MAWST File Generator (MFG)

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MASTER

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by

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ABSTRACT

The software program MAWST was developed as a tool to deal with common materials accounting problems. The key to successful usage of this program is in the generation of input files for measurement values, measurement errors, and measurement methods. The program MFG was developed as an aid to creating input files for MAWST. MFG contains three commonly used measurements—nondestructive assay, $(G-T)*C$, and $V*C$ —and a GENERIC measurement as models for data entry for the measurement value file. Sufficient data is collected from the user to produce the measurement error and measurement method files. This report is written as a tutorial presenting and explaining all the options available in MFG by giving examples of execution and the resulting screens that MFG produces.

The program MFG was developed as an aid to creating input files for the materials accounting software program MAWST.¹ This report assumes that the user is familiar with the MAWST concepts of error propagation and the forms in which a material balance item is coded into the MAWST input files. MFG contains three commonly used measurements—NDA, $(G-T)*C$, and $V*C$ —and a GENERIC measurement. Therefore, for example, if a materials control and accounting plan involves 50 NDA inventory measurements, the user can input all 50 NDA measurements with minimal data entry.

This document is written as a tutorial presenting and explaining all the options available in MFG by giving examples of execution and the resulting screens that MFG produces. The program runs on a personal computer (IBM-type) and is executed by typing MFG followed by a CARRIAGE RETURN (CR) or ENTER. The reader should execute MFG and follow the examples in the tutorial.

The first screen presented to the user is the MAIN MENU shown on Screen 1. (All screens can be found at the end of the text starting on page 6.) Three options are available to the user. Note that the only keys that are allowed for this screen are 0, 1,

and 2: the valid options. Accept the chosen option 1 as shown on Screen 2 by pressing the F10 key. (Before generating MAWST input files, you must enter the names of the files in MFG.)

The SPECIFY FILE NAMES menu is shown on Screen 3. Notice that the help line at the bottom of Screen 3 has changed to indicate that the UP and DOWN arrow keys are to be used for changing fields. In addition, each field of MFG can be fully edited by using the LEFT and RIGHT arrow keys and the HOME and END keys to move about in the field and the BACKSPACE and DELETE keys to remove characters from the field. Toggling the INSERT key changes input from overstrike to insert mode and back again. Take some time and try the editing features, then specify the three file names as shown on Screen 4 (or any other valid file names) and press the F10 key. MFG will test the local disk space for files with the given names. If they exist, MFG will open them in "APPEND" mode and add results from this execution of MFG to the files. If the files do not exist, MFG will create and open new empty files to hold the results. MFG returns to the MAIN MENU shown on Screen 5.

Choose option 2 as shown on Screen 6 and press the F10 key. The ITEM CHOICE MENU in Screen 7 shows the four options described above. Choose option 1 - GENERIC as shown on Screen 8 and press the F10 key. This option allows you to input a MAWST item in the general form described in Section 6.3 of Ref. 1. We highly recommend that you read this section before attempting to use the GENERIC option. For this tutorial we choose an item with the mathematical form of

$$(G - T) * C .$$

This choice happens to be the same as option 3 of the ITEM CHOICE MENU. For the option 1 input, the user will have to fill in almost all of the fields. In option 3, the encoded version of this mathematical form, many of the fields will be filled by the program and they cannot be changed.

Screen 9 shows the first line for input. Fill in the fields as shown. Any character can be entered in the UPA field. Notice that the SIGN2 field is filled with a blank and a 1. The only character that can be added to this field is a leading sign (-+) or a blank so that ending inventory and output transfer items can be produced. The TYPE2 field is numeric and specifies the number of Q1 items. Only integers 0 to 9 are acceptable. The TYPE2 field should not be left blank. Put the value 2 into the TYPE2 field so that a two-Q1 item is expected; the first Q1 will be the term (G-T) and the second Q1 will be the term C. The TID2 field is character and should represent the unique identity of the transaction. Note how the UP/DOWN arrows move the cursor from field to field. Any changes to these fields must be made before pressing the F10 key. Pressing the F10 key always means an acceptance that the data has been properly and completely entered and that MFG can proceed to the next step. When the fields are correct as shown on Screen 10, press the F10 key.

