

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU052722\  
 Data File : VU048694.D  
 Acq On : 27 May 2022 15:28  
 Operator : SY/MD  
 Sample : N3056-05  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MW-16D

Quant Time: May 28 00:19:47 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

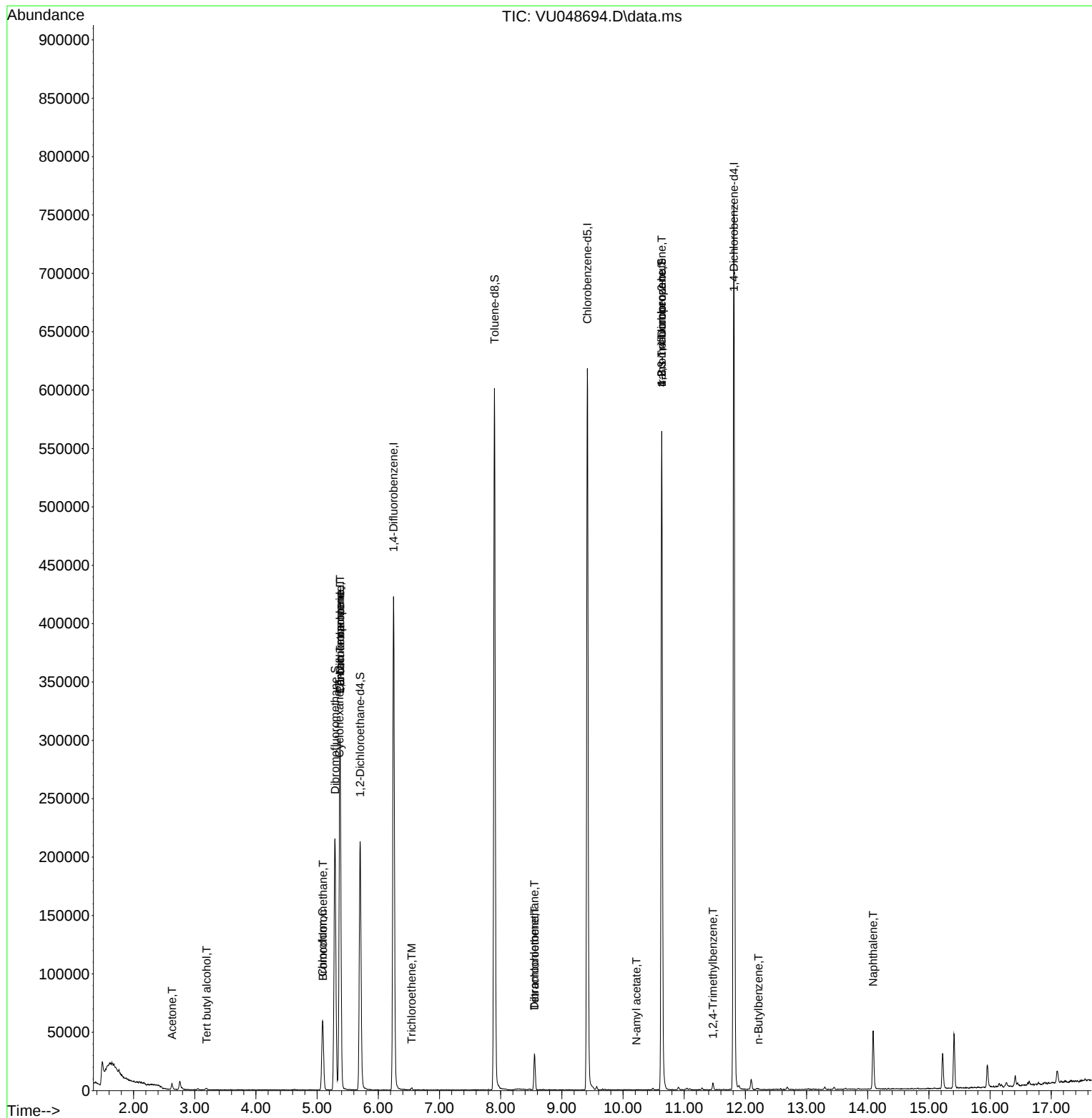
| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| -----                         |        |                |          |            |        |          |
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 5.375  | 168            | 208575   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.250  | 114            | 343140   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 9.417  | 117            | 344753   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.812 | 152            | 204349   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.703  | 65             | 160327   | 51.184     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 78 - 117 | Recovery | = 102.360% |        |          |
| 35) Dibromofluoromethane      | 5.292  | 113            | 142238   | 58.103     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 75 - 124 | Recovery | = 116.200% |        |          |
| 50) Toluene-d8                | 7.899  | 98             | 408233   | 46.521     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 92 - 112 | Recovery | = 93.040%  |        |          |
| 62) 4-Bromofluorobenzene      | 10.632 | 95             | 188753   | 56.875     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 83 - 123 | Recovery | = 113.740% |        |          |
| Target Compounds              |        |                |          |            |        |          |
|                               |        |                |          |            | Qvalue |          |
| 5) Bromomethane               | 1.826  | 94             | 49       | Below Cal  | #      | 3        |
| 6) Chloroethane               | 2.012  | 64             | 440      | Below Cal  | #      | 43       |
| 11) Tert butyl alcohol        | 3.195  | 59             | 772      | 0.972      | ug/l # | 28       |
| 16) Acetone                   | 2.630  | 43             | 5153     | 3.228      | ug/l   | 98       |
| 28) Bromochloromethane        | 5.096  | 49             | 3771     | 2.018      | ug/l # | 13       |
| 30) Chloroform                | 5.089  | 83             | 53365    | 11.197     | ug/l   | 96       |
| 31) Cyclohexane               | 5.366  | 56             | 2150     | 0.545      | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.375  | 75             | 16501    | 4.618      | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.375  | 117            | 21122    | 5.153      | ug/l # | 17       |
| 44) Trichloroethene           | 6.546  | 130            | 556      | 0.205      | ug/l   | 94       |
| 60) Dibromochloromethane      | 8.552  | 129            | 6569     | 2.105      | ug/l # | 11       |
| 64) Tetrachloroethene         | 8.555  | 164            | 6335     | 1.572      | ug/l   | 85       |
| 74) N-amyl acetate            | 10.221 | 43             | 21       | 2.470      | ug/l # | 41       |
| 76) 1,2,3-Trichloropropane    | 10.632 | 75             | 98463    | 14.944     | ug/l # | 48       |
| 81) trans-1,4-Dichloro-2-b... | 10.632 | 75             | 98463    | 54.260     | ug/l # | 13       |
| 84) 1,2,4-Trimethylbenzene    | 11.472 | 105            | 3871     | 1.493      | ug/l   | 89       |
| 89) n-Butylbenzene            | 12.214 | 91             | 493      | 2.225      | ug/l # | 38       |
| 95) Naphthalene               | 14.089 | 128            | 43478    | 5.099      | ug/l   | 99       |
| -----                         |        |                |          |            |        |          |

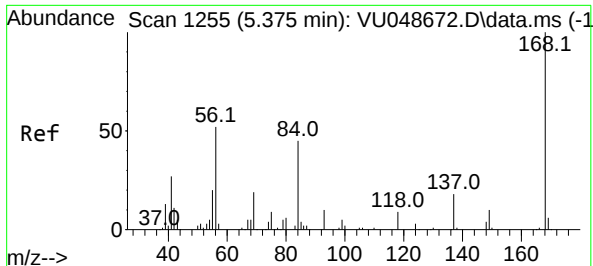
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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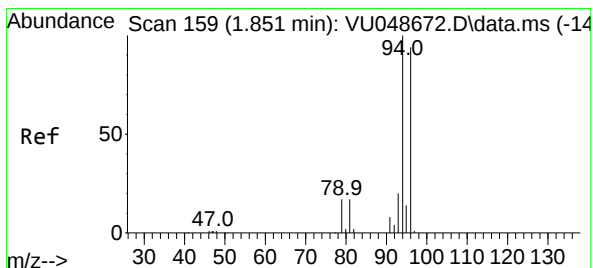
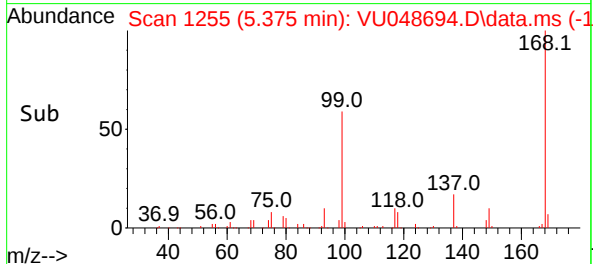
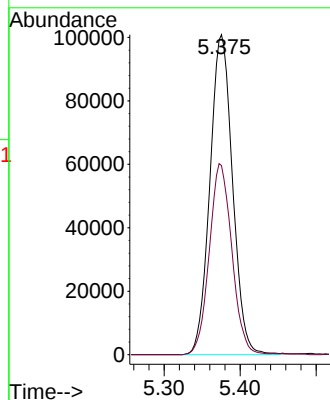
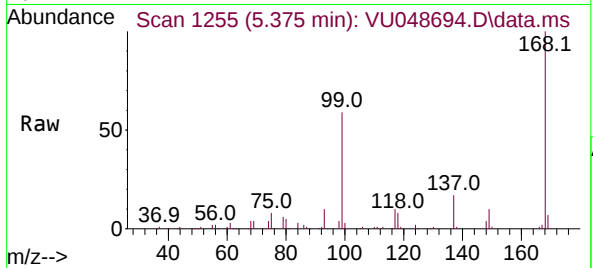




