上海增信电子有限公司
Signal Plus Technology Co., Ltd.

规 格 承 认 书
SPECIFICATION FOR APPROVAL

日期
DATE: 2024.01.23

版本
REV.: A

客 户
CUSTOMER: Shanghai Liulian Intelligent Technology Co., LTD

Address: 2405-06, Baotai Building,1 82 Design Park,1 82 Bulan Road,Lilan gComm unity,Nan wan Street,Lon ggangDistrict ,Shen zhen

型 号
Model: 0583-X2-Left

品 名
PART NAME: 内置 2.4G&5G WiFi FPC天线，1.13黑色普通线L=130mm with RF CONN(4代) for ARB39 主端口

供 方 料 号
SUPPLIER P/N: 6241F00017

送样日期Date: 送样数量Q'TY: Pcs

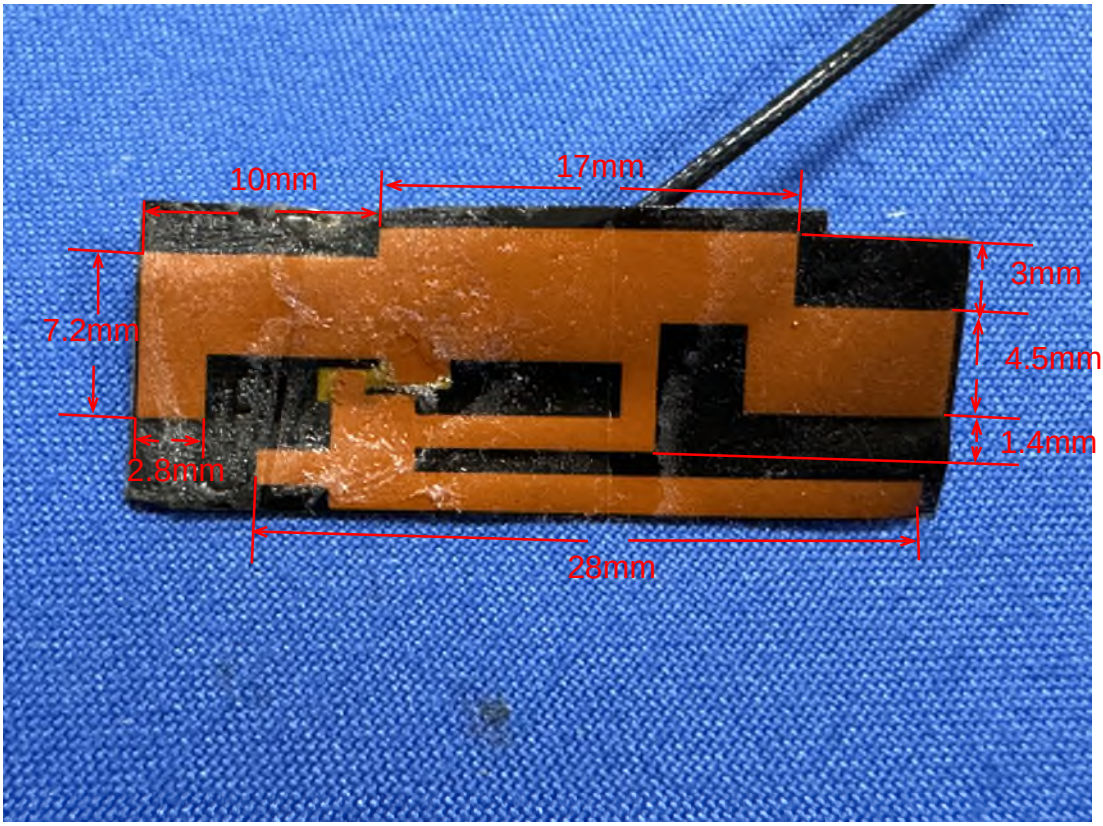
客户确认CUSTOMER APPROVED BY		
核准 Approvaled by	审核 Checked by	确认 Confirmed by

