

# 规格承认书

## SPECIFICATION FOR APPROVAL

日期

DATE: 2024.01.04

版本

REV.: V1.0

客户

CUSTOMER:

ATEL

客户料号

CUSTOMER P/N:

品名

PART NAME:

BC20 wifi ant

供方料号

SUPPLIER P/N:

N12-7464-R0A

送样日期 Date:

送样数量 Q'TY:

Pcs

### 客户确认 CUSTOMER APPROVED BY

工程研发部	生产采购部	承认
ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVED BY

### 供方确认 SUPPLIER SIGNATURE

研发部	工程部	批准
ENGINEER R&D DEPT	ENGINEER R&D DEPT	APPROVAL

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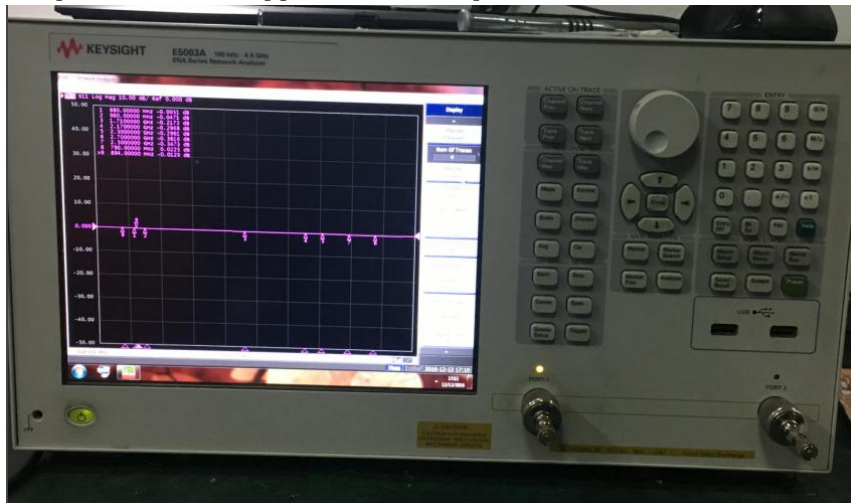
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## 1. RF Fixture Experiment

### 1.1 Test Setup

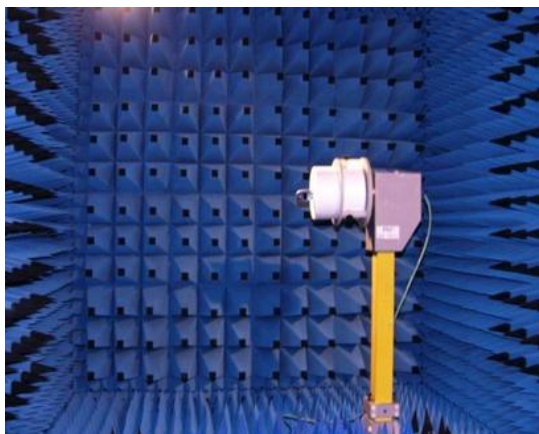
#### 1.1.1 VNA Test Setup

VSWR and Return Loss measurements (S11) were performed using an KeySight E5071C Network Analyzer. The isolation between antennas is also teste. The testing was performed with apparatus in free space.



#### 1.1.4 Anechoic Chamber Test Setup

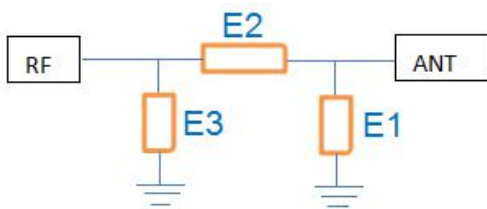
When we test Gain and Efficiency of the antenna, we will use the ETS 3D chamber. The chamber provides test frequency from 400MHz to 6GHz. The real test environment is showing as following picture





