

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU111021\  
 Data File : VU045710.D  
 Acq On : 11 Nov 2021 00:36  
 Operator : SY/MD  
 Sample : M4594-11DL 20X  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Nov 11 02:35:23 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U110521W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 05 13:35:16 2021  
 Response via : Initial Calibration

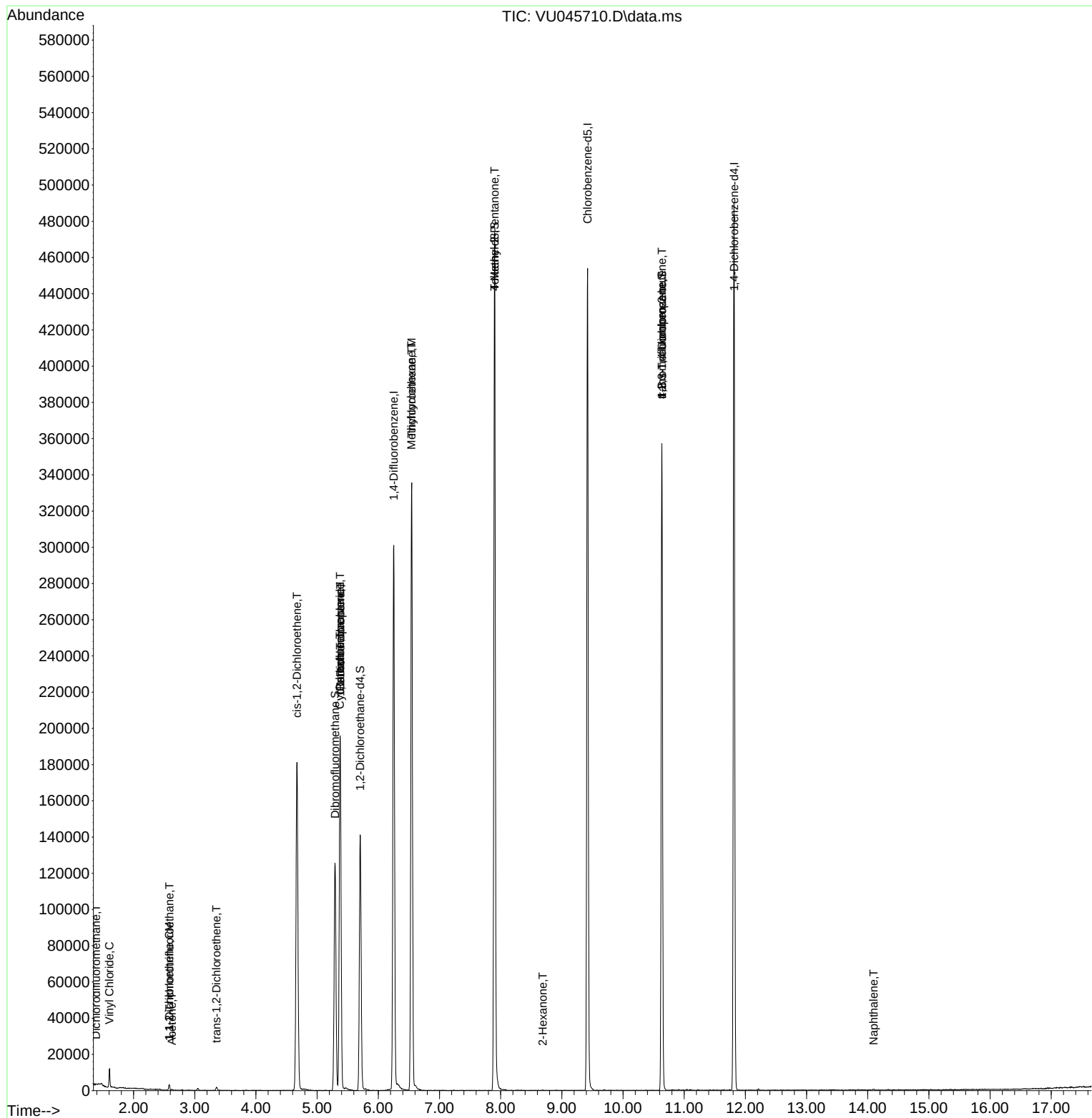
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.375  | 168   | 127108   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.253  | 114   | 234147   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 9.420  | 117   | 246016   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.816 | 152   | 122654   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.703  | 65    | 103656   | 54.453   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 108.900% |
| 35) Dibromofluoromethane      | 5.292  | 113   | 80116    | 51.249   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 102.500% |
| 50) Toluene-d8                | 7.903  | 98    | 309820   | 53.298   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 106.600% |
| 62) 4-Bromofluorobenzene      | 10.636 | 95    | 119448   | 51.243   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 102.480% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.385  | 85    | 530      | 0.322    | ug/l   | 92       |
| 4) Vinyl Chloride             | 1.607  | 62    | 6265     | 3.411    | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.588  | 101   | 688      | 0.485    | ug/l # | 78       |
| 12) 1,1-Dichloroethene        | 2.581  | 96    | 523      | 0.374    | ug/l   | 91       |
| 16) Acetone                   | 2.626  | 43    | 540      | 0.557    | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene  | 3.356  | 96    | 749      | 0.515    | ug/l # | 88       |
| 27) cis-1,2-Dichloroethene    | 4.671  | 96    | 93384    | 54.651   | ug/l   | 90       |
| 31) Cyclohexane               | 5.372  | 56    | 3075     | 1.107    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.378  | 75    | 11275    | 4.938    | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.375  | 117   | 14415    | 6.263    | ug/l # | 15       |
| 39) Methylcyclohexane         | 6.542  | 83    | 1547     | 0.552    | ug/l # | 1        |
| 44) Trichloroethene           | 6.546  | 130   | 109116   | 67.439   | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone      | 7.903  | 43    | 1362     | 0.515    | ug/l # | 1        |
| 59) 2-Hexanone                | 8.687  | 43    | 188      | 7.614    | ug/l # | 21       |
| 76) 1,2,3-Trichloropropane    | 10.636 | 75    | 63052    | 16.951   | ug/l # | 42       |
| 81) trans-1,4-Dichloro-2-b... | 10.636 | 75    | 63052    | 55.201   | ug/l # | 12       |
| 95) Naphthalene               | 14.095 | 128   | 710      | 1.099    | ug/l # | 69       |
| -----                         |        |       |          |          |        |          |

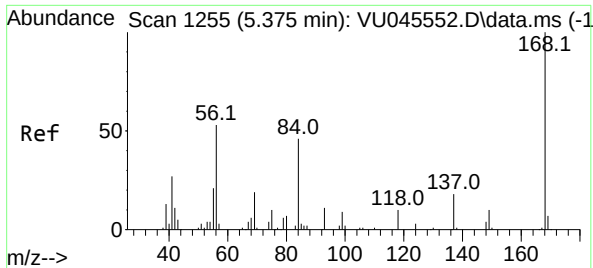
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Nov 05 13:35:16 2021  
Response via : Initial Calibration

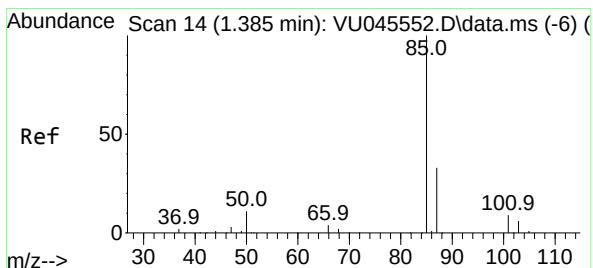
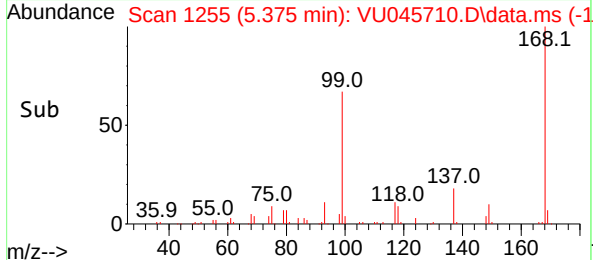
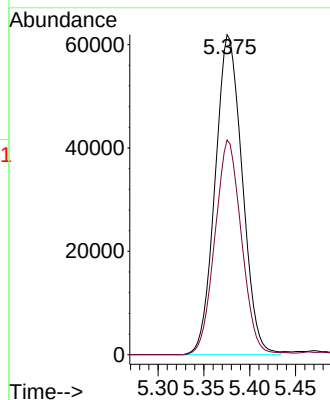
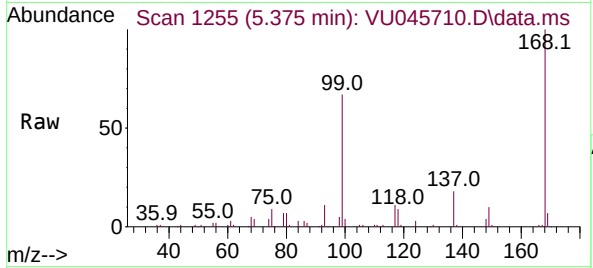




