SPECIFICATION

SHEET FOR APPROVAL

（Revision：R：A4）

	CUSTOMER(客户名称)	高盛达	
	CS P/N(客户机种)	WC0F	
	PART NAME(品名)	WIFI Antenna	
	FREQUENCY(频率)	2.4~2.5G/5.15-5.85G	
	ZTX NO.(物料编号)	1.01.00636	G.5.13.WC0FXXXXXX
	DATE(日期)	2019-10-09	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark(备注)：

Sign(客户确认签字盖章)： _____

ZHONG TIAN XUN TECHNOLOGY CO., LTD				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		黄小宇	李方森	

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Revision history

版本	日期	状态
A1	2014-11-13	制定承认书
A2	2016-10-25	优化结构
A3	2017-03-06	调整长度管控尺寸
A4	2017-09-14	更改包装材质

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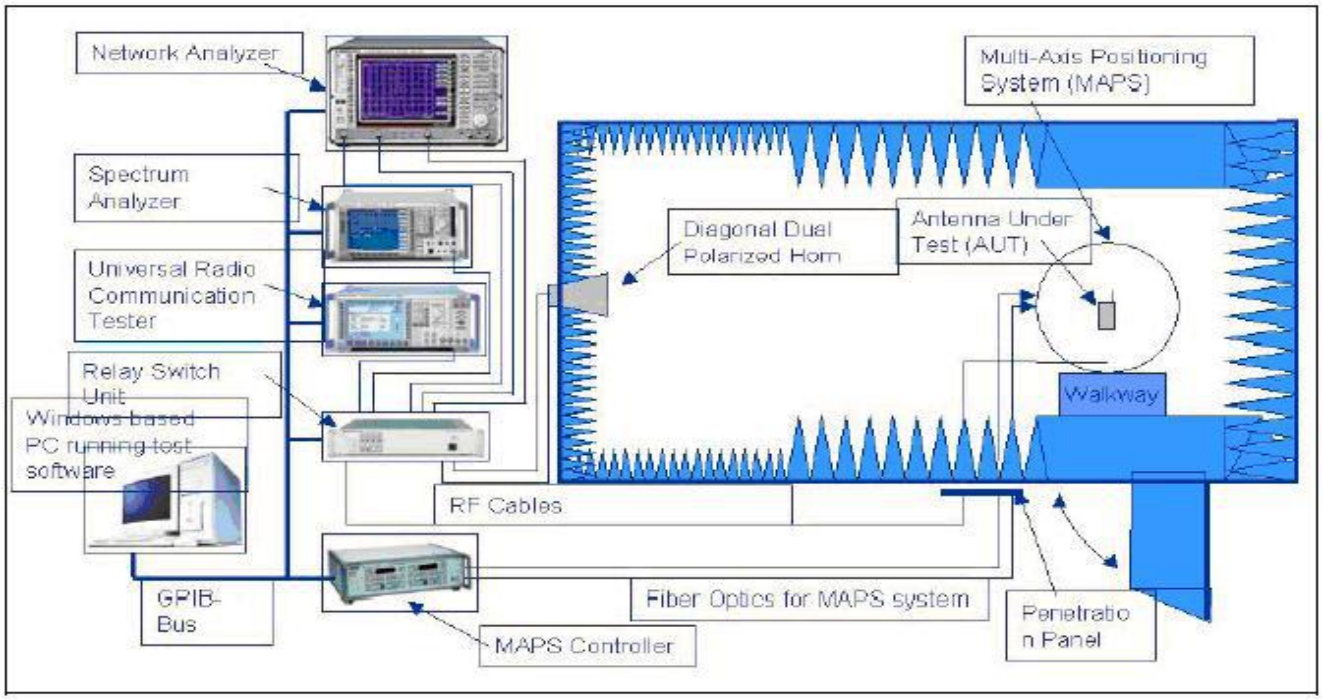
1. Test equipment

