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 an antenna / radiating structure, where R > λ /2 π . TABLE B.1—THRESHOLDS FOR SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION RF Source Minimum Distance Threshold ERP								
		$f_{\rm L}$ MHz $f_{\rm H}$			$\lambda_L / 2\pi$		$\lambda_{\rm H}$ / 2π	W	
§1.1307(b)(3)(i)(c)		0.2		MHz	150 m		25.6 m	1,920 R ²	
		1.34	Ι-	1.34	159 m 35.6 m	_	35.6 m 1.6 m	$\frac{1,920 \text{ R}^2}{3,450 \text{ R}^2/f^2}$	
		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 between 300 MHz and 6 GHz and the maximum time-averaged								
	power or effective radiated power (ERP), whichever is greater, <= Pth								
	$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 cm} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 cm} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$								
_	Where								
∑ § 1.1307(b)(3)(i)(B).	$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right)$ 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

<u> </u>							
	☐ WLAN: 2412MHz ~ 2462MHz						
	☐ WLAN: 5150MHz ~ 5250MHz						
Frequency band							
(Operating)							
	☐ WLAN: 5725MHz ~ 5850MHz						
	⊠ Bluetooth: 2402MHz ~ 2480MHz						
Davisa astagany	□ 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						
Remark:							
The maximum conducted output power is -1.30dBm (0.741mW) at 2480MHz (with -0.21dBi							
<u>antenna gain</u> .)							

12.3 Result

	Channel Frequency (MHz)	power	Max. Tune up power (dBm)	power	Antenna Gain(dBi)	Max.Tune up e.i.r.p. Power (dBm)	Max.Tune up e.r.p. Power (dBm)	Max.Tune up e.r.p. Power (mW)		SAR test exclusion thresholds (mW)
4	2402-2480	-1.30	-0.80	0.83	-0.21	-1.01	-3.16	0.48	5	2.72

No non-compliance noted.

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