# RF exposure

The output power of the EUT is 657 mW and the gain of the antenna is 2dBi

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/cm^2 for 2400 MHz
Pwatts*Ggain or ERP = 10^(PdBm-30+GdBi)/10) = 1.047 Watts
S= E^2/3770 mW/cm^2
E 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 | E V/m | MSD d meters |
|---|---|---|---|---|---|---|
| 2240 | 1 | 28.2 | 2 | 1.047 | 61.4 | 0.091 |

GP is the limit for general Population/Uncontrolled Exposure
MSD is the minimum Seperation Distance

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