

## RADIO FREQUENCY EXPOSURE

### LIMIT

Systems operating under the 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 Commission's guidelines. See §15.247(b)(4) and §1.1307(b)(1) of this chapter.

### EUT Specification

<b>EUT</b>	Wifi+BT combo card
<b>Model</b>	WLU6300B(T-RoHS)
<b>Frequency Band (Operating)</b>	WLAN 802.11b/g/n(20M):2412.0 MHZ~2462.0 MHz WLAN 802.11n(40MHz):2422.0 MHz ~2452.0 MHz Bluetooth:2.402GHz~2.480GHz
<b>Device Category</b>	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
<b>Exposure Classification</b>	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm <sup>2</sup> ) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm <sup>2</sup> )
<b>Antenna Diversity</b>	<input type="checkbox"/> Single antenna <input checked="" type="checkbox"/> Multiple antennas <input checked="" type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input type="checkbox"/> Tx/Rx diversity
<b>WiFi Max. Output Power</b>	21.27dBm
<b>Bluetooth Max. Output Power (Declare Power by Manufacturer)</b>	9dBm
<b>WiFi+Bluetooth admix Power</b>	21.52dBm(141.91mW)
<b>Antenna Gain (Max)</b>	2.0dBi
<b>Evaluation Applied</b>	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation
<b>Note:</b>	
1. The maximum mix output power is 21.52dBm (141.91mW) with 2.0 numeric antenna gain.	
2. For mobile or fixed location transmitters, no SAR consideration applied. The minimum separation generally be used is at least 20 cm, even if the calculations indicate that the MPE distance would be lesser.	

### TEST RESULT

No non-compliance noted.

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### Calculation

$$S = \frac{P \times G}{4\pi d^2}$$

Given (Equation 1)

Where d = distance in cm

P = Power in mW

G = Numeric antenna gain

S = Power Density in mW / cm<sup>2</sup>

### Maximum Permissible Exposure

EUT Output Power=141.91mW

Numeric antenna gain=2.0

Substituting the MPE safe distance using d=20 cm into **Equation 1** :

Yields

The power density S =  $141.91 \times 2.0 / (4\pi \times 400) \text{ cm}^2 = 0.0565 \text{ mW/cm}^2$

(For mobile or fixed location transmitters, the maximum power density is 1.0 mW / cm<sup>2</sup> even if the calculation indicates that the power density would be larger.)

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