## 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--max. Output Power, G-Antenna Gain and S-Power Density Factor from §1.1310.

Plug all three items into the equation, and yields,

Power Density	Output	Server	Donor	Server MPE	Donor MPE
MPE Limit	Power	Antenna	Antenna	Distance	Distance
(mW/ cm <sup>2</sup> )	(dBm)	Gain (dBi)	Gain (dBi)	(cm)	(cm)

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.

N/A FOR THIS CASE ----AMPLIFIER ONLY, NO ATENNNA PRESENT.