

规格承认书

SPECIFICATION FOR APPROVAL

日期
DATE: 2023.5.24

版本
REV.: V1.0

客 户
CUSTOMER:

Shenzhen be-comfortable Technology Co. Ltd.

客 户 料 号

CUSTOMER P/N:

1603, Building C6, Hengfeng Industrial City, Shenzhen,China

品 名
PART NAME:

SRD221-b WIFI Antenna

供 方 料 号
SUPPLIER P/N:

1. SRD221-b -WIFI-1 2. SRD221-b -WIFI-2

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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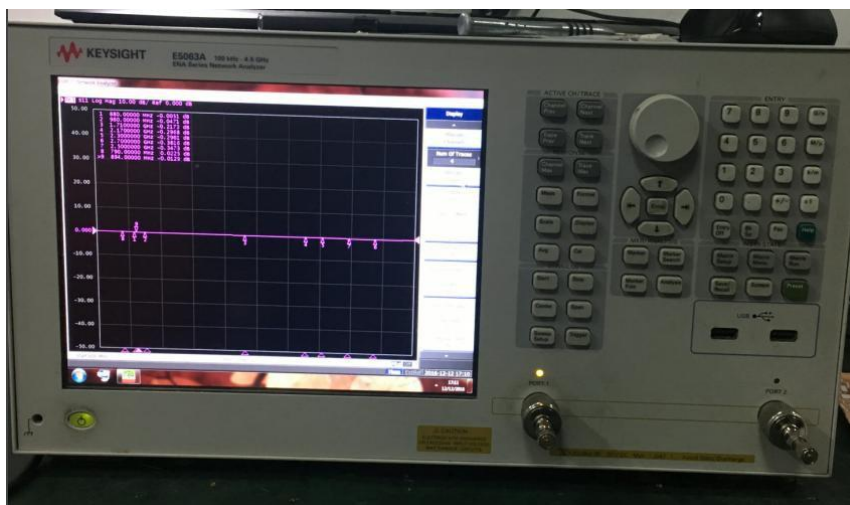
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1.RF Fixture Experiment

1.1 Test Setup

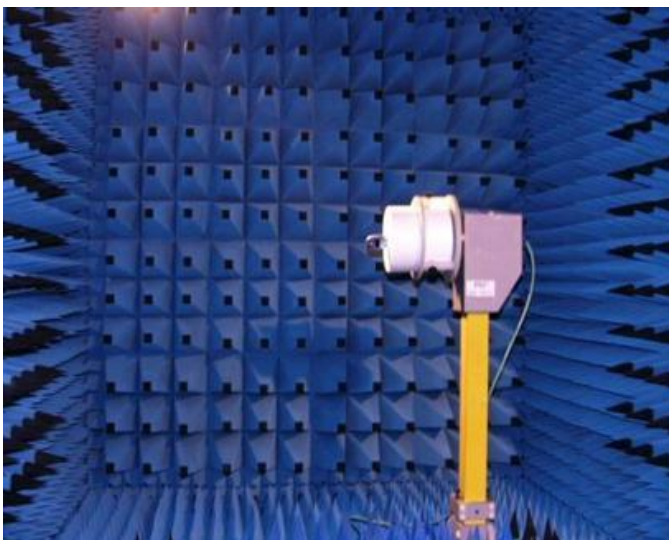
1.1.1 VNA Test Setup

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.



