7. Radio Frequency Exposure

7.1 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 t antenna / radiating structure, where R > $~\lambda~/2~\pi$.							
					RESHOLDS FOR SINGLE R TINE ENVIRONMENTAL E Minimum Distance			
		Frequer	ıcy					ERP
		f _L MHz		f _H MHz	$\lambda_{\rm L}$ / 2π		λ _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	-	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.							
	Device operates between 300 MHz and 6 GHz and the maximum time-averaged							
	power or effective radiated power (ERP), whichever is greater, <= Pth							
	$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 cm} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 cm} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$							
	Where							
∑ § 1.1307(b)(3)(i)(B).	$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right)$ and f is in GHz;							
	and							
				ERP ₂₀	_{cm} (mW) =	$\binom{204}{306}$	10 <i>f</i> 0.3 GH 50 1.5 GH	$\mathbf{z} \leq f < 1.5 \mathrm{GHz}$ $\mathbf{z} \leq f \leq 6 \mathrm{GHz}$
	d = the separation distance (cm);							

T-FD-516-0 Ver 1.5 Page No. : 38 of 39

Issued Date : Mar. 14, 2023 FCC ID. : GSS-VS19567

Report No.: 22120095-TRFCC02

7.2 EUT Specification

Frequency band (Operating)	2400MHz ~ 2483.5MHz
Device category	✓ Portable (<20cm separation)✓ Mobile (>20cm separation)
Antenna diversity	Single antennaMultiple antennas☐ Tx diversity☐ Rx diversity☐ Tx/Rx diversity
Evaluation applied	☐ Blanket 1 mW Blanket Exemption☐ MPE-based Exemption☑ SAR-based Exemption
Remark: The maximum conductegain.)	ed output power is <u>89.48</u> dBuV/m at <u>2436MHz</u> (with <u>3.45dBi antenna</u>

7.3 Result

Channel Frequency (MHz)	Fundamental Emission (dBm)	Max. Tune up power (dBm)	Max. Tune up power(mW)	Distance (mm)	SAR test exclusion thresholds (mW)
2436	-0.75	-0.25	0.94	5	2.76

Antenna Gain (dBi)	Antenna Gain (linear)	Distance (m)	Fundamental Emission (dBuV/m)	Fundamental Emission (V/m)	Fundamental Emission (W)	Fundamental Emission (dBm)
-5	0.316227766	3	89.48	0.0298	0.000842	-0.75

No non-compliance noted.

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Cerpass Technology Corp.

T-FD-516-0 Ver 1.5 Page No. : 39 of 39

Issued Date : Mar. 14, 2023 FCC ID. : GSS-VS19567

Report No.: 22120095-TRFCC02