

TEST REPORT

Applicant : Signal Transmission

PRODUCT NAME : CWDP125-CW_1.37 Antenna

MODEL NAME : CWDP125-CW

TRADE NAME : Coolwave Commnunication co., ltd

BRAND NAME : Coolwave

STANDARD(S) :

RECEIPT DATE :

TEST DATE :

ISSUE DATE :

DIRECTORY

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Change History		
Version	Date	Reason for change
1.0	2019-11-10	First edition

1. Technical Information

Note: Provide by manufacturer.

1.1. Manufacturer and Factory Information

Applicant:	Coolwave Communication co., ltd
Applicant Address:	www.coolwaveasia.com
Manufacturer:	Coolwave Communication co., ltd
Manufacturer Address:	www.coolwaveasia.com

1.2. Equipment Under Test (EUT) Description

Wireless Type	1.37 wire antenna
Frequency	ISM band 2.4G

2. Test Results

2.1. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	ANSI/IEEE Std 149-2008	IEEE Standard Test Procedures for Antennas

2.2. Test Conditions

Test Environment Conditions:

Relative Humidity:	25 ... 75 %
Temperature:	+10 °C to +30 °C

2.3. Test Results lists

2.3.1. Gain

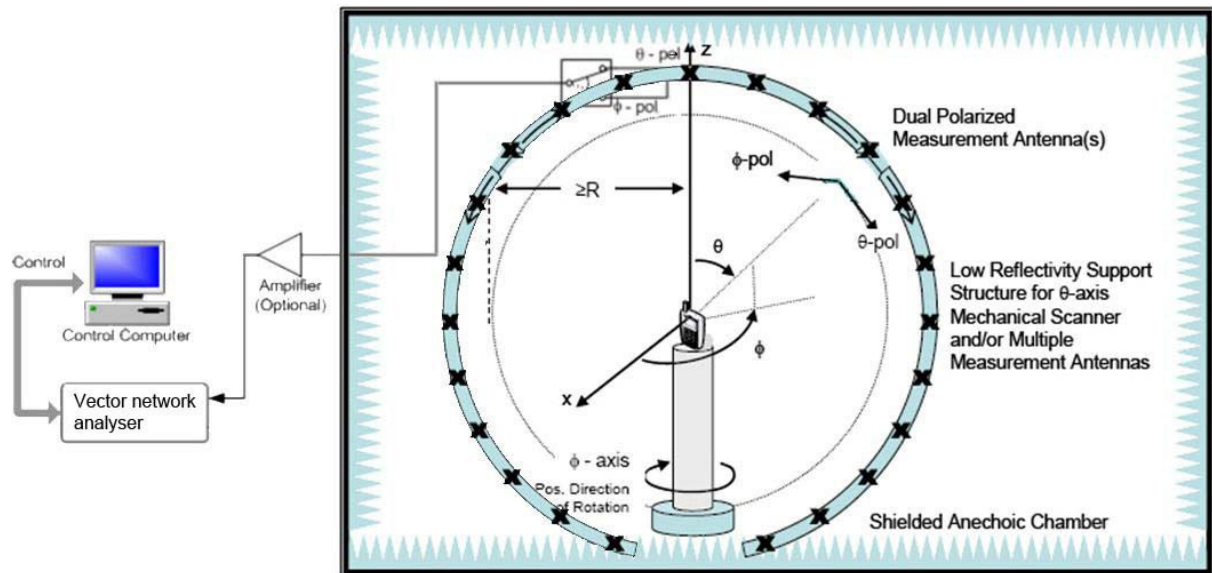
Frequency/Mhz	MaxGain/dBi
2450	1.8
2455	0.44
2460	1.5
2465	0.67
2470	1.27
2475	0.88
2480	1.02
2485	1.31
2490	0.56
2495	1.61
2500	0.44

2.3.2. Efficiency

Frequency/M	Efficiency / %
2450	43.05
2455	37.5
2460	42.46
2465	39.81
2470	41.88
2475	40.55
2480	40.64
2485	42.76
2490	38.37
2495	43.85
2500	36.81

