



规格承认书

SPECIFICATION FOR APPROVAL

日期
DATE: 2026.3.9

版本
REV.: V1.0

客 户
CUSTOMER: Asiatelco Technologies Co.

客 户 料 号
CUSTOMER P/N:

品 名
PART NAME: GA61-LTE Antenna

供 方 料 号
SUPPLIER P/N:

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
宋旭辉	周俊	傅以成

Index

1. RF Fixture Experiment.....	1
1.1 Test Setup.....	3
1.2 UE configuration.....	4
2. Test Result.....	5
2.1 Passive Test Result(S parameters).....	5
2. 2 Radiation Patterns:2D.....	6
3. Mechanical instruction.....	10

1. RF Fixture Experiment

1.1 Test Setup

1.1.1 VNA Test Setup

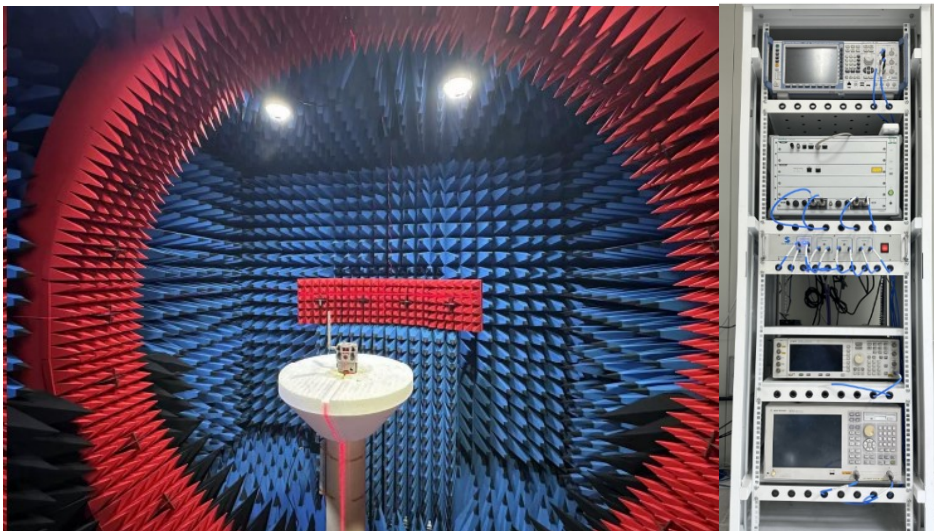
VSWR and Return Loss measurements (S_{11}) were performed using an Keysight E5071C Network Analyzer. The isolation between antennas is also tested. The testing was performed with apparatus in free space.

