深圳市云顶通讯电子有限公司

Shenzhen Yunding Communication Electronics Co., Ltd
Room 3015 Jinchi Center, No.1 Sanwei South Road, Xixiang, Bao'an District, Shenzhen, China

TEL：+86 0755-23073599　　FAX：+86 0755-23097189　　E-mail:wht0809@163.com

承認書
APPROVAL

客　　户 CUSTOMER:	世野
品 名 规 格 DESCRIPTION:	**IPEX-WIFI2.4G/5G-PCB-1.13 黑-L30**
料　　号 PART　NO.:	YDWIFIPL30I
客 户 料 号 CUS PART NO.:	
日　　期 D A T E:	2017.03.07

云顶呈样签章

工　程 ENGINEERING DEPARTMENT	品　　保 Q C DEPARTMENT	业　务 SALES DEPARTMENT
吴淑仪	刘丽	王洪涛

客户承认签章

工　程 ENGINEERING DEPARTMENT	品　　保 Q C DEPARTMENT	采　购 PURCHASING DEPARTMENT

联系电话：0755 23073599　　15017941162

※ 承认书一式五份，惠蒙贵司承认签章

※ Approval in duplicate, please signed by your company.

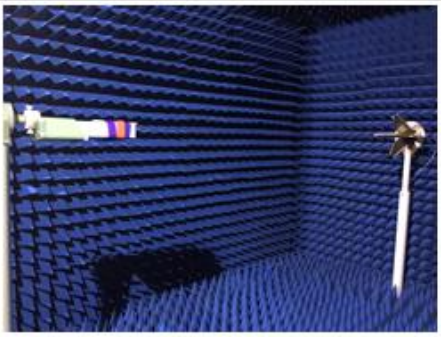
地址:深圳市宝安区宝安大道 4315 号文浩商务大厦 A602

深圳市云顶通讯电子有限公司

TEL：+86 0755-23073599 FAX：+86 0755-23097189 E-mail:wht0809@163.com

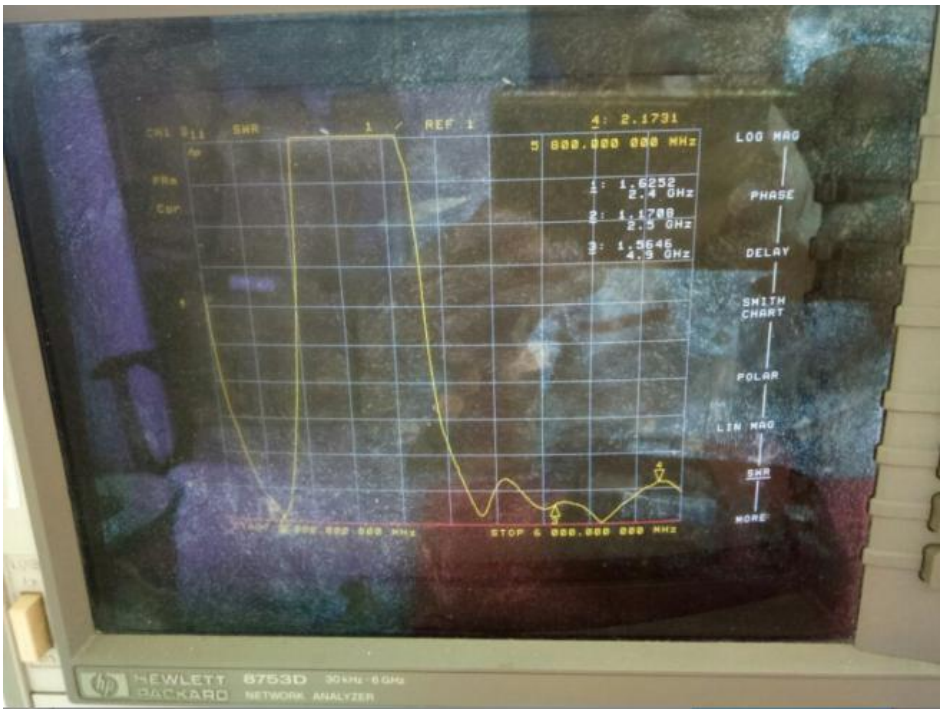
1.Test the items and the equipment

	测试项目	设备
1. S11 参数 （S-parameter）	1. 回波损耗 （Return Loss） 2. 电压驻波比（VSWR）	网络分析仪: Agilent E5071B HP 8753D
2. 有源测试 （Active ）	1. 发射功率 （TRP） 2. 接收灵敏度（TIS）	1. 暗室：ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2.综合测试仪: Agilent 8960 E5515B ×2 StarPoint SP6011
3.无源测试 （Passive）	1.天线增益 （Gain）2.天线效率 （Efficiency）	1. 暗室：ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. 网络分析仪：Agilent E5071B HP 8753D



