



表单编号: CYX-FM-RD004-A

深圳创盈芯实业有限公司

Shenzhen Chuangyingxin technology co., Ltd

材料承认书

Material acceptance

厂 商:

Manufacturer

东莞市松汇实业有限公司

品 名:

Name of a part

HOA-WIF5G-1 天线 0.81 灰色线 4 代端子 L=130MM

料 号:

Part Number

1306000458

物 料 规 格

Material specification

WIFI+BT 天线 PCB +081 灰色线 L=130mm 4 代端子

制作 Fabrication	审核 Examine and verify	批准 Ratify

Tel:0755-23596969

Company web site:<http://www.cyxtech.com/>

深圳市龙华新区高峰社区科伦特低碳产业园 C 栋

Add: 5 / F, 1 Building, Xiazao Industrial Zone, Zhaohe Road, Fengfeng Community

Longhua New District, Shenzhen City



规格承认书

SPECIFICATION FOR APPROVAL

编号: 2024101602

File No. _____

版本: 1.0

Revision _____

客 户 创盈芯

CUSTOMER: _____

客 户 料 号 1306000458

CUSTOMER NO: _____

品 名 HOA-WIFI5G 天线0.81灰色线4代端子L=130MM

PART NAME: _____

供 方 料 号 **SL136P.300081.P01**

SUPPLIER NO: _____

送样日期 Date:

送样数量 Q'TY: PCS

客户确认 CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

供方确认 SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
sunny	ZouJie	LuoYi

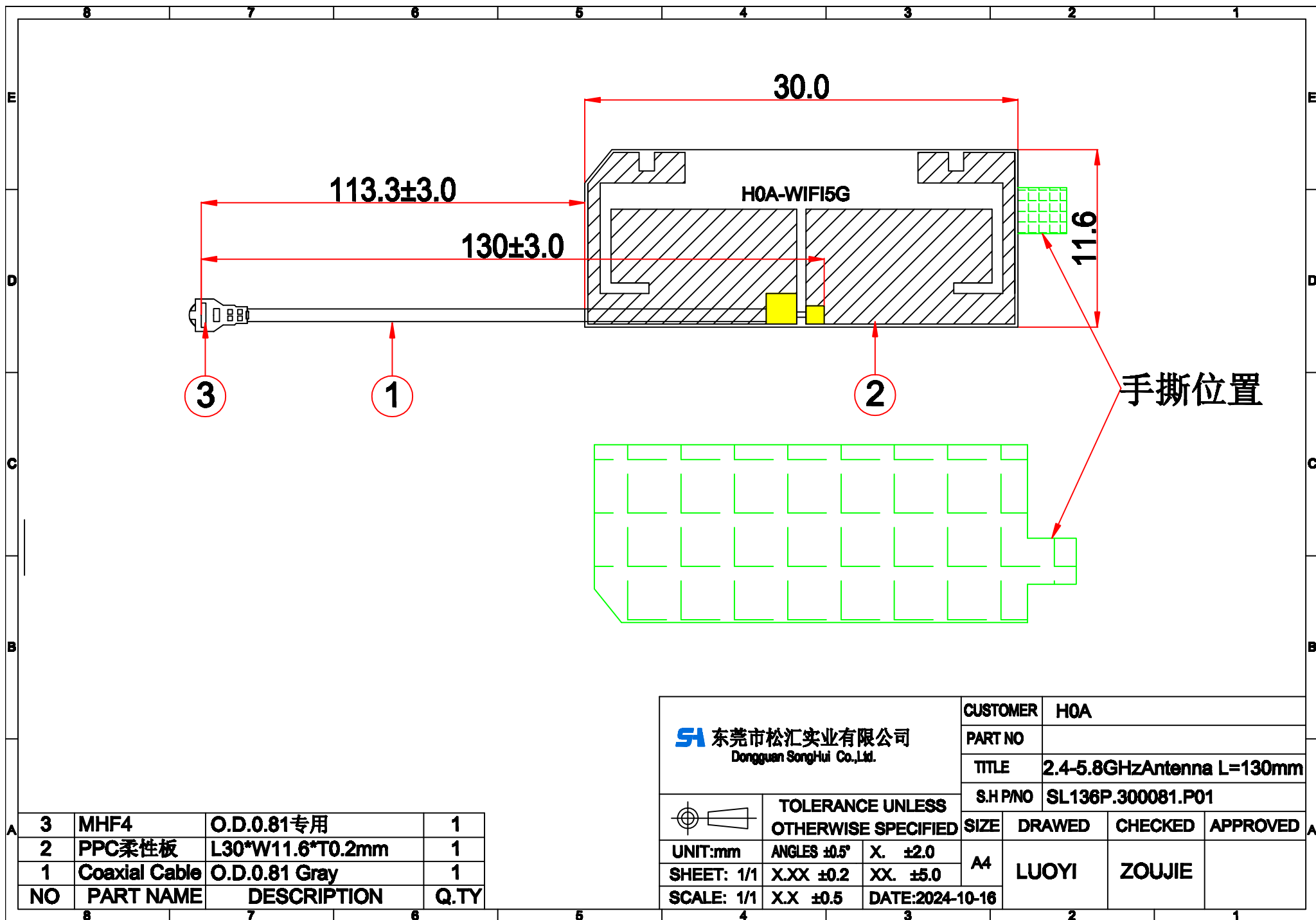
SH-RD-F04-A

add: 东莞市大朗镇巷尾村聚祥二路24号 电话: 0769-82226176 传真: 0769-82226175

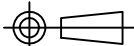


承认书项目表

NO.	内 容 (Contents)	页 数 (Number of Page)	页 码 (Page Code)
1	承认书封面	1	1
2	承认书项目表	1	2
3	工程成品图	1	3
4	电性测试报告	1	4
5	S参数测试	1	5
6	增益效率	1	6
7	TIS TRP	1	7
8	天线组装图	1	8
9		1	9
10	-	-	-
11	-	-	-
12	-	-	-



3	MHF4	O.D.0.81专用	1
2	PPC柔性板	L30*W11.6*T0.2mm	1
1	Coaxial Cable	O.D.0.81 Gray	1
NO	PART NAME	DESCRIPTION	Q.TY

 东莞市松汇实业有限公司 Dongguan SongHui Co.,Ltd.			CUSTOMER		H0A		
			PART NO				
			TITLE		2.4-5.8GHzAntenna L=130mm		
			S.H P/NO		SL136P.300081.P01		
		TOLERANCE UNLESS OTHERWISE SPECIFIED		SIZE	DRAWN	CHECKED	APPROVED
UNIT:mm		ANGLES $\pm 0.5^\circ$	X. ± 2.0	A4	LUOYI	ZOUJIE	
SHEET: 1/1		X.XX ± 0.2	XX. ± 5.0				
SCALE: 1/1		X.X ± 0.5	DATE:2024-10-16				



电 性 测 试 报 告

Test Reports

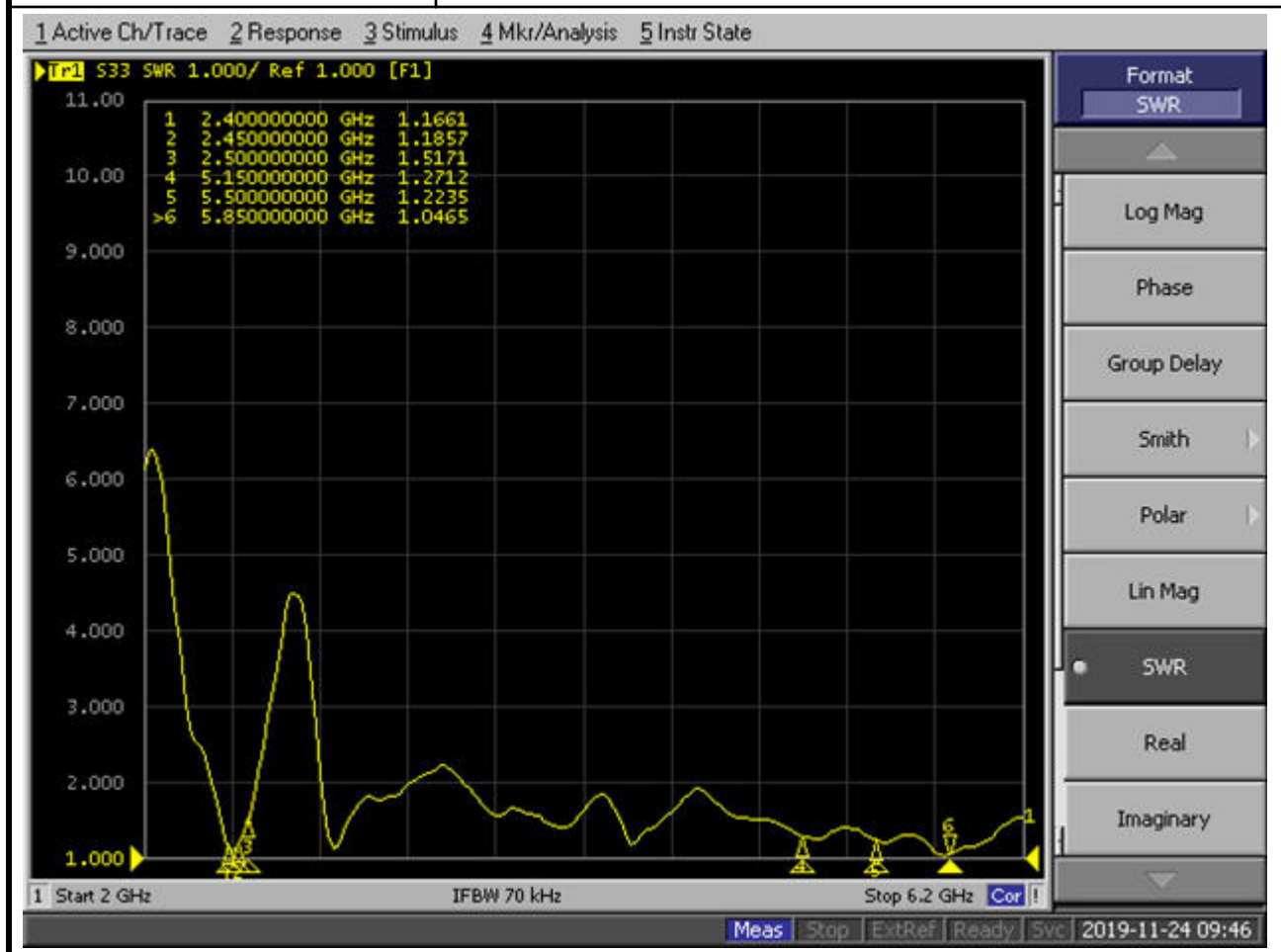
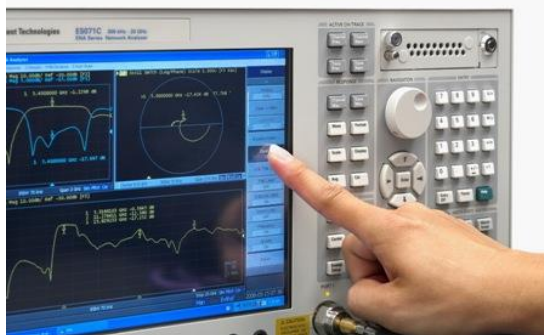
Electrical Properties	
Frequency	2400-2500/5150-5850MHz
Impedance	50 Ohm Nominal
V.S.W.R	1.92 : 1 Max
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	>2dBi
Efficiency	>48%
Polarization	Linear, Vertical
Admitted Power	1 W
Connector	MHF4
Physical Properties	
Antenna Material	PCB
Cable Type	O.D. 0.81mm // L=130mm
Operating Temp.	-10 ~ +60 °C
Storage Temp.	-10 ~ +70 °C
Cable Color	GRAY



S 参数测试

S Parameter Test

Agilent E5071C

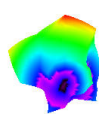


Gain, Efficiency

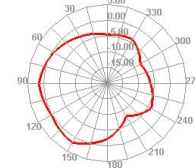
Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
5150	56.5	4.25	2400	49.09	3
5175	50.13	4.05	2410	50.39	3.05
5200	49.86	4.01	2420	50.67	2.95
5225	49.63	3.9	2430	52.94	3.03
5250	49.68	3.45	2440	55.26	3.11
5275	48.08	3.63	2450	56.9	3.5
5300	51.74	3.94	2460	54.27	3.34
5325	52.83	3.3	2470	51.52	3.16
5350	53.08	4.08	2480	50.6	2.66
5375	56.94	4.13	2490	49.13	2.12
5400	63.46	5.38	2500	49.11	1.73
5425	56.16	4.92			
5450	56.75	4.69			
5475	50.6	4.2			
5500	58.25	4.34			
5525	50.53	3.79			
5550	57.23	4.42			
5575	53.19	3.78			
5600	53.91	3.79			
5625	51.11	3.57			
5650	56.64	3.64			
5675	50.24	3.03			
5700	51.89	3.65			
5725	50.63	3.15			
5750	53.04	3.79			
5775	49.31	2.97			
5800	53.26	3.73			
5825	53.26	3.94			
5850	59.04	4.27			

1.9

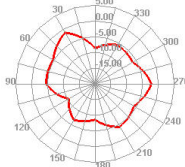
2400.000MHz



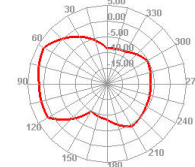
2400.000MHz H



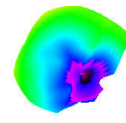
2400.000MHz E1



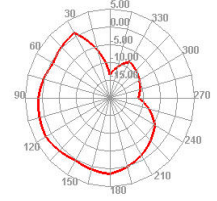
2400.000MHz E2



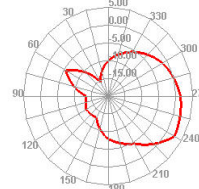
5150.000MHz



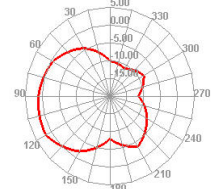
5150.000MHz H



5150.000MHz E1



5150.000MHz E2



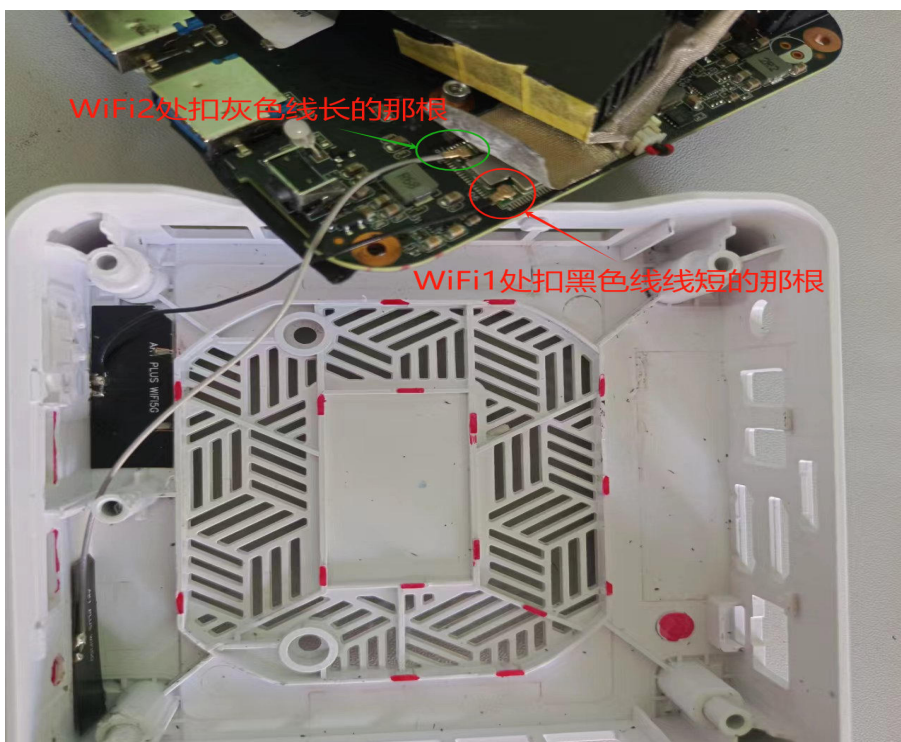
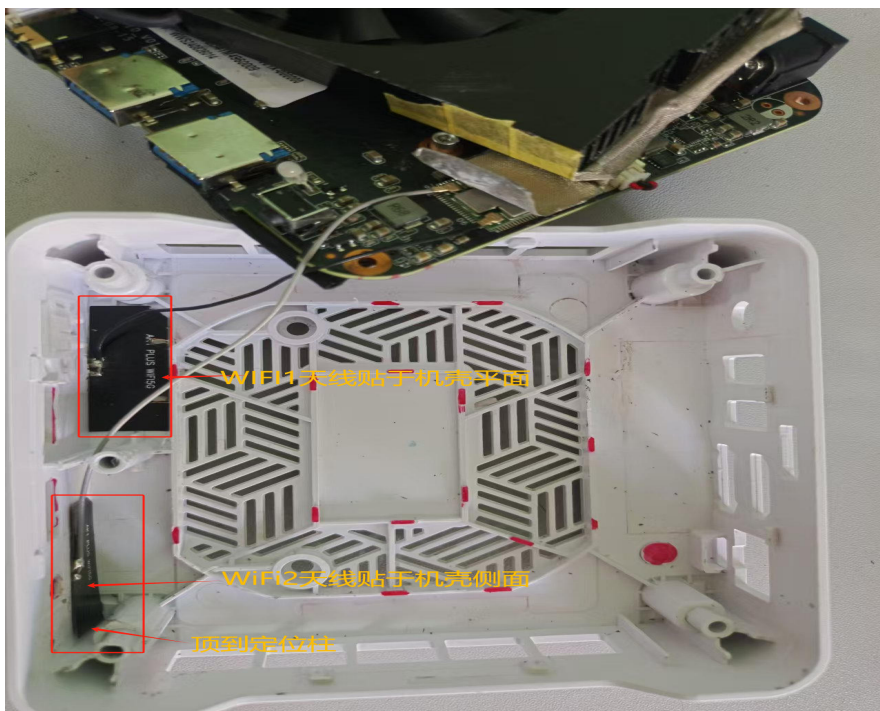
5150.00MHz - 58!



OTA测试报告

带宽 (MHz)	测试项	模式	速率(Mbps)	信道	频率(MHz)	测试值 (dbm)	测试项目
20	TRP	B	11	1	2412	16.6	HOA
				6	2437	17.6	
				11	2462	17.9	
		G	6	1	2412	13.2	
				6	2437	15.6	
				11	2462	14.5	
		N	MCS7	1	2412	12.5	
				6	2437	14.5	
				11	2462	13.6	
		A	6	36	5180	16.2	
				149	5745	17.5	
				165	5825	17.7	
	TIS	B	11	1	2412	-78	
				6	2437	-78	
				11	2462	-78	
		G	54	1	2412	-63	
				6	2437	-63	
				11	2462	-63	
		N	MCS7	1	2412	-58	
				6	2437	-58	
				11	2462	-58	
		A	54	1	2412	-71	
				6	2437	-71	
				11	2462	-71	

天线组装图



测试环境

	测试项目	设备
1. S参数 (S-parameter)	1. 回波损耗 (Return Loss) 2. 电压驻波比 (VSWR)	网络分析仪: Agilent E5071B ×2 HP 8753D PROTEK A338
2. 有源测试 (Active)	1. 发射功率 (TRP) 2. 接收灵敏度 (TIS) 3. 频率误差 4. 屏灭、屏亮	1. 暗室: 广平 7x4x3 m (单探头 3D) Chamber ETS 5x3x3 m (3D) Chamber 2. 综合测试仪: Agilent 8960 ×2 CMW500 ×3/CMU200
3. 无源测试 (Passive)	1. 天线增益 (Gain) 2. 天线效率 (Efficiency)	1. 暗室: 7x4x3 m (24探头 3D) Chamber ETS 5x3x3 m (3D) Chamber 2. 网络分析仪: Agilent E5071B