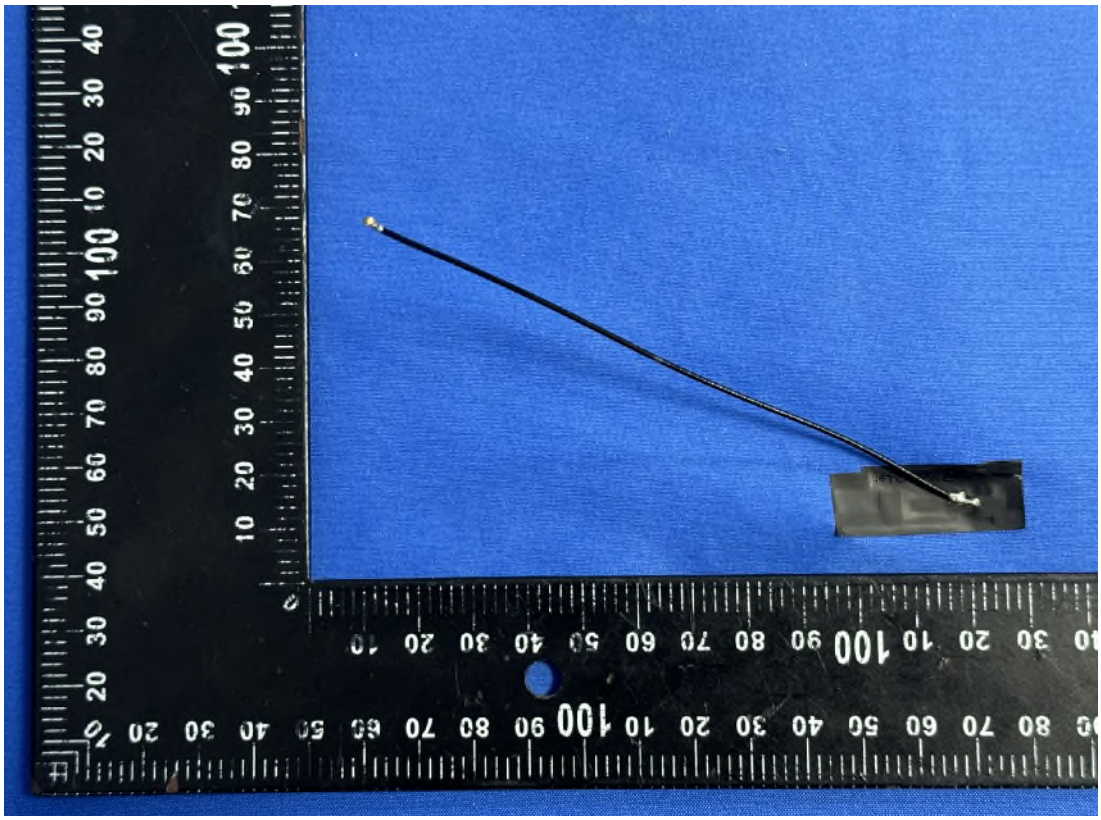
供方确认SUPPLIER SIGNATURE		
核准 Approvaled by	审核 Checked by	拟制 Prepared by
Andy		Cindy

