



Shenzhen DEWEIMA Communication Equipment Co.,Ltd

SPECIFICATION SHEET FOR APPROVAL

CUSTOMER NAME	Vodofu
CUSTOMER P/N	NT53E
PART NAME	WIFI/BT Antenna
DWM NO.	
APPROVAL REV.	DWM-V1.0

CONTRACTOR			DATE : 2024-01-08
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

CUSTOMER		DATE :
Approved By	Checked By	Prepared By



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1. Product Application

Terminal of the antenna products can only be used for WIFI/BT antenna.

Item	Description	Test Condition	Requirement
2.1	Passive testing	<p>The VSWR measurement devices are connected in sequence: Agilent5071B Network Analyzer → measurement Cable → Customer-providing Devices.</p>	<p>VSWR: 2400-2500MHz ≤ 5.0</p>
		Test equipment	
			
Item	Description	Test Condition	
2.2	Active test	<p>The antenna is tested within the cell mainboard provided by clients. Follow picture shows the measurement condition of the antenna been put on the measurement device, which is used for all measurement of electric performances.</p>	



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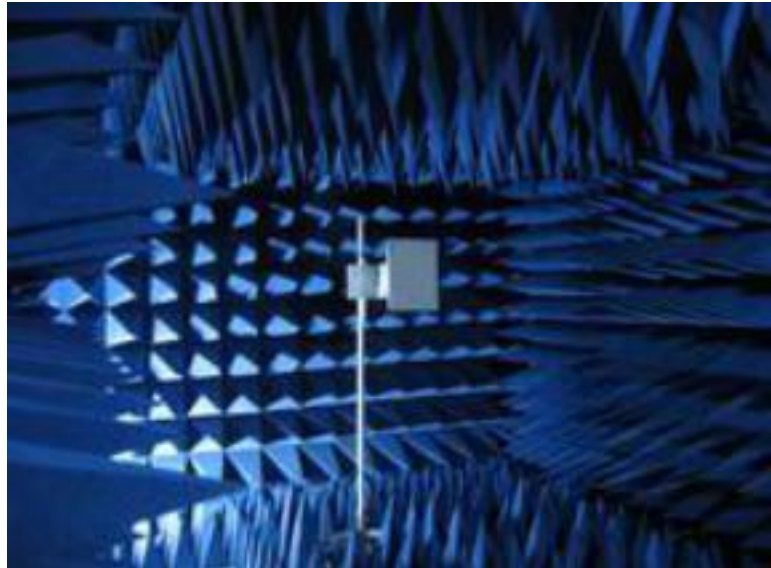
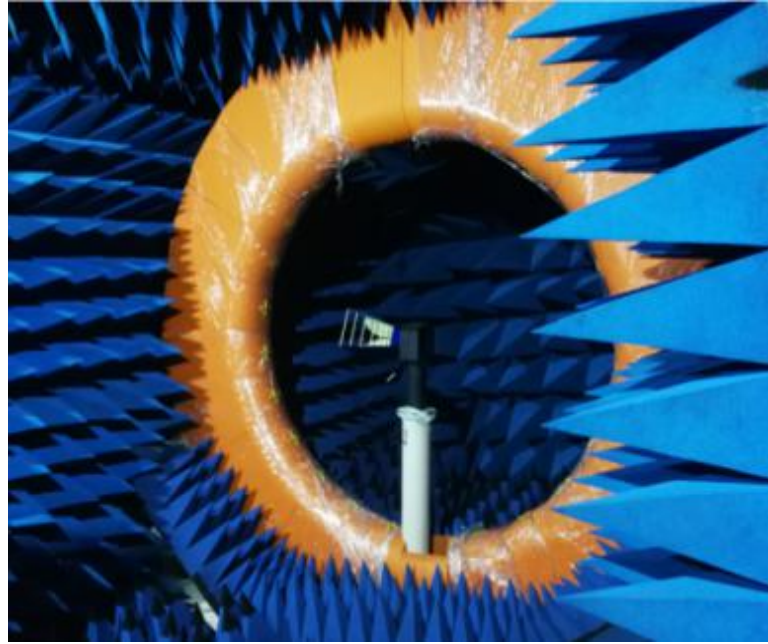
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Test equipment

2.3

Microwave
Anechoic
chamber
(Satimo&ETS
)





