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 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	$\lambda_L / 2\pi$ $\lambda_H / 2\pi$	W					
84 4007(1)(0)(1)(1)	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					
	300 - 1,500	159 mm - 31.8 mm	$0.0128 \mathrm{R}^2 f$					
	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.							
	Device operates between 300 MHz and 6 GHz and the maximum time-averaged							
	power or effective radiated power (ERP), whichever is greater, <= Pth $P_{th} \text{ (mw)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^{\frac{1}{4}} & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$							
∑ § 1.1307(b)(3)(i)(B).	Where $x = -\log_{10}\left(\frac{60}{ERP_{20cm}\sqrt{f}}\right) \text{ and } f \text{ is in GHz};$							
	and							
	$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040 f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$							
	d = the separation distance (cm);							

T-FD-512-0 Ver 1.5

Issued Date: May. 23, 2024
Page No.: 60 of 61

FCC ID : RPV-SE5201B-M1

Report No.: 24010312-TRFCC03

12.2. EUT Specification

Frequency band	Band 2: 1850.7~ 1909.3				
(Operating)	Band 25:1850.7 ~ 1914.3				
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				

12.3. Results

_	Channel Con	Max.	(dBm)			Max.Tune	Max.Tune up	
		Conducted		Antenna	Cable	up e.r.p.	e.r.p.	Limit
	Frequency	' ' output		Gain(dBi)	Loss	Power	Power	(mW)
	(IVIDZ)	power(dBm)				(dBm)	(mW)	
Band 2	1908.5	20.73	21.23	0.46	0.67	18.87	77.09	3060
Band 25	1914.3	20.22	20.72	0.46	0.67	18.36	68.55	3060

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

Cerpass Technology Corp.

T-FD-512-0 Ver 1.5 Page No. : 61 of 61

Issued Date: May. 23, 2024

Report No.: 24010312-TRFCC03

FCC ID : RPV-SE5201B-M1