Screen 11 shows the next requested line for input for the first Q1 term. Note that the UP/DOWN arrows only allow you to cycle through the newly requested fields. The Q1 and POWER2 fields are real numbers and the NQ field is integer. The NQ field

should not be left blank. Fill in the fields as shown on Screen 12. Notice that the POWER2 field is initialized to 1.0. You can change or accept this field. The value 2 is input to the NQ field so that a two-C1 item is expected. The first C1 will be the term G and the second C1 will be T. When the fields are correct, press the F10 key.

Screen 13 shows the start of the request for the first C1. The SIGN1 field is like the SIGN2 field in that it can only contain a +1, a -1, or a 1 preceded by a blank. The TYPE1 field is like the TYPE2 field and should not be left blank. Fill in the fields as shown on Screen 14. A 1 is shown in the TYPE1 field because the first C1 contains only one term, G. The SIGN1 field is left as a blank and a 1 because the sign of G is positive. The UP/DOWN arrows can only cycle through these two fields. When the fields are correct, press the F10 key.

Screen 15 shows the remaining fields for the first C1. Notice that the field POWER1 has been initialized to 1.0. Again the UP/DOWN arrows only cycle through these new fields. The fields M, POWER1, RANDOM, and SYSTEMATIC are real numbers; the MODEL field is integer; and all other fields are character. When the fields are correct as shown on Screen 16, press the F10 key.

Screen 17 shows the start of the request for the second C1. Screen 18 shows the SIGN1 field changed to -1 because the sign of T is negative. The TYPE1 field is given a 1 because the second C1 term contains only one term, T. When the fields are correct, press the F10 key.

Screen 19 and Screen 20 show the remaining fields for the second C1. The screens will toggle from 19 to 20 as the UP or DOWN arrow keys are used to move from field to field. The F10 key is not used to toggle from screen to screen and should not be pressed until all requested data have been entered. Again the POWER1 field is initialized to 1.0. When the fields are correct as shown on Screens 21 and 22, press the F10 key.

Screen 23 shows the fields for the second Q1 term corresponding to the term C in our equation. Screen 24 shows a 1 in the NQ field for this Q1 because there is only one C1 term for this Q1, namely C. When the fields are correct, press the F10 key.

Screen 25 continues with the definition of the C1 term for this second Q1. Screen 26 shows the SIGN1 field is left as a blank 1 for a positive C and TYPE1 is set to 1 because C is the only term in C1. When the fields are correct, press the F10 key.

Screen 27 shows the remaining fields for this C1. This time all the fields appear on one screen. When using the GENERIC option, know the number of fields that will be appearing and refrain from pressing the F10 key before all fields (some may be on another screen) have had entries made. When the fields are correct as shown on Screen 28, press the F10 key.

Screen 29 shows the final entry asking for the number of items of the form $(G-T)*C$ that were input. Enter a 5 as shown on Screen 30 and press the F10 key.

At this point MFG will write five descriptions of the item to the file value.001. A suffix, incremented for each item, will be appended to the TID2 fields so that they are unique (not duplicate) when processed by MAWST. Also a suffix will be appended to the TSTP fields that will also be incremented for each term so that the time stamps are unique. The error.dat file will be inspected to determine if it contains entries for each

pair of MID - REC fields that were entered. When a pair is not found in the file, it is appended to the file. Also the method.dat file is inspected for MID - METHOD field pairs and is updated if necessary.

MFG now returns to the MAIN MENU as shown in Screen 31. Again select option 2 as shown on Screen 32 to GENERATE FILES and press the F10 key. Screen 33 shows the ITEM CHOICE MENU. Choose option 2 this time, the M NDA measurement option as shown on Screen 34.

Screen 35 shows all the fields for this option. Notice that the fields for TYPE2, NQ, POWER2, SIGN1, TYPE1, and POWER1 are initialized and cannot be changed because these are fixed by the chosen form to code a single mass item with one Q1 item having one C1 item. The UP/DOWN arrows can now be used to toggle through all the fields that can be changed because the definition of the encoded form of the NDA mass is fixed. When the fields are correct as shown on Screen 36, press the F10 key. Again the items are appended to the file value.001, and the error.dat and method.dat files are updated if necessary.