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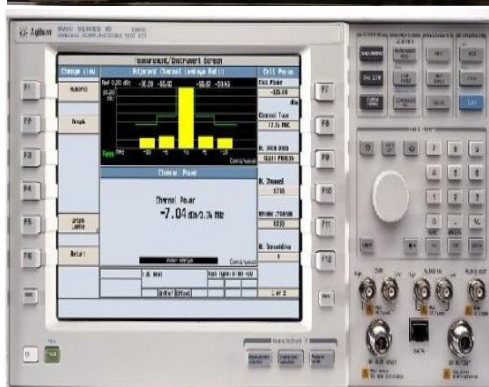
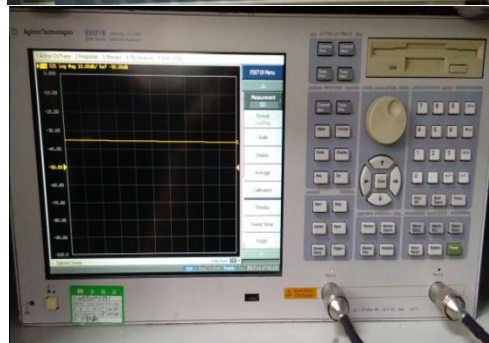
2.4

CMW500

Agilent5071B

AgilentE4405B

Agilent8960





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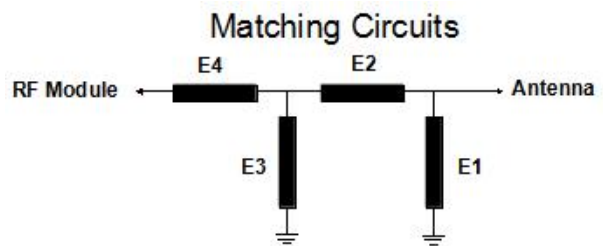
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3. Technology Parameters

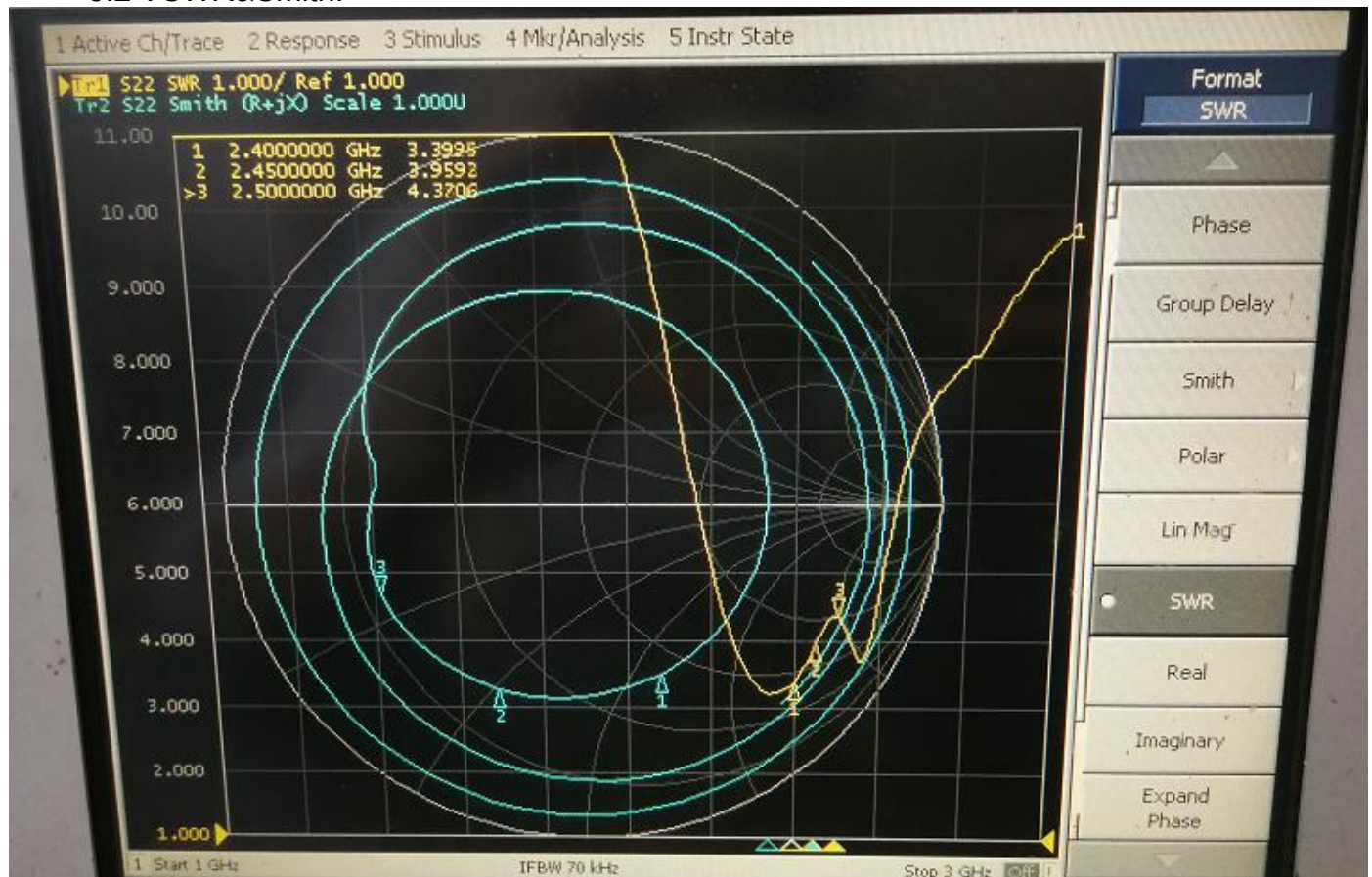
Frequency Range: 2400MHz~2500MHz
 Operating Humidity: 85% R.H.MAX
 Temperature Rating: -40°C ~ +85°C

