

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

	CUSTOMER(客户名称)	GSD	
	Model (型号)	G.5.13.WC0DXXDAXX	
	PART NAME(品名)	WIFI 天线组件	
	FREQUENCY(频率)	2400-2500MHz 5150-5850 MHz	
	ZTX NO.(物料编号)	2.00003348	
	DATE(日期)	2018-04-11	

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
		邹一麟	李方森	



深圳市中天迅通信科技股份有限公司

SHENZHEN ZHONGTIAN XUN Communication Technology Co.,Ltd.

地址: 深圳市宝安区石岩镇石龙大道 34 号(腾达工业园) 邮编: 518000

电话 (Tel): 0755-27588320 传真 (Fax): 0755-27588045 <http://www.chinaztx.com>

Address: No.34 Shilong Avenue (Tengda Industrial Park), Shiyan Town, Baoan District, Shenzhen

ANTENNA SPECIFICATION

CUS P/N : G.5.13.WC0DXXDAXX

ApplicationDate:Nov,27,2018

Editor:

Rev: R:A1

Page 1 of 8

Revision history

版本	日期	状态
A1	2018-11-27	首版承认书



ANTENNA SPECIFICATION

CUS P/N : G.5.13.WC0DXXDAXX

ApplicationDate:Nov,27,2018

Editor:

Rev: R:A1

Page 2 of 8

Index

		Revision history	1
1		Test equipment	3
2		Electrical Specifications	4
	2-1	Frequency Band	4
	2-2	VSWR And GAIN	4
3		Antenna test data	4
	3-1	VSWR	4
	3-2	mith Chart	5
	3-3	Matching circuit	5
	3-4	No-source test data	5
	3-5	Directional drawing of horizontal plane of	6
4		Mechanical Specification	7
	4-1	Mechanical Specification (WIFI2.4G/5.8G)	7
	4-2	Mechanical Specification (WIFI 组件)	8



ANTENNA SPECIFICATION

CUS P/N : G.5.13.WC0DXXDAXX

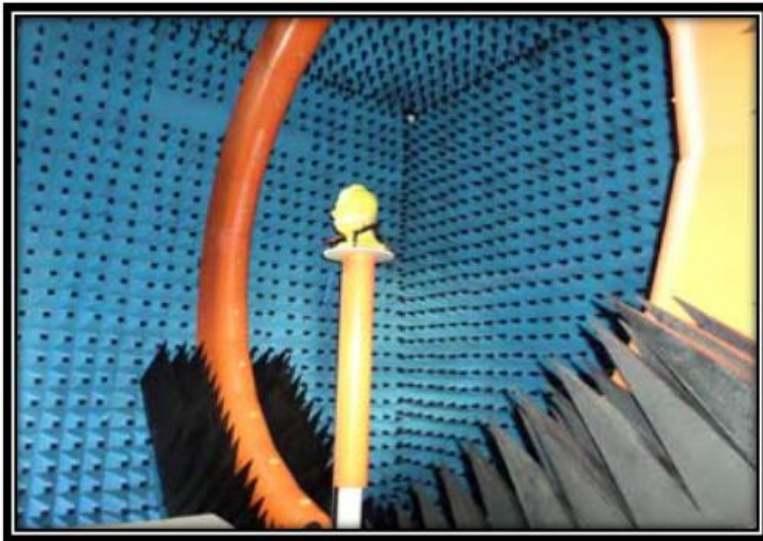
ApplicationDate:Nov,27,2018

Rev: R:A1

Editor:

Page 3 of 8

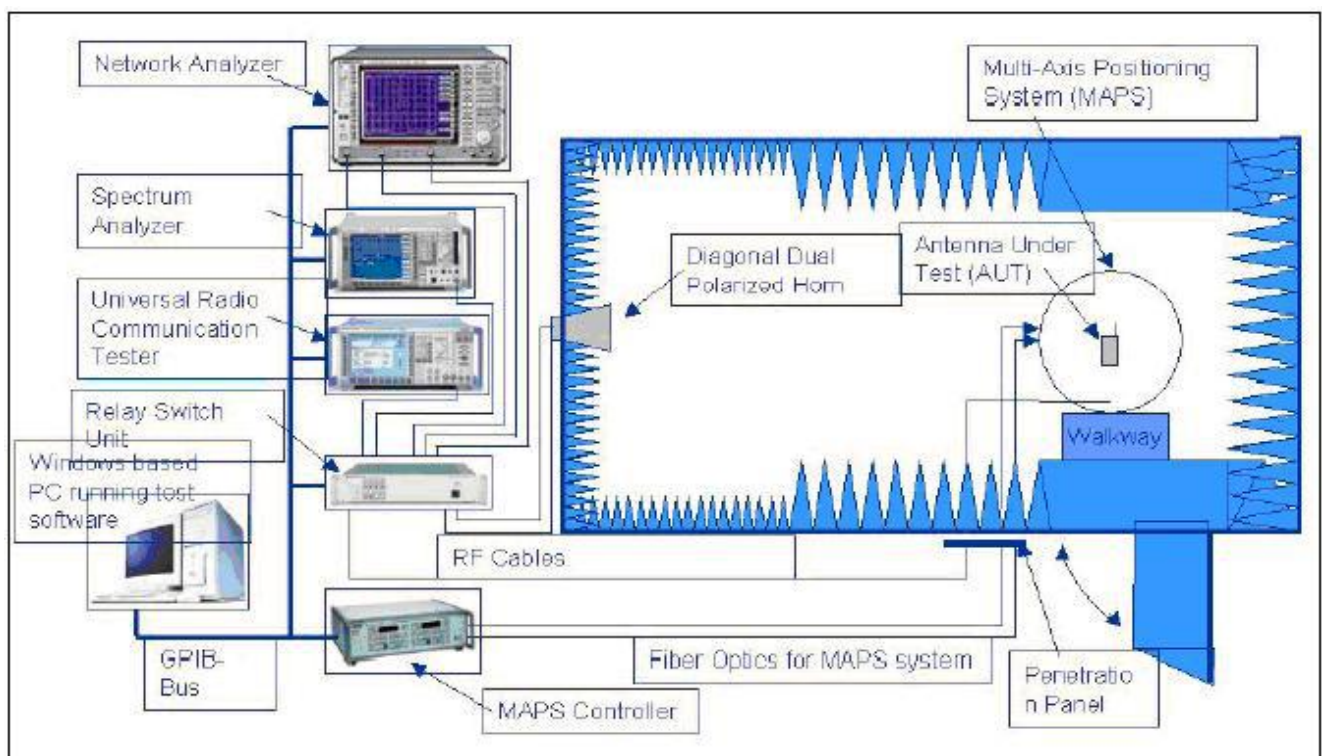
1. Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CITA standards.

Testing range:

Support active, passive testing of
GSM/CDMA/WCDMA/TD-
SCDMA/LTE/WIFI/WLAN/WiMax/BT
/GPS/MIMO/UWB within 0.4-6G.



ANTENNA SPECIFICATION

CUS P/N : G.5.13.WC0DXXDAXX

ApplicationDate:Nov,27,2018

Rev: R:A1

Editor:

Page 4 of 8

2. Electrical Specifications

2-1 Frequency Band

Frequency Band	Frequency
WIFI 2.4G	2400-2500MHZ
WIFI 5.8G	5150-5850MHZ

2-2 VSWR And GAIN

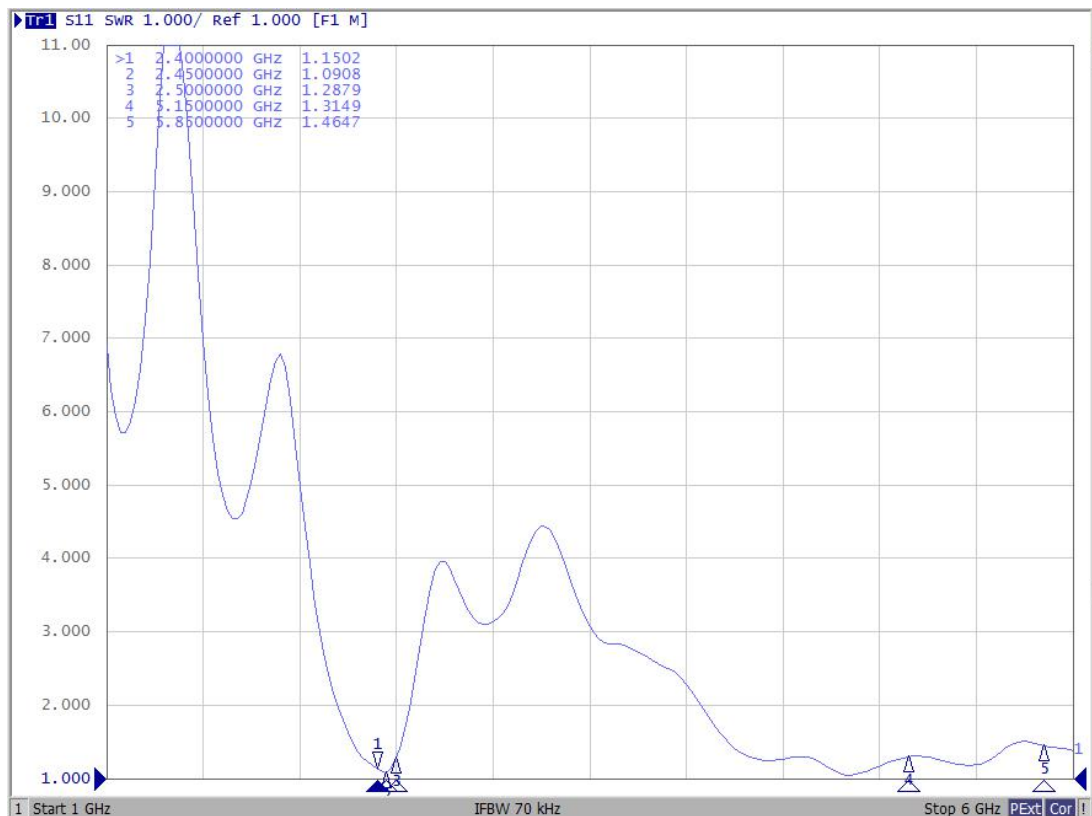
VSWR			GAIN		
Freq. Band	OPEN	SPEC	Band	Freq.	OPEN SPEC
2400MHz	≤ 2.0		2400MHz		$\geq -1.0\text{dBi}$
2500MHz	≤ 2.0		2500MHz		$\geq -1.0\text{dBi}$
5150MHz	≤ 2.0		5150MHz		$\geq -1.0\text{dBi}$
5850MHz	≤ 2.0		5850MHz		$\geq -1.0\text{dBi}$

※Measuring a 50 Ω test jig is connected to a network analyzer to measure the VSWR.

※※All test value is done in customer approval fixture.

