

Shenzhen Minew Technologies Co., Ltd.	Document type	Document number	Y-YB-CD-002
		Version	V001
	Antenna test report	Effective date	20XX/XX/XX
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Antenna Test Report

Project No	CS2304D	PCB Version	2820960002_V1.0
Tester	zhuwanli	Date	2024/8/22
Auditing	LiJinbei	Date	2024/8/22
Approval		Date	

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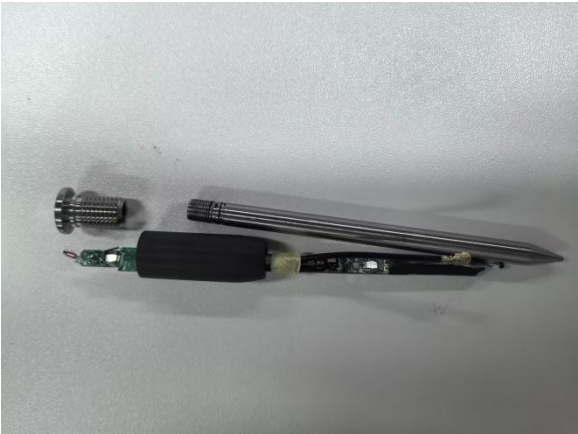
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1. Project Information

- 1.1 Antenna Coding: /
- 1.2 Antenna Type: Monopole Antenna
- 1.3 Model of the DUT: Probe
- 1.4 Test Data : 2024.8.21
- 1.5 Product picture:

Product appearance	
PCB board and antenna	

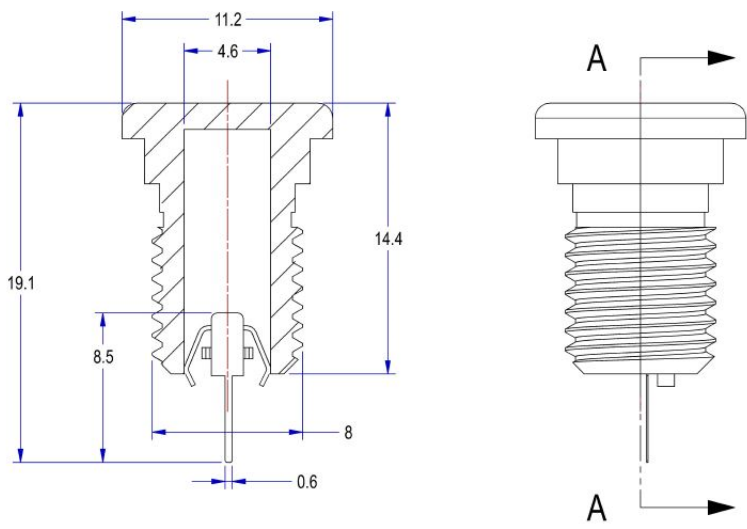
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2. Technical Specification

Electrical Specifications	
Frequency Range	2400-2480 MHz
Peak Gain	-3.82 dBi
Efficiency	7.05%
Return Loss	≤ -2.66 dB
VSWR	≤ 6.57
Bandwidth	80 MHz
Input Impedance	50 Ω
Radiation direction	Omni
Polarization Type	Linear
Lightning Protection	DC grounding
Power Capacity	1000mW (30dBm)
Mechanical Specifications	
Antenna Size	14.65 x 11.2 mm
Core Radiator	stainless steel
Substrate material	stainless steel
Substrate thickness	/
Substrate Size (mm)	115 x 35 mm
Coaxial wire	/
Connect Type	antenna shrapnel
Operating Temperature	-40 to +150° C
Storage Temperature	-40 to +150° C

