12. Radio Frequency Exposure

12.1 Applicable Standards

	The second able to		4:					41 4 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	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 t antenna / radiating structure, where R > λ /2 π . TABLE B.1—THRESHOLDS FOR SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION								
∑ §1.1307(b)(3)(i)(c)		RF Source			Minimum Distance			Threshold	1
		Frequer	ıcy					ERP	_
		f _L MHz		∫ _H MHz	$\lambda_{L} / 2\pi$		$\lambda_{\rm H}$ / 2π	W	
3 (-/(-/(/(-/		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 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-avera	ged
	Device operates between 300 MHz and 6 GHz and the maximum time-averaged power or effective radiated power (ERP), whichever is greater, <= Pth								
	$(ERP_{20}, \dots, (d/20 \text{ cm})^x, d \leq 20 \text{ cm}$								
□ § 1.1307(b)(3)(i)(B).	$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 cm} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 cm} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$								
				(E	$RP_{20\ cm}$		20 cm	< <i>a</i> ≤ 40 cm	
	Where								
	$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right)$ and f is in GHz;								
	and								
				ERP ₂₀	_{cm} (mW) =	${204 \choose 306}$	0 1.5 GH	$z \le f < 1.5 \text{ GHz}$ $z \le f \le 6 \text{ GHz}$	
	d = the separation distance (cm);								

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12.2 EUT Specification

Frequency band (Operating)	902MHz~928MHz
Device category	☐ Portable (<20cm separation)☒ Mobile (>40cm separation)
Antenna diversity	Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity ☐ Tx/Rx diversity
Evaluation applied	☐ Blanket 1 mW Blanket Exemption☐ MPE-based Exemption☐ SAR-based Exemption
Remark: 1. The maximum condantenna gain.) Lora	ducted output power is <u>25.62 dBm (364.754 mW)</u> at <u>923.3MHz</u> (with <u>8dBi</u> a 500K

12.3 Results

Lora 500K

Channel Frequency (MHz)	Max. Conducted output power(dBm)	Max. Tune up power (dBm)	Antenna Gain(dBi)	Distance (cm)	EIRP (dBm)	ERP (dBm)	ERP (W)	ERP Limit (W)
923.3	25.62	26.12	8	50	34.12	31.97	1.57	2.95

No non-compliance noted.

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