



6515 IPRO Test report

2025.04.22

Shenzhen Kaipusen Communication Technology Co., LTD

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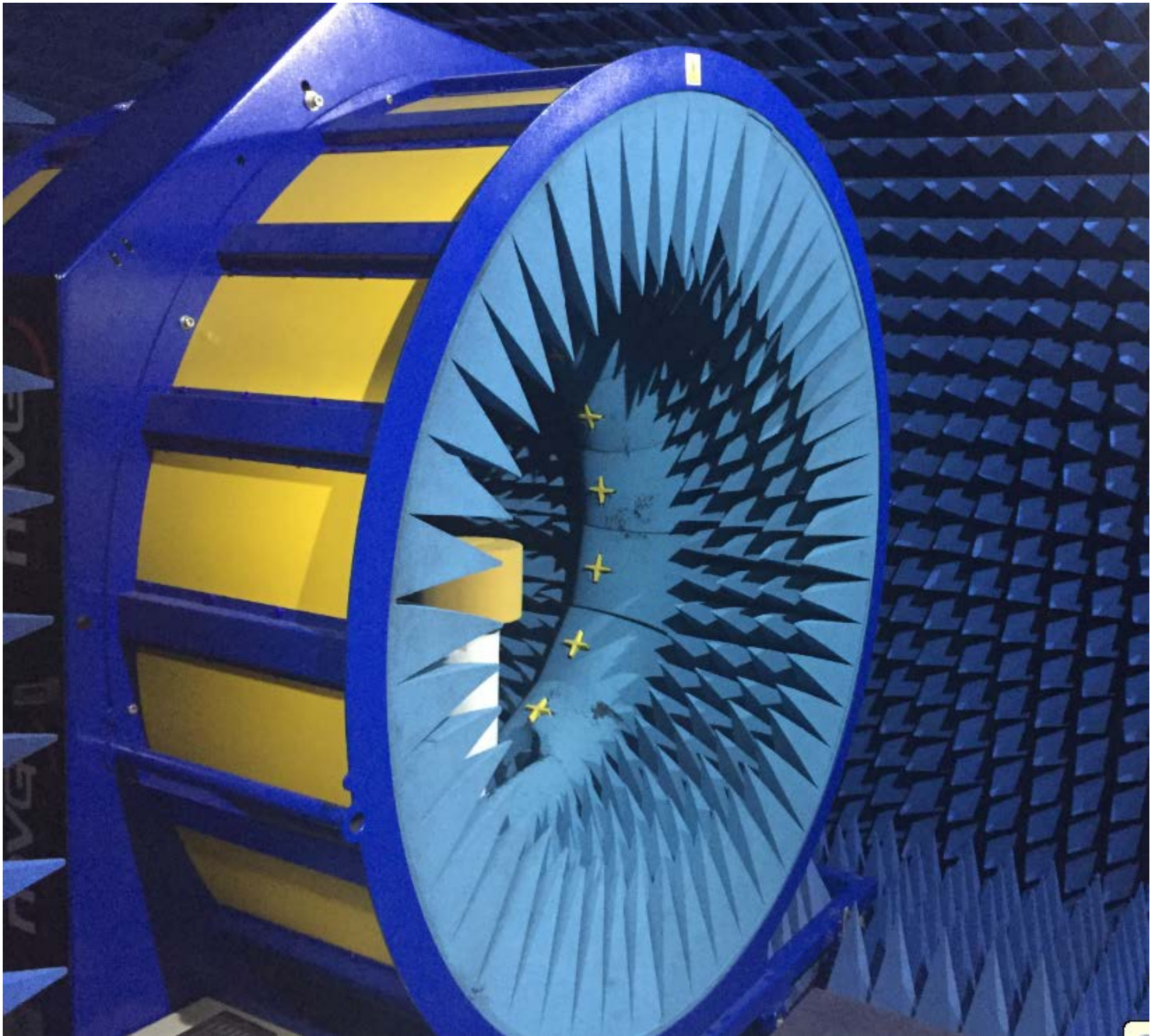
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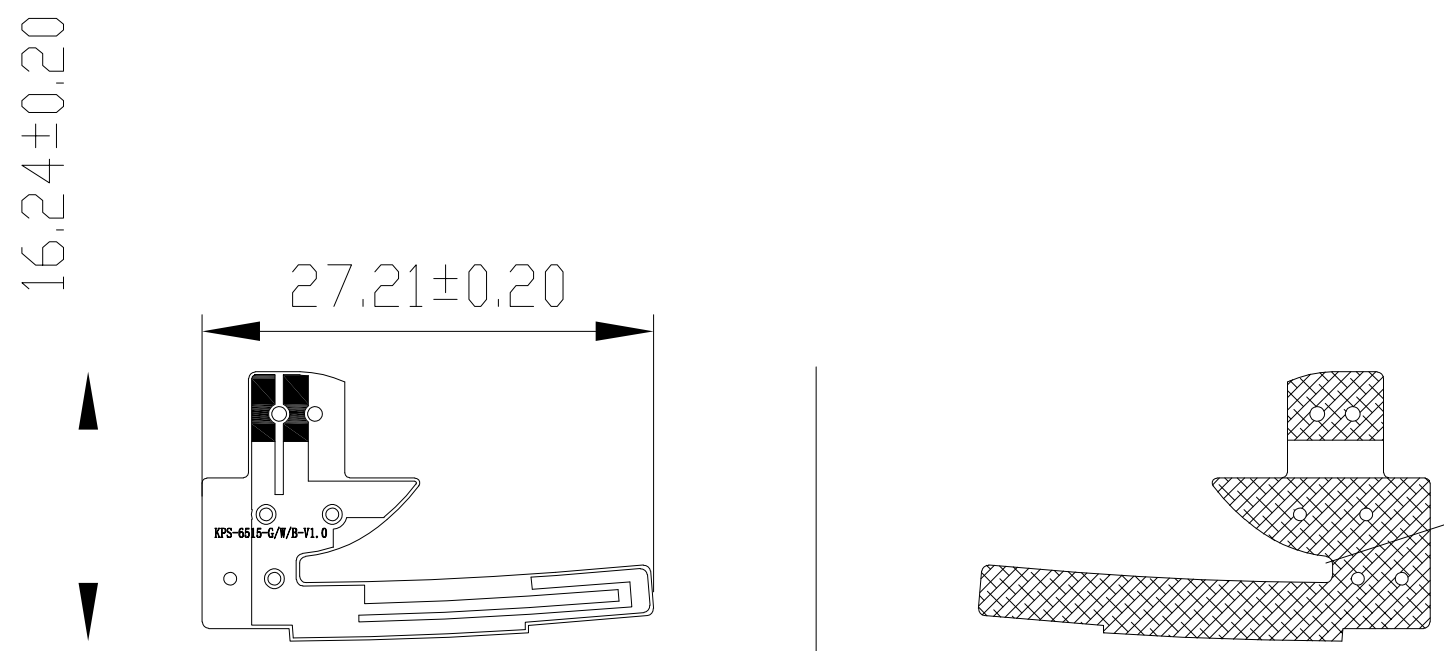
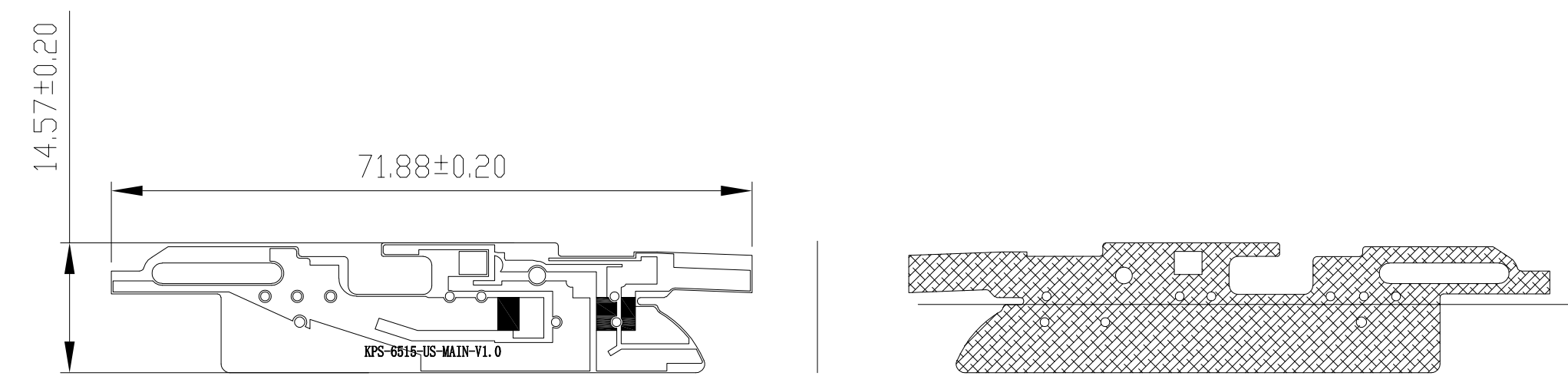
1.Laboratory test environment and equipment