The user is returned back to the MAIN MENU of Screen 37. Choose option 2 - GENERATE FILES as shown on Screen 38. Pressing the F10 key takes us to Screen 39 showing the ITEM CHOICE MENU. Enter a 3 as shown on Screen 40 and press F10 to get to the (G-T)*C MEASUREMENT MENU.

Screens 41 and 42 show the fields for this option. The screens will toggle when the UP and DOWN arrows move from a field on Screen 41 to a field on Screen 42. These fields are exactly like the fields that were encountered during the GENERIC option of entering the form (G-T)*C. However, the fields TYPE2, NQ, POWER2 and all the SIGN1, TYPE1, and POWER1 fields now have fixed values that cannot be changed as shown on Screens 43 and 44. When the fields are correct, press the F10 key. Again the files are updated.

Screen 45 shows the return to the MAIN MENU. Choose option 2 - GENERATE FILES as shown on Screen 46 and press the F10 key. This gives the ITEM CHOICE MENU on Screen 47. Choose option 4 - V*C as shown on Screen 48 and press F10 to get the V*C MEASUREMENT MENU Screens 49 and 50. This form is produced for a single Q1 term (TYPE2 = 1) with one C1 term (NQ = 1) and two measurements in the C1 term (TYPE1 = 2). Again, the fields TYPE2, NQ, POWER2, SIGN1, TYPE1, and POWER1 now have fixed values that cannot be changed. When the fields are correct as shown on Screens 51 and 52, press the F10 key. Again the files are updated.

Screen 53 shows the return to MAIN MENU where the selection of option 0 on Screen 54 exits the MFG program.

This completes the tutorial; all options have been exercised. Use the GENERIC option to produce MAWST items that have many forms. You are limited, when using option 1 - GENERIC, to the following maximum values:

TYPE2	5,
NQ	6, and
TYPE1	7.

In addition, there are maximum values for the number of different MIDs in any one METHOD entry and the total number of fields to be indexed that are allowed in a GENERIC item:

NOMETH 21 and
NOINDEX 200.

Now that the tutorial has been run with or without any errors, it will be helpful to know that the ESC key can be used to abort out of any of the options of MFG.

REFERENCE

1. R. R. Picard and J. F. Hafer, "MAWST: Materials Accounting with Sequential Testing, Version 2.0," Los Alamos National Laboratory, Safeguards Systems Group report N-4/91-633 (June 1991).

MAWST FILE GENERATOR

MAIN MENU

- 0 - EXIT
- 1 - SPECIFY FILE NAMES
- 2 - GENERATE FILES

ENTER OPTION:

Press F10 to return

Screen 1.

MAWST FILE GENERATOR

MAIN MENU

- 0 - EXIT
- 1 - SPECIFY FILE NAMES
- 2 - GENERATE FILES

ENTER OPTION: 1

Press F10 to return

Screen 2.

MAWST FILE GENERATOR

SPECIFY FILES MENU

VALUE FILE NAME:

ERROR FILE NAME:

METHOD FILE NAME:

UP/DOWN ARROW to change fields. F10 to return

Screen 3.

MAWST FILE GENERATOR

SPECIFY FILES MENU

VALUE FILE NAME: value.001
ERROR FILE NAME: error.dat
METHOD FILE NAME: method.dat

UP/DOWN ARROW to change fields. F10 to return

Screen 4.

MAWST FILE GENERATOR

MAIN MENU

- 0 - EXIT
- 1 - SPECIFY FILE NAMES
- 2 - GENERATE FILES

ENTER OPTION:

Press F10 to return

Screen 5.

MAWST FILE GENERATOR

MAIN MENU

- 0 - EXIT
- 1 - SPECIFY FILE NAMES
- 2 - GENERATE FILES

ENTER OPTION: 2

Press F10 to return

Screen 6.

MAWST FILE GENERATOR

ITEM CHOICE MENU

- 0 - EXIT
- 1 - GENERIC
- 2 - M NDA
- 3 - (G-T)*C
- 4 - V*C

ENTER OPTION:

Press F10 to return

Screen 7.

MAWST FILE GENERATOR

ITEM CHOICE MENU

- 0 - EXIT
- 1 - GENERIC
- 2 - M NDA
- 3 - (G-T)*C
- 4 - V*C

ENTER OPTION: 1

Press F10 to return

Screen 8.

