

**To : Federal Communications Commission**

## **SAR Declaration**

### **1. Regulations**

According to § 15.247(b)(5) Systems operating under the provisions of this Section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this Chapter.

### **2. SAR Calculation**

This device is a Headset equipment using Bluetooth Technologies.  
Therefore the distance between radiating parts of device and human body is more than 2cm typically.  
The maximum output power of the device measured at the antenna connector is -4.09dBm and the maximum antenna gain is 2.2 dBi.  
Therefore the maximum radiated power is -1.89 dBm EIRP which equals 0.65mW

The maximum power in 2cm distance can be calculated as follows:

$$S = \text{EIRP} / (4\pi R^2) = 0.65 / (4\pi \cdot 4) = 0.013 \text{ mW/cm}^2$$

which is far below the MPE limits of 1 mW/cm<sup>2</sup>

Therefore the device meets the requirements of the clause 1 regulations.

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TUV Rheinland Korea Ltd.



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