

FIG. 1

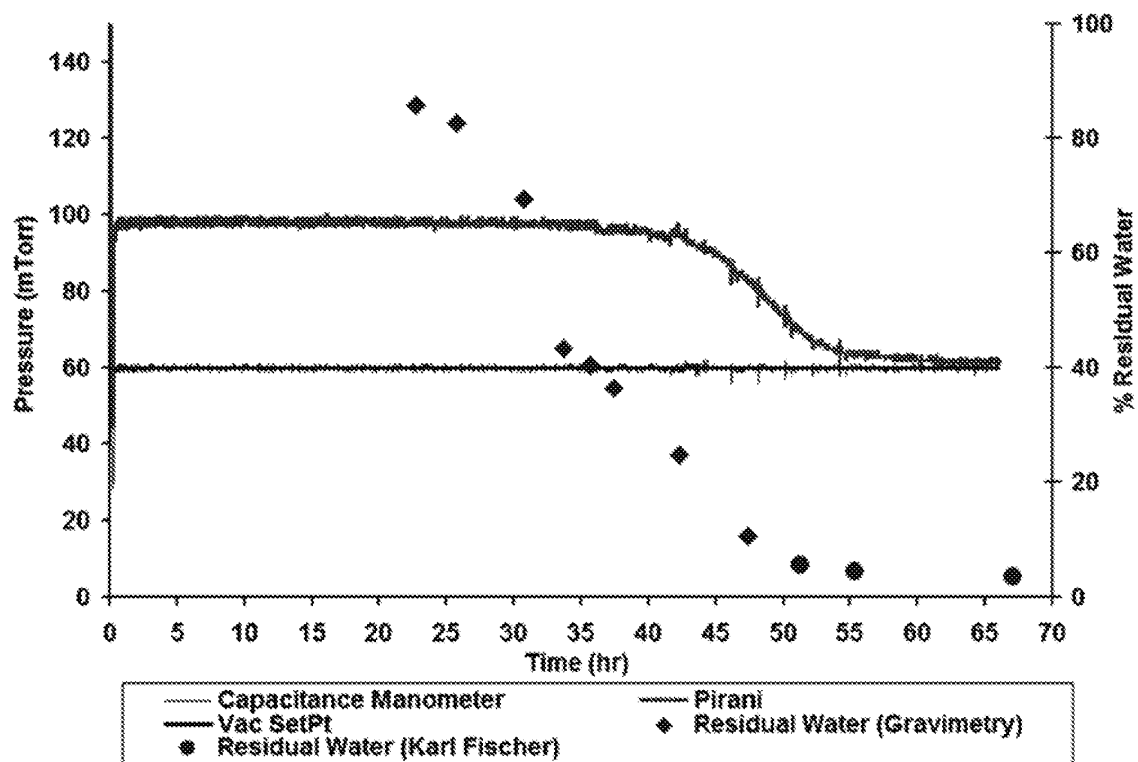


FIG. 2

Shelf Temp (°C) vs. Time (hrs)

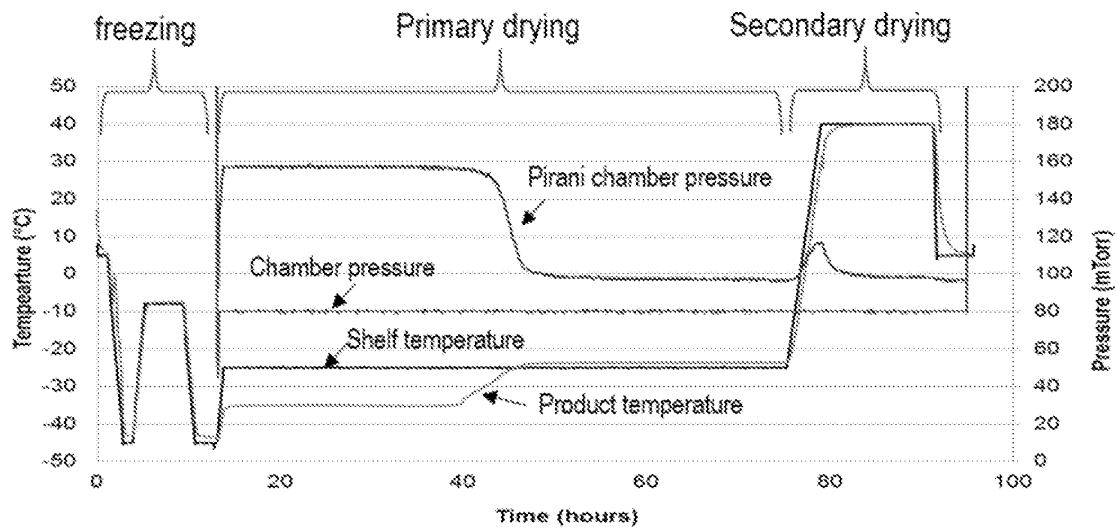
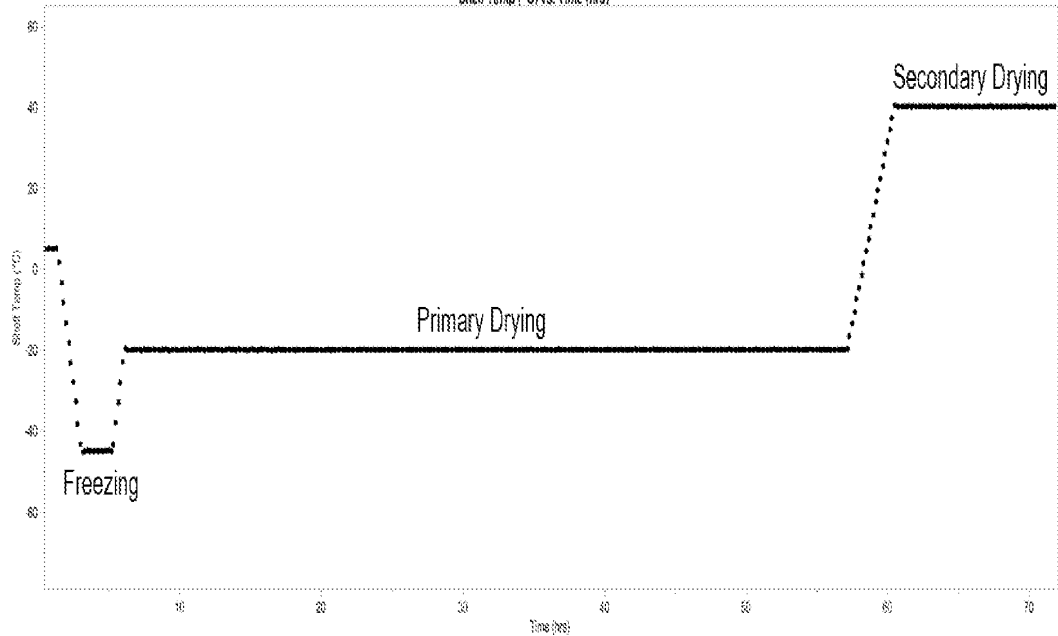


FIG. 3

Shelf Temp (°C) vs. Time (hrs)

