

**Section 11. Maximum Permissible Exposure**

**MPE estimate is given per 2.1091 of FCC Rules:**

**Calculation Equation:**

$$d = 0.282 \times \frac{10^{\frac{P+G}{20}}}{\sqrt{S}}$$

Where, P(DL)= 33.3 dBm, G=9 dBi (max. Indoor Server Antenna)/16dBi (max. Outdoor Server Antenna), and from §1.1310 Table 1 (B), S = 0.55 mW/cm<sup>2</sup>

Plug all three items into the equation, and yields,

Power Density MPE Limit (mW/ cm <sup>2</sup> )	Output Power (dBm) DL/UL	Server Antenna Gain (dBi) In/Out	Donor Antenna Gain (dBi)	Server MPE Distance (cm) In/Out	Donor MPE Distance (cm)
0.55	33.3/-	9/16	-	50.1/112.1	-

NOTE: No UL link antenna presents.

**For mobile or fixed location transmitters, the minimum separation distance is 20 cm, even if calculations indicate that the MPE distance would be less.**