



复达检测集团
FUDA ANALYTICAL TESTING GROUP



报告查询



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Test Report

Sample Name

Helical Antenna

Client

SEO WON ELECTRONICS

(YANTAI) CO., LTD

Report Number

FT-20230913095-En-9

Shanghai Fuda Testing Technology Group CO., Ltd.

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Sample Name	Helical 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-123; ERP Code: M716A0; PART NAME: HELICAL ANTENNA; Supplie: HUIZHOU FENGLIYUAN ANTENNA CO.,LTD; Address: Hu Zhen Middle School before 500 meters, Boluo County, Huizhou city, Guangdong province (Provided by the entrusting party)		

Drafter: 张林燕

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

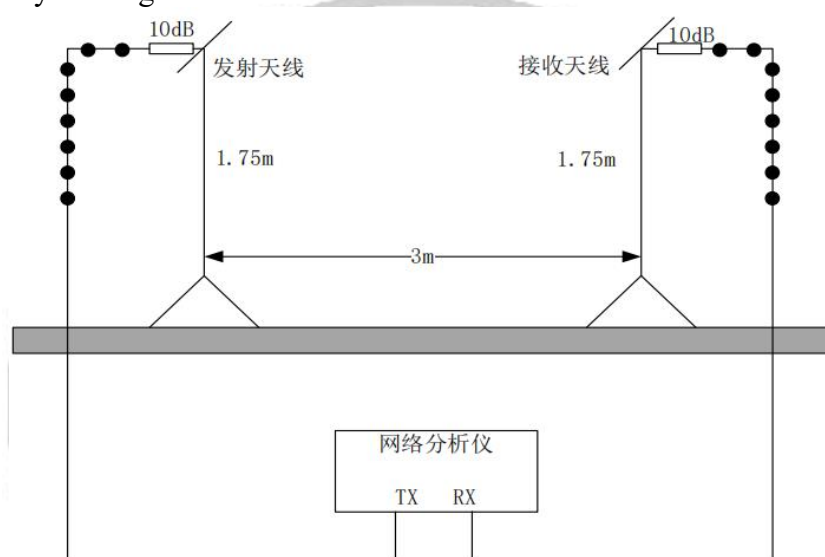


Figure 1: Layout of directional map measurement

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

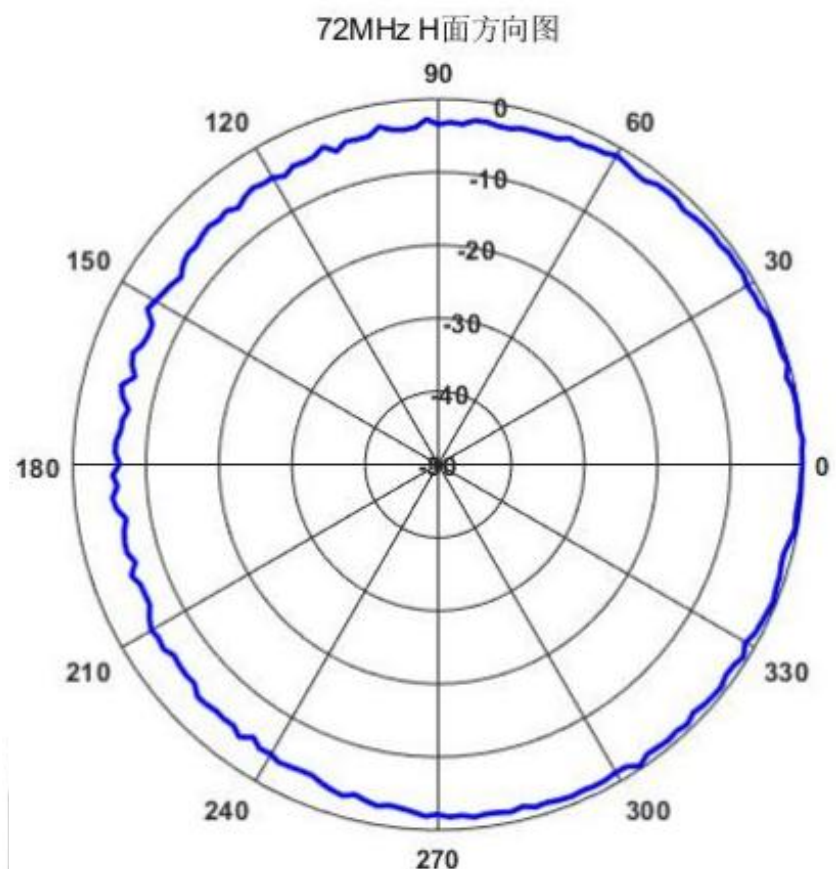


Figure 2: H-plane direction diagram

1.2. Antenna gain

1.2.1. Test layout diagram

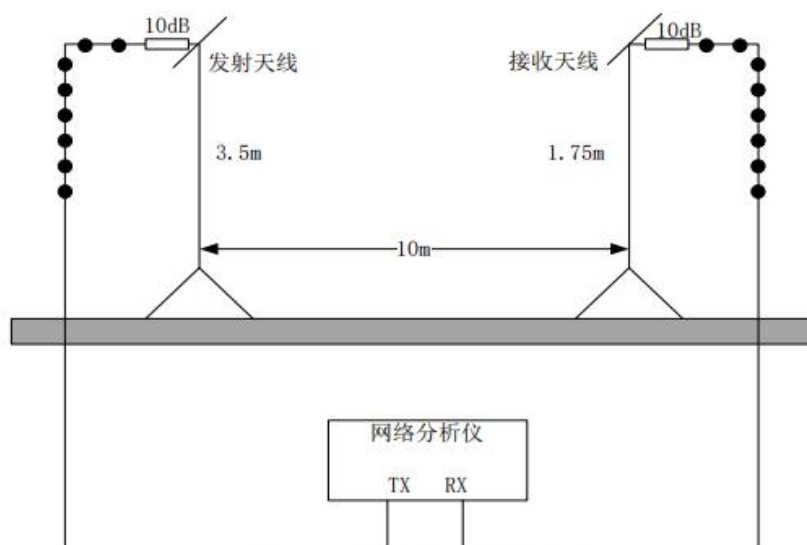


Figure 3: Layout of antenna gain measurement



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	2.66

The End of the Report



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