Add:上海市徐汇区桂箐路69号30栋603室 Tel:021-54266190 Fax:021-54266191

Contents

Antenna size





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Antenna Test Report

©V2

2024.1.19

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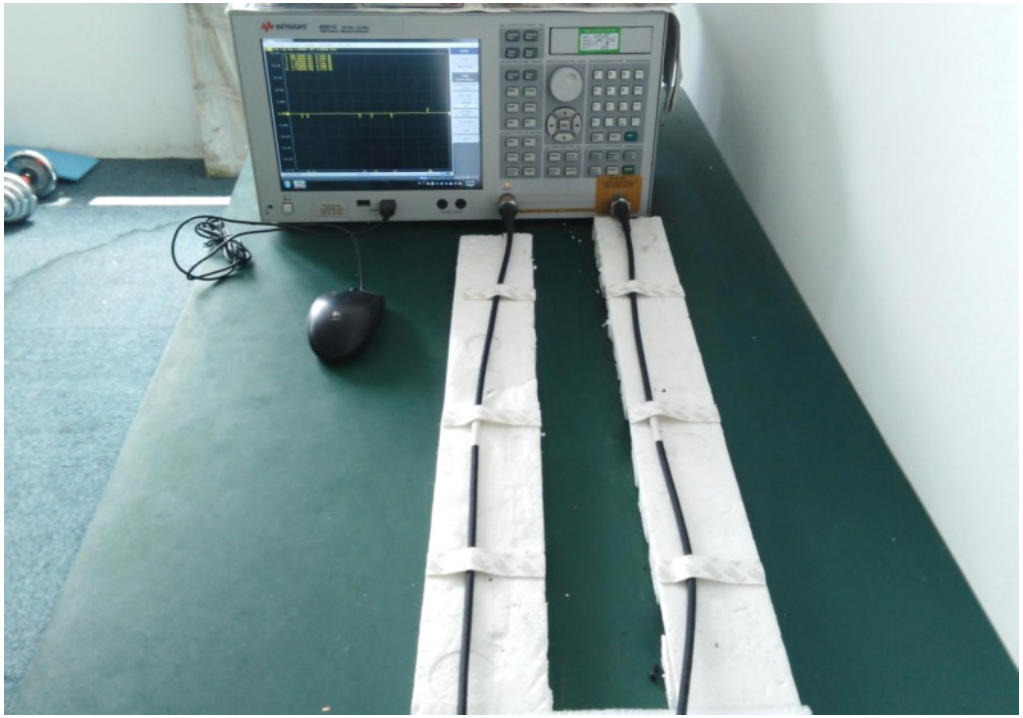
List of contents

1.Test system description---S Parameter

1.1.Test Setup

1.1.1 VNA Test Setup

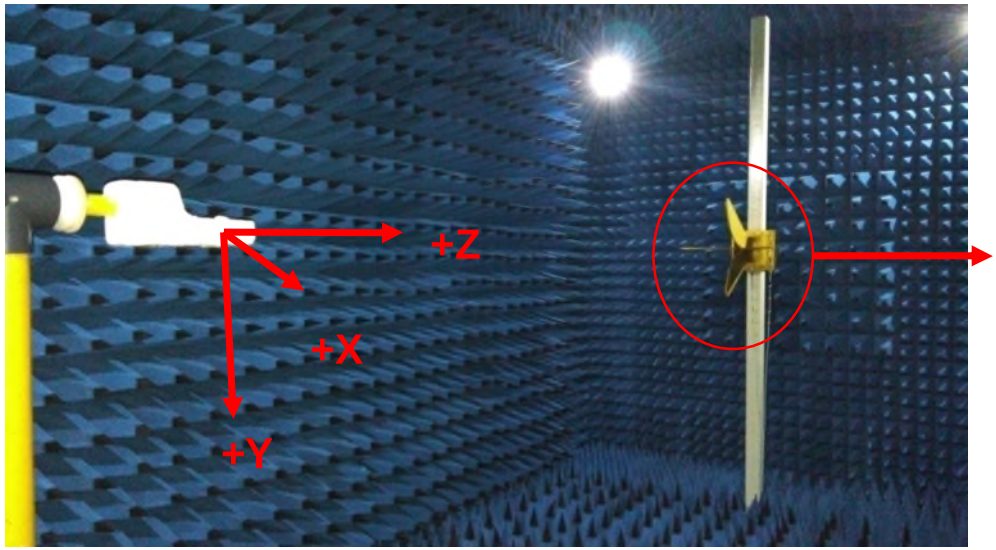
S parameter measurements (S) were performed using an KeySight E5071C Network Analyzer and previously described tests fixtures. The isolation between antennas is also tested. The testing was performed with apparatus in free space.