3.1 The matching test value

Element	Value
E1(0201)	
E2(0201)	
E3(0201)	
E4(0201)	



3.2 VSWR&Smith:





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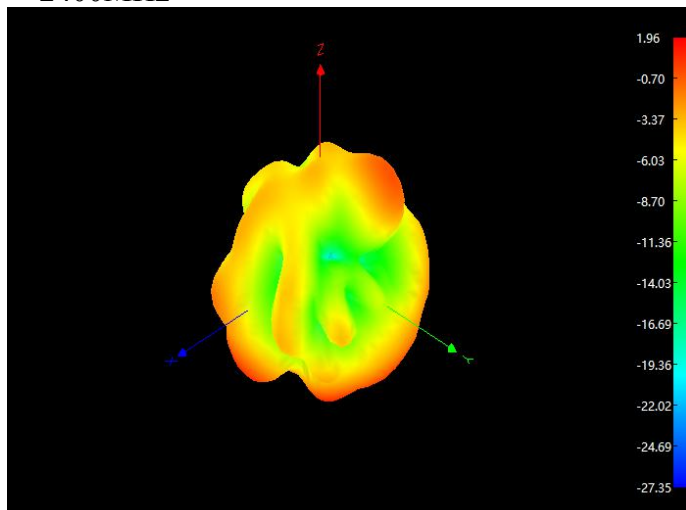
3.3 Efficiency And Gain:

Frequency / MHz	Efficiency / dB	Efficiency / %
2400	-5.89	25.76
2410	-6.11	24.49
2420	-6.07	24.72
2430	-6.33	23.28
2440	-6.68	21.48
2450	-6.58	21.98
2460	-6.51	22.34
2470	-6.66	21.58
2480	-6.52	22.28
2490	-6.2	23.99
2500	-6.22	23.88

Frequency / MHz	MaxGain/dBi	AvgGain/dBi
2400	1.96	-5.89
2410	1.2	-6.11
2420	1.36	-6.07
2430	1.04	-6.33
2440	0.37	-6.68
2450	0.54	-6.58
2460	0.87	-6.51
2470	0.64	-6.66
2480	1.09	-6.52
2490	1.82	-6.2
2500	1.82	-6.22

