



**Shenzhen Sunyield Technology Co.,Ltd.**

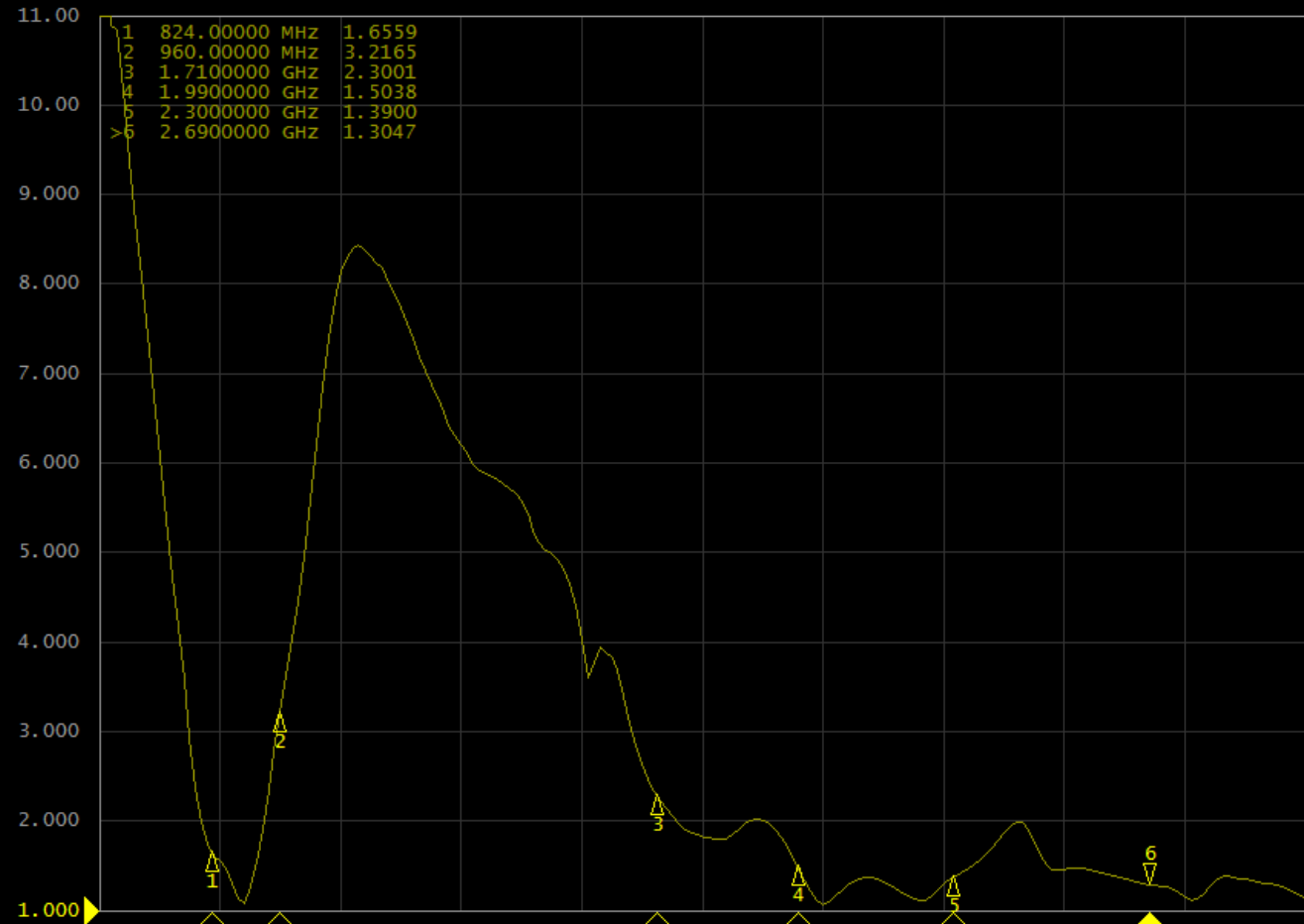
2nd Floor, Hualianfeng Building, No. 91 Huaning Road, Dalang Street, Longhua, Shenzhen, China

## ***Antenna test Report***

## S11-SWR

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

► Tr1 S11 SWR 1.000/ Ref 1.000 [F1 M]