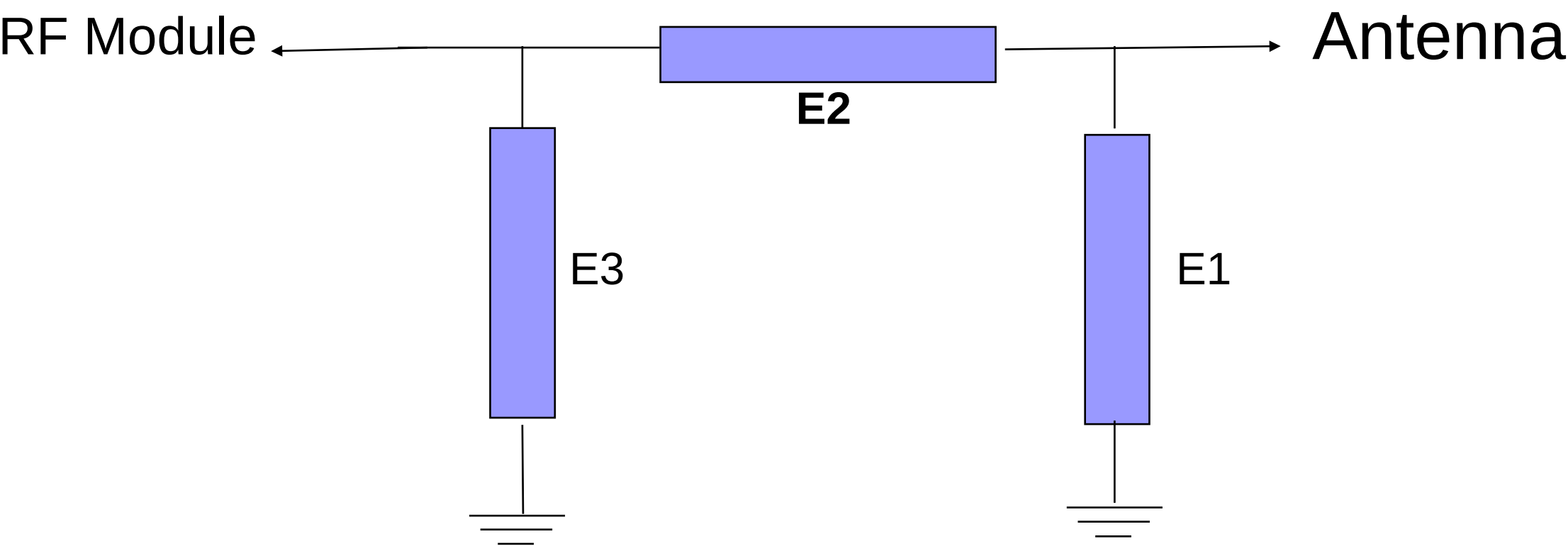
Test equipment
E5071B、 E5062A
Satimo SG16、 GP7*4*3、 E5071B
Satimo SG12、 8960 、 CMW500、 MT8820C、 E4438C 、



2.Antenna & placement



3. Matching circuit



MAIN	Element	Value	DIV	Element	Value	GWB	Element	Value
		Match without modification			Match without modification			Match without modification
		Match without modification			Match without modification			Match without modification
		Match without modification			Match without modification			Match without modification

4.Antenna test data

Frequency band	Channel	TRP(dbm)	TIS(dbm)	TIS(dbm) (Brighten the screen)	Frequency band	Channel	TRP(dbm)	TIS(dbm)	TIS(dbm) (Brighten the screen)
GSM 850	Low	25.1			WCDMA1	Low	16.4		
	Mid	24.6				Mid	16.6		
	Hig	24.3	-101.6	-100.4		Hig	16.3	-105.4	-105.1
EGSM 900	Low	24.8			WCDMA2	Low	15.7		
	Mid	25.1				Mid	16.2		
	Hig	25.3	-101.4	-100.6		Hig	15.8	-105.2	-104.5
DCS 1800	Low	23.5			WCDMA4	Low	15.5		
	Mid	23.3				Mid	15.7		
	Hig	23.7	-103.5	-103.3		Hig	15.6	-104.6	-104.2
PCS 1900	Low	23.8			WCDMA5	Low	16.1		
	Mid	24.1				Mid	16.3		
	Hig	24.0	-104.4	-103.9		Hig	16.6	-103.3	-102.2

Frequency band	Channel	TRP(dbm)	TIS(dbm)	TIS(dbm) (Brighten the screen)	Frequency band	Channel	TRP(dbm)	TIS(dbm)	TIS(dbm) (Brighten the screen)
LTE B2	Low	16.3			LTE B5	Low	16.1		
	Mid	16.7				Mid	16.5		
	Hig	16.4	-92.8	-92.2		Hig	16.6	-90.2	-89.1
LTE B4	Low	15.8			LTE B7	Low	16.8		
	Mid	15.6				Mid	17.5		
	Hig	16.0	-91.1	-90.6		Hig	18.0	-91.2	-90.9

