

Shenzhen Yunzhishang Electronics Co., Ltd.

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Antenna Specifications

Client: Veribit

Project: G2803- Pilot Unit

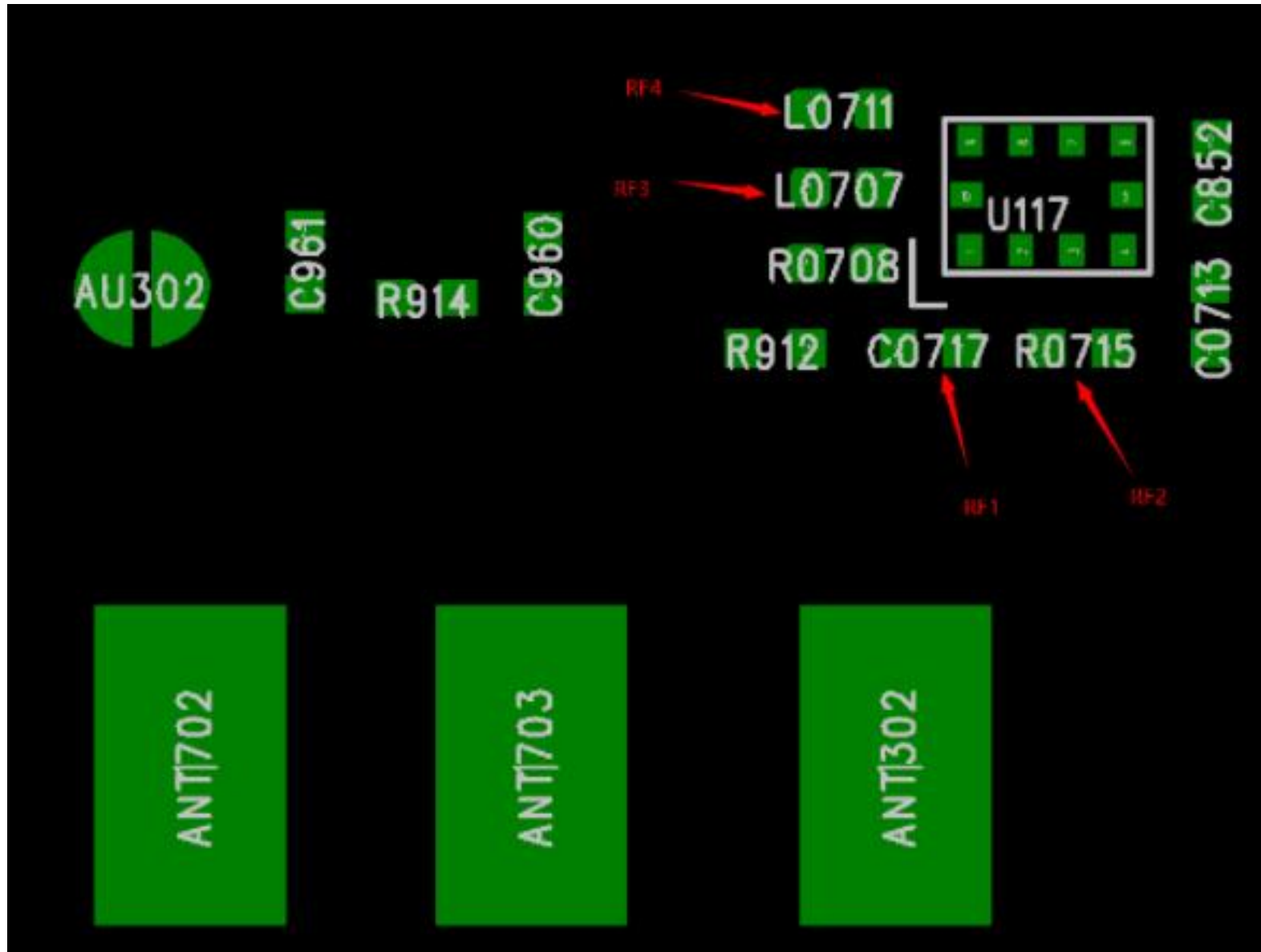
Model: G2803

RF: 许龙

NO.: 15915343126

Report time: 20260310

G2803 Project Matching



G2803 Matching

C960 0.75PF

R914 3.9NH

C961 10NH

R912 NC

R0708 0ohm

C0717 0ohm

R0715 1NH

L0707 10NH

L0711 15NH

Other parts remain
unchanged from PCBA

G2803 Project switch matching

G2803 RF switch frequency band splitting is as follows::			
frequency	Switch channel	matching	note
G2/3/8/W1/8/FDD1/2/3/4/8/66/	RF1 (C0717)	0ohm	
G5/W5/FDD5/20	RF2 (R0715)	1NH	
FDD12/13/17	RF3 (L0707)	10NH	
FDD71	RF4 (L0711)	15NH	
	R0708	0ohm	
	R912	NC	

● Project adjust overview

model	sample						
Antenna overview	Main antenna	frequently		Antenna status	Antenna type	Design area	Matching Modification
		2G	G2/3/5/8/W1/5/8	Gold Plating FPC	PIFA	Phone top	Modified
		3G					
		4G	1/2/3/4/5/8/12/13/17/20/66				
		5G	N/A				
	Other antenna	BT/WIFI	2.4G/5.0G	Gold Plating FPC	PIFA	Phone top	
		GPS	1575.42MHz				
		Diversity	N/A	Gold Plating FPC	PIFA	Phone top	
Sample status	G2803 debugging device		Environmental Treatment				

	Channel	TRP（dBm）	TIS（dBm）		Channel	TRP（dBm）	TIS（dBm）		Channel	TRP（dBm）	TIS（dBm）
FDD B1	18050	18.15		FDD B17	23790	15.74		GSM 900	1	27.35	
	18300	18.14			23790	15.86			62	27.24	
	18550	18.05	-88.51		23790	16.41	-88.63		124	27.16	-102.8
FDD B2	18650	17.65		FDD B20	24200	17.41		DCS1800	512	24.54	
	18900	17.72			24300	17.53			698	24.82	
	19150	17.84	-88.54		24400	17.67	-90.12		885	24.87	-103.7
FDD B3	19250	16.12		FDD B66	132022	17.32		PCS 1900	512	25.24	
	19575	17.24			132322	17.45			661	25.13	
	19900	17.45	-88.12		132622	17.61	-88.87		810	25.27	-103.4
FDD B4	20000	15.71		FDD B71	133172						
	20175	16.56			133297						
	20350	16.03	-88.73		133422						
FDD B5	20450	17.14		WCDMA B1	10562	17.86					
	20525	17.45			10700	17.54					
	20600	17.36	-90.36		10838	17.35	-103.1				
FDD B8	21500	17.74		WCDMA B5	4132	16.41					
	21625	17.56			4183	17.26					
	21750	17.24	-90.34		4233	17.48	-103.4				
FDD B12	23060	15.46		WCDMA B8	2712	17.68					
	23095	15.75			2787	17.51					
	23130	16.7	-88.42		2863	17.23	-102.1				
FDD B13				GSM 850	128	25.58					
	23230	16.12	-88.67		190	26.45					
					251	26.87	-103.7				

WIFI test



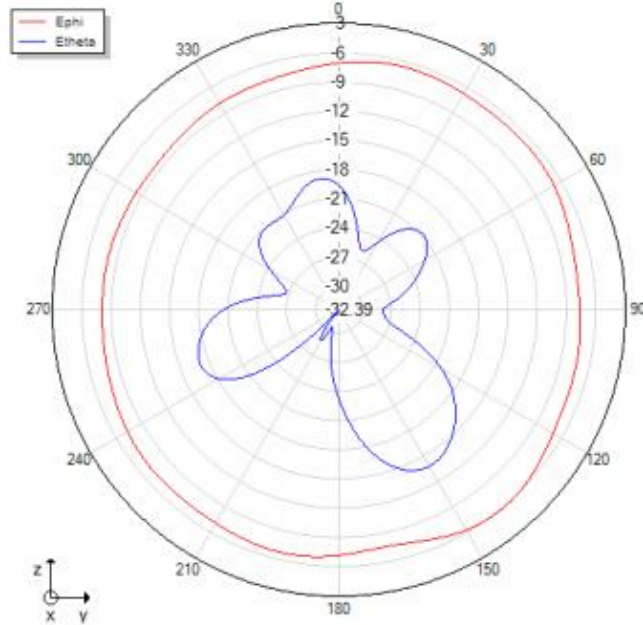
Antenna

Gain

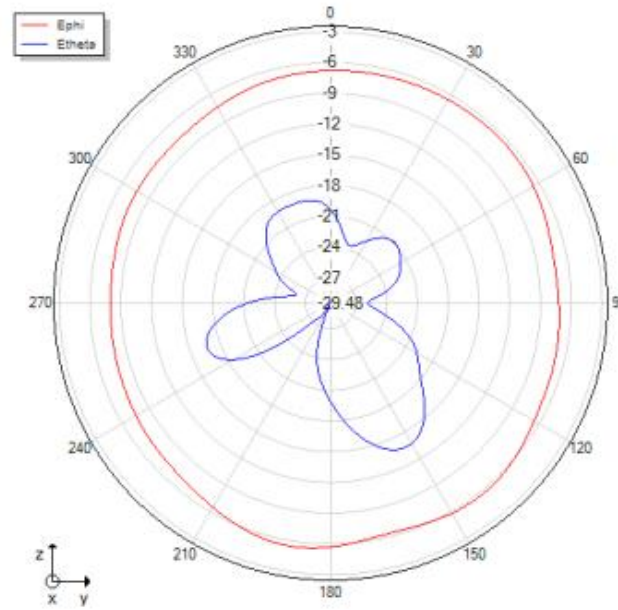
Band	Mode	Frequency	Antenna Max Gain (dBi)	
GSM-BAND	Band2	1850-199	-0.27	dBi
	Band3	1710-1880	-0.23	
	Band5	824-894	-0.49	
	Band8	880-960	-0.47	
WCDMA-BAND	Band1	1920-2170	-0.31	dBi
	Band5	824-894	-0.49	
	Band8	880-960	-0.47	
FDD-BAND	Band1	1920-2170	-0.31	dBi
	Band2	1850-1990	-0.27	
	Band3	1710-1880	-0.23	
	Band4	1710-2150	-0.25	
	Band5	824-894	-0.49	
	Band8	880-960	-0.47	
	Band12	704-740	-0.64	
	Band13	746-787	-0.61	
	Band17	704-746	-0.58	
	Band20	791-862	-0.49	
	Band66	1710-2200	-0.25	
WIFI-2.4G	2.4G	2401-2495	1.24	dBi
BT	2.4G	2401-2495	1.24	dBi

