

# 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.



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**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		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**