## 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 and antenna / radiating structure, where R > $\lambda$ /2 $\pi$ .  TABLE B.1—THRESHOLDS FOR SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION								
$\nabla$		RF Source			Minimum Distance			Threshold	
		Frequer f <sub>L</sub> MHz	ncy	f	$\lambda_{\rm L}/2\pi$ $\lambda_{\rm H}/2\pi$			ERP	
§1.1307(b)(3)(i)(c)		JL MITIZ		∫ <sub>H</sub> MHz	Λ <u>Γ</u> / 2π		$\lambda_{\rm H}$ / $2\pi$	W	
§1.1307 (b)(3)(1)(c)		0.3	-	1.34	159 m	-	35.6 m	1,920 R <sup>2</sup>	
		1.34	_	30	35.6 m	_	1.6 m	3,450 R <sup>2</sup> /f <sup>2</sup>	
		30	_	300	1.6 m	_	159 mm	3.83 R <sup>2</sup>	
		300	<u> </u>	1,500	159 mm	_	31.8 mm	0.0128 R <sup>2</sup> f	
		1,500	-	100,00	31.8 mm	_	0.5 mm	19.2R <sup>2</sup>	
	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								
□ § 1.1307(b)(3)(i)(B).	$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 cm} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 cm} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$								
	Where								
	$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right)$ and $f$ is in GHz;								
	and								
	$ERP_{20 cm} \text{ (mW)} = \begin{cases} 2040 f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$								
	d = the separation distance (cm);								

Report No.: 24030398-TRFCC02

Cerpass Technology Corp. Issued Date : May. 31, 2024

T-FD-506-0 Ver 1.6 Page No. : 52 of 53 FCC ID. : ZHK-KB25

## 12.2 EUT Specification

Frequency band (Operating)	2402MHz-2480MHz				
Device category	<ul><li>✓ Portable (&lt;20cm separation)</li><li>✓ Mobile (&gt;20cm separation)</li></ul>				
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 conducte antenna gain.)	ed output power is <u>-0.01dBm (1002mW)</u> at <u>2402MHz</u> (with <u>1.72dBi</u>				

## 12.3 Result

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	0.01	0.51	1.12	1.72	2.23	0.08	1.02	5	2.72

No non-compliance noted.

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

 Cerpass Technology Corp.
 Issued Date
 : May. 31, 2024

 T-FD-506-0 Ver 1.6
 Page No. : 53 of 53

FCC ID. : ZHK-KB25

Report No.: 24030398-TRFCC02