



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: 2021.10.13

版本  
REV.: A

客 户  
CUSTOMER:

客 户 料 号  
CUSTOMER P/N:

品 名  
PART NAME: 2.4-2.5GHz&5.15-5.85GHz 4dBi PCB antenna white 220mm 1.37 LL cable  
with RF CONN connector and foam for Oban 50

供 方 料 号  
SUPPLIER P/N: 6000F00067

送样日期Date: 送样数量Q'TY: Pcs

| 客户确认CUSTOMER APPROVED BY |                  |                    |
|--------------------------|------------------|--------------------|
| 核准<br>Approved by        | 审核<br>Checked by | 确认<br>Confirmed by |
|                          |                  |                    |

| 供方确认SUPPLIER SIGNATURE |                  |                   |
|------------------------|------------------|-------------------|
| 核准<br>Approved by      | 审核<br>Checked by | 拟制<br>Prepared by |
| Andy                   |                  | Cindy             |

ZX-QT-RD-0011-A1

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

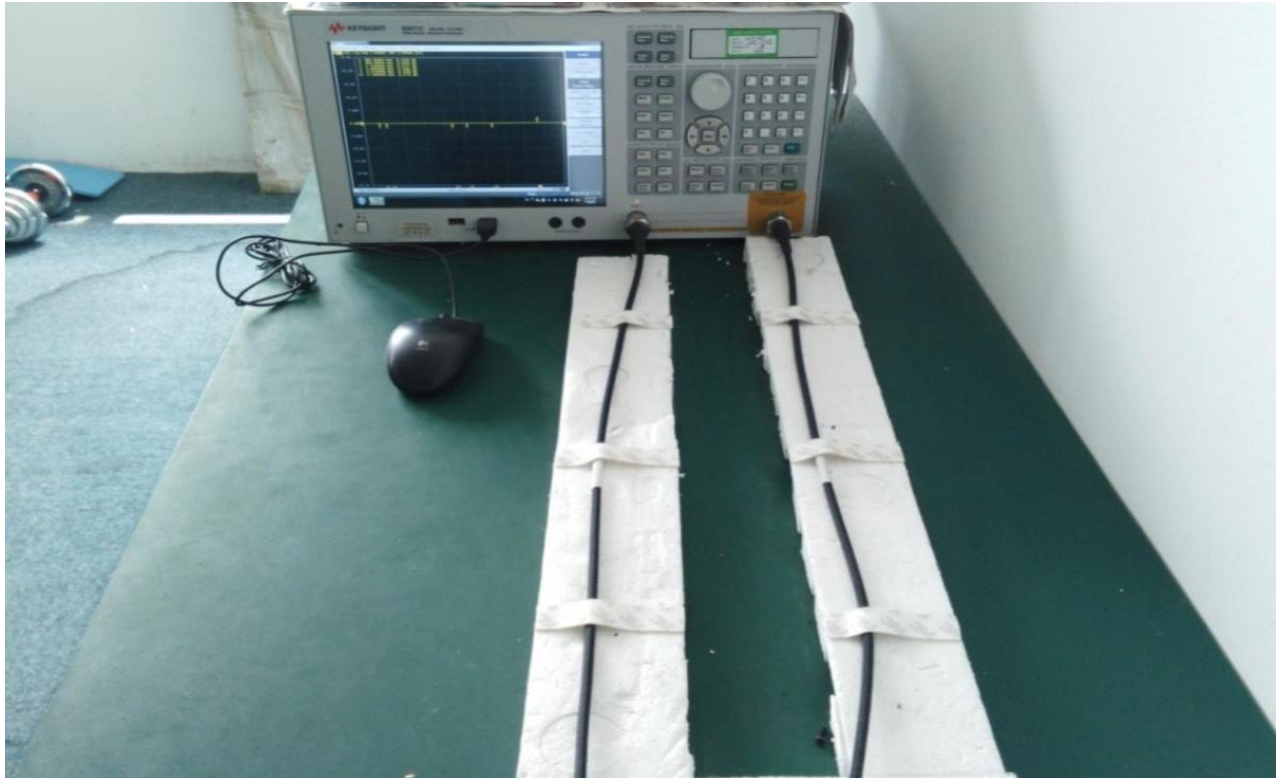
## Antenna Solution



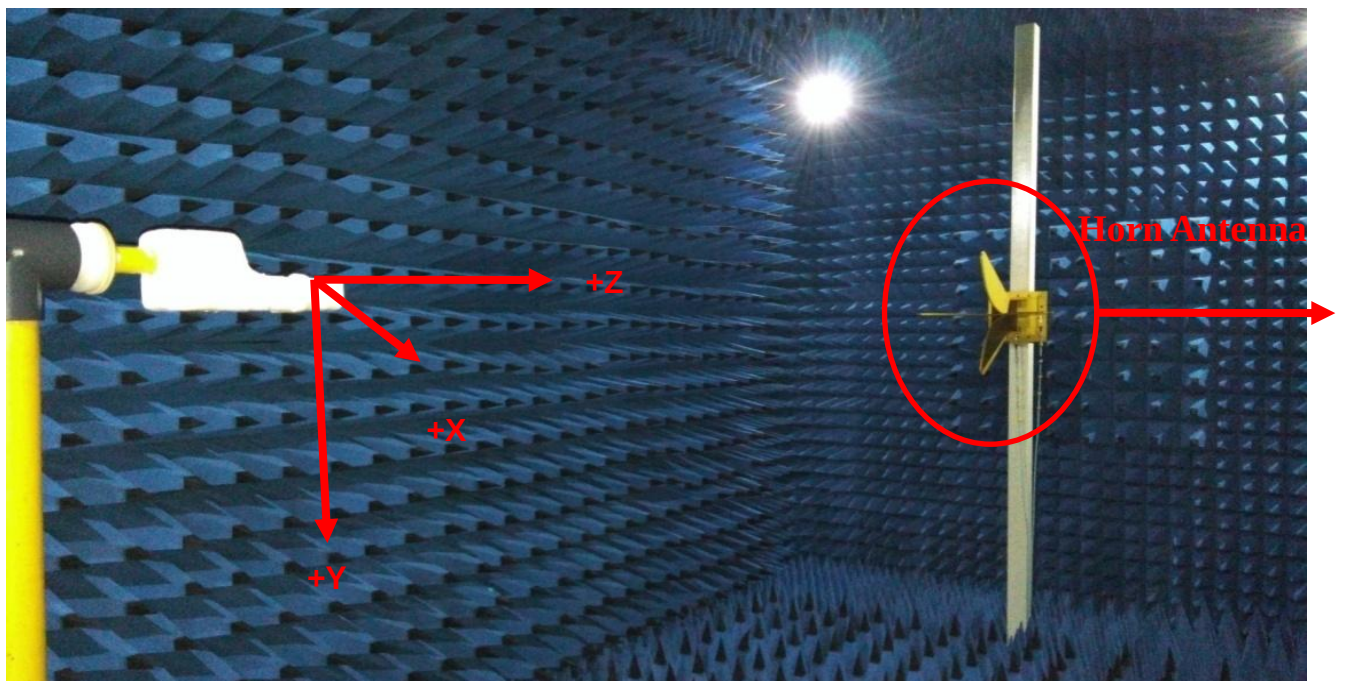
## 1. RF Fixture Experiment

### 1.1 Test Setup

#### 1.1.1 VNA Test Setup



#### 1.1.2 Anechoic Chamber Test Setup



## Data Preview

### 2.4&5G-1:

| Freq.(MHz) | 2400 | 2450 | 2500 | 5150 | 5350 | 5450 | 5550 | 5750 | 5850 |
|------------|------|------|------|------|------|------|------|------|------|
| VSWR       | 1.35 | 1.15 | 1.08 | 1.25 | 1.41 | 1.33 | 1.28 | 1.51 | 1.63 |
| Gain(dBi)  | 4.07 | 4.01 | 4.04 | 3.37 | 3.24 | 3.34 | 3.64 | 3.30 | 3.60 |