Lobe diagram

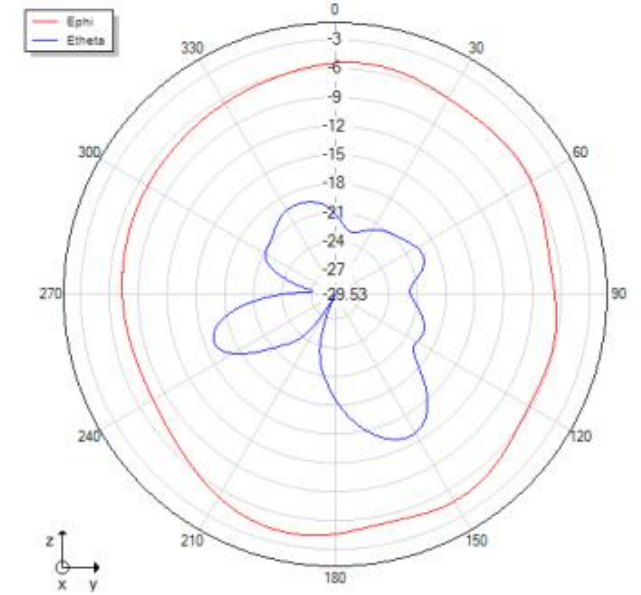
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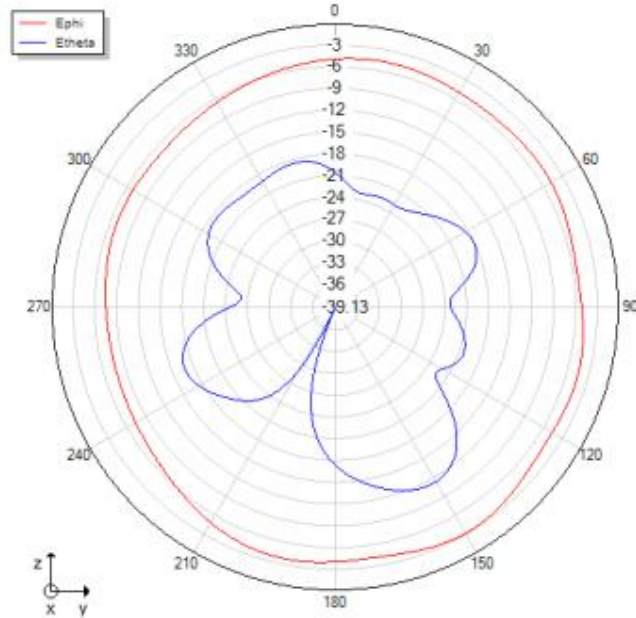
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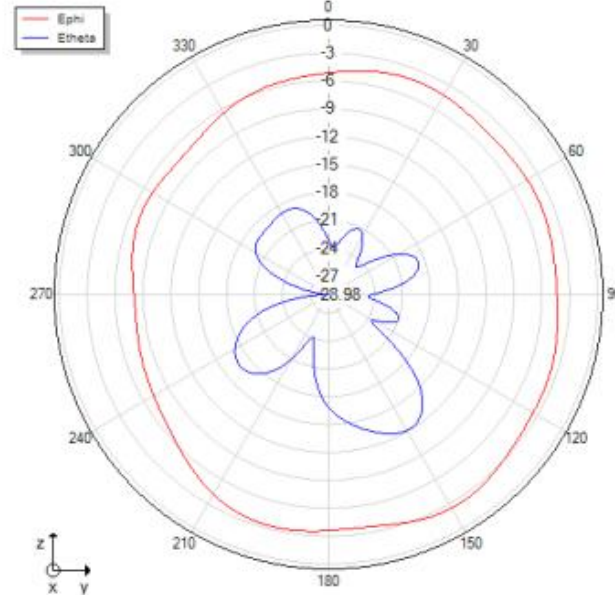
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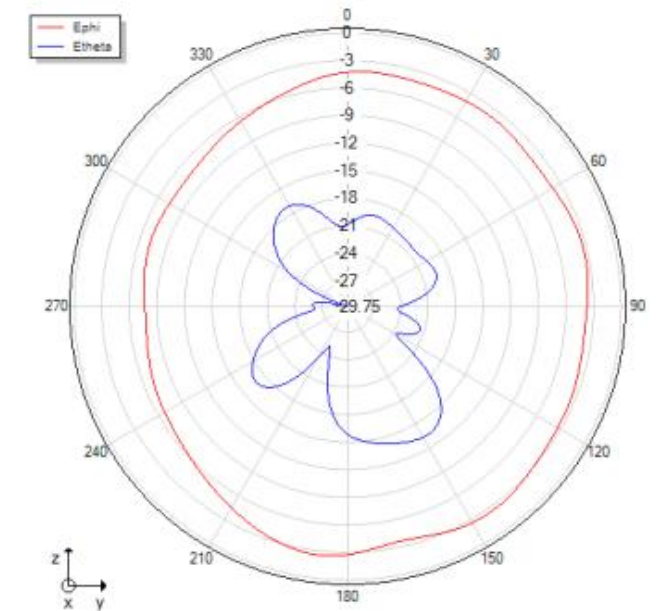
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Phi=90 freq=780MHz

