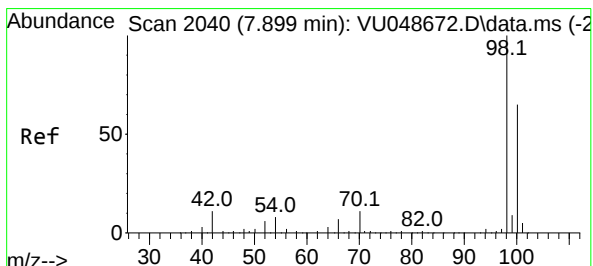
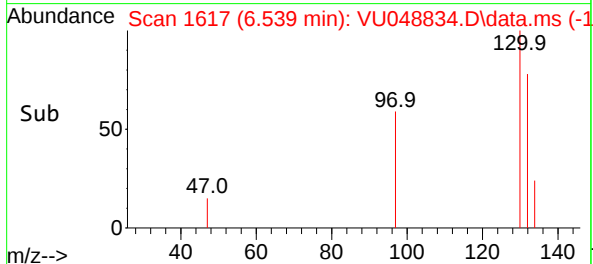
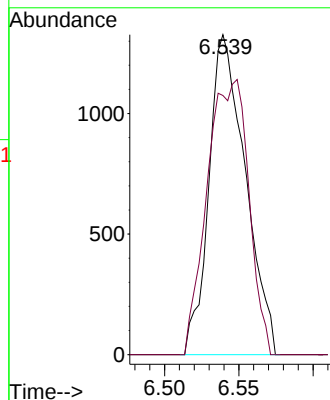
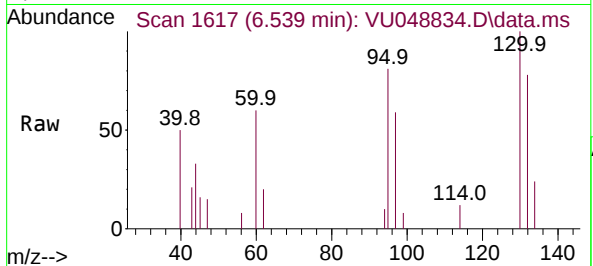




#44  
Trichloroethene  
Concen: 0.546 ug/l  
RT: 6.539 min Scan# 1  
Delta R.T. -0.003 min  
Lab File: VU048834.D  
Acq: 03 Jun 2022 04:02

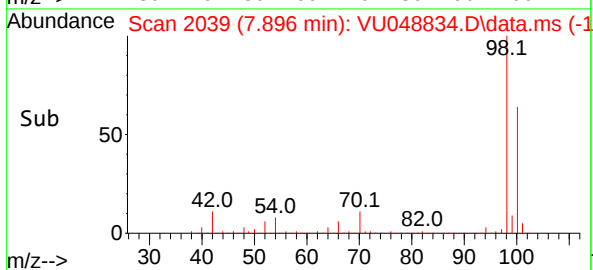
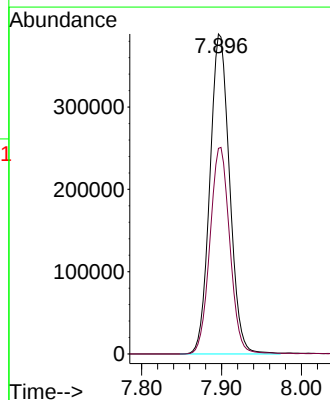
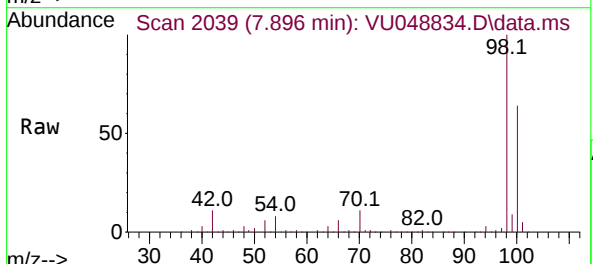
Instrument :  
MSVOA\_U  
ClientSampleId :  
MH-121.5N-20220527

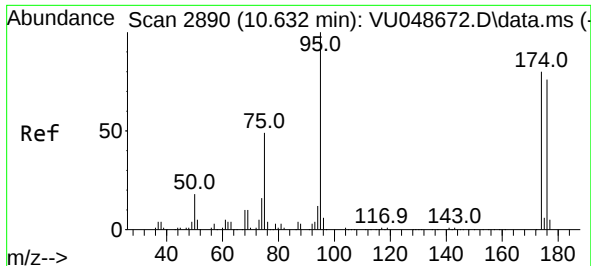
Tgt Ion:130 Resp: 2264  
Ion Ratio Lower Upper  
130 100  
95 81.0 0.0 204.8



