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Standard : CFR 47 FCC Rules and Regulations Part 15

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7.10 RF Exposure Considerations

Power density is given by:

 $S = EIRP / (4 * PI * D_2)$

where

S: Power density (W/m²)

EIRP: Equivalent Isotropic Radiated Power (W)

D: Separation distance (m)

Power density in units of W/m² is converted to units of mW/cm² by dividing by 10.

Band	Mode	Separation Distance (m)	Maximum Output Power (dBm)	Antenna Gain (dBi)	Power Density (mW/cm²)	FCC Limit (mW/cm²)
$2.4~\mathrm{GHz}$	Bluetooth	0.20	4.49	1.69	0.00083	1.0

Note: FCC Limit: §1.1310 Table 1 (B)

Sample Calculation:

 $S(mW/cm^2) = EIRP / (4 * PI * D^2) / 10$ = 10^((1.69+4.49-30)/10) / (4 * PI * 0.22) / 10 = 0.00083