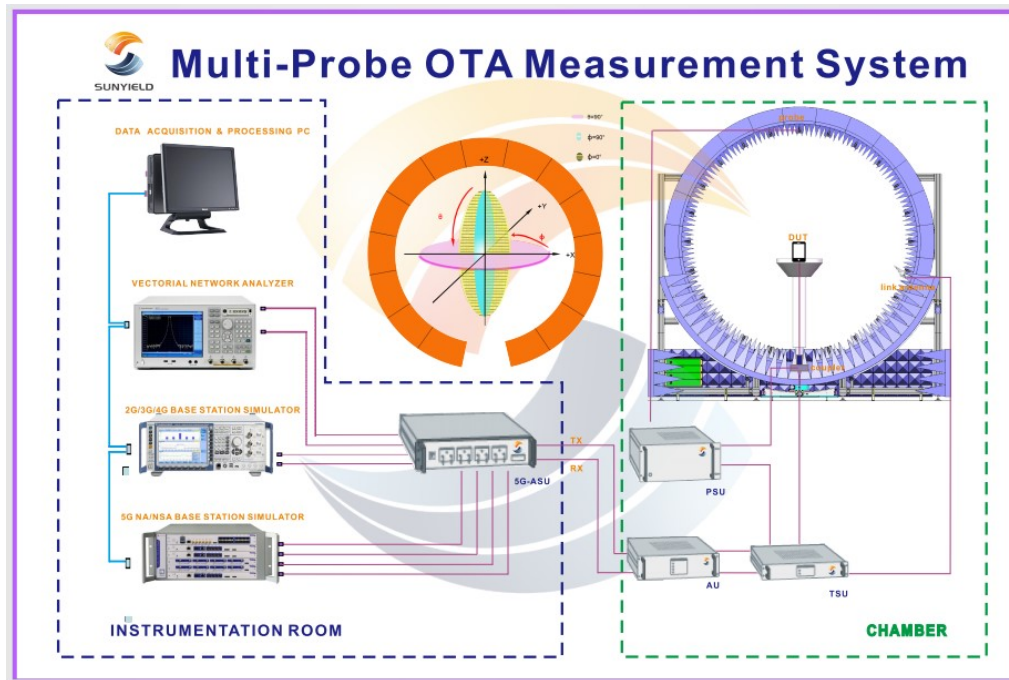


1.1.2 Anechoic Chamber Test Setup

When we test Gain and Efficiency of the antenna, we will use the Multi-Probe OTA Measurement System 3D chamber.

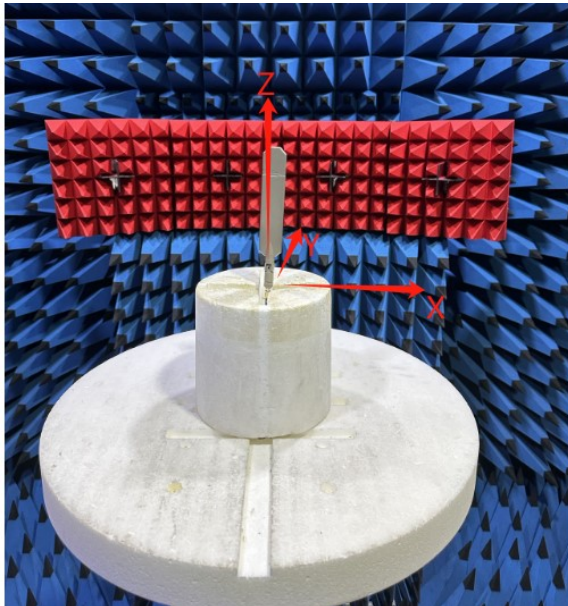
The chamber provides test frequency from 400MHz to 6GHz. The real test environment is showing as following picture





