

5 FCC §15.407(f), §1.1310, § 2.1091 - Maximum Permissible Exposure (MPE)

5.1 Applicable Standard

According to §15.407(f) and §1.1310, U-NII devices are subject to the radio frequency radiation exposure requirements specified in §1.1307(b), and 2.1091 of this chapter, as appropriate. All equipment shall be considered to operate in a "general population/uncontrolled" environment. Applications for equipment authorization of devices operating under this section must contain a statement confirming compliance with these requirements for both fundamental emissions and unwanted emissions. Technical information showing the basis for this statement must be submitted to the Commission upon request.

5.2 RF Exposure Evaluation Result

MPE evaluation for single transmission:

Mode	Frequency Range (MHz)	Antenna Gain		Target Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
5G WIFI B1	5150-5250	6.5	4.467	18	63.096	20	0.0561	1
5G WIFI B2	5250-5350	6.5	4.467	18	63.096	20	0.0561	1
5G WIFI B3	5470-5725	6.5	4.467	18	63.096	20	0.0561	1
5G WIFI B4	5725-5850	6.5	4.467	17	50.119	20	0.0445	1

Note: the maximum antenna gain was used for evaluation.

Result: MPE evaluation of single and simultaneous transmission meet 20cm the requirement of standard.