

Appendix A: FCC Part 1.1307, 1.1310, 2.1091, 2.1093; IC RSS-Gen: RF Exposure

Using FCC 1.1310 Table 1B as guidance, the maximum permissible RF exposure for an uncontrolled environment is 0.6 mW/cm² for the frequencies used in this device (903.0 to 927.0 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)

Frequency (MHz)	Antenna Gain (dBi)	Conducted Power (W)	Calculated Power Density (mW/cm ²)	Power Density Limit (mW/cm ²)
903.0	3	0.010	0.004	0.6

Notice:

Radiation Exposure Statement

The calculated power density is well below the limit. Nonetheless, the minimum separation distance for this equipment, which is a mobile/fixed device, is 20 cm.