

Antenna Test Report

SHENZHEN KURUIJIE

Customer: 联代

Project: H5508-39B1

RF Engineer: 邹修依

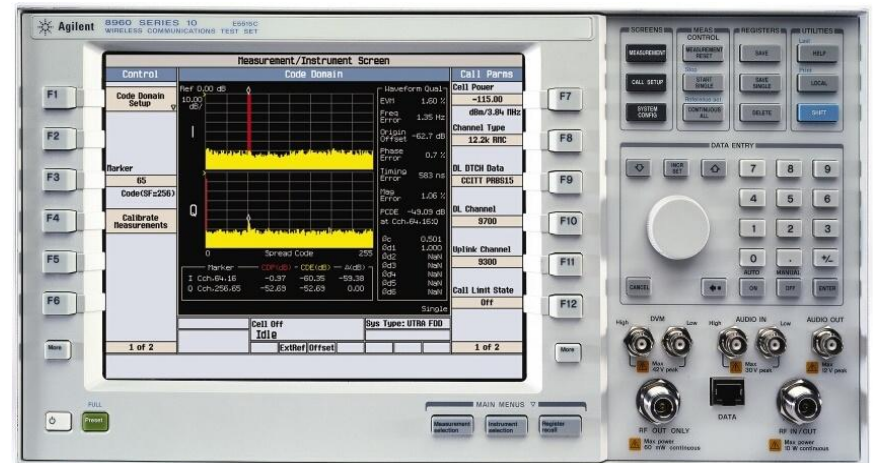
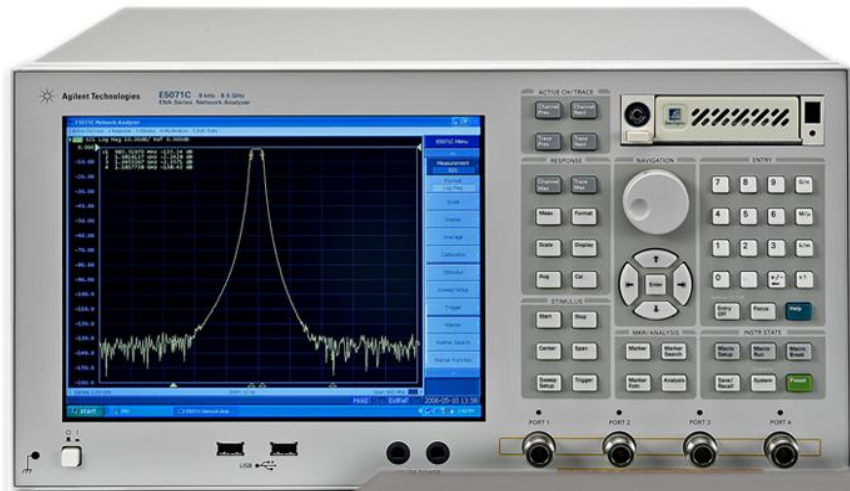
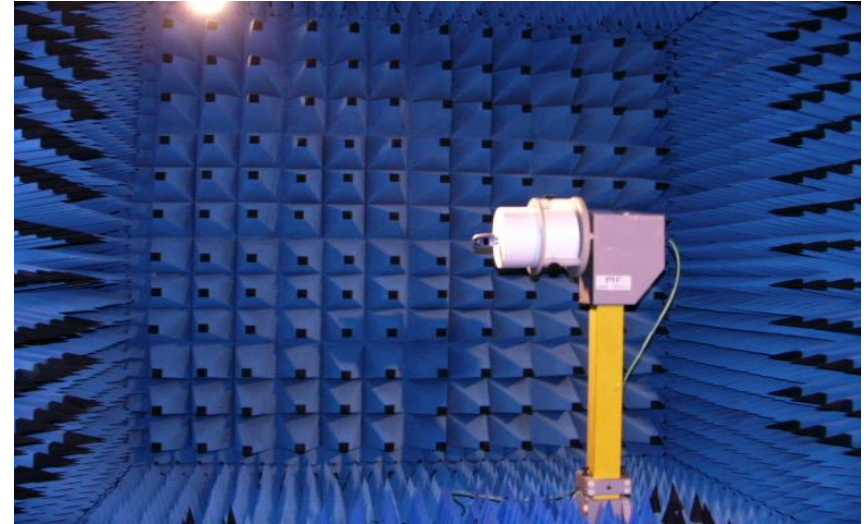
Testing Date: 2025.1.19

Index:

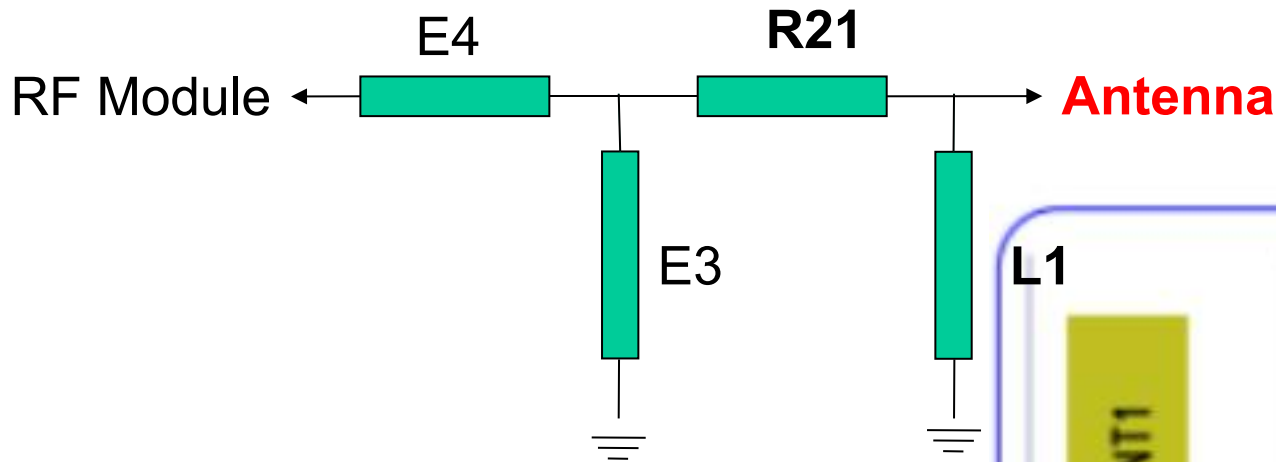
- 1. Testing Item & Equipments**
- 2. Matching Circuits**
- 3. Environmental Disposal**
- 4. Test Data**

1. The Equipment of Active Test

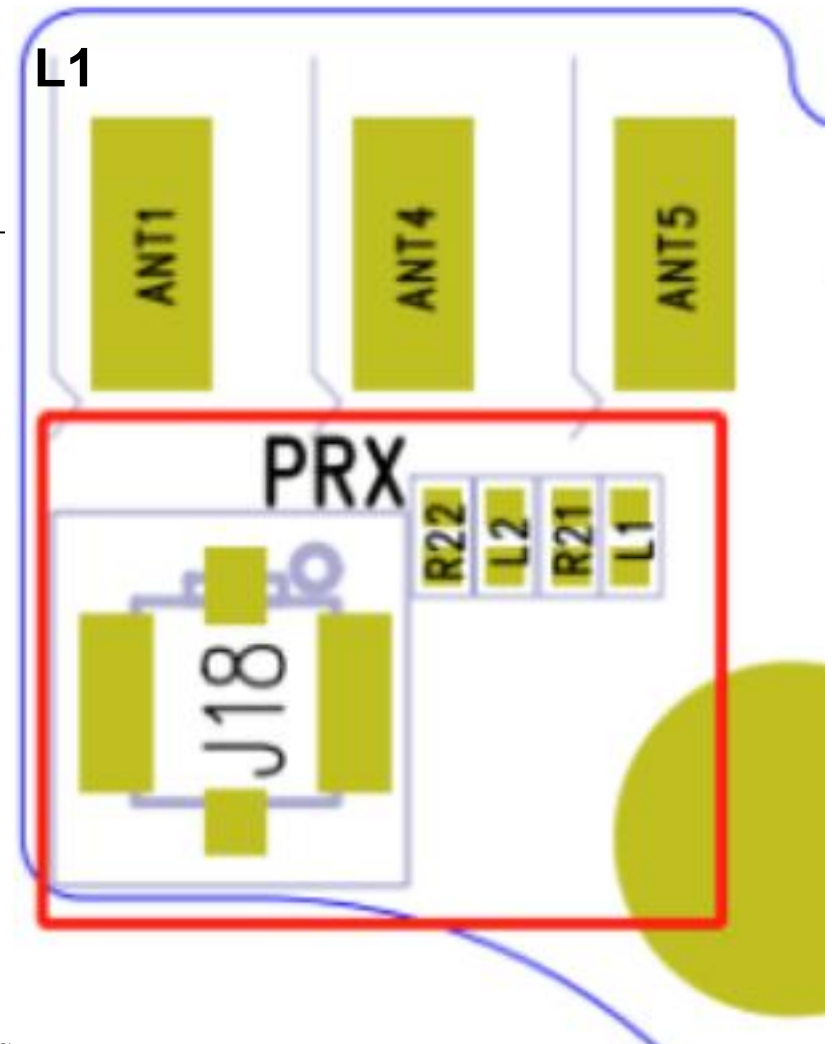
- 1: Anechoic Chamber 7x4x3 m (3D)
- 2: Rohde & Schwarz CMW500
- 3: AGILENT 8960 5515C
- 4: Network Analyzer-AGILENT ENA5071B



