

<b>CUSTOMER NAME</b>	Shenzhen Aoni Electronic Co.,Ltd
<b>Address</b>	No.5,Bldg.,Honghui Industrial Park,2nd Liuxian Road Baoan District,Shenzhen,China
<b>CUSTOMER P/N</b>	B405JL
<b>PART NAME</b>	Bluetooth Antenna
<b>DWM NO.</b>	
<b>APPROVAL REV.</b>	R:A

<b>CONTRACTOR</b>			<b>DATE : 2023-06-05</b>
<b>QA CHECKED</b>	<b>ME CHECKED</b>	<b>RF CHECKED</b>	<b>MANAGER CHECKED</b>

<b>CUSTOMER</b>		<b>DATE :</b>
<b>Approved By</b>	<b>Checked By</b>	<b>Prepared By</b>

**ProductSpecification**

Aoni

P/N:

Rev.:

Page:

A

**Content**

Content ..... 2  
1. Product Application ..... 3  
2. The test environment, equipment ..... 3  
3. Technology Parameters ..... 3

# Product Specification

Aoni

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	Passivetesting	The VSWR measurement devices are connected in sequence: Agilent5071B Network Analyzer →measurementCable → 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:

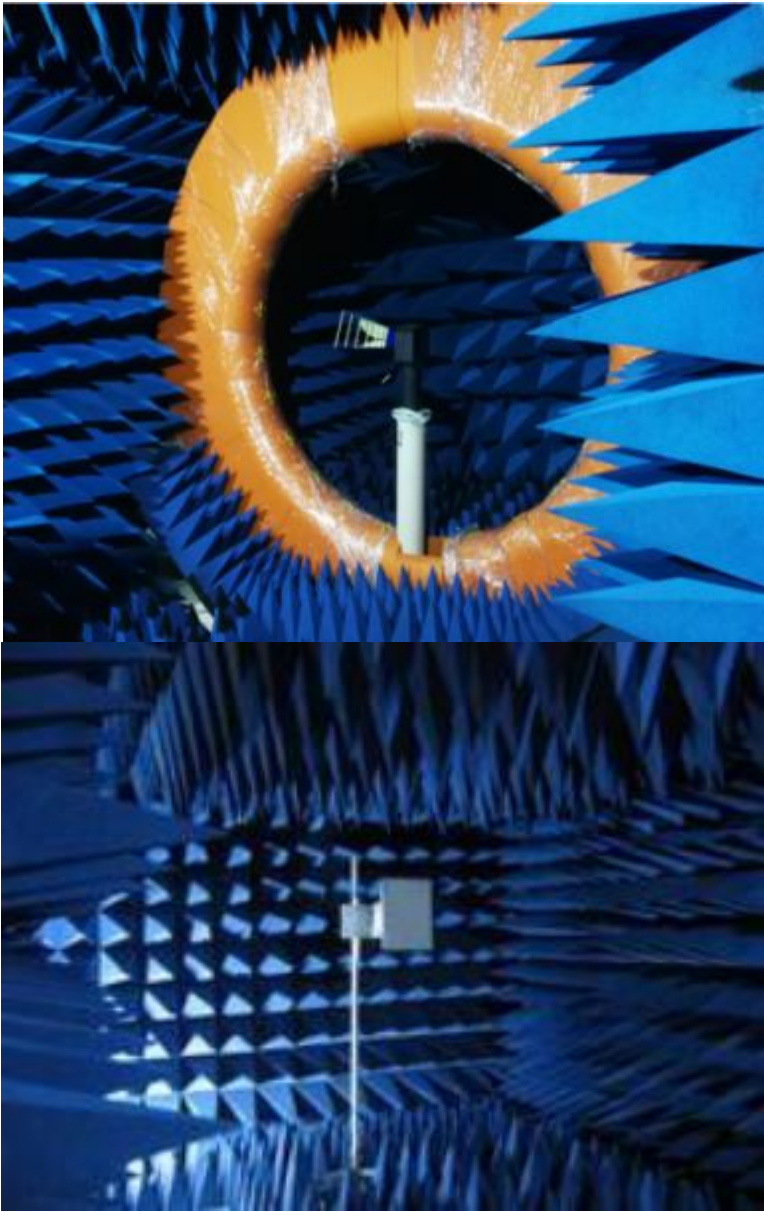
Rev.:

Page:

Aoni

A

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# Product Specification

P/N:

Rev.:

Page:

Aoni

A

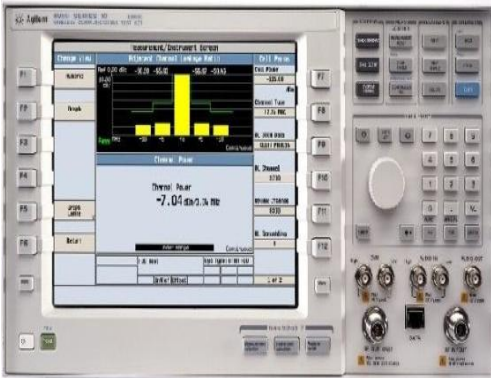
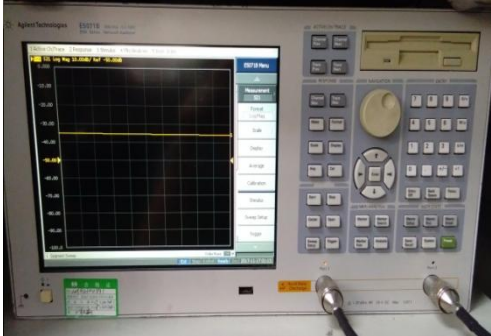
CMW500

Agilent5071B

AgilentE4405B

Agilent8960

2.4



# Product Specification

Aoni

P/N:

Rev.:

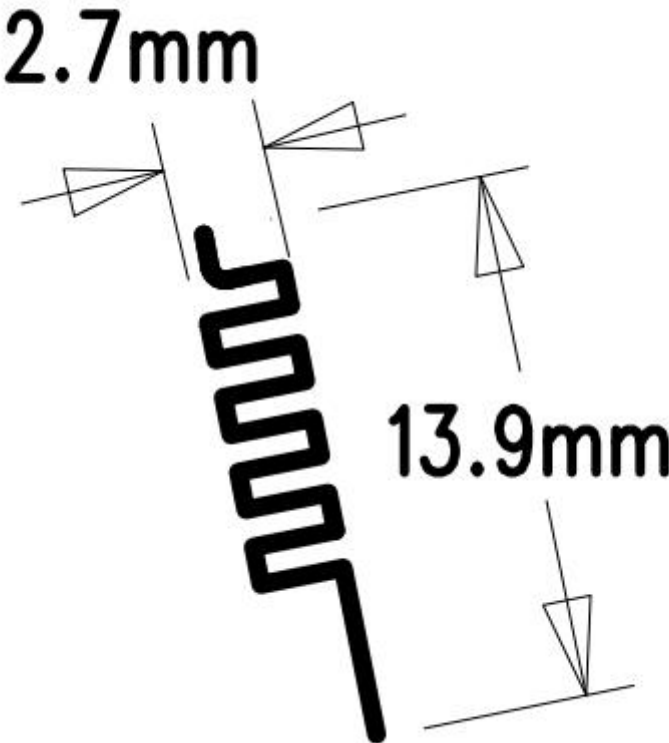
Page:

A

### 3. Technology Parameters

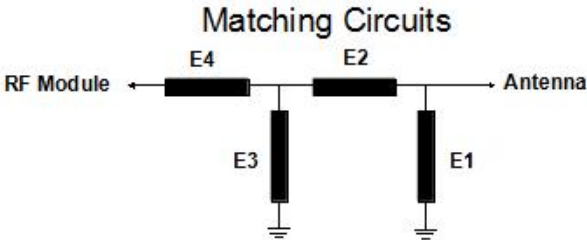
Frequency Range: 2400MHz-2500MHz  
Operating Humidity: 85%R.H.MAX  
Temperature Rating: -40°C ~ +85°C