3.4. 3D Pattern

2400MHz





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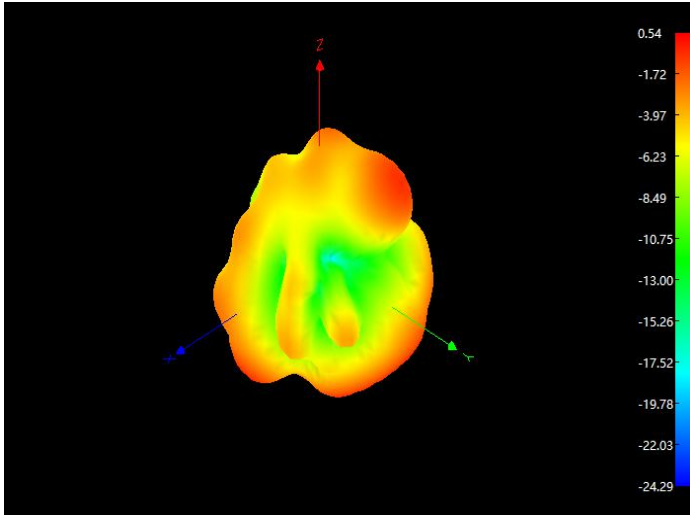
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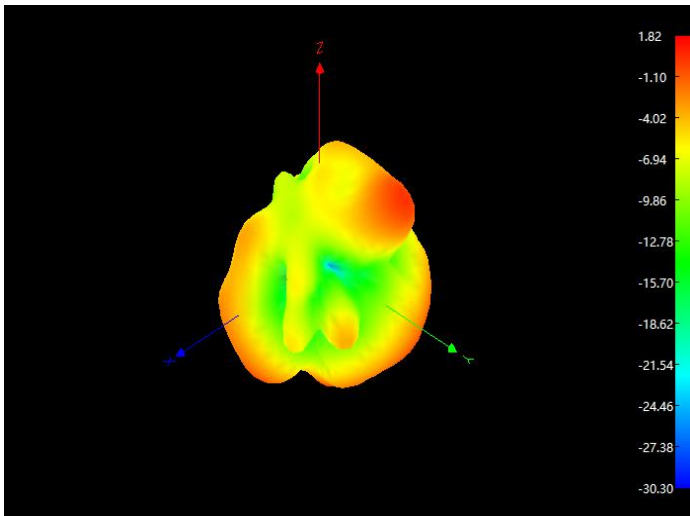
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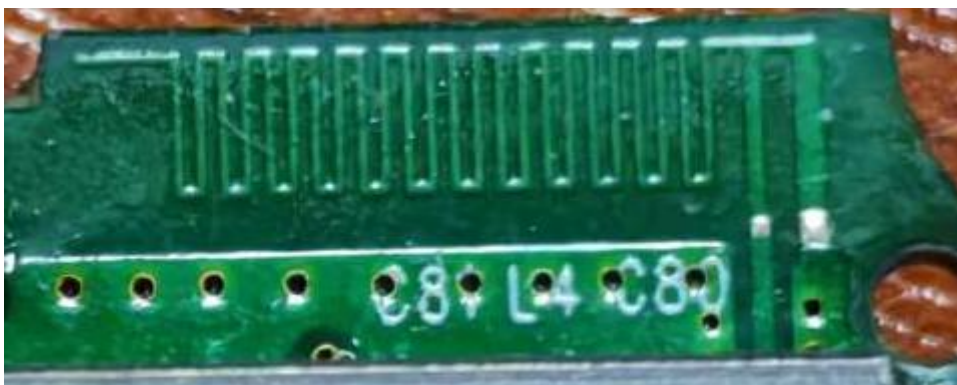
2450MHz:



2500MHz:



4. Antenna Picture :





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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% Nad 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.



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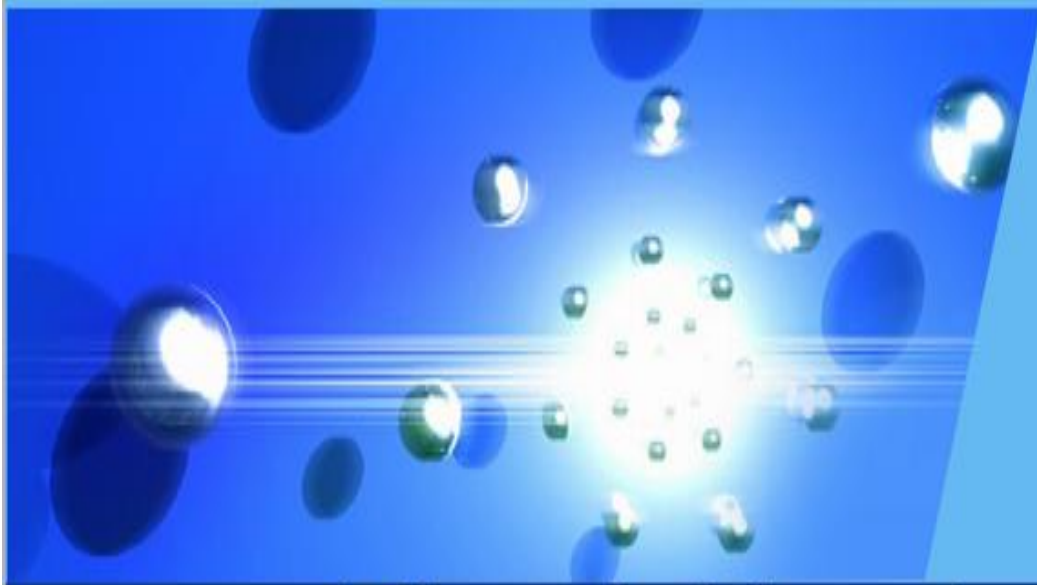
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6.Usage Precaution

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

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Thank You !

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