

## RF Exposure Report

**Report No.:** SABBDKX-WTW-P21041107

**FCC ID:** K7SWDC010

**Test Model:** WDC010

**Received Date:** May 5, 2021

**Test Date:** May 14 to Jun. 30, 2021

**Issued Date:** Jun. 30, 2021

**Applicant:** Belkin International, Inc.

**Address:** 12045 East Waterfront Drive, Playa Vista, CA. 90094, USA

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Lin Kou Laboratories

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

**FCC Registration /  
Designation Number:** 198487 / TW2021



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### Report Issue History Record

Issue No.	Description	Date Issued
SABBDKX-WTW-P21041107	Original release.	Jun. 30, 2021

### Release Control Record

Issue No.	Description	Date Issued
SABBDKX-WTW-P21041107	Original release.	Jun. 30, 2021

## 1 Certificate of Conformity

**Product:** Doorbell Camera

**Brand:** wemo

**Test Model:** WDC010

**Sample Status:** Engineering sample

**Applicant:** Belkin International, Inc.

**Test Date:** May 14 to Jun. 30, 2021

**Standards:** FCC Part 2 (Section 2.1091)

**References Test Guidance:** KDB 447498 D01 General RF Exposure Guidance v06

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

**Prepared by :** Annie Chang, **Date:** Jun. 30, 2021  
Annie Chang / Senior Specialist

**Approved by :** Rex Lai, **Date:** Jun. 30, 2021  
Rex Lai / Associate Technical Manager

## 2 RF Exposure

### 2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
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

f = Frequency in MHz ; \*Plane-wave equivalent power density

### 2.2 MPE Calculation Formula

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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

### 2.3 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**.

### 2.4 Antenna Gain

The following antennas were provided to the EUT.

Frequency (MHz)	Ant. 1 Gain (dBi)	Ant. 2 Gain (dBi)	Antenna Type	Antenna Connector
2400	-1.1	0.8	PCB	I-pex
2450	-0.2	0.3		
2500	0.8	-1.0		
5150	2.9	2.6		
5250	3.6	3.8		
5350	3.8	4.0		
5725	4.5	2.9		
5850	4.5	3.6		

Note: The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

## 2.5 Calculation Result Of Maximum Conducted Power

Function	Frequency Band (MHz)	Max AV Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
WLAN	2412-2462	20.77	3.81	20	0.0571	1
WLAN	5180-5240	17.61	6.71	20	0.0538	1
WLAN	5260-5320	17.95	6.91	20	0.0609	1
WLAN	5500-5700	18.27	7.26	20	0.0711	1
WLAN	5745-5825	21.51	7.07	20	0.1435	1

Note:

Directional gain (2412-2462MHz) =  $10 \log[(10^{G1/20} + 10^{G2/20})^2/2] = 3.81\text{dBi}$

Directional gain (5180-5240MHz) =  $10 \log[(10^{G1/20} + 10^{G2/20})^2/2] = 6.71\text{dBi}$

Directional gain (5260-5320MHz) =  $10 \log[(10^{G1/20} + 10^{G2/20})^2/2] = 6.91\text{dBi}$

Directional gain (5500-5700MHz) =  $10 \log[(10^{G1/20} + 10^{G2/20})^2/2] = 7.26\text{dBi}$

Directional gain (5745-5825MHz) =  $10 \log[(10^{G1/20} + 10^{G2/20})^2/2] = 7.07\text{dBi}$

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. 2.4GHz & 5GHz WLAN technologies cannot transmit at same time.
3. Driver version: 1.0.2

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