## 12. Radio Frequency Exposure

## 12.1 Applicable Standards

	The available m	aximum	n tim	ie-avera	aged powe	er is	no more	than 1 mW,	
§1.1307(b)(3)(i)(A)	regardless of separation distance.								
	ERP is below a threshold calculated based on the distance , R between the person and antenna / radiating structure, where R > $\lambda$ /2 $\pi$ .  TABLE B.1—THRESHOLDS FOR SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION RF Source Minimum Distance Threshold								
		Freque			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	u 1	ristance	ERP	
\$1.1307(b)(3)(i)(c)		f <sub>L</sub> MHz		∫ <sub>H</sub> MHz	$\lambda_{L} / 2\pi$		$\lambda_{\mathrm{H}}$ / $2\pi$	W	
§1.1307(b)(3)(1)(c)		0.3	_	1.34	159 m	_	35.6 m	1,920 R <sup>2</sup>	
		1.34	_	30	35.6 m	_	1.6 m	3,450 R <sup>2</sup> /f <sup>2</sup>	
		30	_	300	1.6 m	_	159 mm	3.83 R <sup>2</sup>	
		300	_	1,500	159 mm	_	31.8 mm	0.0128 R <sup>2</sup> f	
		1,500	_	100,00	31.8 mm	_	0.5 mm	19.2R <sup>2</sup>	
	Subscripts L and H are low and high; λ is wavelength. From § 1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.								
	Device operates between 300 MHz and 6 GHz and the maximum time-averaged								
	power or effective radiated power (ERP), whichever is greater, <= Pth								
	$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 cm} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 cm} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$								
_	Where								
§ 1.1307(b)(3)(i)(B).		n GHz;							
	and								
				ERP <sub>20</sub>	<sub>cm</sub> (mW) =	${204 \choose 306}$	0.3 GH 0 1.5 GH	$z \le f < 1.5  \text{GHz}$ $z \le f \le 6  \text{GHz}$	
	d = the separation distance (cm);								

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## 12.2 EUT Specification

<u> </u>	
	☐ WLAN: 2412MHz ~ 2462MHz
	☐ WLAN: 5150MHz ~ 5250MHz
Frequency band	☐ WLAN: 5250MHz ~ 5350MHz
(Operating)	☐ WLAN: 5470MHz ~ 5725MHz
	☐ WLAN: 5725MHz ~ 5850MHz
	⊠ Bluetooth: 2402MHz ~ 2480MHz
Device category	☐ Portable (<20cm separation)
Device category	
	Single antenna
	☐ Multiple antennas
Antenna diversity	☐ Tx diversity
	Rx diversity
	☐ Tx/Rx diversity
	Blanket 1 mW Blanket Exemption
Evaluation applied	MPE-based Exemption
	SAR-based Exemption
Remark:	
	ed output power is <u>6.62dBm (4.592mW)</u> at <u>2402MHz</u> (with <u>3dBi antenna</u>
<u>gain</u> .)	

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## 12.3 Result

Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Antenna Gain(dBi)	Max.Tune up e.r.p. Power (dBm)	Max. Tune up e.r.p power (mW)	Limit (mW)	
2402-2480	6.62	7.12	3.00	7.97	6.27	3060	

No non-compliance noted.

-----THE END OF REPORT-----

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