

## Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Bike Unit) for a RC Motor Bike. The sample supplied operated on 38 channels, normally at 2420 - 2462MHz. The channels are shown in below table.

2420	2421	2422	2423	2424
2425	2426	2427	2428	2429
2430	2431	2434	2435	2436
2437	2438	2439	2440	2441
2442	2443	2444	2445	2446
2450	2451	2452	2453	2454
2455	2456	2457	2458	2459
2460	2461	2462		

The EUT is powered by 2 x 1.85V Lithium-ion batteries. After switching on the EUT, the bike 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 80.5dB $\mu$ V/m at 3m (Peak), 58.9dB $\mu$ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (PAN2416) acts as MCU
2. Y1 acts as 16MHz Oscillator
3. L1, L2, C2, C4 and C6 act as antenna matching circuit
4. U2 (XT4097) acts as charging circuit
5. U3 (SA8302) acts as motor driving circuit
6. U4 acts as stabilivolt.