

## RF Exposure Report

**Report No.:** SA150213D03

**FCC ID:** A94419896

**Test Model:** 419896

**Received Date:** Feb. 10, 2015

**Test Date:** Feb. 10 ~ Mar. 6, 2015

**Issued Date:** Mar. 16, 2015

**Applicant:** BOSE CORPORATION

**Address:** 100 The Mountain Road Framigham Massachusetts 01701-9168 United

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

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

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**Release Control Record**

| Issue No.   | Description       | Date Issued   |
|-------------|-------------------|---------------|
| SA150213D03 | Original release. | Mar. 16, 2015 |

## 1 Certificate of Conformity

**Product:** Wireless Speaker

**Brand:** BOSE

**Test Model:** 419896

**Sample Status:** Engineering sample

**Applicant:** BOSE CORPORATION

**Test Date:** Feb. 10 ~ Mar. 6, 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 :



, Date: Mar. 16, 2015

Jessica Cheng / Senior Specialist

Approved by :



, Date: Mar. 16, 2015

Rex Lai / Assistant 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

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

where

Pd = power density in mW/cm<sup>2</sup>

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**.

### 3 Calculation Result Of Maximum Conducted Power

| Bluetooth Version    |                 | Bluetooth 4.1 don't support BLE |               |                                     |                             |
|----------------------|-----------------|---------------------------------|---------------|-------------------------------------|-----------------------------|
| Frequency Band (MHz) | Max Power (dBm) | Antenna Gain (dBi)              | Distance (cm) | Power Density (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) |
| 2402 ~ 2480          | 5.53            | 6.67                            | 20            | 0.0033                              | 1                           |

--- END ---