## 1.2 UE configuratio

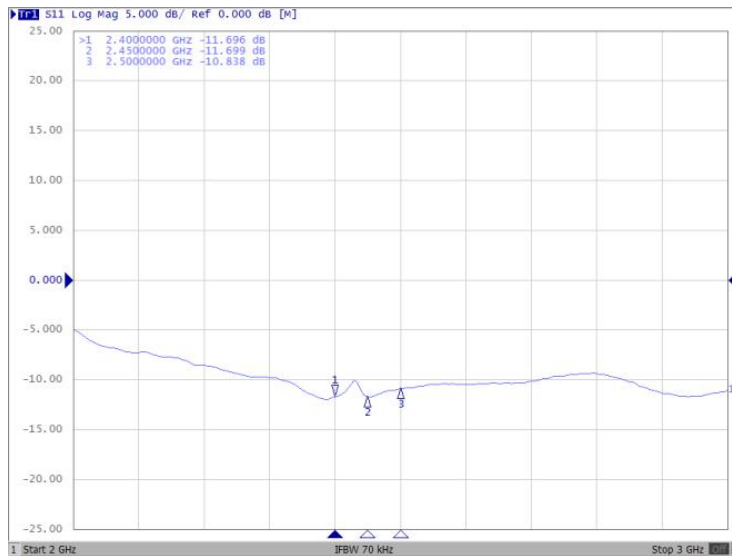
### 1.2.1 RF matching for different antennas



E1(0201)	NA
E2(0201)	0 ohm
E3(0201)	NA

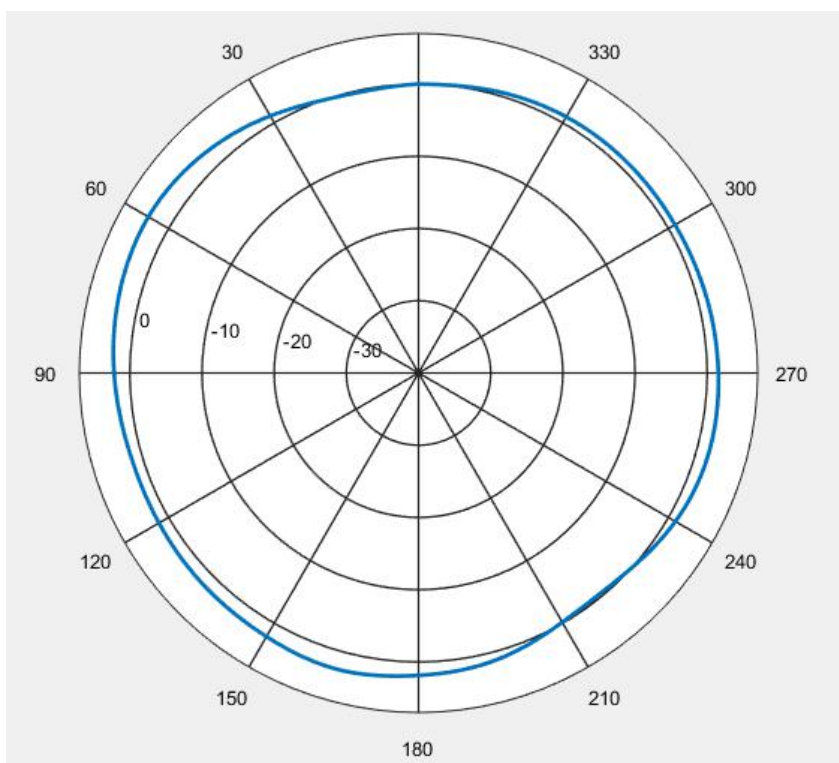
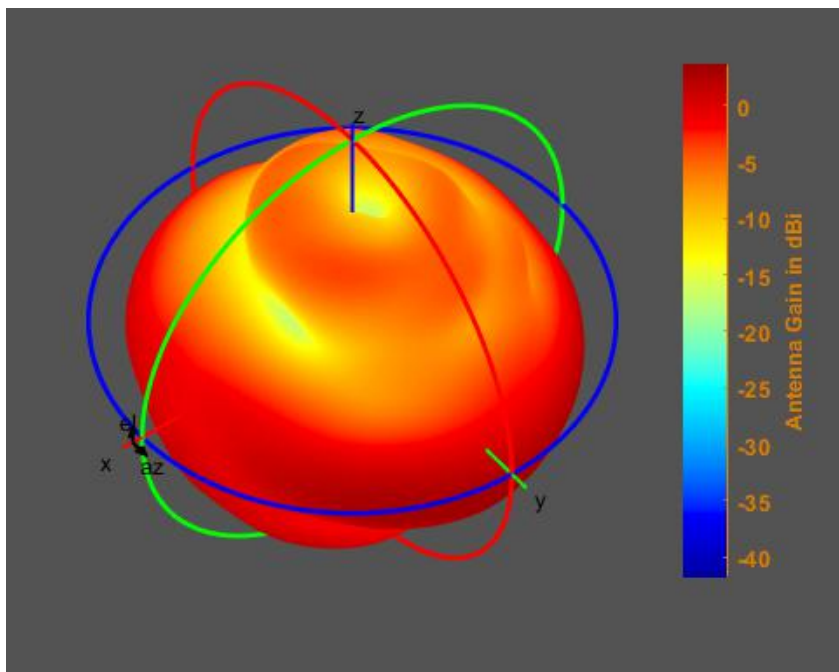
## 2.1. passive