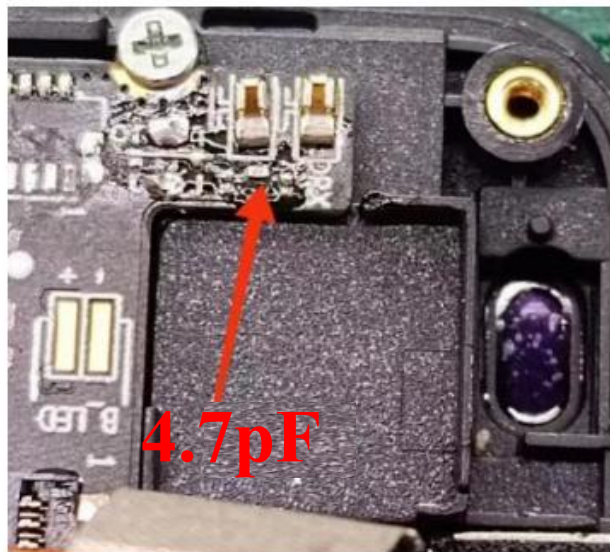
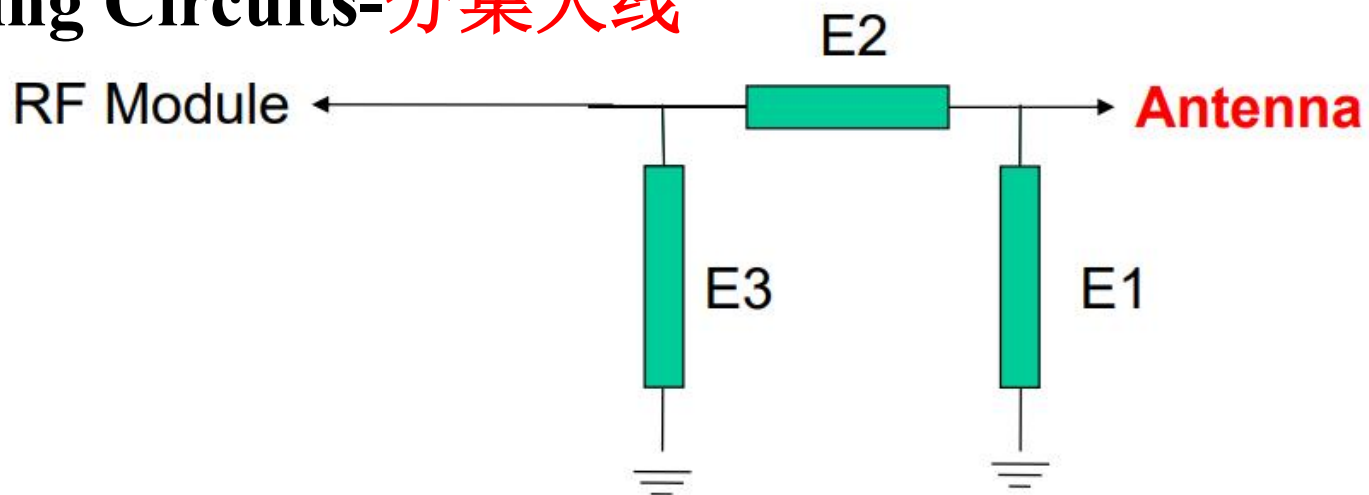
2. Matching Circuits-主天线



Element	Value
L1(0201)	15nH
R21(0201)	4.7pF
L2(0201)	NC
R22(0201)	0Ω



2. Matching Circuits-分集天线



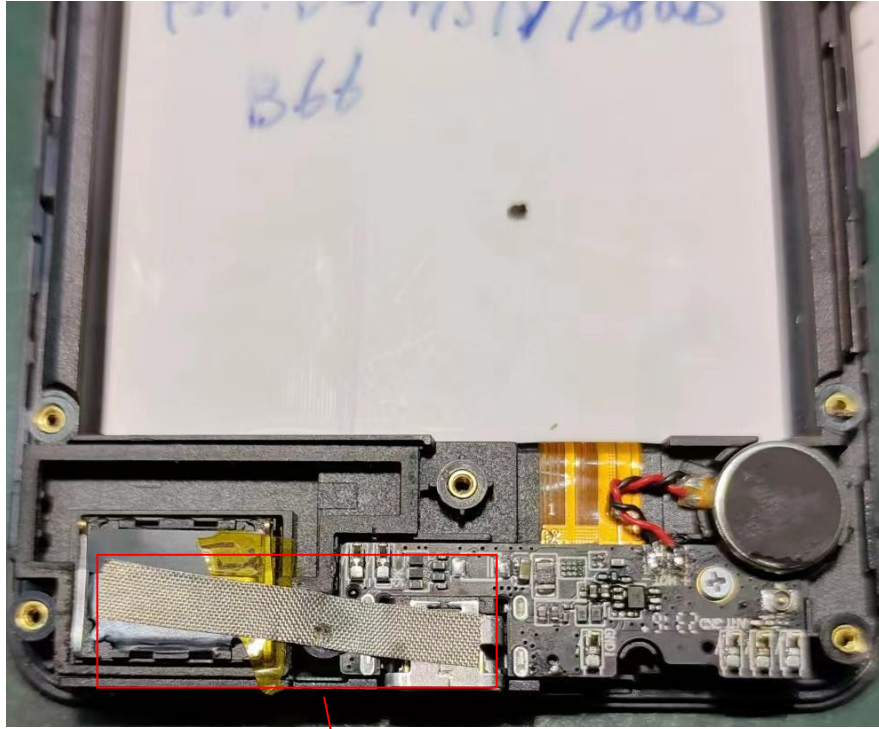
Element	Value
E1(0201)	NC
E2(0201)	4.7PF
E3(0201)	NC