MAWST FILE GENERATOR

GENERIC MEASUREMENT MENU

UPA SIGN2 1 TYPE2 TID2

UP/DOWN ARROW to change fields. F10 to return

Screen 9.

MAWST FILE GENERATOR

GENERIC MEASUREMENT MENU

UPA upa SIGN2 1 TYPE2 2 TID2 tid2-1

UP/DOWN ARROW to change fields. F10 to return

Screen 10.

MAWST FILE GENERATOR

GENERIC MEASUREMENT MENU

UPA upa SIGN2 1 TYPE2 2 TID2 tid2-1

Q NQ POWER2 1.0

UP/DOWN ARROW to change fields. F10 to return

Screen 11.

MAWST FILE GENERATOR

GENERIC MEASUREMENT MENU

UPA upa SIGN2 1 TYPE2 2 TID2 tid2-1

Q 1.000 NQ 2 POWER2 1.0

UP/DOWN ARROW to change fields. F10 to return

Screen 12.

MAWST FILE GENERATOR

GENERIC MEASUREMENT MENU

UPA upa SIGN2 1 TYPE2 2 TID2 tid2-1
Q 1.000 MQ 2 POWER2 1.0
SIGN1 1 TYPE1

UP/DOWN ARROW to change fields. F10 to return

Screen 13.

MAWST FILE GENERATOR

GENERIC MEASUREMENT MENU

UPA upa SIGN2 1 TYPE2 2 TID2 tid2-1
Q 1.000 MQ 2 POWER2 1.0
SIGN1 1 TYPE1 1

UP/DOWN ARROW to change fields. F10 to return

Screen 14.

MAWST FILE GENERATOR

GENERIC MEASUREMENT MENU

UPA upa SIGN2 1 TYPE2 2 TID2 tid2-1
Q 1.000 MQ 2 POWER2 1.0
SIGN1 1 TYPE1 1
M MID REC
TSTP POWER1 1.0
MODEL RANDOM SYSTEMATIC
METHOD

UP/DOWN ARROW to change fields. F10 to return

Screen 15.

MAWST FILE GENERATOR

GENERIC MEASUREMENT MENU

UPA upa SIGN2 1 TYPE2 2 TID2 tid2-1
 Q 1.000 NQ 2 POWER2 1.0
 SIGN1 1 TYPE1 1
 M 1.234 MID midg REC recg
 TSTP tstpg POWER1 1.0
 MODEL 1 RANDOM 0.123 SYSTEMATIC 0.234
 METHOD meth1

UP/DOWN ARROW to change fields. F10 to return

Screen 16.

MAWST FILE GENERATOR

GENERIC MEASUREMENT MENU

UPA upa SIGN2 1 TYPE2 2 TID2 tid2-1
 Q 1.000 NQ 2 POWER2 1.0
 SIGN1 1 TYPE1 1
 M 1.234 MID midg REC recg
 TSTP tstpg POWER1 1.0
 MODEL 1 RANDOM 0.123 SYSTEMATIC 0.234
 METHOD meth1
 SIGN1 1 TYPE1

UP/DOWN ARROW to change fields. F10 to return

Screen 17.

MAWST FILE GENERATOR

GENERIC MEASUREMENT MENU

UPA upa SIGN2 1 TYPE2 2 TID2 tid2-1
 Q 1.000 NQ 2 POWER2 1.0
 SIGN1 1 TYPE1 1
 M 1.234 MID midg REC recg
 TSTP tstpg POWER1 1.0
 MODEL 1 RANDOM 0.123 SYSTEMATIC 0.234
 METHOD meth1
 SIGN1 -1 TYPE1 1

UP/DOWN ARROW to change fields. F10 to return

Screen 18.

MAWST FILE GENERATOR

GENERIC MEASUREMENT MENU

UPA upa SIGN2 1 TYPE2 2 TID2 tid2-1
 Q 1.000 NQ 2 POWER2 1.0
 SIGN1 1 TYPE1 1
 M 1.234 MID midg REC recg
 TSTP tstpg POWER1 1.0
 MODEL 1 RANDOM 0.123 SYSTEMATIC 0.234
 METHOD meth1
 SIGN1 -1 TYPE1 1
 M MID REC

UP/DOWN ARROW to change fields. F10 to return

Screen 19.

