

# SPECIFICATION

Shenzhen Strongpower Communication Co., Ltd

ShenzhenStrongpowerCommunicationCo., Ltd.

**Steel Right Bluetooth Aantenna**

**SPECIFICATION**

Customer	联创	Frequency Band	2402MHz-2480MHz
Model	Steel	Antenna type	FPC antenna
Antenna model	Steel-BT-R	Color	Black
RF designer	He Yibai	Structural engineer	Zhou Jun
Technical director	Fu Yicheng	Date	2024-10-28

Confirm by customer:

Address：Room 502, Building W2-A, Gaoxin South Fourth Road, Nanshan District, Shenzhen

# INDEXES

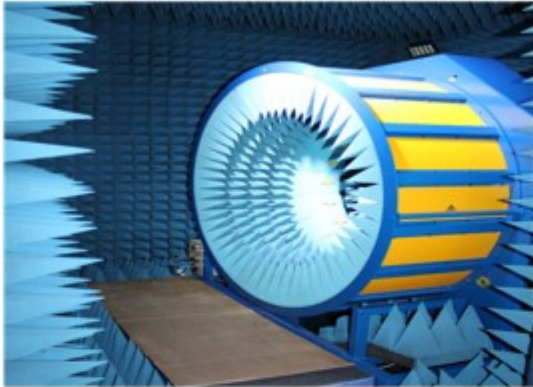
1. The equipment of Active&Passive test.....	3-4
2. Passive test.. .....	5-6
2.1 S Parameters.. .....	5
2.2 Passive Efficiency and Gain .....	5
2.3 Passive pattern.....	6
3.Active test.. .....	6
3.1 TRP&TIS test.....	6
4. Matching Circuit..... .....	7
5. Drawings..... .....	8

Confidentiality requirements

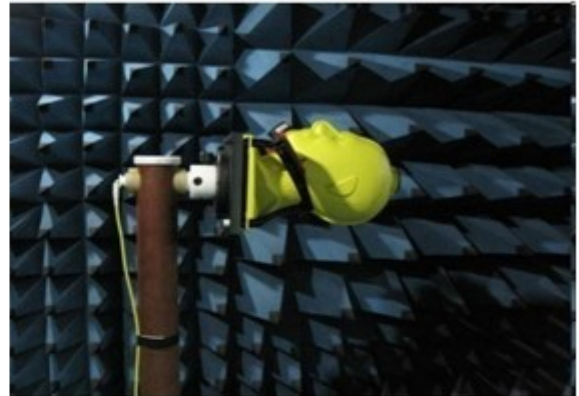
Strongpower Communication Co., Ltd. has the information provided by proprietary technology, which shall be kept strictly confidential and shall not be disclosed to any person or company without the prior written consent of Strongpower Communication Technology Co., Ltd.

## 1. The Equipment of Active&Passive Test

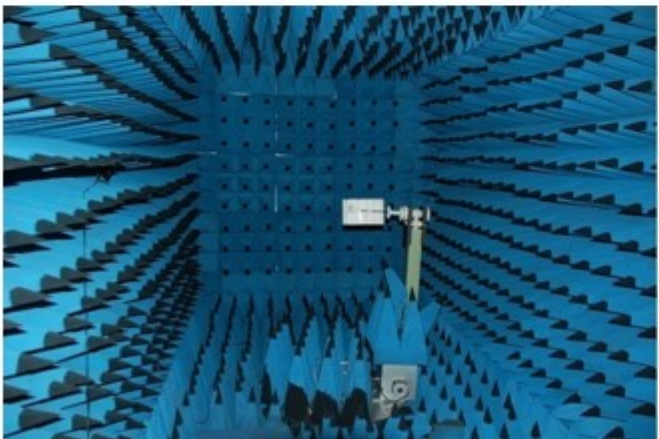
### chamber



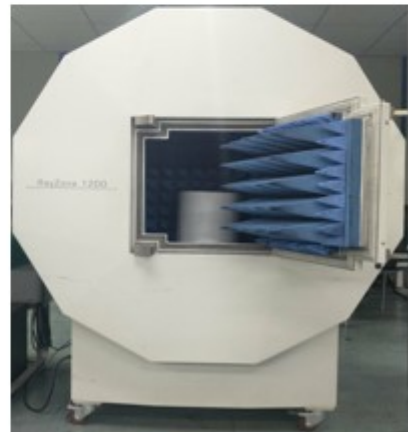
Satimo



Airlink



Guang Ping



GTS

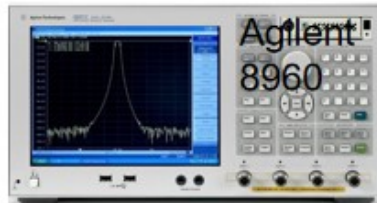
Confidentiality requirements

Strongpower Communication Co., Ltd. has the information provided by proprietary technology, which shall be kept strictly confidential and shall not be disclosed to any person or company without the prior written consent of Strongpower Communication Technology Co., Ltd.