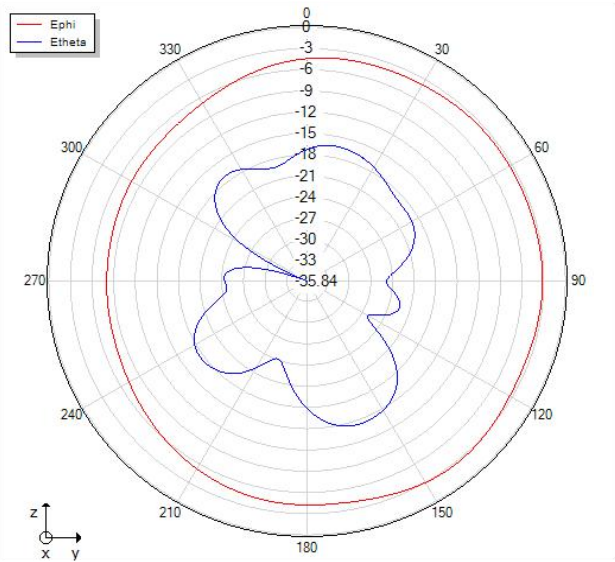


Phi=90 freq=800MHz

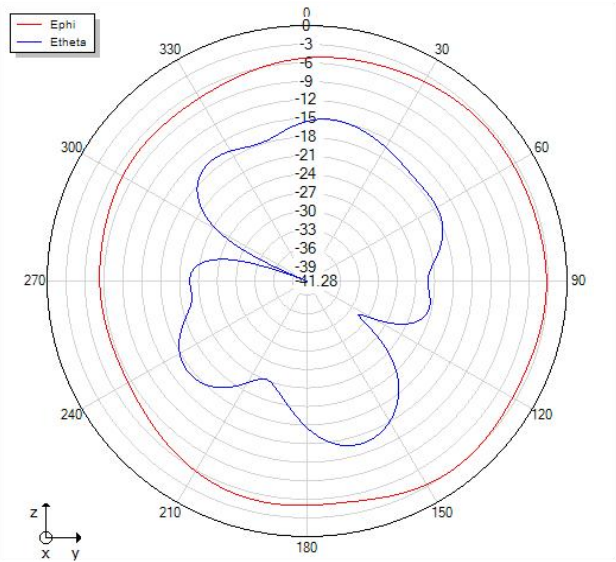


Lobe diagram

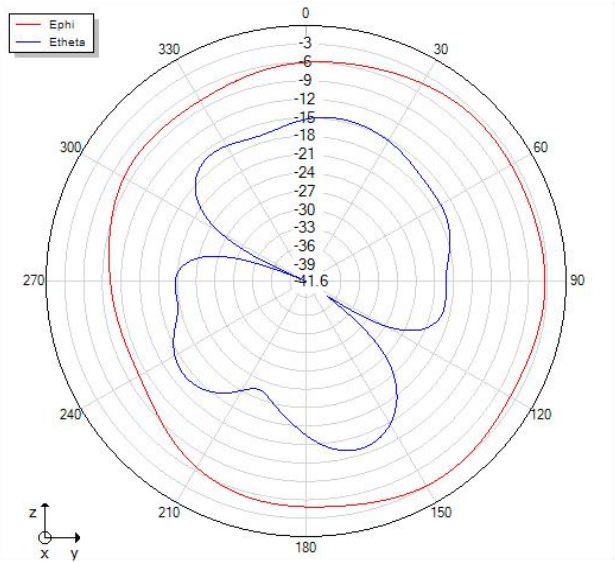
Phi=90 freq=820MHz



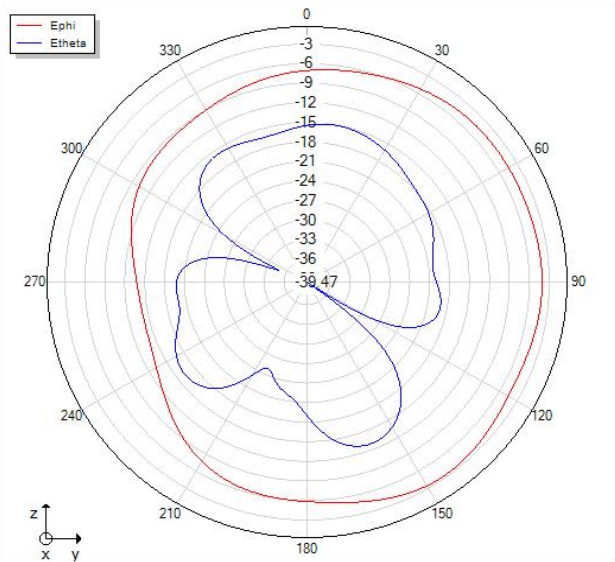
Phi=90 freq=840MHz



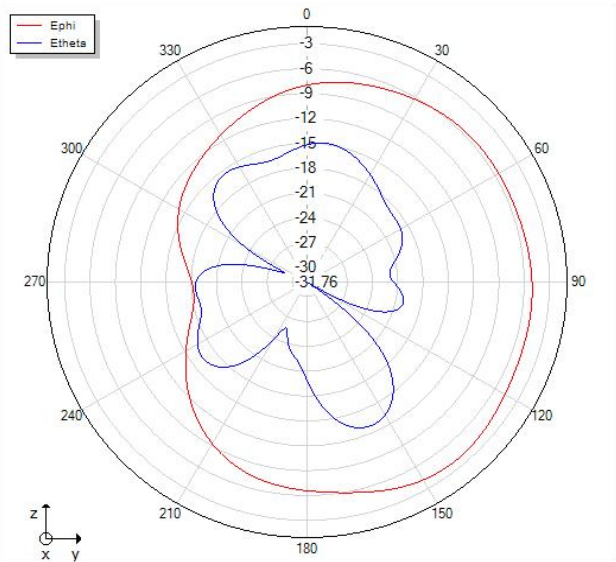
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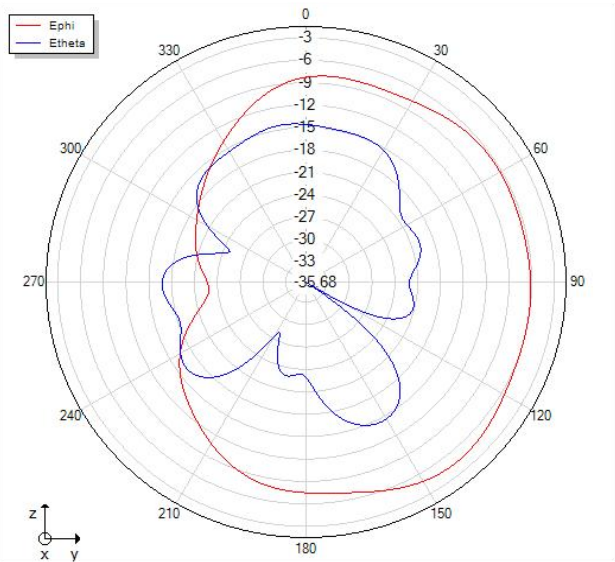
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Phi=90 freq=900MHz

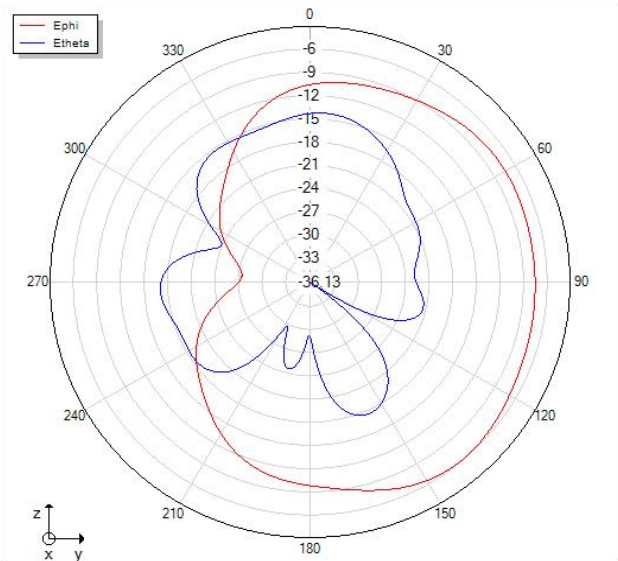


Phi=90 freq=920MHz

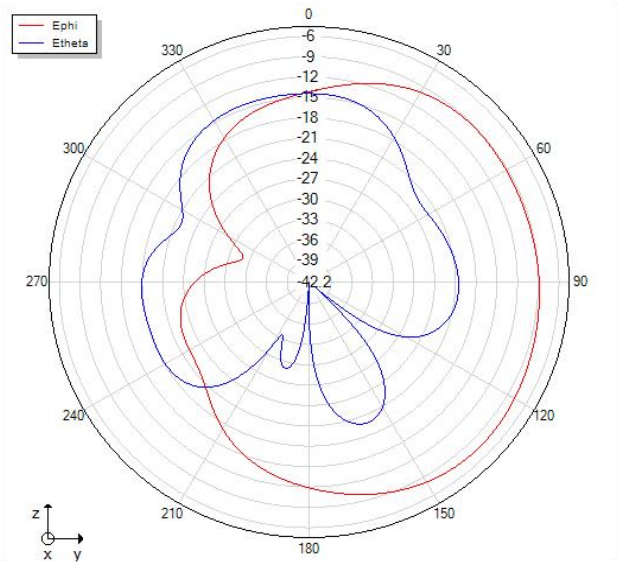


Lobe diagram

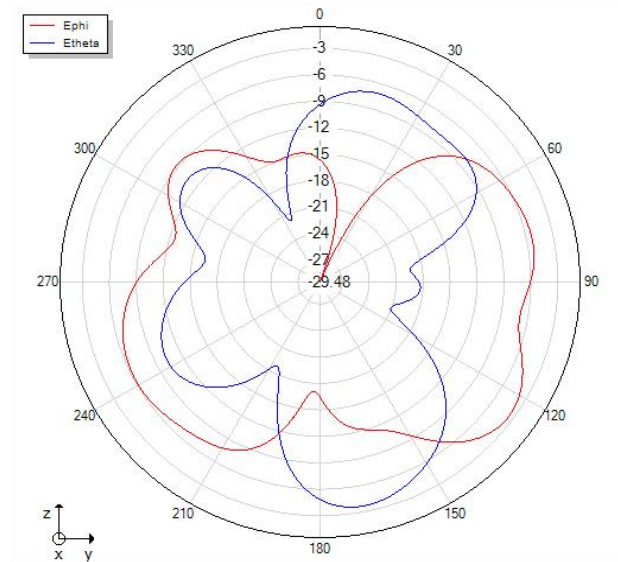
Phi=90 freq=940MHz



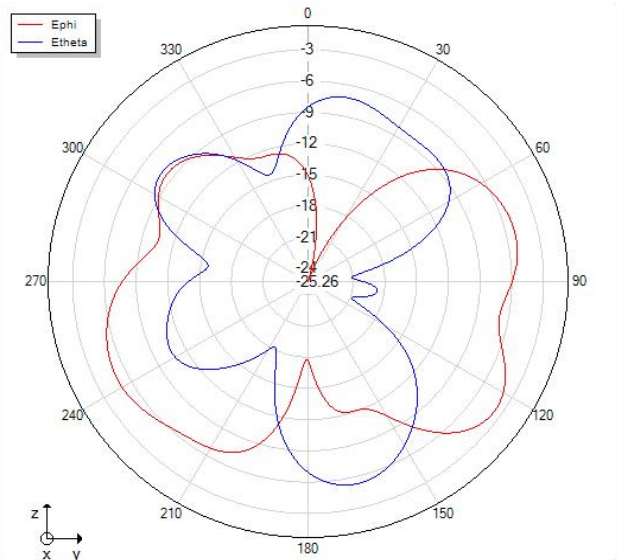
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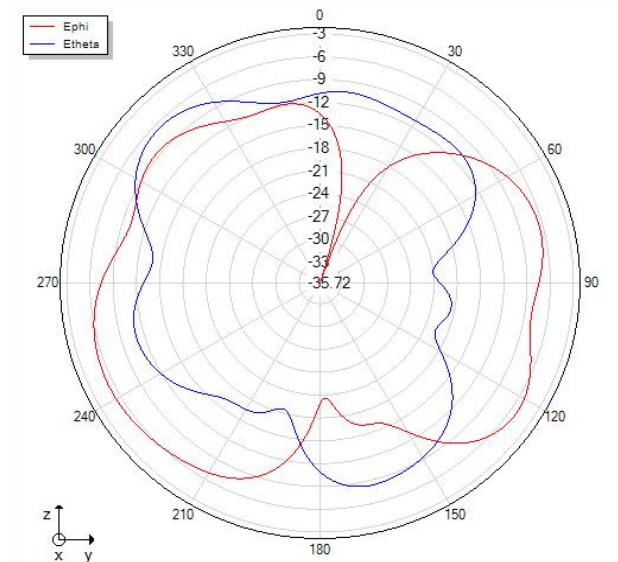
Phi=90 freq=1700MHz