3.Antenna test data

3-1 VSWR



ANTENNA SPECIFICATION

CUS P/N : G.5.13.WC0DXXDAXX

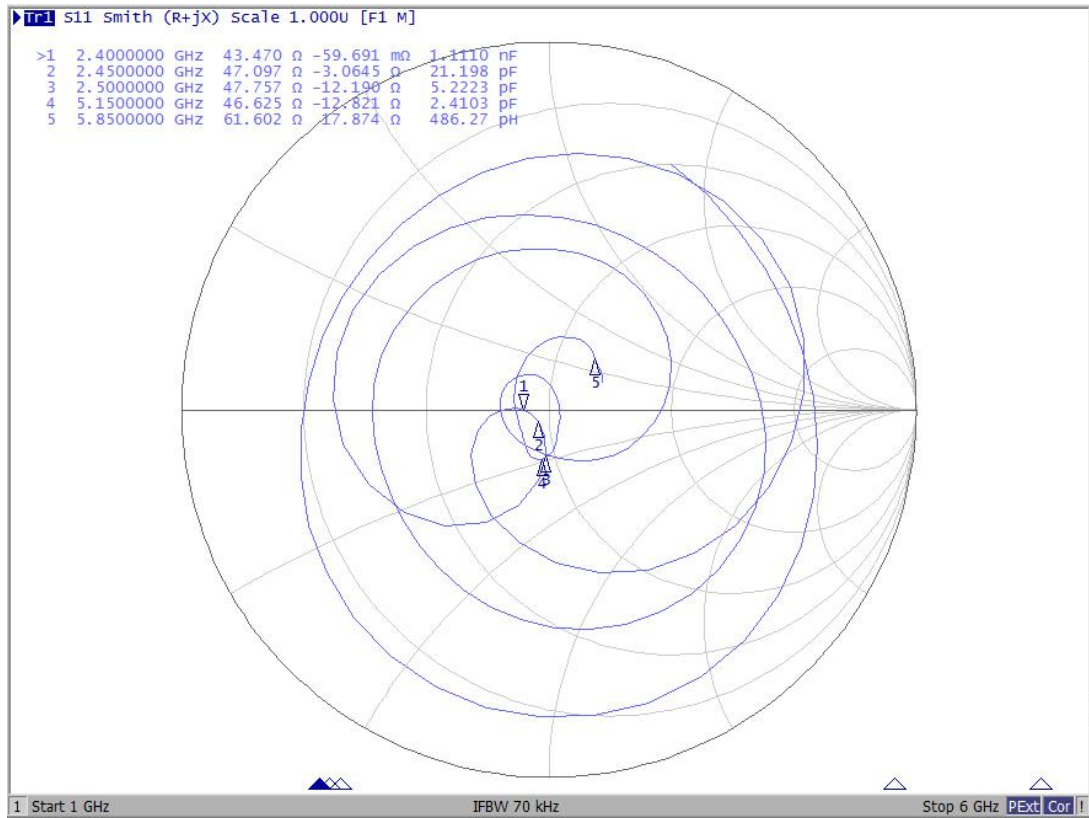
ApplicationDate:Nov,27,2018

Rev: R:A1

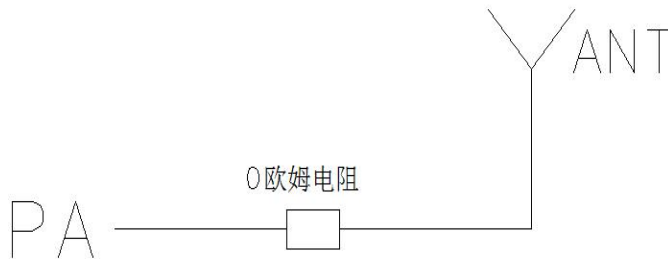
Editor:

Page 5 of 8

3-2 Smith Chart



3-3 Matching circuit



3-4 No-source test data

Frequency (MHz)	2400	2450	2500	5150	5850
Gain Efficiency (dB)	1.82 (44%)	2.00 (48%)	1.88 (45%)	3.00 (61%)	2.82 (56%)



ANTENNA SPECIFICATION

CUS P/N : G.5.13.WC0DXXDAXX

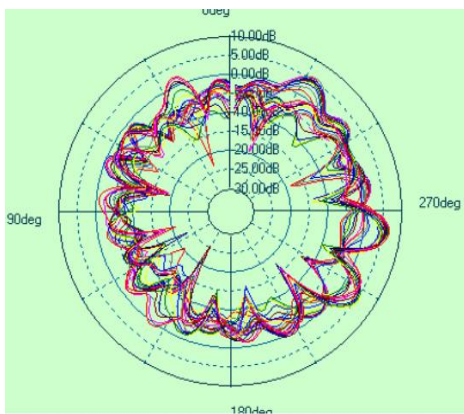
ApplicationDate:Nov,27,2018

Rev: R:A1

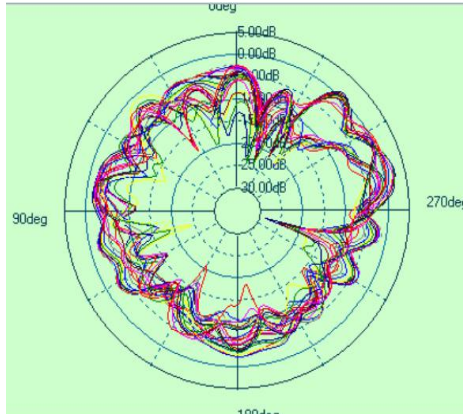
Editor:

Page 6 of 8

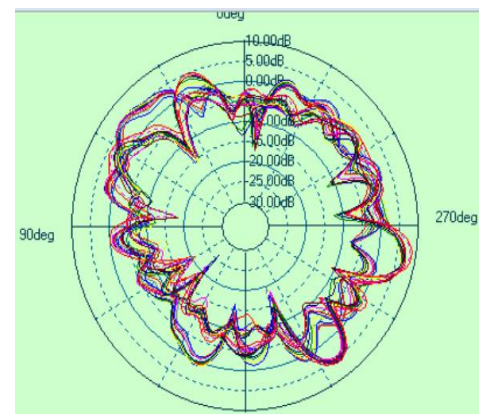
3-5 Directional drawing of horizontal plane of



Theta 90deg



Phi 0deg



Phi 90deg



ANTENNA SPECIFICATION

CUS P/N : G.5.13.WC0DXXDAXX

ApplicationDate:Nov,27,2018

Editor:

Rev: R:A1

Page 7 of 8

4. Mechanical Specification

4-1 Mechanical Configuration(WIFI2.4G/5.8G)

[illegible]

