Technical Description

The Equipment Under Test (EUT), is a 2.4GHz Transceiver (Crane Unit) for a RC Crane. The sample supplied operated on 71 channels, normally at 2405 - 2475MHz. The channels are separated with 1MHz spacing.

The EUT is powered by 6 x 1.5V AA batteries. After switching on the EUT, it emits light and sound and its motors will rotate in different directions based on the switches pressed in the controller.

Antenna Type: Internal, Integral antenna
Antenna Gain: 0dBi
Nominal rated field strength is 91.3dBµV/m at 3m (Peak), 71.2dBµV/m at 3m (Average)
Maximum allowed production tolerance: +/- 3dB

The brief circuit description is listed as follows:

1. U1 (HJD84A) acts as MCU
2. Y1 acts as 24MHz Oscillator
3. C13, L1 and L2 act as antenna matching circuit
4. U2 (ME6206) acts as voltage regulator
5. U5 (BDR6126S) acts as motor driver for M1
6. U6 (BDR6126S) acts as motor driver for M2
7. U7 (BDR6126S) acts as motor driver for M3
8. U4 (GPC74-32C) acts as sound controller