

Appendix A: RF Exposure Compliance

Using FCC 1.1310 Table 1B as guidance, the maximum permissible RF exposure for an uncontrolled environment is 0.32 mW/cm^2 for the center of the frequencies used in this device (480 to 490 MHz). The worst case power at the center frequency of the band of operation 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 antenna used with this device is an 8 dBi discrete antenna.

Frequency (MHz)	Antenna Gain (dBi)	Conducted Power* (W)	Separation Distance (cm)	Power Density (mW/cm^2)
485	8	1.26	0.445	0.32

* max composite conducted power

NOTICE:

Radiation Exposure Statement

The calculated separation is 45 cm. All users must stay greater than 45 cm away from the antenna. The client has selected a more conservative distance of 60 cm.