

SPECIFICATION

Shenzhen Strongpower Communication Co., Ltd

ShenzhenStrongpowerCommunicationCo., Ltd. E108DC Bluetooth Aatenna SPECIFICATION

Customer		Frequency Band	2402MHz-2480MHz
Model	E108DC		
Serial No		Color	
RF designer	Zou Lijun	Structural engineer	Zhou Jun
Technical director	Fu Yicheng	Date	2023/10/26

Confirm by customer:

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Confidentiality requirements

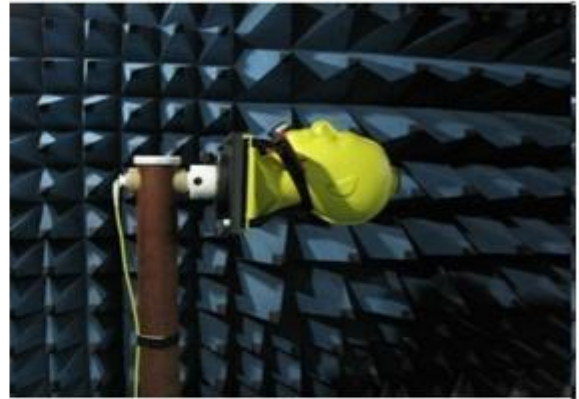
Strongpower Communication Co., Ltd. has the information provided by proprietary technology, which shall be kept strictly confidential and shall not be disclosed to any person or company without the prior written consent of Strongpower Communication Technology Co., Ltd.

1. The Equipment of Active&Passive Test

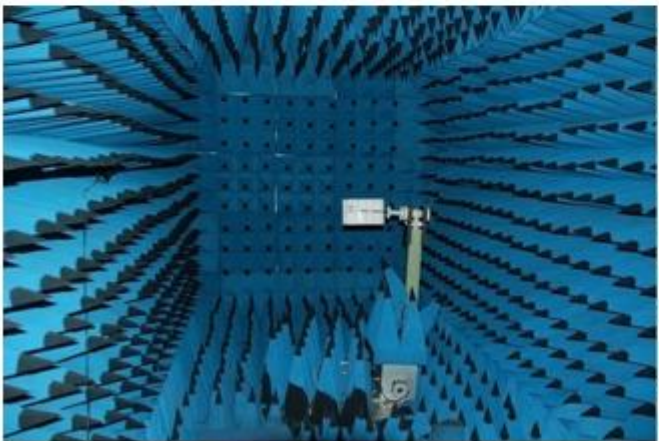
chamber



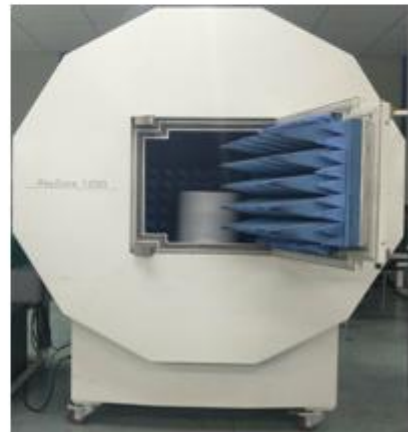
Satimo



Airlink



Guang Ping

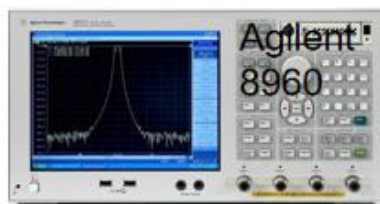


GTS

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equipment



Confidentiality requirements

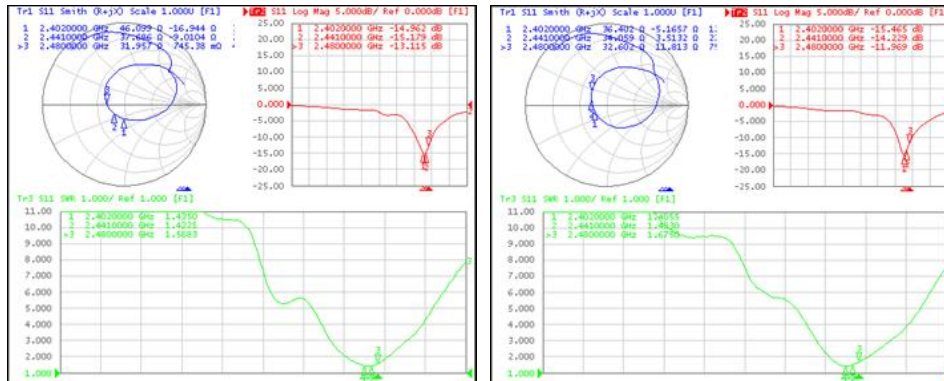
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2. Passive Test