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.375 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU045710.D  
Acq: 11 Nov 2021 00:36

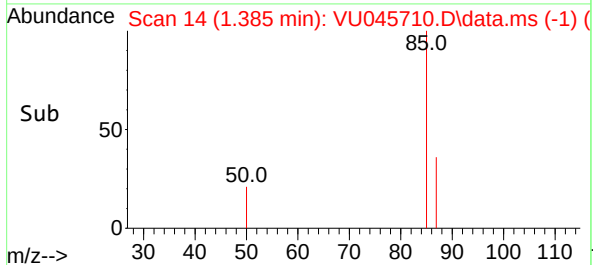
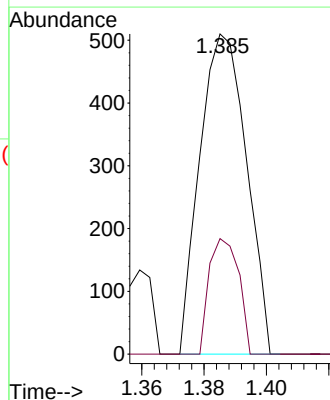
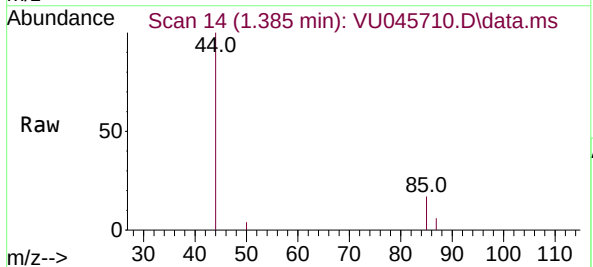
Instrument :  
MSVOA\_U  
ClientSampleId :

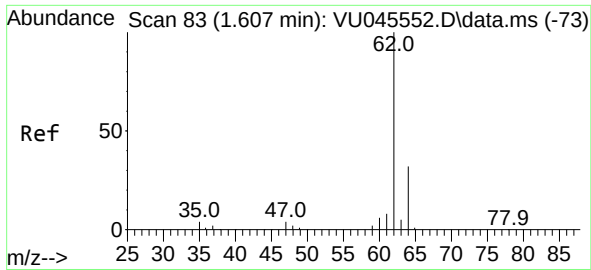
Tgt Ion:168 Resp: 127108  
Ion Ratio Lower Upper  
168 100  
99 67.1 51.0 76.6



#2  
Dichlorodifluoromethane  
Concen: 0.322 ug/l  
RT: 1.385 min Scan# 14  
Delta R.T. 0.000 min  
Lab File: VU045710.D  
Acq: 11 Nov 2021 00:36

Tgt Ion: 85 Resp: 530  
Ion Ratio Lower Upper  
85 100  
87 36.1 15.9 47.7

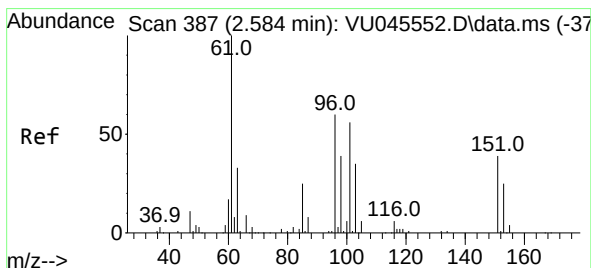
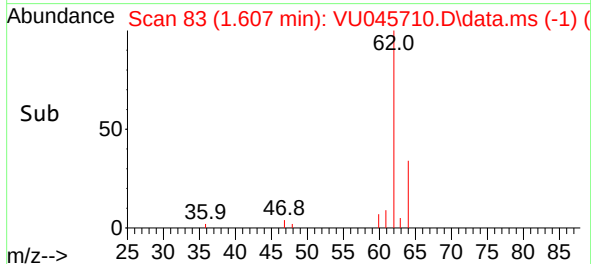
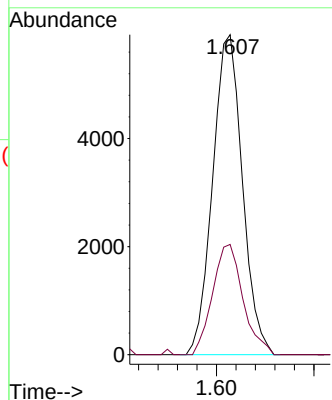
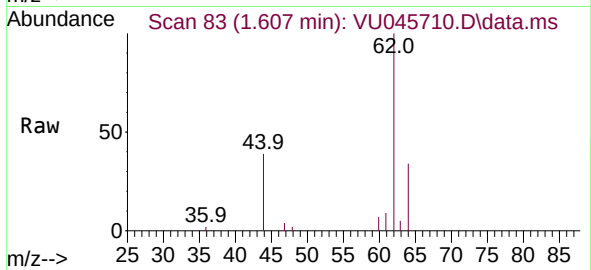




#4  
 Vinyl Chloride  
 Concen: 3.411 ug/l  
 RT: 1.607 min Scan# 81  
 Delta R.T. 0.000 min  
 Lab File: VU045710.D  
 Acq: 11 Nov 2021 00:36

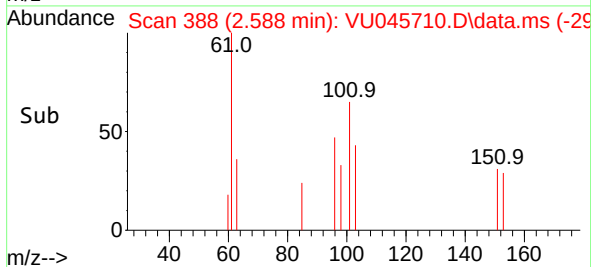
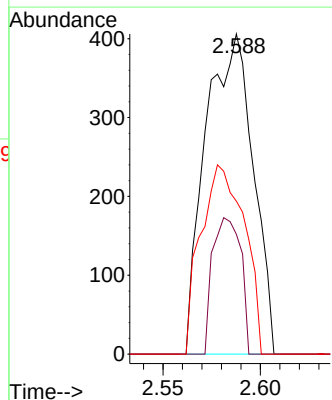
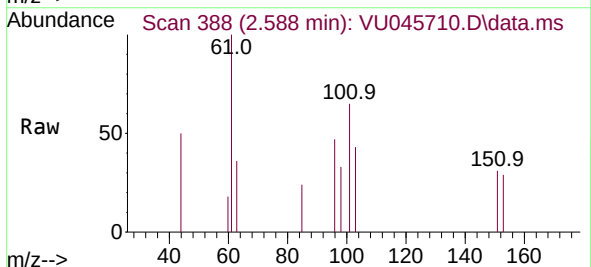
Instrument :  
 MSVOA\_U  
 ClientSampleId :

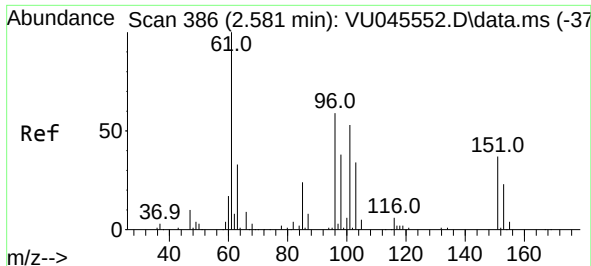
Tgt Ion: 62 Resp: 6265  
 Ion Ratio Lower Upper  
 62 100  
 64 34.4 25.8 38.6



#9  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.485 ug/l  
 RT: 2.588 min Scan# 388  
 Delta R.T. 0.003 min  
 Lab File: VU045710.D  
 Acq: 11 Nov 2021 00:36

Tgt Ion: 101 Resp: 688  
 Ion Ratio Lower Upper  
 101 100  
 85 25.1 35.0 52.4#  
 151 54.4 54.6 82.0#





