

Analysis Report

Report No.: 17110196HKG-001

The Equipment Under Test (EUT) is a portable 2.4GHz PTT smart button (Bluetooth) operating at the frequency range of 2402-2480MHz with 1 MHz channel spacing. The EUT is powered by 3.0V CR2032 Lithium battery. The EUT can be connected to the smart phone via Bluetooth.

Antenna Type: Internal integral antenna

Antenna Gain: 0.5dBi

Nominal rated field strength: 99.7dB μ V/m at 3m

Maximum allowed field strength of production tolerance: 99dBuV/m +/- 1dB

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 100 dB μ V/m at 3m in frequency 2.4GHz, thus;

The EIRP = [(FS*D) ^2*1000 / 30] = 3.000mW

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

Conducted Power = 2.674mW.

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.