



深圳市诚连电子有限公司

Shenzhen chenglian electronic co., LTD

承 认 书

SPECIFICATION FOR APPROVAL

客 户 名 称

CUSTOMER NAME: 广东汉影智能电子科技有限公司

产 品 名 称

PRODUCT NAME: HY-350FPC天线

客 户 料 号

CUSTOMER

诚 连 料 号

Cheng Lian

REV:A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	程良日	
APPROVED BY:	张国勤	
DATE:	2023. 12. 9	



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1. 规格表/ Specification table:

主要技术指标		Main technical specifications	
频率范围	2400-2500MHz 5150-5850MHz	Frequency Range	2400-2500 MHz 5150-5850 MHz
特性阻抗 (Ω)	50 $\pm$ 10	Impedance(Ω)	50 $\pm$ 10
最大功率	10W	Admitted Power	10W
极化方式	垂直极化	Polarization	Linear, Vertical
方向性	全向性	Radiation	Omni-directional
连接方式	Cable	Connector Type	Cable
物理性能		Physical Properties	
天线本体材料	FPC	Antenna Base	FPC
天线走线材料	Copper	Antenna cover	Copper
工作温度	-20 $^{\circ}$ C $\sim$ +60 $^{\circ}$ C	Operating Temp	-20 $^{\circ}$ C $\sim$ +60 $^{\circ}$ C
保存温度	-20 $^{\circ}$ C $\sim$ +70 $^{\circ}$ C	Storage Temp	-20 $^{\circ}$ C $\sim$ +70 $^{\circ}$ C

2. 测试设备及数据

回波损耗及 VSWR 使用了下面的安捷伦 E5071B 网络分析仪进行测试。



E5071B 网络分析仪

功率/灵敏度/效率

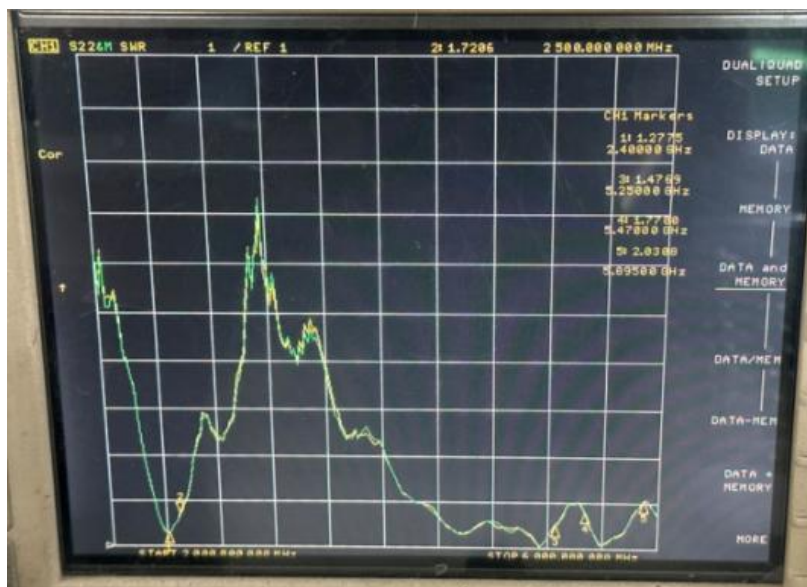
天线功率/灵敏度/效率使用了 SG24 微波暗室进行了测试



SG24 微波暗室



驻波



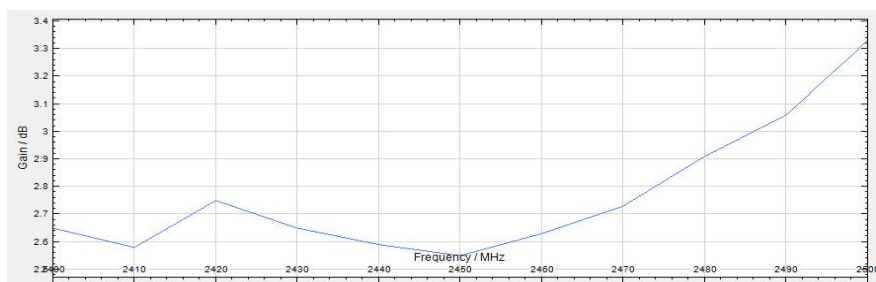
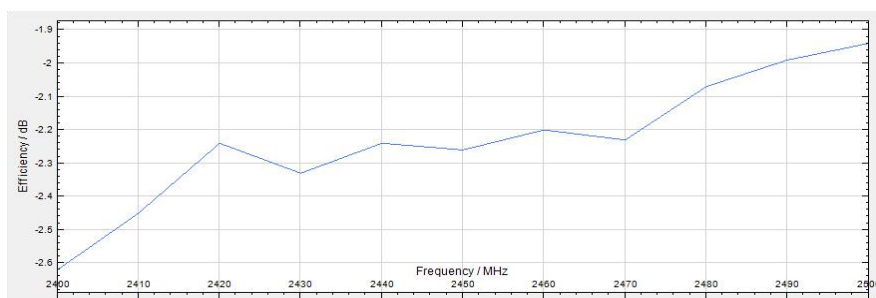
WIFI 无源效率测试数据