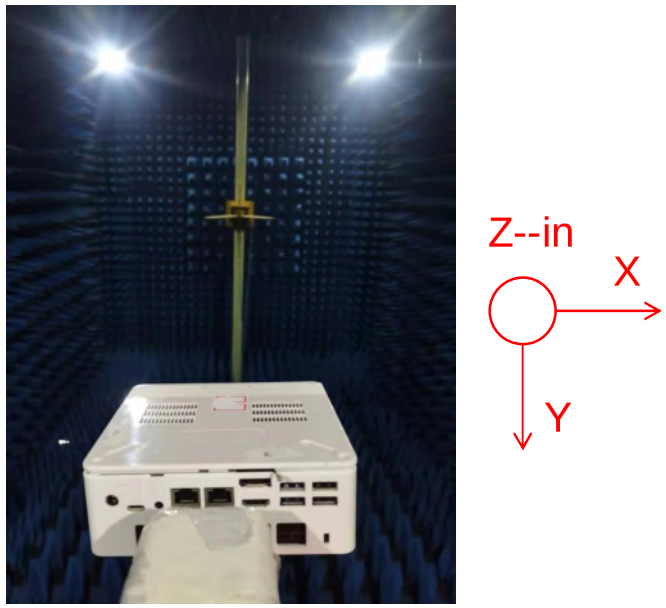


1.Test system description--- Anechoic Chamber Test Setup

1.1.2 Anechoic Chamber Test Setup

The gain of the antenna was measured in the anechoic chamber(ETS 3D). The chamber provides less than –30 dB reflectivity from 400 MHz through 6 GHz. The chamber size is:7m*4m*3m.The measurement results are calibrated using a leaky wave horn standard. We can measure the antenna gain and efficiency accurately.





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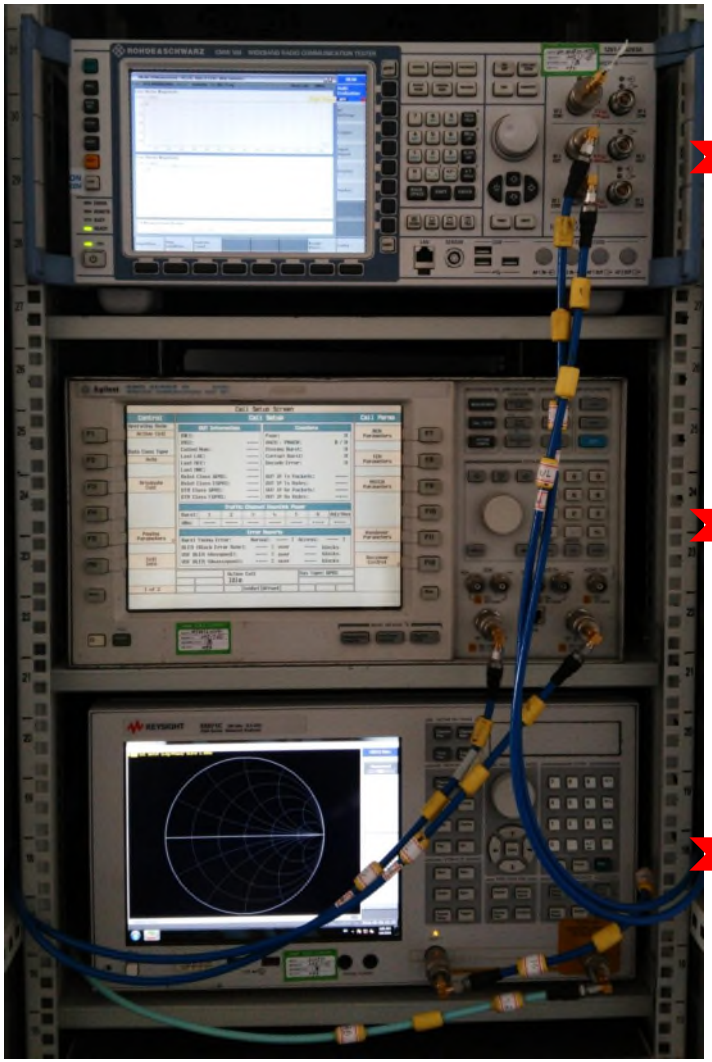
1.Test system description--- Test Instruments

