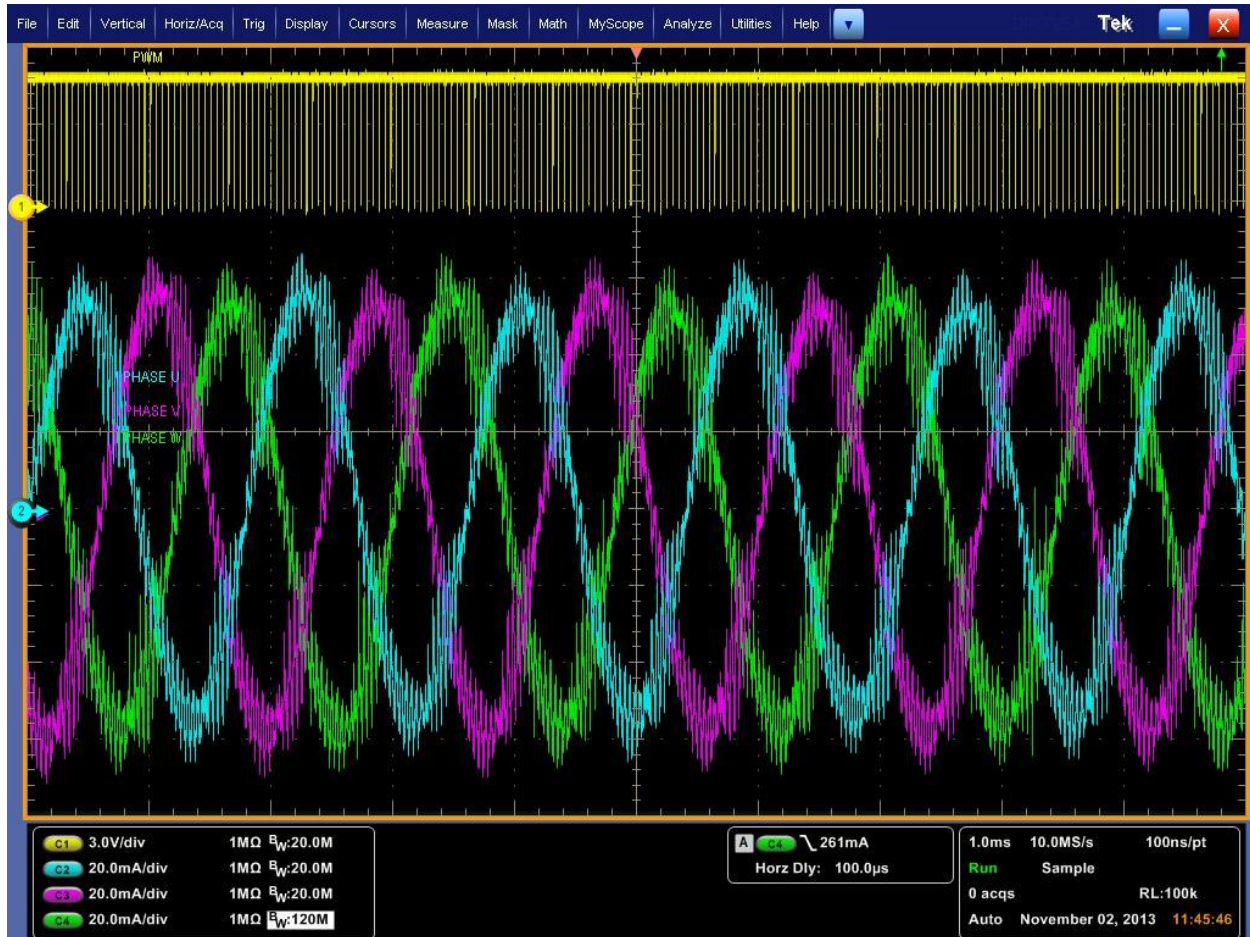


5V, 3-Phase, Sensorless, Sinusoidal Motor System With Variable Speed Control

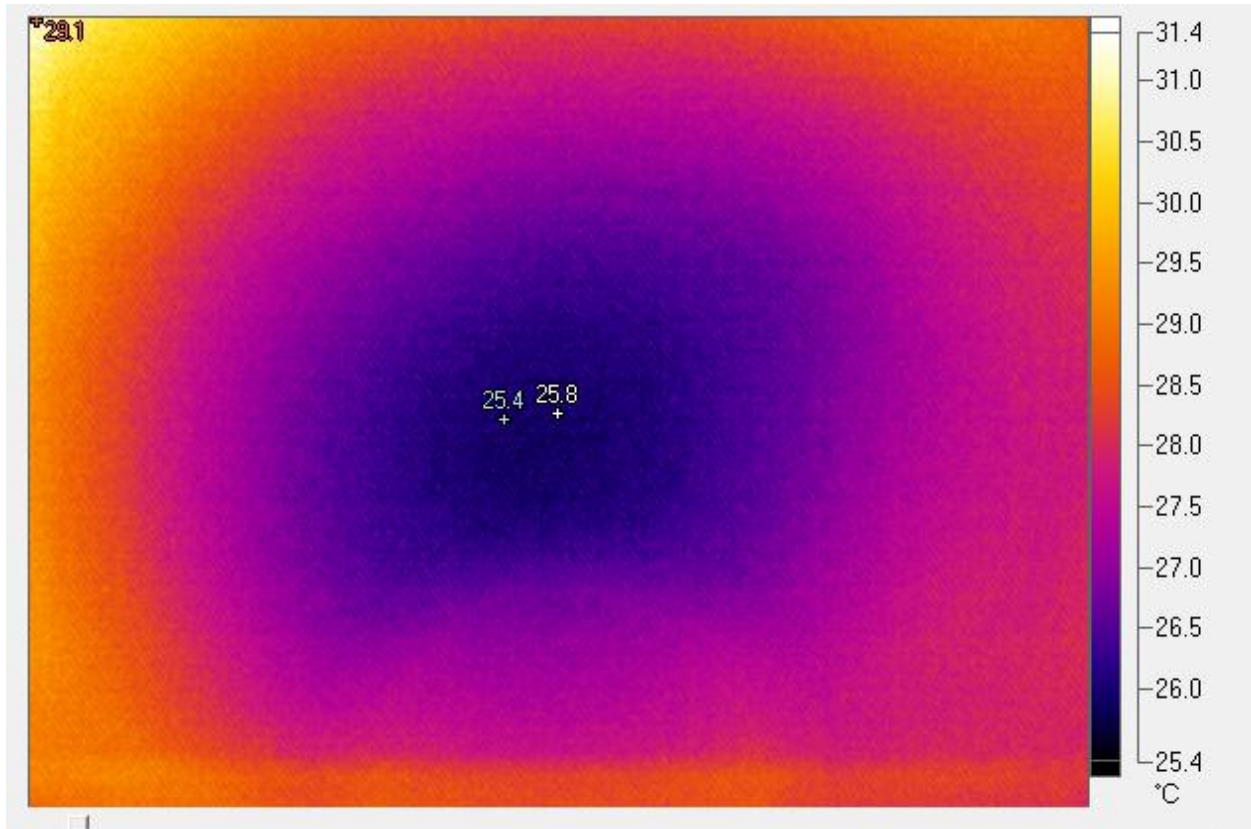
