

7. RF Exposure Requirements

7.1 Test Equipment

Please refer to Section 10 this report.

7.2 Limit

According to FCC 15.247(e)(i) and FCC 1.1307(b)(1), Systems operating under provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commissions guidelines.

According to KDB 447498 D01 General RF Exposure v05, section 4.3.1
SAR Test Exclusion Thresholds for 100 MHz-6GHz and <=5mm

Frequency Range		Maximum measured transmitter power frequency(MHz)	SAR Limitation (mW)
Low Frequency(MHz)	High Frequency(MHz)		
2412	2462	2462	10

7.3 Test Result

Product	: Wireless Adapter	Test Mode	: IEEE 802.11b/g/n
Test Item	: RF Exposure	Temperature	: 25 °C
Test Voltage	: DC 5V (From Host)	Humidity	: 56%RH
Test Result	: PASS		

RF Exposure Requirements	Compliance with FCC Rules
<p>S=PG/4πR²</p> <p>Where: S=Power density P=Power input to antenna G=Power gain of the antenna relative to an isotropic radiator R=Distance to the center of radiation of the antenna</p>	<p>Maximum output power at antenna input terminal: 5.90 dBm = 3.52 mW (802.11b, 2462MHz) 4.99 dBm = 3.16 mW (802.11g, 2437MHz) 5.94 dBm = 3.92 mW (802.11n/20MHz, 2412MHz) 4.65 dBm = 2.92 mW (802.11n/40MHz, 2452MHz) Prediction distance: <=5mm Antenna gain : 2.0 dBi SAR Test Exclusion Threshold is 10 mW</p> <p>(802.11b, 2462MHz):8.71 mW (802.11g, 2437MHz):7.06 mW (802.11n/20MHz, 2412MHz):8.78 mW (802.11n/40MHz, 2452MHz):6.54 mW</p> <p>The max. output power E.I.R.P < 10 mW Conclusion: No SAR is required.</p>