

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

	CUSTOMER(客户名称)	高盛达	
	CS P/N(客户机种)	WC0D-60	
	PART NAME(品名)	WIFI Antenna	
	FREQUENCY(频率)	2400-2500MHz 5150-5850 MHz	
	ZTX NO.(物料编号)	2.00000630	
	DATE(日期)	2016-06-29	

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
		邓琦乐	王亚军	



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ZTX P/N :WC0D-60 天线

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1. General Description

Dbi	Decibel relative isotropic antenna
Tx	Transmit frequency
Rx	Receive frequency
VSWR	Voltage Standing Wave Ratio
GSM	Global Service for Mobile communication
DCS	Digital Communication System
PCS	Personal Communication System
PHS	Personal Handy-phone System
SAR	Specific Absorption Rate
PCB	Printed Circuit Board

2. Electrical Specifications

2-1 Set-up

2-1-1 Frequency Band

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

2-1-2 Impedance

Nominal Impedance(including matching circuit) : **50 ohms**

2-1-3 Matching Requirements

The matching circuit on the PCB of the handset is according to Figure 1

Optimum matching circuit is highly dependent on the handset and thus.

Final matching circuit layout and values will be defined when handset is available.

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2-1-4 VSWR And GAIN

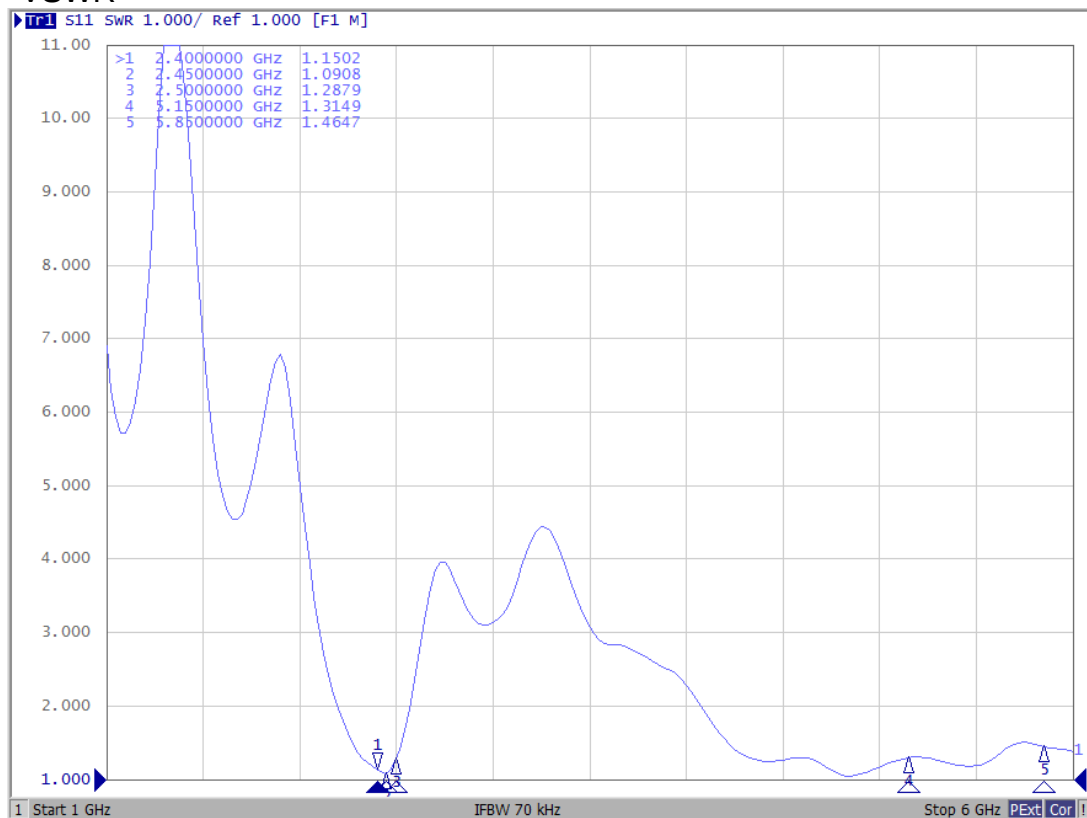
VSWR			GAIN		
Freq. Band	OPEN	SPEC	Band Freq.	OPEN	SPEC
2400MHz		≤ 2.0	2400MHz		$\geq -1.0\text{dBi}$
2500MHz		≤ 2.0	2500MHz		$\geq -1.0\text{dBi}$
5150MHz		≤ 2.0	5150MHz		$\geq -1.0\text{dBi}$
5850MHz		≤ 2.0	5850MHz		$\geq -1.0\text{dBi}$

※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.

