12. Radio Frequency Exposure

12.1 Applicable Standards

	The available m	ovimum	tim	o avora	and now	or ic	no moro	than 1 m\M	
C4 4207(b)(2)(i)(A)	The available maximum time-averaged power 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 t antenna / radiating structure, where R > λ /2 π .								
\[\] \[\]	1	RF Sou	rce		Minimum Distance			Threshold	ĺ
		Frequer	ıcy					ERP	_
		f _L MHz		∫ _H MHz	$\lambda_{\rm L}$ / 2π		$\lambda_{\rm H}$ / 2π	W	
3 (-)(-)()(-)		0.3	_	1.34	159 m	_	35.6 m	1,920 R ²	
		1.34	_	30	35.6 m	_	1.6 m	$3,450 \text{ R}^2/f^2$	
		30	_	300	1.6 m	_	159 mm	3.83 R ²	_
		300	_	1,500	159 mm	_	31.8 mm	0.0128 R ² f	4
		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								
	$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 cm} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 cm} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$								
	$(ERP_{20 \ cm})$ 20 cm $< d \le 40 \ cm$								
∑ § 1.1307(b)(3)(i)(B).	Where								
	$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right)$ 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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12.2 EUT Specification

	☐ WLAN: 2412MHz ~ 2462MHz
Frequency band	
(Operating)	☐ WLAN: 5470MHz ~ 5725MHz
· · · · · · · · · · · · · · · · · · ·	☐ WLAN: 5725MHz ~ 5850MHz
	Bluetooth: 2402MHz ~ 2480MHz
Doving actorion	☐ Portable (<20cm separation)
Device category	
	Single antenna
Antenna diversity	☐ Tx diversity
	☐ Rx diversity
	☐ Tx/Rx diversity
	☐ Blanket 1 mW Blanket Exemption
Evaluation applied	
	☐ SAR-based Exemption
Remark:	
	ed output power is <u>6.21dBm (4.178mW)</u> at <u>2440MHz</u> (with 3.00dBi
antenna gain.)	

12.3 Result

Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Antenna Gain(dBi)	up e.r.p.	Max. Tune up e.r.p power (mW)	Limit (mW)
2402-2480	6.21	6.71	3.00	7.56	5.70	3060

No non-compliance noted.

TH	OF D	•

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