



FCC TEST REPORT

FCC ID: 2A23GN3002

Product	:	Wi-Fi Smart Plug Dimmer
Model Name	:	N3002
Brand	:	NEW ONE
Report No.	:	PTC21082704001E-FC02
Prepared for		
Newone Trading Co., Ltd		
Jinlian commercial center 1001, Jinxiu road No.2, Changan Town, Dongguan City, GuangDongProv., CHINA		
Prepared by		
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TEST RESULT CERTIFICATION

Applicant's name : Newone Trading Co., Ltd
Address : Jinlian commercial center 1001, Jinxiu road No.2, Changan Town, Dongguan City, GuangDongProv., CHINA
Manufacturer's name : Newone Trading Co., Ltd
Address : Jinlian commercial center 1001, Jinxiu road No.2, Changan Town, Dongguan City, GuangDongProv., CHINA
Product name : Wi-Fi Smart Plug Dimmer
Model name : N3002
Test procedure : KDB 447498 D01 General RF Exposure Guidance v06
Test Date : Sep. 1, 2021 to Sep. 9, 2021
Date of Issue : Sep. 9, 2021
Test Result : Pass

This device described above has been tested by PTS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink that reads 'Leo Yang'.

Leo Yang / Engineer

Technical Manager:

A handwritten signature in black ink that reads 'Chris Du'.

Chris Du / Manager



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2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS
Remark:		
N/A: Not Applicable		



3 General Information

3.1 General Description of E.U.T.

Product Name	:	Wi-Fi Smart Plug Dimmer
Model Name	:	N3002
Additional model	:	N/A
Specification	:	802.11b/g/n HT20
Operation Frequency	:	2412-2462MHz for 802.11b/g; n(HT20)
Number of Channel	:	11 channels for 802.11b/g; n(HT20)
Type of Modulation	:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Antenna installation	:	PCB Antenna
Antenna Gain	:	1 dBi
Power supply	:	AC120V 60Hz
Hardware Version	:	V1
Software Version	:	V1



4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : FCC Part 2.1091

4.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density



4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } P_d \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$P_d = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

4.4 Test Result

Item	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Result
WIFI	1.26	17.385	54.7646	0.0137	1	Pass

Conclusion: Compliance with RF Exposure requirement.

----- End of Report -----