MAWST FILE GENERATOR

TSTP POWER1 1.0

MODEL RANDOM SYSTEMATIC
 METHOD

UP/DOWN ARROW to change fields. F10 to return

Screen 20.

MAWST FILE GENERATOR

GENERIC MEASUREMENT MENU

UPA upa SIGN2 1 TYPE2 2 TID2 tid2-1
 Q 1.000 NQ 2 POWER2 1.0
 SIGN1 1 TYPE1 1
 M 1.234 MID midg REC recg
 TSTP tstpg POWER1 1.0
 MODEL 1 RANDOM 0.123 SYSTEMATIC 0.234
 METHOD meth1
 SIGN1 -1 TYPE1 1
 M 0.234 MID midt REC recc

UP/DOWN ARROW to change fields. F10 to return

Screen 21.

MAWST FILE GENERATOR

TSTP tstpt POWER1 1.0
 MODEL 1 RANDOM 0.123 SYSTEMATIC 0.234
 METHOD meth1

UP/DOWN ARROW to change fields. F10 to return

Screen 22.

MAWST FILE GENERATOR

TSTP tstpt POWER1 1.0
 MODEL 1 RANDOM 0.123 SYSTEMATIC 0.234
 METHOD meth1
 Q NQ POWER2 1.0

UP/DOWN ARROW to change fields. F10 to return

Screen 23.

MAWST FILE GENERATOR

TSTP tstpt POWER1 1.0
 MODEL 1 RANDOM 0.123 SYSTEMATIC 0.234
 METHOD meth1
 Q 0.22 NQ 1 POWER2 1.0

UP/DOWN ARROW to change fields. F10 to return

Screen 24.

MAWST FILE GENERATOR

TSTP tstpt POWER1 1.0
 MODEL 1 RANDOM 0.123 SYSTEMATIC 0.234
 METHOD meth1
 Q 0.22 NQ 1 POWER2 1.0
 SIGN1 1 TYPE1

UP/DOWN ARROW to change fields. F10 to return

Screen 25.

MAWST FILE GENERATOR

TSTP tstpt POWER1 1.0
 MODEL 1 RANDOM 0.123 SYSTEMATIC 0.234
 METHOD meth1
 Q 0.22 NQ 1 POWER2 1.0
 SIGN1 1 TYPE1 1

UP/DOWN ARROW to change fields. F10 to return

Screen 26.

MAWST FILE GENERATOR

TSTP tstpt POWER1 1.0
 MODEL 1 RANDOM 0.123 SYSTEMATIC 0.234
 METHOD meth1
 Q 0.22 NQ 1 POWER2 1.0
 SIGN1 1 TYPE1 1
 M MID REC
 TSTP POWER1 1.0
 MODEL RANDOM SYSTEMATIC
 METHOD

UP/DOWN ARROW to change fields. F10 to return

Screen 27.

MAWST FILE GENERATOR

```

TSTP tstpt          POWER1 1.0
MODEL 1 RANDOM 0.123    SYSTEMATIC 0.234
METHOD meth1
Q 0.22          NQ 1  POWER2 1.0
SIGN1 1 TYPE1 1
M 0.22          MID midc          REC recc
TSTP tstpc          POWER1 1.0
MODEL 2 RANDOM 0.100    SYSTEMATIC 0.200
METHOD meth2
  
```

UP/DOWN ARROW to change fields. F10 to return

Screen 28.

MAWST FILE GENERATOR

```

TSTP tstpt          POWER1 1.0
MODEL 1 RANDOM 0.123    SYSTEMATIC 0.234
METHOD meth1
Q 0.22          NQ 1  POWER2 1.0
SIGN1 1 TYPE1 1
M 0.22          MID midc          REC recc
TSTP tstpc          POWER1 1.0
MODEL 2 RANDOM 0.100    SYSTEMATIC 0.200
METHOD meth2
  
```

NO OF ITEMS

UP/DOWN ARROW to change fields. F10 to return

Screen 29.

