

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU052722\  
 Data File : VU048688.D  
 Acq On : 27 May 2022 13:07  
 Operator : SY/MD  
 Sample : N3064-04  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MW-2

Quant Time: May 28 00:17:40 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

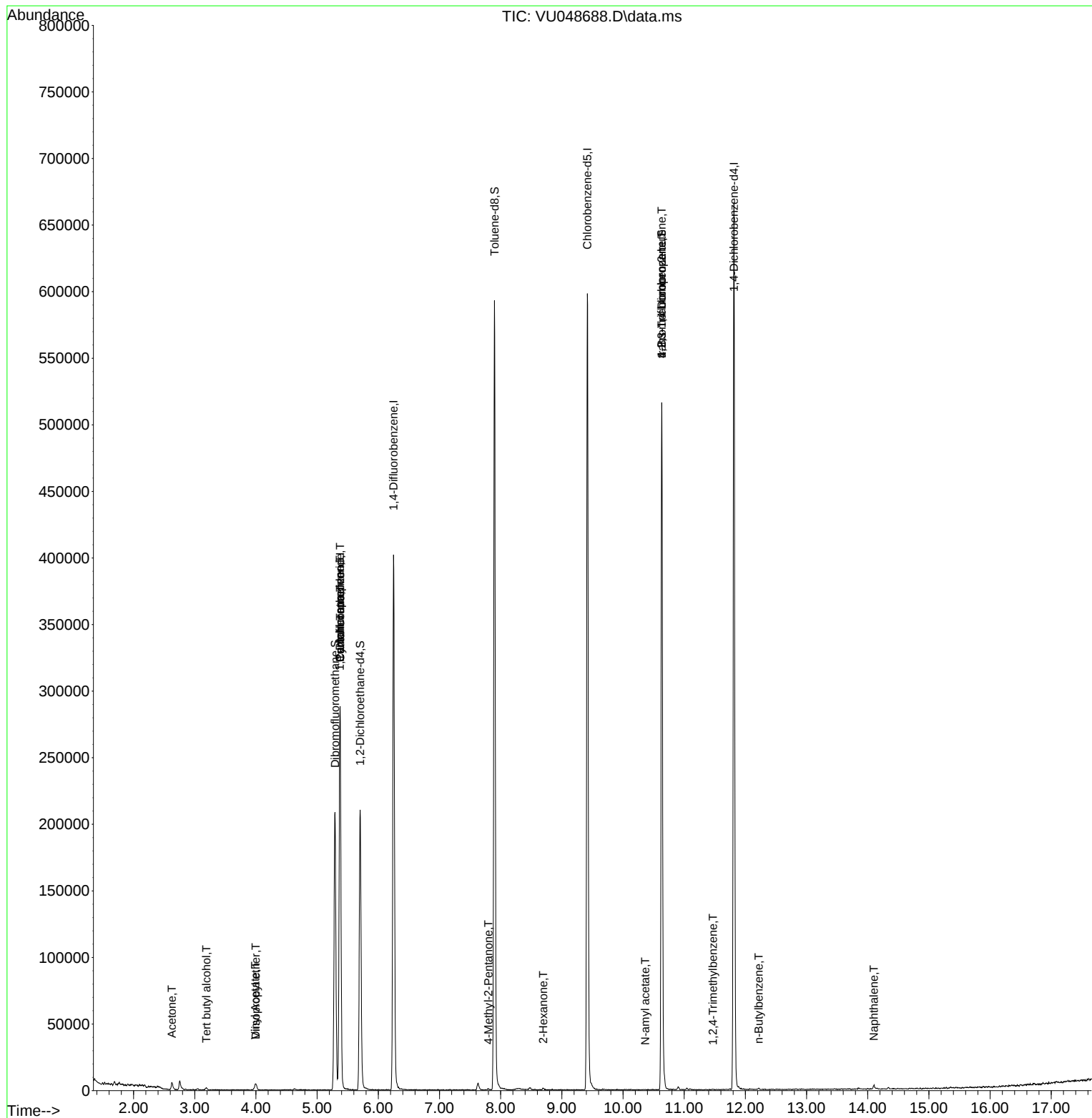
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.375  | 168   | 193329   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.250  | 114   | 325490   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 9.417  | 117   | 338367   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.812 | 152   | 180648   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.703  | 65    | 160982   | 55.445    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 110.900% |
| 35) Dibromofluoromethane      | 5.292  | 113   | 136471   | 58.770    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 117.540% |
| 50) Toluene-d8                | 7.899  | 98    | 397529   | 47.757    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 95.520%  |
| 62) 4-Bromofluorobenzene      | 10.632 | 95    | 178524   | 56.709    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 113.420% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 5) Bromomethane               | 1.764  | 94    | 103      | Below Cal | #      | 3        |
| 6) Chloroethane               | 1.928  | 64    | 103      | Below Cal | #      | 43       |
| 11) Tert butyl alcohol        | 3.189  | 59    | 1103     | 1.498     | ug/l # | 28       |
| 13) Acrolein                  | 2.501  | 56    | 40       | Below Cal | #      | 14       |
| 16) Acetone                   | 2.626  | 43    | 6379     | 4.311     | ug/l   | 92       |
| 22) Diisopropyl ether         | 3.999  | 45    | 5014     | 0.713     | ug/l # | 68       |
| 23) Vinyl Acetate             | 3.989  | 43    | 2675     | 0.439     | ug/l # | 72       |
| 31) Cyclohexane               | 5.375  | 56    | 4123     | 1.127     | ug/l # | 25       |
| 36) 1,1-Dichloropropene       | 5.372  | 75    | 15845    | 4.675     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.375  | 117   | 19755    | 5.081     | ug/l # | 18       |
| 51) 4-Methyl-2-Pentanone      | 7.800  | 43    | 933      | 0.231     | ug/l # | 34       |
| 59) 2-Hexanone                | 8.697  | 43    | 953      | 0.287     | ug/l   | 63       |
| 74) N-amyl acetate            | 10.362 | 43    | 50       | 2.475     | ug/l # | 41       |
| 76) 1,2,3-Trichloropropane    | 10.632 | 75    | 92426    | 15.868    | ug/l # | 46       |
| 81) trans-1,4-Dichloro-2-b... | 10.632 | 75    | 92426    | 57.616    | ug/l # | 13       |
| 84) 1,2,4-Trimethylbenzene    | 11.471 | 105   | 265      | 1.211     | ug/l # | 31       |
| 89) n-Butylbenzene            | 12.221 | 91    | 605      | 2.241     | ug/l # | 90       |
| 95) Naphthalene               | 14.102 | 128   | 3392     | 2.759     | ug/l # | 85       |
| -----                         |        |       |          |           |        |          |

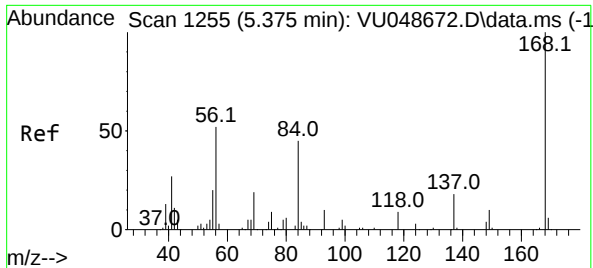
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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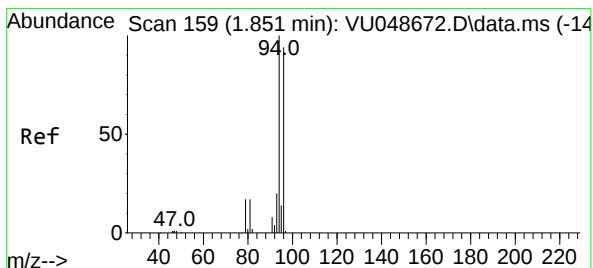
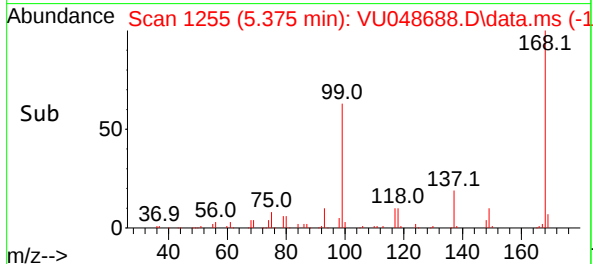
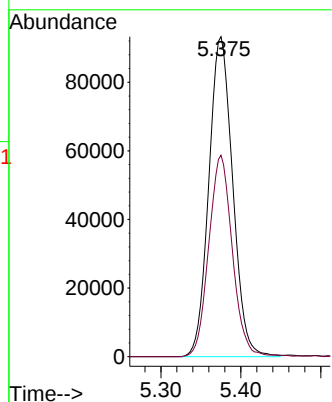
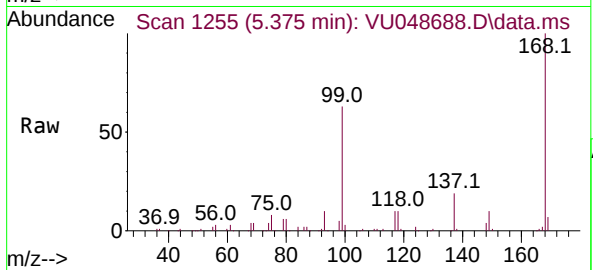




