

AEROSOL SAMPLE WEIGHT FORM

Date: _____ Analyst: _____ Balance: _____

SAMPLE #	
Weight of the unopened can W_{un}	
Weight of can after release of propellant W_{ex}	
Weight of the empty storage jar W_J	
Weight of the Jar + sample W_{J+S}	
Weight of the empty aerosol can W_{can}	
Phases: Single or Multi? If Single, sonicate for 10 minutes. If Multiphase, skip sonication.	
Weight of Jar + sample post sonication W_{Son}	
Sample in jar $W_{Sample} = (W_{Son} - W_J)$	
Weight of the propellant $W_{prop} = (W_{un} - W_{ex}) + (W_{J+S} - W_{Son})$	
% Propellant = $(W_{prop} / W_{ts}) * 100$	
Total sample weight $W_{ts} = (W_{un} - W_{can})$	
mLs of IPA added	
mLs of THF added	
mLs of Hexane added	

$$\text{Target Weight (in mg)} = \frac{\text{Conc. of Level 3 standard (mg/mL)} \times \text{Dilution (mL)}}{\% \text{ Label Claim} / (100 - \% \text{ Propellant})}$$

Theoretical concentration of multi-phase after addition of solvent:

$$C_{theo} = (W_{ts} * \% \text{ Label Claim}) / \text{Final Du}$$

Final Du = final size of volumetric flask (typically 1000 or 2000mL)