



BUREAU
VERITAS

Test Report No.: FS151028N007

RF EXPOSURE REPORT

Applicant	TP-LINK TECHNOLOGIES CO., LTD.
Address	Building 24 (floors 1, 3, 4, 5) and 28 (floors 1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China

Manufacturer or Supplier	TP-LINK TECHNOLOGIES CO., LTD.
Address	Building 24 (floors 1, 3, 4, 5) and 28 (floors 1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Product	150Mbps Wireless N ADSL2+ Modem Router
Brand Name	TP-LINK
Model	TD-W8151N
Additional Model & Model Difference	N/A
Date of tests	Nov. 20, 2015 ~ Nov. 30, 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 Blue Zheng Project Engineer / EMC Department	Approved by Chris Chen Supervisor / EMC Department
	

Date: Nov. 30, 2015

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS151028N007	Original release	Nov. 30, 2015

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1. CERTIFICATION

PRODUCT: 150Mbps Wireless N ADSL2 + Modem Router

BRAND NAME: TP-LINK

MODEL NO.: TD-W8151N

ADDITIONAL MODEL: N/A

FCC ID: TE7TDW8151NV5

TEST SAMPLE: ENGINEERING SAMPLE

APPLICANT: TP-LINK TECHNOLOGIES CO., LTD.

STANDARDS: FCC Part 2 (Section 2.1091)

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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)	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

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

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

P_i = 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	5.0	Dipole Antenna



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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	272.898	5.0	20	0.172	1.0

--- END ---