

# FCC RF EXPOSURE REPORT

**FCC ID: TE7HS100V3**

**Project No. : 1903C327**  
**Equipment : Smart Wi-Fi Plug**  
**Test Model : HS100**  
**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**

**According : FCC Guidelines for Human Exposure IEEE**  
**C95.1 & FCC Part 2.1091**

## **B T L I N C .**

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Certificate #5123.02

## 1. GENERAL SUMMARY

Equipment : Smart Wi-Fi Plug  
 Brand Name : tp-link  
 Test Model : HS100  
 Series Model : N/A  
 Applicant : TP-Link Technologies Co.,Ltd.  
 Manufacturer : 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  
 Date of Test : Mar. 27, 2019~Apr. 12, 2019  
 Test Sample : Engineering Sample No.: D190302967  
 Standards : FCC Title 47 Part 2.1091, OET Bulletin 65 Supplement C

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1903C327) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

## 2. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

| Ant. | Brand                                                                               | P/N | Antenna Type | Connector | Gain (dBi) |
|------|-------------------------------------------------------------------------------------|-----|--------------|-----------|------------|
| 1    |  | N/A | Internal     | N/A       | 2.94       |

### 3. TEST RESULTS

| Antenna Gain (dBi) | Antenna Gain (numeric) | Max. Average Output Power (dBm) | Max. Average Output Power (mW) | Power Density (S) (mW/cm <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | Test Result |
|--------------------|------------------------|---------------------------------|--------------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 2.94               | 1.9679                 | 20.84                           | 121.3389                       | 0.04753                                 | 1                                                | Complies    |

Note: The calculated distance is 20 cm.

**End of Test Report**