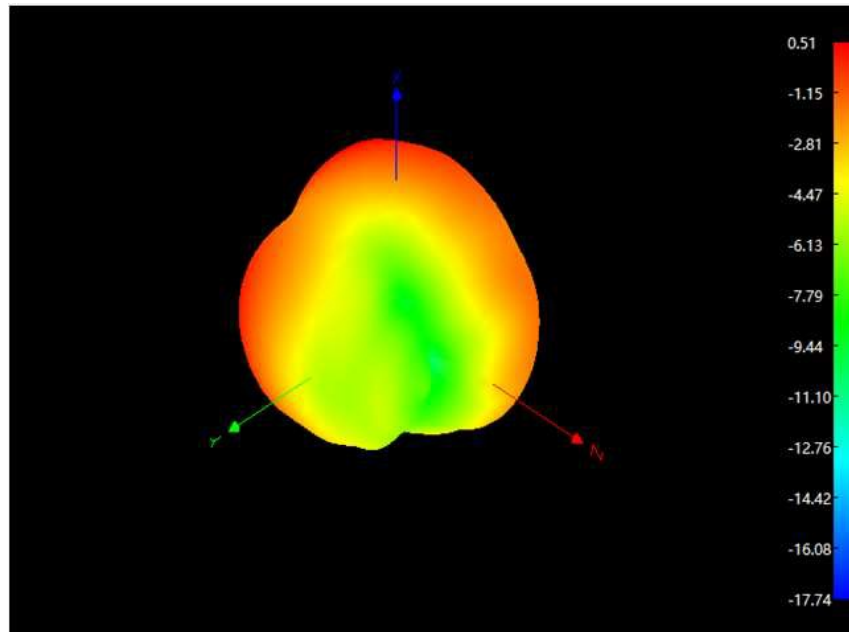
Annex A Photographs

1. Test Setup

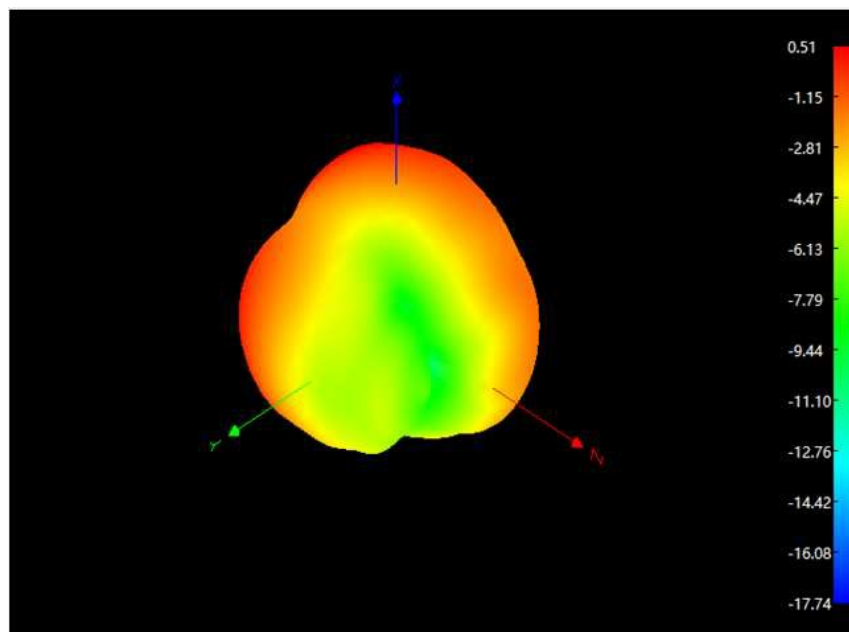


Annex B Figures

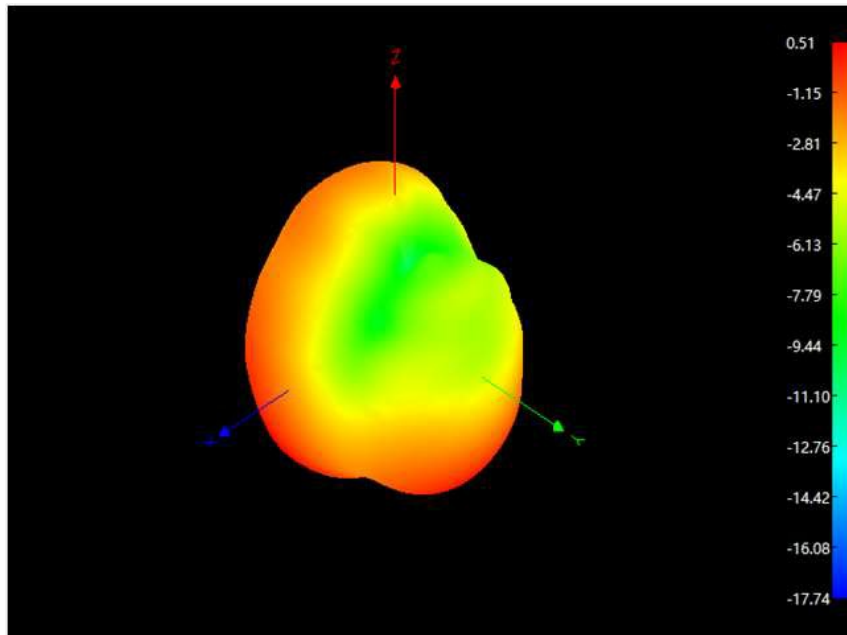
1. 3D Radiation Pattern



2400MHz

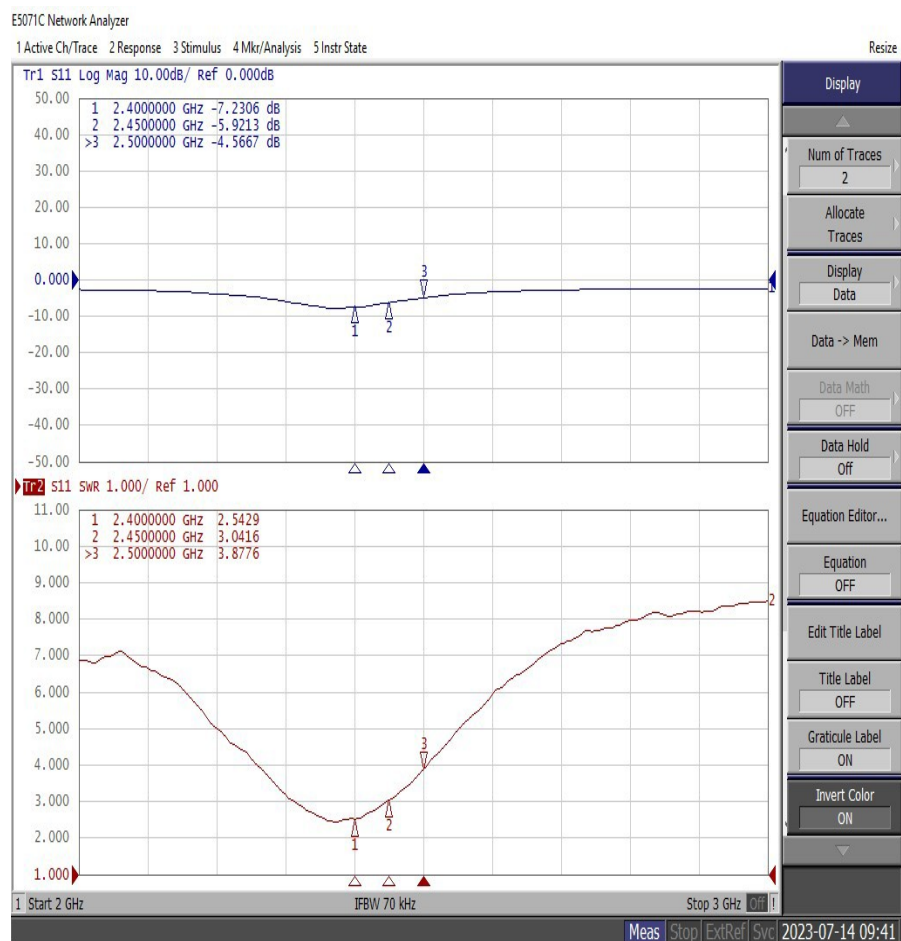


2450MHz



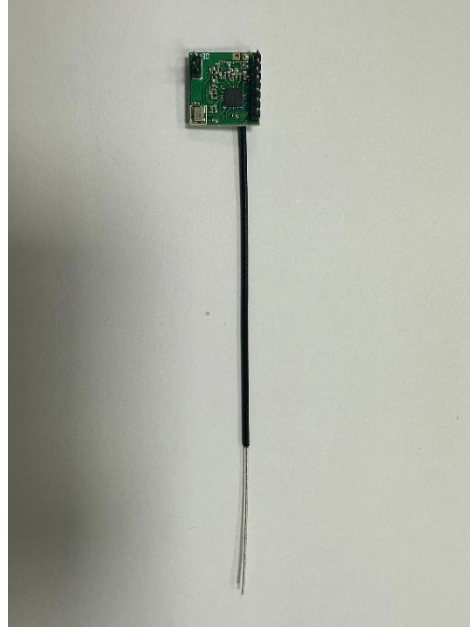
2500MHz

2. Return Loss & VSWR



Annex C Photographs

1. EUT



Annex D General Information

1.1 Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	
Telephone:	
Facsimile:	

1.2 Identification of the Responsible Testing Location

Name:	
Address:	

1.3 Test Equipments Utilized

1.3.1 List of Test Equipment

No.	Type	Specification
1	E5071C Vector Network Analyzer	Manufacturer: Agilent
2	4*4*4 Full Anechoic Chamber	Manufacturer: Satimo
3	SG24 Multi-probe Antenna Measurement System	Manufacturer: Satimo

————— END OF REPORT —————

