

TEST REPORT

Manufacturer: Dongguan Youdu Electronic Technology Co., Ltd.

ManufacturerAddress: Room 501, Building 8, No.330, Futong
Road, Dalang Town,Dongguan City, Guangdong Province

PRODUCT NAME : PCB Antenna

STANDARD(S) : ANSI/IEEE Std 149-2008

DIRECTORY

1. Technical Information.....	3
1.1. Manufacturer and Factory Information	3
1.2. Equipment Under Test (EUT) Description	3
2. Test Results	4
2.1. Applied Reference Documents	4
2.2. Test Conditions	4
2.3. Test Results lists.....	4
Annex A Photographs	6
Annex B Figures	7
2D Radiation Pattern	7
2. 3D Radiation Pattern	9
3. Return Loss	10
4. VSWR.....	11
5. Input Impedance	11
Annex C Photographs.....	12
Annex D General Information	14
1.1 List of Test Equipment	14

1. Technical Information

Note: Provide by manufacturer.

1.1. Manufacturer and Factory Information

Manufacturer:	Dongguan Youdu Electronic Technology Co., Ltd.
Manufacturer Address:	Room 501, Building 8, No.330, Futong Road, Dalang Town, Dongguan City, Guangdong Province

1.2. Equipment Under Test (EUT) Description

Wireless Type	N/A
Frequency	N/A

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

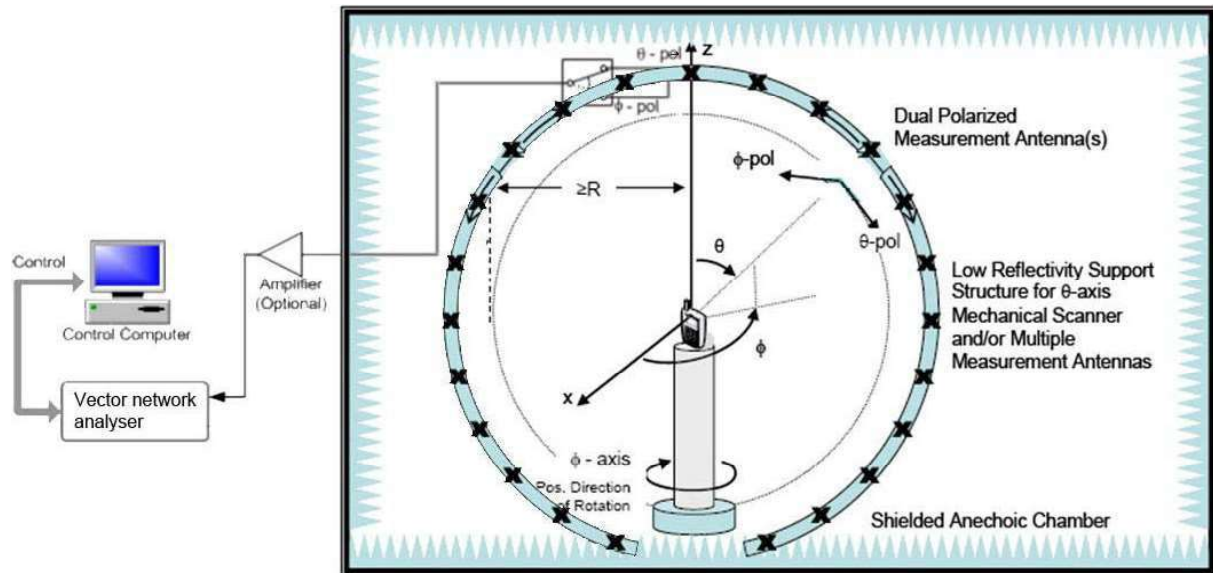
Frequency	Gain(dBi)
2400MHz	2.81
2410MHz	2.74
2420MHz	3.38
2430MHz	2.73
2440MHz	1.01
2450MHz	1.26
2460MHz	1.50
2470MHz	1.49
2480MHz	1.42
2490MHz	0.36
2500MHz	0.33