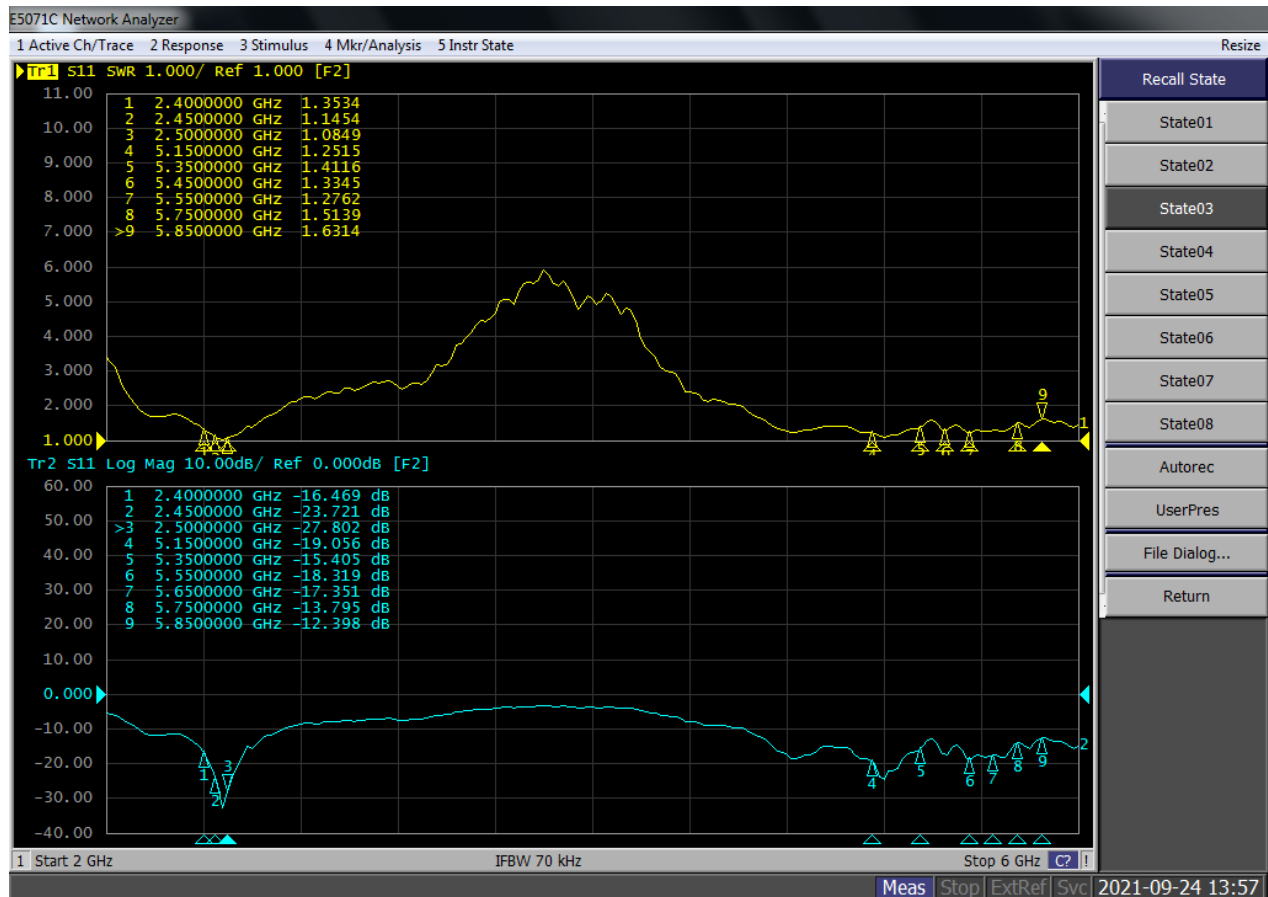
### 2.4&5G-2:

| Freq.(MHz) | 2400 | 2450 | 2500 | 5150 | 5350 | 5450 | 5550 | 5750 | 5850 |
|------------|------|------|------|------|------|------|------|------|------|
| VSWR       | 1.48 | 1.29 | 1.17 | 1.16 | 1.68 | 1.33 | 1.21 | 1.75 | 1.71 |
| Gain(dBi)  | 4.08 | 4.09 | 4.07 | 3.48 | 3.15 | 3.47 | 3.64 | 3.24 | 3.58 |

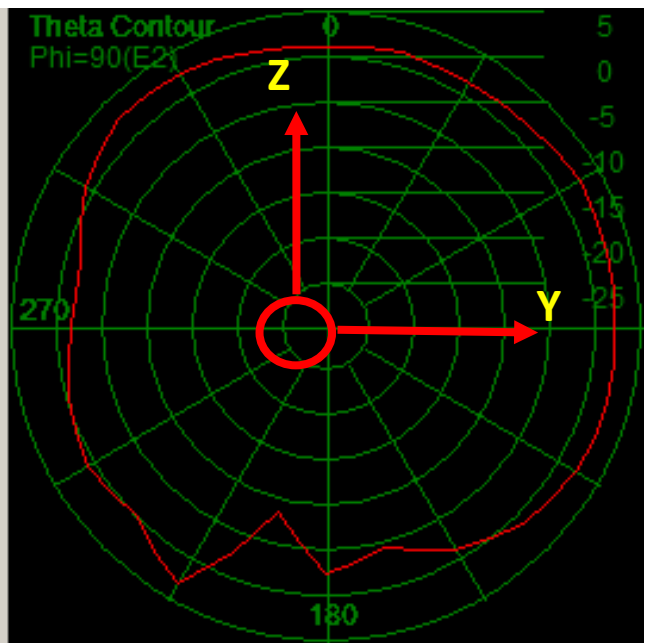
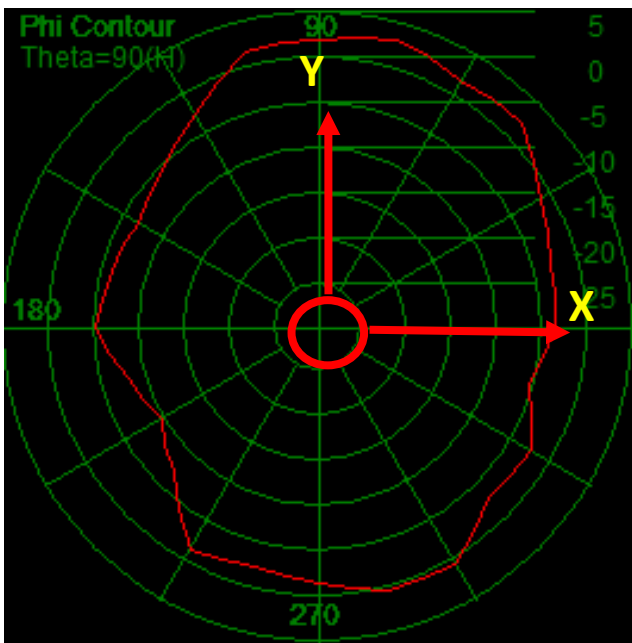
### S21-Ant1,Ant2

