

Shenzhen Qixin Tongda Technology Co., Ltd.

Antenna test Data

Client Name: OUQI

ITEM: S123

GSM: B2/B3/B5/B8

WCDMA: B1/B2/B4/B5/B8/B19

TDD:B34/B38/B39/B40/B41F

**FDD:B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B18/B19/B20/B25/B26/B28AB/
B66/B71**

5G:n1/n2/n3/n5/n7/n8/n20/n28/n38/n40/n41/n66/n71/n77/n78

Project: Mr Xiong (187 1893 6792)

Date: 2024-03-28

1. Test Project

	Test Project	Equipment
1. S Parameter	1. Return Loss(RL) 2. VSWR	Network Analyzer: Agilent 5071B
2. RF Test (2/3/4/5G)	1. power 2. level 3. TRP/TIS	Comprehensive Test: SP9500/CMW500/8960 Test Environment: Anechoic Chamber

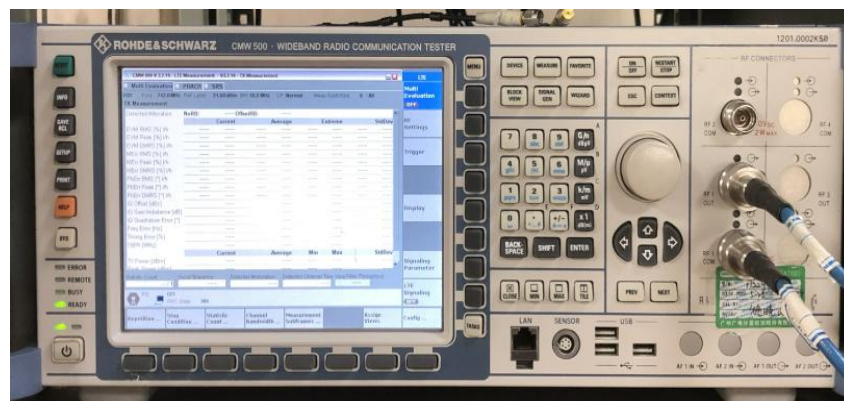
2.Test Equipment



Agilent 5071B (S Parameter (RL/VSWR) Test Equipment)



Agilent 8960 (2G/3GTest Equipment)

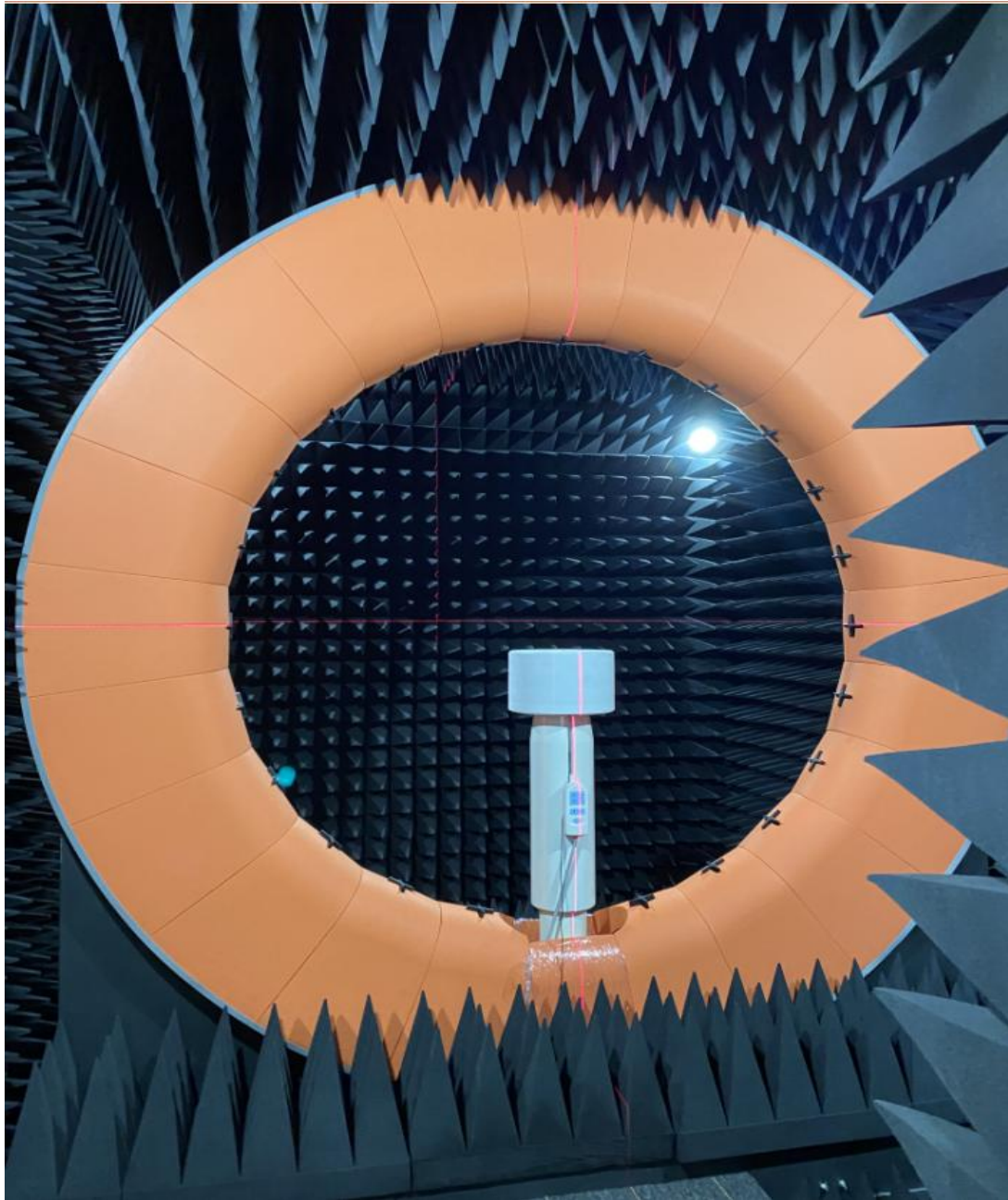


CMW 500 (2G/3G/4GTest Equipment)



SP9500 (5GTest Equipment)

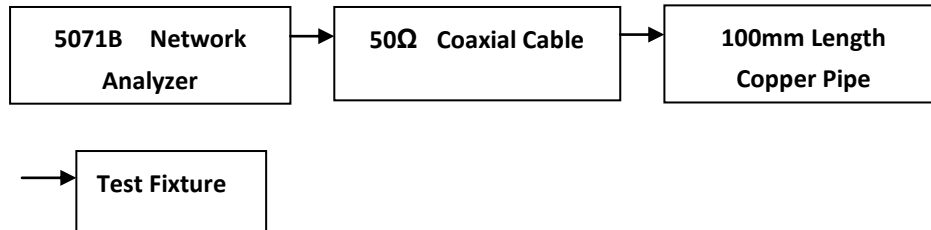
3. TestEnvironment



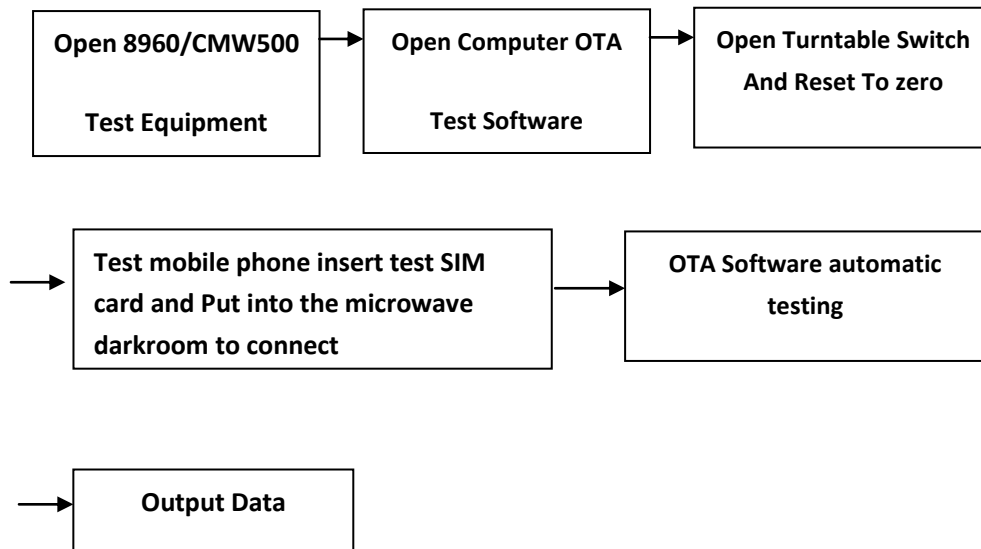
Microwave Anechoic Chamber

4.Test Steps

Passive VSWR/RL Test Steps:



Active TRP/TIS Test Steps:

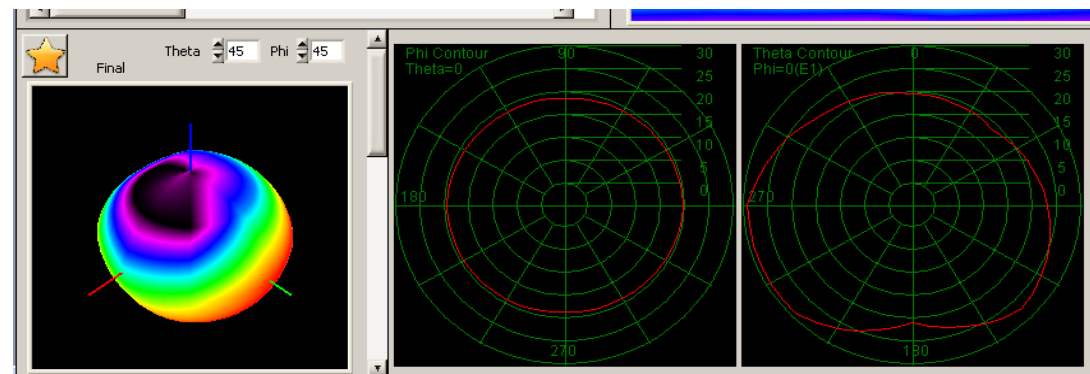


5. Antenna Gain

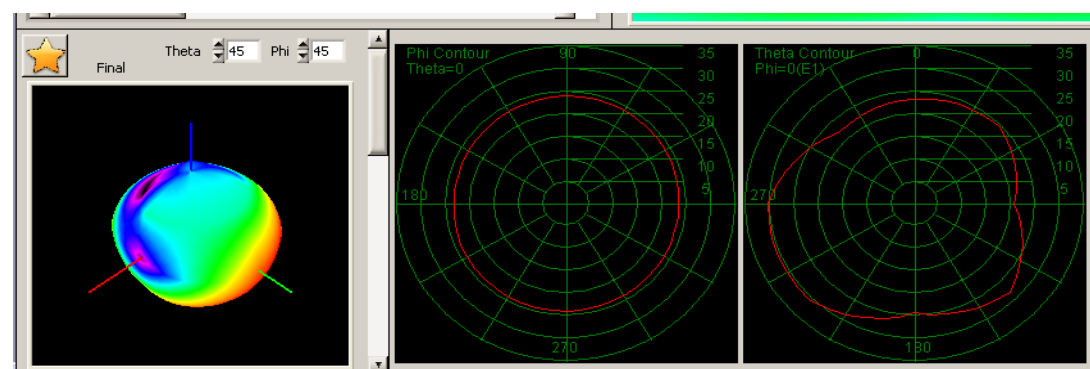
Band	Max Gain	Band	Max Gain
GSM850	-0.38	NR-B1	-0.28
GSM900	-0.51	NR-B2	-0.32
DCS1800	-0.14	NR-B3	-0.14
PCS1900	-0.33	NR-B5	-0.38
WCDMA1	-0.28	NR-B7	0.27
WCDMA2	-0.32	NR-B8	-0.51
WCDMA4	-0.45	NR-B12	-0.92
WCDMA5	-0.38	NR-B20	-0.38
WCDMA8	-0.51	NR-B28	-0.90
WCDMA19	-0.38	NR-B38	0.27
LTE-B1	-0.28	NR-B40	0.21
LTE-B2	-0.32	NR-B41	0.27
LTE-B3	-0.14	NR-B66	-0.33
LTE-B4	-0.45	NR-B71	-1.37
LTE-B5	-0.38	NR-B77	0.48
LTE-B7	0.27	NR-B78	0.43
LTE-B8	-0.51		
LTE-B12	-0.92		
LTE-B13	-0.87		
LTE-B17	-0.91		
LTE-B18	-0.38		
LTE-B19	-0.38		
LTE-B20	-0.38		
LTE-B25	-0.33	Bluetooth	-0.17
LTE-B26	-0.38	WIFI-2.4G	-0.17
LTE-B28	-0.90	WIFI-5.1G	-0.32
LTE-B66	-0.33	WIFI-5.8G	-0.44
LTE-B71	-1.37	GPS	-0.23
LTE-B34	-0.28		
LTE-B38	0.27		
LTE-B39	-0.32		
LTE-B40	0.21		
LTE-B41	0.27		