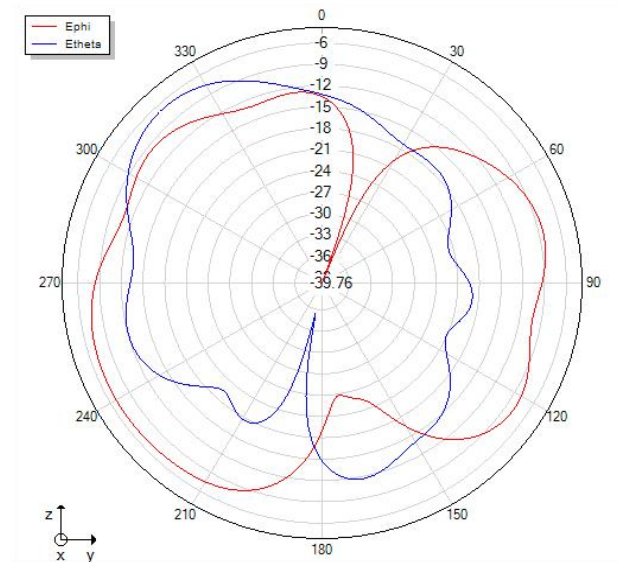
Phi=90 freq=1720MHz



Phi=90 freq=1740MHz

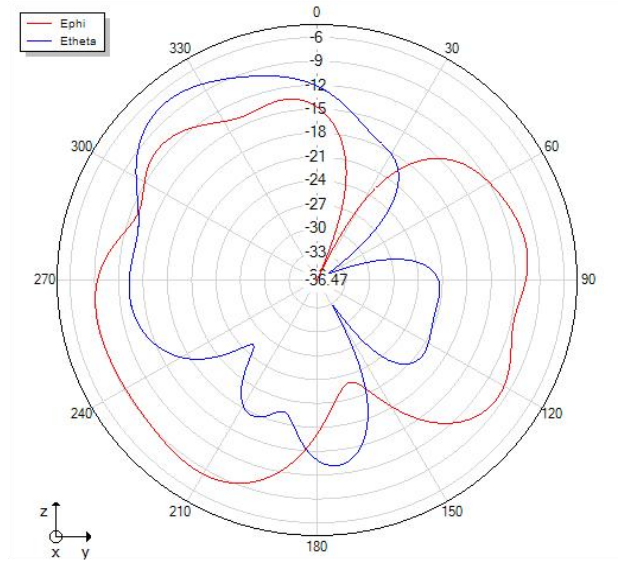


Phi=90 freq=1760MHz

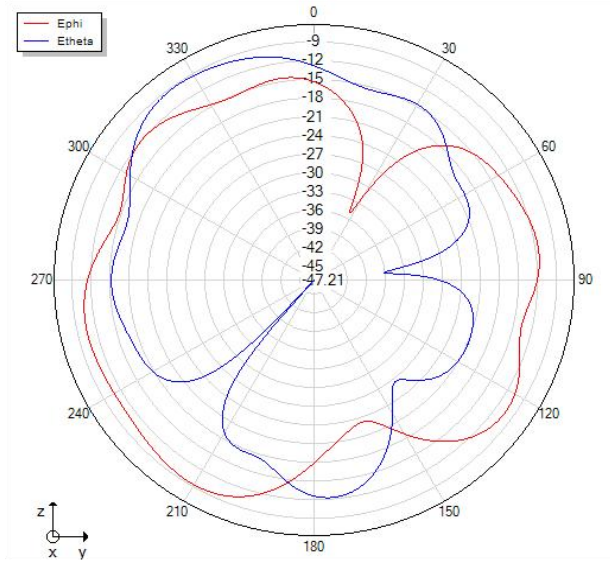


Lobe diagram

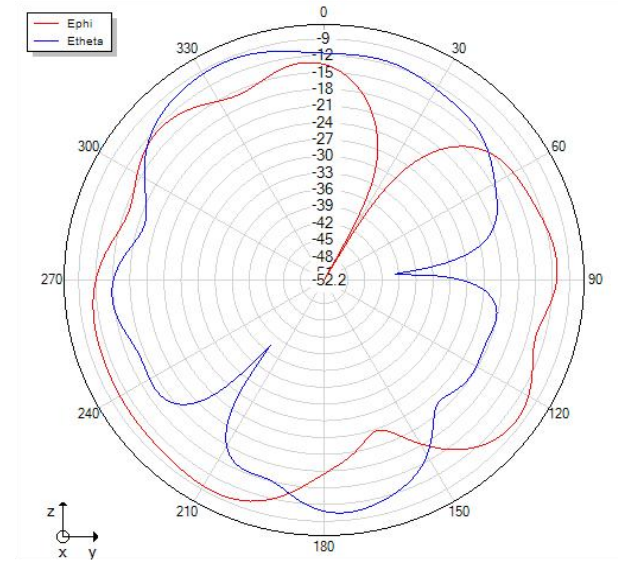
Phi=90 freq=1780MHz



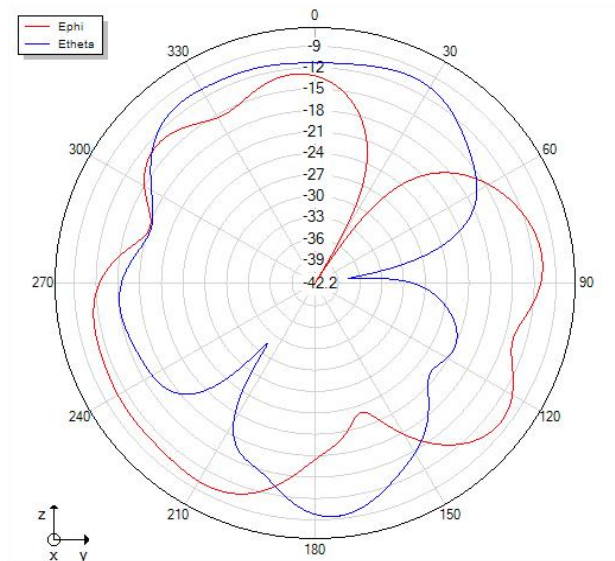
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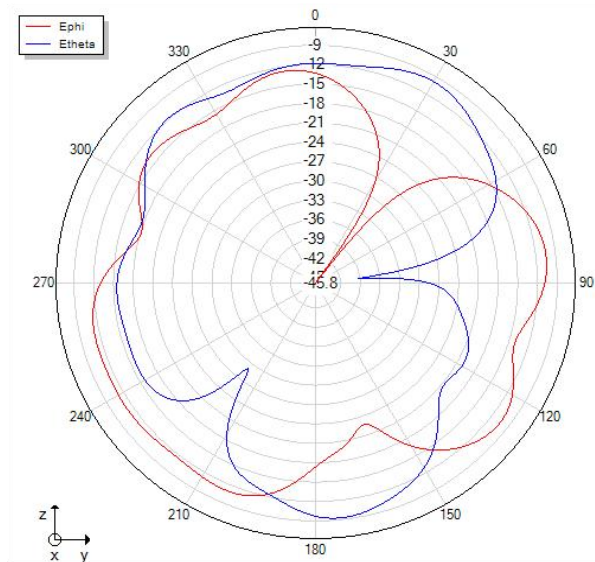
Phi=90 freq=1820MHz



