



Shenzhen yingjiachuang Electronic Co., Ltd

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APPROVAL SHEET

承认书

CUSTOMERNAME		
CUSTOMERP/N		
PARTNAME	FPThead shaking machine model)	
P/N	YJC-6N045-B53	
APPROVALREV.	A0	
DELIVERYDATE	2022. 08. 17	
PREPAREDBY	黄腾	
CHECKEDBY	伍龙飞	
APPROVEDBY		
CustomerApproved		
PreparedBy	CheckedBy	ApprovedBy

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Phone number: +86-755-27810060/23192199;

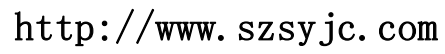
fax: +86-0755-27810057

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[illegible]

由 Autodesk 教育版产品制作

REV	DATE	DESCRIPTION	NWE
A0	2022-11-25	新版发行	特隆

二代线端
0.81黑色线
 45 ± 5
90N1023A

FPC背面贴敷 3M EVA双面胶(带3mm背胶); 25*7*4mm

40.5 ± 1
90N1023A
 13 ± 0.5

- 成品须100%测试导通OK
- 成品须100%全检OK.
- 成品采用环保制程.
- 符合ROHS要求.
- 未注公差请以一般公差为准.
- *为重点标注尺寸.

特性名称 (PART NAME)	单位 (UNIT)	比例 (SCALE)	版本 (REV) A1	数量 (SIZE)
产品规格 (GENERAL TOLERANCE) 2.4GHz 内置天线	mm		YJC-GN04S-B53	
设计 (DESIGN)			第1页,共1页	
审核 (CHECK)				
批准 (APPROV.)				

深圳市英佳创电子科技有限公司
SHENZHEN YINGJIA Chuang ELECTRONIC TECHNOLOGY CO.,LTD



电器技术参数

电性能指标		Electrical Specifications	
频率范围	2400-2500MHz	Frequency Range	2400-2500MHz
电压驻波比	<1.92	VSWR	<1.92
输入阻抗	50 Ω	Input Impedance	50 Ω
方向	全向	Direction	All
增益	dBi	Gain	dBi
机械指标		Mechanical Specifications	
天线颜色	黑色	Antenna Color	Black
接口形式	二代线端	Input connector	XD(II)
工作温度	-20℃~+70℃	Working Temperature	-20℃~+70℃
工作湿度	20%~80%	Working Humidity	20%~80%

Environment performance testing:

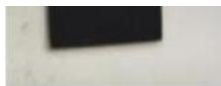
	test tempearture, humidity, and air pressure without specifying as fellows: temperature: -30℃~+80℃ relative humidity : 45%-85% air pressure:86kpa-106kpa	
	Between -20℃ and 70℃ go on 5 loop and in normal condition after 1 hour - 2 hours checking appearance quality	The size should meet the regulations and the mechanical and electrical performance requirements
	Relative humidity:95±3%, experiment temperature:40℃.after , and check its appearance after 1-2 h in normal condition	The size should meet the regulations and the mechanical and electrical performance requirements
Vibrate experiment	Oscillation range:10-55HZ, shifting amplitude: 0.35MM, acceleration: 50.0M/S, sweep loop frequency: 30 times	Electrical mechanical performance is normal
Drop experiment	Free fall from 1 meter height in the direction of mutually vertical axes for 3 times	Electrical mechanical performance is normal



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Antenna physical figure and attached location figure



Antenna performance figure:





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OTA active test data statistics:

Item	Measurement	Band	Channel	Frequency	Max	Min	Total
1	TRP	WIFI_B (11M)	1	2412	17.28	-4.18	14.02
2	TRP	WIFI_B (11M)	6	2437	17.43	-2.34	13.72
3	TRP	WIFI_B (11M)	11	2462	18.68	0.36	14.83
4	TIS(EIRP)	WIFI_B (11M)	1	2412	-62.93	-84.71	-80.34
5	TIS(EIRP)	WIFI_B (11M)	6	2437	-62.73	-82.54	-78.92
6	TIS(EIRP)	WIFI_B (11M)	11	2462	-63.63	-81.93	-78.28
7	TRP	WIFI_G (6M)	1	2412	15.20	-6.37	11.71
8	TRP	WIFI_G (6M)	6	2437	15.70	-4.34	12.04
9	TRP	WIFI_G (6M)	11	2462	16.93	-1.55	13.26
10	TIS(EIRP)	WIFI_G (54M)	1	2412	-46.62	-68.18	-64.70
11	TIS(EIRP)	WIFI_G (54M)	6	2437	-48.67	-68.85	-65.19
12	TIS(EIRP)	WIFI_G (54M)	11	2462	-50.82	-69.31	-65.66
13	TRP	WIFI_N_ISM (6.5M)	1	2412	14.96	-9.48	10.52
14	TRP	WIFI_N_ISM (6.5M)	6	2437	15.57	-12.59	11.94
15	TRP	WIFI_N_ISM (6.5M)	11	2462	16.41	-8.09	11.40

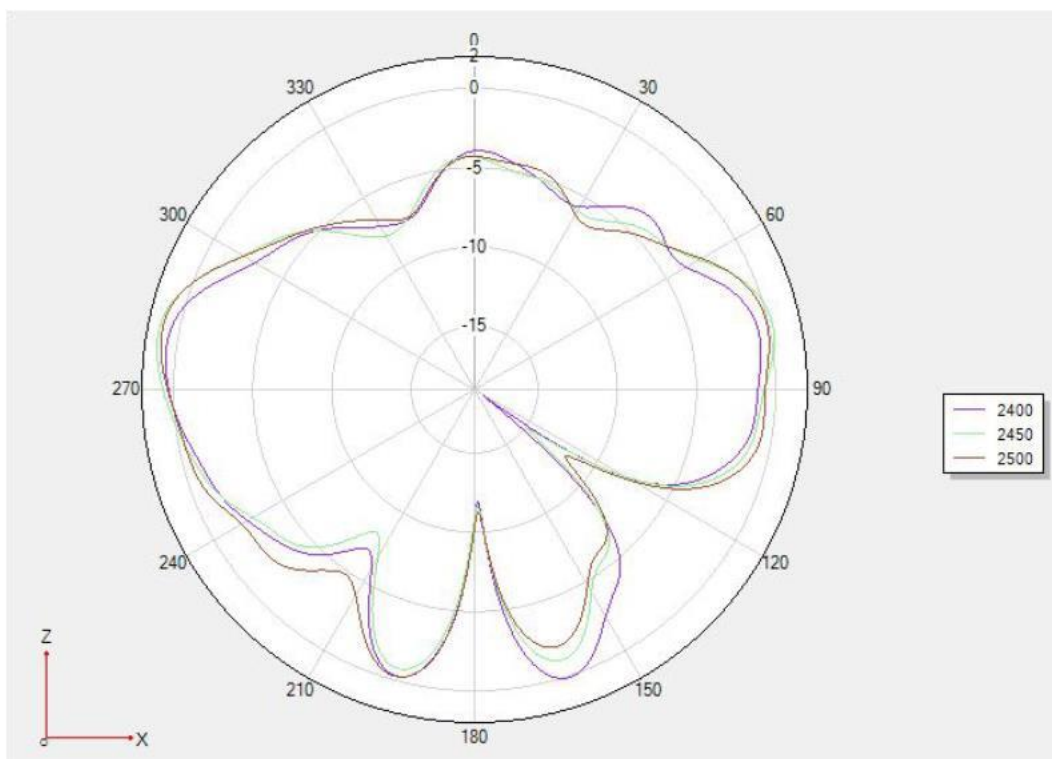


2D.3D testing data:

(2.4G testing data)

