

# Analysis Report

Report No.: 13121178HKG-003

The equipment under test (EUT) is a portable Bluetooth Wireless Tracker. The EUT contains a Bluetooth 4.0 (Single Mode BLE) transceiver. The Bluetooth 4.0 (Single Mode BLE) transceiver in the EUT is operating in the frequency range from 2402MHz to 2480MHz (40 channels with 2MHz channel spacing). The EUT is powered by 3.0 VDC (1 X 3.0V CR2016 battery).

Antenna Type: Internal integral antenna

Antenna Gain: +0.5dBi

Production tolerance: -7dBm (Minimum) to -5dBm (Maximum)

According to the KDB 447498:

Based on the Maximum allowed conducted power of production tolerance was -5.0dBm in frequency 2.4GHz, thus;

The Maximum conducted power is 0.32mW (i.e. -5.0dBm), thus;

The maximum conducted source-based time-averaging output power  
= 0.32 mW \* 100% = 0.32 mW.

The SAR Exclusion Threshold Level:

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

=  $3.0 * 5 / \text{sqrt}(2.480)$  mW

= 9.53 mW

Since the above conducted source-based time-averaged output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.