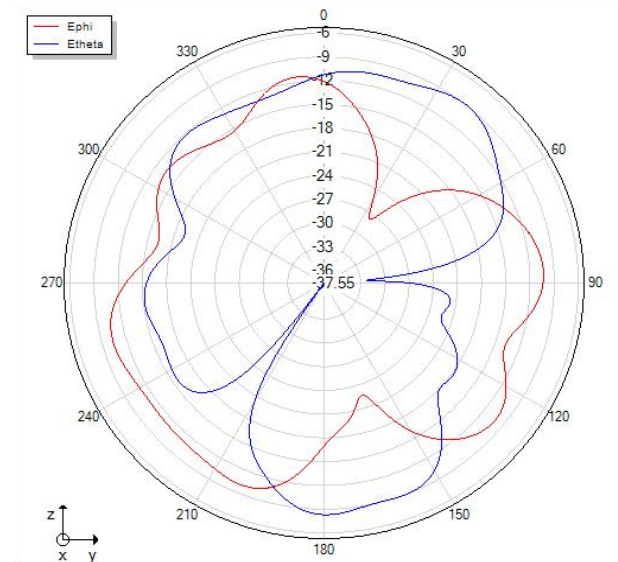
Phi=90 freq=1840MHz



Phi=90 freq=1860MHz

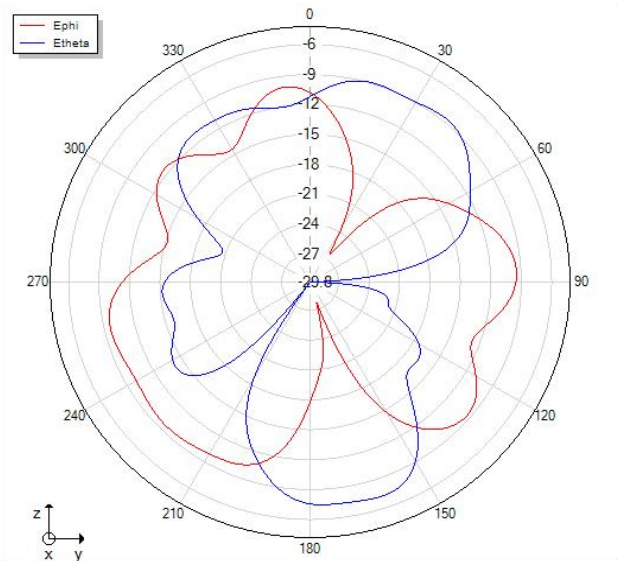


Phi=90 freq=1880MHz

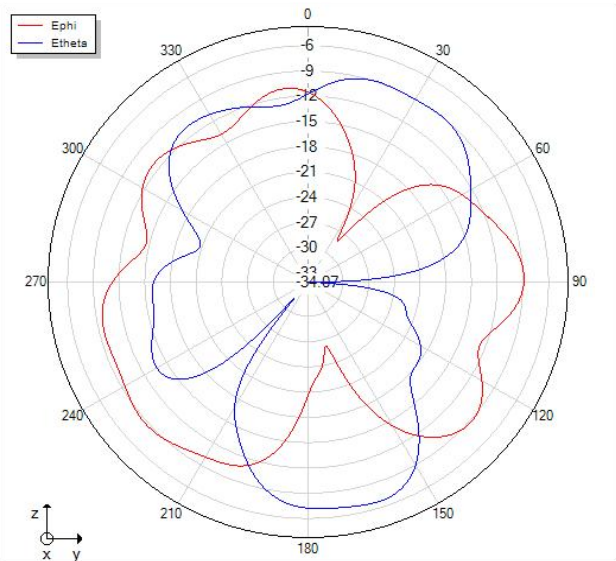


Lobe diagram

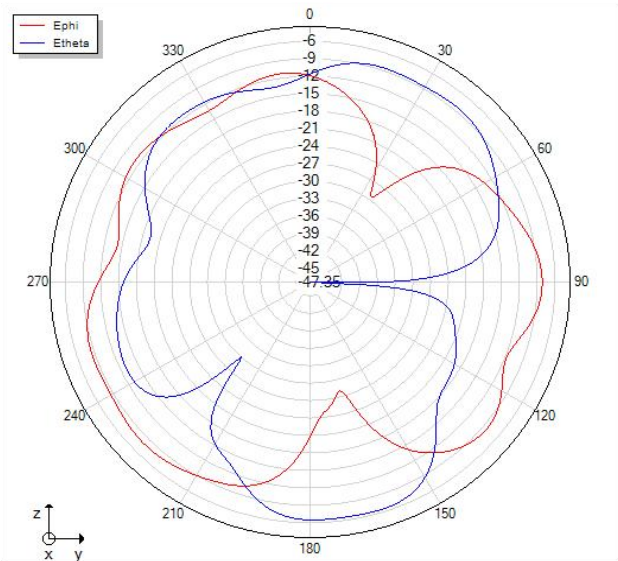
Phi=90 freq=1900MHz



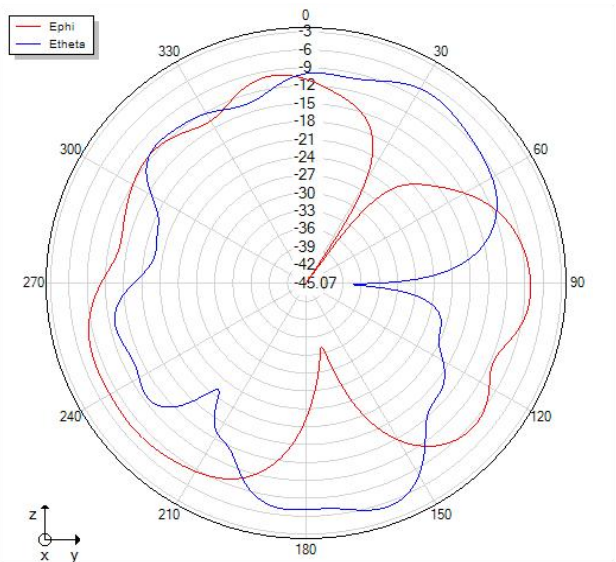
Phi=90 freq=1920MHz



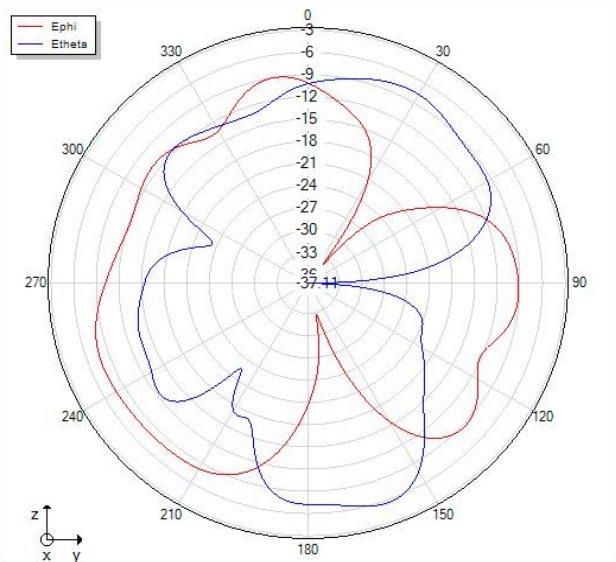
Phi=90 freq=1940MHz



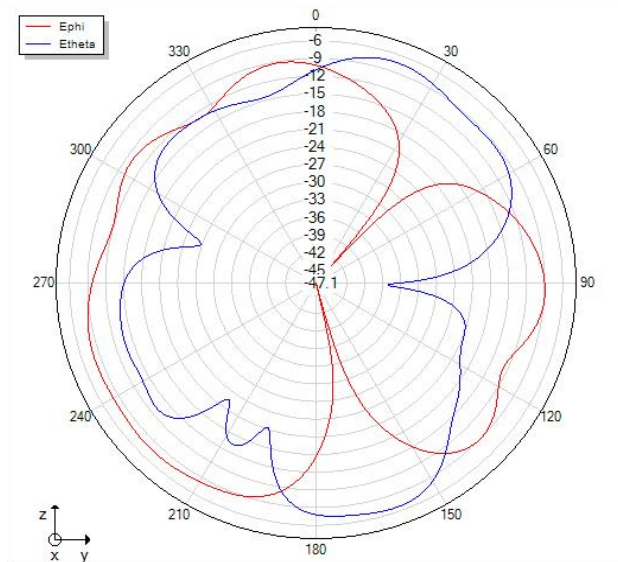
Phi=90 freq=1960MHz



Phi=90 freq=1980MHz

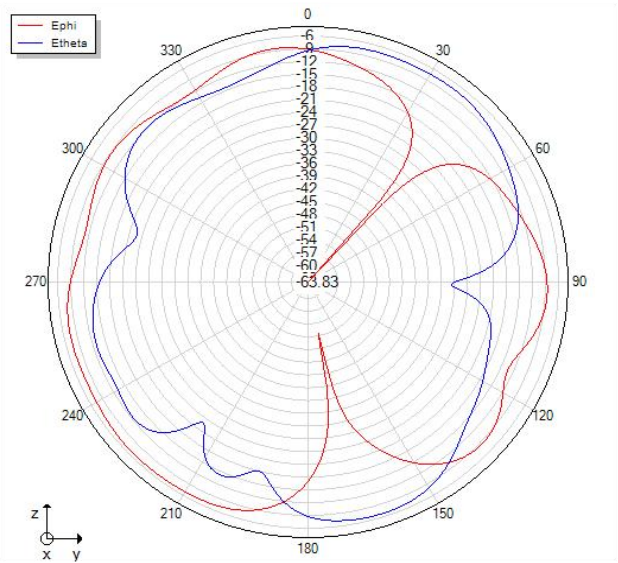


Phi=90 freq=2000MHz

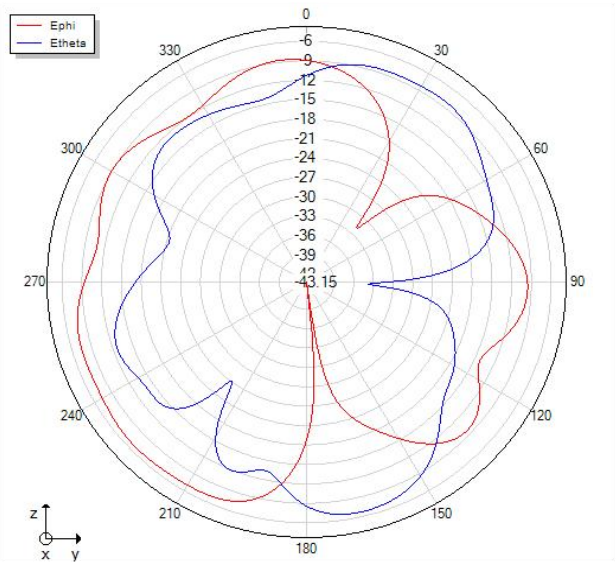


Lobe diagram

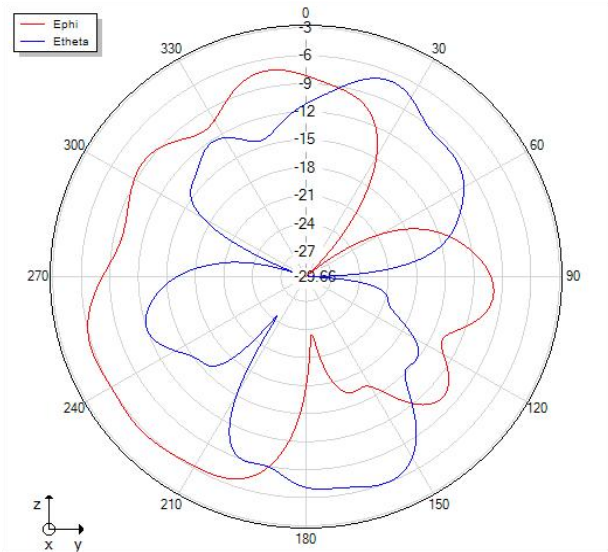
Phi=90 freq=2020MHz