| Freq.(MHz)    | 2400   | 2450   | 2500   | 5150   | 5350   | 5450   | 5550   | 5750   | 5850   |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Isolation(dB) | -37.96 | -34.74 | -34.91 | -35.14 | -38.77 | -39.35 | -40.18 | -39.06 | -38.60 |

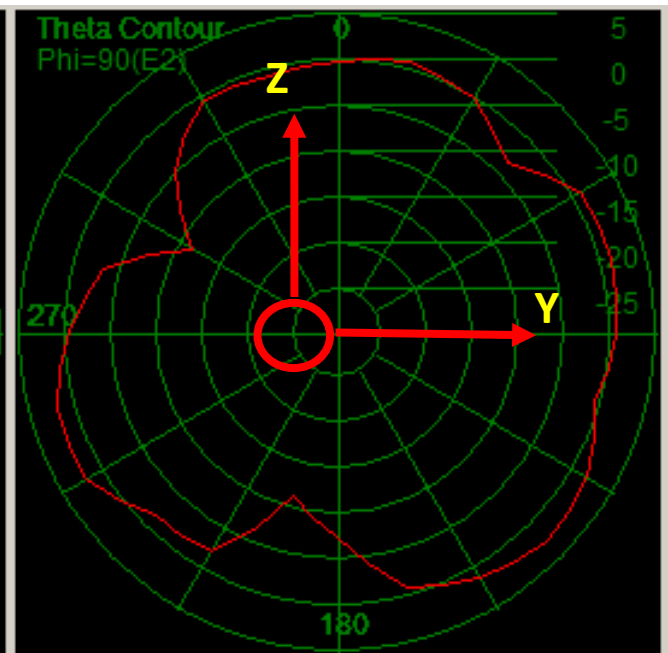
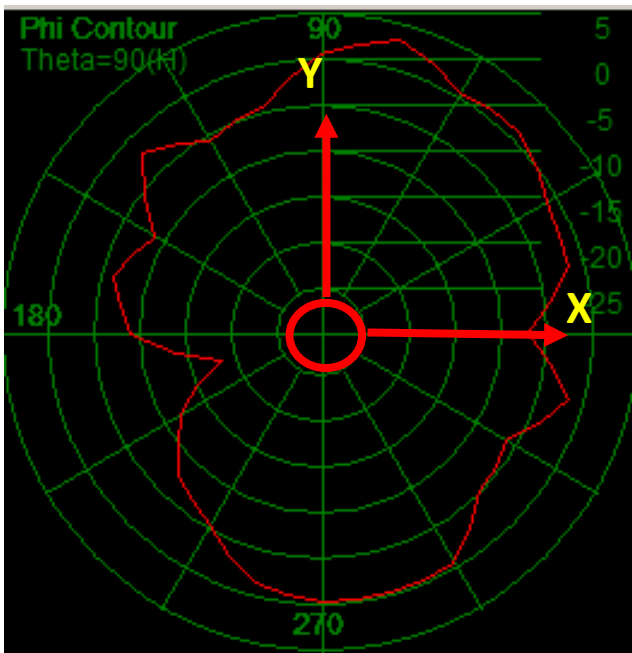
# S11(2.4G&5G-Ant1)



