

RF Exposure Report							
Report No.:	SA160819E01G						
FCC ID:	COF-WMBNBM26A						
Test Model:	WM-BN-BM-26_A_FF4						
Series Model:	WM-BN-BM-26_A, WM-BN-BM-26_A_FF2, WM-BN-BM-26_A_FF3						
Received Date:	Aug. 26, 2019						
Test Date:	Sep. 11, 2019						
Issued Date:	Sep. 23, 2019						
Applicant:	UNIVERSAL GLOBAL SCIENTIFIC INDUSTRIAL CO., LTD.						
Address:	141, Lane 351, Sec. 1, Taiping Road., Tsaotuen, Nantou 54261, Taiwan						
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory						
Lab Address:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan.						
Test Location :	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan.						
FCC Registration / Designation Number:	723255 / TW2022						

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# Table of Contents

Relea	se Control Record	. 3
1	Certificate of Conformity	. 4
2	RF Exposure	
2.2 2.3	Limits for Maximum Permissible Exposure (MPE) MPE Calculation Formula Classification	. 5 . 5
2.4 2.5	Antenna Gain Calculation Result of Maximum Conducted Power	



Release Control Record						
Issue No.	Description			Date Issued		
SA160819E01G	Original release.			Sep. 23, 2019		
Depart No SA160910E		Dage No. 2/6		Depart Format Varaian: 6.1.1		



# Certificate of Conformity Product: 802.11b/g/n + BT Wireless LAN Module Brand: USI Test Model: WM-BN-BM-26\_A\_FF4 Series Model: WM-BN-BM-26\_A, WM-BN-BM-26\_A\_FF2, WM-BN-BM-26\_A\_FF3 Sample Status: ENGINEERING SAMPLE Applicant: UNIVERSAL GLOBAL SCIENTIFIC INDUSTRIAL CO., LTD. Test Date: Sep. 11, 2019 Standards: FCC Part 2 (Section 2.1091) KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.1-1992

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 EMC characteristics under the conditions specified in this report.

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Wendy Wu / Specialist

Sep. 23, 2019

Approved by :

May Chen / Manager

Date: Sep. 23, 2019



# 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 <sup>2</sup> )	Average Time (minutes)				
Limits For General Population / Uncontrolled Exposure							
300-1500 F/1500 30							
1500-100,000			1.0	30			

F = Frequency in MHz

## 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 Antenna Gain

Brand	Model	Antenna Net Gain(dBi)	Frequency range (GHz to GHz)	Antenna Type	Connector Type
YAGEO	ANT3216LL11R2400A	3.68	2.4~2.4835	Chip	NA



### 2.5 Calculation Result of Maximum Conducted Power

# For WLAN

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2412-2462	283.792	3.68	20	0.13174	1

## For BT-EDR:

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2402-2480	5.534	3.68	20	0.00257	1

#### For BT-LE:

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2402-2480	5.284	3.68	20	0.00245	1

NOTE:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2. The Max. Power = Max. tune up power including tolerance.

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