

Shenzhen Qi Xin Tongda Technology Co., LTD

Antenna specification

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

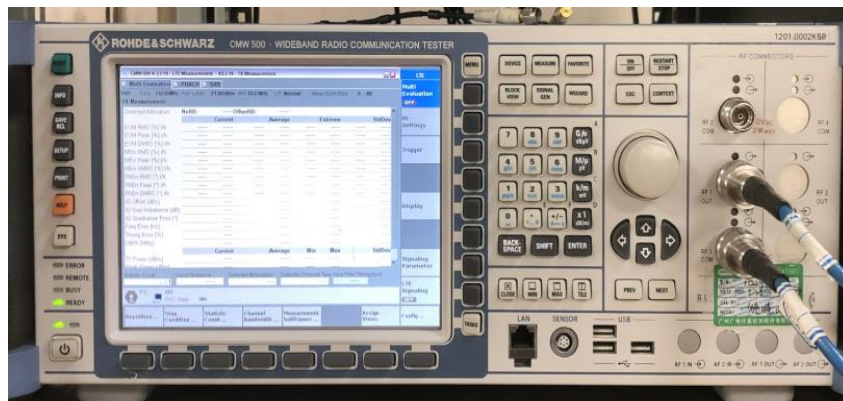
2. Test Equipment



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



Agilent 8960 (2G/3G Test Equipment)

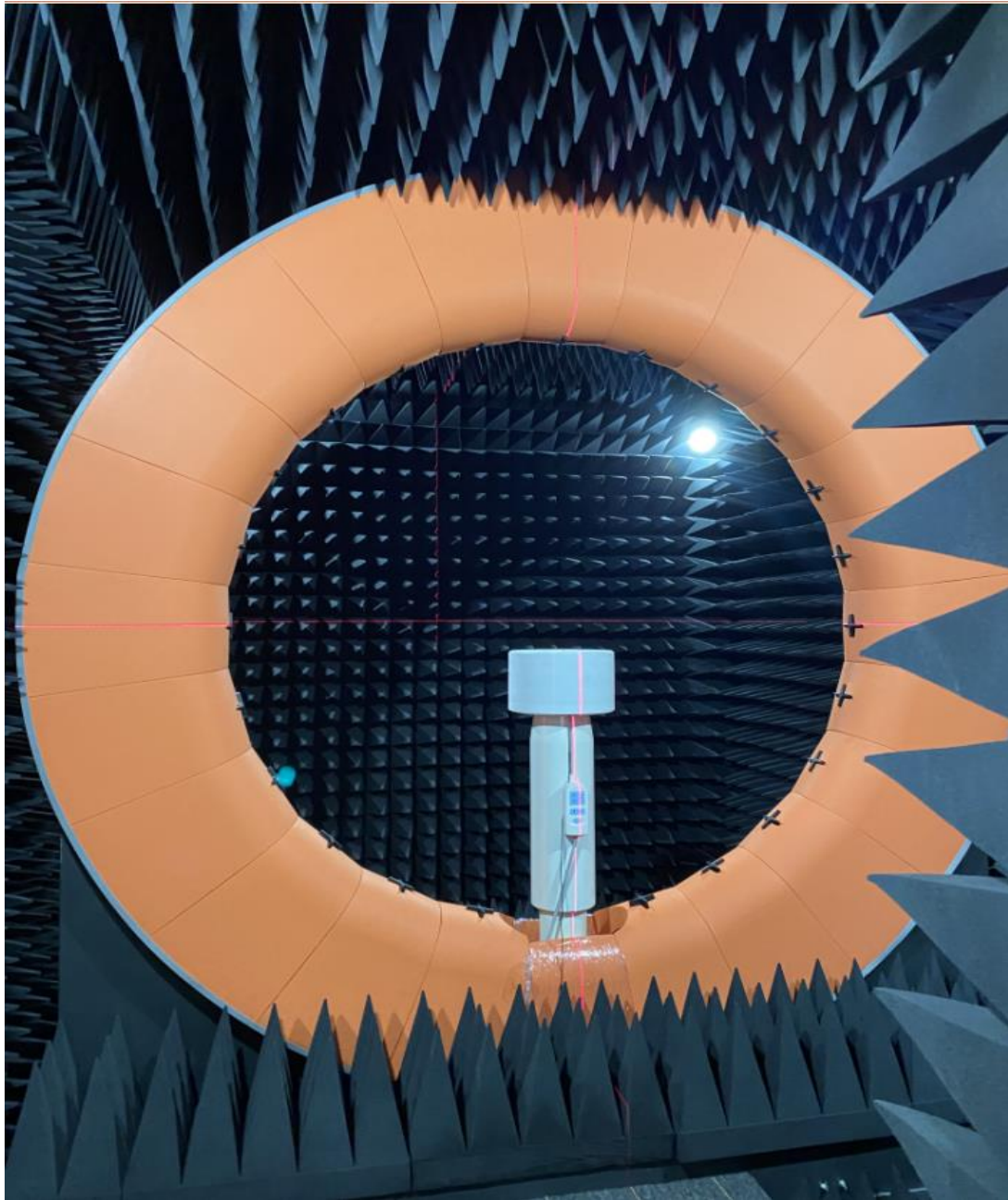


CMW 500 (2G/3G/4G Test Equipment)



SP9500 (5G Test Equipment)

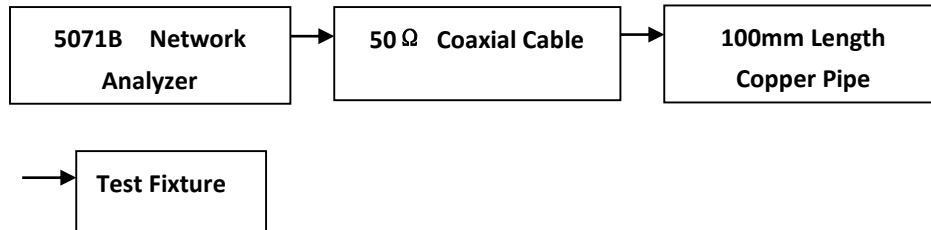
3. TestEnvironment



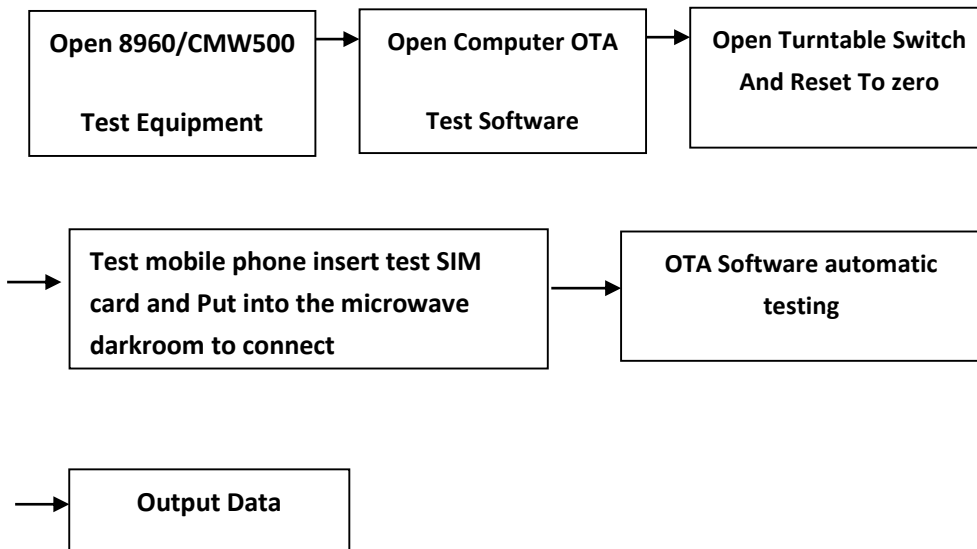
Microwave Anechoic Chamber

4. Test Steps

Passive VSWR/RL Test Steps:



Active TRP/TIS Test Steps:



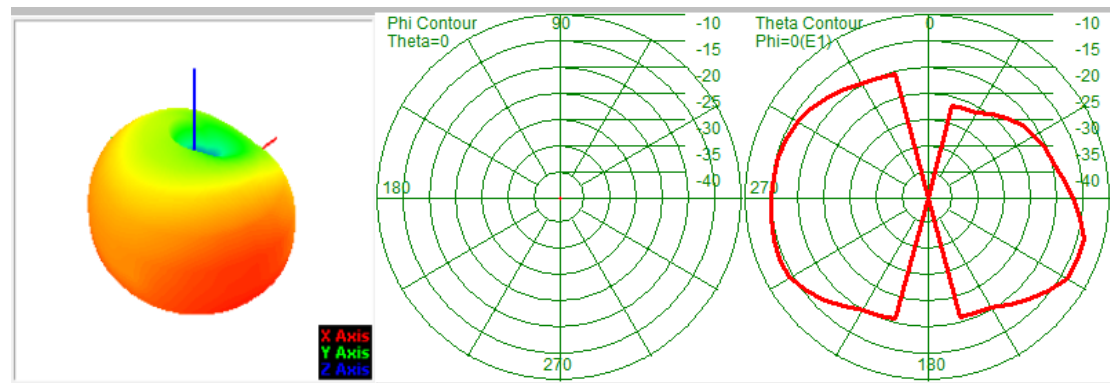
5. Antenna Gain

Band/Frequency	Max Gain	Band/Frequency	Max Gain
GSM850 (824Mhz-894Mhz)	-1.47	LTE-B19 (830Mhz-890Mhz)	-1.47
GSM900 (880Mhz-960Mhz)	-1.36	LTE-B20 (790Mhz-862Mhz)	-1.47
DCS1800 (1710Mhz-1880Mhz)	-0.59	LTE-B25 (1850Mhz-1990Mhz)	-0.41
PCS1900 (1850Mhz-1990Mhz)	-0.41	LTE-B26 (824Mhz-894Mhz)	-1.47
WCDMA1 (1920Mhz-2170Mhz)	-0.38	LTE-B28 (700Mhz-803Mhz)	-0.29
WCDMA2 (1850Mhz-1990Mhz)	-0.41	LTE-B66 (1710Mhz-2190Mhz)	-0.41
WCDMA4 (1710Mhz-2150Mhz)	-0.38	LTE-B38 (2570Mhz-2620Mhz)	0.25
WCDMA5 (824Mhz-894Mhz)	-1.47	LTE-B39 (1880Mhz-1920Mhz)	-0.41
WCDMA8 (880Mhz-960Mhz)	-1.36	LTE-B40 (2300Mhz-2400Mhz)	0.19
CDMA-BC0 (815Mhz-894Mhz)	-1.47	LTE-B41 (2500Mhz-2690Mhz)	0.25
CDMA-BC1 (1850Mhz-1990Mhz)	-0.38		
CDMA-BC10 (806Mhz-940Mhz)	-1.47		
LTE-B1 (1920Mhz-2170Mhz)	-0.38		
LTE-B2 (1850Mhz-1990Mhz)	-0.41		
LTE-B3 (1710Mhz-1880Mhz)	-0.59		
LTE-B4 (1710Mhz-2150Mhz)	-0.38		
LTE-B5 (824Mhz-894Mhz)	-1.47		
LTE-B7 (2500Mhz-2690Mhz)	0.25	Bluetooth (2400Mhz-2480Mhz)	1.35
LTE-B8 (880Mhz-960Mhz)	-1.36	WIFI-2.4G (2410Mhz-2480Mhz)	1.35
LTE-B12 (700Mhz-750Mhz)	-0.29	WIFI-5.1G (4915Mhz-5045Mhz)	-0.17

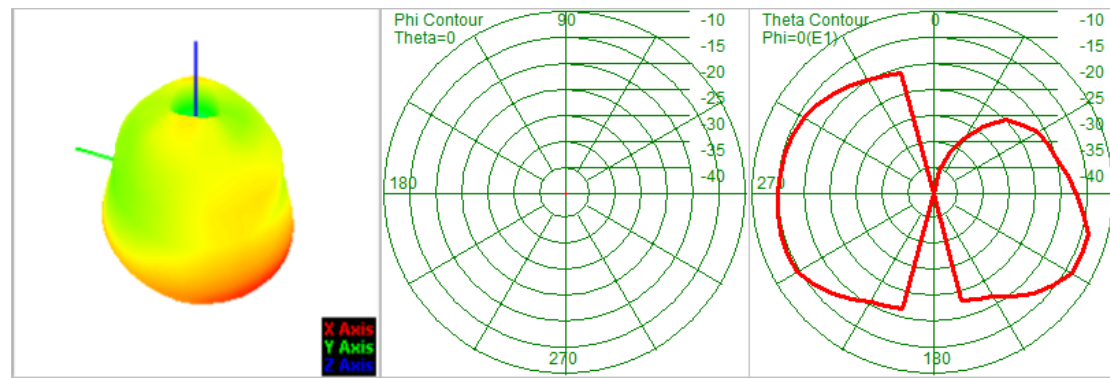
LTE-B13 (746Mhz-786Mhz)	-0.29	WIFI-5.8G (5170Mhz-5800Mhz)	-1.98
LTE-B17 (700Mhz-750Mhz)	-0.29	GPS (1575.42Mhz)	1.72
LTE-B18 (815Mhz-875Mhz)	-1.47		

