

东莞市森泰电子有限公司
Dongguan MiaoTEC Electronics Co.,Ltd.
承认书
Specification For Approval

客户名称 (CUSTOMER):	云卓科技有限公司 Quanzhou SKYDROID Technology Co., Ltd.
品名 (DESCRIPTION):	RF Antenna ASSEMBLY 1.37 Cable 黑色 (Black) L270mm + 2.4G FPC+IPEX PLUG
客户料号 (PART NO):	H30-WiFi天线
料 号 (PART NO):	500101-00270-002R
送样日期 (DATE):	2024. 06. 25
版本 Revision:	A1
承认号码 (APPROVED NO.):	MT. 承-20240624-001

CUSTOMER APPROVED BY

APPROVAL	CHIEF	SUPERVISOR

SUPPLIER SIGNATURE

APPROVAL	CHECK	DESIGN

.....

东莞市森泰电子有限公司

目录

Spec Item

NO	项目 (Contents)	Number of Page	PageCode	备注 (Note)
1	封面 (Spec Cover)			
2	目录 (Spec Item)			
3	产品性能 (Electrical And Mechanical Specifications)			
4	产品规格图 (Product drawing)			
5	产品包装图 (Product Packing)			
6	产品尺寸检验报告 (Product Size Inspection Report)			
7	材质证明 (Material proof)			
8	UL证明 (UL proof)			
9	SGS报告 (SGS REPORT)			
10	MSDS报告 (MSDS REPORT)			

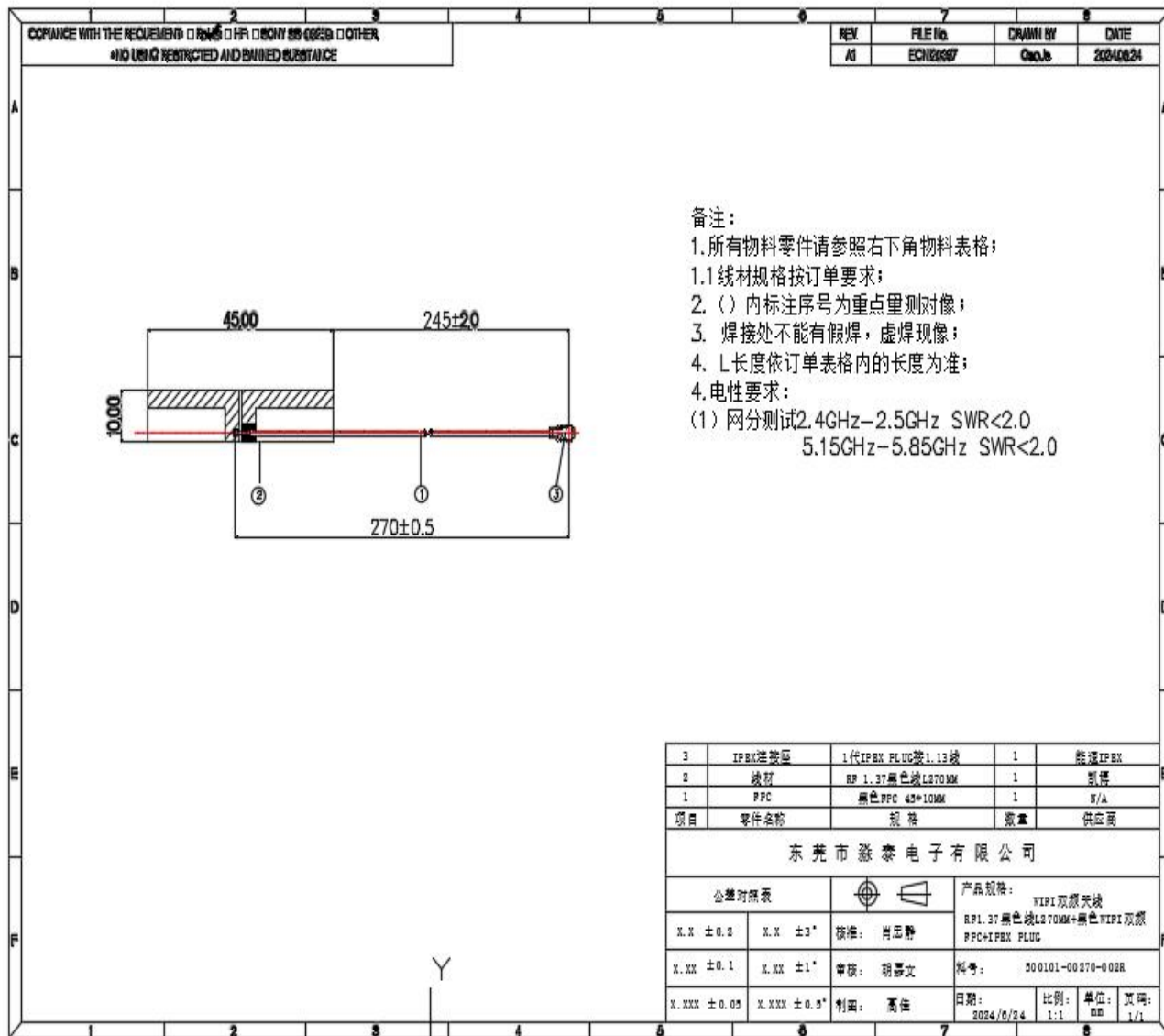
东莞市淼泰电子有限公司
Dongguan MiaoTEC Electronics Co.,Ltd.