2.3.2. Return Loss/VSWR/Input Impedance

Frequency	Return Loss (dB)	VSWR	Input Impedance(Ω)
2400MHz	-7.23	2.53	25.37
2440MHz	-6.47	2.80	17.99
2450MHz	-6.22	2.90	17.18
2480MHz	-5.18	3.44	15.55
2500MHz	-4.56	3.89	15.48

Annex A Photographs

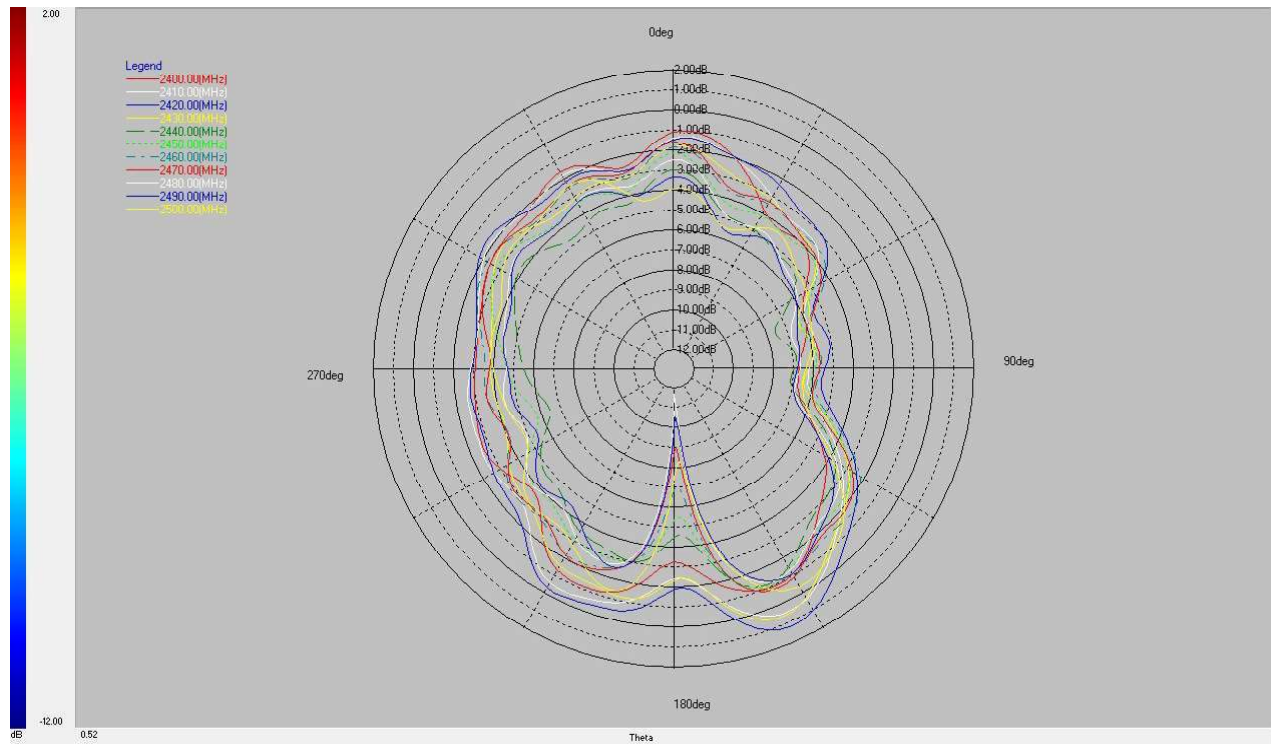
1. Test Setup



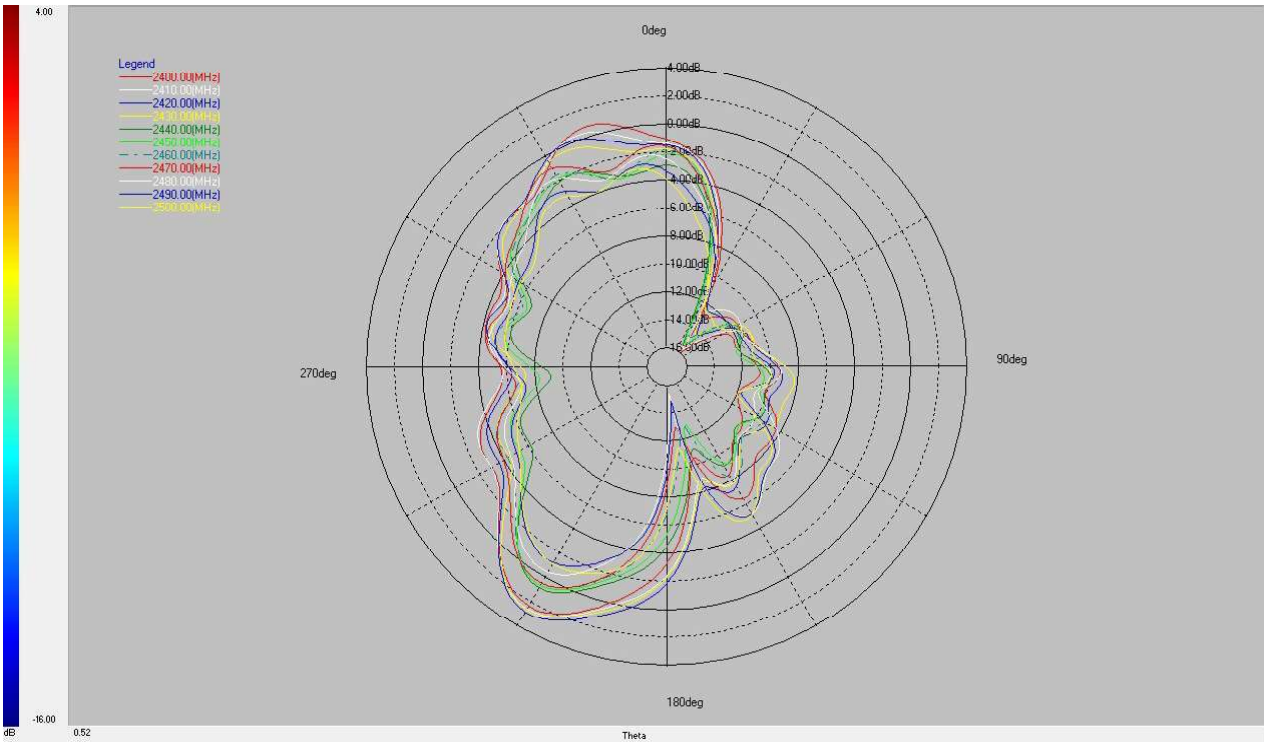