1.1.2 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 configuration

1.2.1 Antenna location pictures

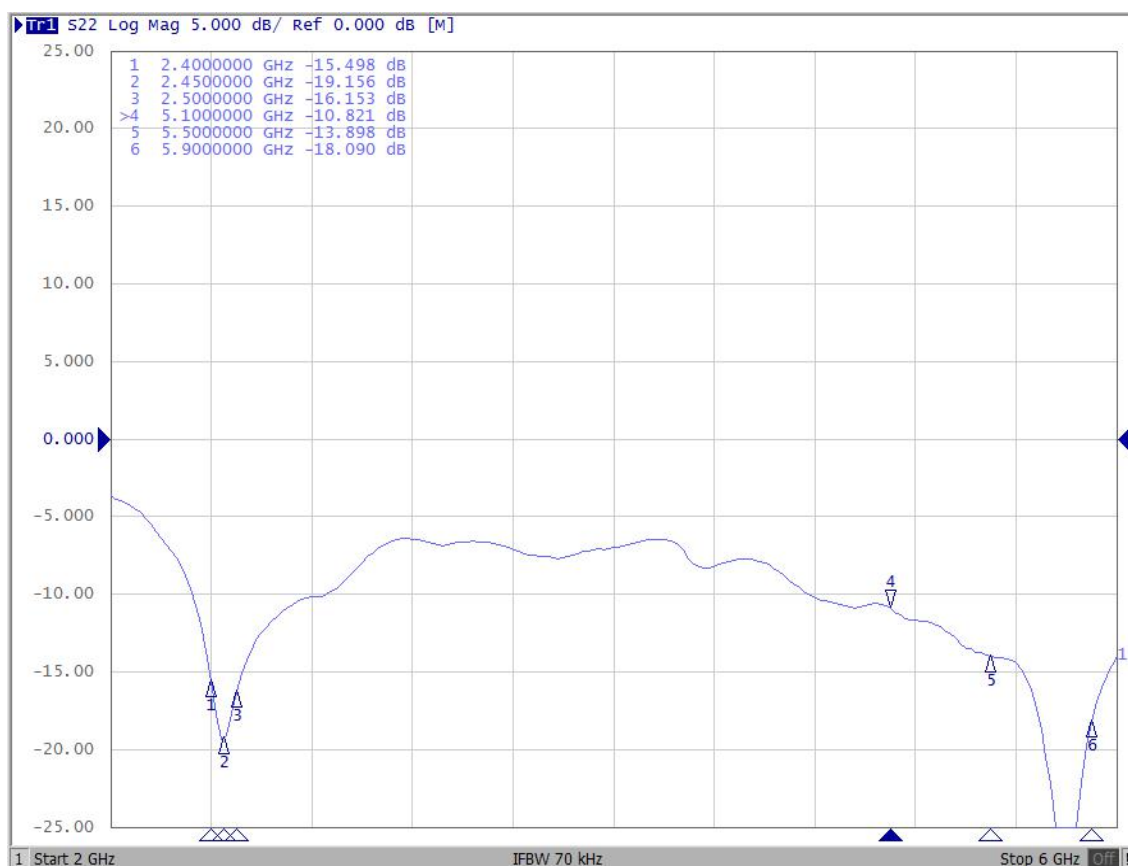


PCB Antenna

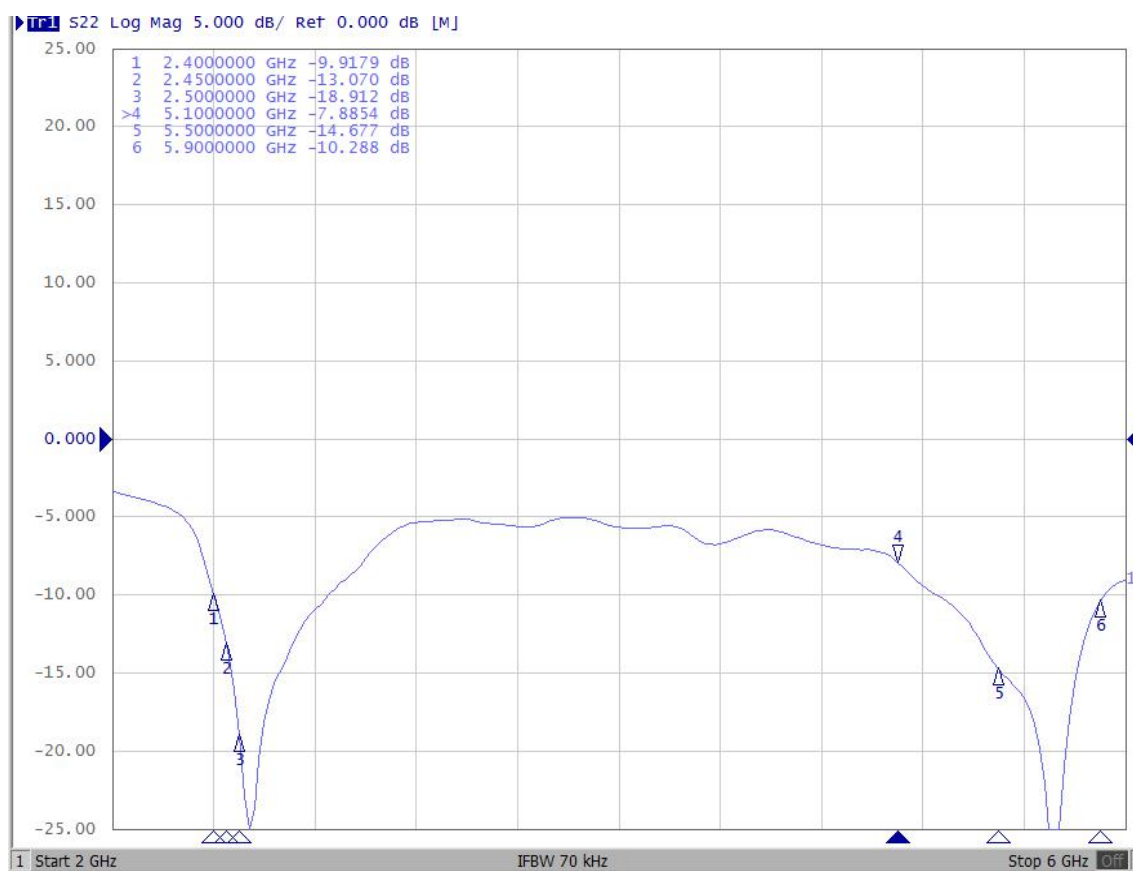
WIFI1 Ant1	2400~2500MHz 5100~5900MHz
WIFI2 Ant2	2400~2500MHz 5100~5900MHz

