RF Exposure Report

Report No.:	SA190710C11B
FCC ID:	WS2-WG7833B0
Test Model:	WG7833-B0
Received Date:	Jul. 10, 2019
Date of Evaluation:	Oct. 18, 2019
Issued Date:	Oct. 22, 2019
Applicant:	Jorjin Technologies Inc.
Address:	17F., No. 239, Sec. 1, Datong Rd., Xizhi Dist., New Taipei City 22161, Taiwan
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN
FCC Registration / Designation Number:	788550 / TW0003

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Release Control Record

Issue No.	Description	Date Issued
SA190710C11B	Original Release	Oct. 22, 2019

1 Certificate of Conformity

Product:	Wireless module
Brand:	Jorjin
Test Model:	WG7833-B0
Sample Status:	Engineering Sample
Applicant:	Jorjin Technologies Inc.
Date of Evaluation:	Oct. 18, 2019
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.3 -2002

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : _____ , **Date:** Oct. 22, 2019

Gina Liu / Specialist

Approved by : _____ , **Date:** Oct. 22, 2019

Dylan Chiou / Project Engineer

2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	30
30-300	27.5	0.073	0.2	30
300-1500	…	…	f/1500	30
1500-100,000	…	…	1.0	30

f = Frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

$Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm^2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

pi = 3.1416

r = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Calculation Result of Maximum Conducted Power

Band	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
WLAN	2412-2462	17.50	4.13	20	0.029	1.00
	5180-5240	18.00	4.59	20	0.036	1.00
	5260-5320	16.89	3.65	20	0.023	1.00
	5500-5700	17.02	2.87	20	0.019	1.00
	5745-5825	18.00	3.98	20	0.031	1.00
BT	2402-2480	13.00	4.13	20	0.010	1.00

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The maximum power and antenna gain of the WLAN 2.4G, WLAN 5G UNII-1, WLAN 5G UNII-3 and Bluetooth radio band, please refer to Compliance Certification Services Inc. report no.: T150417W02-MF.

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