Annex B Figures

1. 2D Radiation Pattern

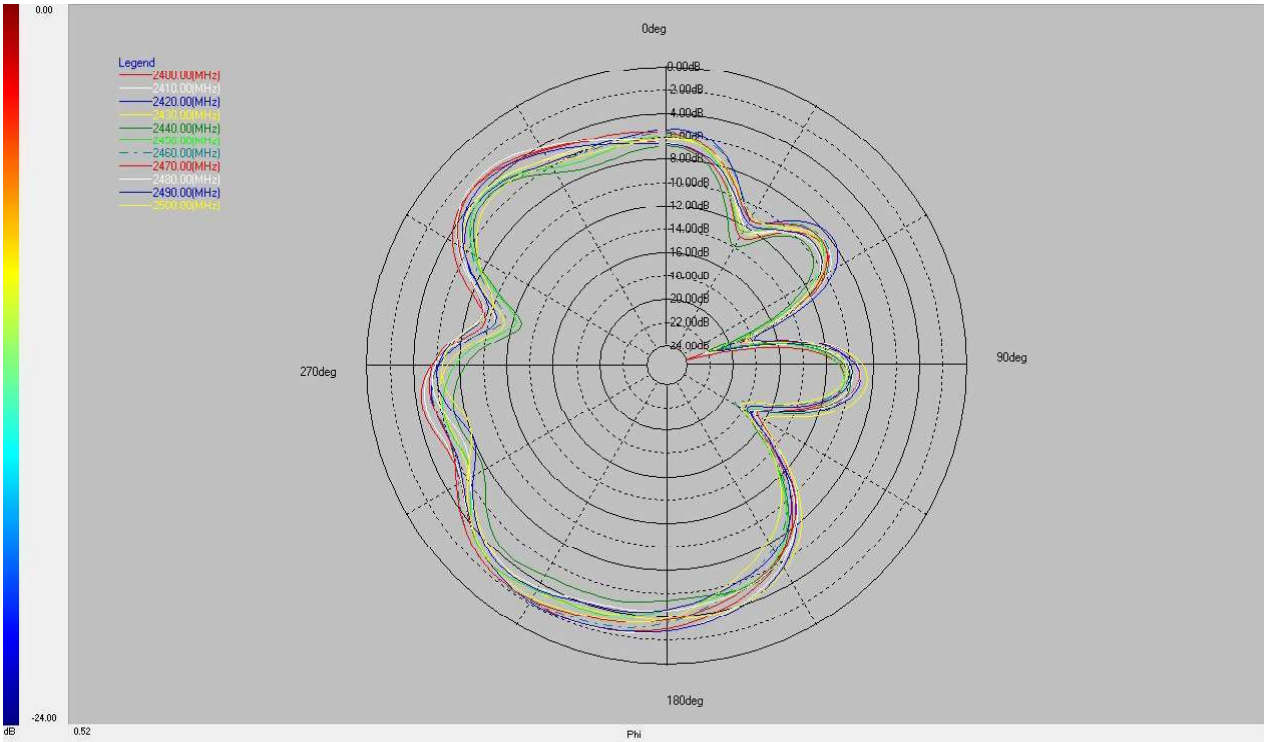
Phi=0°



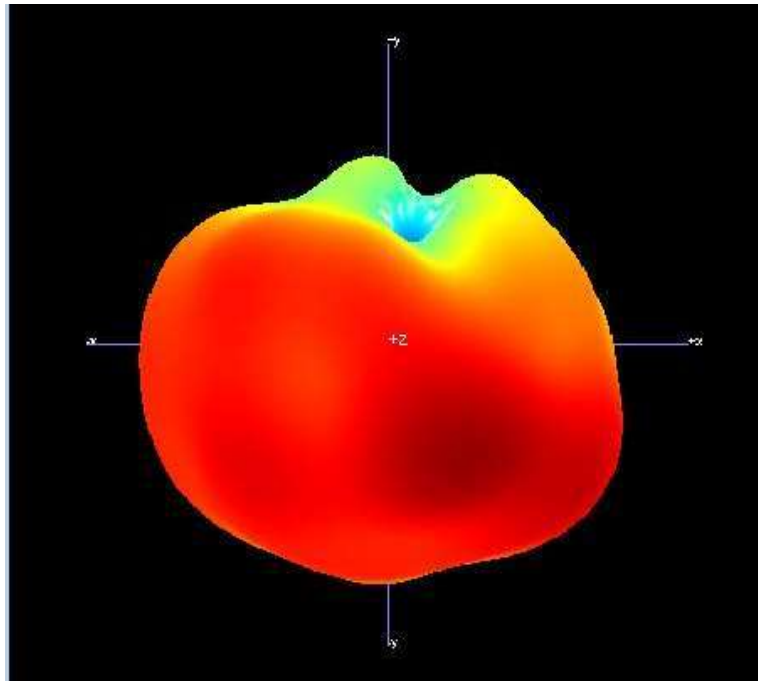
Phi=90°