1 Start 600 MHz

IFBW 70 kHz

Stop 3 GHz

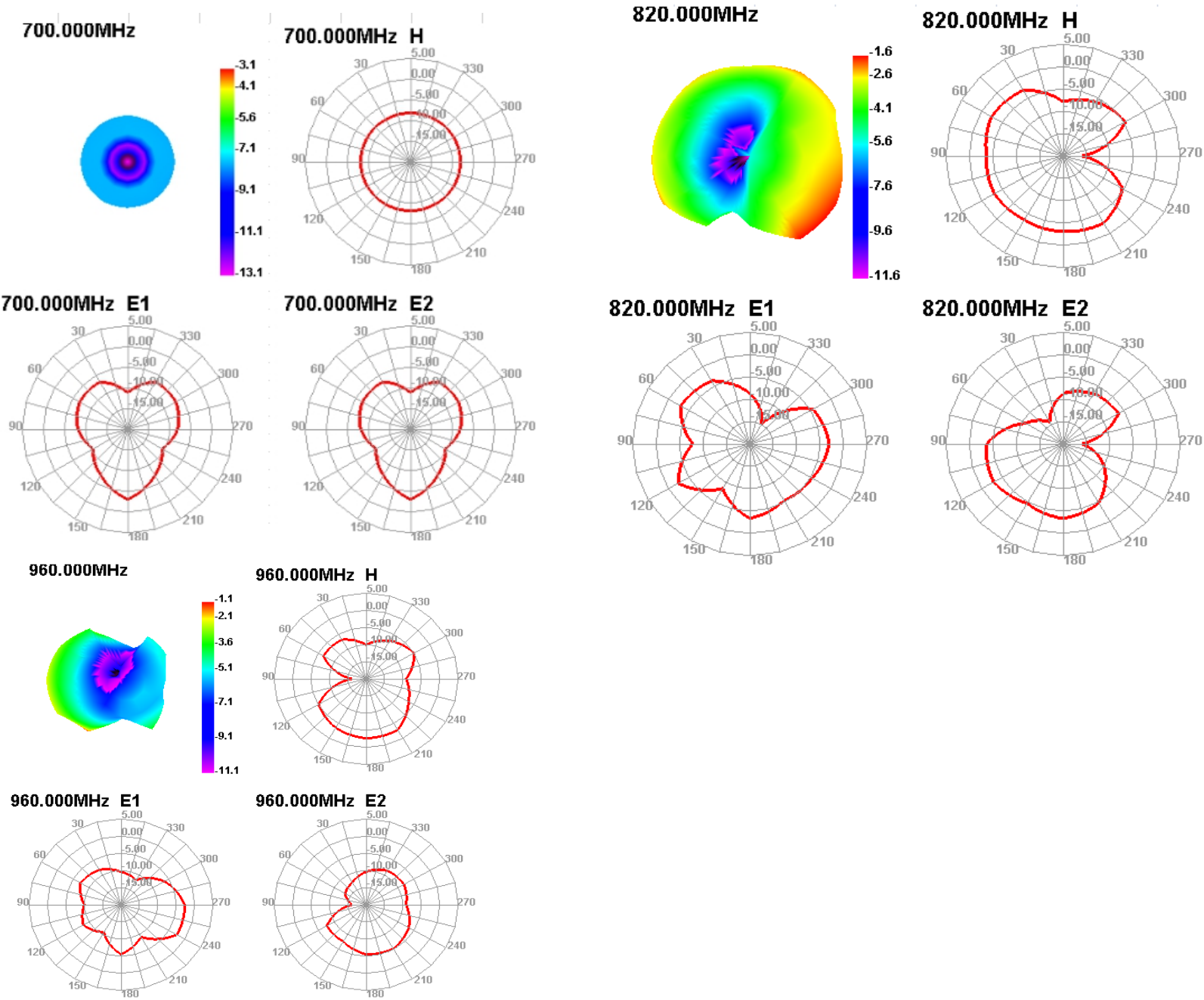
Sim PExt Cor

天线效率/增益

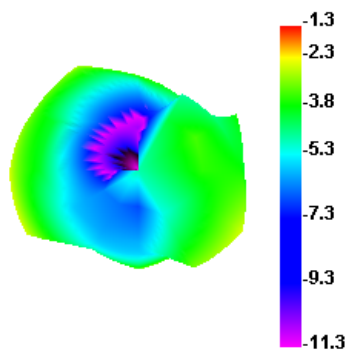
| Freq<br>(MHz) | Effi<br>(%) | Gain<br>(dBi) |
|---------------|-------------|---------------|
| 700           | 17.11       | -3.10         |
| 820           | 40.79       | -1.55         |
| 830           | 40.5        | -1.46         |
| 840           | 39.51       | -1.59         |
| 850           | 39.84       | -1.47         |
| 860           | 38.84       | -1.53         |
| 870           | 43.25       | -0.99         |
| 880           | 41.88       | -0.87         |
| 890           | 43.59       | -0.52         |
| 900           | 39.71       | -0.6          |
| 910           | 37.42       | -0.53         |
| 920           | 40.51       | 0.16          |
| 930           | 39.94       | 0.2           |
| 940           | 33.41       | -0.7          |
| 950           | 33.55       | -0.52         |
| 960           | 29.11       | -1.06         |

| Freq<br>(MHz) | Effi<br>(%) | Gain<br>(dBi) |
|---------------|-------------|---------------|
| 1710          | 31.36       | -1.31         |
| 1750          | 32.54       | -1.35         |
| 1790          | 35.15       | -1.94         |
| 1830          | 45.98       | -0.1          |
| 1870          | 46.74       | 0.28          |
| 1910          | 45.3        | 0.13          |
| 1950          | 42.29       | 1.61          |
| 1990          | 44.45       | 1.52          |
| 2030          | 41.95       | 0.97          |
| 2070          | 49.41       | 1.61          |
| 2110          | 52.47       | 2.37          |
| 2150          | 52.79       | 2.37          |
| 2190          | 50.01       | 1.8           |
| 2230          | 38.54       | 0.88          |
| 2270          | 42.16       | -0.03         |
| 2300          | 48.46       | 1.35          |
| 2340          | 51.99       | 2.29          |
| 2380          | 41.8        | 1.23          |
| 2420          | 36.64       | -0.43         |
| 2460          | 32.93       | -1.13         |
| 2500          | 41.7        | 1.16          |
| 2540          | 37.98       | 0.9           |
| 2580          | 41.68       | 1.34          |
| 2620          | 43.03       | 1.81          |
| 2660          | 41.54       | 1.55          |
| 2690          | 37.18       | 0.54          |

