

FN-LINK TECHNOLOGY Ltd.

CUSTOMER APPROVED BY

Approved by

Checked by

Prepared by

SUPPLIER APPROVED BY

Approved by

Checked by

Prepared by

Supplier Name: FN-LINK TECHNOLOGY Ltd.

Supplier Address: Office Address: 14th Floor, Block B, Phoenix Zhigu, No.50 Tiezai Road, Gongle Community, Xixiang Street, Baoan District, Shenzhen, China 518000

Supplier Factory: Factory address: No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan, China 41032

Phone number: 86-755-2955-8186
website: www.fn-link.com

antenna testing

Customer	Location
Project Name	620W
Customer NO.	
specification	Orientation, steel sheet antenna, dimensions 17.05*1.62*5.4, material 301 stainless steel, T=0.3mm, surface nickel-plated, ROHS, 620D
Supplier NO.	0233040004
Specification NO.	
Write by	Wei Yuanji
REV.	Ver.1
Date	2025-7-17
Note	

Version change log				
Change date	Change content	version	Change person	Approved by

1. Recognition Letter Project Table (Index)

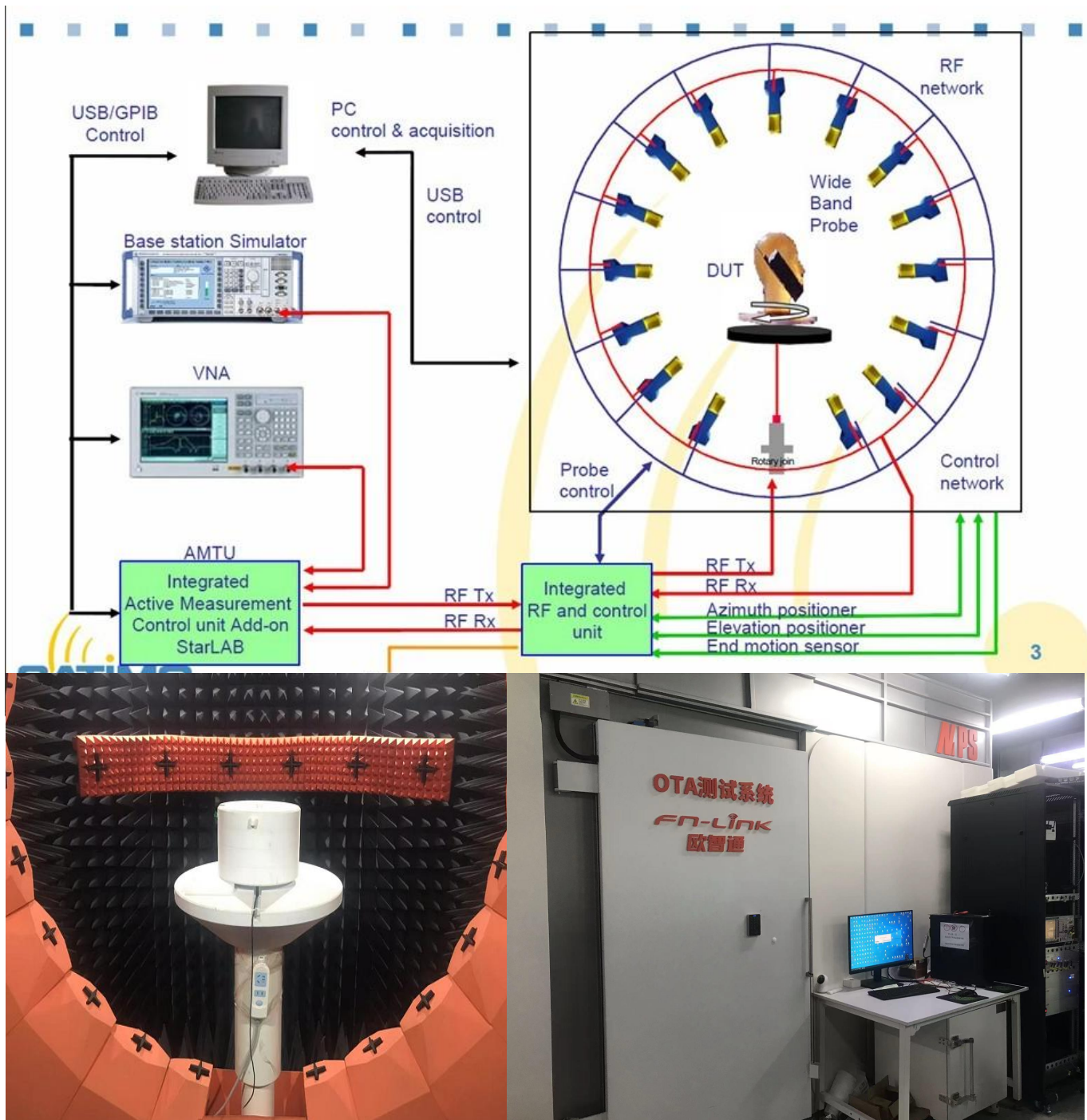
Number	content	Page number
–	Acknowledgment Letter Cover	one
–	Antenna test report	two
–	Version change record	three
one	Confirmation Letter Project Table	four
two	Test equipment and conditions	five
three	Prototype structure specification	six
four	Finished antenna diagram	seven
five	S11	eight
six	Gain/Efficiency/3D Graph	nine -ten
seven	packing	eleven

(Test Equipment & Conditions)

1.1 . Network Analyzers : KEYSIGHT P5002A
1.2 . Communications Test Set: R&S CMW 500

1.3 . 3D Chamber Test System: (24 probe testing system)