Motor Waveform Data (Tests performed with common 5V motor, no load)

1. Phase currents, Maximum duty cycle
2. Thermal image, maximum duty cycle
3. Phase currents, 75% duty cycle
4. Thermal image, 75% duty cycle
5. Phase currents, 50% duty cycle
6. Thermal image, 50% duty cycle
7. Phase currents, 25% duty cycle
8. Thermal image, 25% duty cycle
9. Phase currents, 5% duty cycle
10. Thermal image, 5% duty cycle

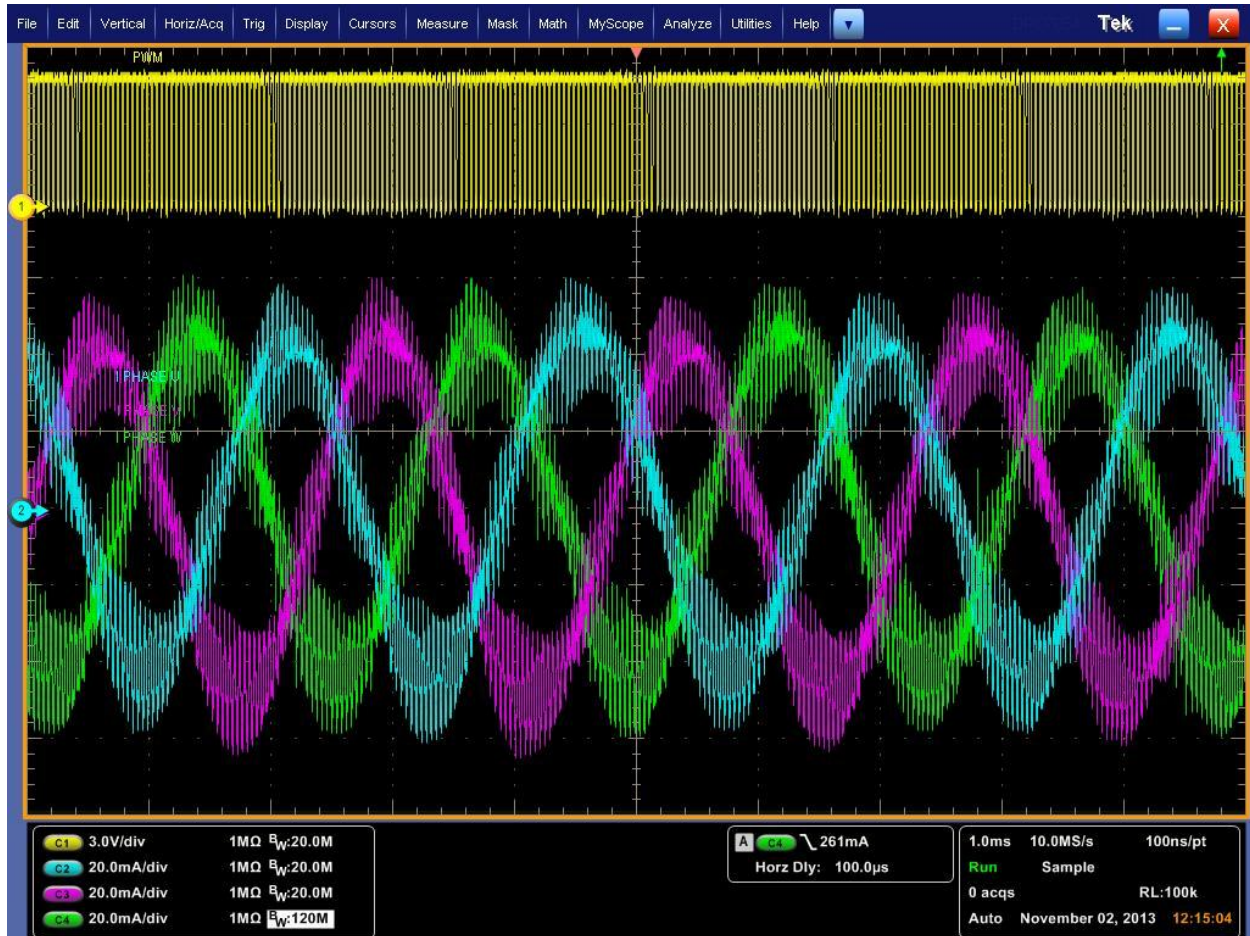
Section 1: Phase currents, Maximum duty cycle



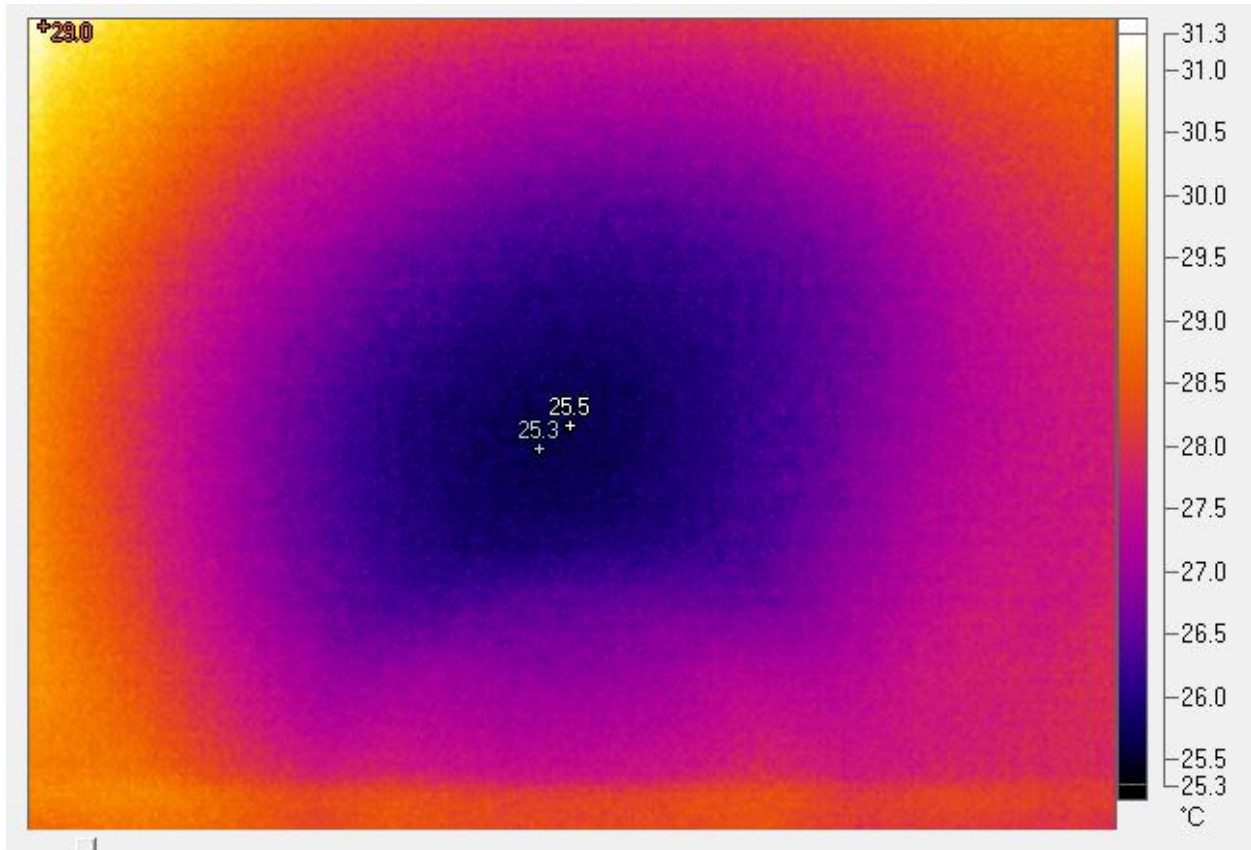