#50  
Toluene-d8  
Concen: 49.714 ug/l  
RT: 7.896 min Scan# 2039  
Delta R.T. -0.003 min  
Lab File: VU048834.D  
Acq: 03 Jun 2022 04:02

Tgt Ion: 98 Resp: 665710  
Ion Ratio Lower Upper  
98 100  
100 65.0 52.2 78.4

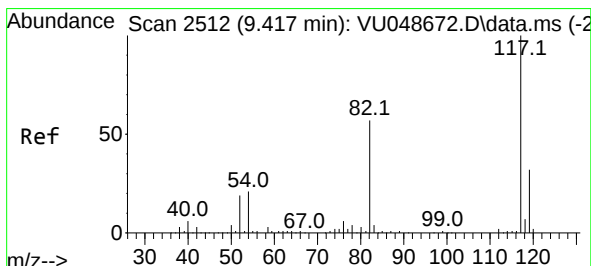
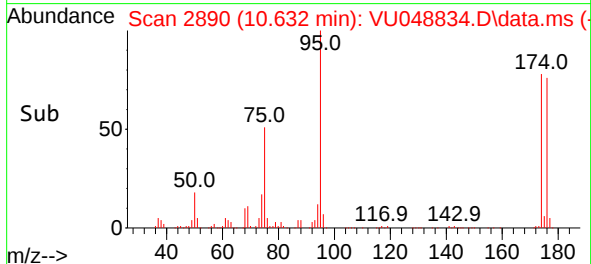
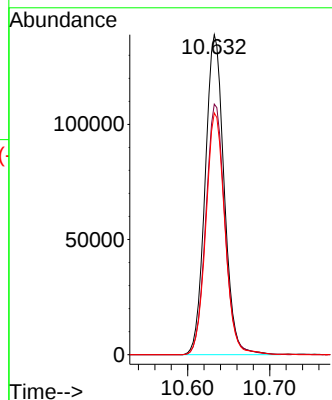
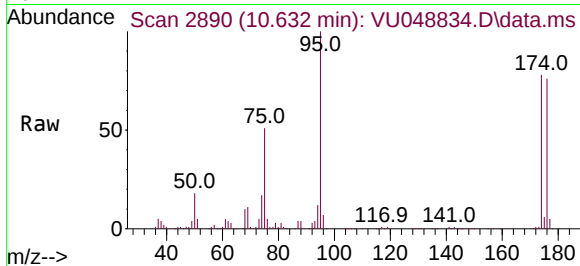




#62  
4-Bromofluorobenzene  
Concen: 43.990 ug/l  
RT: 10.632 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU048834.D  
Acq: 03 Jun 2022 04:02

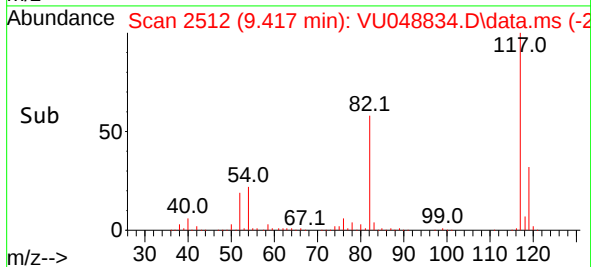
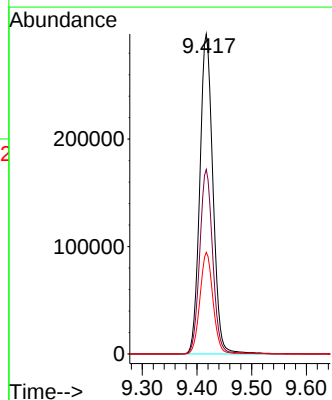
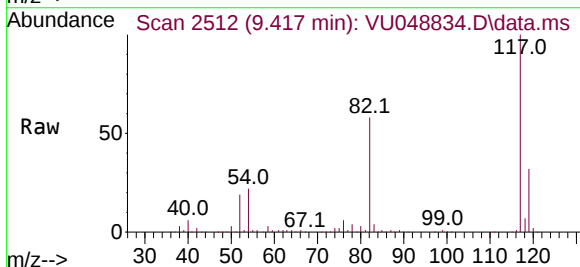
Instrument :  
MSVOA\_U  
ClientSampleId :  
MH-121.5N-20220527