5.WiFi active test data

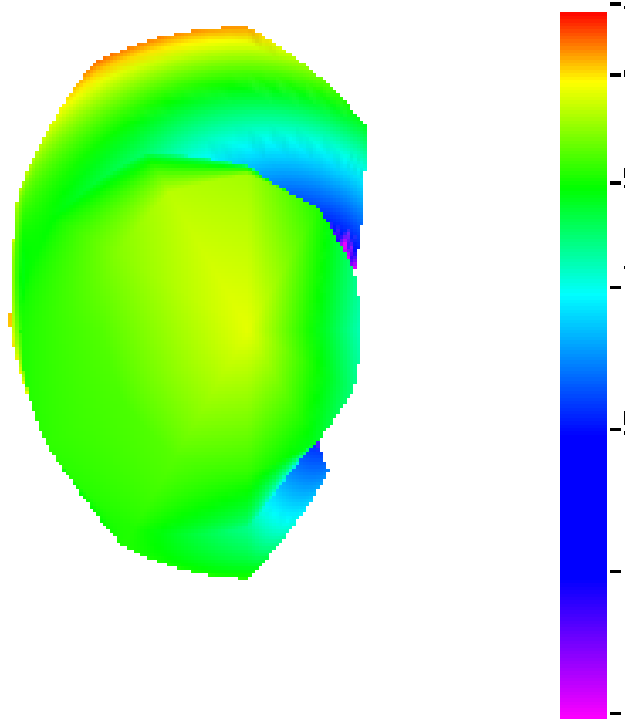
Channel	TRP(dBm)	TIS(dBm)
1	10.7	-78.8
6	11.1	-78.9
12	10.5	-79.1