6.3D Lobe Diagram

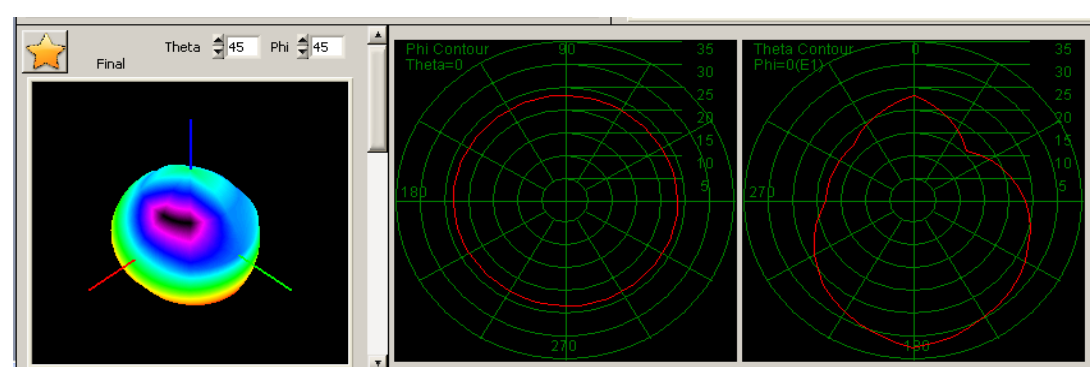
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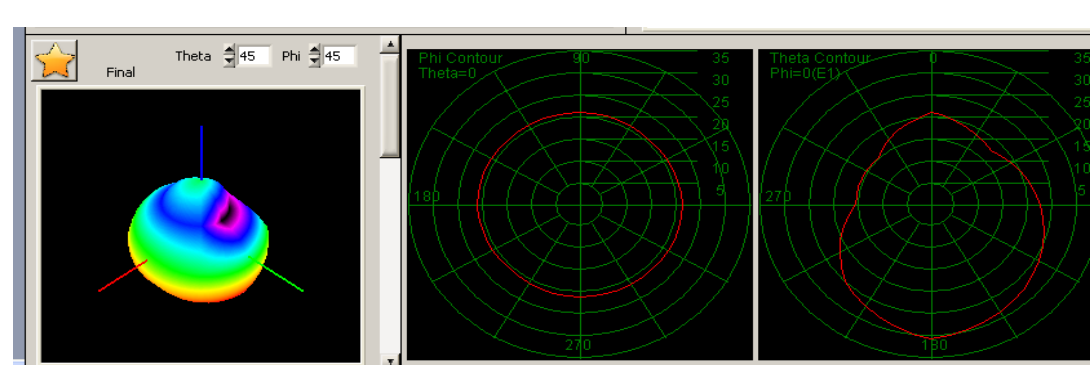
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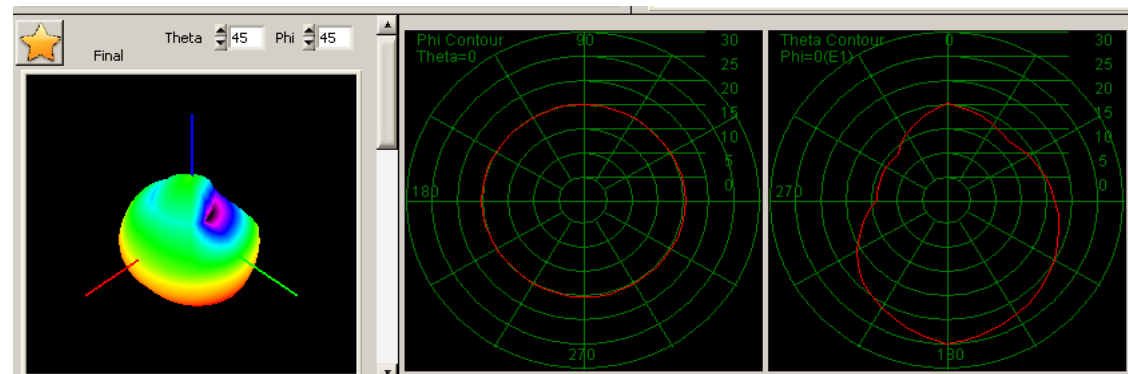
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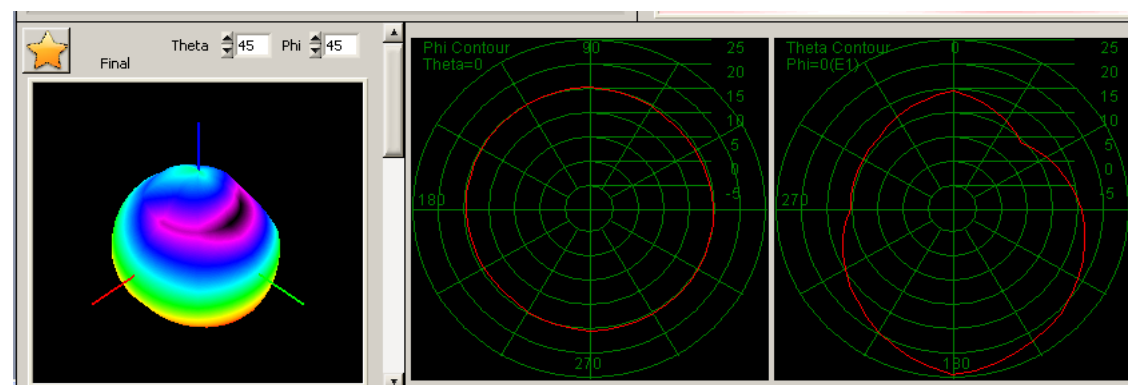
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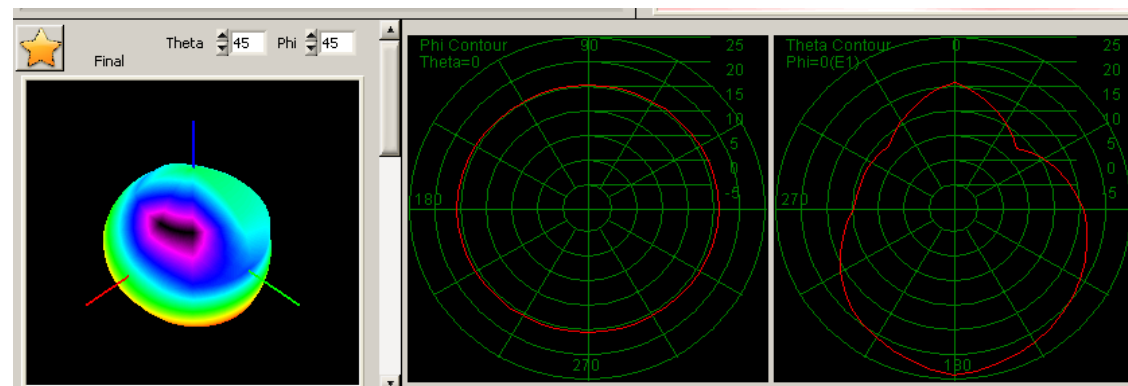
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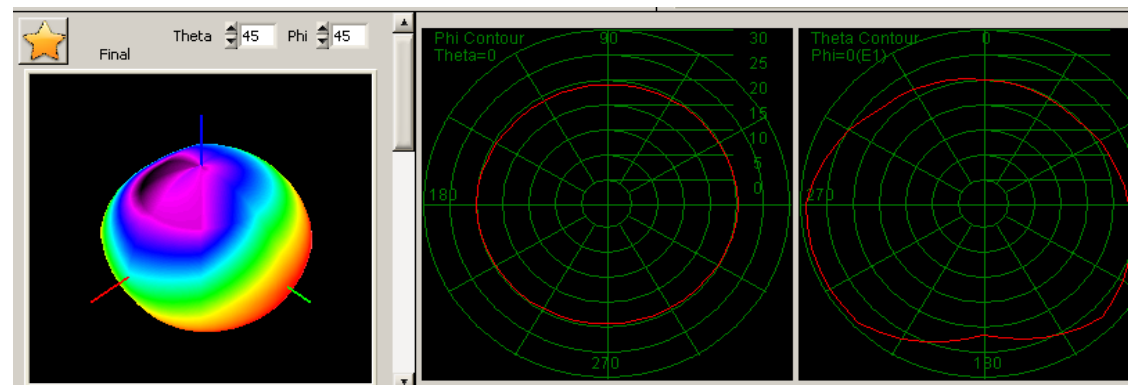
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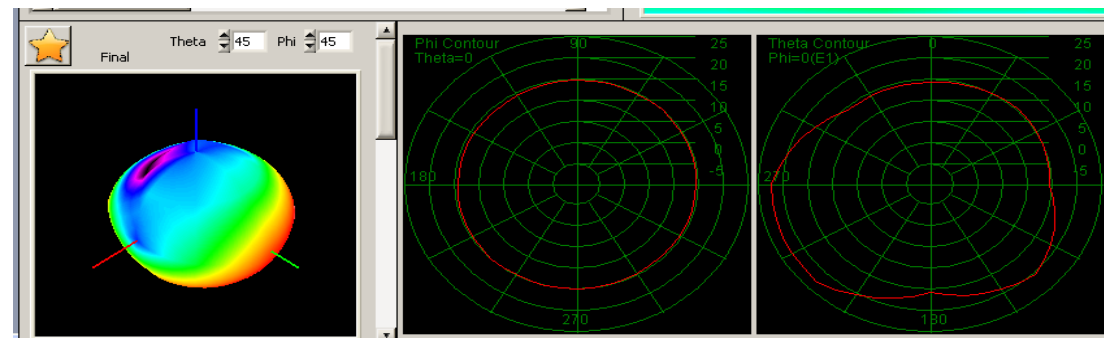
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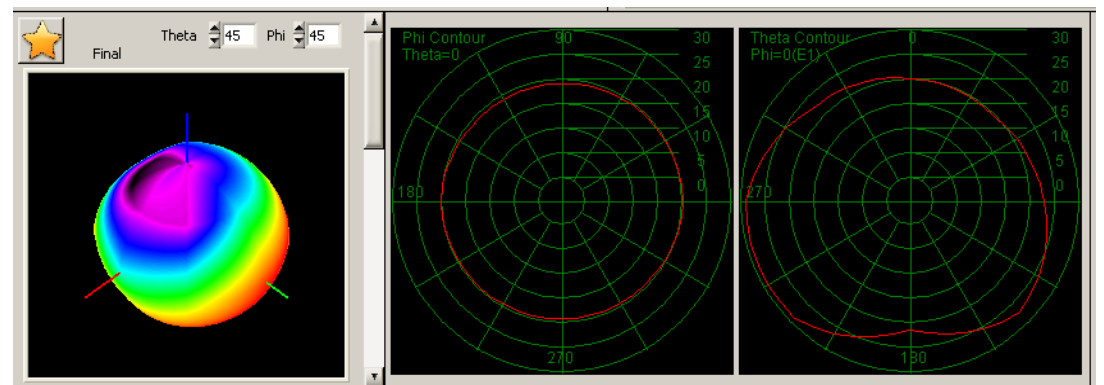
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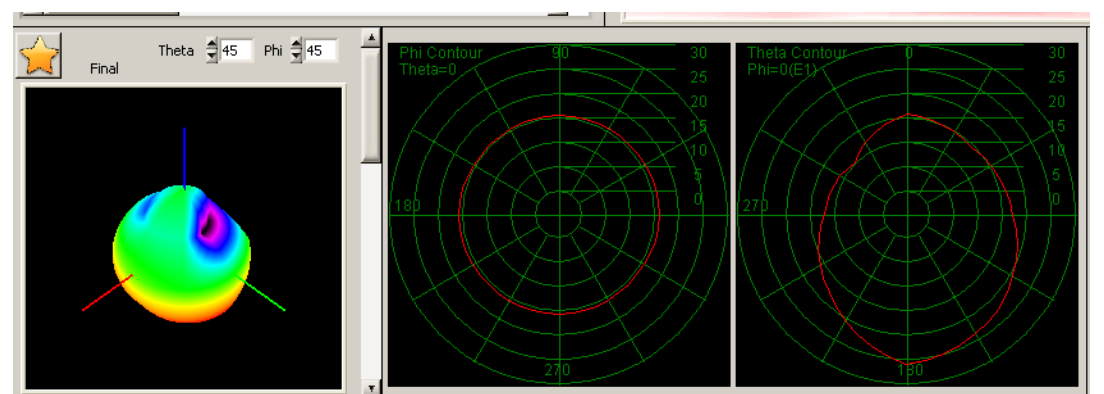
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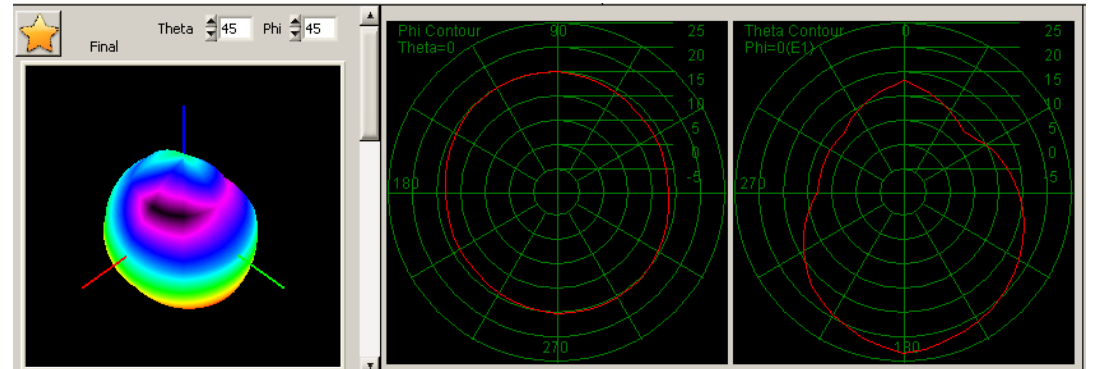
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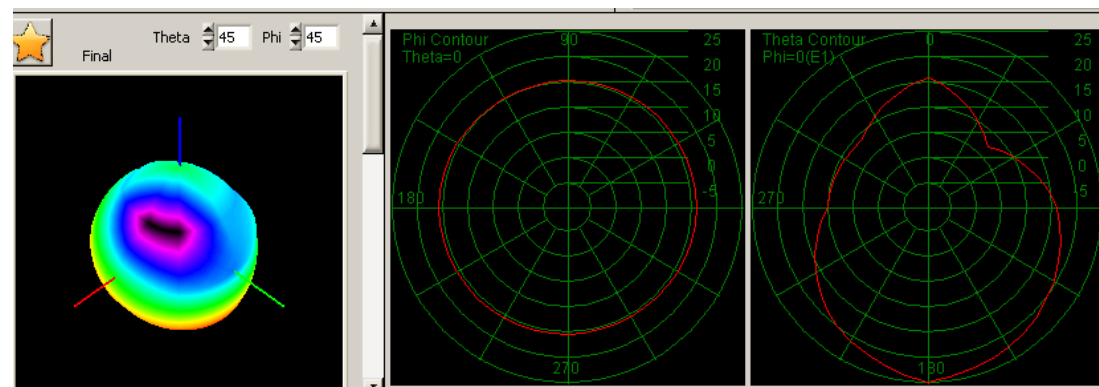
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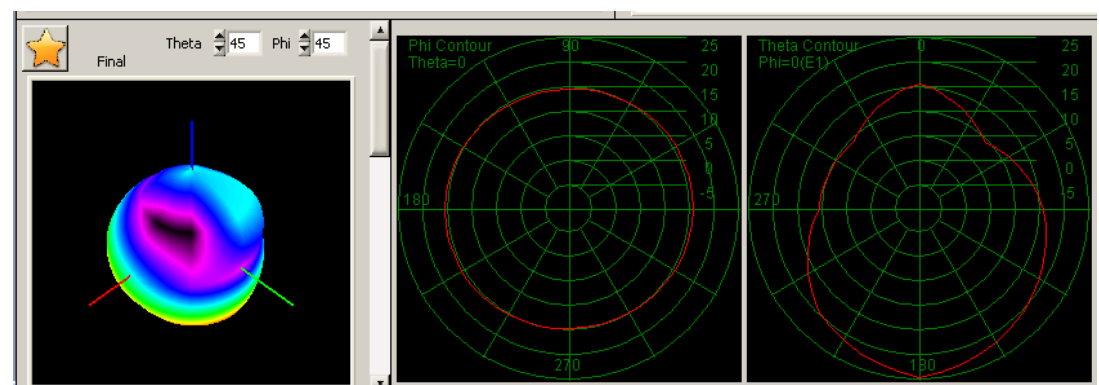
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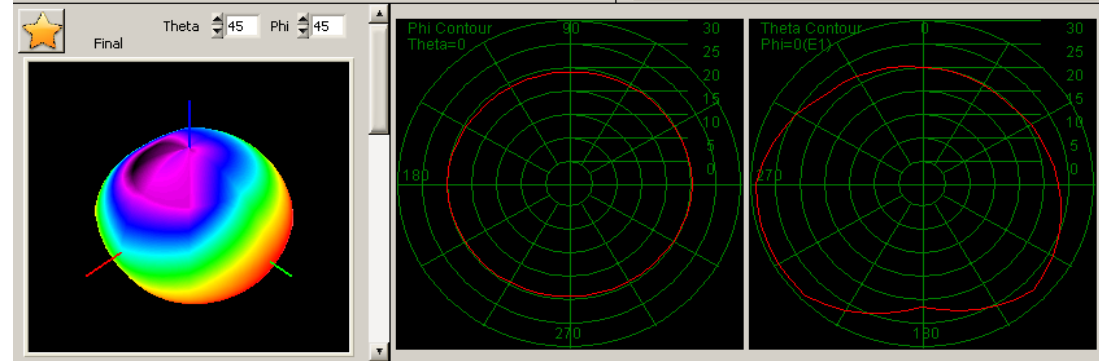
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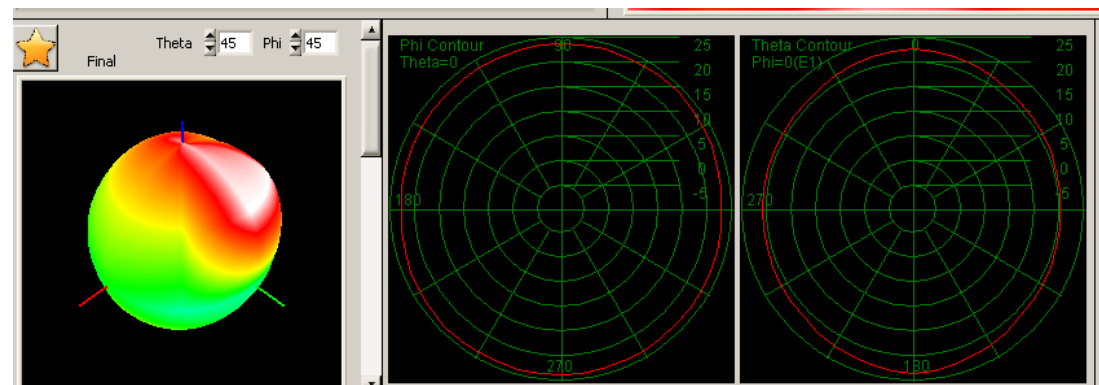
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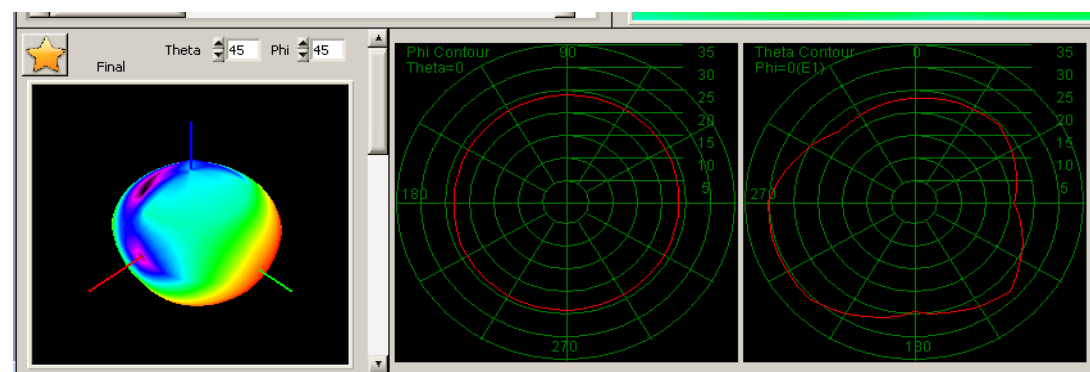
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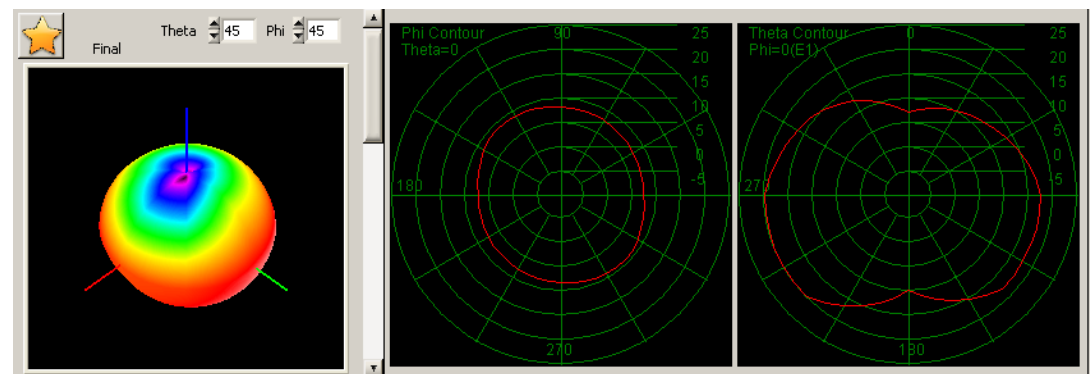
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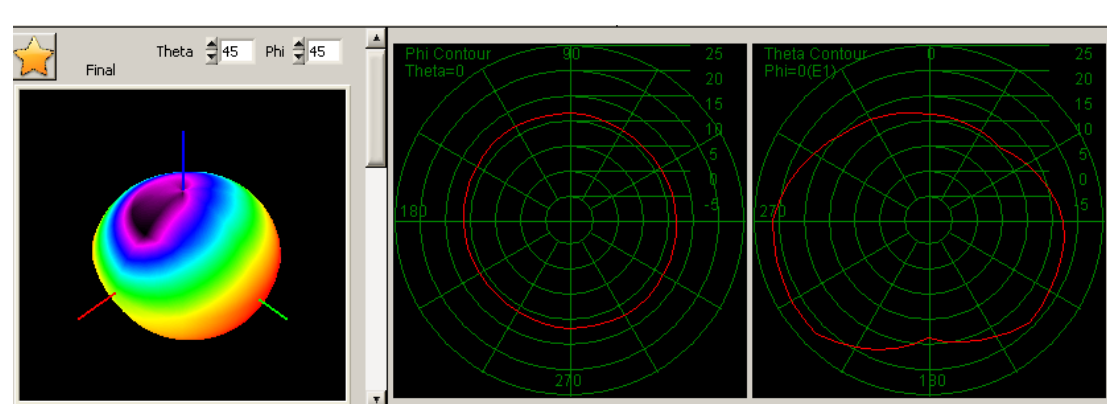
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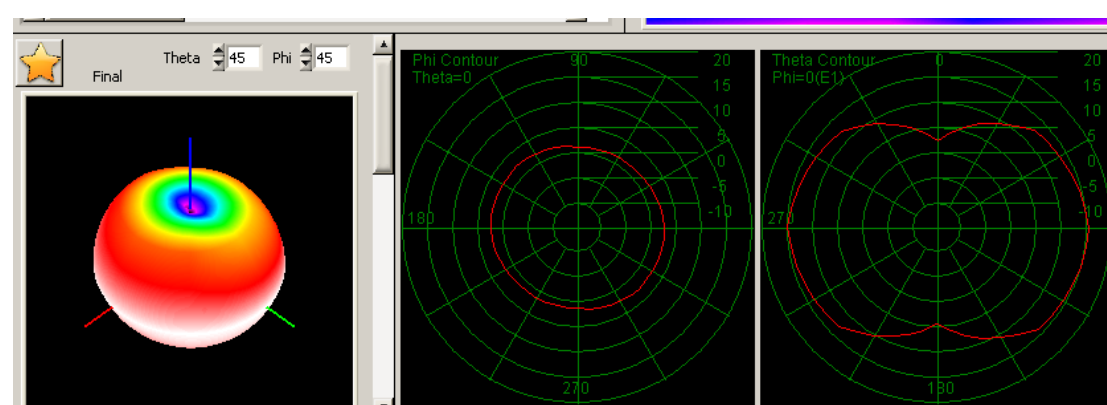
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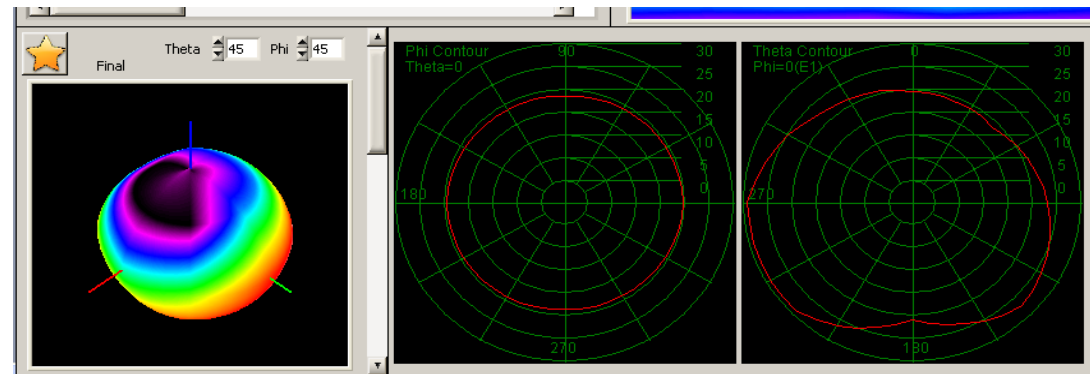
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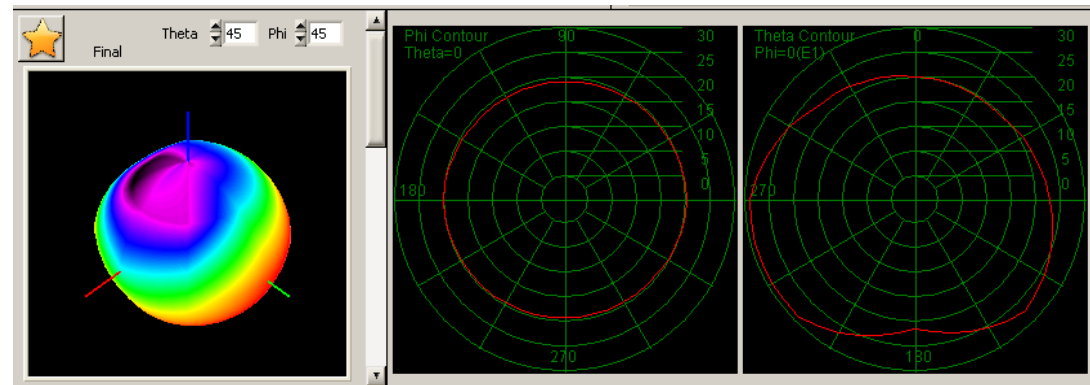
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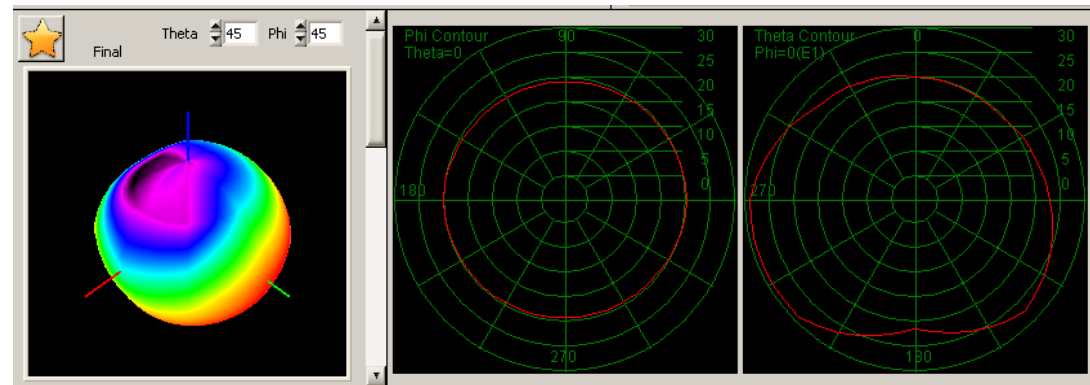
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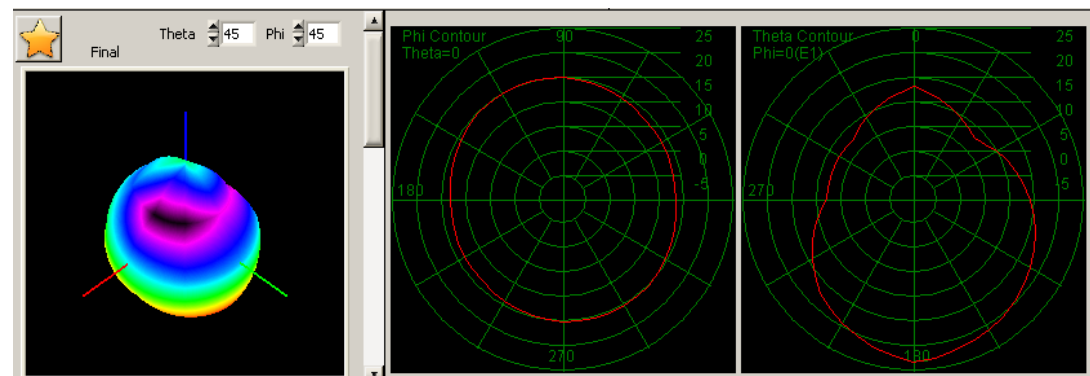
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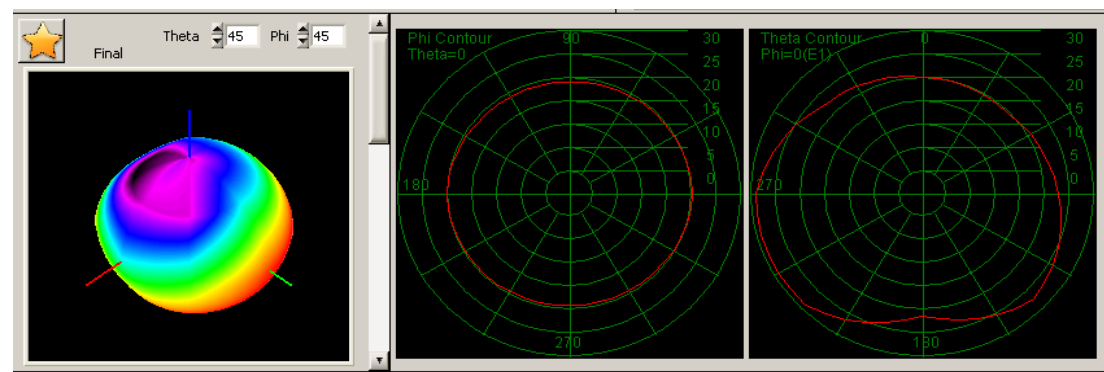
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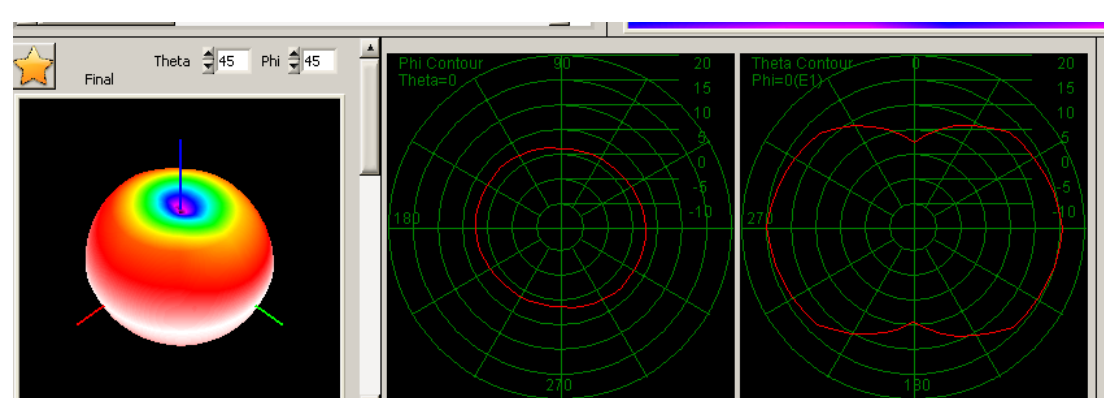
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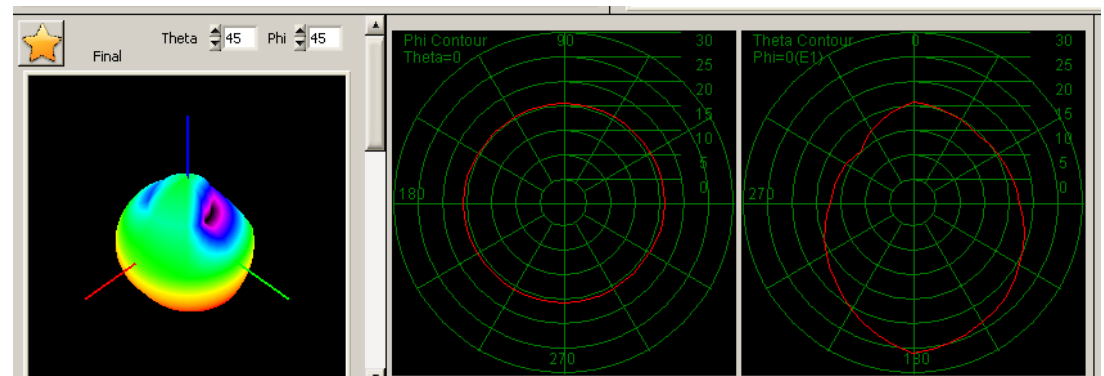
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FDD-B28



FDD-B66



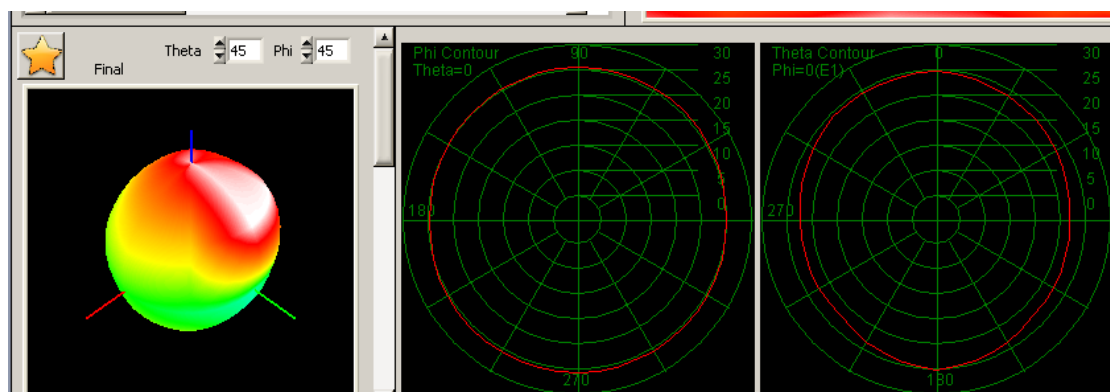
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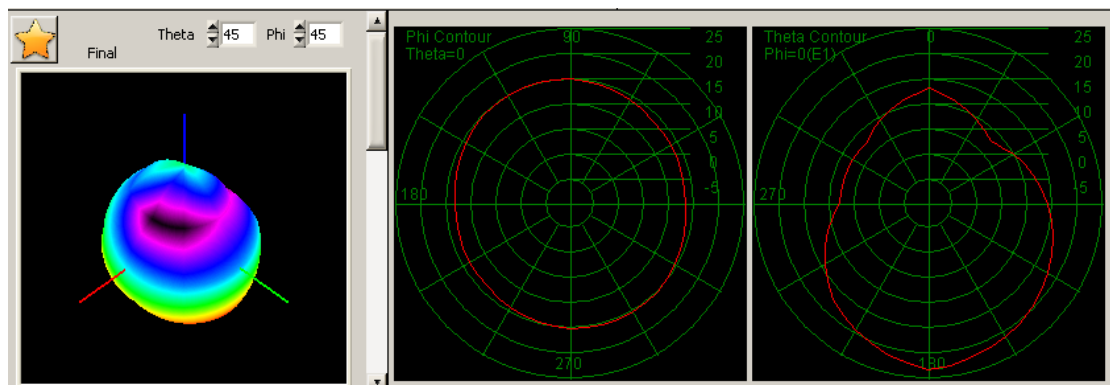
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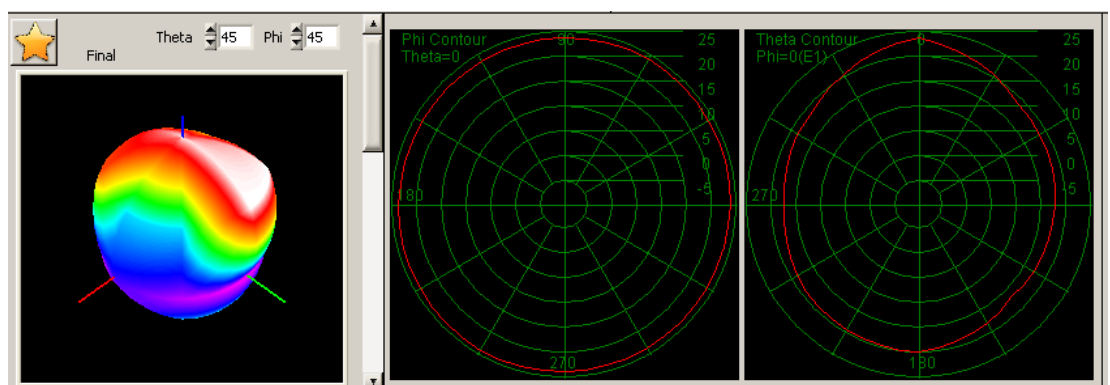
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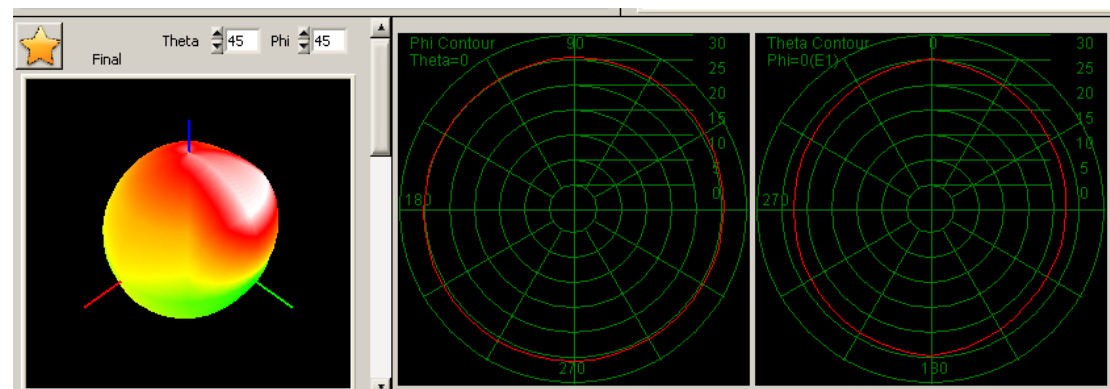
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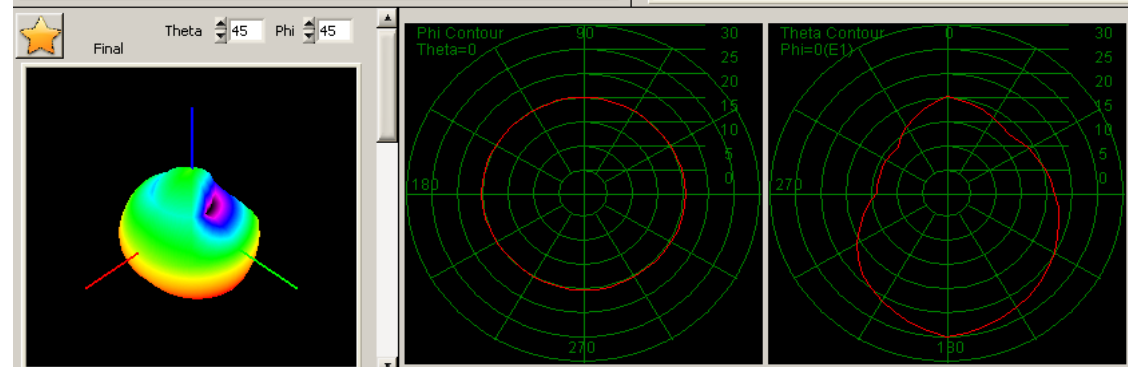
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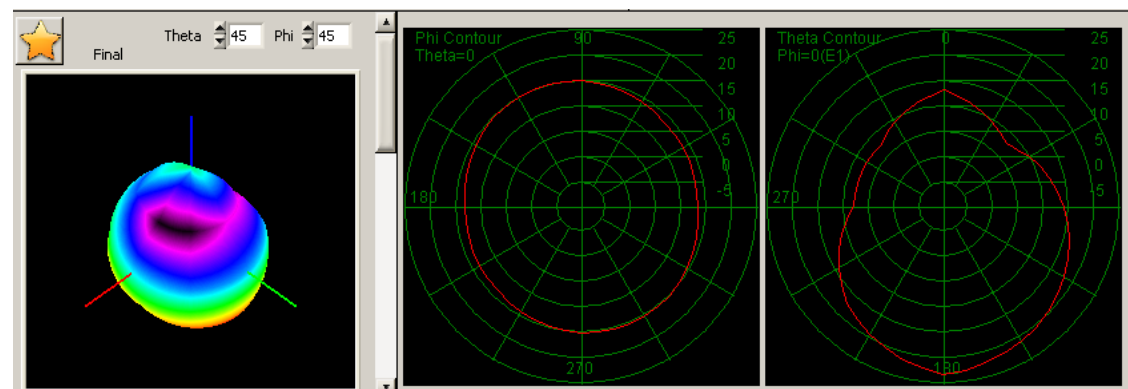
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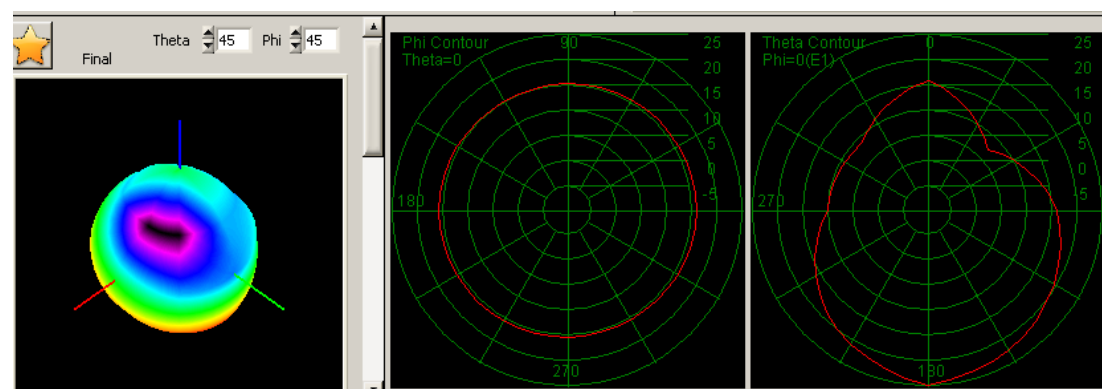
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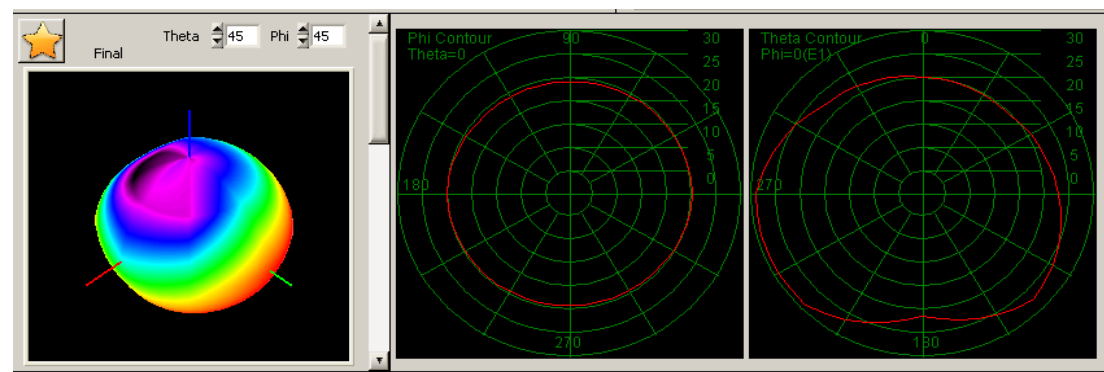
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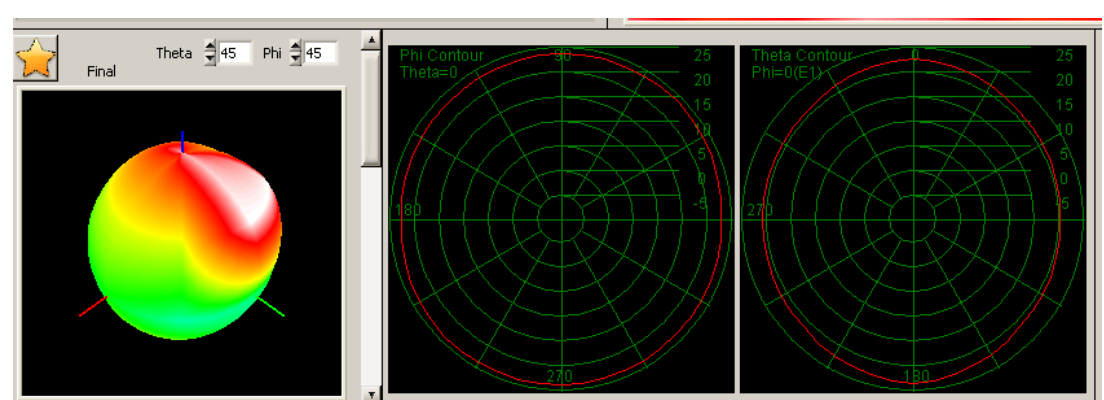
