14. Radio Frequency Exposure

14.1 Applicable Standards

П	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 the antenna / radiating structure, where R > λ /2 π . TABLE B.1—THRESHOLDS FOR SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION									
	RF Source Frequency	Minimum Distance			Threshold ERP					
	f _L MHz	f _H MHz	$\lambda_{\rm L}$ / 2π		$\lambda_{\rm H}$ / 2π	W				
	0.3	- 1.34	159 m	_	35.6 m	1,920 R ²				
§1.1307(b)(3)(i)(c)	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				
	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.									
	•					Hz and the ma ichever is grea	ximum time-averaged ater, <= Pth			
	$E_{COMO} = \begin{cases} ERP_{20\ cm} (d/20\ \text{cm})^x & d \le 20\ \text{cm} \end{cases}$									
	$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 cm} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 cm} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$									
	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	$(mW) = \begin{cases} 20 \\ 30 \end{cases}$	$0.3 \text{ GHz} \le 0.60$ $1.5 \text{ GHz} \le 0.60$	$\leq f < 1.5 \text{GHz}$			
	d = the separation distance (cm);									

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14.2 EUT Specification

Frequency band (Operating)	 WLAN: 2412MHz ~ 2462MHz WLAN: 5150MHz ~ 5250MHz WLAN: 5250MHz ~ 5350MHz WLAN: 5470MHz ~ 5725MHz WLAN: 5725MHz ~ 5850MHz Bluetooth: 2402MHz ~ 2480MHz 				
	☐ Bidetootii. 2402/iii 12 ~ 2480/iii 12 ☐ 902MHz~928MHz				
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 conduct 4dBi antenna gain.)	ed output power is <u>29.48dBm (887.156mW)</u> at <u>927.25MHz</u> (with				

14.3 Result

Modulation Type	Frequency (MHz)	Max. Conducted output power(dBm)	Max. Tune up power (dBm)	Antenna Gain(dBi)	Max. Tune up e.r.p. Power (dBm)	Max. Tune up e.r.p power (mW)	Limit (mW)
ASK	902.75	29.45	29.95	4	31.80	1513.56	1841.61
	915	29.46	29.96	4	31.81	1517.05	1866.09
	927.25	29.48	29.98	4	31.83	1524.05	1891.59

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

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