2.Test Report

ANT1



ANT2



2.3 Peak Gain & Efficiency

ANT1

Frequency (MHz)	Gain(dBi)	Efficiency (%)			
2400	2.56	49.78	2400	2.56	49.78
2410	2.64	50.65	5100	1.68	49.84
2420	2.78	52.73	5200	1.75	51.65
2430	2.86	53.57	5300	1.81	52.68
2440	3.05	53.45	5400	1.96	54.58
2450	3.15	54.08	5500	2.14	56.69
2460	3.05	53.79	5600	2.26	59.64
2470	2.87	52.48	5700	2.35	60.38
2480	2.75	52.54	5800	2.55	61.06
2490	2.66	51.75	5900	2.61	60.27
2500	2.59	50.71			

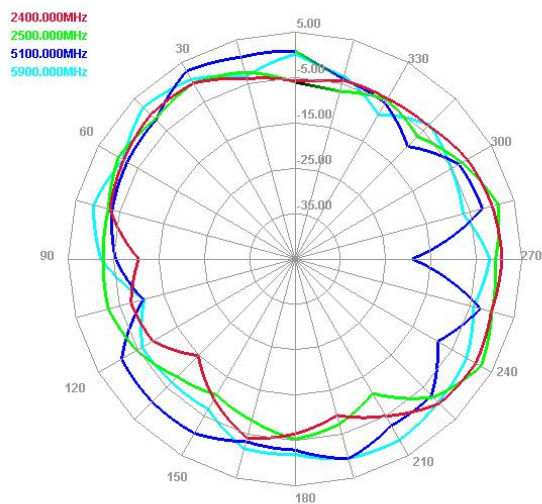
ANT2

Frequency (MHz)	Gain(dBi)	Efficiency (%)			
2400	1.89	48.25	2400	2.56	49.78
2410	2.01	49.31	1.71	44.48	49.84
2420	2.26	50.74	1.83	44.89	51.65
2430	2.34	51.36	1.89	45.18	52.68
2440	2.39	52.15	1.94	45.65	54.58
2450	2.48	52.89	2.09	46.17	56.69
2460	2.66	53.19	2.17	46.31	59.64
2470	2.51	53.69	2.21	47.03	60.38
2480	2.59	54.14	2.14	46.51	61.06
2490	2.62	54.34	2.07	46.18	60.27
2500	2.66	54.48			