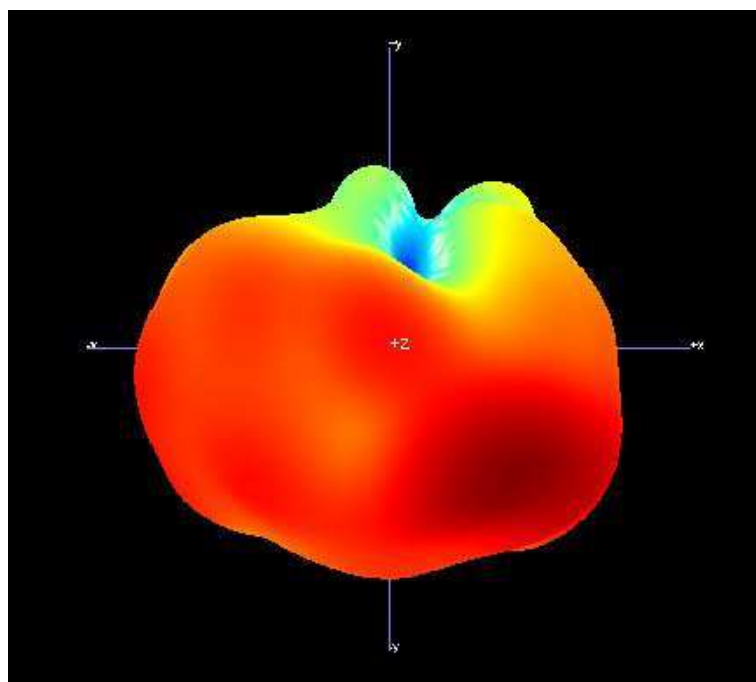
Theta=90°



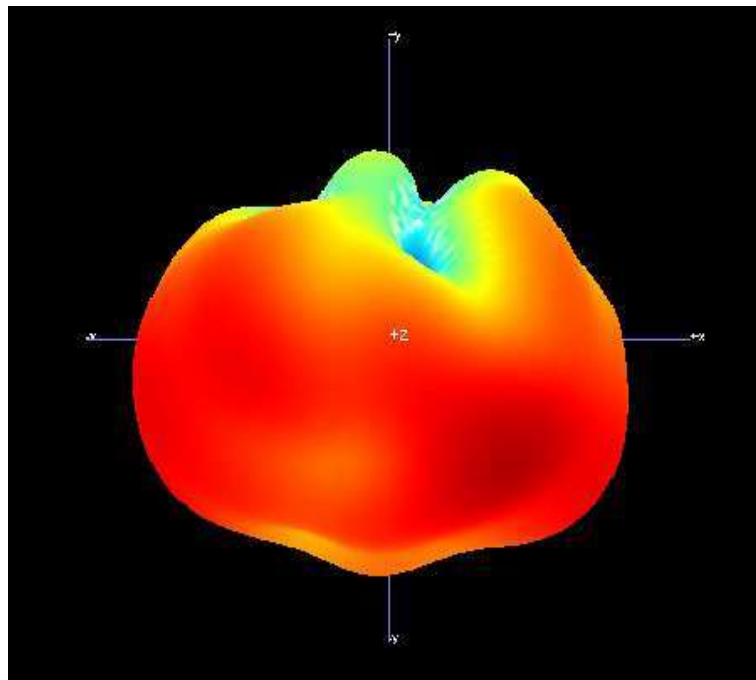
2. 3D Radiation Pattern



2400MHz

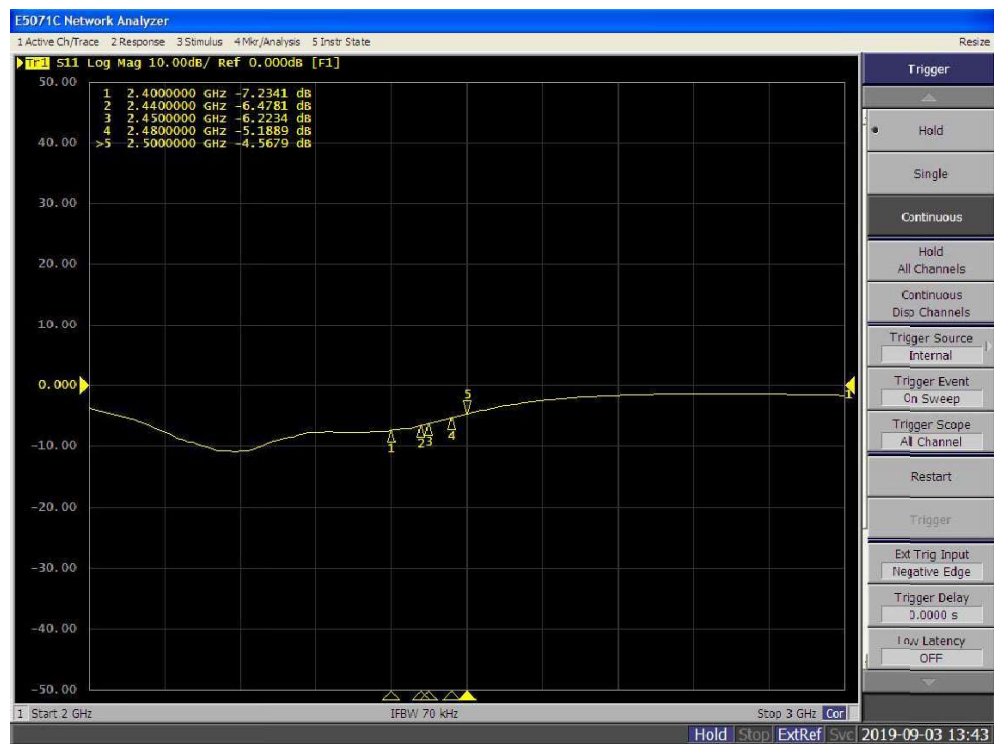


2450MHz