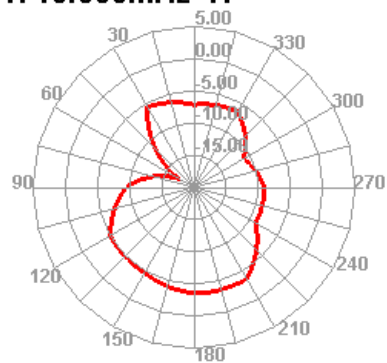
# 天线3D/2D方向图



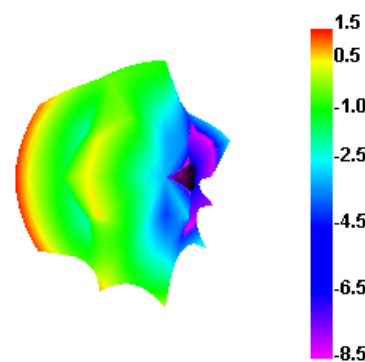
1710.000MHz



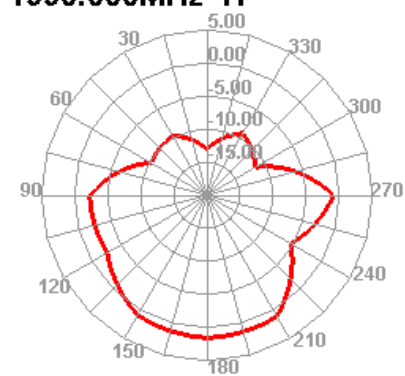
1710.000MHz H



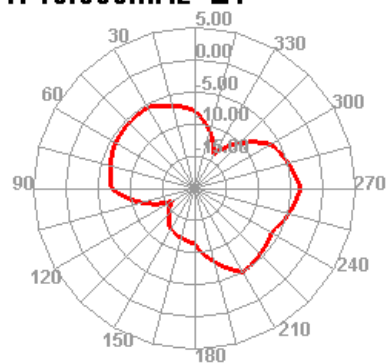
1990.000MHz



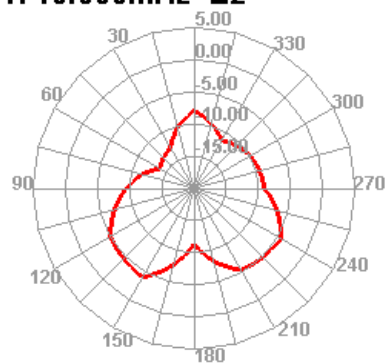
1990.000MHz H



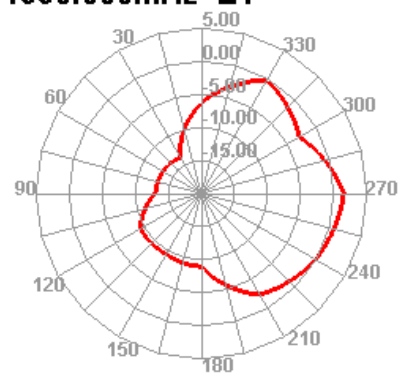
1710.000MHz E1



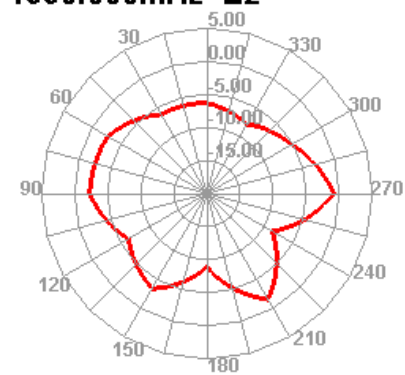
1710.000MHz E2



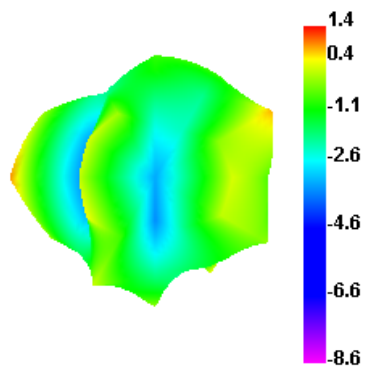
1990.000MHz E1



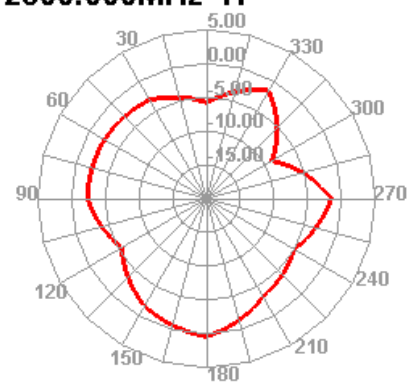
1990.000MHz E2



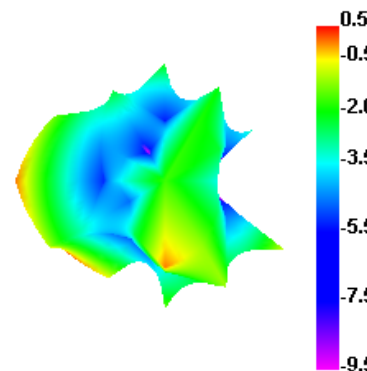
2300.000MHz



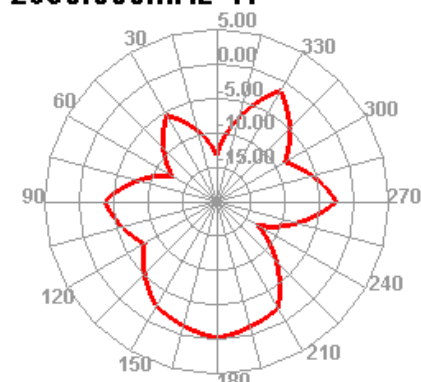
2300.000MHz H



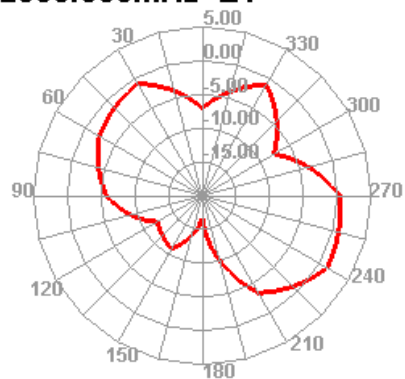
2690.000MHz



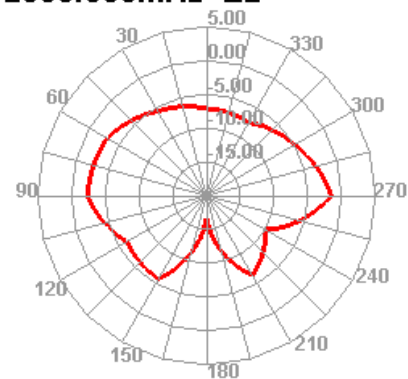
2690.000MHz H



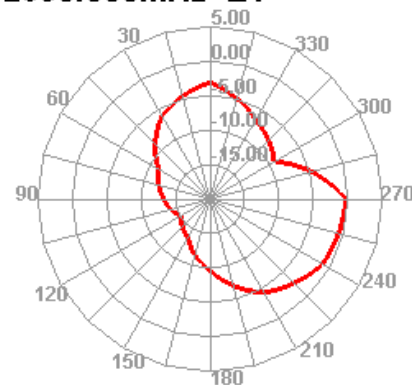
2300.000MHz E1



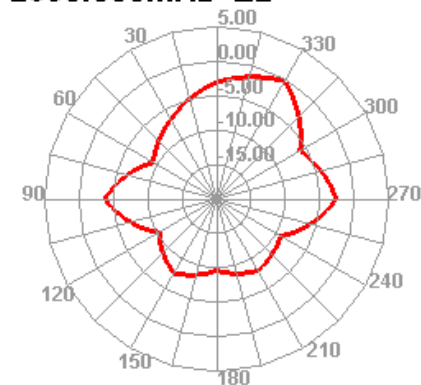
