12. Radio Frequency Exposure

12.1 Applicable Standards

The measurements shown in this test report were made in accordance with the procedures given in FCC Part 2 (Section 2.1091)

Report No.: TEFQ1907135

Issued Date : Jul. 23, 2019

12.2 EUT Specification

	│
	☐ WLAN: 5150MHz ~ 5250MHz
Frequency band	☐ WLAN: 5250MHz ~ 5350MHz
(Operating)	☐ WLAN: 5470MHz ~ 5725MHz
	☐ WLAN: 5725MHz ~ 5850MHz
	⊠ Bluetooth: 2402MHz ~ 2480MHz
Dovice estegery	☐ Portable (<20cm separation)
Device category	
Exposure	☐ Occupational/Controlled exposure (S = 5mW/cm²)
classification	☐ General Population/Uncontrolled exposure
Classification	(S=1mW/cm ²)
	☐ Single antenna
	Multiple antennas
Antenna diversity	Tx diversity
	Rx diversity
	☐ Tx/Rx diversity
Evaluation applied	SAR Evaluation
	│ □ N/A
Remark:	
1. The maximum cond	ducted output power is <u>4.18dBm (2.618mW)</u> at <u>2402MHz</u> (with <u>2.2dBi</u>
antenna gain.)	20000 00000 power 10 <u>4. 1005111 (2.0 101111//</u> 01 <u>24021/1112</u> (Will 1 <u>2.2051</u>
_ ,	subject to routine RF evaluation; MPE estimate is used to justify the
compliance.	any contract to transaction, in a countract to dood to judity the
•	location transmitters, no SAR consideration applied. The maximum
	0 mW/cm² even if the calculation indicates that the power density
would be larger	2 2. 2 and datamation mandated that the power deficity

Cerpass Technology Corp.

T-FD-506-0 Ver 1.1 Page No. : 60 of 62 FCC ID. : SWX-UFPVP

12.3 Test Results

No non-compliance noted.

12.4 Calculation

Given
$$E = \frac{\sqrt{30 \times P \times G}}{d}$$
 & $S = \frac{E^2}{3770}$

Where E = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = *Distance in meters*

S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P(mW) = P(W) / 1000$$
 and $d(cm) = d(m) / 100$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$
 Equation 1

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

 $S = Power density in mW / cm^2$

Issued Date : Jul. 23, 2019

Report No.: TEFQ1907135

Page No. : 61 of 62

FCC ID. : SWX-UFPVP

12.5 Maximum Permissible Exposure

Channel Frequency (MHz)	Max. Conducted output power(dBm)	Max. Tune up power (dBm)	Antenna Gain(dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)
2402-2480	4.18	5.68	2.2	20	0.001	1

Report No.: TEFQ1907135

Issued Date : Jul. 23, 2019

Cerpass Technology Corp.

T-FD-506-0 Ver 1.1 Page No. : 62 of 62 FCC ID. : SWX-UFPVP