3. 开关逻辑

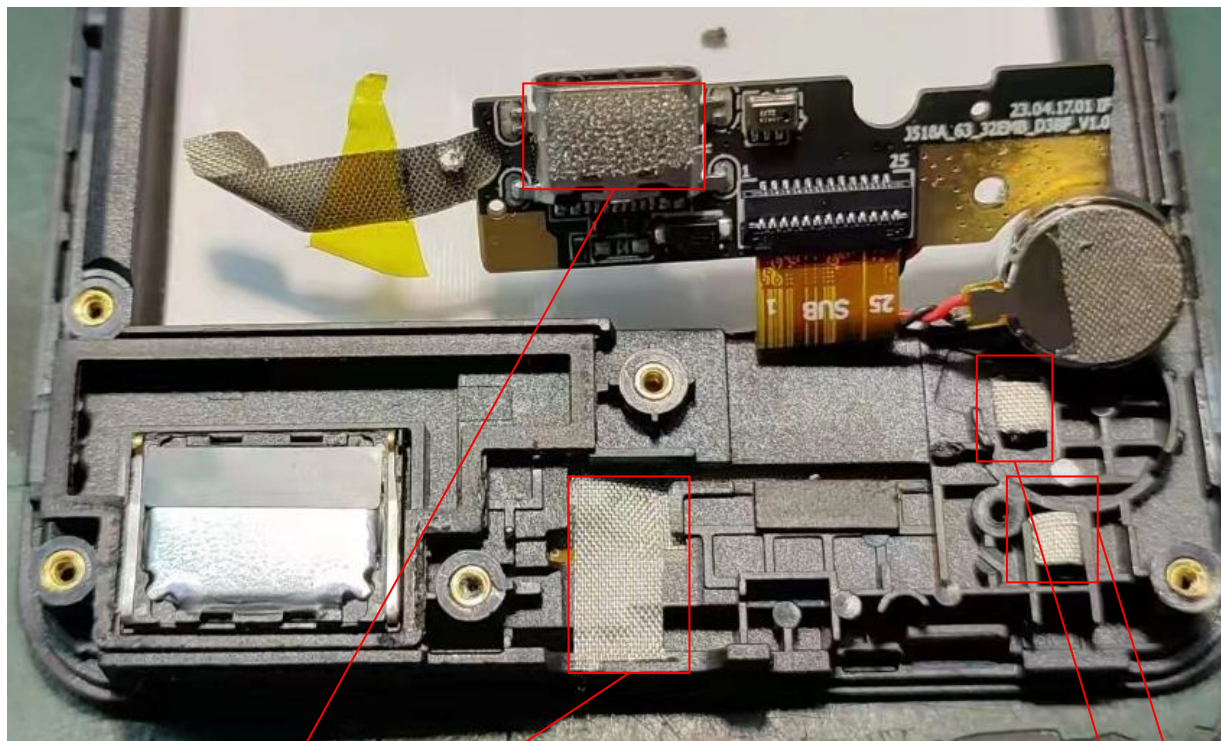
H5508-39B1

开关匹配逻辑	开关路径	匹配值	2G频率	3G频率	4G频率
	RF1	0欧	2G=850/1800/1900	3G=B1/B2/B5	4G=B4/B5/B7/B38
	RF2	8.2nH			4G=B28AB
	RF3				
	RF4	20pF	2G=900		

4. Environmental Disposal

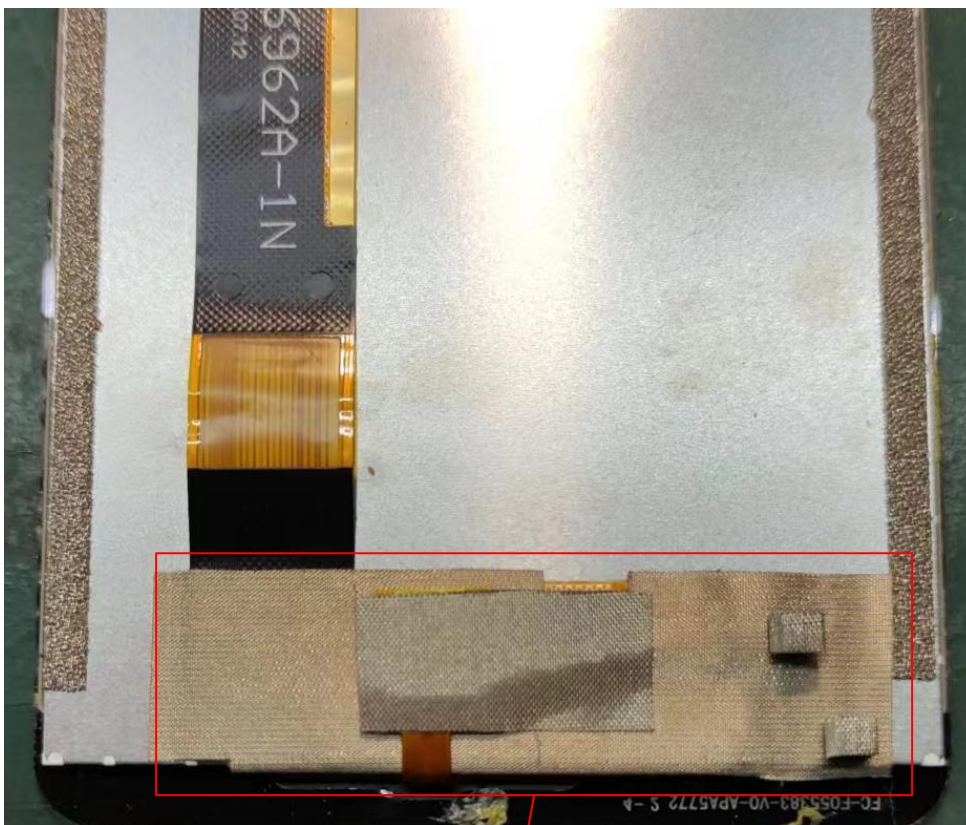


用导电布将喇叭和USB接通，
用高温胶将周围其他元器件盖住，避免短路

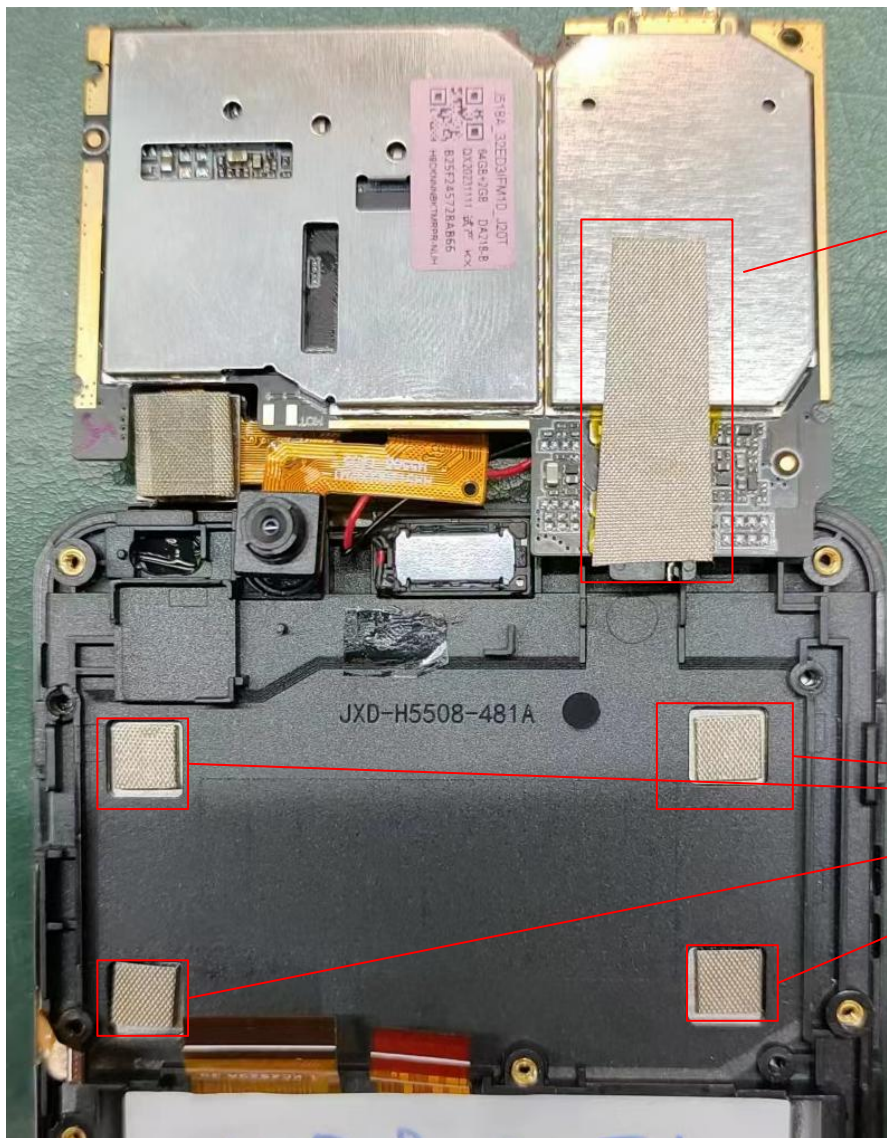


USB接口下方用导电海绵将与屏框接通

贴上导电泡棉将喇叭和小板接地



屏排线用导电布包裹，露出来的排线
在贴一层导电布



在屏蔽罩上贴一条导电布延伸出来盖在耳机孔上(注意用高温胶绝缘, 避免短路)