电气参数 Electrical Specifications		
频率范围 Frequency range (MHz)	2.4-2.5GHz	5.15-5.85GHz
带宽 Bandwidth (MHz)	100MHz	700MHz
增益 Gain (dBi)	2dBi	4dBi
半功率波瓣宽度 Half-power beam width(°)	H:360 V:14	
电压驻波比 VSWR	≤3.5	
输入阻抗 Input Impedance(Ω)	50	
极化方式 Polarization	垂直Vertical	
最大功率 Maximum input power (W)	50	
雷电保护 Lightning protection	直流接地 DC Ground	
接头型号 Input connector type	1代IPEX PLUG	
机械参数 Mechanical Specifications		
天线尺寸 Dimensions (mm)	见工程图See engineering drawings	
天线重量 Antenna weight (kg)	2g	
工作温度 Operating temperature (°C)	~40-55	
天线颜色 Antenna color	White(白色)	

东莞市臻泰电子有限公司

产品图纸

Product drawing



射频部分关键元器件列表

List of key components in the RF section

序号 Number	关键件名称 Key component names	型号 model	规格 Specifications	制造商 manufacturer	备注 remarks
1	同轴线 Coaxial line	1.37	RF1.37 Black line	深圳市凯博科技有限公司 Shenzhen Kaibo Technology Co., Ltd	昆山 Kunshan
2	FPCB板 FPCB board	FPCB板 FPCB board	Black FPC soft board+Adhesive backing	东莞市淼泰电子有限公司 Dongguan Miaotai Electronics Co., Ltd	东莞长安 Dongguan Zhang ‘an
3	同轴连接器 Coaxial connector	IPEX	IPEX-1st generation terminals	东莞市能速电子有限公司 Dongguan Nengsu Electronics Co., Ltd	东莞长安 Dongguan Zhang ‘an
4					
5					

