

12. Radio Frequency Exposure

12.1 Applicable Standards

	The available m	aximum	n tim	e-avera	ged powe	er 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									
		RF Source Frequency			Minimum Distance			Threshold ERP		
S4 4207(b)(2)(i)(c)		$f_{\rm L}$ MHz		<i>f</i> н MHz	λ_L / 2π		$\lambda_{\rm H}$ / 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	159 mm	-	31.8 mm	0.0128 R ² f		
		1,500	-	$\begin{array}{c} 100,\!00\\ 0\end{array}$	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	d 6 GHz a	and	the maxim	num time-averag	ged	
	power or effective radiated power (ERP), whichever is greater, <= Pth									
	$P_{th} (mW) = \begin{cases} ERP_{20 cm} (d/20 cm)^{x} & d \le 20 cm \\ \\ ERP_{20 cm} & 20 cm < d \le 40 cm \end{cases}$									
	Where									
⊠ § 1.1307(b)(3)(i)(B).				$x = -\log x$	$g_{10}\left(\frac{6}{ERP_{20}}\right)$	$\frac{0}{cm\sqrt{2}}$	$=$ \int_{f} and f is in	n GHz;		
	and									
				ERP ₂₀	_{cm} (mW) =	${204 \\ 306}$	0 <i>f</i> 0.3 GH 0 1.5 GH	$z \leq f < 1.5 ext{ GHz}$ $z \leq f \leq 6 ext{ GHz}$		
	d = the separation distance (cm);									

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12.2 EUT Specification

	🗌 WLAN: 2412MHz ~ 2462MHz						
	🗌 WLAN: 5150MHz ~ 5250MHz						
Frequency band	🗌 WLAN: 5250MHz ~ 5350MHz						
(Operating)	WLAN: 5470MHz ~ 5725MHz						
	WLAN: 5725MHz ~ 5850MHz						
	Bluetooth: 2402MHz ~ 2480MHz						
Device entererv	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	MPE-based Exemption						
	SAR-based Exemption						
Remark:							
The maximum conducted output power is <u>3.82dBm (2.410mW)</u> at <u>2402MHz</u> (with <u>-2.69dBi</u>							
antenna gain.)							

12.3 Result

ANT A

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)	Distance (mm)	SAR test exclusion thresholds (mW)
2402-2480	3.47	3.97	2.49	-2.69	1.28	-0.87	0.82	5	2.72

No non-compliance noted.

ANT B

Channel Frequency (MHz)	power		power	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	3.82	4.32	2.70	-2.69	1.63	-0.52	0.89	5	2.72

No non-compliance noted.

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