

Modified Substitution Data Sheet

Laboratory data and conditions:

Operator			
Date		Temperature	
Balance		Pressure	
Load		Relative Humidity	
Standard deviation of the process, from control chart, s_p			

Mass standard(s) data:

ID	Nominal	Mass Correction*	Expanded Unc: From cal. Report	Unc: k factor	Density g/cm ³
S					
sw					
X_1					
X_2					
X_3					
t_x					
t_s					

*Mass Correction = *True Mass* if using buoyancy correction. Mass Correction = *Conventional Mass* if NOT using buoyancy correction. Density is used only with buoyancy corrections.

Observations:

Observation No.	Weights	Balance Observations, Units _____	
Time:			
1 (O_1)	S		
2 (O_2)	$S + sw$		
Error < 2 percent of optical scale or electronic range? Yes No			
3 (O_3)	S		
4 (O_4)	X_1		
5 (O_5)	X_2		
6 (O_6)	X_3		
7 (O_7)	S		
8 (O_8)	S_c		
Time:	Drift < 1/10 Tol. ? : Yes No		

Up to 10 unknown weights may be checked with this procedure if the drift is less than 1/10 of the tolerance.