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)= 20.49dBm, G=7dBi (Server Antenna), P(UL)=23.63dBm, G=12dBi (Donor Antenna), and from §1.1310 Table 1 (B), S = 0.55 mW/cm^2

Plug all three items into the equation, and yields,

Power Density MPE Limit (mW/ cm^2)	Output Power DL/UL(dBm)	Server Antenna Gain (dBi)	Donor Antenna Gain (dBi)	Server MPE Distance (cm)	Donor MPE Distance (cm)
0.55	20.49 /23.63	7	12	9	23

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.

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