

RF Exposure Report

Report No.: SA150422C24

FCC ID: TE7C2600

Test Model: Archer C2600

Received Date: Apr. 22, 2015

Test Date: May 12 ~ May 20, 2015

Issued Date: May 20, 2015

Applicant: TP-LINK TECHNOLOGIES CO., LTD.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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Release Control Record

Issue No.	Description	Date Issued
SA150422C24	Original release	May 20, 2015

1 Certificate of Conformity

Product: AC2600 Wireless Dual Band Gigabit Router

Brand: TP-LINK

Test Model: Archer C2600

Sample Status: Prototype

Applicant: TP-LINK TECHNOLOGIES CO., LTD.

Test Date: May 12 ~ May 20, 2015

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D03

IEEE C95.1

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.

Prepared by :



Date:

May 20, 2015

Pettie Chen / Senior Specialist

Approved by :



Date:

May 20, 2015

Ken Liu / Senior Manager

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

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

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 39cm 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 Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412-2462	29.88	9.06	39	0.410	1
5180-5240	28.63	10.97	39	0.477	1
5745-5825	29.97	10.17	39	0.540	1

Note:

2412 ~ 2462MHz: Directional gain = 3.04dBi + 10log(4) = 9.06dBi

5180 ~ 5240MHz: Directional gain = 4.95dBi + 10log(4) = 10.97dBi

5745 ~ 5825MHz: Directional gain = 4.15dBi + 10log(4) = 10.17dBi

CONCLUSION:

Both of the WLAN 2.4G & WLAN 5G can transmit simultaneously, the formula of calculated the MPE is:

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

CPD = Calculation power density

LPD = Limit of power density

$$\text{WLAN 2.4G} + \text{WLAN 5.0G} = 0.410 + 0.540 = 0.950$$

Therefore, the maximum calculation of this situation is 0.950, which is less than the "1" limit.

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