

## Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Controller Unit) for a RC baby. The sample supplied operated on 21 channels, normally at 2418 - 2462MHz. The channels are separated as the table below:

<b>2418MHz</b>	<b>2420MHz</b>	<b>2422MHz</b>	<b>2424MHz</b>
<b>2426MHz</b>	<b>2428MHz</b>	<b>2430MHz</b>	<b>2434MHz</b>
<b>2436MHz</b>	<b>2438MHz</b>	<b>2440MHz</b>	<b>2442MHz</b>
<b>2444MHz</b>	<b>2446MHz</b>	<b>2450MHz</b>	<b>2452MHz</b>
<b>2454MHz</b>	<b>2456MHz</b>	<b>2458MHz</b>	<b>2560MHz</b>
<b>2462MHz</b>			

The EUT is powered by 2 x 1.5V AAA batteries. After switching on the EUT, the EUT can emit light and sound. The baby will response to the EUT, emit light and sound.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 72.3dB $\mu$ V/m at 3m (Peak), 43.7dB $\mu$ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (TRSF4A020B) acts as voice MCU
2. U2 (HW2578A) acts as modulator and RF power amplifier
3. Y1 acts as 24MHz Oscillator
4. C1, C2 and L1 act as antenna matching circuit
5. SPK1 acts as speaker