

CUSTOMER NAME	Shenzhen cape deep communication technology co.,LTD
CUSTOMER P/N	B075
PART NAME	Bluetooth Antenna
DWM NO.	
APPROVAL REV.	R:A

CONTRACTOR			DATE : 2023-05-15
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 Bluetooth 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: 2400-2500MHz ≤ 2
		Test equipment	
			
Item	Description	Test Condition	
2.2	Active test	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.	
2.3	Microwave Anechoic chamber (Satimo&ETS)	Test equipment	

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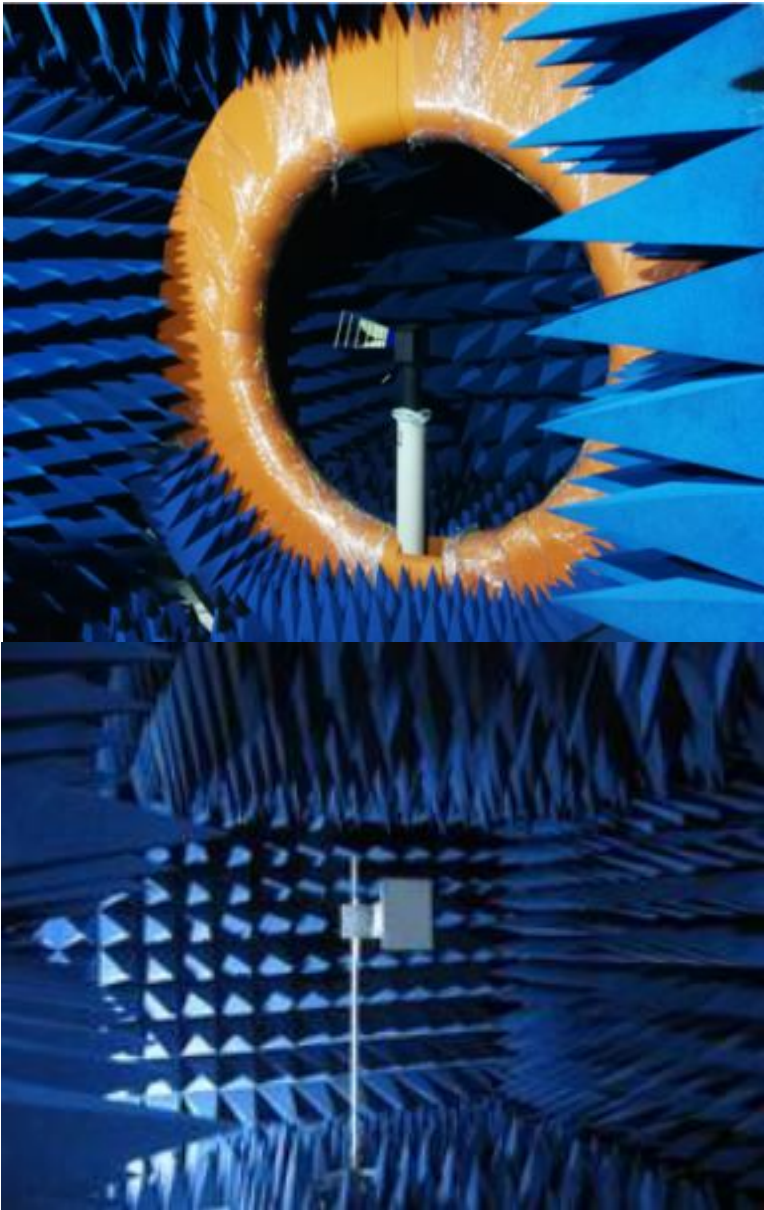
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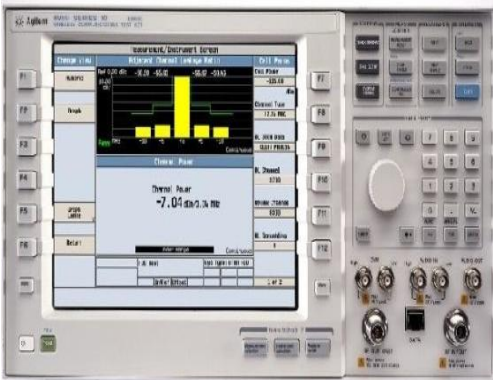
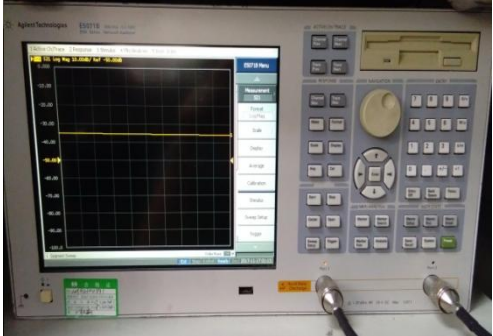
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CMW500

