

## INTERTEK TESTING SERVICES

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### RF Exposure

The Equipment under Test (EUT) is a USB Dongle unit for PS3 Pro wireless realtree controller model: 22020902-DA operating at 2.4GHz band. It is powered by PS3 USB port. For more detail 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 96.4dB $\mu$ V/m at 3m in the frequency 2405MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = 1.2dBm

which is within the production variation.

The Minimum peak radiated emission for the EUT is 94.8dB $\mu$ V/m at 3m in the frequency 2440MHz

The EIRP =  $[(FS \cdot D)^2 / 30]$  mW = -0.4dBm

which is within the production variation.

The maximum conducted output power specified is 4.0dBm = 2.5mW

The source- based time-averaging conducted output power

= 2.5 \* Duty Cycle mW= 0.8 mW

The SAR Exclusion Threshold Level:

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

= 3.0 \* 5 / sqrt(2.475) mW

= 9.5 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.

Transmitter Duty Cycle Calculation

The duration of one cycle = 1.25ms

Effective period of the cycle = 0.39ms

DC =  $0.39\text{ms} / 1.25\text{ms} = 0.312$  or 31.2%

This requirement is according to KDB 865664 D02