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CUSTOMER P/N	B127HX
PART NAME	Bluetooth Antenna
DWM NO.	/
APPROVAL REV.	R:A

CONTRACTOR			DATE : 2024-06-05
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

CUSTOMER		DATE :
Approved By	Checked By	Prepared By

Aoni	ProductSpecification		
	P/N:	Rev.: A	Page:

Content

Content2

1. Product Application.....3

2. The test environment, equipment.....3

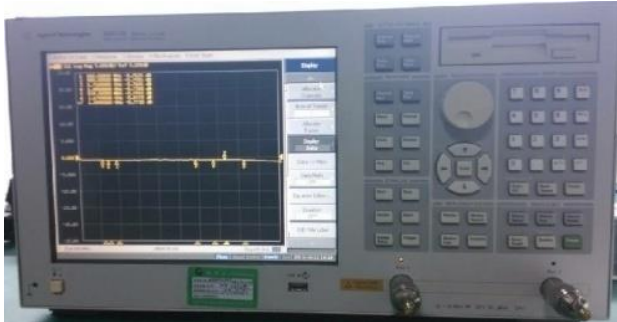
3. Technology Parameters.....

Aoni	Product Specification		
	P/N:	Rev.: A	Page:

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

ProductSpecification

P/N:

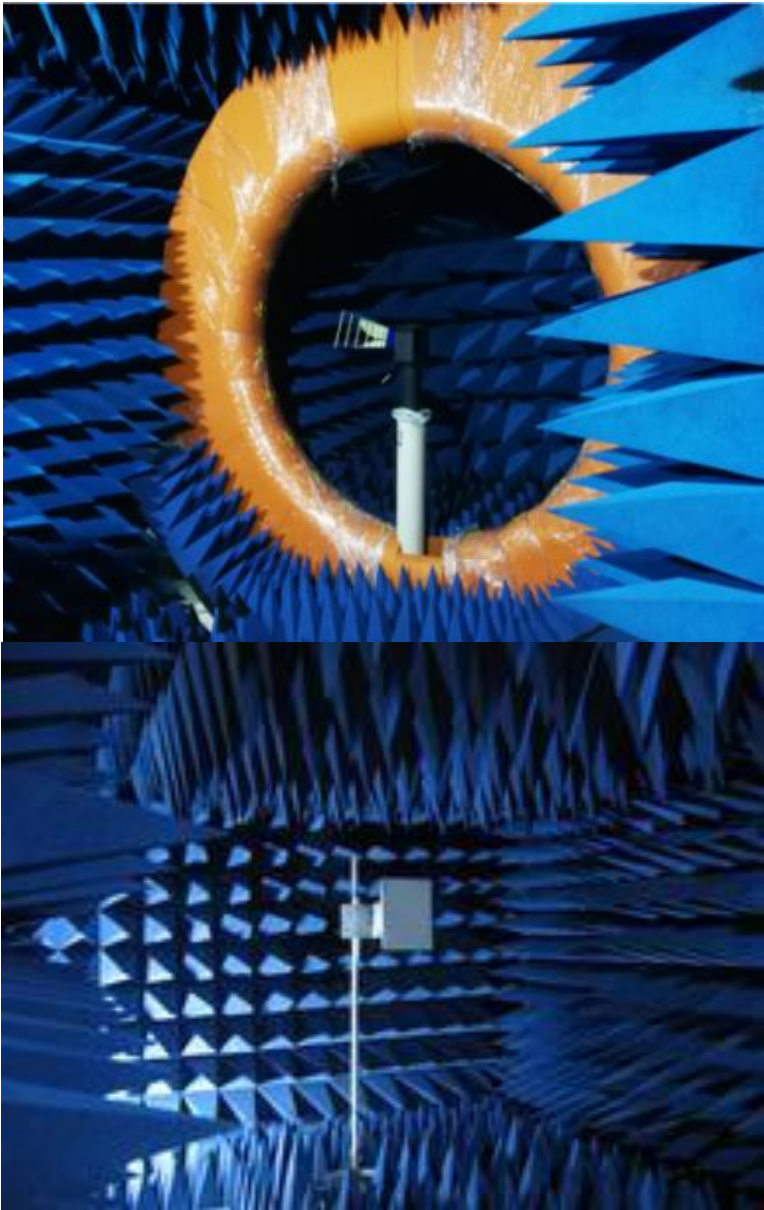
Rev.:

Page:

A

Aoni

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ProductSpecification

P/N:

Rev.:

Page:

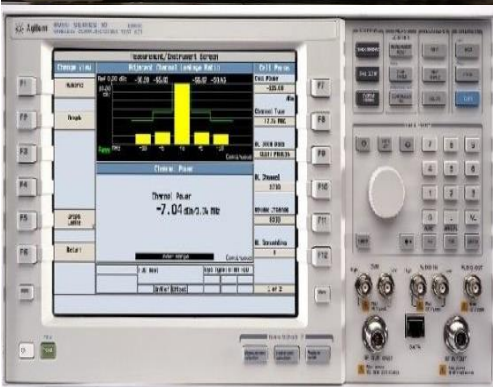
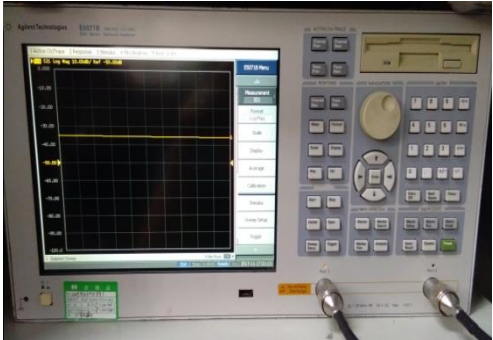
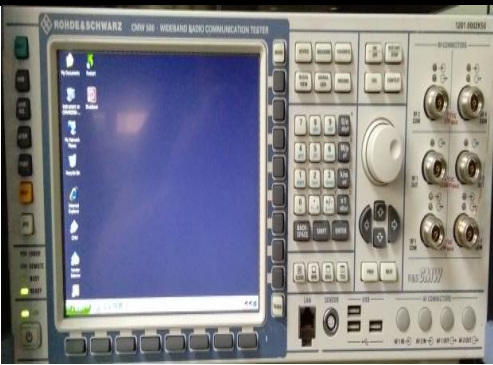
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Aoni

CMW500

Agilent5071B
AgilentE4405B

Agilent8960



ProductSpecification

P/N: Rev.: Page: A

Aoni

3.Technology Parameters

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

The antenna images:



Design Specifications	Typical	Units
Antenna type	PCB onboard	
Wprking Frequency	2400~2500	MHz
Gain	-5.27~-5.95	dBi
Antenna efficiency	25.14~30.50	%
VSER	<4	
Ploriaztion	Linear polarization	
Radiation	Omnidirectional	
impedance	50	ohm
Overall dimensions	11.7 * 6.7	mm
Operatin Temp	-30 ~ 70	° C
Storing Temp	-30 ~ 70	° C

ProductSpecification

P/N:

Rev.:

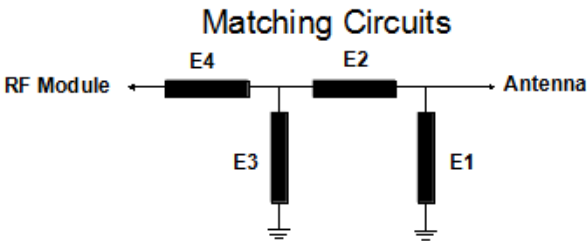
Page:

Aoni

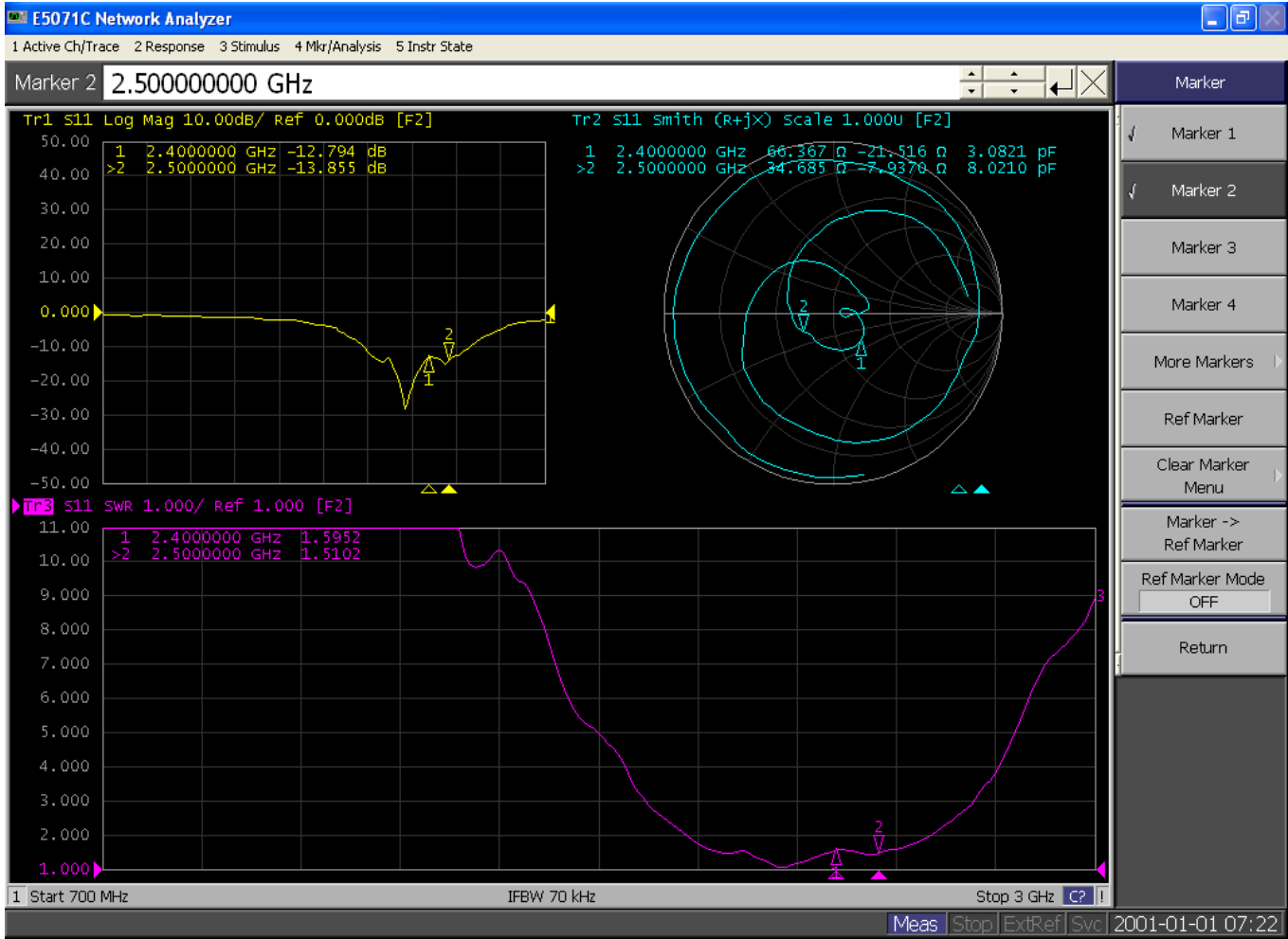
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The matching test value

