



Shenzhen DEWEIMA Communication Equipment Co.Ltd

SPECIFICATION SHEET FOR APPROVAL

CUSTOMER NAME	Shenzhen Fushi
CUSTOMER P/N	FS-MG11-BT-BS
PART NAME	2.4G BT antenna
Material code	
APPROVAL REV.	DWM-V1.0

CONTRACTOR			DATE:
2024-01-24			
QA CHECKED	ME 研发专用章 CHECKED	RF CHECKED	MANAGER CHECKED
高春彦	段燕林	陈显叶	余奇学

CUSTOMER		DATE:
Approved By	Checked By	Prepared By

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Product Specification

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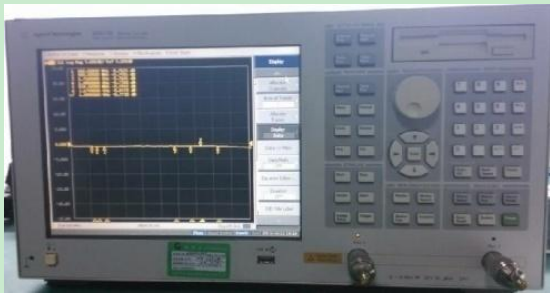
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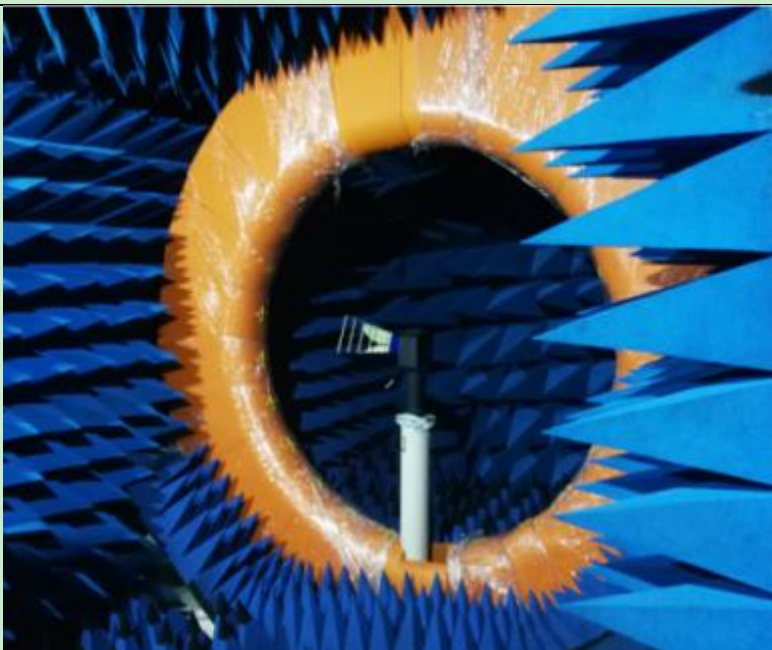
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1. Product Application

Terminal of the antenna products can only be used for 2.4G BT antenna.

2. The test environment, equipment

Item	Description	Test Condition	Requirement
2.1	Passive testing	The VSWR measurement devices are connected in sequence: Agilent 5071B Network Analyzer → measurement Cable → Customer-providing Devices.	VSWR: 2400MHz-2500MHz < 2.0
		Test equipment	
			
Item	Description	Test Condition	Requirement

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2.2	Active test	Follow picture shows the measurement condition of the antenna been put on the measurement device, which is used for all measurement of electric performances.	Antenna gain: 2400MHz-2500MHz: 2±1dBi Antenna efficiency: 2400MHz-2500MHz: >35%	
2.3	Microwave Anechoic (Satimo&ETS)	Test equipment/测试设备		
				