6.3D Lobe Diagram

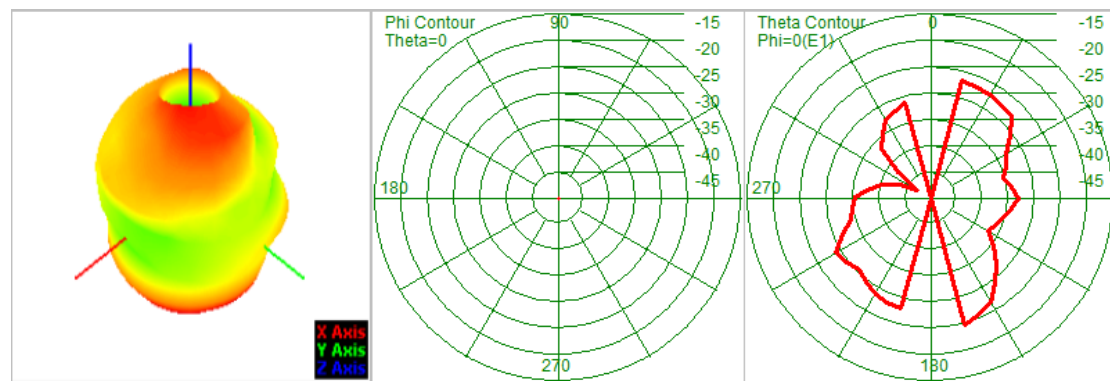
GSM850



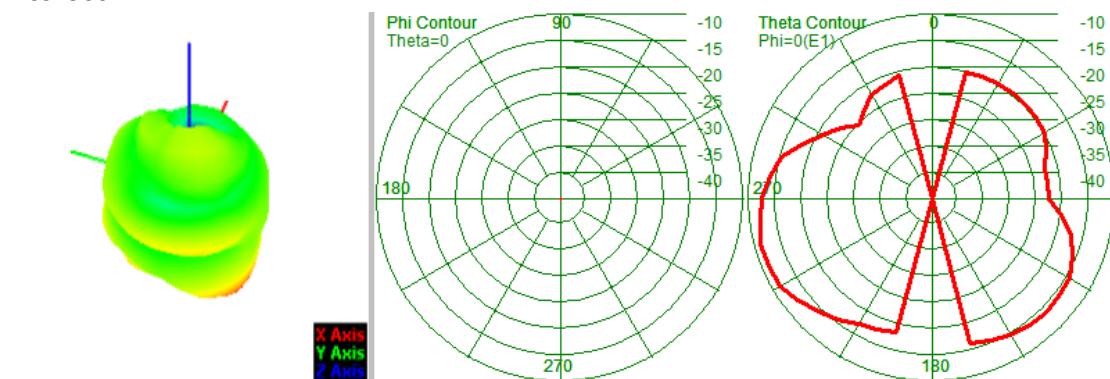
GSM900



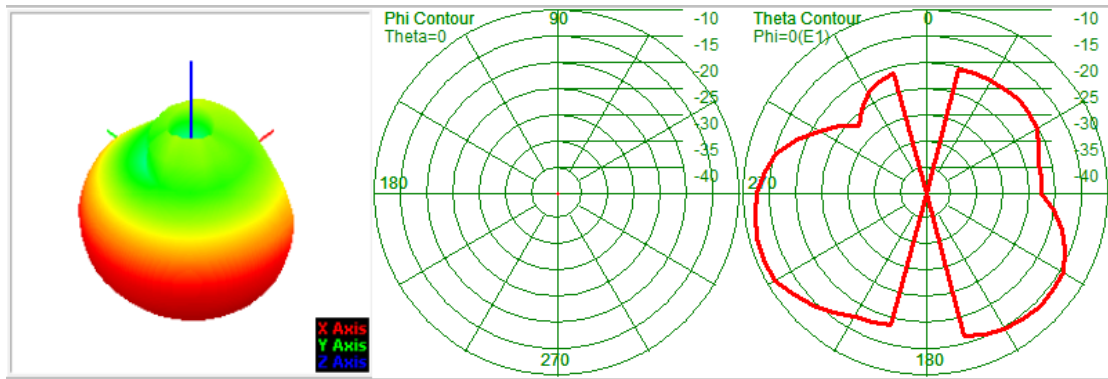
DSC1800



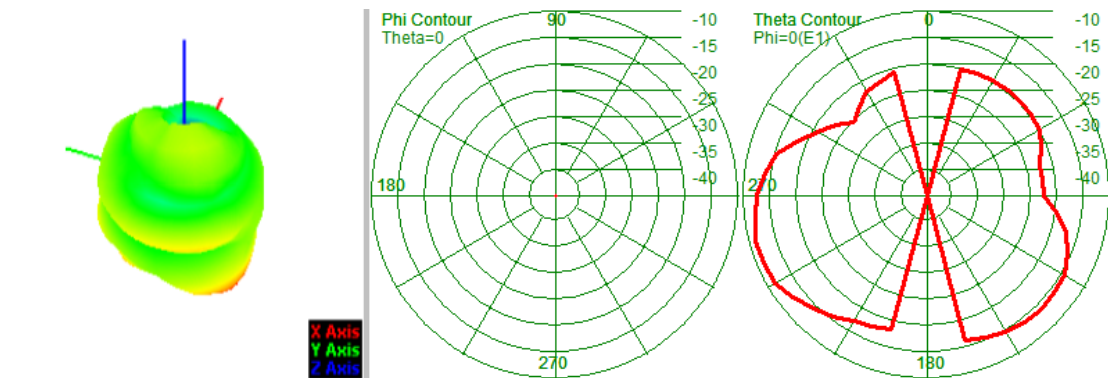
PCS1900



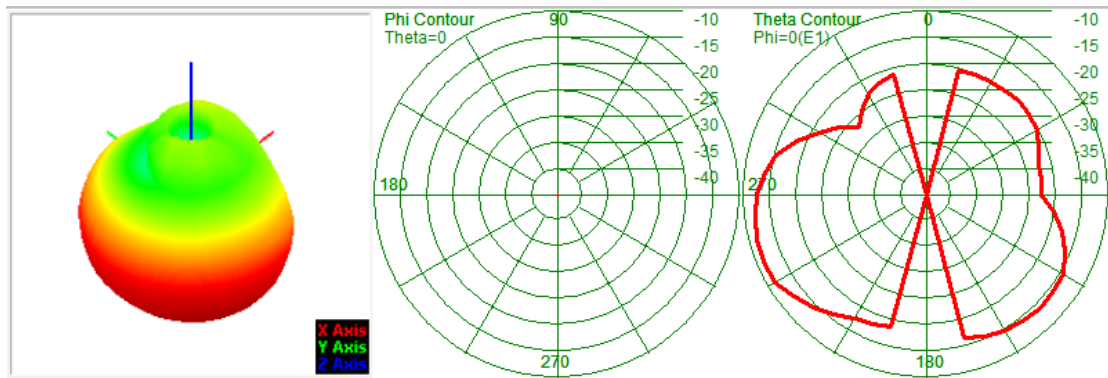
W1



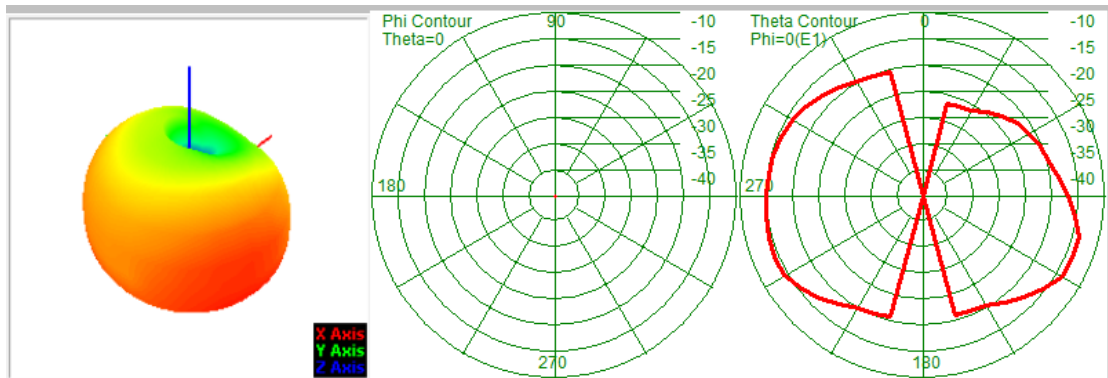
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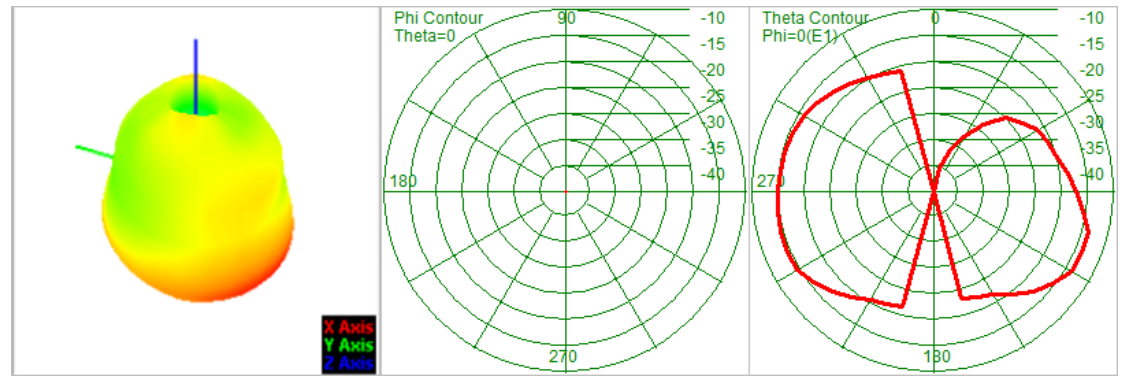
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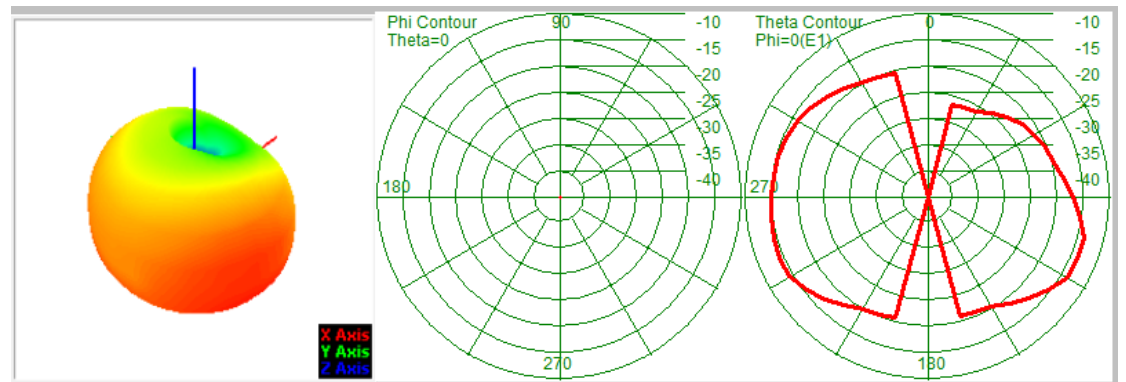
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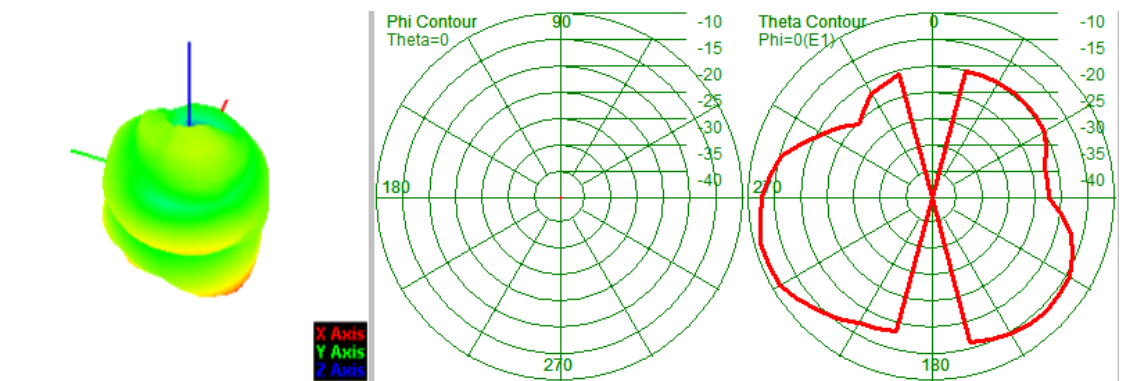
W8