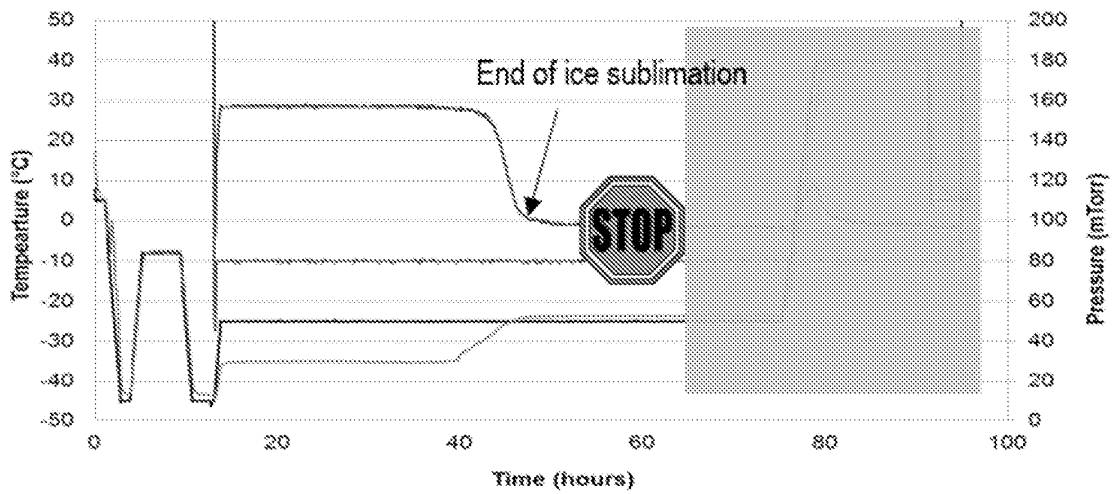
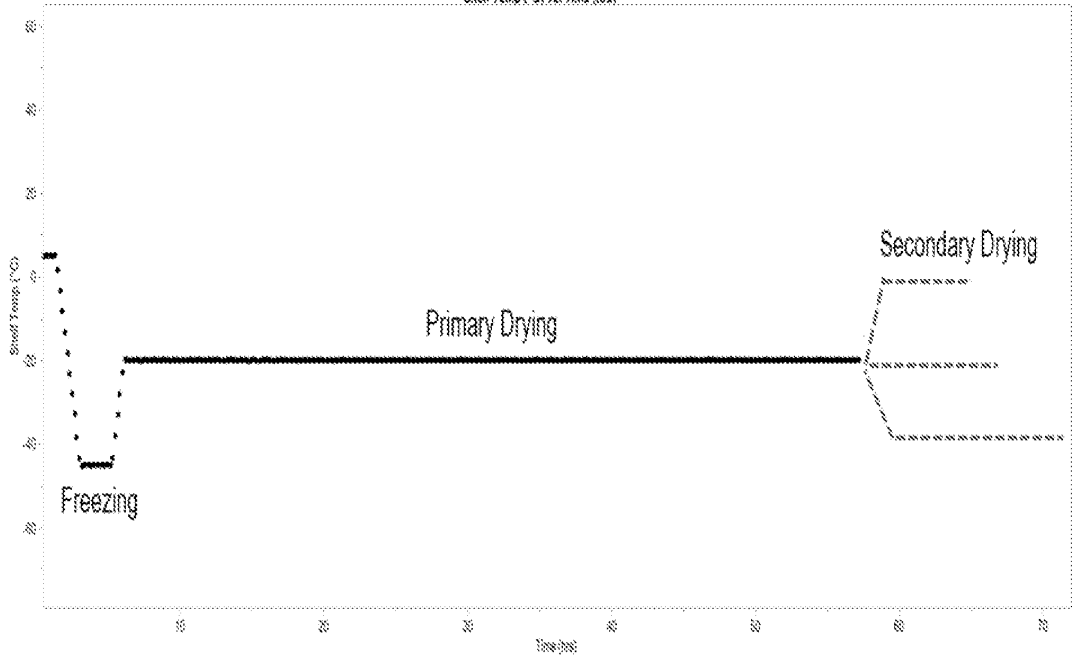