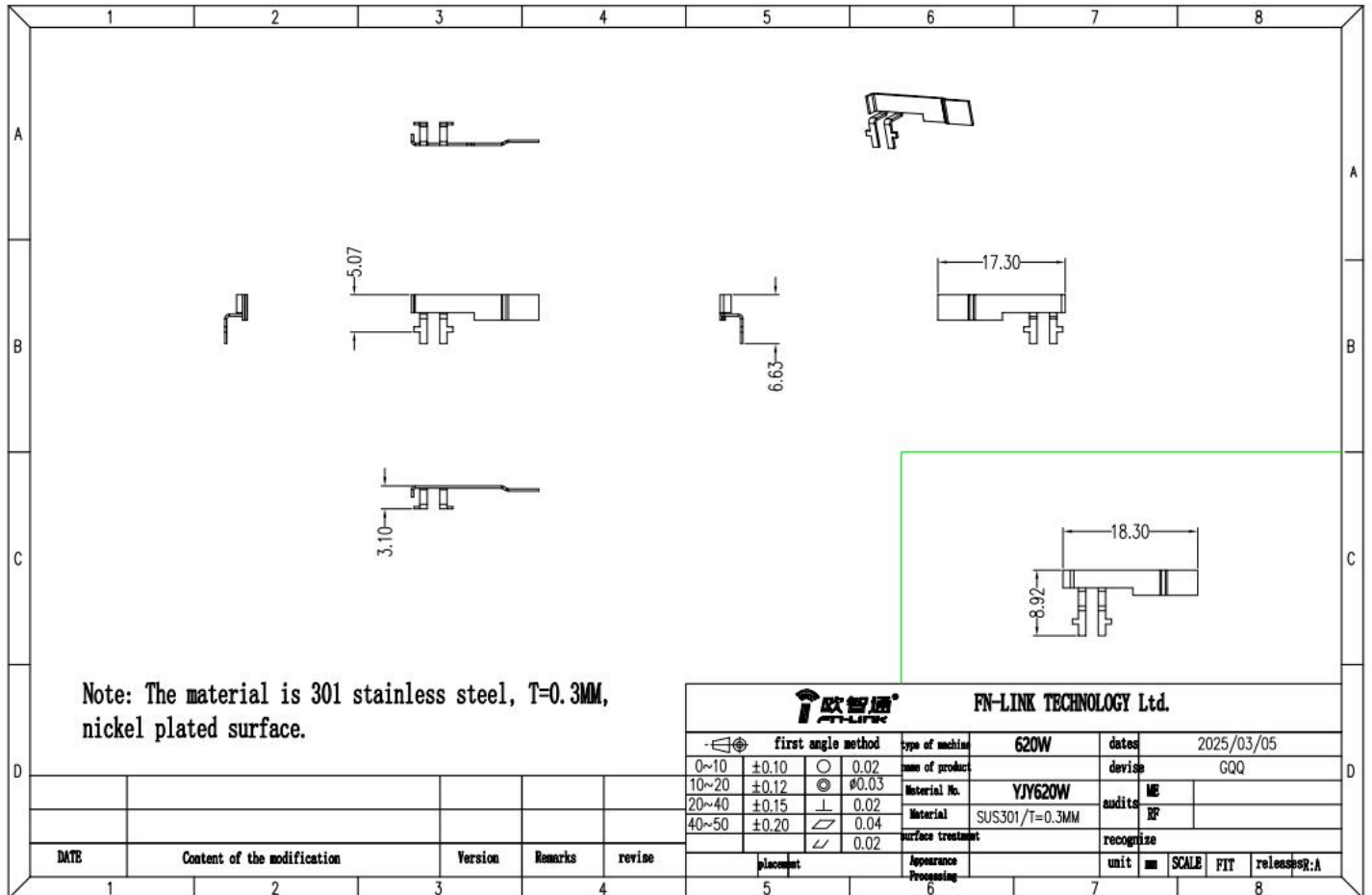
1. Testing principle diagram of microwave anechoic chamber



2. Explanation.

This report summarizes the electrical performance results of the antenna for the project, including the S11 parameters, Gain, and Efficiency of the antenna