Frequency	Efficiency(%)	Gain. (dBi)
2400MHz	53.88	2.54
2410MHz	59.84	3.28
2420MHz	54.58	2.73
2430MHz	54.95	3.53
2440MHz	53.88	2.91
2450MHz	59.23	3.56
2460MHz	58.09	3.46
2470MHz	58.48	3.80
2480MHz	55.46	3.02
2490MHz	60.39	3.98
2500MHz	58.52	3.62

(Phi 0 2Dfigure)

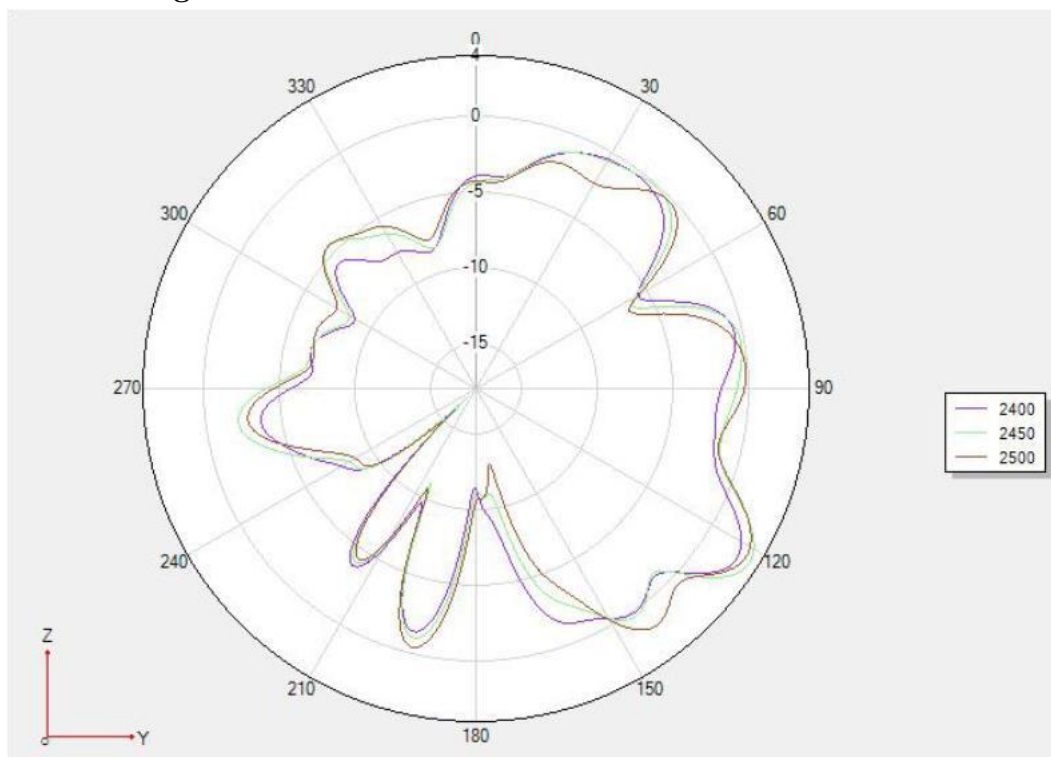




