

Analysis Report

FCC ID: RQU-TT182NPCBT

The Equipment Under Test (EUT) is a Bluetooth 3-Speed Stereo Turntable with Built-in Speakers and Pitch Control. It can accept input sources such as analog Aux-in (3.5mm phone jack), Phono (Long-Play Record), and wireless Bluetooth device. The Bluetooth module in the EUT is operating in the frequency range from 2402MHz to 2480MHz (79 channels with 1MHz channel spacing). The audio signal is amplified and fed to the built-in stereo loudspeakers. The EUT also has USB audio recording feature, analog line-out and headphone output. It is powered by 120VAC only.

2.4GHz Bluetooth Module:

Modulation Type: GFSK

Antenna Type: Integral, Internal (PCB Trace)

Frequency Range: 2402MHz - 2480MHz, 1MHz channel spacing, 79 channels

Nominal field strength is 88.8B μ V/m @ 3m

Production Tolerance of field strength is +/- 3dB

Antenna gain is 0dBi

According to the KDB 447498:

For Bluetooth:

Based on the Maximum allowed field strength of production tolerance was 91.8dB μ V/m at 3m in frequency 2.480GHz, thus;

The EIRP = $[(FS \cdot D)^2 \cdot 1000 / 30] = 0.454\text{mW}$

Conducted power = Radiated Power (EIRP) – Antenna Gain

So;

Conducted Power = 0.454mW.

The SAR Exclusion Threshold Level:

= $3.0 \cdot (\text{min. test separation distance, mm}) / \sqrt{\text{freq. in GHz}}$

= $3.0 \cdot 5 / \sqrt{2.480} \text{ mW}$

= 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.