

## Technical Description

The Equipment Under Test (EUT), is a portable 2.4GHz Transceiver (Controller Unit) for a RC Monster Truck. The sample supplied operated on 46 channels, normally at 2420 – 2465MHz. The channels are separated with 1MHz spacing.

The EUT is powered by 2 x 1.5V AAA batteries. The truck has 2 modes, the “TRY ME” mode and the on mode. For the “TRY ME” mode, after switching on the EUT, light and sound will be emitted or turned off from the truck based on the switch pressed on the truck. For the on mode, the truck has all the functions that the “TRY ME” mode has. In addition, the truck will be moved forward or backward and turned left and right based on the switches pressed in the controller. Sound will be emitted or turned off from the truck based on the button pressed in the controller.

Antenna Type: Internal, Integral antenna

Antenna Gain: 0dBi

Nominal rated field strength is 93.5dB $\mu$ V/m at 3m (Peak), 83.3dB $\mu$ V/m at 3m (Average)

Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 acts as MCU
2. Y1 acts as 16MHz Oscillator
3. L1, C3 and C4 act as antenna matching circuit