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.375 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU048688.D  
Acq: 27 May 2022 13:07

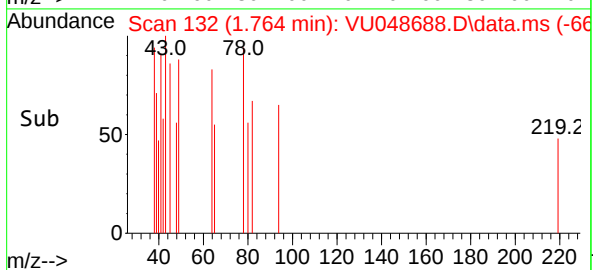
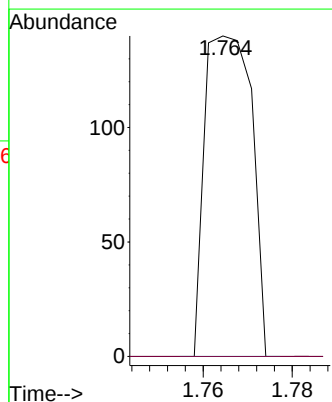
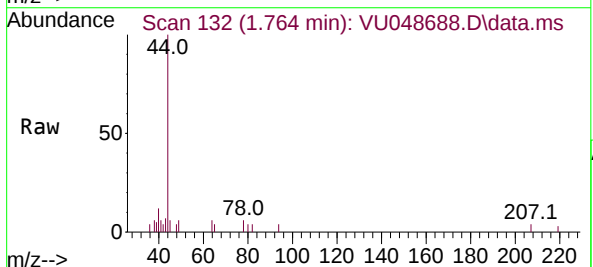
Instrument :  
MSVOA\_U  
ClientSampleId :  
MW-2

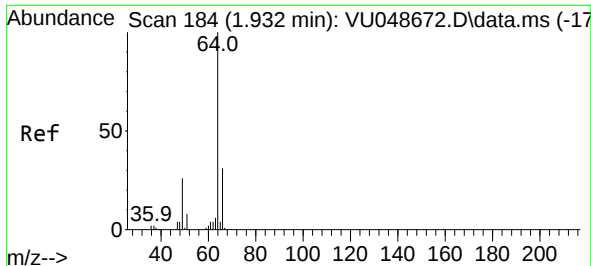
Tgt Ion:168 Resp: 193329  
Ion Ratio Lower Upper  
168 100  
99 63.0 49.3 73.9



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.764 min Scan# 132  
Delta R.T. -0.087 min  
Lab File: VU048688.D  
Acq: 27 May 2022 13:07

Tgt Ion: 94 Resp: 103  
Ion Ratio Lower Upper  
94 100  
96 0.0 75.1 112.7#

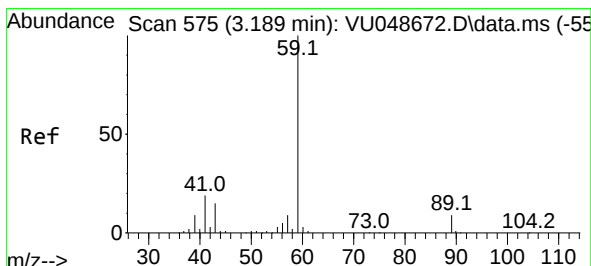
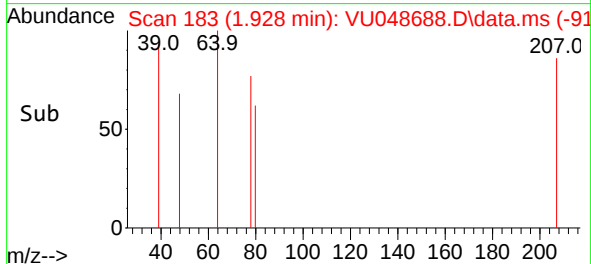
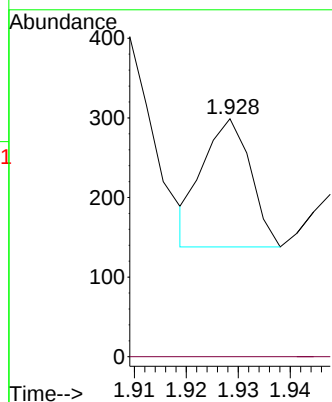
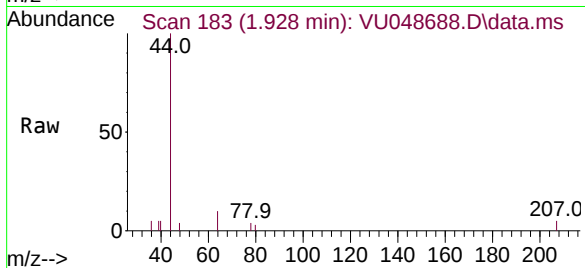




#6  
Chloroethane  
Concen: Below Cal  
RT: 1.928 min Scan# 11  
Delta R.T. -0.004 min  
Lab File: VU048688.D  
Acq: 27 May 2022 13:07

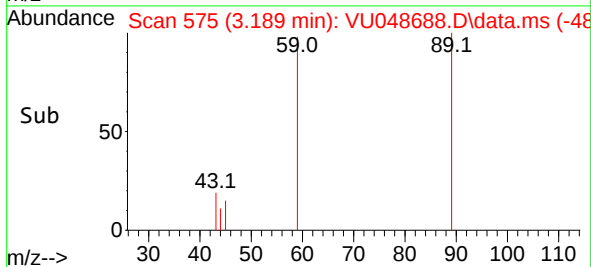
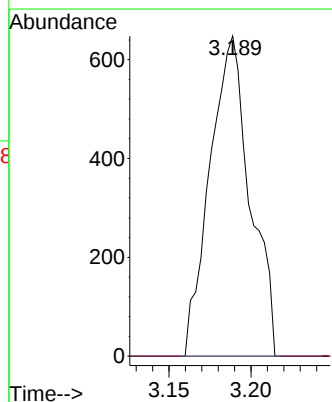
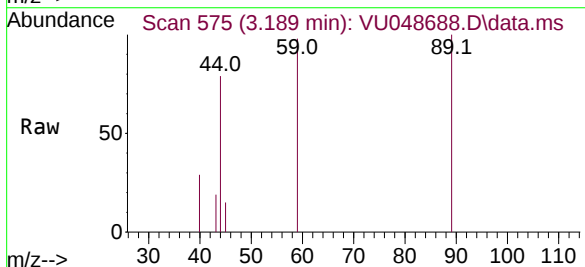
Instrument :  
MSVOA\_U  
ClientSampleId :  
MW-2

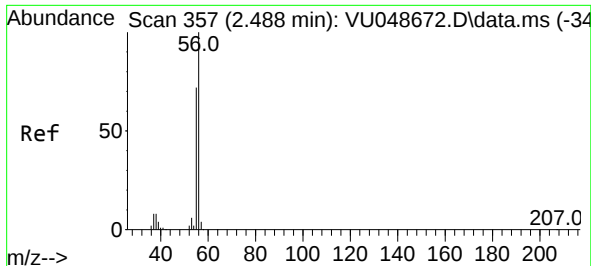
Tgt Ion: 64 Resp: 103  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.2 37.8#



#11  
Tert butyl alcohol  
Concen: 1.498 ug/l  
RT: 3.189 min Scan# 575  
Delta R.T. -0.000 min  
Lab File: VU048688.D  
Acq: 27 May 2022 13:07

Tgt Ion: 59 Resp: 1103  
Ion Ratio Lower Upper  
59 100  
57 0.0 39.7 59.5#





#13

Acrolein

Concen: Below Cal

RT: 2.501 min Scan# 3

Delta R.T. 0.013 min

Lab File: VU048688.D

Acq: 27 May 2022 13:07

Instrument :

MSVOA\_U

ClientSampleId :