WIFI 2.4G

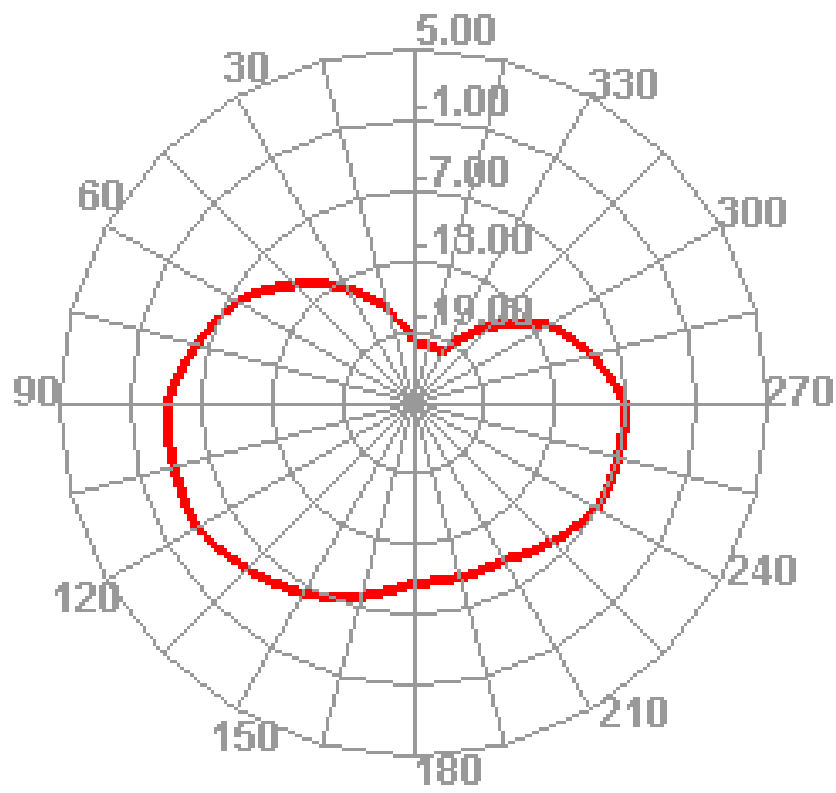
Antenna Pattern Drawing

B2

1900.000MHz

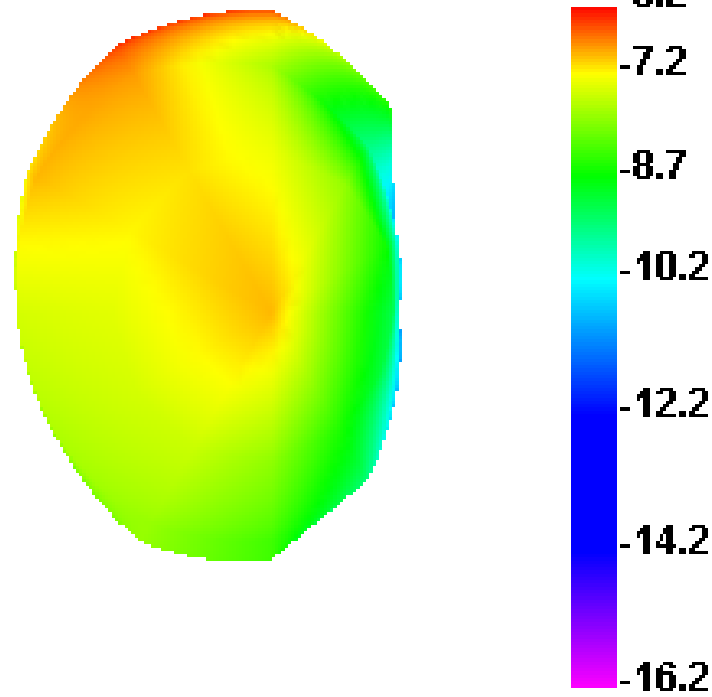


1900.000MHz H

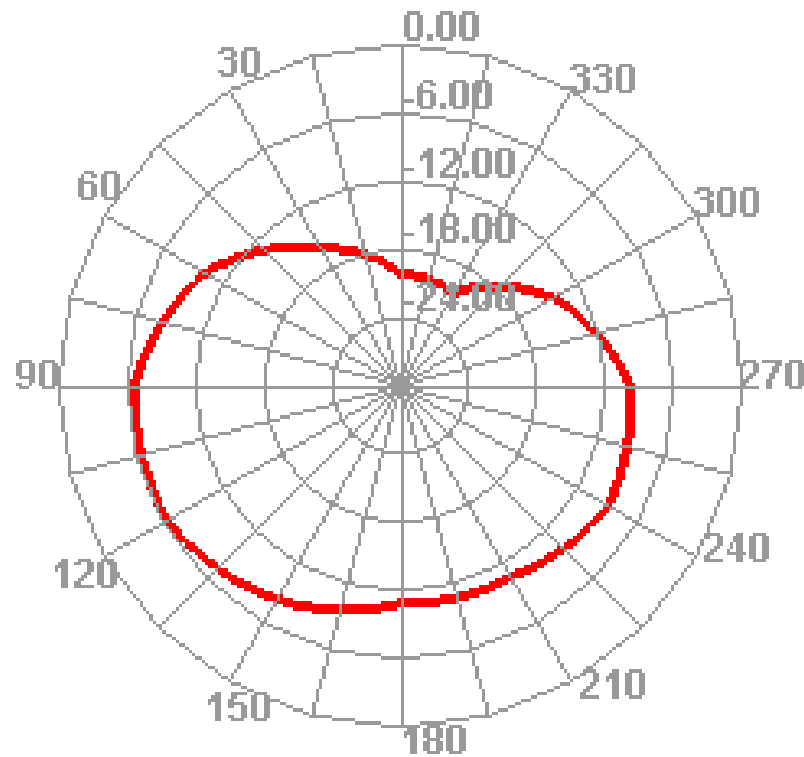


B4

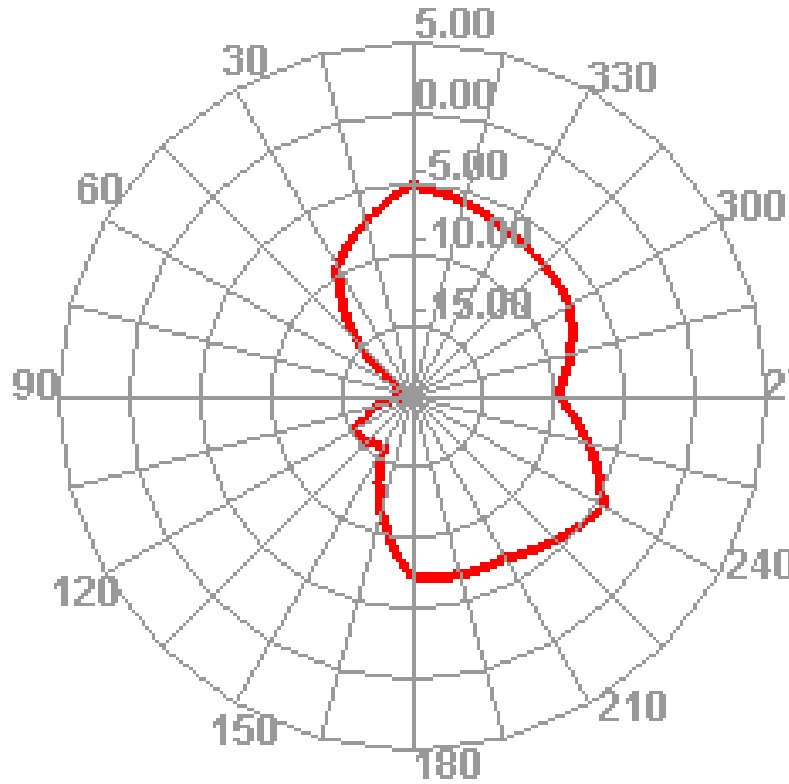
1750.000MHz



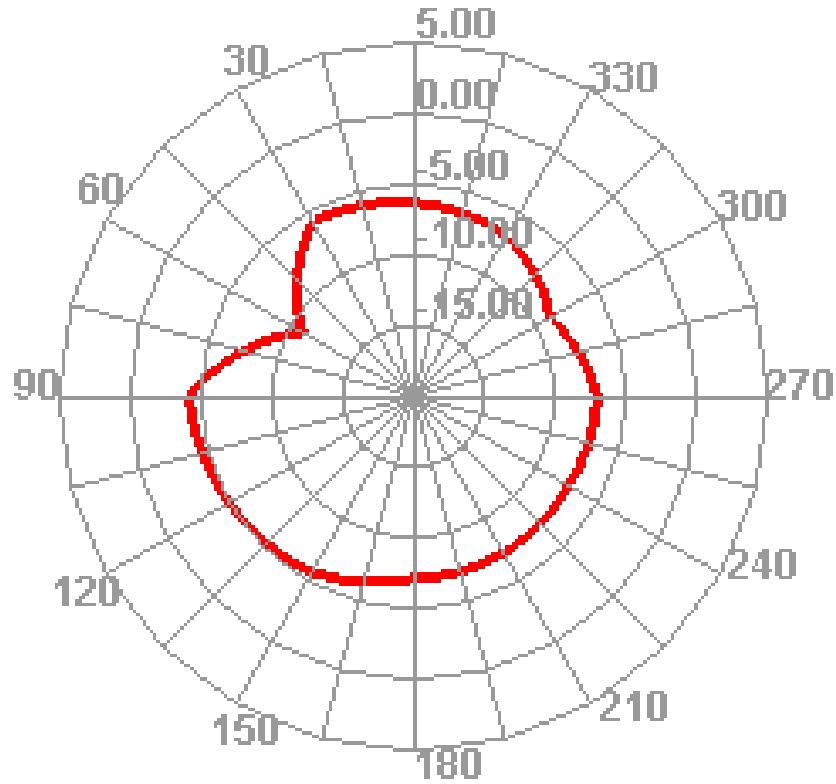
1750.000MHz H



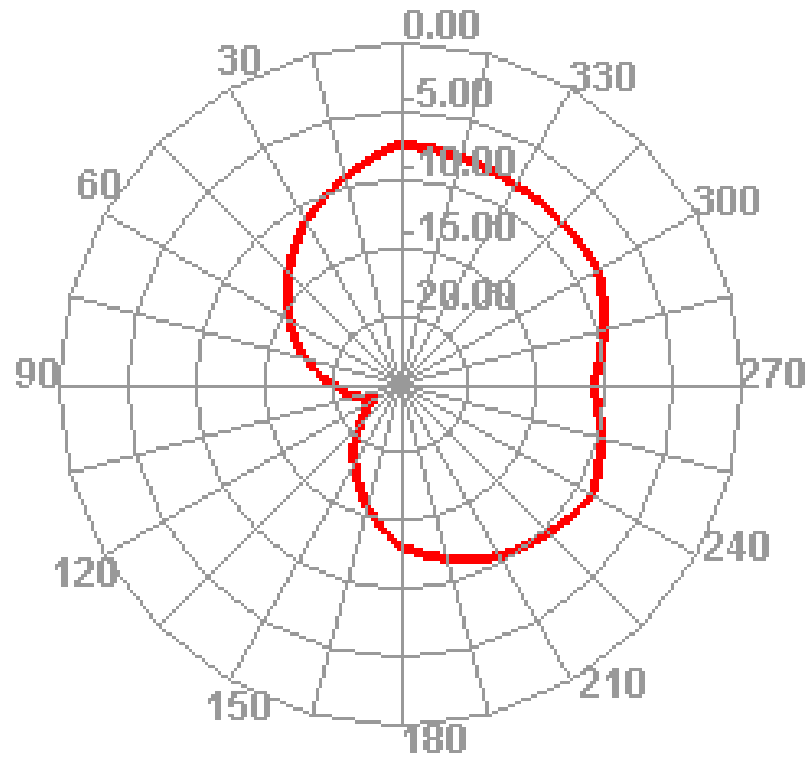
1900.000MHz E1



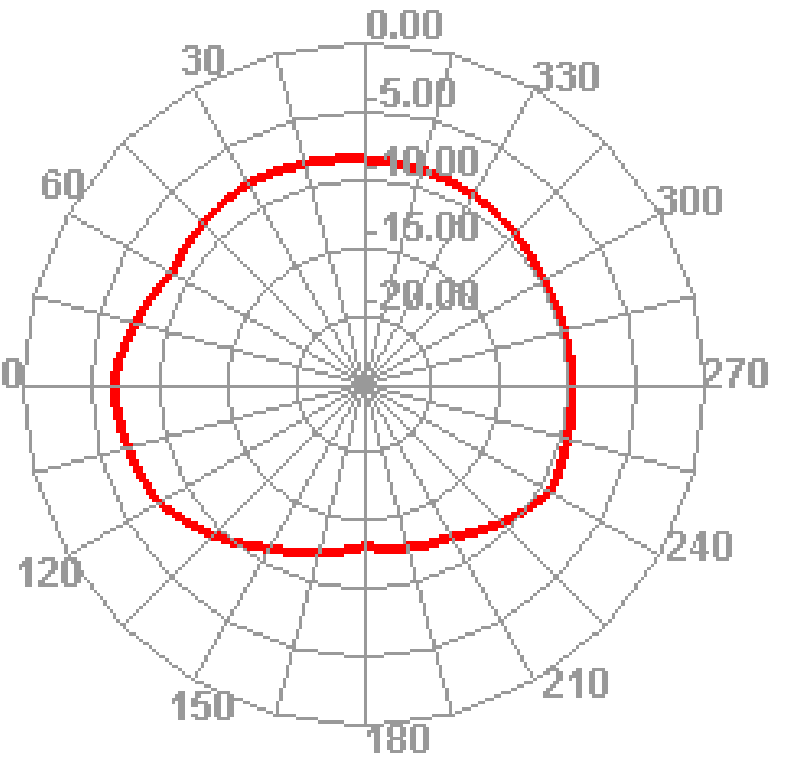
