

MPE CALCULATION

RF Exposure Requirements:	47 CFR §1.1307(b)
RF Radiation Exposure Limits:	47 CFR §1.1310
RF Radiation Exposure Guidelines:	FCC OST/OET Bulletin Number 65
EUT Frequency Band:	5180 - 5240MHz
Limits for General Population/Uncontrolled Exposure in the band of:	1500 - 100,000 MHz
Power Density Limit:	1 mW / cm ² ;

Equation: $S = PG / 4\pi R^2$ or $R = \sqrt{PG / 4\pi S}$
Where, S = Power Density
P = Power Input to Antenna
G = Antenna Gain
R = distance to the center of radiated antenna

Power density Limit = 1mW/cm².

R=20cm

$S = PG / 4\pi R^2$

Frequency	Antenna Gain (dBi)	Max Power (mW)	Distance (cm)	Power density (mW/cm ²)	Total (mW/cm ²)
2412-2462MHz	2	915	20	0.288	0.318
5180-5240MHz	5	47.2	20	0.0297	

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