

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)

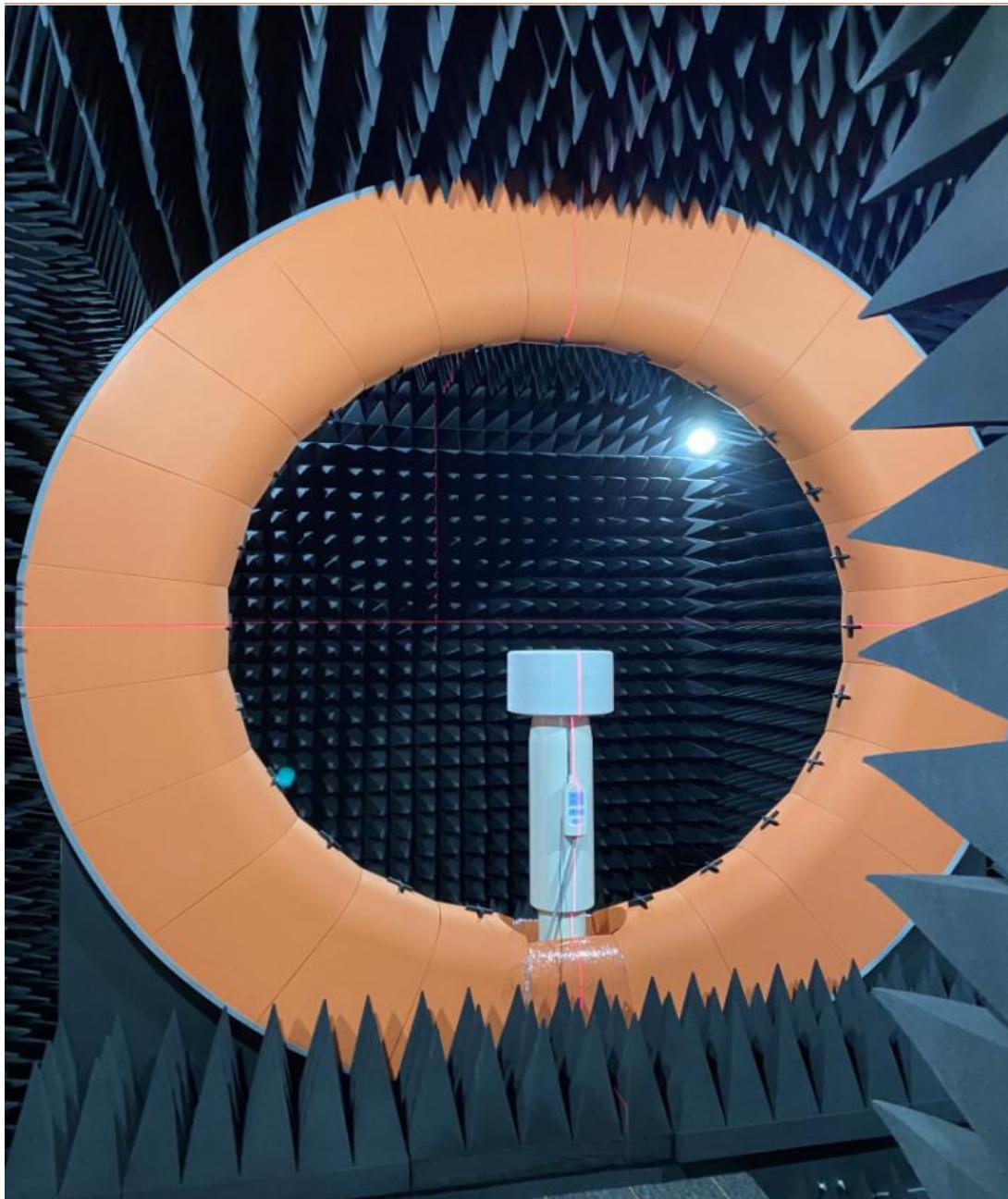


CMW 500 (2G/3G/4GTest Equipment)



SP9500 (5GTest Equipment)

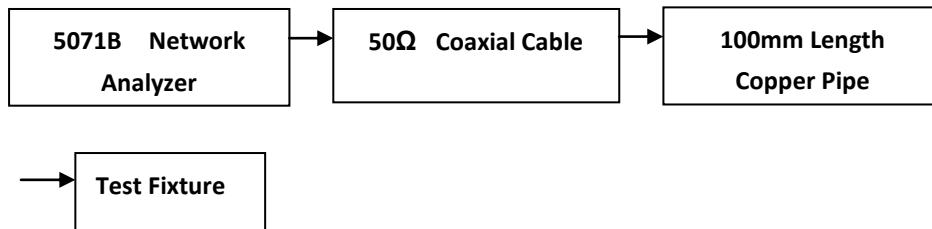
3. TestEnvironment



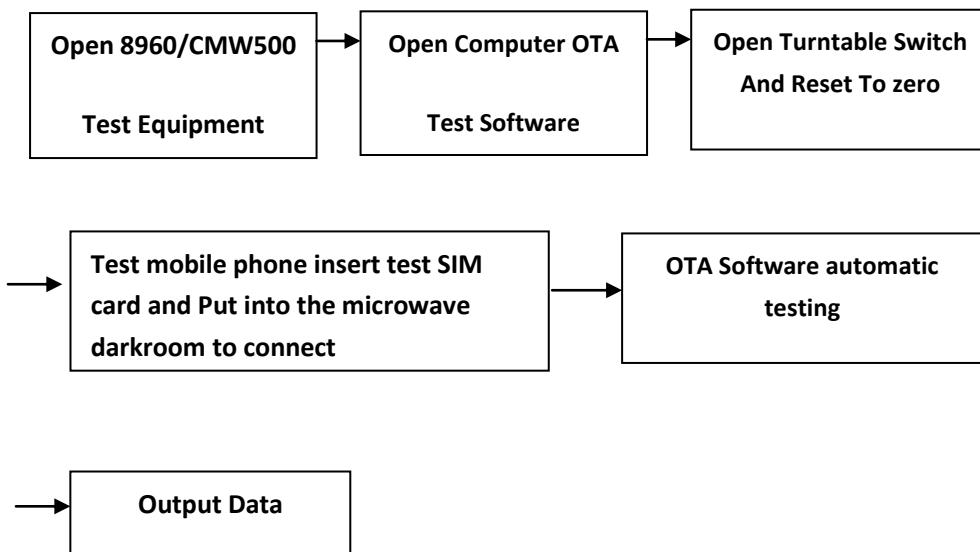
Microwave Anechoic Chamber

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

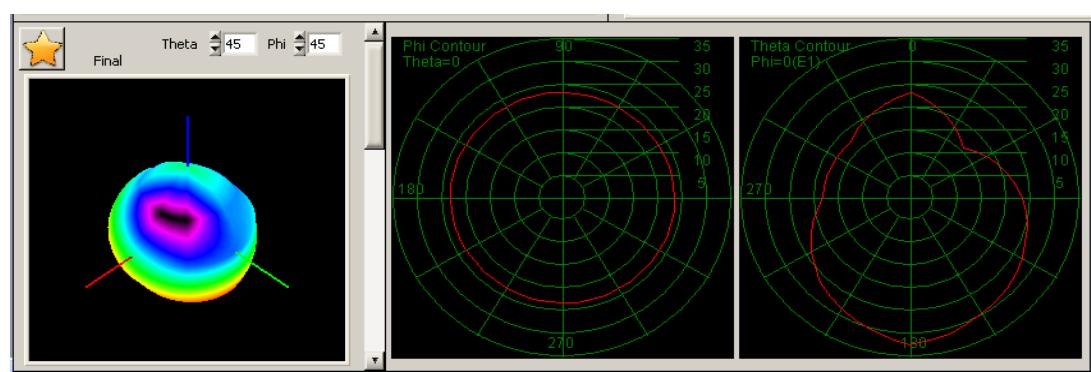
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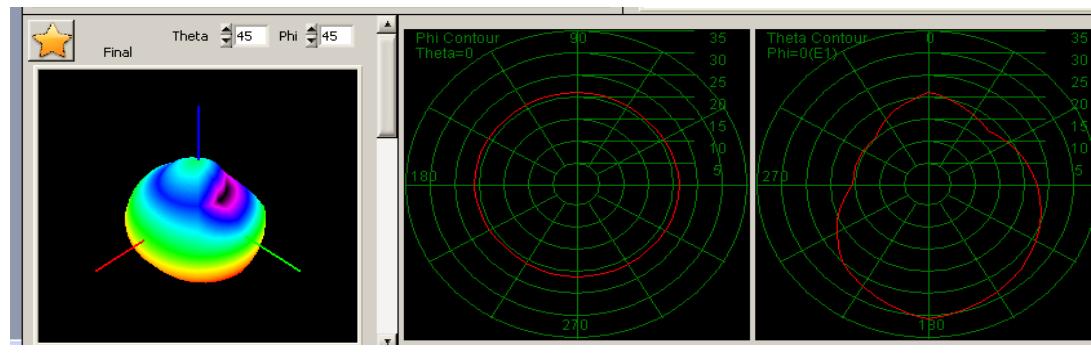
GSM900