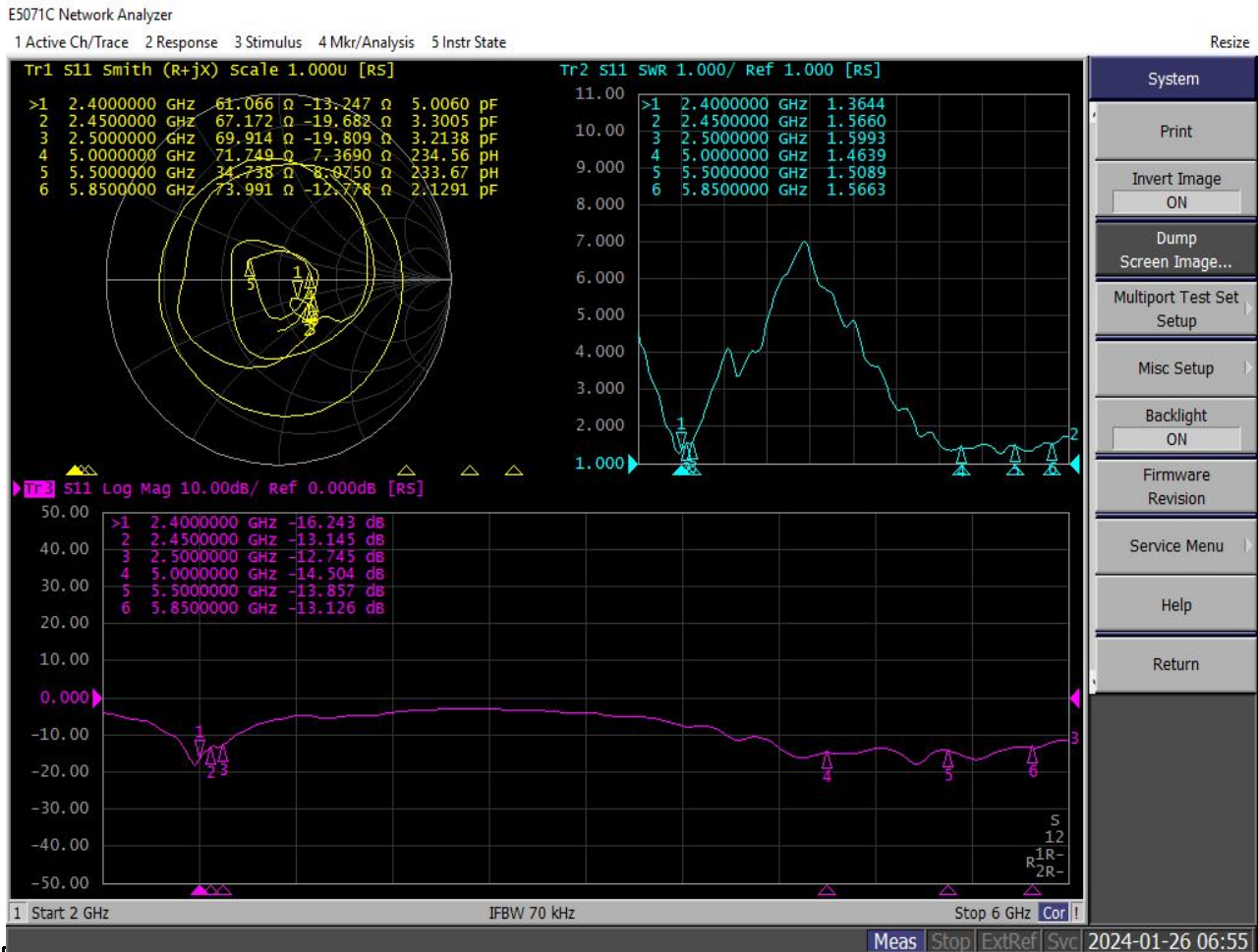
Finished antenna diagram



Directory

1. Overall machine description
2. Debug data reports
3. Test data

antenna S11



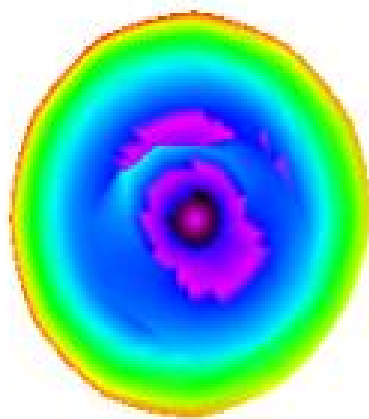
Freq/GHz	2400	2450	2500	5000	5500	5850
VSWR	1.3	1.5	1.5	1.4	1.5	1.5

WiFi antenna - Test data:

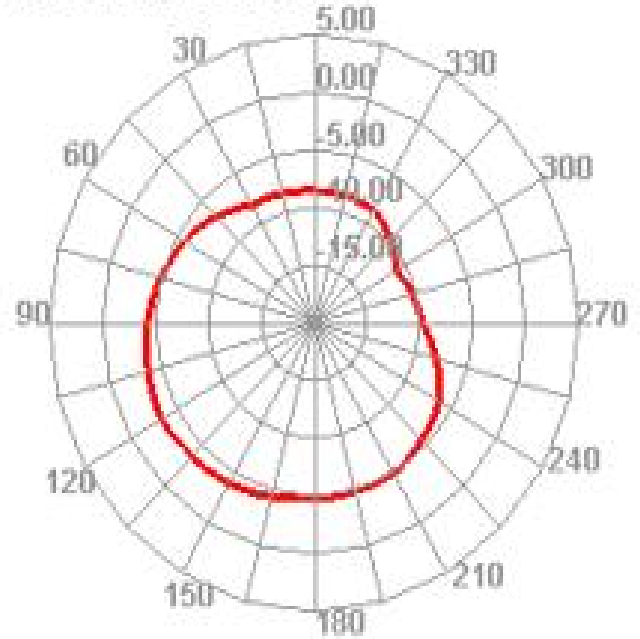
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	59.88	-2.23	2.56
2410	59.21	-2.74	2.14
2420	57.1	-2.43	2.43
2430	63.3	-2.73	2.05
2440	63.99	-1.94	2.75
2450	64.98	-1.87	2.67
2460	74.02	-2.67	1.75
2470	71.5	-2.11	2.22
2480	70.1	-2.21	2.05
2490	76.39	-1.78	2.4
2500	74.94	-2.6	1.44
5000	50.83	-5.11	-1.09
5100	56.87	-3.29	0.6
5200	58.49	-4.15	-0.6
5300	52.92	-2.76	1.17
5400	58.65	-3.13	1.22
5500	56.89	-2.8	1.26
5600	55.14	-2.91	1.36
5700	55.14	-3	1.37
5800	59.29	-3.25	1.43
5900	53.95	-3.1	0.56
6000	60.71	-2.96	2.21

