5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

According to §1.1307(b)(3)(i)

(B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

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$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \ cm} (d/20 \ cm)^x & d \le 20 \ cm \\ ERP_{20 \ cm} & 20 \ cm < d \le 40 \ cm \end{cases}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20~em}\sqrt{f}}\right)$$
 and f is in GHz;

and

$$ERP_{20\ cm}\ (\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \le f < 1.5\ \text{GHz} \\ \\ 3060 & 1.5\ \text{GHz} \le f \le 6\ \text{GHz} \end{cases}$$

d = the separation distance (cm);

5.2 Measurement Result

Operation Modes	Frequency (MHz)	Distance (mm)	(mW)	(dBm)	Maximum Conducted Power including Tune-up Tolerance (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Exemption
WLAN 2.4G	2412-2462	200	3060	34.86	25	4.83	27.68	586	Compliant

Note: The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.

Result: The device compliant the Exemption at 20cm distances.

==== END OF REPORT ====