

Analysis Report

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

The EUT is powered by 2 x 1.5V AAA batteries. After switching on the EUT, the pill bug will move in different directions or roll its body based on the switches pressed in the EUT.

2.4GHz portion

Antenna Type: Internal, Integral

Antenna Gain: 0dBi

Conducted Power range is -15dBm to 0dBm

According to the KDB 447498 D01 V04:

Conducted Power (max)

= 0 dBm

= 1 mW

The SAR Exclusion Threshold Level:

= $3.0 * (\text{min. test separation distance, mm}) / \text{sqrt}(\text{freq. in GHz})$

= $3.0 * 5 / \text{sqrt}(2.480)$ mW

= 9.53 mW

Since the above conducted output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.