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.375 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU048694.D  
Acq: 27 May 2022 15:28

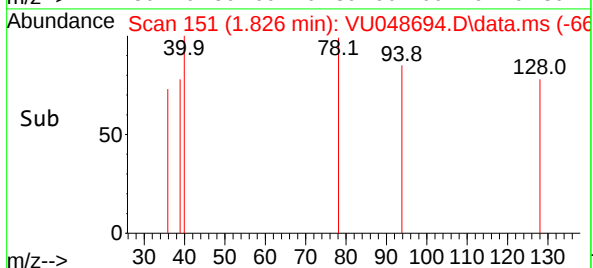
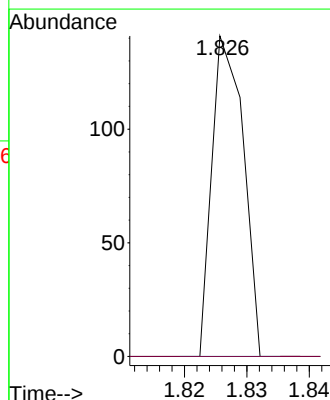
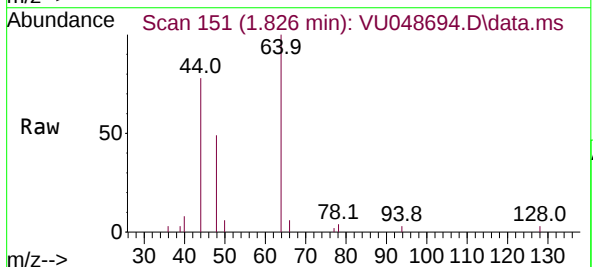
Instrument :  
MSVOA\_U  
ClientSampleId :  
MW-16D

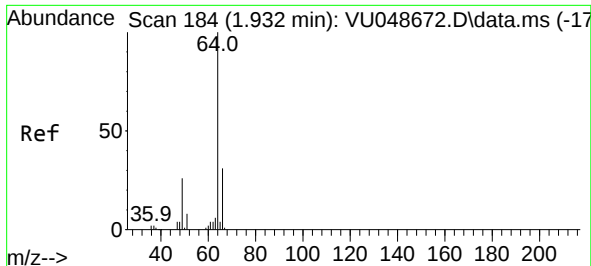
Tgt Ion:168 Resp: 208575  
Ion Ratio Lower Upper  
168 100  
99 59.1 49.3 73.9



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.826 min Scan# 151  
Delta R.T. -0.025 min  
Lab File: VU048694.D  
Acq: 27 May 2022 15:28

Tgt Ion: 94 Resp: 49  
Ion Ratio Lower Upper  
94 100  
96 0.0 75.1 112.7#

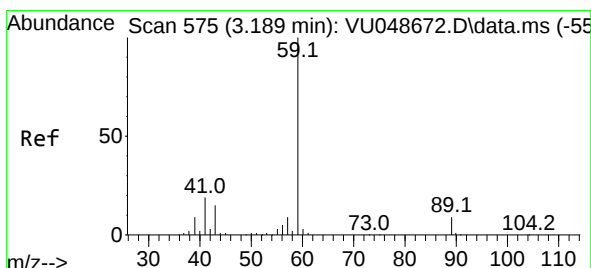
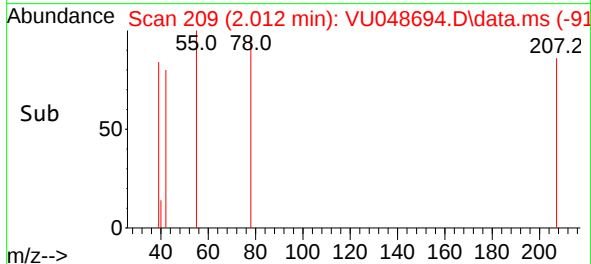
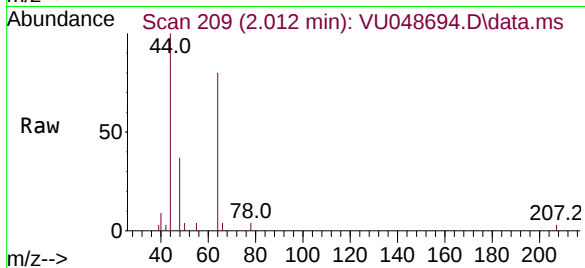




#6  
Chloroethane  
Concen: Below Cal  
RT: 2.012 min Scan# 209  
Delta R.T. 0.080 min  
Lab File: VU048694.D  
Acq: 27 May 2022 15:28

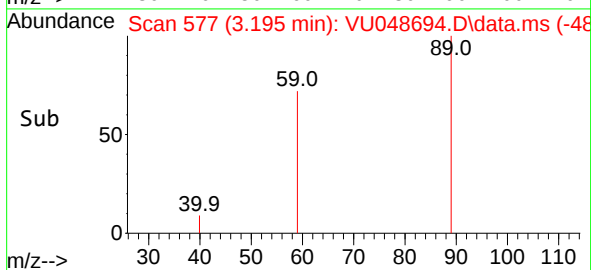
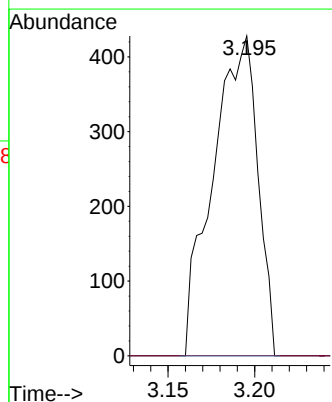
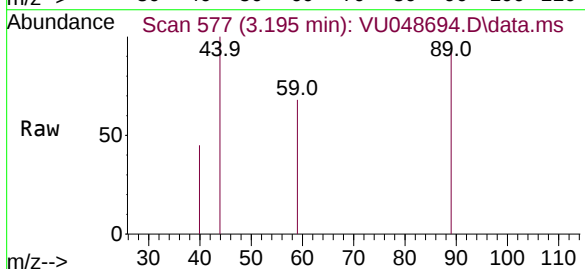
Instrument :  
MSVOA\_U  
ClientSampleId :  
MW-16D

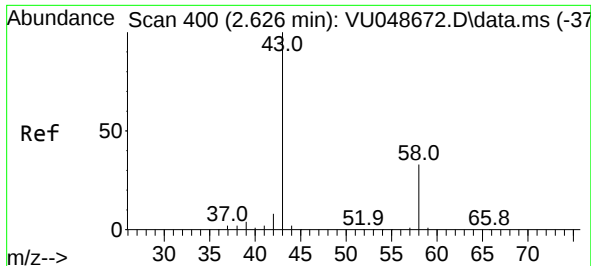
Tgt Ion: 64 Resp: 440  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.2 37.8#



#11  
Tert butyl alcohol  
Concen: 0.972 ug/l  
RT: 3.195 min Scan# 577  
Delta R.T. 0.007 min  
Lab File: VU048694.D  
Acq: 27 May 2022 15:28

Tgt Ion: 59 Resp: 772  
Ion Ratio Lower Upper  
59 100  
57 0.0 39.7 59.5#





#16

Acetone

Concen: 3.228 ug/l

RT: 2.630 min Scan# 40

Delta R.T. 0.003 min

Lab File: VU048694.D

Acq: 27 May 2022 15:28

Instrument :

MSVOA\_U

ClientSampleId :