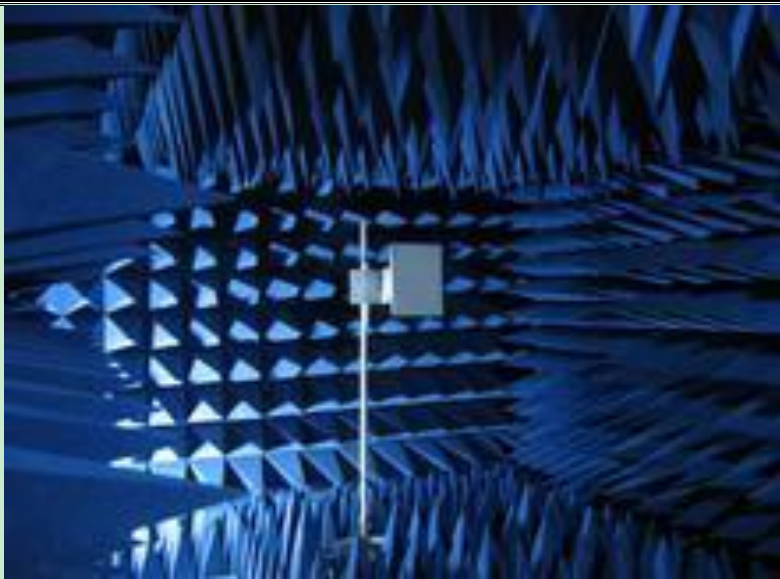
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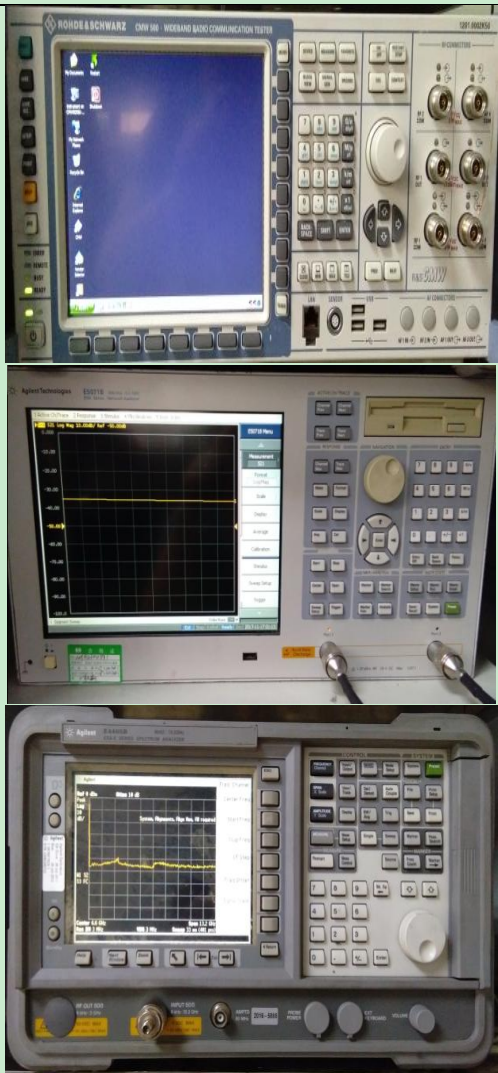
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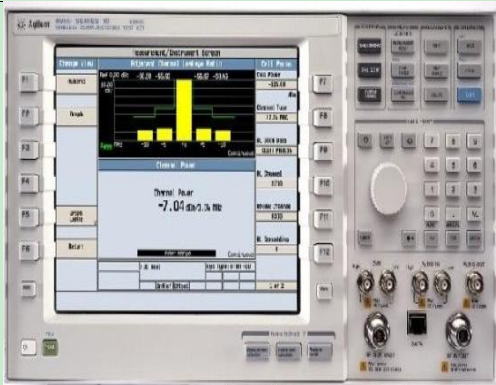
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CMW500
Agilent5071B
AgilentE4405B
Agilent8960



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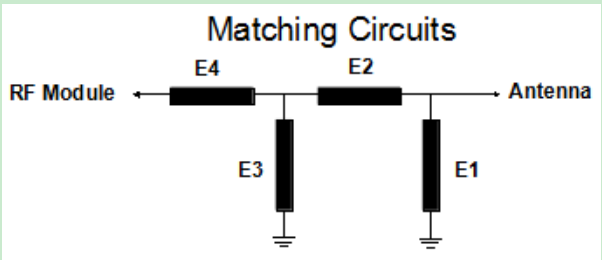


3.Technology Parameters

Frequency Range	2400MHz-2500MHz
Operating Humidity	85%R.H.MAX
Temperature Rating	-40℃～+85℃

3.1 The matching test value

Element	Value
E1(0402)	
E2(0402)	
E3(0402)	
E4(0402)	