东莞市森泰电子有限公司

S Parameter Test

E5071B

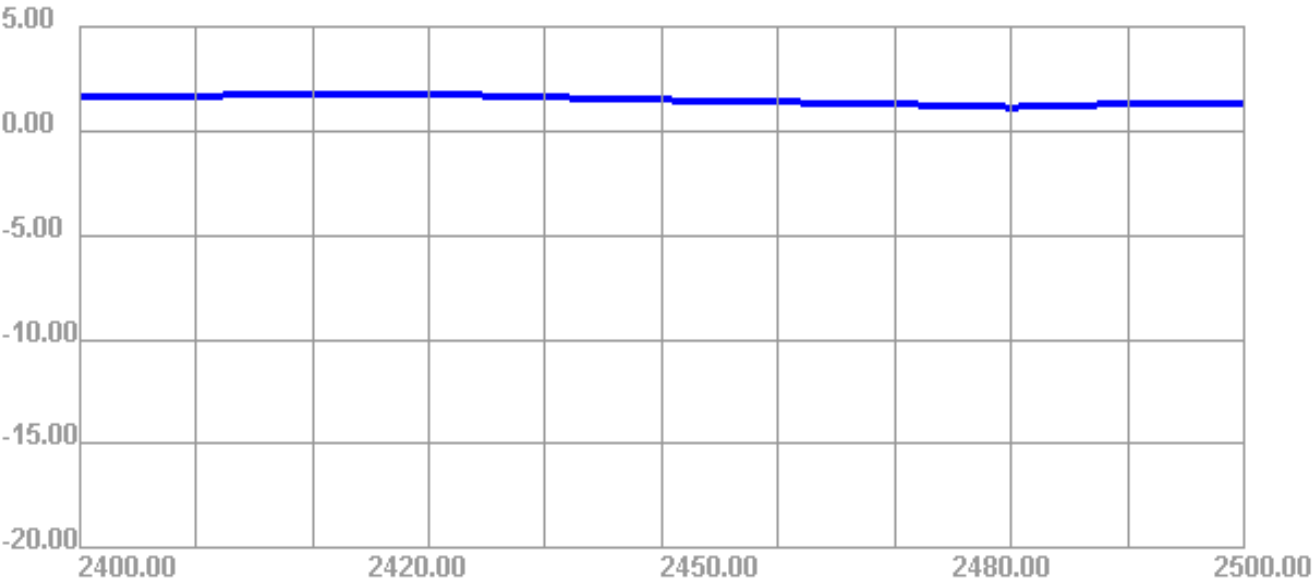


Antenna Frequency (2400~2500MHZ) – (5150~5850MHZ)

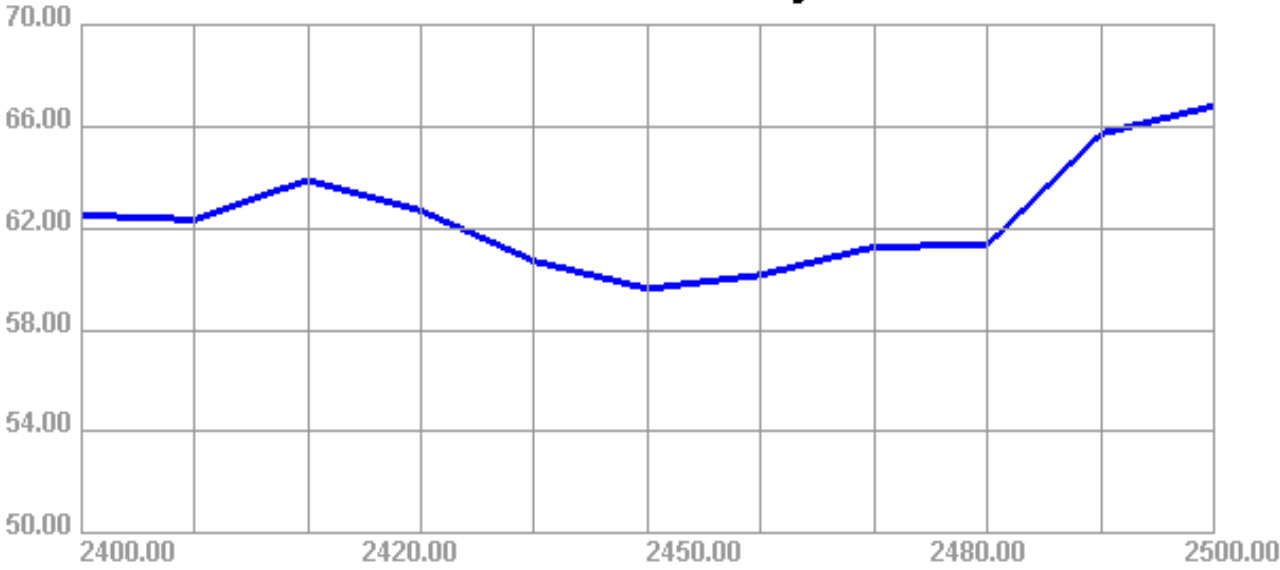
Frequency	2400 MHZ	2450 MHZ	2500 MHZ				
Return Loss	-28.906	-18.597	-14.802				
Frequency	5150 MHZ	5250 MHZ	5530 MHZ	5470 MHZ	5597 MHZ	5725 MHZ	5850 MHZ
Return Loss	-17.242	-18.352	-17.567	-15.889	-15.929	-12.679	-15.944