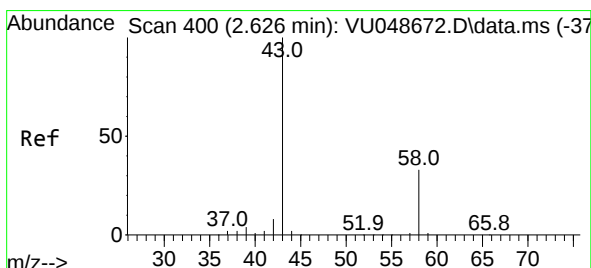
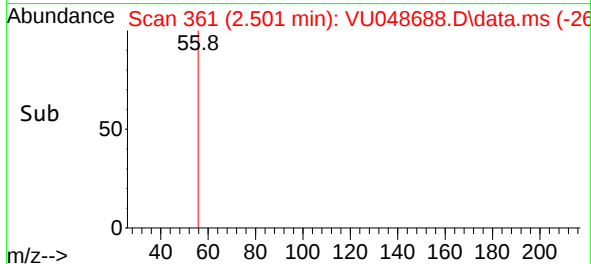
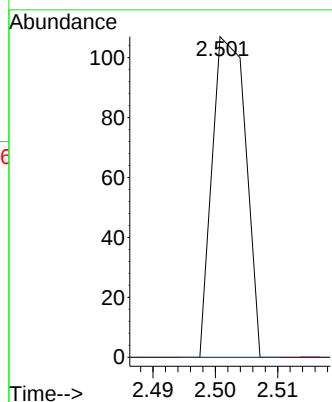
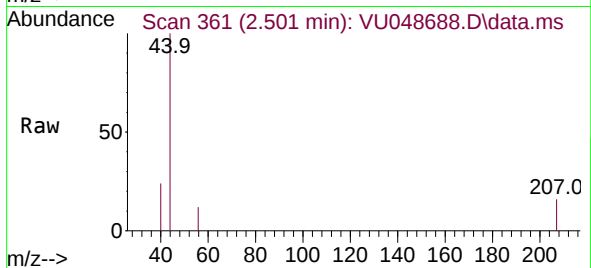
MW-2

Tgt Ion: 56 Resp: 40

Ion Ratio Lower Upper

56 100

55 0.0 57.7 86.5#



#16

Acetone

Concen: 4.311 ug/l

RT: 2.626 min Scan# 400

Delta R.T. -0.000 min

Lab File: VU048688.D

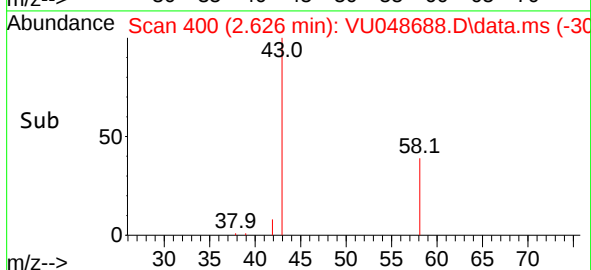
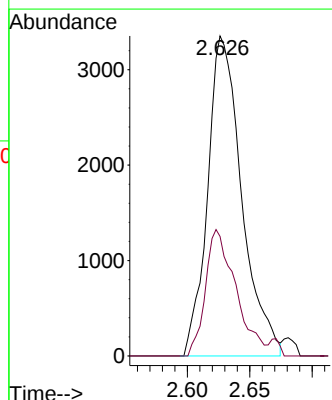
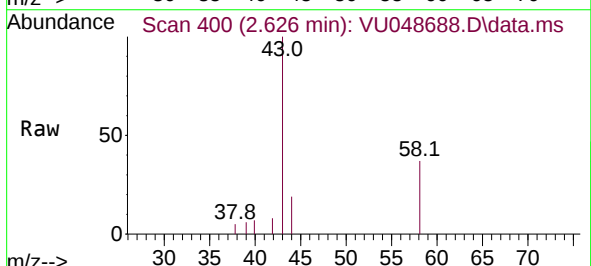
Acq: 27 May 2022 13:07

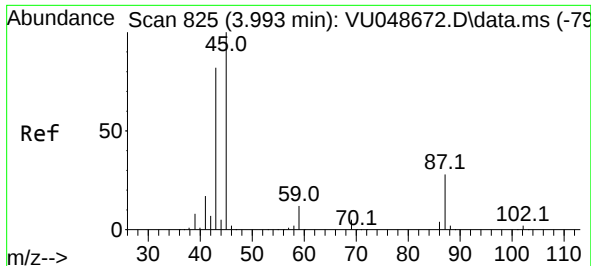
Tgt Ion: 43 Resp: 6379

Ion Ratio Lower Upper

43 100

58 37.4 26.3 39.5

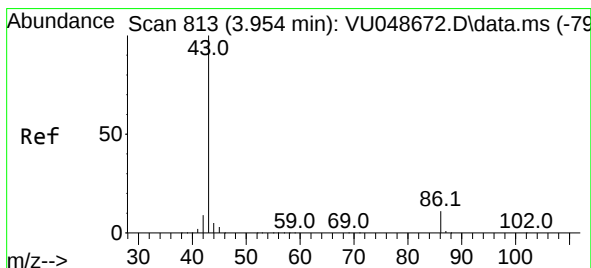
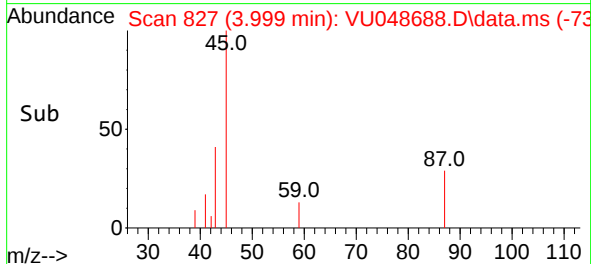
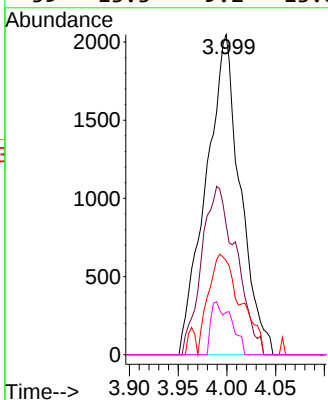
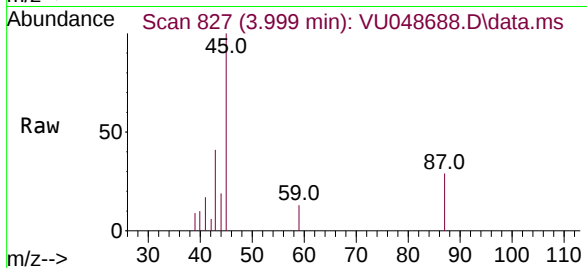




#22  
Diisopropyl ether  
Concen: 0.713 ug/l  
RT: 3.999 min Scan# 81  
Delta R.T. 0.006 min  
Lab File: VU048688.D  
Acq: 27 May 2022 13:07

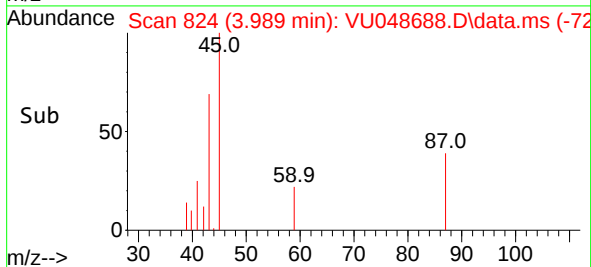
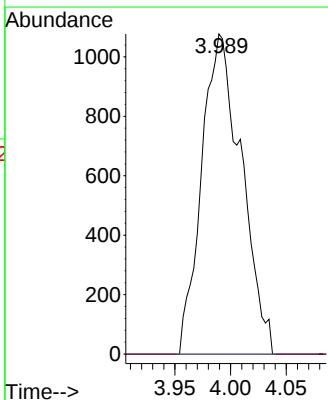
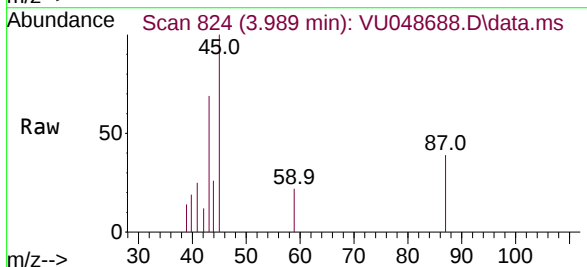
Instrument :  
MSVOA\_U  
ClientSampleId :  
MW-2