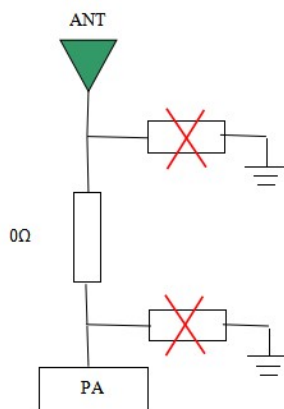
1.2 UE configuration

1.2.1 Antenna location pictures



1.2.2 RF matching for different antennas

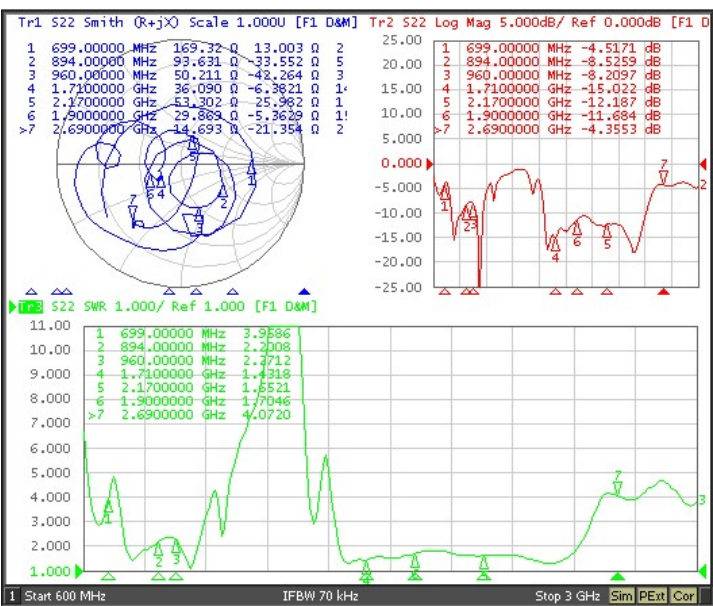
LTE antenna matching



2. Test Result

2.1 Passive Test Result(S parameters)

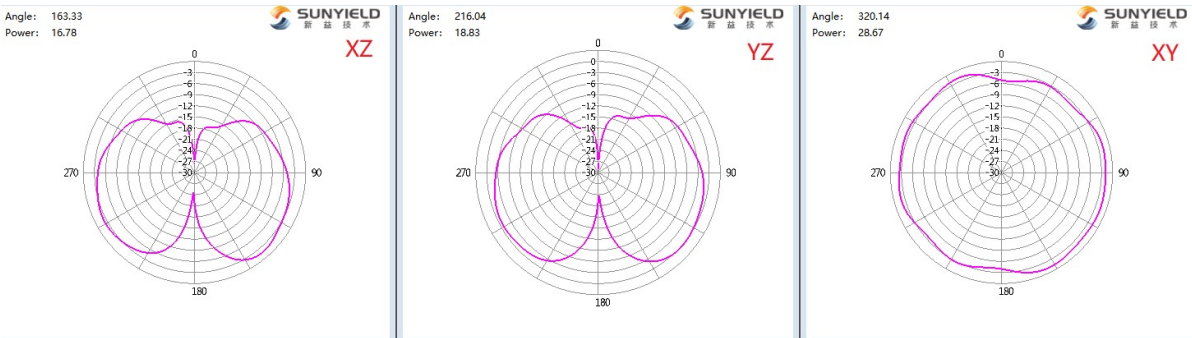
LTE antenna S11



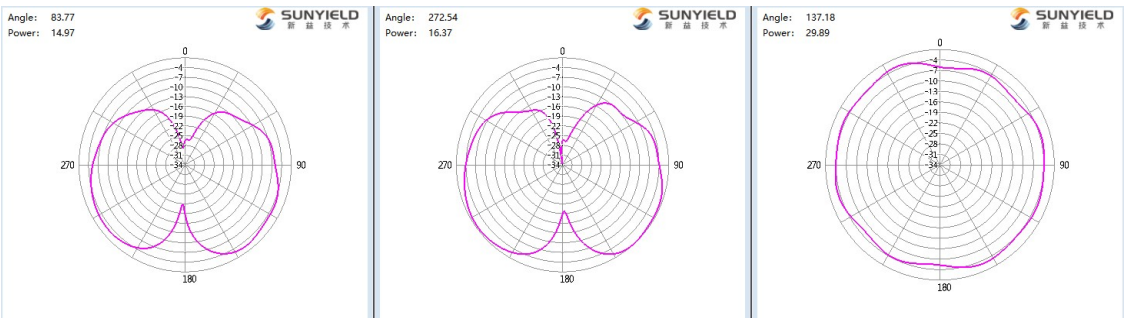
Frequency(MHz)	700	750	800	850	900	950	1700	
Gain(dBi)	0.2	-0.75	0.2	0.76	1.73	1.42	2.93	
Efficiency(%)	54.58	45.98	46.08	37.25	34.82	37.59	64.21	
Frequency(MHz)	1800	1900	2000	2100	2200	2500	2600	2700
Gain(dBi)	3.78	4.28	1.92	1.68	2.1	2.48	2.49	1.93
Efficiency(%)	64.32	65.88	51.59	57.11	62.74	68.18	69.46	71.41