Passive Test For WIFI2400										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)
2400	62.51	-2.04	1.61	-0.54	32.554	29.958	1.61	-13	3.65	30
2410	62.34	-2.05	1.66	-0.49	31.967	30.372	1.66	-12.16	3.71	30
2420	63.89	-1.95	1.8	-0.35	32.254	31.638	1.8	-11.29	3.75	30
2430	62.69	-2.03	1.77	-0.38	31.174	31.515	1.77	-10.6	3.79	120
2440	60.71	-2.17	1.61	-0.54	29.81	30.899	1.61	-10.28	3.78	120
2450	59.63	-2.25	1.48	-0.67	28.967	30.66	1.48	-10.23	3.73	30
2460	60.16	-2.21	1.38	-0.77	28.998	31.166	1.38	-10.34	3.59	30
2470	61.26	-2.13	1.28	-0.87	29.212	32.053	1.28	-10.7	3.41	60
2480	61.35	-2.12	1.13	-1.02	28.796	32.558	1.13	-11.06	3.25	60
2490	65.71	-1.82	1.29	-0.86	30.206	35.505	1.29	-10.98	3.12	60
2500	66.81	-1.75	1.27	-0.88	30.073	36.738	1.27	-10.82	3.02	60

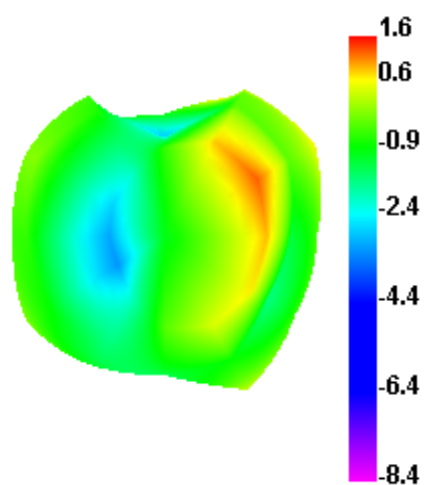
2400.00MHz - 2500.00MHz Gain



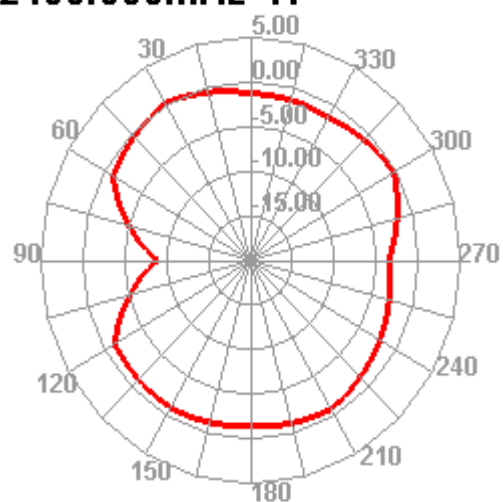
2400.00MHz - 2500.00MHz Efficiency



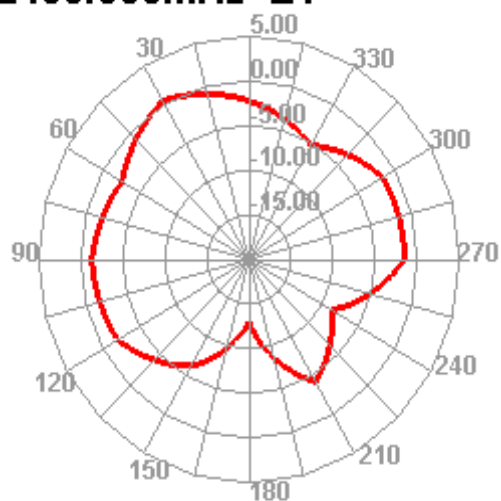
2400.000MHz