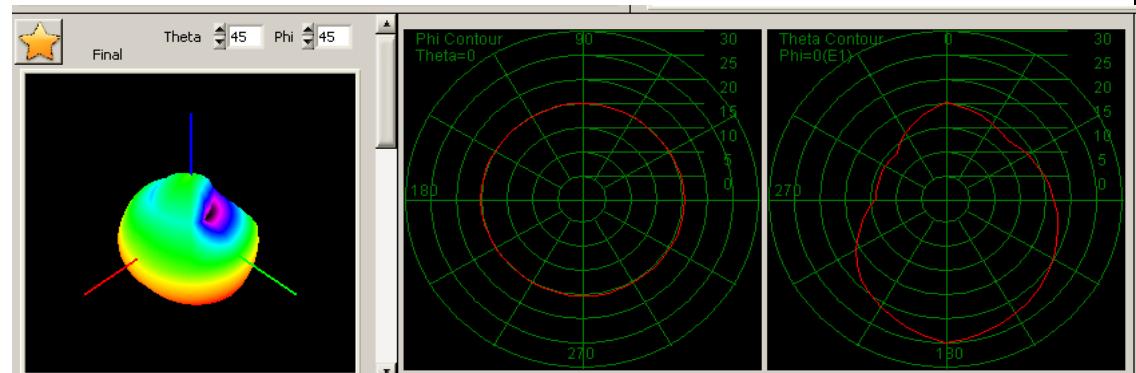
DSC1800



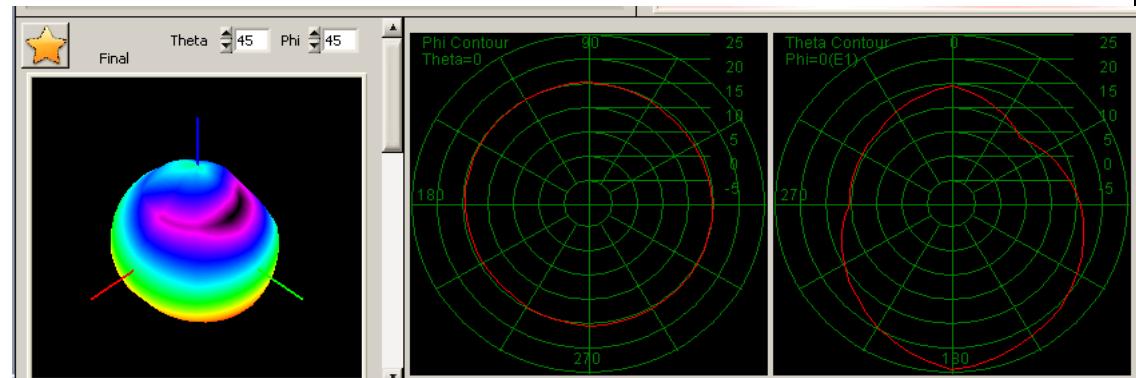
PCS1900



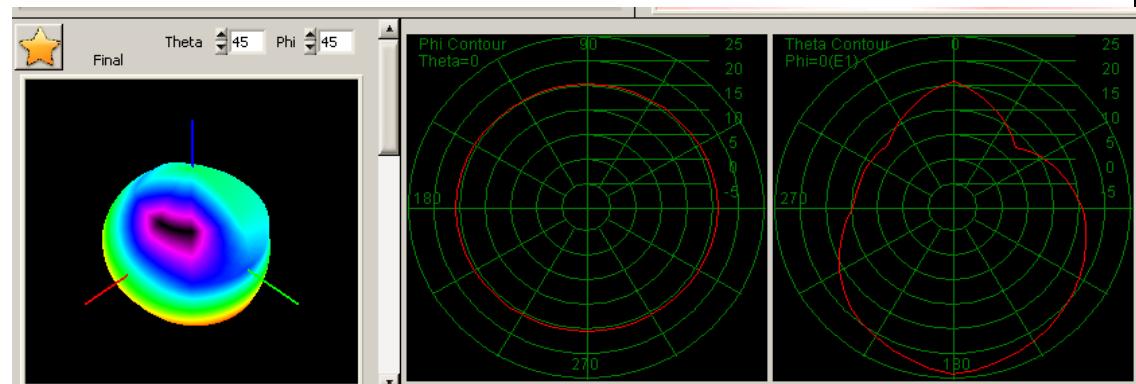
W1



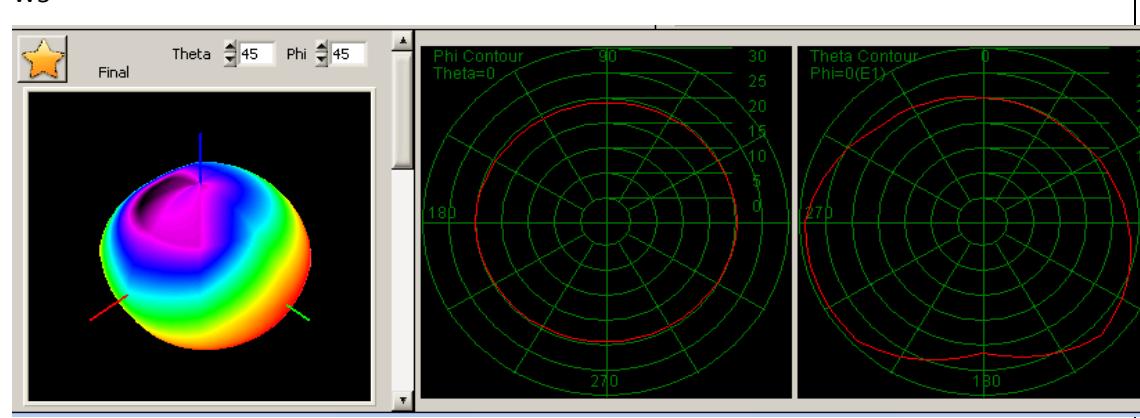
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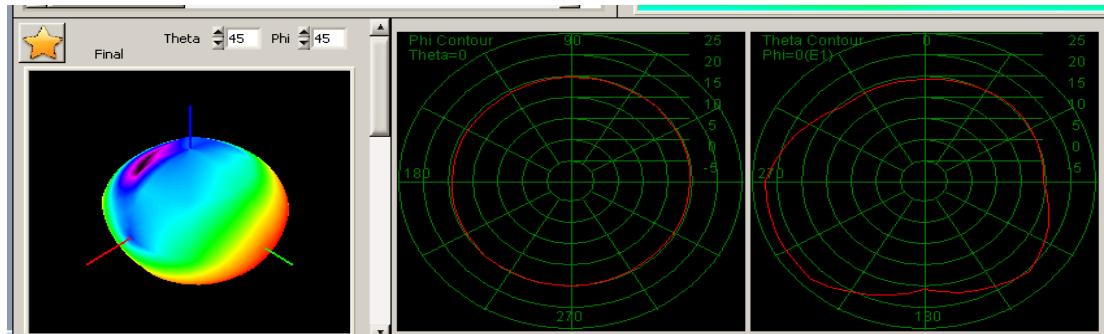
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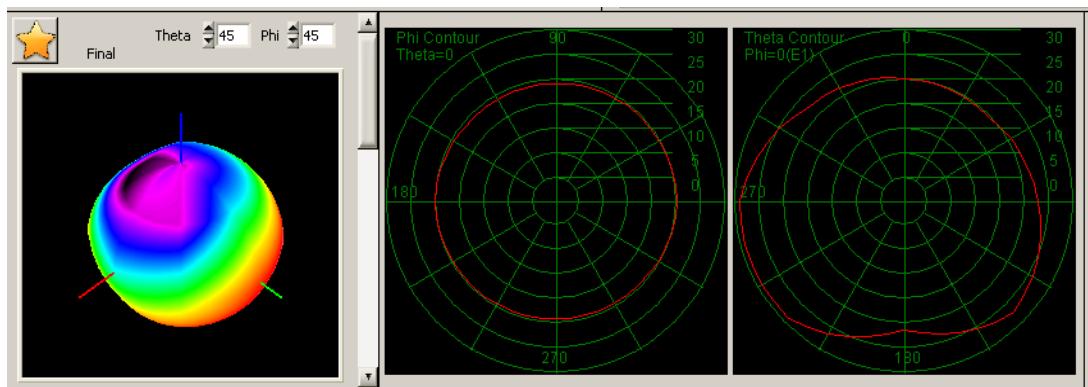
W5