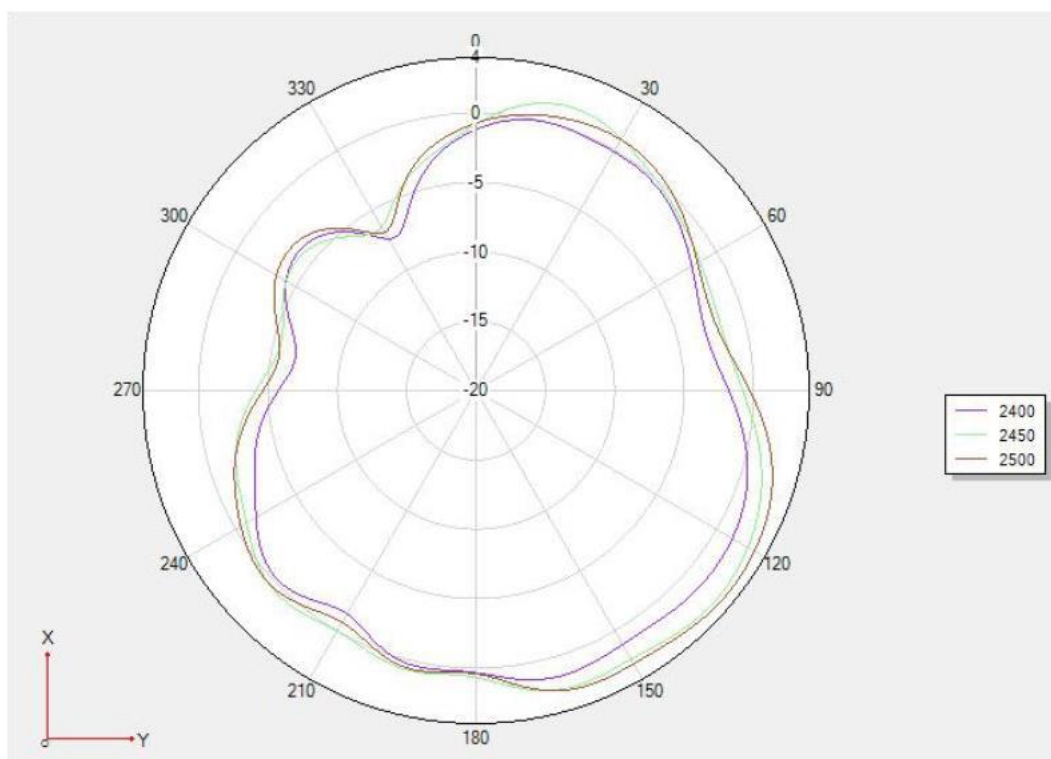
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(Phi 90 2D figure)



(Theta 90 2D figure)



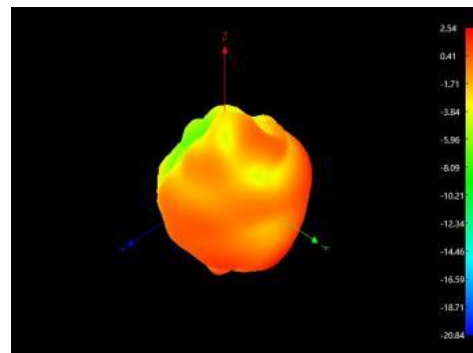
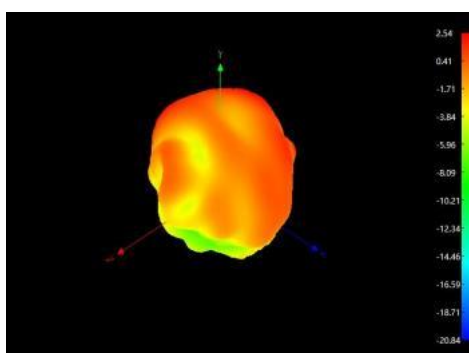
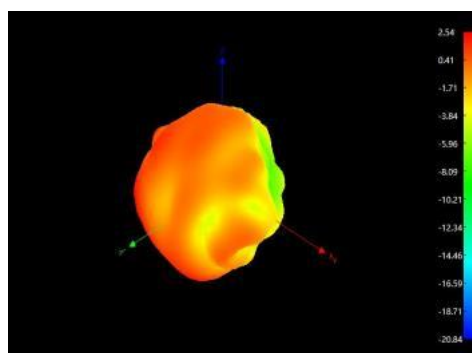