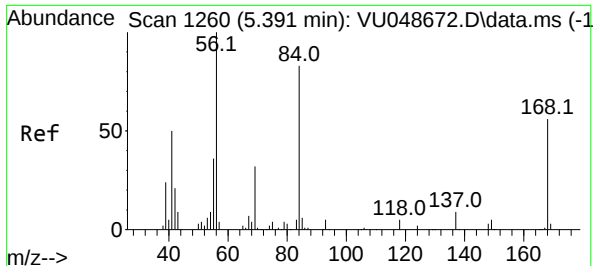
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 45    | Resp: | 5014  |
| Ion      | Ratio | Lower | Upper |
| 45       | 100   |       |       |
| 43       | 40.6  | 65.2  | 97.8# |
| 87       | 29.4  | 22.7  | 34.1  |
| 59       | 13.3  | 9.2   | 13.8  |



#23  
Vinyl Acetate  
Concen: 0.439 ug/l  
RT: 3.989 min Scan# 824  
Delta R.T. 0.035 min  
Lab File: VU048688.D  
Acq: 27 May 2022 13:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 2675  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 8.4   | 12.6# |





#31

Cyclohexane

Concen: 1.127 ug/l

RT: 5.375 min Scan# 1

Delta R.T. -0.016 min

Lab File: VU048688.D

Acq: 27 May 2022 13:07

Instrument :

MSVOA\_U

ClientSampleId :

MW-2

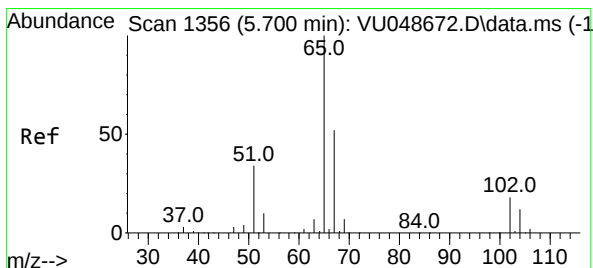
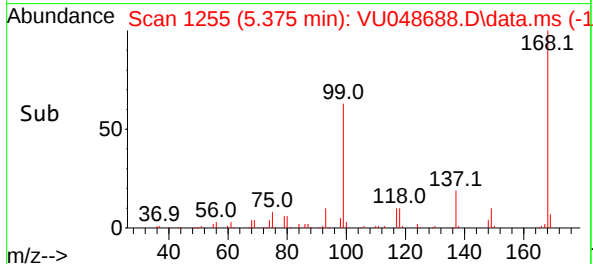
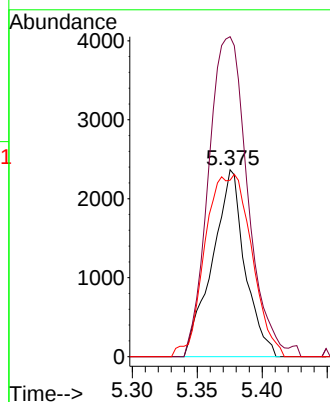
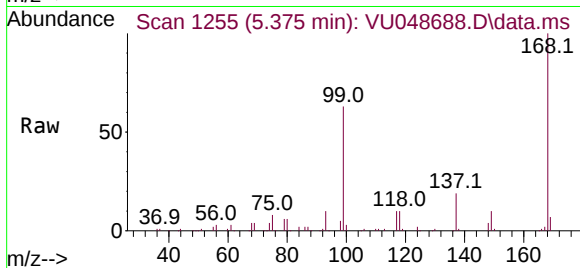
Tgt Ion: 56 Resp: 4123

Ion Ratio Lower Upper

56 100

69 171.3 25.6 38.4#

84 89.6 66.2 99.4



#33

1,2-Dichloroethane-d4

Concen: 55.445 ug/l

RT: 5.703 min Scan# 1357

Delta R.T. 0.003 min

Lab File: VU048688.D

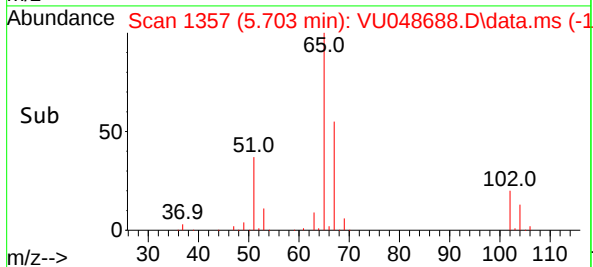
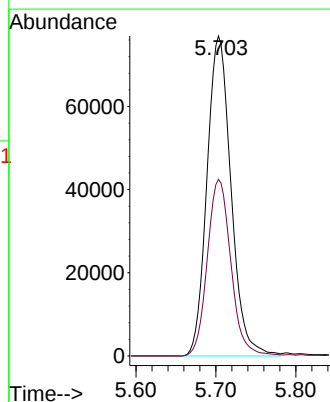
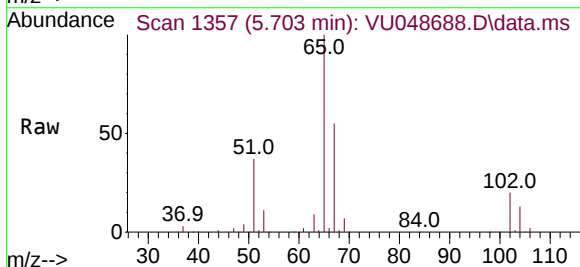
Acq: 27 May 2022 13:07

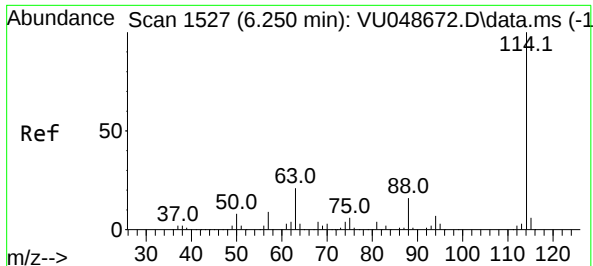
Tgt Ion: 65 Resp: 160982

Ion Ratio Lower Upper

65 100

67 54.1 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.250 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU048688.D

Acq: 27 May 2022 13:07

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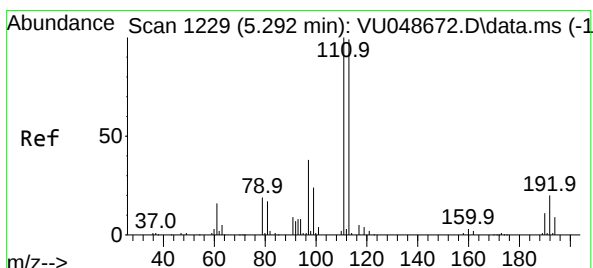
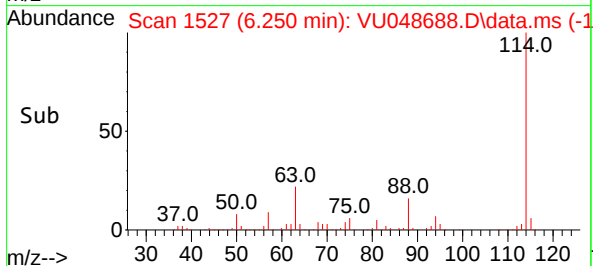
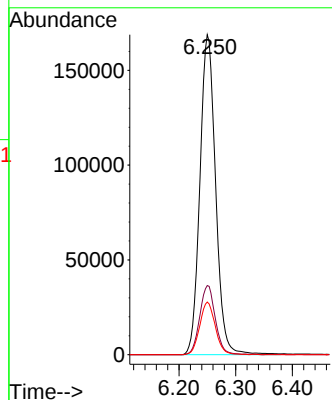
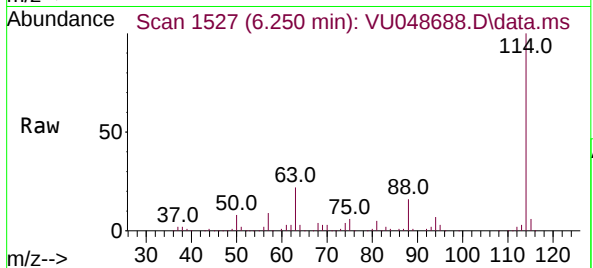
Tgt Ion:114 Resp: 325490

