

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

CUSTOMER(客户名称)	高盛达	
CS P/N(客户机种)	WCT5R	
PART NAME(品名)	BT 天线	
FREQUENCY(频率)	2400-2500MHz	
ZTX NO.(物料编号)	1.01.01187	G.5.13.WCT5RBTXXX
DATE(日期)	2020-12-21	

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	赵烽	



深圳市中天迅通信技术股份有限公司

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: 0755-27588320 传真: 0755-27588045 <http://www.chinaztx.com>

ANTENNA SPECIFICATION

CUS P/N :WCT5R BT 天线
ZTX P/N :WCT5R BT 天线

ApplicationDate:Dec,21,2020
Editor:

Rev: R:A1
Page 1 of 12

Revision history

版本	日期	状态
A1	2020-12-21	首版



ANTENNA SPECIFICATION

CUS P/N :WCT5R BT 天线
ZTX P/N :WCT5R BT 天线

ApplicationDate:Dec,21,2020
Editor:

Rev: R:A1
Page 2 of 12

Index

		Revision history	1
		Index	2
1		Mechanical Specification	3
	1-1	Mechanical Specification (BT 天线)	3
2		Test equipment	4
3		Antenna test data	5
	3-1	VSWR	5
	3-2	Matching circuit	5
	3-3	No-source test data	6
	3-4	Environmental treatment	6
	3-5	Directional drawing of horizontal plane of	7
	3-6	3D radiation drawing	8
	3-7	Insulation	8~9
4		Environment Characteristic	10
5		Material list	10
6		The packing way	11
		附页：出货标签模板	12