#12

1,1-Dichloroethene

Concen: 0.374 ug/l

RT: 2.581 min Scan# 386

Delta R.T. 0.000 min

Lab File: VU045710.D

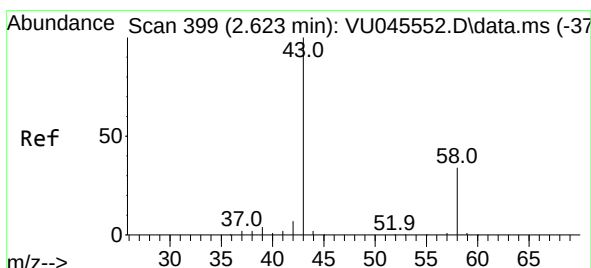
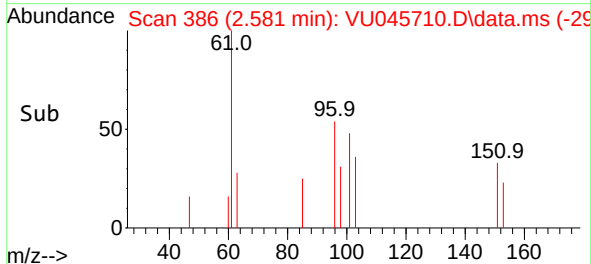
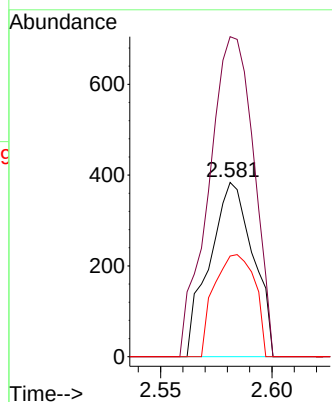
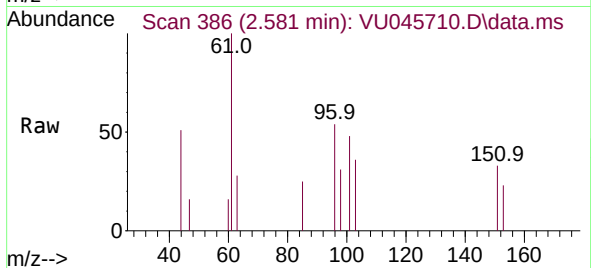
Acq: 11 Nov 2021 00:36

Instrument :

MSVOA\_U

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 523   |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 183.6 | 137.1 | 205.7 |
| 98       | 57.8  | 51.5  | 77.3  |



#16

Acetone

Concen: 0.557 ug/l

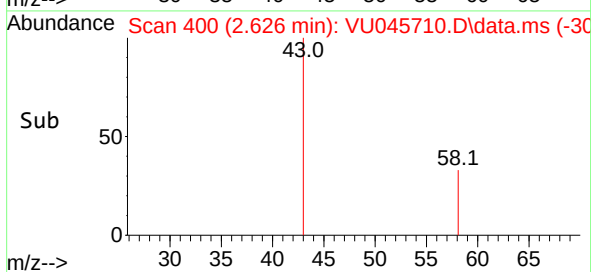
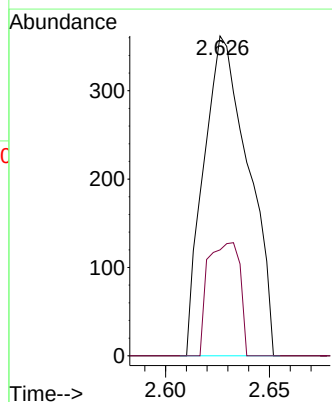
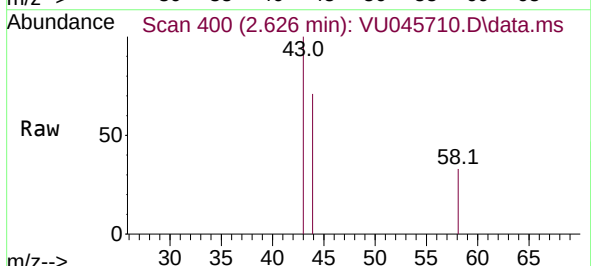
RT: 2.626 min Scan# 400

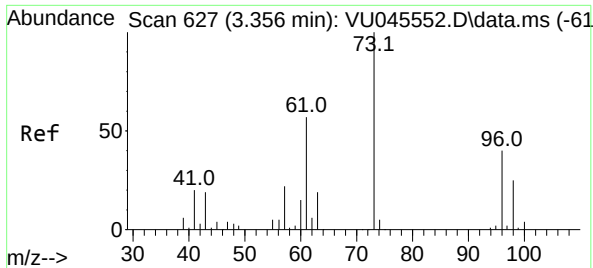
Delta R.T. 0.003 min

Lab File: VU045710.D

Acq: 11 Nov 2021 00:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 540   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 33.1  | 26.2  | 39.2  |

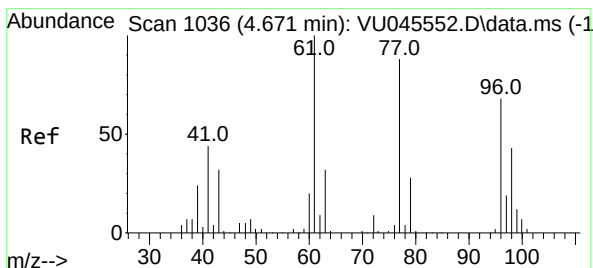
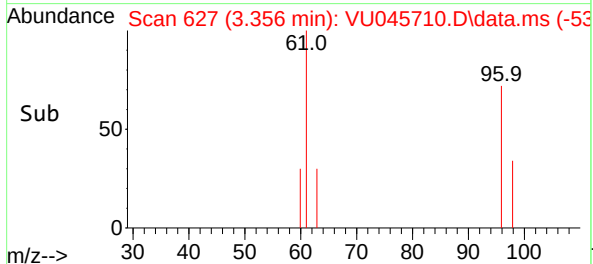
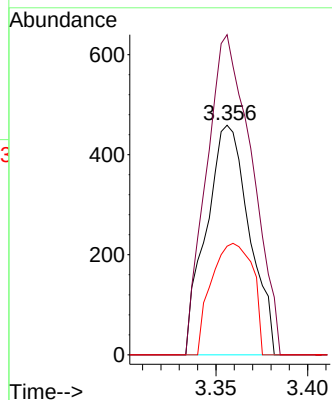
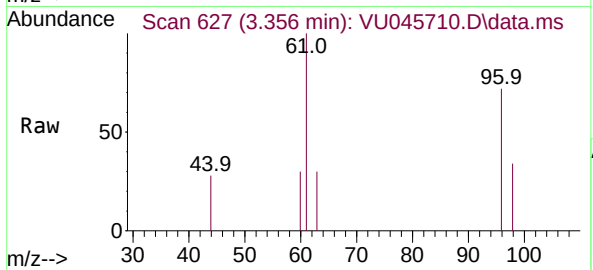




#21  
trans-1,2-Dichloroethene  
Concen: 0.515 ug/l  
RT: 3.356 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VU045710.D  
Acq: 11 Nov 2021 00:36

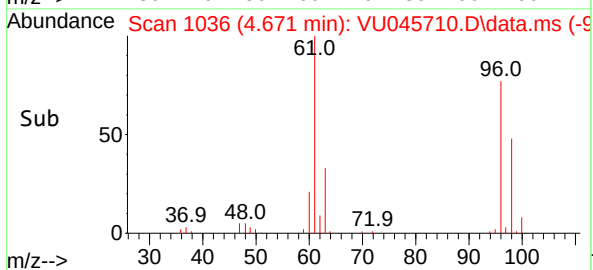
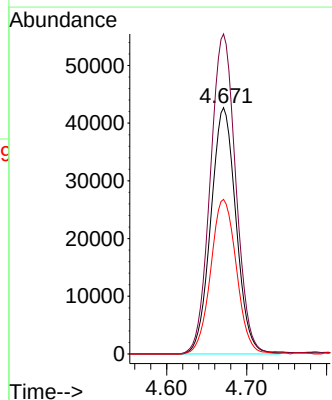
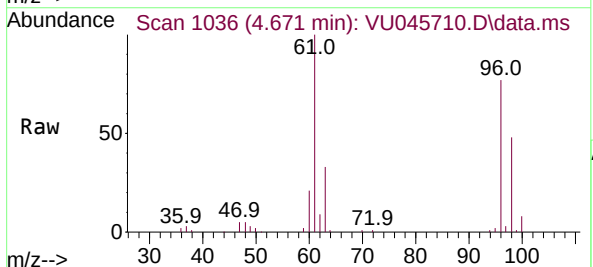
Instrument :  
MSVOA\_U  
ClientSampleId :

