

6. Measurement Data (continued)

6.11. Public Exposure to Radio Frequency Energy Levels (15.247(i) (1.1307 (b)(1))

RSS-GEN 5.5, RSS 102

20 MHz Signal Bandwidth

Channel	MPE Distance (cm)	DUT Output Power (dBm)	DUT Antenna Gain (dBi)	Power Density		Limit (mW/cm <sup>2</sup> )	Result
				(mW/cm <sup>2</sup> )	(W/m <sup>2</sup> )		
	(1)	(2)	(3)	(4)		(5)	
1	20	24.81	3.95	0.149	1.4937	1	Compliant
6	20	25.52	3.95	0.176	1.7590	1	Compliant
11	20	23.16	3.95	0.102	1.0215	1	Compliant
149	20	17.89	5.06	0.039	0.3924	1	Compliant
153	20	18.46	5.06	0.045	0.4474	1	Compliant
161	20	20.12	5.06	0.066	0.6557	1	Compliant

40 MHz Signal Bandwidth

Channel	MPE Distance (cm)	DUT Output Power (dBm)	DUT Antenna Gain (dBi)	Power Density		Limit (mW/cm <sup>2</sup> )	Result
				(mW/cm <sup>2</sup> )	(W/m <sup>2</sup> )		
	(1)	(2)	(3)	(4)		(5)	
3	20	25.21	3.95	0.164	1.6378	1	Compliant
6	20	25.54	3.95	0.177	1.7671	1	Compliant
9	20	24.53	3.95	0.140	1.4004	1	Compliant
151	20	21.18	5.06	0.084	0.8370	1	Compliant
159	20	20.11	5.06	0.065	0.6542	1	Compliant

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

- PD = Power Density
- OP = DUT Output Power
- AG = DUT Antenna Gain
- d = MPE Distance

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. Section 6.1.1 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. Measurement Data (continued)**

**6.10. Public Exposure to Radio Frequency Energy Levels (15.407(f))**

20 MHz Signal Bandwidth

Channel	MPE Distance (cm)	DUT Output Power (dBm)	DUT Antenna Gain (dBi)	Power Density		Limit (mW/cm <sup>2</sup> )	Result
				(mW/cm <sup>2</sup> )	(W/m <sup>2</sup> )		
	(1)	(2)	(3)	(4)		(5)	
36	20	15.61	5.54	0.0259	0.2590	1	Compliant
40	20	15.39	5.54	0.0246	0.2462	1	Compliant
44	20	15.22	5.54	0.0237	0.2368	1	Compliant
149	20	17.89	5.06	0.0392	0.3924	1	Compliant
153	20	18.46	5.06	0.0447	0.4474	1	Compliant
161	20	20.12	5.06	0.0656	0.6557	1	Compliant

40 MHz Signal Bandwidth

Channel	MPE Distance (cm)	DUT Output Power (dBm)	DUT Antenna Gain (dBi)	Power Density		Limit (mW/cm <sup>2</sup> )	Result
				(mW/cm <sup>2</sup> )	(W/m <sup>2</sup> )		
	(1)	(2)	(3)	(4)		(5)	
36 (38)	20	11.58	5.54	0.0103	0.1025	1	Compliant
44 (46)	20	12.45	5.54	0.0125	0.1252	1	Compliant
149 (151)	20	21.18	5.06	0.0837	0.8370	1	Compliant
157 (159)	20	20.11	5.06	0.0654	0.6542	1	Compliant

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

PD = Power Density  
 OP = DUT Output Power  
 AG = DUT Antenna Gain  
 d = MPE Distance

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. Section 6.1.1 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.