Analysis Report

Report No.: 14060103HKG-001

The Equipment Under Test (EUT) is a portable transmitter of a RC boat operating at 27.145 MHz as dictated by a crystal. The EUT is powered by 1 x 9V block size battery. The EUT has two control keys to control forward / backward and left / right movement of the receiver.

After switching ON the EUT and the receiver of the RC boat, activating the control keys on the EUT can control the receiver moving forward, backward, left and right.

Antenna Type: External, telescope type antenna with unique antenna connector

Antenna Gain: 0dBi

Nominal rated field strength: 68.5dBµV/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 71.5dBµV/m at 3m in frequency 27.145MHz, thus;

The EIRP = $[(FS*D)^2*1000 / 30] = 0.00424$ mW

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

Conducted Power = 0.00424mW.

The SAR Exclusion Threshold Level for 27.145MHz when the minimum test separation distance is < 50mm:

= [474 * (1 + log100/f(MHz))]/2

= 371.2 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.