2.4G

Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dB
2400	-2.62	54.7	2.65
2410	-2.45	56.89	2.58
2420	-2.24	59.7	2.75
2430	-2.33	58.48	2.65
2440	-2.24	59.7	2.59
2450	-2.26	59.43	2.55
2460	-2.2	60.26	2.63
2470	-2.23	59.84	2.73
2480	-2.07	62.09	2.91
2490	-1.99	63.24	3.06
2500	-1.94	63.97	3.33

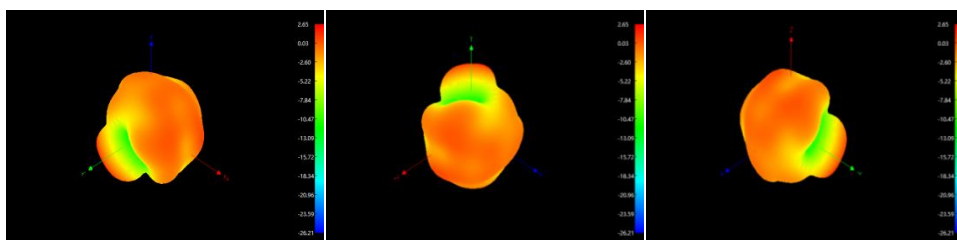


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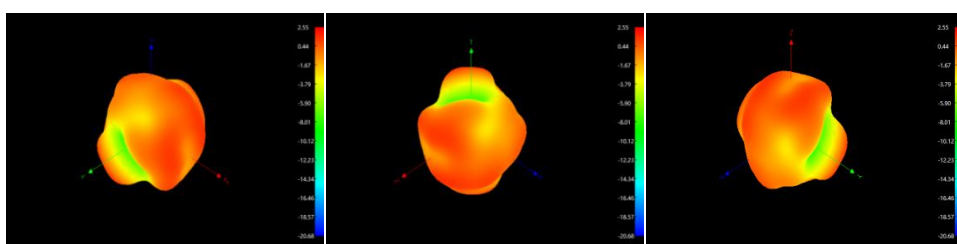


