Suzhou Point Positive Electronic Technology Co.,ltd

SPECIFICATION FOR APPROVAL

Customer	Hansong(NanJing)Technology Ltd		
Customer P/N	45-2-000509	Rev.	A1
Description	ANTENNA		
DRAWING P/N	RC12WFI0360A1		

CUSTOMER APPROVED BY STAMP	Approval	Quality	RD	Sales
	Roy	Hellen	Tak	Frank

ADD : No 3 XinLang Road ,Yinghu industrial Park, Wangting Town
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SPECIFICATION

1. Description	ANTENNA
2. Customer	Hansong(NanJing)Technology Ltd
3. Model No	RC12WFI0360A1
4. Part No	45-2-000509
5.Standard	WIFI
6.Antenna Profile	180mm (see Drawing)
7.Color	GREY

8.Electrical Characteristics

Operating Frequency	2.4/5.8Ghz
Antenna Type	DUAL BAND
Polarization Type	Omni-directional
Type of Radiation	vertical or horizontal
Peak Gain	2.4~5.8G/ 1.5~2.5 dBi Typica
Impedance	50Ω
V.S.W.R	2:1 Max

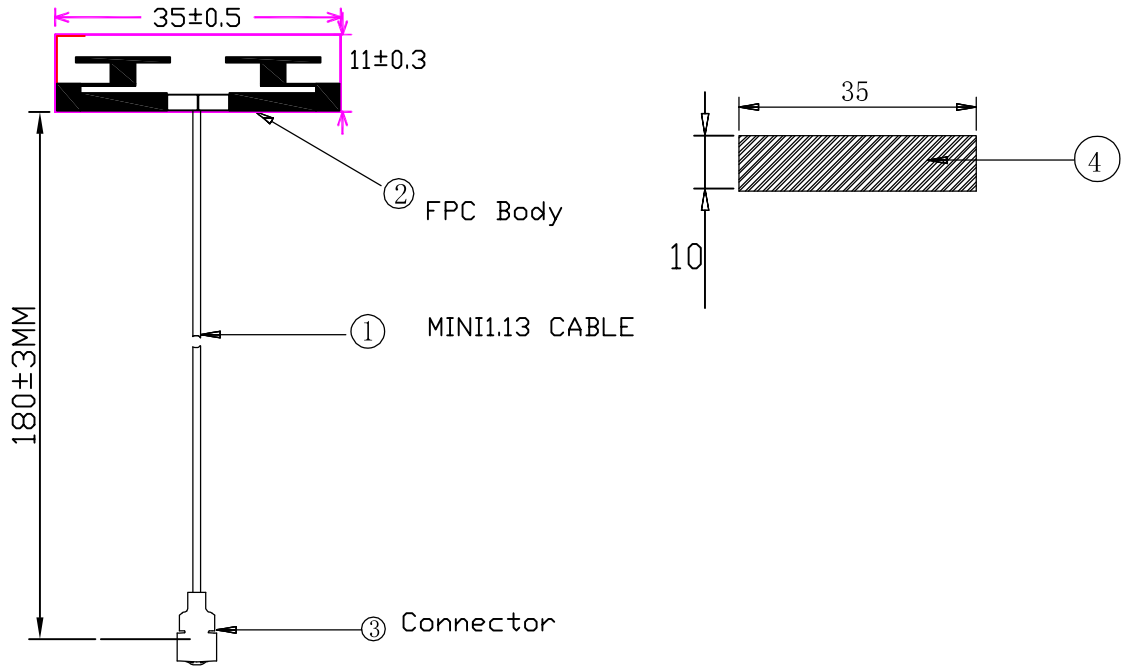
9.Mechanical Characteristics

Swivel	
Lead Length	L:180MM
Connector	MHF CON

10.Raw Material

Coaxial Cable	MINI1.13
Housing/Hinge	FPC

变更内容履历简述 REVISIONS DESCRIPTION	版次 REV.	年月日 DATE	變更切換方式	作成
1				
2				
3				



spec;

TEST VSWR/Return loss;