S11:

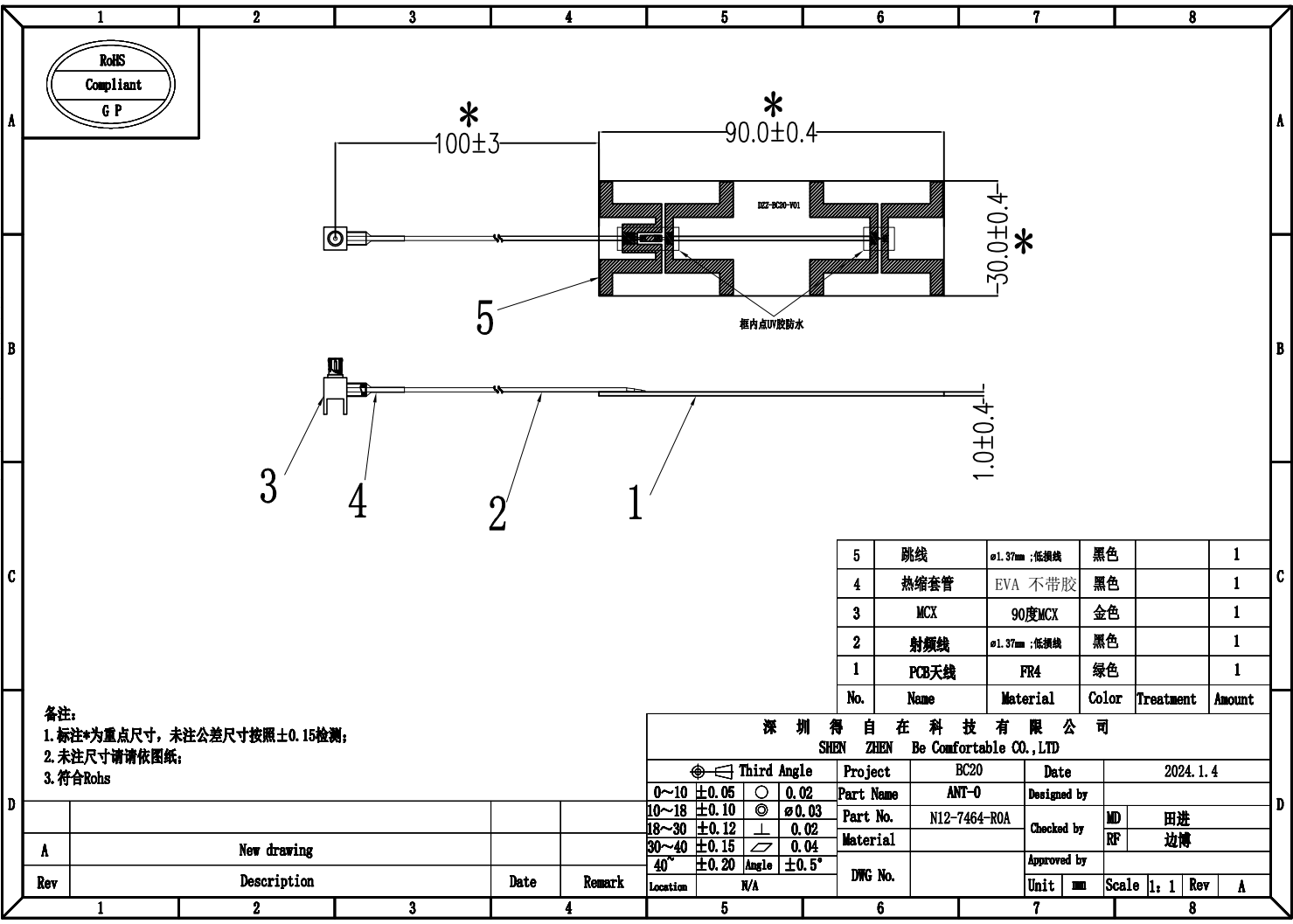


Frequency (MHz)	Gain(dB)	Efficiency(%)
2400	3.4387	63.3979
2410	3.2336	61.8866
2420	3.2236	65.0641
2430	3.3353	67.5064
2440	3.496	68.4562
2450	3.6745	71.2604
2460	3.8362	75.4746
2470	3.932	75.2622
2480	4.2609	76.9973
2490	4.2123	76.1136
2500	4.1451	74.4136

## 2.2 2D&3D



由 Autodesk 教育版产品制作



No.	Name	Material	Color	Treatment	Amount
5	跳线	∅1.37mm ;低阻抗线	黑色		1
4	热缩套管	EVA 不带胶	黑色		1
3	MCX	90度MCX	金色		1
2	射频线	∅1.37mm ;低阻抗线	黑色		1
1	PCB天线	FR4	绿色		1

备注:  
 1. 标注\*为重点尺寸, 未注公差尺寸按照±0.15检测;  
 2. 未注尺寸请依图纸;  
 3. 符合Rohs

深圳得自在科技有限公司 SHEN ZHEN Be Comfortable CO.,LTD					
