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.								
	ERP is below a threshold calculated based on the distance , R between the person and tantenna / radiating structure, where R > λ /2 π . TABLE B.1—THRESHOLDS FOR SINGLE RF SOURCES								
	1				TINE ENVIRONMENTAL F Minimum Distance				
		f _L MHz	ľ	∫ _H MHz	$\lambda_L / 2\pi$		$\lambda_{\rm H}$ / 2π	W	
§1.1307(b)(3)(i)(c)		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	_	1,500 100,00	159 mm 31.8 mm	-	31.8 mm 0.5 mm	0.0128 R ² f	
		1,500	_	0	31.6 11111	_	0.5 11111	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 b	etween	300	MHz ar	nd 6 GHz a	and	the maxim	um time-averaged	
	power or effective radiated power (ERP), whichever is greater, <= Pth								
	P _{th} (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).	where $x = -\log_{10}\left(\frac{60}{ERP_{20~cm}\sqrt{f}}\right) \text{ and } f \text{ is in GHz};$ and								
				ERP ₂₀	_{cm} (mW) =	\bigg\{ 204 \\ 306 \end{array}	0,3 GH 60 1.5 GH	$z \le f < 1.5 ext{GHz}$ $z \le f \le 6 ext{GHz}$	
	d = the separation distance (cm);								

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12.2 EUT Specification

	☐ WLAN: 2412MHz ~ 2462MHz					
Frequency band						
(Operating)						
	⊠ Bluetooth: 2402MHz ~ 2480MHz					
Davisa estadory	☐ Portable (<20cm separation)					
Device category						
Antenna diversity	Single antenna					
	☐ Tx diversity					
	Rx diversity					
	☐ Tx/Rx diversity					
	☐ Blanket 1 mW Blanket Exemption					
Evaluation applied						
	☐ SAR-based Exemption					
Remark:						
	ed output power is <u>8.23dBm (6.653mW)</u> at <u>2480MHz</u> (with <u>1.60dBi</u>					
antenna gain.)						

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	8.23	8.73	1.60	8.18	6.58	3060

No non-compliance noted.

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