2300.000MHz E2



2690.000MHz E1



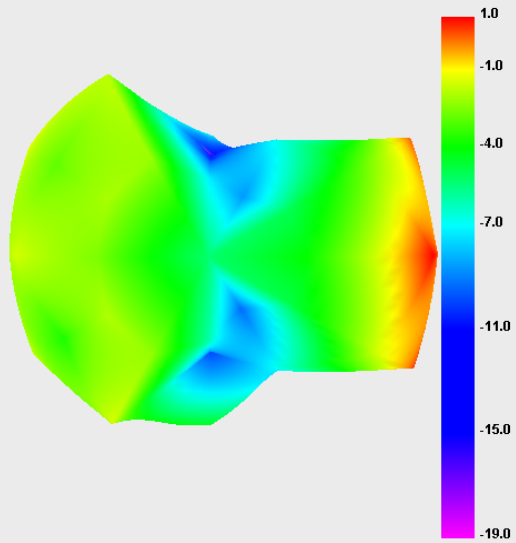
2690.000MHz E2



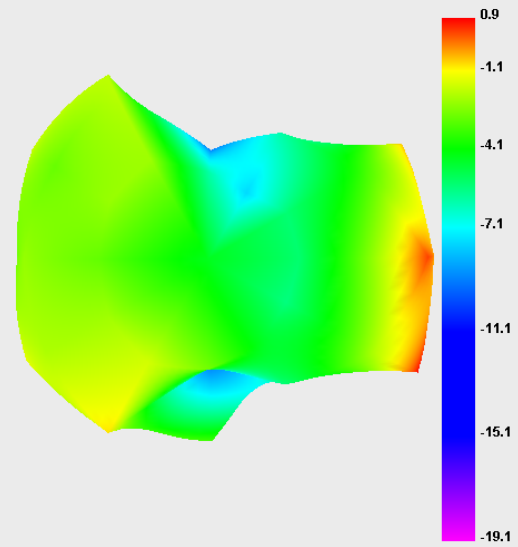
# WiFi2.4G/BT

| Freq<br>(MHz) | Effi<br>(%) | Gain<br>(dBi) |
|---------------|-------------|---------------|
| 2400          | 42.5        | 0.96          |
| 2410          | 38.56       | 0.55          |
| 2420          | 39          | 0.65          |
| 2430          | 38.76       | 0.72          |
| 2440          | 40.44       | 0.82          |
| 2450          | 41.23       | 0.89          |
| 2460          | 42.08       | 0.91          |
| 2470          | 41.26       | 0.71          |
| 2480          | 45.49       | 1.19          |
| 2490          | 39.55       | 0.55          |
| 2500          | 45.06       | 1.24          |
| MAX. Gain     |             | 1.24          |