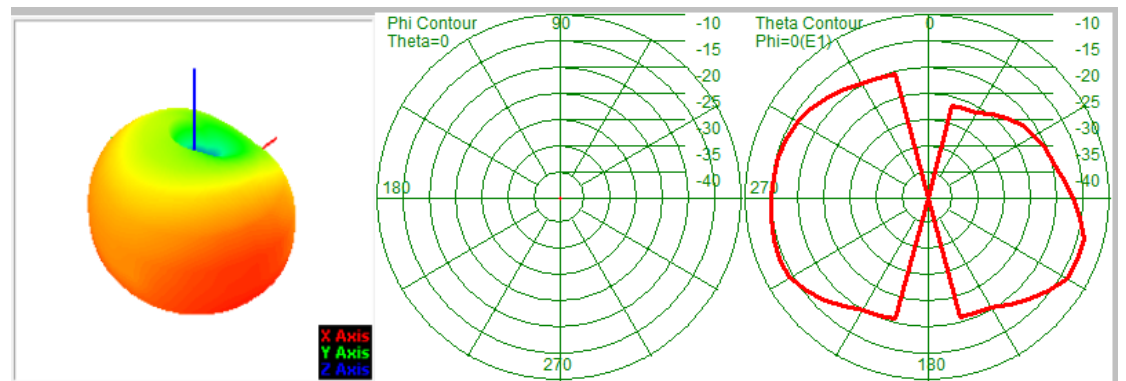
CDMA-BC0



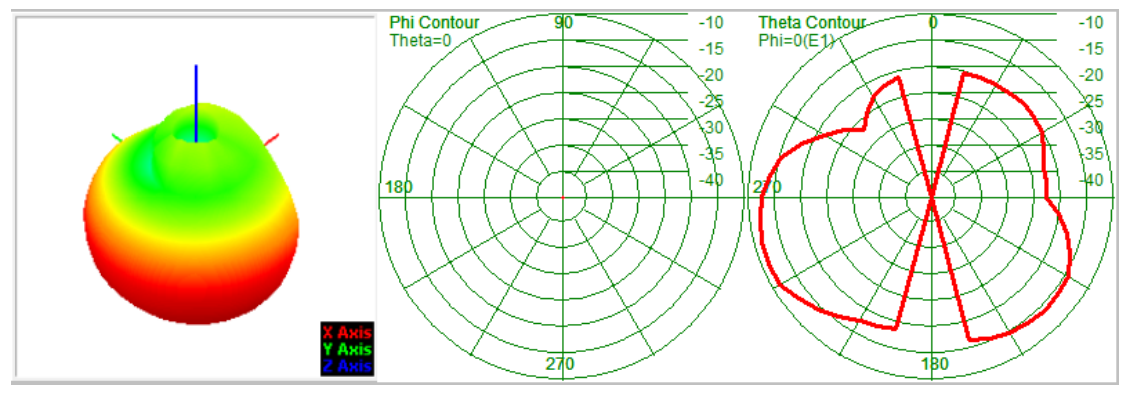
CDMA-BC1



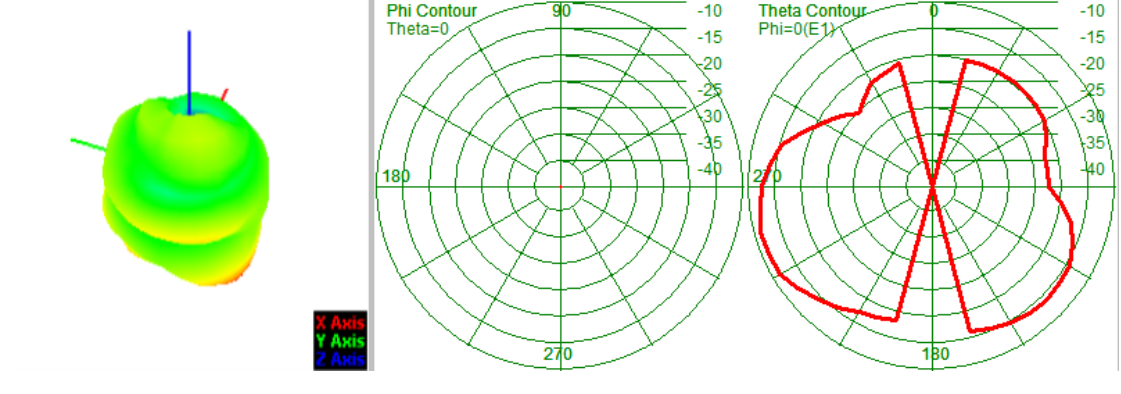
CDMA-BC10



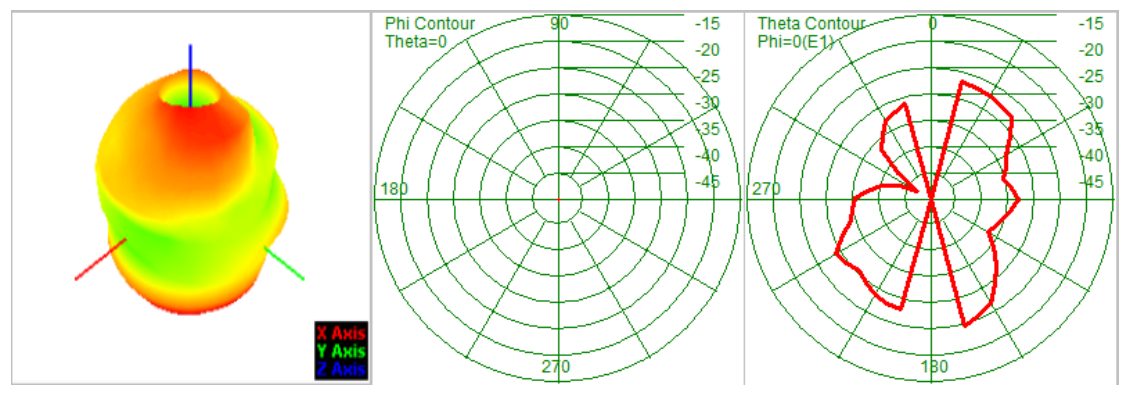
FDD-B1



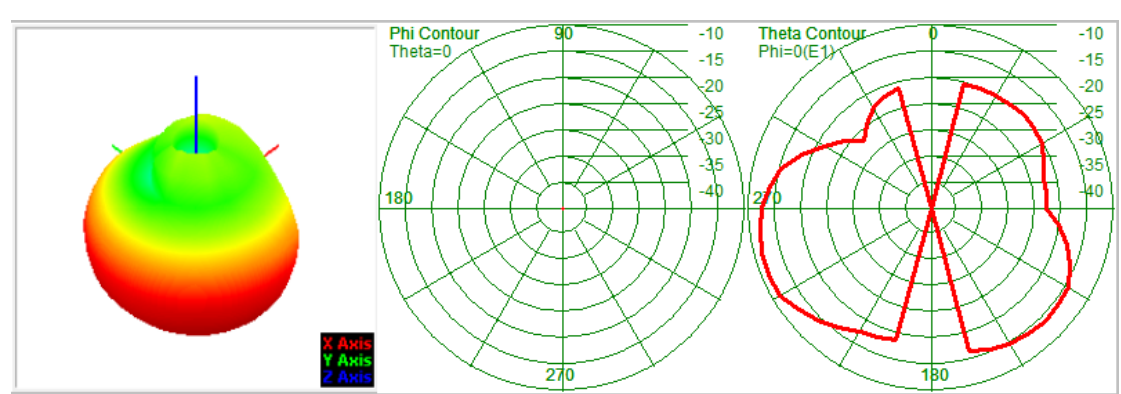
FDD-B2



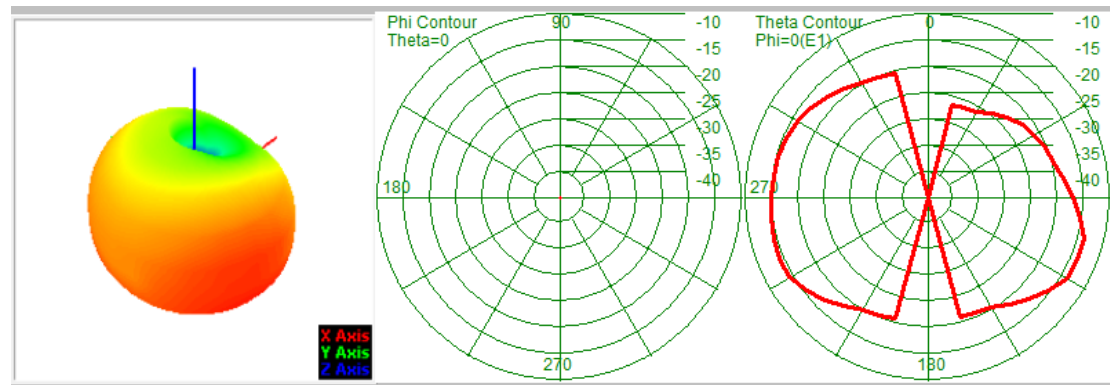
FDD-B3



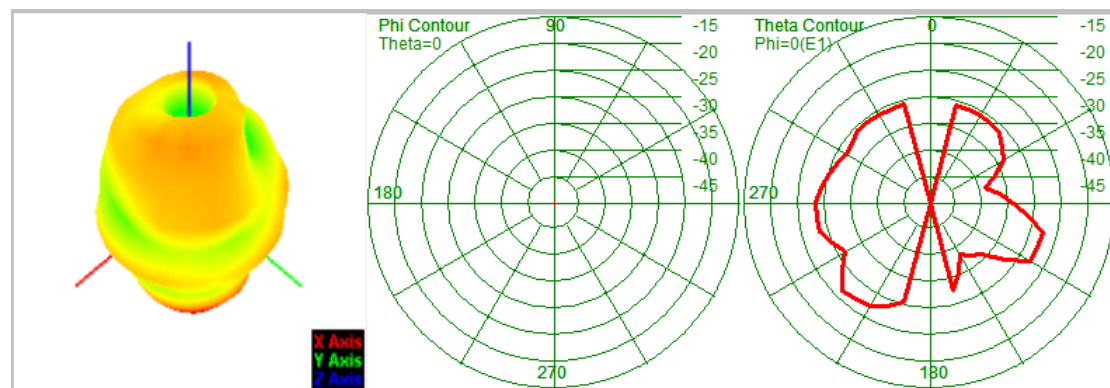
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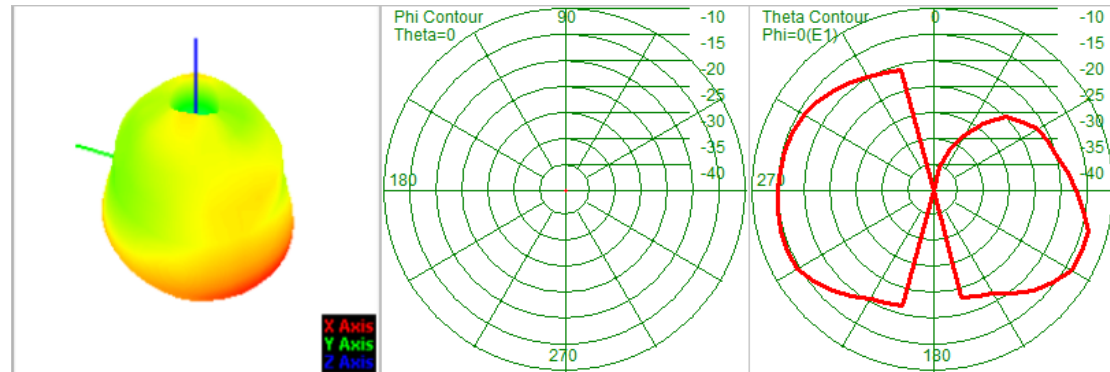