W8



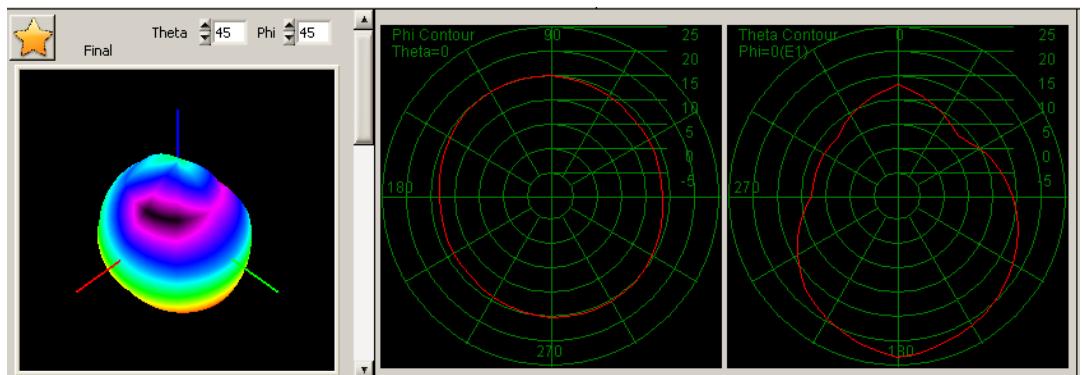
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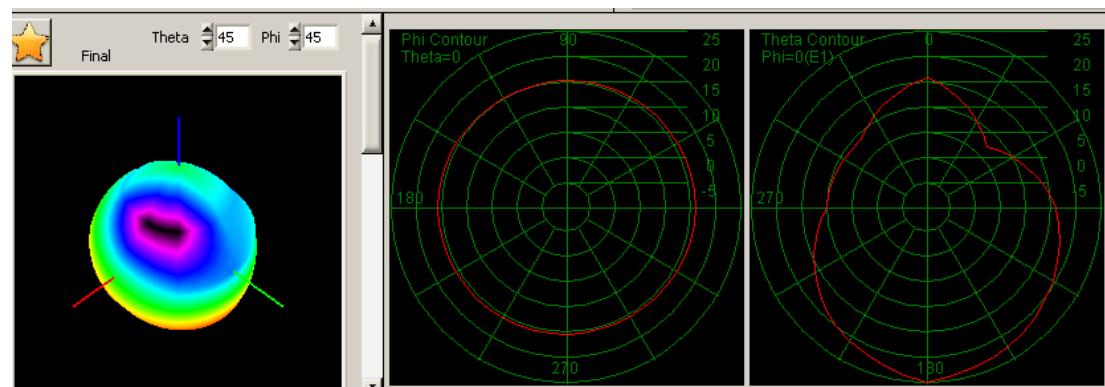
FDD-B1



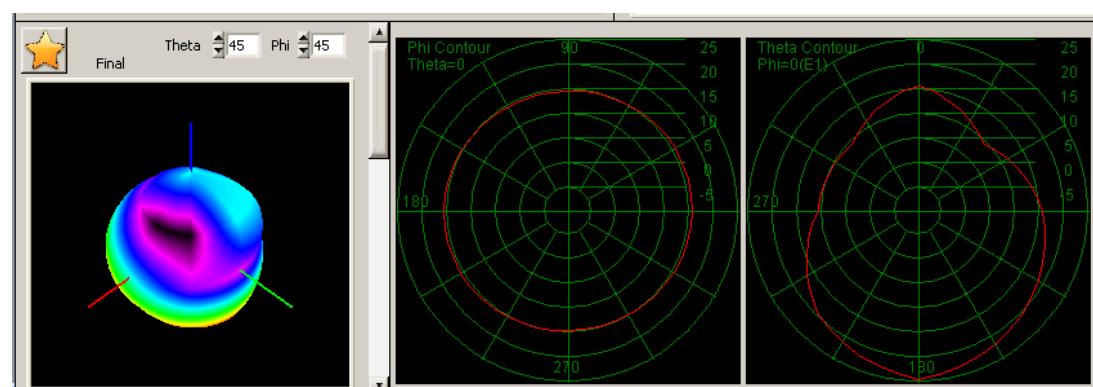
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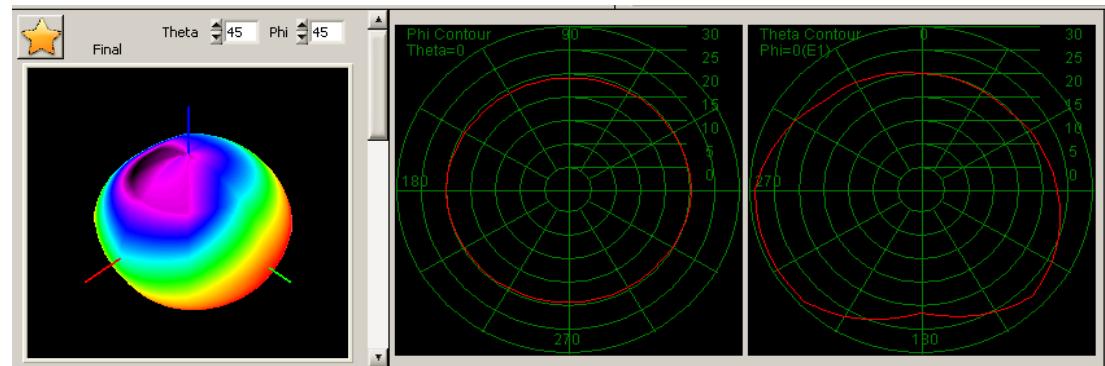
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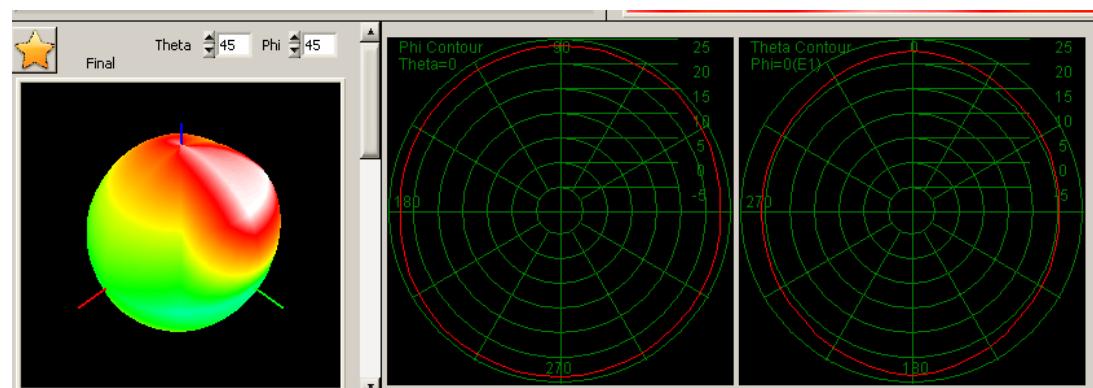
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FDD-B5



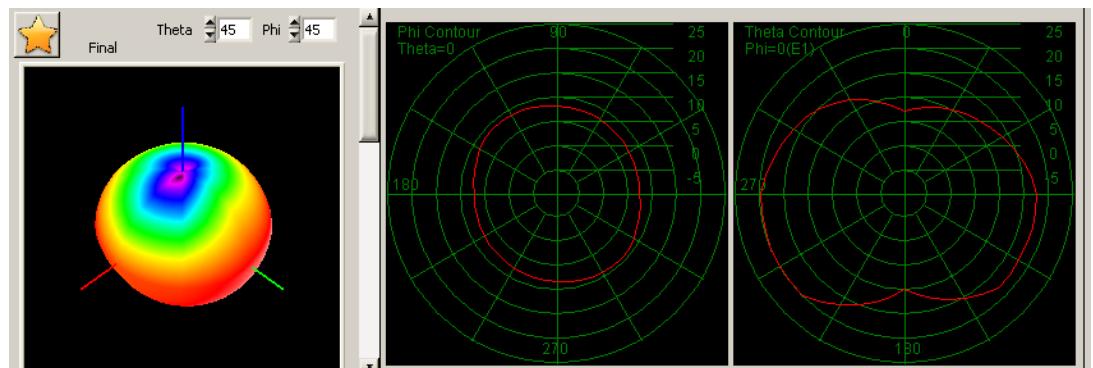
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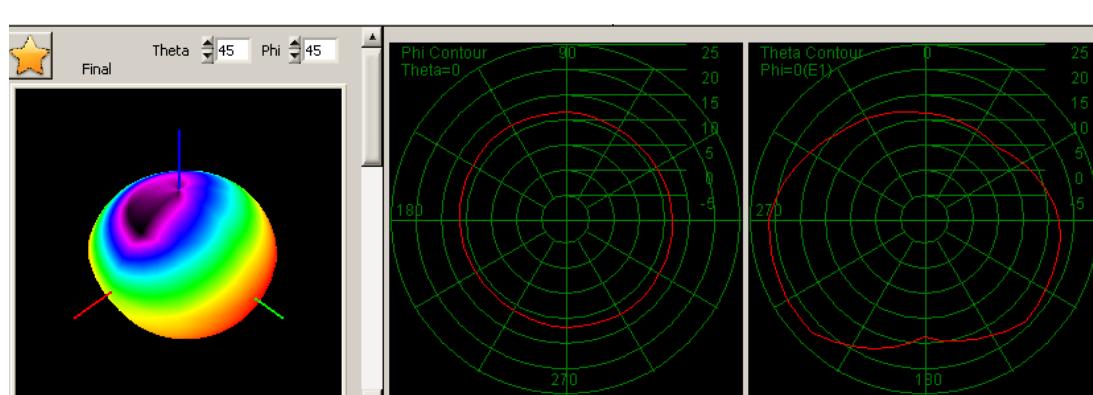
FDD-B8



