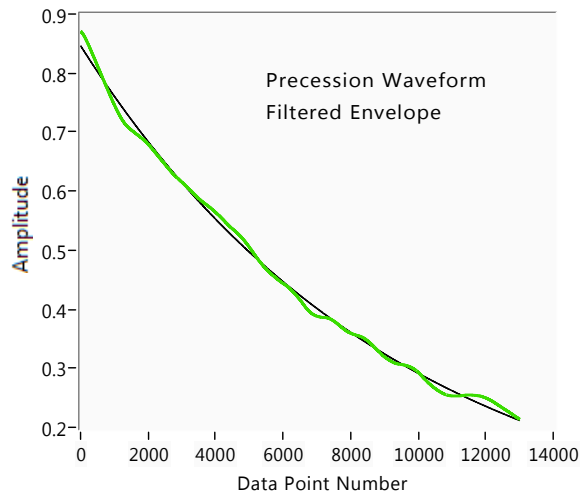
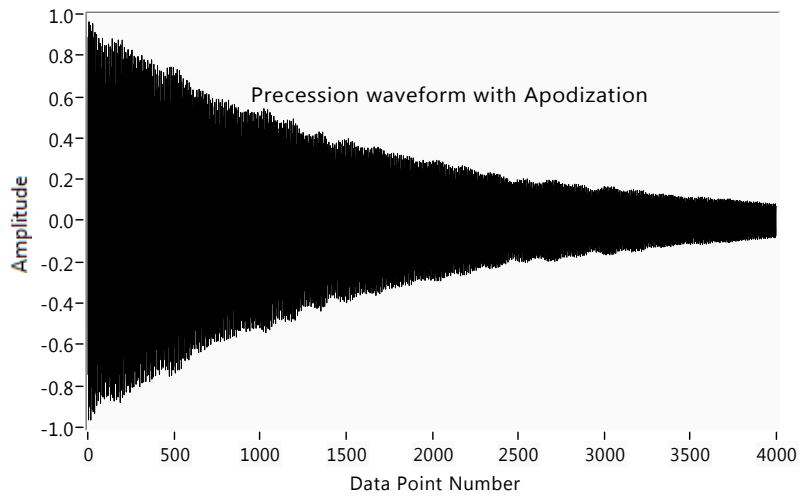
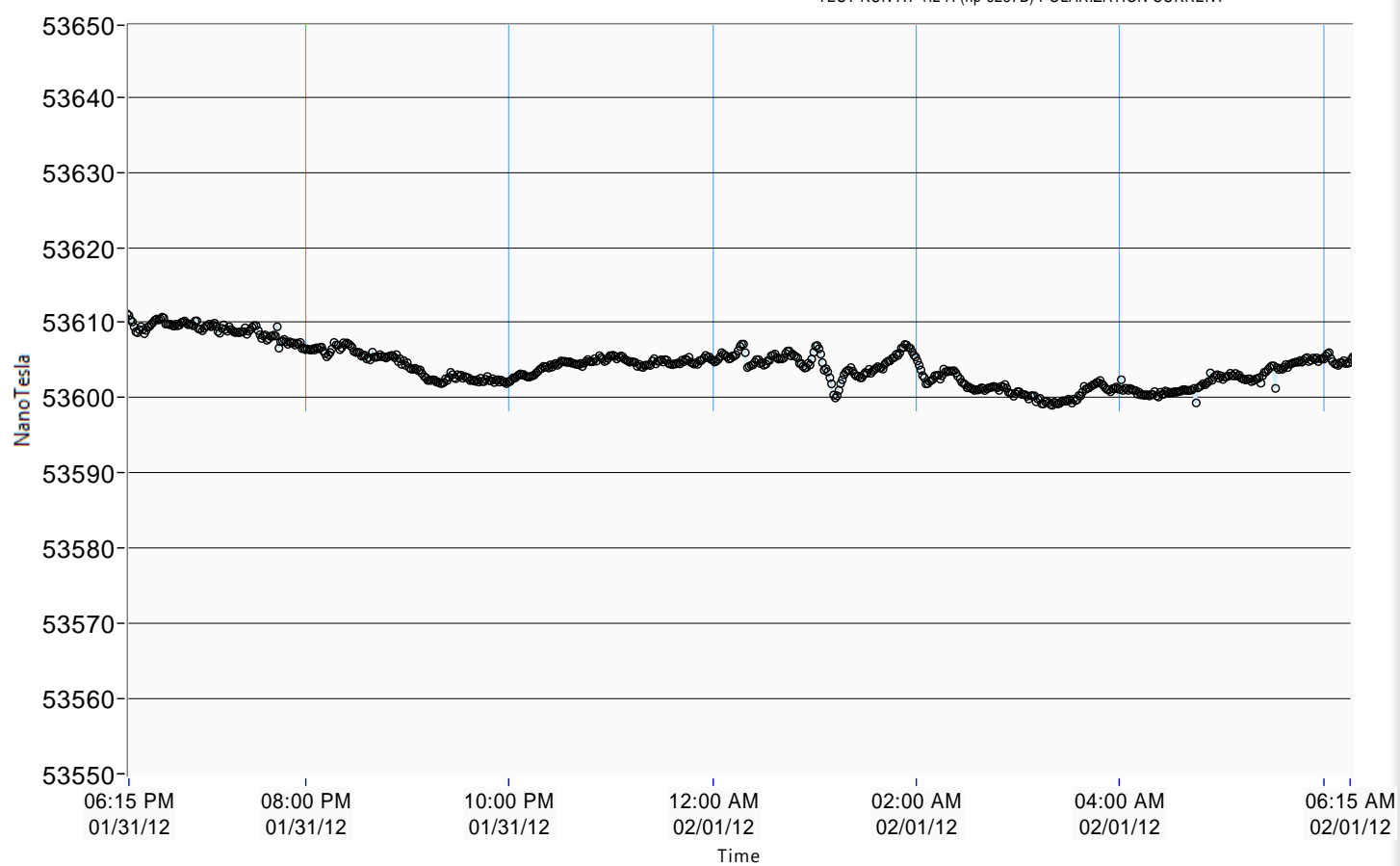


