

Analysis Report

Report No.: 15050764HKG-001

The WT830/TC is a Room Sensor Unit. It operates at frequency range of 918MHz to 924MHz with 25 channels. It is powered on by 3.0VDC (2 x 1.5 AAA Batteries). The EUT can be communicated with the Zone Output Unit (ZN020/TC). In OFF mode, zone damper will be off and the EUT only display room temperature. In ON mode, the EUT display the set point value at the top left corner. User can press up/ down to change set point. The EUT can also enter Internal Setting mode, add/drop mode by pressing the relating button by following the User Manual.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal conducted power: 5dBm

Maximum allowed conducted power of production tolerance: +2dB / - 2dB

According to the KDB 447498:

Based on the Maximum allowed conducted power of production tolerance was 7dBm in frequency 924MHz, thus;

Conducted Power = 5.012mW

The SAR Exclusion Threshold Level:

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

= $3.0 * 5 / \sqrt{0.924}$ mW

= 15.6 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.