FDD-B12



FDD-B13



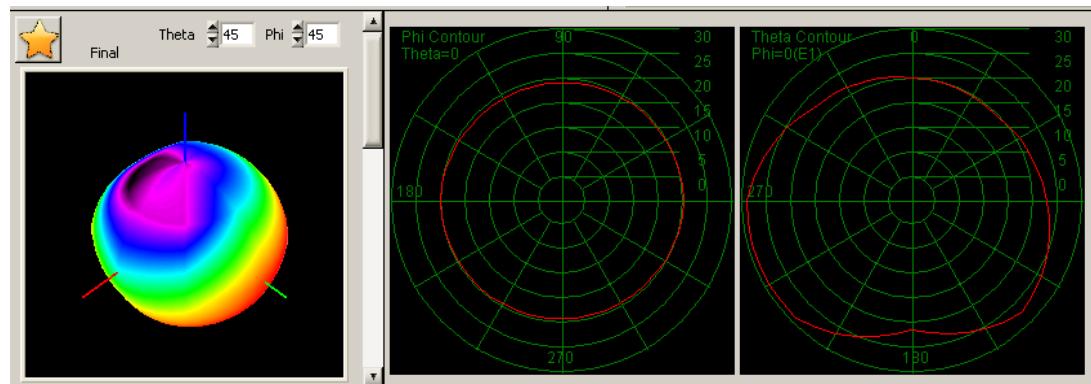
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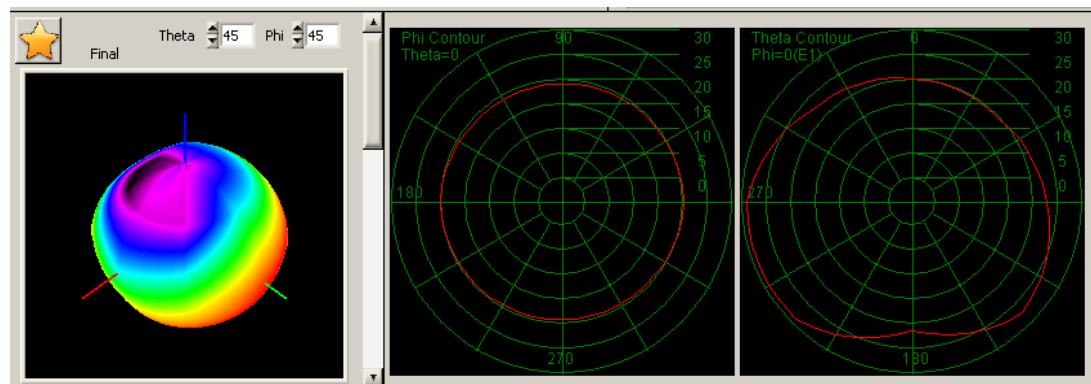
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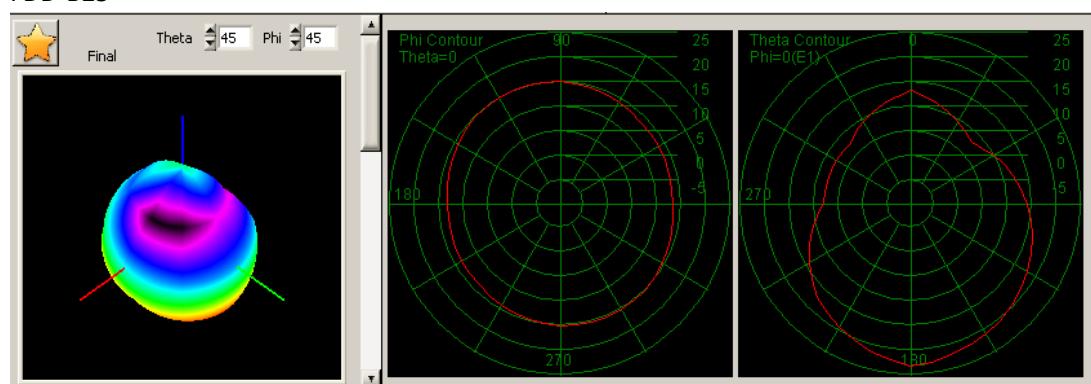
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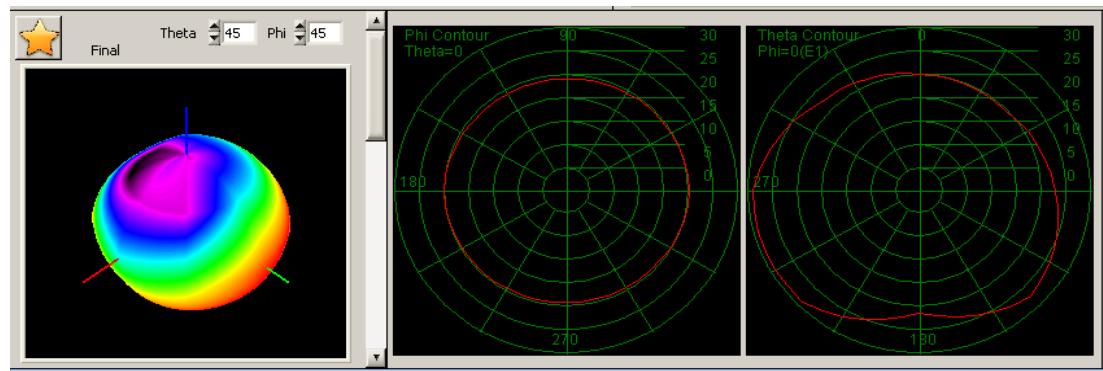
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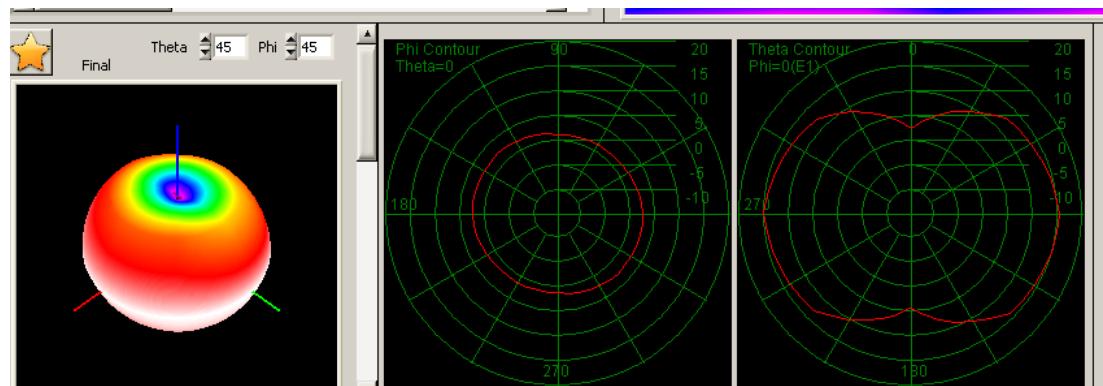
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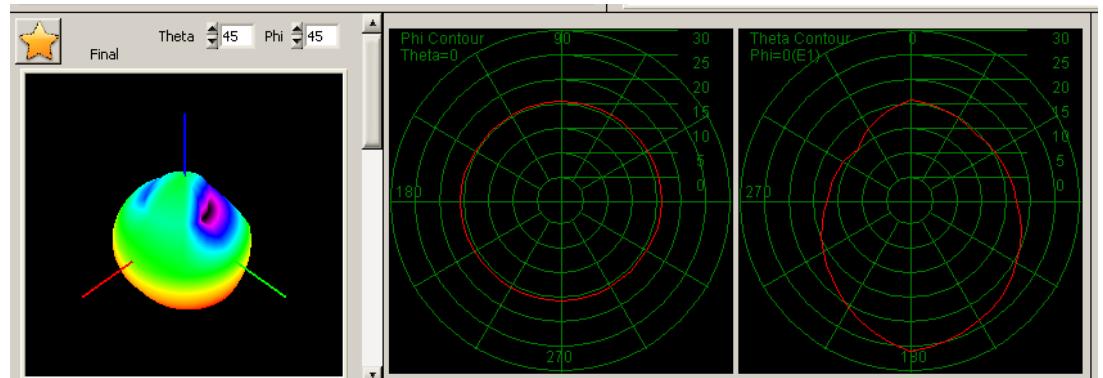
FDD-B26



