

RF EXPOSURE REPORT

Applicant	TP-Link Technologies Co., Ltd.			
Address	Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China			
Manufacturer or Supplier	TP-Link Technologies Co., Ltd.			
Address	Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China			
Product	300Mbps Wireless N Router			
Brand Name	TP-Link			
Model	TL-WR841N			
Additional Model & Model Difference	N/A			
Date of tests	Oct. 17, 2016 ~ Nov.14, 2016			
 ☑ FCC Part 2 (Sec ☑ KDB 447498 D0 ☑ IEEE C95.1 CONCLUSION: The 	1	COMPLY with the test requirement		
	ested by Harry Li gineer/ EMC Department	Approved by Glyn He Supervisor / EMC Department		
	Harry	Atu		
only with our prior written per report are not indicative or re unless specifically and expre provided to us. You have 60 however, that such notice sha shall constitute your unqualifi	rmission. This report sets forth our findings solely epresentative of the quality or characteristics of the ssly noted. Our report includes all of the tests re days from date of issuance of this report to noti all be in writing and shall specifically address the is ed acceptance of the completeness of this report, the	Date: Nov.25, 2016 or for any other person or entity, or use of our name or trademark, is permitted with respect to the test samples identified herein. The results set forth in this ne lot from which a test sample was taken or any similar or identical product quested by you and the results thereof based upon the information that you fy us of any material error or omission caused by our negligence, provided, ssue you wish to raise. A failure to raise such issue within the prescribed time the tests conducted and the correctness of the report contents. Unless specific to declare the compliance or non-compliance to the specification		

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Report Version 1



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS161017N045	Original release	Nov.25, 2016

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BUREAU VERITAS Test Report No.: FS161017N045

1. CERTIFICATION

PRODUCT:	300Mbps Wireless N Router
BRAND NAME:	TP-Link
MODEL NO .:	TL-WR841N
ADDITIONAL MODEL:	N/A
FCC ID:	TE7WR841NV13
TEST SAMPLE:	ENGINEERING SAMPLE
APPLICANT:	TP-Link Technologies Co., Ltd.
TESTED DATE:	Oct. 10, 2016
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1

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2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm ²)			
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE						
300-1500			F/1500	30		
1500-100,000			1.0	30		

F = Frequency in MHz

3. 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

4. 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**.



5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Total Gain (dBi)	Antenna Type
Chain 0	5	0.01	Dipole Antenna
Chain 1	5	8.01	Dipole Antenna

Note: Total Gain=3.2+10log(N=2)=5+(3.01)=8.01dBi

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm²)
WLAN 2.4GHz	234.722	5	20	0.148	1.0

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