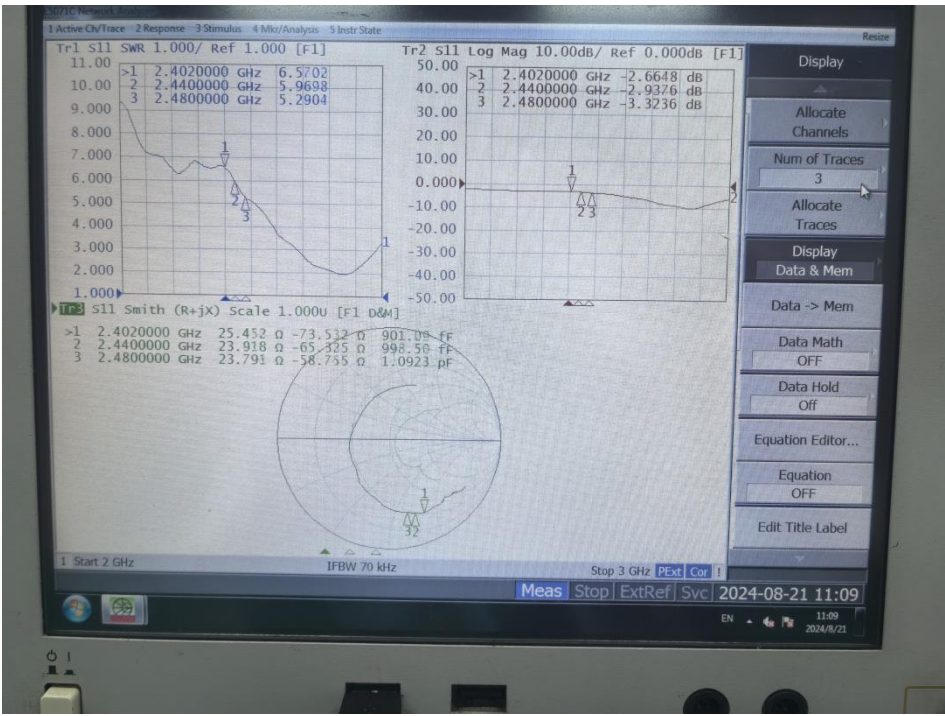
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3. The shape and size of the antenna



4. The result of the test

4.1 VSWR & Return loss & Smith

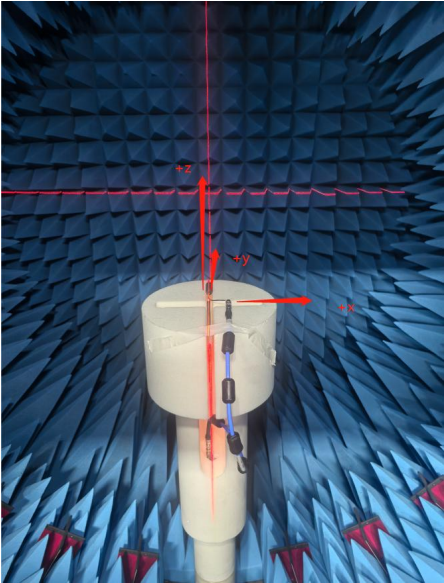
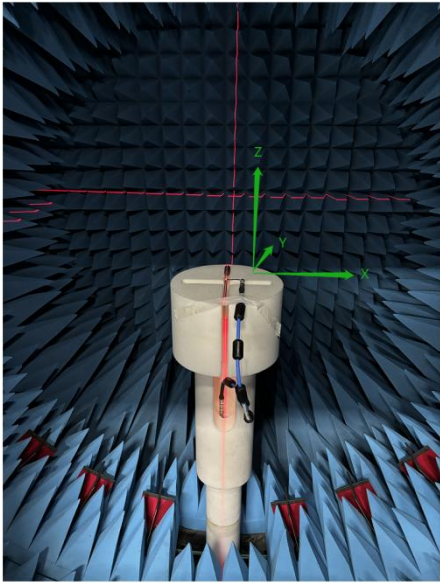


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Frequency (MHz)	Return Loss (dB)	VSWR
2402	-2.66	6.57
2440	-2.93	5.96
2480	-3.32	5.29
Bandwidth	80MHz	

