Shenzhen Yangyue Electronic Communication Technology Co., Ltd.

		瑞益成科技 henzhen Candour						
	月		Ţ					
<mark>产</mark> 品描述	生产厂家: 深圳市扬跃电子遥	信科技有限公司	规格型号/版本:	1.				
	供应商产品名称: 2.4/5.8Gh; 2DB増益, 87	:双频可折弯胶棒天线 效率以上, 195MM长	瑞益成产品参考	·켈북: 424-00004-0300				
	供应商物料代码:YY-R01300-(	0103-B0	瑞益成物料代码	ł				
附件:	■ 规格书 ■ 二	1程图纸	□ 梓品	□ RoHS报告				
	□ CPK 报告 □ F	AI全尺寸报告	■ 可靠性测试排	报告□ RoHS、无卤物质成分管控表				
	口 制程管制图 口 相	材质证明书	□ 包裝方式	口 安规报告(可选)				
	□ 无卤保证声明书(可选) □ 无卤检测报告(可选)							
	备注: 1. RoHS报告和无卤检测报告可提供电子档,由采购部和SQE保存,签承认书前必须提供: 2. 可选项针对不同客户要求提供,除包材外其他客户必须提供。							
and a second	3. 包材由包装工程师,项目经							
供应商签核	制作: 门志红	审核: Tony		批准:杨劍與				
技术确认栏	结构/堆叠:		软件(选鉴):					
	硬件(选签):		项目经理:					
反量确认	DQE工程师:		SQE工程师:					
承认条件:	口承认	□ 拒绝承认	14 (4)					
	□条件承认 需請	起条件:						
	□临时承认 限量	Pcs 采购						
分发部门:	□采购 □硬件 □\$	次件 □ 产品部器件和	↓□ 战略合作商:	<u></u>				
	口品版 口容户 口加	ロエビ 口供应商	□其他					
 €单编号: FOI	L	保存期降	艮: 至物料停用	后一年				

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#### **Sample Photo**



A. Electrical Characteristics	5 
Frequency	2400 ~ 2500 MHz
	5150 ~ 5850 MHz
V.S.W.R.	<= 2.0 @ 2400 ~ 2500 MHz
	<= 2.0 @ 5150 ~ 5850 MHz
Antenna Gain	4.1 dBi @ 2400 ~ 2500 MHz
	5.2 dBi @ 5150 ~ 5850 MHz
Efficiency	92.21 % @ 2400 ~ 2500 MHz
	91.65 % @ 5150 ~ 5850 MHz
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Cl	haracteristics
Material of Radiator	Cu
Material of Plastic	TPEE / ABS
Cable Type	RG-178U
Connector Type	SMA Male Reverse
C. Environmental	
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C

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#### **Revision History**

Date	Revision	Description of Changes
2019-12-21	RA	Measured with 2.4GHz/5.8GHZ Antenna sample.

#### 1 Technical Summary

This report summarizes the electrical results of the proposed antenna to support the 2.4GHz/5.8GHZ Antenna program. We test the antenna with the latest version handset. And it seems to be acceptable.

## 2 General Description

#### 2.1 Components/Part revisions

VSWR: Voltage Standing Wave Rate.

## 3 Mechanical Description

## 4 Electrical Performance

#### 4.1 Set-up

#### 4.1.1 VSWR

VSWR measurements (S11) were performed using an Agilent 8753D Network Analyzer and the previously described test fixture. Coaxial chokes were used to mitigate surface currents on the outside of the cabling. The testing was performed in free space.

#### 4.1.2 Gain & Radiation Patterns

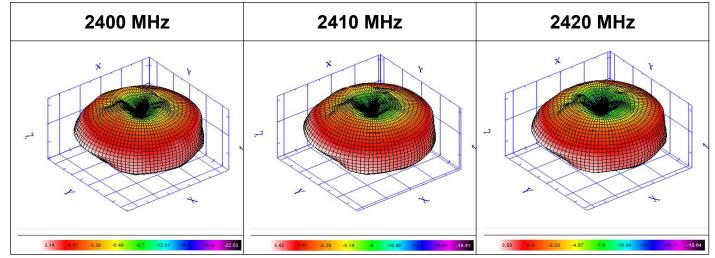
The gain of the antenna was measured in the Lxc's anechoic chamber. Coaxial chokes on the feed cable were used to mitigate surface currents. The chamber provides less than -30 dB reflectivity from 300 MHz through 3 GHz and an 18" diameter spherical quite zone. The measurement results are calibrated using both dipole and leaky wave horn standards.

#### 4.1.3 Matching Circuit Description

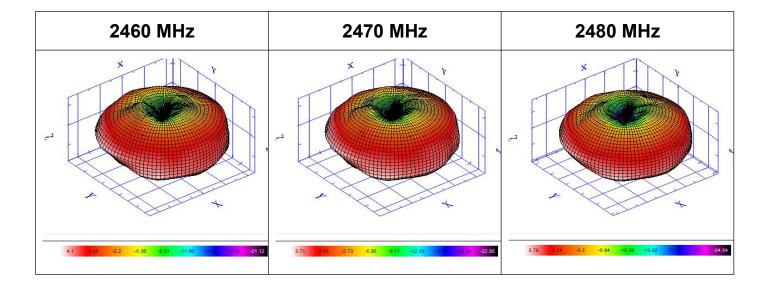
No changed..