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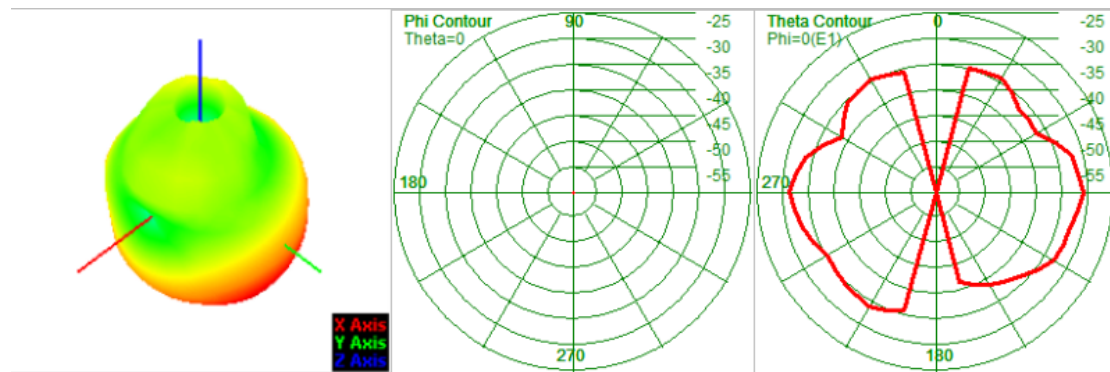
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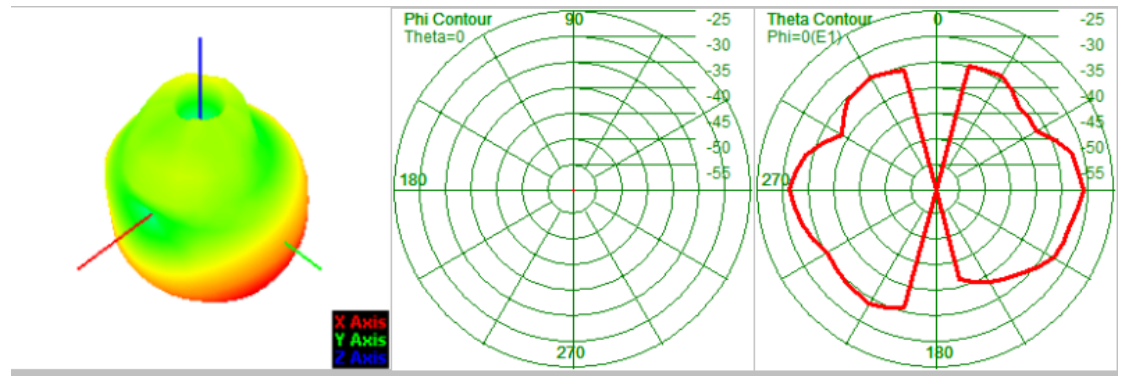
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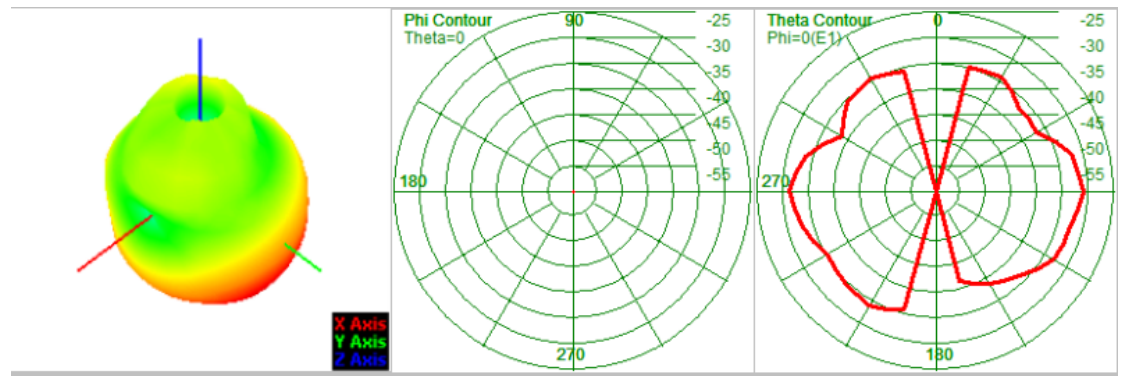
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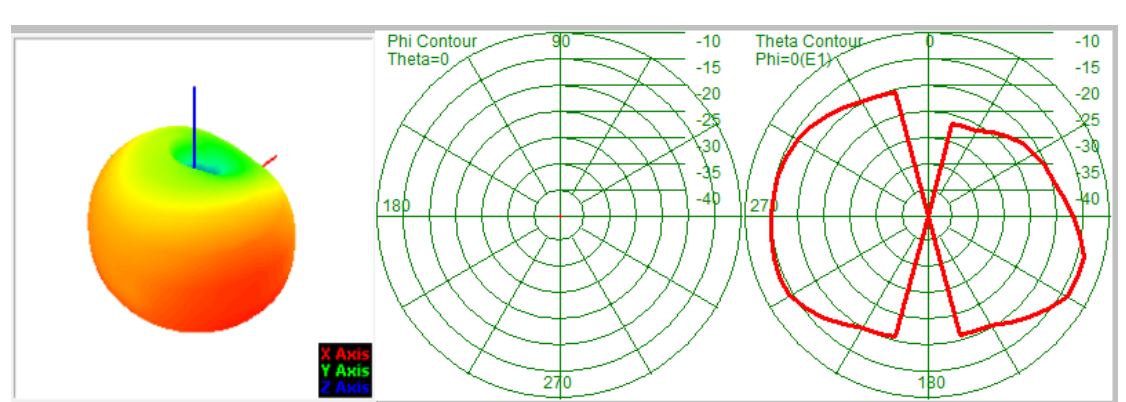
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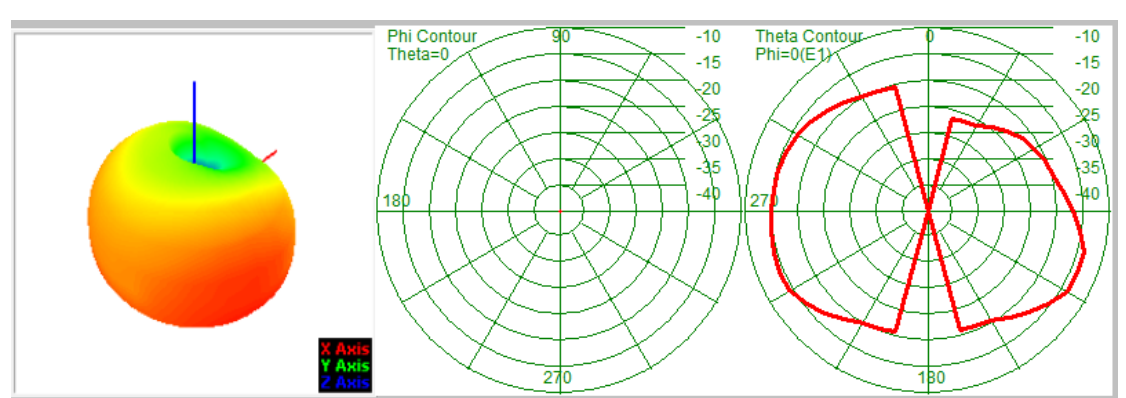
