

FCC RF EXPOSURE REPORT

FCC ID: 2BH7FKL110

Project No. : 2505G016
Equipment : Smart Wi-Fi Light Bulb, Dimmable
Brand Name : tp-link
Test Model : KL110
Series Model : N/A
Applicant : TP-Link Systems Inc.
Address : 10 Mauchly, Irvine, CA 92618
Manufacturer : TP-Link Systems Inc.
Address : 10 Mauchly, Irvine, CA 92618
Date of Receipt : May 22, 2025
Date of Test : May 23, 2025 ~ Jun. 27, 2025
Issued Date : Aug. 18, 2025
Test Sample : Engineering Sample No.: DG20250522159
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091 & KDB 447498 D01 v06

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

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2505G016	R00	Original Report.	Aug. 18, 2025	Valid

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

2. ANTENNA SPECIFICATION

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	TP-Link Systems Inc.	KL110(US)4.6	monopole	N/A	-0.79

Note: The antenna gain is provided by the manufacturer.

3. CALCULATED RESULT

For 2.4GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
-0.79	0.8337	18.52	71.1214	0.01180	1	Complies

Note:

(1) The calculated distance is 20 cm.

End of Test Report