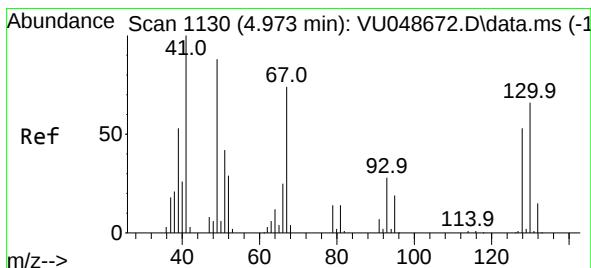
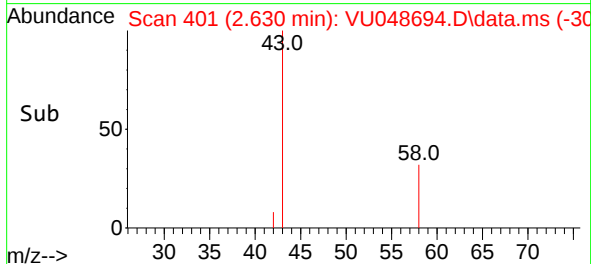
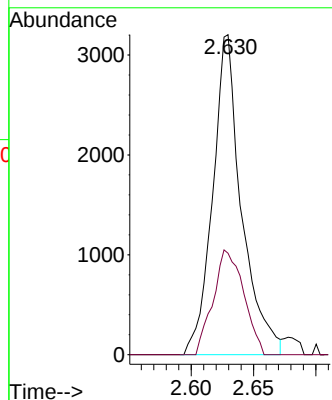
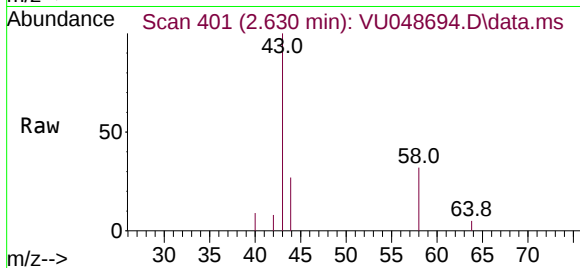
MW-16D

Tgt Ion: 43 Resp: 5153

Ion Ratio Lower Upper

43 100

58 31.7 26.3 39.5



#28

Bromochloromethane

Concen: 2.018 ug/l

RT: 5.096 min Scan# 1168

Delta R.T. 0.122 min

Lab File: VU048694.D

Acq: 27 May 2022 15:28

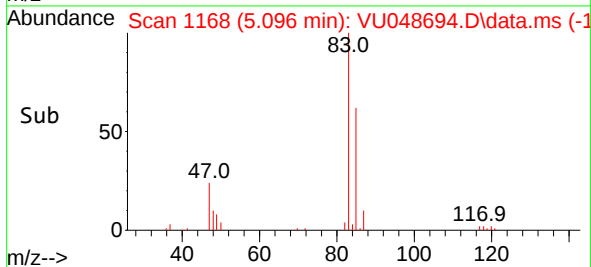
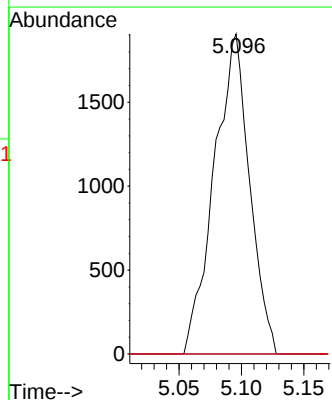
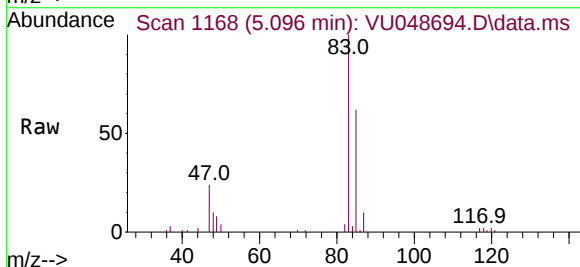
Tgt Ion: 49 Resp: 3771

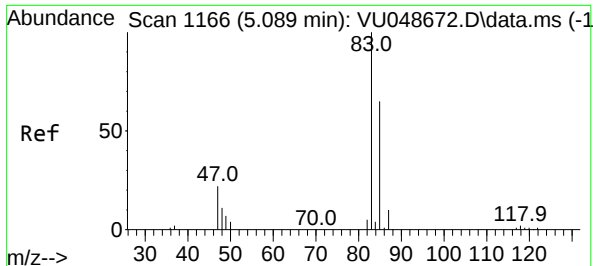
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.0

130 0.0 62.1 93.1#





#30

Chloroform

Concen: 11.197 ug/l

RT: 5.089 min Scan# 1166

Delta R.T. 0.000 min

Lab File: VU048694.D

Acq: 27 May 2022 15:28

Instrument :

MSVOA\_U

ClientSampleId :

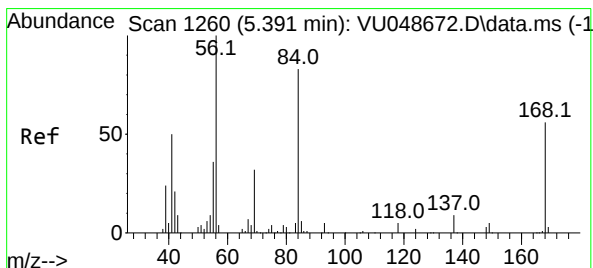
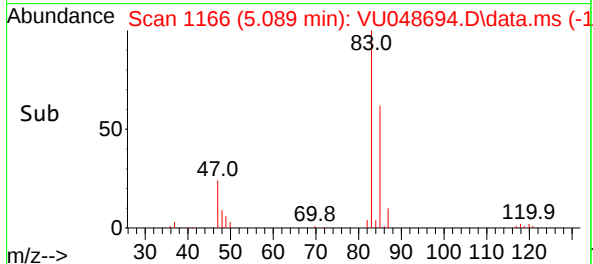
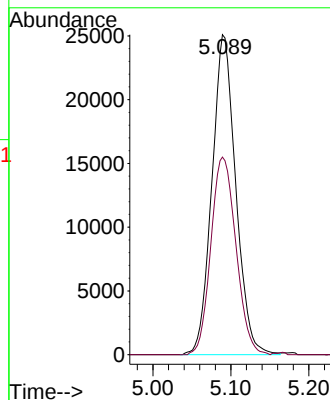
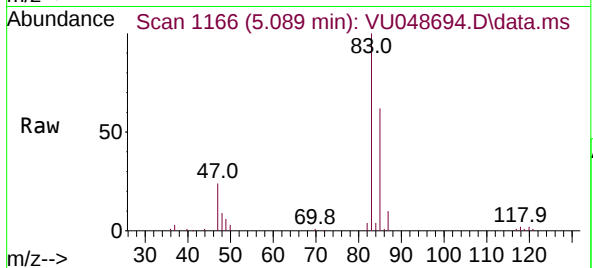
MW-16D

Tgt Ion: 83 Resp: 53365

Ion Ratio Lower Upper

83 100

85 61.8 52.2 78.2



#31

Cyclohexane

Concen: 0.545 ug/l

RT: 5.366 min Scan# 1252

Delta R.T. -0.026 min

Lab File: VU048694.D

Acq: 27 May 2022 15:28

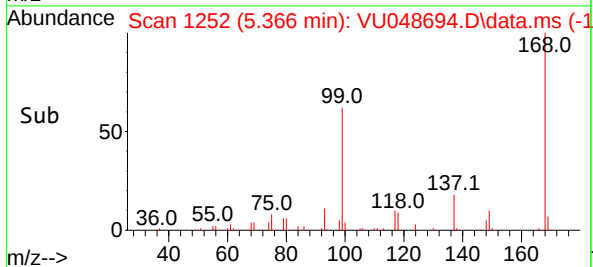
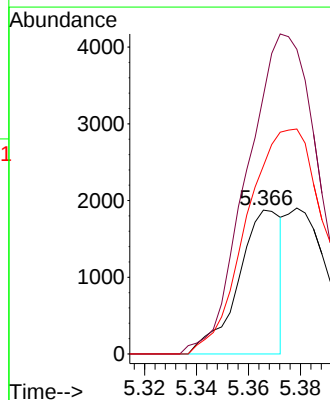
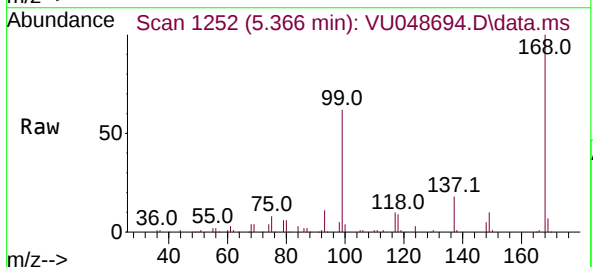
Tgt Ion: 56 Resp: 2150