Agilent5071B
AgilentE4405B

Agilent8960



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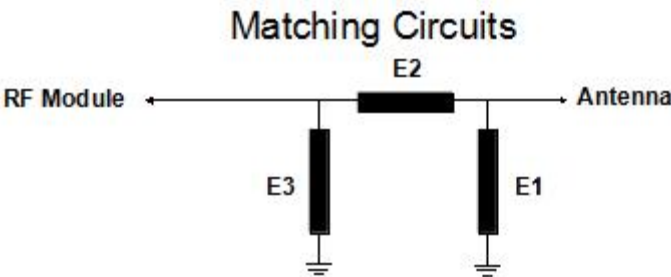
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3. Technology Parameters

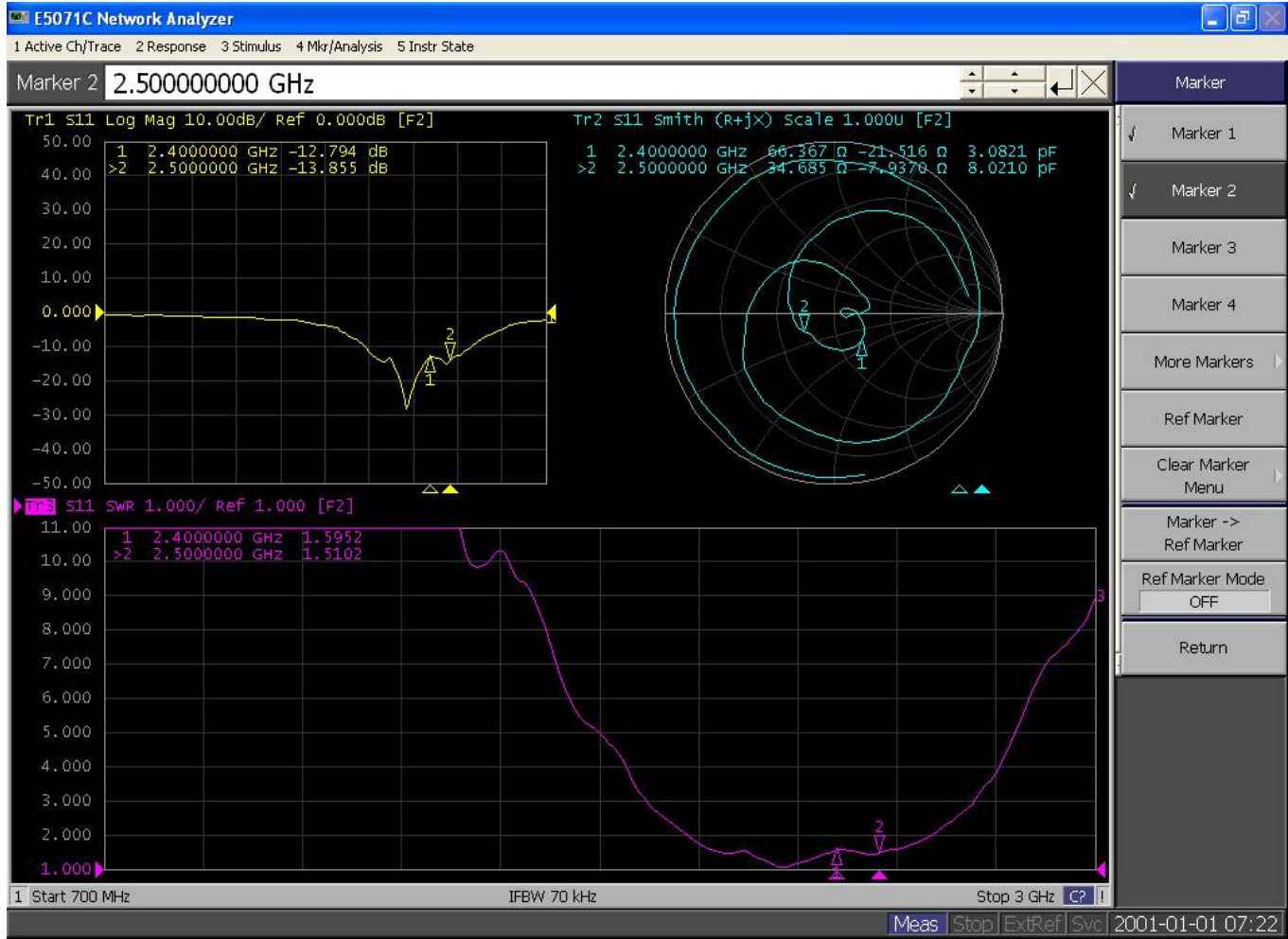
Frequency Range: 2400MHz-2500MHz
Operating Humidity: 85%R.H.MAX
Temperature Rating: -40℃~+85℃