4.2 Antenna Testing Environment

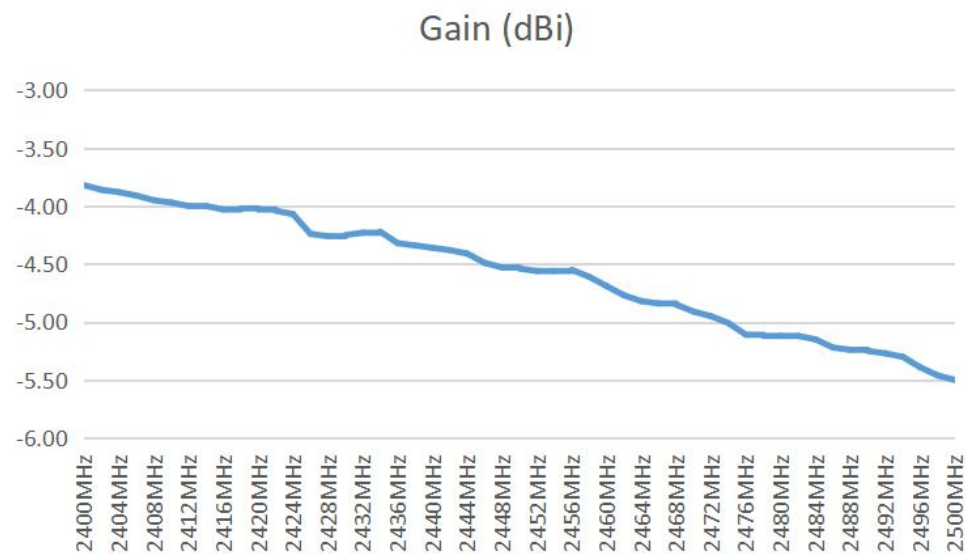
- A. Test Equipment : SATIMO, SG24-L, Agilent-E5071C
- B. Test Engineer : zhuwanli
- C. Test Environment : The microwave unreflected chamber

Inside the microwave anechoic chamber	Product coordinate axis position
	

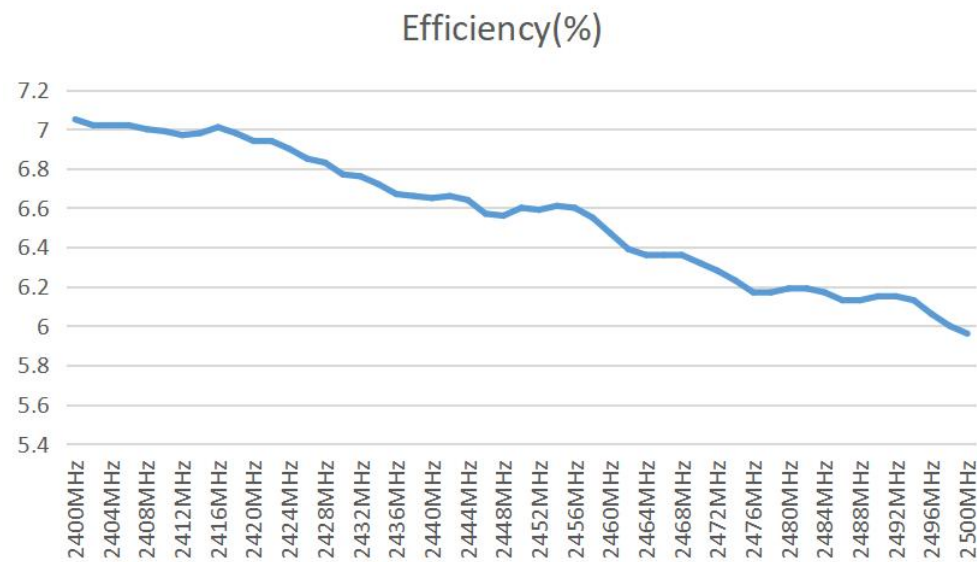
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4.3 Gain and Efficiency