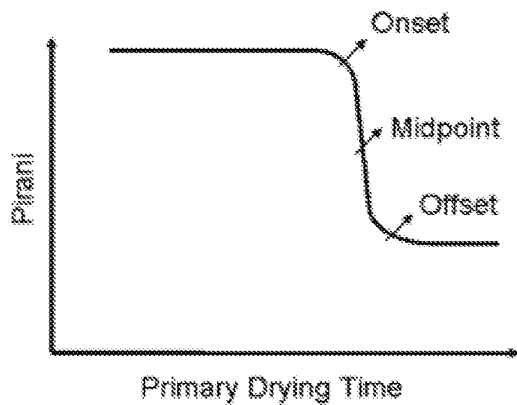
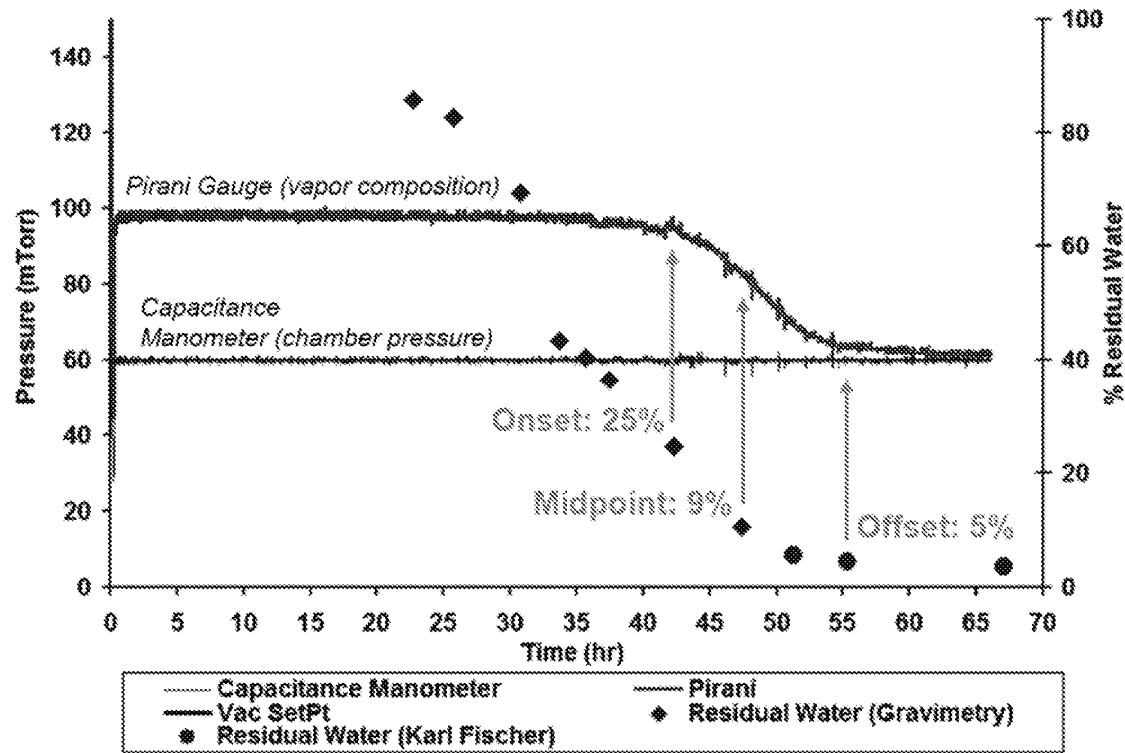


FIG. 4



Lyo Solution	% H ₂ O at Offset
5% Sucrose	5
5% Mannitol	4

FIG. 5

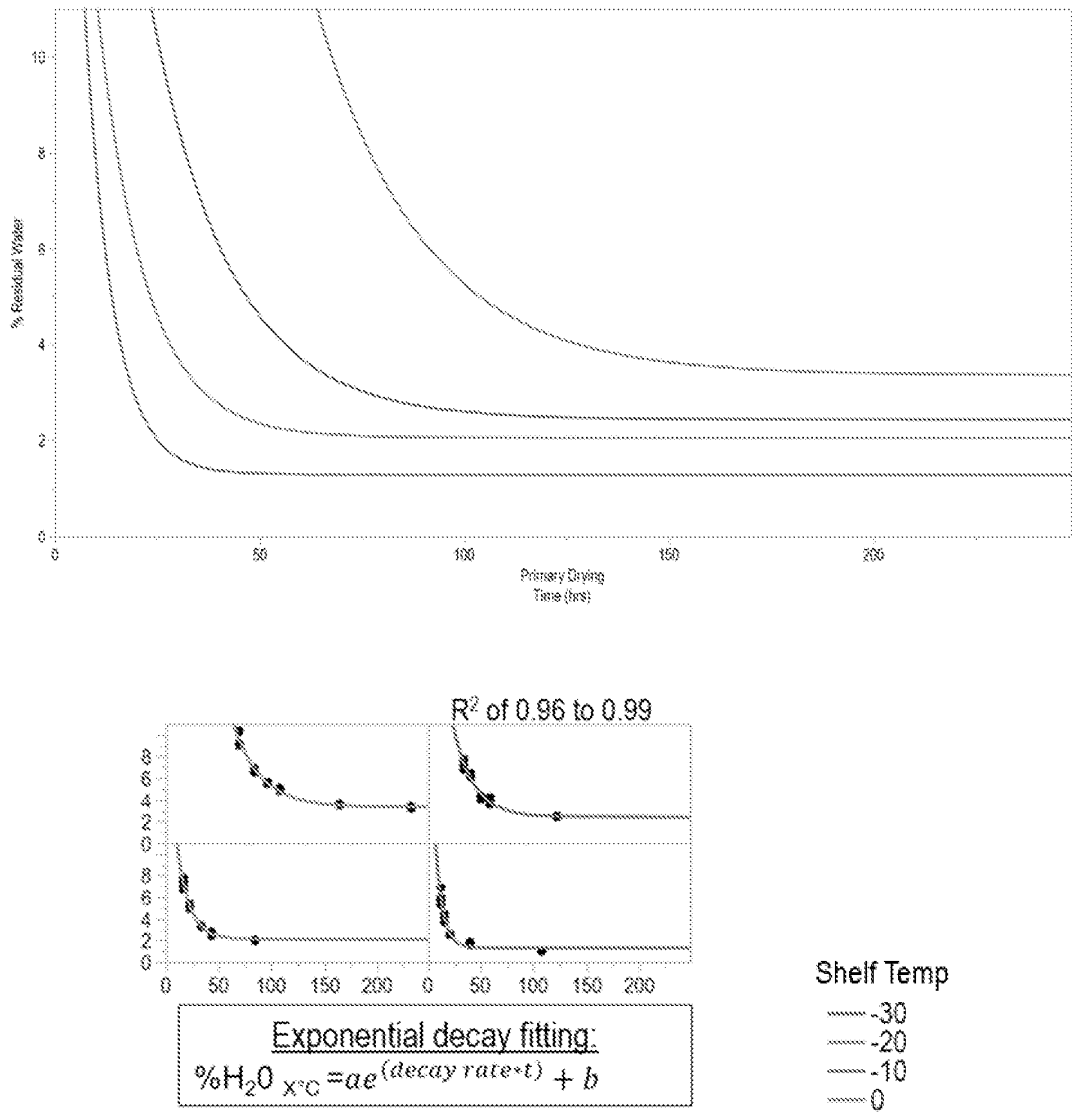
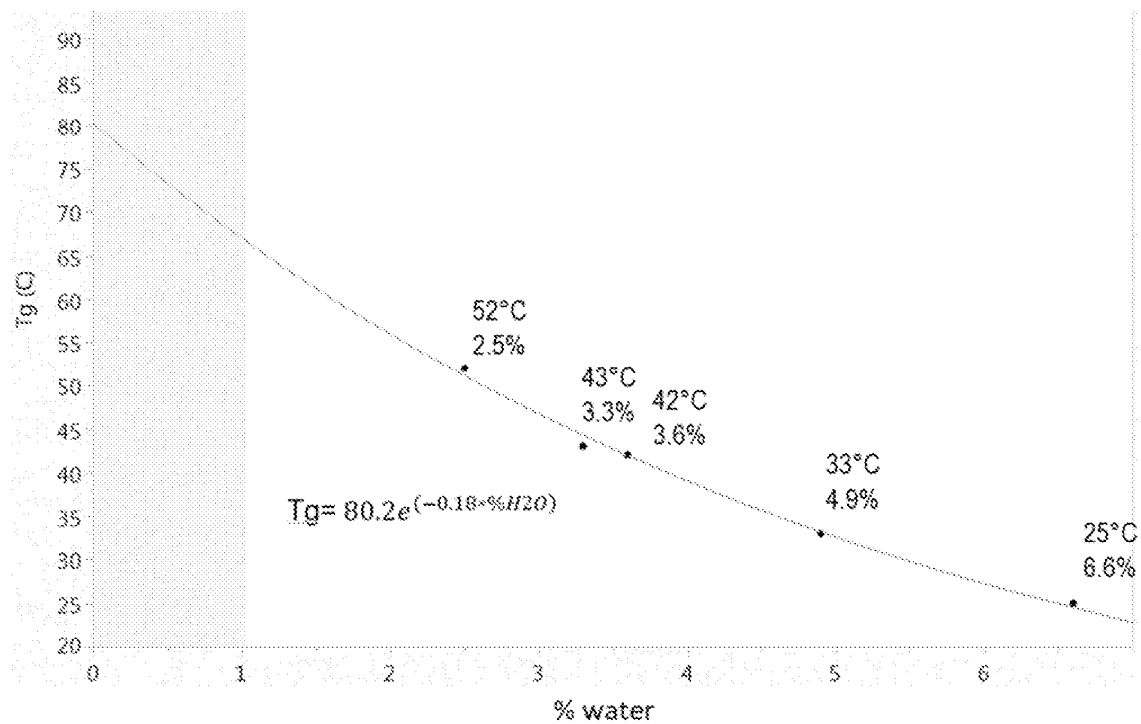


FIG. 6



Pure Excipient	Tg (°C)
Sucrose	68-75
MABB	NA
Arginine HCl	NA
PS80	NA
Acetate	trace amount
Water	-140

