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Report No.: 1911WSU017-U2 Report Version: V01 Issue Date: 12-03-2019

RF Exposure Evaluation Declaration

FCC ID: 2ATY4-C4220300

SHANGHAI UNISPLENDOR LELIAN INTERNET OF APPLICANT:

THINGS TECHNOLOGY CO.,LTD.

Application Type: Certification

Product: Intelligent thermostat

Model No.: C4220300

FCC Classification: Digital Transmission System (DTS)

Test Procedure(s): KDB 447498 D01v06

Test Date: November 28, 2019

Reviewed By: Com Con

Kevin Guo

Approved By: Robin Wu

Robin Wu)



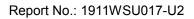


The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

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Revision History

| Report No. | Version | Description | Issue Date | Note |
|---------------|---------|----------------|------------|-------|
| 1911WSU008-U2 | Rev. 01 | Initial report | 12-03-2019 | Valid |
| | | | | |

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1. PRODUCT INFORMATION

1.1. Equipment Description

| Product Name: | Intelligent thermostat |
|---------------------|---------------------------|
| Model No.: | C4220300 |
| Frequency Range: | 802.15.4: 2405 ~ 2475 MHz |
| Type of Modulation: | O-QPSK |
| Date Rate: | 250kbps |
| Type of Antenna: | PIFA Antenna |
| Antenna Gain: | 2dBi |

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2. RF Exposure Evaluation

2.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency Range | Electric Field | Magnetic Field | Power Density | Average Time | |
|---|----------------|----------------|-----------------------|--------------|--|
| (MHz) | Strength (V/m) | Strength (A/m) | (mW/cm ²) | (Minutes) | |
| (A) Limits for Occupational/ Control Exposures | | | | | |
| 300-1500 | - | 1 | f/300 | 6 | |
| 1500-100,000 | | | 5 | 6 | |
| (B) Limits for General Population/ Uncontrolled Exposures | | | | | |
| 300-1500 | | | f/1500 | 6 | |
| 1500-100,000 | | | 1 | 30 | |

f= Frequency in MHz

Calculation Formula: $Pd = (Pout*G)/(4*pi*r^2)$

Where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

r = distance between observation point and center of the radiator in cm

Pd is the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

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2.2. Test Result of RF Exposure Evaluation

| Product | Intelligent thermostat |
|-----------|------------------------|
| Test Item | RF Exposure Evaluation |

| Test Mode | Frequency Band | Maximum EIRP | Power Density at | Limit |
|-----------|----------------|--------------|-----------------------|-----------------------|
| | (MHz) | (dBm) | R = 20 cm | (mW/cm ²) |
| | | | (mW/cm ²) | |
| 802.15.4 | 2405 ~ 2475 | 17.18 | 0.0103 | 1 |

CONCULISON:

The max Power Density at R (20 cm) = 0.0103mW/cm² < 1 mW/cm² for this device.

Therefore, the Min Safety Distance is 20cm.

———— The End





Appendix A - Test Setup Photograph

Refer to "1911WSU017-UT" file.

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Appendix B - EUT Photograph

Refer to "1911WSU017-UE" file.

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