2.2Radiation Patterns:2D

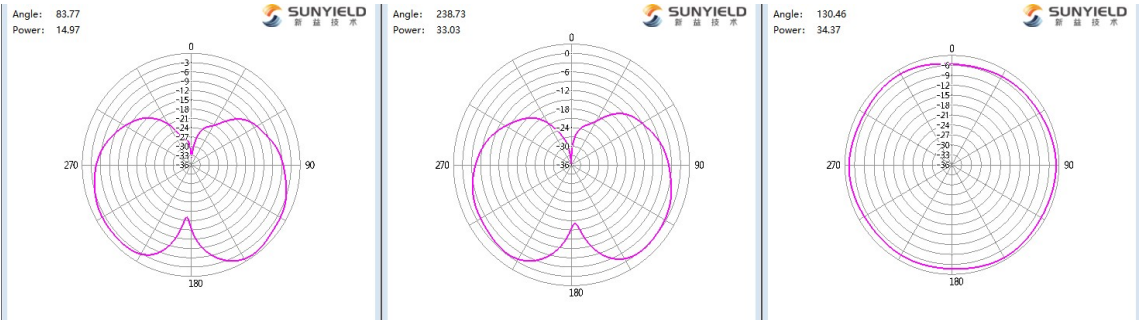
700M



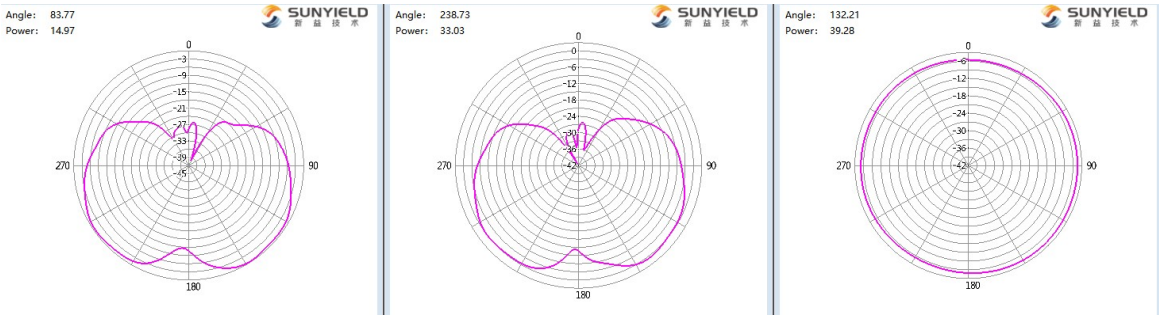
750M



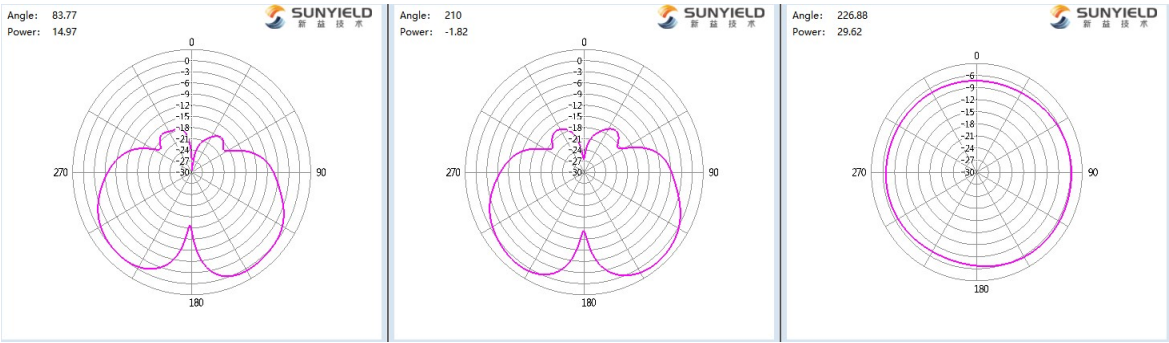
800M



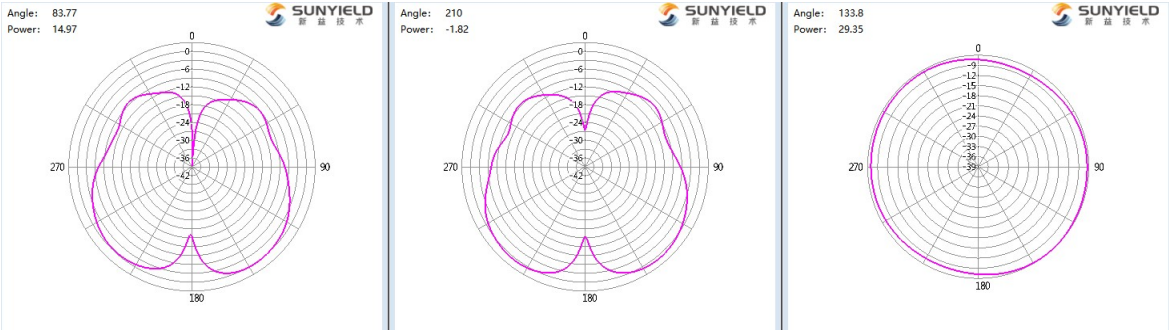
850M



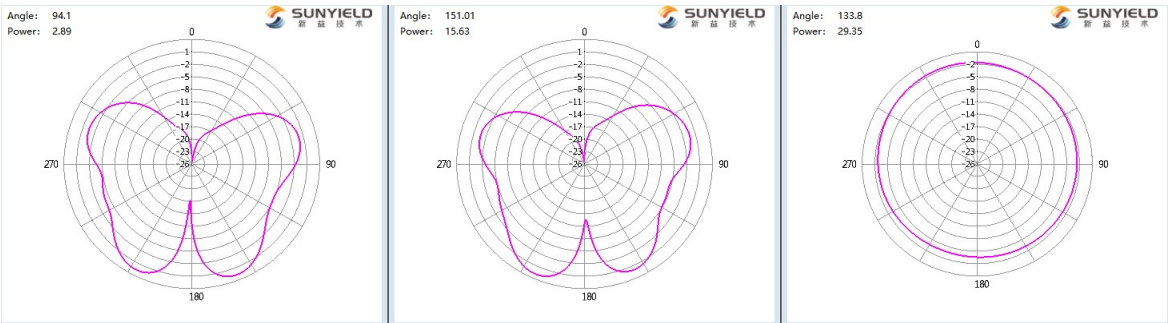
900M



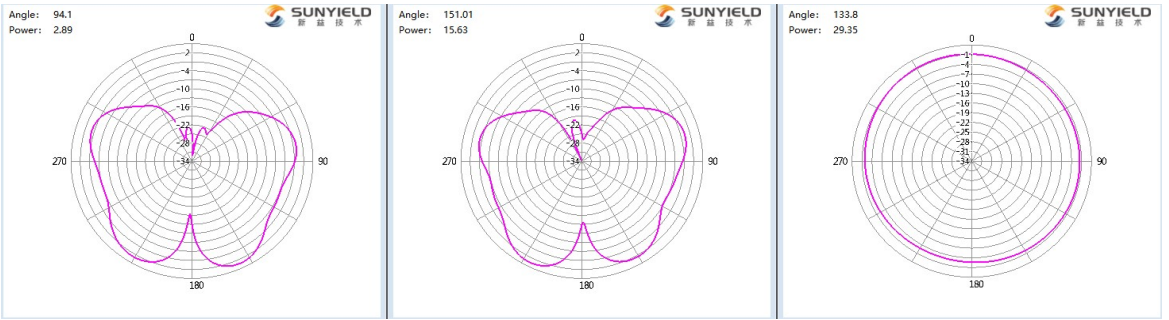