MAWST FILE GENERATOR

```

TSTP tstpt          POWER1 1.0
MODEL 1 RANDOM 0.123    SYSTEMATIC 0.234
METHOD meth1
Q 0.22          NQ 1  POWER2 1.0
SIGN1 1 TYPE1 1
M 0.22          MID midc          REC recc
TSTP tstpc          POWER1 1.0
MODEL 2 RANDOM 0.100    SYSTEMATIC 0.200
METHOD meth2
  
```

NO OF ITEMS 5

UP/DOWN ARROW to change fields. F10 to return

Screen 30.

MAWST FILE GENERATOR

MAIN MENU

- 0 - EXIT
- 1 - SPECIFY FILE NAMES
- 2 - GENERATE FILES

ENTER OPTION:

Press F10 to return

Screen 31.

MAWST FILE GENERATOR

MAIN MENU

- 0 - EXIT
- 1 - SPECIFY FILE NAMES
- 2 - GENERATE FILES

ENTER OPTION: 2

Press F10 to return

Screen 32.

MAWST FILE GENERATOR

ITEM CHOICE MENU

- 0 - EXIT
- 1 - GENERIC
- 2 - M NDA
- 3 - (G-T)*C
- 4 - V*C

ENTER OPTION:

Press F10 to return

Screen 33.

MAWST FILE GENERATOR

ITEM CHOICE MENU

- 0 - EXIT
- 1 - GENERIC
- 2 - M NDA
- 3 - (G-T)*C
- 4 - V+C

ENTER OPTION: 2

Press F10 to return

Screen 34.

MAWST FILE GENERATOR

M NDA MEASUREMENT MENU

UPA SIGN2 1 TYPE2 1 TID2

M NO 1 POWER2 1.0

SIGN1 1 TYPE1 1

M MID REC

TSTP 1.0

MODEL RANDOM

METHOD

NO OF ITEMS

UP/DOWN ARROW to change fields. F10 to return

Screen 35.

MAWST FILE GENERATOR

M NDA MEASUREMENT MENU

UPA upa SIGN2 1 TYPE2 1 TID2 tid2-2

M 1.000 NO 1 POWER2 1.0

SIGN1 1 TYPE1 1

M 1.000 MID midm REC recm

TSTP tstpm POWER1 1.0

MODEL 1 RANDOM 0.123

METHOD meth1

NO OF ITEMS 7

UP/DOWN ARROW to change fields. F10 to return

Screen 36.

MAWST FILE GENERATOR

MAIN MENU

- 0 - EXIT
- 1 - SPECIFY FILE NAMES
- 2 - GENERATE FILES

ENTER OPTION:

Press F10 to return

Screen 37.

MAWST FILE GENERATOR

MAIN MENU

- 0 - EXIT
- 1 - SPECIFY FILE NAMES
- 2 - GENERATE FILES

ENTER OPTION: 2

Press F10 to return

Screen 38.

MAWST FILE GENERATOR

ITEM CHOICE MENU

- 0 - EXIT
- 1 - GENERIC
- 2 - M NDA
- 3 - (G-T)*C
- 4 - V*C

ENTER OPTION:

Press F10 to return

Screen 39.

MAWST FILE GENERATOR

ITEM CHOICE MENU

- 0 - EXIT
- 1 - GENERIC
- 2 - M NDA
- 3 - (G-T)*C
- 4 - V*C

ENTER OPTION: 3

Press F10 to return

Screen 40.

MAWST FILE GENERATOR

(G - T) * C MEASUREMENT MENU

UPA SIGN2 1 TYPE2 2 TID2
G-T NQ 2 POWER2 1.0
SIGN1 1 TYPE1 1
G MID REC
TSTP POWER1 1.0
MODEL RANDOM SYSTEMATIC
METHOD
SIGN1 -1 TYPE1 1
T MID REC

UP/DOWN ARROW to change fields. F10 to return

Screen 41.

MAWST FILE GENERATOR

TSTP POWER1 1.0
MODEL RANDOM SYSTEMATIC
METHOD
C NQ 1 POWER2 1.0
SIGN1 1 TYPE1 1
C MID REC
TSTP POWER1 1.0
MODEL RANDOM SYSTEMATIC
METHOD
NO OF ITEMS

UP/DOWN ARROW to change fields. F10 to return

Screen 42.