Frequency:2.4/5Ghz

No	材料名称	厂 商	零件规格及描述	颜 色	尺寸及备注	
4	背胶	KS	9*30MM	白色		1
3	连接器	CPT	ANCZ1131-1C1	金色		1
2	本体	MJ	FPC PP098	金色		1
1	电线	YD	YD113-911213D MINI11.3 GREY COAXIALC CABLE	灰色		1

第 3 角 法	图 面 不 用 实 测				客 户 料 号	
单 位: MM	绘 图	检 图	确 认	核 准	品 名	2.4/5Ghz Antenna L:180MM
比 例: FREE	Star	Hellen	Roy	Daivd	产 品 分 类	☑ A 成品 ☐ B 半成品 ☐ C 样品
DATE:10/22/21					公 司 图 号	RC12WFI0360A1

Research & Development Department

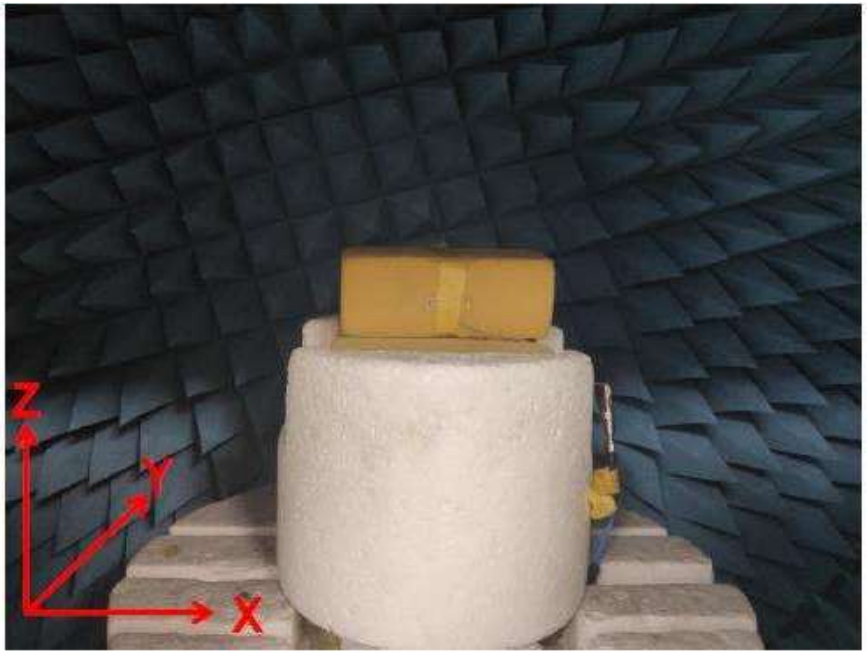
Antenna Measurement

CUSTOMER
:ANT BANDWIDTH :2.4-5.8GHz/FPC PP098

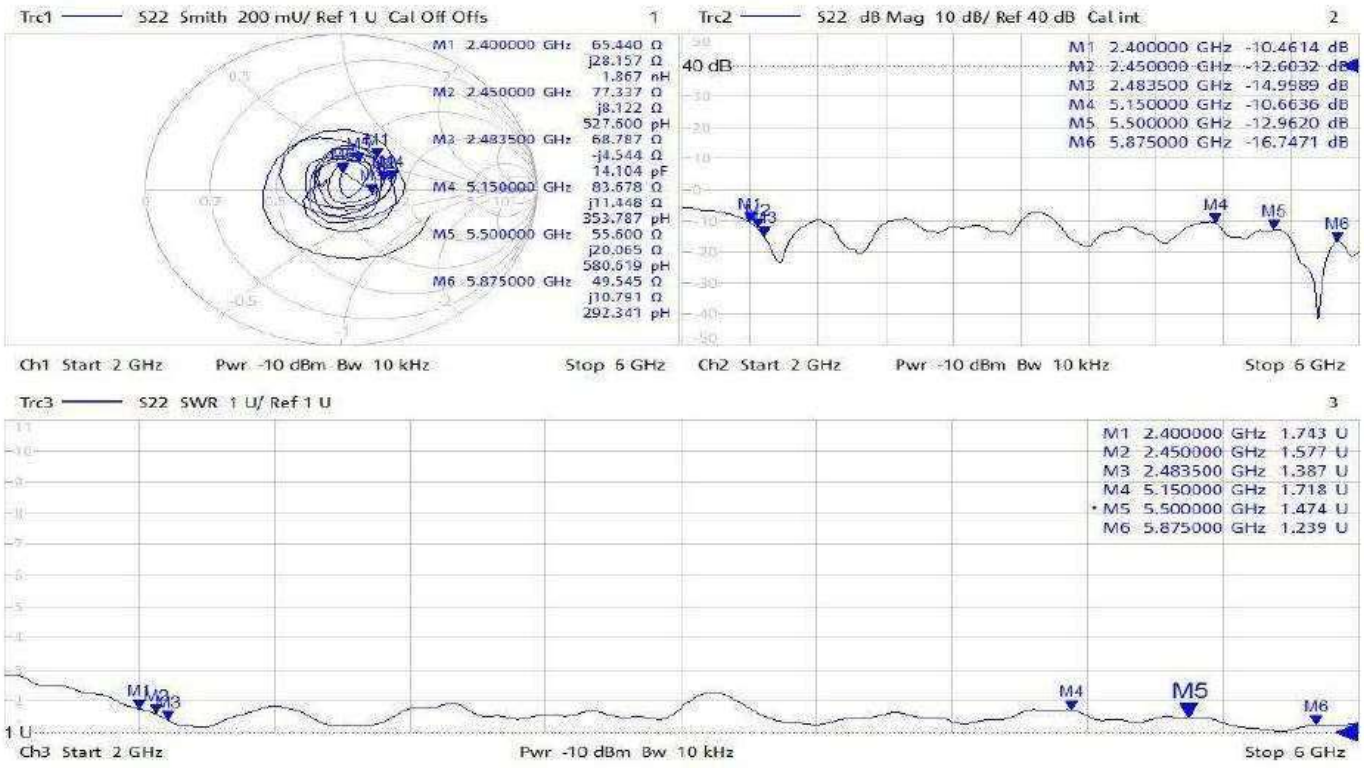
TEST INSTRUMENT
1. AGILENT E5071C
NETWORK ANALYZER
2.Sporton ETS OTA Chamber

ENGINEER: JASON_LI

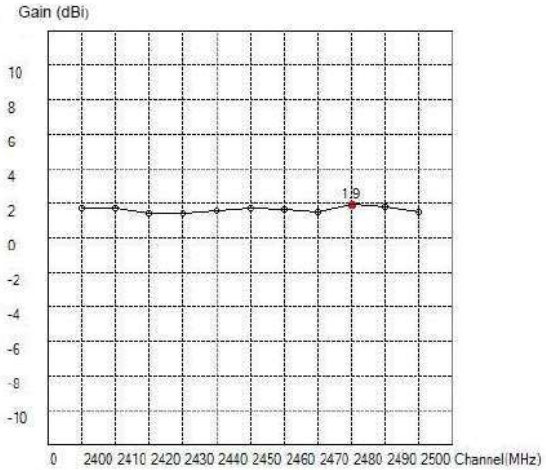
COORDINATE OF STRUCTURE:



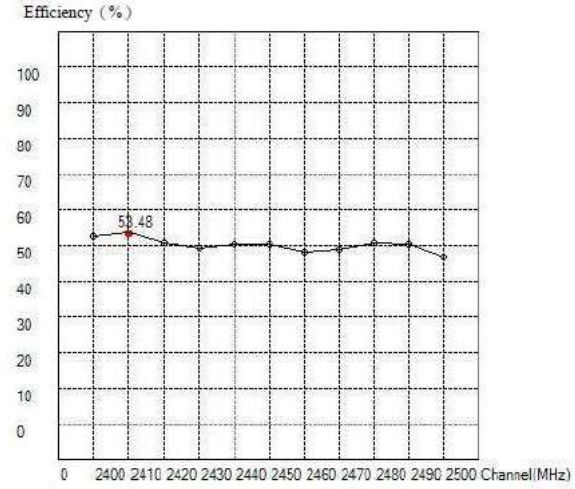
ANTENNA Return loss/Smith /vswr



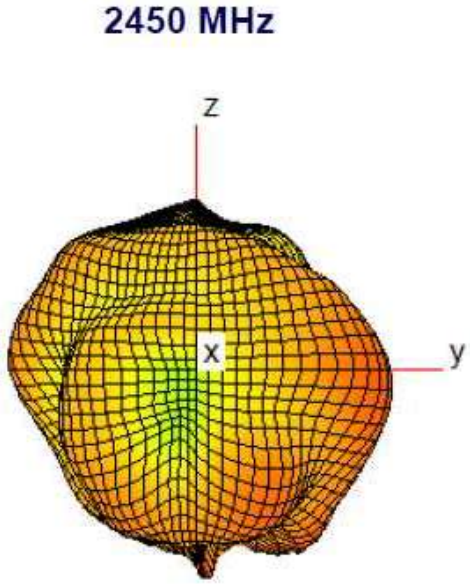
ANTENNA Gain/Efficiency

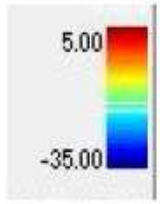


Maximum Peak Gain at 2480 MHz : 1.9 dBi

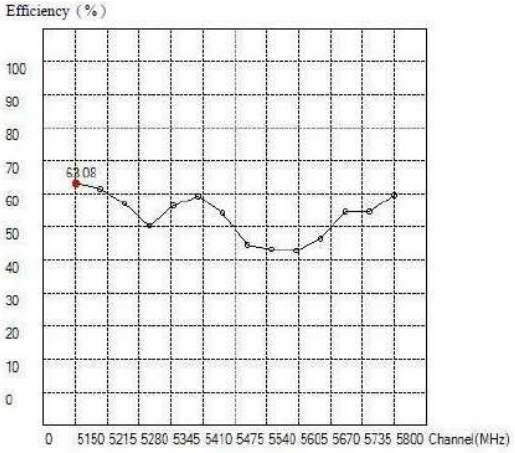


Maximum Efficiency at 2410 MHz : 53.48 %

