

# SPECIFICATION

*Shenzhen newcore electronics Co. , LTD*

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### Antenna

### Product acceptance letter

Customer	Shenzhen Zunte Digital Co. , LTD	Frequency segment	BT: 2402MHz-2480MHz
Project name	OBS-382		
Item No.	OBS-382	Face color	green
R F design	Kugentian	Structure	Kugentian
Technical director	Qu Gentian	Day period	2024-11-5
Antenna type	Onboard antenna	Model number	OBS-382
Company address	5th Floor, Building A1, Hangcheng Jinchi Industrial Park, North Eighth Road, Hezhou Bridge, Baoan District, Shenzhen		

Customer confirmation:

Call citation

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Security to ask

## Confidential Information

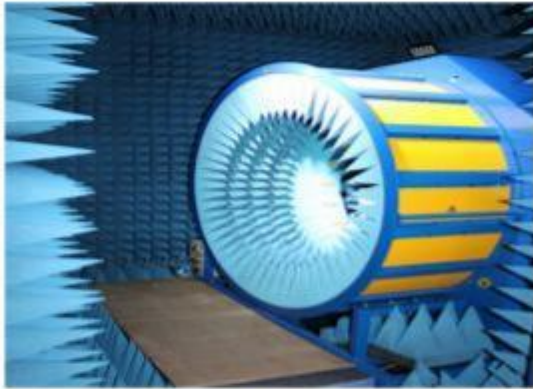
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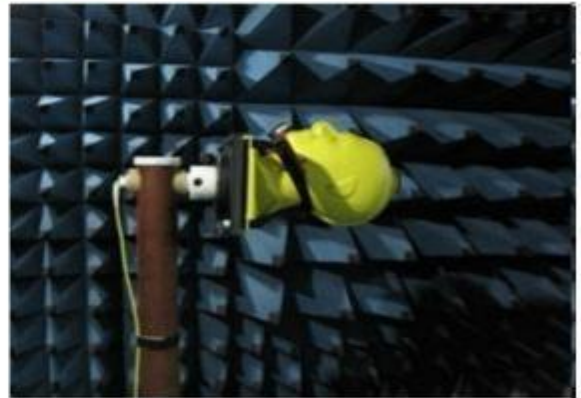
## 1. Test environment

### 1. Test the system

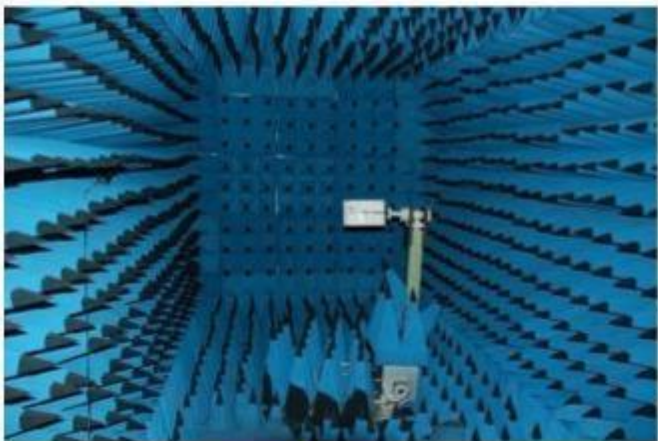
## chamber



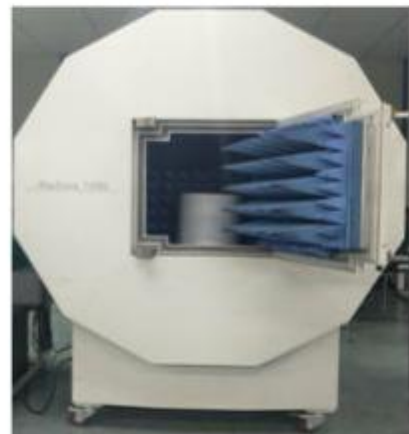
Satimo



Airlink



Guang Ping



GTS

Security to request

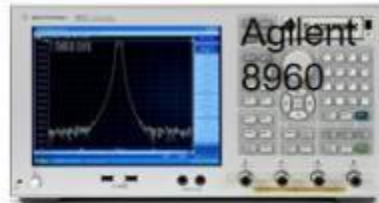
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## 2. Test the instrument

