7. Radio Frequency Exposure

7.1 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 antenna / radiating structure, where R > $~\lambda~/2~\pi$.							
					RESHOLDS FOR SINGLE R TINE ENVIRONMENTAL F Minimum Distance			
		f _L MHz	lcy	f _H MHz	$\lambda_{\rm L}$ / 2π		λ _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 0	159 mm 31.8 mm	_	31.8 mm 0.5 mm	0.0128 R ² f 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							
	$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \ cm} (d/20 \ \text{cm})^x & d \le 20 \ \text{cm} \\ ERP_{20 \ cm} & 20 \ \text{cm} < d \le 40 \ \text{cm} \end{cases}$							
∑ § 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) =	${204 \choose 306}$	10 <i>f</i> 0.3 GH 50 1.5 GH	$\mathbf{z} \leq f < 1.5 \mathrm{GHz}$ $\mathbf{z} \leq f \leq 6 \mathrm{GHz}$
	d = the separation distance (cm);							

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7.2 EUT Specification

Frequency band (Operating)	2400MHz ~ 2483.5MHz			
Device category	✓ Portable (<20cm separation)✓ Mobile (>20cm separation)			
Antenna diversity	 Single antenna Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity 			
Evaluation applied	☐ Blanket 1 mW Blanket Exemption☐ MPE-based Exemption☑ SAR-based Exemption			
Remark: The maximum conducted gain.)	ed output power is 79.62dBuV/m at 2417MHz (with 3.53dBi antenna			

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7.3 Result

Channel Frequency (MHz)	Fundamental Emission (dBm)	Max. Tune up power (dBm)	Max. Tune up power(mW)	Distance (mm)	SAR test exclusion thresholds (mW)
2417	-19.14	-18.64	0.0137	5	2.77

Antenna Gain (dBi)	Antenna Gain (linear)	Distance (m)	Fundamental Emission (dBuV/m)	Fundamental Emission (V/m)	Fundamental Emission (W)	Fundamental Emission (dBm)
3.53	2.25	3	79.62	0.0096	0.0000122	-19.14

No non-compliance noted.

-----THE END OF REPORT-----

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