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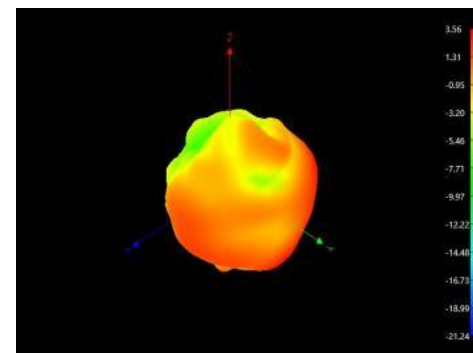
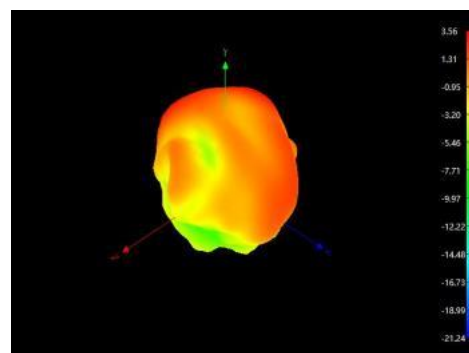
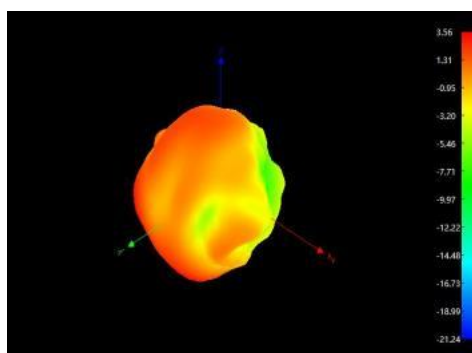
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3D testing figure

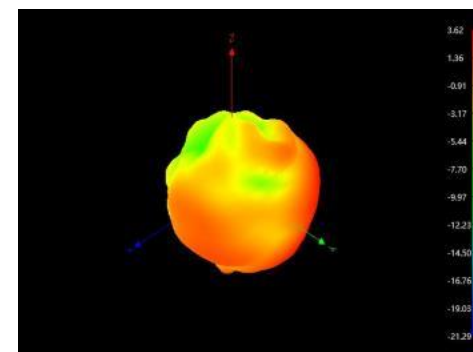
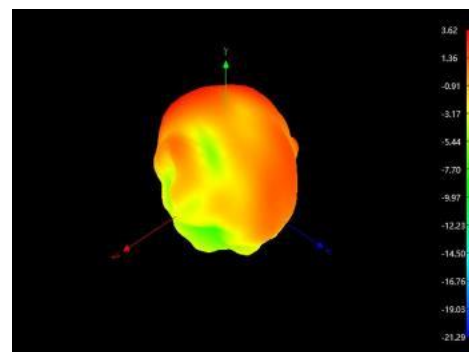
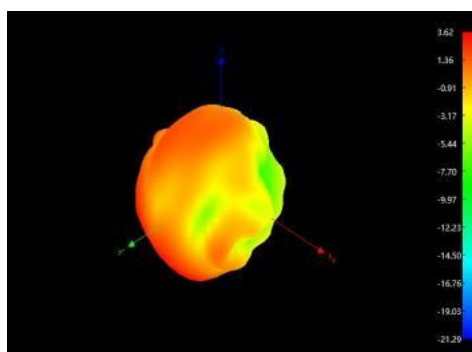
(3D 2400MHz)



(3D 2450MHz)



(3D 2500MHz)



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material RoHS table for declaration of conformity

This is to certify that the components, auxiliary materials used, and additives used in production engineering delivered to your company comply with the environmental requirements of the RoHS Restriction on the Use of Hazardous Substances Directive (RoHS command 2011/65/EC)

The report on the composition of raw materials, packaging materials, and additives used in the production process for components and auxiliary materials is as follows:

Component /Part Name	Material Composition	ICP report #	Test Org.	Test Date	ppm						PASS?
					Cd	Pb	Hg	Cr ₆₊	PBB	PBDE	PASS
FPC	FPC	SHAEC2202460504	SGS	22/02/21	ND	ND	ND	ND	ND	ND	PASS
XD (II代)	Tin phosphor bronze	CANEC2201952008	SGS	22/02/18	ND	5	ND	ND	ND	ND	PASS
	Gold- plating	A2220404860101001C	CTI	22/09/17	ND	ND	ND	ND	ND	ND	PASS
线材	RG/RF series coaxial cable	CANEC2202366903	SGS	22/02/28	ND	10	ND	ND	ND	ND	PASS