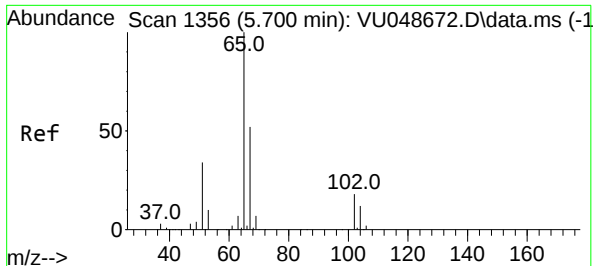
Ion Ratio Lower Upper

56 100

69 179.5 25.6 38.4#

84 130.8 66.2 99.4#





#33

1,2-Dichloroethane-d4

Concen: 51.184 ug/l

RT: 5.703 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU048694.D

Acq: 27 May 2022 15:28

Instrument :

MSVOA\_U

ClientSampleId :

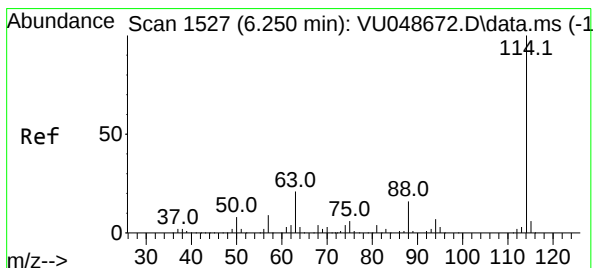
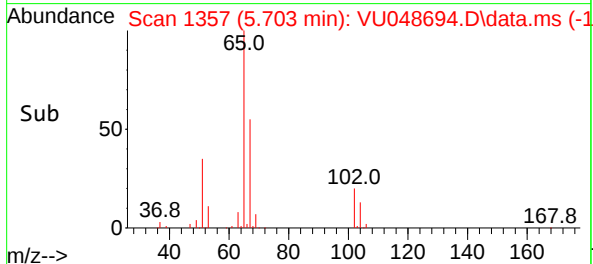
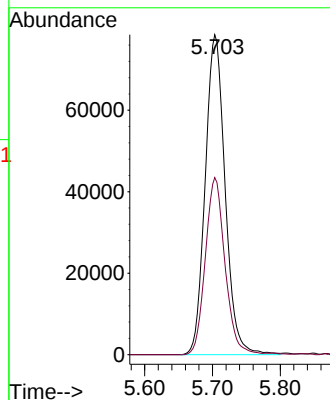
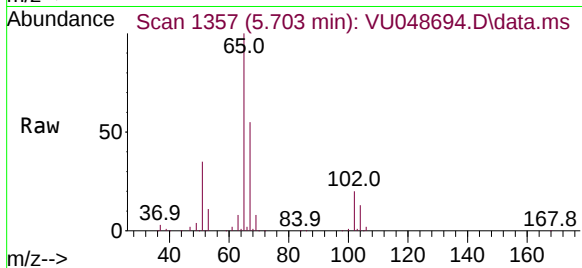
MW-16D

Tgt Ion: 65 Resp: 160327

Ion Ratio Lower Upper

65 100

67 54.6 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.250 min Scan# 1527

Delta R.T. -0.000 min

Lab File: VU048694.D

Acq: 27 May 2022 15:28

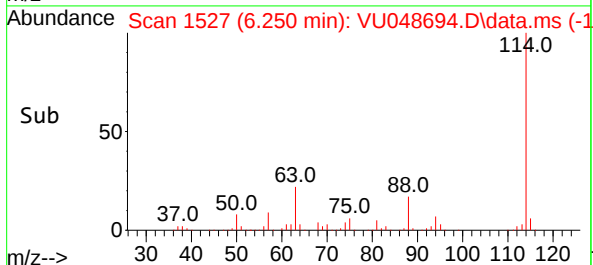
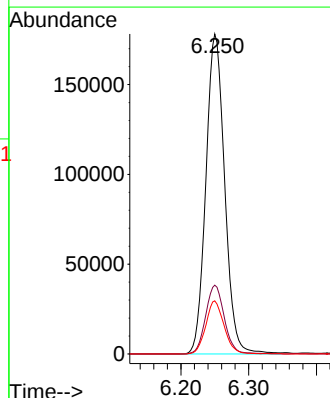
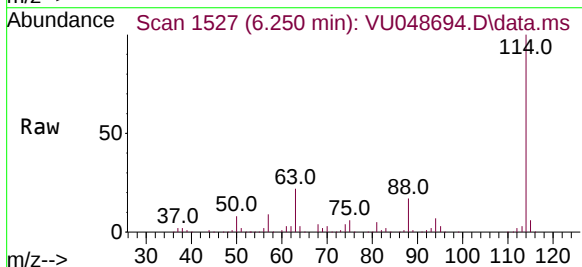
Tgt Ion:114 Resp: 343140

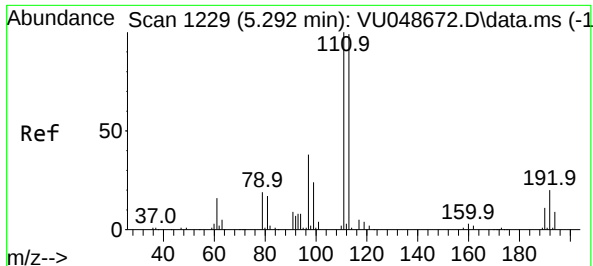
Ion Ratio Lower Upper

114 100

63 21.5 0.0 42.6

88 16.6 0.0 32.2





#35

Dibromofluoromethane

Concen: 58.103 ug/l

RT: 5.292 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU048694.D

Acq: 27 May 2022 15:28

Instrument :

MSVOA\_U

ClientSampleId :

MW-16D

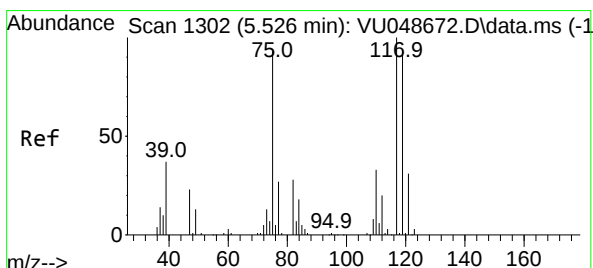
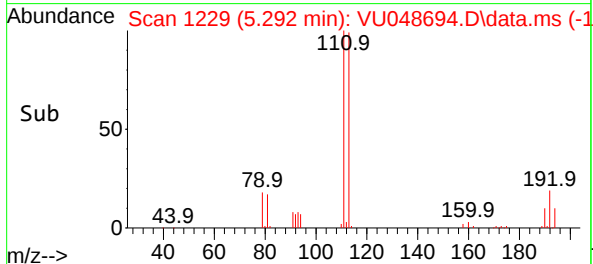
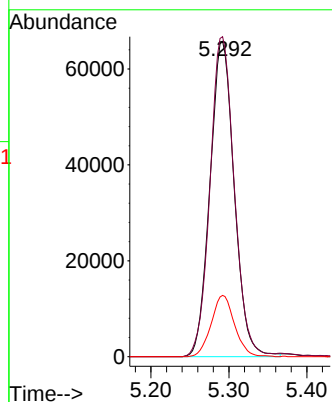
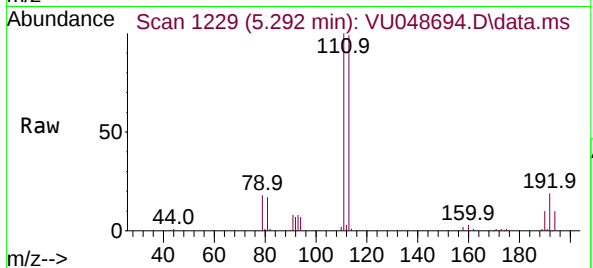
Tgt Ion:113 Resp: 142238