2.1 S Parameters, VSWR, Return loss, Smith Chart

R

L



2.2 Passive Efficiency and Gain

R

L

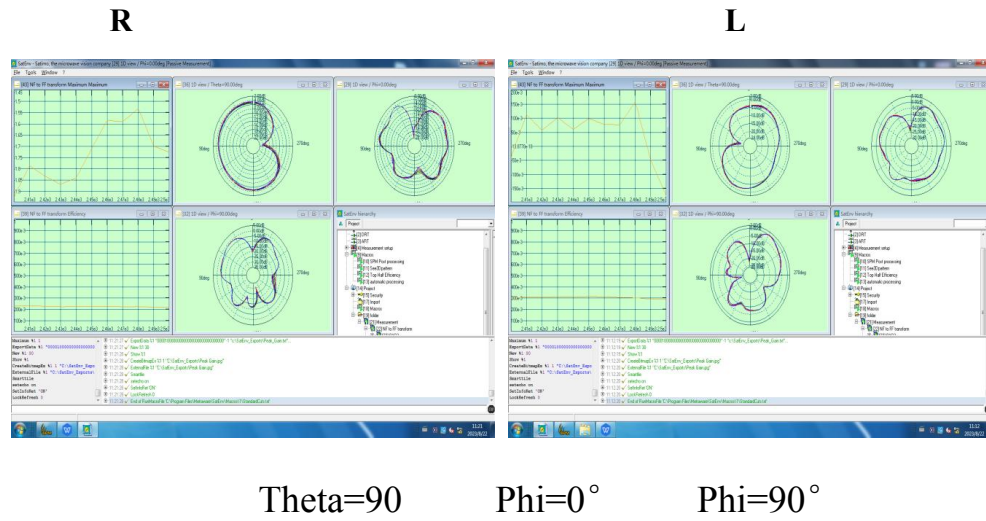
频率 (MHz)	Efficiency%	Gain dBi
2400	23.01%	-1.92
2410	23.25%	-1.79
2420	22.71%	-1.83
2430	22.47%	-1.87
2440	22.49%	-1.84
2450	22.80%	-1.71
2460	22.82%	-1.58
2470	22.37%	-1.59
2480	22.50%	-1.53

频率 (MHz)	Efficiency%	Gain dBi
2400	29.99%	-0.04
2410	30.97%	0.11
2420	30.87%	0.06
2430	31.17%	0.10
2440	31.19%	0.06
2450	31.53%	0.10
2460	31.39%	0.08
2470	30.58%	0.08
2480	30.27%	0.16

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2.3 Passive pattern



3.Active test

3.1 TRP&TIS

FS-R

信道 CH	TRP (dBm)	TIS (dBm)
0	2.08	-88.65
39	2	-89.45
78	1.75	-89.82

HR

信道 CH	TRP (dBm)	TIS (dBm)
0	-3.04	-84.49
39	-3.02	-85.05
78	-3.09	-85.03

FS-L

信道 CH	TRP (dBm)	TIS (dBm)
0	2.36	-88.7
39	2.42	-90.12
78	1.83	-90.43

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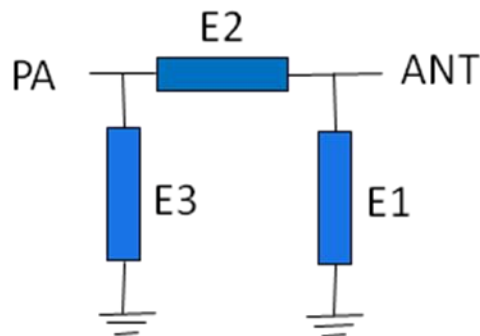
HL

信道 CH	TRP (dBm)	TIS (dBm)
0	-3.49	-84.83
39	-3.41	-84.99
78	-3.4	-85.08

4. Matching Circuit

Left&Right are the same

Element	E1	E2	E3
Value	NC	0 Ω	NC



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