

12. Radio Frequency Exposure

12.1 Applicable Standards

	The available m	aximum	n tim	e-avera	ged 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 t antenna / radiating structure, where R > λ /2 π . TABLE B.1—THRESHOLDS FOR SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION								
		RF Source Frequency			Minimum Distance			Threshold ERP	1
		f _L MHz		<i>f</i> н MHz	λ_L / 2π		$\lambda_{\rm H}$ / 2π	W	-
§1.1307(b)(3)(i)(c)		0.3	_	1.34	159 m	_	35.6 m	1,920 R ²	1
		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	$0.0128 \text{ R}^2 f$]
		1,500	-	100,00 0	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 b	between	300	MHz ar	d 6 GHz a	and	the maxim	um time-averag	ged
	Device operates between 300 MHz and 6 GHz and the maximum time-averaged power or effective radiated power (ERP), whichever is greater, <= Pth								
	$P_{th} (mW) = \begin{cases} ERP_{20 cm} (d/20 cm)^{x} & d \le 20 cm \\ \\ ERP_{20 cm} & 20 cm < d \le 40 cm \end{cases}$								
	Where								
⊠ § 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) =	$\binom{204}{306}$	0 <i>f</i> 0.3 GH 0 1.5 GH	$z \leq f < 1.5~ ext{GHz}$ $z \leq f \leq 6~ ext{GHz}$	
	d = the separation distance (cm);								

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12.2 EUT Specification

	🗌 WLAN: 2412MHz ~ 2462MHz					
	🗌 WLAN: 5150MHz ~ 5250MHz					
Frequency band	🗌 WLAN: 5250MHz ~ 5350MHz					
(Operating)	🗌 WLAN: 5470MHz ~ 5725MHz					
	🗌 WLAN: 5725MHz ~ 5850MHz					
	Bluetooth: 2402MHz ~ 2480MHz					
Dovice enterony	Portable (<20cm separation)					
Device category	Mobile (>20cm separation)					
Antenna diversity	Single antenna					
	Multiple antennas					
	Tx diversity					
	Rx diversity					
	Tx/Rx diversity					
	Blanket 1 mW Blanket Exemption					
Evaluation applied	MPE-based Exemption					
	SAR-based Exemption					
Remark:						
The maximum conducted output power is <u>10.42dBm (11.015mW)</u> at <u>2402MHz</u> (with <u>1.00dBi</u>						
<u>antenna gain</u> .)						

12.3 Result

Modulation Type	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)
GFSK(1Mbps)	2402-2480	10.42	10.92	1.00	9.77	9.48	3060

No non-compliance noted.

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