2-2 Test Data

2-2-1 VSWR



Model No:WC0D-60	File:
ZTX NO:WC0D-60 天线	Note: WIFI2.4G/5.8G
Sample No:yes	
Test Condition: Free Space	
Confirmation:	Engineer: 王亚军

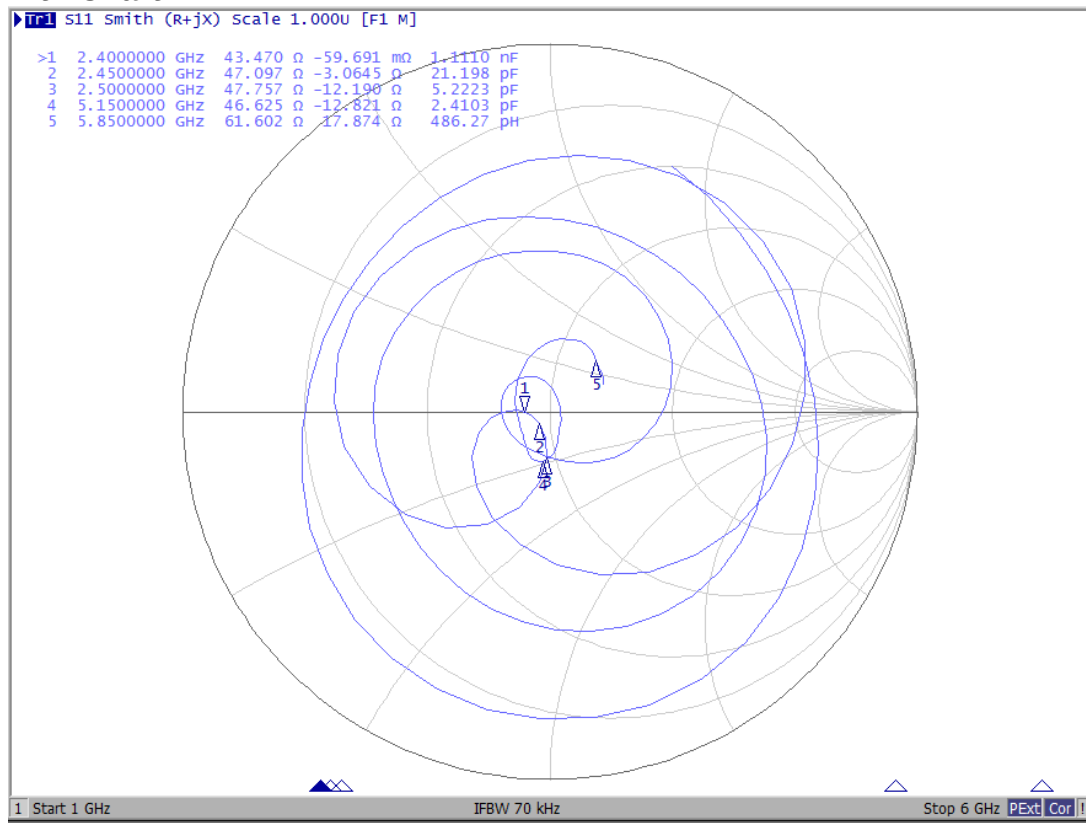
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2-2-2 Smith Chart



2-2-3 GAIN Efficiency

WIFI 增益:

WF7D	WIFI				
Frequency (MHz)	2400	2450	2500	5150	5850
Gain	1.42	1.72	1.65	2.34	2.57
Efficiency (dB)	(44%)	(48%)	(45%)	(61%)	(66%)