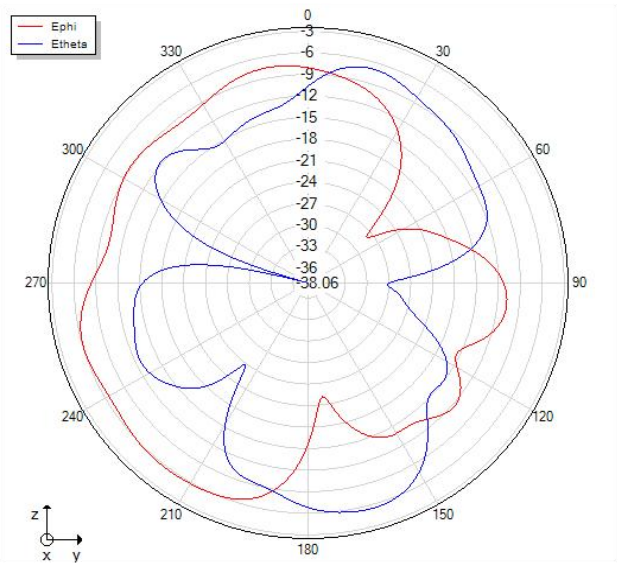
Phi=90 freq=2040MHz



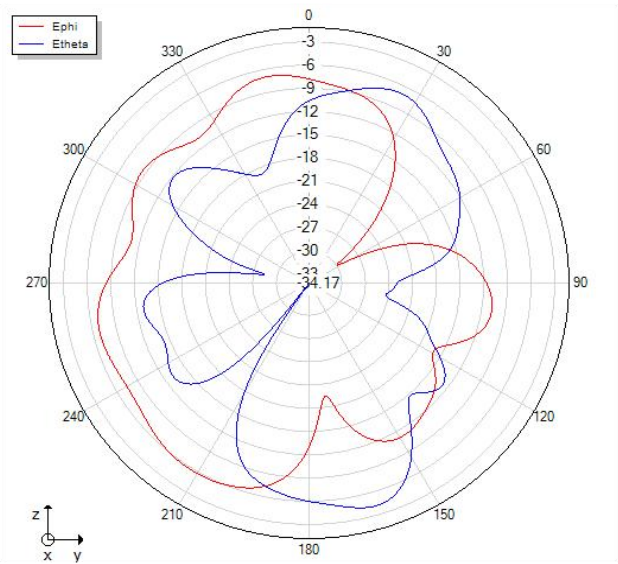
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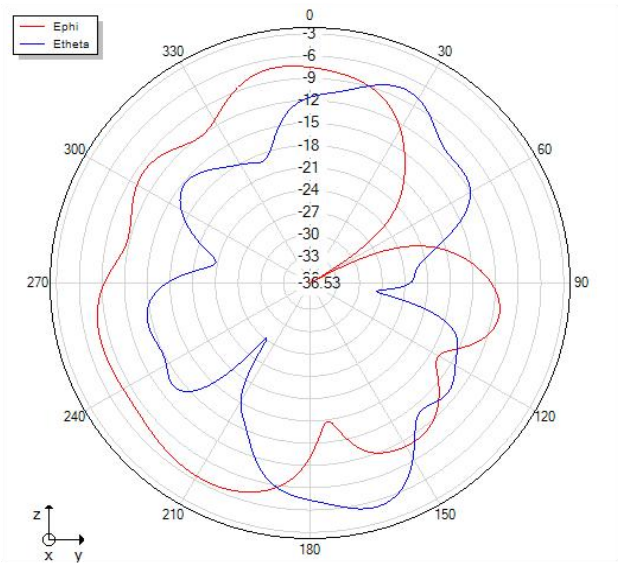
Phi=90 freq=2080MHz



Phi=90 freq=2100MHz

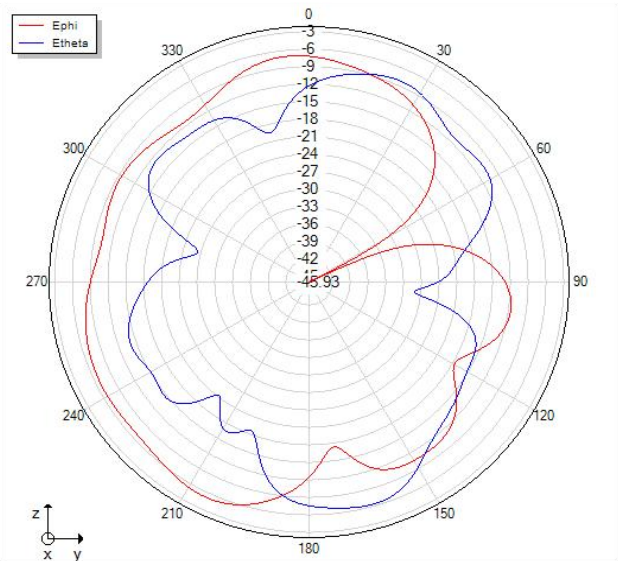


Phi=90 freq=2120MHz

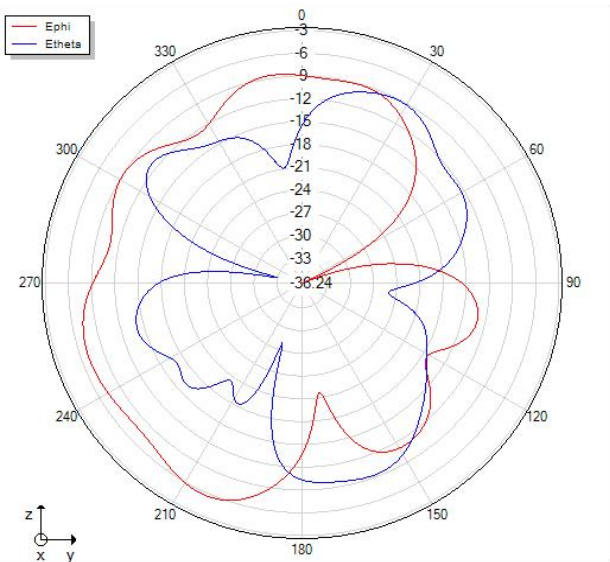


Lobe diagram

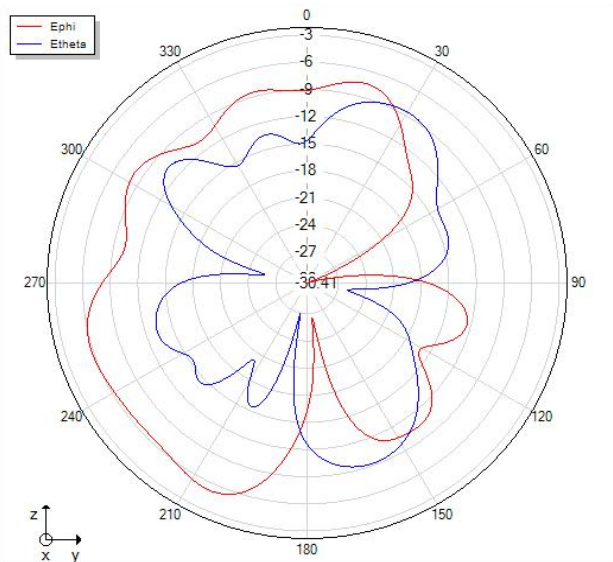
Phi=90 freq=2140MHz



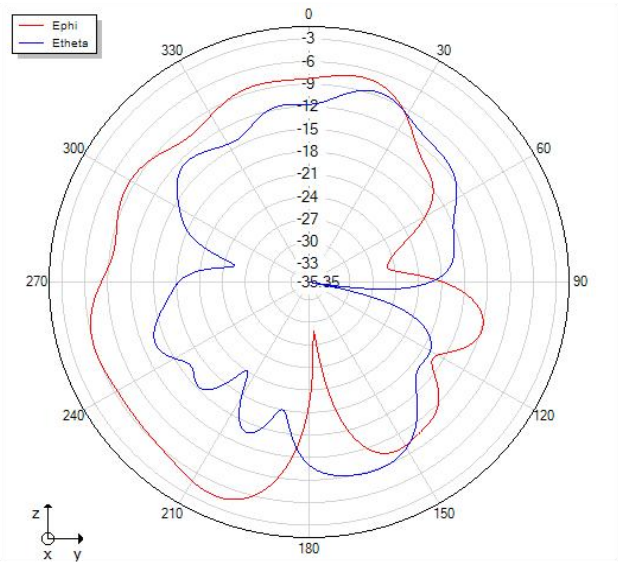
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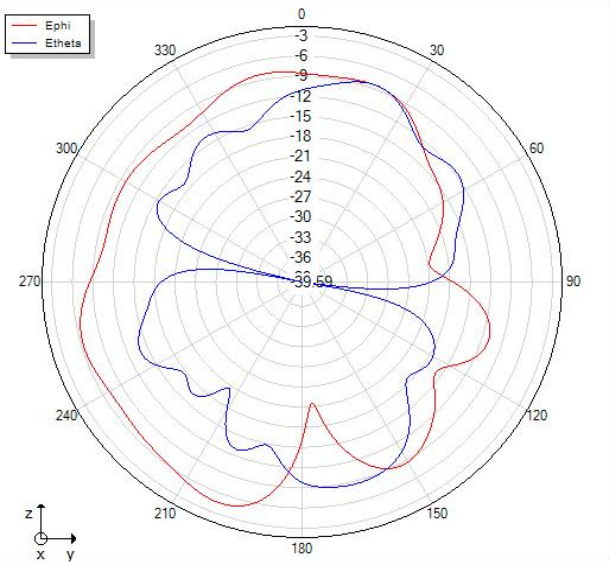
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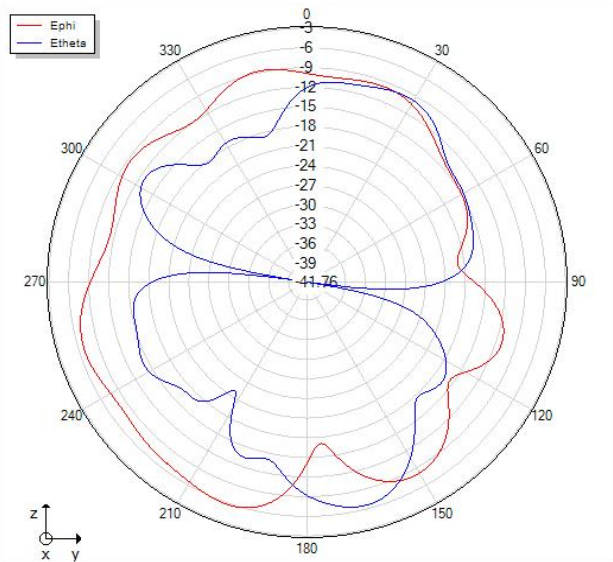
Phi=90 freq=2200MHz



