

Appendix A: RF Exposure Compliance

Per FCC 1.1310 Table 1B, the maximum permissible RF exposure for an uncontrolled environment is 1 mW/cm² for the frequencies used in this device. The worst case power at the center frequency of the band of operation is used for the calculation below. The power density at a 20 cm distance is shown for each of the antenna options. As shown, the calculated power density is well below the FCC's limit.

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 (mW)

G = antenna numeric gain

d = distance to radiation center (cm)

Frequency	Antenna	Antenna Max Gain (dBi)	Numeric Gain	Power (W)	Separation Distance (cm)	Power Density (mW/cm ²)
2437 MHz	Mobile Mark Collinear Omni	12	15.9	0.1	20	0.3
2437 MHz	Centurion Patch	8.5	7.1	0.1	20	0.1
2437 MHz	Maxrad Yagi	14	25.1	0.1	20	0.5
5.725-5.825 GHz	Gabriel Dish	28	631	0.1	63.2	1.0
5.725-5.825 GHz	Pacific Collinear Omni	12	15.9	0.1	20	0.3
5.25-5.35 GHz	MaxRad Collinear Omni	10	10	0.1	20	0.2
5.25-5.35 GHz	MaxRad Panel	10	10	0.1	20	0.2
5.15-5.25 GHz	Radiall Collinear Omni	6	4	0.1	20	0.1

NOTICE:

Radiation Exposure Statement

This equipment shall only be installed and operated with the antenna types shown above with gains not more than those shown above for each of the antennas, respectively, and installed with a minimum of 20 cm of separation distance between the antenna and all persons during normal operation, with the exception of the Gabriel 28 dBi antenna which requires a separation of 63.2 cm between the antenna and all persons during normal operation.