Ion Ratio Lower Upper

114 100

63 21.6 0.0 42.6

88 16.4 0.0 32.2



#35

Dibromofluoromethane

Concen: 58.770 ug/l

RT: 5.292 min Scan# 1229

Delta R.T. -0.000 min

Lab File: VU048688.D

Acq: 27 May 2022 13:07

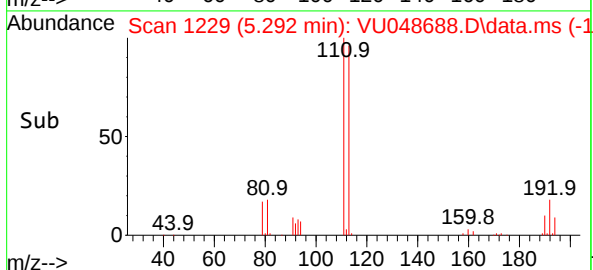
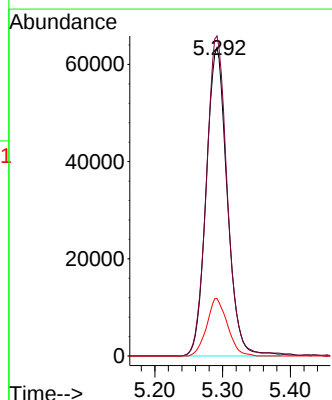
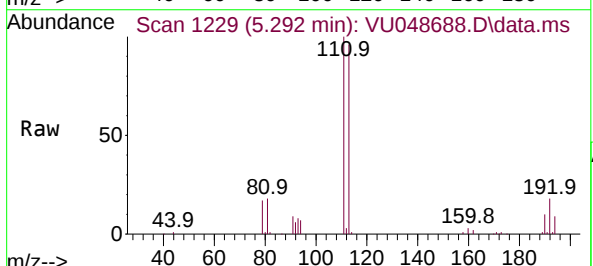
Tgt Ion:113 Resp: 136471

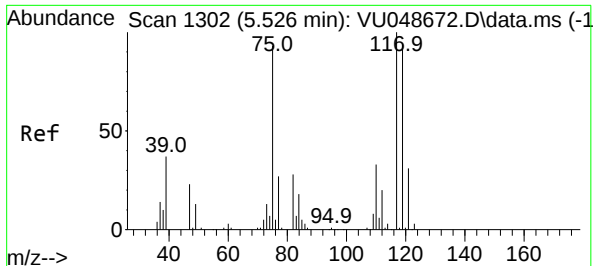
Ion Ratio Lower Upper

113 100

111 102.5 80.7 121.1

192 18.4 15.9 23.9





#36

1,1-Dichloropropene

Concen: 4.675 ug/l

RT: 5.372 min Scan# 11

Delta R.T. -0.154 min

Lab File: VU048688.D

Acq: 27 May 2022 13:07

Instrument :

MSVOA\_U

ClientSampleId :

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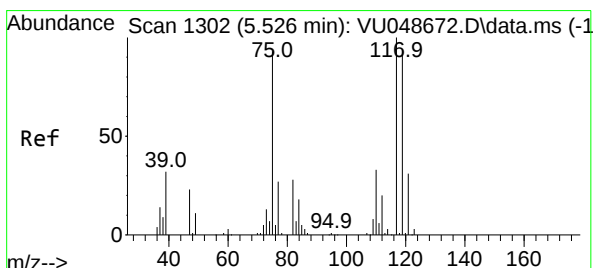
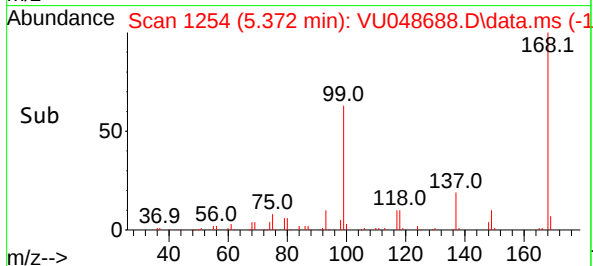
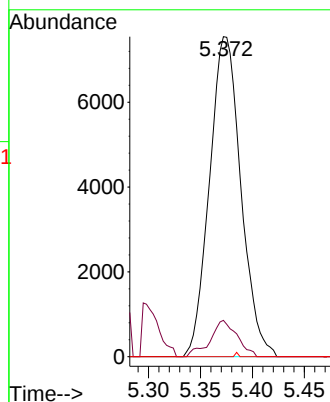
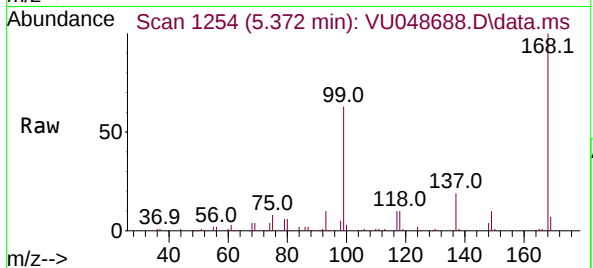
Tgt Ion: 75 Resp: 15845

Ion Ratio Lower Upper

75 100

110 9.7 17.4 52.3#

77 0.1 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 5.081 ug/l

RT: 5.375 min Scan# 1255

Delta R.T. -0.151 min

Lab File: VU048688.D

Acq: 27 May 2022 13:07

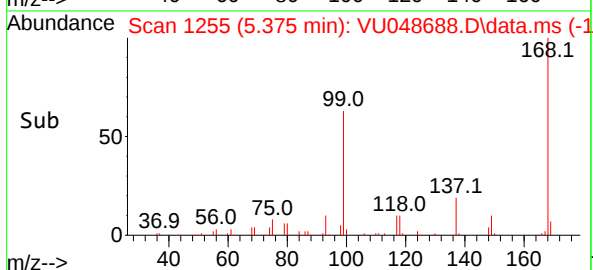
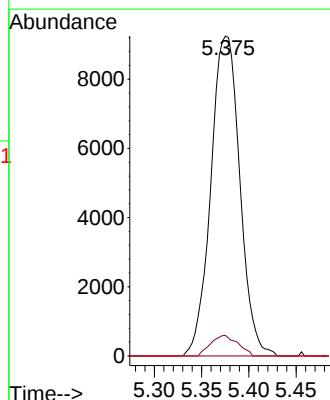
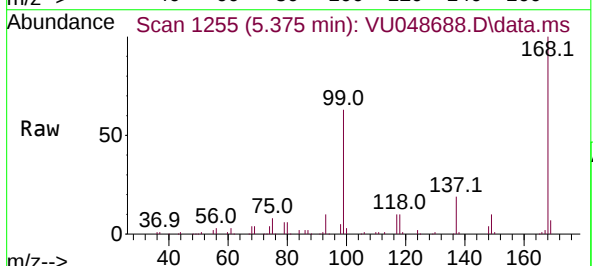
Tgt Ion: 117 Resp: 19755

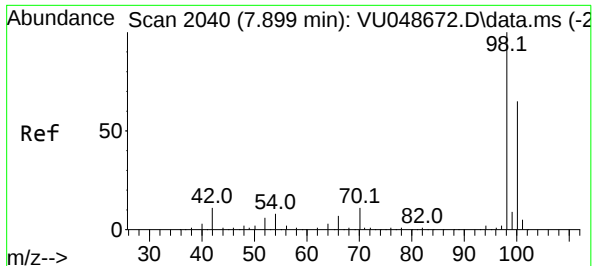
Ion Ratio Lower Upper

117 100

119 6.4 75.4 113.2#

121 0.0 24.6 36.8#

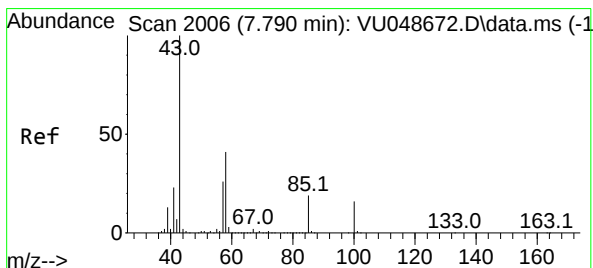
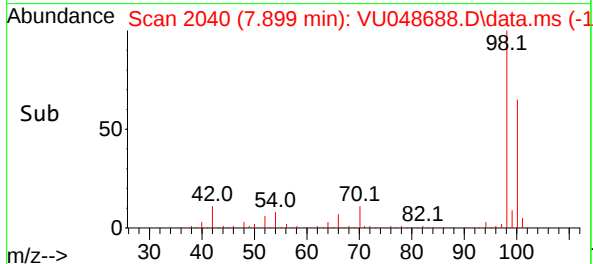
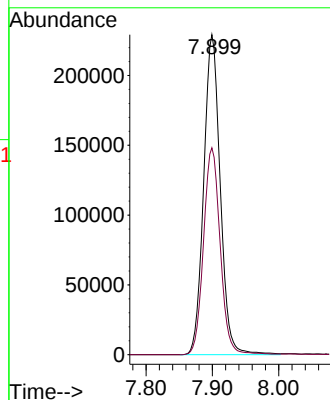
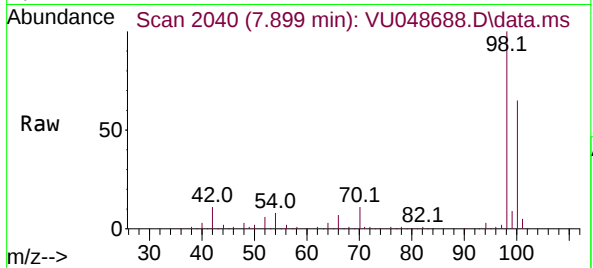