# equipment



Signal Generator

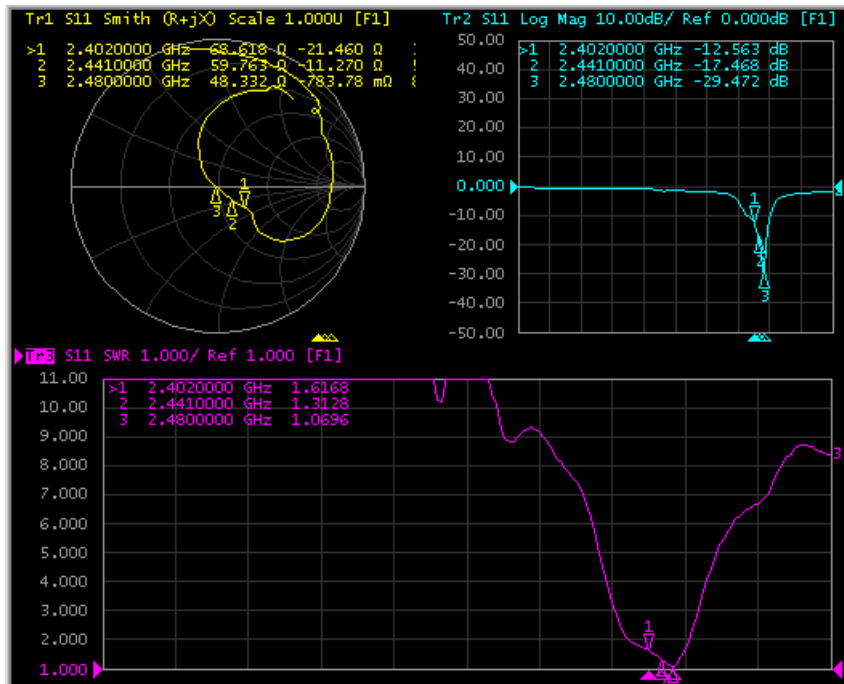


Keep it secret to ask

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## Ii. Passive test data

### 1.S parameter



### 2.Passive efficiency and gain efficiency &Gain

#### Passive efficiency gain (Free space)

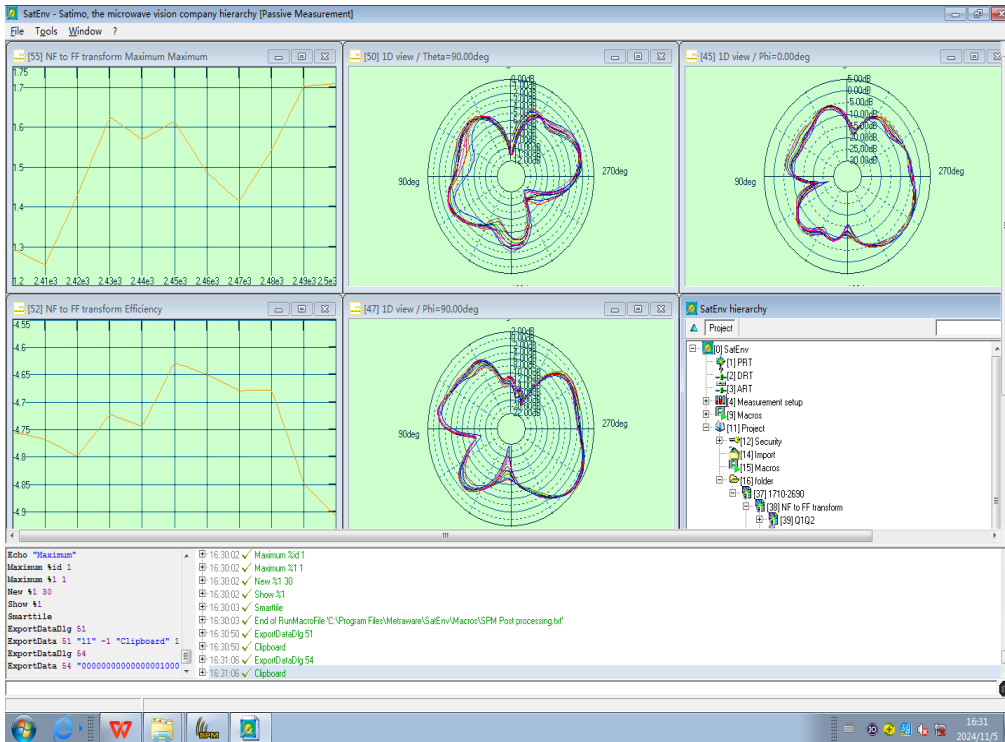
Frequency (MHz)	Efficiency %	Efficiency (dB)	Gain (dBi)
2400	33.46%	-4.75	1.30
2410	33.36%	-4.77	1.26
2420	33.12%	-4.80	1.43
2430	33.71%	-4.72	1.63
2440	33.54%	-4.74	1.57
2450	34.45%	-4.63	1.62
2460	34.28%	-4.65	1.49
2470	34.05%	-4.68	1.41
2480	34.06%	-4.68	1.54
Average	33.8%	-4.71	1.47
Phi=0° Cut= XZ Plane			
Phi=90° Cut= YZ Plane			
Theta=90° Cut= XY Plane			

#### Keep secret to ask

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### 3. Passive direction Diagram (Free space)