FDD-B28



FDD-B66



FDD-B71



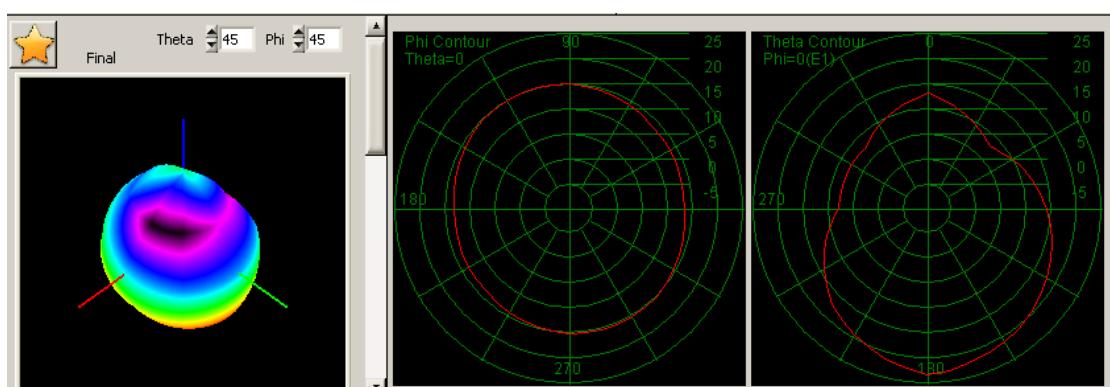
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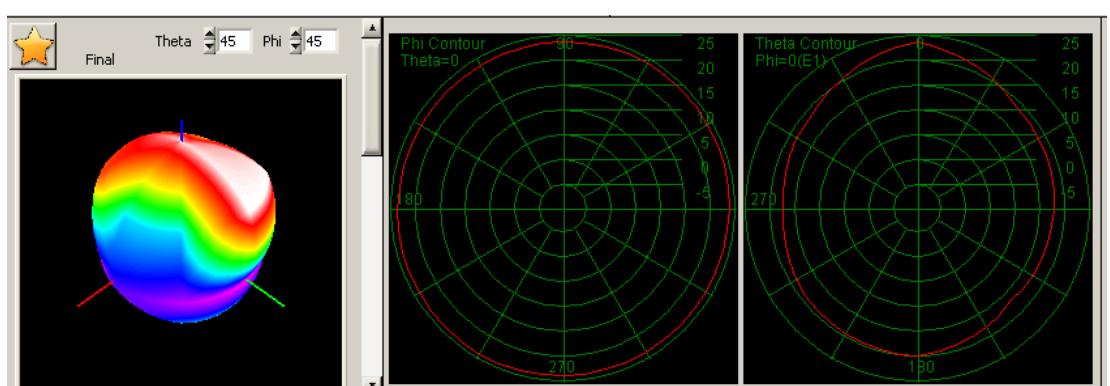
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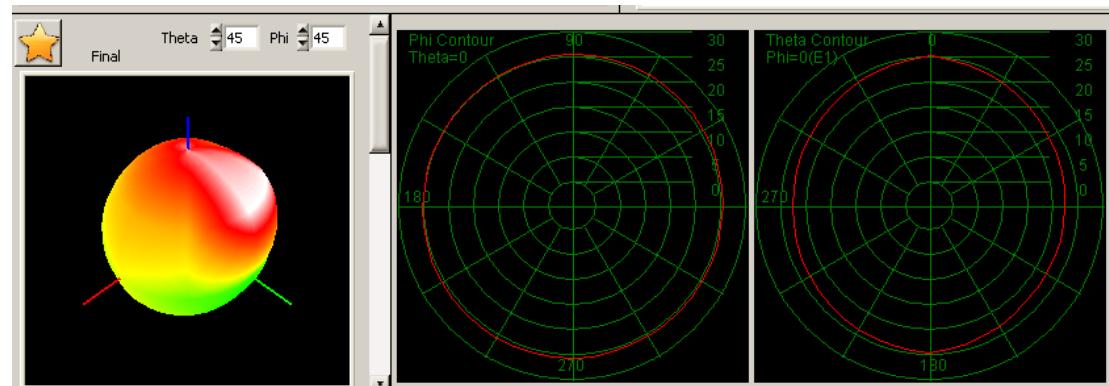
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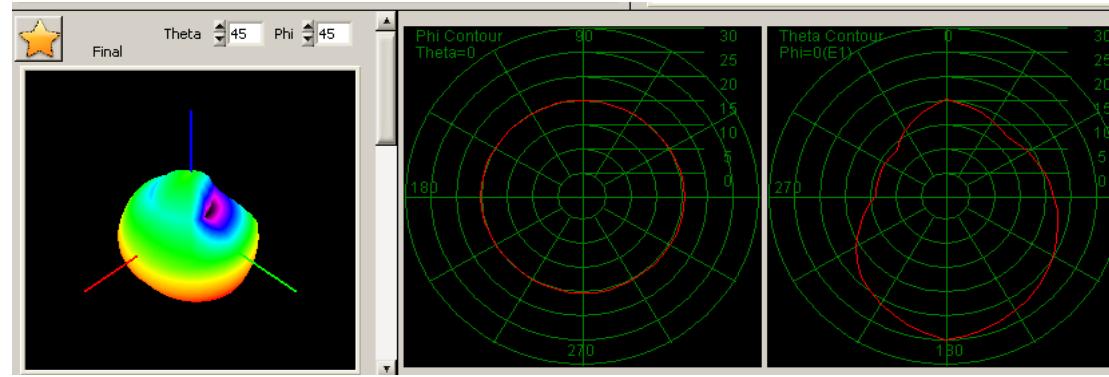
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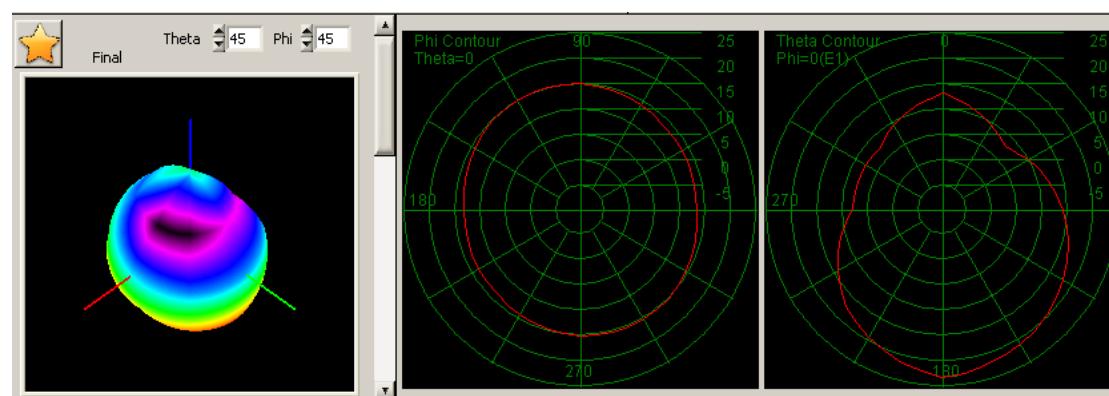
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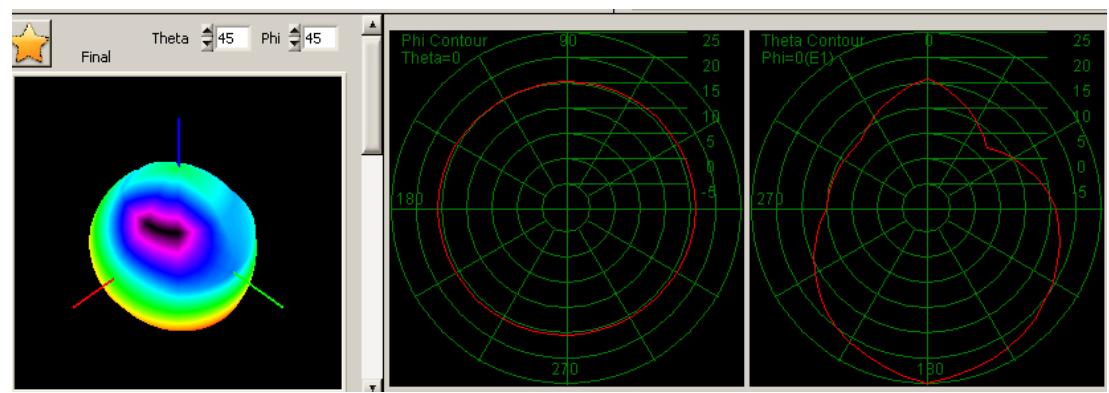
NR-1