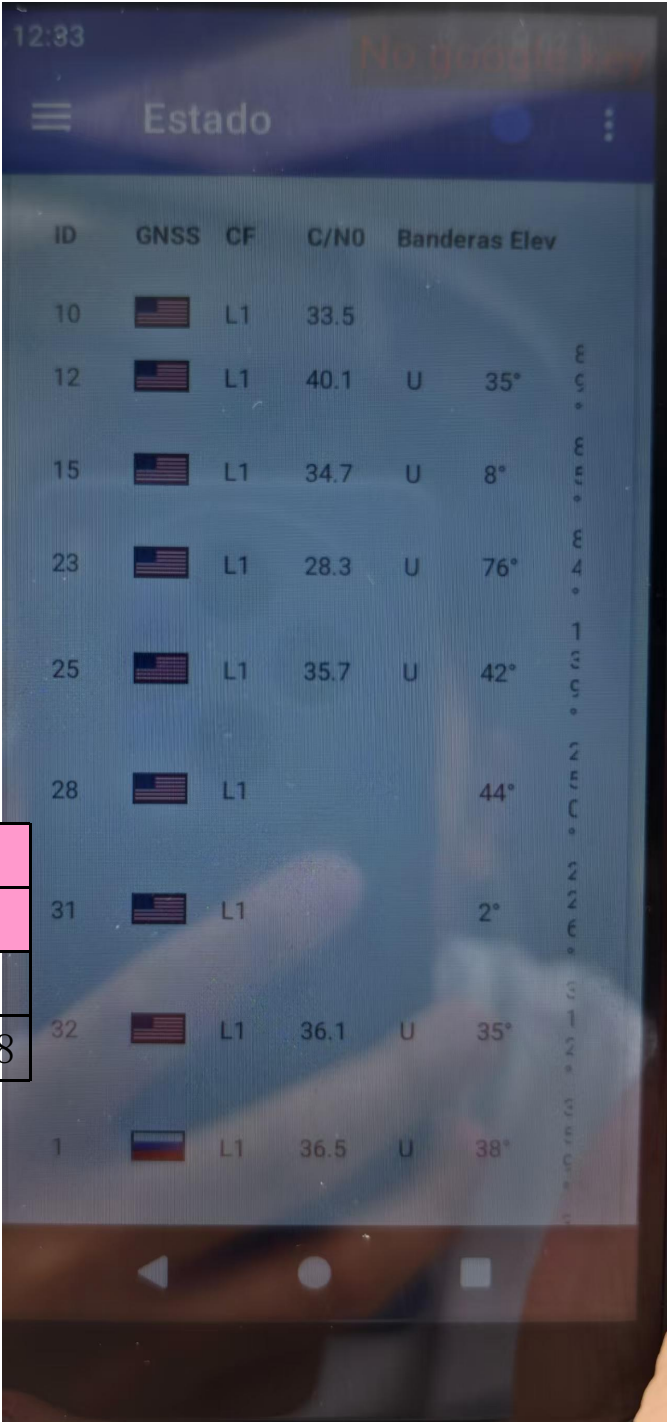
贴上导电泡棉将主板接地

5. Test Data

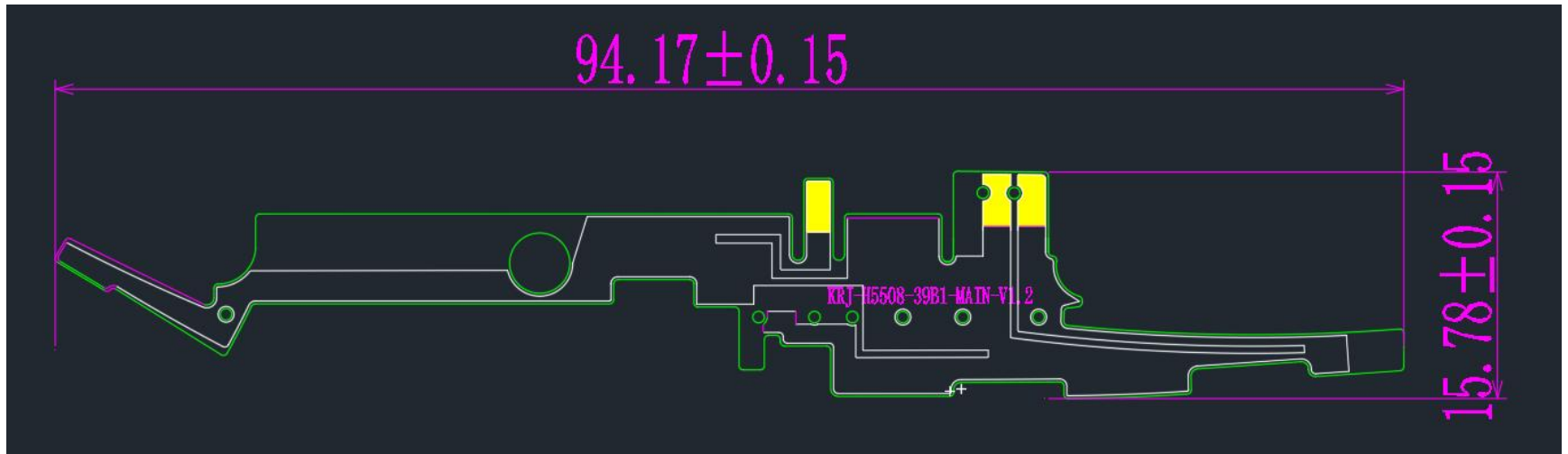
4G	LTE4		LTE5		LTE7		LTE38	
	20000	20350	20450	20600	20800	21400	37850	38150
TRP	18.61	18.26	15.73	16.58	18.27	17.5	16.43	16.6
TIS		-90.36		-89.5		-88.75		-88.46
4G	LTE28							
	27260	27410	27460	27610				
TRP	15.36	16.27	16.82	17.26				
TIS		-85.04		-85.24				
3G	WCDMA_I		WCDMA_II		WCDMA_V			
	9612	9888	9262	9538	4132	4233		
TRP	18.82	18.13	18.02	17.76	16.79	17.55		
TIS		-102.96		-103.28		-100.67		
2G	GSM850		EGSM		DCS		PCS	
	128	251	1	124	512	885	512	810
TRP	25.01	26.1	26.62	26.92	24.55	24	25.53	24.26
TIS		-102.34		-101.88		-102.79		-102.15

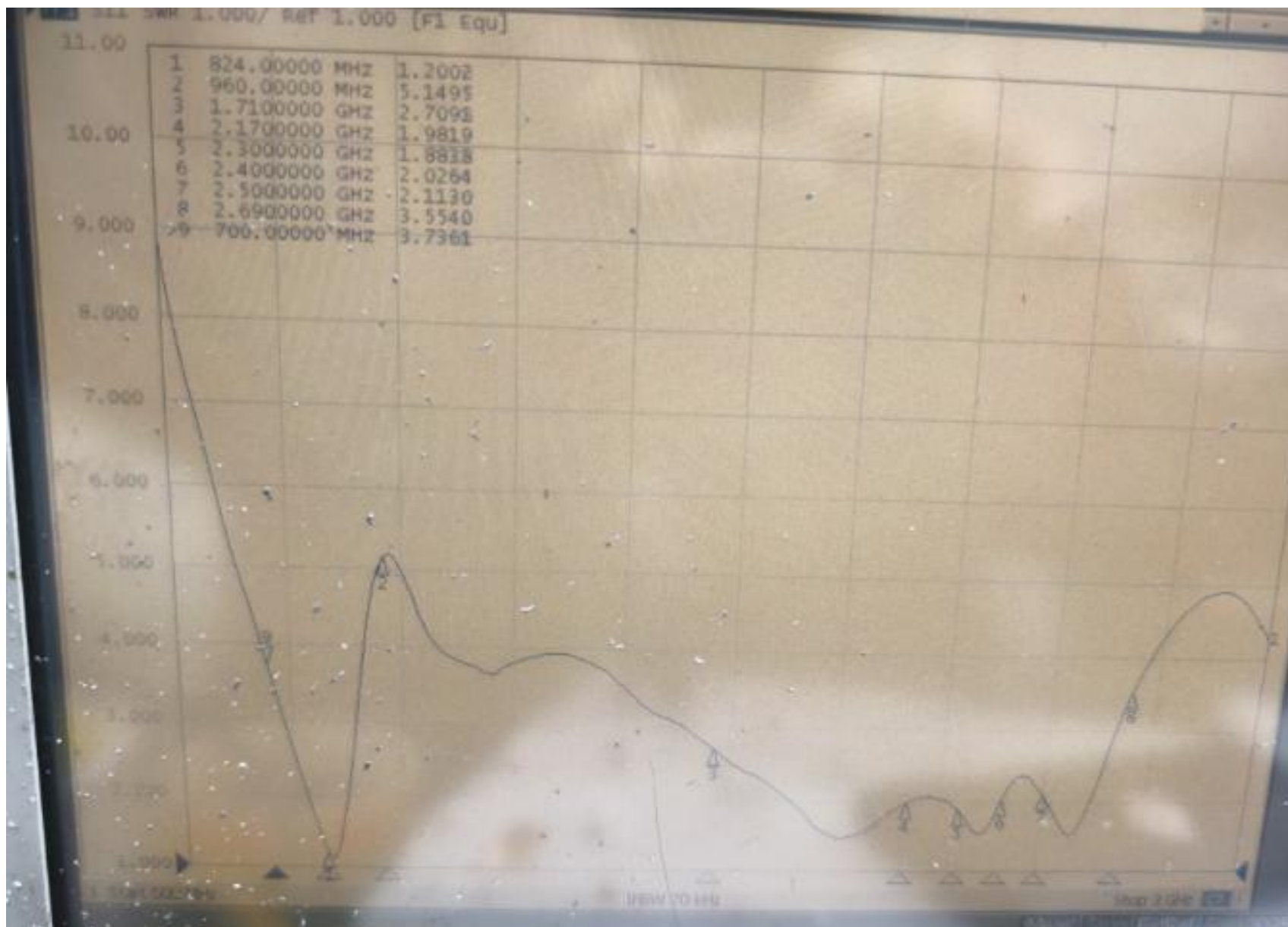
GPS实测报告	
位 置	测试结果
室外	冷启动70秒定位, 最大CN值44, 可使用星数5颗以上.

