## **Analysis Report**

The Equipment Under Test (EUT) is a 433MHz transmitter. The EUT is powered by 3.0VDC (1 x 3.0V CR2032 battery). After pressing the button on the EUT, it will transmit a signal to turn on the receiver (Puck Light).

Antenna Type: Internal antenna

Antenna Gain: 0dBi

Nominal rated field strength: 78.3 dBµV/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  $81.3 dB\mu V/m$  at 3m in frequency 433MHz, thus;

The EIRP =  $[(FS*D)^2*1000 / 30] = 0.04 \text{mW}$ 

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

Conducted Power = 0.04 mW.

The SAR Exclusion Threshold Level:

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

= 3.0 \* 5 / sqrt (0.433.92) mW

= 22.77 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.