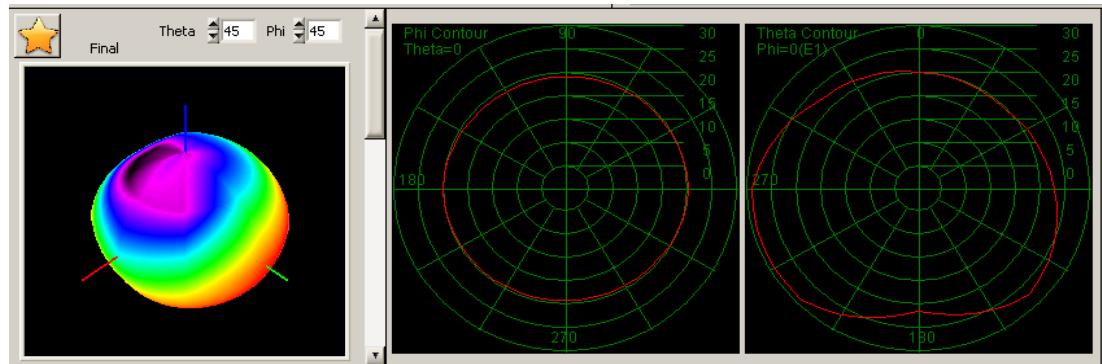
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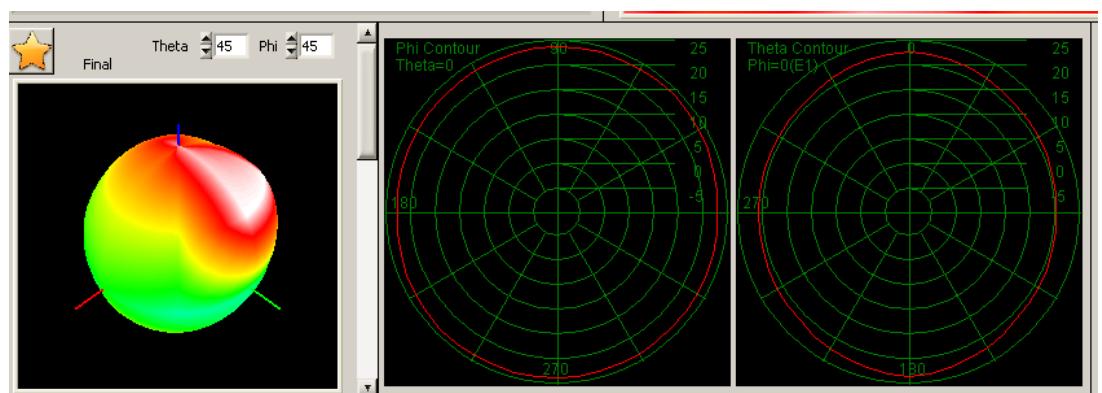
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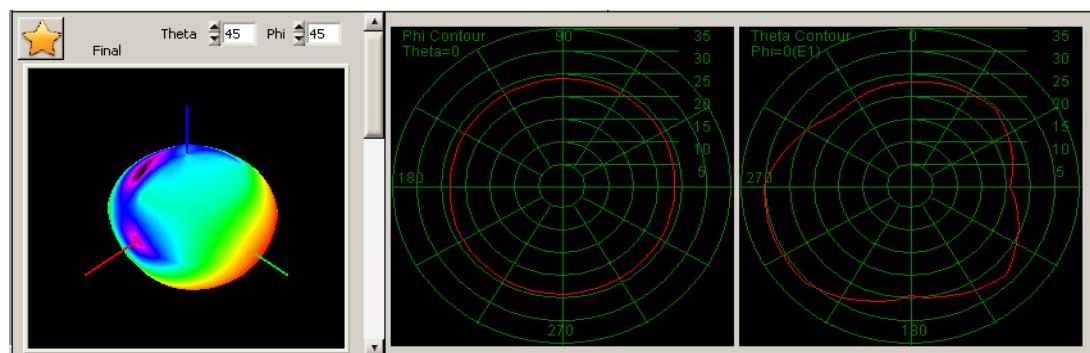
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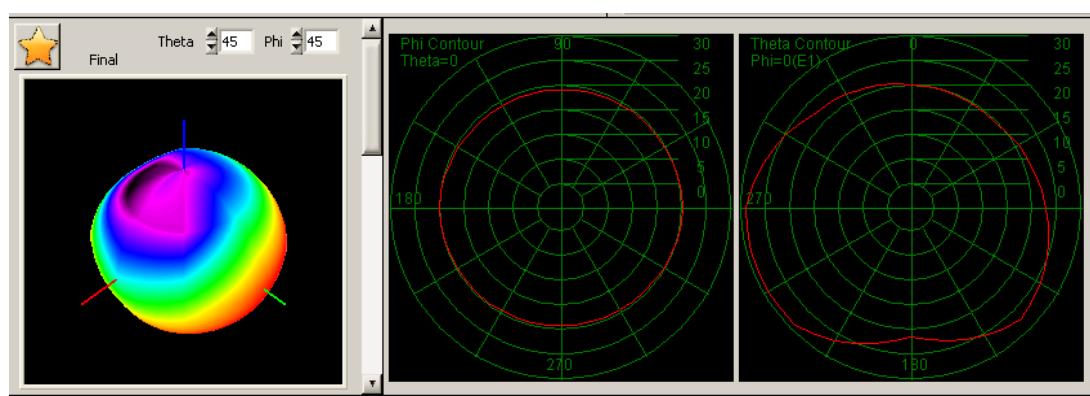
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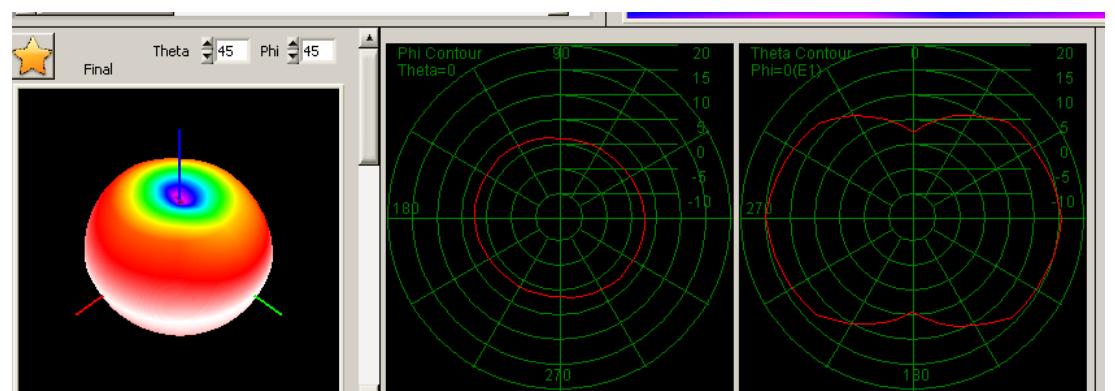
NR-8



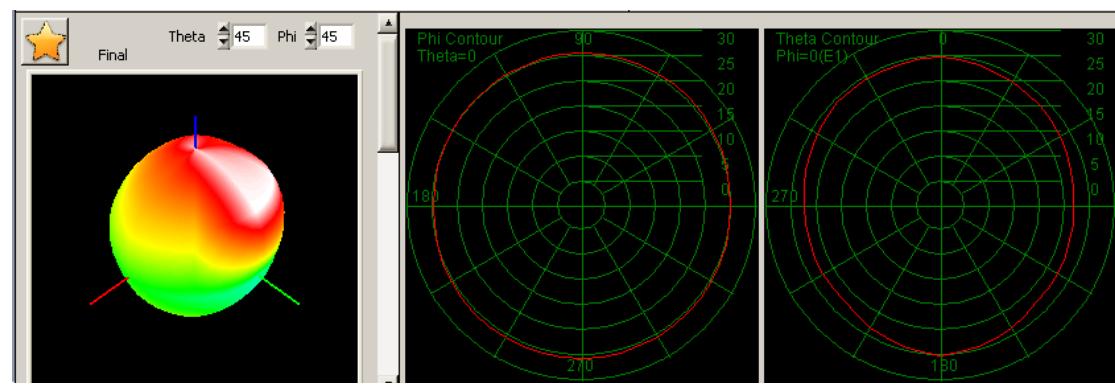
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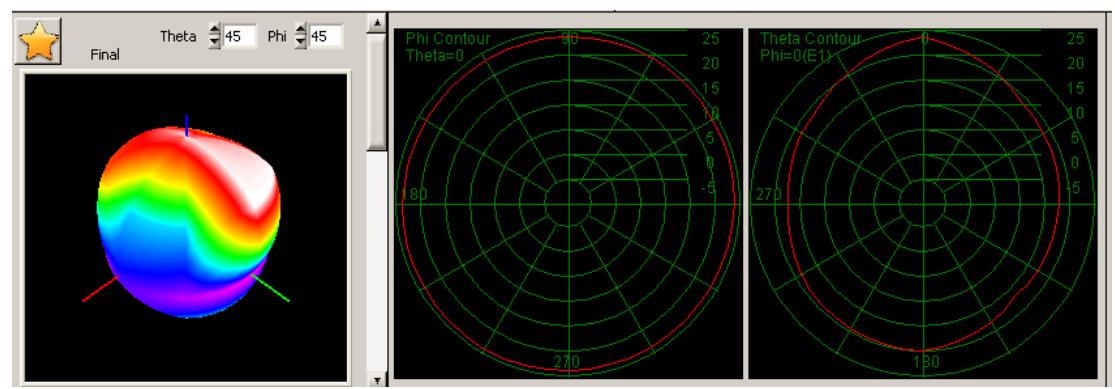
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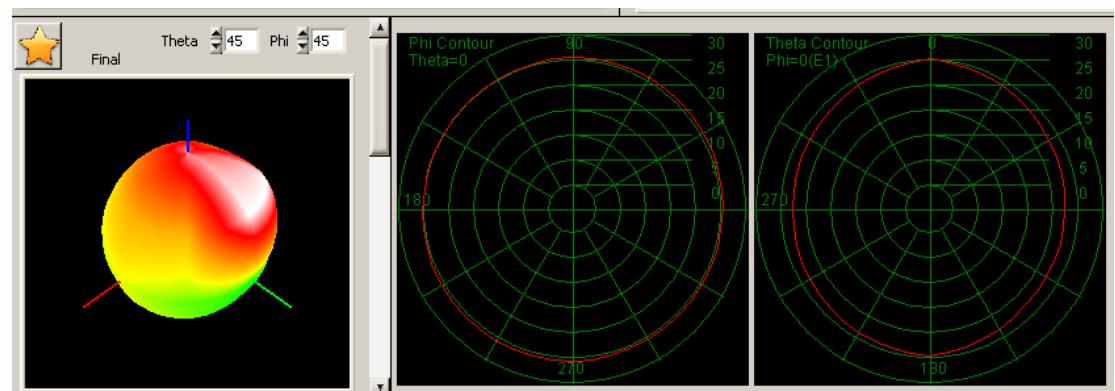
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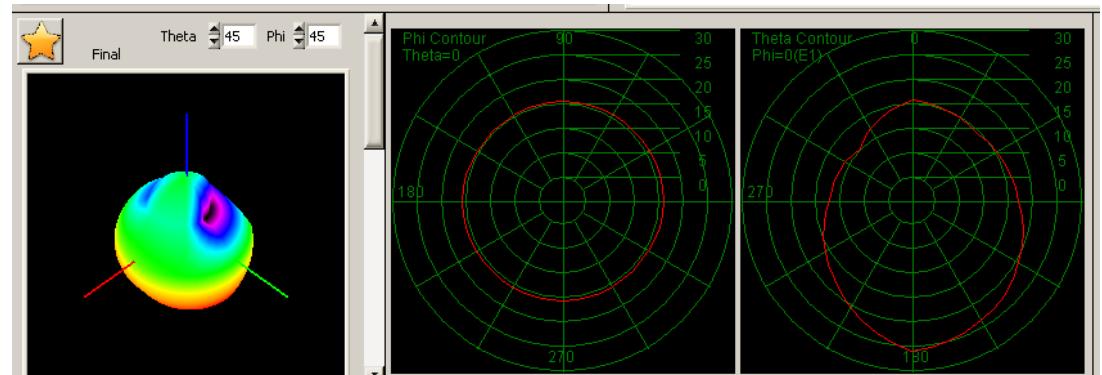
NR-40



