

## **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 <sup>2</sup> )	MPE Limit (mW/cm <sup>2</sup> )
		(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.