

14 RF EXPOSURE

14.1. 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.

14.2. Table of Average Power:

802.11b

Cable loss = 0		Average Power Output(dBm)	Required Limit
CH	Frequency (MHz)		
1	2412	9.32	1 Watt = 30 dBm
6	2437	9.22	1 Watt = 30 dBm
11	2462	8.92	1 Watt = 30 dBm

802.11g

Cable loss = 0		Average Power Output(dBm)	Required Limit
CH	Frequency (MHz)		
1	2412	9.67	1 Watt = 30 dBm
6	2437	9.54	1 Watt = 30 dBm
11	2462	9.25	1 Watt = 30 dBm

802.11n_20M

Cable loss = 0		Average Power Output(dBm)	Required Limit
CH	Frequency (MHz)		
1	2412	6.13	1 Watt = 30 dBm
6	2437	5.92	1 Watt = 30 dBm
11	2462	5.60	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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14.3. RF conducted output power vs EIRP output power

– Higher of power is used for the calculation:

802.11b:

$$9.32\text{dBm} + (-1.5)\text{dB} = 7.82\text{dBm}$$

$$7.82\text{dBm} = 10^{\frac{7.82}{10}} = \mathbf{6.053\text{mW}}$$

802.11g

$$9.67\text{dBm} + (-1.5)\text{dB} = 8.17\text{dBm}$$

$$8.17\text{dBm} = 10^{\frac{8.17}{10}} = \mathbf{6.561\text{mW}}$$

802.11n_20M

$$6.13\text{dBm} + (-1.5)\text{dB} = 4.63\text{dBm}$$

$$4.63\text{dBm} = 10^{\frac{4.63}{10}} = \mathbf{2.904\text{mW}}$$

14.4. Comparison Result:

This is a portable device and the Max peak output power is 9.67dBm (9.27mW) 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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