1900.000MHz E2



1750.000MHz E1

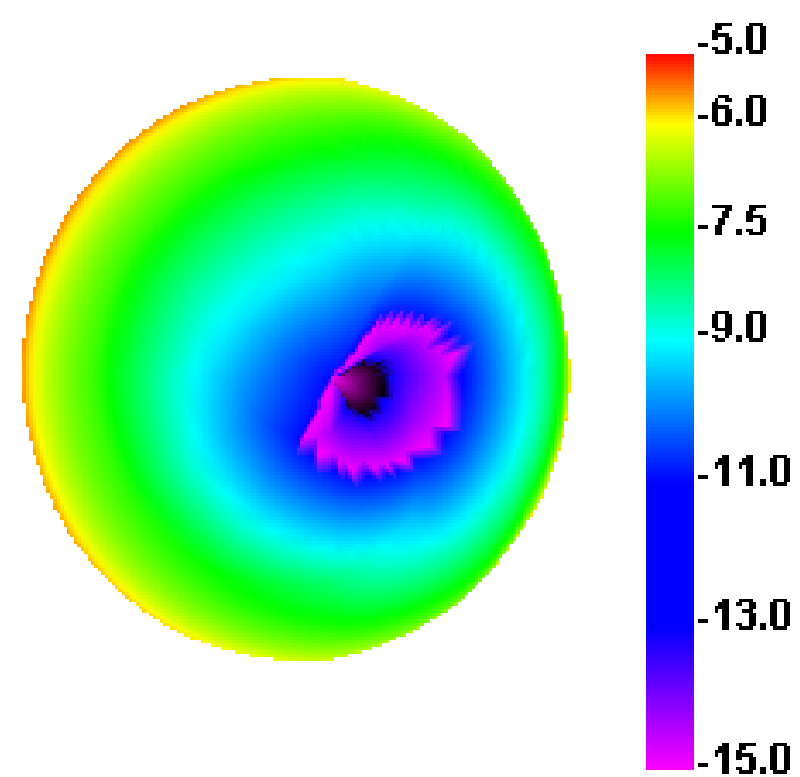


1750.000MHz E2

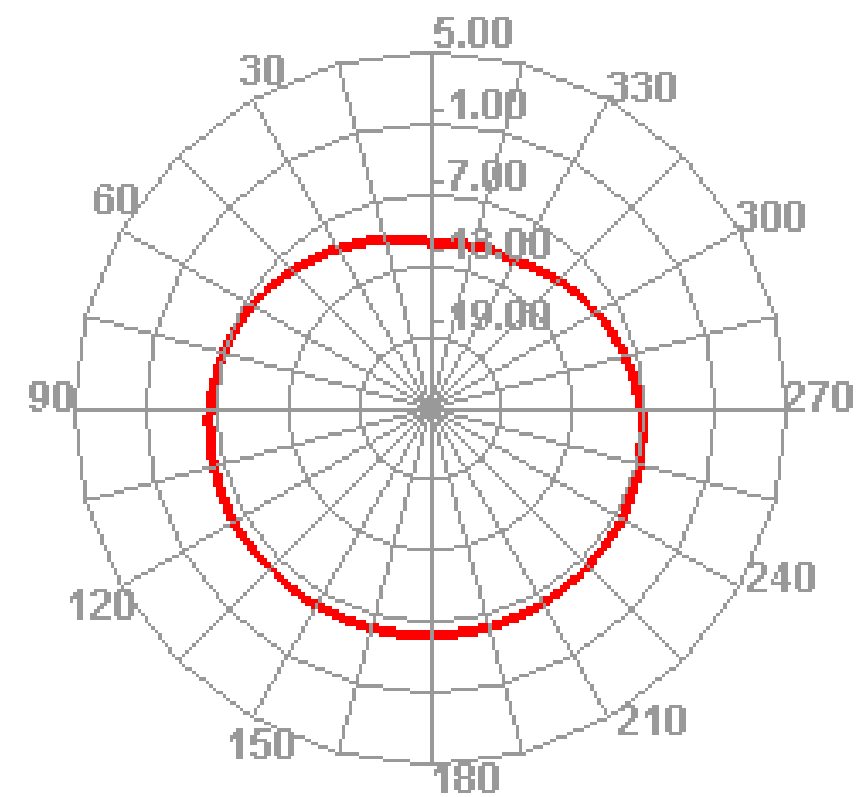


B5

850.000MHz

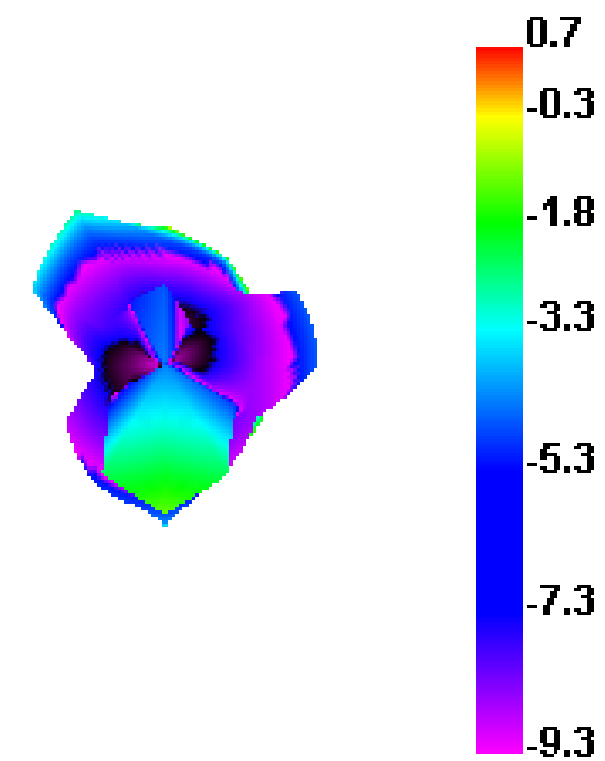


850.000MHz H

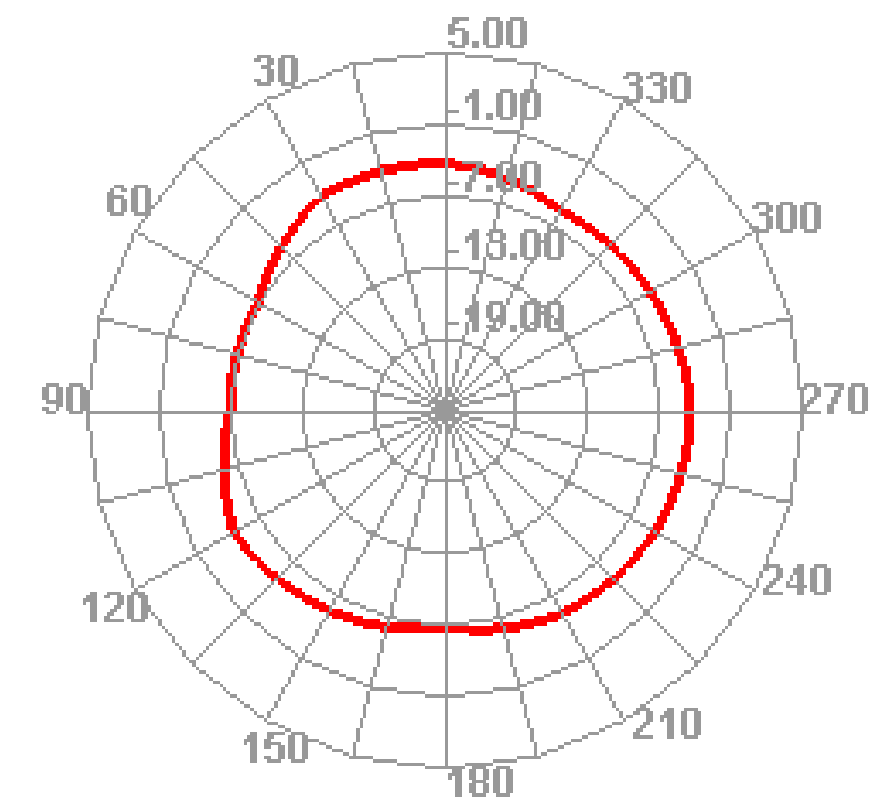


B7

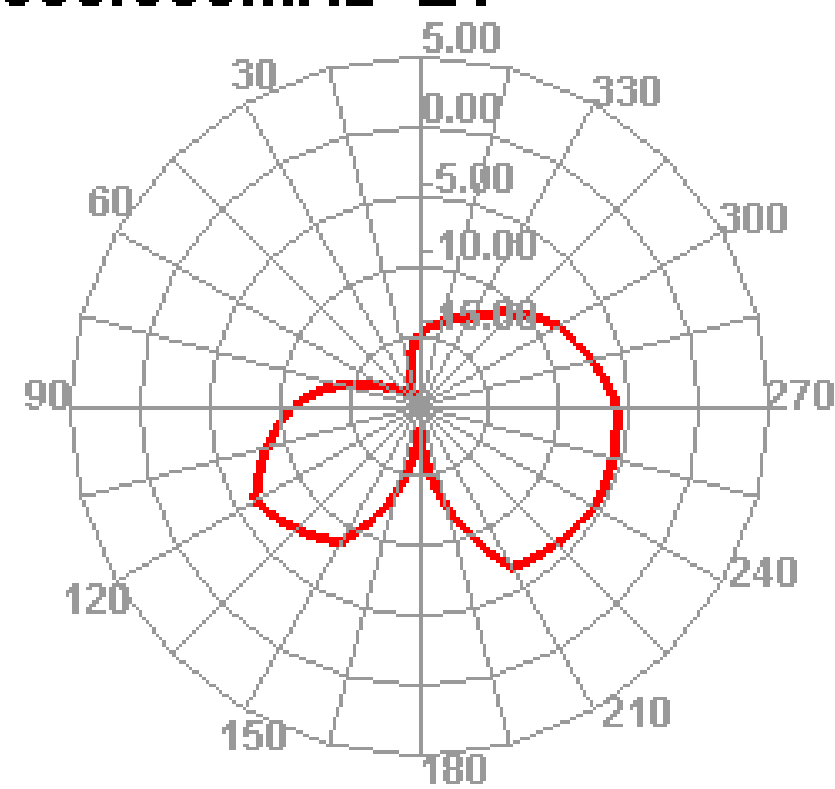
2600.000MHz



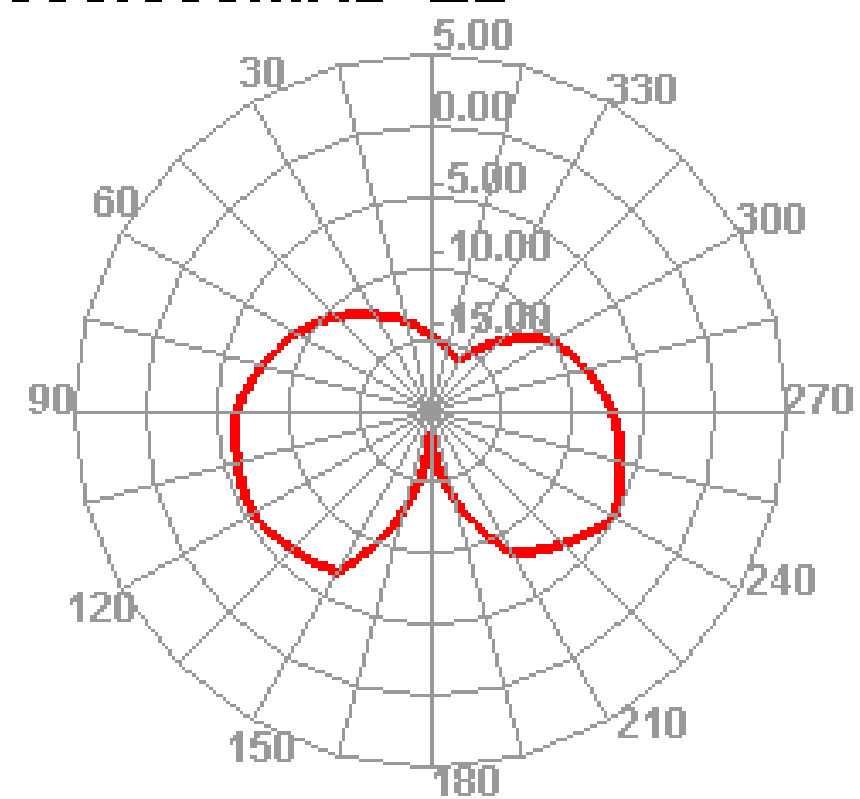
2600.000MHz H



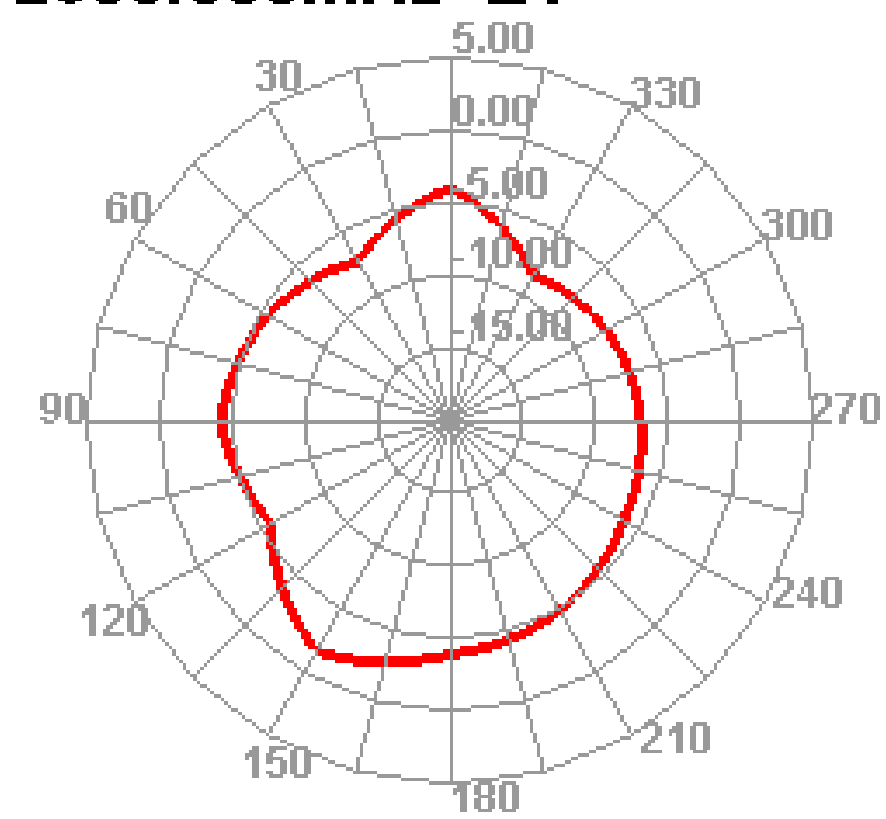
850.000MHz E1