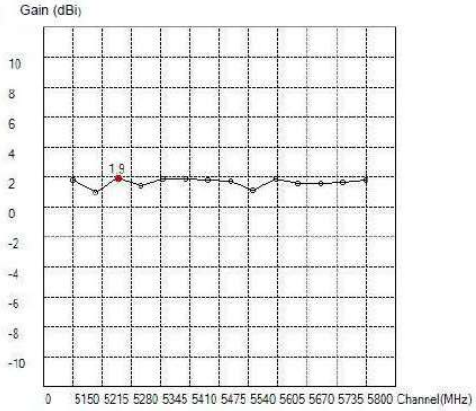




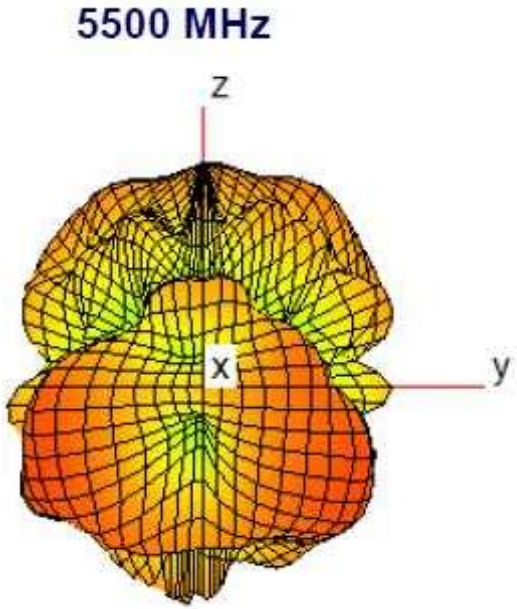
ANTENNA Gain/Efficiency

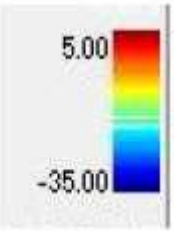


Maximum Efficiency at 5150 MHz : 63.08 %

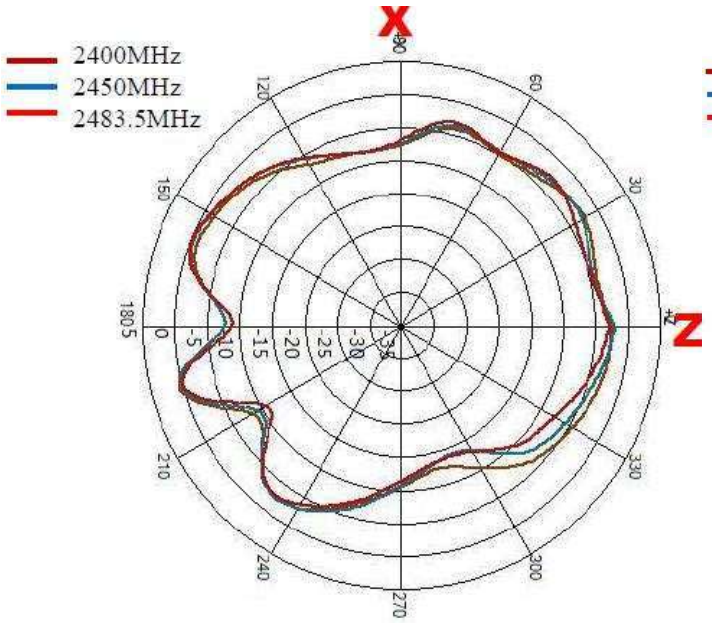


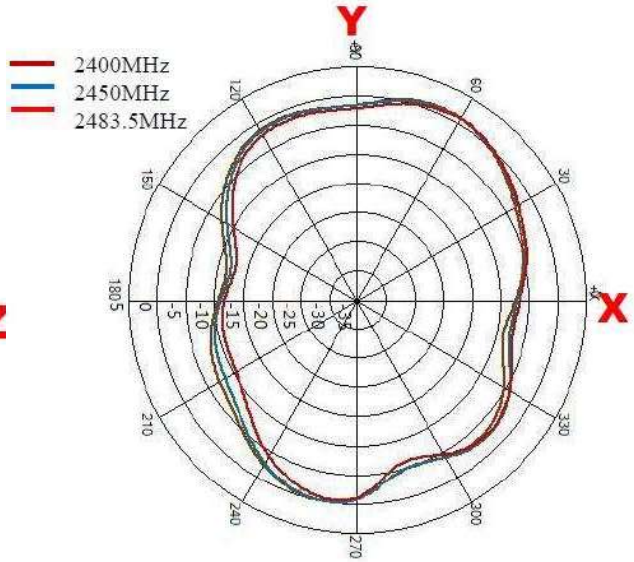
Maximum Peak Gain at 5250 MHz : 1.90 dBi