# equipment



R&S  
CMW500



Agilent  
8960



Anritsu  
MT8820C



Agilent  
N4010A



Agilent  
E4438C  
Signal  
Generator



Agilent  
E5071C

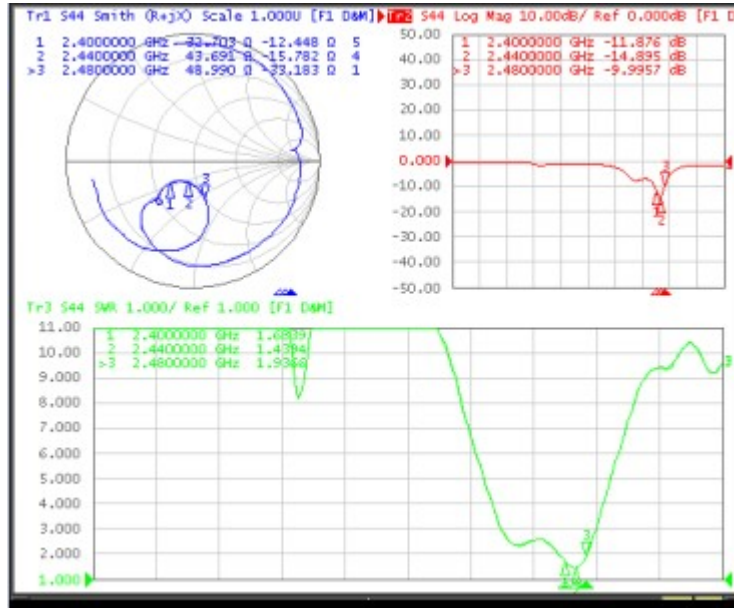


## Confidentiality requirements

Strongpower Communication Co., Ltd. has the information provided by proprietary technology, which shall be kept strictly confidential and shall not be disclosed to any person or company without the prior written consent of Strongpower Communication Technology Co., Ltd.

## 2. Passive Test

### 2.1 S Parameters, VSWR, Return loss, Smith Chart



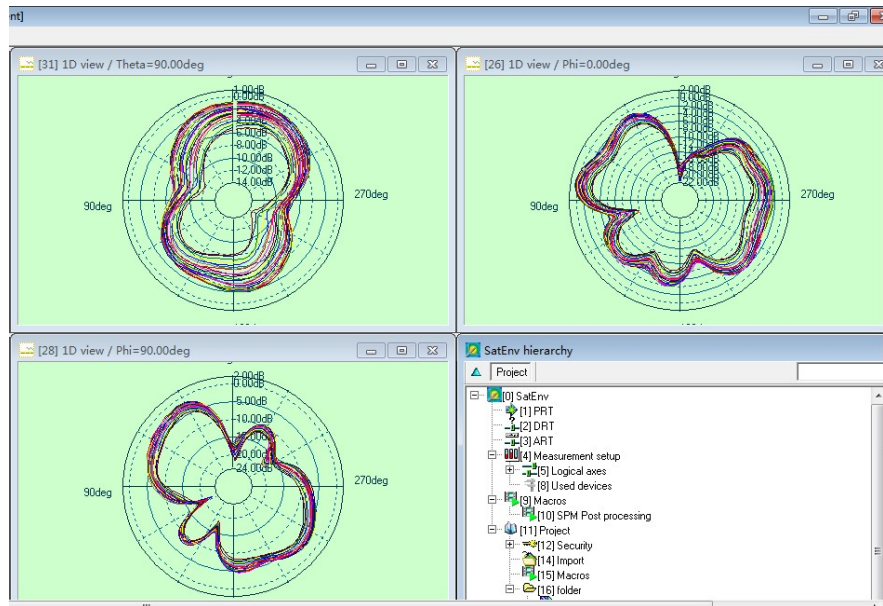
### 2.2 Passive Efficiency and Gain

频率 (MHz)	效率 (%)	效率 (dB)	增益 (dBi)
2400	35.03%	-4.56	-0.08
2410	34.97%	-4.56	0.05
2420	33.77%	-4.72	-0.29
2430	33.76%	-4.72	-0.46
2440	32.39%	-4.90	-0.53
2450	32.36%	-4.90	-0.40
2460	31.31%	-5.04	-0.36
2470	30.49%	-5.16	-0.22
2480	29.83%	-5.25	-0.25

Confidentiality requirements

Strongpower Communication Co., Ltd. has the information provided by proprietary technology, which shall be kept strictly confidential and shall not be disclosed to any person or company without the prior written consent of Strongpower Communication Technology Co., Ltd.

## 2.3 Passive pattern



## 3.Active test

### 3.1 TRP&TIS

#### FS

信道 CH	TRP (dBm)	TIS (dBm)
0	4.94	-90.92
39	5.05	-91.06
78	5.06	-91.19

#### HR

信道 CH	TRP (dBm)	TIS (dBm)
0	-4.01	-83.39
39	-4.45	-83.86
78	-4.62	-83.85

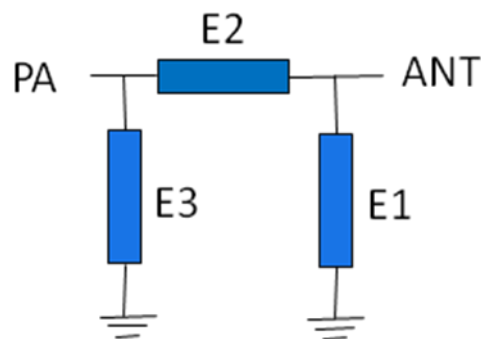
#### Confidentiality requirements

Strongpower Communication Co., Ltd. has the information provided by proprietary technology, which shall be kept strictly confidential and shall not be disclosed to any person or company without the prior written consent of Strongpower Communication Technology Co., Ltd.

#### 4. Matching Circuit

Left&Right are the same

Element	E1	E2	E3
Value	NC	2.7NH	1PF



#### 5.Drawings

(next page)

Confidentiality requirements

Strongpower Communication Co., Ltd. has the information provided by proprietary technology, which shall be kept strictly confidential and shall not be disclosed to any person or company without the prior written consent of Strongpower Communication Technology Co., Ltd.