## **Analysis Report**

The Equipment Under Test (EUT) is a 2.4GHz toy walkie-talkie operating at 2407MHz. The EUT is powered by 2 X 1.5V AAA batteries. After switch on the EUT and paired with another walkie-talkie, the EUT can communicate with another walkie-talkie.

Antenna Type: External integral antenna Antenna Gain: 0dBi Nominal rated field strength: 94.1dBµV/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 97.1dB $\mu$ V/m at 3m in frequency 2.4GHz, thus;

The EIRP =  $[(FS*D)^{2*1000} / 30] = 1.539 \text{mW}$ 

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

Conducted Power =1.539mW.

The SAR Exclusion Threshold Level: = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 \* 5 / sqrt (2.475) 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.