

RF EXPOSURE REPORT

| Applicant | TP-LINK TECHNOLOGIES CO., LTD. | | | |
|---|--|----------------------------------|--|--|
| Address | Building 24 (floors 1,3,4,5) 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 (floors 1,3,4,5) and 28 (floors1- 4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China | | | |
| Product | 300Mbps Wireless N Nano Router | | | |
| Brand Name | TP-LINK | | | |
| Model | TL-WR802N | | | |
| Additional Model & Model Difference | N/A | | | |
| Date of tests | Dec. 05, 2015 ~ Dec. 15, 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 LiApproved by Chris ChenProject Engineer/ EMC DepartmentAssistant Manager / EMC Department | | | | |
| Harry | | Avris | | |
| Date: Dec. 15, 2015 This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specification | | | | |

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RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|--------------|-------------------|---------------|
| FS151105N013 | Original release | Dec. 15, 2015 |

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BUREAU VERITAS Test Report No.: FS151105N013

1. CERTIFICATION

| PRODUCT: | 300Mbps Wireless N Nano Router |
|-------------------|--------------------------------|
| BRAND NAME: | TP-LINK |
| MODEL NO .: | TL-WR802N |
| ADDITIONAL MODEL: | N/A |
| FCC ID: | TE7WR802NV2 |
| TEST SAMPLE: | ENGINEERING SAMPLE |
| APPLICANT: | TP-LINK TECHNOLOGIES CO., LTD. |
| TESTED DATE: | Dec. 15, 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) | | | 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

 $Pd = power density in mW/cm^2$

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 | 1.5 | 4.54 | Dipole Antenna |
| Chain 1 | 1.5 | 4.51 | Dipole Antenna |

Note: Total Gain=1.5+10log(N=2)=1.5+(3.01)=4.51dBi

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 | 203.555 | 1.5 | 20 | 0.06 | 1.0 |

--- END ----

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