Section 2: Thermal Image, Maximum Duty Cycle



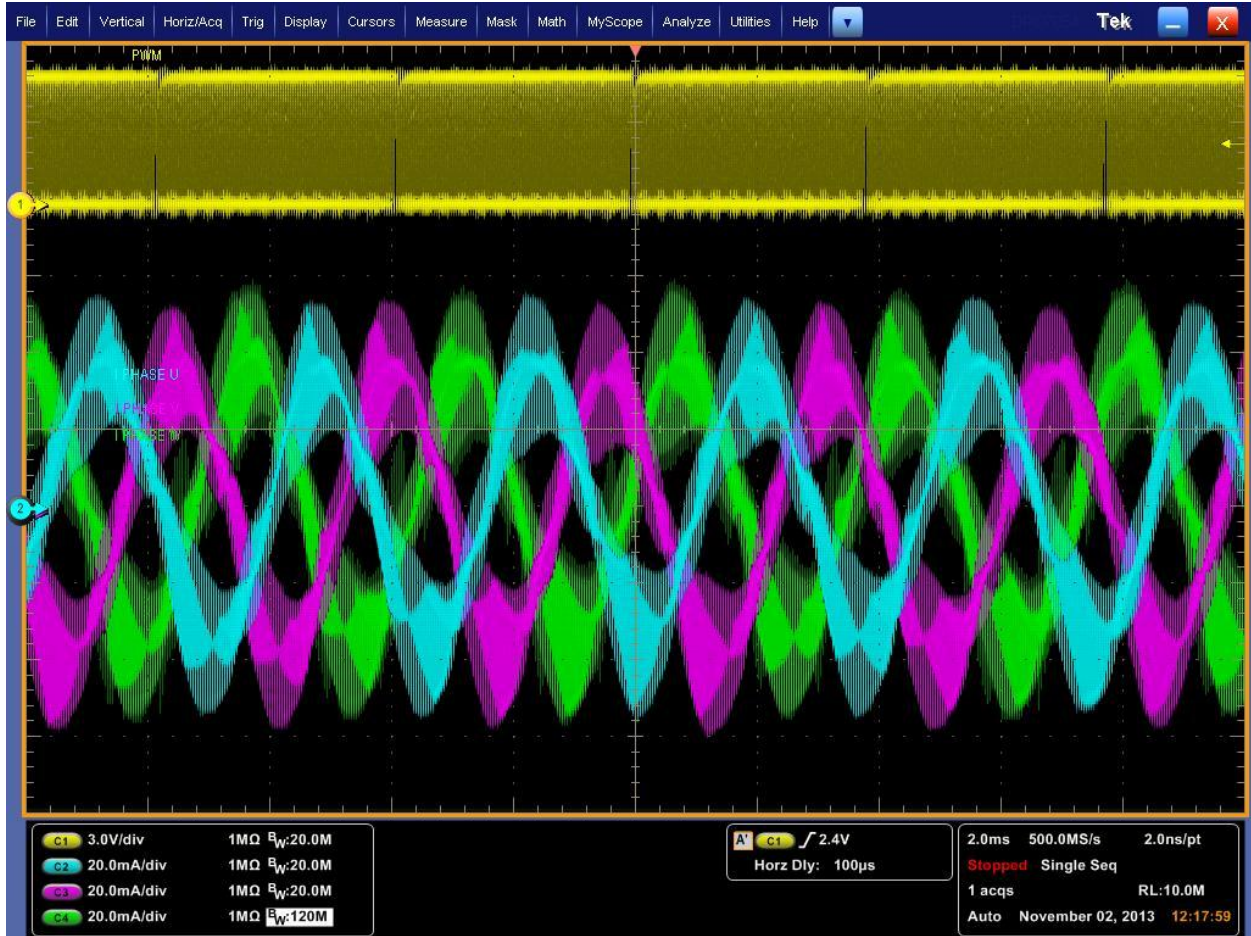
Section 3: Phase currents, 75% duty cycle



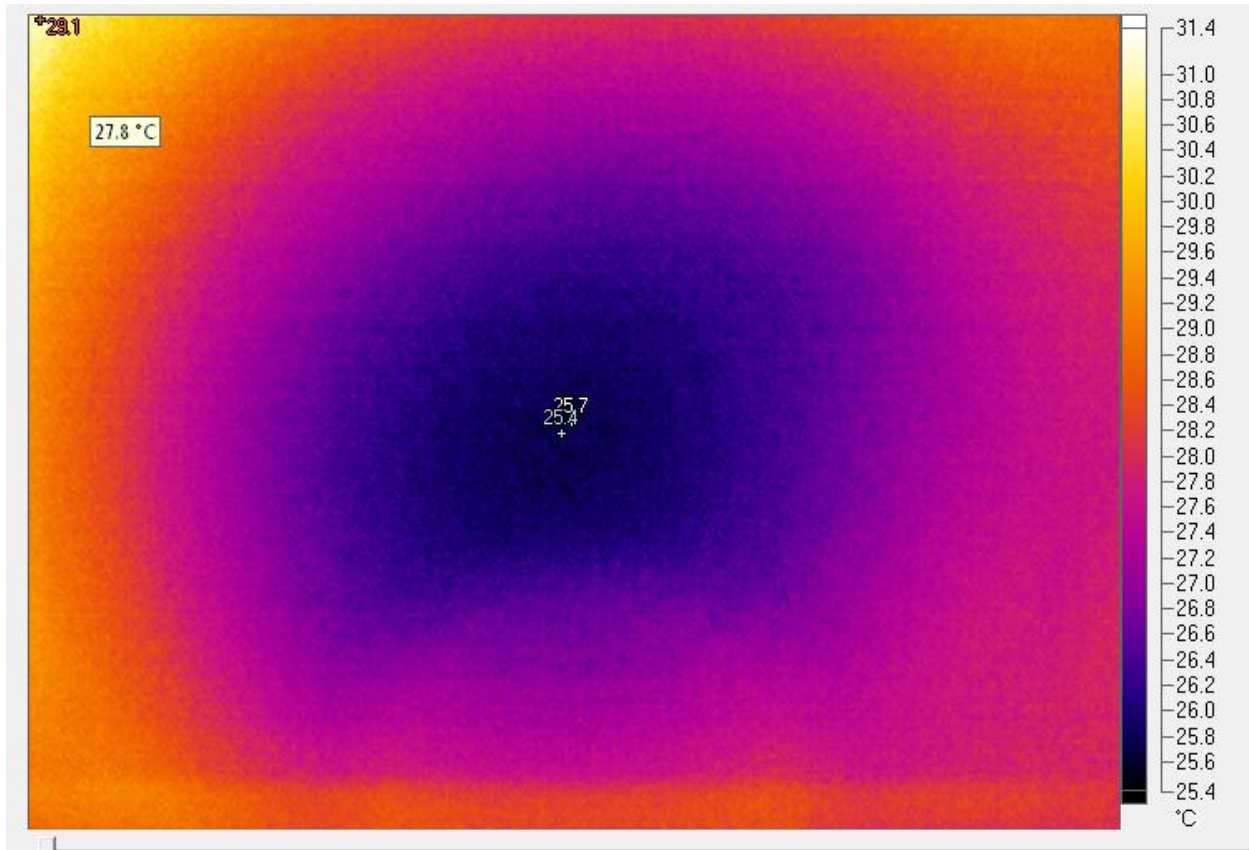