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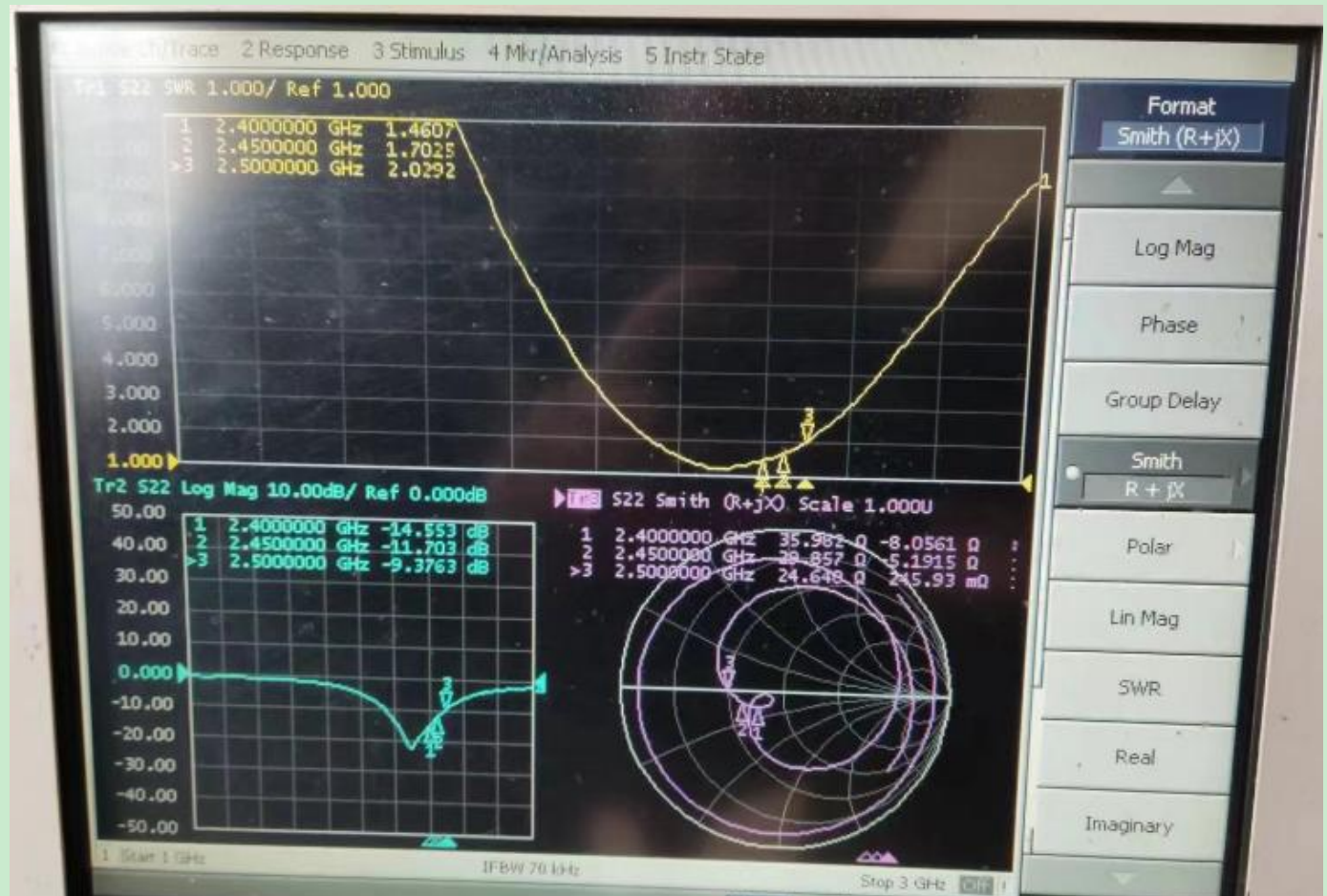
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3.2 VSWR



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3.3. Efficiency And Gain

Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	35.71	1.62
2410	36.12	1.72
2420	34.44	1.77
2430	35.25	1.5
2440	34.71	1.22
2450	35.51	1.6
2460	36.97	1.92
2470	37.1	1.63
2480	36.98	1.84
2490	37.04	2.29
2500	34.83	1.84