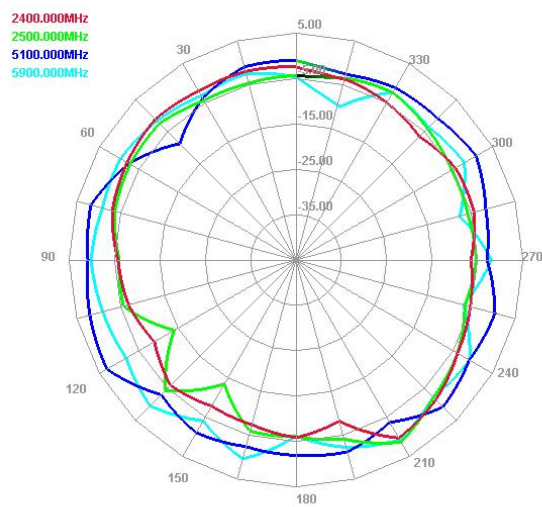
2.4 2D

ANT1

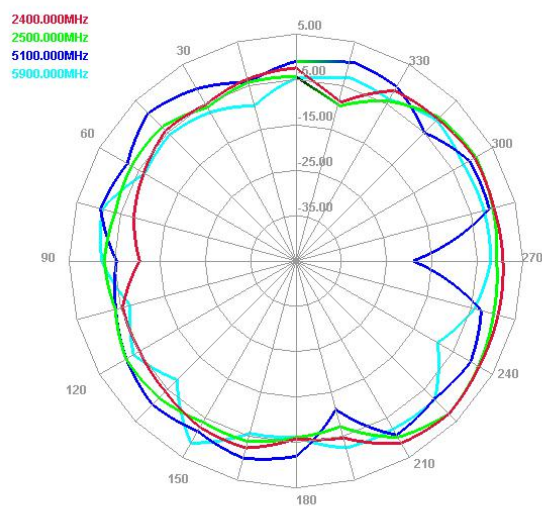
Horizontal



E1 Face

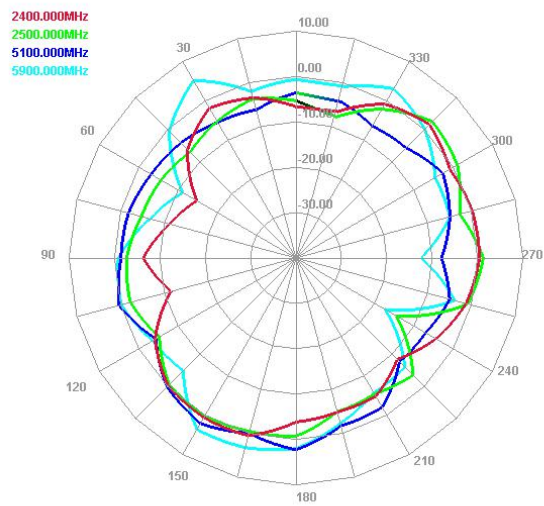


E2 Face