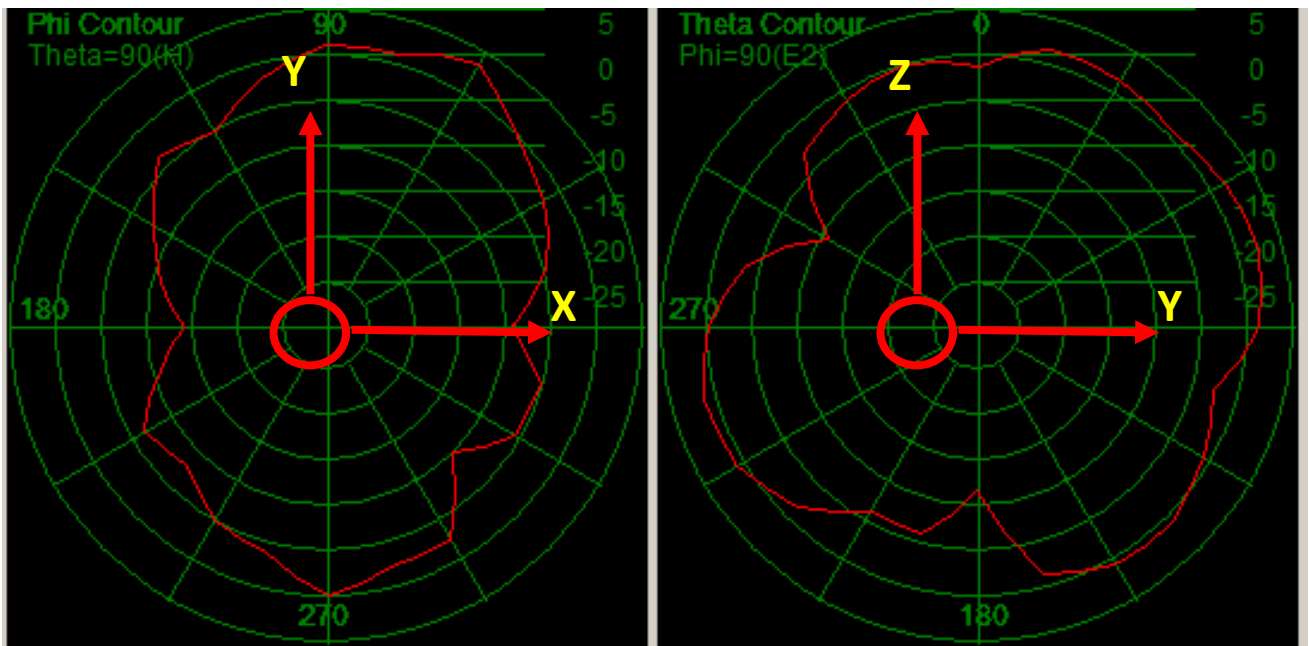
## Radiation patterns:2D:2450MHz



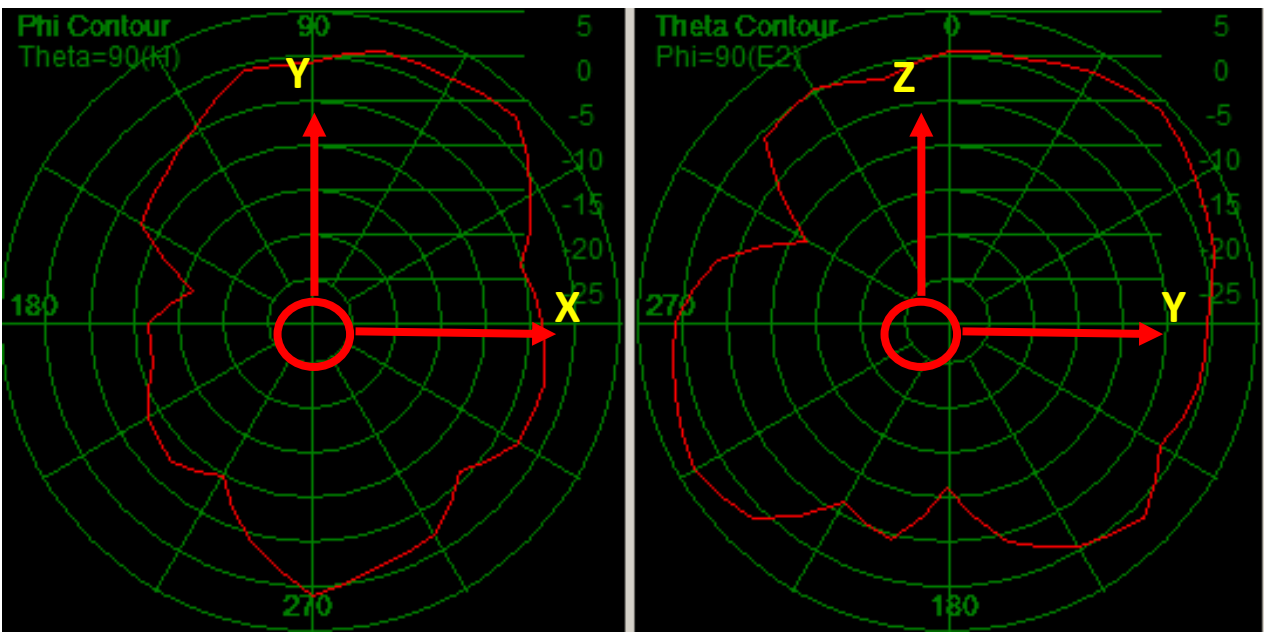