3.4 2D & 3D PHOTO

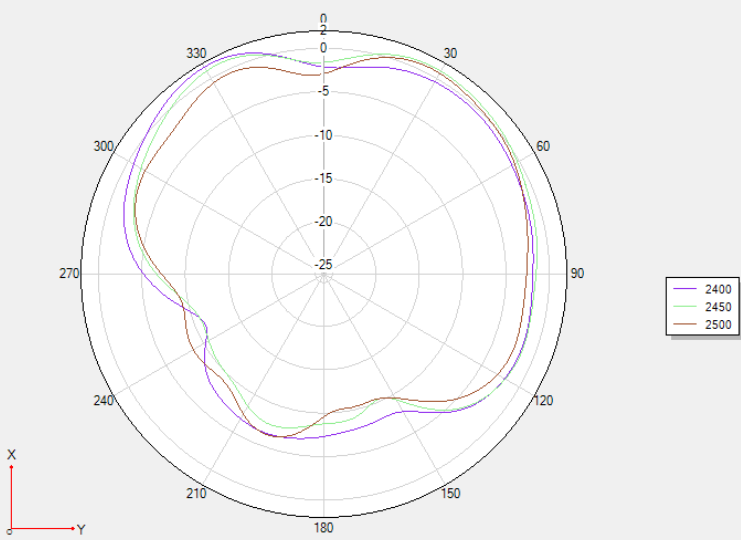
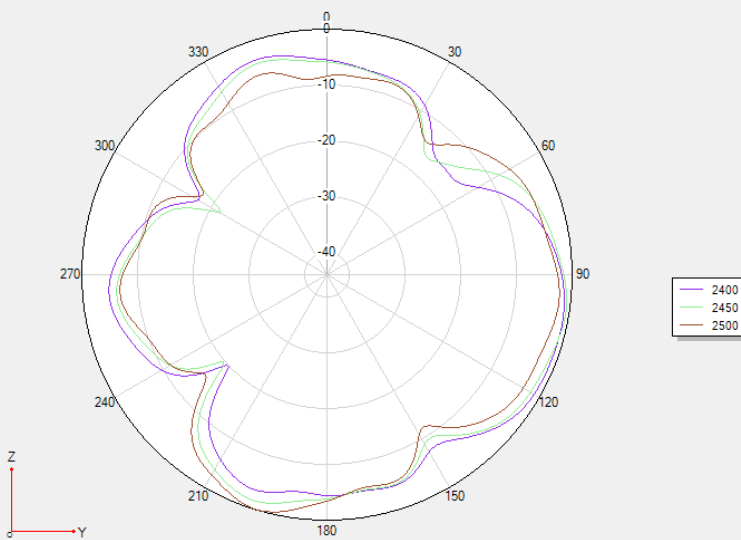
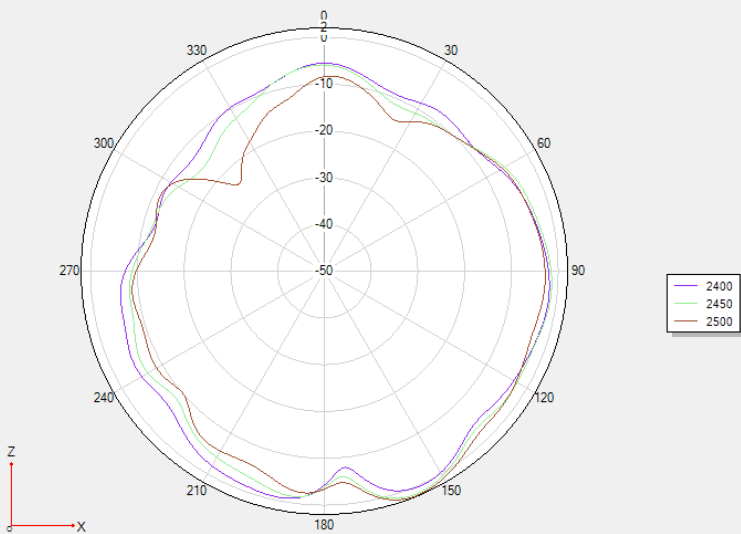
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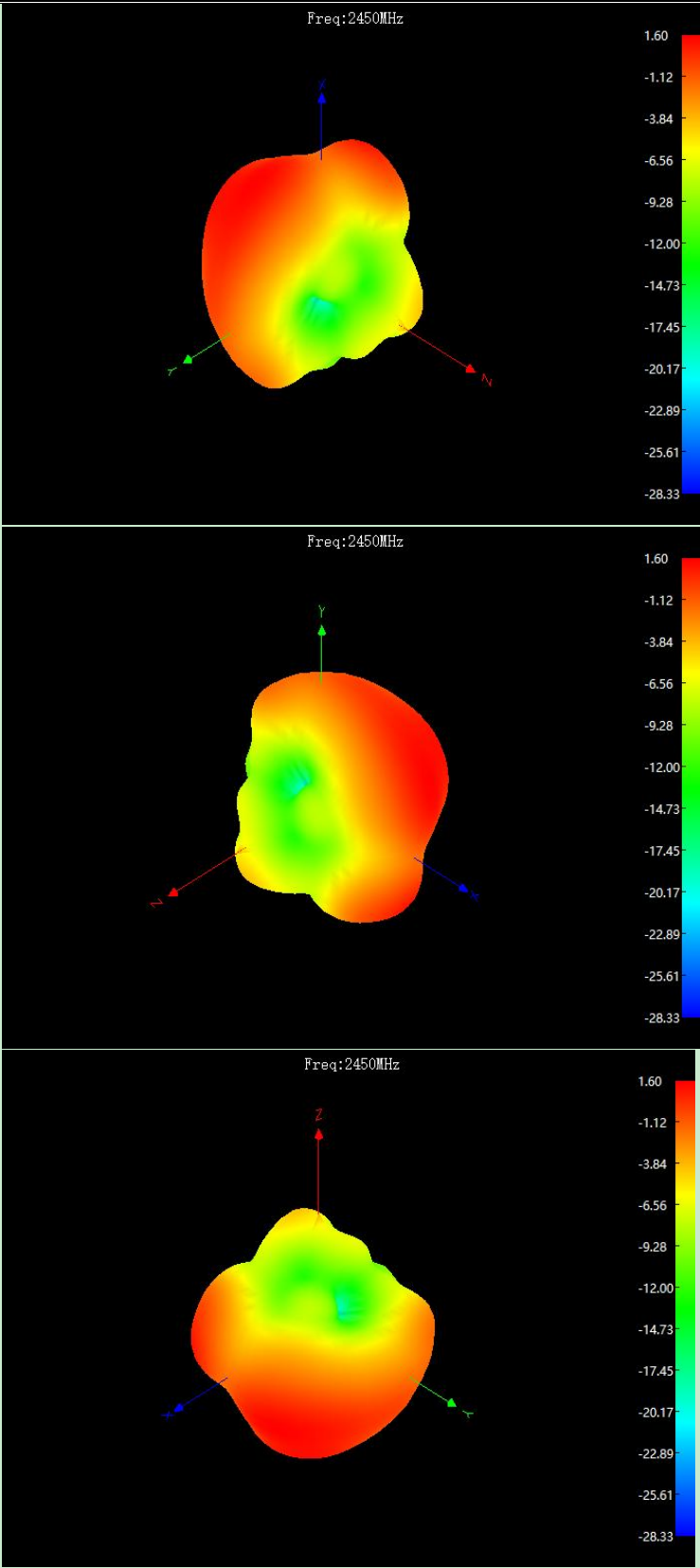
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4. Product photo

5. Environmental Performance

Item	Description	Test Condition	Requirement
5.1	High and low temperature test	Temp.: -40 °C Time: 48 hours Temp.: 85 °C Time: 48 hours	1. No visible damage. 2. The electric performances reach the standard.
Item	Description	Test Condition	Requirement
5.2	Salt Spray	5±0.1% NaCl salt fog PH Value: 6.5-7.2 Temp: 35±1 °C Time: 24 hours	1. No color change. 2. the appearance of the antenna does not flake off.

6. Usage Precaution

No	Items	Matter
6.1	Precautions	a) Please avoid the cleaning of this product a)
No	Items	Matter
6.2	Stockpile condition	Use this product within 6 months after receipt Condition : Temp: 5~30 °C Humidity: ≤70%

7. Packing method

Bag shipment, 100 pcs.

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Dimension drawing:

