

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 separation distance.								
	ERP is below a th antenna / radiatin	g structu TAI SUBJ	I re , \ BLE I <u>ECT</u>	where R	> λ / 2 RESHOLDS ΓΙΝΕ ΕΝVI	π. FOF RON	SINGLE R MENTAL I	F SOURCES EVALUATION	erson and t
		RF Source Frequency			Minimum Distance			Threshold ERP	
∑ \$1.1207(b)(2)(i)(a)		$f_{\rm L}$ MHz		∫ _H 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	-	1,500 100,00	159 mm 31.8 mm	-	31.8 mm 0.5 mm	0.0128 R ² f	
		1,500		0	51.0 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								
	$P_{th} (mW) = \begin{cases} ERP_{20 \ cm} (d/20 \ cm)^{x} & d \le 20 \ cm \\ \\ ERP_{20 \ cm} & 20 \ cm < d \le 40 \ cm \end{cases}$								
				(E	RP ₂₀ cm		20 cm	$< d \le 40 \text{ cm}$	
	Where								
☐ § 1.1307(b)(3)(i)(B).	$x = -\log_{10}\left(rac{60}{ERP_{20} cm\sqrt{f}} ight)$ and f is in GHz;								
	and								
				ERP ₂₀	_{cm} (mW) =	204 306	0 <i>f</i> 0.3 GH 0 1.5 GH	$z \leq f < 1.5~GHz$ $z \leq f \leq 6~GHz$	
	d = the separation distance (cm);								

Cerpass Technology Corp.	Issued Date	:	Jun. 28, 2024
T-FD-506-0 Ver 1.6	Page No.	:	45 of 46
	FCC ID.	:	SWX-ENVR



12.1 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)				
Antenna diversity	Single antenna				
	Multiple antennas				
	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>8.11dBm (6.471mW)</u> at <u>2480MHz</u> (with 3 <u>.00dBi</u>					
<u>antenna gain</u> .)					

12.2 Result

Channel	Max. Conducted	Max. Tune up	Antonno	Max.Tune up	Max. Tune up	Limit
Frequency	output power	power	Antenna Gain(dBi)	e.r.p. Power	e.r.p power	
(MHz)	(dBm)	(dBm)	Gain(ubi)	(dBm)	(mW)	(mW)
2402-2480	8.11	8.61	3.00	9.46	8.83	3060

No non-compliance noted.

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Cerpass Technology Corp.	Issued Date	:	Jun. 28, 2024
T-FD-506-0 Ver 1.6	Page No.	:	46 of 46
	FCC ID.	:	SWX-ENVR