Antenna Testing Report

Project Name：2010 RX

Report version：Jan. 09th, 2024 A0

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Record

Version	Report date	Remark
A0	2024.01.09	V0 sample test report
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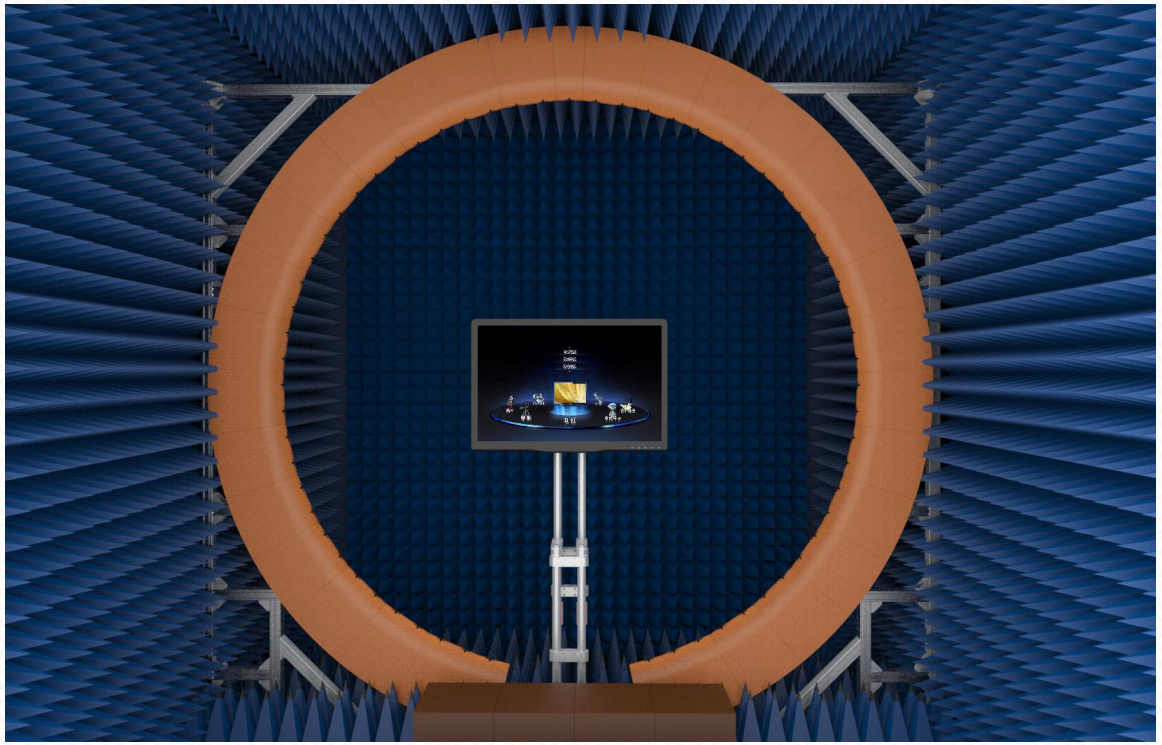
Contents

项目概况

Prototype status	Debugging machine	项目样机图：
Device type	Board computer	
Number of antennas	1PCS	
Frequency band	WIFI: 2.4GHZ	
Structural style	FPC+Cable	
Environment adjustment	No change	
Matching modification	No changed	
Prototype status	Debugging machine	
Device type	Board computer	

Equipment List



The industry's top 64 sensors OTA chamber

Frequency range: 400MHz-11GHz

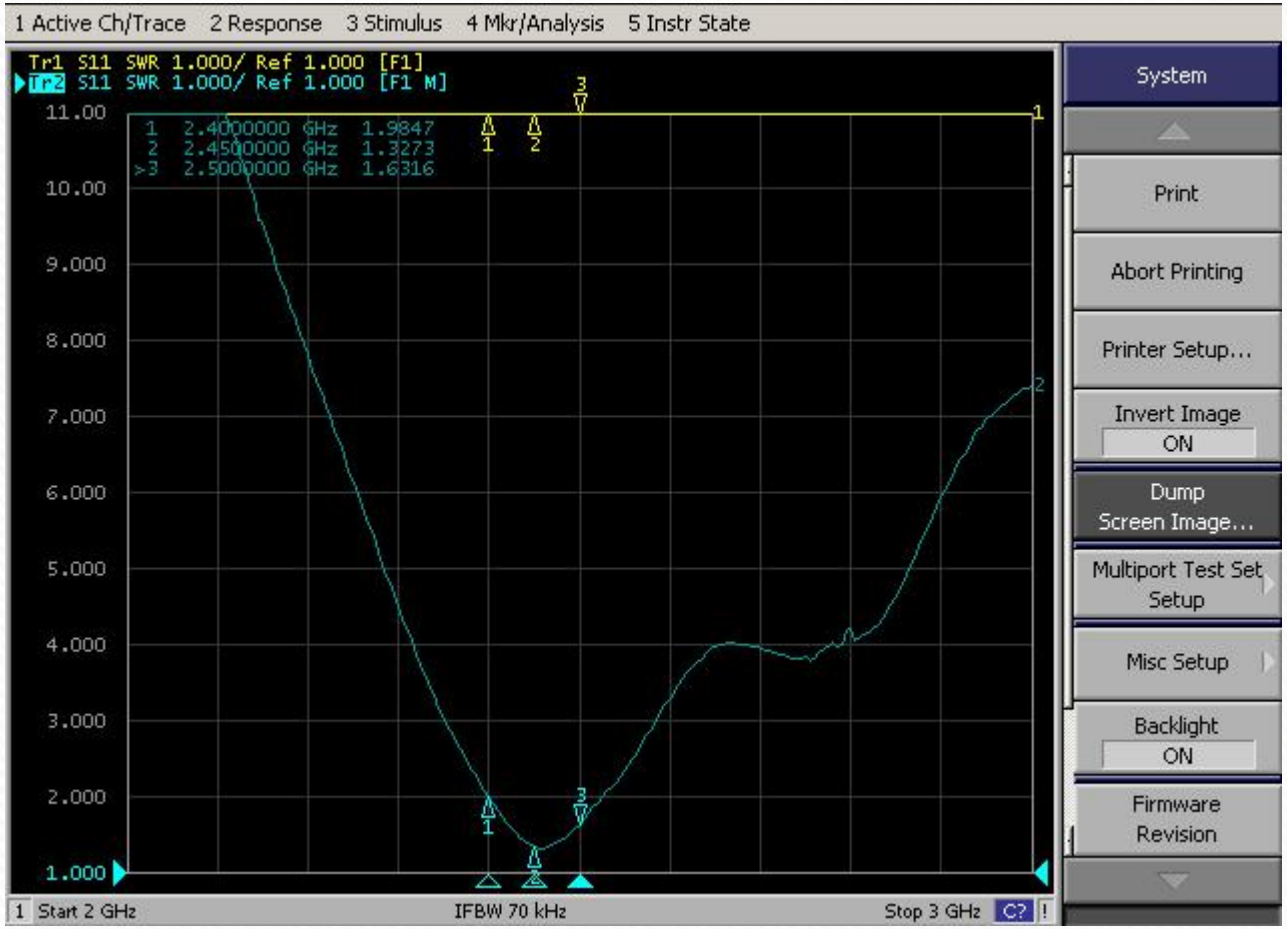
Device Llimitation: 2M

Load-bearing limitation:100KG

Equipments Items	Total Quantity	Quantity for Shanghai R&D	Quantity for Shenzhen R&D	Quantity for ChongQing R&D
OTA chamber	10	4	5	1
5G Tester（SP9500-CTS）	3	1	1	1
R&S Tester（high configuration CMW500）	6	3	2	1
Japan Anritsu Tester（Dual Channel 8820）	4	2	2	--
NB-IoT Tester (SP8315)	3	1	1	1
Agilent Tester（8960）	9	4	4	--
Agilent Network Analyzer（E5062A）	7	3	3	1
Agilent Network Analyzer（E5071C 8.5GHZ ）	11	5	5	1
Agilent Network Analyzer（E5071B 8.5GHZ ）	7	3	3	1
R&S Network Analyzer（ZND）	9	4	4	1
R&S Network Analyzer（ZVB）	3	1	1	1
OTA head hand / ear hand / arm hand	5	2	2	1
GPS/WIFI active test equipment	5	2	2	1

Passive parameters

WIFI antenna S11



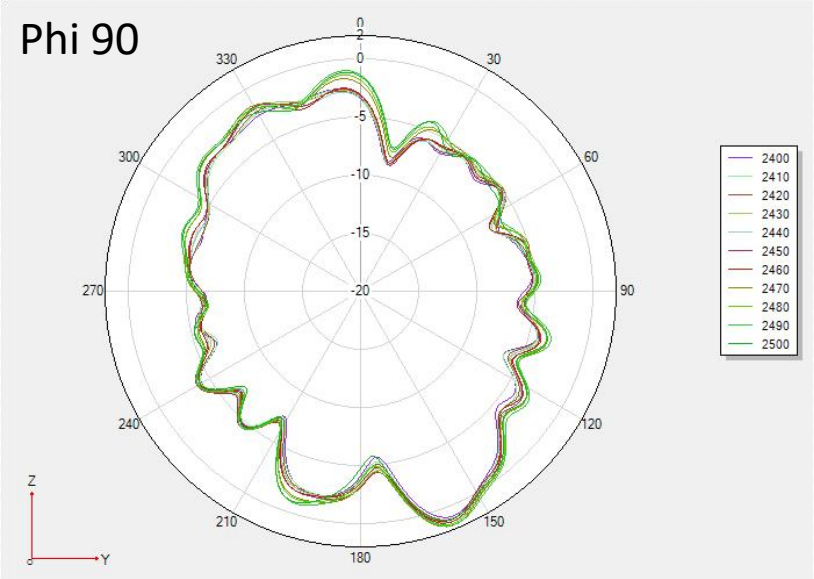
Passive test data

Passive test data：

Frequency/Mhz	MaxGain/dBi	Efficiency/%
2400	2.77	52.76
2410	2.76	52.46
2420	2.97	54.36
2430	3.24	55.92
2440	3.25	56.45
2450	3.39	57.42
2460	3.42	57.1
2470	3.96	60.58

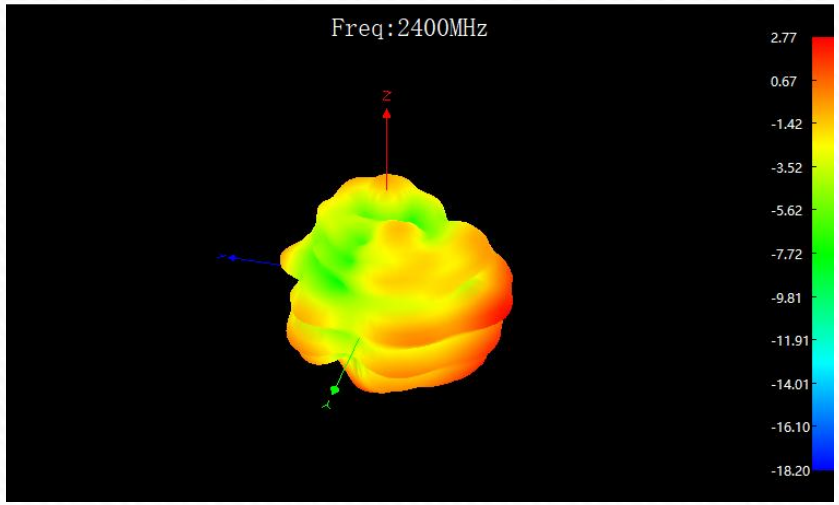
Passive test data

2D Etotal



Passive test data

3D Etotal



Active testing data

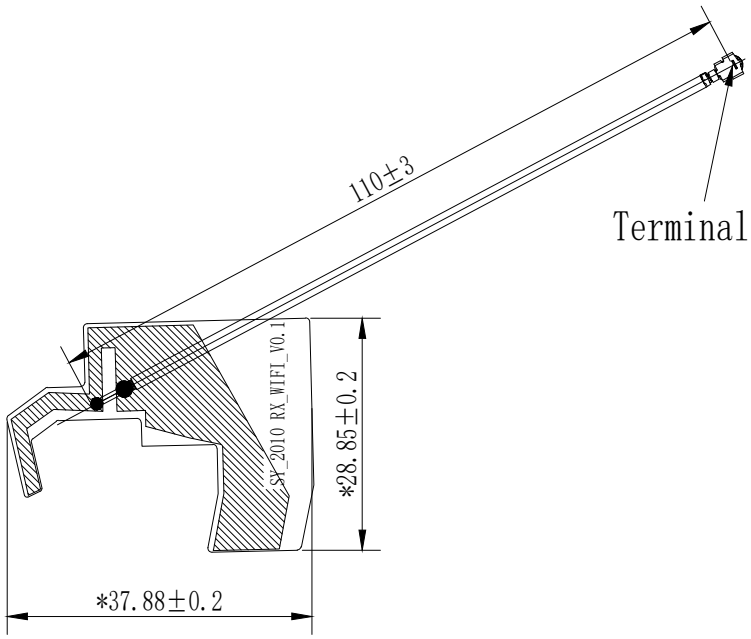
Item	Measurement	Band	Channel	Total
1	TRP	WIFI_B (11M)	1	13.54
2	TRP	WIFI_B (11M)	6	13.62
3	TRP	WIFI_B (11M)	11	13.25
4	TIS(EIRP)	WIFI_B (11M)	11	-88.31

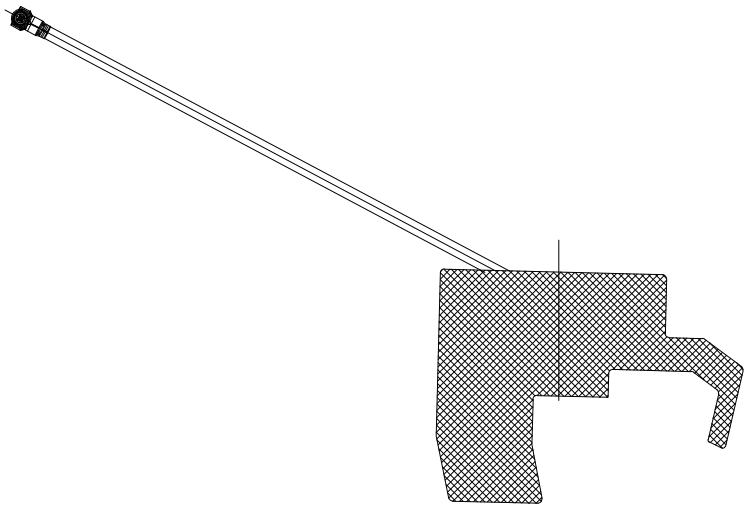
Summary

1. This data testing environment is for customer supplied whole machine testing ;

2. The test sample is an FPCB sample .

版 本	修 改 内 容	修改人	日期





正面

OSP area

Line area

Release paper area

Technical requirement

1. Shipping packaging requirements: (single PCS packaging)
2. Copper moor surface with black ink, silk screen white;
3. The ink should be uniform;
4. The size with "*" symbol is the key size;
5. Back glue with 3M 467MP;
6. The base material is PI one-half material;
7. Goldfinger OSP, welding coaxial line;
8. The unpoured fillet Angle is 0.2, and the process edge is 0.2mm;
9. No tolerance is specified according to the general tolerance table;
10. Products comply with RoHS requirements.

Number	Name	The specification is clear	Colour	Dosage	
3	Terminal	First generation terminals	Gold	1	
2	CABLE	φ1.13MM L=110MM	BLACK	1	
1	FPC		BLACK	1	

TOLERANCE X.X ±0.20 .XX ±0.10 .XXX±0.05 ANGULAR ∠ ±0.5°	PART NAME: WIFI (2010 RX)	DATE:	2023.04.17
	PART NO: SZ23179IB77	DRAWN:	XU
	MATERIAL: FPC + CABLE	CHECKED:	CH
	FINISHING:	APPROVED:	
UNIT: mm	COLOUR:	SCALE: 1:1	REV: T:A

Thank You

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