



Shenzhen Yingjia Chuang Electronic Technology Co., LTD

<http://www.szsyjc.com>

APPROVAL SHEET

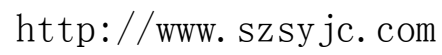
CUSTOMER NAME	OPSAT	
CUSTOMER P/N		
PART NAME	4G Black PCB built-in antenna L=80mm (Supported Devices: SC211)	
P/ N	YJC-6N080-B77	
APPROVAL REV.	A1	
DELIVERY DATE	2022.11.22	
PREPARED BY	Wu Jiaxiong	
CHECKED BY	Fang Wenfeng	
APPROVED BY	Shoreham Hotel	
Customer Approved		
Prepared By	Checked By	Approved By

Yingjia Innovation contact information (factory):

ADD: Hangzhou Office, Building A.C, Hongyu Guangming Valley, No. 11, Jiangshemagang, Shiwei Community, Matanban, Guangming District, Shenzhen City: 212, Building B, Dahua Jianghong International Innovation Park, No. 369, Internet of Things Street, Binjiang District, Hangzhou City

phone +86-755-27810060/23192199; FAX: +86-0755-27810057

Web: <http://www.szsyjc.com> E-mail: yjc@szsyjc.com

[illegible]



Product plan:

由 Autodesk 教育版产品制作

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RoHS

PCB板背面贴附EVA双面胶

1.13黑色线

1代线端

*80±3

29.9±0.3

42.4±0.3

T:0.6MM

50M1179 V1.0

REV	DATE	DESCRIPTION	NAME
A0	2022-09-02	新版发行	吴佳雄
A1			

频率范围(Frequency Range)	700-960/1710-2700MHz
增益 (Gain)	SDBI
电压驻波比(VSWR)	<5.0
极化 (Polarization)	Linear, Vertical
最大功率(Max power rating)	50W
特征阻抗 (Impedance)	50Ω

要求: 1. 成品须100%测试导通OK
2. 成品须100%全检OK.
3. 采用环保制程. 成品
4. 符合ROHS要求.
5. 未注公差请以一般公差为准.
6. *为重点标注尺寸.

外部测试物料标示卡
与ROHS标签各1PCS

零件名称 (PART NAME)	测试图	单位 (UNIT)	比例 (SCALE)	版本 (REV)	数量 (SIZE)
客户料号 (CDS NO.)	49 黑色PCB板外置天线	XD 1.13mm L=80MM		YJC-6N080-B77	
设计	吴佳雄	第1页,共1页		首次日期 (ORIGINAL DATE)	2022-09-02
审核	方文峰				
批准					

深圳英佳创电子科技有限公司
SHENZHEN YINGJIA CHUANG ELECTRONIC CO., LTD

由 Autodesk 教育版产品制作



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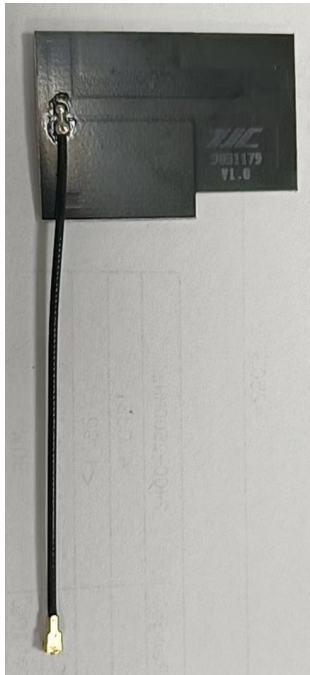
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Antenna technical parameters and environmental testing:

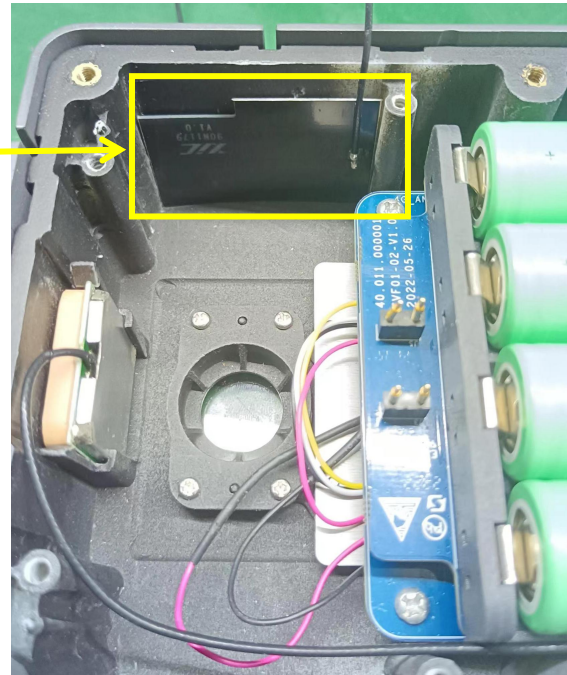
Electrical technical parameters			
Mechanical Specifications		Electrical Specifications	
Antenna Color	BLACK	Frequency Range	700-960/1710-2700MHz
Input connector	XD	VSWR	<5.0
Cable length	80mm	Input Impedance	50 Ω
Working Temperature	-20℃~+70℃	Direction	All
Working Humidity	20%~80%	Gain	5.71 dBi



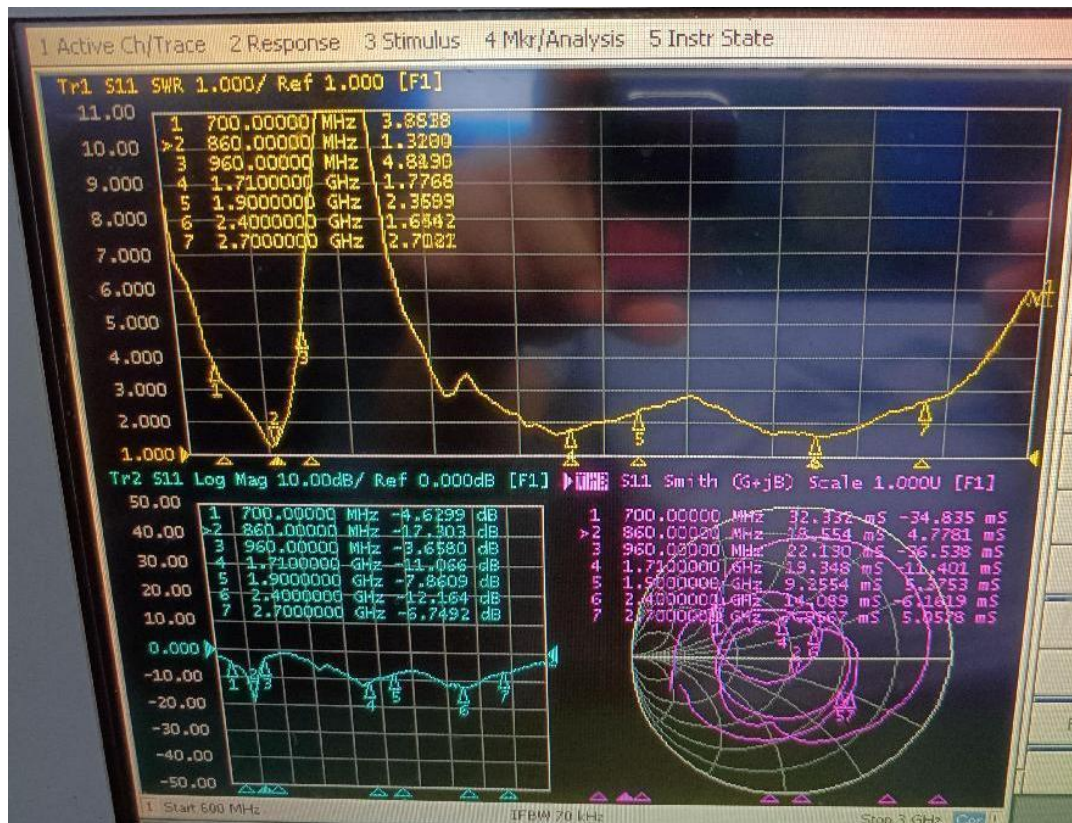
Antenna physical picture and attached location map:



The antenna is attached to the location map



Antenna performance test diagram:

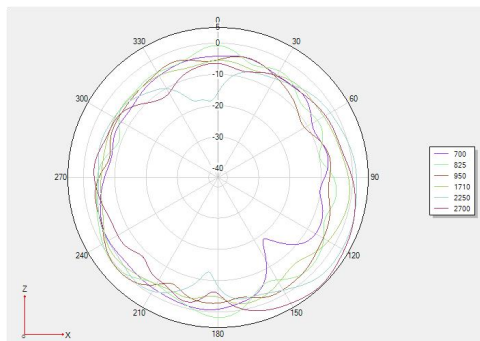




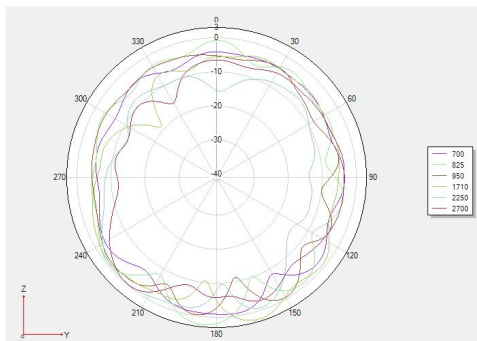
2D、3D test data (4G):

Frequency	Efficiency (%)	Gain. (dBi)
700MHz	26.66	-0.21
725MHz	23.57	-1.14
750MHz	25.84	-0.47
775MHz	28.12	1.42
800MHz	31.05	1.32
825MHz	35.81	2.39
850MHz	40.74	2.18
875MHz	45.5	2.23
890MHz	47.1	1.57
925MHz	41.69	1.71
950MHz	37.15	1.85
1710MHz	46.13	3.63
1800MHz	43.95	2.61
1890MHz	42.27	2.18
1980MHz	35.08	1.34
2070MHz	36.39	1.34
2160MHz	43.15	1.58
2250MHz	52.24	4.02
2340MHz	54.33	3.96
2430MHz	55.08	3.64
2520MHz	57.68	5.71
2610MHz	49.55	5
2700MHz	45.6	4.63

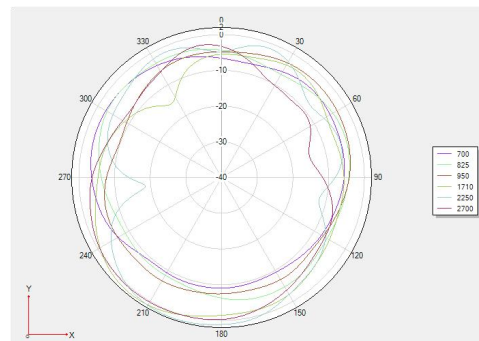
Phi 0 2D 图:



Phi 90 2D 图

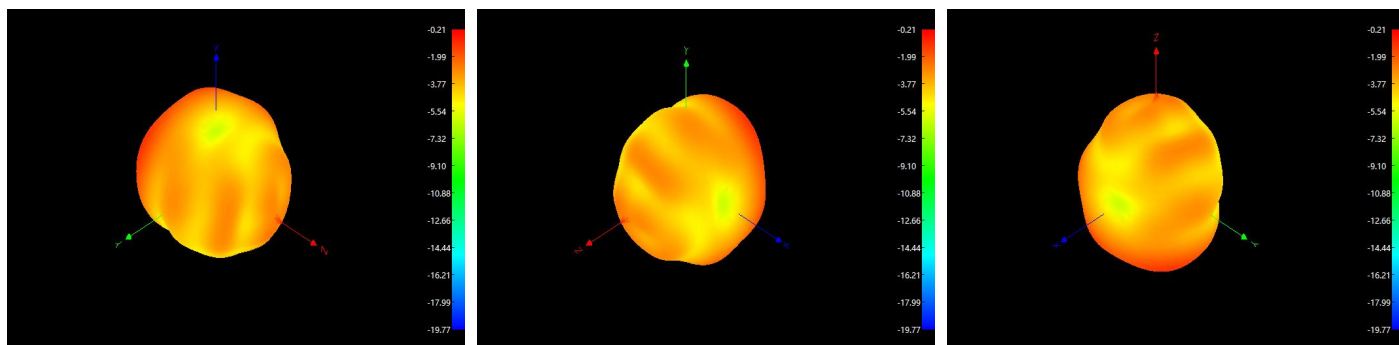


Theta 90 2D 图

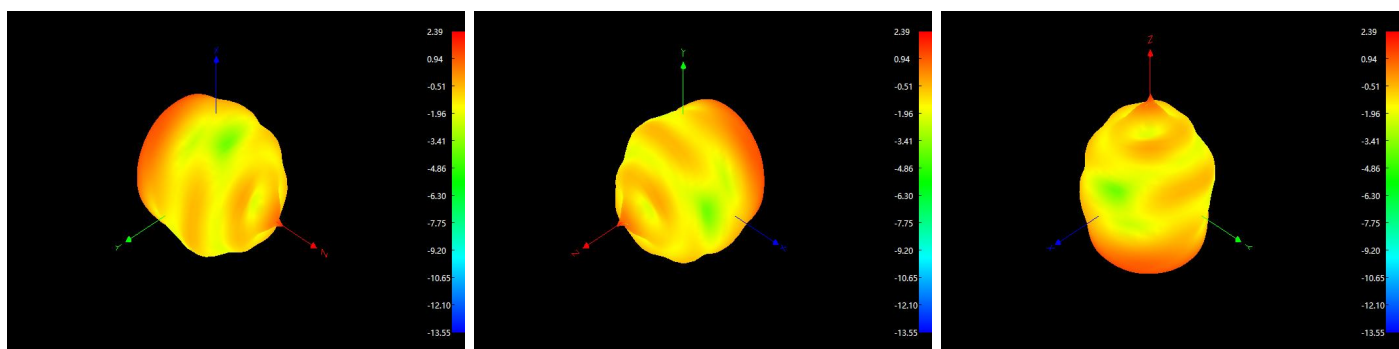




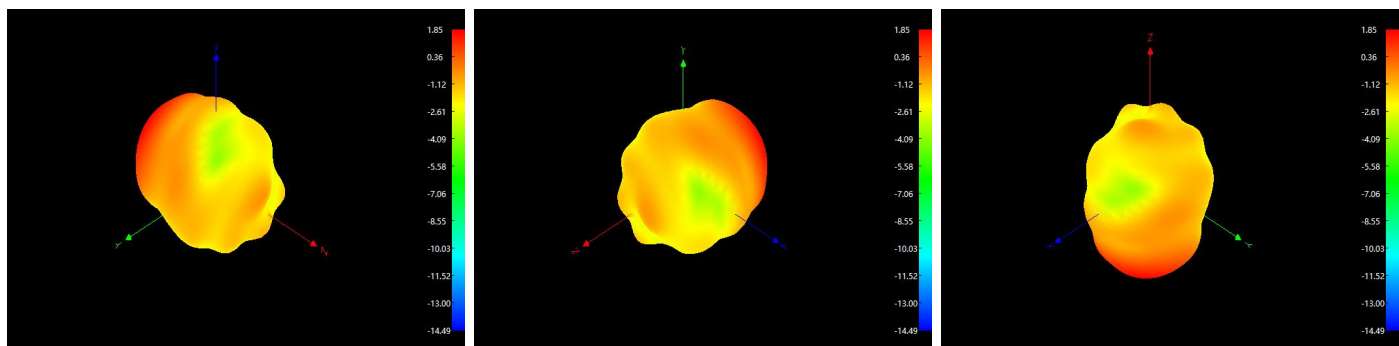
3D 700



