

RF Exposure Report

Report No.: SA200416C29

FCC ID: 2ANHQDEWWW3

Test Model: DEWPE4

Series Model: DEWWW3

Received Date: Apr. 16, 2020

Test Date: May 29 ~ Sep. 29, 2020

Issued Date: Oct. 08, 2020

Applicant: JALA GROUP

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 788550 / TW0003

Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
SA200416C29	Original release.	Oct. 08, 2020

1 Certificate of Conformity

Product: Jala Mesh-Router

Brand: JALA GROUP

Test Model: DEWPE4

Series Model: DEWWW3

Sample Status: Engineering sample

Applicant: JALA GROUP

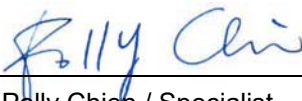
Test Date: May 29 ~ Sep. 29, 2020

Standards: FCC Part 2 (Section 2.1091)

IEEE C95.3 -2002

References Test Guidance: KDB 447498 D01 General RF Exposure Guidance v06

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. 08, 2020
Polly Chien / Specialist

Approved by : , **Date:** Oct. 08, 2020
Bruce Chen / Senior 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				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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.

3 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max AV Power (dBm)	Directional Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN					
2412-2462	23.27	5.68	20	0.156	1
5180-5240	26.34	8.14	20	0.558	1
5745-5825	26.40	8.14	20	0.566	1
BT LE					
2402 ~ 2480	7.68	3.22	20	0.002	1

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

*WLAN & BT LE technology can transmit at same time.

WLAN 2.4GHz: Max. Directional Gain = 2.67dBi + 10log(2) = 5.68dBi

WLAN 5GHz: Max. Directional Gain = 5.13dBi + 10log(2) = 8.14dBi

BT LE antenna gain = 3.22dBi

Conclusion:

The formula of calculated the MPE is:

$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$

CPD = Calculation power density

LPD = Limit of power density

WLAN 2.4GHz+ WLAN 5GHz+ BT LE= 0.156/1+0.566/1+0.002/1=0.724

Therefore the maximum calculations of above situations are less than the "1" limit.

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