Ion Ratio Lower Upper

113 100

111 101.2 80.7 121.1

192 18.8 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.618 ug/l

RT: 5.375 min Scan# 1255

Delta R.T. -0.151 min

Lab File: VU048694.D

Acq: 27 May 2022 15:28

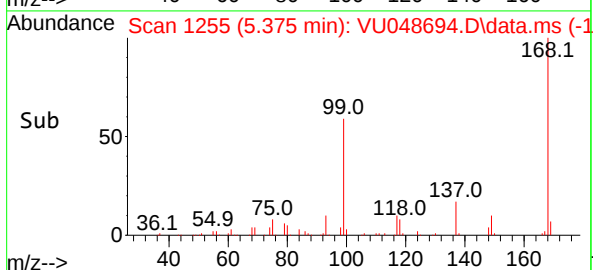
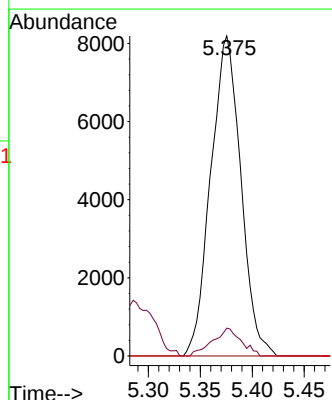
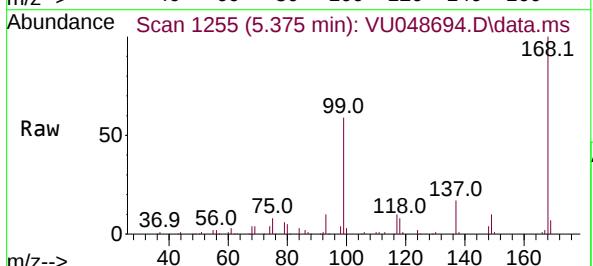
Tgt Ion: 75 Resp: 16501

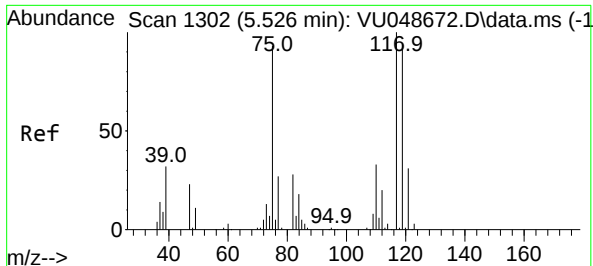
Ion Ratio Lower Upper

75 100

110 8.2 17.4 52.3#

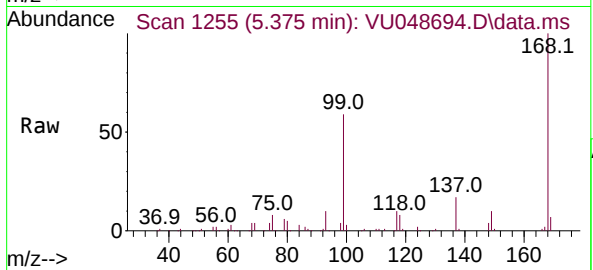
77 0.0 24.8 37.2#



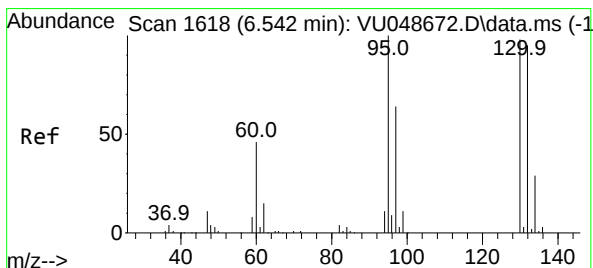
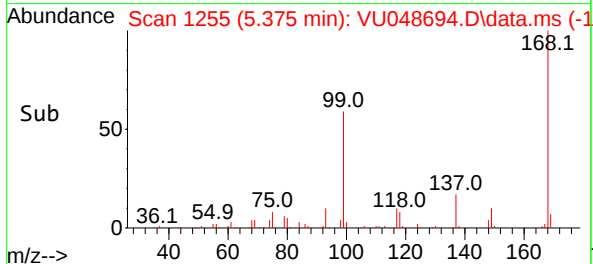
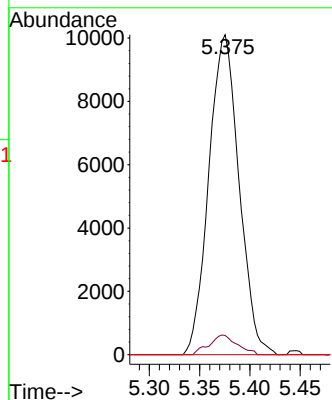


#38  
Carbon Tetrachloride  
Concen: 5.153 ug/l  
RT: 5.375 min Scan# 117  
Delta R.T. -0.151 min  
Lab File: VU048694.D  
Acq: 27 May 2022 15:28

Instrument :  
MSVOA\_U  
ClientSampleId :  
MW-16D

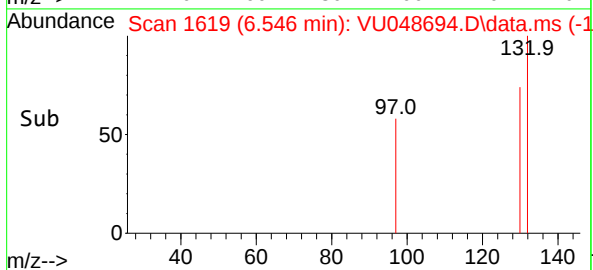
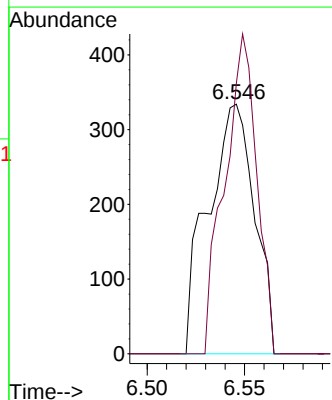
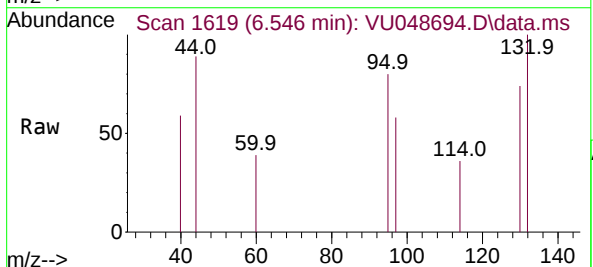


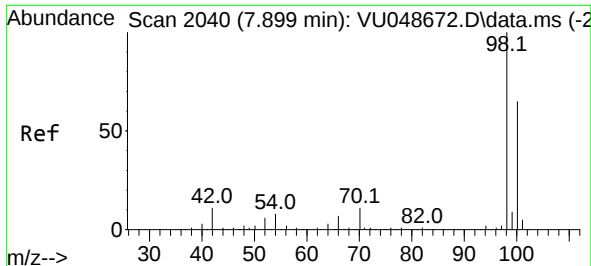
Tgt Ion:117 Resp: 21122  
Ion Ratio Lower Upper  
117 100  
119 6.0 75.4 113.2#  
121 0.0 24.6 36.8#



#44  
Trichloroethene  
Concen: 0.205 ug/l  
RT: 6.546 min Scan# 1619  
Delta R.T. 0.003 min  
Lab File: VU048694.D  
Acq: 27 May 2022 15:28

Tgt Ion:130 Resp: 556  
Ion Ratio Lower Upper  
130 100  
95 108.4 0.0 204.8

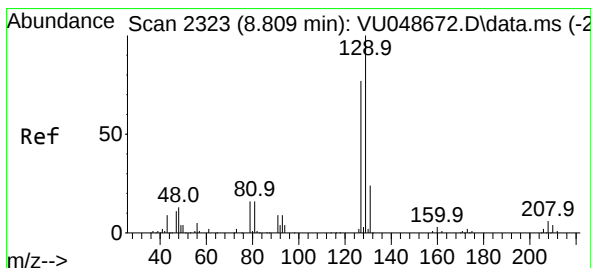
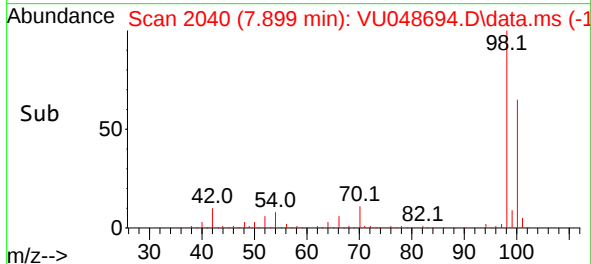
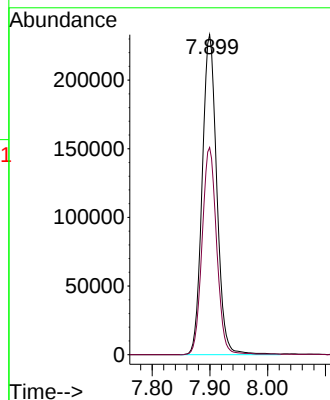
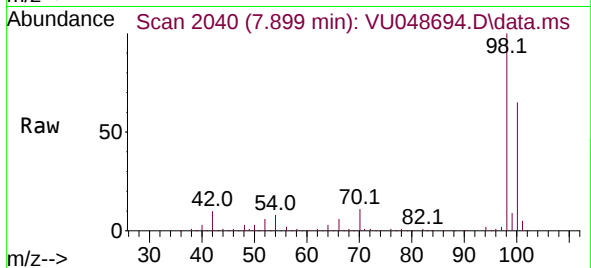




