

Remanence Tests 11_14_17 jmf

These are the test results for a 2" OD ferrite toroid coil and the power required to raise the current to a peak level of 100ma with various levels of flux remanence in the core. The results indicated that less power is required for positive remanence levels and more power is required for negative remanence levels. Fig1 below shows the schematic used for each test and Figs 2-5 show the scope test results. It should be noted that this core would maintain the remanent flux for hours with no change.

NZR = 319.4uJ, NR = 380.5uJ, CPR = 302.5uJ, PR = 304.5.

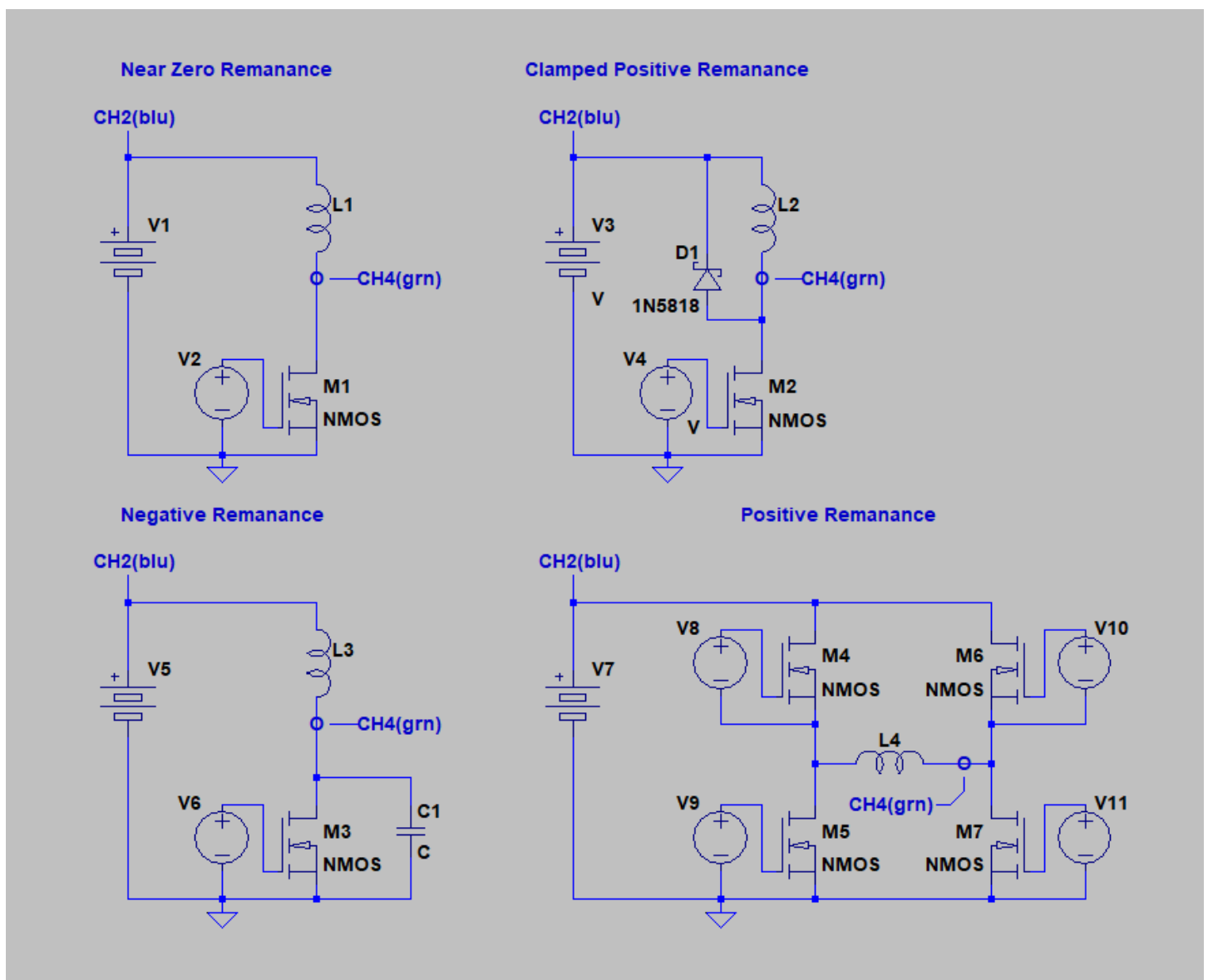


Figure 1

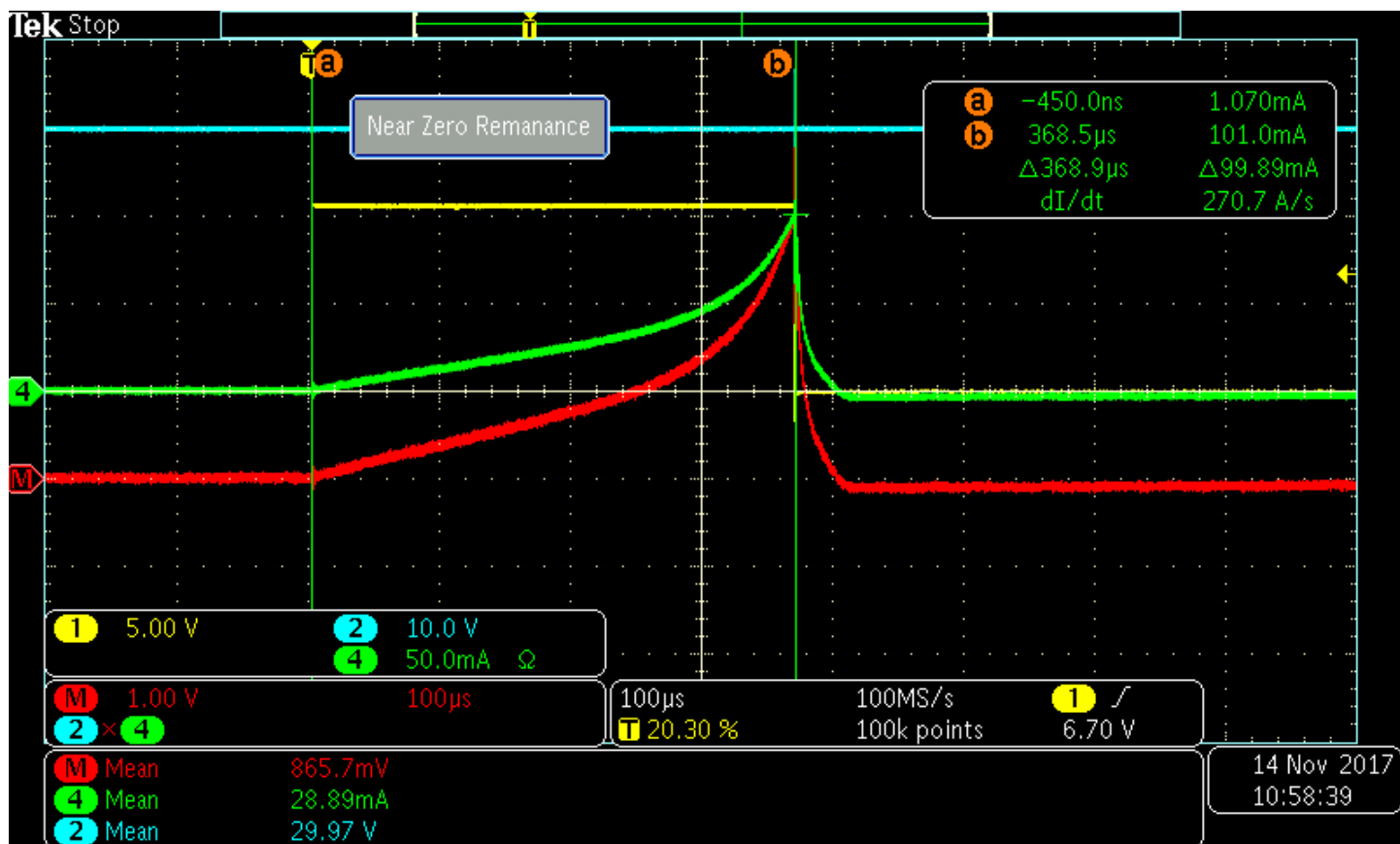


Figure 2



Figure 3

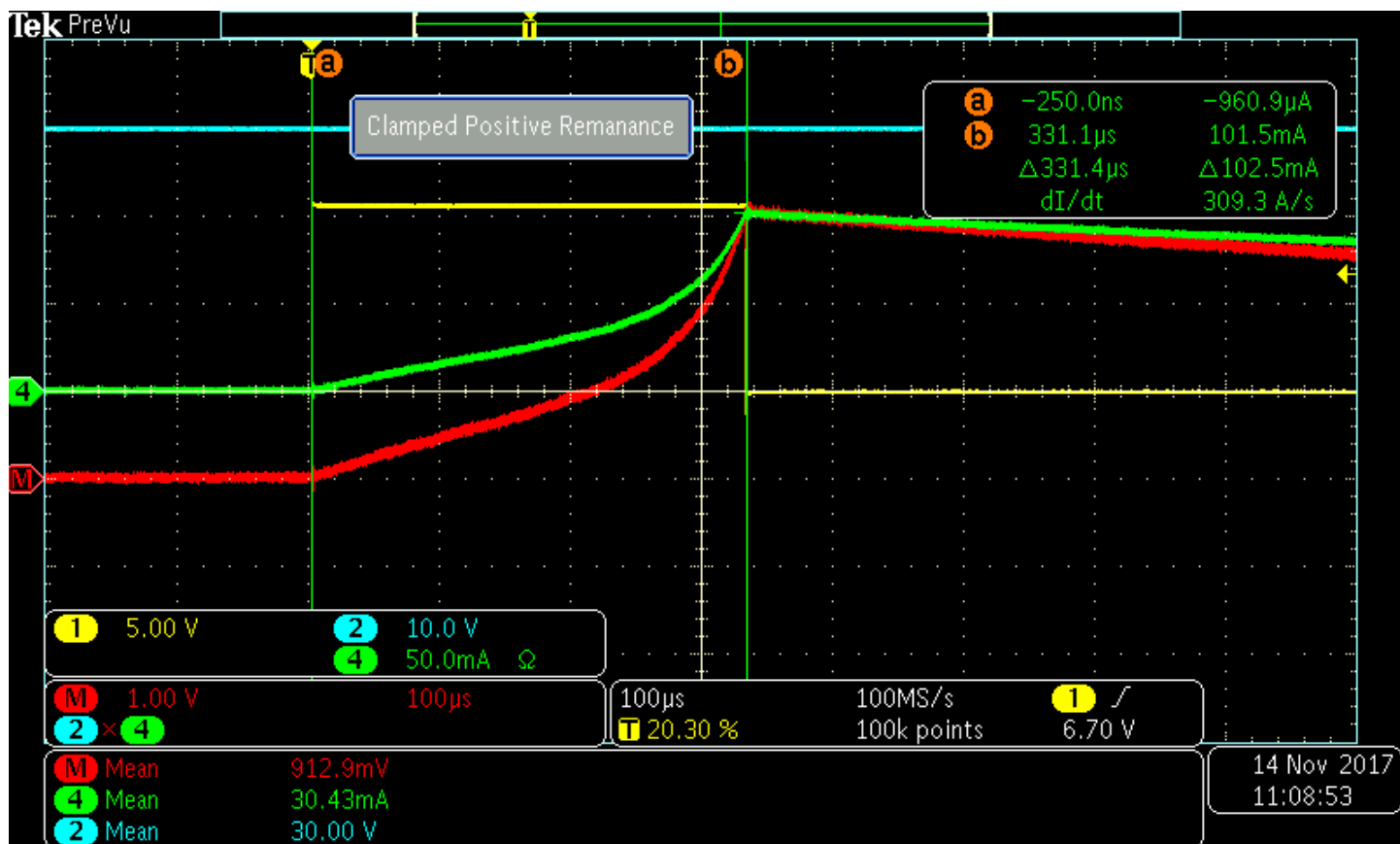


Figure 4



Figure 5