2400 MHZ antenna Apple diagram Direction diagram

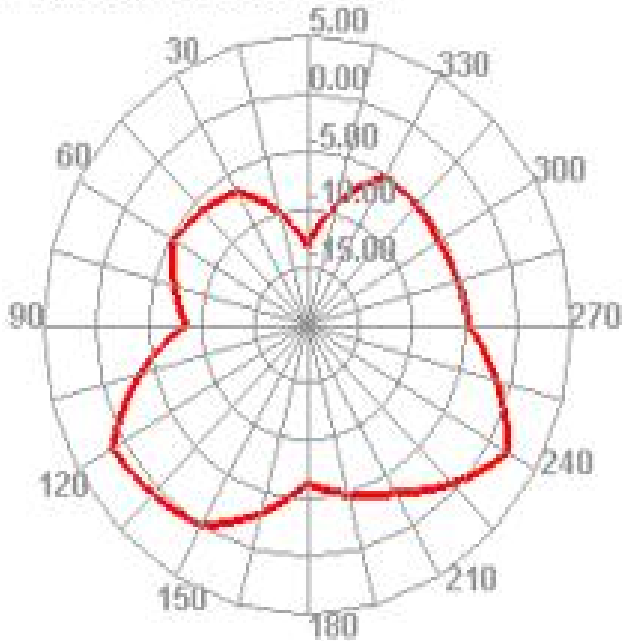
2400.000MHz



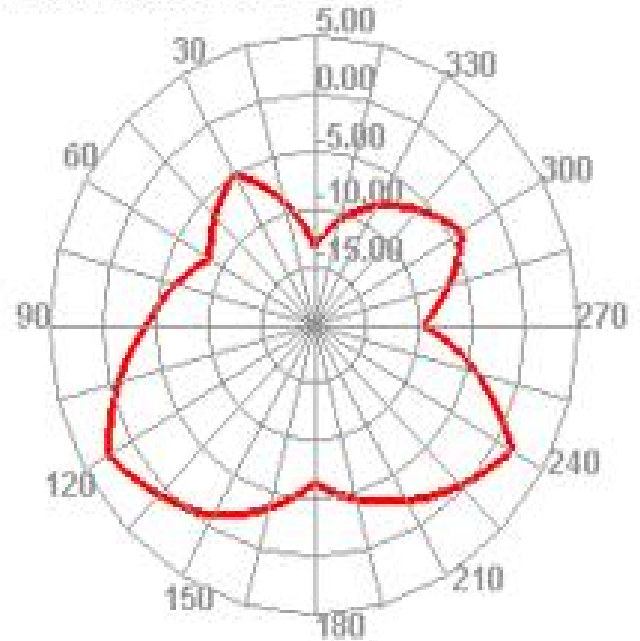
2400.000MHz H



2400.000MHz E1

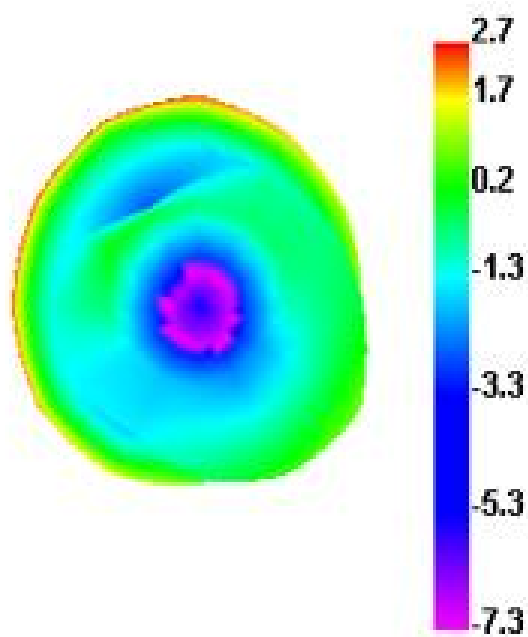


2400.000MHz E2

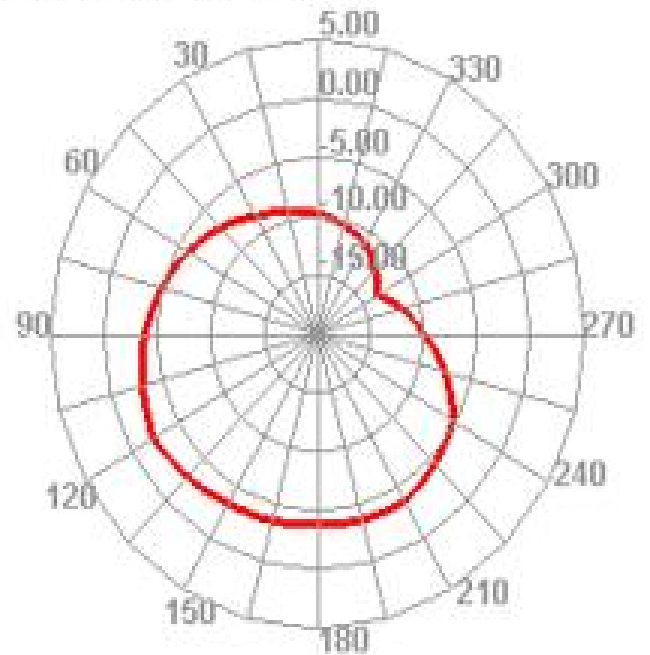


2450 MHZ antenna Apple diagram Direction diagram