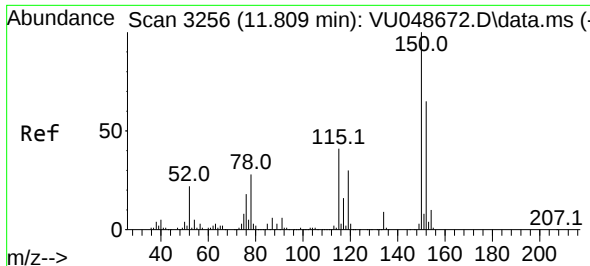
Tgt Ion: 95 Resp: 222778  
Ion Ratio Lower Upper  
95 100  
174 79.0 0.0 159.4  
176 75.8 0.0 152.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.417 min Scan# 2512  
Delta R.T. -0.000 min  
Lab File: VU048834.D  
Acq: 03 Jun 2022 04:02

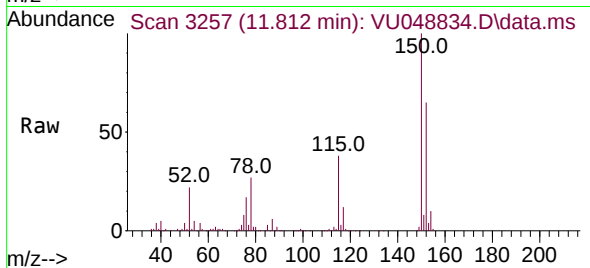
Tgt Ion: 117 Resp: 495786  
Ion Ratio Lower Upper  
117 100  
82 57.7 45.3 67.9  
119 31.7 25.4 38.2



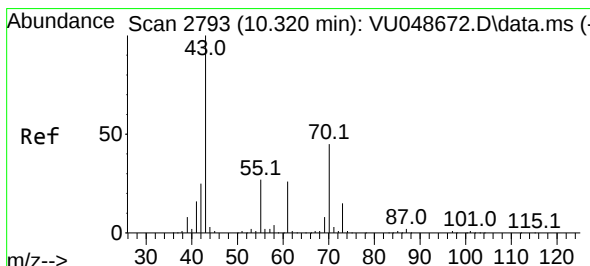
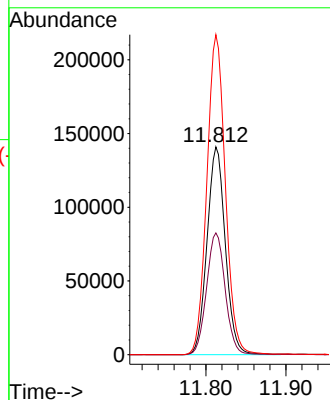
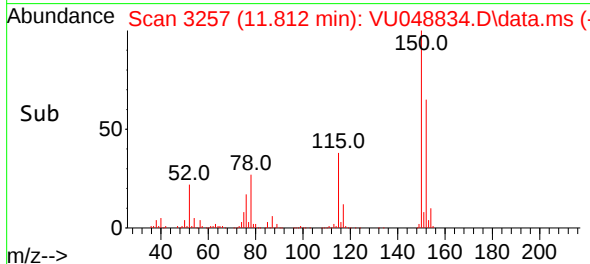


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.812 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VU048834.D  
Acq: 03 Jun 2022 04:02

Instrument :  
MSVOA\_U  
ClientSampleId :  
MH-121.5N-20220527

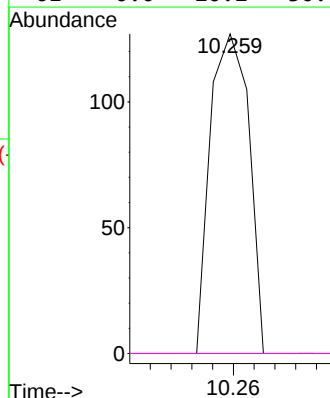
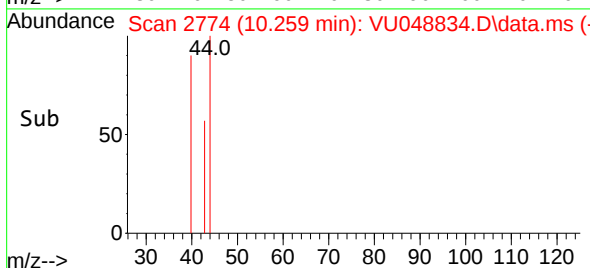
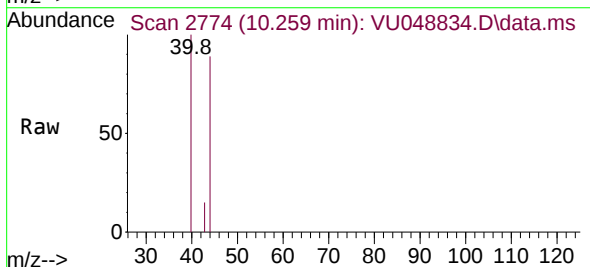


