

# FCC RF EXPOSURE REPORT

#### **CERTIFICATION TEST REPORT**

For

**Wemo Smart Dimmer** 

**MODEL NUMBER: WDS070** 

FCC ID: K7S-WDS070

REPORT NUMBER: 4790220674.1-4

**ISSUE DATE: February 10, 2022** 

Prepared for

Belkin International, Inc. 555 S. Aviation Blvd., Suite 180, El Segundo, CA 90245, USA

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China

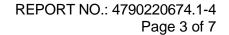
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REPORT NO.: 4790220674.1-4 Page 2 of 7

**Revision History** 

Rev.	Issue Date	Revisions	Revised By
V0	02/10/2022	Initial Issue	





# **TABLE OF CONTENTS**

1.	ATTESTATION OF TEST RESULTS	4
2.	TEST METHODOLOGY	5
3.	FACILITIES AND ACCREDITATION	5
4	REQUIREMENT	6



REPORT NO.: 4790220674.1-4 Page 4 of 7

### 1. ATTESTATION OF TEST RESULTS

**Applicant Information** 

Company Name: Belkin International, Inc.

Address: 555 S. Aviation Blvd., Suite 180, El Segundo, CA 90245, USA

**Manufacturer Information** 

Company Name: Belkin International, Inc.

Address: 555 S. Aviation Blvd., Suite 180, El Segundo, CA 90245, USA

**EUT Information** 

Stephen Guo

Laboratory Manager

EUT Name: Wemo Smart Dimmer

Model: WDS070 Brand: wemo

Sample Received Date: December 15, 2021

Sample Status: Normal Sample ID: 4492612

Date of Tested: December 15~31, 2021

APPLICABLE STANDARDS				
STANDARD	TEST RESULTS			
FCC 47CFR§2.1091	PASS			
KDB 447498 D01v06	PASS			

	KDB 447498 D01v06		PASS	
Prepared By:		Checked By:		
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Kebo Zhang Project Engineer		Shawn Wen Laboratory L	.eader	
Approved By:				
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REPORT NO.: 4790220674.1-4 Page 5 of 7

#### 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091, KDB 447498 D01 General RF Exposure Guidance v06.

# 3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01)
Accreditation Certificate	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.  FCC (FCC Designation No.: CN1187)  UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules ISED (Company No.: 21320)  UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.  VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)  UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793.  Facility Name:  Chamber D, the VCCI registration No. is G-20019 and R-20004  Shielding Room B, the VCCI registration No. is C-20012 and T-20011

Note: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China.

REPORT NO.: 4790220674.1-4 Page 6 of 7

### 4. REQUIREMENT

#### **LIMIT AND CALCULATION METHOD**

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

#### RF EXPOSURE LIMIT

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time  E ²,  H ² or S (Minutes)
0.3 1.34	614	1.63	(100)*	30
1.34 30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30 300	27.5	0.073	0.2	30
300 1500			f/1500	30
1500 100,000			1.0	30

## **CALCULATION METHOD**

 $S=PG/4\pi R^2$ 

Where:

S=power density

P=power input to 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



REPORT NO.: 4790220674.1-4 Page 7 of 7

## **CALCULATED RESULTS**

Worst Case						
Mode	Output Power	Antenna Gain	Power Density	Power Density Limit	Test Result	
Mode	dBm	dBi	mW/cm2	mW/cm2		
BLE	12.5	0.8	0.00425	1.0	Complies	

Worst Case						
Mode	Output Power	Antenna Gain	Power Density	Power Density Limit	Test Result	
Mode	dBm	dBi	mW/cm2	mW/cm2		
Thread	12	0.8	0.00379	1.0	Complies	

#### Note:

- 1. The Power comes from report operation description.
- 2. The EUT cannot support simultaneous emission.
- 3. The minimum separation distance of the device is greater than 20 cm.
- 3. Calculate by WORST-CASE mode.

**END OF REPORT**