

RF EXPOSURE REPORT

REPORT NO.: SA130708C19

MODEL NO.: TD-W8968

FCC ID: TE7TDW8968V2

RECEIVED: Jul. 08, 2013

TESTED: Sep. 19 ~ Oct. 18, 2013

ISSUED: Oct. 22, 2013

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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TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei

Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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RELEASE CONTROL RECORD

ISSUE NO. REASON FOR CHANGE		DATE ISSUED
SA130708C19	Original release.	Oct. 22, 2013

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1. CERTIFICATION

PRODUCT: 300Mbps Wireless N USB ADSL2+ Modem Router

MODEL: TD-W8968

BRAND: TP-LINK

APPLICANT: TP-LINK TECHNOLOGIES CO., LTD.

TESTED: Sep. 19 ~ Oct. 18, 2013

TEST SAMPLE: PRODUCTION SAMPLE

STANDARDS: FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

IEEE C95.1

The above equipment (Model: TD-W8968) 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**: Oct. 22, 2013

Pettie Chen / Senior Specialist

APPROVED BY: , **DATE**: Oct. 22, 2013

Ken Liu / Senior Manager



2. RF EXPOSURE

2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY ELECTRIC FIE STRENGTH (V		MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm²)	AVERAGE TIME (minutes)			
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE							
300-1500	300-1500		F/1500	30			
1500-100,000			1.0	30			

F = Frequency in MHz

2.2 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

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**.



2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm²)
2412-2462	27.20	5	20	0.33	1

DEVICE	MAX EIRP (W)	MAX EIRP (dBm)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
3G USB DONGLE	2.0	33.00	20	0.397	1

This product can operate with a plug-in 3G USB device which has maximum of 2W EIRP output power. Co-located mode is as below

1. Wi-Fi 2.4GHz + 3G dongle = 0.33/1+0.397/1 = 0.727

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