A. Antenna Efficiency

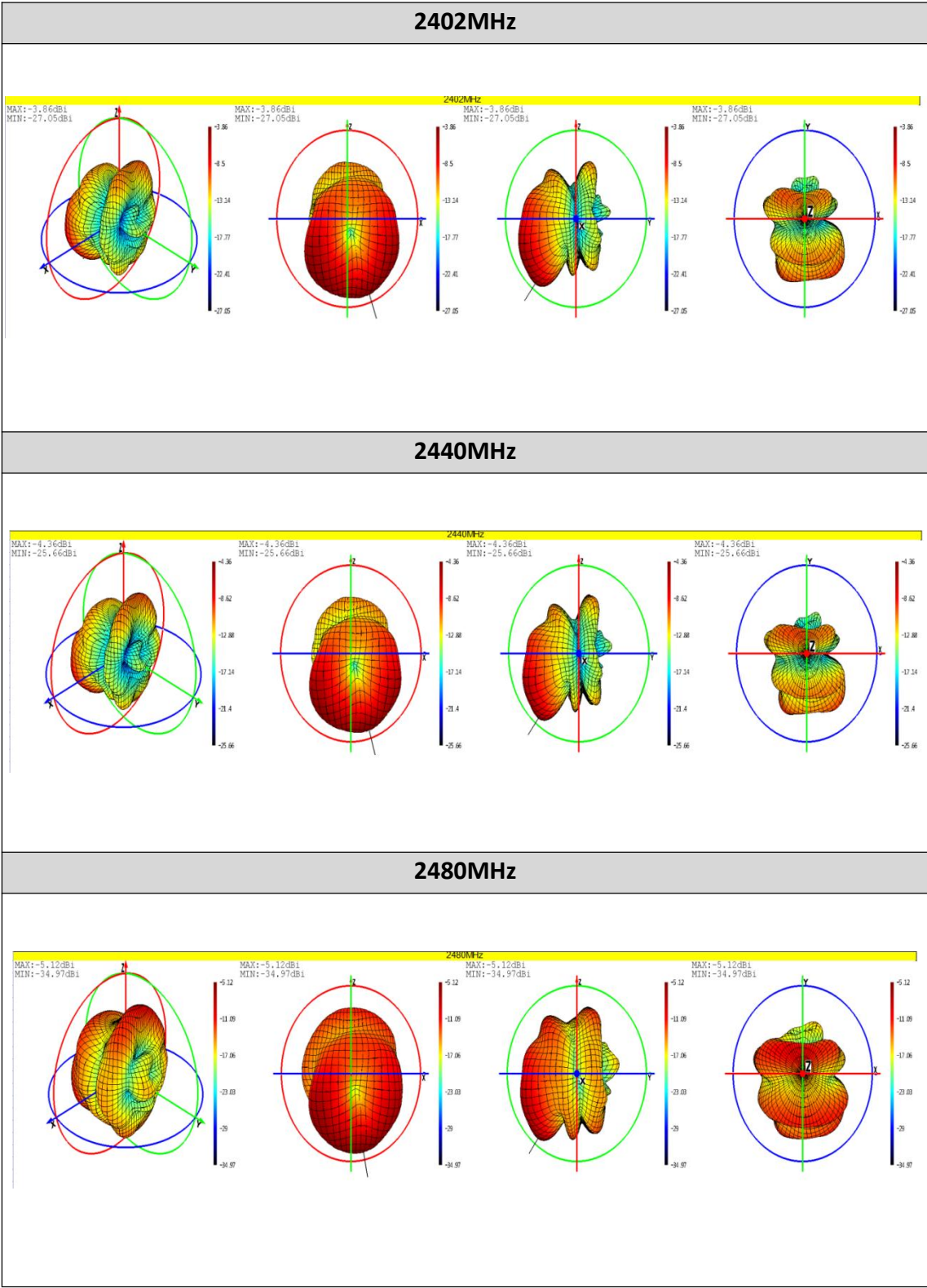


B. Antenna Gain



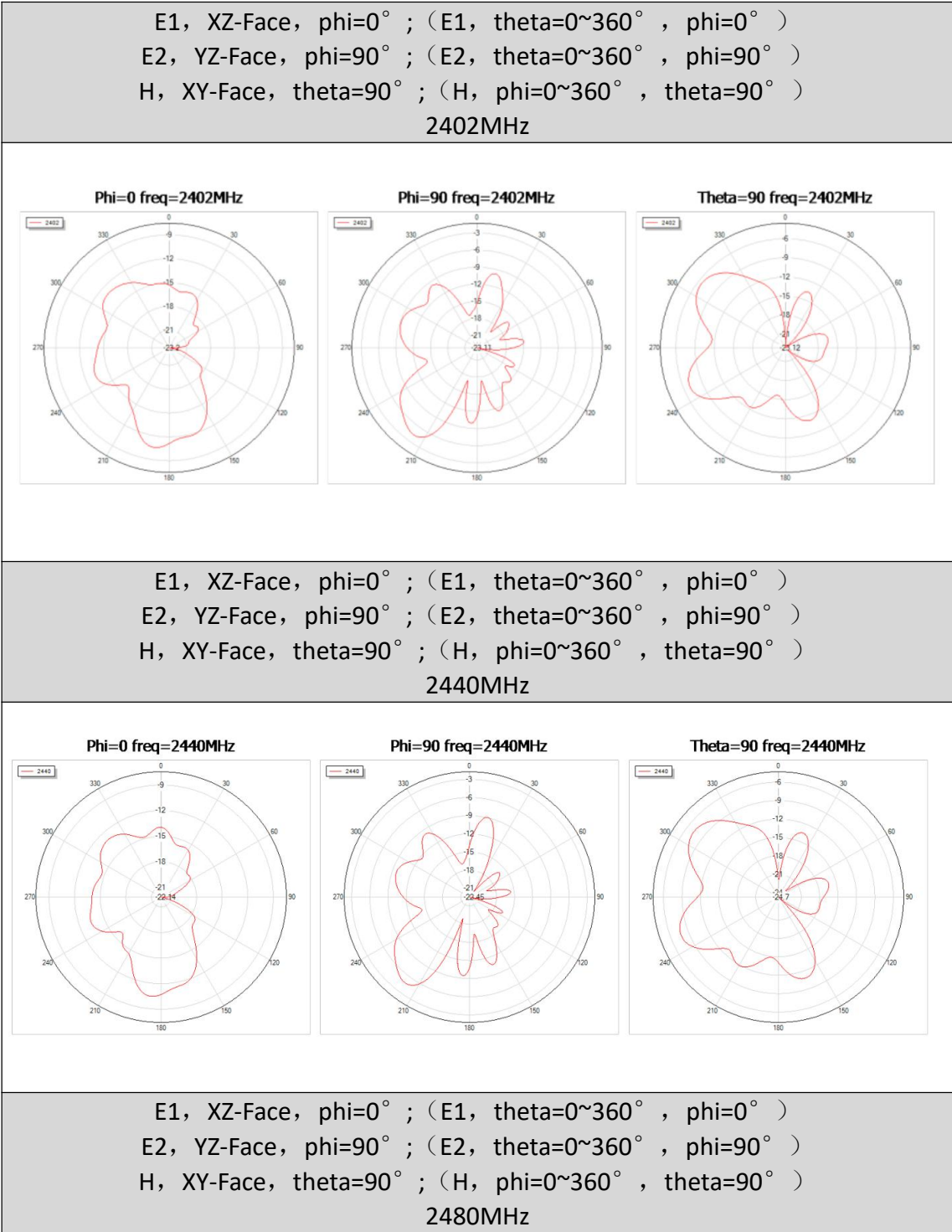
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4.4 3D Radiation Pattern



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4.5 2D Radiation Pattern



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