RF EXPOSURE REPORT

Applicant	TP-LINK TECHNOLOGIES CO., LTD.
Address	Building 24 (floors 1,3,4,5) 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 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Product	300Mbps Wireless N Ceiling Mount Access Point
Brand Name	TP-LINK
Model	CAP300
Additional Model & Model Difference	N/A
Date of tests	Apr. 07, 2016 ~ May 22, 2016

☒ **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. 08, 2016

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS160407N028	Original release	May 22, 2016
FS160927N056	Based on the original report FS160407N028 changed the model no. and replace adapter, add one of the function switch, It need to retested radiated emission below 1GHz and conducted emission after engineer evaluated.	Nov. 08, 2016

1. CERTIFICATION

PRODUCT:	300Mbps Wireless N Ceiling Mount Access Point
BRAND NAME:	TP-LINK
MODEL NO.:	CAP300
ADDITIONAL MODEL:	N/A
FCC ID:	TE7CAP300
TEST SAMPLE:	ENGINEERING SAMPLE
APPLICANT:	TP-LINK TECHNOLOGIES CO., LTD.
TESTED DATE:	Oct. 19, 2016
STANDARDS:	FCC Part 2 (Section 2.1091) KDB 447498 D01 IEEE C95.1

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/cm^2)	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^2

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**.

5. ANTENNA GAIN

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

Transmitter Circuit	Peak Gain (dBi)	Total Gain (dBi)	Antenna Type
Chain 0	3.2	6.21	Integral Antenna
Chain 1	3.2		Integral Antenna

Note: Total Gain=3.2+10log(N=2)=3.2+(3.01)=6.21dBi

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm^2)	LIMIT (mW/cm^2)
WLAN 2.4GHz	631.008	3.2	20	0.26228	1.0

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