Phi=90 freq=2220MHz

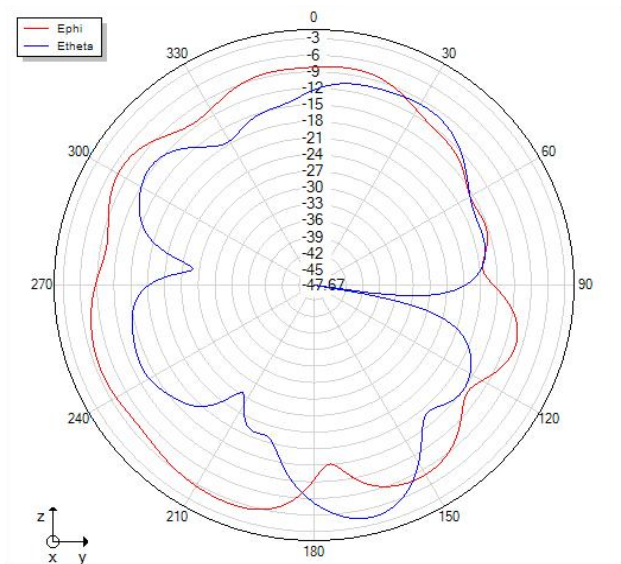


Phi=90 freq=2240MHz

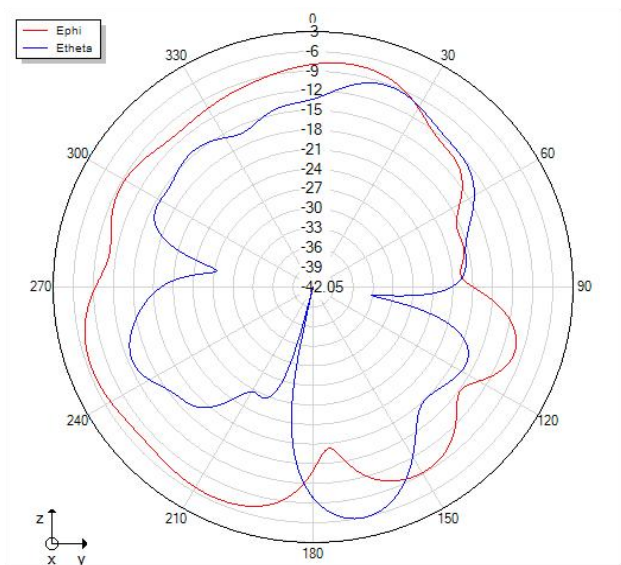


Lobe diagram

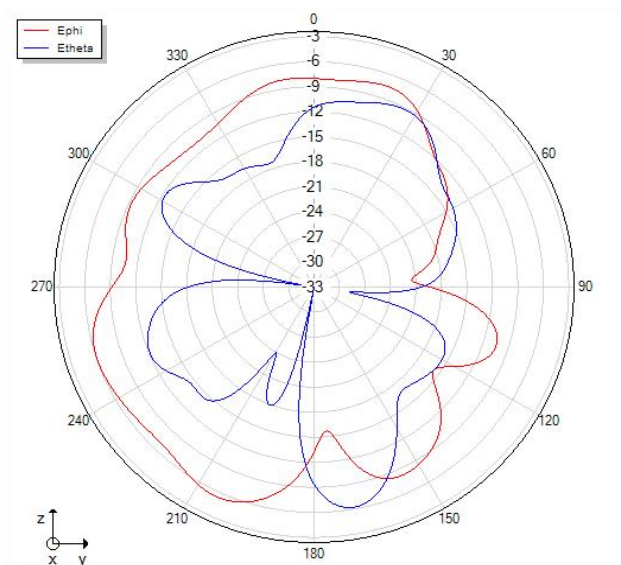
Phi=90 freq=2260MHz



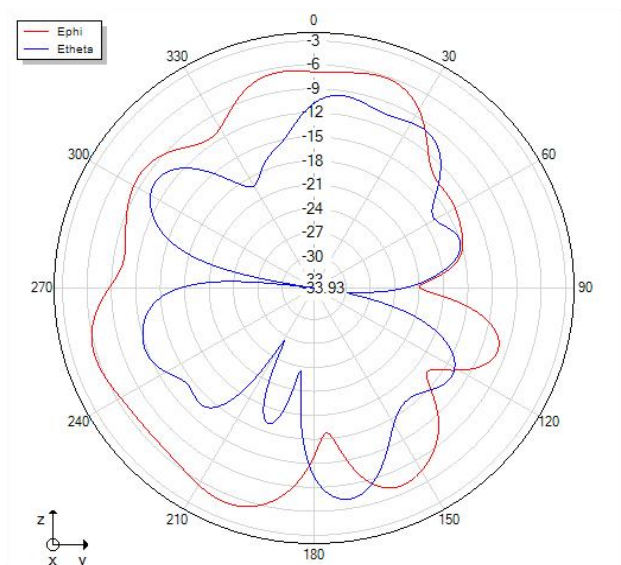
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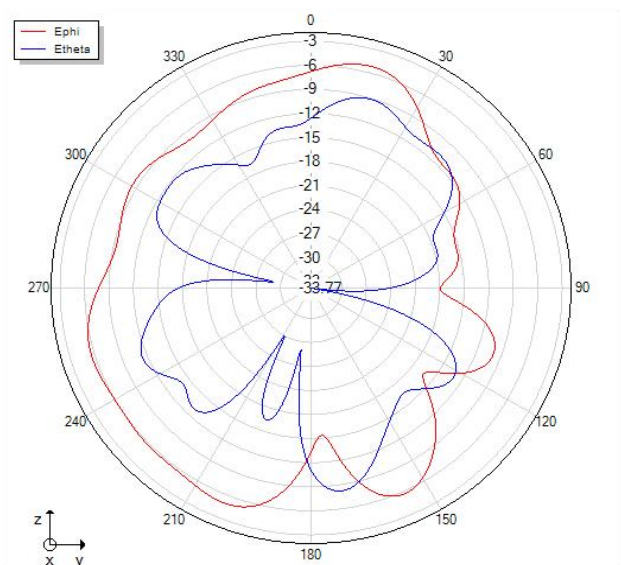
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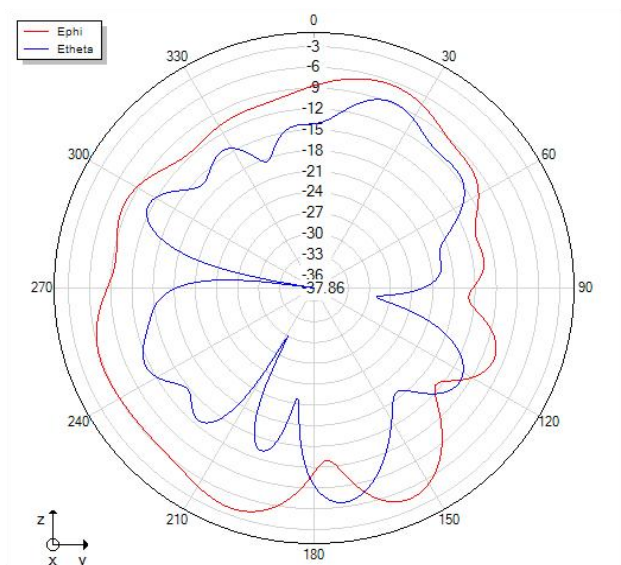
Phi=90 freq=2320MHz



Phi=90 freq=2340MHz

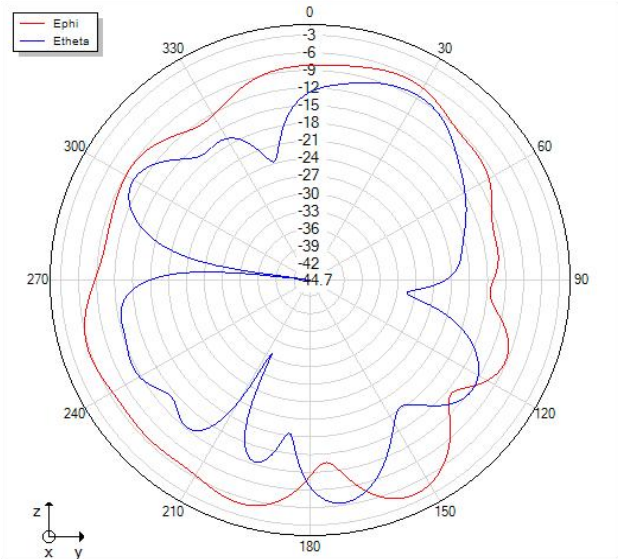


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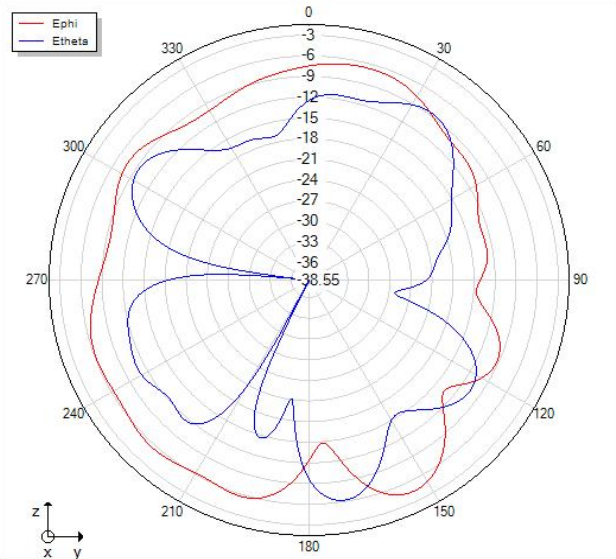


