

#### Transmitter Wireless Transmission Test Plan:

1. Set up transmitter to pair with base station. Set transmit power at medium.
2. Take transmitter and walk away from base station for 10m in a clear area. Use a AA battery and 5kohm resistor as an analog input if necessary for device to transmit. Ex: connect resistor from analog power point on transmitter back to single ended analog input.
3. Check receiver signal receive level at this base case.
4. Repeat steps 1-3 except with a plastic case surrounding transmitter, and a metal case all around transmitter. If receiver can receive signal through metal and or plastic than our case will not impede transmission.
5. With transmitter in and out of case take transmitter and walk away from base station until receiver loses signal.
6. If any test fails try increasing transmit power and see if test still fails.
7. Goal of test is to ensure our waterproofing plastic case will not impede data transmission.
8. If we can transmit through a metal case (not likely, the reason why phones must have breaks in their metal cases for antenna wires), test superbly passes.