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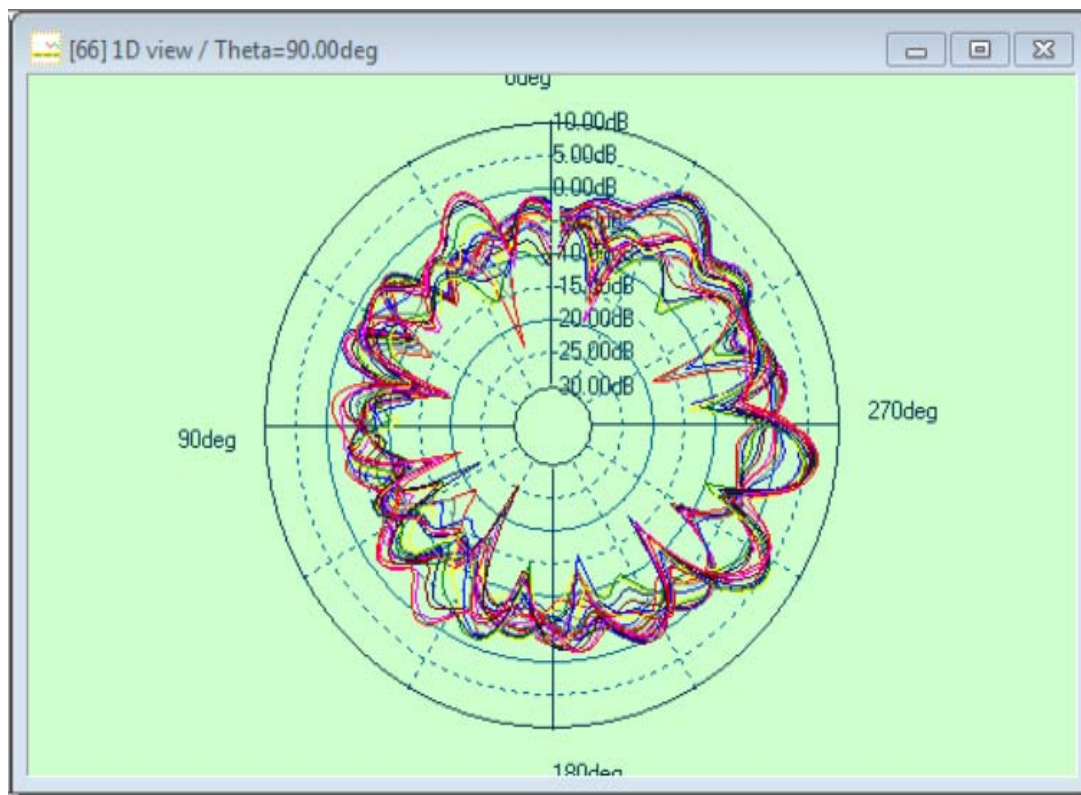
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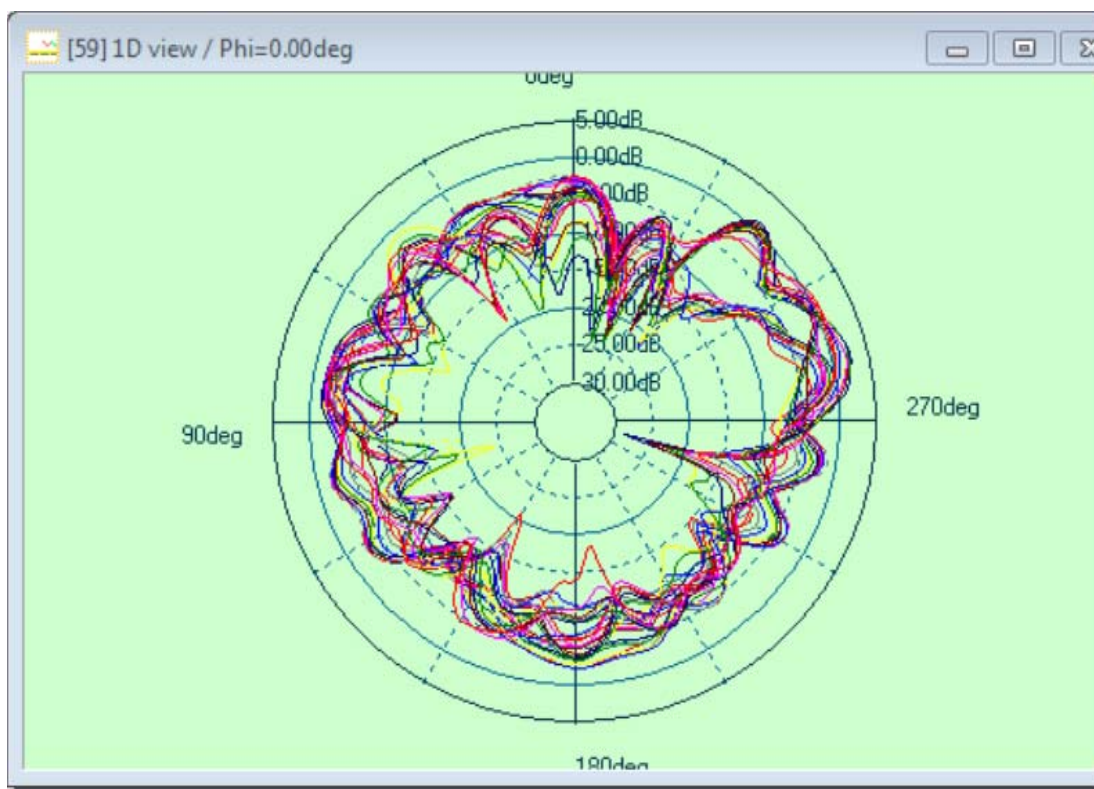
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2-2-4 The direction of figure

