

## 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 mW/cm<sup>2</sup> for the frequency used in this device. The worst case power as shown in section 5 of this report is used for the calculation below.

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

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

or

$$d = \sqrt{(P \cdot G / 4 \cdot \pi \cdot S)}$$

where:

S = power density (mW/cm<sup>2</sup>)

P = transmitter conducted power in (mW)

G = antenna numeric gain

d = distance to radiation center (cm)

Frequency (MHz)	Antenna Gain (dBi)	Conducted Power (W)	Separation Distance (cm)	Calculated Power Density (mW/cm <sup>2</sup> )	Power Density Limit (mW/cm <sup>2</sup> )
34600	30	0.0002	20	0.03	1.0

### Notice:

#### Radiation Exposure Statement

The calculated power density for this equipment at 20 cm is well below the FCC limit. Therefore, the minimum safe distance for this equipment for uncontrolled environments is 20 cm.