2.WiFi antenna performance

SWR

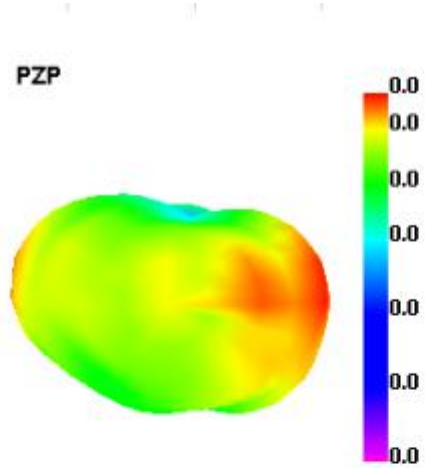


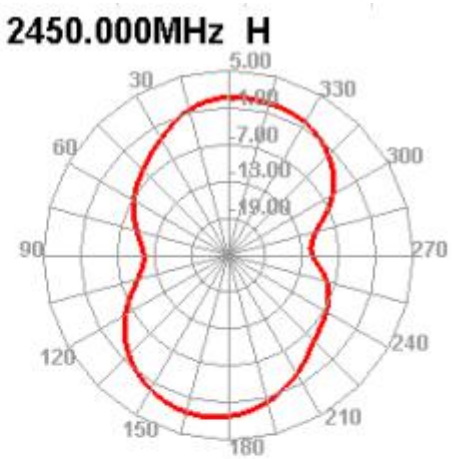
3.Passive data：

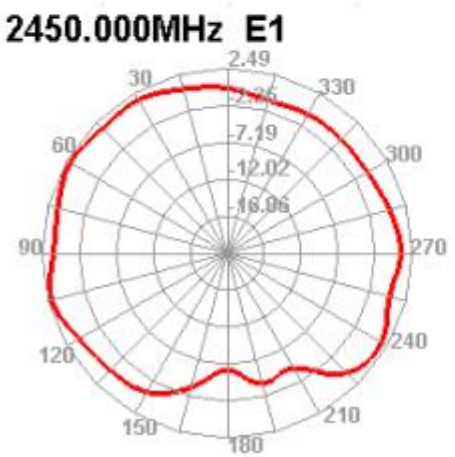
Frequency [MHz]	Efficiency	Efficiency [dB]
2400	39.70%	-4.01
2420	45.00%	-3.47
2440	42.10%	-3.76
2450	42.80%	-3.69
2460	44.80%	-3.49
2480	41.90%	-3.78
2500	42.50%	-3.72
Average	42.69%	-3.70

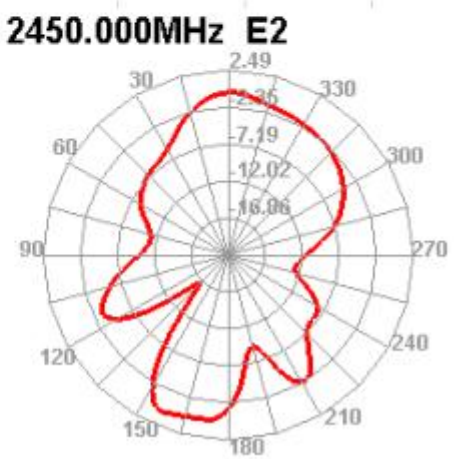
Frequency [MHz]	Efficiency	Efficiency [dB]
5700	45.33%	-3.44
5720	46.36%	-3.34
5740	48.55%	-3.14
5760	47.22%	-3.26
5780	44.85%	-3.48
5800	43.16%	-3.65
Average	45.91%	-3.38