	Wifi 2G			Wifi 5G	
	1	7	13	36	165
TRP	11.54	12.56	12.85	7.41	12.14
TIS	-79.39	-81.47	-81.62	-68.22	--70.48

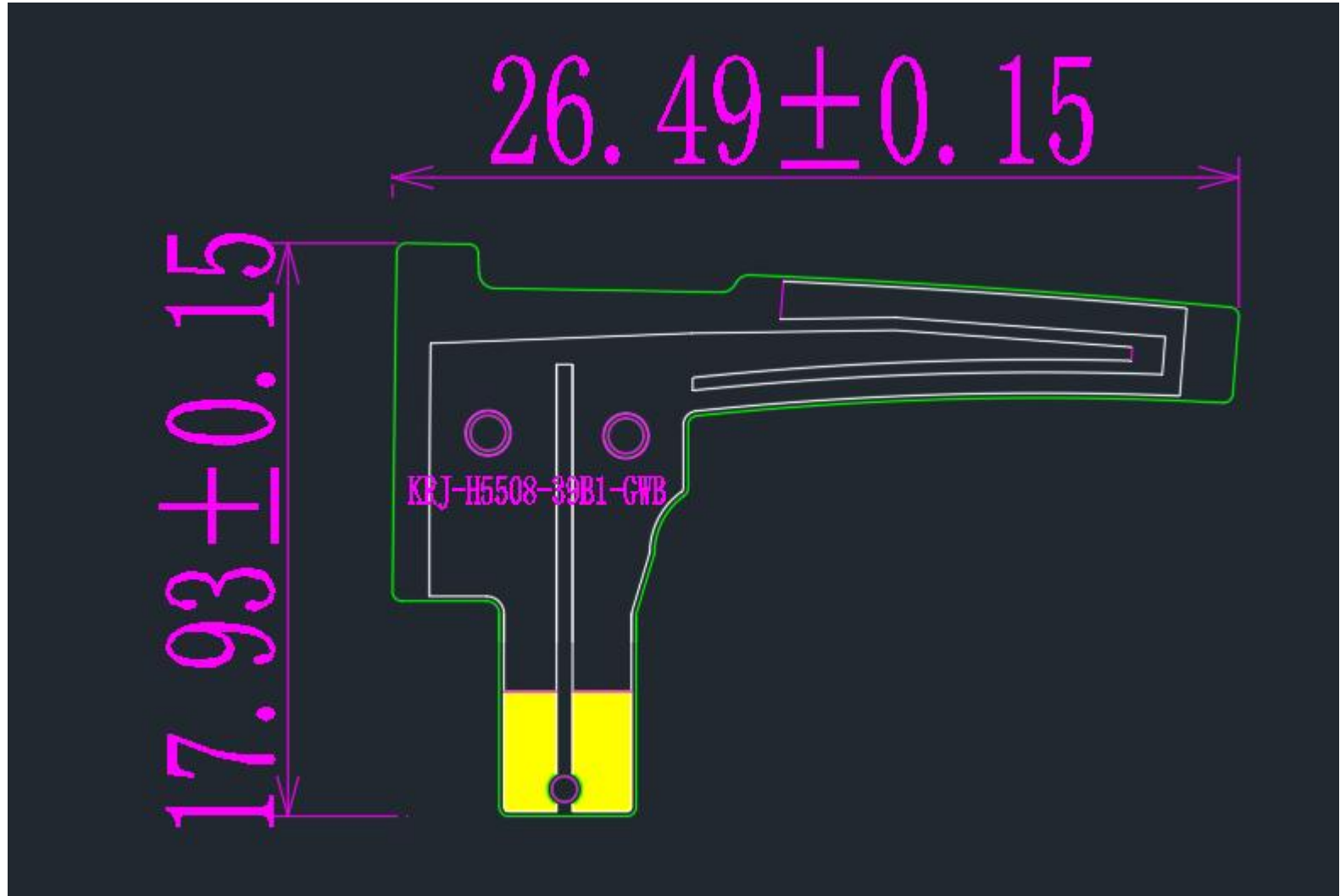


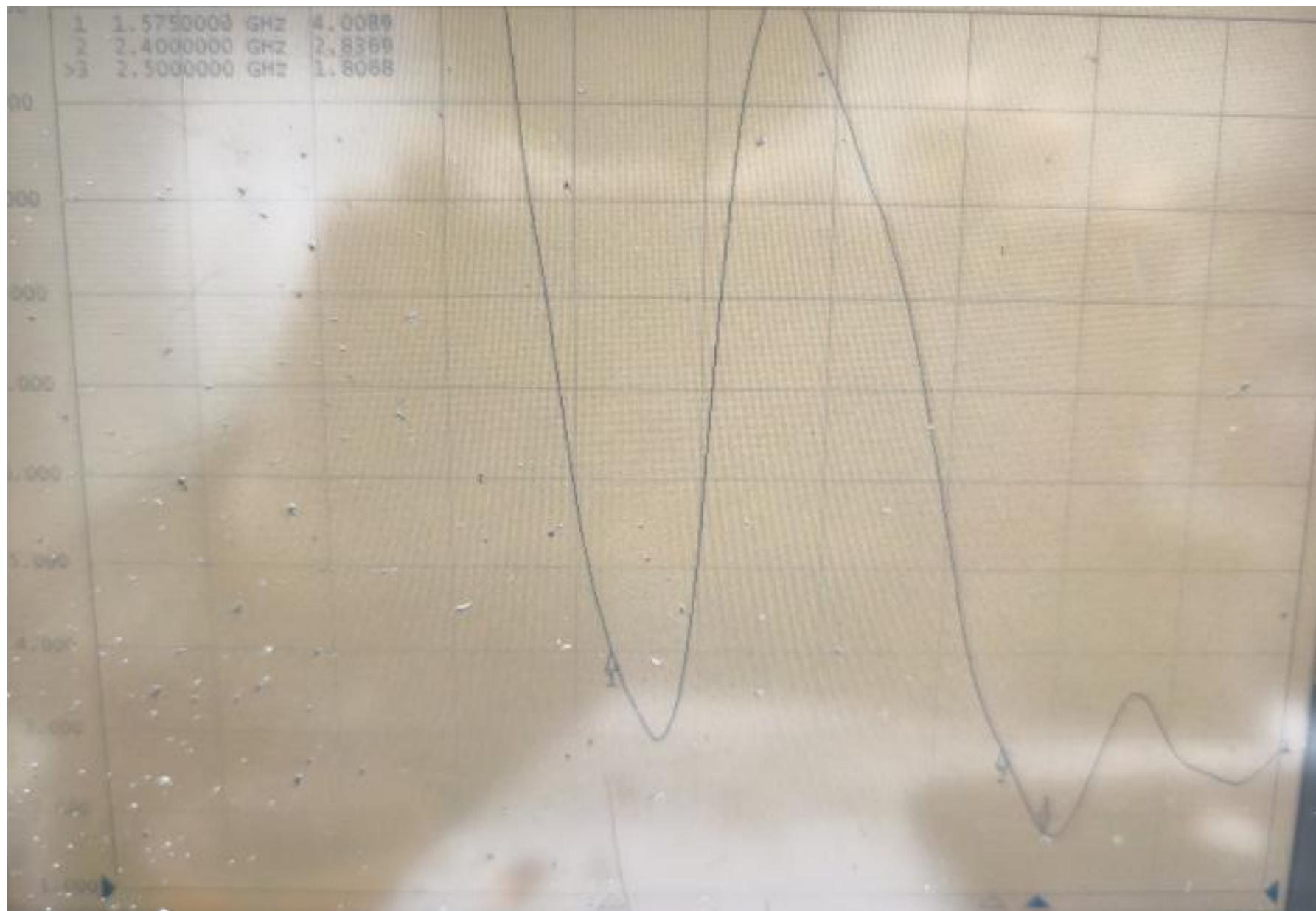
主天线



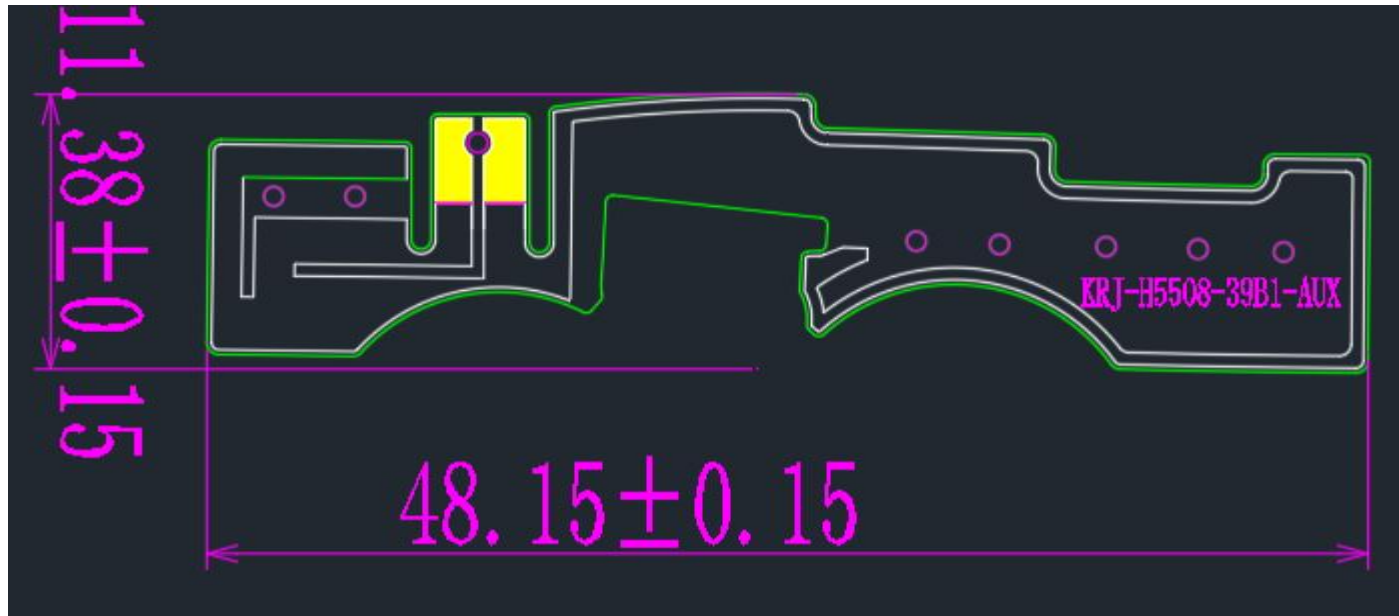


GWB天线



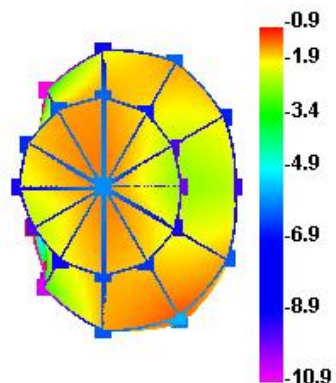


分集天线

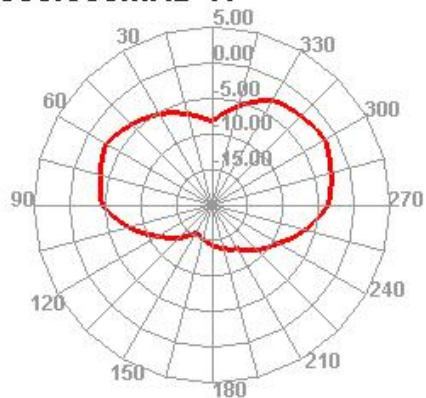


H5508-39B1 antenna info.			
RF antenna	Band	Frequency (MHZ)	Max Gain (Dbi)
	GSM850	824-894	-0.3
	EGSM900	880-960	-0.3
	DCS1800	1710-1880	0.5
	PCS1900	1850-1990	0.5
	WCDMA-B1	1920-2170	0.5