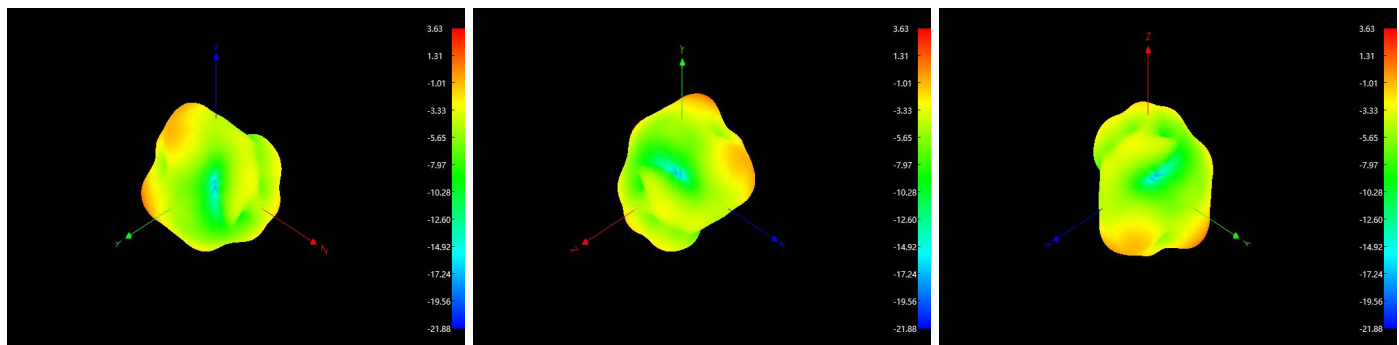
3D 825



3D 950



3D 1710

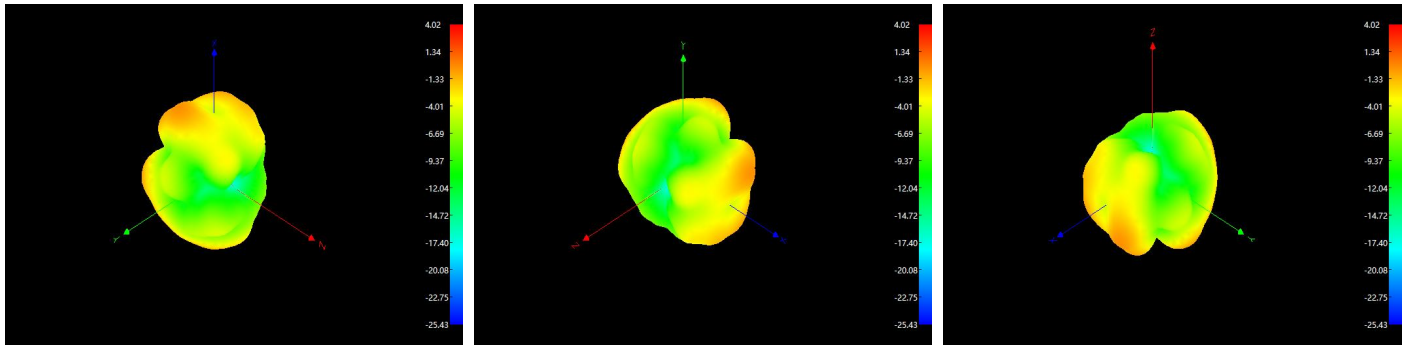




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3D 2250



3D 2700