#50  
Toluene-d8  
Concen: 46.521 ug/l  
RT: 7.899 min Scan# 2040  
Delta R.T. 0.000 min  
Lab File: VU048694.D  
Acq: 27 May 2022 15:28

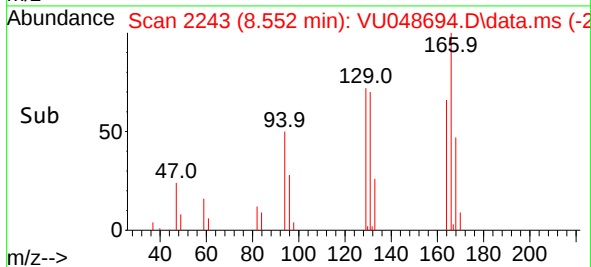
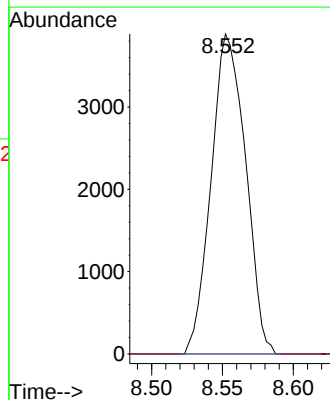
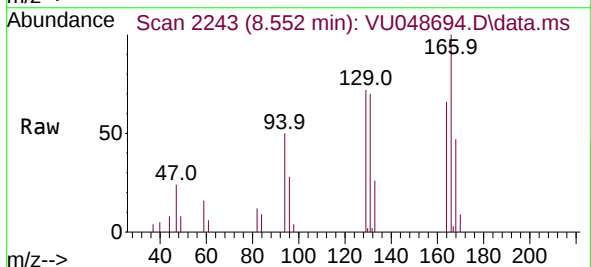
Instrument :  
MSVOA\_U  
ClientSampleId :  
MW-16D

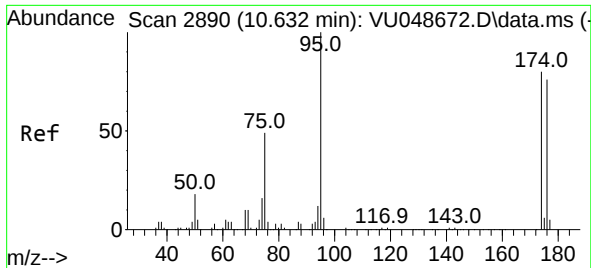
Tgt Ion: 98 Resp: 408233  
Ion Ratio Lower Upper  
98 100  
100 64.5 52.2 78.4



#60  
Dibromochloromethane  
Concen: 2.105 ug/l  
RT: 8.552 min Scan# 2243  
Delta R.T. -0.257 min  
Lab File: VU048694.D  
Acq: 27 May 2022 15:28

Tgt Ion: 129 Resp: 6569  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.5 115.3#

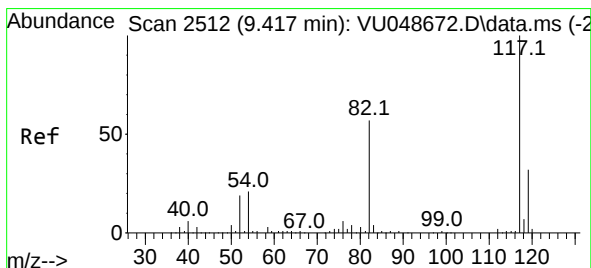
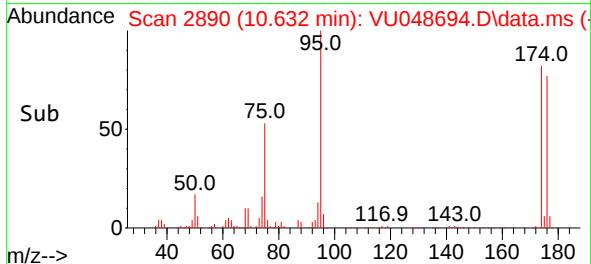
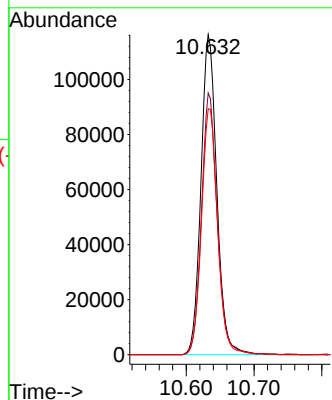
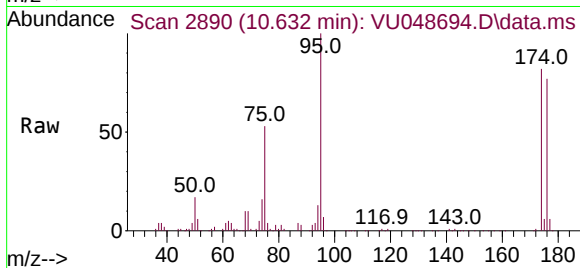




#62  
4-Bromofluorobenzene  
Concen: 56.875 ug/l  
RT: 10.632 min Scan# 2890  
Delta R.T. 0.000 min  
Lab File: VU048694.D  
Acq: 27 May 2022 15:28

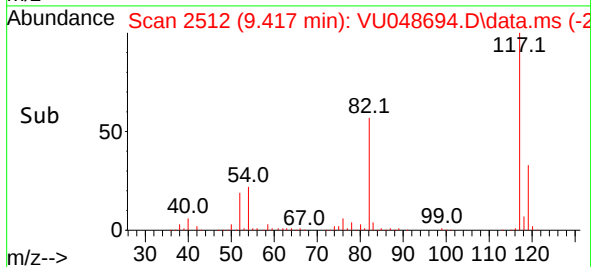
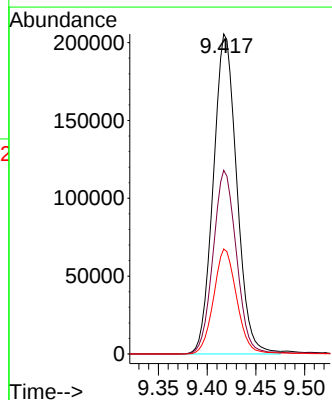
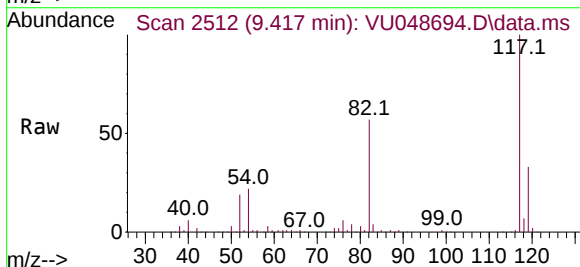
Instrument :  
MSVOA\_U  
ClientSampleId :  
MW-16D

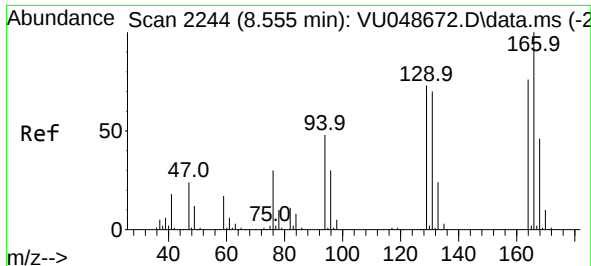
Tgt Ion: 95 Resp: 188753  
Ion Ratio Lower Upper  
95 100  
174 81.3 0.0 159.4  
176 77.9 0.0 152.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.417 min Scan# 2512  
Delta R.T. 0.000 min  
Lab File: VU048694.D  
Acq: 27 May 2022 15:28

Tgt Ion: 117 Resp: 344753  
Ion Ratio Lower Upper  
117 100  
82 57.4 45.3 67.9  
119 32.8 25.4 38.2

