FCC RF EXPOSURE REPORT

FCC ID: 2AXJ4S500

The other test data were reissue from the FCC ID: 2AXJ4KS200, model name: KS200. Model difference(s):
a. Changed the product name.
b. Changed the main chip to RTL8710CF from RTL8720CM.
c. Deleted the LDO, peripheral one resistor and three capacitors.
d. Deleted the flash and its surrounding resistance and capacitance devices.
e. Removed LE function through software.

Project No.	:	2205C096A
Equipment	:	Smart Wi-Fi Light Switch, Single Pole
Brand Name	:	tp-link
Test Model	:	Tapo S500
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	:	May 20, 2022 Aug. 22, 2022
Date of Test	:	May 23, 2022 ~ Jul. 14, 2022
Issued Date	:	Sep. 21, 2022
Report Version	:	R00
Test Sample	:	Engineering Sample No.: DG2022052066
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

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TESTING CERT #5123.02

BTL Inc.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2205C096A	R00	Original Report	Sep. 21, 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:

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

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	P/N	Antenna Type	Connector	Gain (dBi)
1	tp-link	6035500079	PIFA	N/A	2.98

Note: The antenna gain is provided by the manufacturer.

3. TEST RESULTS

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
2.98	1.9861	23.47	222.3310	0.08789	1	Complies

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

End of Test Report