#### 5. Antenna - Radiation Pattern Test Data

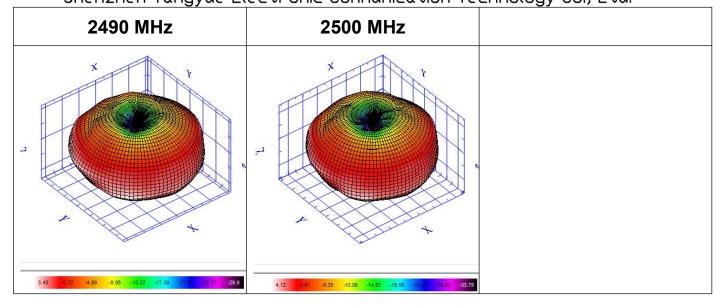


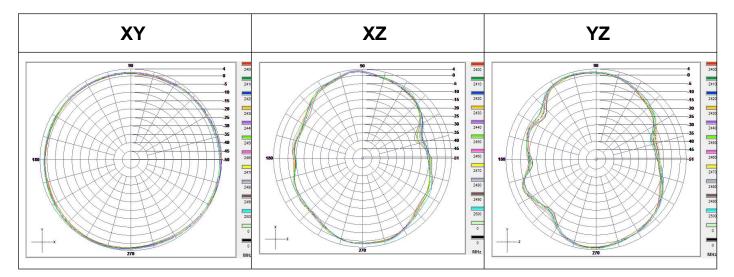
2430 MHz	2440 MHz	2450 MHz
3.66 0.8 -1.86 -4.61 <mark>-7.37 -10.13 -12.89 -15.65 -18.41</mark>	3.92 0.82 -2.27 -5.37 <mark>-8.48 -11.58 -14.68 -17.74 -</mark> 20.84	3.69 0.66 -2.37 -5.41 <mark>-8.44 -11.47 -14.1 -17.</mark> 53 -20.56



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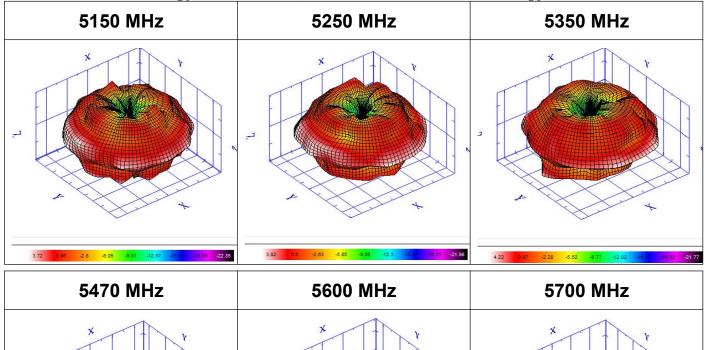
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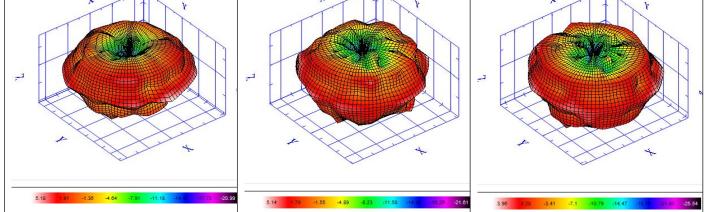


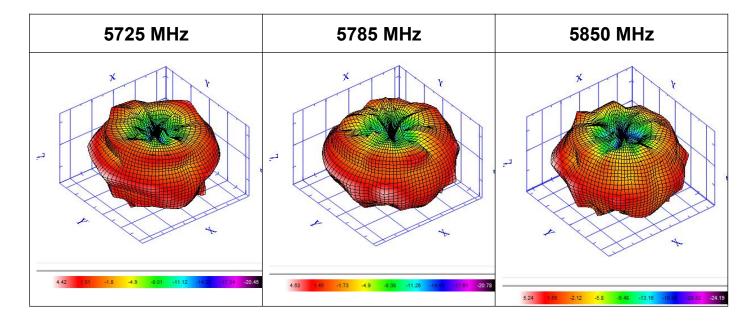


Frequency	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
E-Total Peak Gain (dBi)	3.14	3.42	3.83	3.66	3.92	3.69	4.1	3.71	3. 78	3, 45	4.12
Efficiency (%)	76.03	82.61	87.56	88.47	92.57	89	92.21	88.51	88.01	86.13	92.16
Average Gain (dB)	-1.19	-0.83	-0.58	-0.53	-0.34	-0.51	-0.35	-0.53	-0.55	-0.65	-0.35