2.4G

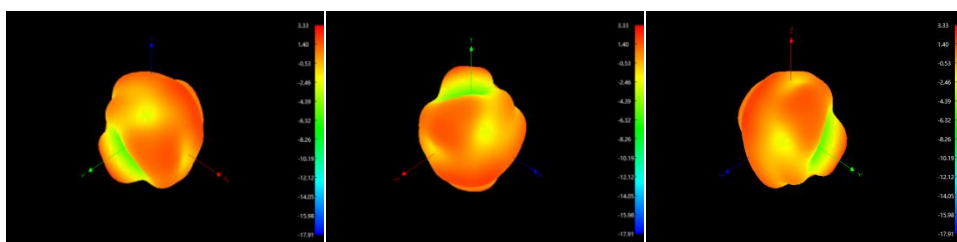
2400MHz



2450MHz



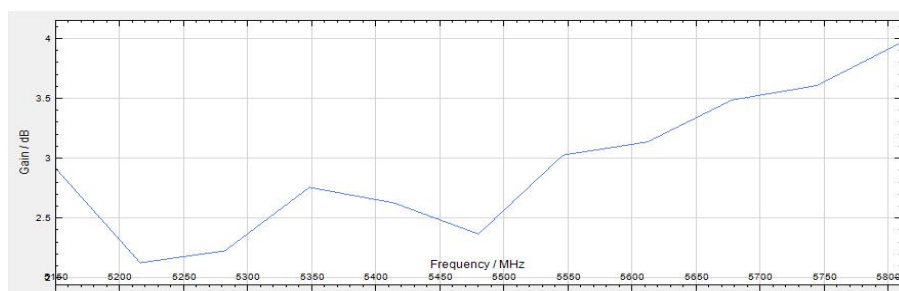
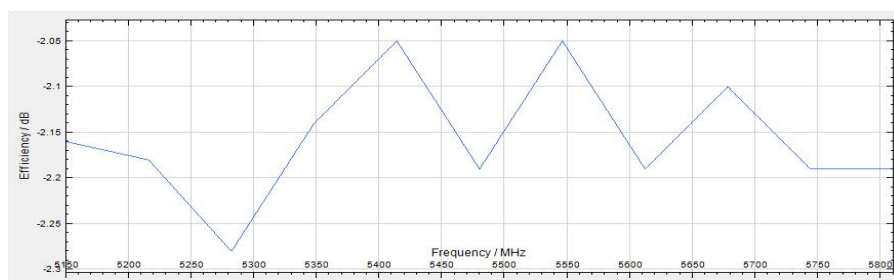
2500MHz





5G

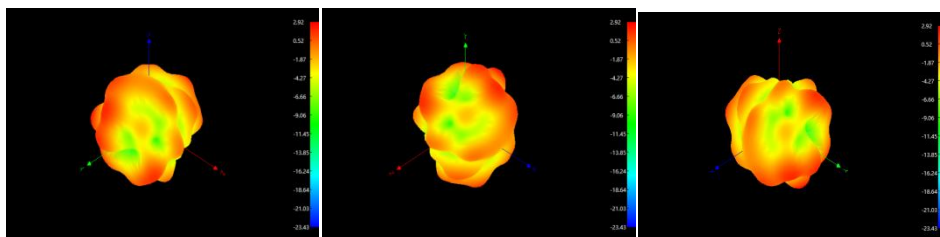
Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dB
5150	-2.16	60.81	2.92
5216	-2.18	60.53	2.13
5282	-2.28	59.16	2.23
5348	-2.14	61.09	2.76
5414	-2.05	62.37	2.63
5480	-2.19	60.39	2.37
5546	-2.05	62.37	3.03
5612	-2.19	60.39	3.14
5678	-2.1	61.66	3.49
5744	-2.19	60.39	3.61
5810	-2.19	60.39	3.97
5850	-2.19	60.39	3.93



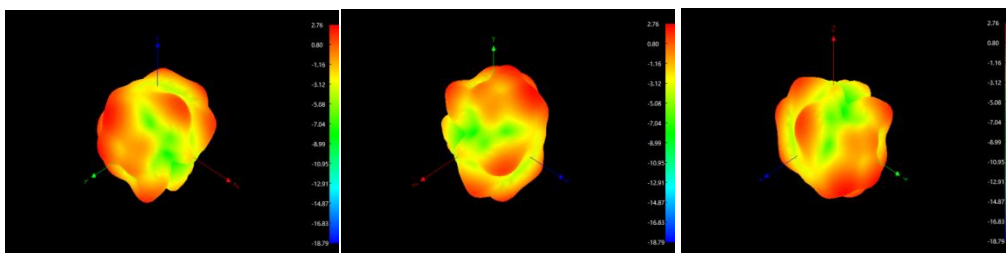


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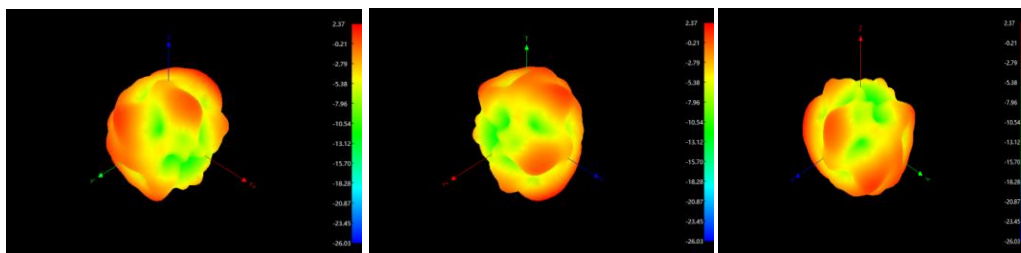
5150MHz