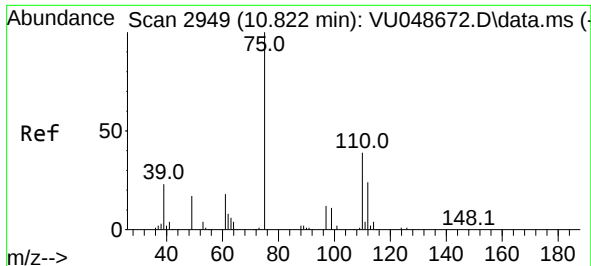
Tgt Ion:152 Resp: 224559  
Ion Ratio Lower Upper  
152 100  
115 59.6 41.8 125.4  
150 155.4 0.0 341.0



#74  
N-ethyl acetate  
Concen: 2.475 ug/l  
RT: 10.259 min Scan# 2774  
Delta R.T. -0.061 min  
Lab File: VU048834.D  
Acq: 03 Jun 2022 04:02

Tgt Ion: 43 Resp: 66  
Ion Ratio Lower Upper  
43 100  
70 0.0 35.8 53.6#  
55 0.0 21.1 31.7#  
61 0.0 20.2 30.4#

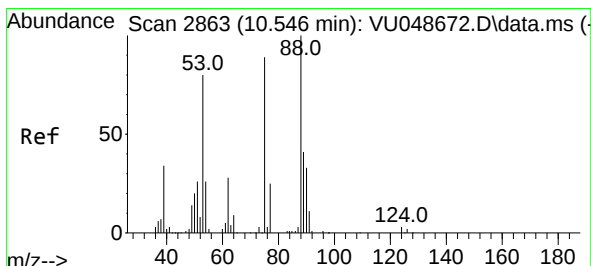
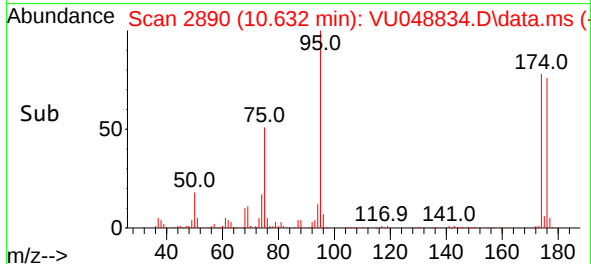
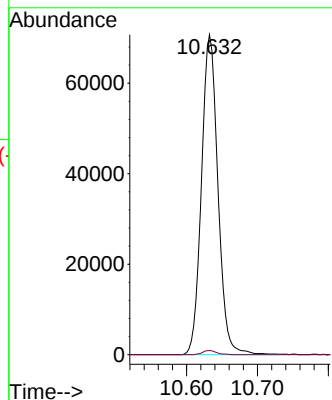
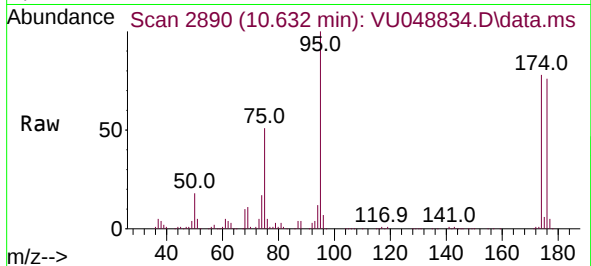




#76  
1,2,3-Trichloropropane  
Concen: 15.788 ug/l  
RT: 10.632 min Scan# 2890  
Delta R.T. -0.190 min  
Lab File: VU048834.D  
Acq: 03 Jun 2022 04:02