950M



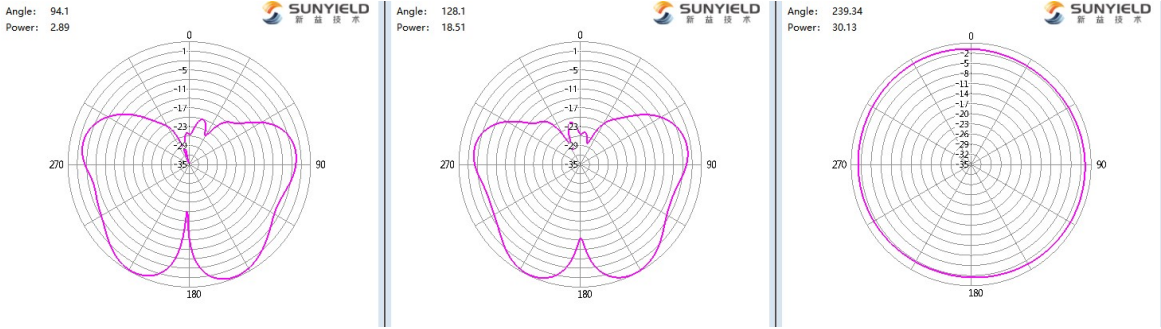
1700M



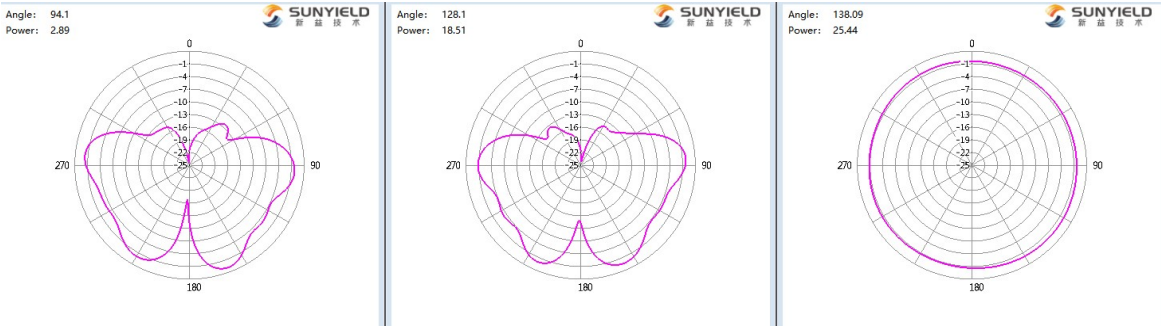
1800M



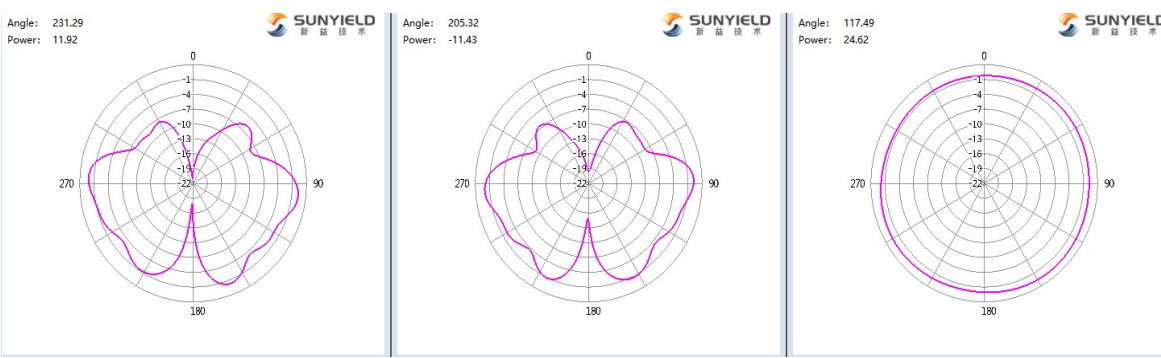
1900M



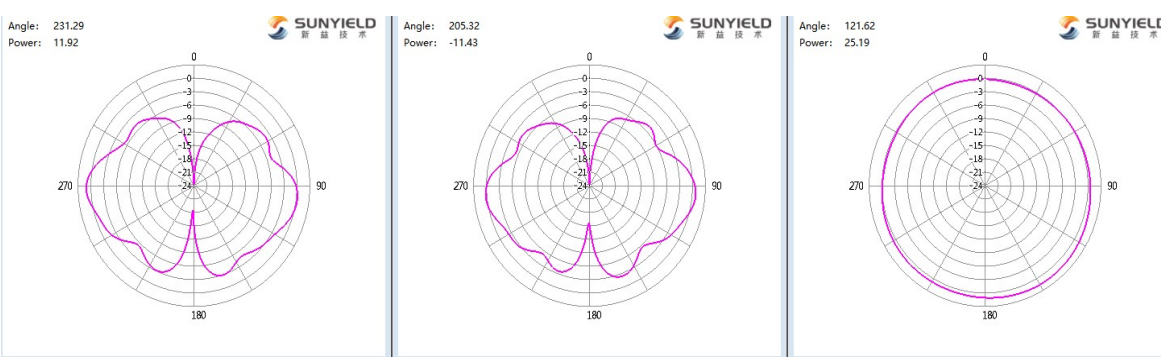
2000M



2100M

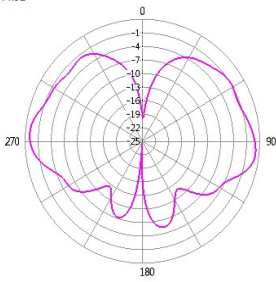


2200M

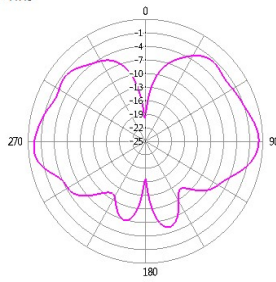


