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## RF Exposure Report

**Report No.:** SA150224E01A

**FCC ID:** K7SF9K1010V2

**Test Model:** F9K1010v2

**Received Date:** Feb. 24, 2015

**Test Date:** Apr. 29, 2015

**Issued Date:** May 12, 2015

**Applicant:** Belkin International, Inc.

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

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Hsin Chu Laboratory

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**Test Location (1):** No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen, Chiung Lin Hsiang, Hsin  
Chu Hsien 307, Taiwan R.O.C.

**Test Location (2):** No. 49, Ln. 206, Wende Rd., Shangshan Tsuen, Chiung Lin Hsiang, Hsin  
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**Release Control Record**

Issue No.	Description	Date Issued
SA150224E01A	Original release.	May 12, 2015



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## 1 Certificate of Conformity

**Product:** Wireless N300 Router

**Brand:** Belkin

**Test Model:** F9K1010v2

**Sample Status:** ENGINEERING SAMPLE

**Applicant:** Belkin International, Inc.

**Test Date:** Apr. 29, 2015

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

KDB 447498 D03

IEEE C95.1

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 EMC characteristics under the conditions specified in this report.

**Prepared by :** Phoenix Huang, **Date:** May 12, 2015  
Phoenix Huang / Specialist

**Approved by :** May Chen, **Date:** May 12, 2015  
May Chen / 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				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 2.2 MPE Calculation Formula

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

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 antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Brand	Model No.	Gain (dBi) (excluding cable loss)	Cable Loss (dB)	Net Gain (dBi)	Freq. Range (GHz to GHz)	Ant. Type	Connector Type	Cable Length (mm)
Chain (0)	SHENZHEN HFC TECHNOLOGY CO.,LTD	800000000344	3	0.25	2.75	2.4 ~ 2.4835	Dipole	NA	100
Chain (1)		800000000341	3	0.51	2.49	2.4 ~ 2.4835	Dipole	NA	200

### 3 Calculation Result of Maximum Conducted Power

The Maximum power was refer to the FCC test report (Report No.: RF150224E01)

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2412-2462	578.093	5.63	20	0.42046	1

**Note:** Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 5.63\text{dBi}$ .

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