

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 Handsfree equipment using Bluetooth Technologies. Therefore the distance between radiating parts of device and human body is more than 20cm typically. The maximum output power of the device measured at the antenna connector is -1.88dBm and the maximum antenna gain is -1.9dBi. Therefore the maximum radiated power is -3.78dBm EIRP which equals 0.42mW

The maximum power in 20cm distance can be calculated as follows:

$$S = \text{EIRP} / (4\pi R^2) = 0.42 / (4\pi * 20) = 0.0016 \text{ mW/cm}^2$$

which is far below the MPE limits of 1 mW/cm²

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

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