## **Analysis Report**

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Mouse Unit) for a RC Mouse. The sample supplied operated on single channel, normally at 2440MHz.

The EUT is powered by 1 x 3.7V Rechargeable battery. After switching on the EUT, the mouse will be moved forward or backward and turned left and right based on the switches pressed in the controller.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 97.9 dB $\mu$ V/m at 3m Maximum allowed production tolerance: +/- 3dB

According to the KDB 447498:

Based on the maximum average field strength of production tolerance was 100.9dB $\mu$ V/m at 3m in frequency 2.440GHz.

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 @3m

Since maximum average field strength plus production tolerance < = 105dBuV/m @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.