## INTERTEK TESTING SERVICES

## **RF Exposure**

The equipment under test (EUT) is a CYKLONE DRIFT operating at 2.4G Band. The EUT can be powered by DC 3.0V (2 x 1.5V AA batteries). 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: 3.0dBm (tolerance: +/- 3dB).

The normal conducted output power is 3.0dBm (tolerance: +/- 3dB).

Modulation Type: GFSK.

According to the KDB 447498:

The Maximum peak radiated emission for the EUT is  $100.7 dB\mu V/m$  at 3m in the frequency 2475 MHz

The EIRP =  $[(FS*D) ^2 / 30]$  mW = 5.47dBm which is within the production variation.

The Minimum peak radiated emission for the EUT is  $98.8dB\mu V/m$  at 3m in the frequency 2405MHz

The EIRP =  $[(FS*D) ^2 / 30] \text{ mW} = 3.57 \text{dBm}$  which is within the production variation.

The maximum conducted output power specified is 6.0dBm= 3.981mW
The source- based time-averaging conducted output power
=3.981\* Duty cycle mW <3.981 mW(Duty cycle <100%)

The SAR Exclusion Threshold Level:

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

= 3.0 \* 5 / sqrt (2.475) 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.

The duty cycle is simply the on-time divided by the period:

The duration of one cycle = 7.0145msEffective period of the cycle =  $1913\mu s \times 1 = 1.913ms$ DC =1.913ms / 7.0145ms =0.2727 or 27.27%

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