INTERTEK TESTING SERVICES

Analysis Report

The equipment under test (EUT) is a Baby Monitor - Parent Unit with 2.4GHz wireless control function operating in 2414-2468MHz. There are total 19 channels. The EUT is powered by 3.7V rechargeable battery which can be charged by a AC adaptor(100-240VAC to 5.0VDC 0.6A). For more detail information pls. refer to the user manual.

Modulation Type: GFSK Antenna Type: Integral antenna (Gain: 0 dBi)

The nominal radiated output power (e.i.r.p) specified: 12dBm (Tolerance: +/-1dB) The nominal conducted output power specified: 12dBm (Tolerance: +/-1dB)

According to the KDB 447498:

The maximum radiated emission for the EUT is 108.1dBµV/m at 3m in the frequency 2.468GHz = [(FS*D) ^2 / 30] mW

= 12.87dBm which is within the production variation

The minimum radiated emission for the EUT is $107.9dB\mu V/m$ for at 3m in the frequency 2.441GHz = [(FS*D) ^2 / 30] mW = 12.67dBm which is within the production variation

The maximun conducted output power specified is 13dBm = 19.95mW The source- based time-averaging conducted output power = 19.95 * Duty cycle mW = 19.95 mW * 5.072% = 1.01 mW

The SAR Exclusion Threshold Level: = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 * 5 / sqrt (2.468) mW = 9.55 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 = 100 msEffective period of the cycle = 5.072 msDC = 5.072 ms / 100 ms = 0.05072 or 5.072%