

## RF EXPOSURE REPORT

Applicant	TP-Link Technologies Co., Ltd.
Address	Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China

Manufacturer or Supplier	TP-Link Technologies Co., Ltd.
Address	Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Product	Smart Wi-Fi Plug, 2-Outlet
Brand Name	tp-link
Model	HS107
Additional Model & Model Difference	N/A
Date of tests	Jan. 05, 2018 ~ Jan. 11, 2018

- **◯** IEEE C95.1

CONCLUSION: The submitted sample was found to **COMPLY** with the test requirement

Tootod by Horry Li	Approved by Clyp He
Tested by Harry Li Project Engineer/ EMC Department	Approved by Glyn He Supervisor / EMC Department
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Date: Jan. 29, 2018

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## **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS180105N021	Original release	Jan. 29, 2018

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### 1. CERTIFICATION

FCC ID:	TE7HS107		
PRODUCT:	Smart Wi-Fi Plug, 2-Outlet		
BRAND NAME:	tp-link		
MODEL NO.:	HS107		
ADDITIONAL NO.:	N/A		
TEST SAMPLE:	SAMPLE: Engineering Sample		
APPLICANT:	TP-Link Technologies Co., Ltd.		
STANDARDS: FCC Part 2 (Section 2.1091)			
	KDB 447498 D01		
	IEEE C95.1		

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#### 2. RF EXPOSURE LIMIT

#### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm²)	AVERAGE TIME (minutes)	
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE					
300-1500			F/1500	30	
1500-100,000			1.0	30	

F = Frequency in MHz

#### 3. MPE CALCULATION FORMULA

 $Pd = (Pout*G) / (4*pi*r^2)$ 

where

Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

#### 4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

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### 5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type	
Chain 0	3	PCB antenna	

#### 6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
2412-2462	172.187	3	20	0.0683	1.0

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