MAWST FILE GENERATOR

(G - T) * C MEASUREMENT MENU

UPA upa SIGN2 1 TYPE2 2 TID2 tid2-3
 G-T 1.000 NQ 2 POWER2 1.0
 SIGN1 1 TYPE1 1
 G 1.234 MID midg REC recg
 TSTP tstpg POWER1 1.0
 MODEL 1 RANDOM 0.123 SYSTEMATIC 0.234
 METHOD meth1
 SIGN1 -1 TYPE1 1
 T 0.234 MID midt REC rect
 UP/DOWN ARROW to change fields. F10 to return

Screen 43.

MAWST FILE GENERATOR

TSTP tstpt POWER1 1.0
 MODEL 1 RANDOM 0.123 SYSTEMATIC 0.234
 METHOD meth1
 C 0.22 NQ 1 POWER2 1.0
 SIGN1 1 TYPE1 1
 C 0.22 MID midc REC recg
 TSTP tstpc POWER1 1.0
 MODEL 2 RANDOM 0.100 SYSTEMATIC 0.200
 METHOD meth2
 NO OF ITEMS 3
 UP/DOWN ARROW to change fields. F10 to return

Screen 44.

MAWST FILE GENERATOR

MAIN MENU

- 0 - EXIT
- 1 - SPECIFY FILE NAMES
- 2 - GENERATE FILES

ENTER OPTION:

Press F10 to return

Screen 45.

MAWST FILE GENERATOR

MAIN MENU

- 0 - EXIT
- 1 - SPECIFY FILE NAMES
- 2 - GENERATE FILES

ENTER OPTION: 2

Press F10 to return

Screen 46.

MAWST FILE GENERATOR

ITEM CHOICE MENU

- 0 - EXIT
- 1 - GENERIC
- 2 - M NDA
- 3 - (G-T)*C
- 4 - V*C

ENTER OPTION:

Press F10 to return

Screen 47.

MAWST FILE GENERATOR

ITEM CHOICE MENU

- 0 - EXIT
- 1 - GENERIC
- 2 - M NDA
- 3 - (G-T)*C
- 4 - V*C

ENTER OPTION: 4

Press F10 to return

Screen 48.

MAWST FILE GENERATOR

V * C MEASUREMENT MENU

UPA SIGN2 1 TYPE2 1 TID2
V*C NQ 1 POWER2 1.0
SIGN1 1 TYPE1 2
V MID REC
TSTP POWER1 1.0
MODEL RANDOM SYSTEMATIC
METHOD
C MID REC
TSTP POWER1 1.0

UP/DOWN ARROW to change fields. F10 to return

Screen 49.

MAWST FILE GENERATOR

MODEL RANDOM SYSTEMATIC
METHOD
NO OF ITEMS

UP/DOWN ARROW to change fields. F10 to return

Screen 50.

MAWST FILE GENERATOR

V * C MEASUREMENT MENU

UPA upa SIGN2 1 TYPE2 1 TID2 tid2-4
V*C 5.000 NQ 1 POWER2 1.0
SIGN1 1 TYPE1 2
V 25.000 MID midv REC recv
TSTP tstpv POWER1 1.0
MODEL 2 RANDOM 0.300 SYSTEMATIC 0.500
METHOD meth3
C 0.200 MID midc REC recc
TSTP tstpc POWER1 1.0

UP/DOWN ARROW to change fields. F10 to return

Screen 51.

MAWST FILE GENERATOR

MODEL 2 RANDOM 0.100

SYSTEMATIC 0.200

METHOD meth2

NO OF ITEMS 9

UP/DOWN ARROW to change fields. F10 to return

Screen 52.

MAWST FILE GENERATOR

MAIN MENU

- 0 - EXIT
- 1 - SPECIFY FILE NAMES
- 2 - GENERATE FILES

ENTER OPTION:

Press F10 to return

Screen 53.

MAWST FILE GENERATOR

MAIN MENU

- 0 - EXIT
- 1 - SPECIFY FILE NAMES
- 2 - GENERATE FILES

ENTER OPTION: 0

Press F10 to return

Screen 54.

DATE

FILMED

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END