NR-41



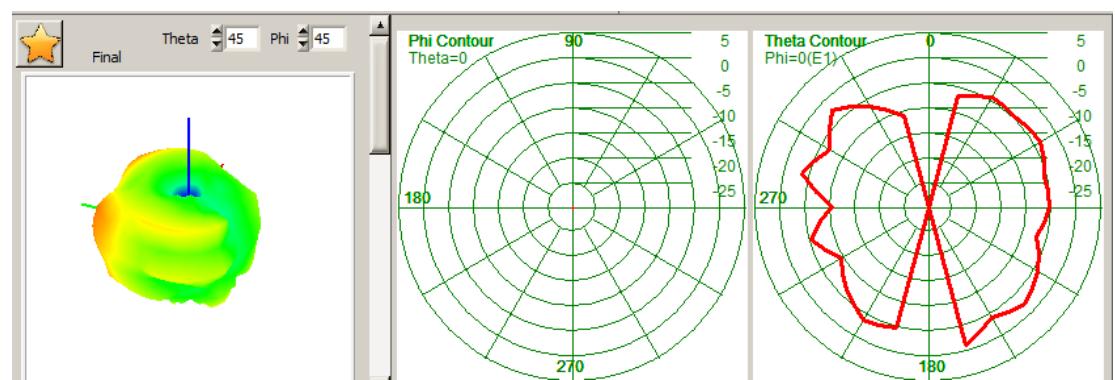
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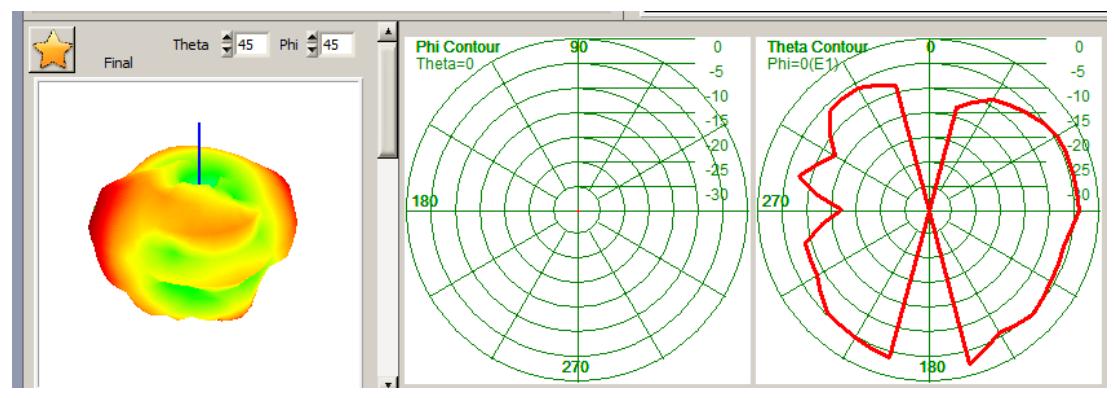
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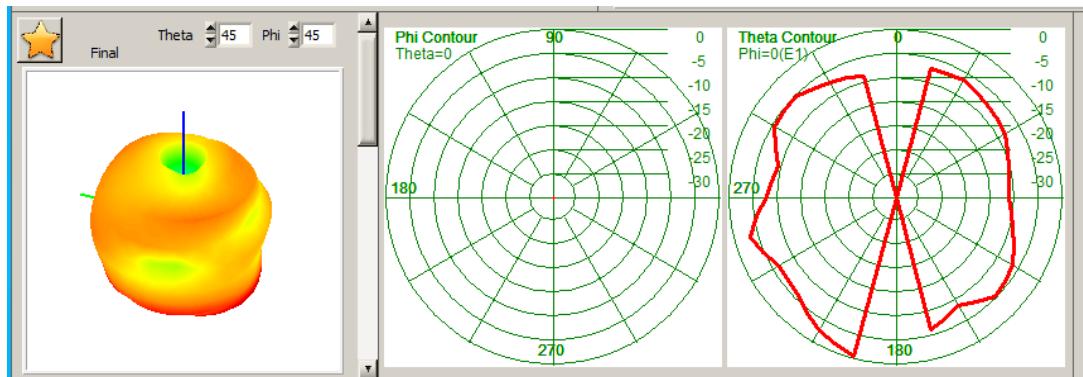
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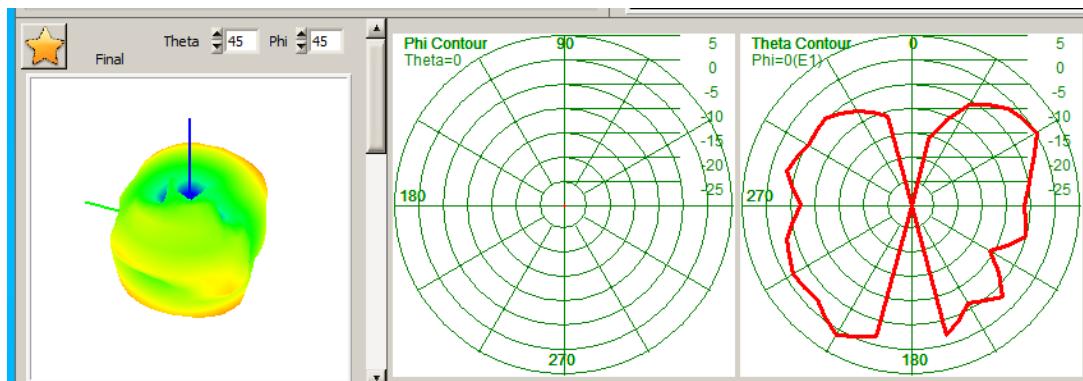
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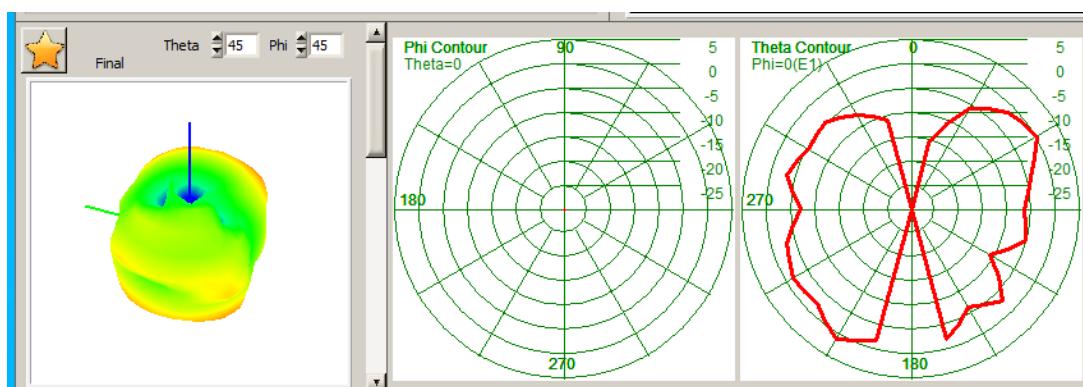
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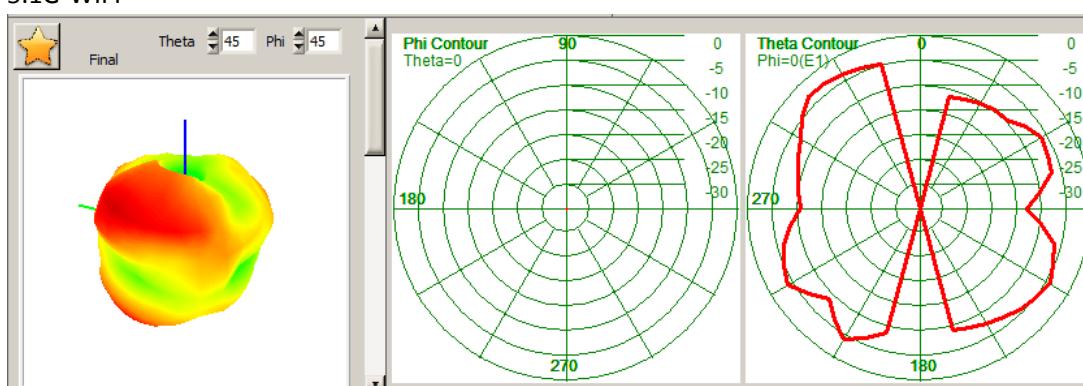
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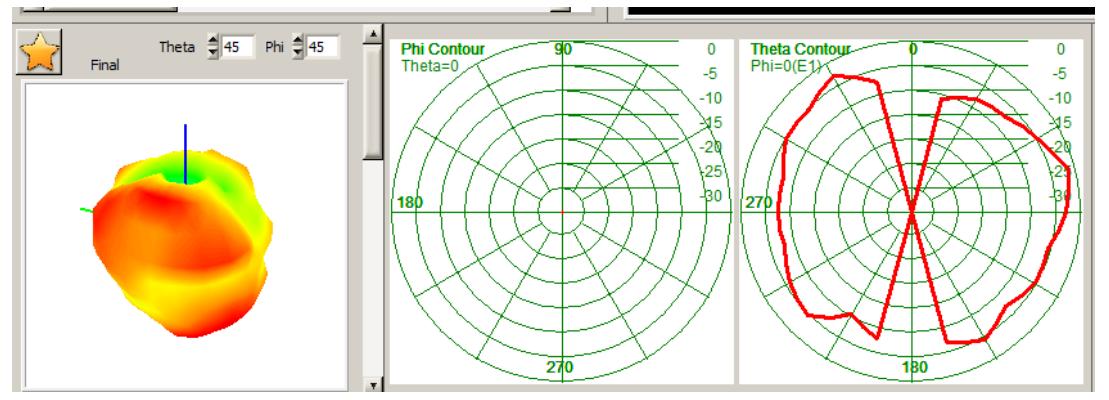
2.4G-WIFI