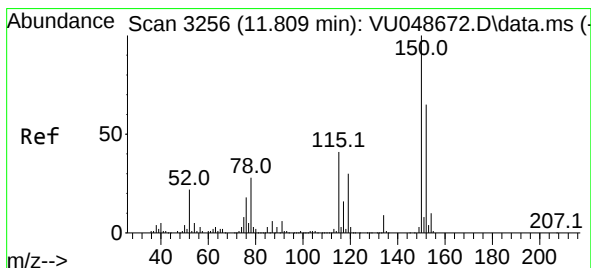
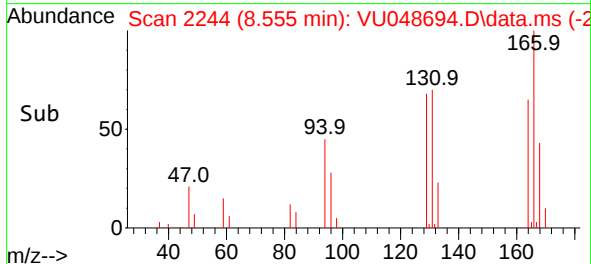
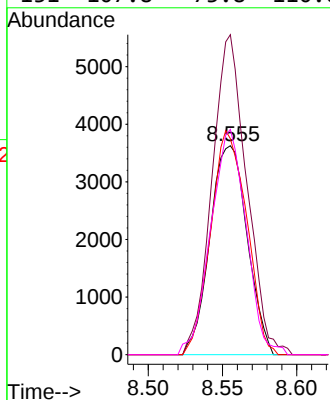
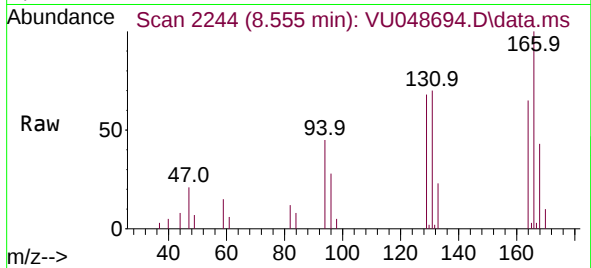




#64  
Tetrachloroethene  
Concen: 1.572 ug/l  
RT: 8.555 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU048694.D  
Acq: 27 May 2022 15:28

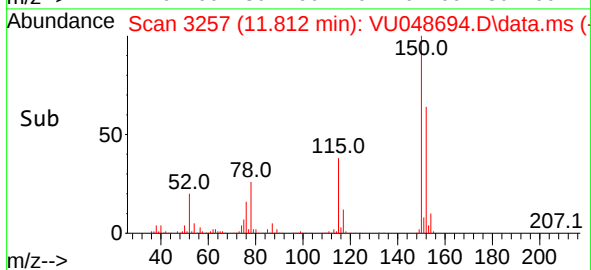
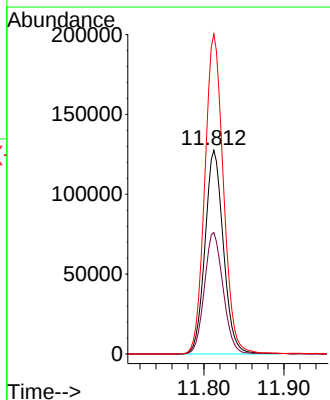
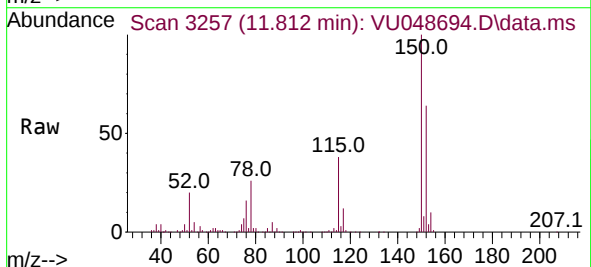
Instrument :  
MSVOA\_U  
ClientSampleId :  
MW-16D

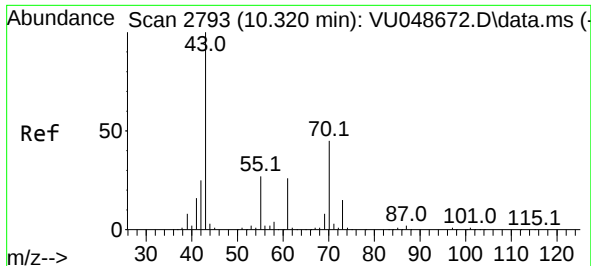
Tgt Ion:164 Resp: 6335  
Ion Ratio Lower Upper  
164 100  
166 153.2 105.0 157.4  
129 103.4 76.5 114.7  
131 107.8 73.8 110.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.812 min Scan# 3257  
Delta R.T. 0.003 min  
Lab File: VU048694.D  
Acq: 27 May 2022 15:28

Tgt Ion:152 Resp: 204349  
Ion Ratio Lower Upper  
152 100  
115 60.7 41.8 125.4  
150 158.8 0.0 341.0

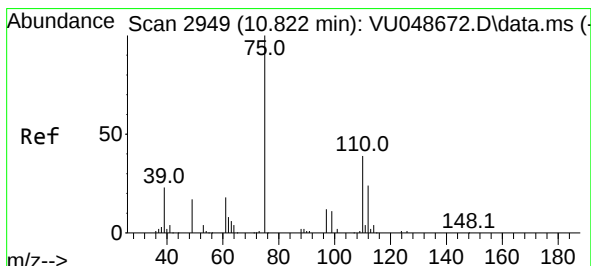
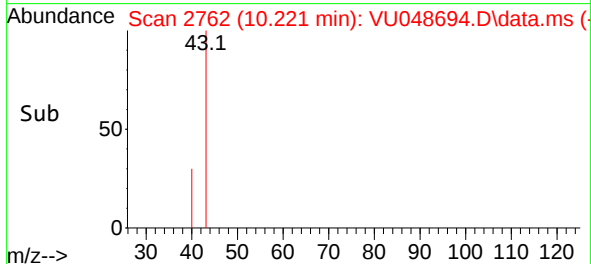
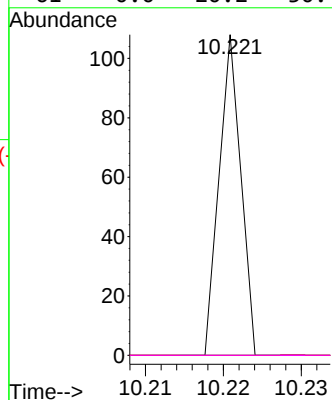
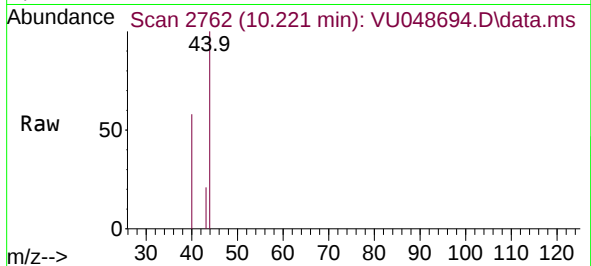




#74  
N-amy1 acetate  
Concen: 2.470 ug/l  
RT: 10.221 min Scan# 21  
Delta R.T. -0.099 min  
Lab File: VU048694.D  
Acq: 27 May 2022 15:28

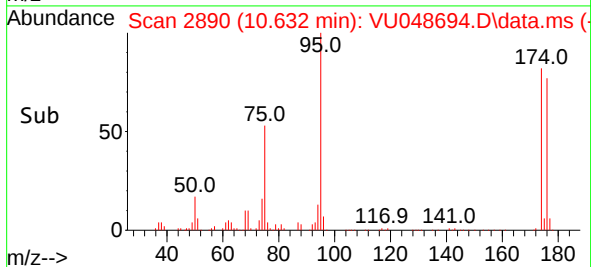
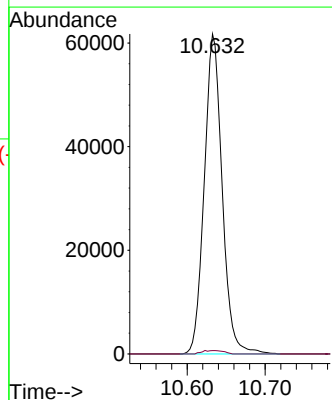
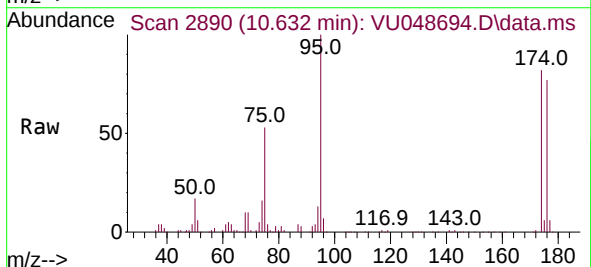
Instrument :  
MSVOA\_U  
ClientSampleId :  
MW-16D

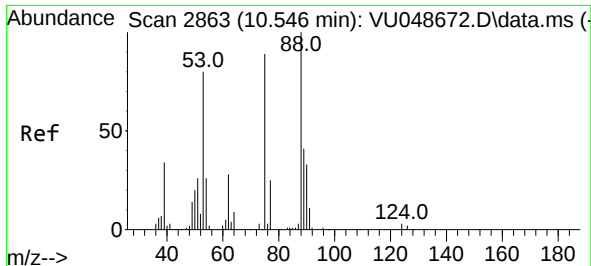
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 21    |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 70 0.0      | 35.8 53.6#  |
| 55 0.0      | 21.1 31.7#  |
| 61 0.0      | 20.2 30.4#  |



