

FCC RF EXPOSURE REPORT

FCC ID: 2BH7FDL105


Project No. : 2506C337
Equipment : Smart Wi-Fi Door Lock
Brand Name : tp-link, tapo
Model Name : Tapo DL110
Hardware Version : 2.0
Software Version : 2.X
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 : Apr. 18, 2025
Date of Test : Apr. 18, 2025 ~ May 14, 2025
Issued Date : Aug. 14, 2025
Test Sample : Engineering Sample No.: DG2025041870
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).

Prepared by :


Sheldon Ou

Approved by :


Chay Cai

No.3, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.

Tel: +86-769-8318-3000 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2506C337	R00	<p>This is a copy report which referencing test data are provided from test report (BTL-FCCP-3-2504G021).</p> <ol style="list-style-type: none">1. Changed the model name, hardware version and software version.2. The product has below changes:<ol style="list-style-type: none">a. The model Tapo DL110 is divided into two parts: the inner door and the outer door. The inner door part is exactly the same as the model Tapo DL105 (WiFi module, BLE module and antenna), but the design circuit of the outer door part is different (the outer door part has no wireless function). <p>Based on above described changes, no tests were considered necessary. The test results are kept the same with original report.</p>	Aug. 14, 2025	Valid

1. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

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

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	P/N	Antenna Type	Connector	Gain (dBi)
1	TP-Link Systems Inc.	3101507419	PIFA	N/A	0

Note: The antenna gain is provided by the manufacturer.

3. CALCULATED RESULT

For LE:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Max. Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
0	1.0000	10.50	11.2202	0.00223	1	Complies

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	1.0000	20.09	102.0939	0.02032	1	Complies

Note:

(1) The calculated distance is 20 cm.

(2) Ratio=Power Density (S) (mW/cm²)/Limit of Power Density (S) (mW/cm²)

End of Test Report