1.1.3 Instruments



R&S CMW500
4G/WIFI
（LTE/WIFI b/g/a）

Agilent 8960
2G/3G
（GSM/CDMA/WCDMA）

KeySight E5071C
(400MHz~6GHz)

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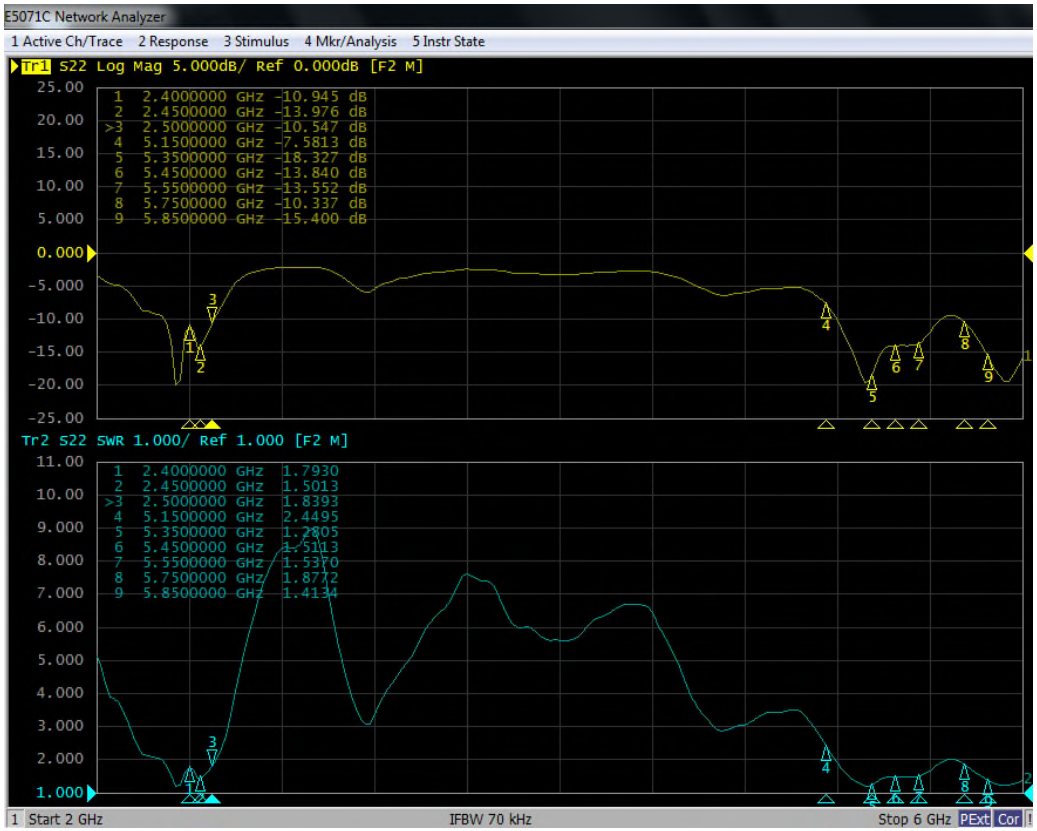
2. Antenna Solution

2.1 Antenna Location Pictures for passive

3.Test Result---Return Loss

S11(Main):



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3.Test Result---Efficiency、Gain

Data :

Freq. (MHz)	Gain (dBi	Efficiency (%)