2500M

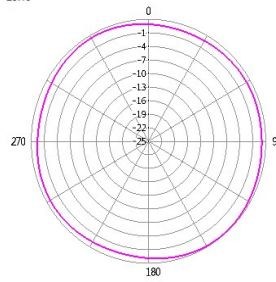
Angle: 231.29
Power: 11.92



Angle: 205.32
Power: -11.43

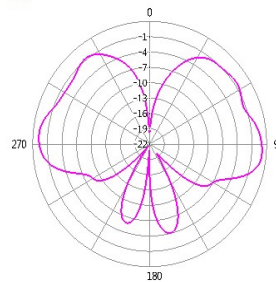


Angle: 121.62
Power: 25.19

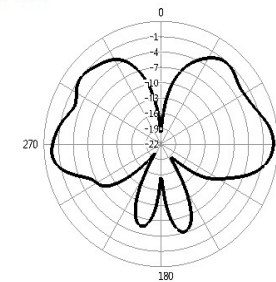


2600M

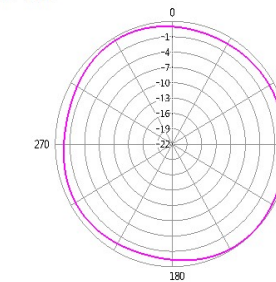
Angle: 231.29
Power: 11.92



Angle: 205.32
Power: -11.43

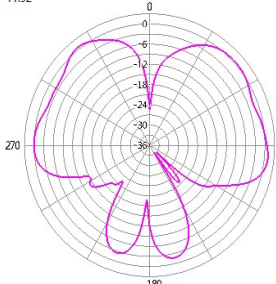


Angle: 137.96
Power: 25.04

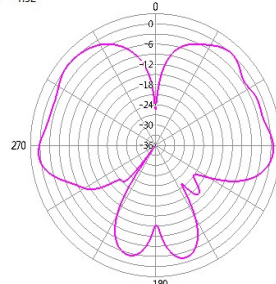


2700M

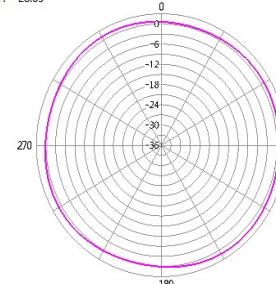
Angle: 231.29
Power: 11.92



Angle: 230.88
Power: -1.52



Angle: 132.88
Power: 28.65



[illegible]