Analysis Report

The Equipment Under Test (EUT) is a Bluetooth version 2.1 speaker operating from 2402-2480MHz with 1MHz channel spacing. The EUT is powered by 1 x 3.7VDC rechargeable battery. After switch on the EUT and paired with smart device, music can be played by EUT. Also, Music can be played by AUX in cable.

Antenna Type: Internal antenna Antenna Gain: 0dBi Nominal rated field strength: 95.5dBµV/m at 3m Maximum allowed field strength of production tolerance: +/- 3dB

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 98.5dB μ V/m at 3m in frequency 2.4GHz, thus;

The EIRP = $[(FS*D)^2*1000 / 30] = 2.124$ mw

Conducted power = Radiated Power (EIRP) – Antenna Gain So;

Conducted Power = 2.124mW.

The SAR Exclusion Threshold Level: = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 * 5 / sqrt (2.480) mW = 9.53 mW

Since the above conducted output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.