#### 3.1 antenna size



#### 3.2 The matching test value

Element	Value
E1(0402)	2.7nH
E2(0402)	0Ω
E3(0402)	N/A
E4(0402)	0Ω



#### 3.3 VSWR:

# Product Specification

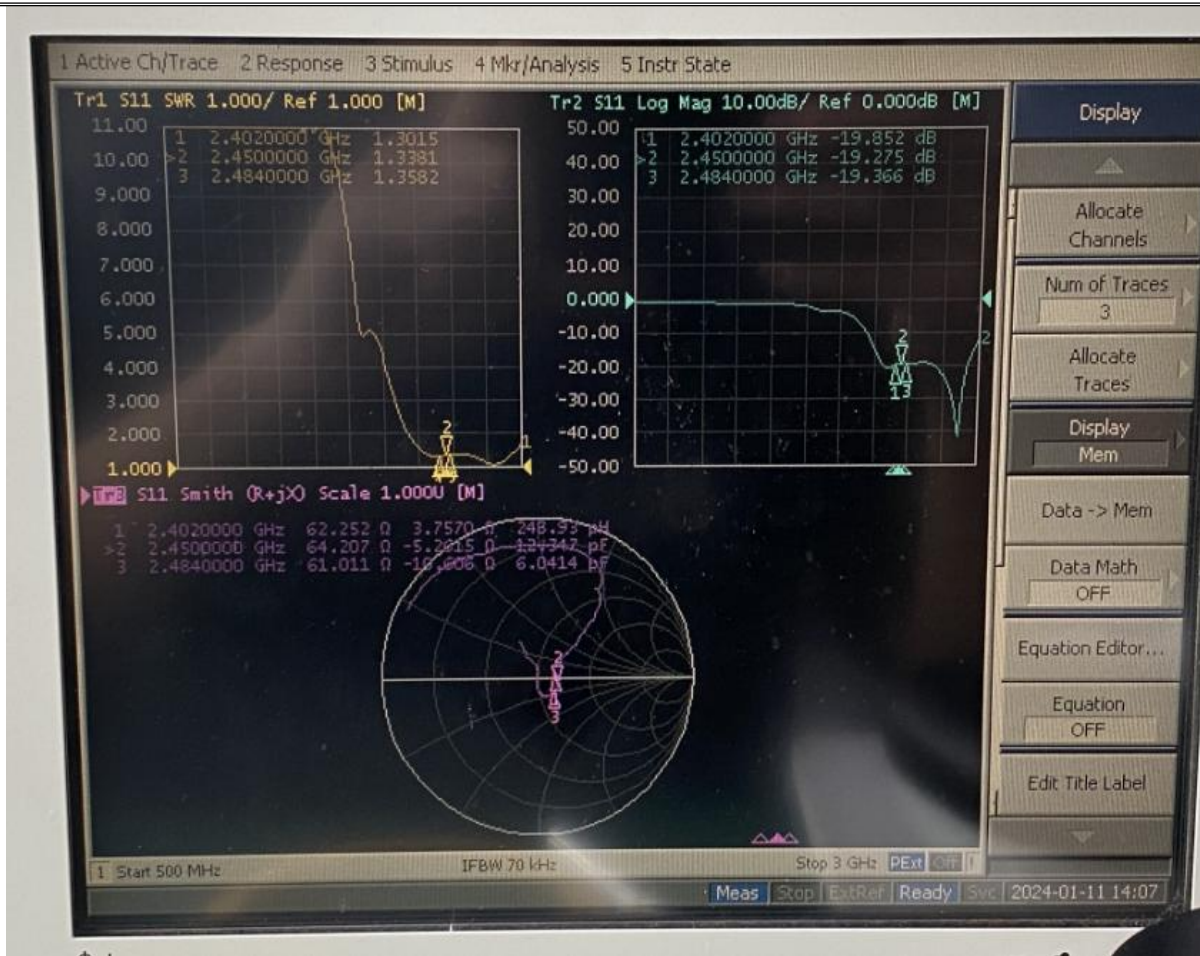
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P/N:

Rev.:

Page:

A



### 3.4 Efficiency And Gain:

Fre	Effi	Gain.dB
2400	46.7%	0.70
2410	46.9%	0.83
2420	45.2%	0.86
2430	47.0%	0.93
2440	46.6%	1.00
2450	49.3%	1.06
2460	50.1%	1.41
2470	48.8%	1.29
2480	46.0%	1.65
2490	45.0%	1.85
2500	43.8%	1.46

# Product Specification

Aoni

P/N:

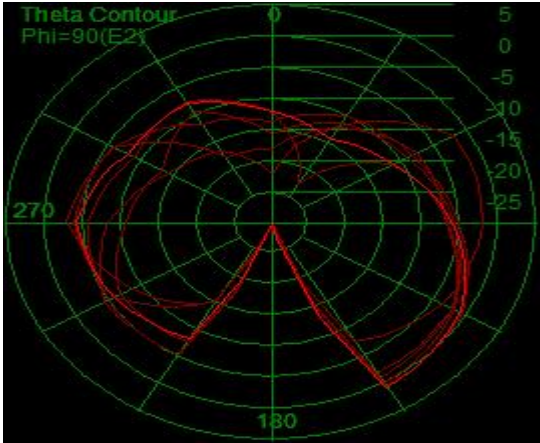
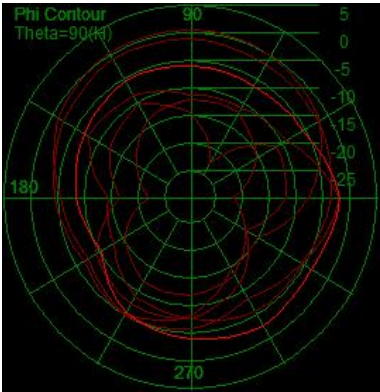
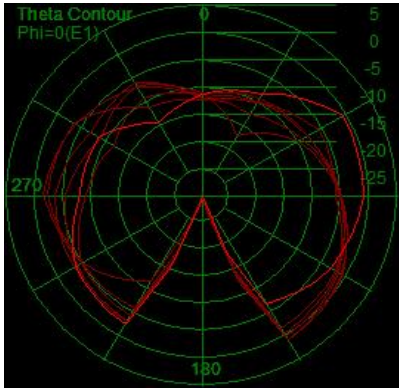
Rev.:

Page:

A

## 3.5 2D and 3D field patterns:

### 2D:



### 3D:



# Product Specification

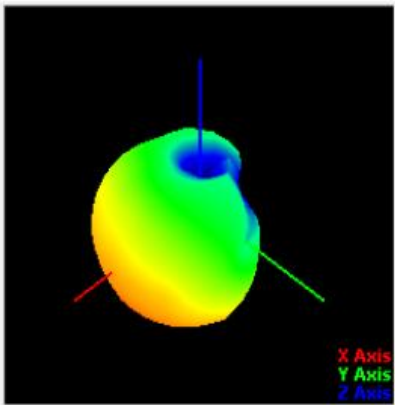
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P/N:

Rev.:

Page:

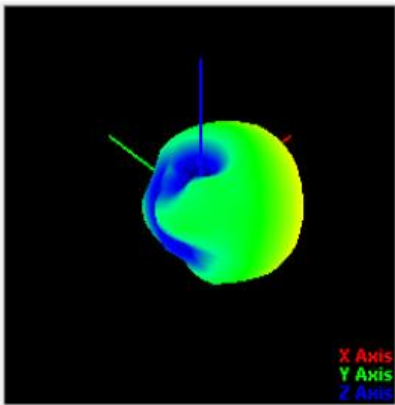
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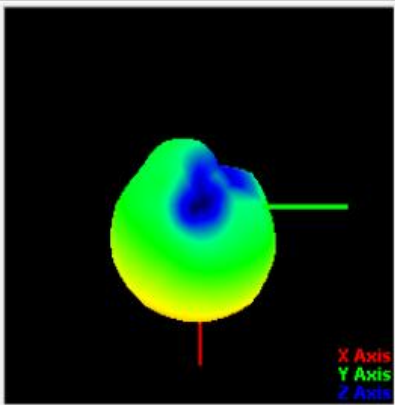
T45-P45



0.98  
-2.84  
-6.66  
-10.48  
-14.3  
-18.12  
-21.94  
-25.76  
-29.57  
-33.39  
-37.21  
-41.03  
-44.85  
-48.67  
-52.49  
-56.31  
-60.13  
-63.95



T45-F225



0.98  
-2.84  
-6.66  
-10.48  
-14.3  
-18.12  
-21.94  
-25.76  
-29.57  
-33.39  
-37.21  
-41.03  
-44.85  
-48.67  
-52.49  
-56.31  
-60.13  
-63.95

Coordination System Description:  
Line Colr XYZ Theta-Phi  
Red L. Axis X Theta90-Phi0  
Green L. Axis Y Theta90-Phi90  
Blue L. Axis Z Theta0