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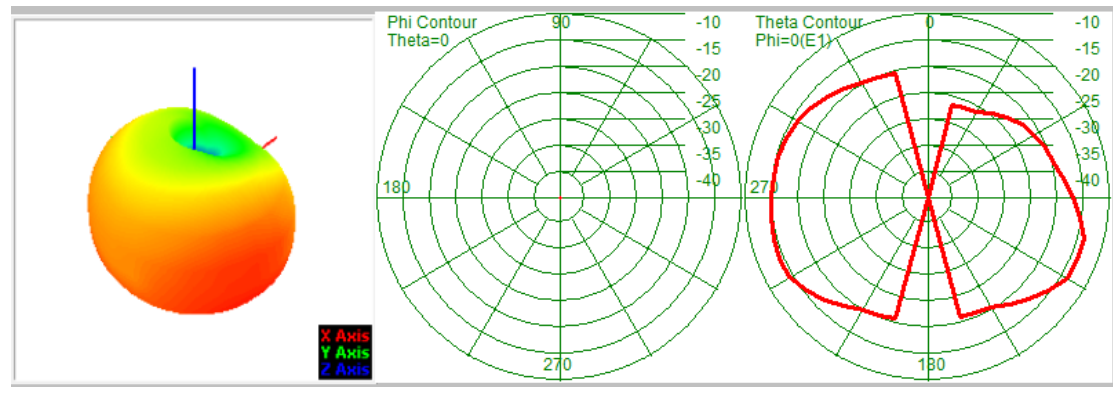
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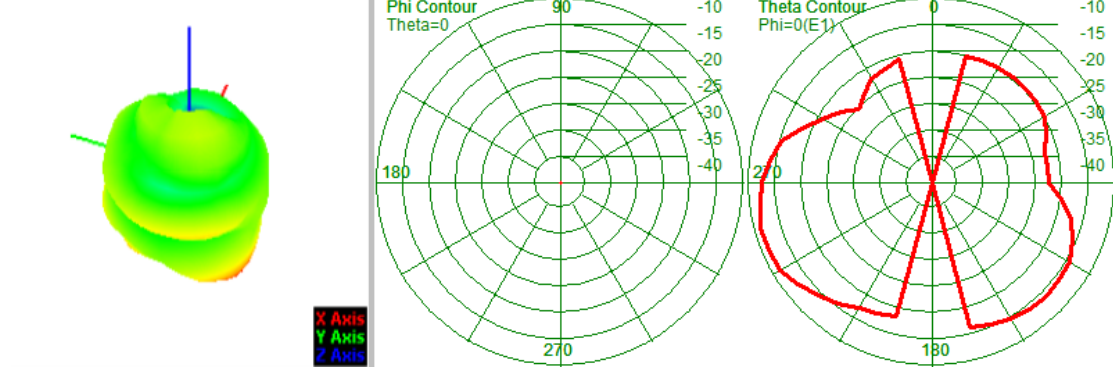
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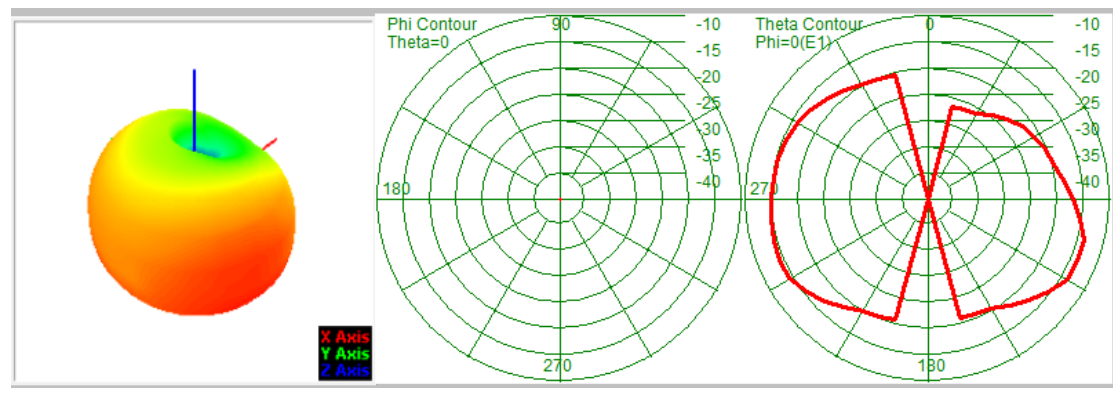
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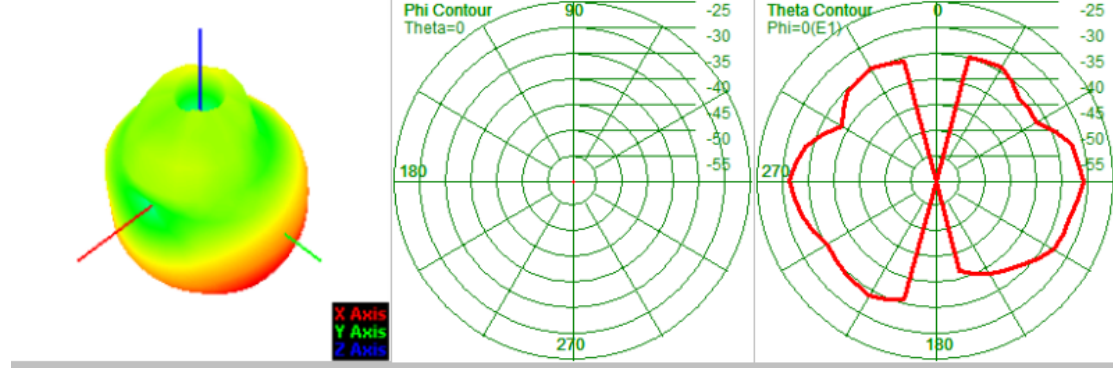
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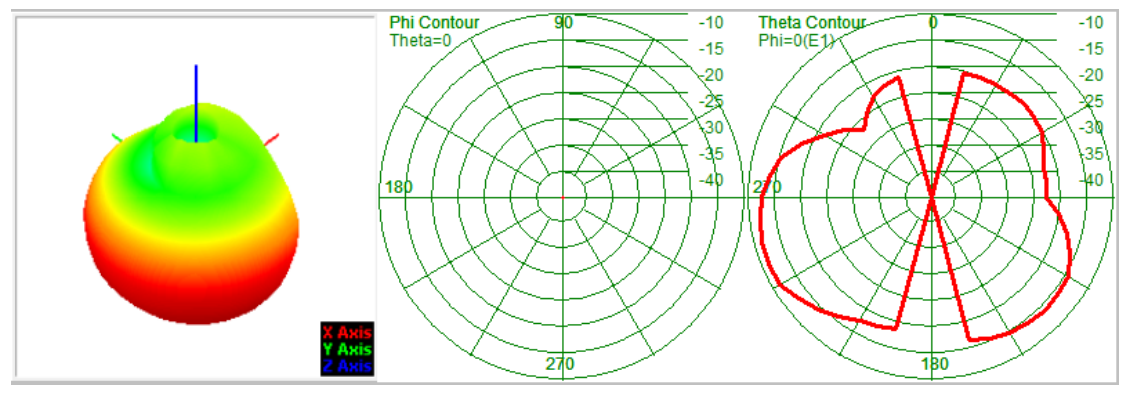
