

样品承认书

Confirmation of products

客户名称 Customer	深圳市睿联技术股份有限公司				
项目名称 Project Name	C11	版本 Version	A. 2	日期 Date	2024-04-13
项目料号 Project NO.	03. 10. 03. 003	客户料号 Customer NO.	54. 07. 001. 0131		
频段 Frequency Range	2400~2500MHz 5100~5800MHz	备注 Notes	WIFI		
设计 Designed By					
审核 Approved By					
客户确认 Clients' Approval					

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1、 Specification

This report mainly provides the testing conditions of various electric and structural performance parameters for cell phone antenna ----C11 Picture 1 shows the antenna designed by LR.



2、 VSWR Testing

2.1 Testing connection

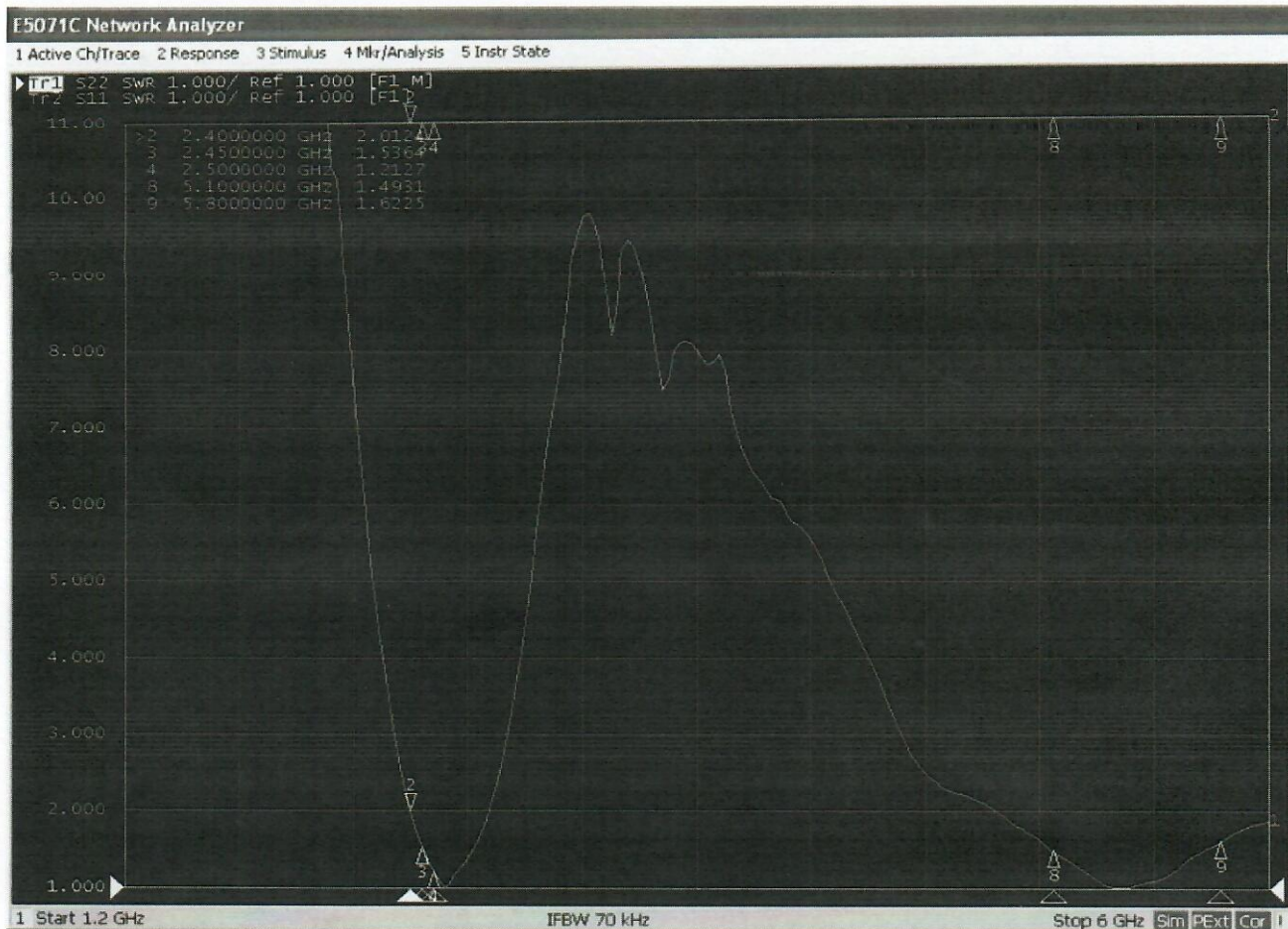
The **Return Loss** testing devices are connected in sequence: Agilent5071C Network Analyzer →Testing Cable → Customer-providing Devices.

2.2 VSWR

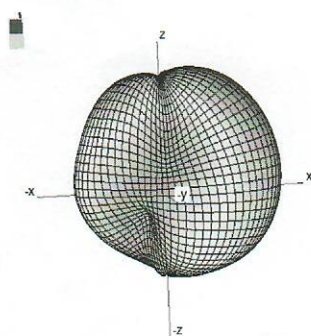
The following table expresses the VSWR value of antenna's two edges of its frequency range. With regard to the relevant diagram of VSWR

C11 WIFI VSWR					
Frequency (MHz)	2400	2450	2500	5100	5800
VSWR	2.01	1.53	1.21	1.49	1.62

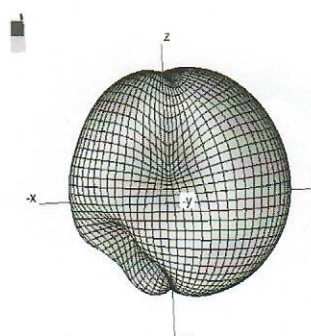
2.3 Testing data



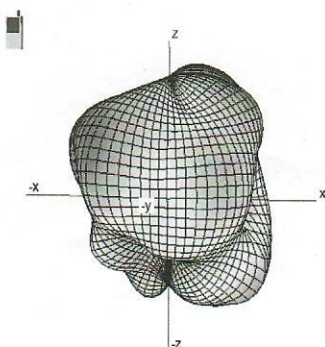
2.4+5.8G WIFI antenna VSWR



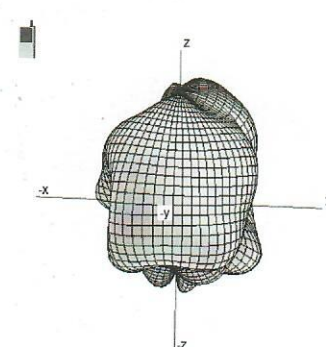
2400MHz



2500MHz

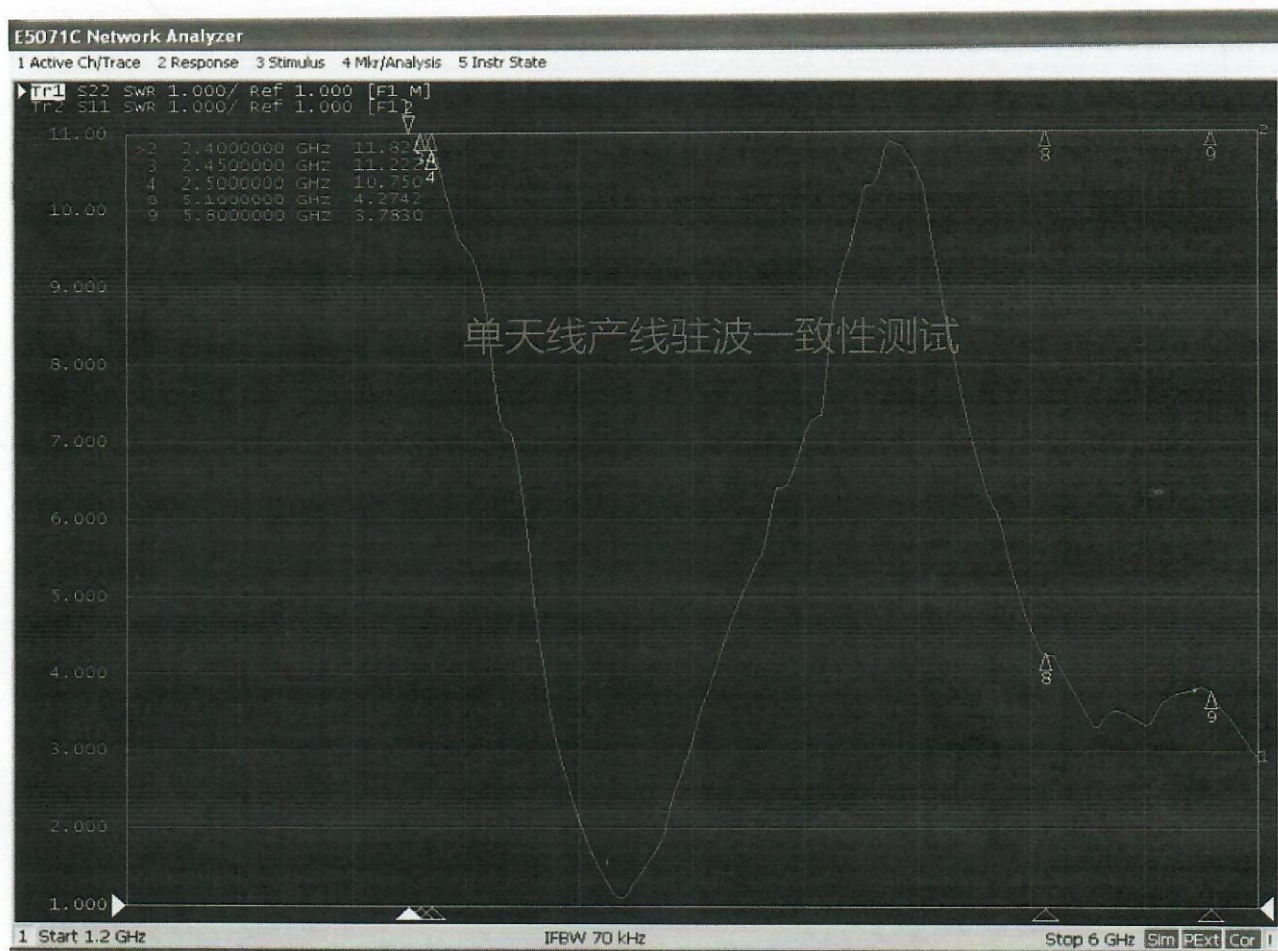


5100MHz



5800MHz

2.4 Single antenna test VSWR



3、 Power、 Sensitivity Testing

3.1 Testing field

LR Microwave Anechoic Chamber : testing frequency ranges from 400MHz to 6GHz and the 40cm diameter spherical quiet zone, the chamber provides less than -90dB reflectivity from 400MHz—6GHz.

3.2 Testing results

The following table indicates the testing results related to Power and Sensitivity in Microwave Anechoic Chamber, concerning the relative diagram.

3.3 Active testing.

C11 Antenna efficiency

Freq (MHz)	Gain	Efficiency (%)	Freq (MHz)	Gain	Efficiency (%)
2400	2.6	49.02	5360	2.1	61.19
2410	2.8	50.41	5380	2.0	61.34
2420	2.9	52.24	5400	1.9	58.72
2430	3.1	53.07	5420	2.0	61.69
2440	3.1	54.53	5440	2.2	61.83
2450	3.2	54.86	5460	2.2	61.56
2460	3.2	57.03	5480	2.3	61.66
2470	3.2	59.09	5500	2.2	58.65

2480	3.3	61.08	5520	2.2	57.08
2490	3.3	62.00	5540	2.6	61.68
2500	3.4	62.54	5560	2.7	61.61
5100	1.7	59.87	5580	2.8	63.60
5120	2.0	60.14	5600	2.5	60.78
5140	2.0	57.82	5620	2.7	60.01
5160	2.4	61.94	5640	2.7	61.36
5180	2.0	56.57	5660	2.7	59.94
5200	2.1	58.17	5680	2.5	60.89
5220	2.5	62.74	5700	2.7	62.02
5240	2.3	60.11	5720	2.3	62.71
5260	2.3	58.62	5740	2.1	57.36
5280	2.6	61.13	5760	2.3	61.50
5300	2.2	58.64	5780	2.5	62.32
5320	2.0	57.16	5800	2.4	62.72
5340	2.0	59.24			

C11 Active data

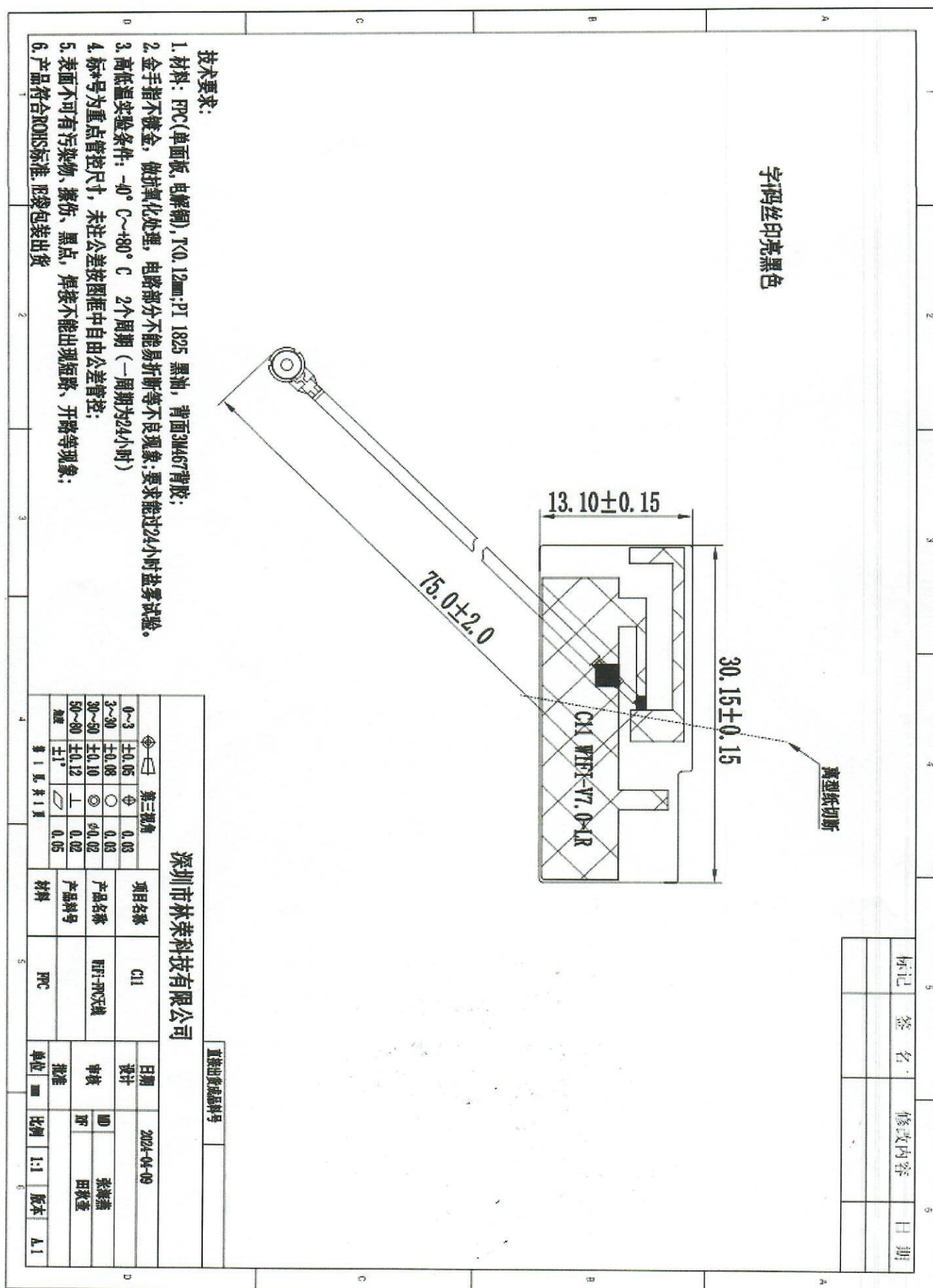
	chNO	TRP	TIS
11b-11M	1	14.63	-82.41
	6	14.97	
	11	15.21	-81.22
11g-54M	1	13.52	
	6	13.23	
	11	12.99	-72.85
11n-65M	1	14.59	
	6	14.83	
	11	14.94	-68.83
11a-54M	36	13.17	-72.10
	56	13.85	
	149	14.04	-72.85
	157	13.65	
	161	13.71	-71.48

4. Environmental treatment

Antenna mounting diagram



5、Mechanical Dimension Drawing



6. Mechanical Dimension Testing report

全尺寸测量报告

[illegible]

备注：除了上述标注的域与内容外，还输入的内容：

1. DIMENSION, TOL, TOL, SAME, SAME, SAME

2. 注意14描述的内容输入时，请：

a. 在STANDARDISED公差使用百分上比)中无公差(PRECESSION)0.00, 填：

(1) 检查输入数据是否输入错误；(2) 测量数据是否操作有误差或是仪器测量不准确；(3) 测量时间是否不宜宜；(4) 填错了(1) (2) (3) 9, 仍然)100, 请设计师对每个尺寸的后面作出选择即从"Re measure, Accept, Re tool, Accept Variance"中选一, 若是选Accept with variance, 必须完成后面的dimension, "TOL, Tol"；

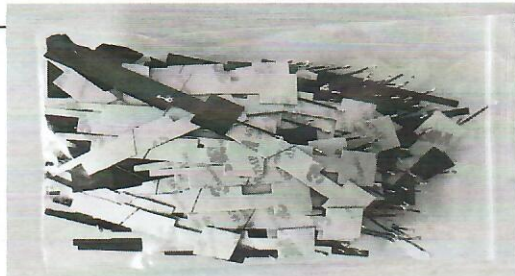
b. DIMENSION中的即尺寸前"老"中的DIM必须填写前面上的"数", 同时注意, 在作体的尺寸的编号与尺寸测量报告中的尺寸的编号必须是相同的, 且C尺寸必须使用符号标注, 此标注号要表示的意也是指该尺寸为基准管控尺寸, 要做OK!

c. 测量工具代码Measure No.: A=Callipers (0.00) B=micrometer (0.000) C=Pin Gauge (0.000) D=High Gauge (0.000) E=CHH (0.000) F=Plug Gauge (0.00) G=R Gauge (0.0) I=Deep Gauge (0.000)

7. Packaging standard

包装说明：具体包装数量以实物为准，图片只显示包装的方式，并非此项目实物。

Packaging Description: the specific packaging quantity is subject to the physical object. The picture only shows the way of packaging, not the physical object of the project



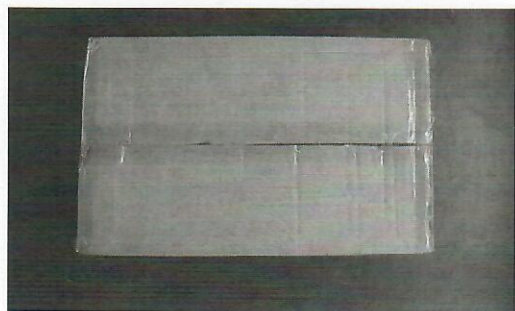
天线用 PE 袋包装

The top cover board, with PE film packaging



防潮防水 PET 袋封装，放于纸箱或胶筐内

Moistureproof waterproof PET bag packaging,
Put in the cartons



纸箱用胶带封口

Carton sealing with duct tape



包装箱整箱外观 ()

Cases appearance