## Radiation patterns:2D:5150MHz



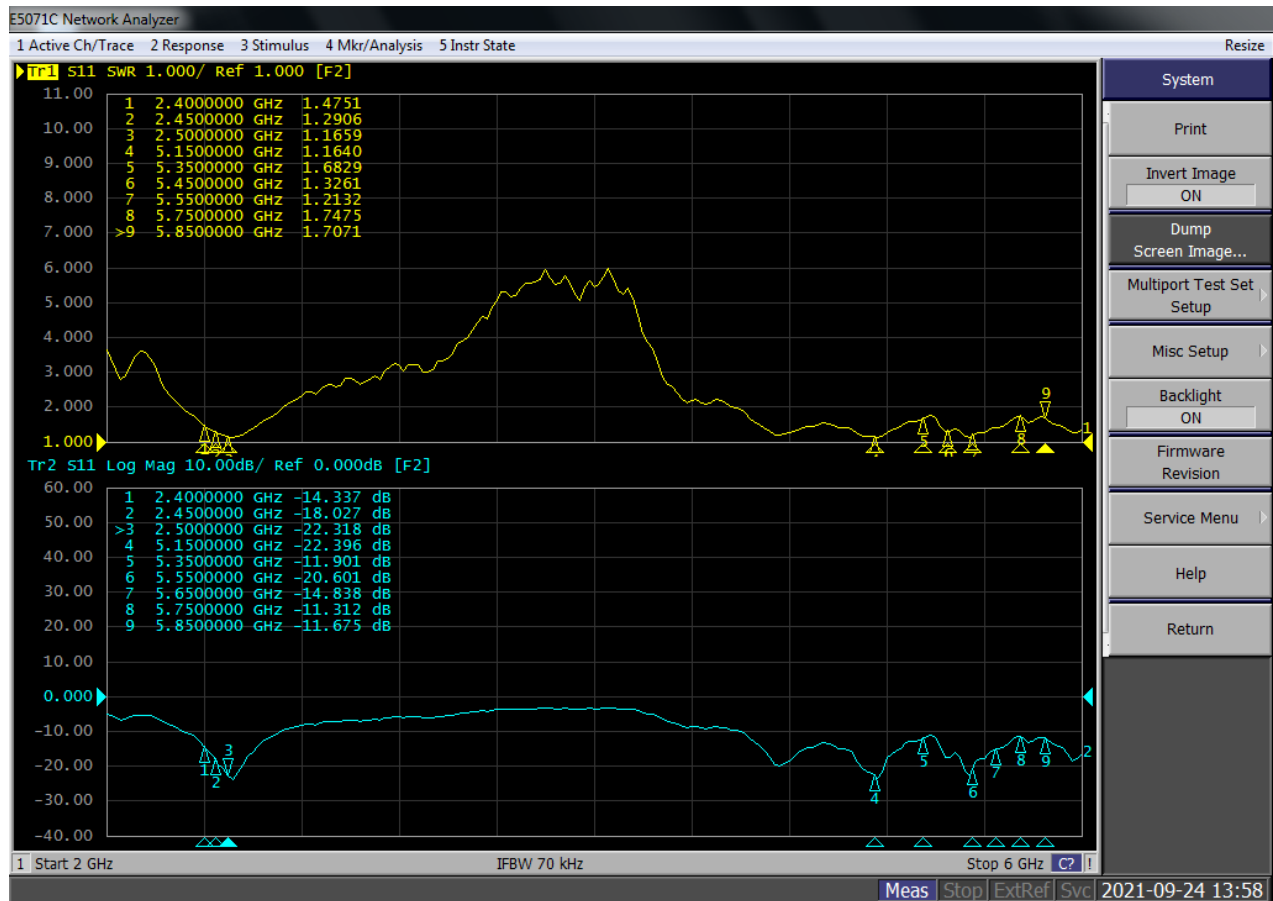
Radiation patterns:2D:5550MHz