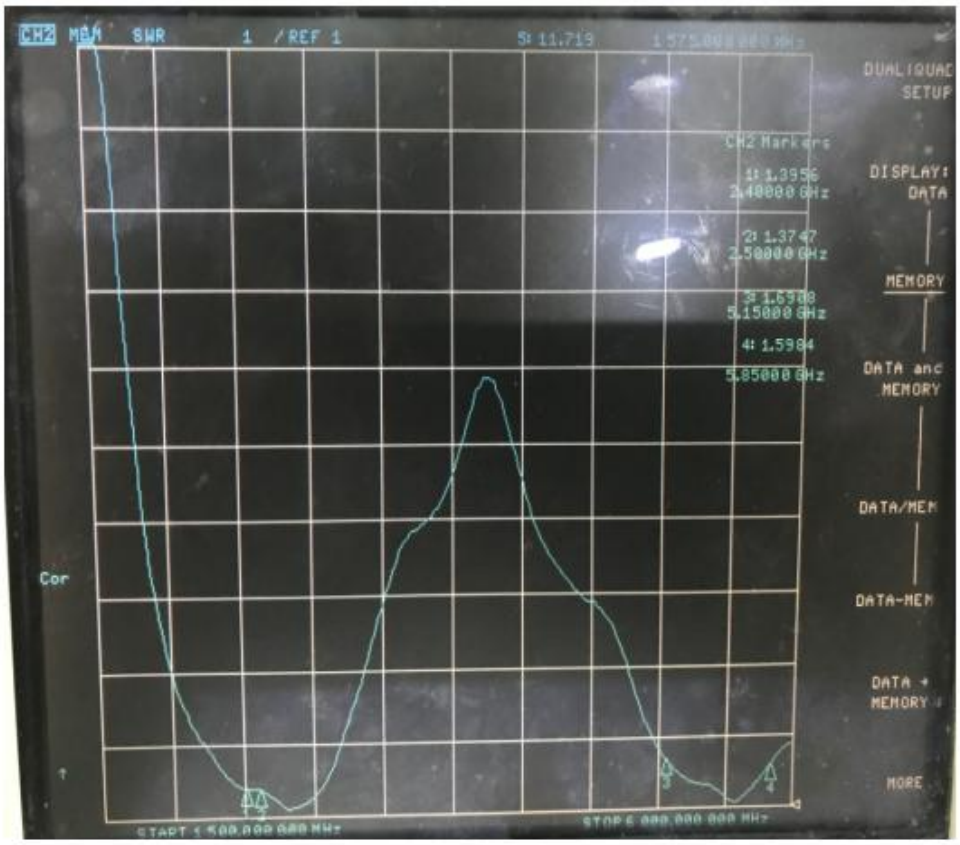


2.Product figure

3.Antenna test data

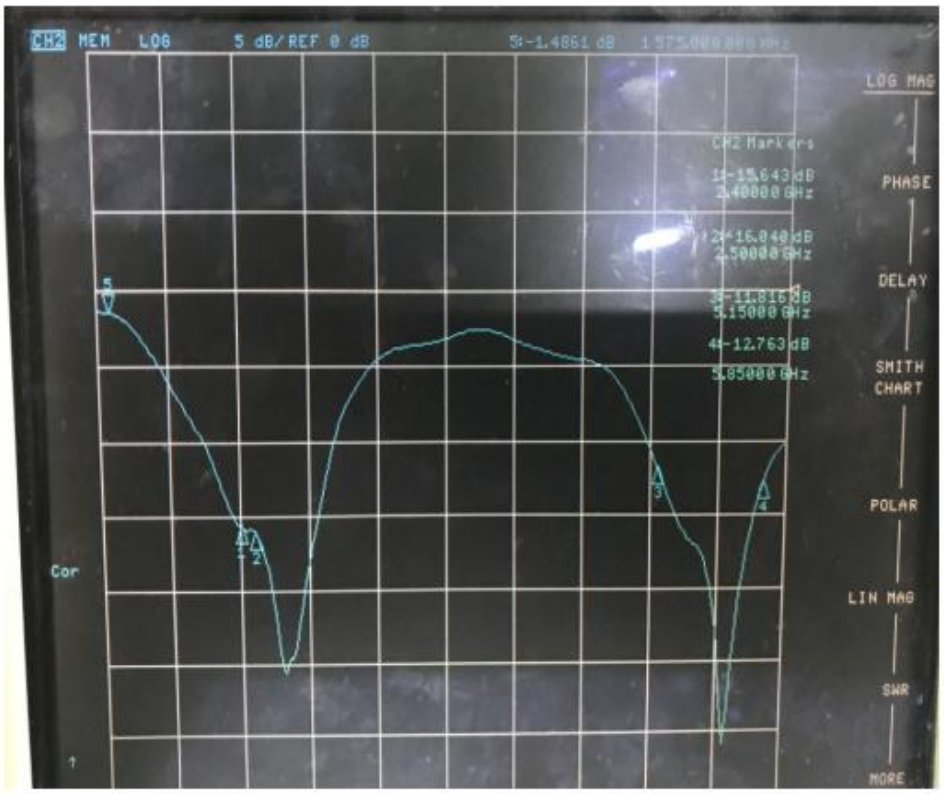
3-1 VSWR

2.4G	2.5G	5.15G	5.85G
1.39	1.37	1.69	1.59

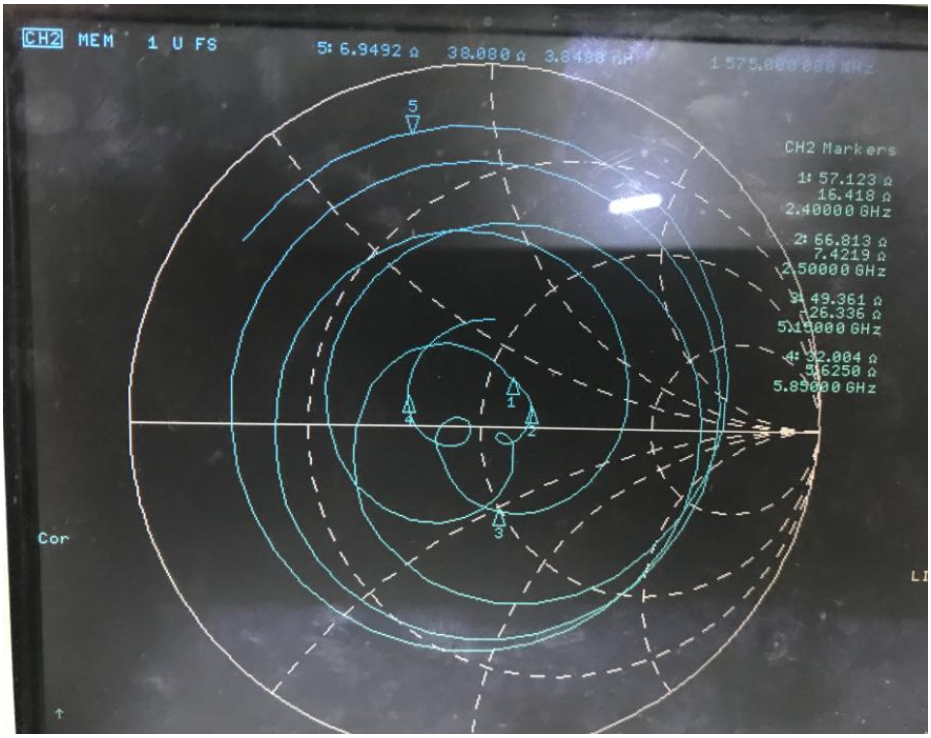


3-2 Return loss plot

2.4G	2.5G	5.15G	5.85G
-15.6dB	-16.0dB	-11.8dB	-12.7dB



3-3 Smith Chart



3-4 Matching circuit

N/A

3-5 No-source test data

Frequency	2.4G	2.42G	2.45G	2.47G	2.49G
Efficiency	59%	58%	57%	58%	57%
Gain.dB	2.53	2.92	2.86	2.87	2.96

Frequency	Efficienc	Efficiency . dB	Frequency	Gain . dB
2.4E+09	59%	-2.27028	2.4E+09	2.538545
