

RF Exposure Report

Report No.: SABGMK-WTW-P21030811-1

FCC ID: K7SAUF001V2

Test Model: AUF001 V2

Received Date: Mar. 23, 2021

Test Date: Apr. 20 to May 8, 2021

Issued Date: May 25, 2021

Applicant: Belkin International., Inc

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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Report Issue History Record

Issue No.	Description	Date Issued
SABGMK-WTW-P21030811-1	Original release.	May 25, 2021

Release Control Record

Issue No.	Description	Date Issued
SABGMK-WTW-P21030811-1	Original release.	May 25, 2021

1 Certificate of Conformity

Product: SOUNDFORM™ Charge Bluetooth Speaker + Wireless Charger

Brand: belkin

Test Model: AUF001 V2

Sample Status: Engineering sample

Applicant: Belkin International., Inc

Test Date: Apr. 20 to May 8, 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.

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Approved by : Rex Lai, **Date:** May 25, 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

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

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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 Calculation Result Of Maximum Conducted Power

Function	Frequency Band (MHz)	Max AV Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
BT EDR	2402-2480	0.85	4.98	20	0.0008	1

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. 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.
3. The worst MPE result of Qi function, refer to BV CPS report no.: SABGMK-WTW-P21030811.

Conclusion:

The formula of calculated the MPE is:

$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$

CPD = Calculation power density

LPD = Limit of power density

$BT + Qi = 0.0008 / 1.00 + 0.6928 / 1.63 = 0.4258$

Therefore the maximum calculations of above situations are less than the "1" limit.

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