

# RFID Tunnel Checklist

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- ☐ Reader Emulator operates under 9V (A battery) - Brandon
- ☐ Reader Emulator transfers power to the card - Brandon
- ☐ Data is successfully received from the card and filtered - Brandon
- ☐ Card emulator is able to detect presence of the reader - Vineel
- ☐ Card emulator is able to attenuate the signal output by the reader - Vineel
- ☐ Card emulator is able to successfully convey data to the reader - Vineel
- ☐ Phase locked loop on card emulator works properly (if the PLL is needed) - Vineel
- ☐ Signal is successfully modulated to a higher frequency - Austin
- ☐ Signal is successfully demodulated - Austin
- ☐ Transmission frequency shift keying works properly - Austin
- ☐ RF amplifier properly amplifies signal - Austin
- ☐ Transmission distance of 10 ft - Austin
  
- ☐ Stretch goal: Transmission distance of 50 ft - Austin
- ☐ Stretch goal: System is pocketable
- ☐ Stretch goal: System is bidirectional