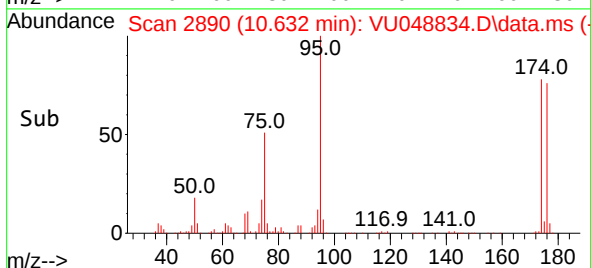
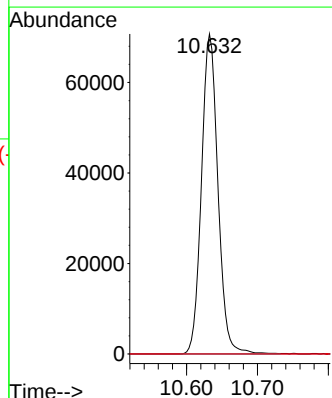
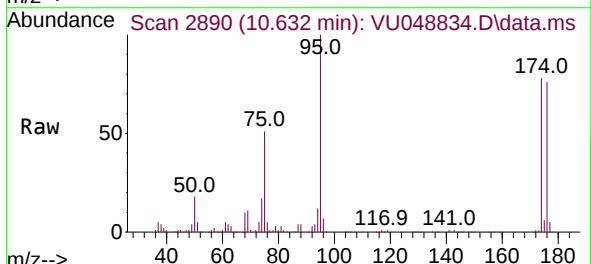
Instrument :  
MSVOA\_U  
ClientSampleId :  
MH-121.5N-20220527

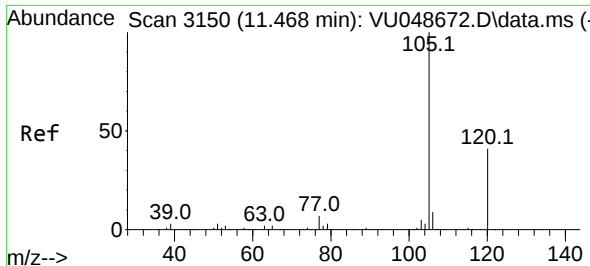
Tgt Ion: 75 Resp: 114307  
Ion Ratio Lower Upper  
75 100  
77 1.1 14.8 44.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 57.323 ug/l  
RT: 10.632 min Scan# 2890  
Delta R.T. 0.087 min  
Lab File: VU048834.D  
Acq: 03 Jun 2022 04:02

Tgt Ion: 75 Resp: 114307  
Ion Ratio Lower Upper  
75 100  
53 0.0 72.5 108.7#  
89 0.0 37.0 55.4#

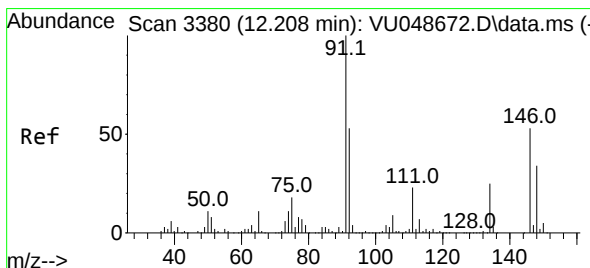
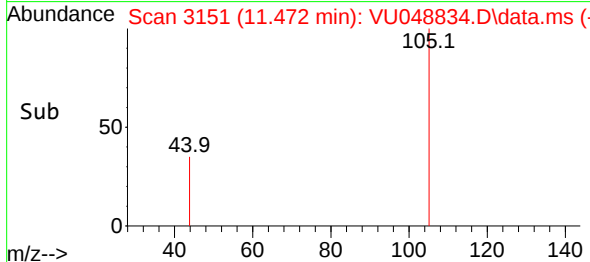
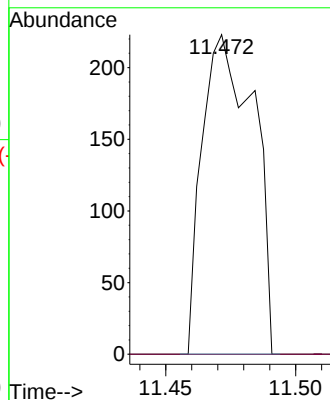
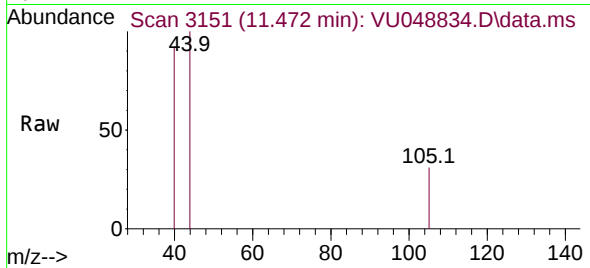




