

Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Controller Unit) for a RC Car. The sample supplied operated on 33 channels, normally at 2420 - 2465MHz. The channels are shown in below table.

| | | | | |
|------|------|------|------|------|
| 2420 | 2421 | 2423 | 2424 | 2425 |
| 2426 | 2427 | 2428 | 2430 | 2434 |
| 2436 | 2437 | 2438 | 2439 | 2440 |
| 2441 | 2442 | 2443 | 2444 | 2445 |
| 2446 | 2451 | 2452 | 2453 | 2454 |
| 2455 | 2456 | 2457 | 2458 | 2459 |
| 2460 | 2461 | 2465 | | |

The EUT is powered by 2 x 1.5V AAA batteries. After switching on the EUT, the car 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 97.0dB μ V/m at 3m (Peak), 72.9dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (PAN2416AF) acts as MCU
2. Y1 acts as 16MHz Oscillator
3. C1, C2, C7, L1 and L2 act as antenna matching circuit.