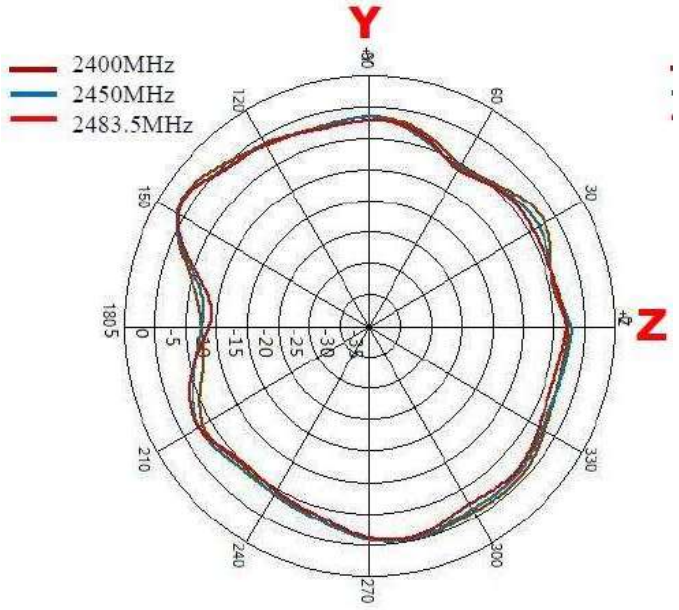




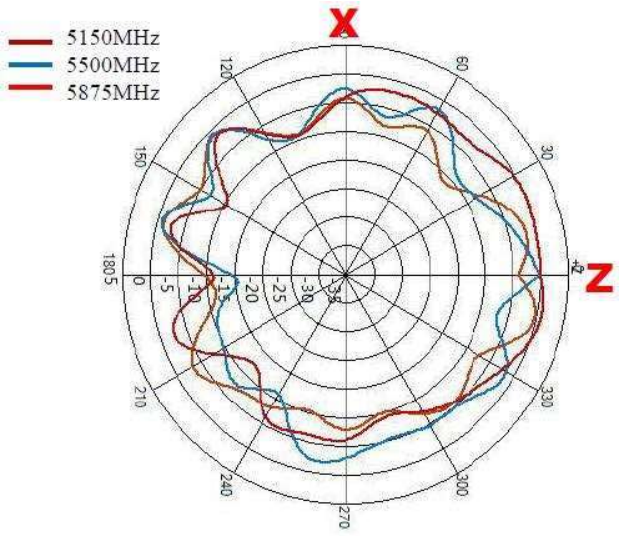
X-Z Plane/Y-X Plane/Y-Z Plane

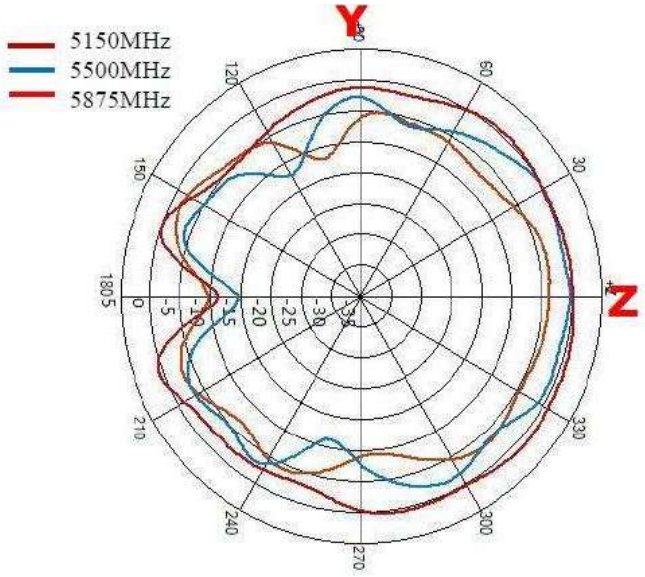


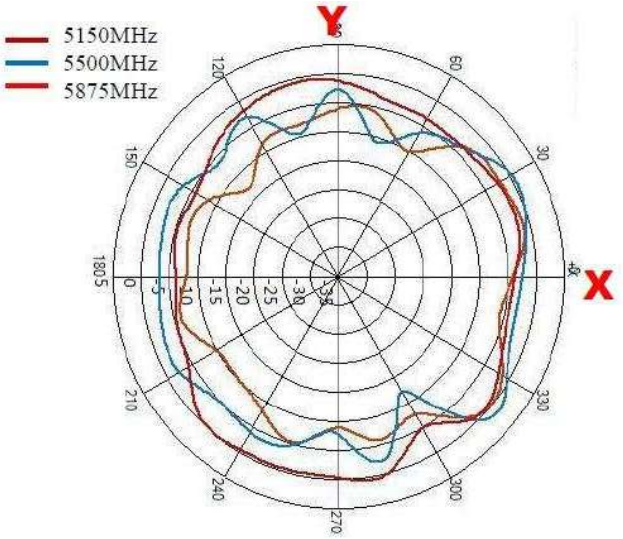




X-Z Plane/ Y-Z Plane /Y-X Plane







	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
2400	0.51	-4.08	1.34	-2.03	1.29	-2.96
2450	0.19	-4.03	1.39	-2.16	1.28	-2.99
2483.5	-0.10	-4.35	1.18	-2.57	1.24	-3.40

	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]	Max Value [dBi]	Average [dBi]
5150	-0.35	-4.89	-1.94	-4.86	-0.94	-5.33
5500	-0.06	-3.89	0.25	-3.10	0.58	-3.09
5875	0.78	-3.06	1.23	-0.63	0.05	-2.28