

## Appendix A: FCC Part 1.1307, 1.1310, 2.1091, 2.1093: RF Exposure

### MPE Calculation

Using FCC 1.1310 Table 1B as guidance, the maximum permissible RF exposure for an uncontrolled environment is 1.0 mW/cm<sup>2</sup> for the frequencies used in this device (2405 to 2480 MHz). The worst case power is used for the calculation below.

The actual power density for the EUT calculated as shown below.

$$S = (P \times G) / (4 \times \pi \times d^2)$$

where:

S = power density

P = transmitter conducted power in (W)

G = antenna numeric gain

d = distance to radiation center (m)

The maximum conducted power is 14.1 mW

Frequency (MHz)	Antenna Gain (numeric)	Conducted Power (mW)	Separation Distance (cm)	Calculated Power Density (mW/cm <sup>2</sup> )	FCC Power Density Limit (mW/cm <sup>2</sup> )
2405 – 2480	2.5	14.1	20	0.01	1.0

### NOTICE:

#### FCC Radiation Exposure Statement

The calculated power density is below the limit. Nonetheless, the recommended separation distance for this equipment is 20 cm.