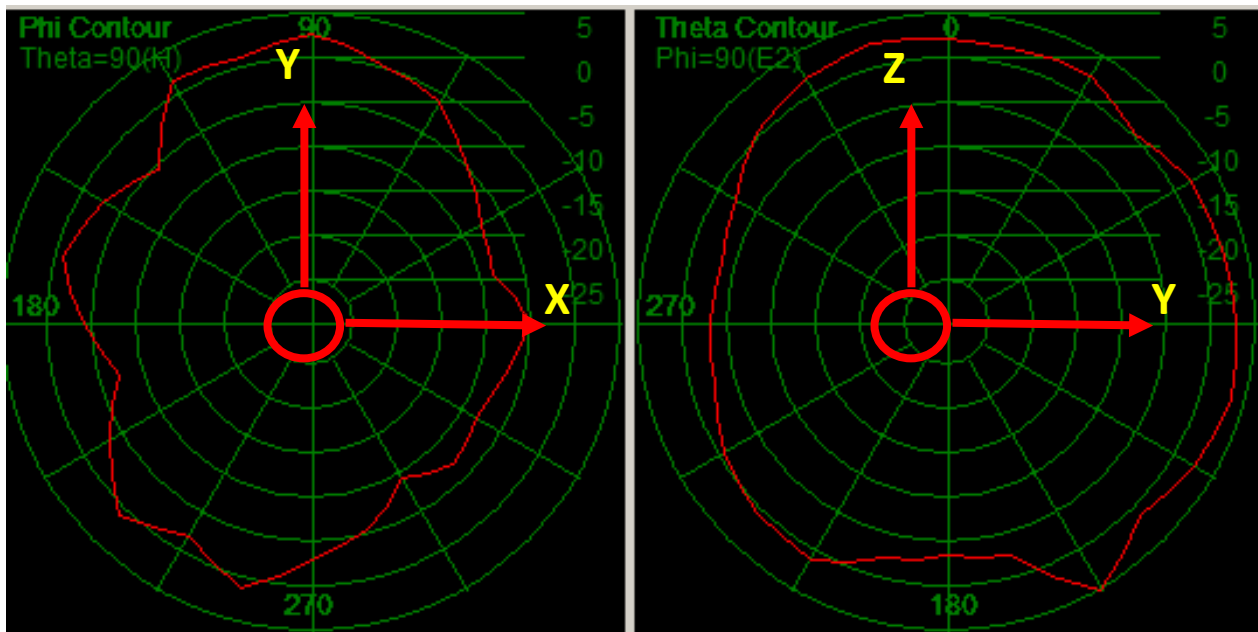
Radiation patterns:2D:5850MHz



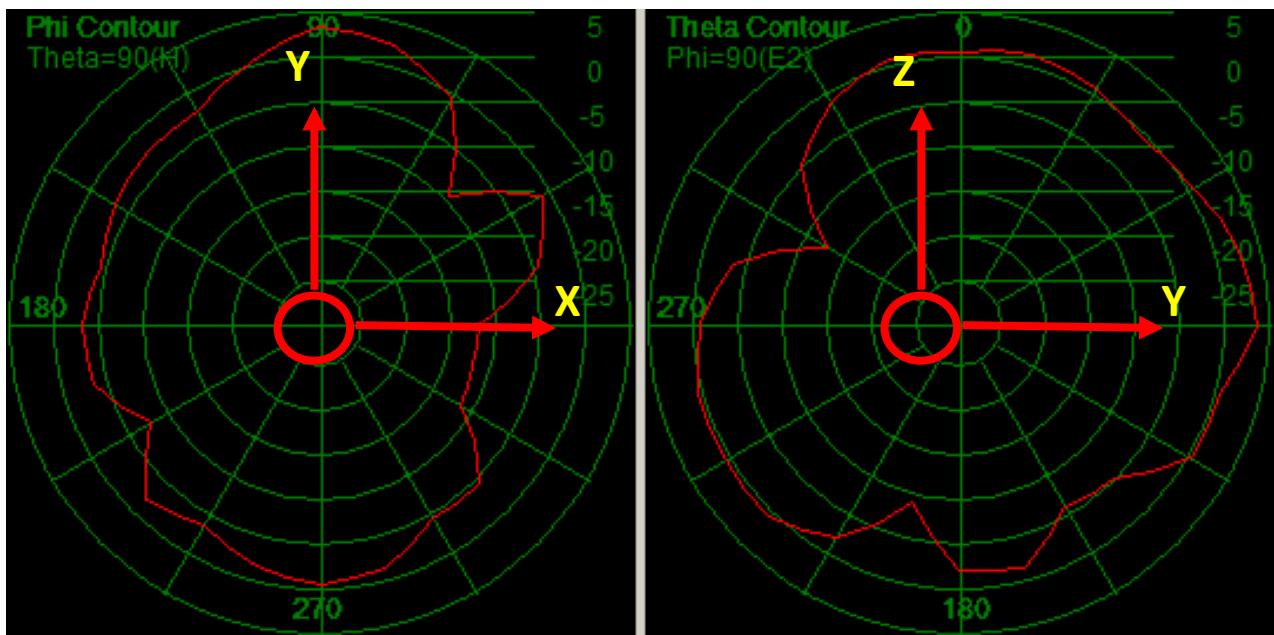
# S11(2.4G&5G-Ant2)



