





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	450Mbps Wireless N Gigabit Router
Brand Name	TP-LINK
Model	TL-WR1043ND
Additional Model & Model Difference	N/A
Date of tests	Dec.10, 2015 ~ Dec. 24, 2015

- FCC Part 2 (Section 2.1091)
- KDB 447498 D01
- IEEE C95.1

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Harry Li Project Engineer/ EMC Department	Approved by Chris Chen Assistant Manager / EMC Department
	 Date: Dec. 24, 2015

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VERITAS

Test Report No.: FS151030N028

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS151030N028	Original release	Dec. 24, 2015

Bureau Veritas Shenzhen Co., Ltd.
Dongguan Branch

No. 34, Chenwulu Section, Guantai Rd., Houjie
Town, Dongguan City,
Guangdong 523942, China

Tel: +86 769 8593 5656
Fax: +86 769 8593 1080
Email: customerservice.dg@cn.bureauveritas.com



Test Report No.: FS151030N028

1. CERTIFICATION

PRODUCT: 450Mbps Wireless N Gigabit Router

BRAND NAME: TP-LINK

MODEL NO.: TL-WR1043ND

ADDITIONAL MODEL: N/A

FCC ID: TE7WR1043NDV4

TEST SAMPLE: ENGINEERING SAMPLE

APPLICANT: TP-LINK TECHNOLOGIES CO., LTD.

TESTED DATE: Dec. 24, 2015

STANDARDS: FCC Part 2 (Section 2.1091)

KDB 447498 D01

IEEE C95.1



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)	AVERAGE TIME (minutes)
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/cm²

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	9.77	Dipole Antenna
Chain 1	5.0		Dipole Antenna
Chain 2	5.0		Dipole Antenna

Note: Total Gain=5.0+10log(N=3)=5.0+(4.77)=9.77dBi

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/cm ²)
WLAN 2.4GHz	663.943	5	20	0.660	1.0

--- END ---