2.41E+09	58%	-2.34515	2.41E+09	2.741231
2.42E+09	58%	-2.39054	2.42E+09	2.922523
2.43E+09	57%	-2.45035	2.43E+09	2.970949
2.44E+09	58%	-2.3768	2.44E+09	2.976098
2.45E+09	57%	-2.44196	2.45E+09	2.864206
2.46E+09	59%	-2.29193	2.46E+09	2.906926
2.47E+09	58%	-2.34219	2.47E+09	2.873983
2.48E+09	58%	-2.37285	2.48E+09	2.916145
2.49E+09	57%	-2.47035	2.49E+09	2.965443
2.5E+09	58%	-2.3868	2.5E+09	2.880728

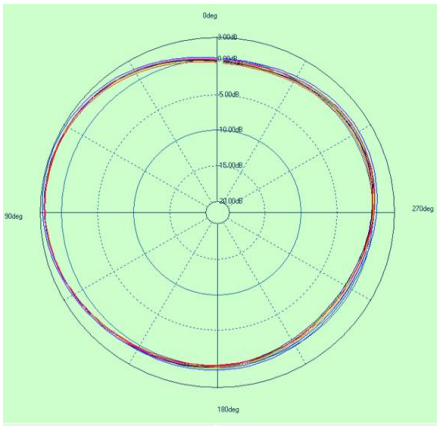
Frequency	5.15G	5.25G	5.75G	5.8G	5.85G
Efficiency	65%	60%	62%	58%	61%
Gain.dB	2.27	2.39	2.57	2.34	2.55

