INTERTEK TESTING SERVICES

Analysis Report

The equipment under test (EUT) is a portable transmitter for a 1:14 R/C,Asst operating at 27.145MHz. The EUT is powered by two 1.5V AAA size batteries. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna Antenna Gain: 0dBi The nominal conducted output power specified: -21.0dBm (+/- 3dB) The nominal radiated output power (e.r.p) specified: -23.15dBm (+/- 3dB) Modulation Type: Pulse modulation

According to the KDB 447498:

The worst-case peak radiated emission for the EUT is 73.6dBµV/m at 3m in the frequency 27.145MHz The EIRP = [(FS*D) ^2 / 30] mW= -21.63dBm The ERP = EIRP - 2.15 = -23.78 dBm which is within the production variation.

The maximun conducted output power specified is -18dBm =0.02mW The source- based time-averaging conducted output power = 0.02* Duty Cycle mW < 0.02mW (Duty Cycle<100%)

The SAR Exclusion Threshold Level for 27.145MHz when the minimum test separation distance is < 50mm: = 474 * [1 + log(100/f(MHz)]/2 = 371.2 mW

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

Transmitter Duty Cycle Calculation The duration of one cycle = 89.8ms Effective period of the cycle = 0.72ms x 1 + 0.2ms x 13=3.32ms DC = 3.32ms / 89.8ms= 0.0370 or 3.7%