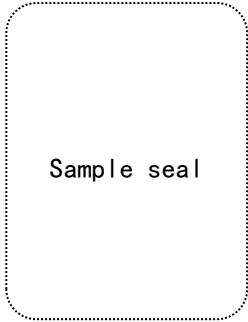




APPROVAL SHEET



Customer Name XIAOMI

Product Model RC04

Customer P/N L530100043321

Specifications 2.4GHz/5GHz, 3dBi, 1.13 RFcable, 2G=120mm, 5G=45mm

Southstar P/N 3.N102.1050

Production date 2024-05-25

Revision 1.0

Southstar		
FICTION/TEST	DQE	R&D
Jinjiang Zhang		
Customer		
PUR	QC	R&D

Manufacturers: SHENZHEN SOUTH STAR TECHNOLOGY CO., LTD

Office address: 803, Tianshu block, Xinggang tongchuanghui, No. 6099, Bao'an Avenue, Xinh community, Fuhai street, Bao'an District, Shenzhen

Production address:No. 3, Chigang Nanfang 1st Road, Humen Town, Dongguan City, Guangdong Province

Tel: 0755-27474071 0769-88086190

Http://www.southstar-tech.com



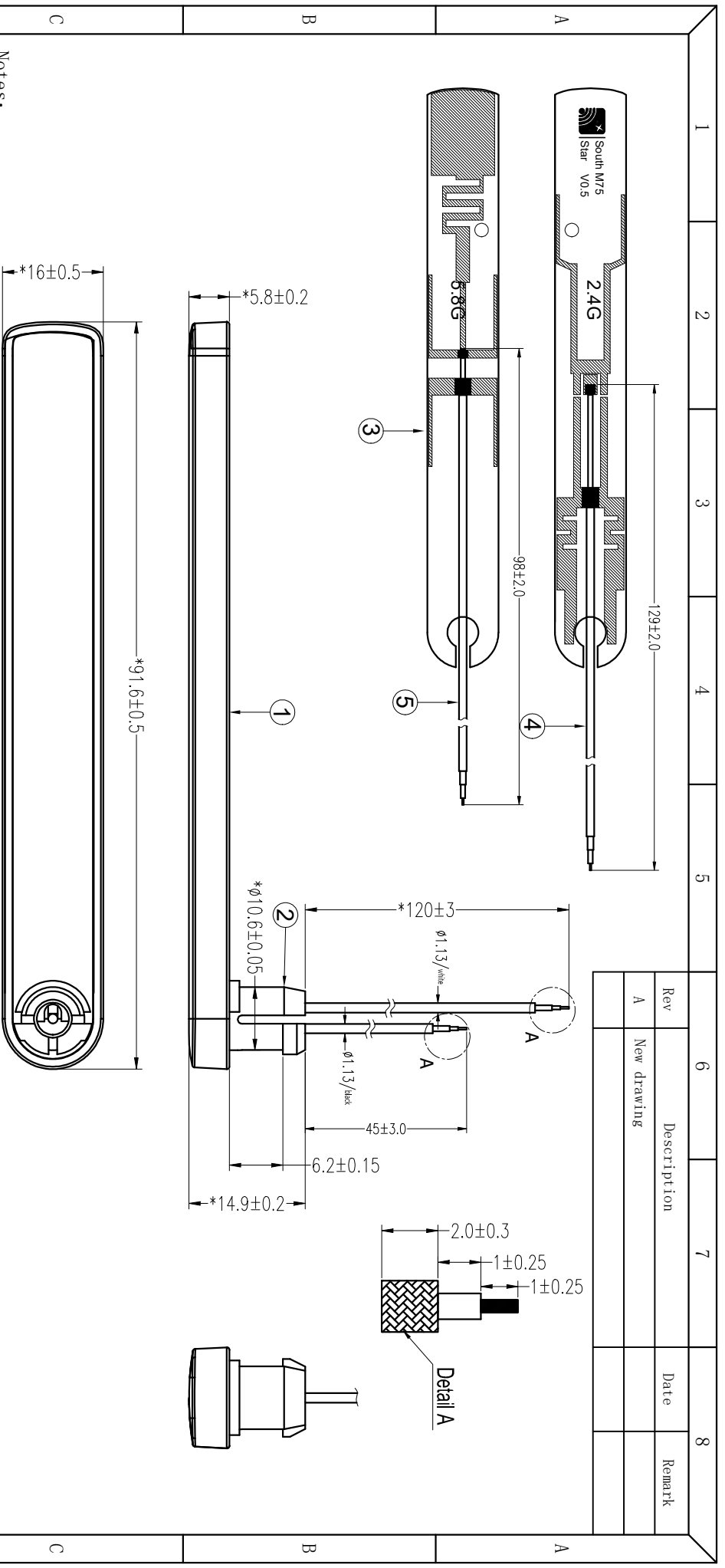
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Antenna Specification