Frequency	Efficienc	Efficiency . dB	Frequency	Gain . dB
5.15E+09	65%	-1.85252	5.15E+09	2.274527
5.2E+09	62%	-2.0823	5.2E+09	2.314546
5.25E+09	60%	-2.18393	5.25E+09	2.391462
5.3E+09	61%	-2.1755	5.3E+09	2.468697
5.35E+09	61%	-2.14496	5.35E+09	2.405616
5.4E+09	60%	-2.22463	5.4E+09	2.422098
5.45E+09	61%	-2.11757	5.45E+09	2.781158
5.5E+09	61%	-2.15105	5.5E+09	2.714014
5.55E+09	66%	-1.8314	5.55E+09	2.572588
5.6E+09	67%	-1.7071	5.6E+09	2.690885
5.65E+09	67%	-1.74773	5.65E+09	2.804433
5.7E+09	64%	-1.91613	5.7E+09	2.800621
5.75E+09	62%	-2.10672	5.75E+09	2.572987
5.8E+09	58%	-2.34557	5.8E+09	2.347272
5.85E+09	61%	-2.12044	5.85E+09	2.550763

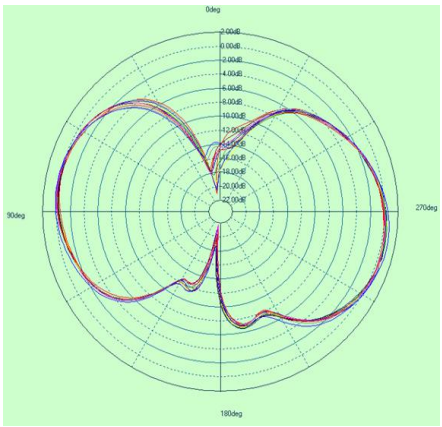
3-6 Environment treatment

N/A

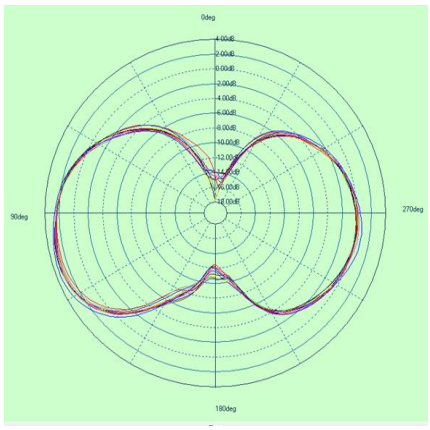
3-7 Directional drawing of horizontal plane of (2.4G)



Theta 90deg

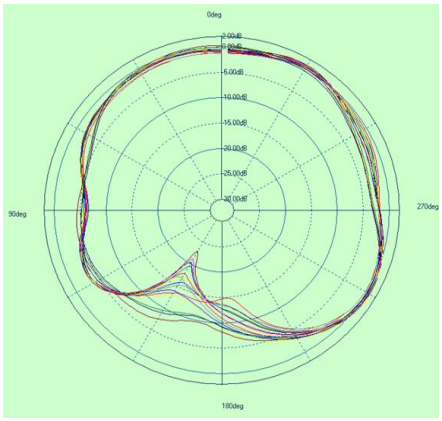


Phi 0deg

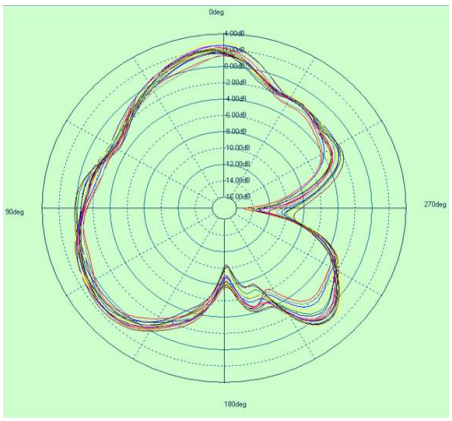


Phi 90deg

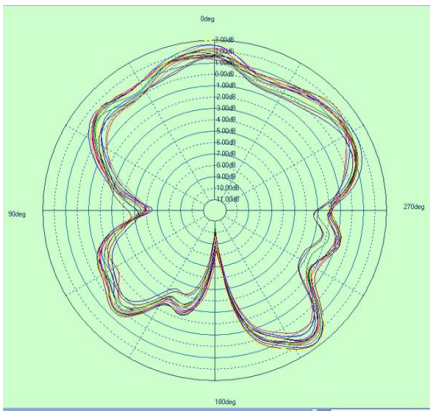
(5G)



