

Analysis Report

FCC ID: 2AIGJ1201784

The Equipment-Under-Test (EUT) 1201784 is a Bluetooth Portable Music Receiver. The EUT contains a Bluetooth radio which can accept wireless audio signal via Bluetooth devices. The Bluetooth module in the EUT is operating in the frequency range from 2402MHz to 2480MHz (79 channels with 1MHz channel spacing). The analog audio signal is then played back at the 3.5mm phone plug output. It is powered by internal 3.7V rechargeable batteries. The batteries can be charged by USB port (5VDC). Bluetooth 4.0 BLE is not use by the EUT.

Antenna Type: Internal, Integral

Antenna Gain: 0dBi

Nominal RF power range: +6dBm to +9dBm

According to the KDB 447498:

Maximum radiated power (EIRP) is 7.9mW (i.e. +9dBm), thus

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

Conducted Power = 7.9mW.

The SAR Exclusion Threshold Level:

$$\begin{aligned} &= 3.0 * (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}} \\ &= 3.0 * 5 / \sqrt{2.480} \text{ mW} \\ &= 9.53 \text{ mW} \end{aligned}$$

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.