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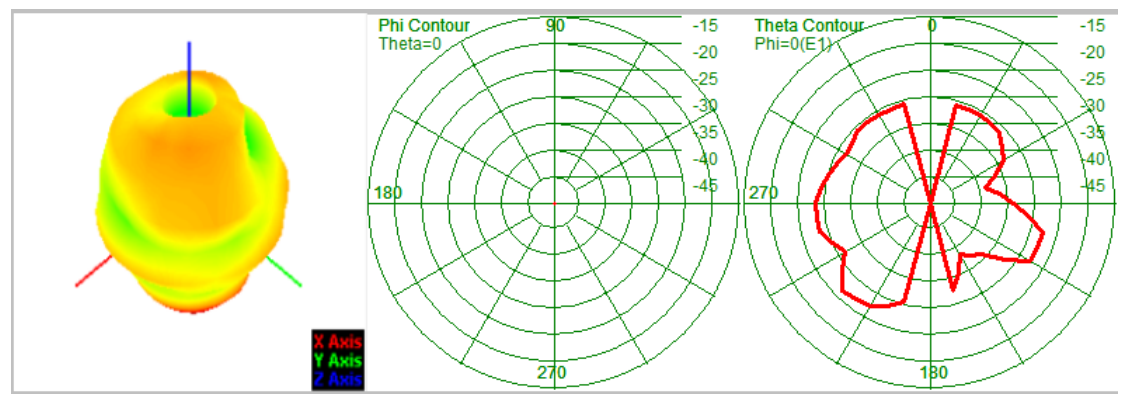
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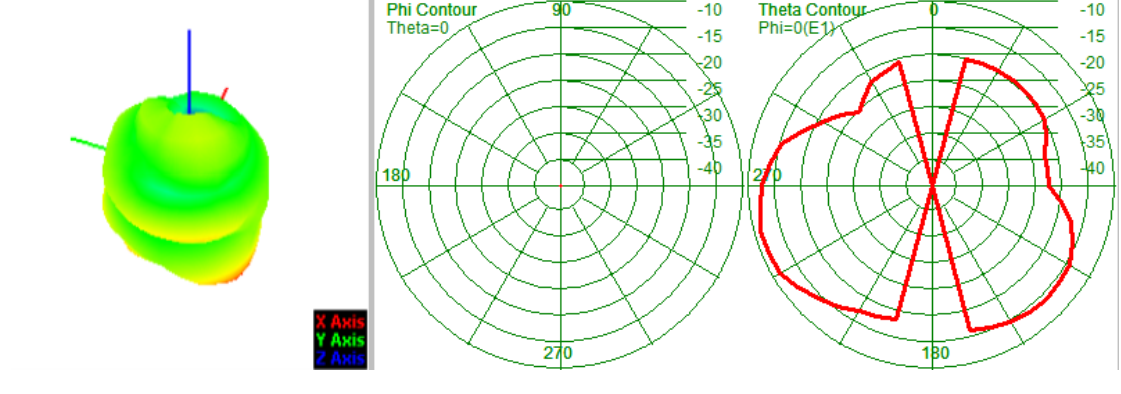
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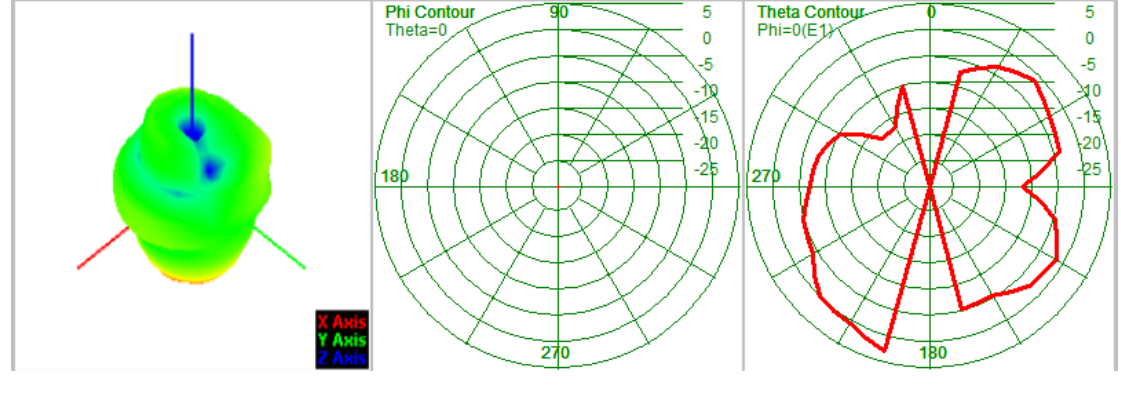
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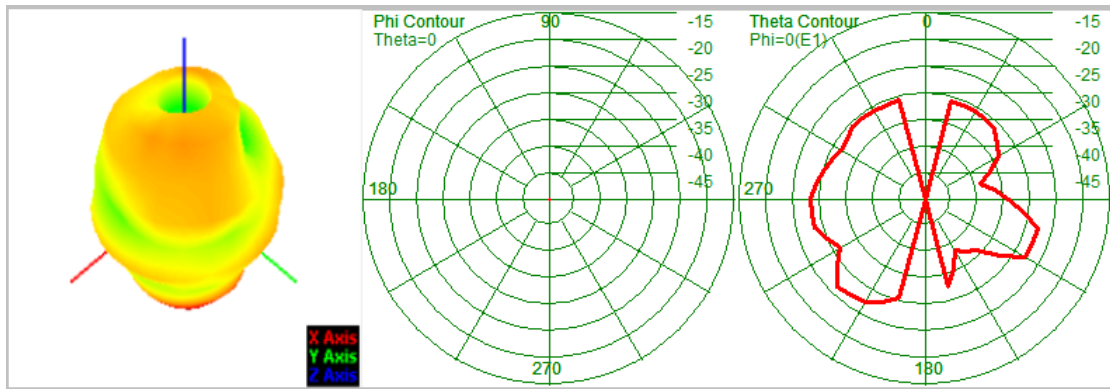
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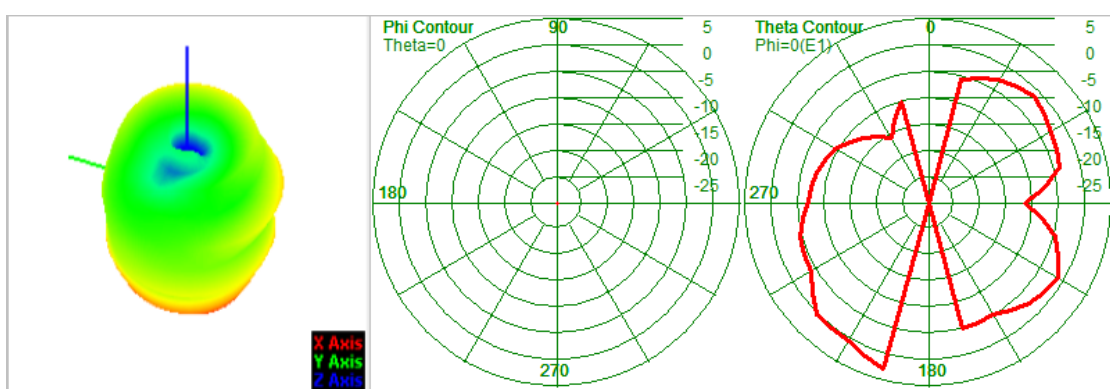
TDD-B40