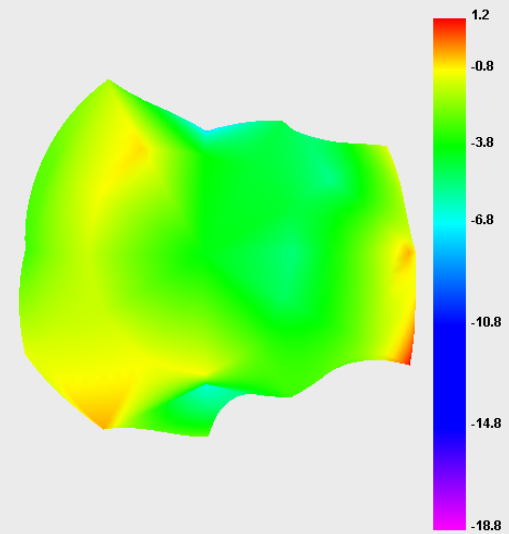
2400.000MHz



2450.000MHz

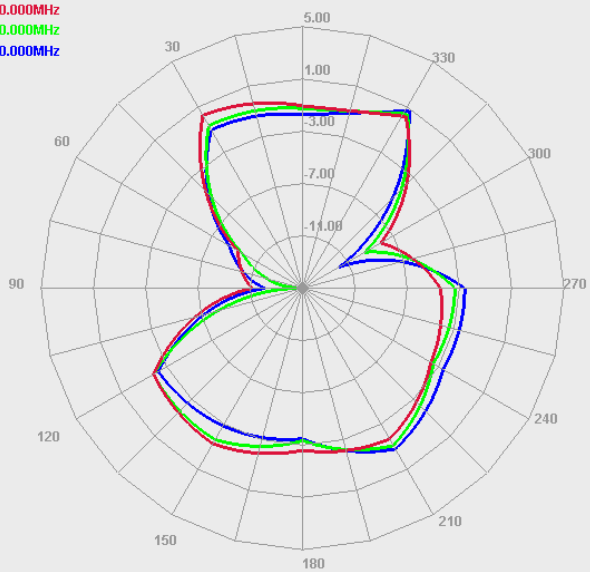


2500.000MHz



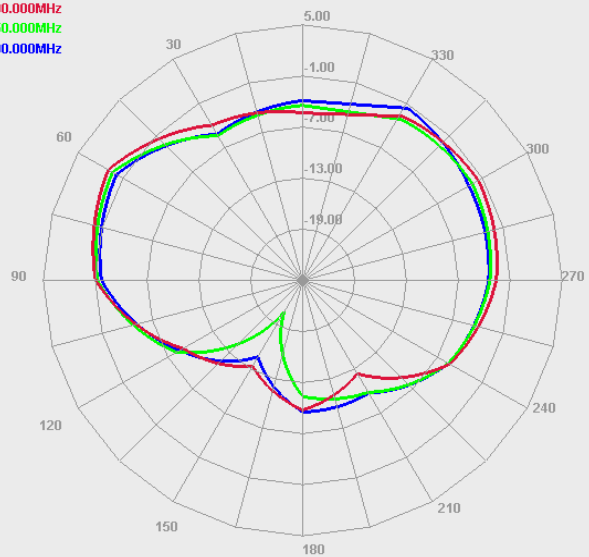
**Horizontal**

2400.000MHz  
2450.000MHz  
2500.000MHz



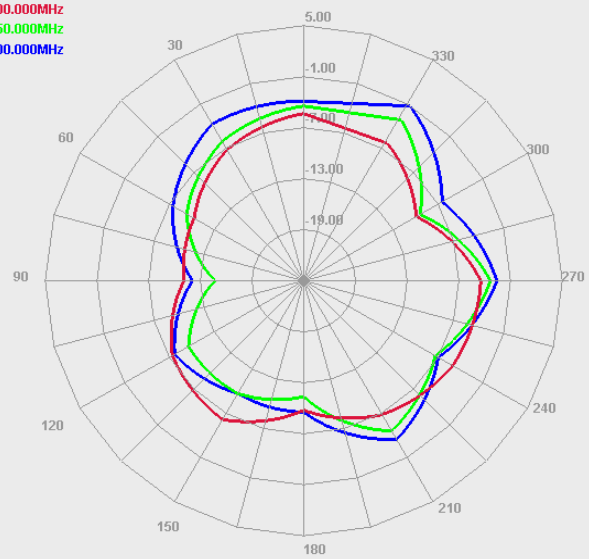
**E1 Face**

2400.000MHz  
2450.000MHz  
2500.000MHz



**E2 Face**

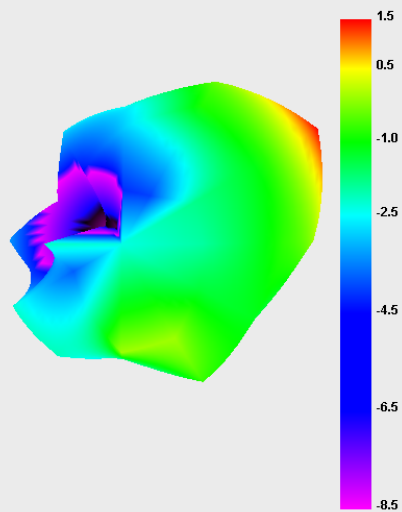
2400.000MHz  
2450.000MHz  
2500.000MHz



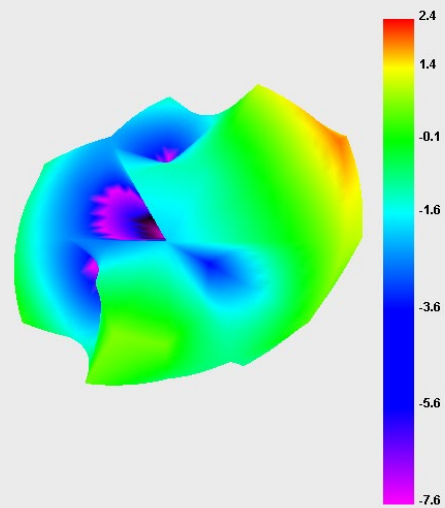
## WIFI5.8G

| Freq<br>(MHz) | Effi<br>(%) | Gain<br>(dBi) |
|---------------|-------------|---------------|
| 5000          | 33.77       | 1.46          |
| 5100          | 38.59       | 1.66          |
| 5200          | 28.23       | 0.43          |
| 5300          | 33.15       | 1.77          |
| 5400          | 29.9        | 1.11          |
| 5500          | 35.54       | 1.42          |
| 5600          | 29.8        | 1.22          |
| 5700          | 20.91       | -0.43         |
| 5800          | 30.52       | 0.47          |
| 5900          | 30.58       | 0.36          |
| MAX. Gain     |             | 1.77          |

