INTERTEK TESTING SERVICES

RF Exposure

The equipment under test (EUT) is an 1:24 R/C Asst.(1:24 Radio Control Vehicle (2.4GHz Version) ~ Volkswagen Van "Samba") operating at 2.4G Band. The EUT can be powered by DC 3.0V (2 x 1.5V AAA batteries). For more details information pls. refer to the user manual.

Antenna Type: Integral antenna.

Antenna Gain: 0dBi.

The normal radiated output power (e.i.r.p) is: -1.0dBm (tolerance: +/- 3dB). The normal conducted output power is -1.0dBm (tolerance: +/- 3dB). Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is $96.9dB\mu V/m$ at 3m in the frequency 2421MHz The EIRP = [(FS*D) ^2 / 30] mW = 1.67dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is $91.9dB\mu V/m$ at 3m in the frequency 2478MHz The EIRP = [(FS*D) ^2 / 30] mW = -3.33dBm which is within the production variation.

The maximum conducted output power specified is 2.0dBm= 1.585mW The source- based time-averaging conducted output power =1.585mW

The SAR Exclusion Threshold Level: = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 * 5 / sqrt (2.478) mW = 9.53 mW

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

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