复达检测集团
FUDA ANALYTICAL TESTING GROUP

报告查询　　访问官网

Test Report

Sample Name	**Telescoping Antenna**
Client	**SEO WON ELECTRONICS (YANTAI) CO., LTD**
Report Number	**FT-20230913095-En-3**

Shanghai Fuda Testing Technology Group CO., Ltd.

Second Floor, Fuhua Building Fudan University, No. 525, Guoquan Road, Yangpu District, Shanghai, China.
Service Hotline：021-61996230 E-mail:fudan.edu@fudanfuxin.com

Sample Name	Telescoping Antenna		
Sample Quantity	1	Sample Batch	/
Sample Status	Intact	Sample Number	FT230913095
Client	SEO WON ELECTRONICS (YANTAI) CO., LTD		
Communication Information of Client	NO.16Yuansheng Road, Laishan District, Yantai		
Test Category	Commission Test		
Sample Arrival Date	2023.09.25		
Test Cycle	2023.09.26-2023.10.26		
Standards and Methods	Please refer to next page(s).		
Test Results	This report only provides the measured values. See the summary page of test results in this report for details.		
Remarks	Model：LA-106；ERP Code：M719A0； PART NAME：TELESCOPING ANTENNA； Supplier：JIAXING JIEFENG ANTENNA CO.,LTD； Address：New Huang Industrial Park Nanhu Jiaxing city, Zhejiang province (Provided by the entrusting party)		

Drafter：伟林益 Signer：徐紫怡

Reviewer：何磊 Issued Date：2023-11-02

Test Result(s):

No.	Test item	Test Result	Frequency	Test Method
1	Directional pattern	As follows	72MHz	Requirements of the client
2	Antenna gain	As follows	72MHz	Requirements of the client

1. Test items and results

1.1. Direction map

1.1.1. Test layout diagram

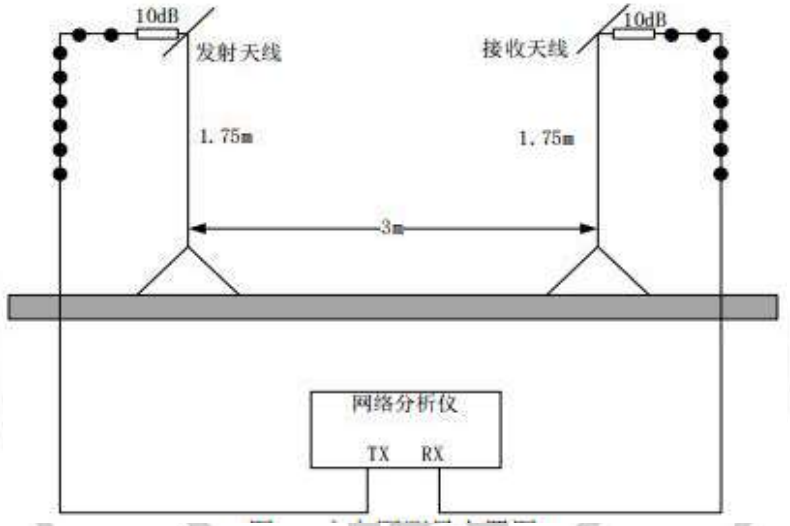

Figure 1: Layout of directional map measurement

1.1.2. Test steps

1) Install the tested antenna in a free space, and the connection arrangement between the tested antenna and the measurement system is shown in Figure 1;

2) Calibrate the measurement system;

3) Connect the measurement system to the tested antenna and measure the directional pattern within the operating frequency range.

4) Provide a 72MHz directional map.

1.1.3. Testing instruments

Instrument Name	Model and calibration information
Network analyzer	101423 Equipment number: 2023F31- 10-4637582001 Next calibration time: 2024-06-08
Anji Open Field	E-28 Equipment number: EH-H26/23 Next calibration time: 2028-04-28