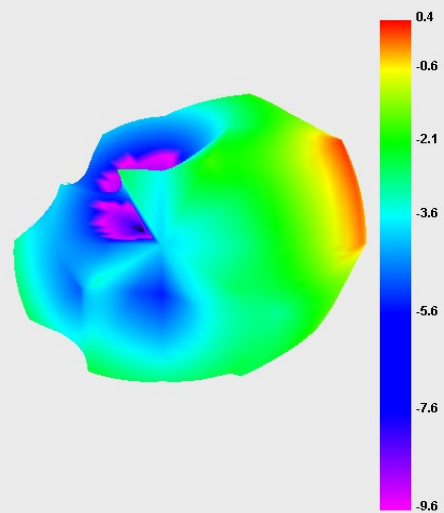
5000.000MHz



5500.000MHz

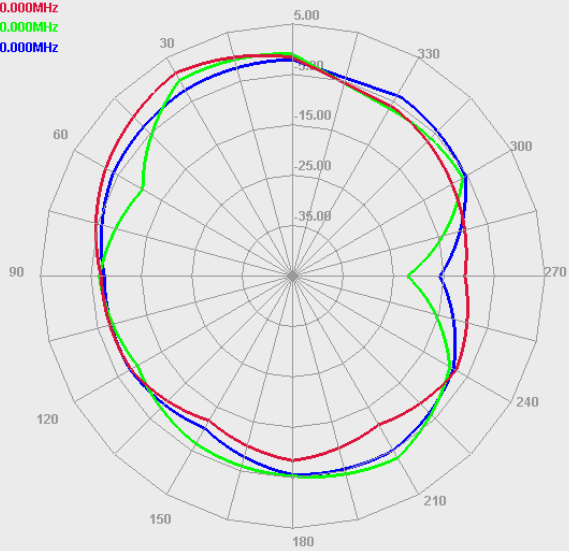


5900.000MHz



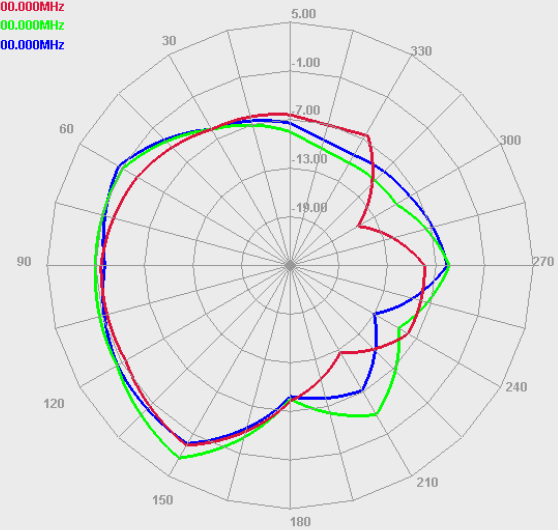
### Horizontal

5000.000MHz  
5500.000MHz  
5900.000MHz



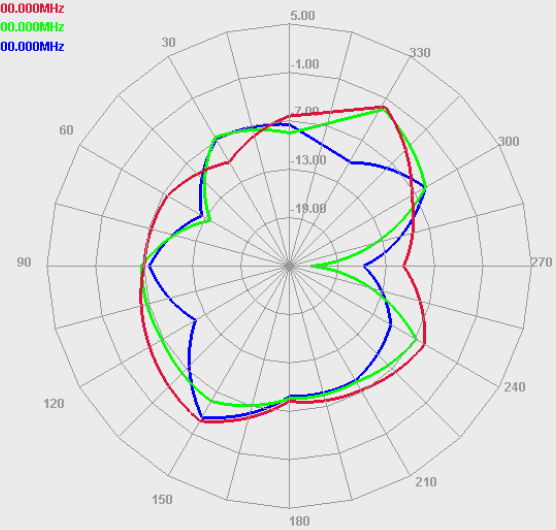
### E1 Face

5000.000MHz  
5500.000MHz  
5900.000MHz



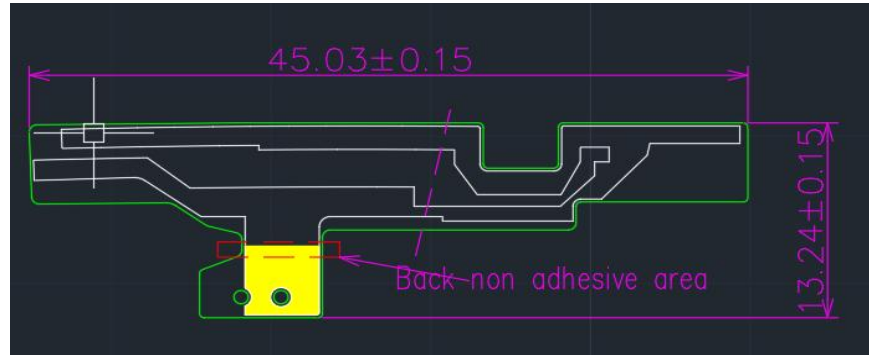
### E2 Face

5000.000MHz  
5500.000MHz  
5900.000MHz

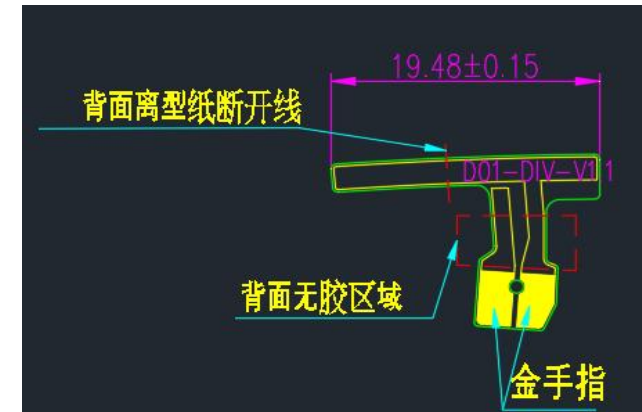


## Antenna size

WWAN Main Antenna



WWAN DVI Antenna



WLAN Antenna

