

Analysis Report

Report No.: 15050764HKG-002

The ZN020/TC is a Zone Output Unit. It operates at frequency range of 918MHz to 924MHz with 25 channels. It is powered on by 24VAC. The EUT can be mounted on Din rail or on wall directly and it can also communicate with the Room Sensor Unit (WT830/TC). The Room Sensor can be added to the EUT by entering add/ drop mode, then the EUT can choose the zone system by using the dip switch.

Antenna Type: Internal integral antenna

Antenna Gain: 0dBi

Nominal conducted power: 8dBm

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 10dBm in frequency 924MHz, thus;

Conducted Power = 10mW

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.