ACCREDITED
CERTIFICATE #5473.01

Test Report No.:
FCC2021-0029-EMF

EMC Test Report

EUT	:	**Environment Monitoring Sensor**
MODEL	:	**EM300-SLD-915M**
BRAND NAME	:	**Milesight**
APPLICANT	:	**Xiamen Milesight IoT Co., Ltd.**
Classification Of Test	:	**N/A**

CVC Testing Technology Co., Ltd.

Applicant	**Name : Xiamen Milesight IoT Co., Ltd.** **Address : 4/F,NO. 63-2 Wanghai Road, 2nd Software Park,Xiamen ,China**
Manufacturer	**Name : Xiamen Milesight IoT Co., Ltd.** **Address : 4/F,NO. 63-2 Wanghai Road, 2nd Software Park,Xiamen ,China**
Equipment Under Test	**Name : Environment Monitoring Sensor** **Model/Type: EM300-SLD-915M** **Trade mark : Milesight** **Serial NO.:N/A** **Sample NO.:6-1**

Date of Receipt.	**2021.09.8**	Date of Testing	**2021.09.08～2021.11.04**

Test Specification	**Test Result**
FCC Part 2 (Section 2.1091) **KDB 447498 D01** **IEEE C95.1**	PASS

Evaluation of Test Result	The equipment under test was found to comply with the requirements of the standards applied. **Issue Date: 2021.11.05**

Tested by:	Reviewed by:	Approved by:
Xu ZhenFei	Liu YongHai	Chen HuaWen
Name Signature	Name Signature	Name Signature

Other Aspects: NONE.

Abbreviations:OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCC2021-0029-EMF	Original release	2021.11.05

1. GERTIFICATION

FCC ID	Milesight
PRODUCT	Environment Monitoring Sensor
BRAND	Milesight
MODEL	EM300-SLD-915M
ADDITIONAL MODEL	EM300-ZLD-915M,EM300-MCS-915M,EM300-TH-915M
APPLICANT	Xiamen Milesight IoT Co., Ltd.
STANDARDS	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1

Remark:

1. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. Additional models (see about table) are identical with the test model EM300-SLD-915M only difference between models is that some function devices paste or not paste.

EUT photo refer to the report (Report NO.: FCC2021-0029-E).

2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm^2)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	…	…	F/1500	30
1500-100,000	…	…	1.0	30

F = Frequency in MHz

3. MPE CALCULATION FORMULA

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

where

Pd = power density in mW/cm^2

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

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	1	PCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
DR0	902.3-914.9	4	+-1	3	5
DR8	903-914.2	4	+-1	3	5

The measured conducted Average Power(worse case)

Mode	Frequency (MHz)	Averaged Power (dBm)
DR0	902.3	3,24
DR8	914.2	3.31

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm^2)	LIMIT (mW/cm^2)
902.3-914.9	5	1	20	0.000792	0.602
903-914.2	5	1	20	0.000792	0.602

Important

(1) The test report is valid with the official seal of the laboratory and the signatures of Test engineer, Author and Reviewer simultaneously.

(2) The test report is invalid if altered.

(3) Any photocopies or part photocopies in the test report are forbidden without the written permission from the laboratory.

(4) Objections to the test report must be submitted to the laboratory within 15 days.

(5) Generally, commission test is responsible for the tested samples only.

(6)Any photocopies or part photocopies of the test report are forbidden without the written permission from CVC;

Address of the laboratory:

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