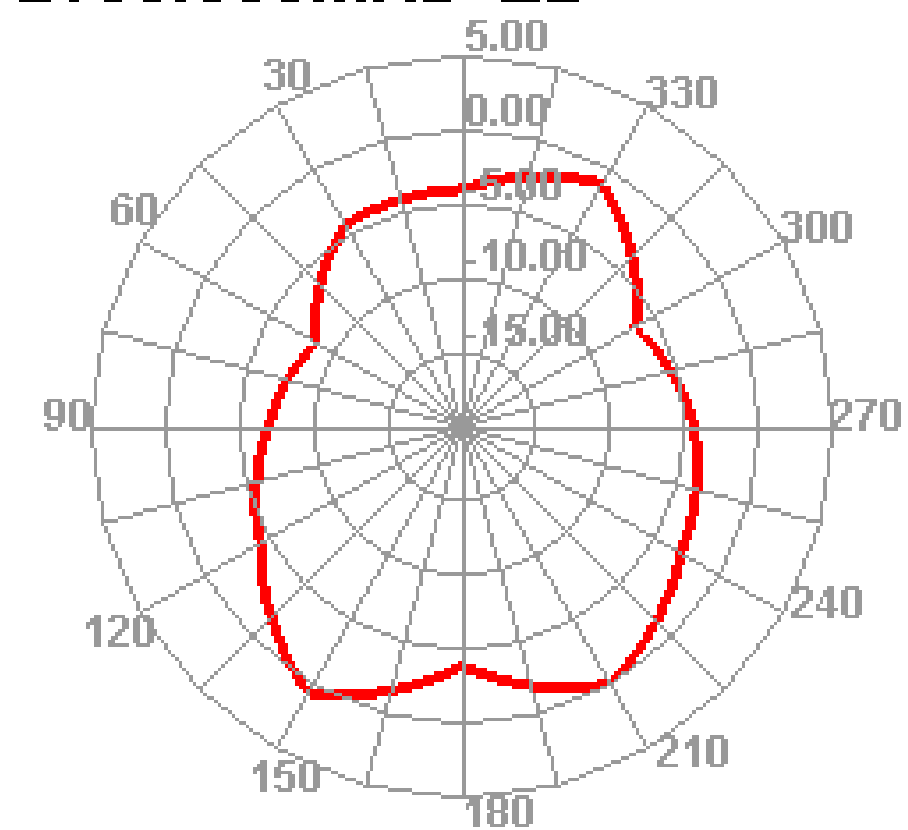
850.000MHz E2



2600.000MHz E1

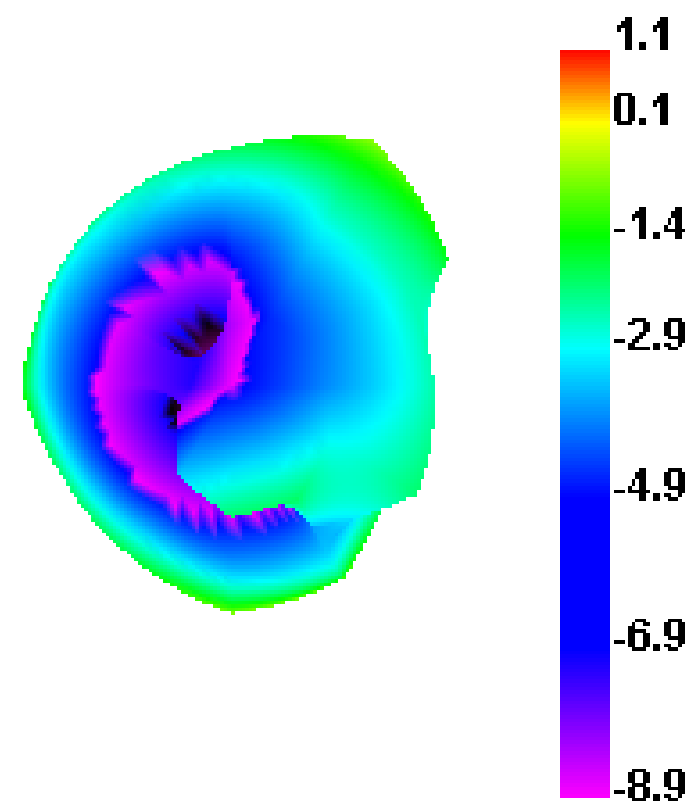


2600.000MHz E2

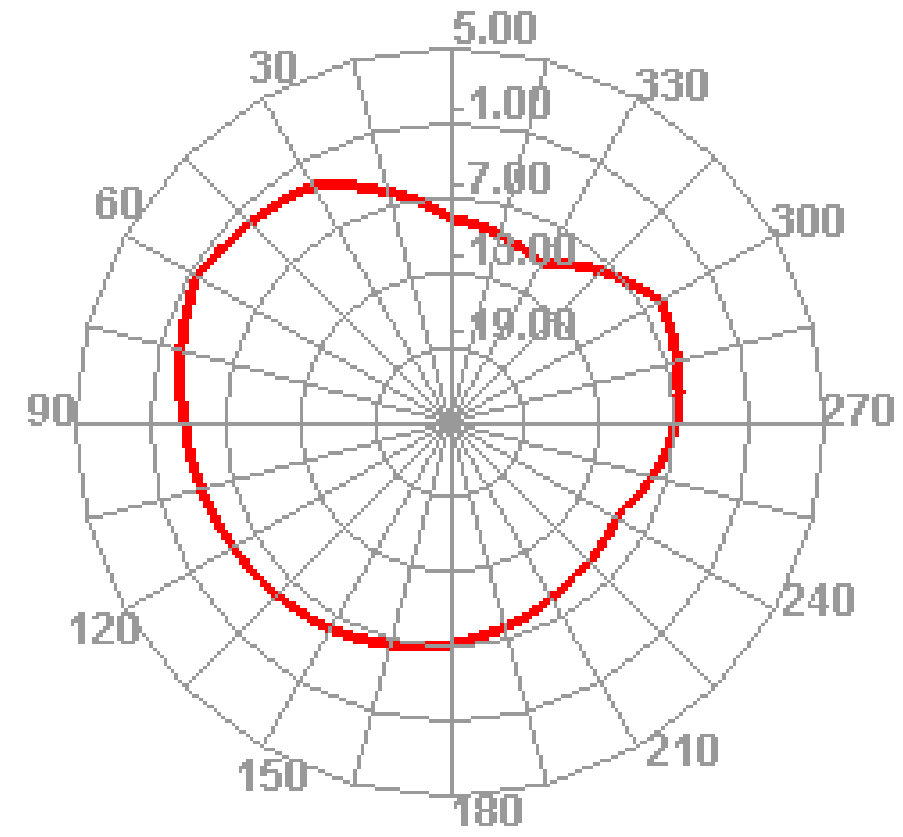


2.4G WIFI

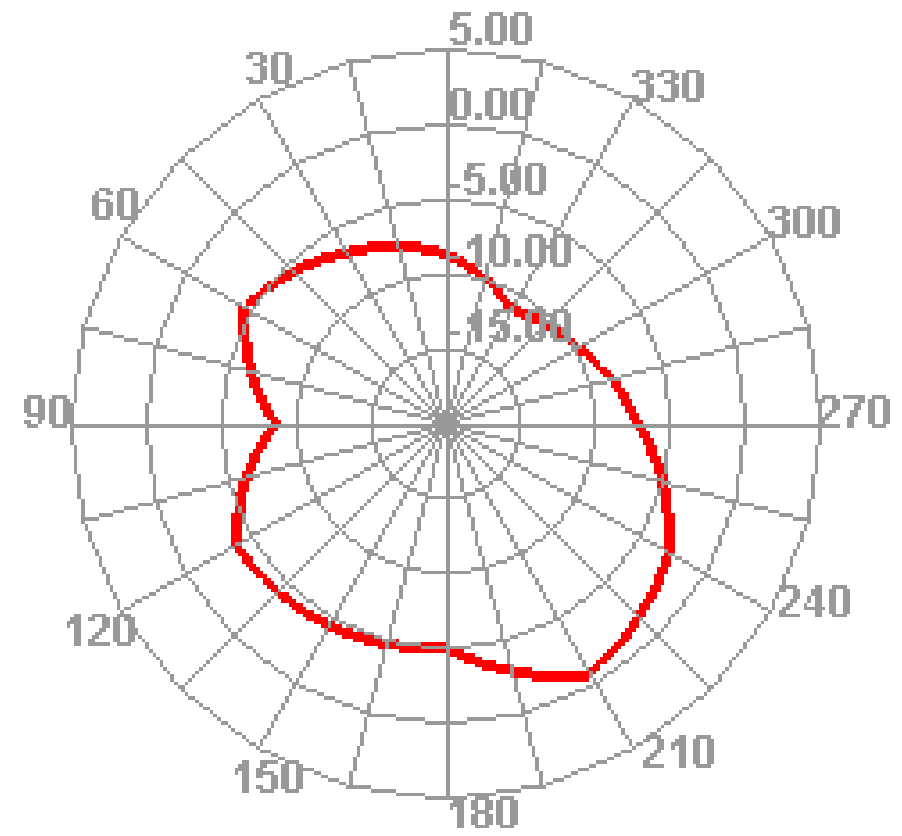
2450.000MHz



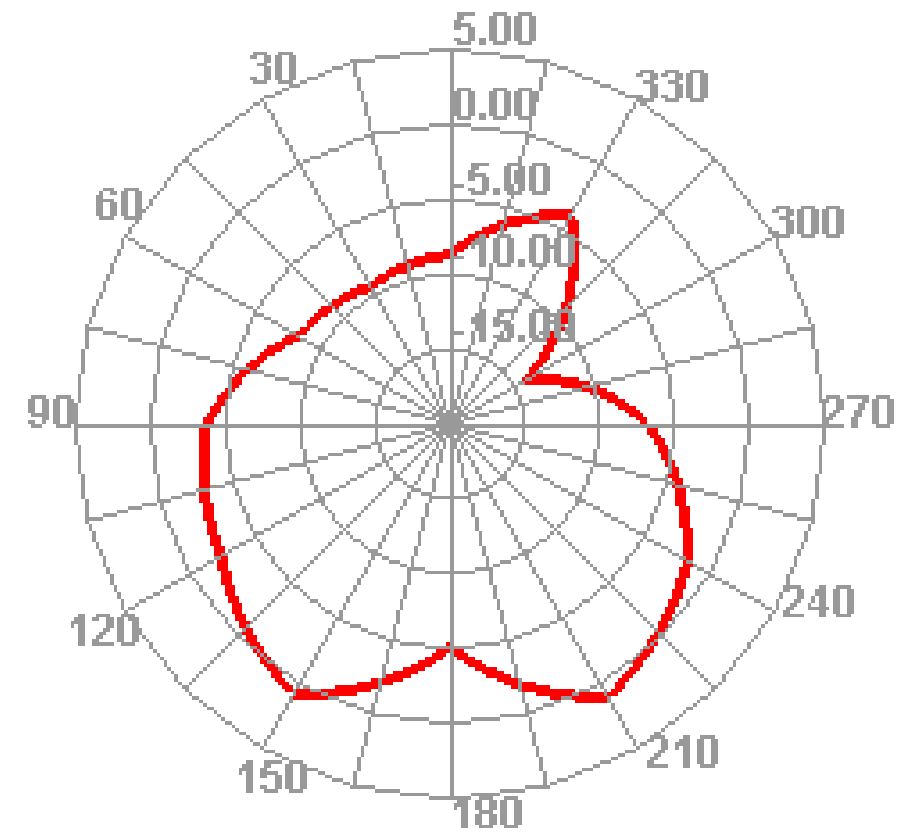
2450.000MHz H



2450.000MHz E1



2450.000MHz E2



6.Measurement effect of GPS antenna