	WCDMA-B2	1850-1990	0.5
	WCDMA-B5	824-894	-0.3
	LTE-B2	1850-1990	0.5
	LTE-B4	1710-2155	0.5
	LTE-B5	824-894	-0.3
	LTE-B7	2500-2690	0.5
	LTE-B28	703-803	-0.8
	LTE-B38	703-803	-0.5
GPS/wifi/BT	wifi2.4/BT	2400-2500MHZ	0.5
	wifi5.8	5150-5850MHZ	0.5
	GPS	1575MHZ	0.3

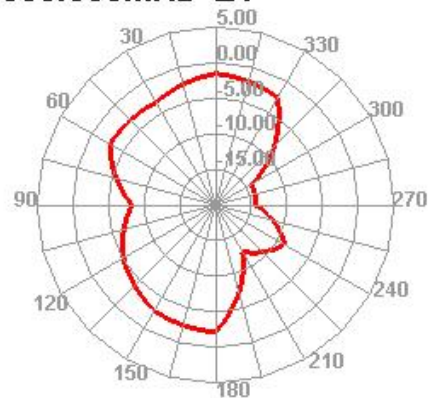
800.000MHz



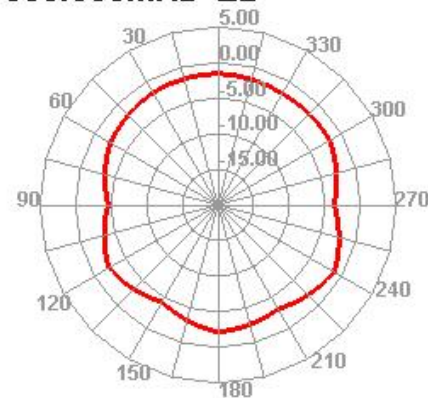
800.000MHz H



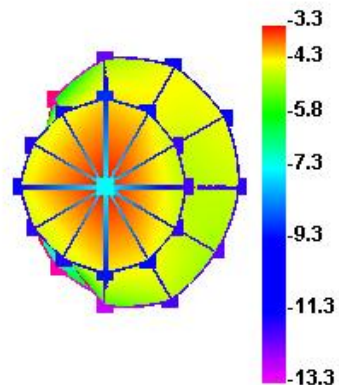
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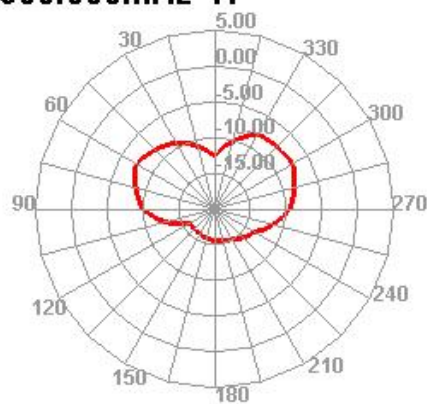
800.000MHz E2