Section 4: Thermal Image, 75% Duty Cycle



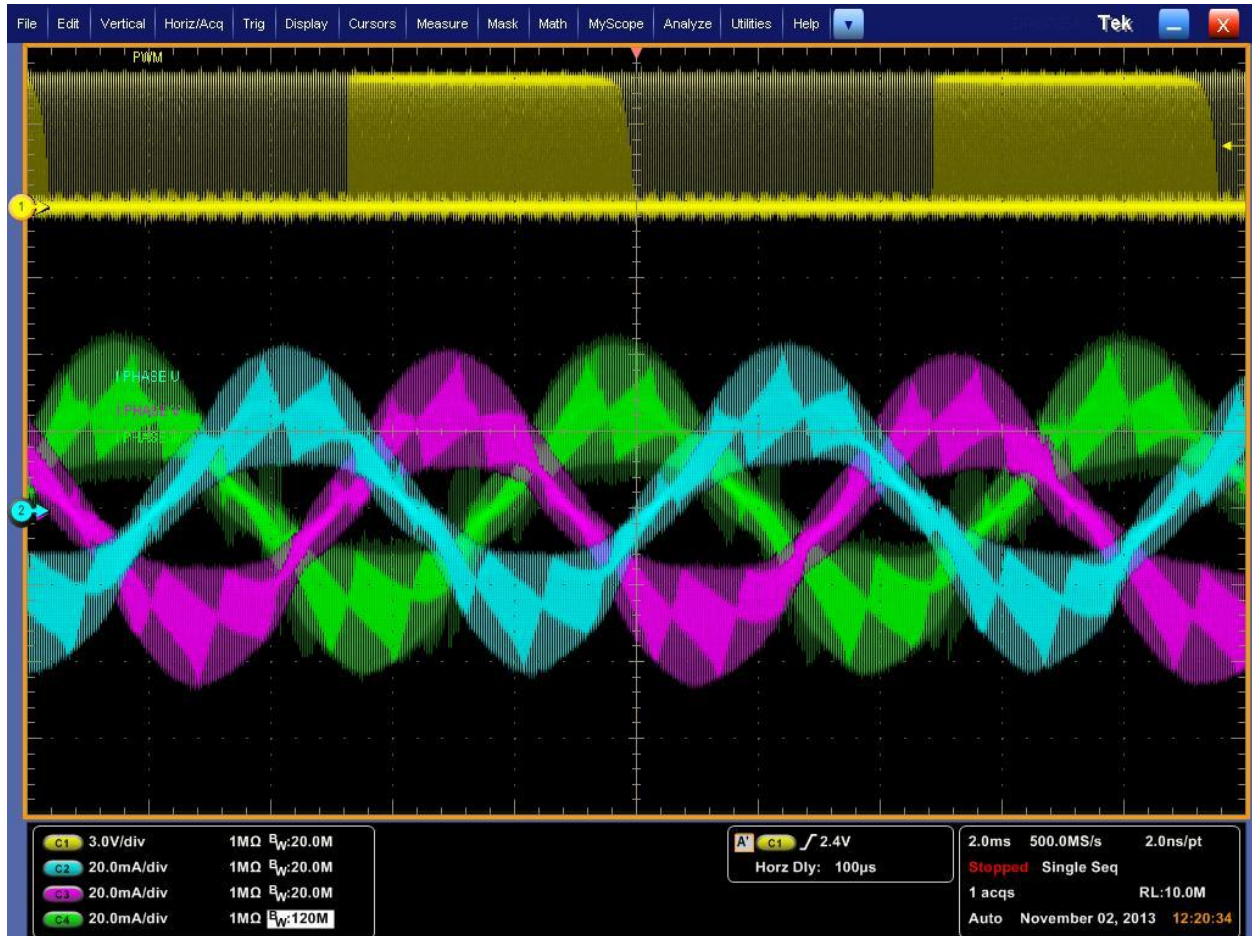
Section 5: Phase currents, 50% duty cycle



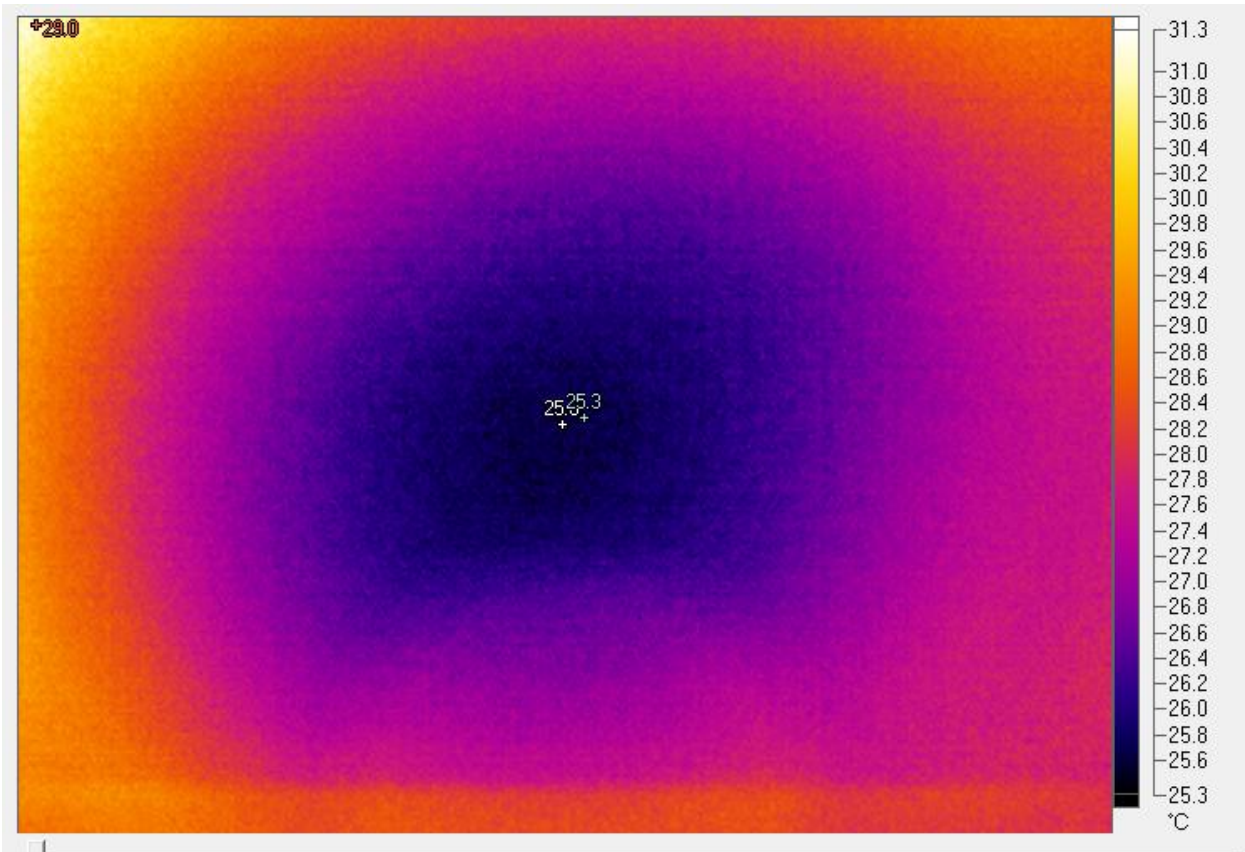
