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 s	regardless of separation distance.							
	ERP is below a threshold calculated based on the distance , R between the person a 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	
		Freque	ıcy					ERP	
§1.1307(b)(3)(i)(c)		f _L MHz		∫ _H MHz	$\lambda_{\rm L}$ / 2π		$\lambda_{\rm H}$ / 2π	W	
\$1.1007 (b)(0)(1)(0)		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 between 300 MHz and 6 GHz and the maximum time-averaged								
	power or effective radiated power (ERP), whichever is greater, <= Pth								
	$(ERP_{20 cm}(d/20 cm)^x d \le 20 cm$								
	$P_{th} \text{ (mW)} = \begin{cases} ERP_{20\ cm} (d/20\ \text{cm})^x & d \le 20\ \text{cm} \\ ERP_{20\ cm} & 20\ \text{cm} < d \le 40\ \text{cm} \end{cases}$								
\[\tag{1.1307(b)(3)(i)(B).}	Where				20 cm		20 0		
	$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right)$ and f is in GHz;								
	and								
		$ERP_{20\ cm}\ (mW) = \begin{cases} 2040f & 0.3\ GHz \le f < 1.5\ GHz \\ 3060 & 1.5\ GHz \le f \le 6\ GHz \end{cases}$							
	d = the separation distance (cm);								

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12.2 EUT Specification

Frequency band (Operating)	2402MHz-2480MHz							
Device category	□ Portable (<20cm separation)							
Device category	☐ Mobile (>20cm separation)							
	Single antenna							
	☐ Multiple antennas							
Antenna diversity	☐ Tx diversity							
Rx diversity								
Tx/Rx diversity								
	☐ Blanket 1 mW Blanket Exemption							
Evaluation applied								
Remark:								
The maximum conducted	ed output power is <u>-0.5dBm (0.891mW)</u> at <u>2402MHz</u> (with <u>3.12dBi</u>							
antenna gain.) For rete	sted data							
The section with the feet of the section of the sec								
The maximum conducted output power is -0.5dBm (0.891mW) at 2402MHz (with 4.5dBi								
antenna gain.) For 2403	antenna gain.) For 24030398-TRFCC03							

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12.3 Result

For retested data

Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Max. Tune up power (mW)	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)	Distance (mm)	SAR test exclusion thresholds (mW)
2402-2480	-0.50	0.00	1.00	3.12	3.12	0.97	1.25	5	2.72

No non-compliance noted.

For 24030398-TRFCC03

Channel Frequency (MHz)	Max. Conducted output power (dBm)	Max. Tune up power (dBm)	Max. Tune up power (mW)	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)	Distance (mm)	SAR test exclusion thresholds (mW)
2402-2480	-0.50	0.00	1.00	4.50	4.50	2.35	1.72	5	2.72

No non-compliance noted.

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