Element	Value
E1(0402)	MDFN2C031US
E2(0201)	1nH
E3(0201)	N/A
E4(0201)	0Ω



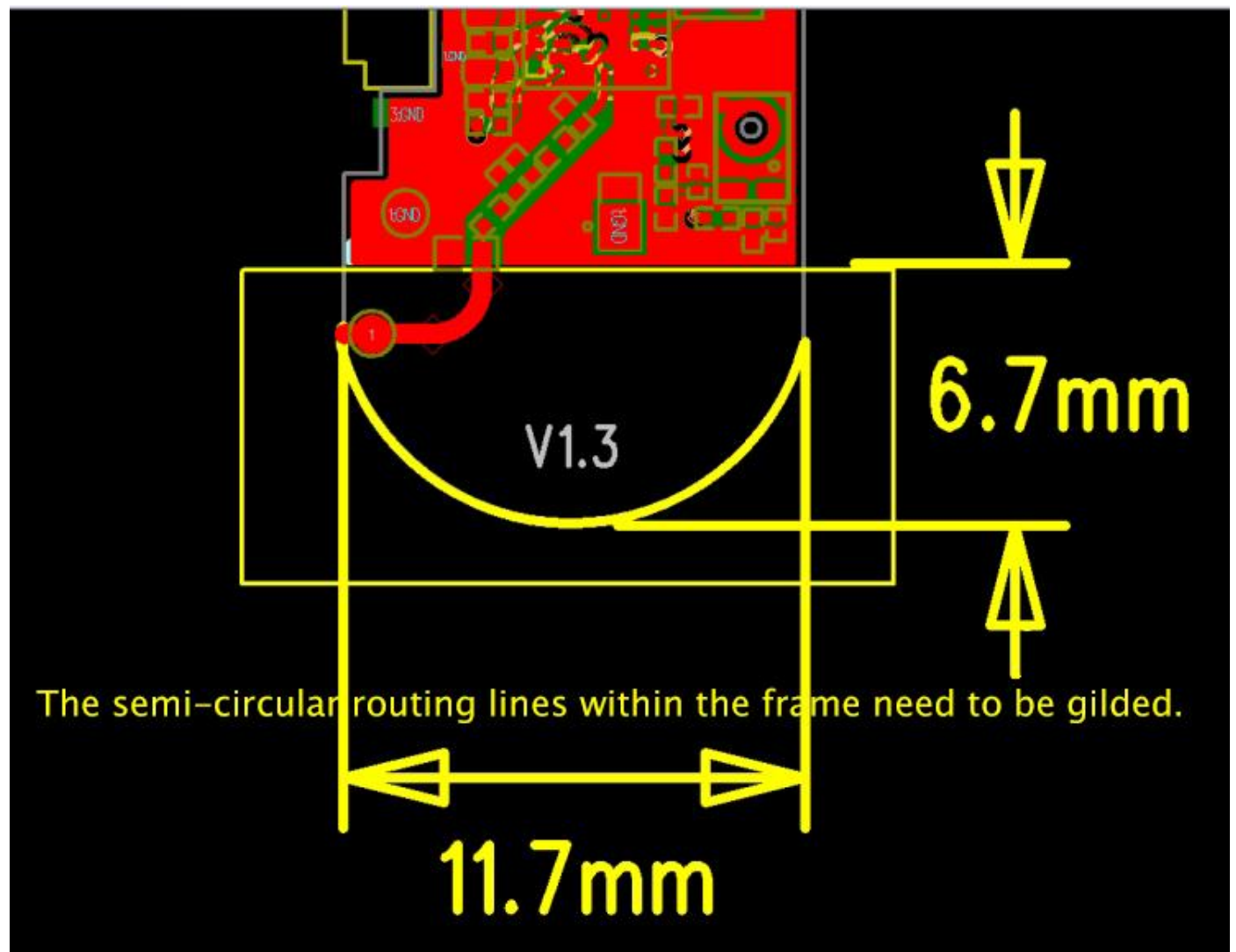
3.2 VSWR:



Aoni	Product Specification		
	P/N:	Rev.: A	Page:

3.3 Efficiency And Gain:

Fre	Effi	Effi . dB	Gain.dB
2400	25.14%	-3.58	-5.95
2410	26.12%	-3.51	-5.91
2420	27.49%	-3.40	-5.88
2430	28.79%	-3.31	-5.84
2440	29.37%	-3.26	-5.75
2450	30.15%	-3.21	-5.69
2460	30.50%	-3.18	-5.63
2470	30.30%	-3.20	-5.59
2480	29.88%	-3.23	-5.55
2490	29.11%	-3.28	-5.45
2500	27.72%	-3.39	-5.27



Aoni	ProductSpecification		
	P/N:	Rev.: A	Page: