

东莞市一佳电子通讯科技有限公司						
样品承认书 Sample approval letter						
产品描述 Part Description	物料名称: 6寸遥控器 Material Name:			品名料号: 204002689 Name of material,		
附件: Attachments	☒ 规格书 Spec		☒ 工程图 Drawing		☒ 样品 Sample	
	☒ CPK 报告 Cpk Report		☒ FAI全尺寸报告 FAI Report		☒ 可靠性测试报告 Reliability Report	
	☒ 材质证明书 Material Verification Sheet		☒ 包装方式 Packing Content		☒ 核心二级部件信息 (如BOM等) Core Component Information (e.g. BOM, etc.)	
	☒ 制程管制图 Process Control Chart		☒ 工艺流程图 Process flow chart			
	以上为必须提供项					
	☐ 电气性能测试报告 Electrical Performance Test Report		☐ 安规报告 Safety Regulation Report			
	以上为可选择性提供项, 电声器件必需提供电气性能测试报告, 电池需提供安规报告					
供应商确认签核 Supplier confirmation and signature	拟制:		审核:		批准:	
深圳市道通智能航空技术股份有限公司						
承认条件: Approval condition	所承认项目: Project:					
	产品名称: 6寸遥控器 Product Name:			物料料号: 204002689 Part No.		
	☐ 承认 Approved			☐ 拒绝承认 Reject		
	☐ 条件承认 Condition Approved		需满足条件: _____			
	☐ 临时承认 Temporary Approved		限量_____Pcs 采购			
客户确认签核: Customer confirmation and signature:	项目经理		硬件/DQE		品质经理	
	结构/ID		产品经理		采购	
分发部门: Distribute	☐ 供应商 ☐ 采购 ☐ 品质 ☐ 组装 ☐ 研发					

文件编号:

版本: V1.0

保存期限: 2年



承认书项目表

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RoHS
Compatible

CUSTOMER
PART NO

REV.

DESCRIPTION

DATE

A

首次发行

2022-05-23

B

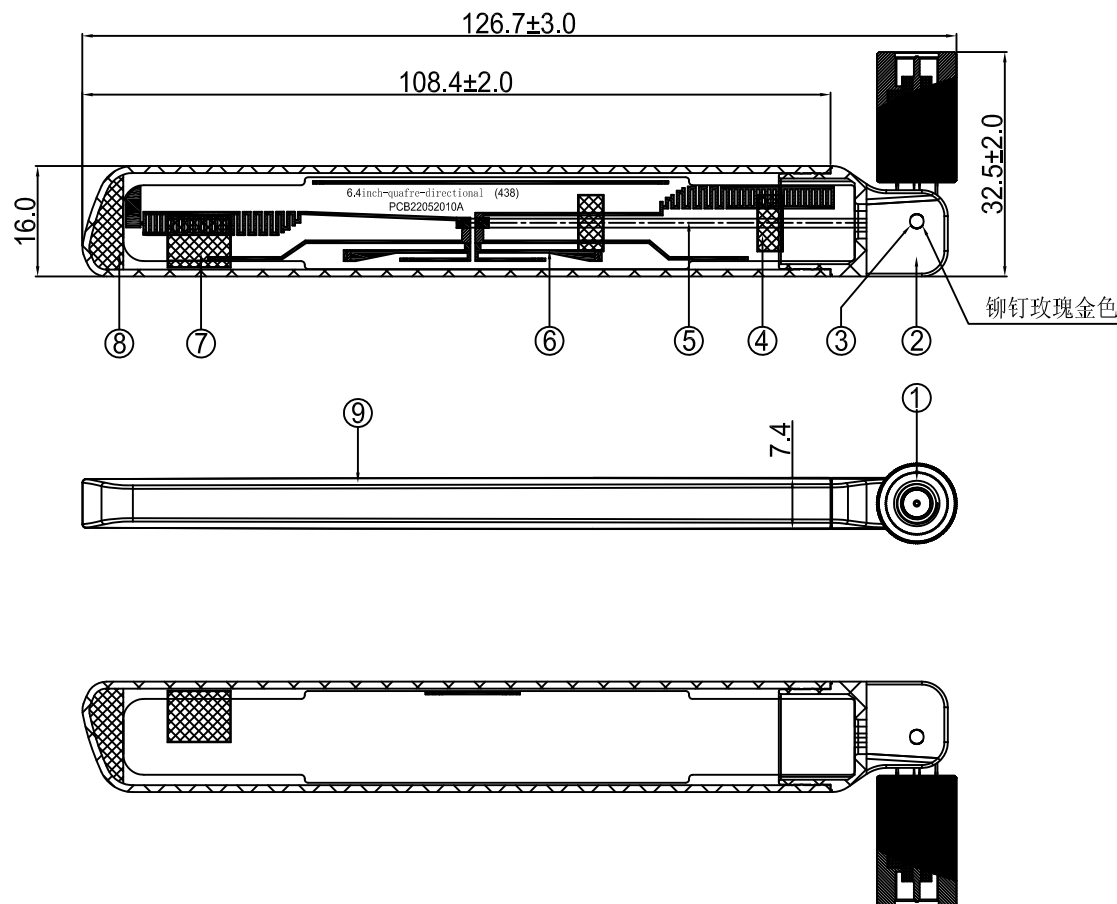
修改铆钉改为玫瑰金色

2022-11-21

C

完善规格书数据测试标准

2024-03-22



9	Antenna Cap	ABS ,Color:Black	PLA1014XA.B01	1
8	Paste+EVA (防水)	14.0*6.0*4.0*5.0MM	EVA10471A.P01	1
7	Paste+EVA	18.0*8.0*2.0MM	EVA10408A.P01	1
6	PCB	106.0*13.3*0.8MM	PCB1042XA.P01	1
5	Coaxial Cable	O.D.1.13 Black Low loss	COA1000XA.P02	1
4	Paste+EVA	8.0*3.0*2.0MM	EVA10408A.P01	2
3	Rivet		PIN1000XA.B01	2
2	Bottom Base	POM, Color:Black	PLA1003XA.B04	1
1	SMA Male	Cu	CON10244A.P01	1
NO	PART NAME	DESCRIPTION	PART NO.	Q.TY



东莞市一佳电子通讯科技有限公司
Dongguan Yijia Electronics Communication Technology Co.,Ltd. Tel :0769-85535057 Fax:0769-81664308

PART NAME: 900M/1.4G/2.4G/5.8G Antenna

PART NO.: YJI01.005.051.101A

DATE: 2024-03-22

APPROVED BY

CHECKED BY

DESIGNED BY

UNITS: mm

SCALE: 1/1

REVISION: B

殷涛

魏道发

陈兴易

X° ±3°

Tolerance

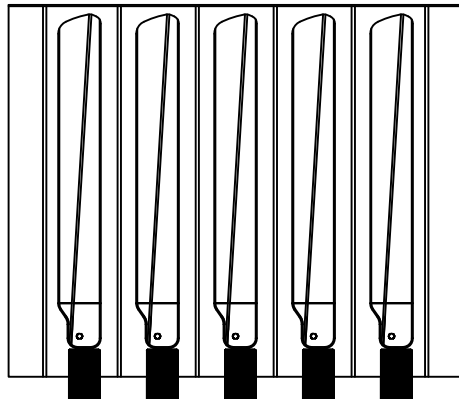
X.X ±0.50

X.XX±0.15

RoHS
Compatible

包装说明

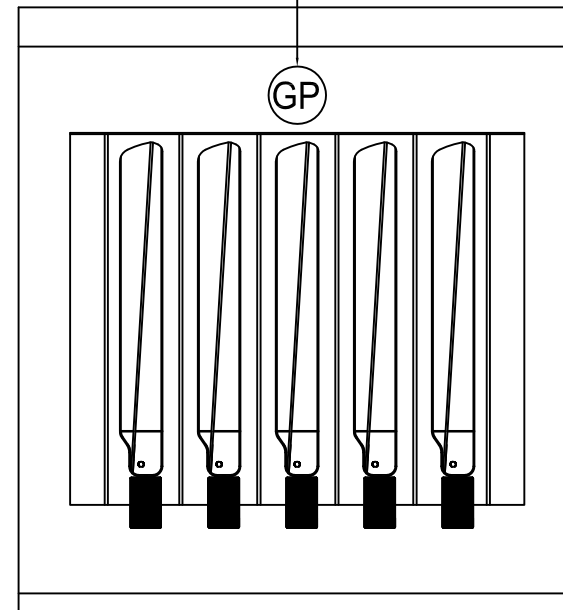
REV.	DESCRIPTION	DATE
△	首次发行	2024-03-20



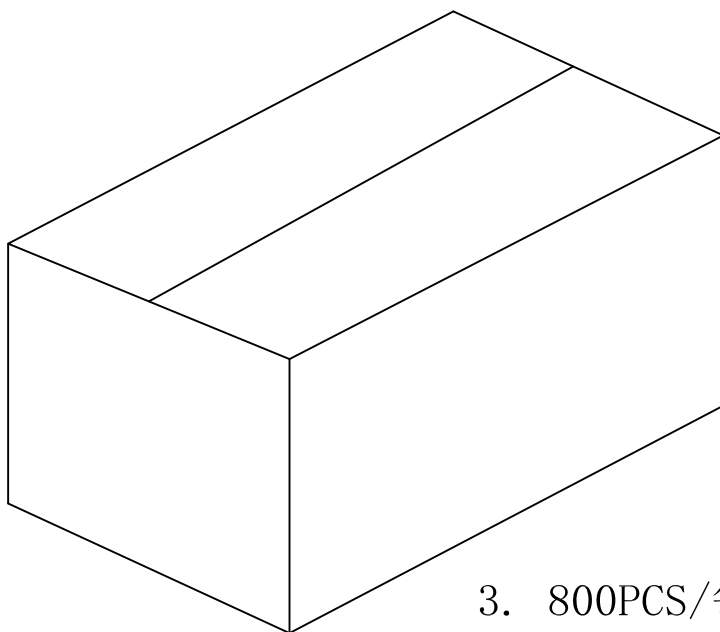
1. 5PCS/每排



GP标签



2. 50PCS/每包



3. 800PCS/每箱

 东莞市一佳电子通讯科技有限公司 Dongguan Yijia Electronics Communication Technology Co.,Ltd. Tel: 0769-82586086 Fax: 0769-82586086			
PART NAME: 900M/1.4G/2.4G/5.8G Antenna			
PART NO.: YJI01.005.051.101A			DATE: 2024-03-20
APPROVED BY	CHECKED BY	DESIGNED BY	
殷涛	魏道发	陈兴易	UNITS: mm
			SCALE: 1/1
			REVISION: A
			Tolerance X.X ±0.50 X.XX±0.15 X° ±3°



天线规格-ANT-L

Antenna Specification

Electrical Properties	
Frequency	860-928MHz 1440MHz 2.4-2.5GHz 5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	5.5 Max@860-928MHz 2.0 Max@1440MHz 3.0 Max@2.4-2.5GHz 2.5 Max@5.15-5.85GHz
Gain	2.0 dBi@900-928MHz 4.4 dBi@1440MHz 2.4 dBi@2.4-2.5GHz 3.5 dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	SMA Male
Cable Type	O.D.1.13mm低损耗
Cable Length	108mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

add: 东莞市长安镇沙头社区木鱼路59号元富工业区 Tel:0769-82586086 Fax:0769-82586086



天线规格-ANT-R

Antenna Specification

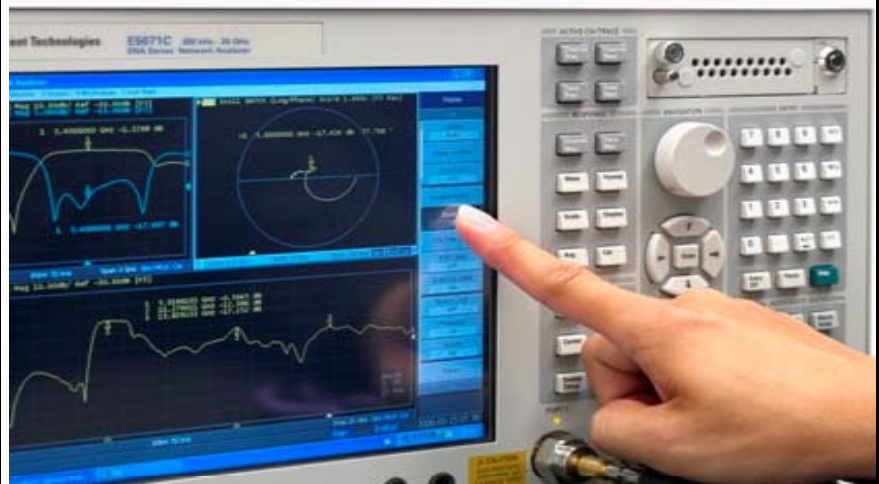
Electrical Properties	
Frequency	860-928MHz 1440MHz 2.4-2.5GHz 5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	5.0 Max@860-928MHz 2.0 Max@1440MHz 2.5 Max@2.4-2.5GHz 2.5 Max@5.15-5.85GHz
Gain	3.2 dBi@860-928MHz 3.1 dBi@1440MHz 2.3 dBi@2.4-2.5GHz 3.1 dBi@5.15-5.85GHz
Radiation	Omni-directional
Polarization	Linear
Physical Properties	
Connector	SMA Male
Cable Type	O.D.1.13mm低损耗
Cable Length	108mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

add: 东莞市长安镇沙头社区木鱼路59号元富工业区 Tel:0769-82586086 Fax:0769-82586086

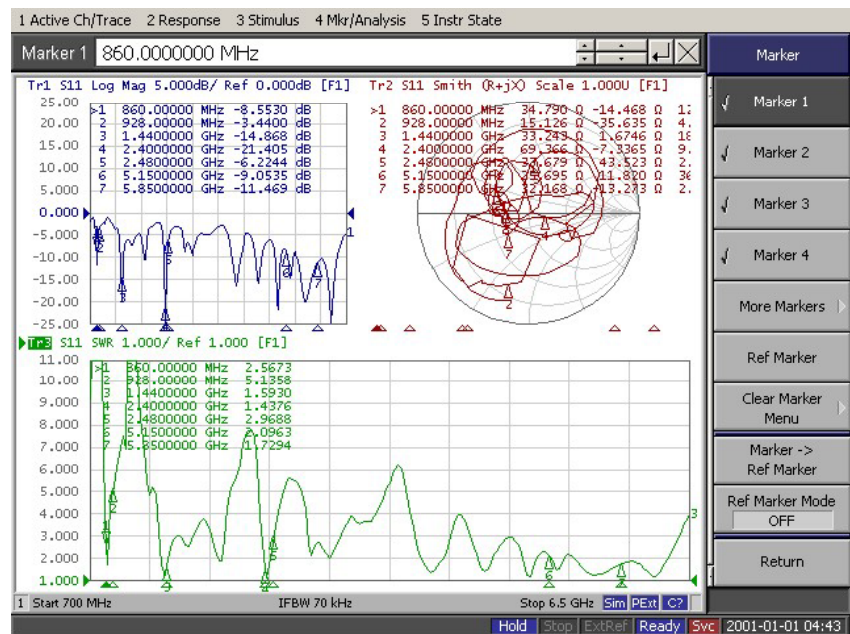


Antenna Performance Test

**Agilent
E5071B**

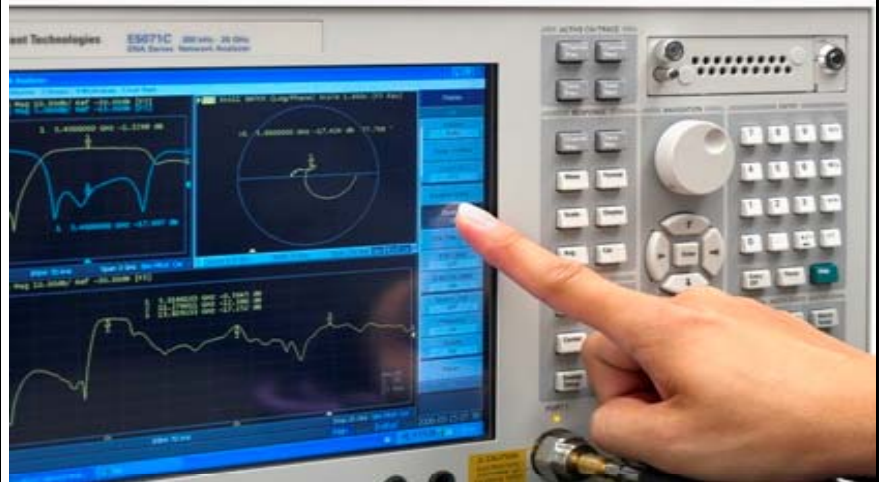


**S
Parameter
Test //
ANT-L
Antenna**

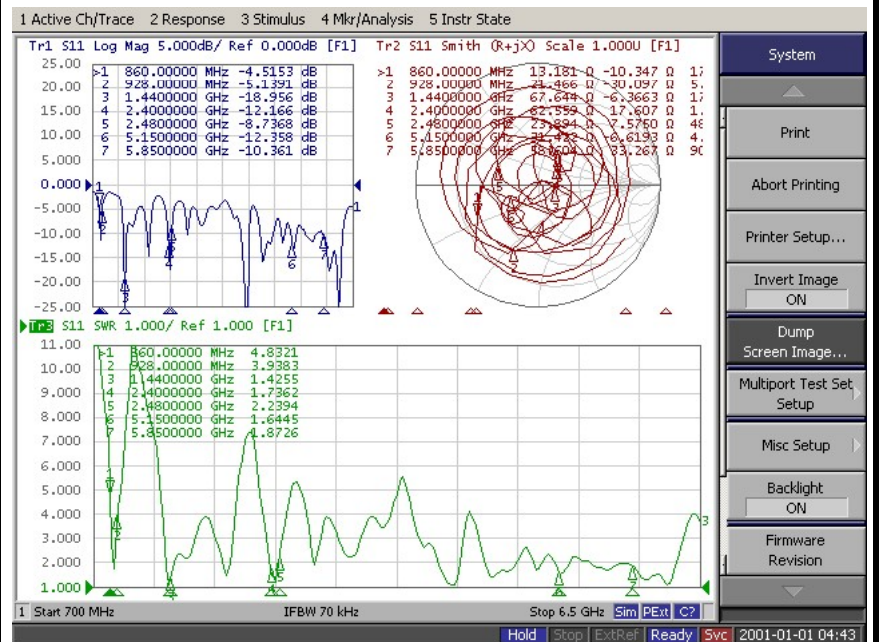




Agilent E5071B

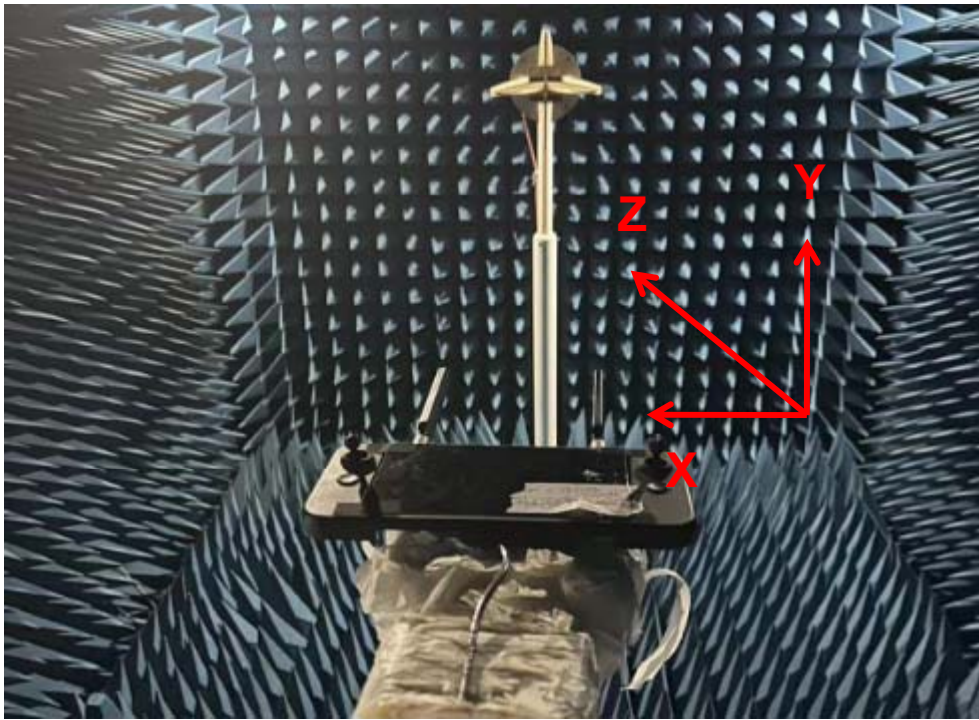


S Parameter Test // ANT-R Antenna





Antenna Passive Test





Passive Test For 920MHz Antenna (ANT-L)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
820	14.6	-8.4	0.1
830	22.4	-6.5	1.0
840	35.0	-4.6	1.1
850	50.0	-3.0	0.6
860	64.9	-1.9	1.8
870	71.1	-1.5	2.5
880	67.2	-1.7	2.2
890	58.7	-2.3	1.7
900	52.7	-2.8	2.0
910	40.5	-3.9	0.9
920	40.3	-4.0	0.7
930	36.4	-4.4	0.1
940	32.7	-4.9	-0.6
950	30.0	-5.2	-0.4
960	29.8	-5.3	0.0



Passive Test For 1440MHz Antenna (ANT-L)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1430	75.5	-1.2	4.4
1438	72.4	-1.4	4.1
1446	71.4	-1.5	3.9
1454	70.0	-1.6	3.4
1462	67.1	-1.7	3.3
1470	62.3	-2.1	3.3
1478	56.7	-2.5	3.2
1486	52.5	-2.8	3.1
1494	52.3	-2.8	3.3
1502	51.0	-2.9	3.3
1510	48.6	-3.1	3.2



Passive Test For WiFi 2.4G Antenna (ANT-L)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	48.1	-3.2	2.2
2410	51.7	-2.9	2.3
2420	52.4	-2.8	2.4
2430	49.8	-3.0	2.1
2440	46.8	-3.3	1.9
2450	46.4	-3.3	1.8
2460	44.5	-3.5	1.6
2470	43.6	-3.6	1.5
2480	40.9	-3.9	1.2
2490	39.7	-4.0	1.2
2500	40.6	-3.9	1.5



Passive Test For WiFi 5.8G Antenna (ANT-L)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	31.7	-5.0	1.2
5200	44.3	-3.5	3.4
5250	42.4	-3.7	3.5
5300	38.9	-4.1	2.1
5350	43.6	-3.6	1.3
5400	51.1	-2.9	1.9
5450	56.3	-2.5	2.2
5500	56.9	-2.5	2.4
5550	53.4	-2.7	2.1
5600	53.6	-2.7	2.0
5650	66.8	-1.8	3.1
5700	64.7	-1.9	3.5
5750	58.0	-2.4	3.2
5800	48.8	-3.1	2.8
5850	44.4	-3.5	2.3



Passive Test For 920MHz Antenna (ANT-R)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
820	9.1	-10.4	-6.3
830	9.8	-10.1	-5.8
840	10.3	-9.9	-5.6
850	11.3	-9.5	-5.7
860	15.8	-8.0	-4.6
870	28.1	-5.5	-2.0
880	49.4	-3.1	0.6
890	65.4	-1.9	2.5
900	70.6	-1.5	3.2
910	51.5	-2.9	1.9
920	46.6	-3.3	1.7
930	41.2	-3.9	1.2
940	36.9	-4.3	0.8
950	34.1	-4.7	0.2
960	33.0	-4.8	-0.1



Passive Test For 1440MHz Antenna (ANT-R)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1430	81.4	-0.9	3.1
1438	82.8	-0.8	3.0
1446	85.5	-0.7	3.1
1454	84.2	-0.8	2.8
1462	82.3	-0.9	2.9
1470	78.0	-1.1	2.9
1478	70.9	-1.5	2.6
1486	65.7	-1.8	2.4
1494	61.3	-2.1	2.2
1502	59.6	-2.3	2.3
1510	57.4	-2.4	2.3



Passive Test For WiFi 2.4G Antenna (ANT-R)			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	42.1	-3.8	1.1
2410	46.1	-3.4	1.5
2420	48.6	-3.1	1.8
2430	48.9	-3.1	1.7
2440	48.5	-3.1	1.8
2450	49.3	-3.1	2.2
2460	47.2	-3.3	2.3
2470	45.4	-3.4	2.2
2480	42.3	-3.7	2.0
2490	38.7	-4.1	1.7
2500	37.5	-4.3	1.6



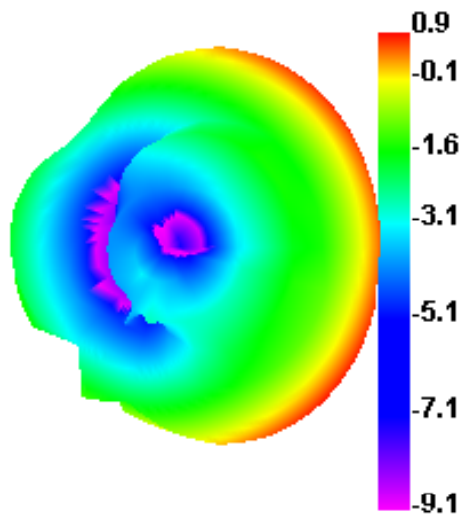
Passive Test For WiFi 5.8G Antenna (ANT-R)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	26.5	-5.8	-0.5
5200	37.8	-4.2	1.4
5250	39.8	-4.0	1.6
5300	38.0	-4.2	1.1
5350	43.3	-3.6	1.4
5400	49.2	-3.1	1.8
5450	53.0	-2.8	2.0
5500	54.1	-2.7	2.0
5550	53.2	-2.7	2.0
5600	53.7	-2.7	2.1
5650	66.0	-1.8	3.1
5700	60.8	-2.2	2.9
5750	52.8	-2.8	2.6
5800	45.7	-3.4	2.3
5850	46.0	-3.4	2.9

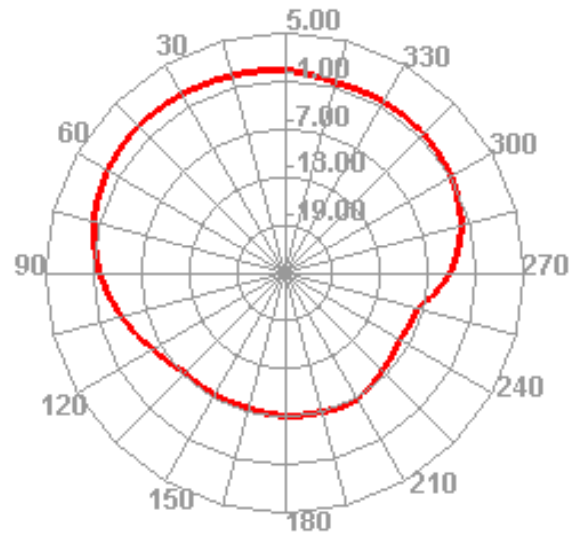


Radiation Pattern For 920MHz Antenna (ANT-L)

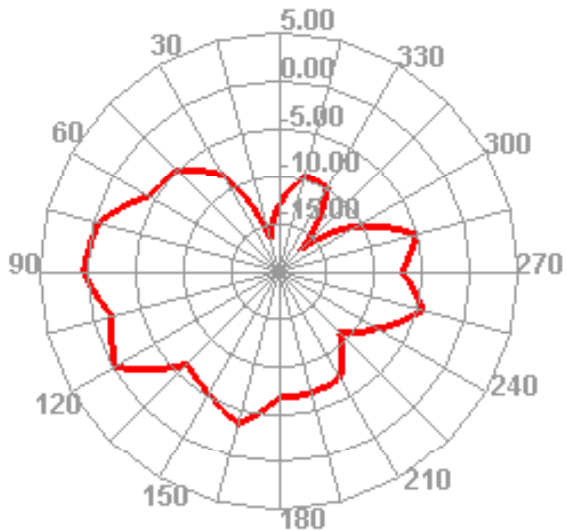
910.000MHz



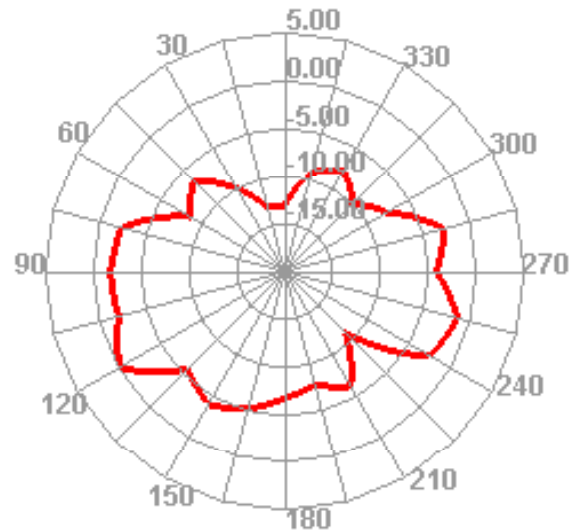
910.000MHz H



910.000MHz E1



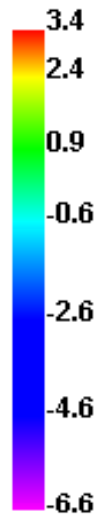
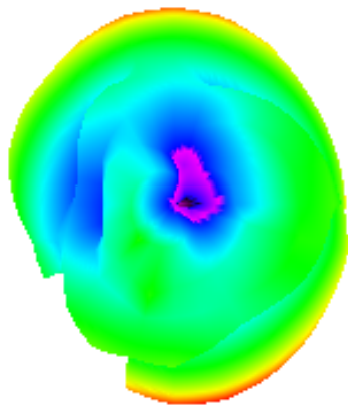
910.000MHz E2



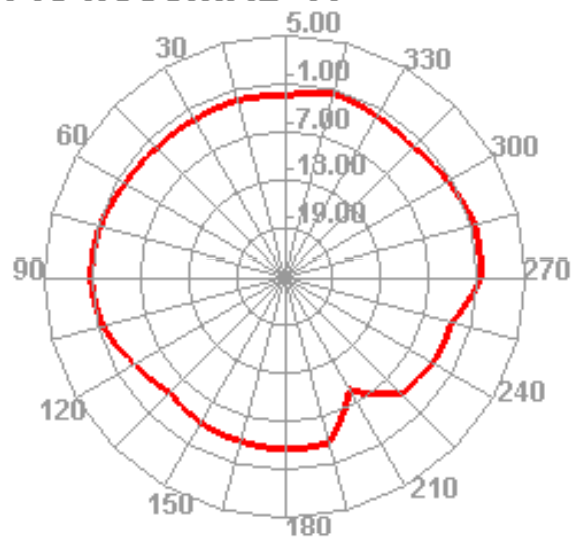


Radiation Pattern For 1440MHz Antenna (ANT-L)

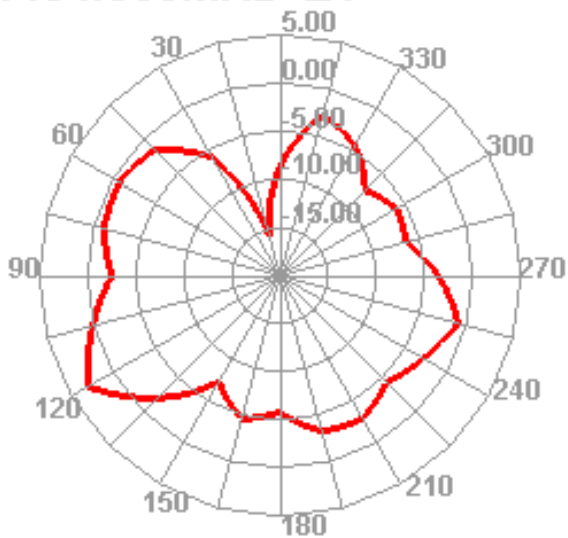
1454.000MHz



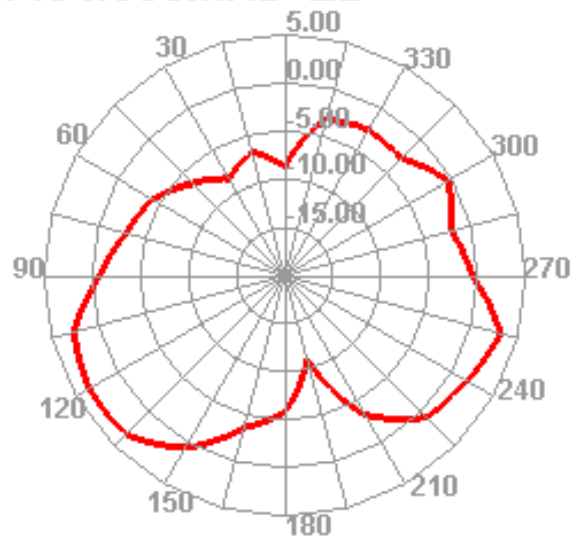
1454.000MHz H



1454.000MHz E1



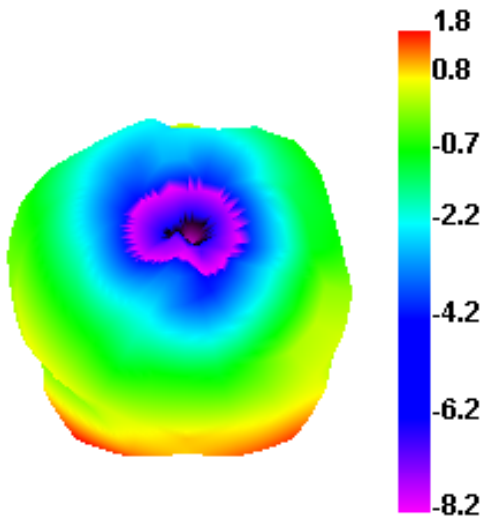
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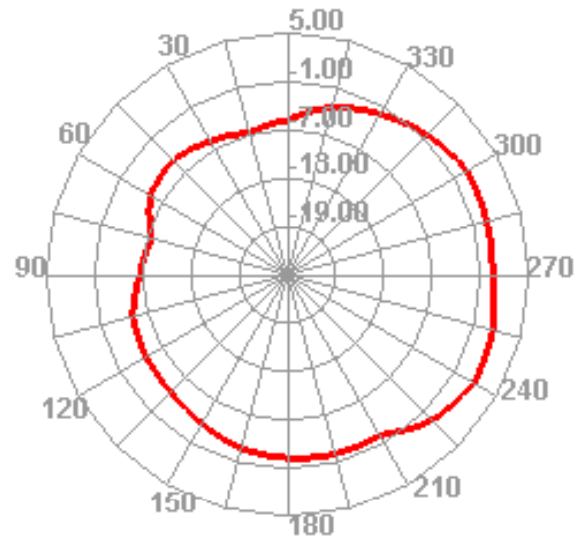


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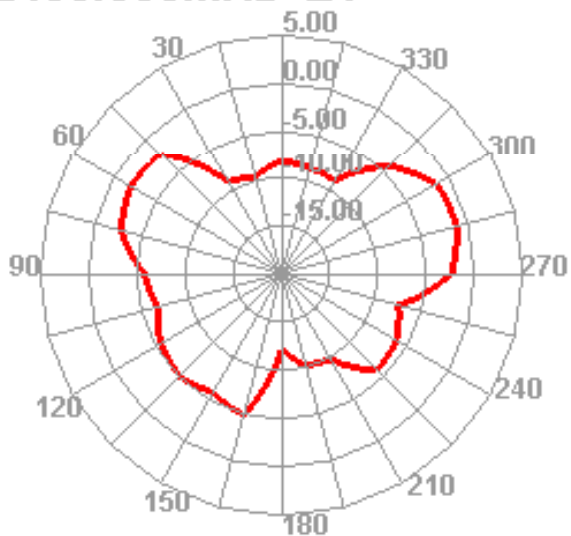
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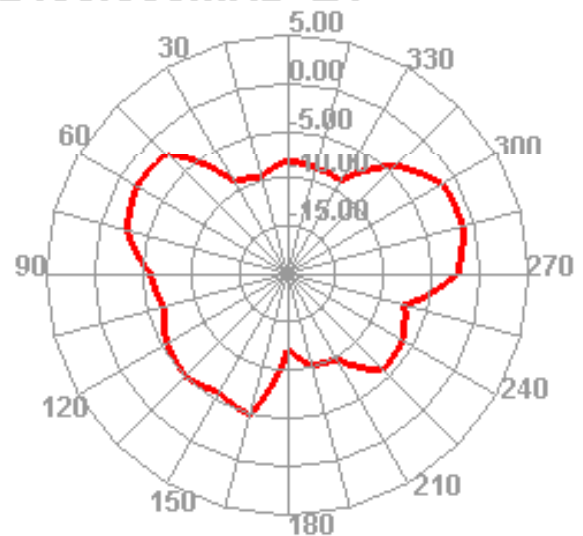
2450.000MHz H



2450.000MHz E1



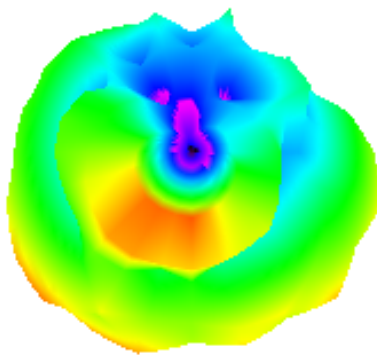
2450.000MHz E1



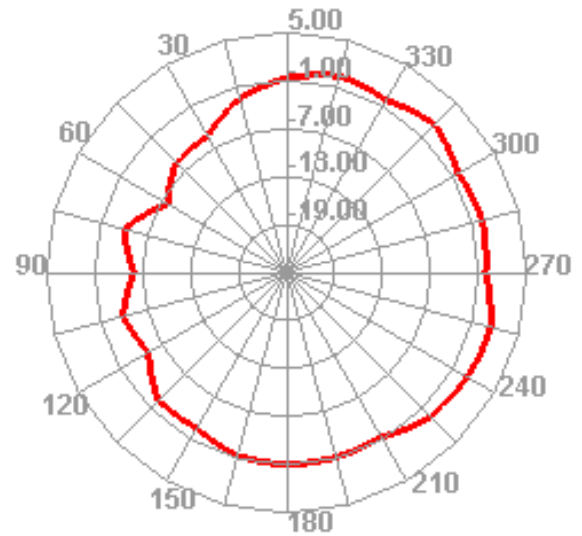


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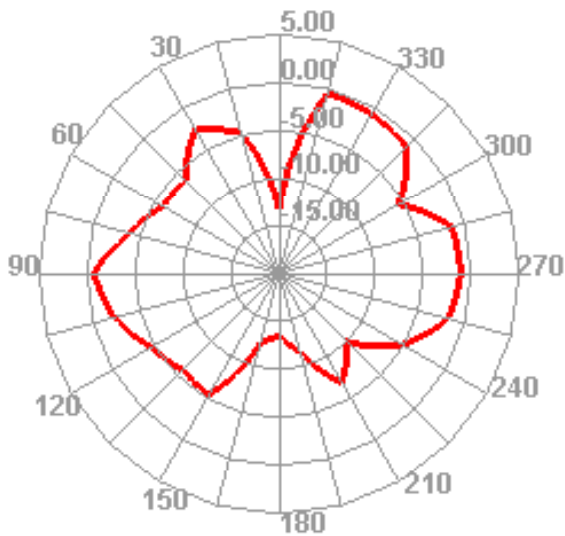
5500.000MHz



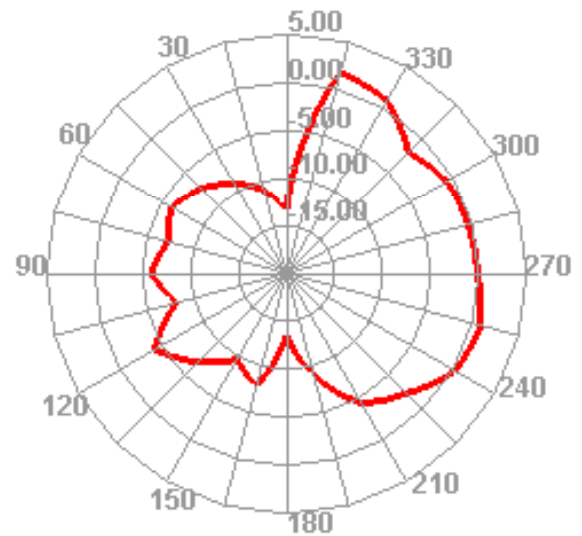
5500.000MHz H



5500.000MHz E1



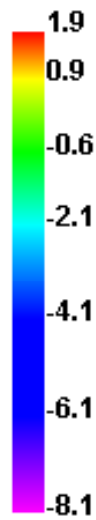
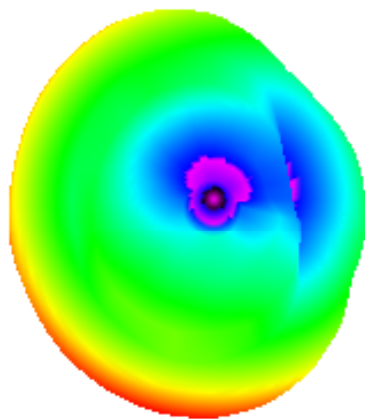
5500.000MHz E2



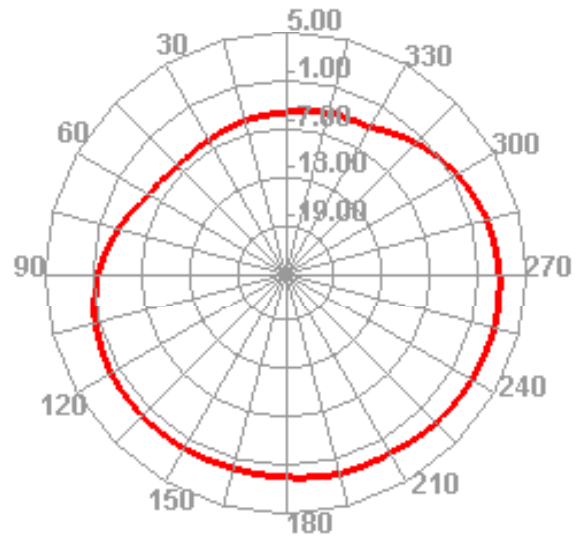


Radiation Pattern For 920MHz Antenna (ANT-R)

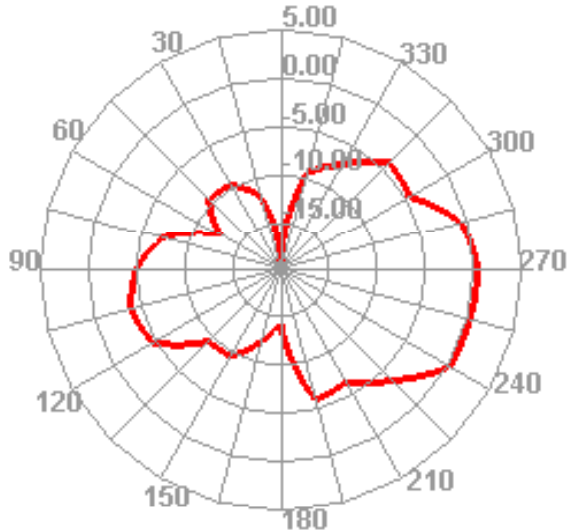
910.000MHz



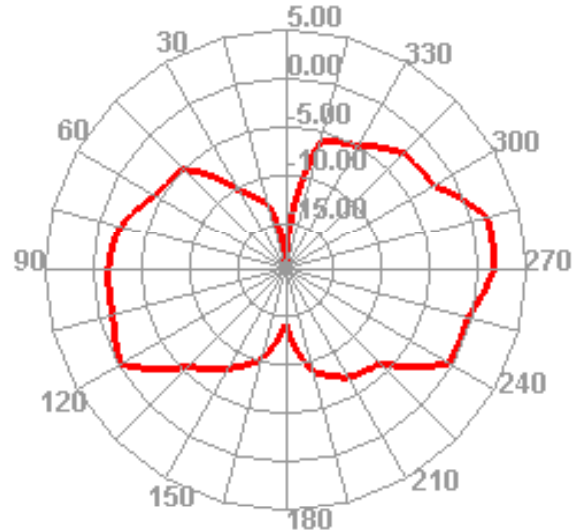
910.000MHz H



910.000MHz E1



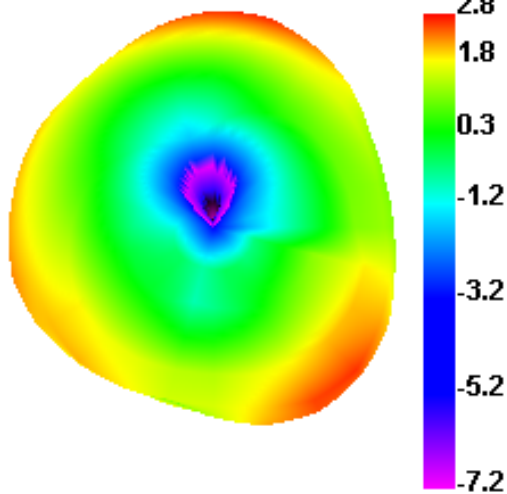
910.000MHz E2



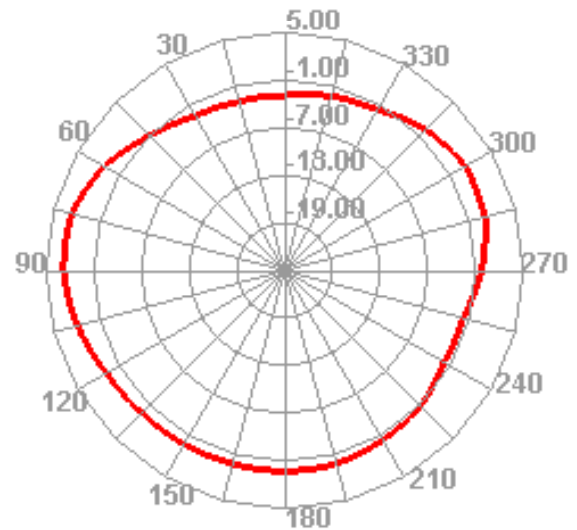


Radiation Pattern For 1440MHz Antenna (ANT-R)

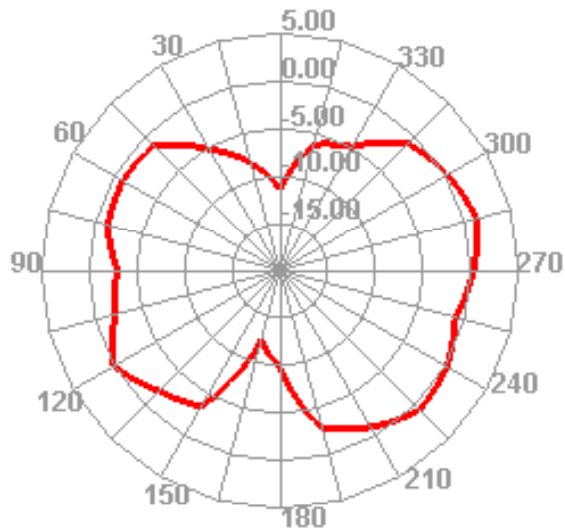
1454.000MHz



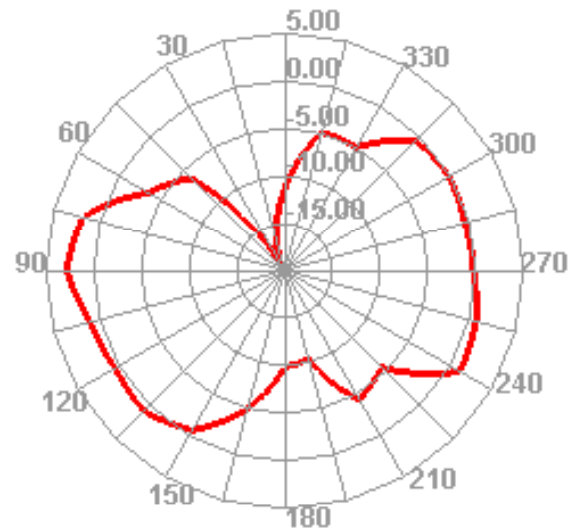
1454.000MHz H



1454.000MHz E1



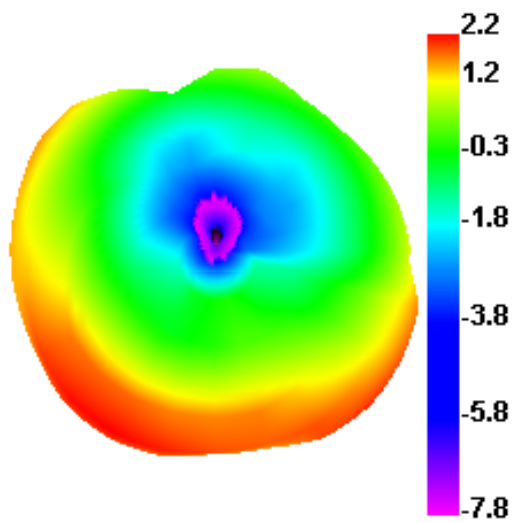
1454.000MHz E2



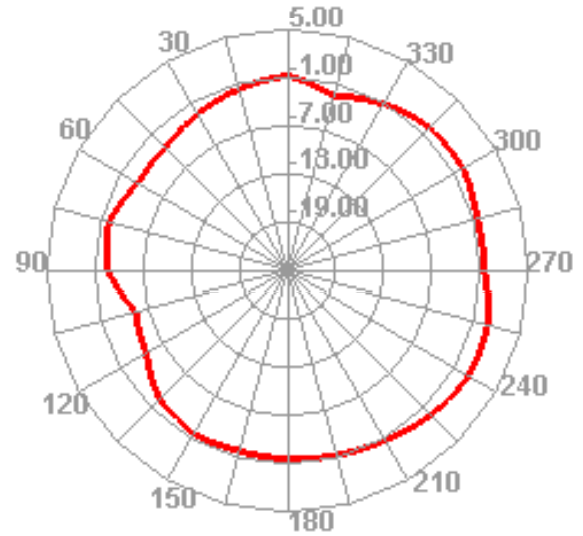


Radiation Pattern For WIFI2.4 Antenna (ANT-R)

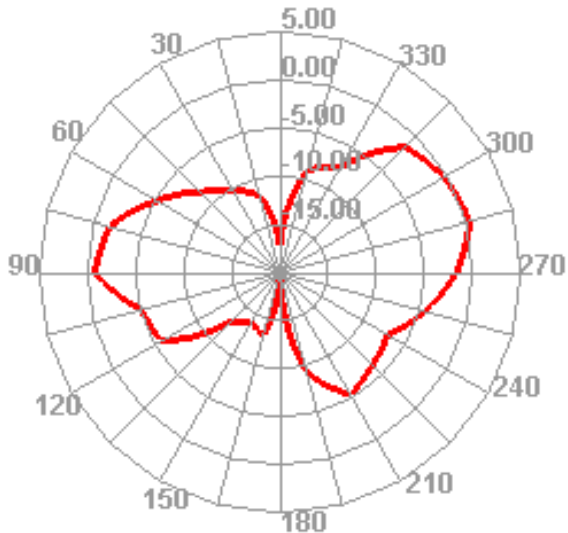
2450.000MHz



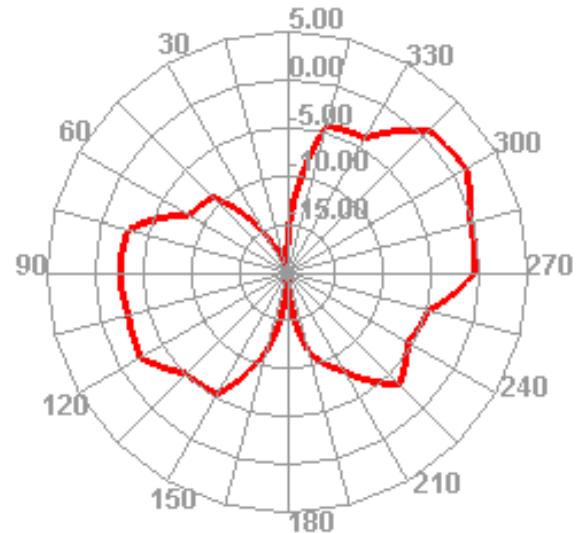
2450.000MHz H



2450.000MHz E1



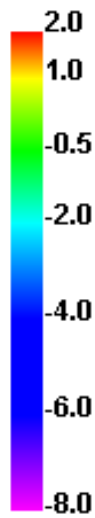
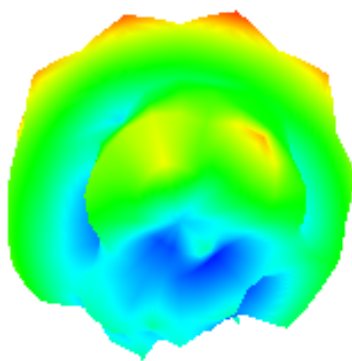
2450.000MHz E2



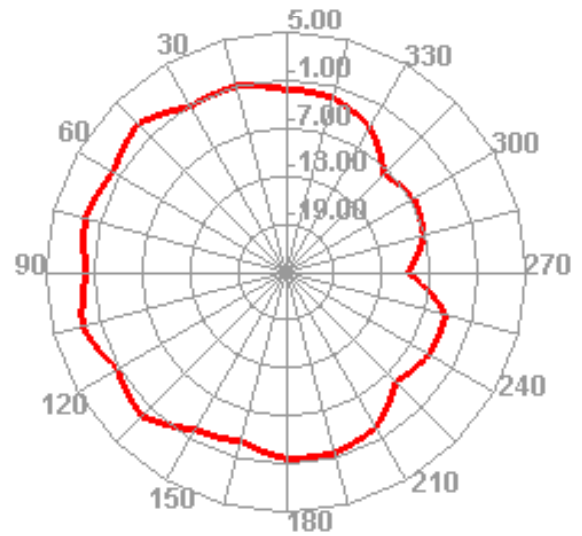


Radiation Pattern For WIFI5.8 Antenna (ANT-R)

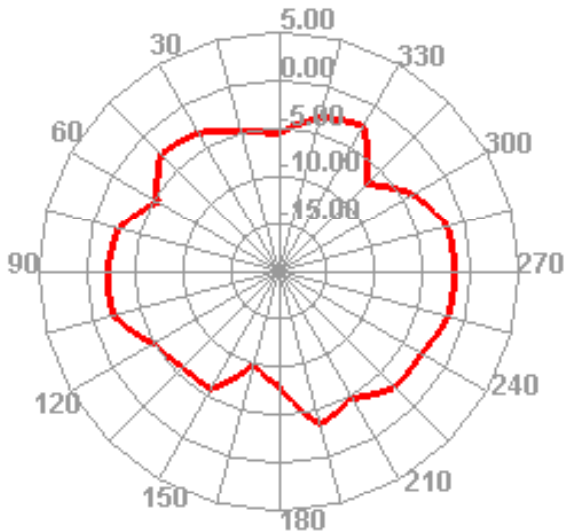
5500.000MHz



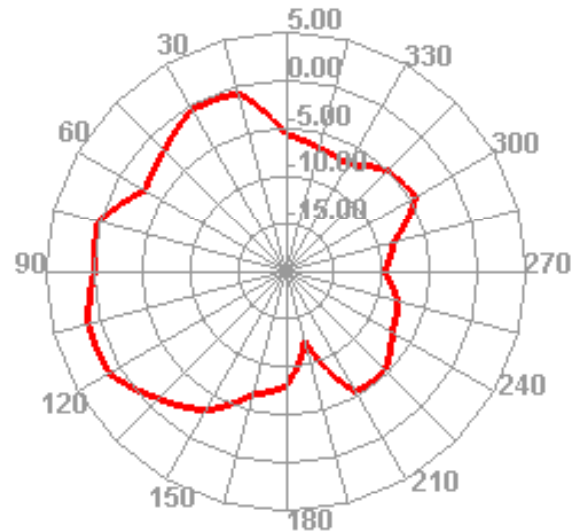
5500.000MHz H



5500.000MHz E1



5500.000MHz E2





Device



Antenna





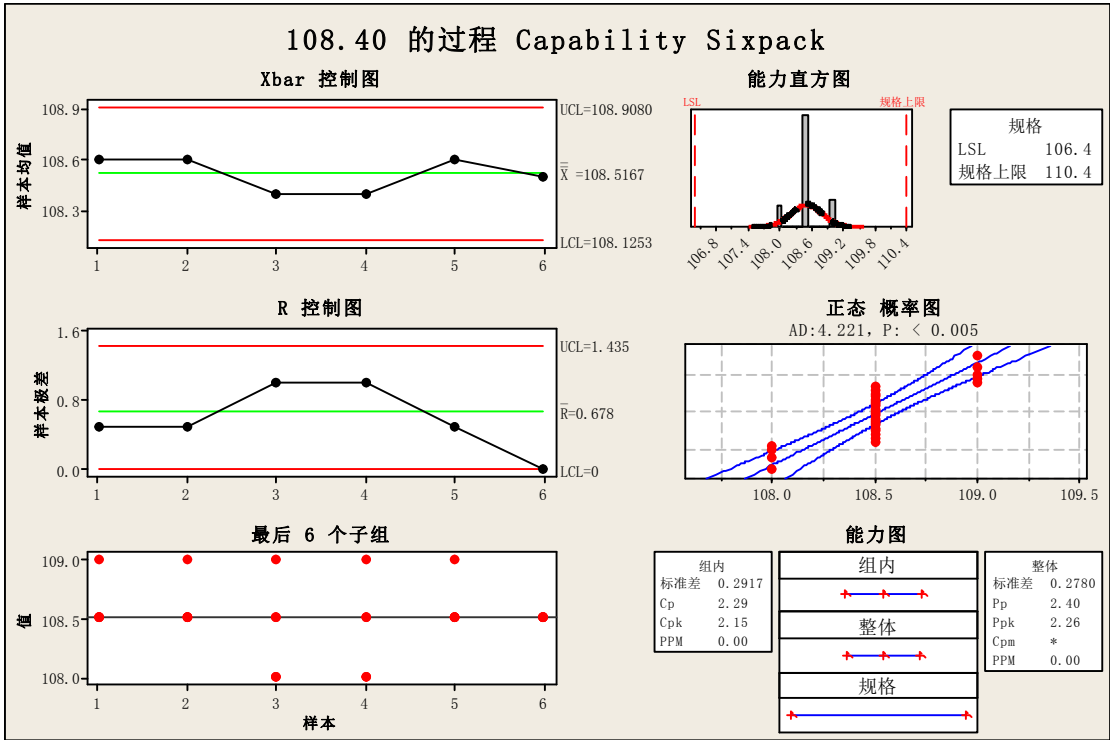
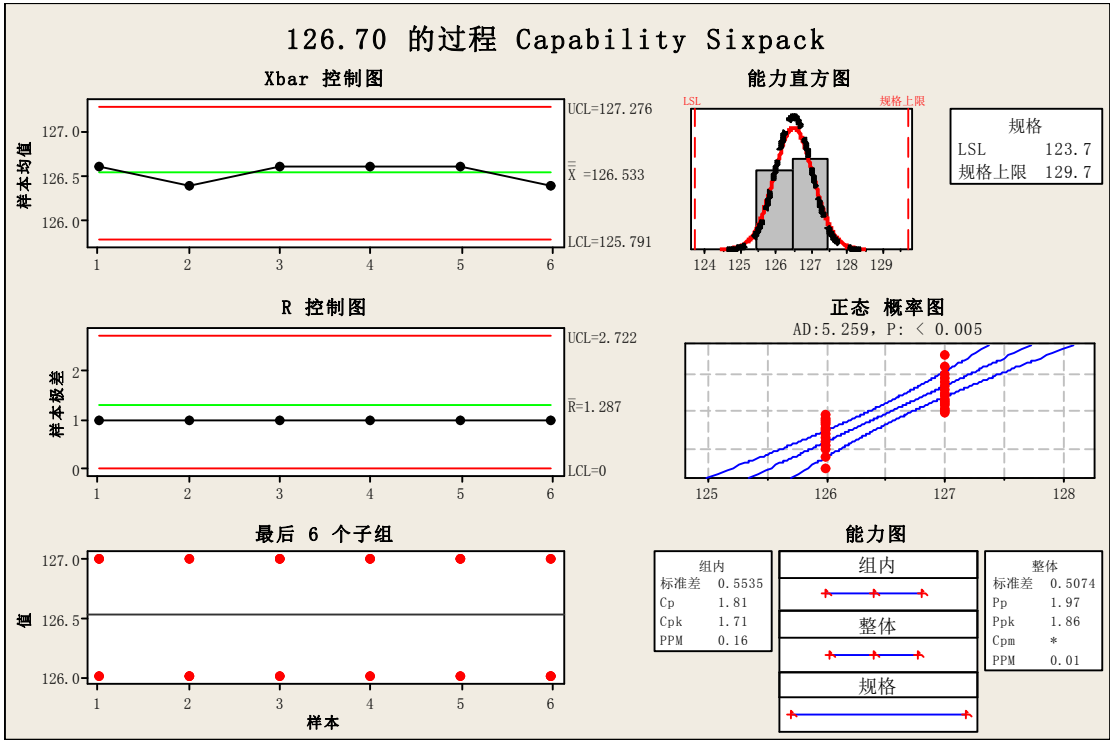
ANT-L
Antenna



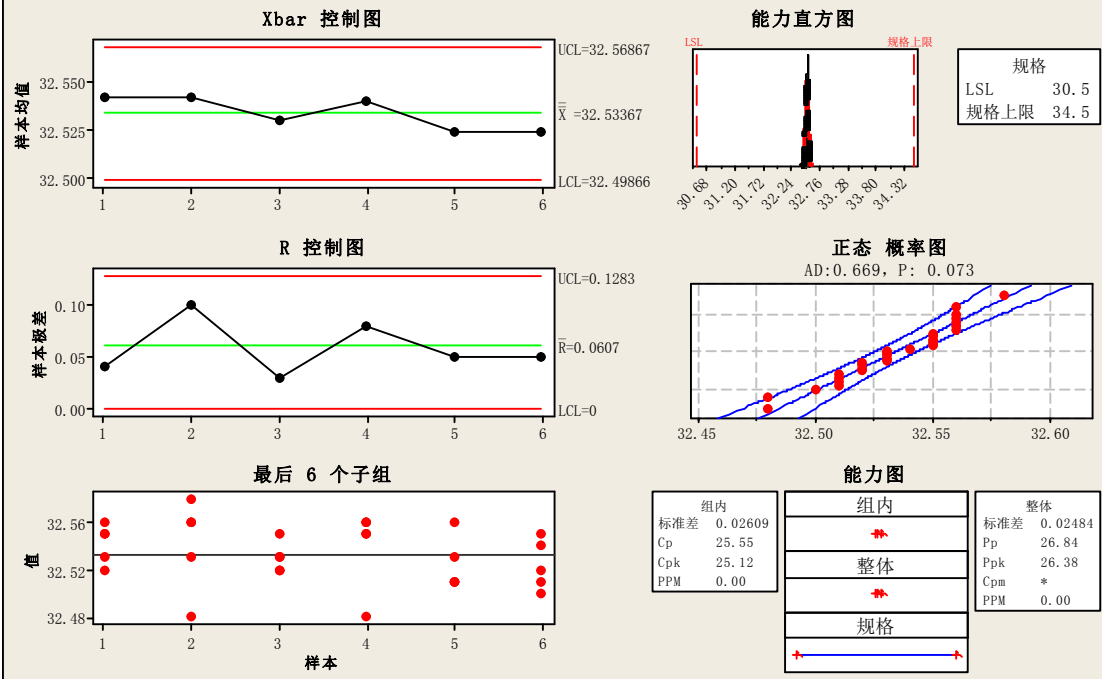


ANT-R Antenna

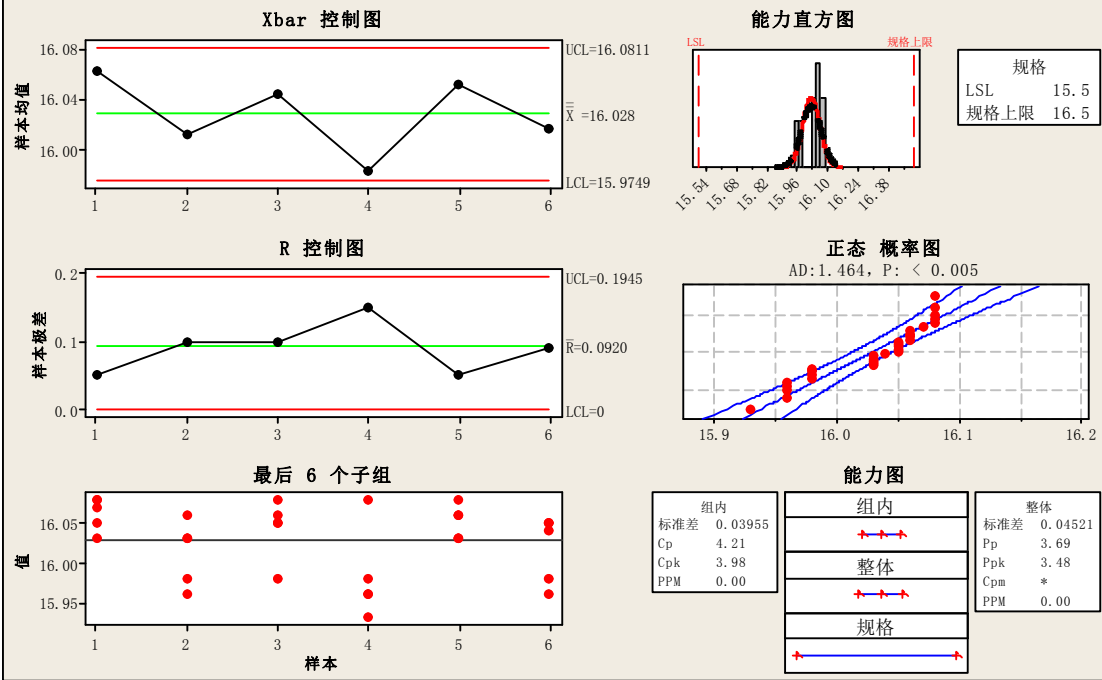




32.50 的过程 Capability Sixpack

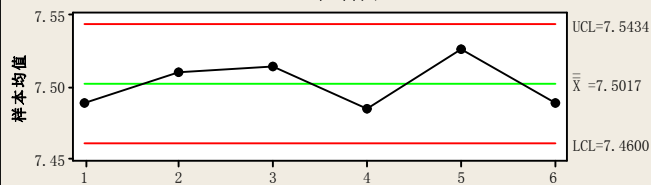


16.00 的过程 Capability Sixpack

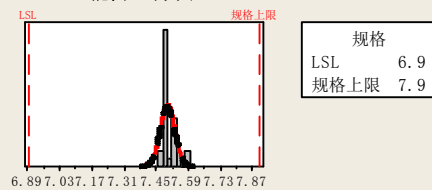


7.40 的过程 Capability Sixpack

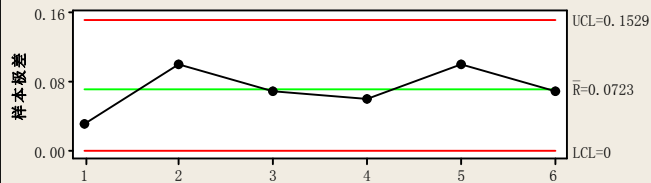
Xbar 控制图



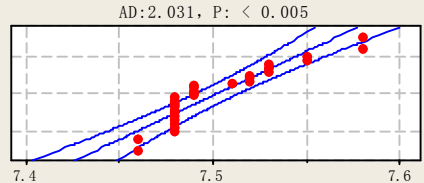
能力直方图



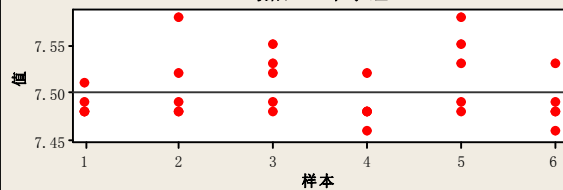
R 控制图



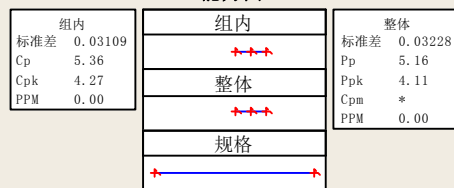
正态 概率图



最后 6 个子组



能力图





东莞市一佳电子通讯科技有限公司
Dongguan Yijia Electronics Communication Science&Technology Co.,Ltd.

全尺寸测量报告

客户		道通		产品料号		YJI01.005.051.101A				产品名称		900M/1.4G/2.4G/ 5.8G Antenna	
数量		5PCS		检验日期		2024.03.20				尺寸单位		MM	
序号	是否重点管控尺寸	NOMINAL	+TOL	-TOL	Sample Number					测量工具	OK/NG	备注	
					1	2	3	4	5				
1		126.70	+3.0	-3.0	127.0	126.0	127.0	126.0	127.0	钢尺	OK		
2		108.40	+2.0	-2.0	109.0	108.5	108.0	108.5	109.0	钢尺	OK		
3		32.50	+2.0	-2.0	32.52	32.55	32.56	32.55	32.56	卡尺	OK		
4		16.00	+0.5	-0.5	16.07	15.96	16.03	15.98	16.06	卡尺	OK		
5		7.40	+0.5	-0.5	7.48	7.48	7.48	7.52	7.58	卡尺	OK		
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审核：杨智

确认：颜铜程