GPS	Maximum signal strength	Number of star searches	Weather condition	GPS measurement with drawings
	43	10+	Clear Weather	

7.Passive efficiency and gain

BAND	Effi	Effi	Gain
	(%)	(dB)	(dBi)
GSM850	25. 2	-5. 99	-4. 99
GSM900	17. 6	-7. 55	-4. 07
GSM1800	25	-6. 02	-4. 28
GSM1900	20. 7	-6. 85	-3. 1
W1	23. 2	-6. 35	-5. 01
W2	20. 7	-6. 85	-3. 1
W4	25	-6. 02	-4. 28
W5	25. 2	-5. 99	-4. 99
B2	20. 7	-6. 85	-3. 1
B4	21. 4	-6. 68	-6. 21
B5	25. 2	-5. 99	-4. 99
B7	35. 4	-4. 51	0. 67
WIFI2. 4G	37. 31	-4. 28	1. 06

8. Antenna description

Main antenna specification size : 72.9*14.5*0.11mm

Diversity specification size : 19.3*12.7*0.11mm

GPS/BT/WIFI specification size : 27.2*12.2*0.11mm

Diversity screen printing : KPS-6515-DIV

Main antenna screen printing : KPS-6515-MAIN

GPS/BT/WIFIscreen printing : KPS-6515-G/W/B

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THANK YOU

