

13 RF EXPOSURE

13.1. Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

13.2. Table of Average Power:

802.11b

Cable loss = 0.4		Average Power Output (dBm)					Required Limit
CH	Frequency (MHz)	Data Rate					
		1	2	5.5	11		
1	2412	10.36	10.35	10.36	10.26	1 Watt = 30 dBm	
6	2437	10.18	10.36	10.38	10.35	1 Watt = 30 dBm	
11	2462	10.13	10.12	10.31	10.32	1 Watt = 30 dBm	

802.11g

Cable loss = 0.4		Average Power Output (dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		6	9	12	18	24	36	48	54	
1	2412	9.41	9.40	9.44	9.42	9.46	9.42	9.41	9.40	1 Watt = 30 dBm
6	2437	9.46	9.42	9.46	9.38	9.43	9.44	9.43	9.40	1 Watt = 30 dBm
11	2462	9.32	9.34	9.34	9.34	9.35	9.32	9.32	9.30	1 Watt = 30 dBm

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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802.11n_20M

Cable loss = 0.4		Average Power Output (dBm)								Required Limit
CH	Data Rate	Data Rate								
		7.2	14.4	21.7	28.9	43.3	57.8	65	72.2	
1	2412	6.32	6.38	6.37	6.42	6.41	6.37	6.35	6.38	1 Watt = 30 dBm
6	2437	6.38	6.35	6.38	6.37	6.37	6.42	6.39	6.37	1 Watt = 30 dBm
11	2462	6.30	6.31	6.31	6.32	6.32	6.31	6.28	6.32	1 Watt = 30 dBm

13.3. RF conducted output power vs EIRP output power

– Higher of power is used for the calculation:

802.11b:

10.38dBm + 0dB = 10.38dBm (*Conducted power is equal to EIRP Power!*)

10.38dBm = $10^{(10.38/10)}$ = 10.91mW

802.11g

9.46dBm + 0dB = 9.46dBm (*Conducted power is equal to EIRP Power!*)

9.46dBm = $10^{(9.46/10)}$ = 8.83mW

802.11n_20M

6.42dBm + 0dB = 6.42dBm (*Conducted power is equal to EIRP Power!*)

6.42dBm = $10^{(6.42/10)}$ = 4.39mW

13.4. Comparison Result:

This is a portable device and the Max peak output power is 10.38dBm (10.91mW) lower than low threshold 60/(fGHz) W (24.88mW), d<2.5cm in general population category ;

Thus, the SAR measurement is not necessary.

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