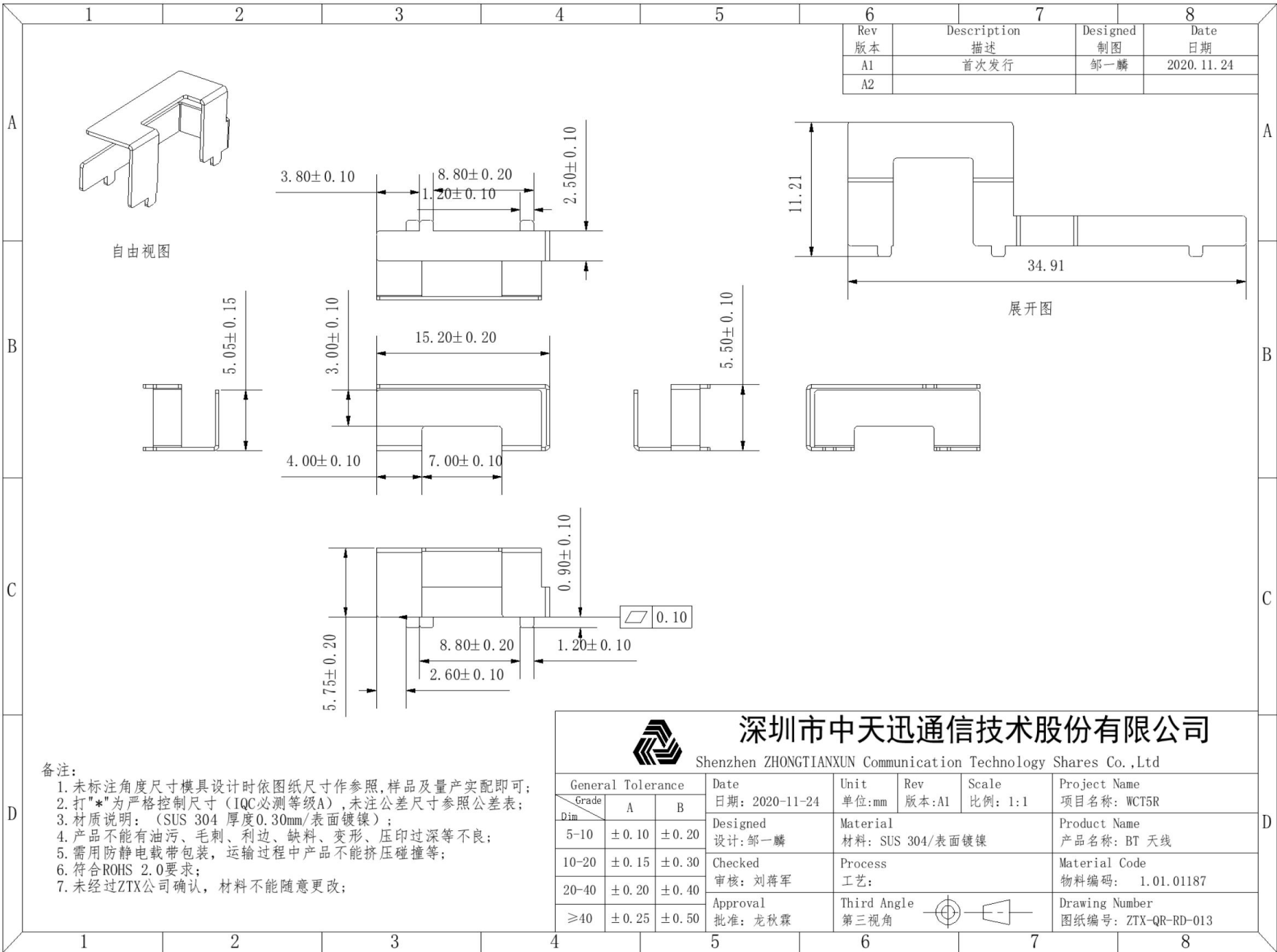
ANTENNA SPECIFICATION

CUS P/N :WCT5R BT 天线
ZTX P/N :WCT5R BT 天线

Application Date: Dec, 21, 2020
Editor:

Rev: R:A1
Page 3 of 12

1. Mechanical Specification 1-1 Mechanical Configuration(BT 天线)



备注:

1. 未标注角度尺寸模具设计时依图纸尺寸作参照,样品及量产实配即可;
2. 打"*"为严格控制尺寸(IQC必测等级A),未注公差尺寸参照公差表;
3. 材质说明:(SUS 304 厚度0.30mm/表面镀镍);
4. 产品不能有油污、毛刺、利边、缺料、变形、压印过深等不良;
5. 需用防静电载带包装,运输过程中产品不能挤压碰撞等;
6. 符合ROHS 2.0要求;
7. 未经过ZTX公司确认,材料不能随意更改;

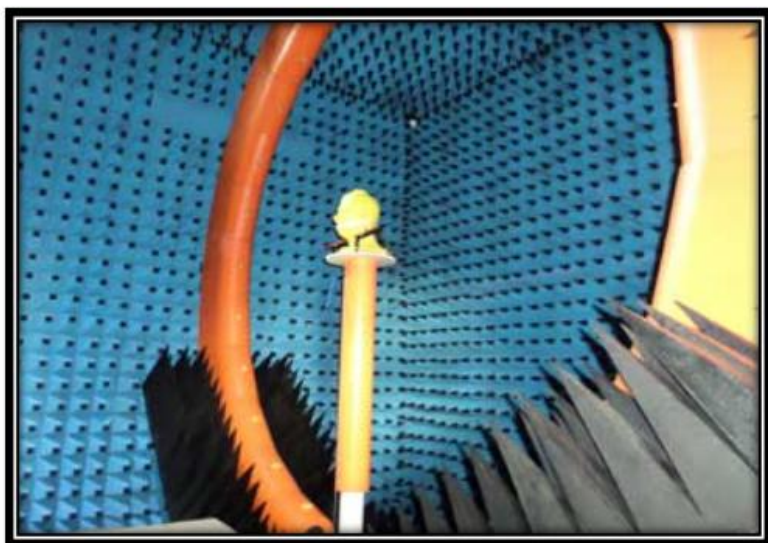
ANTENNA SPECIFICATION

CUS P/N :WCT5R BT 天线
ZTX P/N :WCT5R BT 天线

ApplicationDate:Dec,21,2020
Editor:

Rev: R:A1
Page 4 of 12

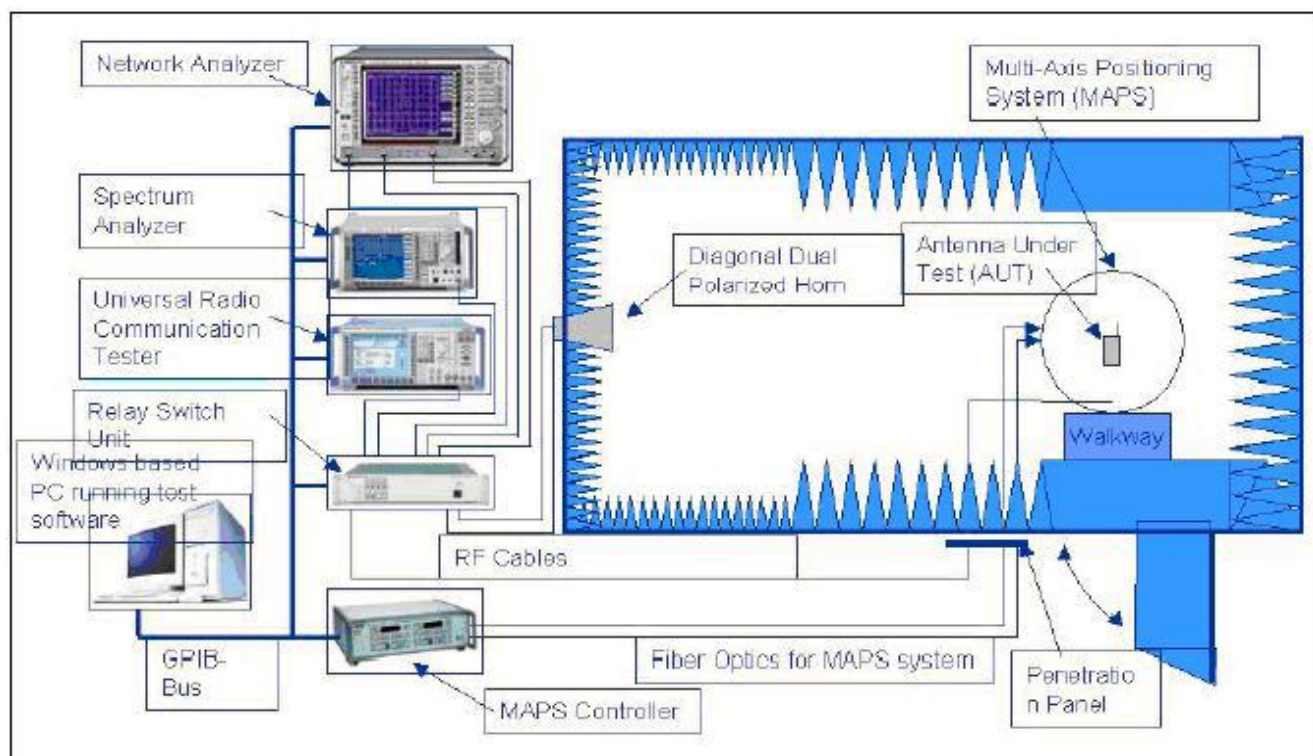
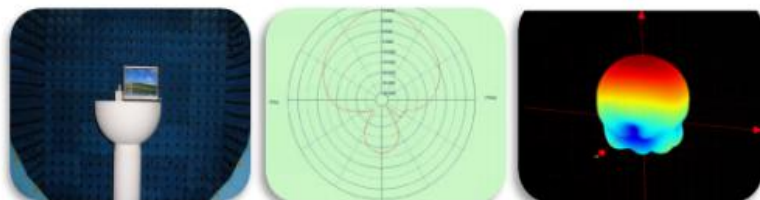
2. Test equipment



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

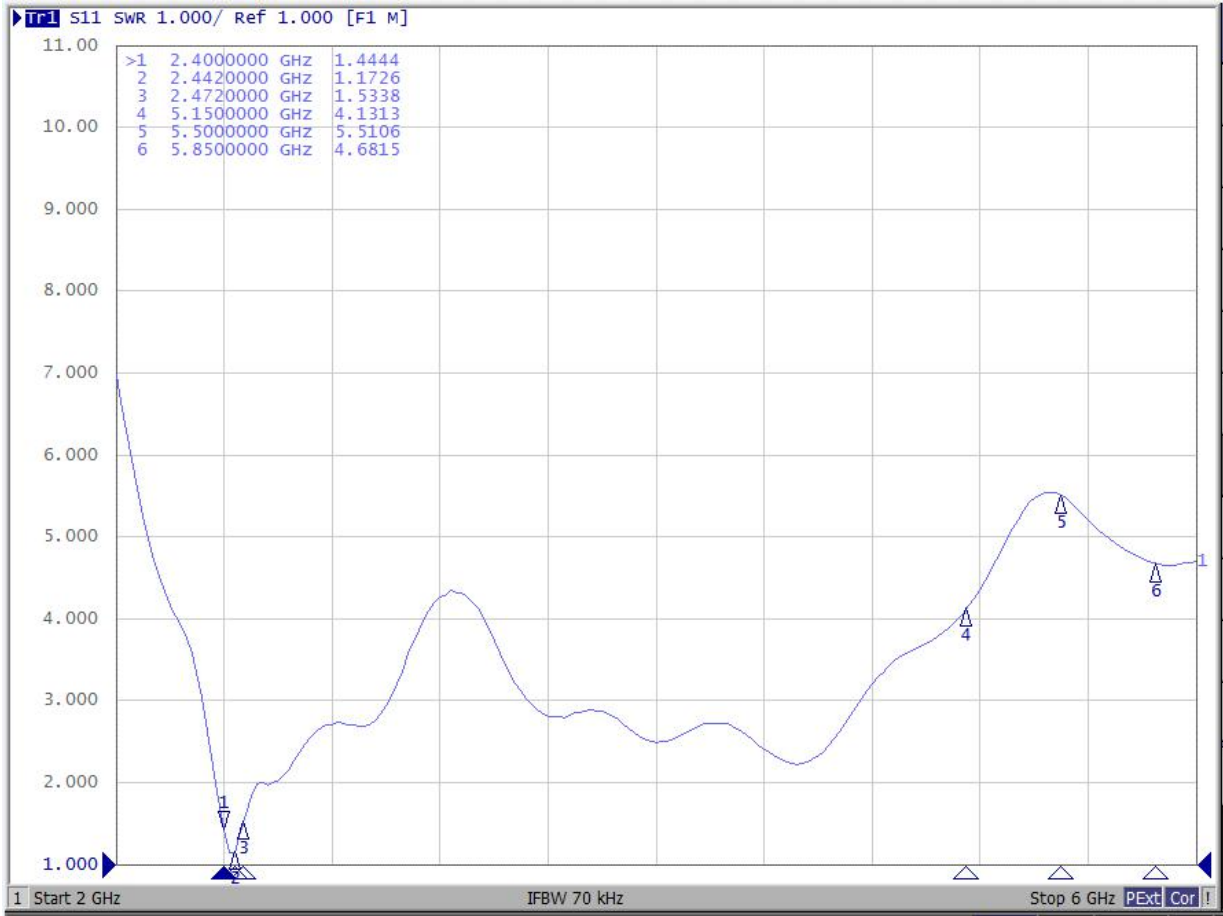
CUS P/N :WCT5R BT 天线
ZTX P/N :WCT5R BT 天线