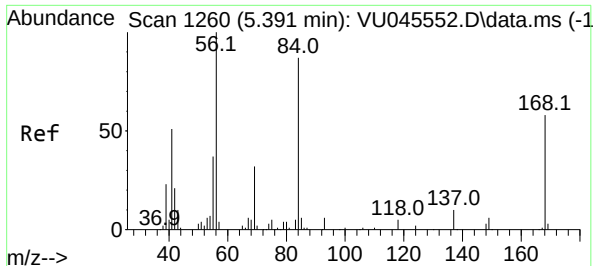
Tgt Ion: 96 Resp: 749  
Ion Ratio Lower Upper  
96 100  
61 139.4 118.2 177.4  
98 47.3 52.1 78.1#



#27  
cis-1,2-Dichloroethene  
Concen: 54.651 ug/l  
RT: 4.671 min Scan# 1036  
Delta R.T. 0.000 min  
Lab File: VU045710.D  
Acq: 11 Nov 2021 00:36

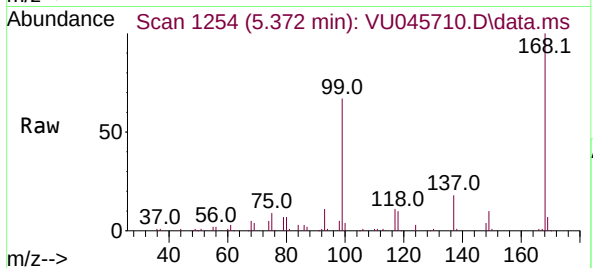
Tgt Ion: 96 Resp: 93384  
Ion Ratio Lower Upper  
96 100  
61 131.8 0.0 299.2  
98 64.1 0.0 127.6



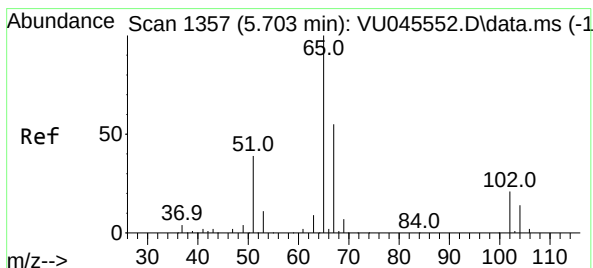
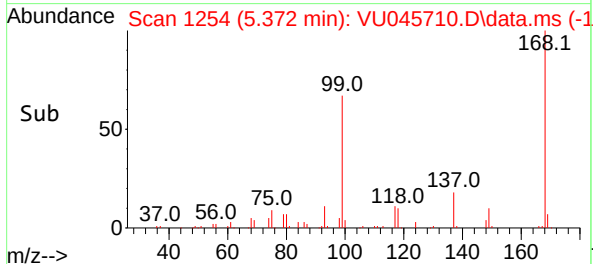
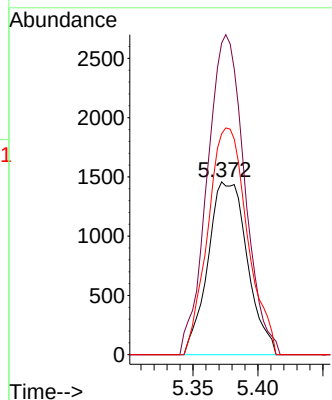


#31  
Cyclohexane  
Concen: 1.107 ug/l  
RT: 5.372 min Scan# 1260  
Delta R.T. -0.019 min  
Lab File: VU045710.D  
Acq: 11 Nov 2021 00:36

Instrument :  
MSVOA\_U  
ClientSampleId :

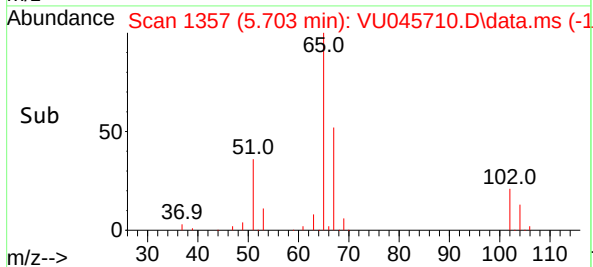
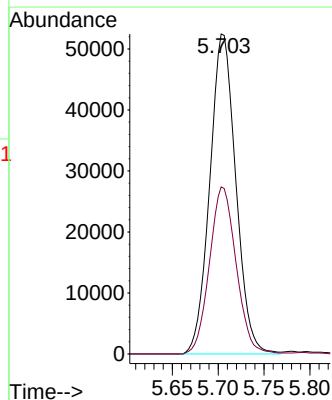
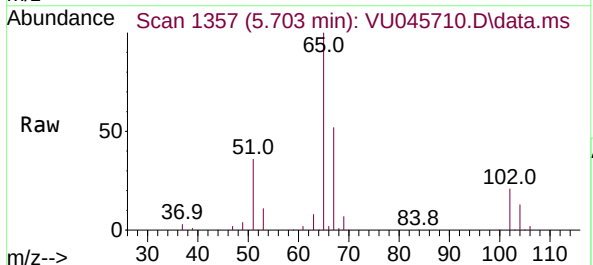


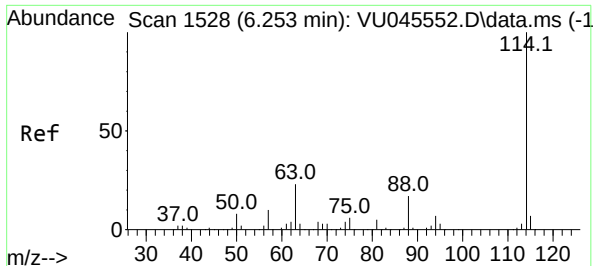
Tgt Ion: 56 Resp: 3075  
Ion Ratio Lower Upper  
56 100  
69 180.4 26.4 39.6#  
84 127.9 68.4 102.6#



#33  
1,2-Dichloroethane-d4  
Concen: 54.453 ug/l  
RT: 5.703 min Scan# 1357  
Delta R.T. 0.000 min  
Lab File: VU045710.D  
Acq: 11 Nov 2021 00:36

Tgt Ion: 65 Resp: 103656  
Ion Ratio Lower Upper  
65 100  
67 53.4 0.0 105.8

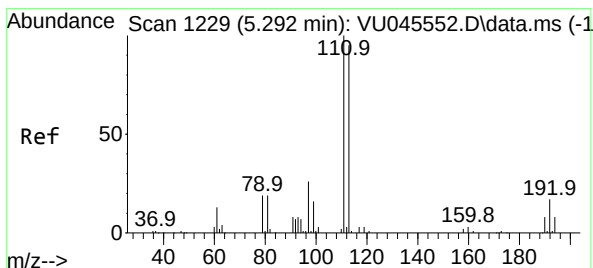
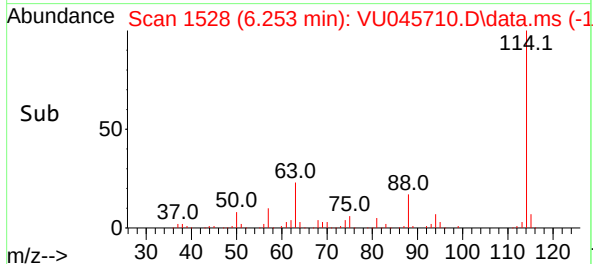
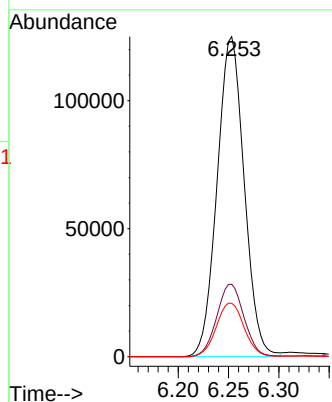
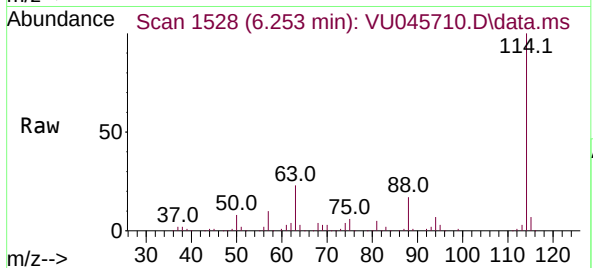




