

RF exposure

The effective output power of the EUT is 1 mW including the gain of the antenna.

The following information provides the minimum separation distance for the EUT, as calculated from **FCC OET 65 Appendix B, Table 1B** "Guidelines for General Population/Uncontrolled Exposure"

This calculation is based on the highest EIRP possible from the EUT considering maximum power and antenna gain. The formulas were used:

GP limit is = 1 mW/cm² for 2440 MHz

Pwatts or ERP = 0.001 Watts

0.001 Watts = 0 dBm

$S = E^2 / 3770 \text{ mW/cm}^2$

$E \text{ or } V/m = (ERP * 30)^{0.5} / d$, (d in meters)

$d = ((ERP * 30) / 3770 * S)^{0.5}$

Freq. MHz	S GP limit mW/cm ²	Maximum RF power dBm	Antenna Gain dBi	ERP watts	Limit E V/m	MSD d meters
2440	1	0	0	0.001	61.4	0.003

GP is the limit for general Population/Uncontrolled Exposure

MSD is the minimum Separation Distance

NOTE: For mobile or fixed location transmitters, minimum separation distance is 20 cm, even if calculations indicate MPE distance is less