

## 14. Radio Frequency Exposure

	The available maximum time-averaged power is no more than 1 mW,								
§1.1307(b)(3)(i)(A)	regardless of separation distance.								
	SUBJECT TO ROUT       RF Source       Frequency       fL MHz     fH       MHz     MHz			> $\lambda / 2 \pi$ . RESHOLDS FOR SINGLE R <u>TINE ENVIRONMENTAL E</u> <u>Minimum Distance</u> $\lambda_L / 2\pi$ $\lambda_H / 2\pi$			F SOURCES EVALUATION Threshold ERP W	person and t	
		0.3	-	1.34 30	159 m 35.6 m	_	35.6 m 1.6 m	1,920 R <sup>2</sup> 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 0	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								
	$P_{th} (mW) = \begin{cases} ERP_{20 cm} (d/20 cm)^{x} & d \le 20 cm \\ ERP_{20 cm} & 20 cm < d \le 40 cm \end{cases}$								
	Where								
⊠ § 1.1307(b)(3)(i)(B).	$x = -\log_{10}\left(rac{60}{ERP_{20} cm\sqrt{f}} ight)$ 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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## 14.1 EUT Specification

	🗌 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)				
	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>5.99dBm (3.972mW)</u> at <u>2480MHz</u> (with <u>2.1dBi</u>					
antenna gain.)					

## 14.2 Result

Modulation Mode	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	2402-2480	5.50	6.00	2.1	5.95	3.94	3060
π/4-DQPSK	2402-2480	5.97	6.47	2.1	6.42	4.39	3060
8DPSK	2402-2480	5.99	6.49	2.1	6.44	4.41	3060

No non-compliance noted.

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