SAS Output Page 1 of 2

The SAS System

The Mixed Procedure

Model Information				
Data Set	WORK.FIRE_ANT_KILLER			
Dependent Variable	kill_count			
Covariance Structure	Variance Components			
Estimation Method	Type 3			
Residual Variance Method	Factor			
Fixed Effects SE Method	Model-Based			
Degrees of Freedom Method	Containment			

Class Level Information				
Class	Levels	Values		
chemical	4	1234		
location	5	12345		

Dimensions			
Covariance Parameters	3		
Columns in X	5		
Columns in Z	25		
Subjects	1		
Max Obs Per Subject	40		

Number of Observations		
Number of Observations Read	40	
Number of Observations Used	40	
Number of Observations Not Used	0	

Type 3 Analysis of Variance								
Source	DF	Sum of Squares	Mean Square	Expected Mean Square	Error Term	Error DF	F Value	Pr > F
chemical	3	180.132750	60.044250	Var(Residual) + 2 Var (chemical*location) + Q(chemical)	MS (chemical*location)	12	44.59	<.0001
location	4	3.811500	0.952875	Var(Residual) + 2 Var (chemical*location) + 8 Var (location)	MS (chemical*location)	12	0.71	0.6020
chemical*location	12	16.158500	1.346542	Var(Residual) + 2 Var (chemical*location)	MS(Residual)	20	3.89	0.0037
Residual	20	6.925000	0.346250	Var(Residual)				

Covariance Parameter Estimates			
Cov Parm	Estimate		
location	-0.04921		
chemical*location	0.5001		

SAS Output Page 2 of 2

Covariance Parameter Estimates			
Cov Parm	Estimate		
Residual	0.3462		

Fit Statistics				
-2 Res Log Likelihood	93.5			
AIC (smaller is better)	99.5			
AICC (smaller is better)	100.3			
BIC (smaller is better)	98.4			

Type 3 Tests of Fixed Effects					
Effect	Num DF	Den DF	F Value	Pr > F	
chemical	3	12	44.59	<.0001	