

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 <=50mm

Frequency Range		Maximum measured transmitter power frequency(MHz)	SAR Limitation (mW)
Low Frequency(MHz)	High Frequency(MHz)		
2402	2480	2402	10

7.3 Test Result

Product	: Wi-Fi Video Scope	Test Mode	: IEEE 802.11b/g/n
Test Item	: RF Exposure	Temperature	: 25 °C
Test Voltage	: DC 6V (Power by battery)	Humidity	: 56%RH
Test Result	: PASS		

RF Exposure Requirements	Compliance with FCC Rules
<p>EIRP=PxG</p> <p>Where:</p> <p>P=Power input to antenna</p> <p>G=Power gain of the antenna relative to an isotropic radiator</p>	<p>Maximum output power at antenna input terminal:</p> <p>6.44 dBm = 4.41 mW (802.11b, 2462MHz)</p> <p>6.21 dBm = 4.18 mW (802.11g, 2462MHz)</p> <p>6.87 dBm = 4.86 mW (802.11n/20MHz, 2462MHz)</p> <p>5.13 dBm = 3.26 mW (802.11n/40MHz, 2452MHz)</p> <p>Prediction distance: <=50mm</p> <p>Antenna gain : 2.0 dBi</p> <p>SAR Test Exclusion Threshold is 10 mW</p> <p>(802.11b, 2462MHz):6.98 mW</p> <p>(802.11g, 2462MHz):6.62 mW</p> <p>(802.11n/20MHz, 2462MHz):7.71 mW</p> <p>(802.11n/40MHz, 2452MHz):5.16 mW</p> <p>The max. output power E.I.R.P < 10 mW</p> <p>Conclusion: No SAR is required.</p>