## **Analysis Report**

Report No.: 14121030HKG-001

The Equipment Under Test (EUT) is a Flat Micro System with CD Player that can accept audio sources including CD, FM Tuner, analog line-in and, USB flash drive and 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 EUT is powered by 120VAC.

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  $100.6dB\mu V/m @ 3m$ Production Tolerance of field strength is +/- 3dBAntenna gain is 0dBi

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 103.6dB $_{\mu}$ V/m at 3m in frequency 2.4GHz, thus;

The EIRP =  $[(FS*D)^2*1000 / 30] = 6.873$ mW

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

Conducted Power = 6.873mW.

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.