

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

Using FCC 1.1310 Table 1B as guidance, the maximum permissible RF exposure for an uncontrolled environment is 1 mW/cm² for the frequencies used in this device (5730 to 5825 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)	Antenna Gain (numeric)	Conducted Power (W)	Separation Distance (cm)	Power Density (mW/cm ²)
2415 – 2460	3.2	2.09	0.246	20	0.1

Radiation Exposure Statement

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