ApplicationDate:Dec,21,2020
Editor:

Rev: R:A1
Page 5 of 12

3. Antenna test data

3-1 VSWR



3-2 Matching circuit

N/A

3-3 No-source test data

Frequency	Peak Gain	Efficiency	
		%	dB
Mhz	dB	%	dB
2400	3.61	43.55	-3.61
2410	3.81	43.29	-3.64
2420	3.96	43.36	-3.63
2430	4.01	43.81	-3.58
2440	3.62	40.50	-3.93
2450	3.16	37.20	-4.29
2460	2.22	31.57	-5.01
2470	2.09	30.10	-5.21
2480	1.47	26.96	-5.69
2490	1.09	25.79	-5.89
2500	1.27	23.68	-6.26

ANTENNA SPECIFICATION

CUS P/N :WCT5R BT 天线
ZTX P/N :WCT5R BT 天线

ApplicationDate:Dec,21,2020
Editor:

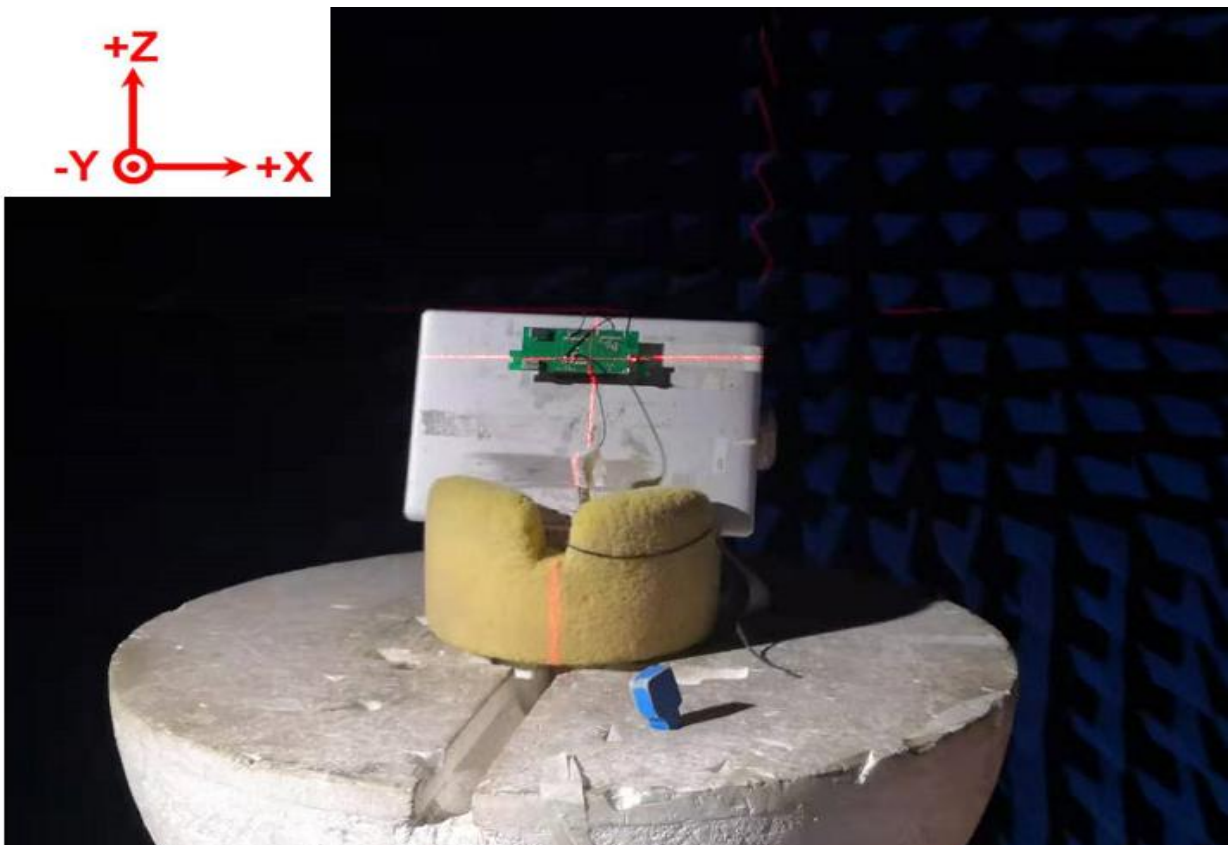
Rev: R:A1
Page 6 of 12

3-4 Environmental treatment

模块距离金属背板17mm，模块不接地



3-5 Directional drawing of horizontal plane of



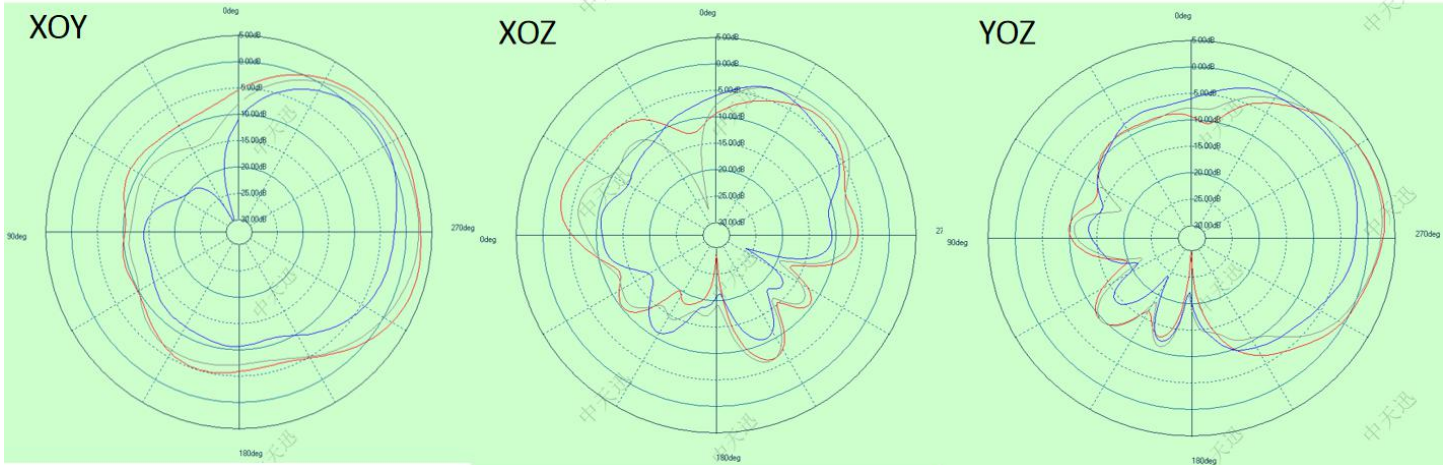
ANTENNA SPECIFICATION

CUS P/N :WCT5R BT 天线
ZTX P/N :WCT5R BT 天线

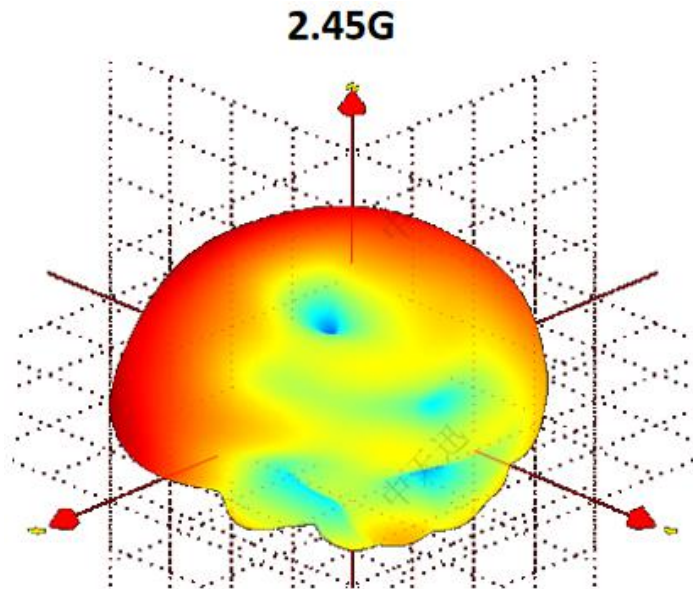
ApplicationDate:Dec,21,2020
Editor:

Rev: R:A1
Page 7 of 12

2.4G



3-6 3D radiation drawing



ANTENNA SPECIFICATION

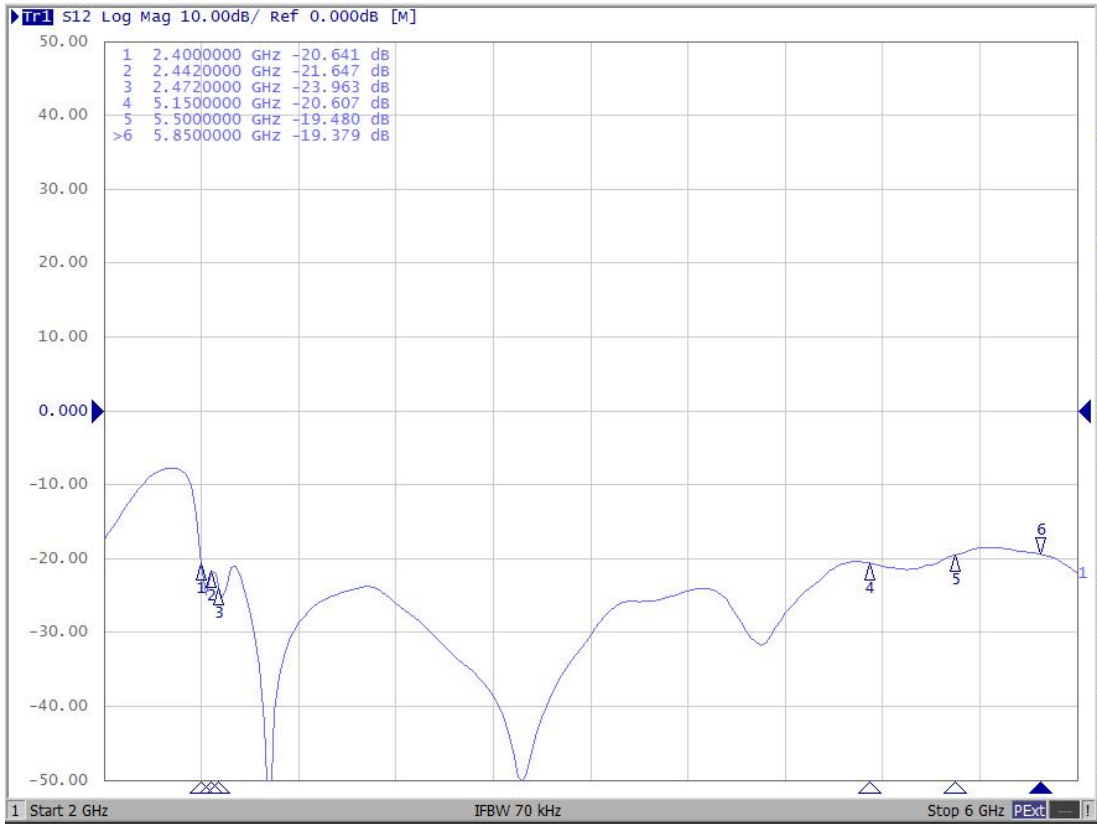
CUS P/N :WCT5R BT 天线
ZTX P/N :WCT5R BT 天线

ApplicationDate:Dec,21,2020
Editor:

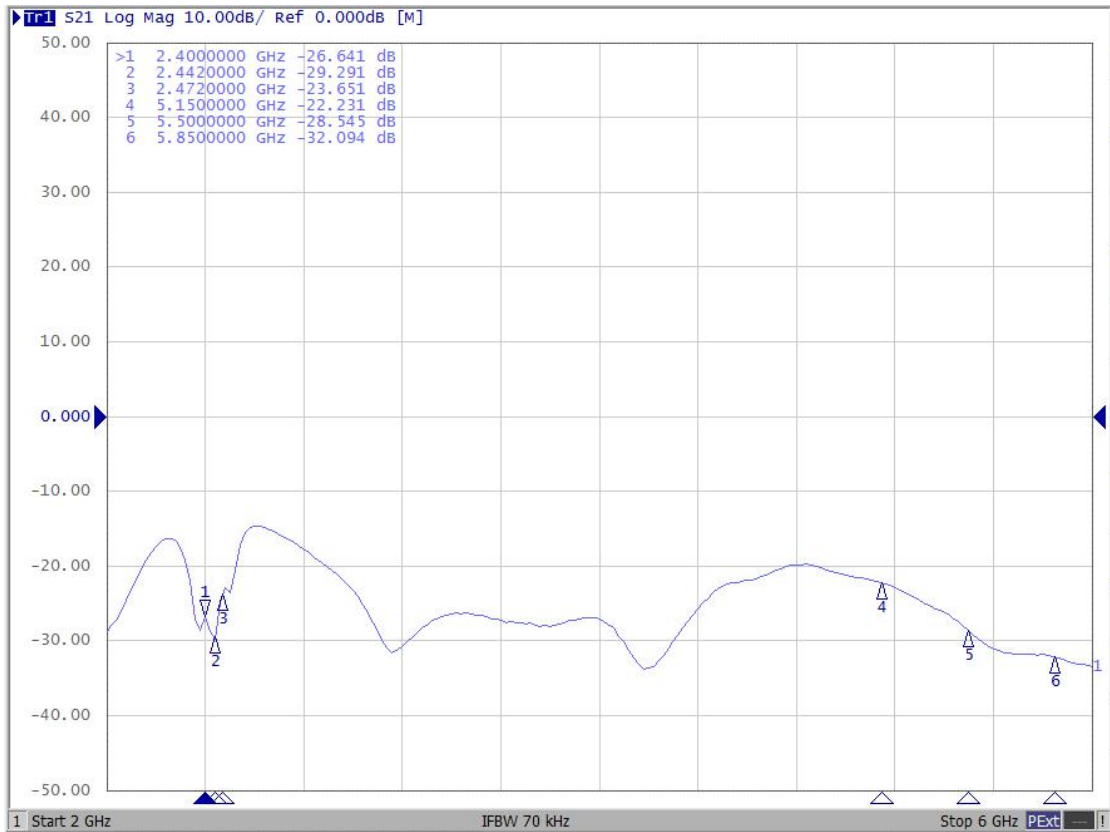
Rev: R:A1
Page 8 of 12

3-7 Insulation

WIFI-1&WIFI-2



WIFI-1&BT



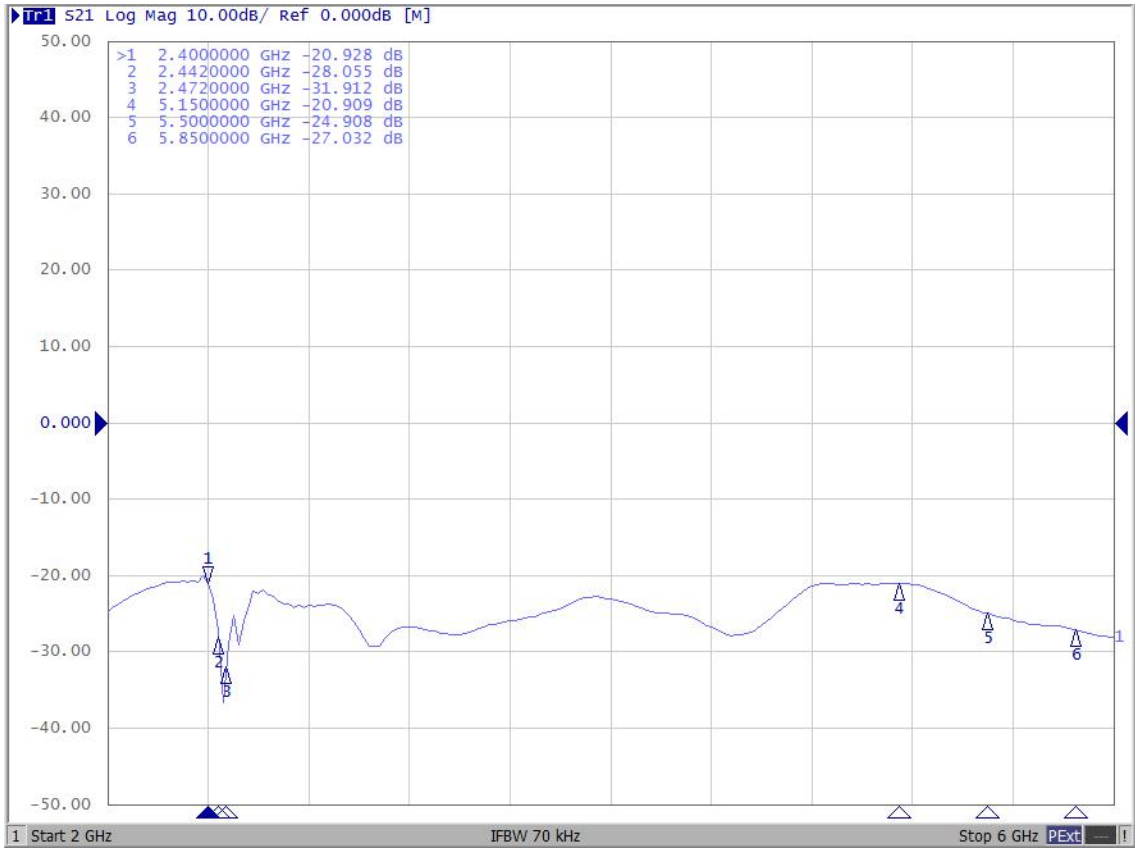
ANTENNA SPECIFICATION

CUS P/N :WCT5R BT 天线
ZTX P/N :WCT5R BT 天线

ApplicationDate:Dec,21,2020
Editor:

Rev: R:A1
Page 9 of 12

WIFI-2&BT



ANTENNA SPECIFICATION

CUS P/N :WCT5R BT 天线
ZTX P/N :WCT5R BT 天线

ApplicationDate:Dec,21,2020
Editor:

Rev: R:A1
Page 10 of 12

4. Environment Characteristic

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

5. 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(镍)	SZXEC2000531103	SGS	2020-04-08	有效	 SUS304(镍) SZXEC20005311C




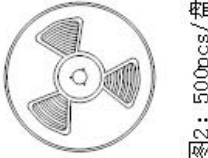


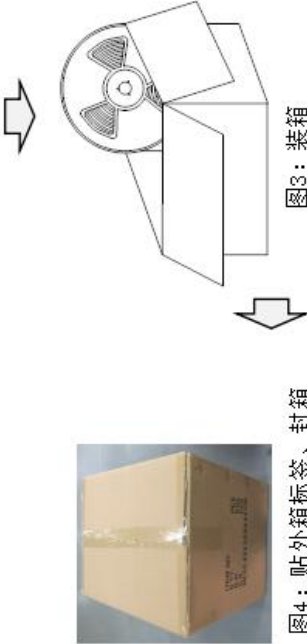
ANTENNA SPECIFICATION

CUS P/N :WCT5R BT 天线
ZTX P/N :WCT5R BT 天线

ApplicationDate:Dec,21,2020
Editor:

Rev: R:A1
Page 11 of 12

6.The packing way

深圳市中天迅通信技术股份有限公司 SHENZHEN ZHONGTIAN XUN Communication Technology Co.,Ltd.				包装规范			
产品名称	产品型号	文件编号	版本号	工序序号/名称	工序工时	日产量	
BT天线	WCT5R	ZTX-QD-WI	A1	包装/装箱	/	/	
 <p>图1：载带包装</p>				<p>作业方法（自检验工序作业合格后，方能流入下一道工序）</p> <ol style="list-style-type: none"> 每800PCS/盘，贴内标签，内标签包含（物料名称，物料型号，物料编码，数量）； 将载带包装好的产品装入箱内（每箱装14盘（11200PCS））尾数除外； 在装好产品的箱子将标签贴于外箱的右上角，标签内容包含（生产厂家，型号，产品名称，客户编码，数量，订单号，日期，QA检验，客户所提供月份标RoHS等）不可有漏写，写错现象； 将贴好标签的箱子用胶纸以“工”字型封箱。 			
 <p>图2：500pcs/盘</p>				<p>注意事项</p> <p>注意标签有无贴错，漏贴，箱子有无破损</p>			
 <p>图3：载带包装</p>				<p>物料名称</p> <p>防静电编带</p> <p>纸箱</p> <p>标签</p>			
 <p>图4：贴外箱标签、封箱</p>				<p>物料编码</p> <p>用量</p> <p>14</p> <p>1</p> <p>/</p>			
 <p>图5：装箱</p>				<p>使用工具</p>			
<p>版本</p>				<p>修订内容</p>			
<p>A1</p>				<p>新制定</p>			
<p>制订</p>				<p>审核</p>			
<p>包丽平</p>				<p>易爱玲</p>			
<p>品质确认</p>				<p>胡春梅</p>			
<p>批准</p>				<p>批准</p>			
<p>龙秋霖</p>				<p>龙秋霖</p>			

ANTENNA SPECIFICATION

CUS P/N :WCT5R BT 天线
ZTX P/N :WCT5R BT 天线

ApplicationDate:Dec,21,2020
Editor:

Rev: R:A1
Page 12 of 12

附页：出货标签模板

	
PN: G. 5. 13. WCT5RBTXXX	
LOT NO: 1205-2006120022	
	Date Code: 201221
REEL NO: 201004420122190001	VENDOR: ZTX
PART DESC: WCT5R BT天线	QTY: <input type="text" value="800"/>
深圳市中天迅通信技术股份有限公司	

	
PN: G. 5. 13. WCT5RBTXXX	
LOT NO: 1205-2006120022	
	Date Code: 201221
REEL NO: 201004420122190001	VENDOR: ZTX
PART DESC: WCT5R BT天线	QTY: 11200
深圳市中天迅通信技术股份有限公司	