Analysis Report

FCC ID: ZY9-BTS200M

The Equipment-Under-Test (EUT) 4000764 is a Auvio Mono Bluetooth Speaker with AUX in. The EUT contains a Bluetooth 2.1 radio. The EUT can accept both analog audio signal (AUX-in) and wireless audio signal via Bluetooth devices. The EUT has internal power amplifier and loudspeaker. It is powered by USB port (5VDC) which is for charging the internal 3.7V rechargeable battery.

Antenna Type: Internal, Integral

Antenna Gain: 0dBi

Operating mode Nominal Production Modulation

Radiated Tolerance Type

Field Strength

Bluetooth 91.8 dBµV/m at 3m +/- 3dB GFSK

According to the KDB 447498:

For Bluetooth:

Based on the Maximum allowed field strength of production tolerance was 94.8dBµV/m at 3m in frequency 2.480GHz, thus;

The EIRP = $[(FS*D) ^2*1000 / 30] = 0.906mW$

Conducted power = Radiated Power (EIRP) - Antenna Gain

So;

Conducted Power = 0.906mW.

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.