

90M

RF Exposure Requirements

RF Exposure Requirements: §1.1307(b)(1) and §1.1307(b)(2): Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines.

RF Radiation Exposure Limit: §1.1310: As specified in this section, the Maximum Permissible Exposure (MPE) Limit shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in Sec. 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of Sec. 2.1093 of this chapter.

MPE Limit Calculation: EUT's operating frequencies @ 5850-5925 MHz; highest conducted power = *19.01dBm* (avg) therefore, **Limit for Uncontrolled exposure: 1 mW/cm² or 10 W/m²**

FCC									
Frequency (MHz)	Con. Pwr. (dBm)	Con. Pwr. (mW)	Ant. Gain (dBi)	Ant. Gain numeric	Pwr. Density (mW/cm ²)	Limit (mW/cm ²)	Margin	Distance (cm)	Result
5860	16.55	45.186	16	39.811	0.35787	1	0.64213	20	Pass

Table 1. RF Hazards

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4980	22.85	192.752	9	7.943	0.3046	1	0.6954	20	Pass