



No.:  
FCCSZ2025-0059-H

## TEST REPORT

FCC ID : 2AYHY-TSC224

NAME OF SAMPLE : Radar Module

APPLICANT : Xiamen Milesight IoT Co., Ltd.

CLASSIFICATION OF TEST : N/A

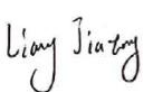
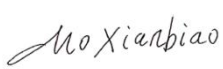
**CVC Testing Technology (Shenzhen) Co., Ltd.**



# CVC Testing Technology (Shenzhen) Co., Ltd.

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|                                                                                                |                                                                                                                                                          |                                                                                                  |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Applicant                                                                                      | Xiamen Milesight IoT Co., Ltd.                                                                                                                           |                                                                                                  |
| Address                                                                                        | Building C09, Software Park Phase III, Xiamen 361024, Fujian, China                                                                                      |                                                                                                  |
| Manufacturer                                                                                   | Xiamen Milesight IoT Co., Ltd.                                                                                                                           |                                                                                                  |
| Address                                                                                        | Building C09, Software Park Phase III, Xiamen 361024, Fujian, China                                                                                      |                                                                                                  |
| Product Name                                                                                   | Radar Module                                                                                                                                             |                                                                                                  |
| Brand Name                                                                                     | Milesight                                                                                                                                                |                                                                                                  |
| Model Name                                                                                     | MS-V224                                                                                                                                                  |                                                                                                  |
| Additional Model                                                                               | N/A                                                                                                                                                      |                                                                                                  |
| Date of Receipt.                                                                               | Jun.16,2025                                                                                                                                              |                                                                                                  |
| Date of testing                                                                                | Jun.16,2025~Aug.01,2025                                                                                                                                  |                                                                                                  |
| Sample No.                                                                                     | 1-1                                                                                                                                                      |                                                                                                  |
| Standard(s)                                                                                    | FCC Part 2 (Section 2.1091)<br>KDB 447498 D04 v01                                                                                                        |                                                                                                  |
| CONCLUSION:                                                                                    | The equipment under test was found to comply with the requirements of the standard(s) applied.<br><br><div>Seal of CVC<br/>Issue Date: Aug.01,2025</div> |                                                                                                  |
| Compiled by: Liang Jiatong                                                                     | Reviewed by: Mo Xianbiao                                                                                                                                 | Approved by: Dong Sanbi                                                                          |
| Signature:  | Signature:                                                            | Signature:  |

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## RELEASE CONTROL RECORD

| ISSUE NO.        | REASON FOR CHANGE | DATE ISSUED  |
|------------------|-------------------|--------------|
| FCCSZ2025-0059-H | Original release  | Aug.01, 2025 |

## 1 GENERAL PRODUCT INFORMATION

|                         |                             |
|-------------------------|-----------------------------|
| <b>PRODUCT</b>          | Radar Module                |
| <b>BRAND</b>            | Milesight                   |
| <b>TEST MODEL</b>       | MS-V224                     |
| <b>ADDITIONAL MODEL</b> | N/A                         |
| <b>POWER SUPPLY</b>     | DC 12V                      |
| <b>STANDARDS</b>        | FCC Part 2 (Section 2.1091) |
|                         | KDB 447498 D04v01           |
|                         | IEEE C95.3                  |

Note:

1. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

## 2 RF EXPOSURE LIMIT GENERAL INFORMATION

### 2.1 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**.

### 2.2 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (FCC)

(Option C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least  $\lambda / 2 \pi$ , where  $\lambda$  is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda / 4$  or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

| RF SOURCE FREQUENCY (MHZ) | THRESHOLD ERP(W) |
|---------------------------|------------------|
| 0.3 -1.34                 | $1,920 R^2$      |
| 1.34 - 30                 | $3,450 R^2 F^2$  |
| 30 -300                   | $3.83 R^2$       |
| 300-1500                  | $0.0128 R^2 F$   |
| 1500-100,000              | $19.2 R^2$       |

## 2.3 CALCULATION RESULT OF MAXIMUM POWER

The measured Field strength of fundamental

| Option                                                                                                                                                      | Mode  | Frequency (GHz) | Target Power (dBm) | Tolerance (dBm) | Lower Tolerance (dBm) | Upper Tolerance (dBm) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------|--------------------|-----------------|-----------------------|-----------------------|
| C                                                                                                                                                           | Radar | 24.125          | 11                 | +1              | 10                    | 12                    |
| Maximum Peak Power (dBm/MHz) = Maximum Peak Power (dBuV/MHz) - 95.2<br>Radar Power (dBm/MHz) = Maximum Peak Power (dBuV/MHz) - 95.2= 106.45- 95.2= 11.25dbm |       |                 |                    |                 |                       |                       |

### MAXIMUM PERMISSIBLE EXPOSURE (FCC)

| Test Mode | R (cm) | EIRP (dBm) | ERP (dBm) | ERP (W) | Threshold ERP(W) | Ratio |
|-----------|--------|------------|-----------|---------|------------------|-------|
| Radar     | 20     | 12         | 9.85      | 0.0097  | 0.77             | 0.013 |

**Note:** ERP=EIRP-2.15dB

### Conclusion:

This confirmed that the device compliance with FCC RF exposure requirements.

----- End of the Report -----

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- (4) The test report is invalid if altered;
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- (6) Generally, commission test results apply to the samples as received. The sample information is provided by the customer and laboratory is not responsible for its authenticity;
- (7) As for the test result “-” or “N” means “not applicable”, “/” means “not test”, “P” means “pass” and “F” means “fail”

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