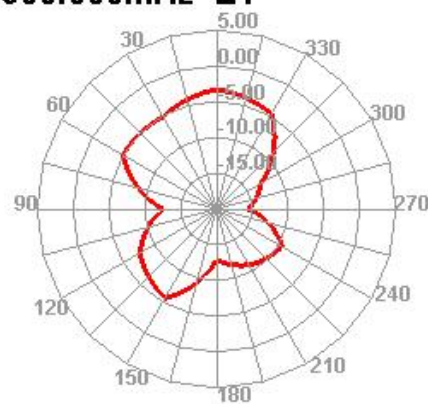
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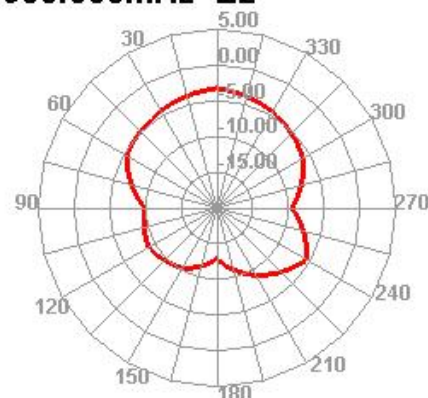
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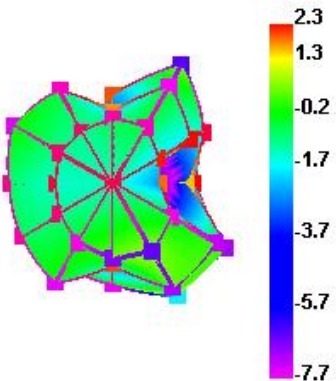
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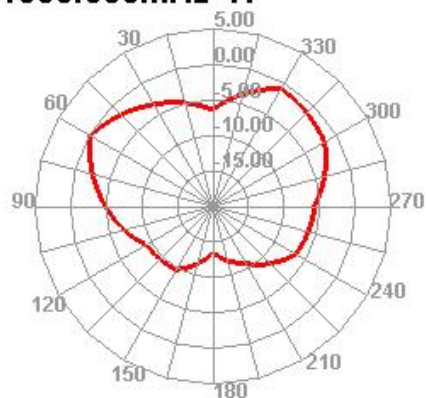
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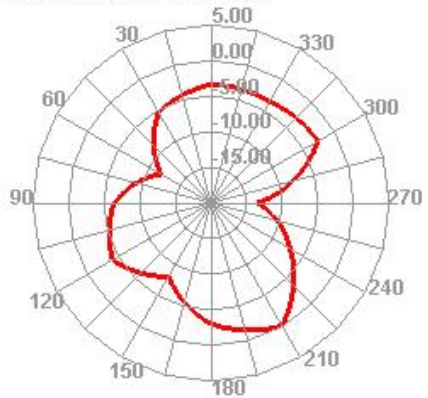
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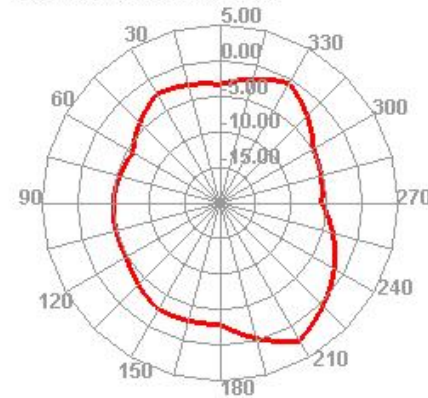
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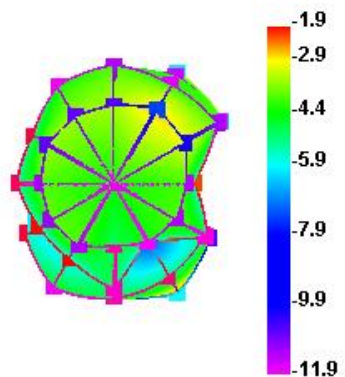
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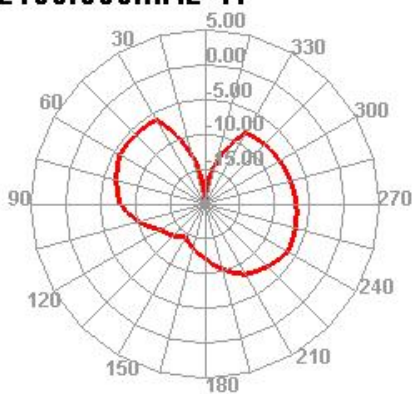
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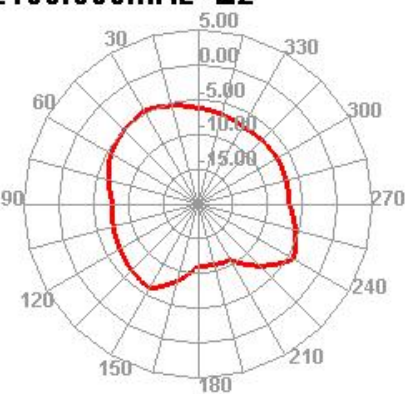
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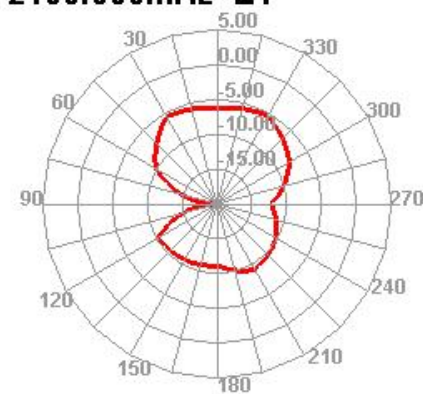
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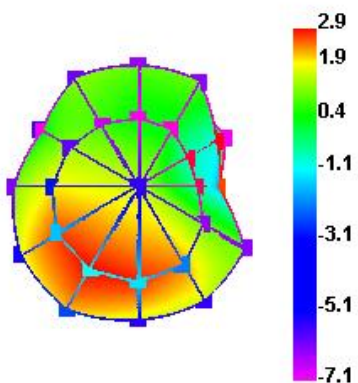
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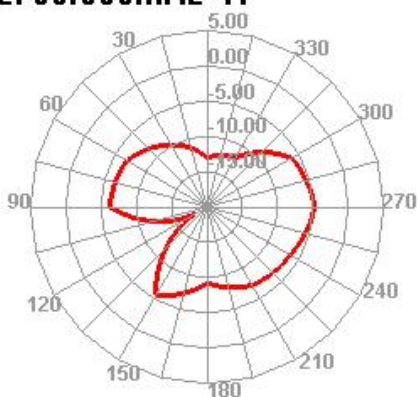
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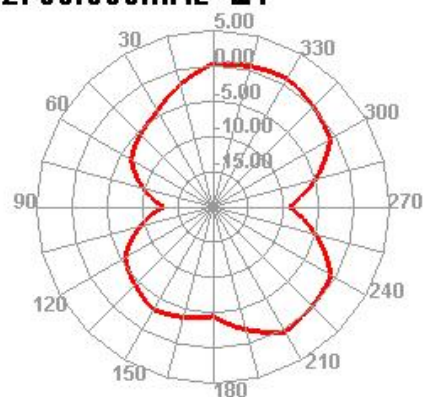
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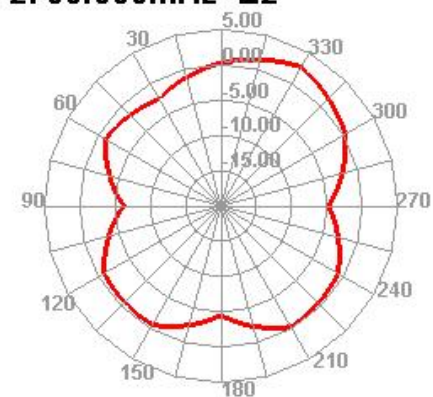
2700.000MHz H