1.1.4. H-plane directional map

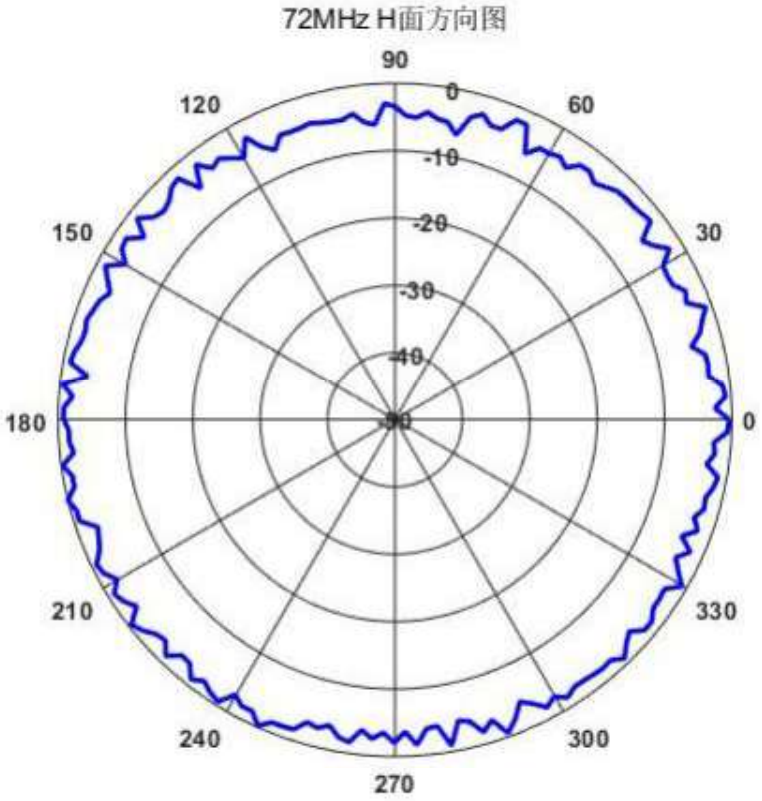

Figure 2: H-plane direction diagram

1.2. Antenna gain

1.2.1. Test layout diagram

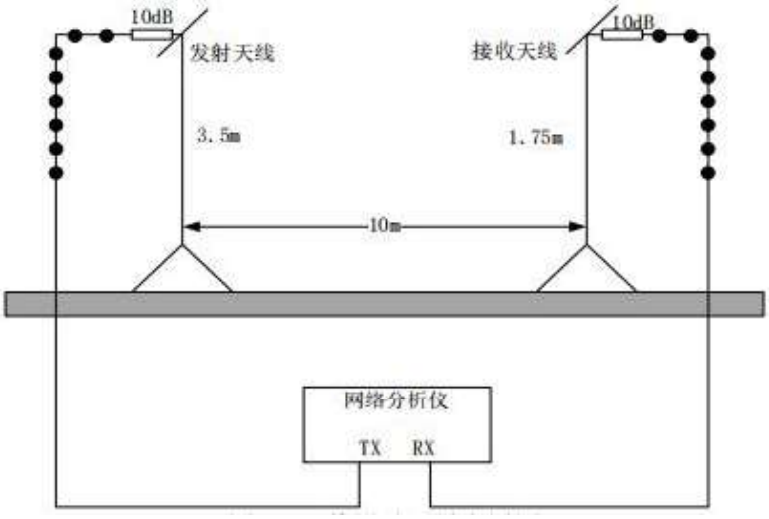

Figure 3: Layout of antenna gain measurement

1.2.2. Test steps

1) Install the tested antenna in a free space, and the connection arrangement between the tested antenna and the measurement system is shown in Figure 3;
2) Calibrate the measurement system;
3) Connect the measurement system to the tested antenna and measure the gain within the operating frequency range.
4) Provide 72MHz antenna gain data.

1.2.3. Antenna gain calibration data

Frequency (MHz)	Antenna gain (dBi)
72	2.80

The End of the Report

Additional Instructions of the Report

1. The Report would be invalid without “Special Seal for Report of Shanghai Fuda Testing Technology Group CO., Ltd.”.
2. Any institution is not permitted to duplicate the report, if needed please submit a formal application.
3. Any objection to the report should be interposed in 10 days from the date of report is issued. Overdue would not be admissible.
4. The report is only responsible for the sample provided by the applicant. The sample will be kept for30 days after the date of report is issued.
5. The company shall perform the duty of confidentiality to the technical documents, report, contract documents and other business secrets of the applicant.
6. When the report is not stamped with the qualification identification mark (CMA), it indicates that the relevant projects have not obtained the qualification identification. The data and results are only used for scientific research, teaching and internal quality control, not for social justice. The Chinese version shall prevail.