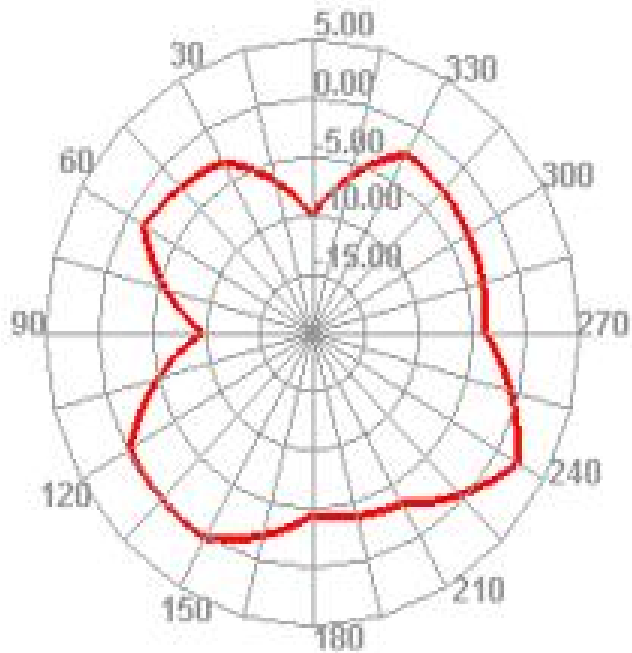
2450.000MHz



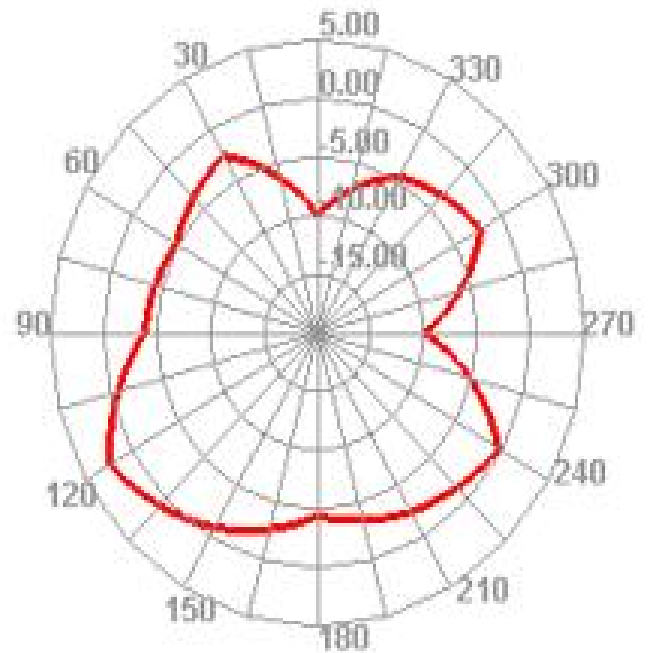
2450.000MHz H



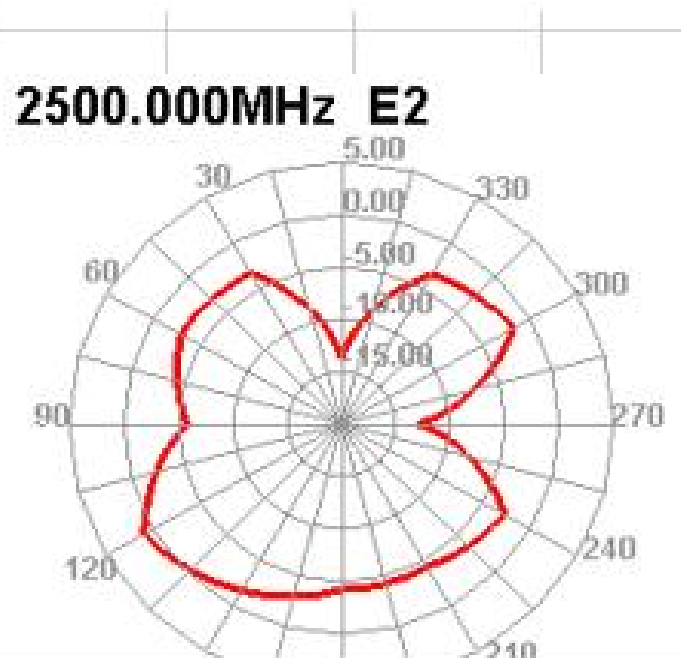
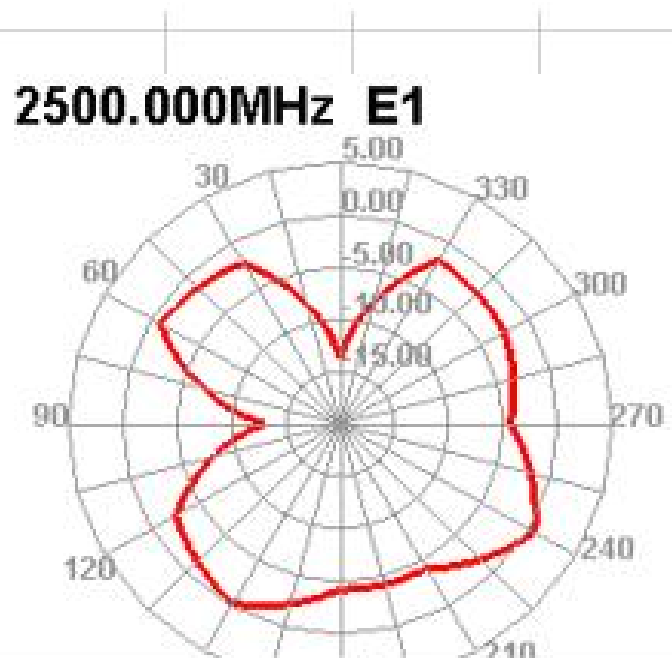
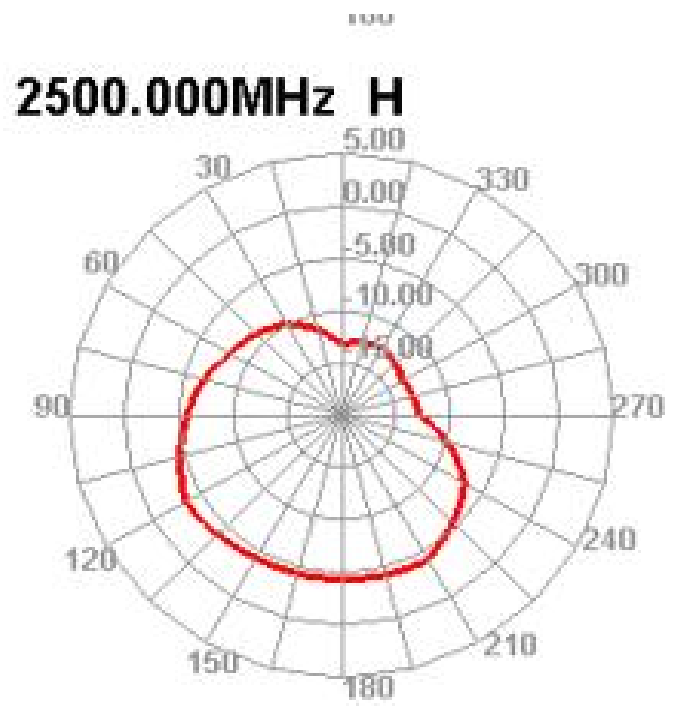
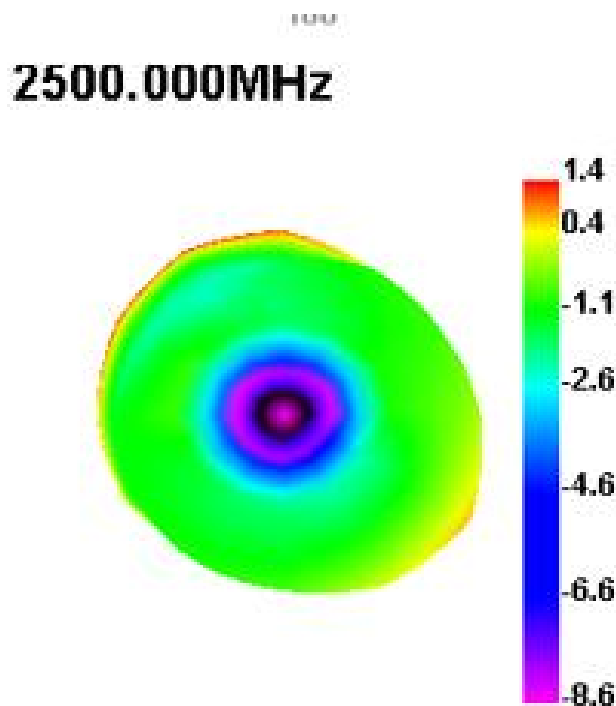
2450.000MHz E1