H



E1



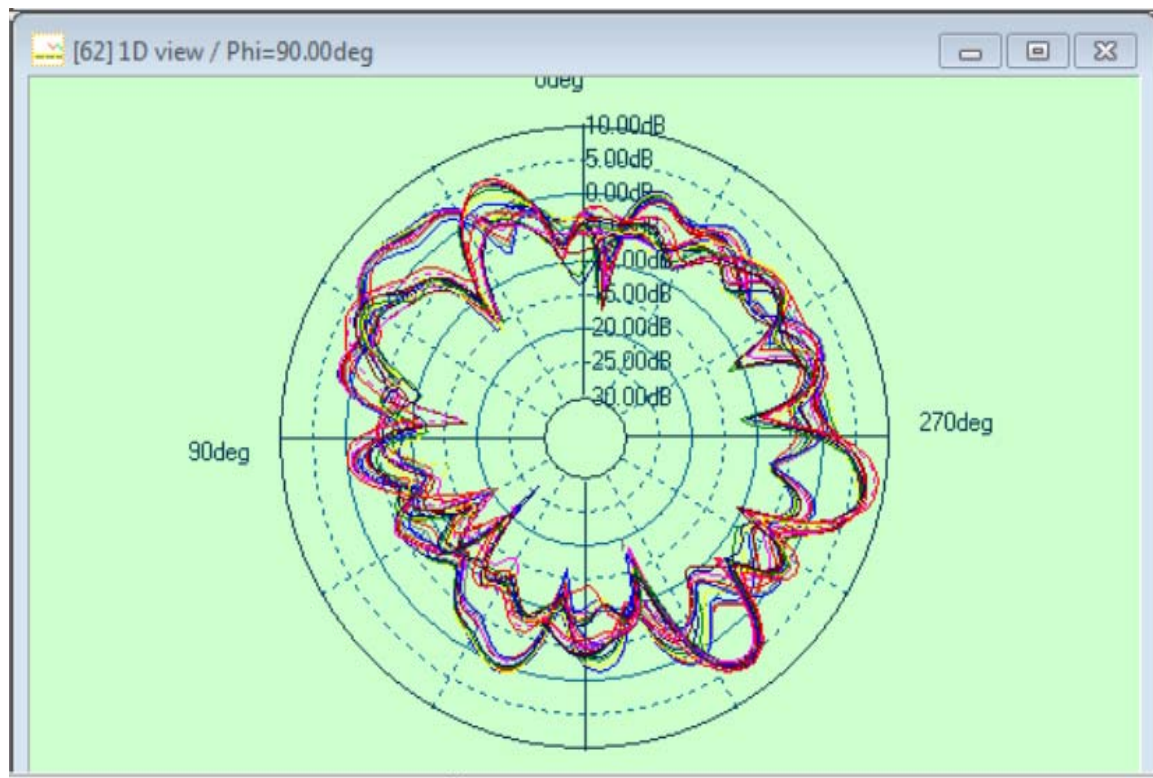
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E2



