

```

*;
*;
*   ods graphics on;
*;
* MANOVA Model 1: X9 X10 = X14;
*;
*options ls=80 ps=50 nodate pageno=1;
*;
* Input HATCO ;
*;
ods pdf file="\Mac\Home\Downloads\HATCO_MANOVA_X9_X10_By_X14.pdf";
*;
Title 'HATCO MANOVA Analysis of Usage and Satisfaction Levels across
Buying Situations';
*;
Data HATCO;
Infile '"\Mac\Home\Downloads\HATCO_X1-X14_Tabs.txt"' DLM = '09'X
TRUNCOVER;
Input X1 X2 X3 X4 X5 X6 X7 X8 X9 X10 X11 X12 X13 X14;
*;
Data HATCO;
    Set HATCO (Keep = X9 X10 X14);
    Label X9 = 'X9 - Usage Level'
          X10 = 'X10 - Satisfaction Level'
          X14 = 'X14 - Type of buying situation';
*;
Proc Print Data = HATCO;
*;
* Exploratory Data Analysis - Means ;
*;
Proc Means Data = HATCO;
    Var X9 X10;
*;
Proc Sort Data = HATCO;
    By X14;
*;
Proc Means Data = HATCO;
    Var X9 X10;
    By X14;
    ID X14;
*;
* Exploratory Data Analysis - Univariate ;
*;
Proc Univariate Data = HATCO Normal Plot;
    Var X9 X10;
*;
Proc Sort Data = HATCO;
    By X14;
*;
Proc Univariate Data = HATCO Normal Plot;
    Var X9 X10;
    By X14;
    ID X14;
*;

```

```
* GLM MANOVA Analysis ;
* ;
Proc GLM Data = HATCO;
  Class X14;
  Model X9 X10 = X14;
  Means X14 / Scheffe Tukey LSD SNK Duncan;
  Means X14 / Hovtest = Levene Hovtest = bf Hovtest = Bartlett;
  Means X14;
  Manova H = X14 / MStat = Exact;
* ;
* ;
Run;
Quit;
* ;
ods pdf close;
```