



# FCC RF EXPOSURE REPORT

FCC ID: TE7LM500

**Project No.** : 1909C149

**Equipment**: Tapo Smart Light Bulb Wi-Fi Module

Brand Name : tp-link
Test Model : LM500
Series Model : N/A

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 : 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 Receipt : Sep. 27, 2019

**Date of Test** : Sep. 27, 2019 ~ Nov. 08, 2019

**Issued Date** : Feb. 27, 2020

Report Version : R02

Test Sample : Engineering Sample No.: DG2019102113

Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091

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.

Prepared by: Welly 7hou

Approved by: Ethan Ma

ACCREDITED

Certificate #5123.02

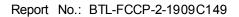
Add: No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

Tel: +86-769-8318-3000 Web: www.newbtl.com



# **REPORT ISSUED HISTORY**

Report Version	Description	Issued Date	
R00	Original Issue	Jan. 16, 2020	
R01	Updated the data for power.	Feb. 25, 2020	
R02	Changed the model name.	Feb. 27, 2020	





## 1. 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	Model Name	Antenna Type	Connector	Gain (dBi)
1	TP-LINK°	N/A	PCB	N/A	0.27

## 2. 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
0.27	1.0641	17.76	59.7035	0.01265	1	Complies

#### Note:

- 1) The calculated distance is 20 cm.
- 2) Output power including tune up tolerance ( $\pm 0.5 dB$ ).

**End of Test Report**