

## Technical Description

**The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Controller Unit) for a RC Skateboard. The sample supplied operated on 36 channels, normally at 2423 - 2462MHz. The channels are shown in below table.**

<b>2423</b>	<b>2424</b>	<b>2425</b>	<b>2426</b>	<b>2427</b>
<b>2428</b>	<b>2429</b>	<b>2430</b>	<b>2433</b>	<b>2434</b>
<b>2435</b>	<b>2436</b>	<b>2437</b>	<b>2438</b>	<b>2439</b>
<b>2440</b>	<b>2441</b>	<b>2442</b>	<b>2443</b>	<b>2444</b>
<b>2445</b>	<b>2446</b>	<b>2448</b>	<b>2450</b>	<b>2451</b>
<b>2452</b>	<b>2453</b>	<b>2454</b>	<b>2455</b>	<b>2456</b>
<b>2457</b>	<b>2458</b>	<b>2459</b>	<b>2460</b>	<b>2461</b>
<b>2462</b>				

**The EUT is powered by 2 x 1.5V AAA batteries. After switching on the EUT, the skateboard 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 93.7dB $\mu$ V/m at 3m (Peak), 73.1dB $\mu$ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (PAN2010) acts as MCU
2. Y1 acts as 16MHz Oscillator
3. L1, C4 and C10 act as antenna matching circuit
4. U6 acts as stabilivolt.