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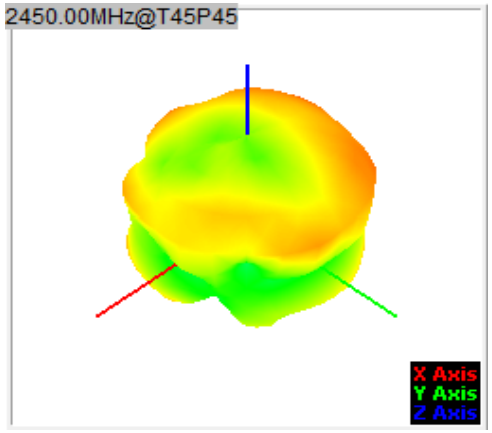
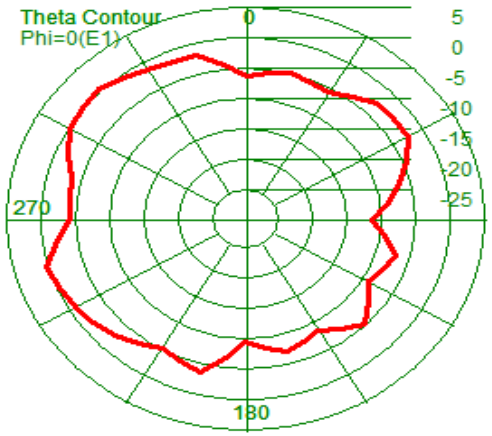
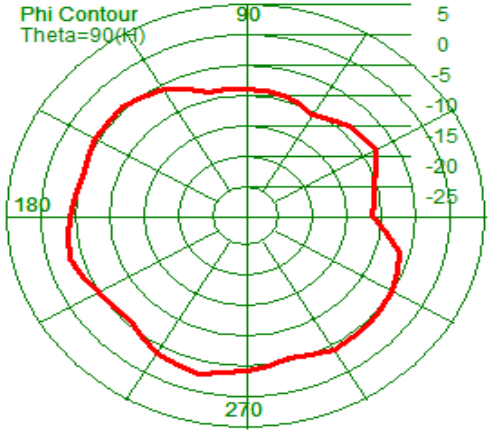
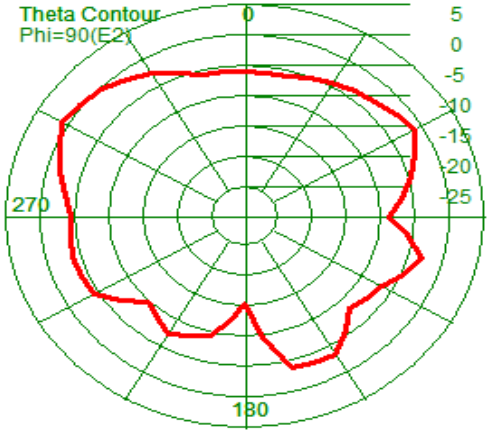
3.Test Result---Efficiency、Gain

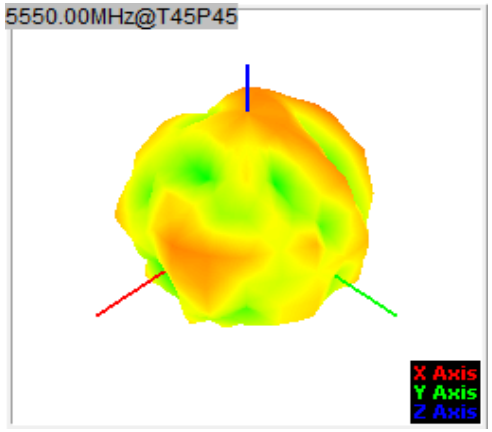
Radiation patterns:

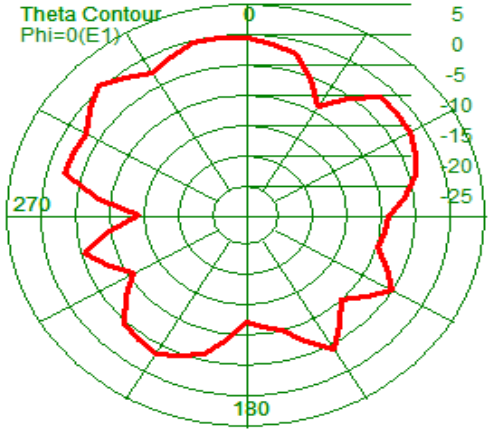


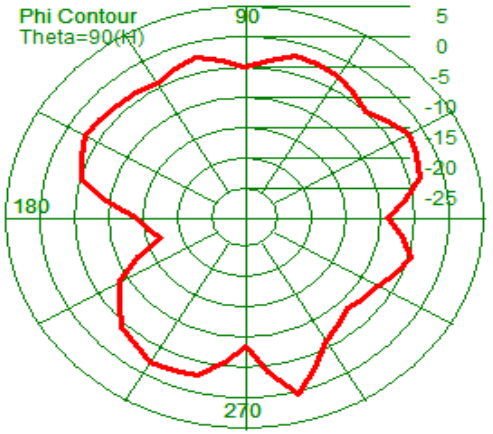


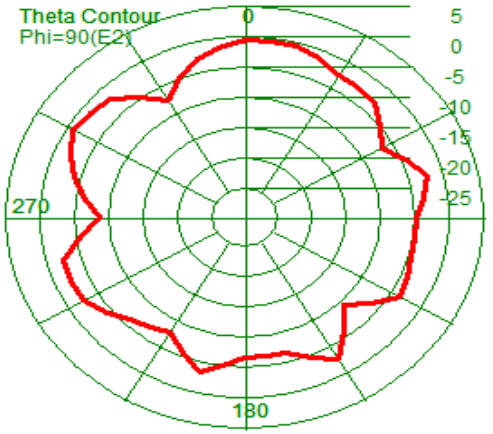












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3.Test Result---Active data

Mode	Channel		
2.4G 802.11 g/n			
5G 802.11a/n			

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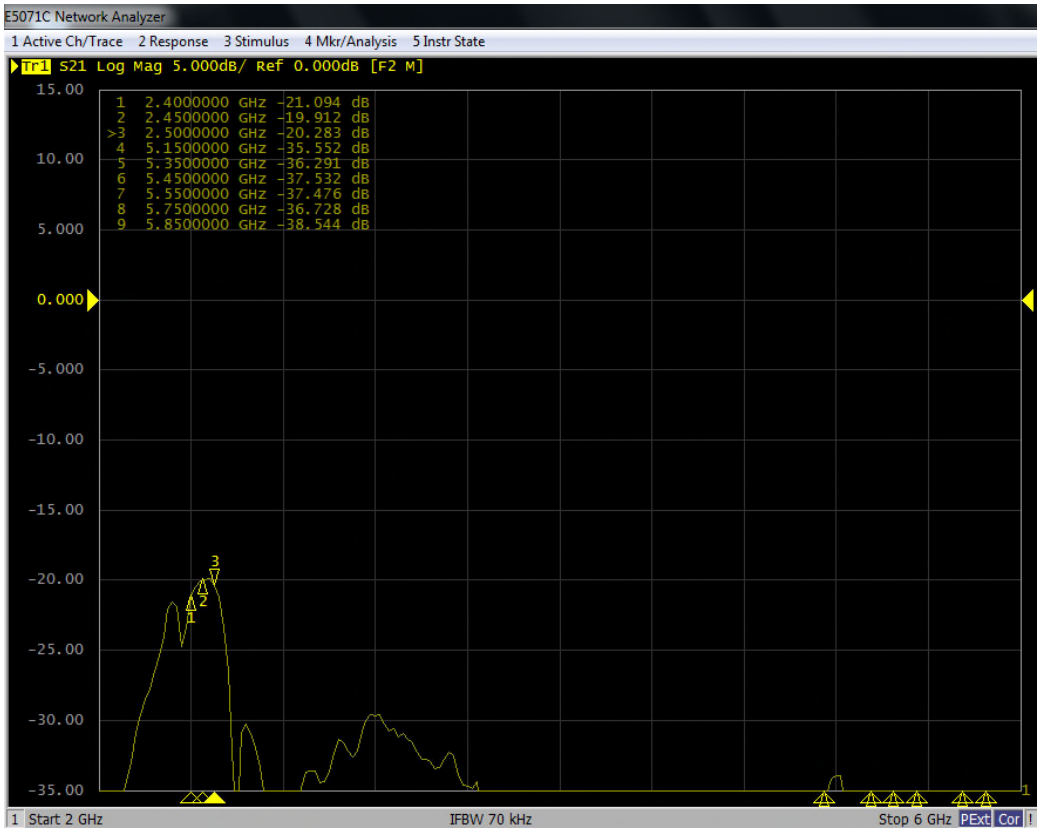
4.Isolation



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