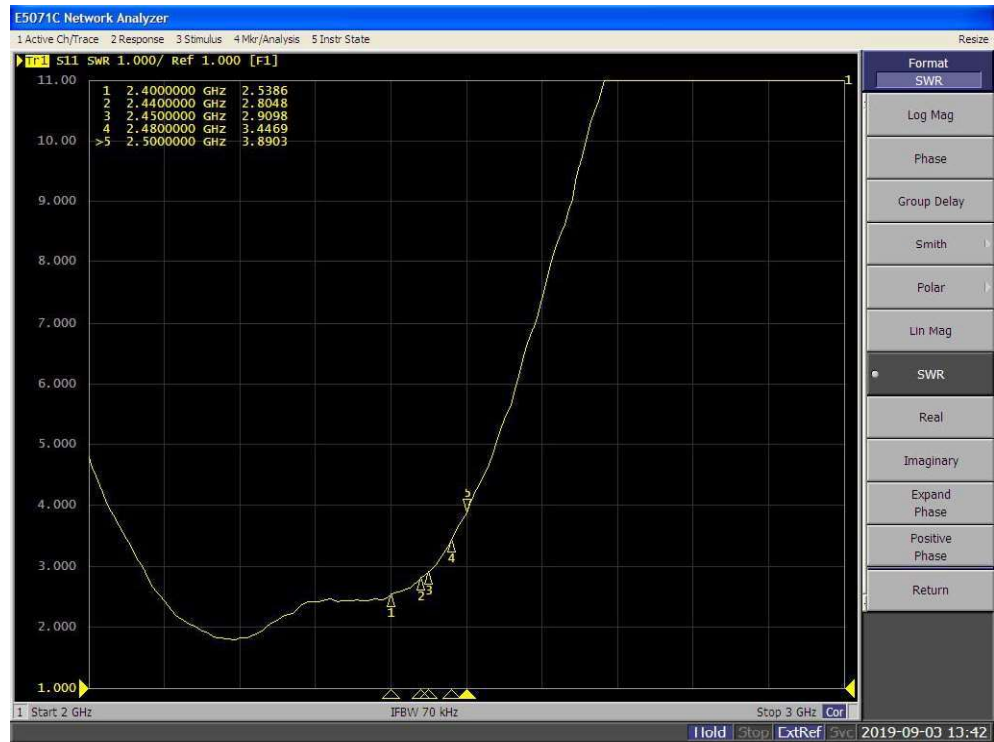


2500MHz

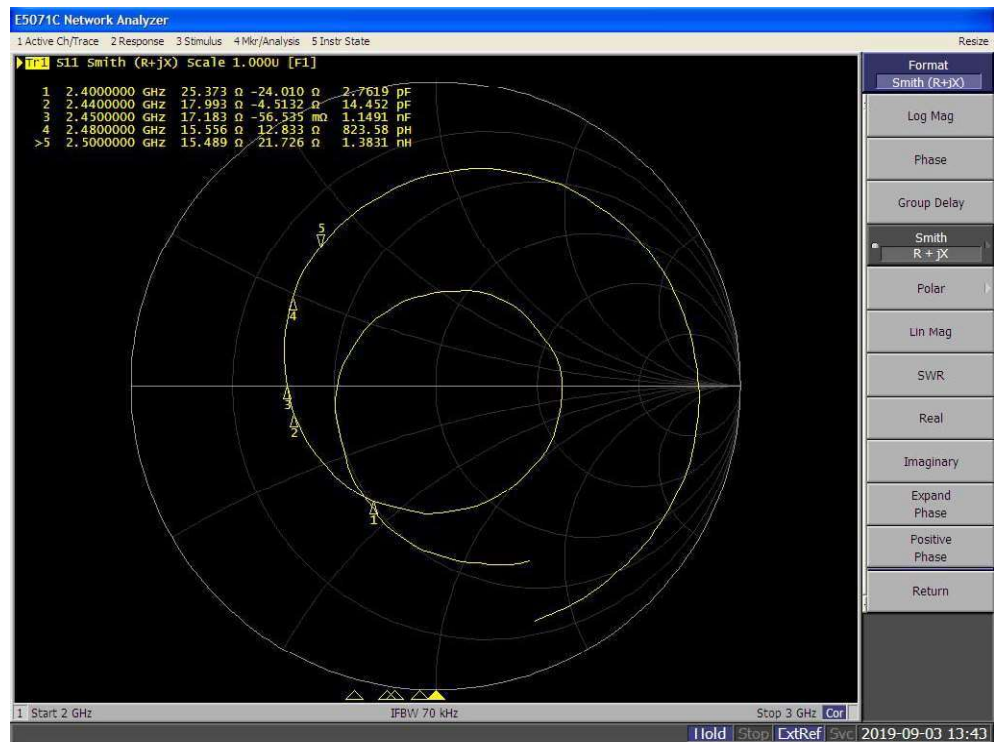
3. Return Loss



4. VSWR



5. Input Impedance