A. Electrical Characteristics	
Frequency	2400MHz~2500 MHz/5150MHz~5850 MHz
VSWR	≤ 2
Efficiency	>60%
Impedance	50 Ohm
Polarization	Linear
Gain	3dBi
Note	
B. Material & Mechanical Characteristics	
Material of Radiator	
Cable Type	2G: 1.13 White 5G:1.13 Black
Connector Type	
C. Environmental	
Operation Temperature	- 30 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 70 °C

Rev	Description	Date	Remark
A	New drawing		



- Notes:
1. Mark "*" means key dimensions;
 2. Unmarked ones refer to drawings;
 3. There should not be cold/false soldering, short/open circuit etc.;
 4. ALL Parts must comply with RoHS;
 5. 100% Performance inspection is a must.

No.	Part No.	Name	Specification	Amount	Remark
5	X02-8380-R0A	5.86 cable	φ1.13/black	1	
4	X02-8379-R0A	2.4G-2 cable	φ1.13/white	1	
3	D04-2094-R0A	PCB	FR4 gray/T=0.6mm	1	
2	S01-0659-R0B	bottom	PC+ABS black	1	
1	S01-0658-R0A	top	ABS black	1	

South Star		Dongguan South Star Technology Co., Ltd		Shenzhen South Star Technology Co., Ltd	
Project	RC04	Date	2024-05-27		
Part Name	WiFi-2	Designed by	Shuanglu Lei		
Part No.	NI2-7509-R0A	Checked by	Jinjian Zhang		
Material	/	Approved by			
Location	40~	DWG No.	Unit	Scale	Rev
	±0.05		mm	1:1	A
	±0.10				
	±0.12				
	±0.15				
	±0.20				
	Angle				
	±0.5°				