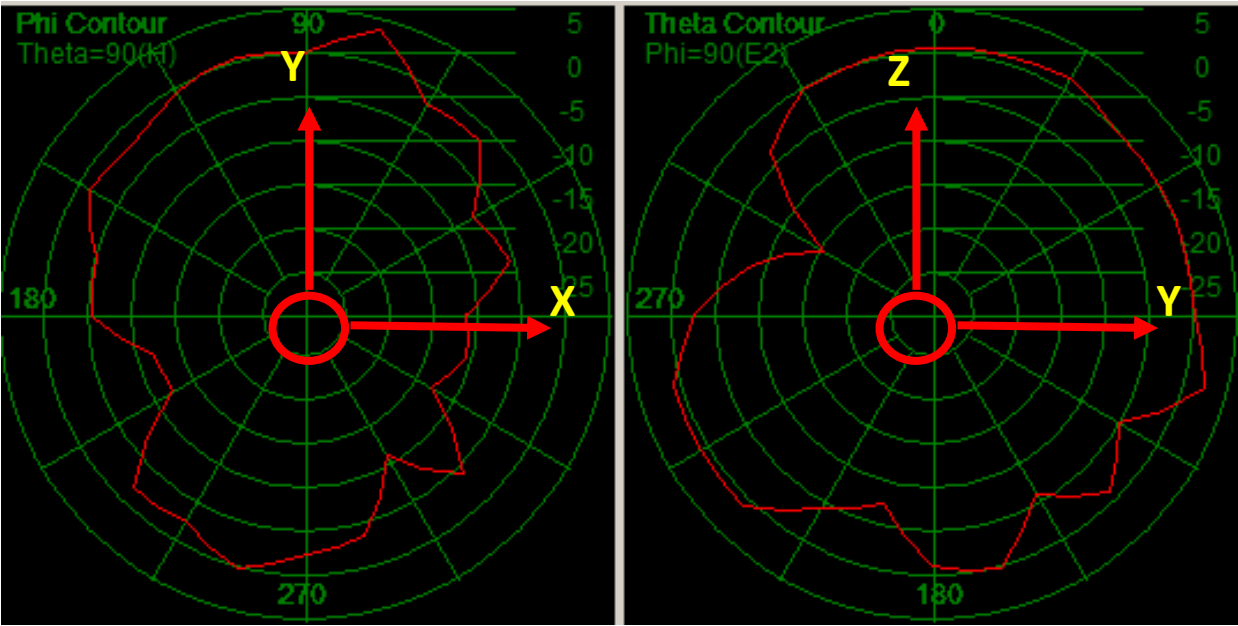
## Radiation patterns:2D:2450MHz



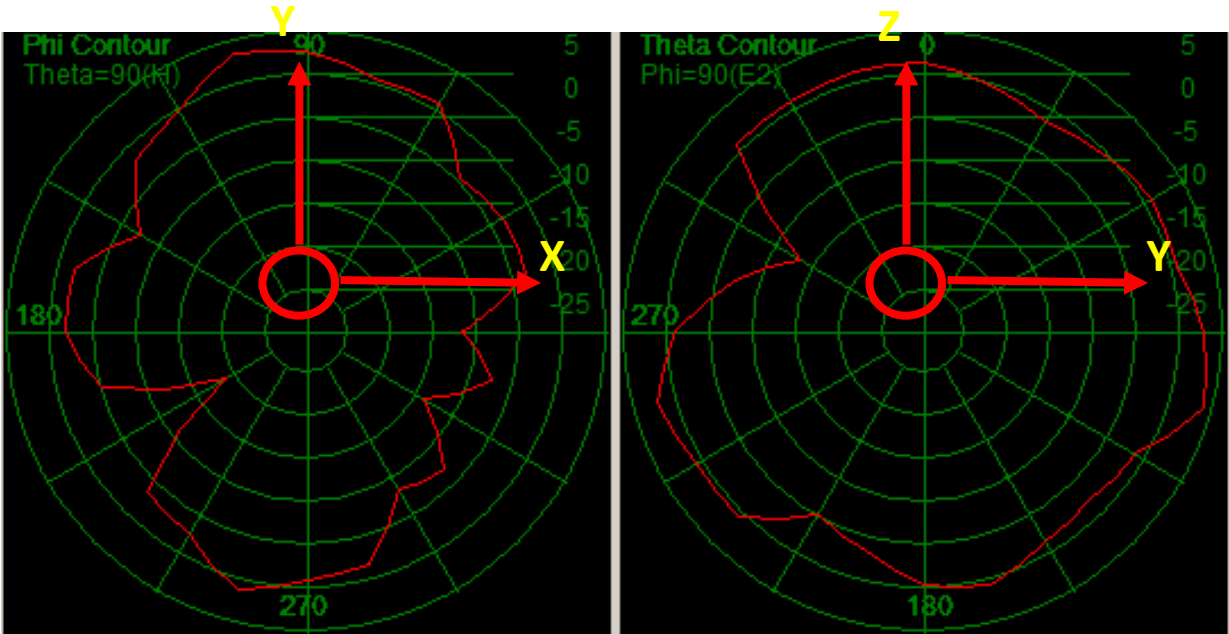
## Radiation patterns:2D:5150MHz



Radiation patterns:2D:5550MHz



Radiation patterns:2D:5850MHz



S21-1,2