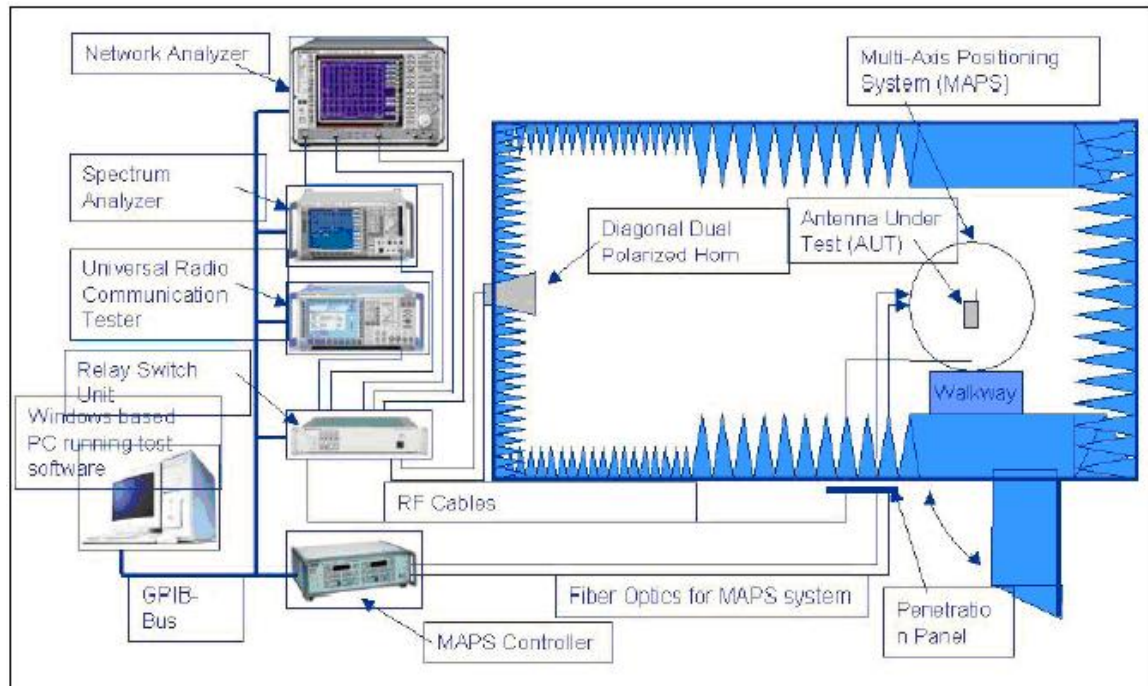
2-2-5 Testing equipment

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环境处理

无

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3-2 Measurement Data

3-3 Salt-Spray test

35℃, 85%RH, 48Hours(According to MIL-STD-810E)The salt-spray is generated from a 5% salt solution., The VSWR, Gain, Radiation Pattern must be met specifications after the salt-spray test.

4. 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.
4-2	Low Temperature/Humidity Storage Test(non operating)	1.Temperature: -30±2℃ 2.Humidity: 0%RH 3.Time:48hrs	The VSWR, Gain, Radiation Pattern must be met specifications after these test.

5.MSDS

材质成份表

产品名称:		更新日期:					
序号	材料(原料)名称	制造商	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	ZTX	CANEC1610311502	SGS	2016/6/6	有效	PDF
2	泡棉	ZTX	CANEC1601382720	SGS	2016/2/2	有效	PDF
3	背胶	ZTX	CTSSA/14446-1/15	SGS	2016/3/4	有效	PDF
4	端子	ZTX	CE/2016/11480	SGS	2016/1/25	有效	PDF
5	锡镀铜线-基材	ZTX	SCL01H067067001E	CTI	2015/8/7	有效	PDF
6	锡镀铜线-镀层	ZTX	SCL01H067067002E	CTI	2015/8/7	有效	PDF
7	FEP 护套	ZTX	SHAEC1601004407	SGS	2016/1/20	有效	PDF
8	FEP 绝缘	ZTX	SHAEC160100409	SGS	2016/1/20	有效	PDF