

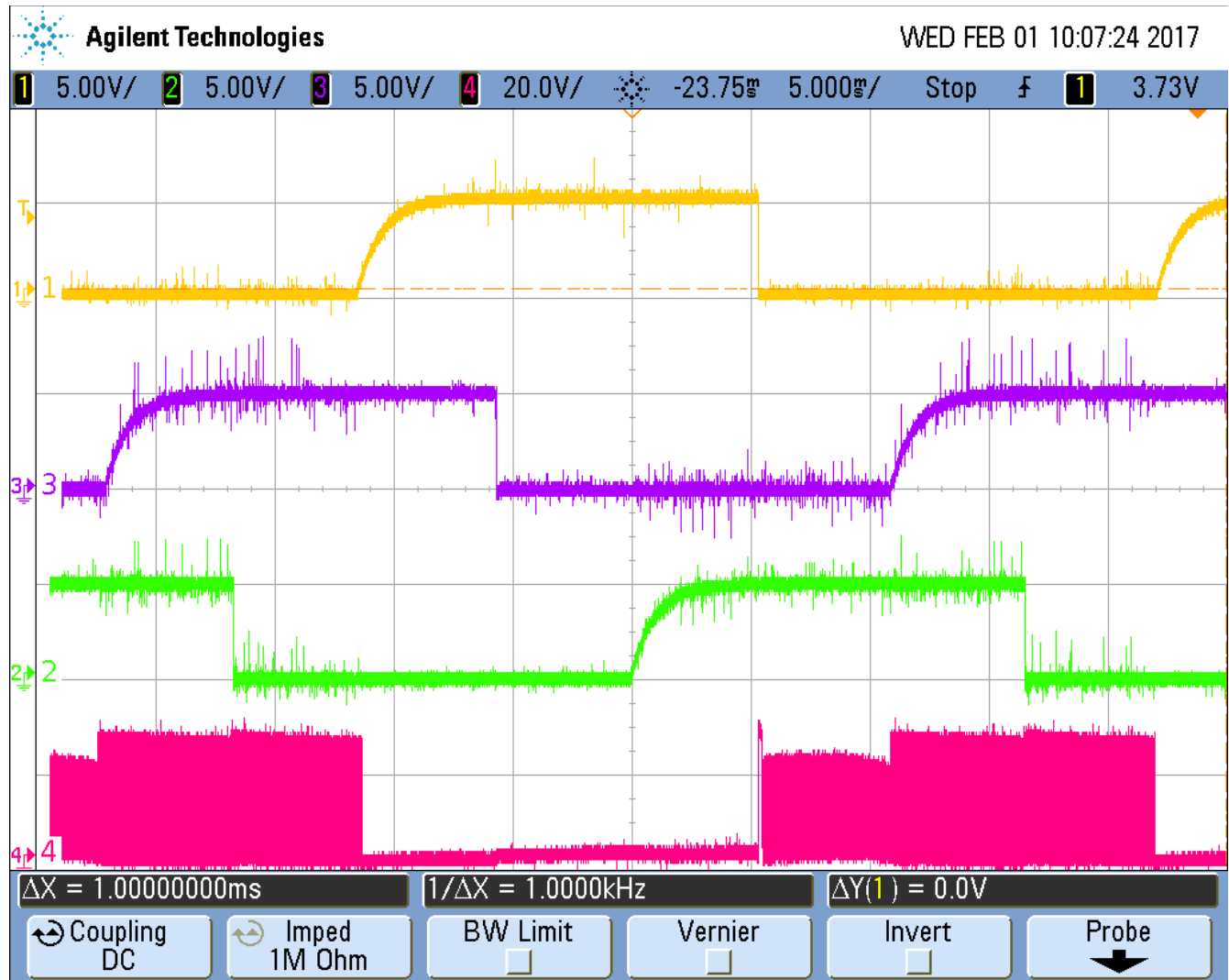
Motor Drive Signals for Verification

Channel 1: U Hall Sensor

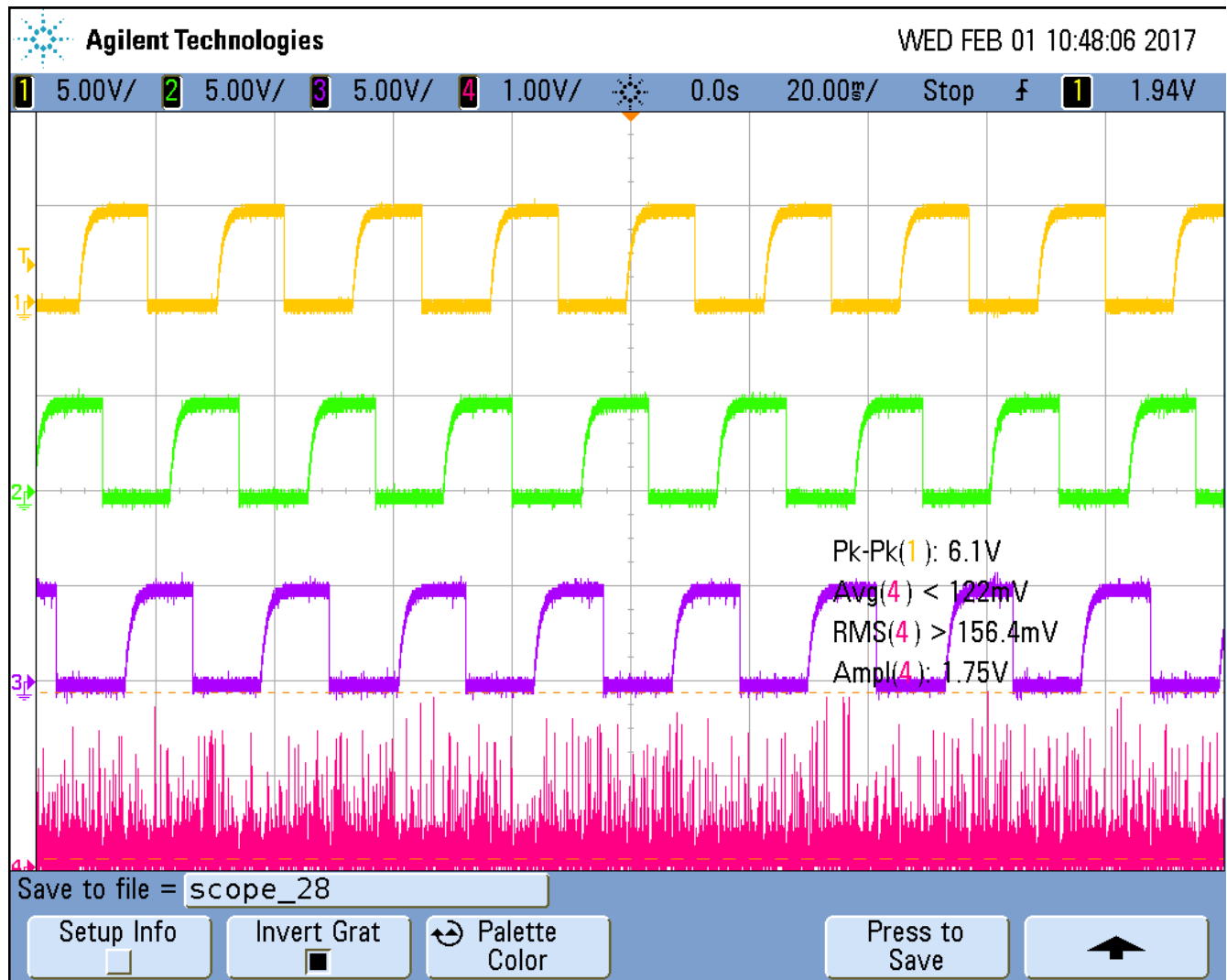
Channel 2: V Hall Sensor

Channel 3: W Hall Sensor

Channel 4: U Motor Drive



Channel 1: U Hall Sensor
Channel 2: V Hall Sensor
Channel 3: W Hall Sensor
Channel 4: Isense



Note that the Isense average as measured by the scope is around 122mV. To me it looks like at least 250mV average and I believe the DRV8307 is hitting current limit and want allow any greater rpm.

I currently have a .028 ohm resistor for the Isense signal, which means the limit should be set for around 9 amp. I'm only getting to about 1.3 amps measured on my power supply.

Also, I'm getting regular current spike at 1.8V, which equates to 64 amps of current. Is this expected? I think this is causing both my .028 ohm resistor and the MOSFETS to run hot.