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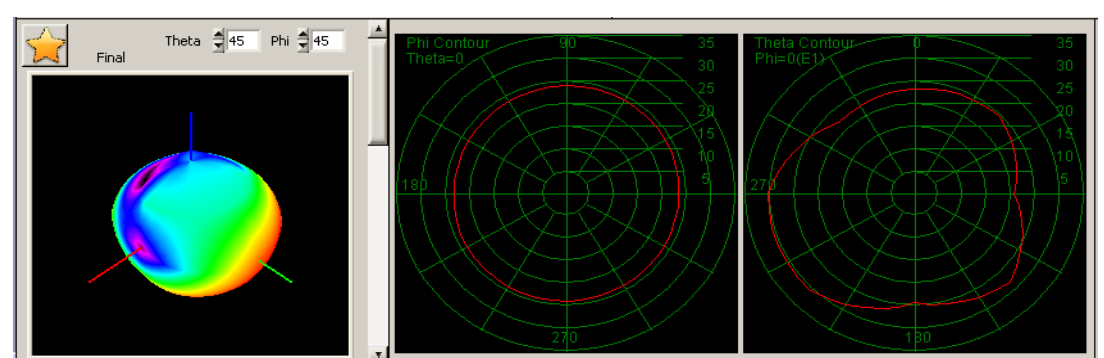
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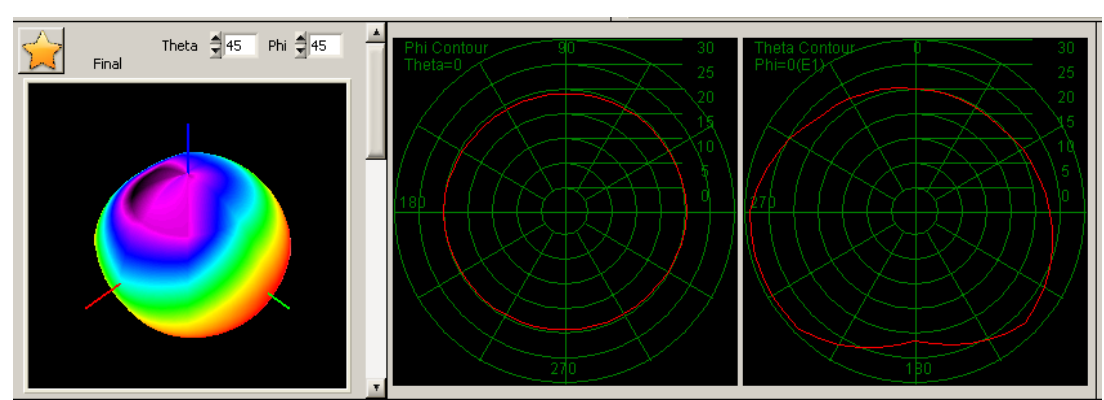
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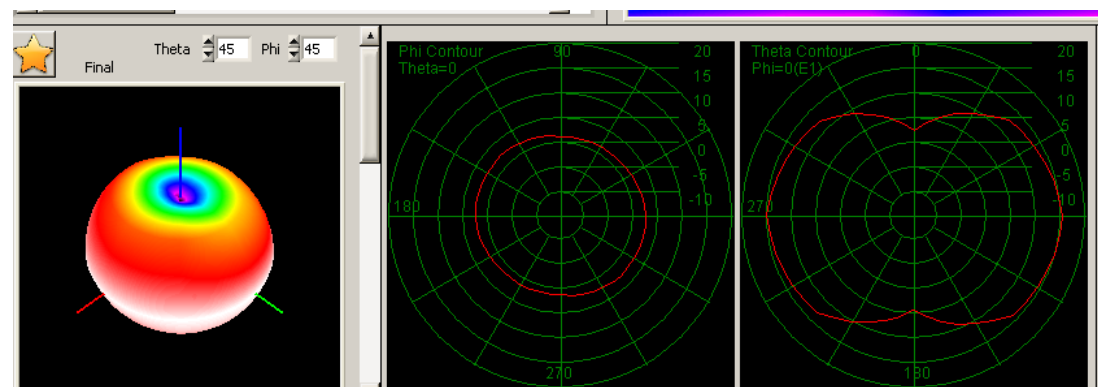
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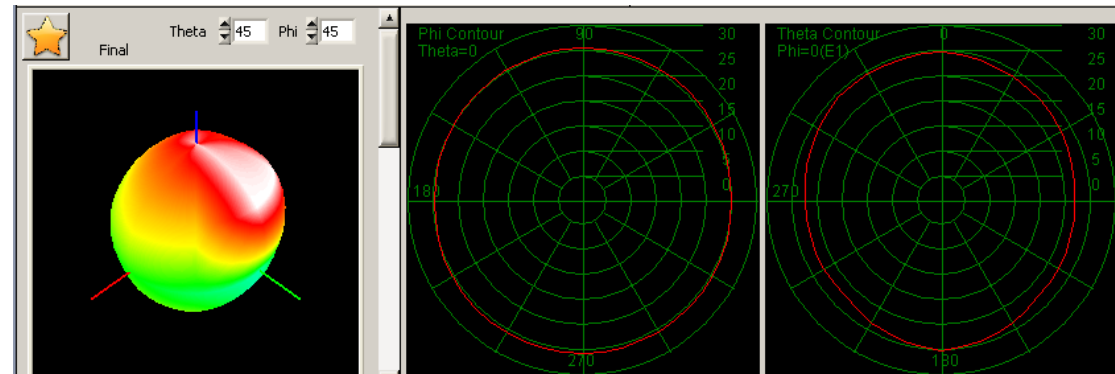
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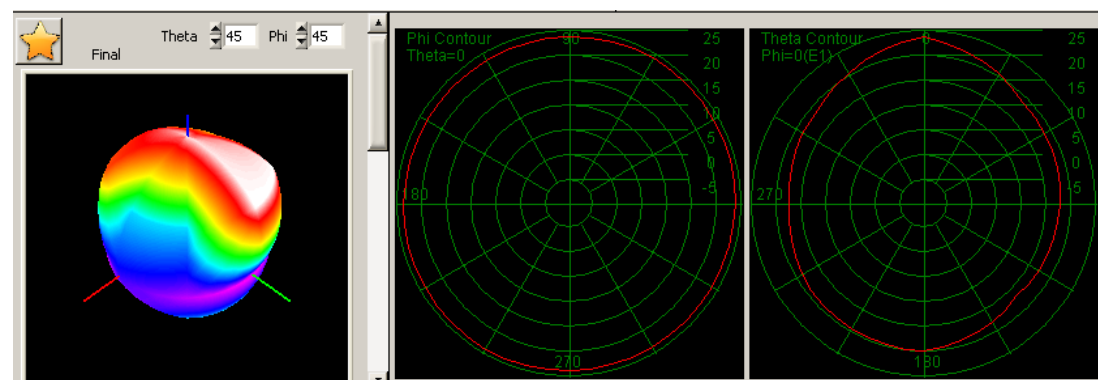
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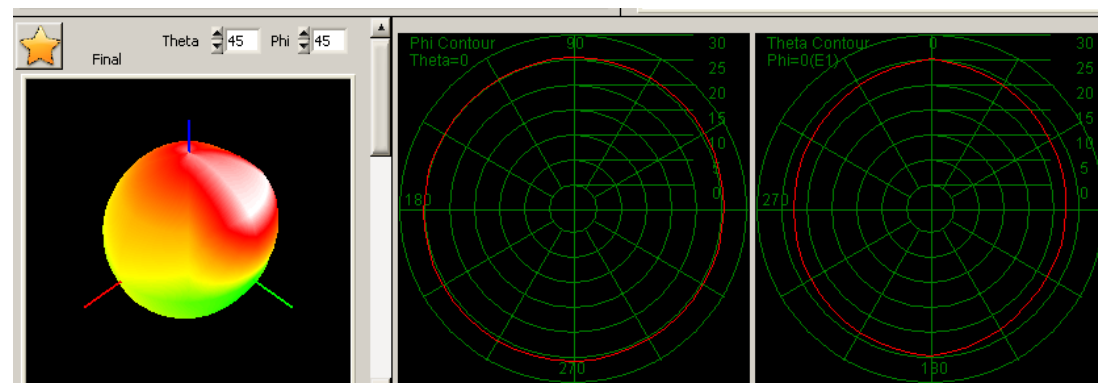
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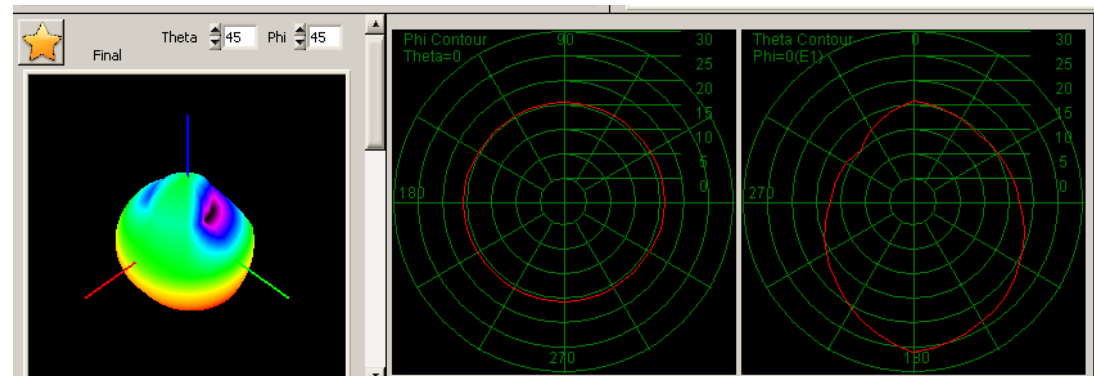
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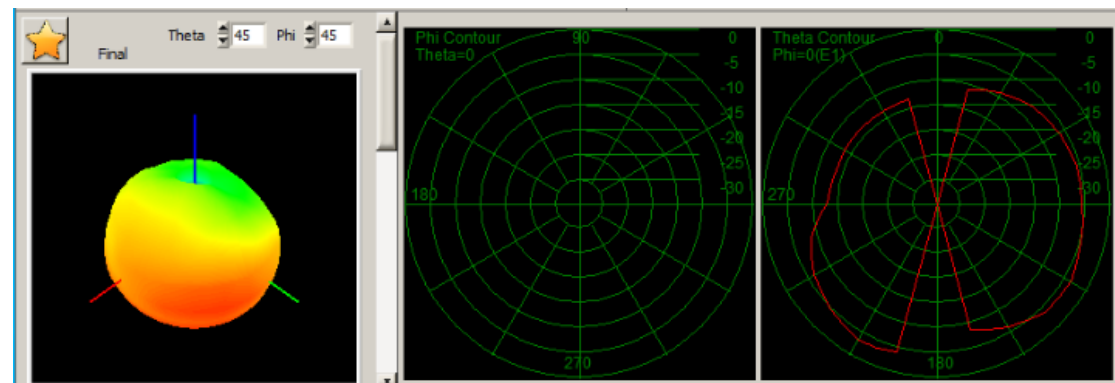
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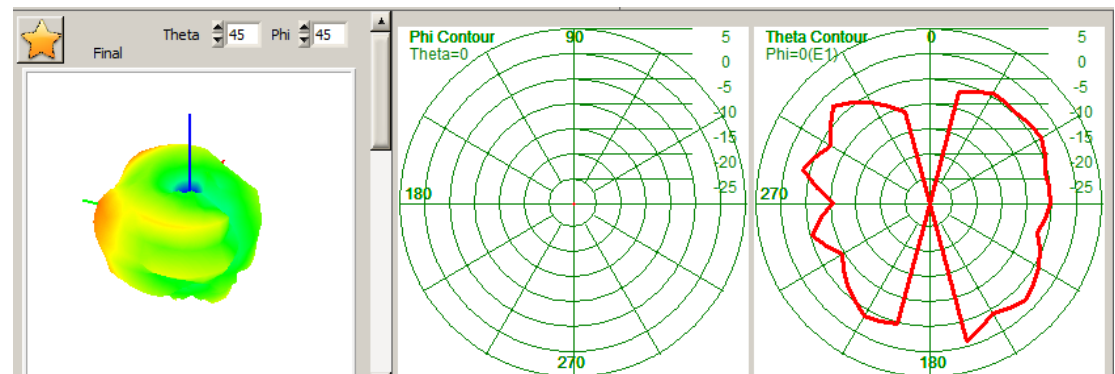