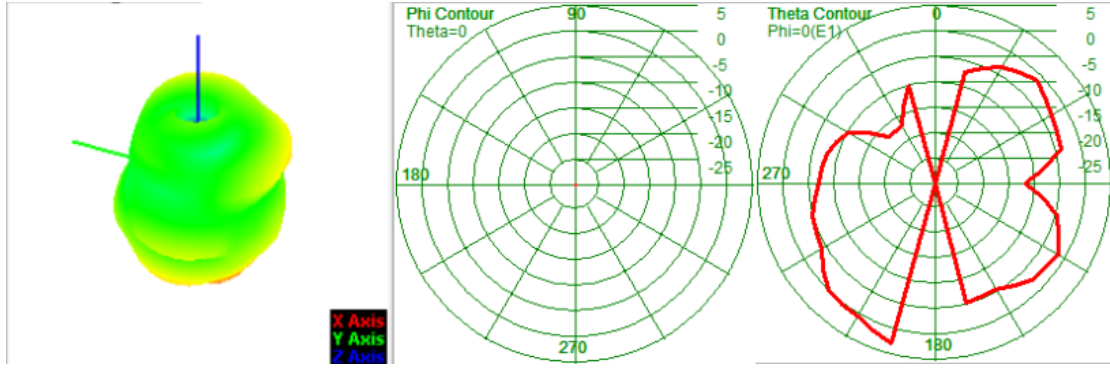
TDD-B41



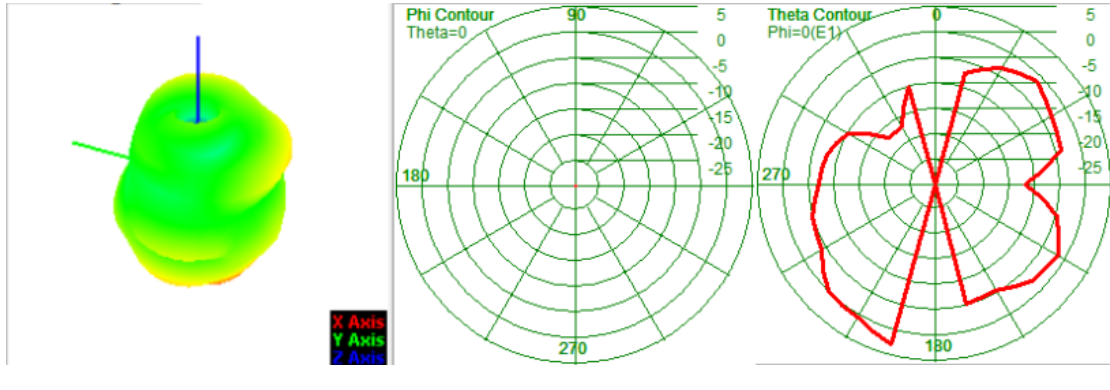
GPS



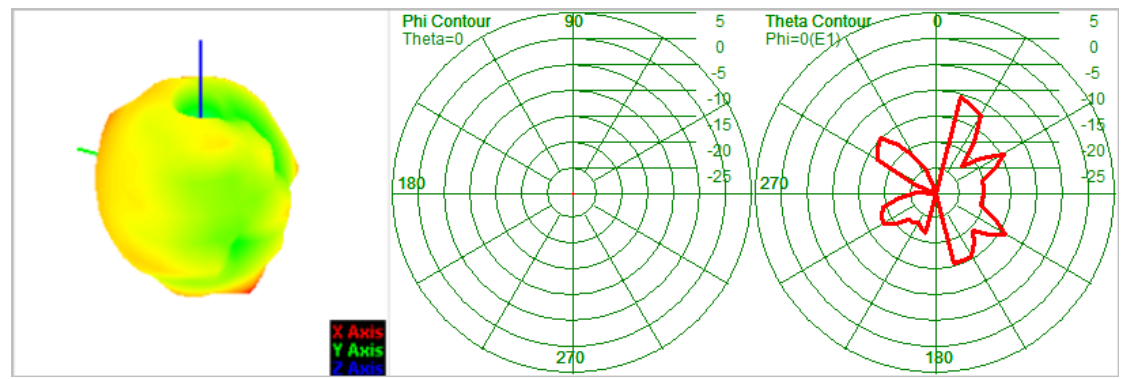
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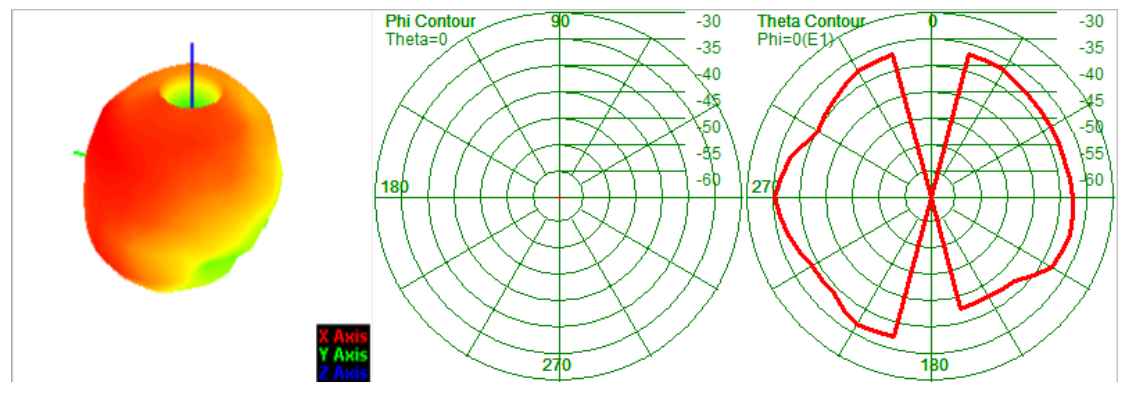
2.4G-WIFI



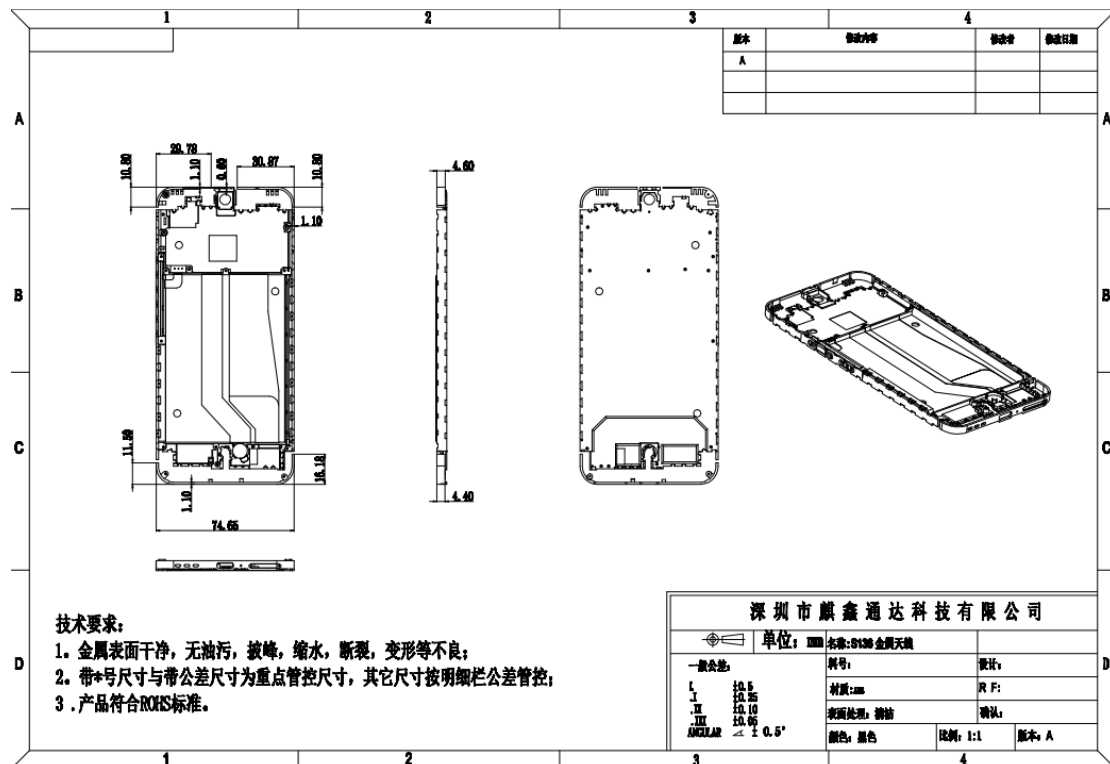
5.1G-WIFI



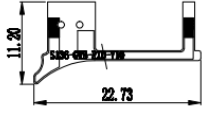
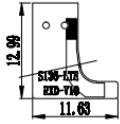
5.8G-WIFI



7. Antenna size




1	2	3	4
		修改内容	
		修改者	修改日期

NOTES:

1. 斜线填充部位为电气走线覆铜; 2. 红色为外形轮廓, 注意边缘尺寸
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-9471E进口胶; 5. 金手指表面镀金/镀镍 $3\sim 5\mu$;
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;

深圳市麒鑫通达科技有限公司			
 单位: mm 名称: S136 PFC			
一般公差:	± 0.5	材料: PI	设计:
.I	± 0.25	表面处理:	审核:
.II	± 0.05	颜色: 哑黑色/哑白色	确认:
.III	\pm	比例: 1:1	版本: A
ANGULAR	$\leq \pm 0.5^\circ$		