

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. Water vapor will be emitted from the car based on the button pressed in the controller.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 101.3dB μ V/m at 3m (Peak), 74.6dB μ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U2 (PAN2416AF) acts as MCU
2. Y1 acts as 16MHz Oscillator
3. L3, L4, C9, C10 and C11 act as antenna matching circuit.