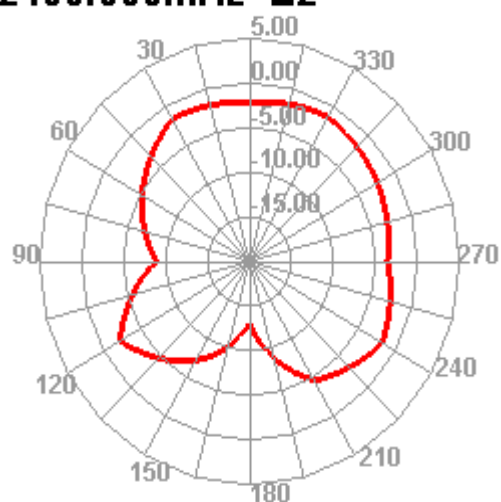
2400.000MHz H



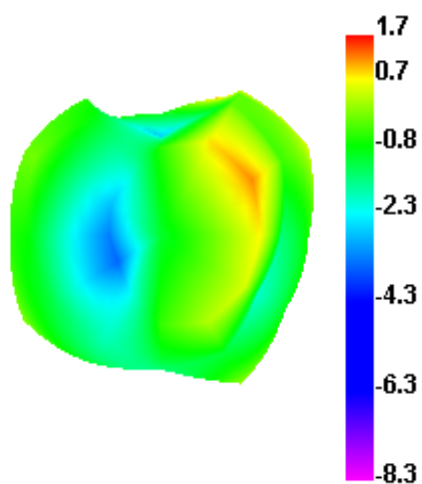
2400.000MHz E1



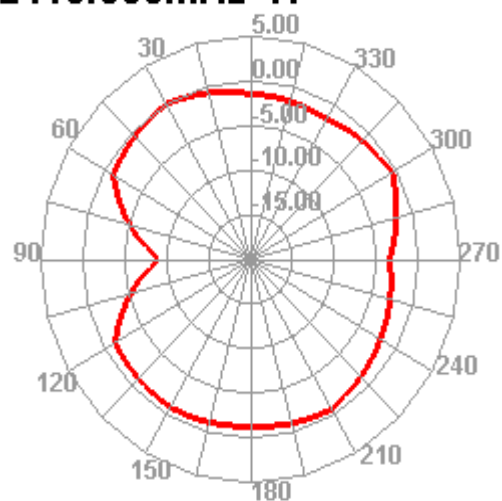
2400.000MHz E2



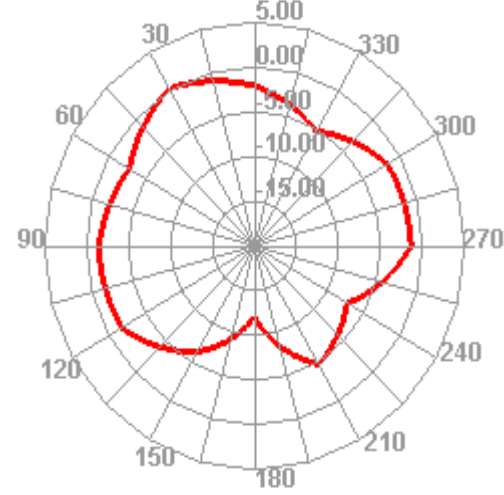
2410.000MHz



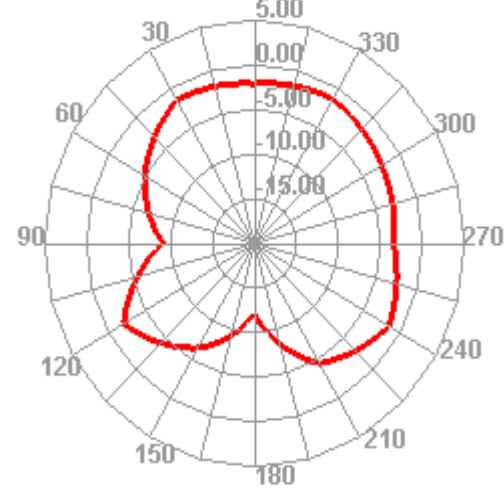
2410.000MHz H



2410.000MHz E1



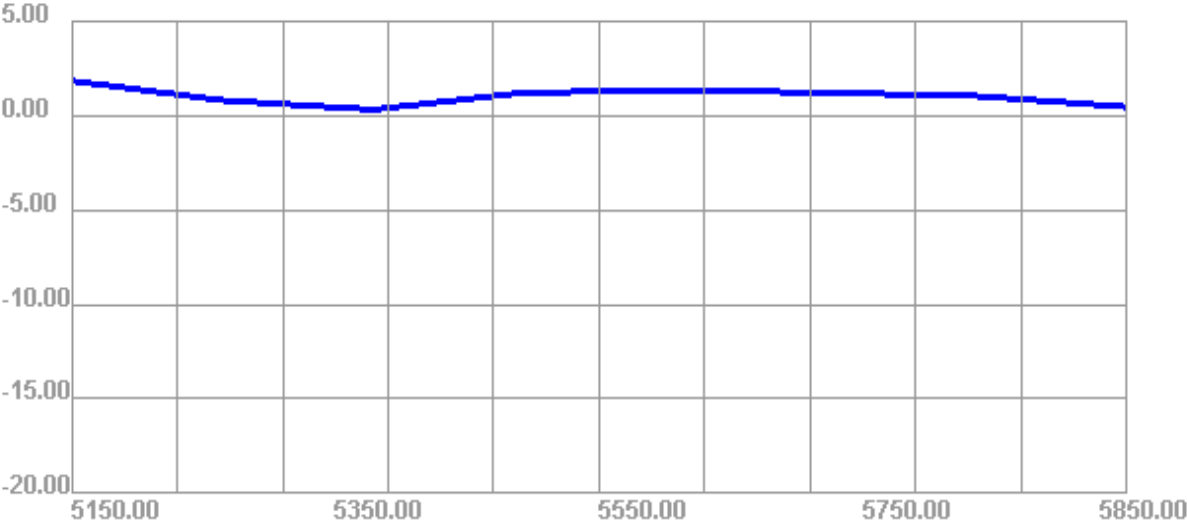
2410.000MHz E2



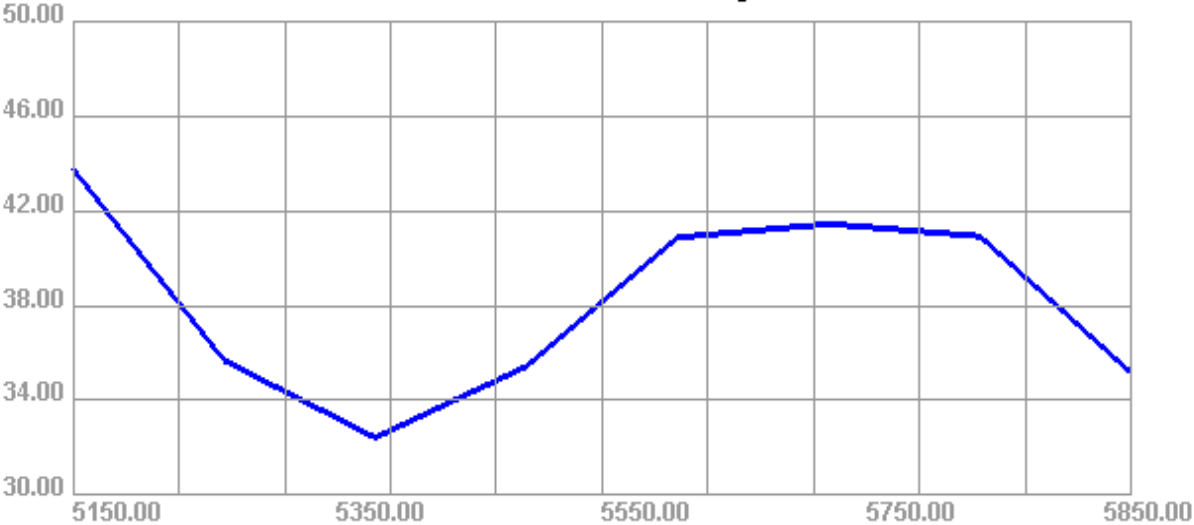
Application Information	
04Version	5.223.331
TotalTime	3m 0s 122ms
AdditionalInfor	NULL