#76  
1,2,3-Trichloropropane  
Concen: 14.944 ug/l  
RT: 10.632 min Scan# 2890  
Delta R.T. -0.190 min  
Lab File: VU048694.D  
Acq: 27 May 2022 15:28

|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 98463 |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 77 1.3      | 14.8 44.3#  |

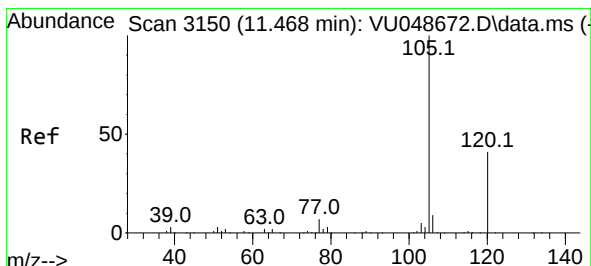
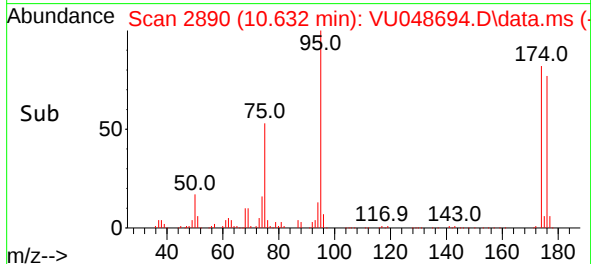
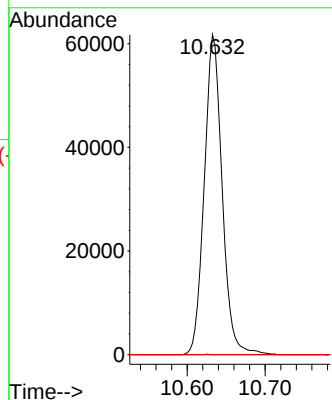
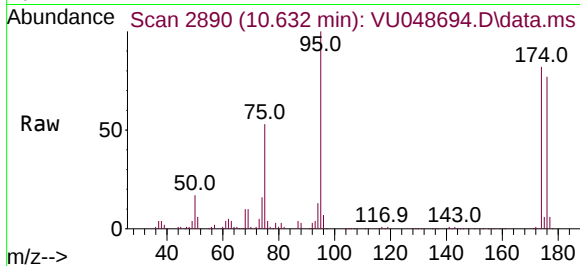




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 54.260 ug/l  
 RT: 10.632 min Scan# 2863  
 Delta R.T. 0.087 min  
 Lab File: VU048694.D  
 Acq: 27 May 2022 15:28

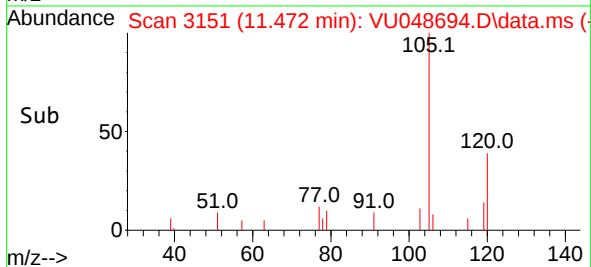
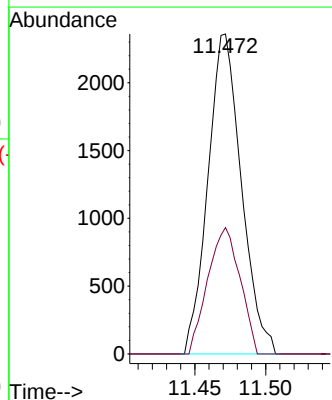
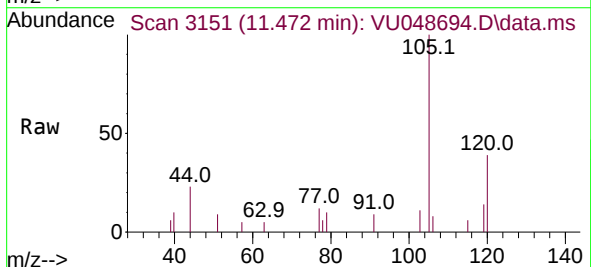
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MW-16D

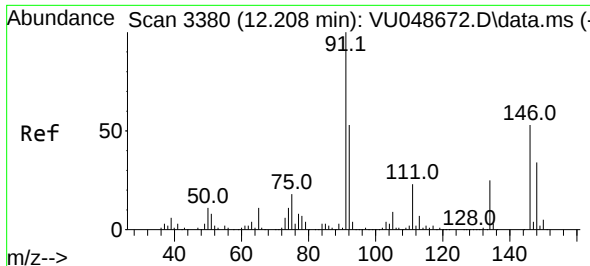
Tgt Ion: 75 Resp: 98463  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 72.5 108.7#  
 89 0.0 37.0 55.4#



#84  
 1,2,4-Trimethylbenzene  
 Concen: 1.493 ug/l  
 RT: 11.472 min Scan# 3151  
 Delta R.T. 0.004 min  
 Lab File: VU048694.D  
 Acq: 27 May 2022 15:28

Tgt Ion: 105 Resp: 3871  
 Ion Ratio Lower Upper  
 105 100  
 120 38.0 22.5 67.5

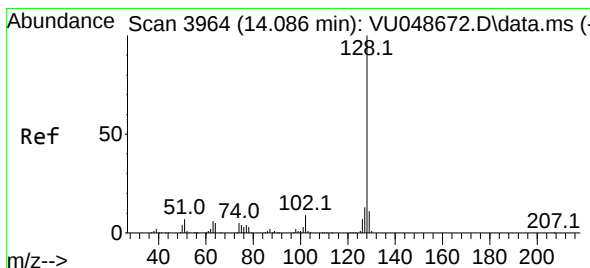
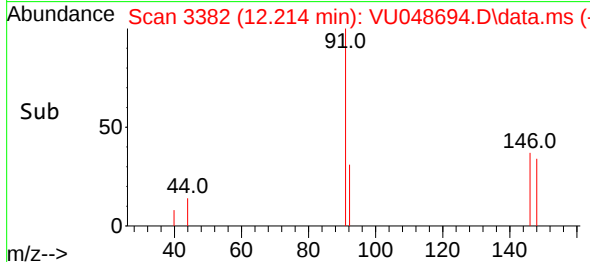
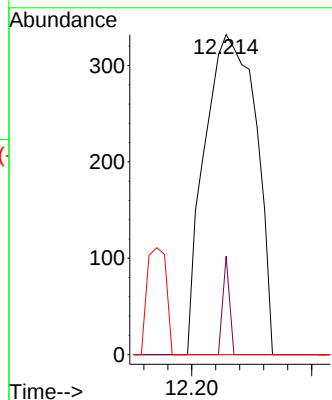
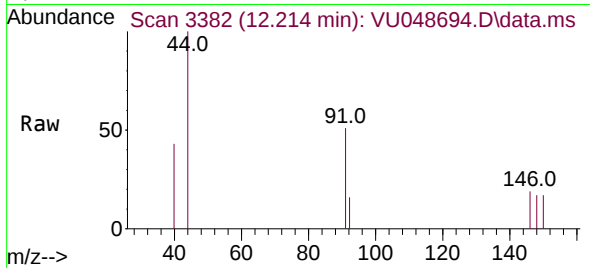




#89  
n-Butylbenzene  
Concen: 2.225 ug/l  
RT: 12.214 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VU048694.D  
Acq: 27 May 2022 15:28

Instrument :  
MSVOA\_U  
ClientSampleId :  
MW-16D

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 91 | Resp: | 493         |
| Ion         | Ratio | Lower Upper |
| 91          | 100   |             |
| 92          | 4.1   | 25.9 77.8#  |
| 134         | 0.0   | 12.5 37.5#  |



#95  
Naphthalene  
Concen: 5.099 ug/l  
RT: 14.089 min Scan# 3965  
Delta R.T. 0.003 min  
Lab File: VU048694.D  
Acq: 27 May 2022 15:28

|              |       |             |
|--------------|-------|-------------|
| Tgt Ion: 128 | Resp: | 43478       |
| Ion          | Ratio | Lower Upper |
| 128          | 100   |             |
| 127          | 13.3  | 10.2 15.4   |
| 129          | 11.1  | 8.7 13.1    |

