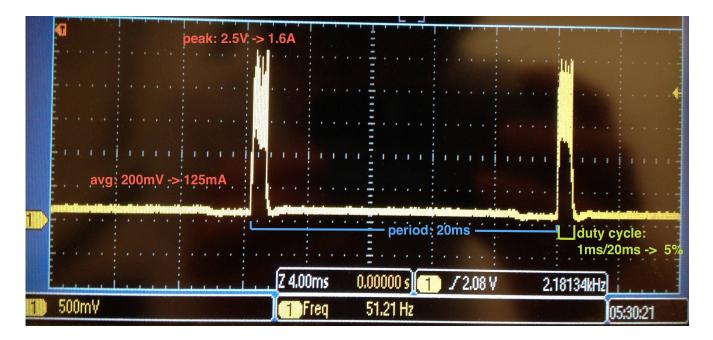
Shield Version	Shield Number	Battery Pack Number	Date//
Arduino Label	DNT Label	Person Testing	
Visual Inspection			
☐ Flash oriented co ☐ GPS oriented co ☐ Power wires con ☐ Winchesters con ☐ Capacitor polaria ☐ Translator orient	rrectly inected correctly nected correctly ty correct ations correct	Wer-Ground Separation	Bobshield-v2.0 Designed By Jacob Heiss August 2013
Arduino and DNT battery grounds connected  Arduino battery and Arduino board grounds connected			
Arduino and DNT battery positive leads <u>not</u> connected			
<ul><li>Arduino battery leads <u>not</u> connected</li><li>DNT battery leads <u>not</u> connected</li></ul>			
[_] GND and Arduin	no 5V <u>not</u> connected no 3.3V <u>not</u> connected no Vin <u>not</u> connected	d	
		Current Checks DNT radio. Load ShieldTest1 (should be ~ 50mA)	onto the Arduino.
[_] Receiving DNT Baseline current Peak current	data. [_] No unexpect (should be ~ 150 _ (should be ~ 1,250n _ (should be ~ 5%)	nA)	: draw.



## **Functionality Tests**

Tunctionality Tests
• Load ShieldTest2 onto the Arduino. Connect PIP_OUT and PIP_IN. Run while collecting DNT
data and rotating the device. Load BobDump onto the Arduino and collect the NAND data.
[ ] Good GPS data (realistic time and coordinates)
[ ] Good compass data
<ul> <li>Accelerometer yields reasonable values and responds to rotating the payload</li> </ul>
<ul> <li>Magnetometer yields reasonable values and responds to rotating the payload</li> </ul>
[ ] Analog pins OK
<ul> <li>PIP_CTRL generates a response at PIP_OUT</li> </ul>
<ul> <li>PIP_IN accurately records this response when wired to PIP_OUT</li> </ul>
NAND works
• Can read/write data to the flash

- Can read/write data to the mash
- Oumped data matches the DNT data reasonably well
- Load ShieldTest3 onto the Arduino. Send data to the Bob over the DNT radio

[ ] Bob receives DNT data

- Response received for each message sent to the Bob
- Response is not garbled