

# TEST REPORT

Applicant Name : 3S System Technology Inc.  
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Report Number : 2504W74883E-RF  
FCC ID: 2BC3U-RN100811

## Test Standard (s)

47 CFR §2.1091

## Sample Description

Product Type: Wireless Network Video Recorder  
Model No.: RN100811, 1N100811  
Trade Mark: N/A  
Date Received: 2025-09-03  
Report Date: 2025-11-25

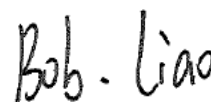
|              |                                            |
|--------------|--------------------------------------------|
| Test Result: | The EUT complied with the standards above. |
|--------------|--------------------------------------------|

## Prepared and Checked By:



Matt Liang  
EMC Engineer

## Approved By:



Bob Liao  
EMC Engineer

Note: This report must not be used by the customer to claim product certification, approval, or endorsement by A2LA, or any agency of the Federal Government. The information marked “#” is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included but no need marked.  
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## Shenzhen Accurate Technology Co., Ltd.

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DOCUMENT REVISION HISTORY

| Revision Number | Report Number  | Description of Revision | Date of Revision |
|-----------------|----------------|-------------------------|------------------|
| Rev.00          | 2504W74883E-RF | Original Report         | 2025-11-25       |

## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

|                               |                                                                                                                                                                             |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product                       | Wireless Network Video Recorder                                                                                                                                             |
| Tested Model                  | RN100811                                                                                                                                                                    |
| Multiple Model                | 1N100811                                                                                                                                                                    |
| Model Difference <sup>#</sup> | The difference between models is model name and the appearance of the LOGO. Please refer to DOS letter for details.<br>The applicant provided model "RN100811" for testing. |
| Voltage Range <sup>#</sup>    | DC 12V from adapter                                                                                                                                                         |

|                                     |                                                                                                                      |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Frequency Range                     | WIFI Halow 1M: 903.5-926.5MHz<br>WIFI Halow 2M: 905-925MHz<br>WIFI Halow 4M: 906-926MHz<br>WIFI Halow 8M: 908-924MHz |
| Maximum Conducted Peak Output Power | 25.32dBm                                                                                                             |
| Modulation Technique                | OFDM                                                                                                                 |
| Antenna Specification <sup>#</sup>  | 2.45dBi (It is provided by the applicant.)                                                                           |
| Sample Serial Number                | 38SK-1 (Assigned by ATC, Shenzhen)                                                                                   |
| Sample/EUT Status                   | Good condition                                                                                                       |

### Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts C and Part 2-Subpart J, Radiofrequency Radiation Exposure of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with FCC §2.1091 rules.

### Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Accredited by American Association for Laboratory Accreditation (A2LA).The Certificate Number is 4297.01.

## RF EXPOSURE

### Applicable Standard

According to subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure

| Limits for General Population/Uncontrolled Exposure |                               |                               |                                     |                          |
|-----------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| Frequency Range (MHz)                               | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (Minutes) |
| 0.3-1.34                                            | 614                           | 1.63                          | *(100)                              | 30                       |
| 1.34-30                                             | 824/f                         | 2.19/f                        | *(180/f <sup>2</sup> )              | 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

### Result

#### Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm<sup>2</sup>)

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)

| Radio      | Frequency (MHz) | Antenna Gain <sup>#</sup> |           | Tune up conducted power <sup>#</sup> |         | Evaluation Distance (cm) | Power Density (mW/cm <sup>2</sup> ) | MPE Limit (mW/cm <sup>2</sup> ) |
|------------|-----------------|---------------------------|-----------|--------------------------------------|---------|--------------------------|-------------------------------------|---------------------------------|
|            |                 | (dBi)                     | (numeric) | (dBm)                                | (mW)    |                          |                                     |                                 |
| WIFI Halow | 902-928         | 2.45                      | 1.758     | 25.5                                 | 354.813 | 20                       | 0.124                               | 0.601                           |

Note: The tune-up power and antenna gain are declared by the applicant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance

## EXHIBIT A-EUT PHOTOGRAPHS

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Please refer to the Attachment No.1 2504W74883E-RF EUT External Photos and Attachment No.2 2504W74883E-RF EUT Internal Photos.

\*\*\*\*\* END OF REPORT \*\*\*\*\*