Passive Test For WIFI-5G										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)
5150	43.77	-3.59	1.83	-0.32	26.607	17.162	1.83	-15.26	5.42	60
5250	35.69	-4.47	0.81	-1.34	21.348	14.342	0.81	-15.16	5.28	60
5350	32.43	-4.89	0.31	-1.84	18.864	13.567	0.31	-18.24	5.2	90
5450	35.45	-4.5	1.21	-0.94	21.424	14.026	1.21	-18.44	5.71	60
5550	40.88	-3.88	1.35	-0.8	24.811	16.07	1.35	-22.05	5.23	60
5650	41.45	-3.82	1.21	-0.94	24.395	17.056	1.21	-17.25	5.03	60
5750	40.93	-3.88	1.03	-1.12	23.579	17.349	1.03	-17.35	4.91	120
5850	35.16	-4.54	0.46	-1.69	20.197	14.966	0.46	-14.91	5	90

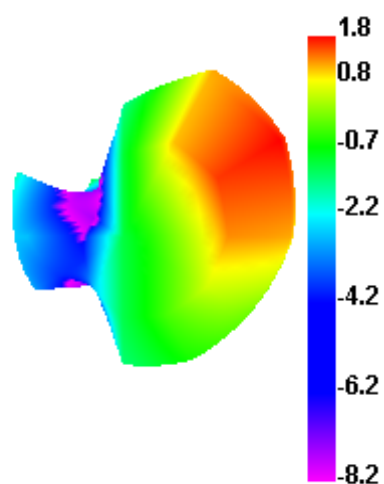
5150.00MHz - 5850.00MHz Gain



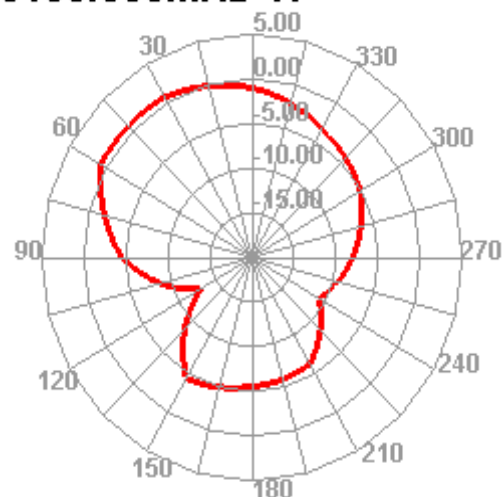
5150.00MHz - 5850.00MHz Efficiency



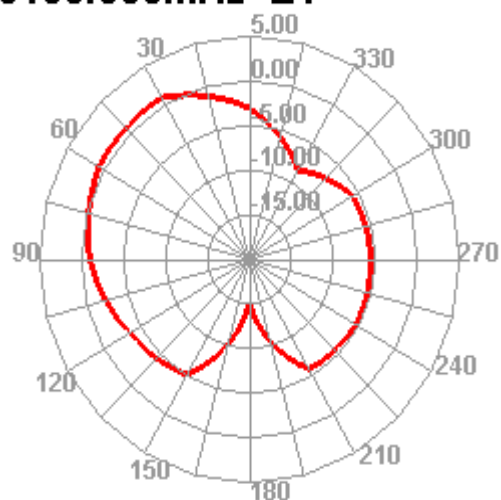
5150.000MHz



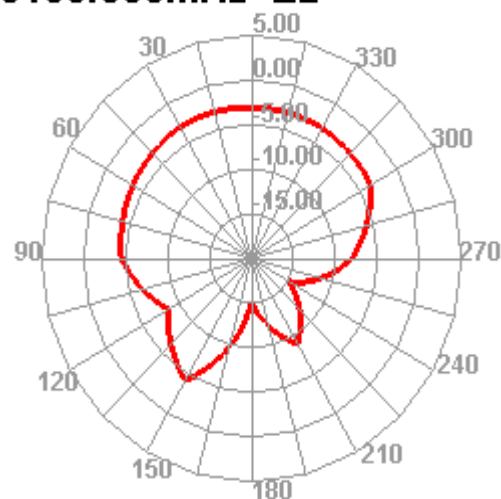
5150.000MHz H



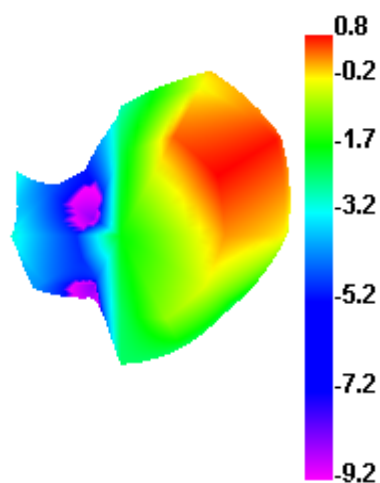
5150.000MHz E1



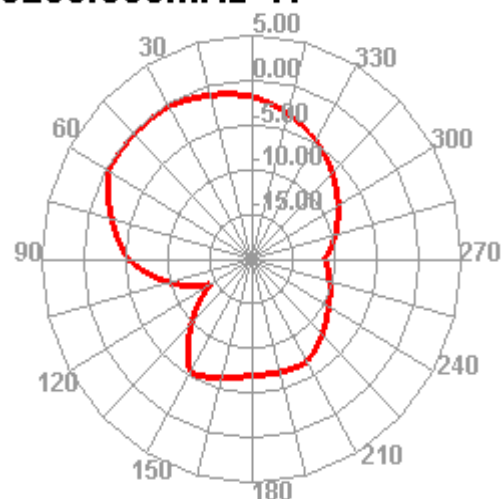
5150.000MHz E2



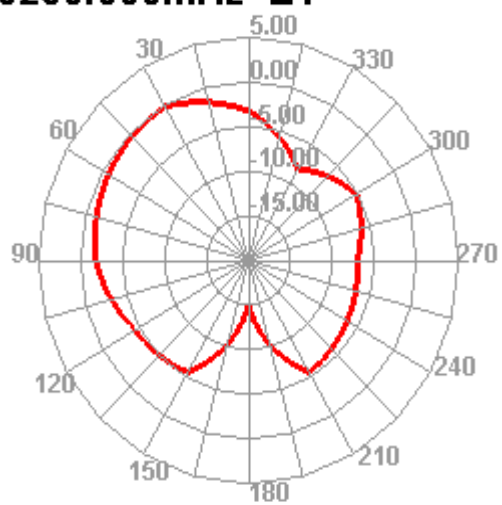
5250.000MHz



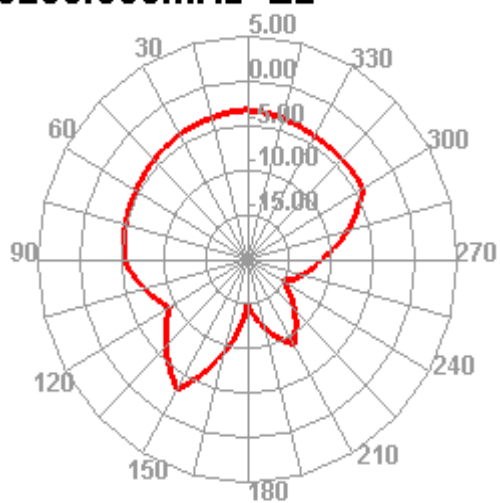
5250.000MHz H



5250.000MHz E1



5250.000MHz E2



Application Information	
04Version	5.223.331
TotalTime	3m 0s 122ms
AdditionalInfo	NULL