

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	Wi-Fi Smart Dimmer
Brand Name	tp-link
Model	HS220
Additional Model & Model Difference	N/A
Date of tests	Oct. 10, 2017 ~ Nov. 10, 2017

- **◯** FCC Part 2 (Section 2.1091)
- **⊠ KDB 447498 D01**
- **☐** IEEE C95.1

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

Tested by Harry Li Project Engineer/ EMC Department	Approved by Glyn He Supervisor / EMC Department

Date: Nov. 23, 2017

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS171010N017	Original release	Nov. 23, 2017

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1. CERTIFICATION

FCC ID:	TE7HS220		
PRODUCT:	Wi-Fi Smart Dimmer		
BRAND NAME:	tp-link		
MODEL NO.:	HS220		
ADDITIONAL NO.:	N/A		
TEST 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)

		MAGNETIC FIELD POWER DENSIT (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/cm²

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	2.98	PIFA 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)
2400-2483.5	114.025	2.98	20	0.0450	1.0

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