

Analysis Report

Report No.: 18070925HKG-001

The Equipment Under Test (EUT) is a portable 2.4GHz Bluetooth device (Bluetooth 4.0 & 5.0) operating at frequency range of 2402MHz to 2480MHz with 2MHz channel spacing. For Bluetooth 4.0 and 5.0 mode, it occupies a frequency range from 2402MHz to 2480MHz (40 channels with channel spacing of 2MHz). It transmits via GFSK modulation.

The EUT is powered by 1 x 3.0V CR2016 battery.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Maximum allowed conductive power: 4 dBm

According to the KDB 447498:

Based on the Maximum allowed conductive power was 4 dBm in frequency 2.4GHz, thus;

Conducted Power = 4 dBm = 2.5mW.

The SAR Exclusion Threshold Level:

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

= $3.0 * 5 / \sqrt{2.480}$ 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.