5.1G-WIFI



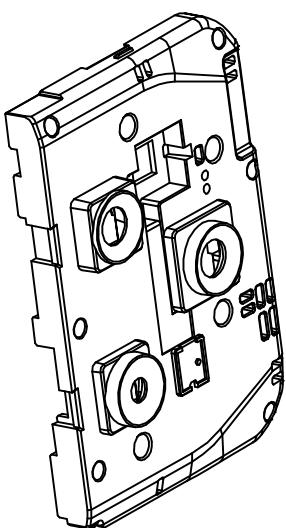
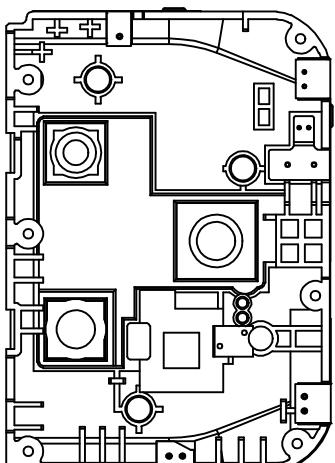
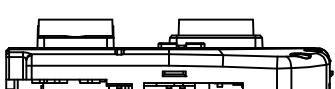
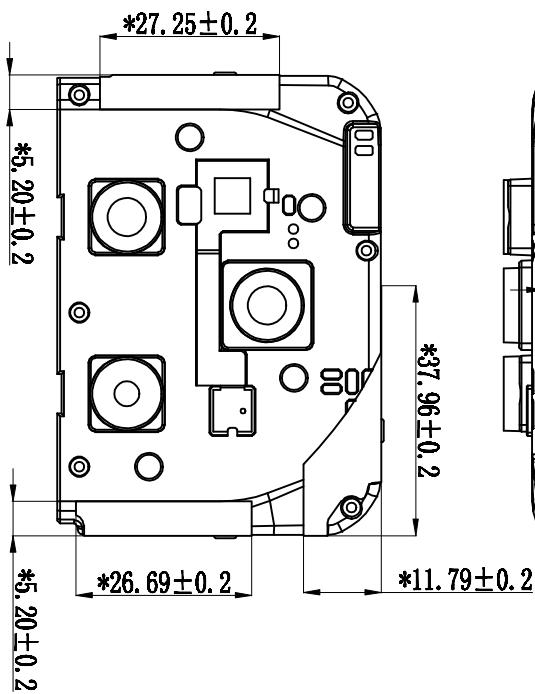
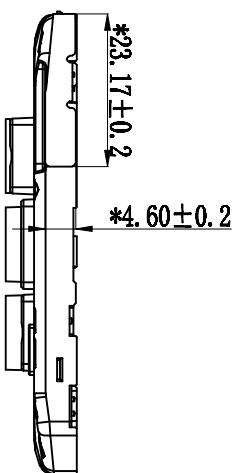
5.8G-WIFI



1 2 3 4

版本	修改内容	修改者	修改日期
T.B			

A



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. 材料性质为电保铜，半刚半韧质，厚度0.05mm；(贴后壳背面，保证粘性)
4. 成纸为：PET-947E进口膜；5. 金手指表面镀金/镀镍3~5μ；
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. 只充扩产品圈导电。

序号	名称	数量	材质	单位: mm	名称: S123 FPC上支架天线组件	设计:
3		1	黑色			
2		1				

D

L	一般公差:	±0.5		
I		±0.25		
M		±0.15		
XX		±0.05		

材料:

RF:

表面处理:

确认:

颜色:

比例: 1:1

版本: A

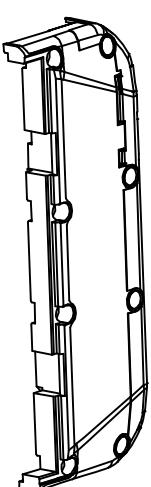
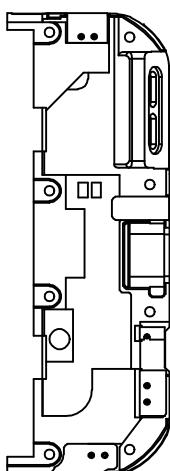
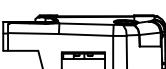
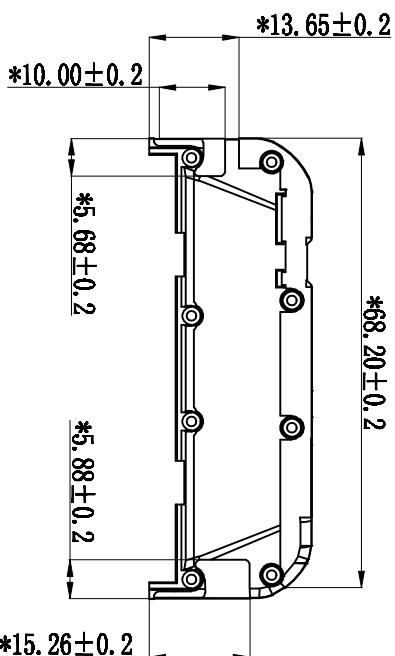
1

2

3

4

版本	修改内容	修改者	修改日期
T.B			



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. 材料性质为电焊铜，半刚半韧质，厚度0.05mm；(贴后壳背面，保证粘性)
 4. 成形为：JST-9471E进口胶；5. 金手指表面镀金/镀镍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. 只充扩产品圈导电；

D

序号	名称	数量	材质	单位: mm	名称: S123 FPC下支架组件	设计:
3		1	黑色			
2		1				

深圳市麒鑫通达科技有限公司

D

版本	修改内容	修改者	修改日期
TB			

94.41

94.41

43.00

43.00

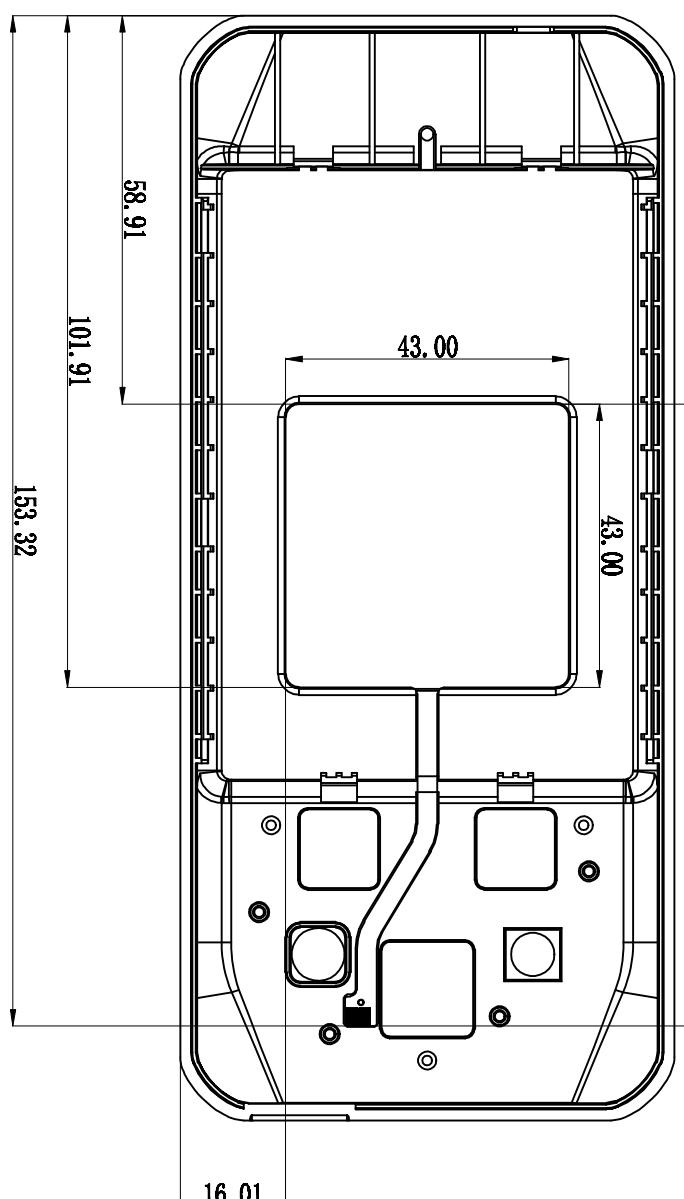
43.00

58.91

101.91

153.32

16.01



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. 材料性质为电焊铜，半刚半韧质，厚度0.05mm；(贴后壳背面，保证粘性)
4. 成底为：JST-9471E进口胶；5. 金手指表面镀金/镀镍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. 只充扩产品圈导电；

序号	名称	数量	材质	单位: mm	名称: S123 NFC天线组件	设计:
3		1	黑色			
2		1				

深圳市麒鑫通达科技有限公司

L I M X XX ANGULAR	± 0.5 ± 0.25 ± 0.15 ± 0.05 $\pm 0.5^\circ$	颜色: 比例: 1:1 版本: A	确认:	RF:	设计:
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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