Analysis Report

Report No.: 19011248HKG-001

The EUT is powered by 1 x 3.7V rechargeable battery. After switching on the EUT and being paired with the smart phone via Bluetooth (Bluetooth V4.0, BLE only), the user can press a sequence of commands via the smart phone app. Each command is either one forward/backward movement, left/right turn, or a pause. When the "Go" button is pressed, the unit will execute all the commands stored in order with a short pause between each command.

Antenna Type: Internal, Integral

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Antenna Gain: 0dBi

Nominal rated field strength: 93.10dBµV/m at 3m

Maximum allowed field strength of production tolerance: +/- 3dB

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 96.10dBμV/m at 3m.

Thus, it below calculated field strength according to minimum SAR exclusion threshold level as follows:

The worst case of SAR Exclusion Threshold Level:

- = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 * 5 / sqrt (2.483.5) mW
- = 9.52 mW

According to the KDB 412172 D01:

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

Calculated Field Strength for 9.52mW is 105dBuV/m at 3m

Since maximum field strength plus production tolerance <= 105dBuV/m at 3m and antenna gain is >= 0.0dBi, it is concluded that maximum Conducted Power and Field Strength are well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.