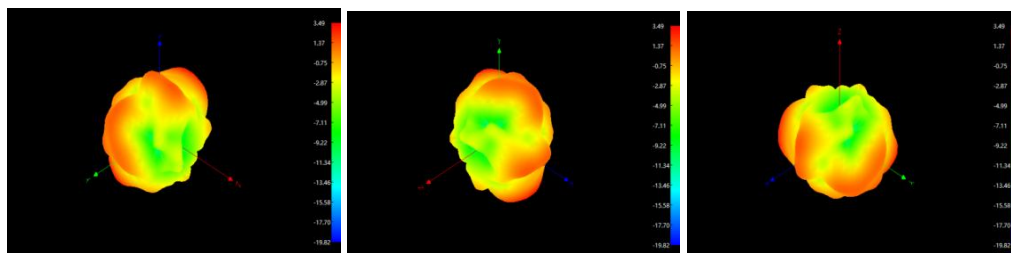
5350MHz



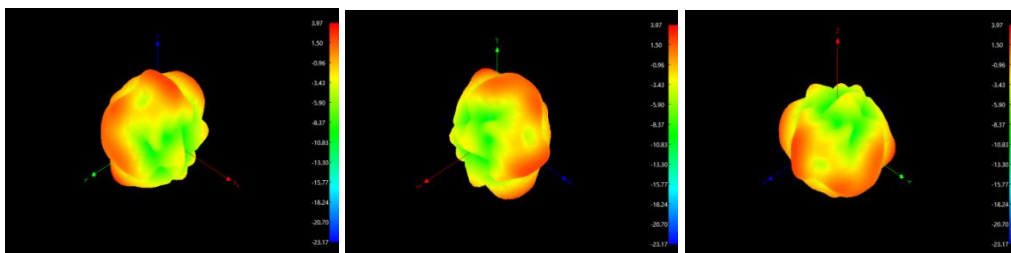
5480MHz



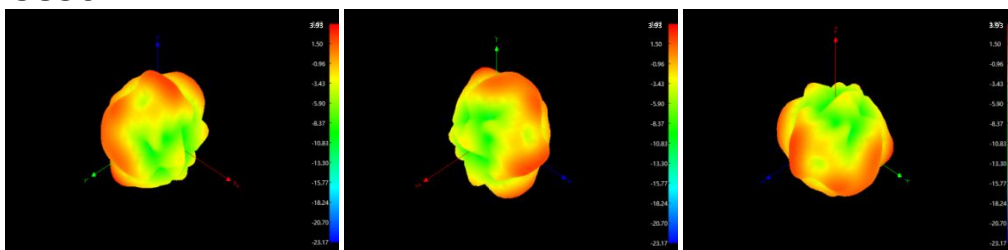
5678MHz



5810MHz



5850MHz



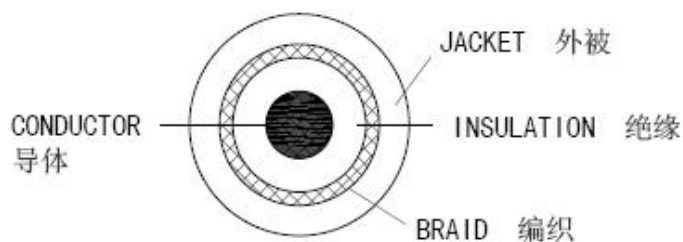


3.Cable 规格:

结构/Construction:

单位/Unit:mm

项目/Item		详细资料/Details
导体/Conductor	材料/Material	镀银铜线/Silver-coated Copper Wire
	构成(根/mm) Composition(No./mm)	7/0.080
	标称直径/NOM. O. D	0.24±0.03
绝缘层 /Insulation	材料/Material	聚全氟乙丙烯(自然色) /FEP(Natural)
	标称绝缘厚度/Nom. Thick. (mm)	0.23
	标称外径/NOM. O. D	0.70±0.03
屏蔽层/Shield	材料/Material	镀锡铜线/Tinned annealed copper wire
	构成/Composition	16*4/0.05
	编织密度/Coverage (%)	90±5
护套/Jacket	材料/Material	聚全氟乙丙烯/FEP
	标称护套厚度/ Nom. Thick (mm)	0.10
	标称外径/Nom. O. D (mm)	1.13±0.05
	颜色/Color	按与客户确认的颜色/According to corresponding have approved by the suppliers and customers