#50  
Toluene-d8  
Concen: 47.757 ug/l  
RT: 7.899 min Scan# 2040  
Delta R.T. -0.000 min  
Lab File: VU048688.D  
Acq: 27 May 2022 13:07

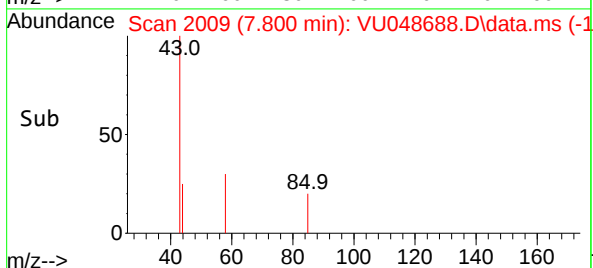
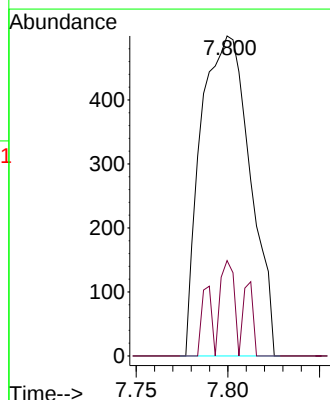
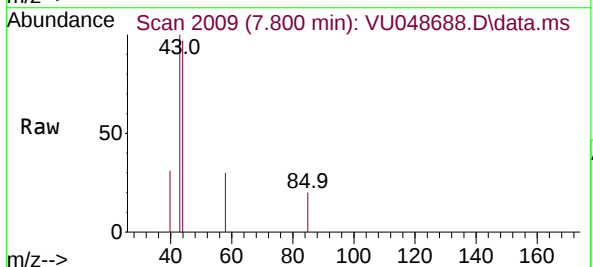
Instrument :  
MSVOA\_U  
ClientSampleId :  
MW-2

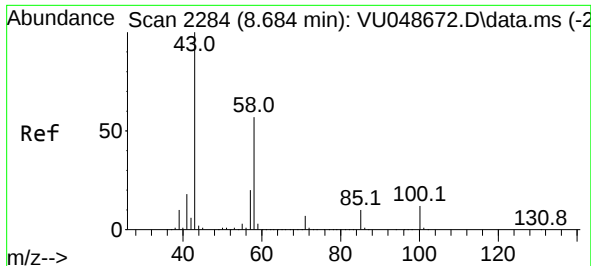
Tgt Ion: 98 Resp: 397529  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.2 78.4



#51  
4-Methyl-2-Pentanone  
Concen: 0.231 ug/l  
RT: 7.800 min Scan# 2009  
Delta R.T. 0.010 min  
Lab File: VU048688.D  
Acq: 27 May 2022 13:07

Tgt Ion: 43 Resp: 933  
Ion Ratio Lower Upper  
43 100  
58 0.0 32.7 49.1#





#59

2-Hexanone

Concen: 0.287 ug/l

RT: 8.697 min Scan# 21

Delta R.T. 0.013 min

Lab File: VU048688.D

Acq: 27 May 2022 13:07

Instrument :

MSVOA\_U

ClientSampleId :

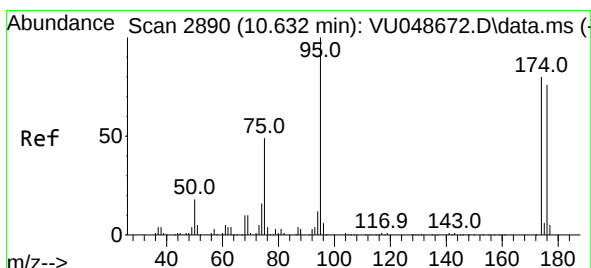
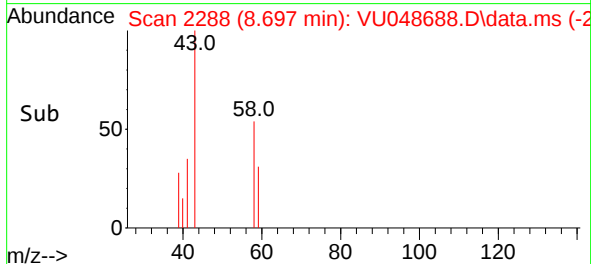
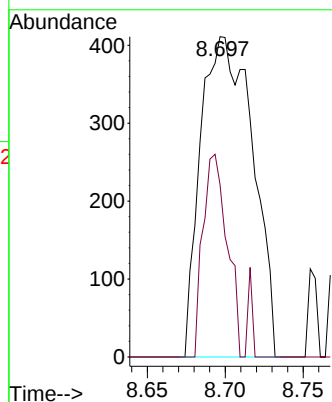
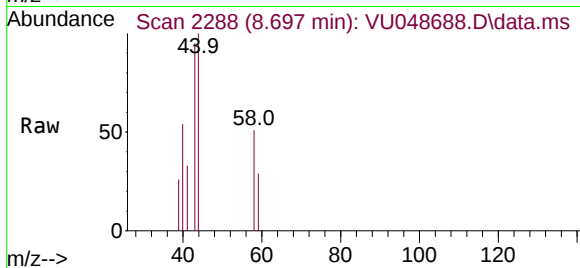
MW-2

Tgt Ion: 43 Resp: 953

Ion Ratio Lower Upper

43 100

58 29.4 28.2 84.6



#62

4-Bromofluorobenzene

Concen: 56.709 ug/l

RT: 10.632 min Scan# 2890

Delta R.T. -0.000 min

Lab File: VU048688.D

Acq: 27 May 2022 13:07

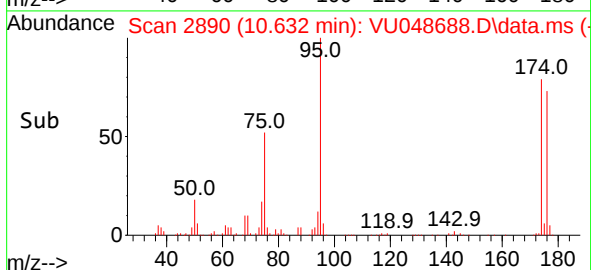
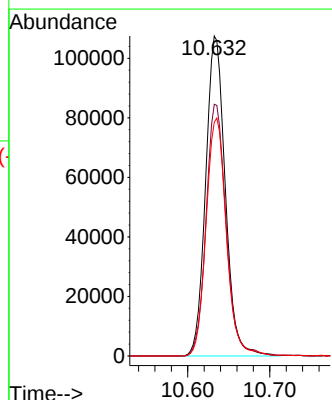
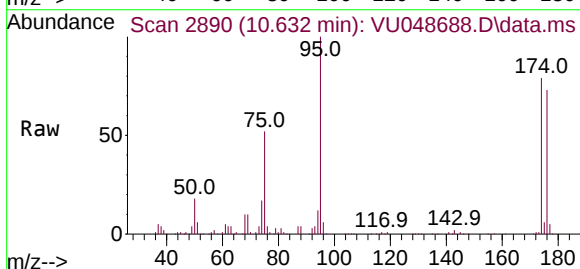
Tgt Ion: 95 Resp: 178524