## Three. Active Test Data

### 1. TRP&TIS

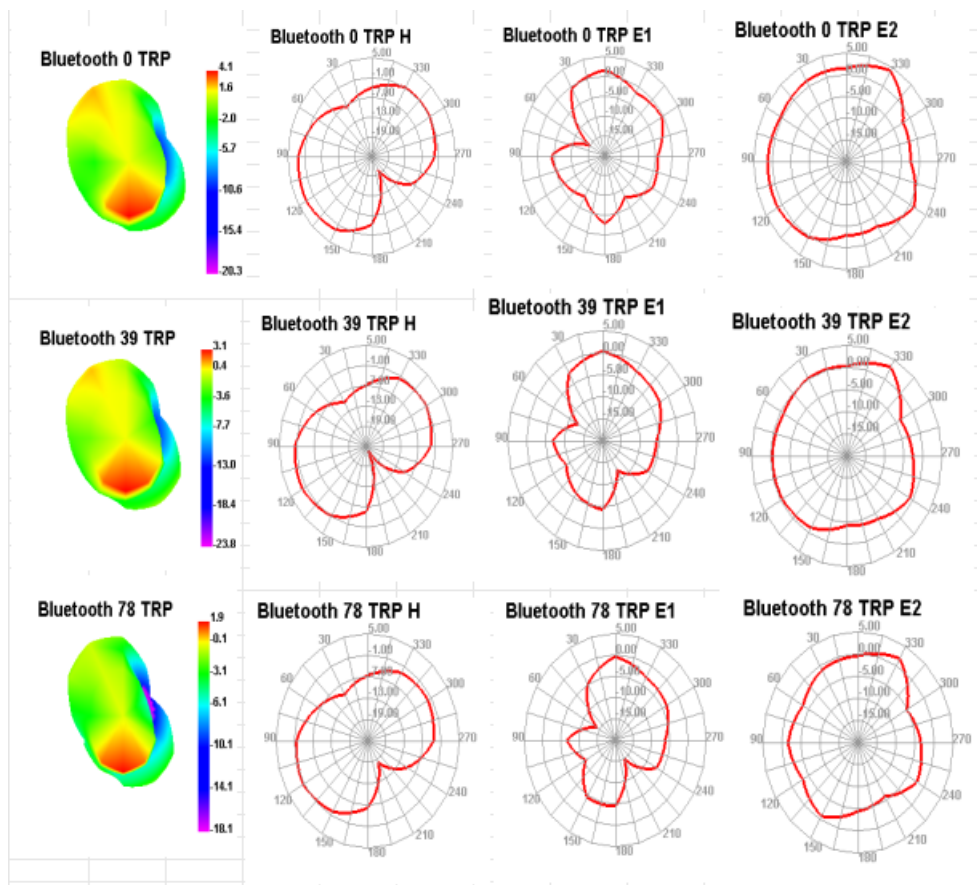
#### Free space

Channel CH	TRP (dBm)	TIS (dBm)
2402	2441	2480
-1.38	-2.85	-4.07
-80.96	-81.49	-79.96

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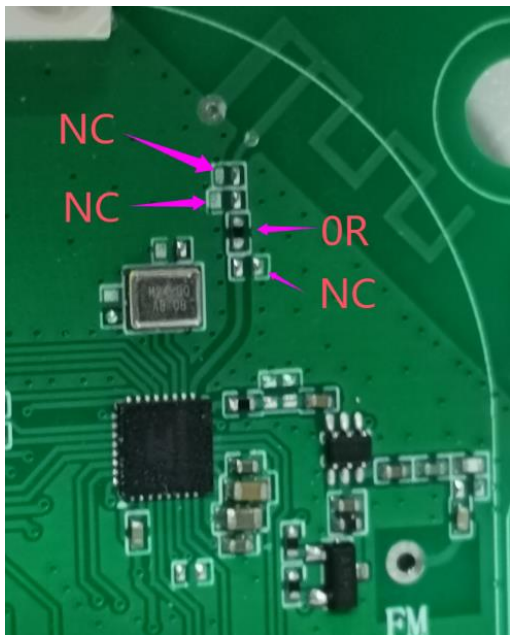
## 2.Direction map



### Security is required

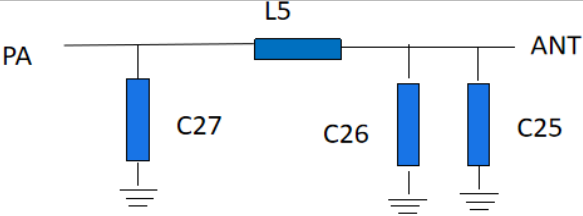
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V、Antenna matching circuit



Matching circuit

Matching circuit	C27	L5	C26	C25
Value	22NH	ESD	0Ω	NC



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