FIG. 7

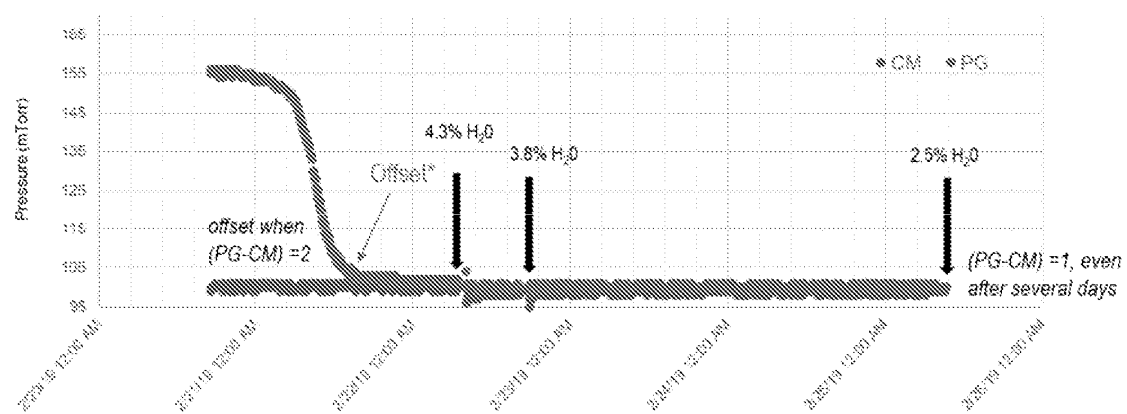
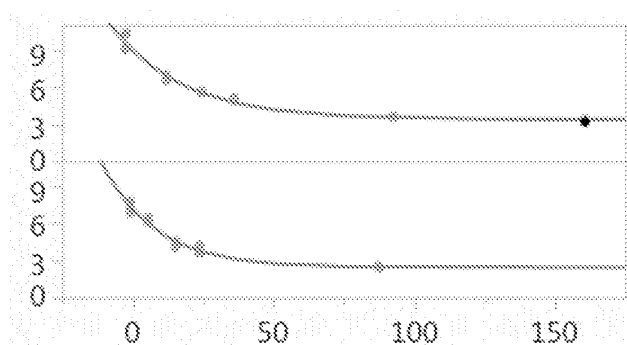
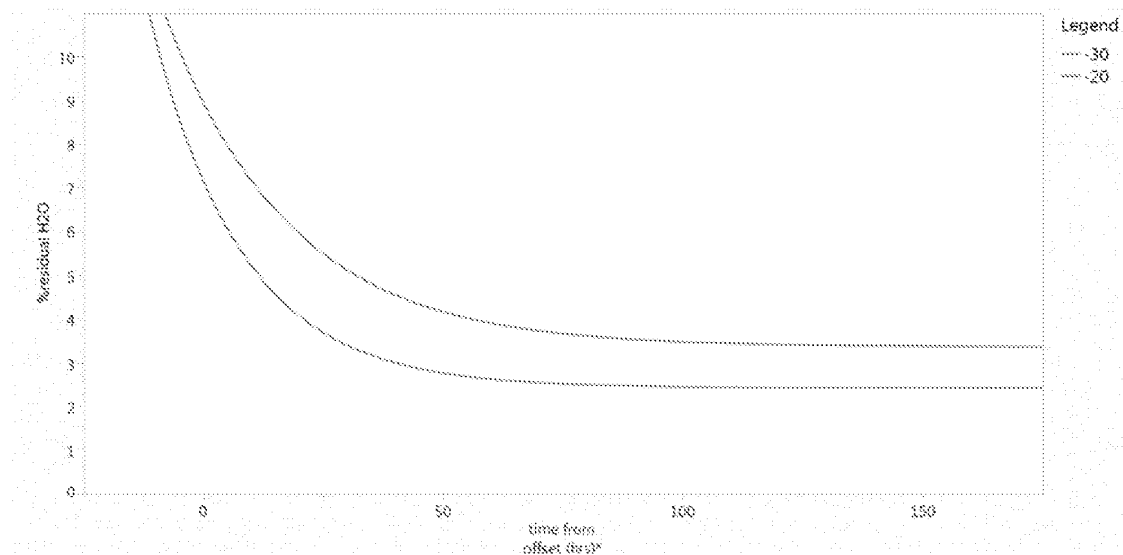


FIG. 8



Exponential decay fitting:

$$\%H_2O_{-30^{\circ}C} = 5.59e^{(-0.0388*t)} + 3.36$$

$$\%H_2O_{-20^{\circ}C} = 4.72e^{(-0.0528*t)} + 2.42$$

100

150