ANTENNA SPECIFICATION

ApplicationDate:Nov,27,2018

Rev: R:A1

CUS P/N : G.5.13.WC0DXXDAXX

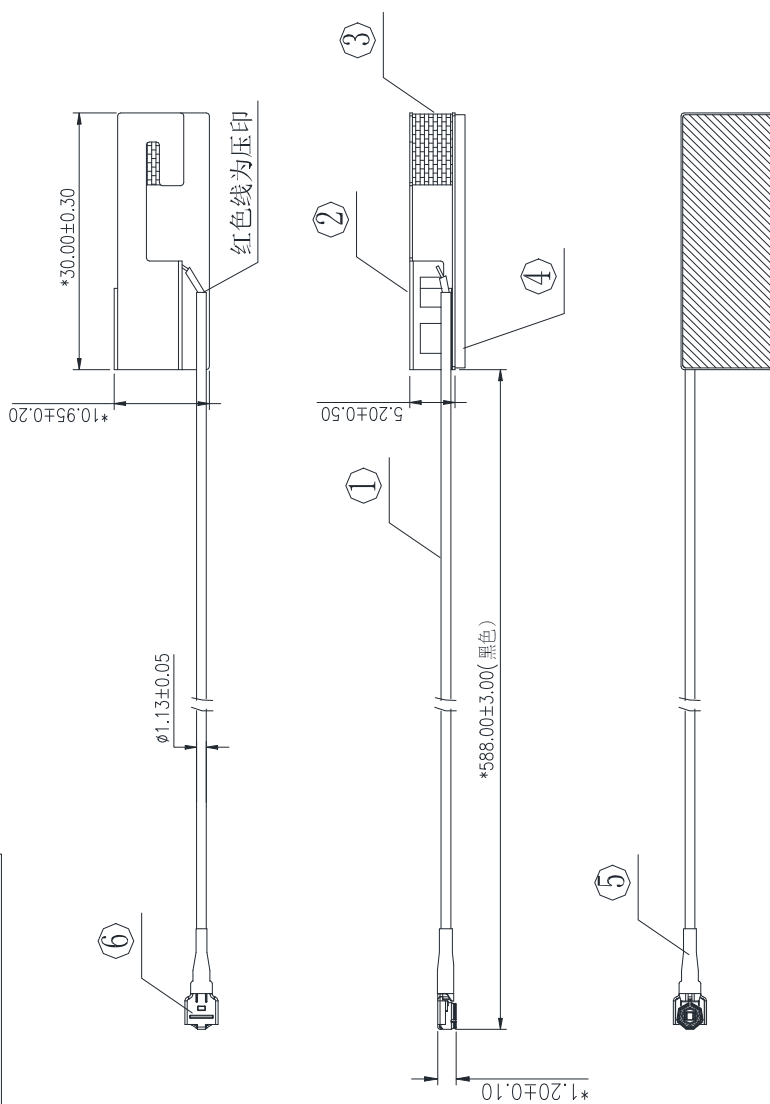
Editor:

Page 8 of 8

4-2 Mechanical Configuration(天线组件)

版本	说明	审核	日期	批准	日期

端子与板端扣合后拔去力(Unmating force):
初次5N以上; 30次插拔后3N以上;



注: 带*尺寸为CPK检测尺寸

材质说明:

序号	结构说明	材质	工 艺	备 注
①	RF同轴线	FEP (F46) / 黑色		料号:ST113/50-055
②	WIFI弹片	SUS304 T=0.30mm	镀镍	
③	支撑泡棉	防火EVA 3M 9495		
④	固定泡棉胶	泡棉胶 3M RP45		
⑤	护套	黑色热缩套管		
⑥	RF端子4代	磷青铜	镀金 厚度 ≥ 1U"	料号: 908-7413-0-B-B0-40

环保要求:

RoHS (PPW)		未注明公差		制图	第一層	日期:	厚度	版本	比例	物料号
MATTER		5 UND ±0.08	5 UND ±0.10	李方森	2018.11.21	材料	SS304	3.0mm (發射)	1:1	2.00003348
Cd	≤100	5-10	10-35	射頻	2018.11.21	產品規格	I2			
Pb	≤1000	35-50	±0.15	審核						
Hg	≤1000	50-100	±0.10	批准						
Cr6+	≤1000	50-100	±0.10	允收書						
PBB	≤1000	50-100	±0.10							
PBDE	≤1000	50-100	±0.10							
產品規格 WIFI組件 圖紙編號 ZTK-QR0413										