2450.000MHz E2

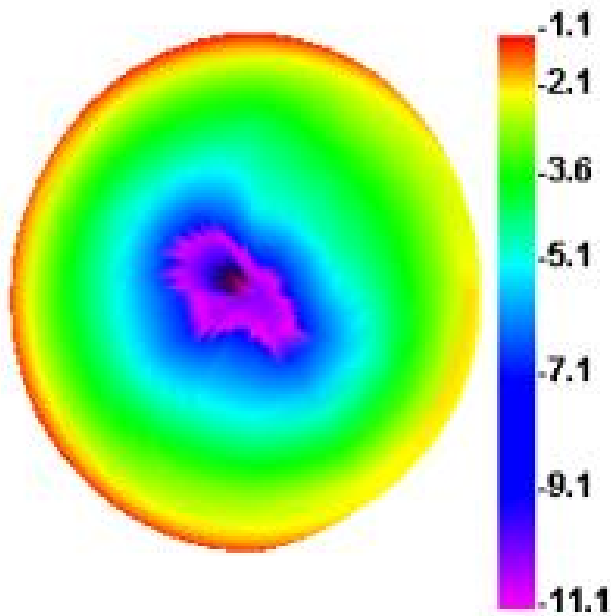


2500 MHZ antenna Apple diagram Direction diagram

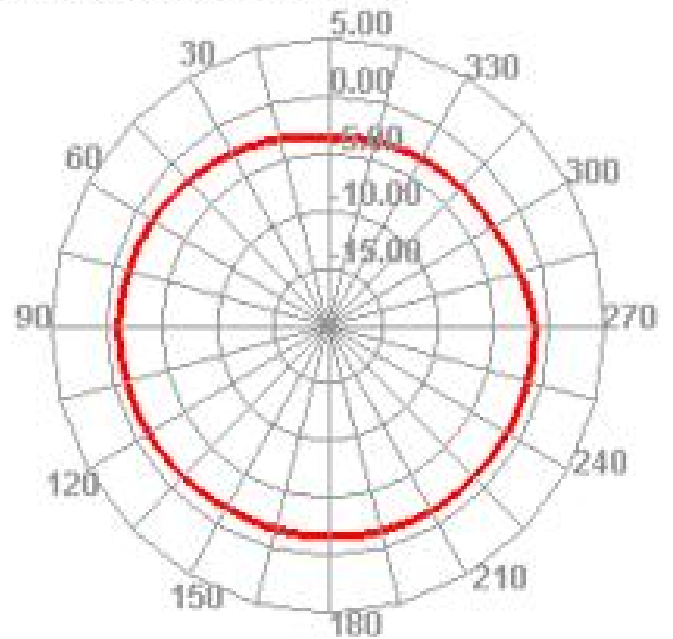


5000 MHZ antenna Apple diagram Direction diagram

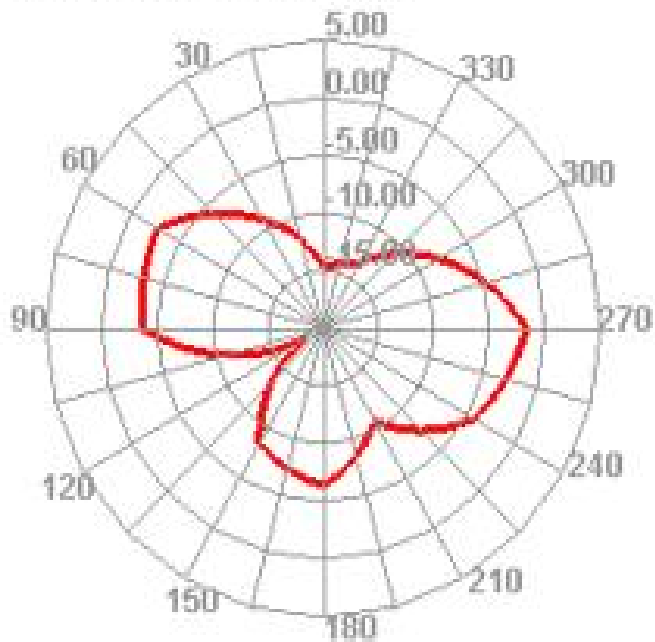
5000.000MHz



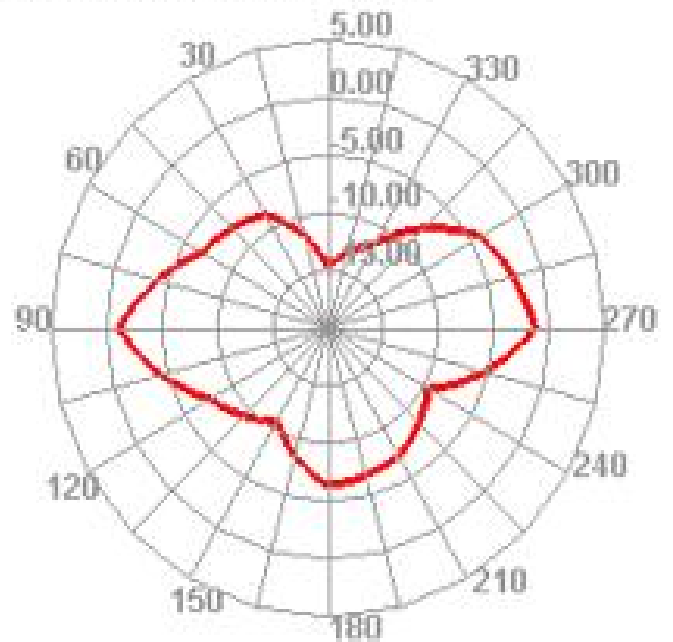
5000.000MHz H



5000.000MHz E1



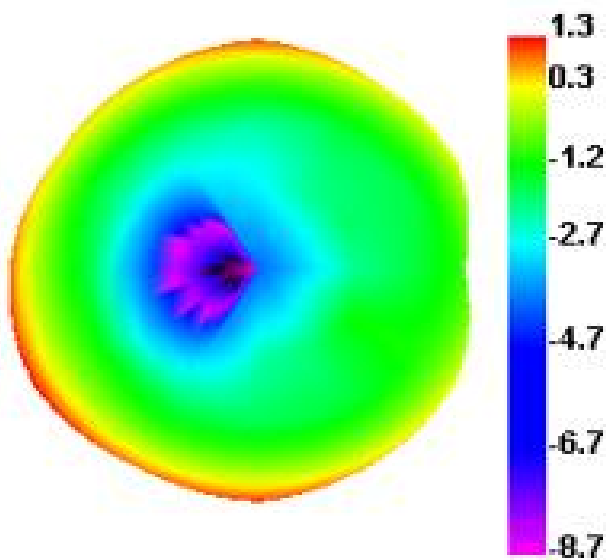