3.1 The matching test value

Element	Value
E1(0402)	N/A
E2(0402)	0Ω
E3(0402)	N/A



3.2 VSWR:



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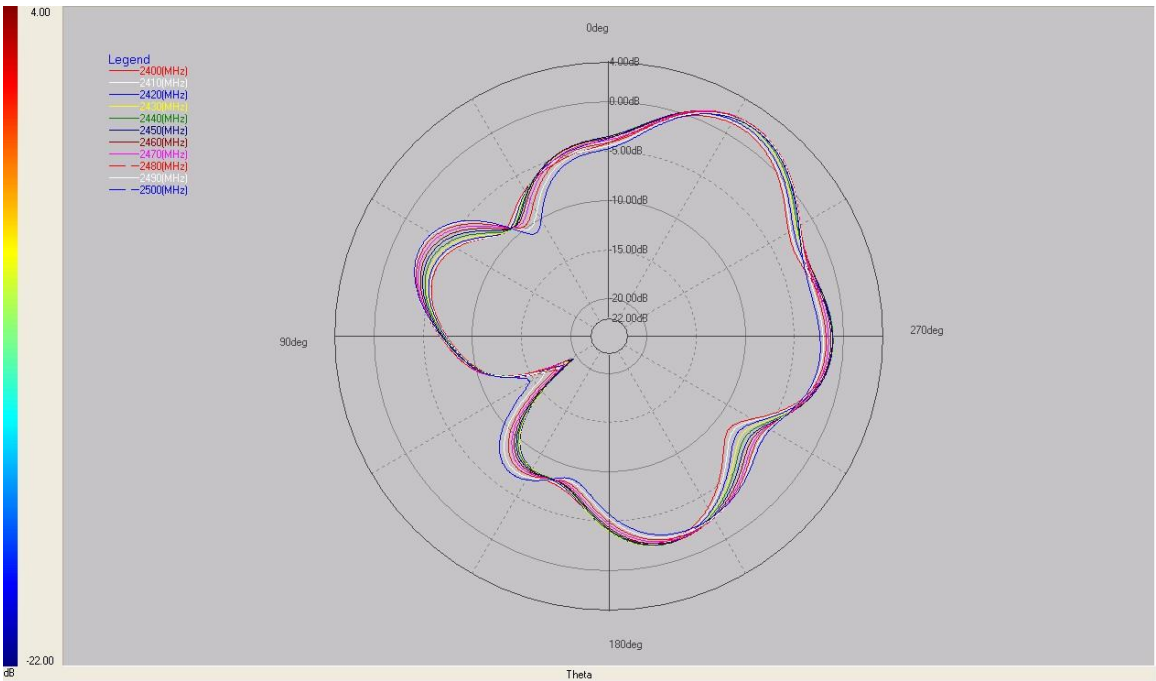
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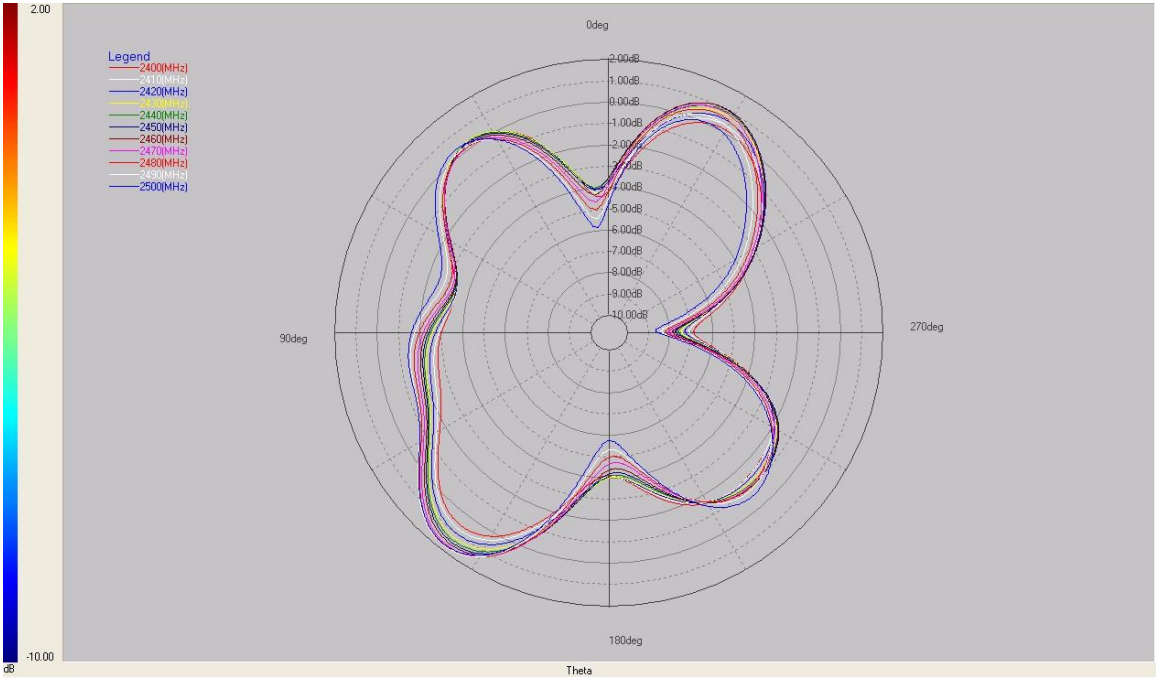
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3.3 Radiation Pattern

