

# FCC RF EXPOSURE REPORT

## FCC ID: 2AXJ4H200

**Project No.** : 2206C030  
**Equipment** : Tapo Smart Hub  
**Brand Name** : tp-link, tapo  
**Test Model** : Tapo H200  
**Series Model** : N/A  
**Applicant** : TP-Link Corporation Limited  
**Address** : Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road,  
Tsim Sha Tsui, Kowloon, Hong Kong  
**Manufacturer** : TP-Link Corporation Limited  
**Address** : Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road,  
Tsim Sha Tsui, Kowloon, Hong Kong  
**Date of Receipt** : Jul. 27, 2022  
**Date of Test** : Jul. 28, 2022 ~ Sep. 06, 2022  
**Issued Date** : Sep. 20, 2022  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.: DG20220728110, DG20220728108  
**Standard(s)** : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091  
FCC Title 47 Part 2.1091

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

*Chella Zheng*

Prepared by : Chella Zheng

*Chay Cai*

Approved by : Chay Cai



TESTING CERT #5123.02

### BTL Inc.

No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792 People's Republic of China.

Tel: +86-769-8318-3000

Web: [www.newbtl.com](http://www.newbtl.com)

Service mail: [btl\\_qa@newbtl.com](mailto:btl_qa@newbtl.com)

**REPORT ISSUED HISTORY**

| Report No.          | Version | Description     | Issued Date   | Note  |
|---------------------|---------|-----------------|---------------|-------|
| BTL-FCCP-3-2206C030 | R00     | Original Report | Sep. 20, 2022 | Valid |

## 1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792 People's Republic of China.

BTL's Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

## 2. 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

Table for Filed Antenna:

For 2.4GHz:

| Ant. | Brand           | P/N        | Antenna Type | Connector | Gain(dBi) |
|------|-----------------|------------|--------------|-----------|-----------|
| 1    | <b>TP-LINK®</b> | 3101504698 | PCB          | Weld      | 1.83      |
| 2    | <b>TP-LINK®</b> | 3101505257 | PCB          | Weld      | 1.75      |

For Sub 1G:

| Ant. | Brand           | P/N        | Antenna Type | Connector | Gain(dBi) |
|------|-----------------|------------|--------------|-----------|-----------|
| 1    | <b>TP-LINK®</b> | 3101505258 | PCB          | Weld      | -7.27     |

## 3. TEST RESULTS

For 2.4GHz:

| 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 |
|--------------------|------------------------|---------------------------------|--------------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 1.83               | 1.5241                 | 29.18                           | 0.8280                         | 0.25116                                 | 1                                                | Complies    |

For Sub 1G:

| Antenna Gain (dBi) | Antenna Gain (numeric) | Max. Output Power (dBm) | Max. Output Power (mW) | Power Density (S) (mW/cm <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | Test Result |
|--------------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| -7.27              | 0.1875                 | 17.32                   | 0.0540                 | 0.00201                                 | 1                                                | Complies    |

**For the max simultaneous transmission MPE:**

| Ratio   |         | Total   | Limit of Ratio | Test Result |
|---------|---------|---------|----------------|-------------|
| 2.4GHz  | Sub 1G  |         |                |             |
| 0.25116 | 0.00201 | 0.25317 | 1              | Complies    |

Note: The calculated distance is 20 cm.

Output power including tune up tolerance.

**End of Test Report**