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.253 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU045710.D  
Acq: 11 Nov 2021 00:36

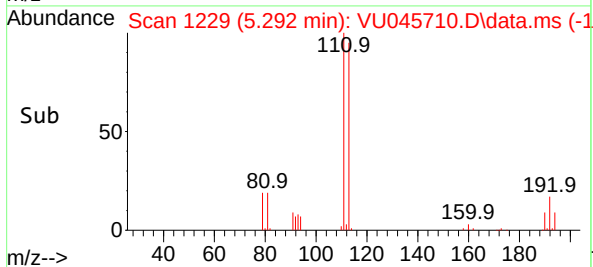
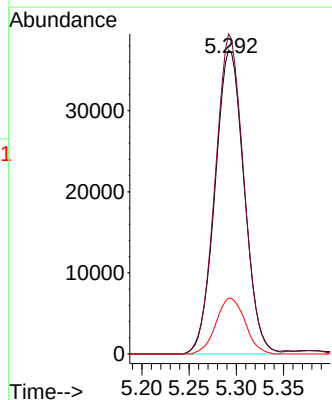
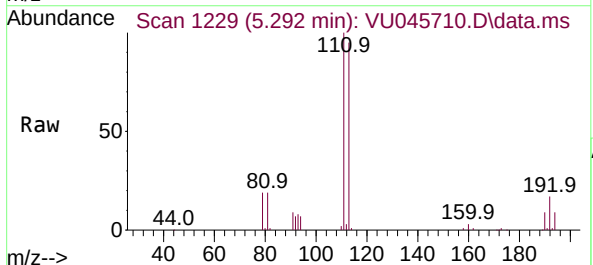
Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion:114 Resp: 234147  
Ion Ratio Lower Upper  
114 100  
63 22.7 0.0 45.6  
88 16.7 0.0 33.8

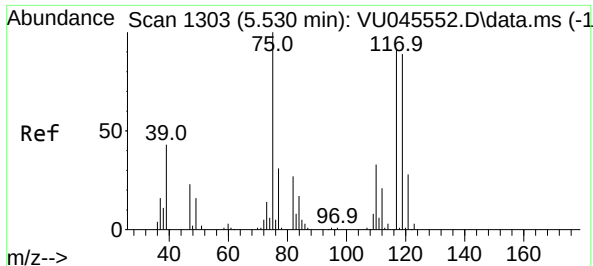


#35  
Dibromofluoromethane  
Concen: 51.249 ug/l  
RT: 5.292 min Scan# 1229  
Delta R.T. 0.000 min  
Lab File: VU045710.D  
Acq: 11 Nov 2021 00:36

Tgt Ion:113 Resp: 80116  
Ion Ratio Lower Upper  
113 100  
111 103.4 82.8 124.2  
192 18.4 14.8 22.2







#36

1,1-Dichloropropene

Concen: 4.938 ug/l

RT: 5.378 min Scan# 11

Delta R.T. -0.151 min

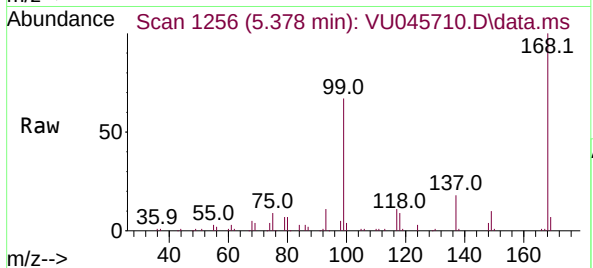
Lab File: VU045710.D

Acq: 11 Nov 2021 00:36

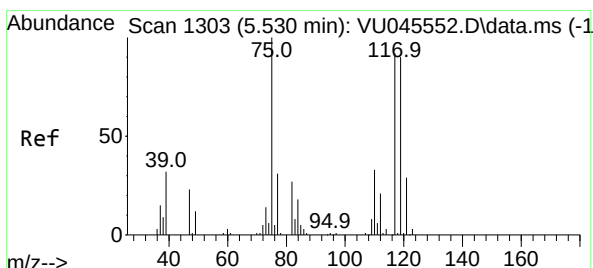
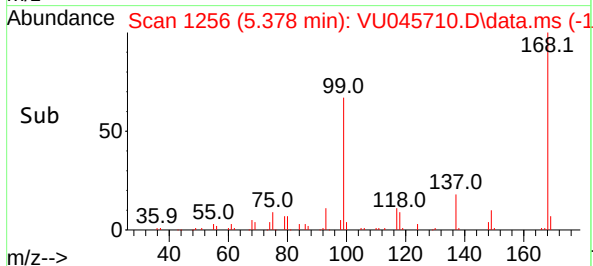
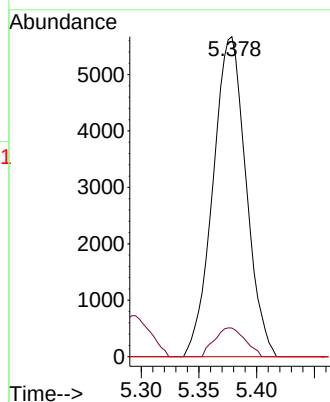
Instrument :

MSVOA\_U

ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 11275 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 8.3   | 16.7  | 50.0# |
| 77        | 0.0   | 25.0  | 37.4# |



#38

Carbon Tetrachloride

Concen: 6.263 ug/l

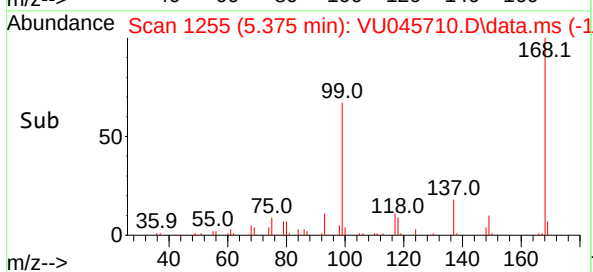
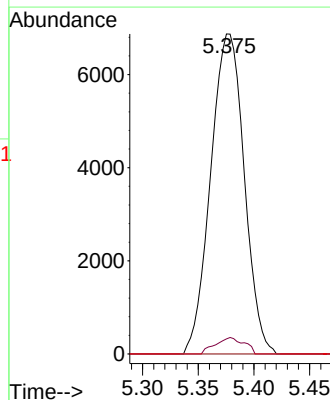
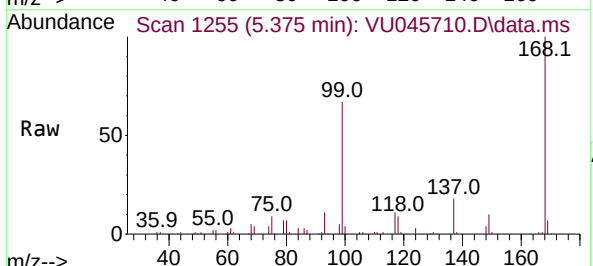
RT: 5.375 min Scan# 1255

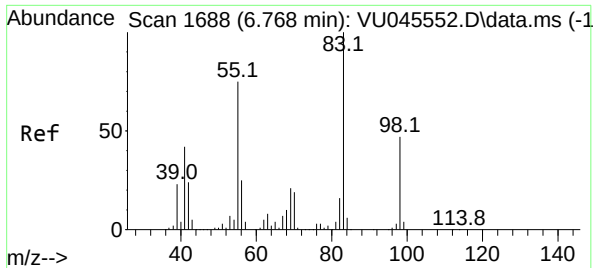
Delta R.T. -0.154 min

Lab File: VU045710.D

Acq: 11 Nov 2021 00:36

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 14415  |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 4.7   | 77.4  | 116.0# |
| 121       | 0.0   | 24.8  | 37.2#  |





#39

Methylcyclohexane

Concen: 0.552 ug/l

RT: 6.542 min Scan# 1

Delta R.T. -0.225 min

Lab File: VU045710.D

Acq: 11 Nov 2021 00:36

Instrument :

MSVOA\_U

ClientSampleId :

