

08/05/2020 RM3100#1  
 Temp chamber heat / cool-down  
 cycle 2 hours 40min 1515-1755  
 EDT.

Small internal volume of  
 temperature chamber along with  
 slow heating and cooling rates  
 insure uniform temperature of  
 RM3100 board.

Raw data plot, no filtering.

Dotted lines indicate heater  
 current turn on and turn off  
 which creates a small local B  
 field.

Yaxis orientation roughly EW.

B scale in nT

J.Madey-K2KGJ

Trace magnitudes positively  
 related to temperature, the  
 opposite sense of RM3100#2  
 run in the morning.

Note, however, that the vertical  
 shift due to onset of heater  
 current at start and turnoff of  
 heater current to begin  
 cooldown is the same sense in  
 both units.

Sign of temperature coefficient  
 of unit #1 is positive and for unit  
 #2, is negative.

For X and Y axis, magnitude of  
 temperature coefficient is  
 approximately 0.5% per degree  
 C for unit 1 and 1% per degree  
 C for unit 2 in the temperature  
 range examined.

