RF EXPOSURE REPORT

For

Xiamen Milesight IoT Co., Ltd.

Building C09, Software Park Phase III, Xiamen 361024,Fujian, China

FCC ID: 2AYHY-WT30X

Report Type:	**Product Name:**
Original Report	Smart Fan Coil Thermostat

Report Number:	2507R50071E-RF-02
Report Date:	2025-09-09
Reviewed By:	Ash Lin
Approved By:	Miles Chen
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TABLE OF CONTENTS

REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2507R50071E-RF-02	R1V1	2025-09-09	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product Name:	Smart Fan Coil Thermostat
Tested Model:	WT304-915M, WT303-915M
Multiple Model(WT304-915M):	NN304-915M, WT304, NN304
Multiple Model(WT303-915M):	NN303-915M, WT303, NN303
Trade mark:	Milesight
Power Supply:	AC 100-240V, 50/60Hz
Maximum Peak Conducted Output Power:	7.37dBm
Frequency Range:	902.3-927.6MHz
Modulation Technique:	CSS
Antenna Type:	PCB
★Maximum Antenna Gain:	-4.15dBi
EUT Received Status:	Good

Note:
1. The Maximum Antenna Gain was declared by manufacturer.
2. The WT303 series has 5 relay interfaces, while the WT304 series has 3 relay interfaces and 2 more 0-10V analog output interfaces. The difference of tested model and multiple models as below, please refer to declaration letter for more details.

	Model	Difference
WT304 series	WT304-915M,NN304-915M, WT304,NN304	Model difference
WT303 series	WT303-915M,NN303-915M, WT303,NN303	Model difference

3. The EUT supplied by the applicant was received on 2025-03-25.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Xiamen) to collect test data is located on the Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone XiaMen.

Bay Area Compliance Laboratories Corp. (Xiamen) Lab is accredited to ISO/IEC 17025 by A2LA (Certificate Number: 7134.01) and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN1384.

FCC§15.247 (i), §1.1307(b)(1) & §2.1091 – MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to FCC §1.1307(b)(1) & §2.1091, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Limits for Maximum Permissible Exposure (MPE)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f^2)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;
According to §1.1307(b)(1) & §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance
$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm^2);
P = power input to the antenna (in appropriate units, e.g., mW);
G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

Calculated Data:

Mode	Frequency (MHz)	★Antenna Gain		★Tune-up Output Power		Evaluation Distance (cm)	Power Density (mW/cm^2)	MPE Limt (mW/cm^2)
		(dBi)	(numeric)	(dBm)	(mW)			
LoRa 125k	902-928	-4.15	0.38	7.5	5.62	20	0.0004	0.61

Note: 1. The Tune-up output power was declared by the Manufacturer.

Result: The device meets MPE at distance 20cm.

EUT PHOTOGRAPHS

Please refer to the attachment 2507R50071E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2507R50071E-RF-INP EUT INTERNAL PHOTOGRAPHS.

Declarations

1. Bay Area Compliance Laboratories Corp. (Xiamen) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk "★".

2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.

3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.

4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor k=2 with the 95% confidence interval.

5. This report cannot be reproduced except in full, without prior written approval of Bay Area Compliance Laboratories Corp. (Xiamen).

6. This report is valid only with a valid digital signature. The digital signature may be available only under the adobe software above version 7.0.

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