

# Analysis Report

Report No.: 13020527HKG-001  
FCC ID: AAO4300124C

The equipment under test (EUT) is an intercom operating at 910 – 913MHz. The EUT is powered by 6.0VDC (4X "AA" size rechargeable batteries or AC/DC adaptor). The EUT will transmit RF signal to the corresponding receiver portion and the user can talk to each other with same channel selection.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 90.1dB $\mu$ V/m at 3m

Allowed field strength of production tolerance:  $\pm 3$  dB

Maximum allowed field strength of production: 93.1dB $\mu$ V/m @ 3m (-4.3dBm)

According to the KDB 447498:

Based on the Maximum allowed field strength of production was 93.1dB $\mu$ V/m at 3m in frequency 913MHz, thus;

The EIRP =  $[(FS \cdot D)^2 \cdot 1000 / 30] = 0.613\text{mW}$

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

So, Conducted Power = 0.613mW

Threshold =  $3.0 \cdot (\text{min. test separation distance, mm}) / \text{SQRT}(f \text{ in GHz})$

=  $3.0 \cdot (5 / \text{SQRT}(0.913)) = 15.7\text{mW}$

Since the above maximum output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.