## INTERTEK TESTING SERVICES

## **Analysis Report**

The equipment under test (EUT) is a Temperature & Humidity Sensor with operation frequency is 906.6MHz. The EUT was powered by 3Vdc (2 x 1.5Vdc AAA Batteries). For more detail information pls. refer to the user manual.

Modulation Type: 2-GFSK

Antenna Type: Integral antenna

Antenna Gain: 0dBi

The Peak nominal radiated emission power (e.r.p) specified: 4.35dBm (Tolerance: +/-

3dB)

The Peak nominal conducted output power specified: 6.5dBm (Tolerance: +/- 3dB)

According to the KDB 447498:

The worst-case radiated emission for the EUT is 103.9dBµV/m at 3m in the frequency 906.6MHz

- $= [(FS*D)^2 / 30] \text{ mW-2.15}$
- = 6.52dBm which is within the production variation.

The maximum conducted output power specified is 9.5dBm = 8.91mW

The source- based time-averaging conducted output power

= 8.9 \* Duty cycle mW= 0.48 mW

The SAR Exclusion Threshold Level:

- = 3.0 \* (min. test separation distance, mm) / sqrt(freq. in GHz)
- = 3.0 \* 5 / sqrt (0.9066) mW
- = 15.75 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

Duty cycle = 6.72 / 100 = 6.72%

This requirement is according to KDB 865664 D02

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