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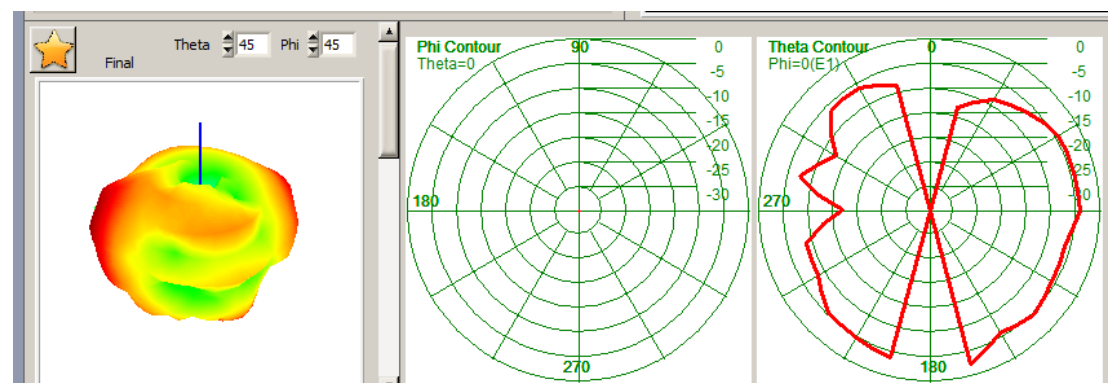
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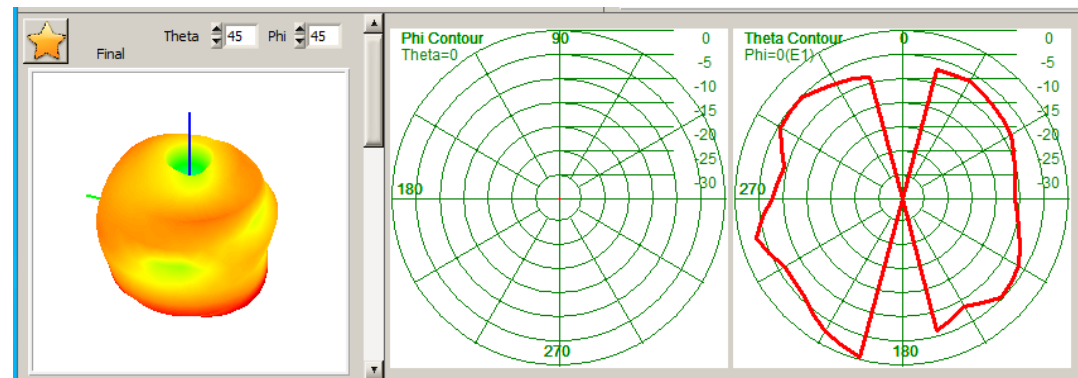
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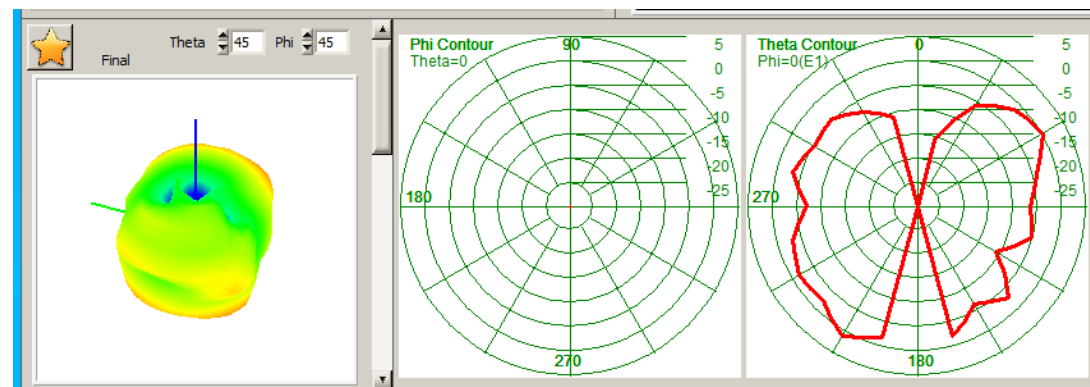
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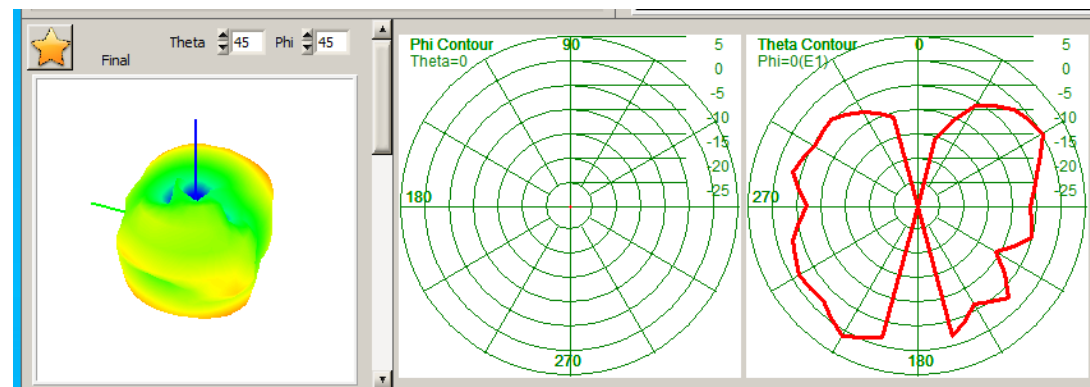
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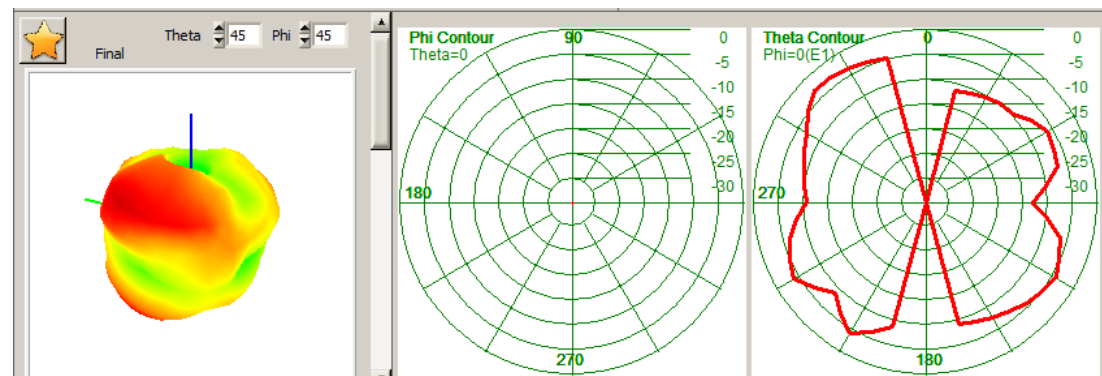
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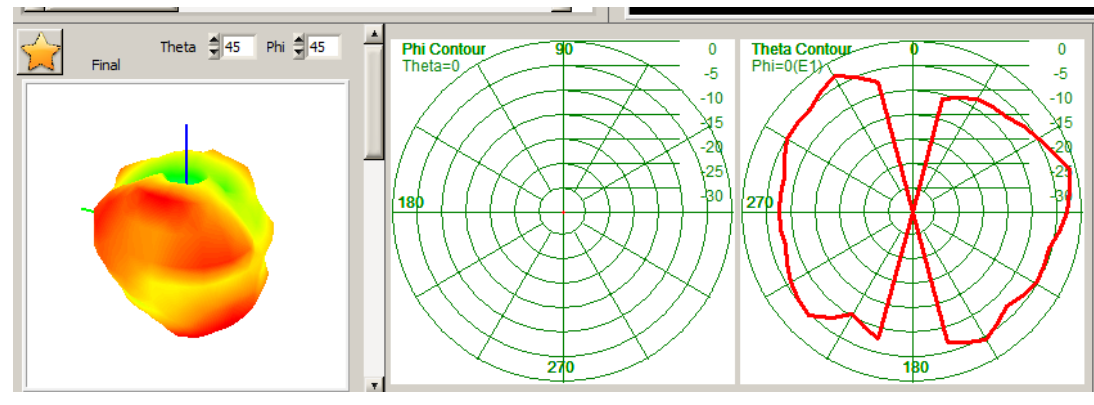
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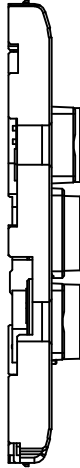
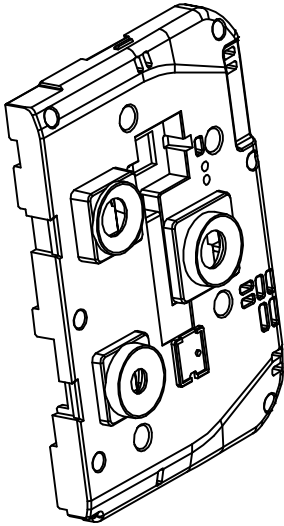
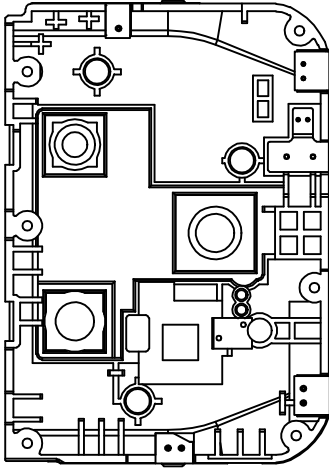
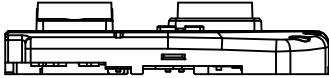
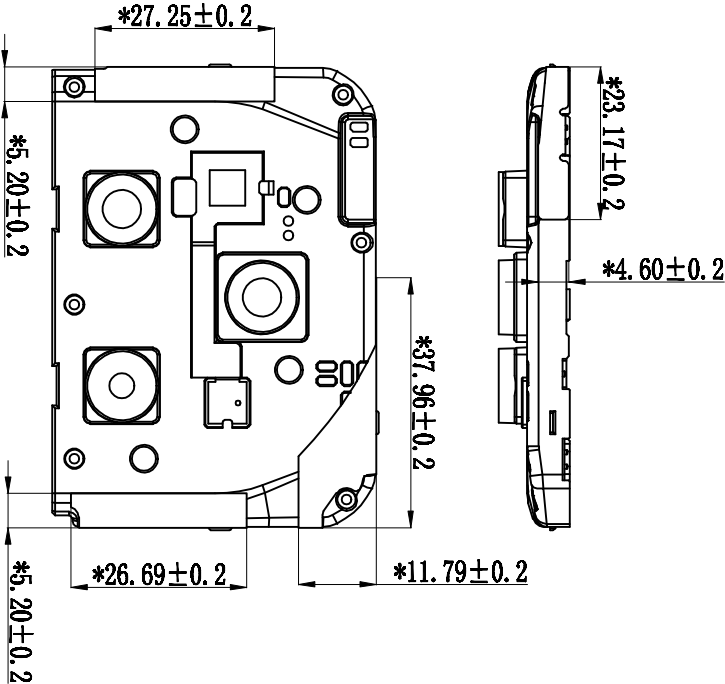
5.1G-WIFI



