

## RF exposure

FCC ID: CH8C90327WXX-06

The 2.4 GHz transmitter Peak Power is 24.9 dBm output with 2 dBi antenna gain

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 following formulas were used:

GP limit is = 1 mW/cm<sup>2</sup> above 1.5 GHz

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

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

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

| Freq.<br>MHz | S<br>GP limit<br>mW/cm <sup>2</sup> | PEAK<br>RF power<br>dBm | Antenna<br>Gain<br>dBi | ERP<br>watts | E<br>V/m | MSD<br>d<br>meters |
|--------------|-------------------------------------|-------------------------|------------------------|--------------|----------|--------------------|
| 2473         | 1                                   | 24.9                    | 2                      | 0.490        | 61.4     | 0.062              |

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**

MPE for the transmitter is 20 cm.