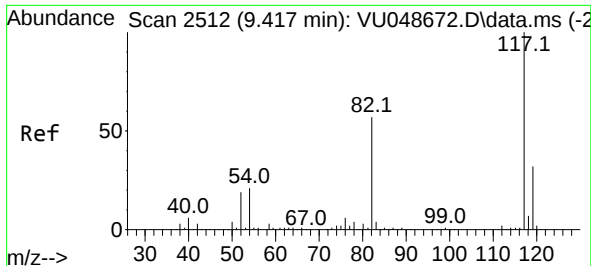
Ion Ratio Lower Upper

95 100

174 80.4 0.0 159.4

176 76.6 0.0 152.4

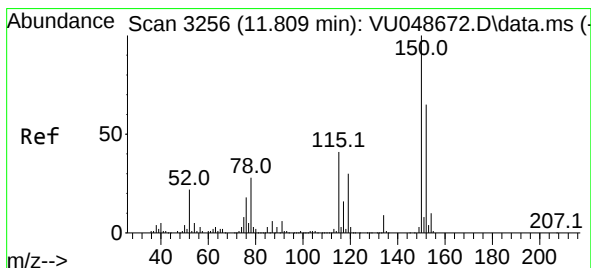
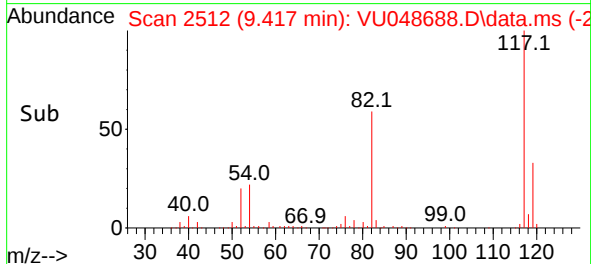
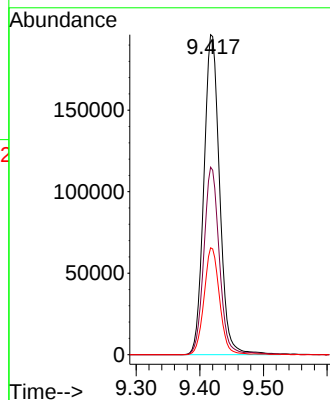
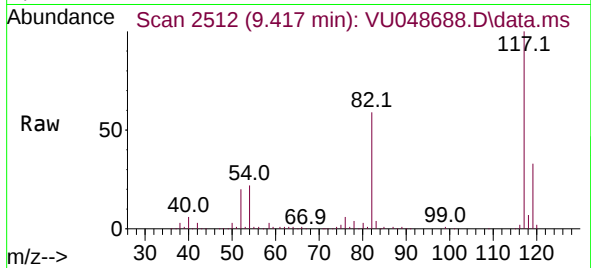




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.417 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU048688.D  
Acq: 27 May 2022 13:07

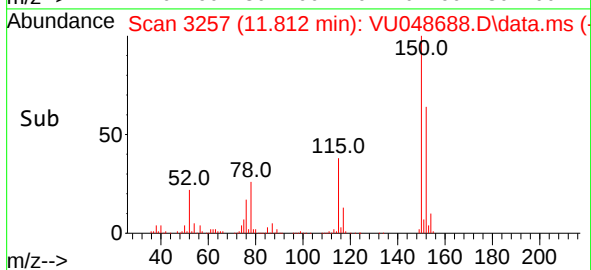
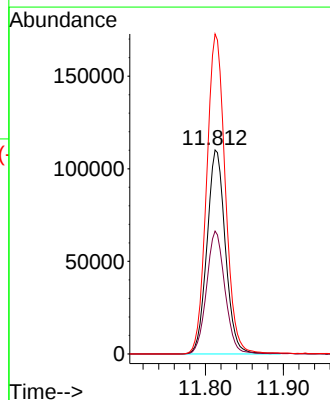
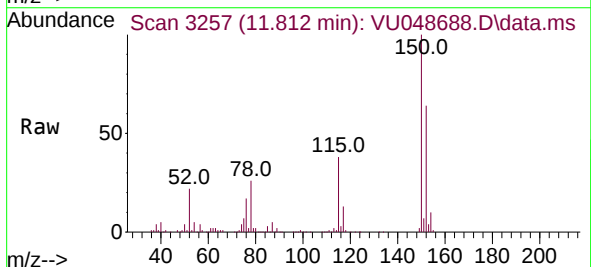
Instrument :  
MSVOA\_U  
ClientSampleId :  
MW-2

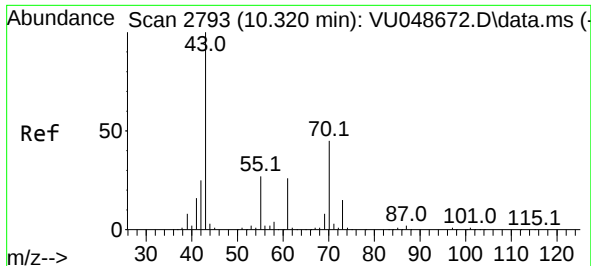
Tgt Ion:117 Resp: 338367  
Ion Ratio Lower Upper  
117 100  
82 58.6 45.3 67.9  
119 33.4 25.4 38.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.812 min Scan# 3257  
Delta R.T. 0.003 min  
Lab File: VU048688.D  
Acq: 27 May 2022 13:07

Tgt Ion:152 Resp: 180648  
Ion Ratio Lower Upper  
152 100  
115 60.3 41.8 125.4  
150 158.5 0.0 341.0

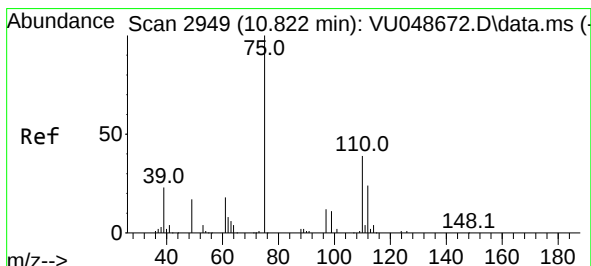
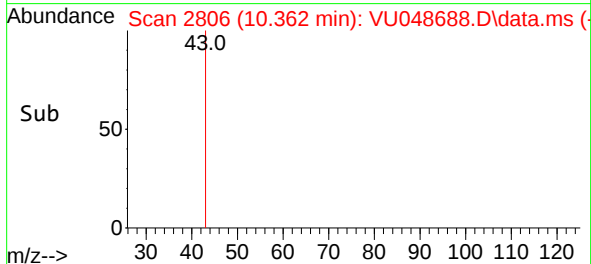
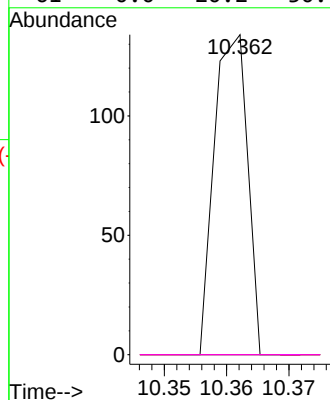
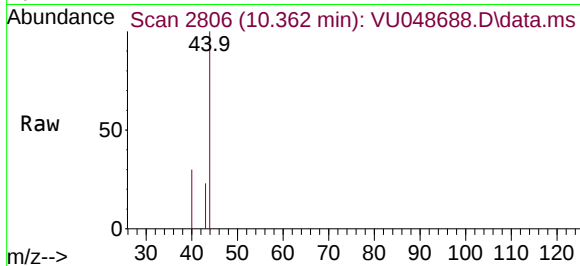




#74  
N-amy1 acetate  
Concen: 2.475 ug/l  
RT: 10.362 min Scan# 2806  
Delta R.T. 0.042 min  
Lab File: VU048688.D  
Acq: 27 May 2022 13:07

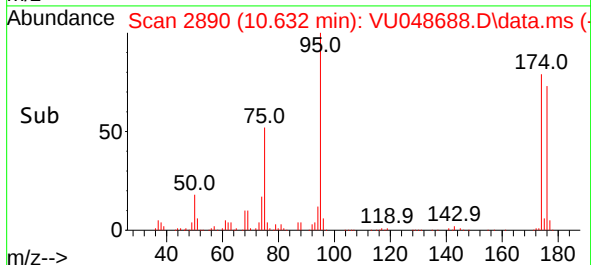
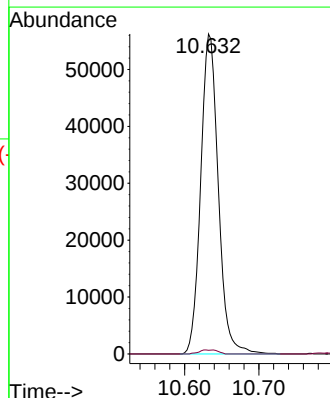
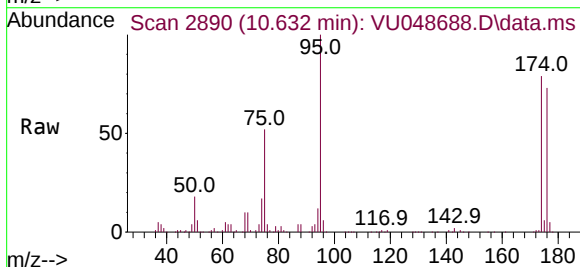
Instrument :  
MSVOA\_U  
ClientSampleId :  
MW-2