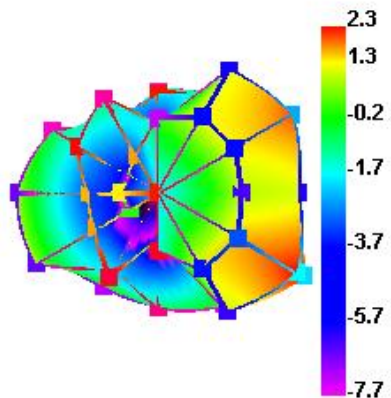
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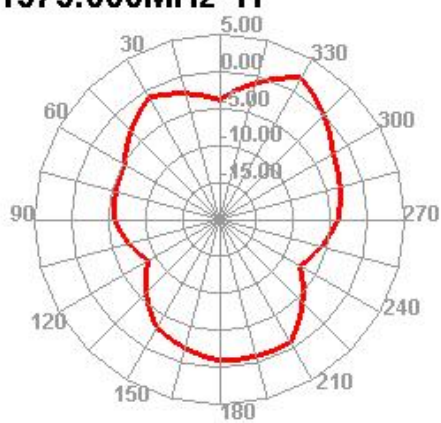
2700.000MHz E2



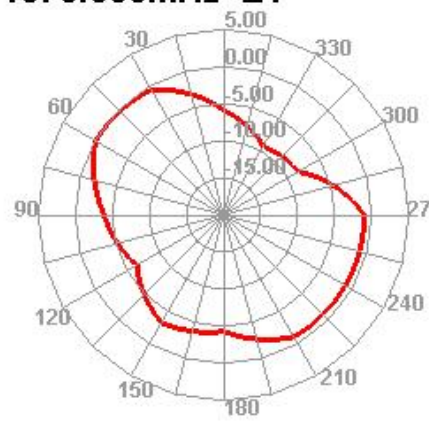
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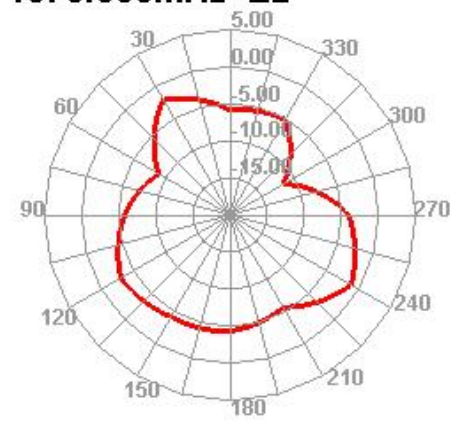
1575.000MHz H



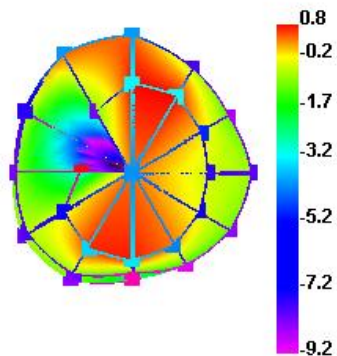
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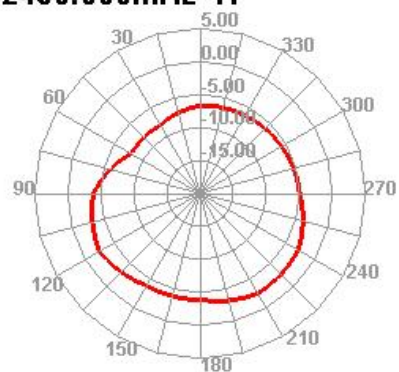
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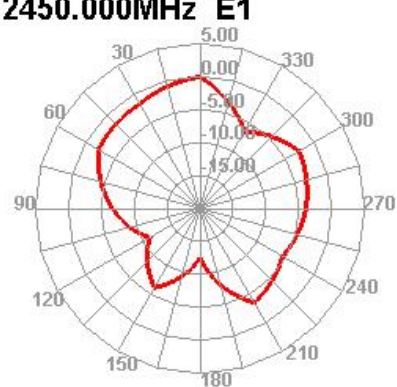
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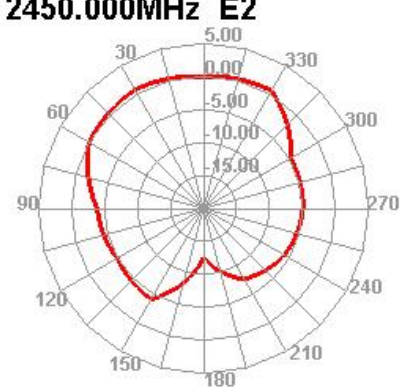
2450.000MHz H



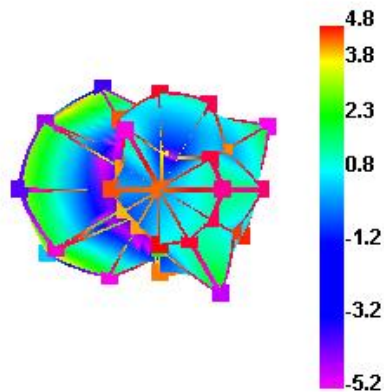
2450.000MHz E1



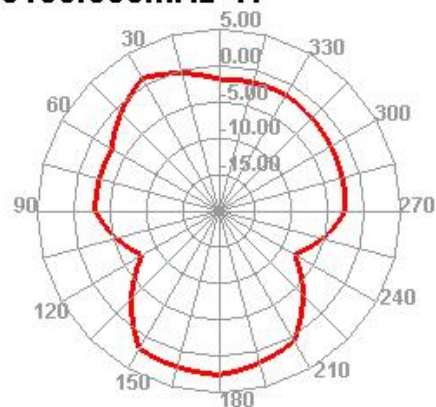
2450.000MHz E2



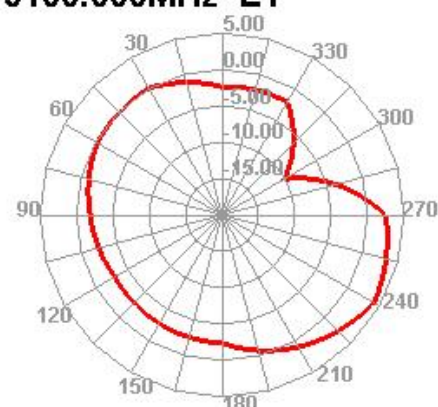
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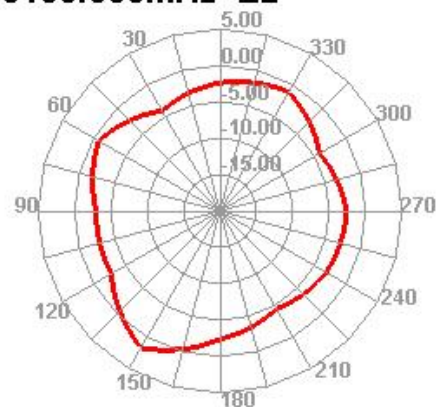
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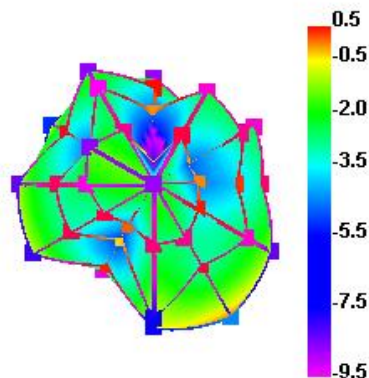
5100.000MHz E1



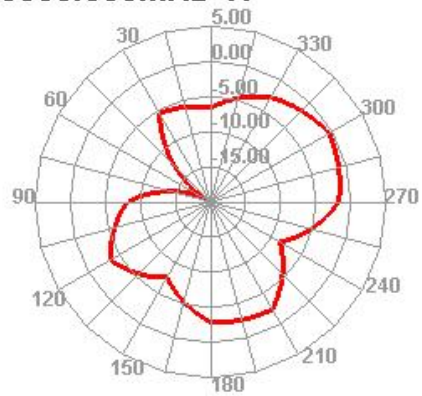
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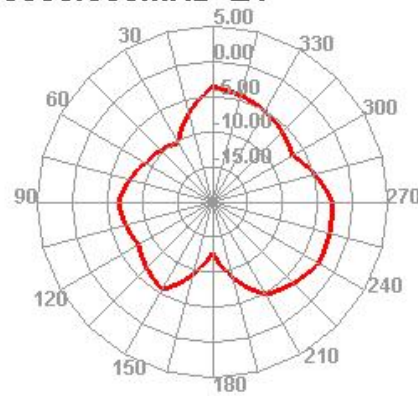
5850.000MHz



5850.000MHz H



5850.000MHz E1



5850.000MHz E2

