

SPECIFICATION

Shenzhen Strongpower Communication Co., Ltd

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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:

INDEXES

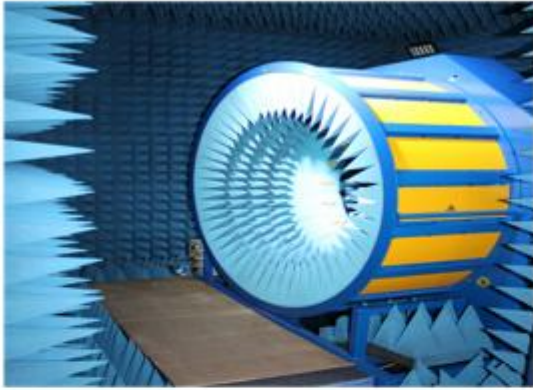
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Confidentiality requirements

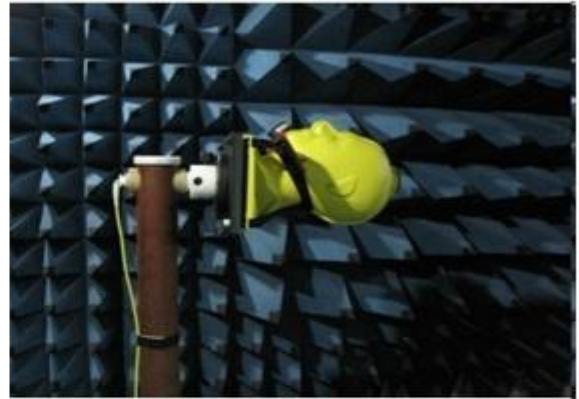
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1. The Equipment of Active&Passive Test

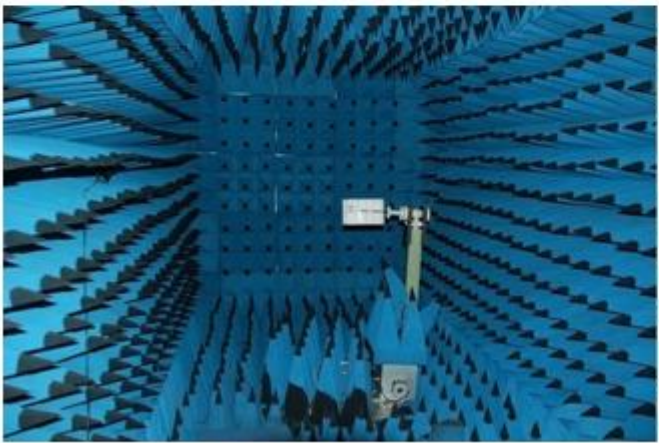
chamber



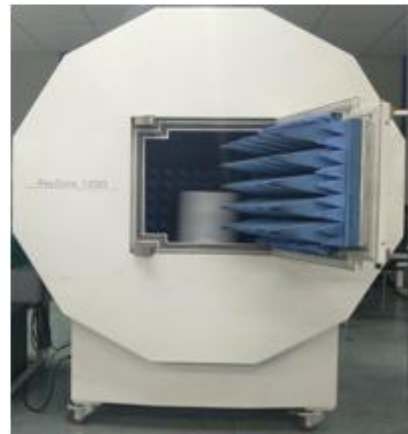
Satimo



Airlink



Guang Ping

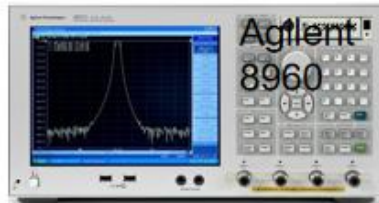


GTS

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equipment



Confidentiality requirements

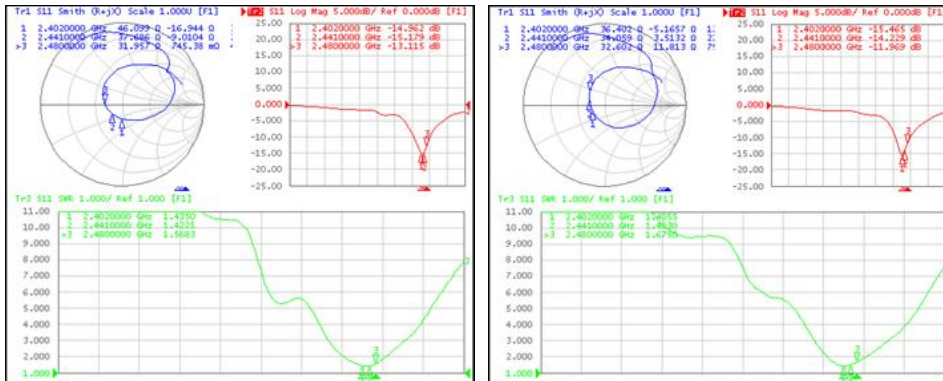
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2. Passive Test

2.1 S Parameters, VSWR, Return loss, Smith Chart

R

L



2.2 Passive Efficiency and Gain

R

L

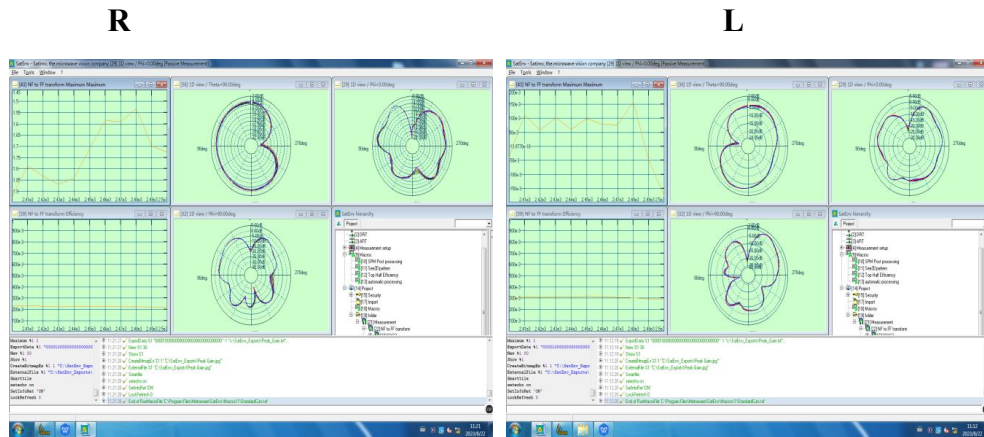
频率 (MHz)	Efficiency%	Gain dBi
2400	23.01%	-1.92
2410	23.25%	-1.79
2420	22.71%	-1.83
2430	22.47%	-1.87
2440	22.49%	-1.84
2450	22.80%	-1.71
2460	22.82%	-1.58
2470	22.37%	-1.59
2480	22.50%	-1.53

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



Theta=90 Phi=0° Phi=90°

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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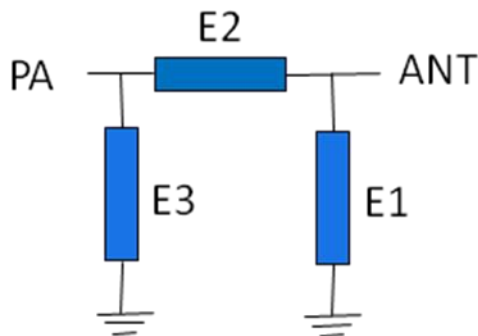
HL

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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