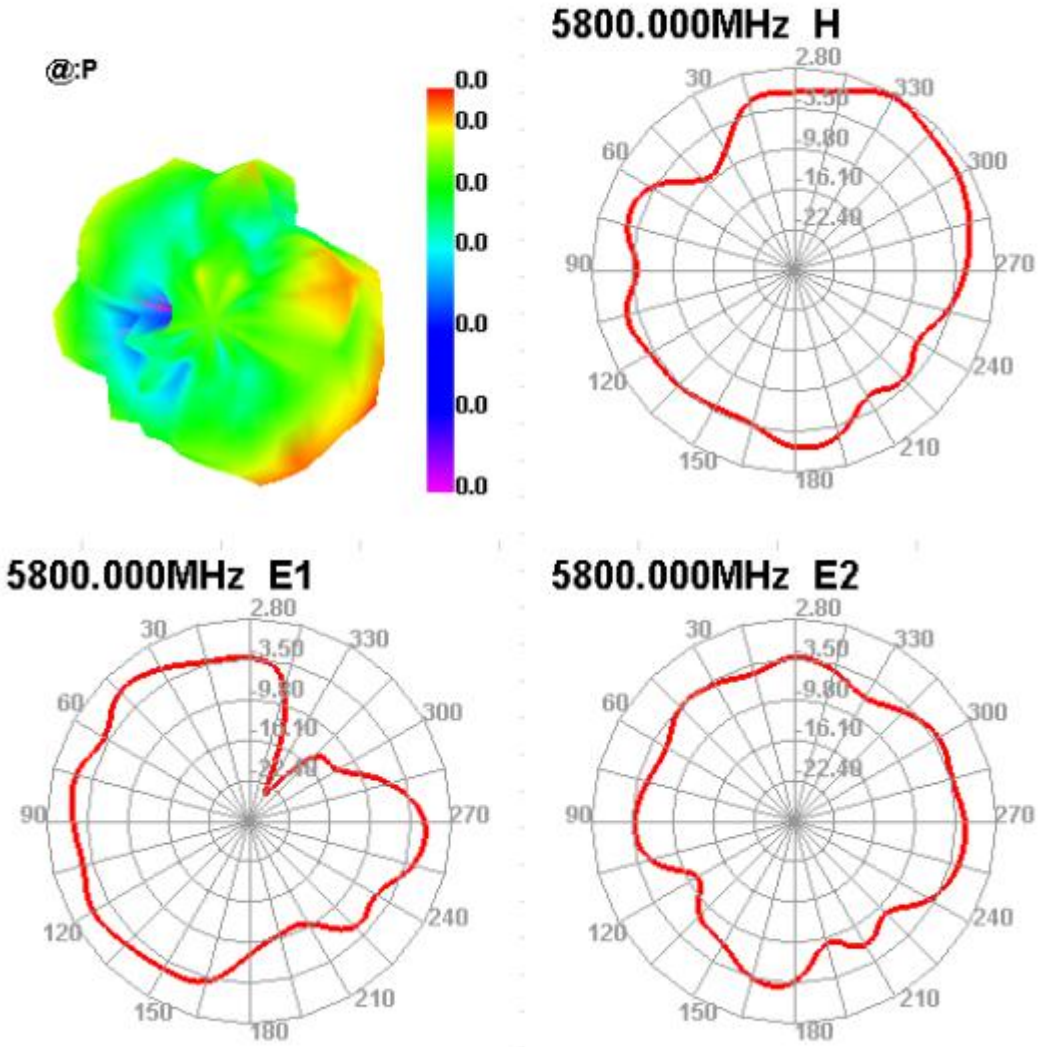
4.Radiation Pattern



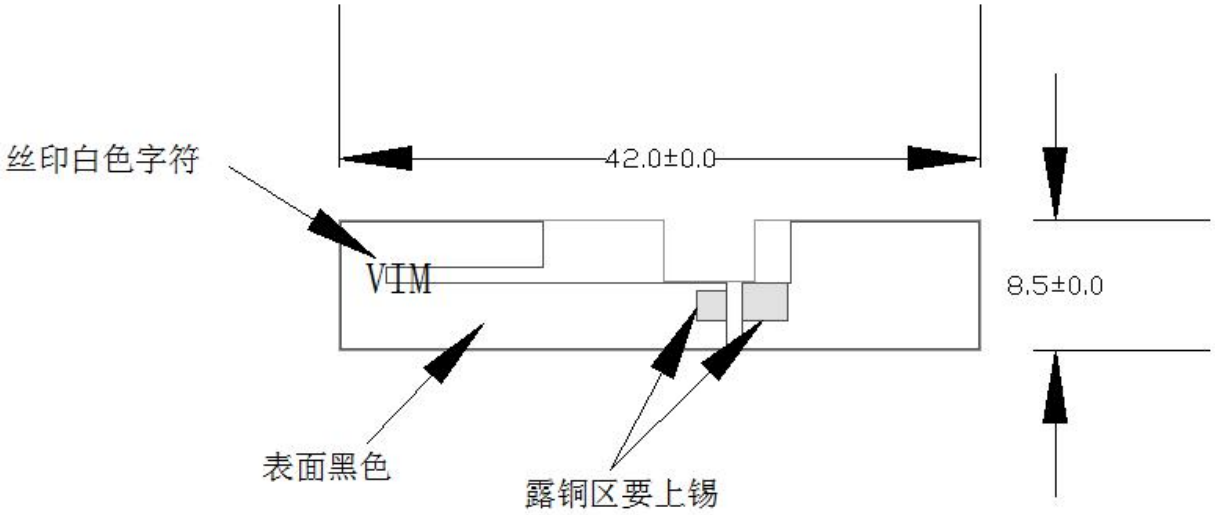


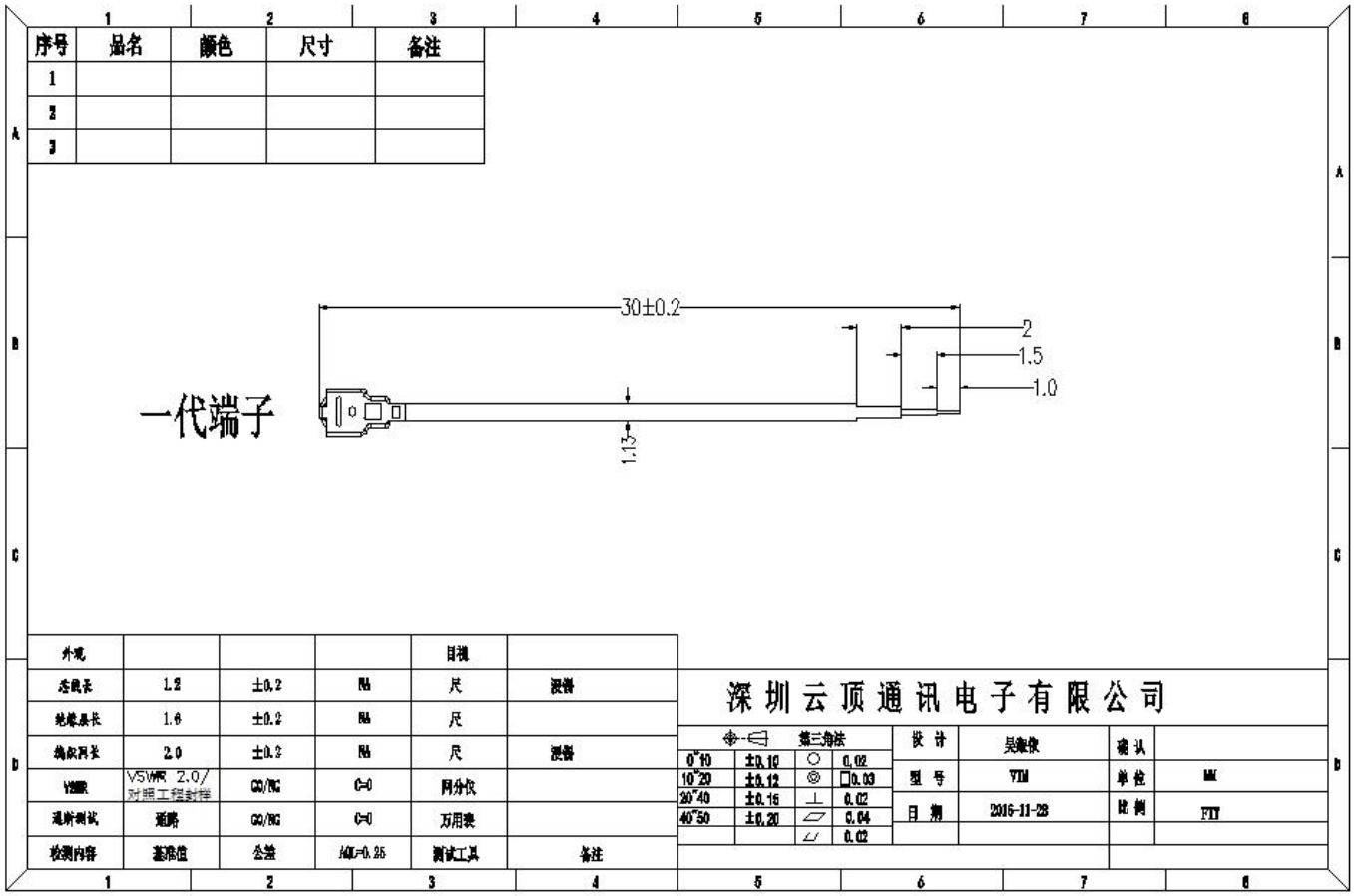





@:P
0.0
0.0
0.0
0.0
0.0
0.0
0.0
5800.000MHz H
5800.000MHz E1
5800.000MHz E2
2.80
3.50
9.80
16.10
22.40
30
60
90
120
150
180
210
240
270
300
330

5.Antenna structure diagram：



注：表面为黑色，材质为PCB，厚度0.5MM

6.Coaxial specification of darkchamber：