

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

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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: Jun. 30, 2021

Annie Chang / Senior Specialist

Approved by: , 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 ²)	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 ²)*	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

 $Pd = (Pout*G) / (4*pi*r^2)$

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

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			
2450	-0.2	0.3			
2500	0.8	-1.0			
5150	2.9	2.6	DOD	l-pex	
5250	3.6	3.8	PCB		
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.

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2.5 Calculation Result Of Maximum Conducted Power

Function	Frequency Band (MHz)	Max AV Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)
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 $(2412-2462MHz) = 10 \log[(10^{G1/20} + 10^{G2/20})^2/2] = 3.81dBi$

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

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

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

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

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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