5.8G-WIFI



版本	修改内容	修改者	修改日期
T:3			

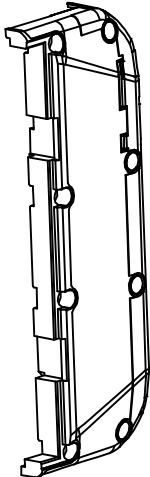
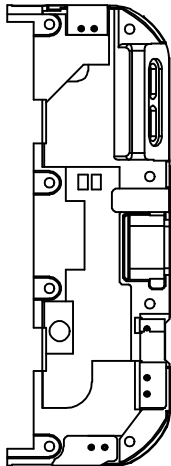
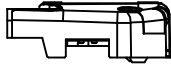
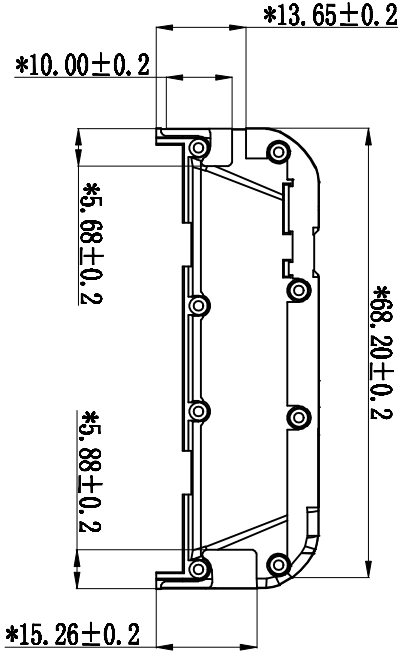


注:

1. 根据图纸检查喇叭来料素材, 素材不能有多胶, 缺胶, 脏污, 披风等外观问题.
2. 素材来料必须按照材质要求.
3. 材料性质为电解铜, 半对半材质 厚度0.05mm; (贴后充背面, 保证粘性)
4. 胶纸为: 3M-9471B进口胶; 5. 金手指表面镀金/镀银3~5u';
6. 保护膜为哑黑色/哑白色; 7. 总体厚度应小于或等于0.2mm
8. 只允许产品图导电;

3		1	黑色	深圳市麒麟鑫通达科技有限公司				
2		1		一般公差: 单位: mm 名称: S123 PFC上支架天线组件 设计:				
1		1		材质: R F: 表面处理: 确认: 颜色: 比例: 1:1 版本: A				
序号	名称	数量	材质					

版本	修改内容	修改者	修改日期
T:3			



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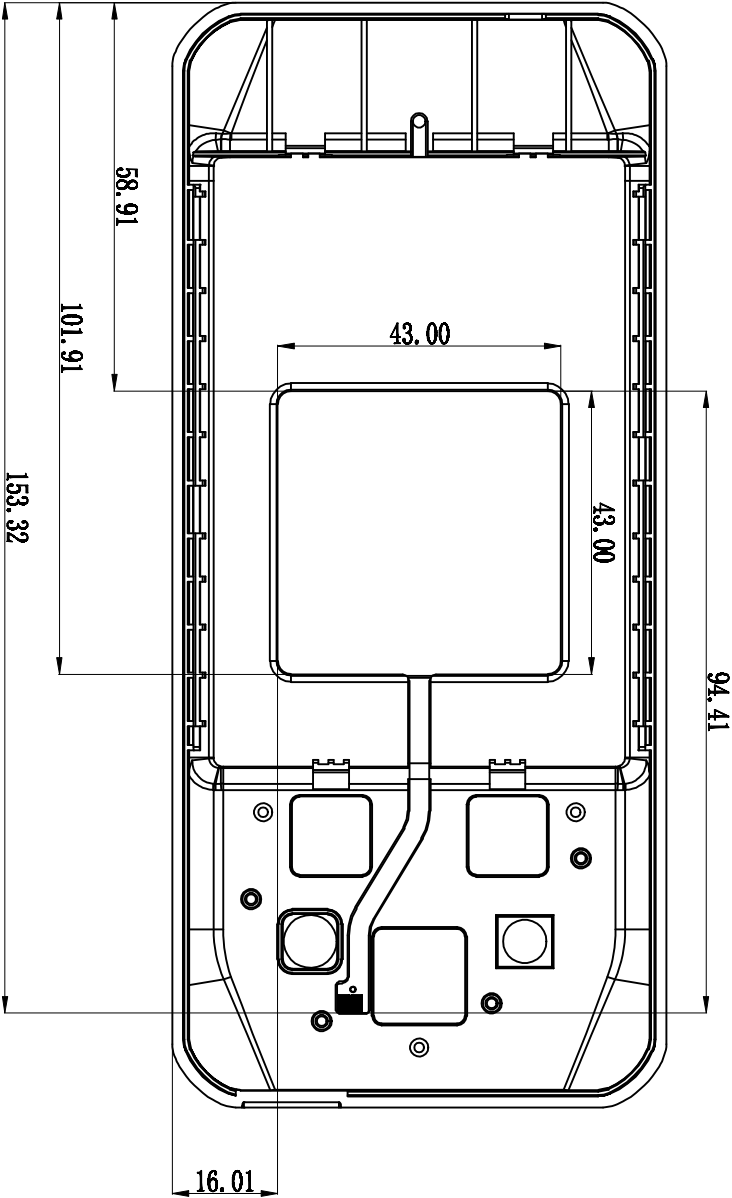
注:

1. 根据图纸检查喇叭来料素材，素材不能有多胶，缺胶，脏污，披风等外观问题。
2. 素材来料必须按照材质要求。
3. 材料性质为电解铜，半对半材质 厚度0.05mm; (贴后充背面, 保证粘性)
4. 胶纸为: 3M-9471B进口胶; 5. 金手指表面镀金/镀银3~5u';
6. 保护膜为哑黑色/哑白色; 7. 总体厚度应小于或等于0.2mm
8. 只允许产品图导电;

3		1	黑色	深圳市麒麟鑫通达科技有限公司 一般公差: L .X ±0.5 ±0.25 .XX ±0.15 ±0.05 ANGULAR ± 0.5° 单位: mm 名称: S123 FPC下支架组件 设计: R F: 确认: 材质: 表面处理: 颜色: 比例: 1:1 版本: A			
2		1					
1		1					
序号	名称	数量	材质				

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版本	修改内容	修改者	修改日期
T:3			



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- 注:
1. 根据图纸检查喇叭来料素材, 素材不能有多胶, 缺胶, 脏污, 披风等外观问题。
 2. 素材来料必须按照材质要求。
 3. 材料性质为电解铜, 半对半材质 厚度0.05mm; (贴后充背面, 保证粘性)
 4. 胶纸为: 3M-9471B进口胶; 5. 金手指表面镀金/镀银3~5u';
 6. 保护膜为哑黑色/哑白色; 7. 总体厚度应小于或等于0.2mm
 8. 只允许产品图导电;

3		1	黑色	深圳市麒麟鑫通达科技有限公司			
2		1		一般公差:			
1		1		L .1 ±0.25			
序号	名称	数量	材质	.XX ANGULAR ±0.15			
				±0.05			
				± 0.5°			
				名称: S123 NFC天线组件			
				单位: mm			
				设计:			
				R F:			
				确认:			
				比例: 1:1			
				版本: A			

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8.Introduction to Antenna Information

S120	
Antenna type and frequency band	MAIN ANTENNA(<u>PIFA</u>):2G/3G/4G/5G DIV ANTENNA(<u>PIFA</u>):2G/3G/4G/5G GPS/WIFI/BT ANTENNA(<u>PIFA</u>):L1/2.4GWIFI/BT
Antenna materia	LDS