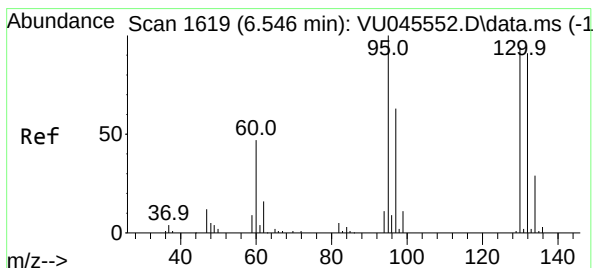
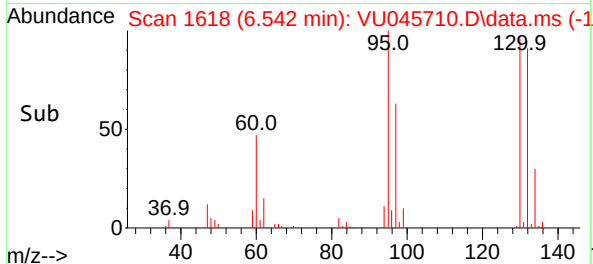
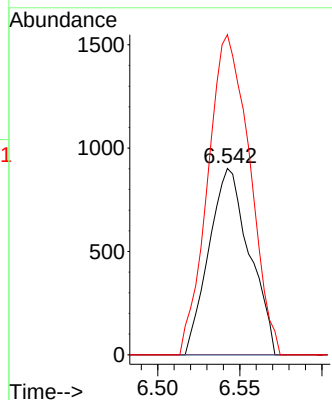
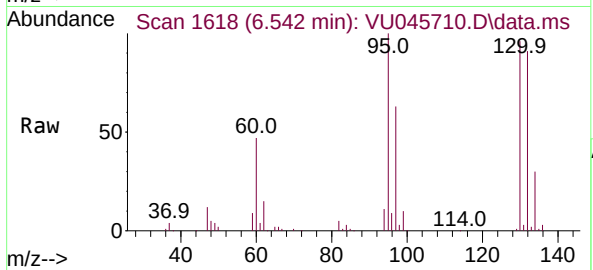
Tgt Ion: 83 Resp: 1547

Ion Ratio Lower Upper

83 100

55 0.0 63.6 95.4#

98 171.7 37.1 55.7#



#44

Trichloroethene

Concen: 67.439 ug/l

RT: 6.546 min Scan# 1619

Delta R.T. 0.000 min

Lab File: VU045710.D

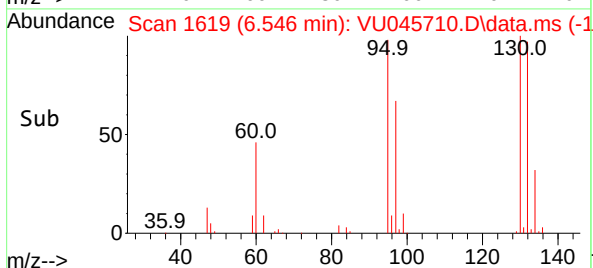
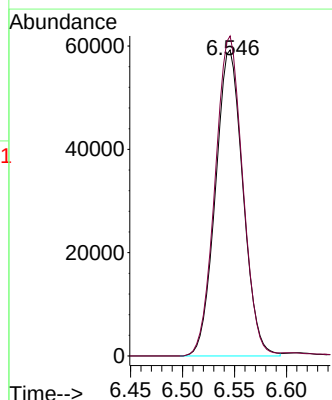
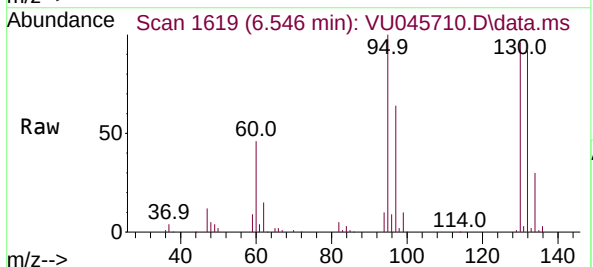
Acq: 11 Nov 2021 00:36

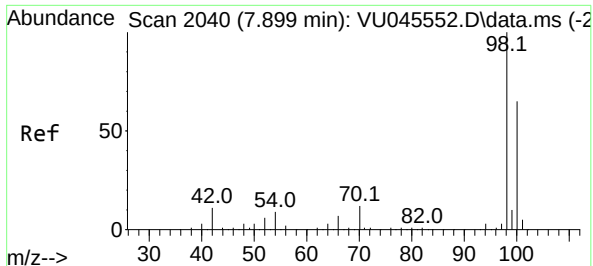
Tgt Ion:130 Resp: 109116

Ion Ratio Lower Upper

130 100

95 104.6 0.0 211.4





#50

Toluene-d8

Concen: 53.298 ug/l

RT: 7.903 min Scan# 2041

Delta R.T. 0.003 min

Lab File: VU045710.D

Acq: 11 Nov 2021 00:36

Instrument :

MSVOA\_U

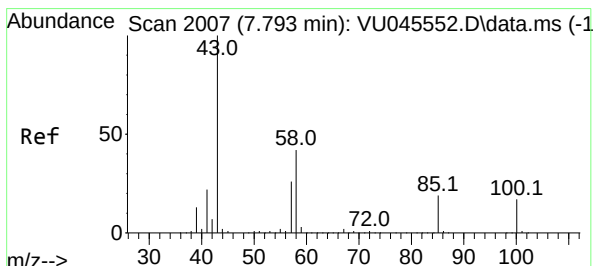
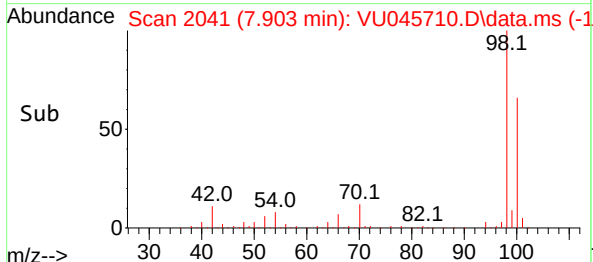
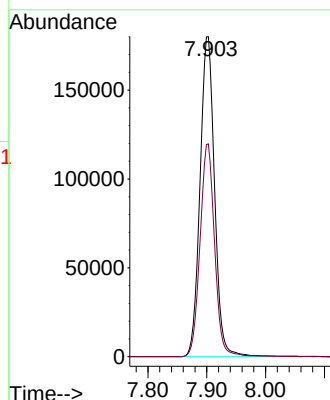
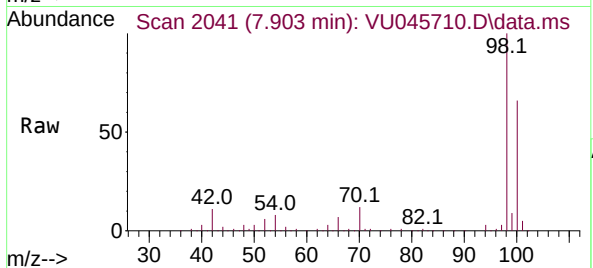
ClientSampleId :

Tgt Ion: 98 Resp: 309820

Ion Ratio Lower Upper

98 100

100 66.2 52.5 78.7



#51

4-Methyl-2-Pentanone

Concen: 0.515 ug/l

RT: 7.903 min Scan# 2041

Delta R.T. 0.109 min

Lab File: VU045710.D

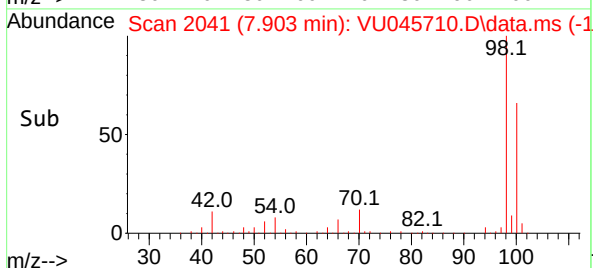
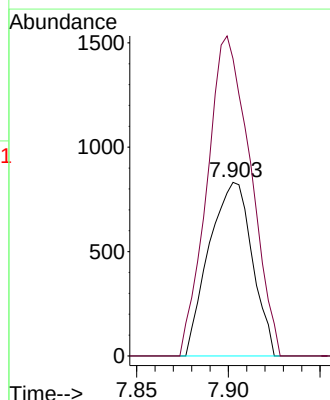
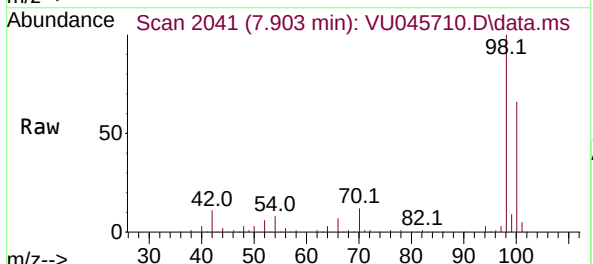
Acq: 11 Nov 2021 00:36