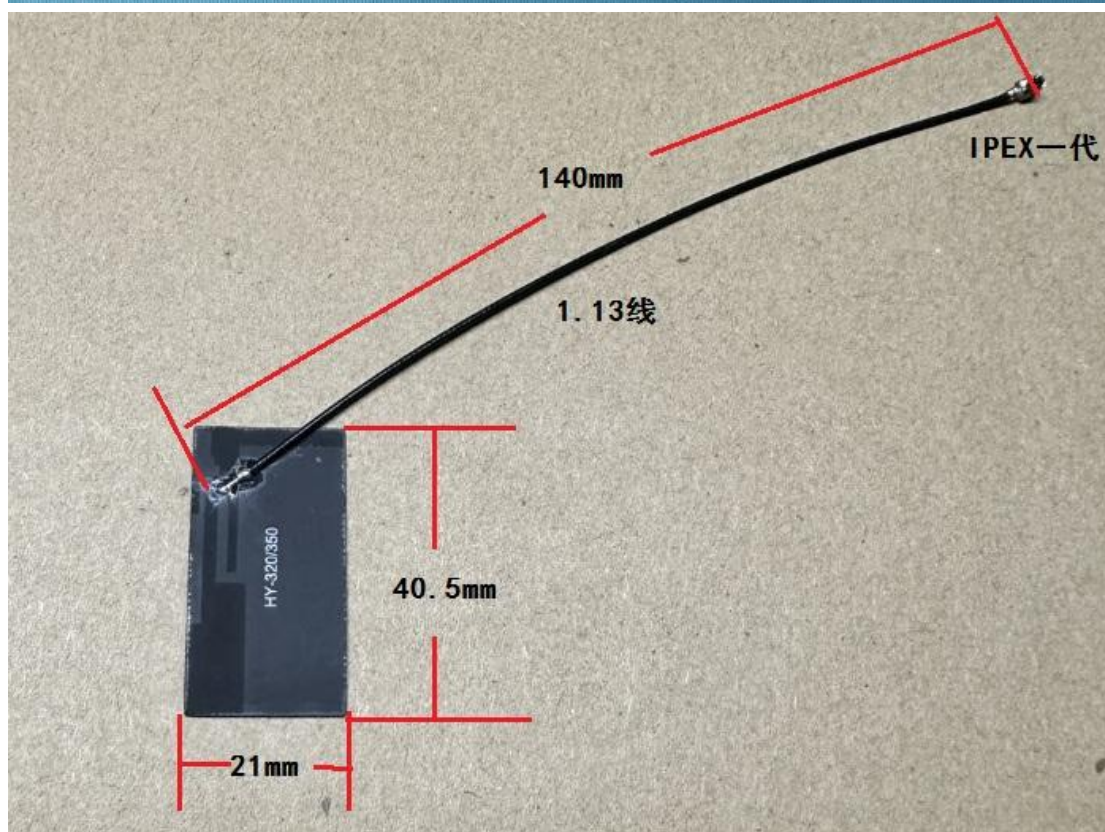
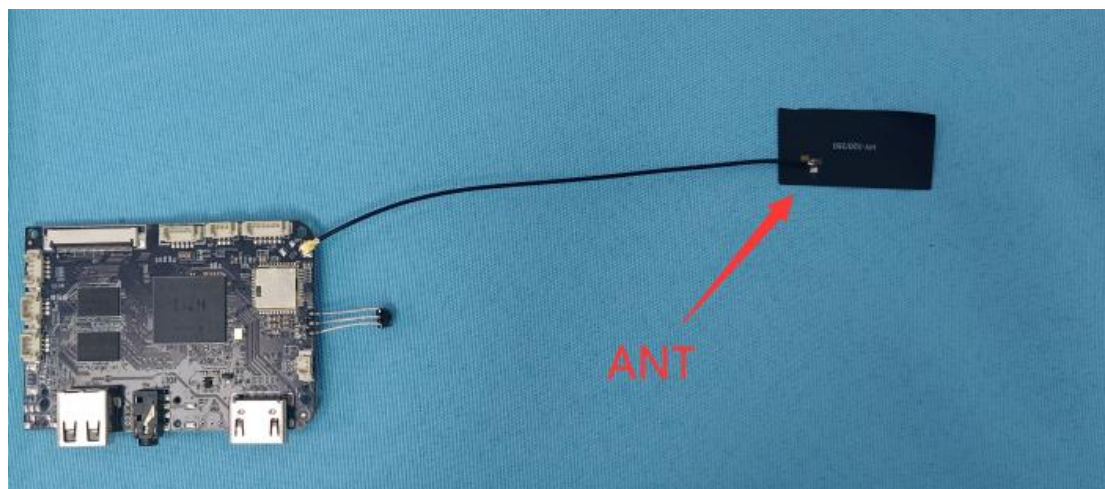




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4.实物图:





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