

## RF Exposure Report

**Report No.:** SA150326C16B

**FCC ID:** TE7T9E

**Test Model:** Archer T9E

**Received Date:** Mar. 26, 2015

**Test Date:** Apr. 25 ~ May 11, 2015

**Issued Date:** Aug. 10, 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
SA150326C16B	Original release.	Aug. 10, 2015



**1 Certificate of Conformity**

**Product:** AC1900 Wireless Dual Band PCI Express Adapter  
**Brand:** TP-LINK  
**Test Model:** Archer T9E  
**Sample Status:** Prototype  
**Applicant:** TP-LINK TECHNOLOGIES CO., LTD.  
**Test Date:** Apr. 25 ~ May 11, 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 :** Celine Chou , **Date:** Aug. 10, 2015  
Celine Chou / Specialist

**Approved by :** Ken Liu , **Date:** Aug. 10, 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 <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

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

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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**.

## 3 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2412-2462	27.07	6.77	20	0.482	1
5180-5240	22.87	6.77	20	0.183	1
5260-5320	23.81	6.77	20	0.227	1
5500-5700	23.66	6.77	20	0.220	1
5745-5825	23.33	6.77	20	0.204	1

**Note:** Directional gain = 2dBi + 10log(3) = 6.77dBi

\* Both of the 2.4GHz and 5GHz can not transmit simultaneously

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