Project	BC20	Date	2024.1.4		
Part Name	ANT-0	Designed by			
Part No.	N12-7464-ROA	Checked by	MD	田进	
Material		RF	边博		
Approved by					
DWG No.					
Unit	mm	Scale	1: 1	Rev	A

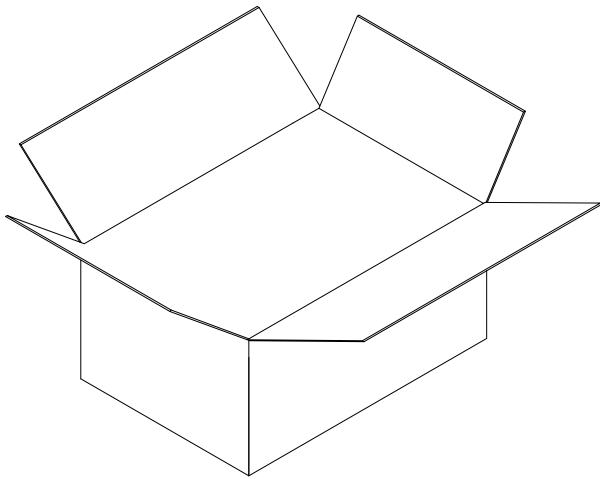
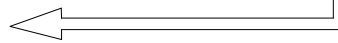
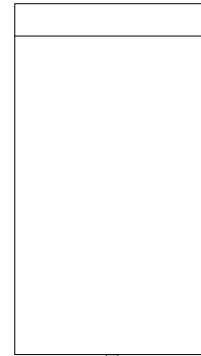
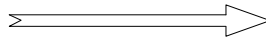
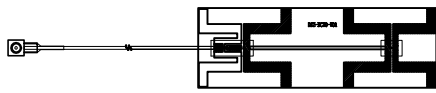
Rev	Description	Date	Remark
A	New drawing		

版本: A

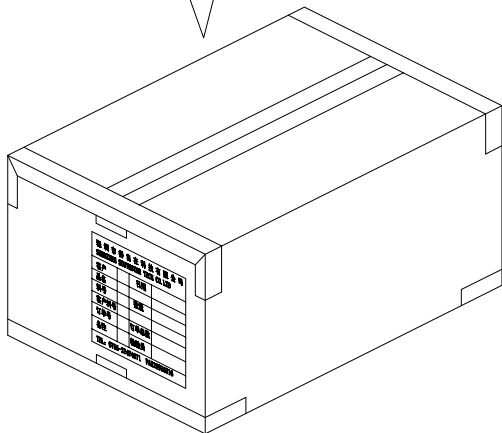
成品名称 :BC20成品天线

1)成品天线

二: 用PE袋



四: 装一箱, 以实际包装为准



五: 封箱, 外箱贴我司生产标签和  
**ROHS**标签.

批准: \_\_\_\_\_

确认: \_\_\_\_\_

拟制: \_\_\_\_\_

田进