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 th	g structu TAI SUBJ	Ire, v	where R	> λ /2 RESHOLDS TINE ENVI	π. FOF RON	R SINGLE F IMENTAL 1	F SOURCES	rson and
[] [] []		RF Source Frequency			Minimum Distance			Threshold ERP	
		f _L MHz		f _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	159 mm	_	31.8 mm	$0.0128 \text{ R}^2 f$	
		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 b	etween	300	MHz ar	nd 6 GHz a	and	the maxim	num time-average	ed
	power or effective radiated power (ERP), whichever is greater, <= Pth								
⊠ § 1.1307(b)(3)(i)(B).	$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 cm} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 cm} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$								
	Where								
	$x = -\log_{10}\left(\frac{60}{ERP_{20~cm}\sqrt{f}}\right)$ and f is in GHz;								
	and								
	$ERP_{20 cm} \text{ (mW)} = \begin{cases} 2040 f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$								
	d = the separation distance (cm);								

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12.2 EUT Specification

•					
	☐ WLAN: 2412MHz ~ 2462MHz				
Frequency band					
(Operating)	── WLAN: 5470MHz ~ 5725MHz				
· · · · · · · · · · · · · · · · · · ·					
	Bluetooth: 2402MHz ~ 2480MHz				
Davies autonomi	Portable (<20cm separation)				
Device category	Mobile (>20cm separation)				
	Single antenna				
Antenna diversity	☐ 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 8.37dBm (6.871mW) at 2402MHz (with -1.50dBi					
antenna gain.)					

12.3 Result

Channel	Max. Conducted	Max. Tune up	A	Max.Tune up	Max. Tune up	l impit	
Frequency	output power	power	Antenna	e.r.p. Power	e.r.p power	Limit	
(MHz)	(dBm)	(dBm)	Gain(dBi)	(dBm)	(mW)	(mW)	
2440	8.37	8.87	-1.5	5.22	3.33	3060	

No non-compliance noted.

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