

RF Exposure

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

The highest effective output power of the EUT is 144 mW including antenna gain.

1 MINIMUM SEPARATION DISTANCE PER OET 65

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"

Freq. MHz	S GP limit mW/cm ²	Maximum RF power dBm	Antenna Gain dB	EIRP dBm	EIRP watts	MSD d meters
2440	1	21.6	0	21.6	0.144	0.0339

Population/Uncontrolled Exposure
MSD is the minimum Separation Distance

Notes on above table:

(S) GP limit is from OET 65 table 1B

EIRP = Power in dBm + Antenna Gain in dBi

MSD (Minimum Separation Distance) = $((\text{EIRP} \times 30) / 3770 \times S)^{0.5}$

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

2 RF EVALUATION FOR RSS-102E

Since the separation distance between the user and the device is greater than 20 cm and is less than 5 watts, it is exempt from RSS-102.