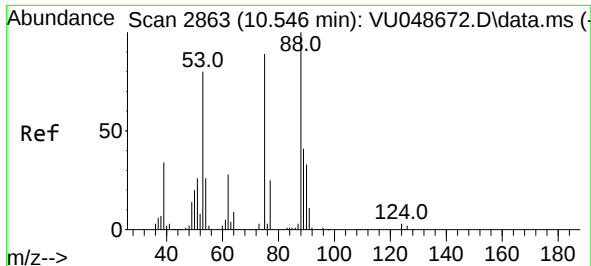
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 43 | Resp: | 50          |
| Ion         | Ratio | Lower Upper |
| 43          | 100   |             |
| 70          | 0.0   | 35.8 53.6#  |
| 55          | 0.0   | 21.1 31.7#  |
| 61          | 0.0   | 20.2 30.4#  |



#76  
1,2,3-Trichloropropane  
Concen: 15.868 ug/l  
RT: 10.632 min Scan# 2890  
Delta R.T. -0.190 min  
Lab File: VU048688.D  
Acq: 27 May 2022 13:07

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 75 | Resp: | 92426       |
| Ion         | Ratio | Lower Upper |
| 75          | 100   |             |
| 77          | 0.7   | 14.8 44.3#  |

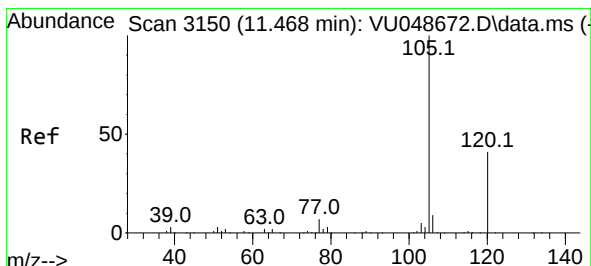
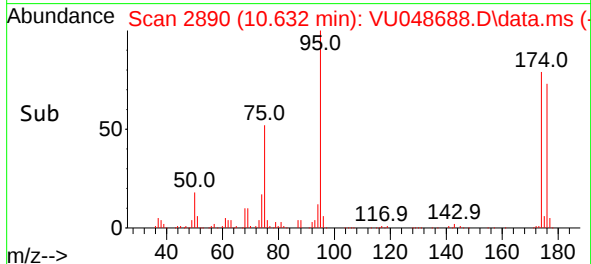
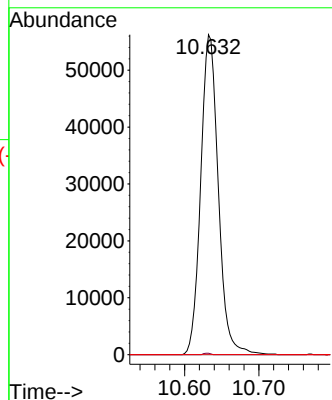
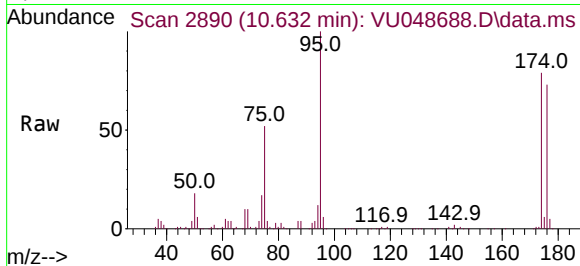




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 57.616 ug/l  
 RT: 10.632 min Scan# 2863  
 Delta R.T. 0.087 min  
 Lab File: VU048688.D  
 Acq: 27 May 2022 13:07

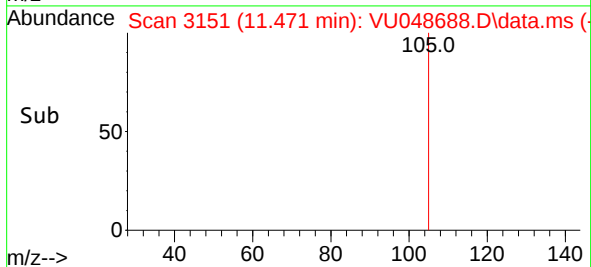
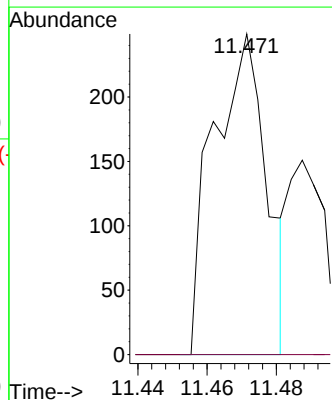
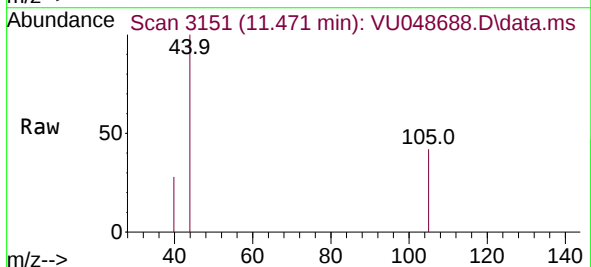
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MW-2

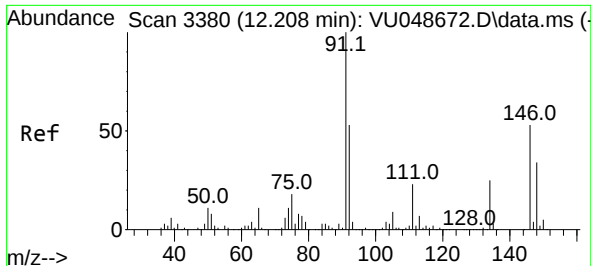
Tgt Ion: 75 Resp: 92426  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 72.5 108.7#  
 89 0.0 37.0 55.4#



#84  
 1,2,4-Trimethylbenzene  
 Concen: 1.211 ug/l  
 RT: 11.471 min Scan# 3151  
 Delta R.T. 0.003 min  
 Lab File: VU048688.D  
 Acq: 27 May 2022 13:07

Tgt Ion: 105 Resp: 265  
 Ion Ratio Lower Upper  
 105 100  
 120 0.0 22.5 67.5#





#89

n-Butylbenzene

Concen: 2.241 ug/l

RT: 12.221 min Scan# 3384

Delta R.T. 0.013 min

Lab File: VU048688.D

Acq: 27 May 2022 13:07

Instrument :

MSVOA\_U

ClientSampleId :

MW-2

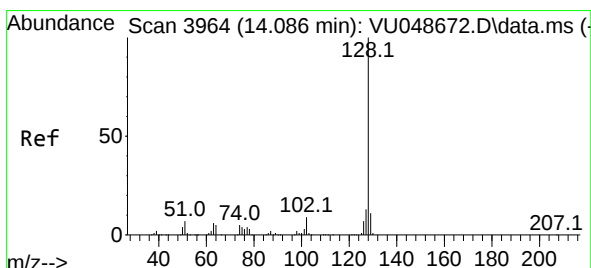
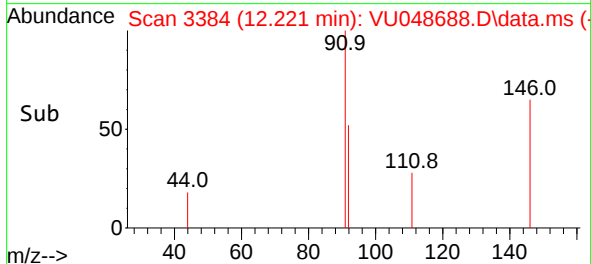
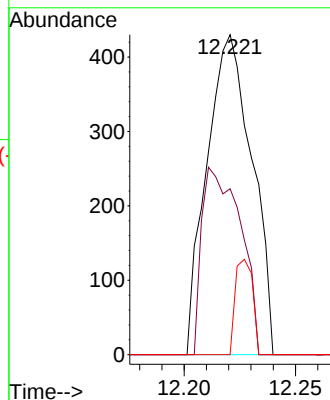
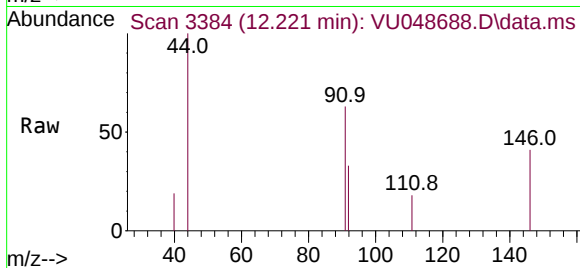
Tgt Ion: 91 Resp: 605

Ion Ratio Lower Upper

91 100

92 50.4 25.9 77.8

134 11.4 12.5 37.5#



#95

Naphthalene

Concen: 2.759 ug/l

RT: 14.102 min Scan# 3969

Delta R.T. 0.016 min

Lab File: VU048688.D

Acq: 27 May 2022 13:07

Tgt Ion: 128 Resp: 3392

Ion Ratio Lower Upper

128 100

127 3.6 10.2 15.4#

129 8.7 8.7 13.1#

