

SPECIFICATION

Shenzhen new core electronics Co., LTD

Shenzhen Xinlianxin Electronics Co., LTD.

Shenzhen new core electronics Co

antenna

Product Acknowledgment

Client	Tianjian Electroacoustic Co., LTD	Frequency range	BT: 2402MHz-2480MHz
Project name	R1237B		
Project number	R1237B	Pigment	Black
RF design	Li Feng	Structure	Li Feng
Technical Director	Li Feng	Date	2025-03-21
Antenna type	Built-in antenna	Model	R1237B
Company address	A1, 5th Floor, Hangcheng Jincheng Industrial Park, Beibao Road, Hezhou Bridge Bottom, Baoan District, Shenzhen		

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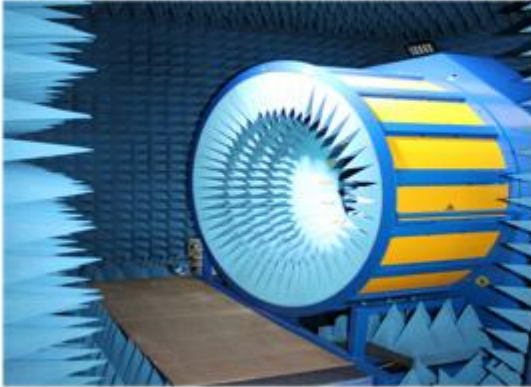
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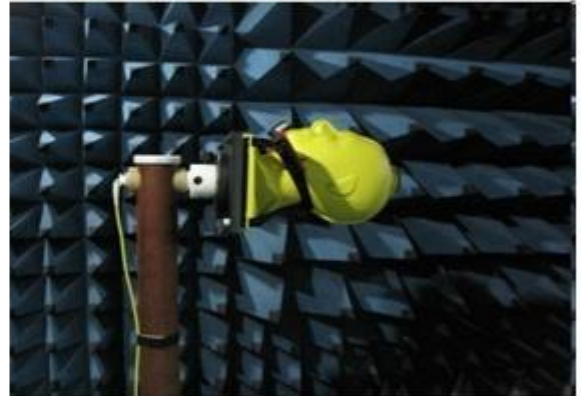
I. Test environment

1. test macro

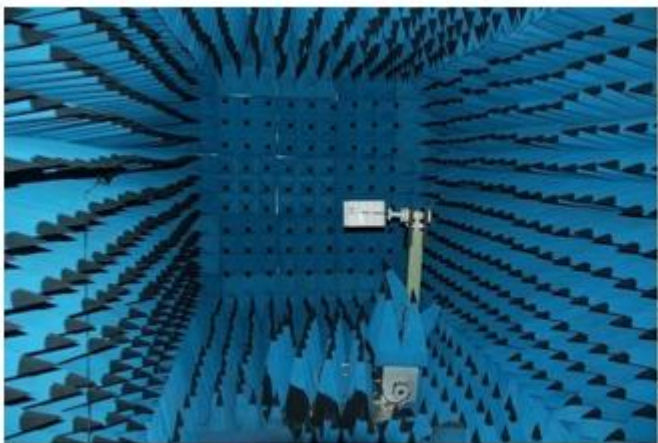
chamber



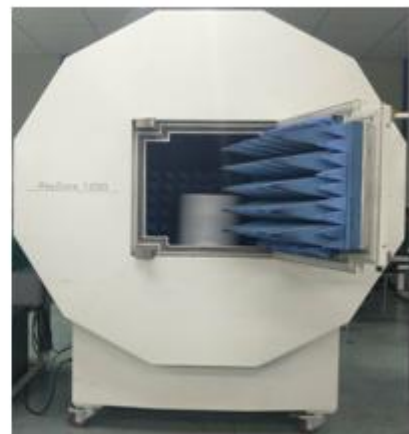
Satimo



Airlink



Guang Ping



GTS

Confidentiality requirements

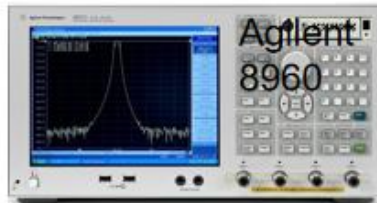
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2.measuring and test instruments

equipment



R&S
CMW500



Agilent
8960



Anritsu
MT8820C



Agilent
N4010A



Agilent
E4438C
Signal
Generator



Agilent
E5071C

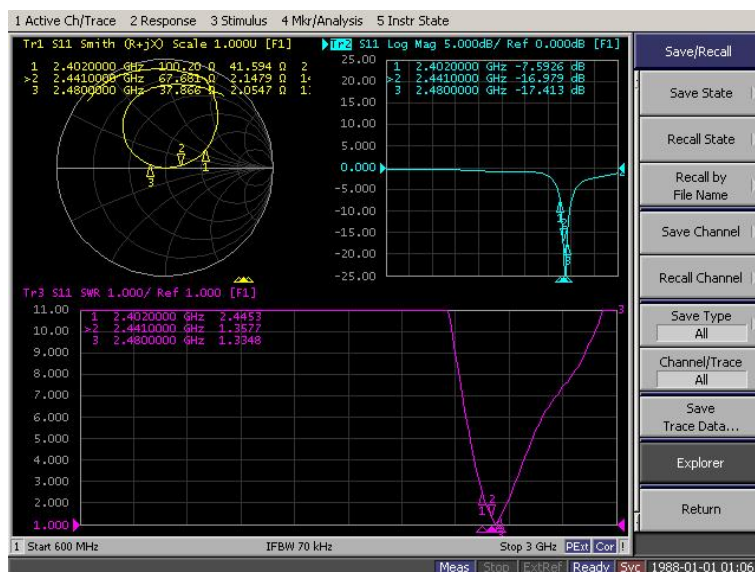


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II. Passive test data

1.S parameter



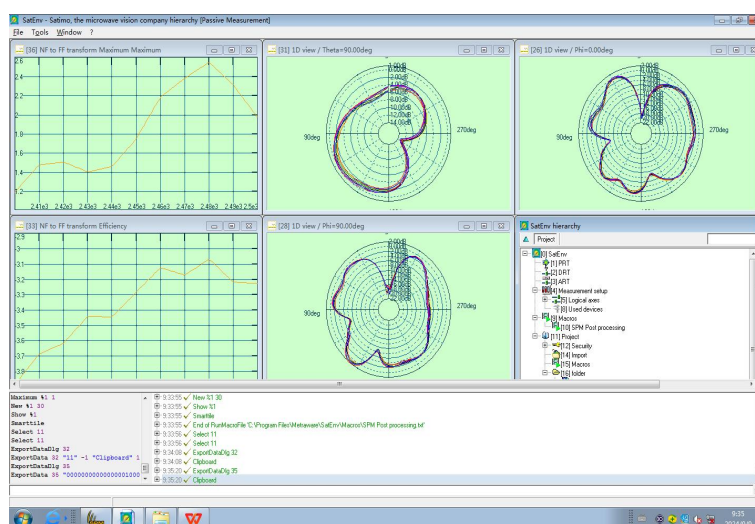
2. Passive efficiency and gain Efficiency&Gain

Frequency (MHz)	Productivene ss (%)	Producti veness (dB)	Gain (dBi)
2400	41%	-3.89	1.19
2410	43%	-3.69	1.48
2420	43%	-3.62	1.51
2430	45%	-3.44	1.41
2440	45%	-3.44	1.46
2450	47%	-3.28	1.75
2460	49%	-3.12	2.19
2470	48%	-3.17	2.38
2480	49%	-3.07	2.55

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3.Passive pattern (free space)



3. Active test data

1. TRP&TIS

free space

Channel CH	TRP (dBm)	TIS (dBm)
0	6.27	-91.83
39	6.55	-92.39
78	6.34	-92.74

Confidentiality requirements

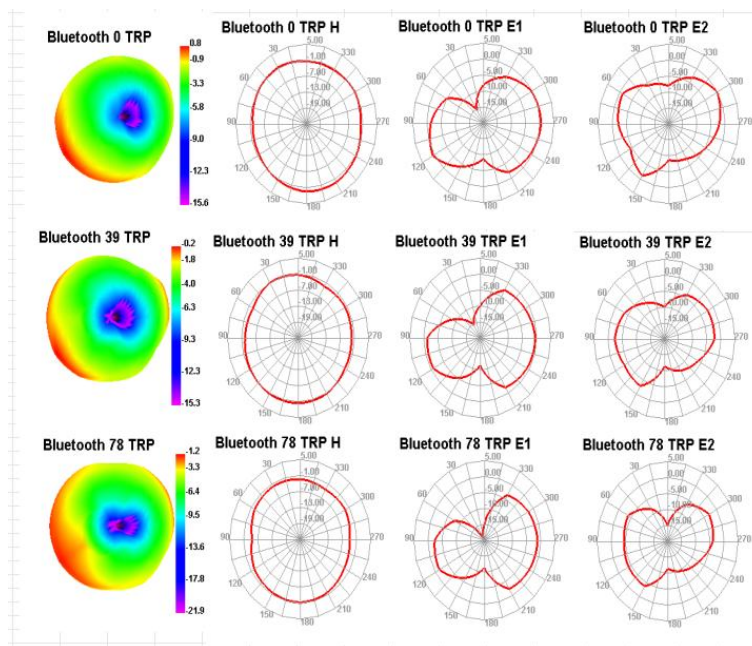
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Head and ears

Channel CH	TRP (dBm)	TIS (dBm)
0	4.17	-88.45
39	4.31	-88.63
78	4.54	-87.29

2. directional diagram

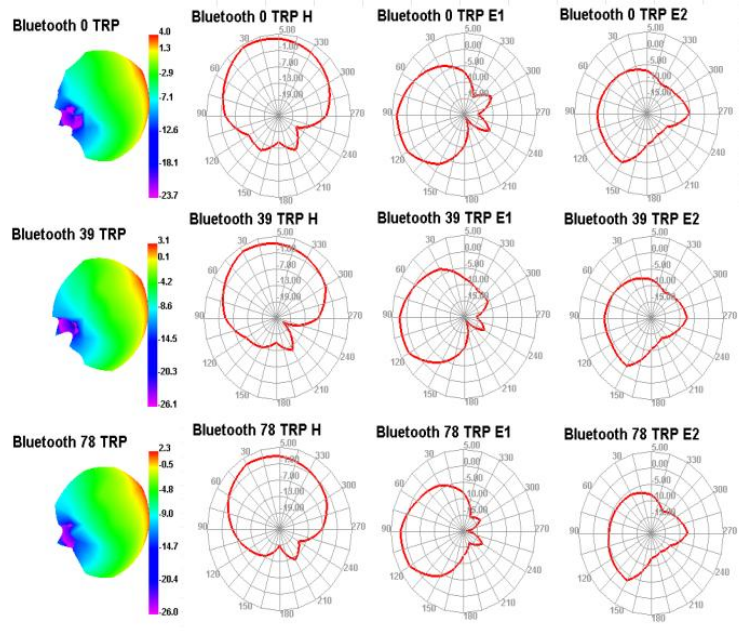
free space



Head and ears

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