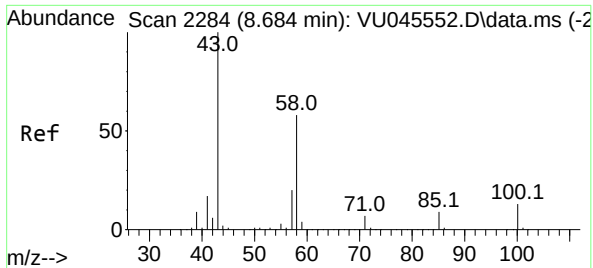
Tgt Ion: 43 Resp: 1362

Ion Ratio Lower Upper

43 100

58 184.4 33.8 50.8#

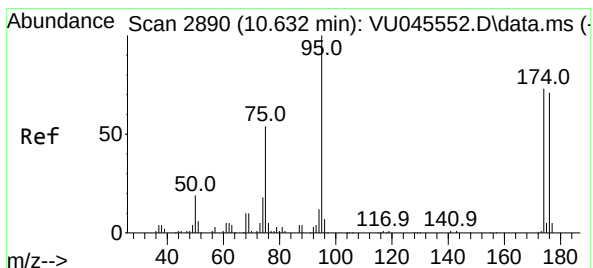
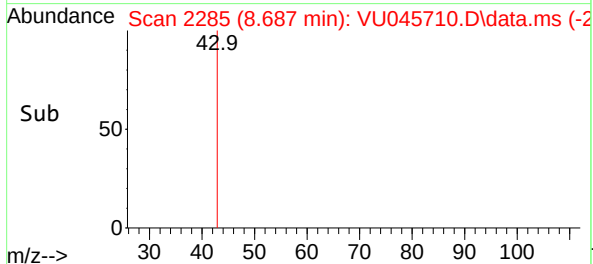
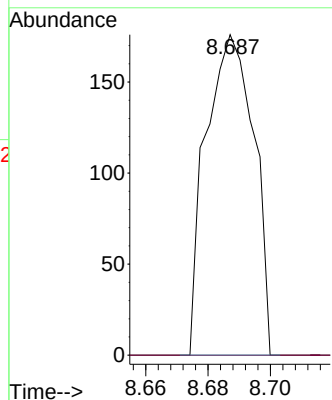
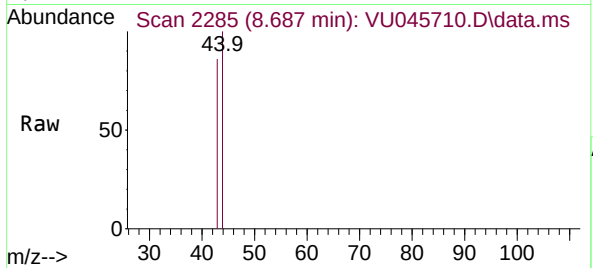




#59  
2-Hexanone  
Concen: 7.614 ug/l  
RT: 8.687 min Scan# 2188  
Delta R.T. 0.003 min  
Lab File: VU045710.D  
Acq: 11 Nov 2021 00:36

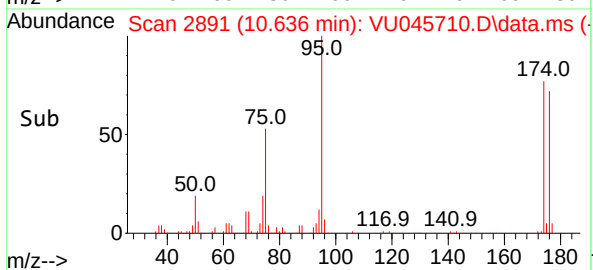
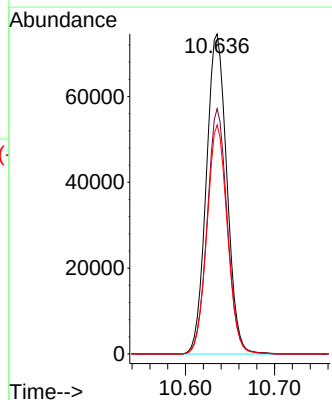
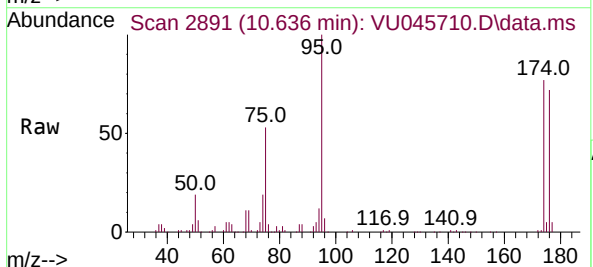
Instrument :  
MSVOA\_U  
ClientSampleId :

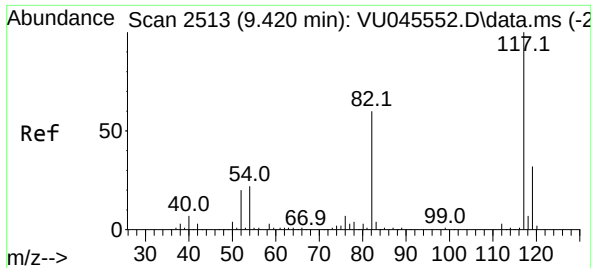
Tgt Ion: 43 Resp: 188  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.5 88.6#



#62  
4-Bromofluorobenzene  
Concen: 51.243 ug/l  
RT: 10.636 min Scan# 2891  
Delta R.T. 0.003 min  
Lab File: VU045710.D  
Acq: 11 Nov 2021 00:36

Tgt Ion: 95 Resp: 119448  
Ion Ratio Lower Upper  
95 100  
174 74.9 0.0 141.8  
176 70.8 0.0 138.2

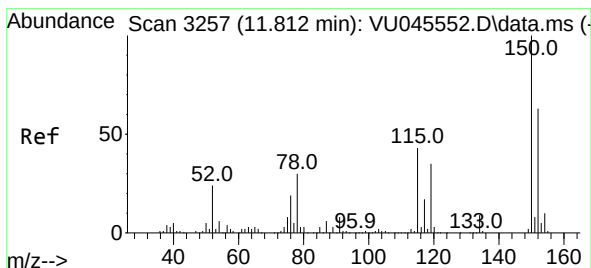
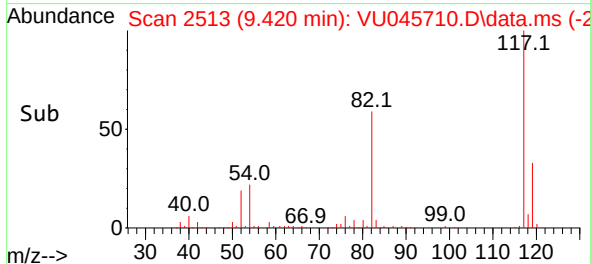
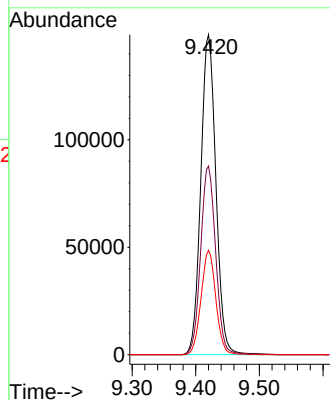
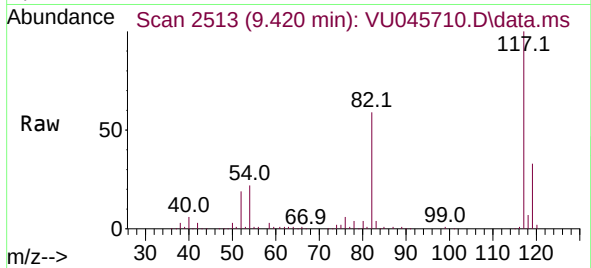




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.420 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU045710.D  
Acq: 11 Nov 2021 00:36