Test Equipment & Conditions

1. Network Analyzers:

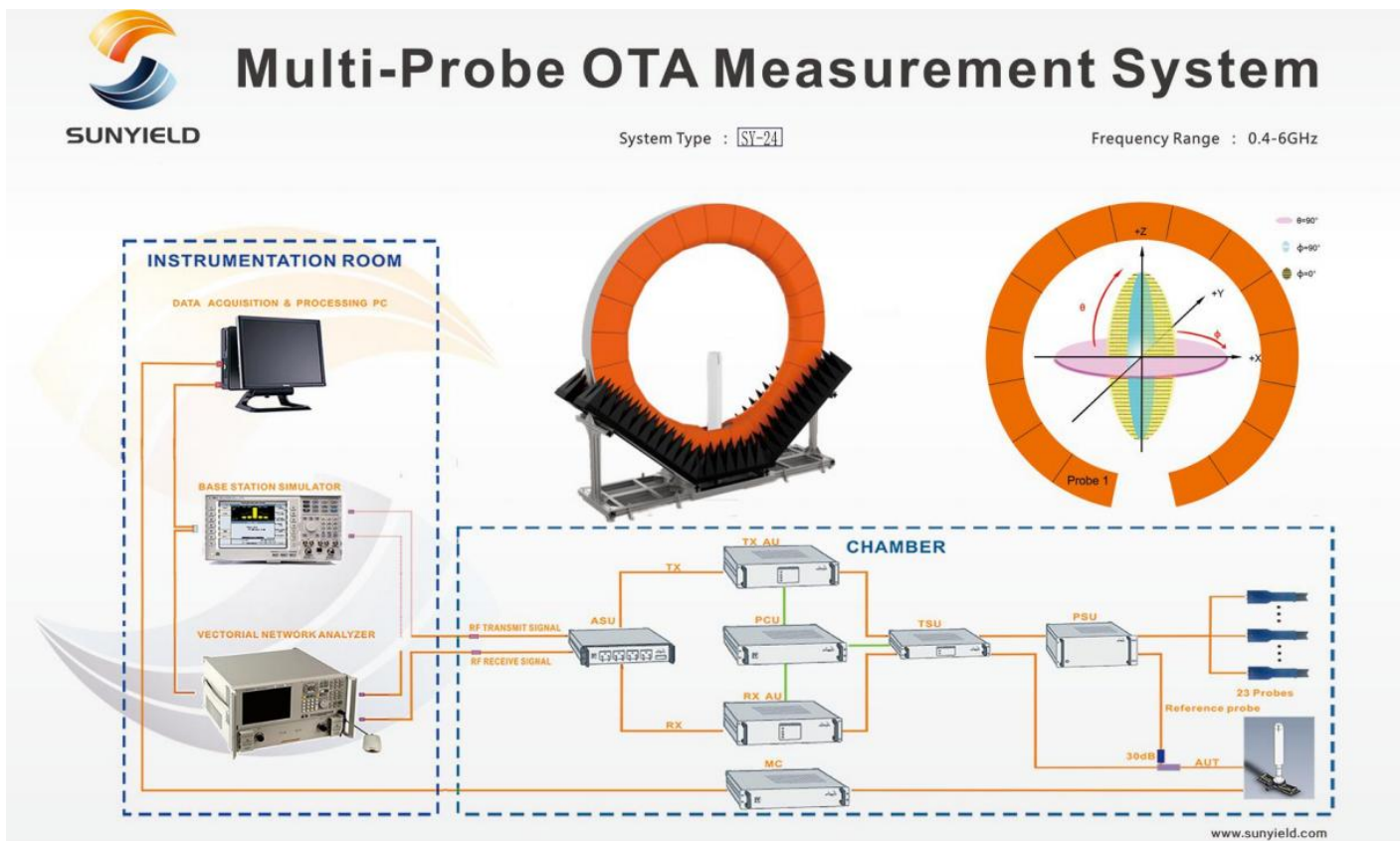
Keysight E5071C

2. Comprehensive tester:

CMW500 、 MT8000A、 MT8862A

3. 3D Chamber Test System:

Calibrated until :2024. 03. 13

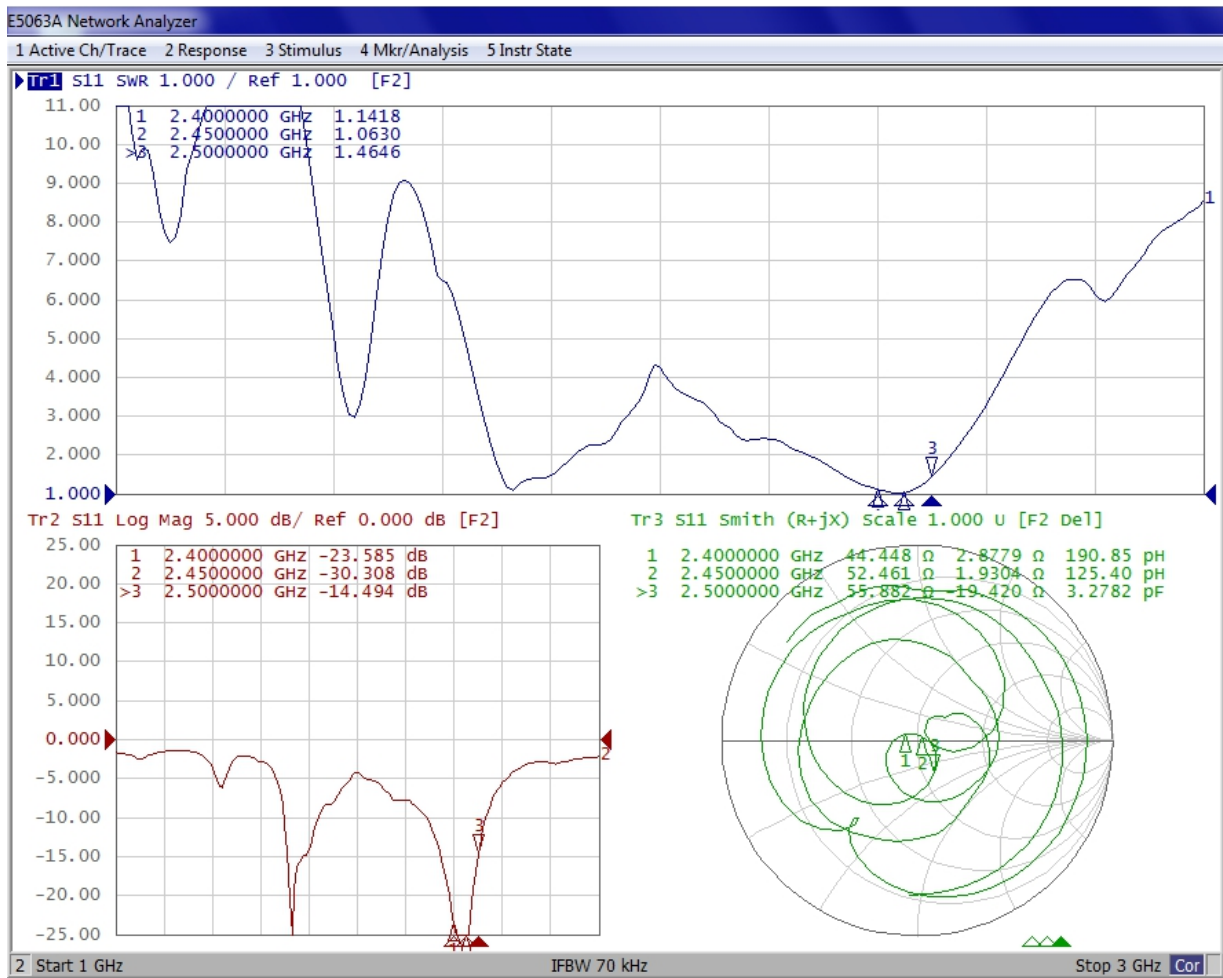




South
star

SHENZHEN SOUTH STAR TECHNOLOGY CO., LTD.

Antenna Impedance: S11





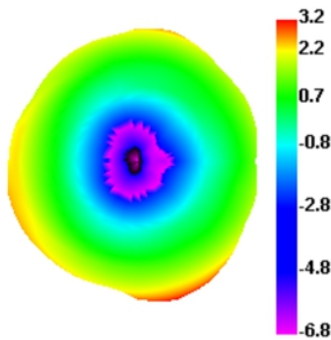
South
star

SHENZHEN SOUTH STAR TECHNOLOGY CO., LTD.

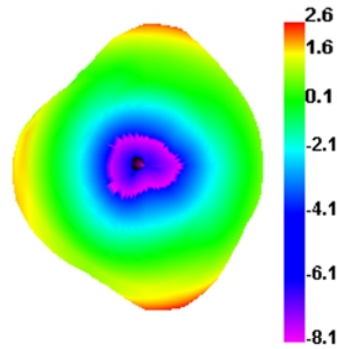
Efficiency& GAIN:

Freq (MHz)	Effi (%)	Gain (dBi)
2400	69.06	3.21
2410	65.76	3.03
2420	66.55	3.12
2430	69.83	2.87
2440	68.91	2.73
2450	64.73	2.61
2460	62.59	2.73
2470	62.44	2.8
2480	64.31	3.05
2490	64.1	3.09
2500	63.59	3.33