Section 6: Thermal Image, 50% Duty Cycle



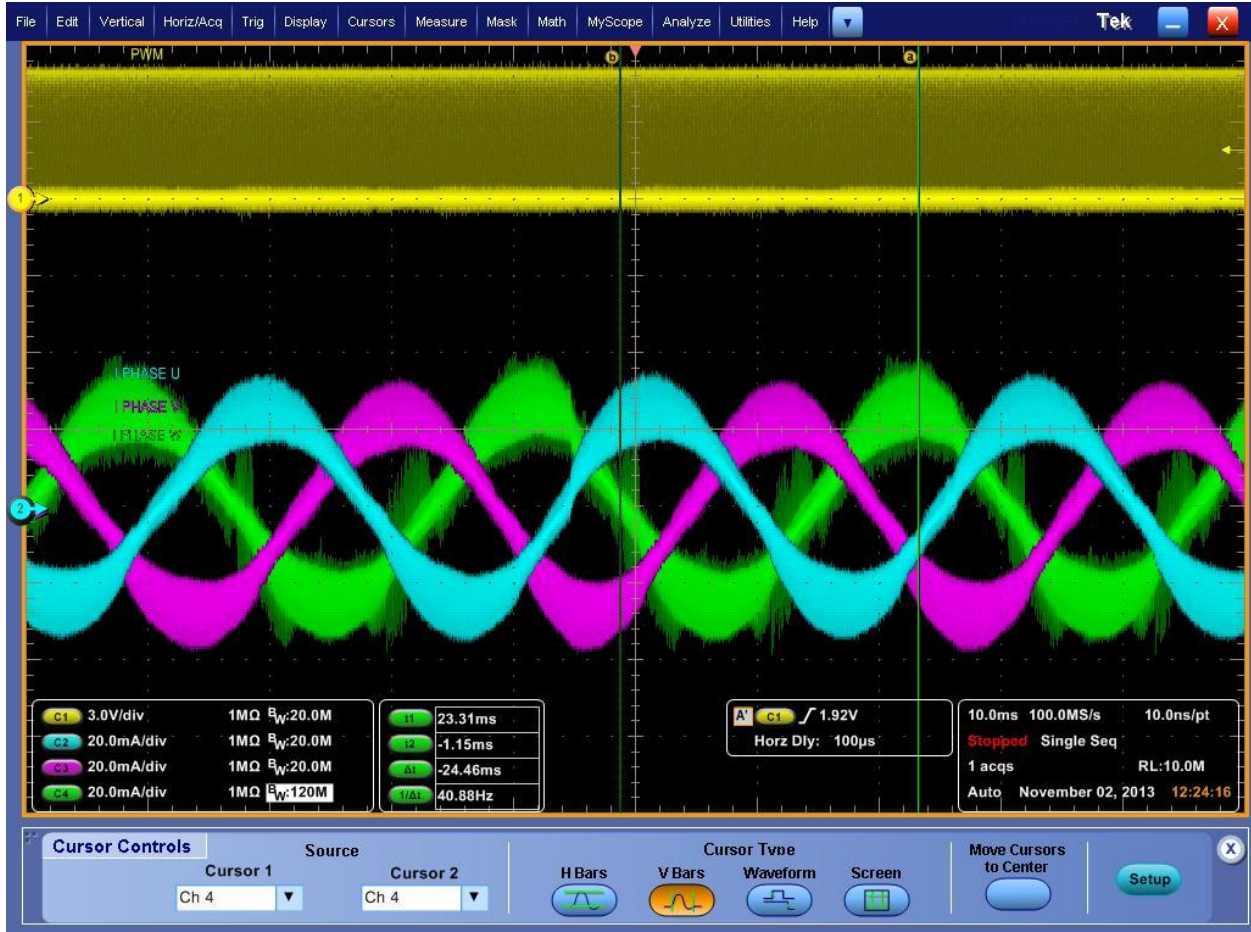
Section 7: Phase currents, 25% duty cycle



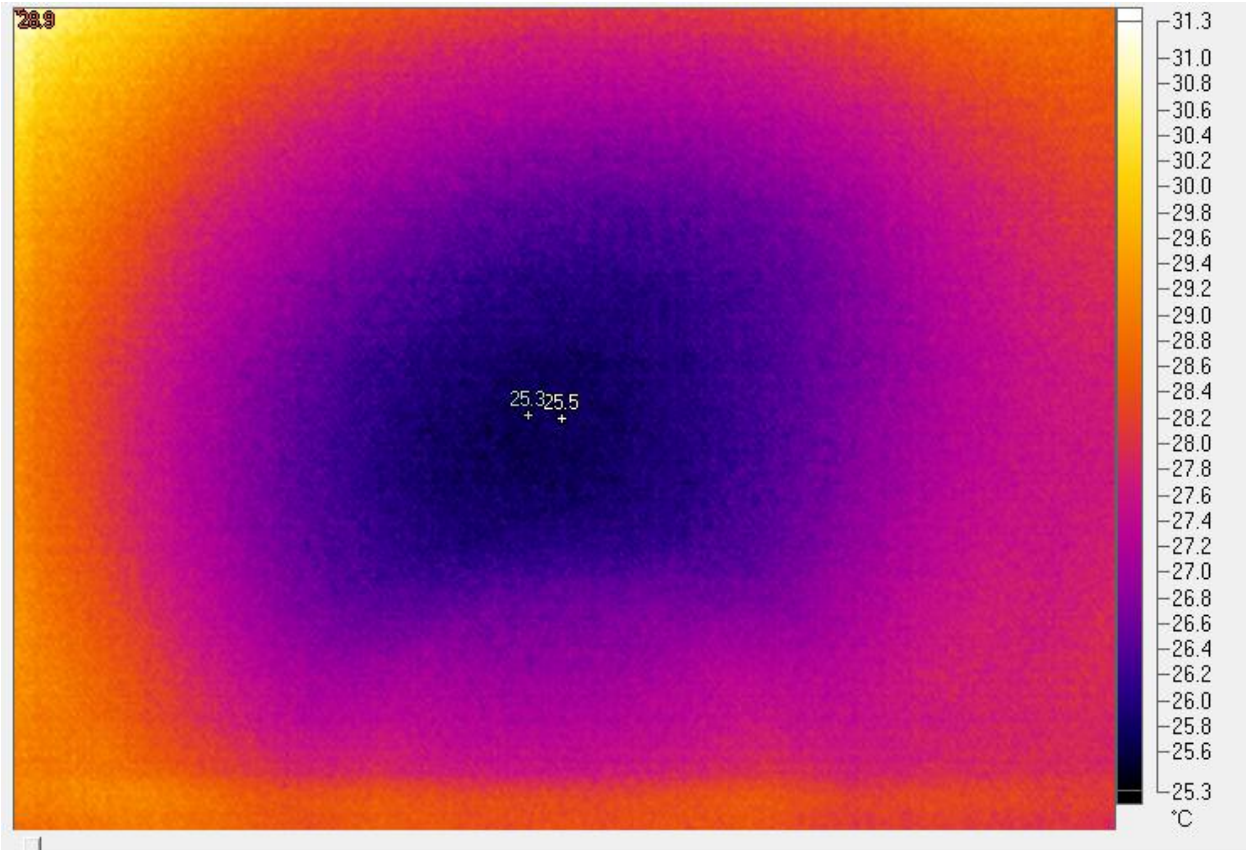
Section 8: Thermal Image, 25% Duty Cycle



Section 9: Phase currents, 5% duty cycle



Section 10: Thermal Image, 5% Duty Cycle



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