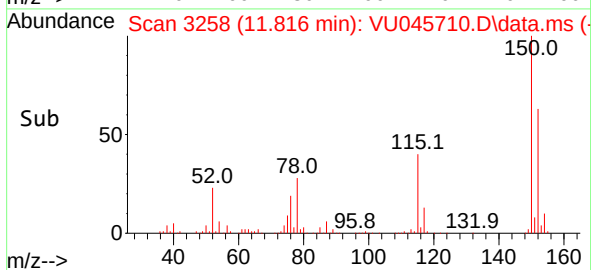
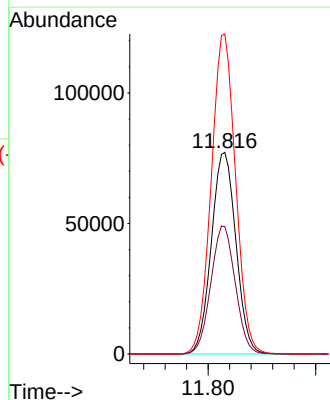
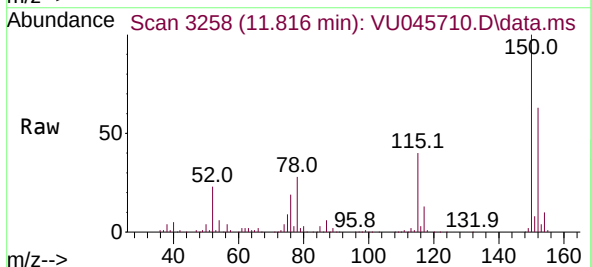
Instrument :  
MSVOA\_U  
ClientSampleId :

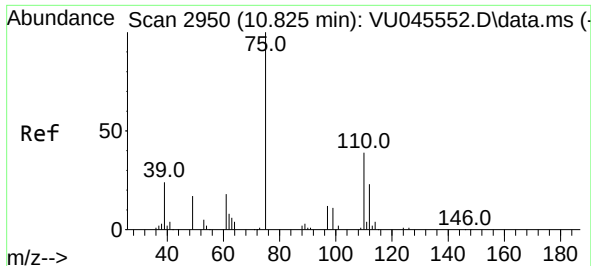
Tgt Ion:117 Resp: 246016  
Ion Ratio Lower Upper  
117 100  
82 58.9 47.8 71.8  
119 32.6 25.8 38.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.816 min Scan# 3258  
Delta R.T. 0.003 min  
Lab File: VU045710.D  
Acq: 11 Nov 2021 00:36

Tgt Ion:152 Resp: 122654  
Ion Ratio Lower Upper  
152 100  
115 63.0 42.7 128.1  
150 157.2 0.0 346.8

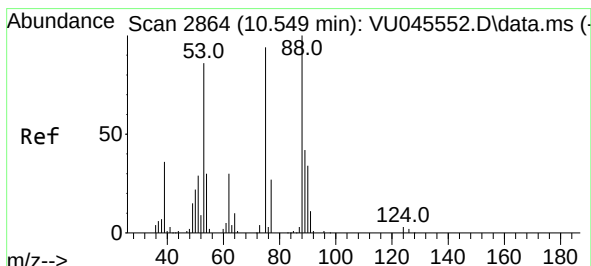
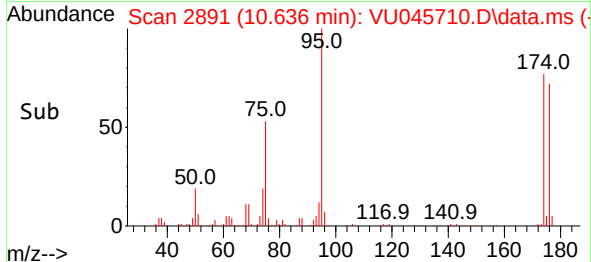
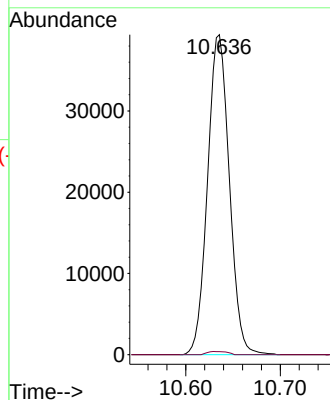
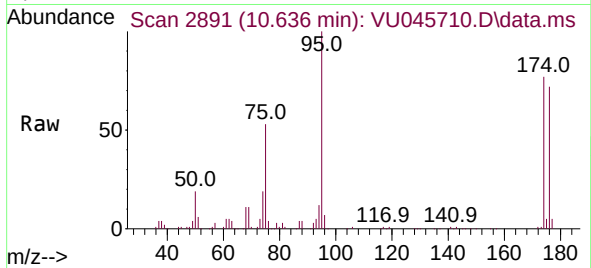




#76  
1,2,3-Trichloropropane  
Concen: 16.951 ug/l  
RT: 10.636 min Scan# 2891  
Delta R.T. -0.190 min  
Lab File: VU045710.D  
Acq: 11 Nov 2021 00:36

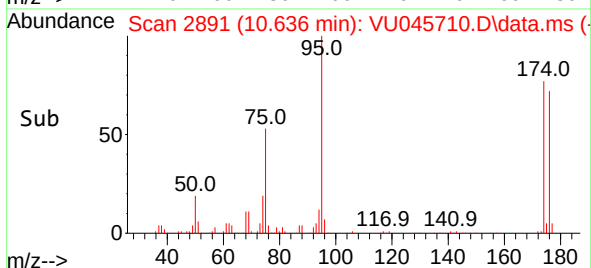
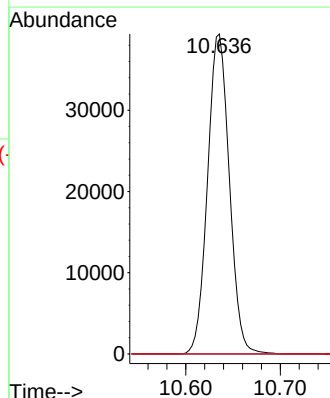
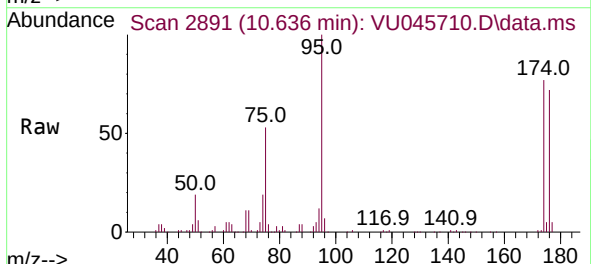
Instrument :  
MSVOA\_U  
ClientSampleId :

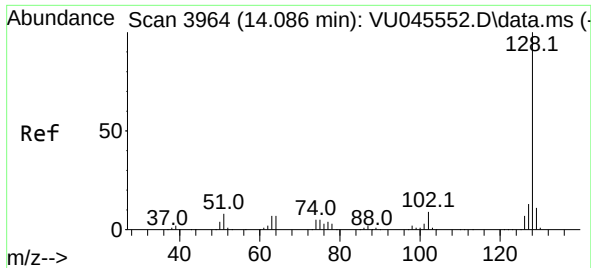
Tgt Ion: 75 Resp: 63052  
Ion Ratio Lower Upper  
75 100  
77 0.9 17.1 51.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 55.201 ug/l  
RT: 10.636 min Scan# 2891  
Delta R.T. 0.087 min  
Lab File: VU045710.D  
Acq: 11 Nov 2021 00:36

Tgt Ion: 75 Resp: 63052  
Ion Ratio Lower Upper  
75 100  
53 0.0 76.2 114.4#  
89 0.0 34.0 51.0#





#95

Naphthalene

Concen: 1.099 ug/l

RT: 14.095 min Scan# 3967

Delta R.T. 0.009 min

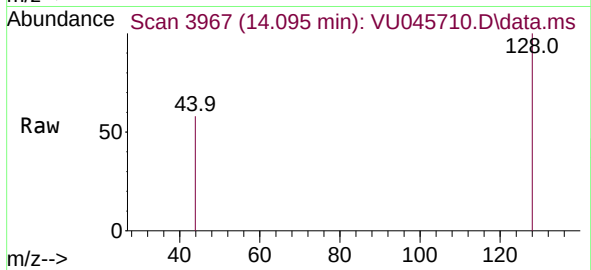
Lab File: VU045710.D

Acq: 11 Nov 2021 00:36

Instrument :

MSVOA\_U

ClientSampleId :



Tgt Ion:128 Resp: 710

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.6 13.0#

