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 threshold calculated based on the distance , R between the person an 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								
		Frequency						ERP	
\$1.1207(b)(2)(i)(a)		$f_{\rm L}$ MHz		$f_{ m H} \ m MHz$	$\lambda_L / 2\pi$		$\lambda_{\rm H}$ / 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	_	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.								
∑ § 1.1307(b)(3)(i)(B).	Device operates between 300 MHz and 6 GHz and the maximum time-averaged								
	power or effective		-				_	, <= Pth 0 cm < d ≤ 40 cm	
	Where								
	$x = -\log_{10}\left(\frac{60}{ERP_{20~cm}\sqrt{f}}\right)$ and f is in GHz;								
§ 1.1307(b)(3)(i)(B).									
§ 1.1307(b)(3)(I)(B).	and								
§ 1.1307(b)(3)(I)(B).	and			ERP ₂₀	_{cm} (mW) =	{204 306	0f 0.3 GH	$z \leq f < 1.5 ext{ GHz}$ $z \leq f \leq 6 ext{ GHz}$	

Report No.: 24070590-TRFCC02

Oct. 16, 2024

Issued Date :

T-FD-506-0 Ver 1.6 Page No. : 46 of 47 FCC ID. : SWX-UAG3

12.1 EUT Specification

•	
	☐ WLAN: 2412MHz ~ 2462MHz
	☐ WLAN: 5150MHz ~ 5250MHz
Frequency band	
(Operating)	
	⊠ Bluetooth: 2402MHz ~ 2480MHz
Dovice estegery	☐ Portable (<20cm separation)
Device category	
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 conducted	ed output power is <u>8.23dBm (6.653mW) at 2440MHz (with 4.00dBi</u>
antenna gain.)	

12.2 Result

Channel 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)
2402-2480	8.23	8.73	4.00	10.58	11.43	3060

No non-compliance noted.

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

Cerpass Technology Corp. T-FD-506-0 Ver 1.6 Issued Date : Oct. 16, 2024

Page No. : 47 of 47

FCC ID. : SWX-UAG3

Report No.: 24070590-TRFCC02