Theta 90deg

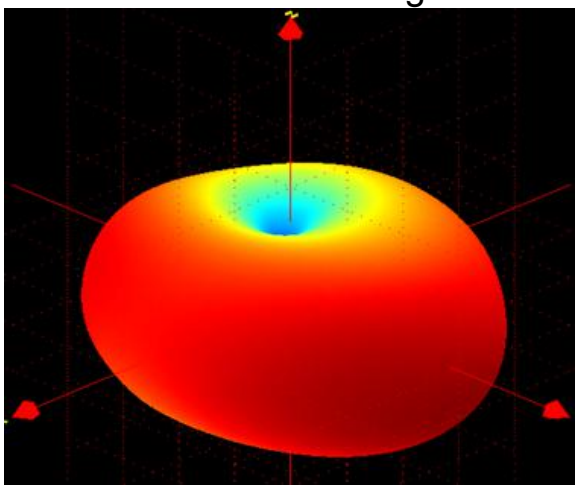


Phi 0deg

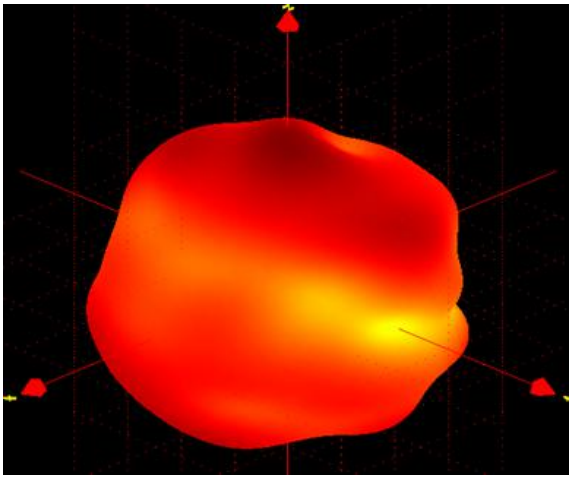


Phi 90deg

3-8 3D radiation drawing



(2.4G)



(5G)

7.Salt-Spray test

客户	高盛达	产品名称	WC0F	日期	2017/9/13
产品材质	SUS304	试验时间	48H	数量	2pcs
时间段	测试条件	试验标准		结果	备注
0-6 小时	盐雾测试机:鹽液：NaCl（無水）；浓度 5%±1%；pH 值：6.5～7.2；试验室溫度：32-38℃；压缩空气压力:1.0±0.01(KG/M2)喷雾量：1.0～2.0ML/80CM2/H.相对湿度:85%±2%;试验品放置角度:30 度+/-10 度;鹽霧持續時間：48h,	产品表面无锈点、氧化、腐蚀、镀（涂）层脱落等不良现象		OK	2017.9.11 10:30AM 始
6-12 小时		产品表面无锈点、氧化、腐蚀、镀（涂）层脱落等不良现象		OK	
12-18 小时		产品表面无锈点、氧化、腐蚀、镀（涂）层脱落等不良现象		OK	
18-24 小时		产品表面无锈点、氧化、腐蚀、镀（涂）层脱落等不良现象		OK	
24-30 小时		产品表面无锈点、氧化、腐蚀、镀（涂）层脱落等不良现象		OK	
30-36 小时		产品表面无锈点、氧化、腐蚀、镀（涂）层脱落等不良现象		OK	
36-42 小时		产品表面无锈点、氧化、腐蚀、镀（涂）层脱落等不良现象		OK	
42-48 小时		产品表面无锈点、氧化、腐蚀、镀（涂）层脱落等不良现象		OK	2017.9.13 10:30AM 止
48 小时以上		产品表面无锈点、氧化、腐蚀、镀（涂）层脱落≤1%产品面积			
结论	盐雾 OK				
试 验 员	李伟	审 核	易爱玲	批 准	童家柏

8. Environment Characteristic

NO.	ITEM	TEST CONDITION	SPECIFICATION
4-1	High Temperature/Humidity Storage Test(non operating)	1.Temperature: +80 ±2℃ 2.Humidity: 90~95%RH 3.Time: 48hrs	No material deformation is allowed. The VSWR, Gain, Radiation Pattern must be met specifications after these test.
4-2	Low Temperature/Humidity Storage Test(non operating)	1.Temperature: -30±2℃ 2.Humidity: 0%RH 3.Time:48hrs	

9. ROHS material list

序号	材料（原料）名称	第三方公证化学报告测试编号	第三方公证化学报告测试单位	第三方公证化学报告测试日期	状态	文档
1	SUS304	SZXEC1700370001	SGS	2017/4/28	有效	SUS304 SZXEC17003700(