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To: Whom it May Concern

Subject: Calculated Mobile Station Coupling Losses (MCSL) For FCC ID: PWO082

Uplink Center Frequency MHz	707	782	836.5	1732.5	1880-1882.5
MCSL	10	10	10	10	10

Due to the very short distance between the cradle antenna and the mobile device's antenna, the standard calculation for Basic Free Space Path Loss (B2) as outlined in the 935210D03 Signal Booster Measurement KDB is not applicable.

The free space path loss (LP) is typically calculated using the formula:

$$LP = 20\log(f) + 20\log(d) - 27.5$$

Where:

- **LP** = Basic free space path loss (in dB)
- **f** = Frequency in MHz
- **d** = Distance between antennas in meters

In this case, the separation distance (**d**) is 0.01 m, so:

$$LP = 20\log(700) + 20\log(0.01) - 27.5 = 56.9 - 40 - 27.5 = -10.6 \text{ dB}$$

(Note: LP should be expressed as a positive value.)

Sincerely,

Ilesh Patel
Senior Engineering Product Manager
