12. Radio Frequency Exposure

12.1 Applicable Standards

	The available maximum time-averaged power is no more than 1 mW,								
§1.1307(b)(3)(i)(A)	regardless of separation distance.								
							LF SOURCES	person and t	
§1.1307(b)(3)(i)(c)		0.3		MHz 1.34	159 m		35.6 m	1,920 R ²	-
		1.34		30	35.6 m	_	1.6 m	$3,450 \text{ R}^2/f^2$	1
		30		300	1.6 m	_	159 mm	3.83 R ²	1
		300	_	1,500	159 mm	_	31.8 mm	0.0128 R ² f	1
		1,500	-	100,00	31.8 mm	-	0.5 mm	19.2R ²	
	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).	$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right)$ 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);								

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12.1 EUT Specification

<u> </u>						
	☐ WLAN: 2412MHz ~ 2462MHz					
	☐ WLAN: 5150MHz ~ 5250MHz					
Frequency band	☐ WLAN: 5250MHz ~ 5350MHz					
(Operating)						
	⊠ Bluetooth: 2402MHz ~ 2480MHz					
Device category	☐ Portable (<20cm separation)					
	Single antenna					
Antenna diversity	☐ Tx diversity					
	Rx diversity					
	☐ Tx/Rx diversity					
Evaluation applied	☐ Blanket 1 mW Blanket Exemption					
	MPE-based Exemption					
	☐ SAR-based Exemption					
Remark:						
The maximum conducted output power is 4.96dBm (3.133mW) at 2480MHz (with 4.45dBi						
antenna gain.)						

12.2 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	4.96	5.46	4.45	7.76	5.97	3060

No non-compliance noted.

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