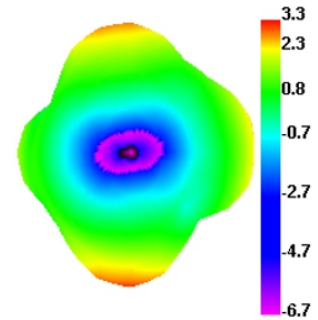
2400.000MHz



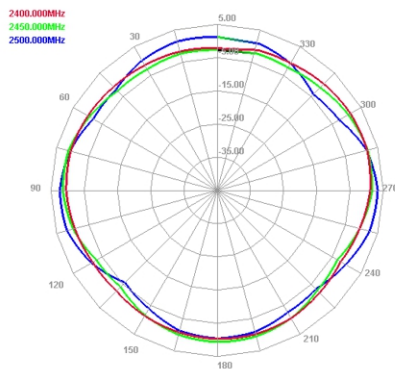
2450.000MHz



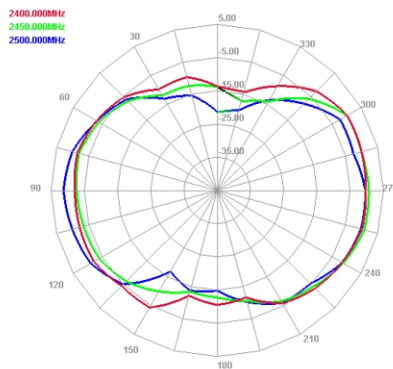
2500.000MHz



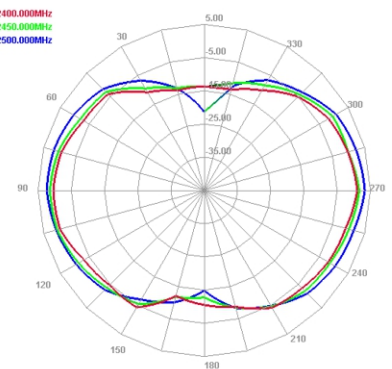
Horizontal

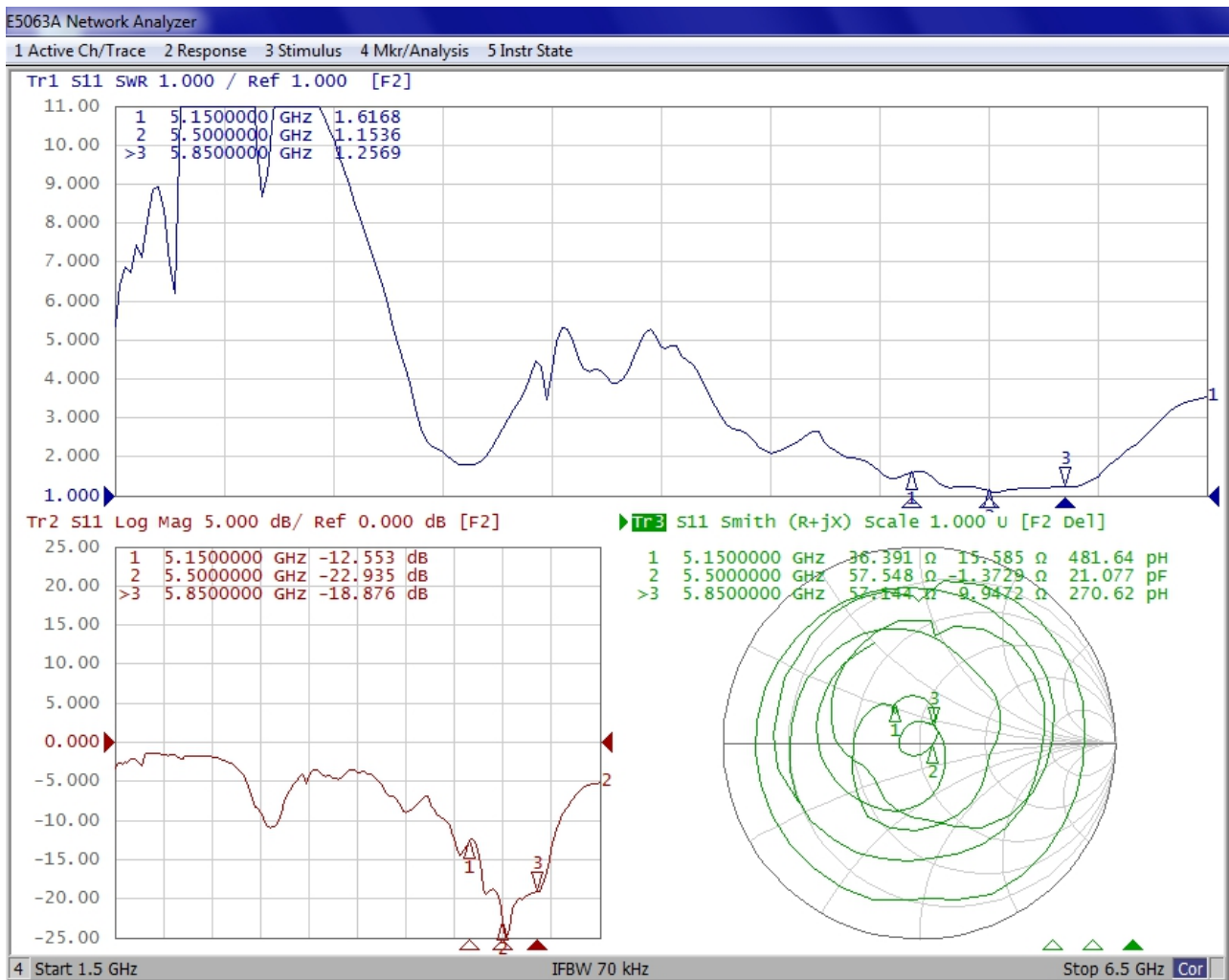


E1 Face



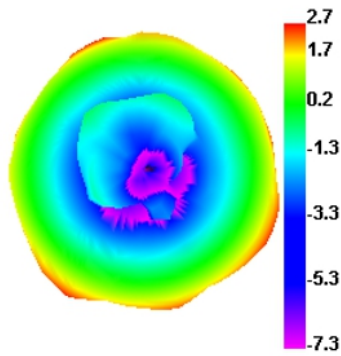
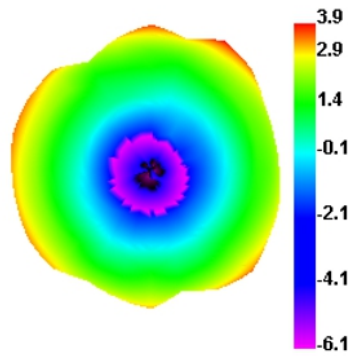
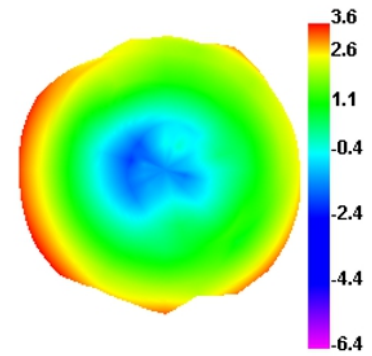
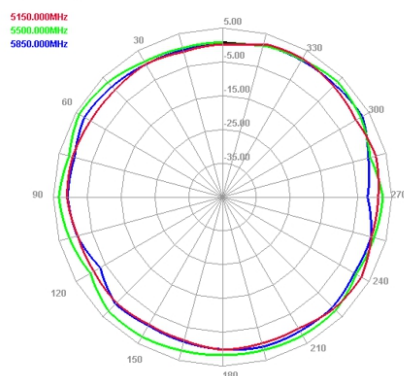
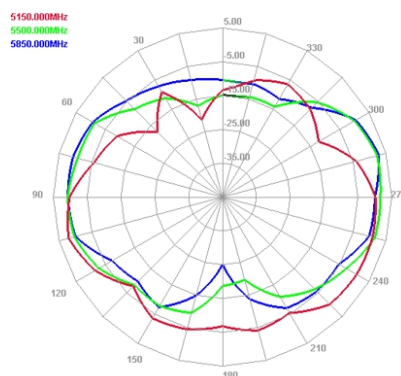
E2 Face



Antenna Impedance: S11


Efficiency& GAIN:

Freq (MHz)	Effi (%)	Gain (dBi)
5150	62.14	2.73
5200	65.08	3.23
5250	65.98	4.05
5300	63.73	4.4
5350	63.95	4.06
5400	66.12	3.67
5450	64.22	3.5
5500	73.32	3.93
5550	75.75	3.7
5600	67.37	2.82
5650	66.1	2.69
5700	72.93	3.25
5750	71.93	3.37
5800	70.07	3.45
5850	66.86	3.62

5150.000MHz

5500.000MHz

5850.000MHz

Horizontal

E1 Face

E2 Face