5000.000MHz E2



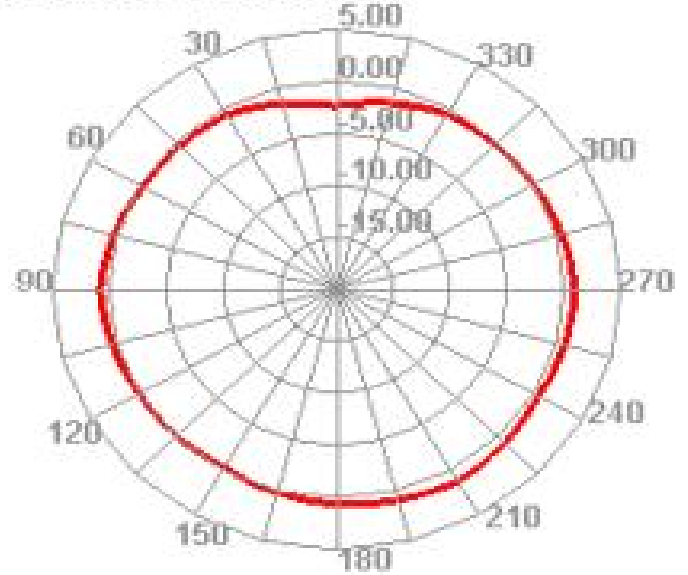
5000.000MHz

5500 MHZ antenna Apple diagram Direction diagram

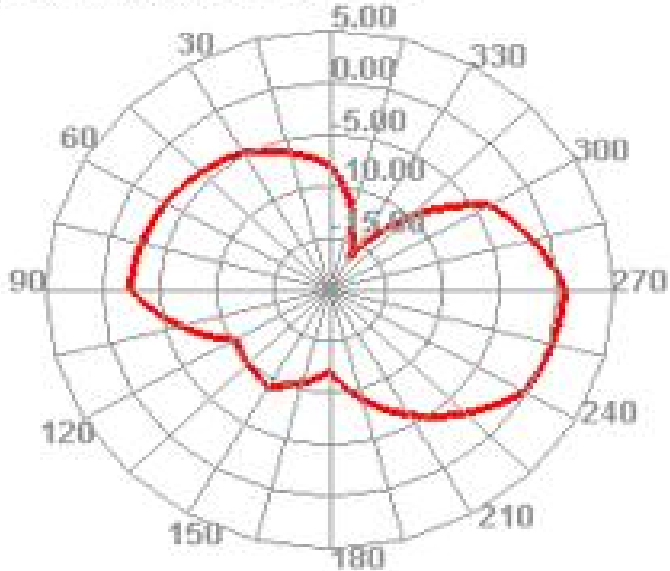
5500.000MHz



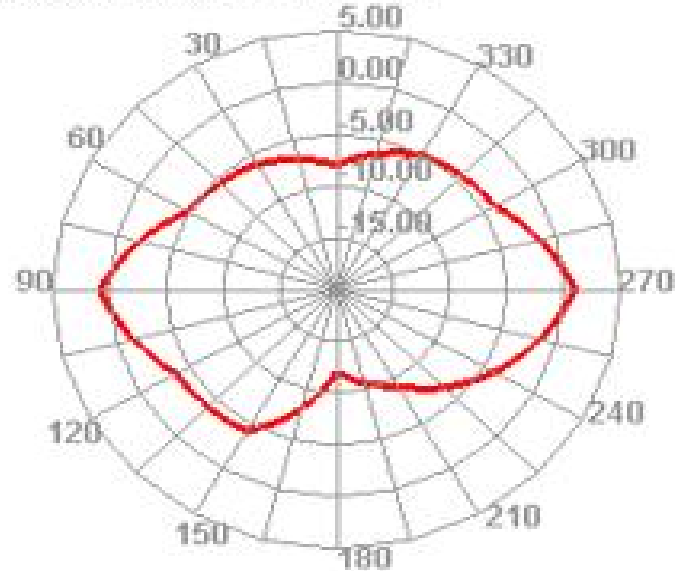
5500.000MHz H



5500.000MHz E1

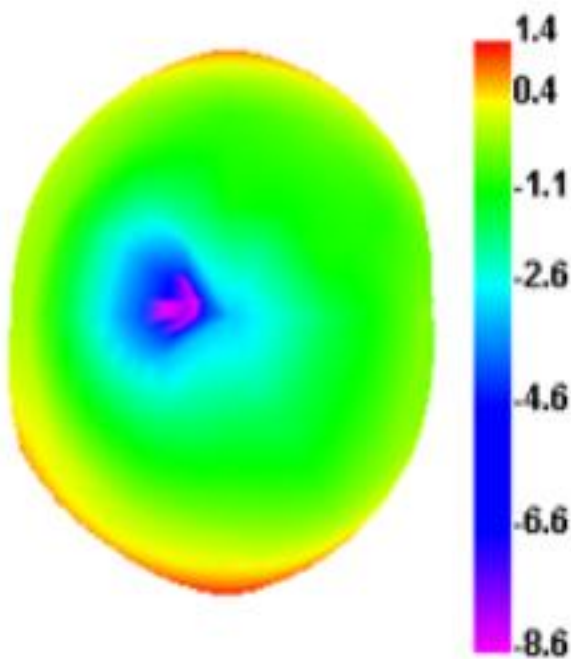


5500.000MHz E2

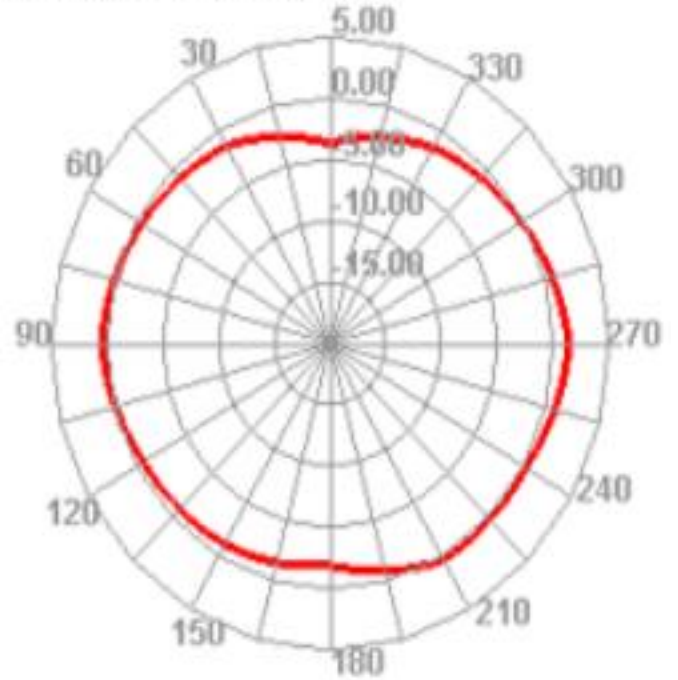