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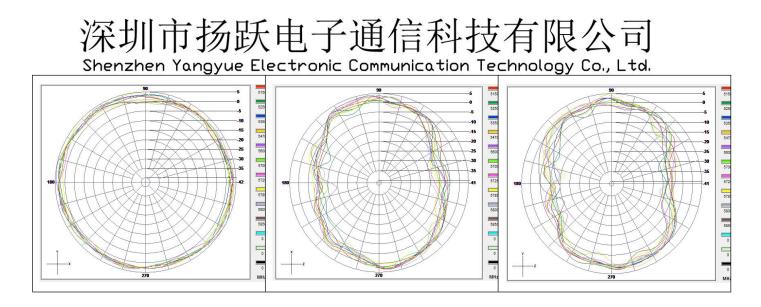






XY	XZ	YZ
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Frequency	5150	5250	5350	5470	5600	5700	5725	5785	5800	5850
E-Total Peak Gain (dBi)	3.72	3.82	4.22	5.18	5.14	3.96	4.42	4.63	4.43	5.24
Efficiency (%)	86.86	83.04	81.69	88.54	89.23	82.14	88.87	87.4	91.65	85.34
Average Gain (dB)	-0.61	-0.81	-0.88	-0.53	-0.5	-0.85	-0.51	-0.58	-0.38	-0.69

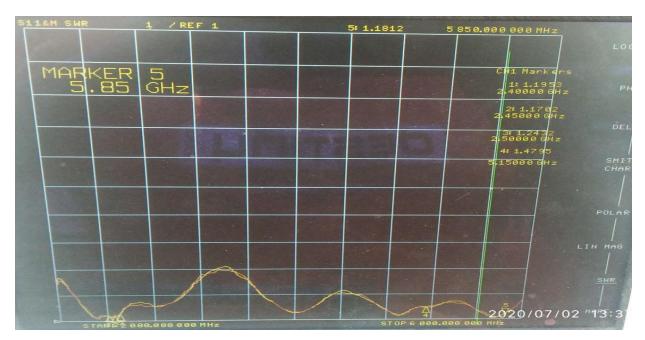
## 6.Plots

#### VSWR

注: 驻波系数的标准值 Shenzhen Yangyue Electronic Communication Technology Co., Ltd Address: No. 6 Jianshe Road, Daning Community, Humen Town, Dongguan City.

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注:回 准值

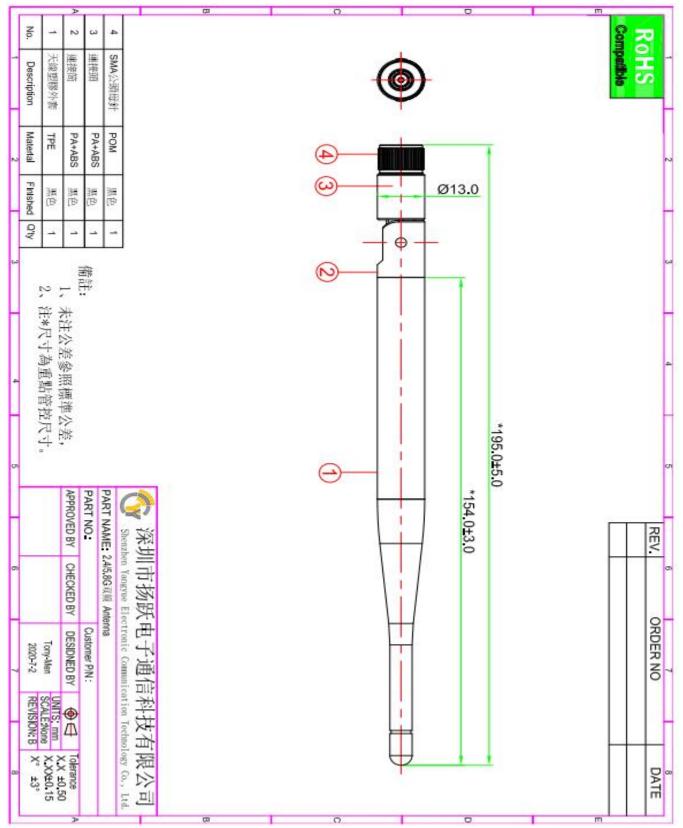




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#### 7 Mechanical drawing



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## 7 Reliability tests

#### 7.1 Test content

No	试验项目	试验方法	判定基准
1	盐水喷雾试验	把盐浓度 5%的溶液喷 雾 48HR	不能有变色, 歪(变形) 脱落 等的缺点 腐蚀面积不能过大
	<i>3.</i>	*	A.

#### 7.2 Test results

NO	样品数	试验期间	实验结果	备注
1	10	24 小时	ОК	
2	10	48 小时	ОК	技术等级为 9 级 腐蚀<0.4mm
		+	8.7	

## 8 Conclusion

以上数据表明此 2.4 GHz/5.8 GHZ 天线参数均已达标。性能以装机后的实际使用效果为准。

From the above test results, we can know the electrical performance of the antenna is seems good.

Shenzhen Yangyue Electronic Communication Technology Co., Ltd, look forward to your confirmation,

thank you for your cooperation !