

## Section 10. 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)= 18.61dBm, G=7dBi (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)	Server Antenna Gain (dBi)	Donor Antenna Gain (dBi)	Server MPE Distance (cm)	Donor MPE Distance (cm)
0.55	18.61	7		7.5	

NOTE:

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