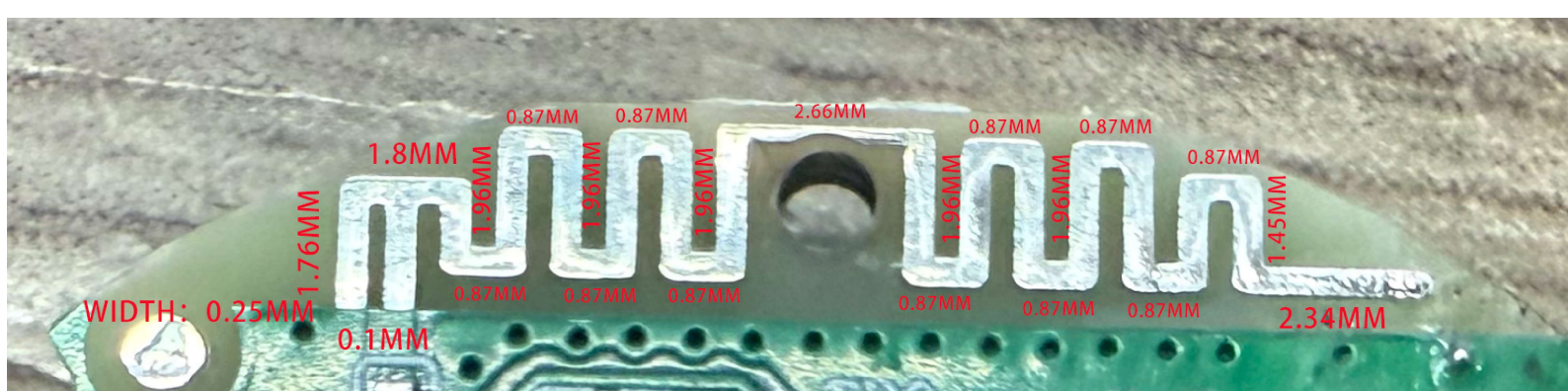
Annex C Photographs

1. EUT



2.

Actual Size



Annex D General Information

1.1 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 —————