#84  
1,2,4-Trimethylbenzene  
Concen: 1.209 ug/l  
RT: 11.472 min Scan# 3150  
Delta R.T. 0.004 min  
Lab File: VU048834.D  
Acq: 03 Jun 2022 04:02

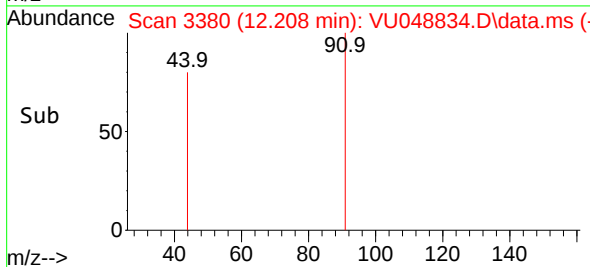
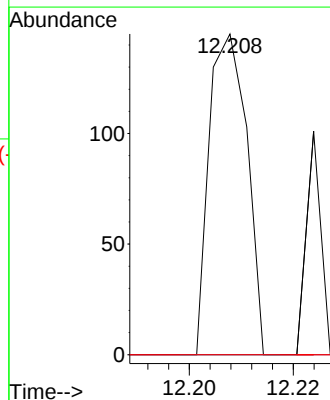
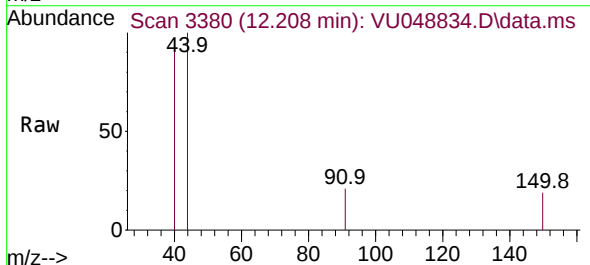
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MSVOA\_U  
ClientSampleId :  
MH-121.5N-20220527

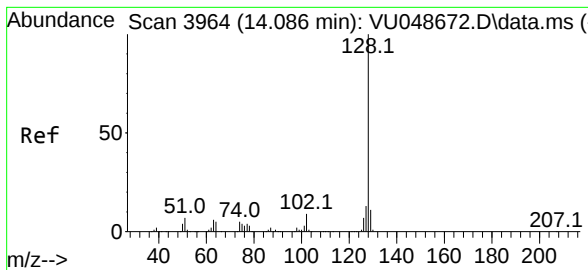
Tgt Ion:105 Resp: 306  
Ion Ratio Lower Upper  
105 100  
120 0.0 22.5 67.5#



#89  
n-Butylbenzene  
Concen: 2.191 ug/l  
RT: 12.208 min Scan# 3380  
Delta R.T. -0.000 min  
Lab File: VU048834.D  
Acq: 03 Jun 2022 04:02

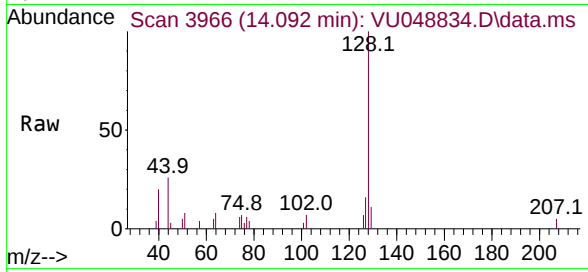
Tgt Ion: 91 Resp: 73  
Ion Ratio Lower Upper  
91 100  
92 0.0 25.9 77.8#  
134 0.0 12.5 37.5#





#95  
Naphthalene  
Concen: 2.904 ug/l  
RT: 14.092 min Scan# 3966  
Delta R.T. 0.006 min  
Lab File: VU048834.D  
Acq: 03 Jun 2022 04:02

Instrument :  
MSVOA\_U  
ClientSampleId :  
MH-121.5N-20220527



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 6912  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 12.1  | 10.2  | 15.4  |
| 129      | 8.8   | 8.7   | 13.1  |