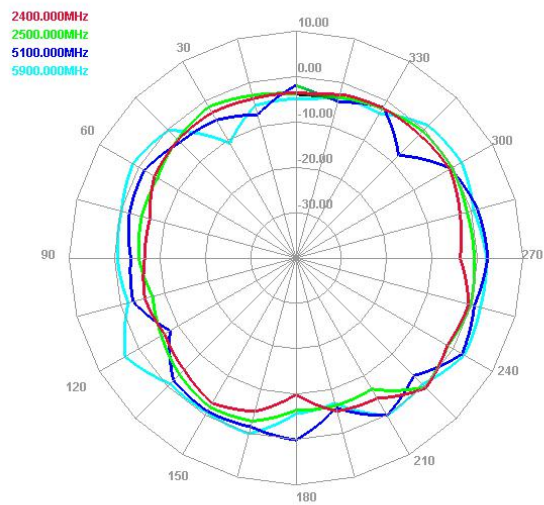


ANT2

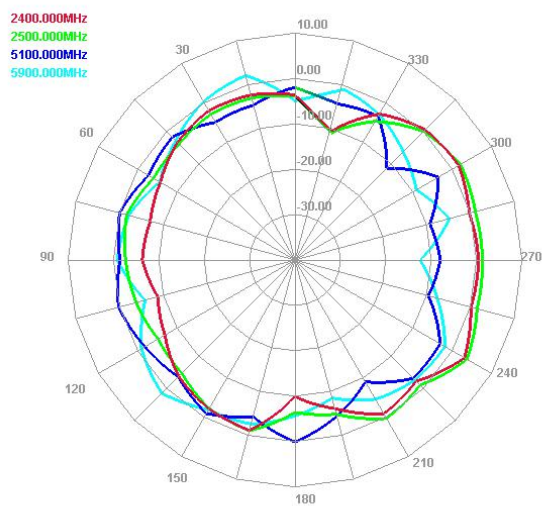
Horizontal



E1 Face

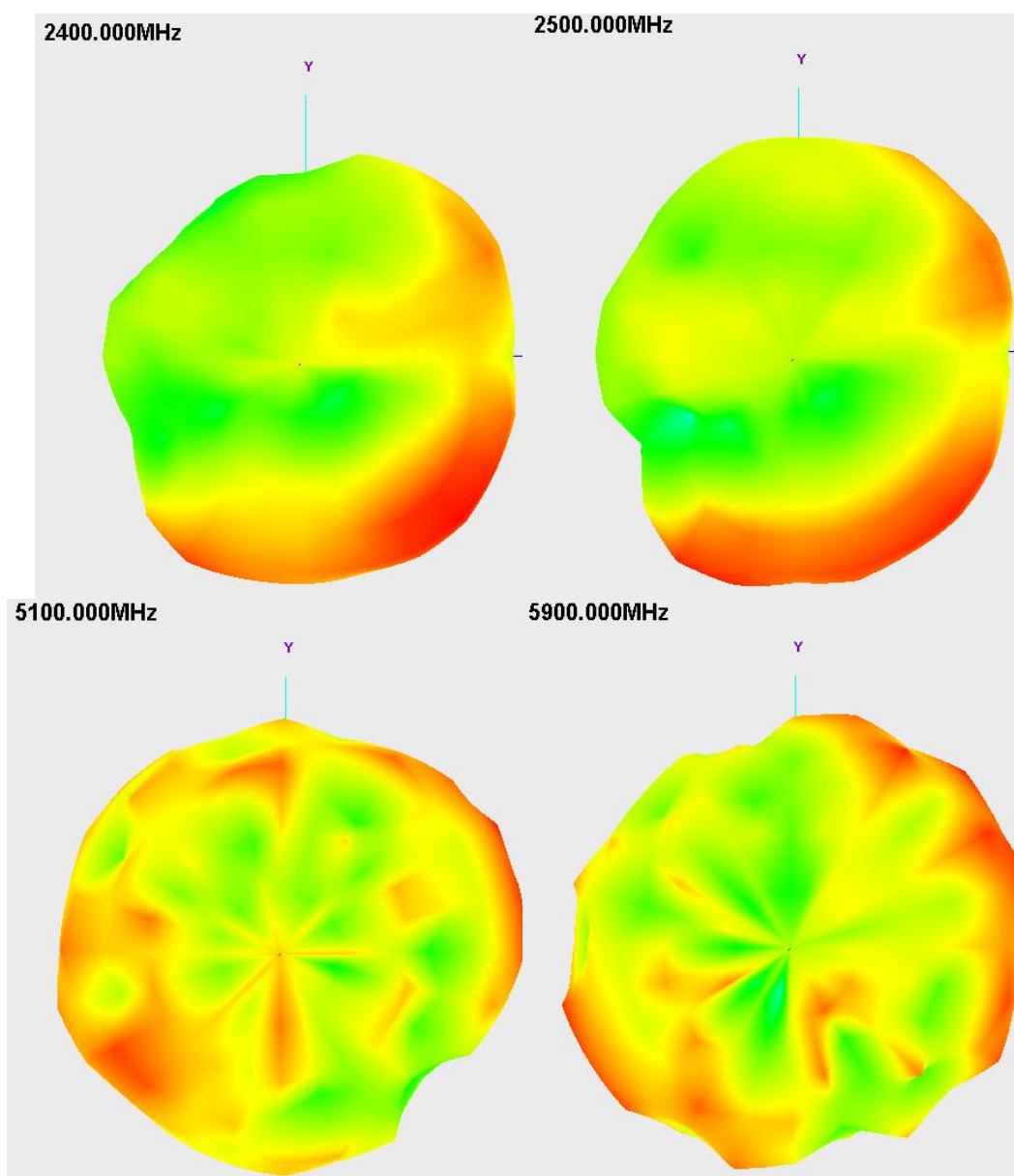


E2 Face



2.5 3D

ANT1



ANT2