E1



E2



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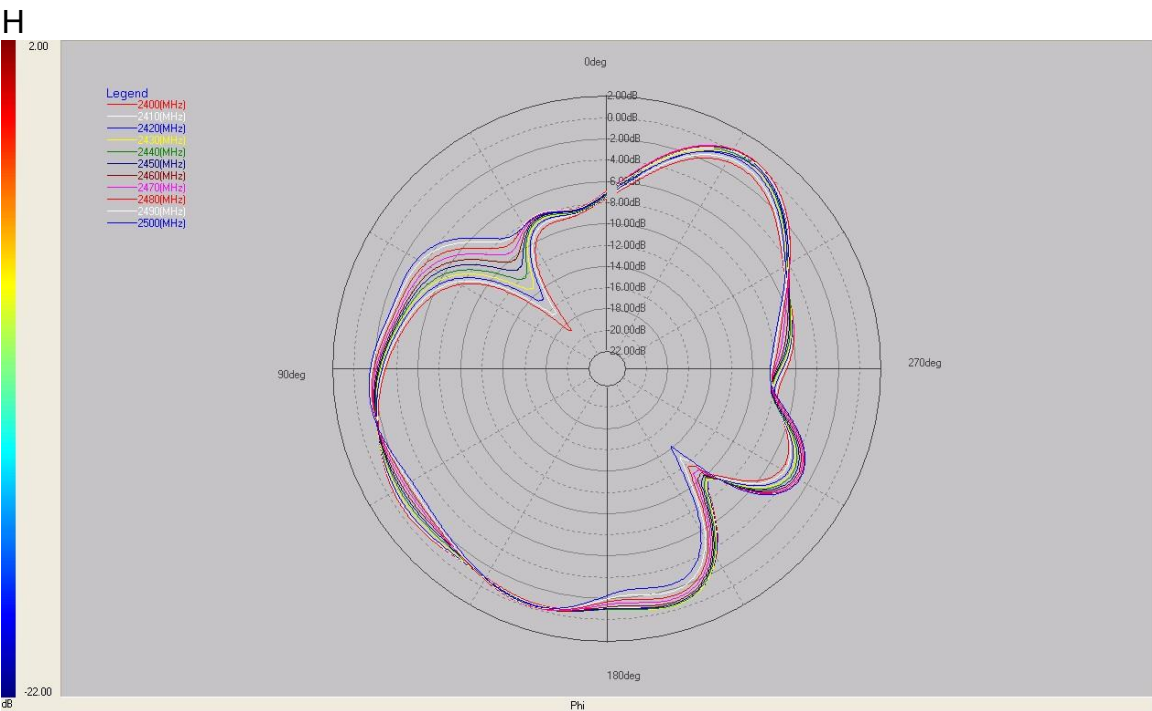
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3.4 Efficiency And Gain:

Fre	Effi	Effi . dB	Gain.dBi
2400	55.14%	-1.58	0.95
2410	56.12%	-1.51	0.91
2420	57.49%	-1.40	0.88
2430	58.79%	-1.31	0.84
2440	59.37%	-1.26	0.75
2450	60.15%	-1.21	0.69
2460	60.50%	-1.18	0.63
2470	60.30%	-1.20	0.59
2480	59.88%	-1.23	0.55
2490	59.11%	-1.28	0.45
2500	57.72%	-1.39	0.27