5800 MHZ antenna Apple diagram Direction diagram

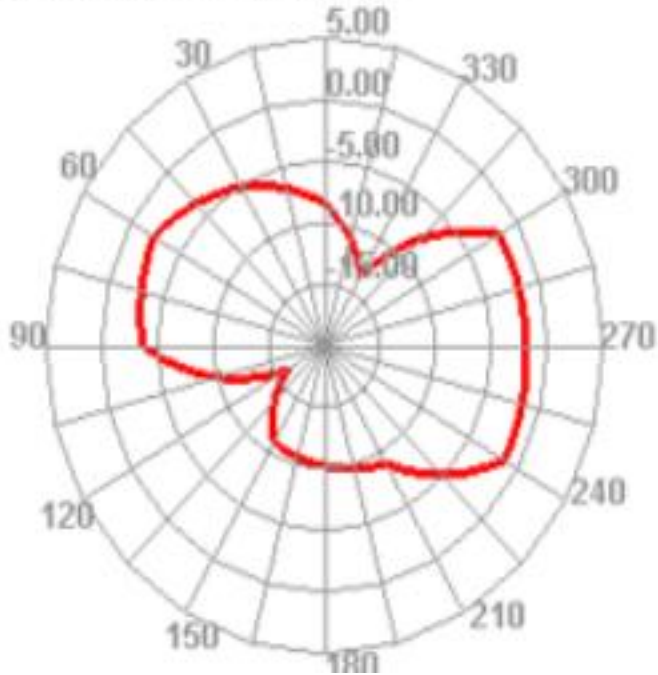
5800.000MHz



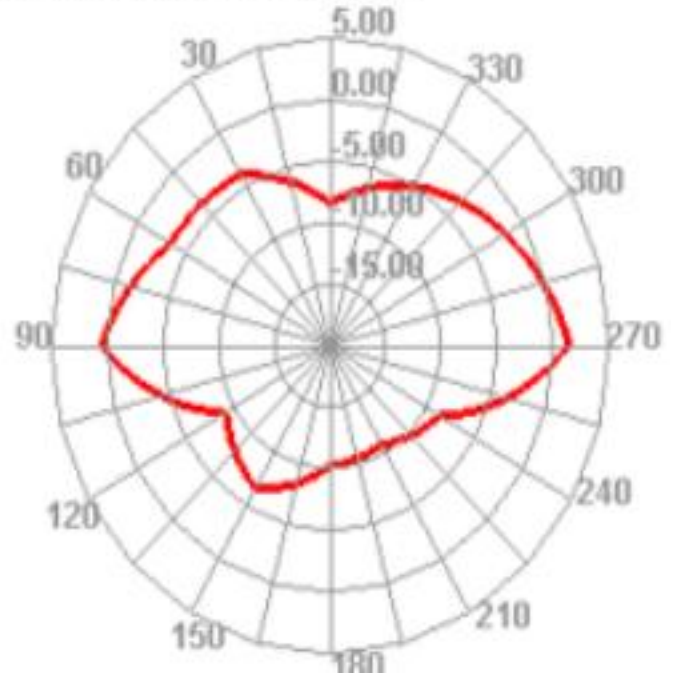
5800.000MHz H



5800.000MHz E1



5800.000MHz E2



WiFi-OTA active test data

Wifi 2G TRP			Wifi 2G TIS	
1	6	11	11	
2412	2437	2462	2462	
17.01	17.14	17.87	-90.13	
Wifi 5G TRP			Wifi 5G TIS	
36	64	149	149	
5180	5320	5745	5745	
13.86	15.1	14.89	-71.48	