

## 6.12. Public Exposure to Radio Frequency Energy Levels (15.407(f))

Channel	MPE Distance (cm)	DUT Output Power (dBm)	DUT Antenna Gain (dBi)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
	(1)	(2)	(3)	(4)	(5)	
36	20	-0.60	5.54	0.0006	1	Compliant
40	20	1.10	5.54	0.0009	1	Compliant
44	20	1.37	5.54	0.0010	1	Compliant
149	20	18.47	5.06	0.045	1	Compliant
153	20	18.58	5.06	0.046	1	Compliant
161	20	18.18	5.06	0.042	1	Compliant

$$PD = \frac{OP + AG}{(4 \times \pi \times d^2)}$$

1.	Reference CFR 2.1093(b): For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.
2.	Sections 6.1.1 and 6.1.2 .of this test report.
3.	Data supplied by the client.
4.	Power density is calculated from field strength measurement and antenna gain.
5.	Reference CFR 1.1310, Table 1: Limits for Maximum Permissible Exposure (MPE), Section (B): Limits for General Population/Uncontrolled Exposure.

## 6.13. Frequency Stability (15.407(g))

Requirement: Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

### 6.13.1. Temperature

Channel	Channel Freq.	Temp.	Meas. Frequency	Deviation		Limit	Result
	GHz	Deg. C	GHz	kHz	%	%	
40	5200	0	5200.0500	50.000	0.000962	0.02	Compliant
		20	5200.0500	50.000	0.000962	0.02	Compliant
		40	5200.0750	75.000	0.001442	0.02	Compliant

### 6.13.2. Voltage

Channel	Channel Freq.	Operating Voltage <sup>1</sup>	Meas. Frequency	Deviation		Limit	Result
	GHz		GHz	kHz	%	%	
40	5200	102	5200.0500	50.000	0.000962	0.02	Compliant
		120	5200.0500	50.000	0.000962	0.02	Compliant
		138	5200.0000	0.000	0.000000	0.02	Compliant

<sup>1</sup> DUT AC power adapter input voltage was varied ±15%.