Product Name: Tapo Smart IoT HUB	**Report No: FCC022022-05742RF14**
Product Model: Tapo H100	**Security Classification: Open**
Version: V1.0	**Total Page: 5**

TIRT Testing Report

Prepared By:	Checked By:	Approved By:	
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FCC RF EXPOSURE REPORT

FCC ID: 2AXJ4H100

Equipment	:	Tapo Smart IoT HUB
Brand Name	:	Tp-link, Tapo
Test Model	:	Tapo H100
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	:	2022.11.2
Date of Test	:	2022.11.2 ~ 2022.11.7 2022.11.24 ~ 2022.11.24
Issued Date	:	2022.11.24
Report Version	:	V2.0
Test Sample	:	Engineering Sample No.: 20221103019322
Standard(s)	:	FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091 FCC Title 47 Part 2.1091

- The test result referred exclusively to the presented test model /sample.
- Without written approval of TIRT Inc. the test report shall not reproduced except in full.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
FCC022022-05742RF14	V1.0	Compared with original report (BTL-FCCP-3-2104C175B), added the nominal operating frequency (920.9MHz, 921.7MHz), so the test result is recalculated.	2022.11.08	Invalid
FCC022022-05742RF14	V2.0	Modified the comments.	2022.11.24	Valid

1. TEST FACILITY

Company:	Beijing TIRT Technology Service Co.,Ltd Shenzhen
Address:	101, 3 # Factory Building, Gongjin Electronics, Shatin Community, Kengzi Street, Pingshan District, Shenzhen City, China
CNAS Registration Number:	CNAS L14158
A2LA Registration Number	6049.01
Telephone:	+86-0755-27087573

2. 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

For 2.4GHz:
Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	tp-link	N/A	Internal	N/A	1.73

Note: The antenna gain is provided by the manufacturer.

For Sub 1G:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	tp-link	N/A	Internal	N/A	-4.85

Note: The antenna gain is provided by the manufacturer.

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^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
1.73	1.4894	19.73	93.9723	0.02786	1	Complies

For Sub 1G:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Average Output Power (dBm)	Max. Average Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
-4.85	0.3273	15.44	34.9945	0.00228	1	Complies

For the max simultaneous transmission MPE:

Power Density (S) (mW/cm^2)	Power Density (S) (mW/cm^2)	Total	Limit of Power Density (S) (mW/cm^2)	Test Result
2.4GHz	Sub 1G			
0.02042	0.00228	0.02272	1	Complies

Note: The calculated distance is 20 cm.
Output power including tune up tolerance.

End of Test Report