STOP



FAST CYCLE  FDM Amp 0.80 V FDM FOM 1.0E-7 FDM NB S/N 14.4 dB Msrmt STATUS ● time of last meas 11:07:22 AM 2/1/2012 FiltEnv Max 0.846 V Air Temp 46.9 F Fluid Temp 48.3 F Tau 2 0.94 s Total No. Measurmts 8890 No. Pltd Measurmts 7693 % Success 87

TEST RUN AT 1.2 A (hp 6237B) POLARIZATION CURRENT



F SCALAR Vs Time HIGH FOM PRECESSION FREQUENCY AUTO-RETRY THRESHOLDS Tau2 FEEDFORWARD

F SCALAR 53600.17 nanoTesla 2281.335 Hz FOM 2E-6 NB S/N 5 dB T2 MAvg 3 T2 Avg 0.94 T2 Nxt PT 0.762 s

Number Samples 25000 Desired Smp Rate 10000 Hz Multiplier (Scale) 1.00003525 Actual Sample Rate fs 10000.3525 Hz Envelope Window 2.5 s Exp FV 0.0020 Norm AR 54 s Fast AR 24 s PEV SERVO MAvg 0.3944 c1 0.018 c2 0.2657 c3 1.1202 c4

POLARIZE TIME 0.200 s 1 s 0.020 s 0.050 s Err Code 0 12500 1.25 s TIMER 39 Set PEV 0.85 V GAIN 4

RELAY OPEN DELAY 1 (200 ms) FET ON (2 sec) FET OFF DELAY 2 (20 ms) RELAY CLOSE DELAY 3 (50 ms) Local Offset 18.0 nT

Tau2 FEEDFORWARD: FIXED, PEV Servo, Tau 2 FF, c5 TSens -60.919, c6 TSens 182.11, Polarization Time Controller