Lobe diagram

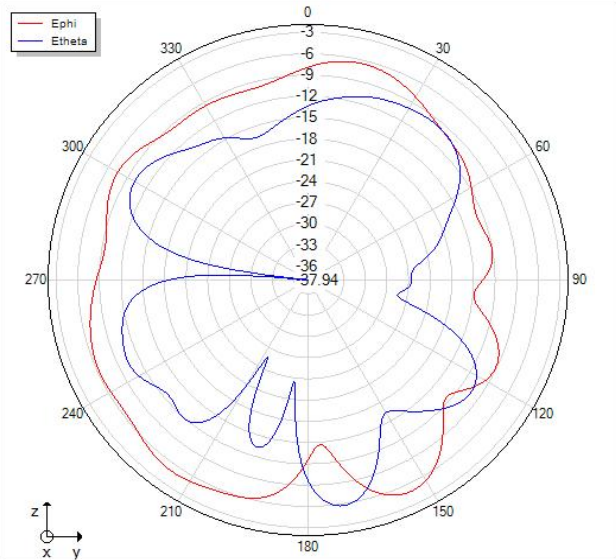
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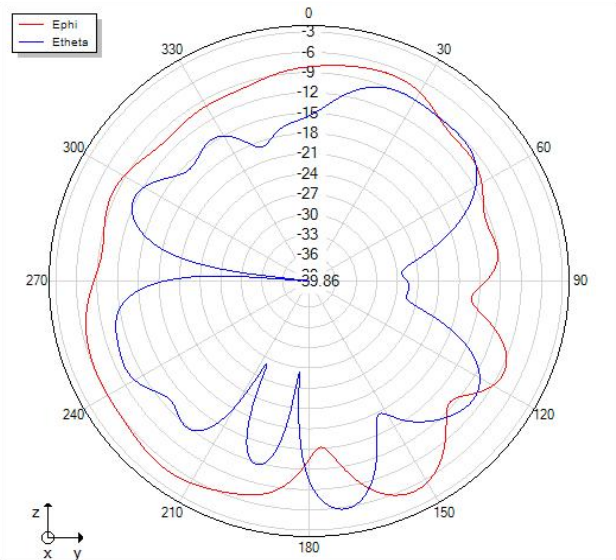
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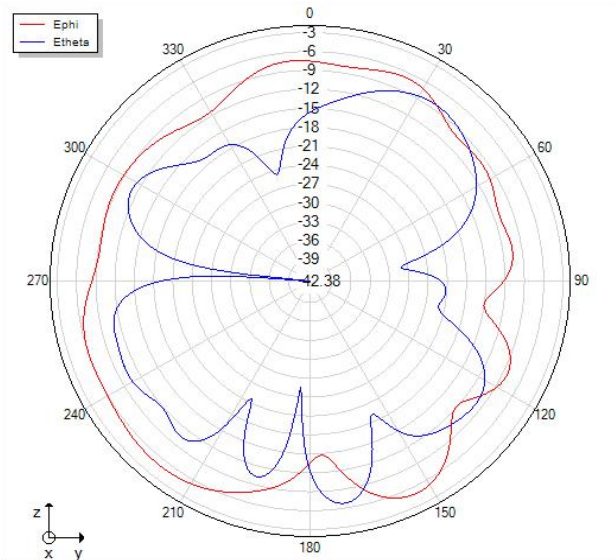
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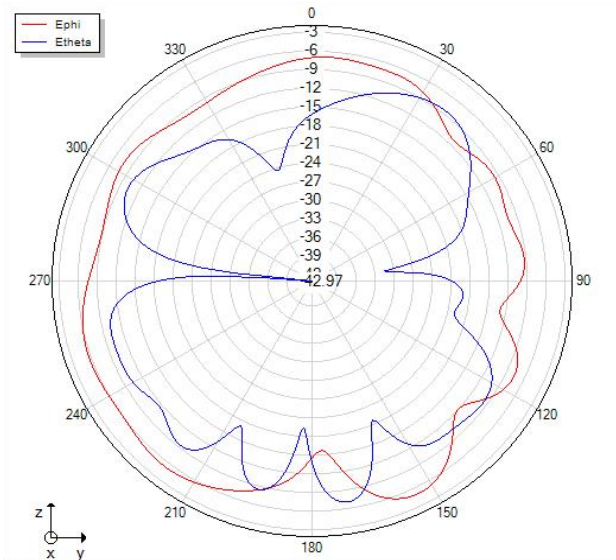
Phi=90 freq=2440MHz



Phi=90 freq=2460MHz

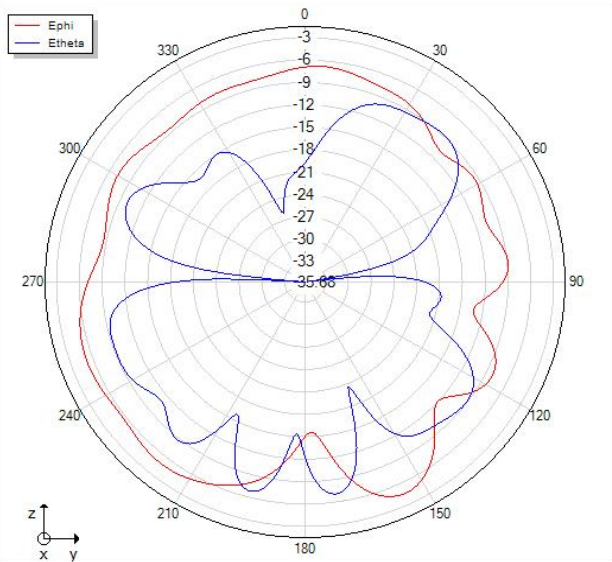


Phi=90 freq=2480MHz

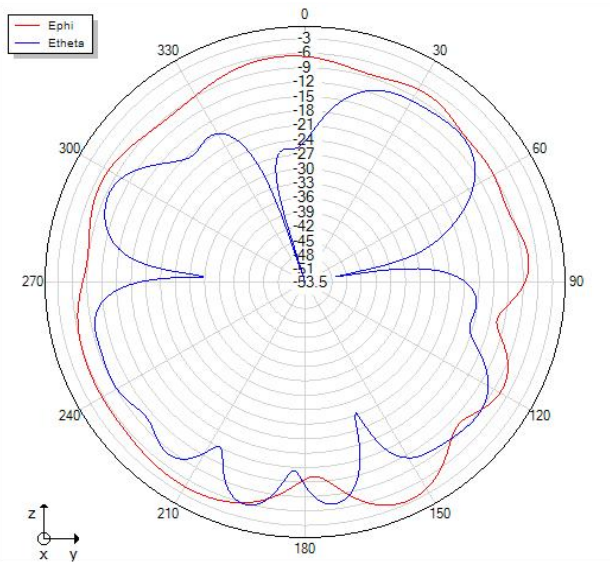


Lobe diagram

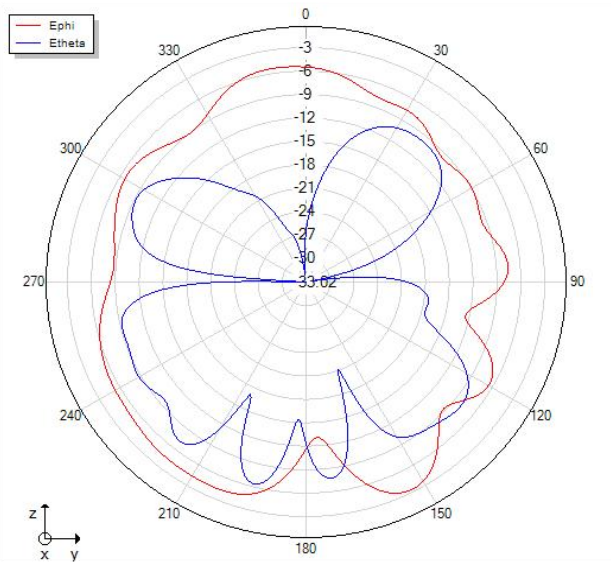
Phi=90 freq=2500MHz



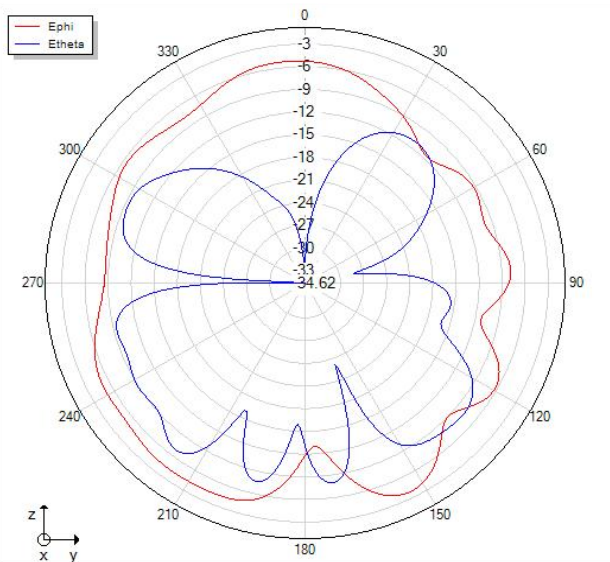
Phi=90 freq=2520MHz



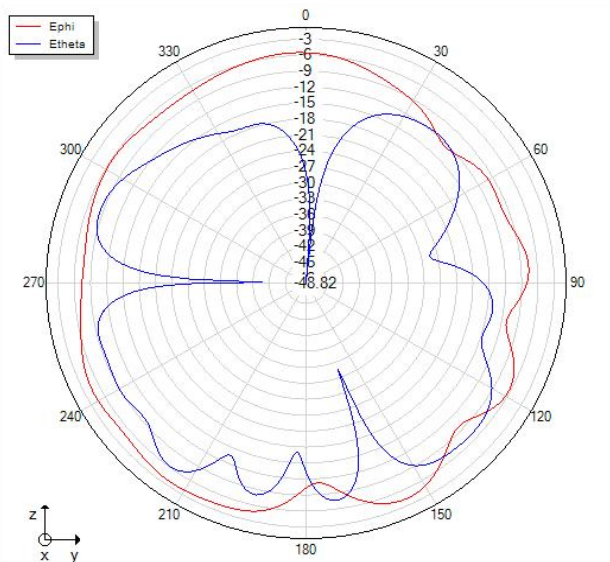
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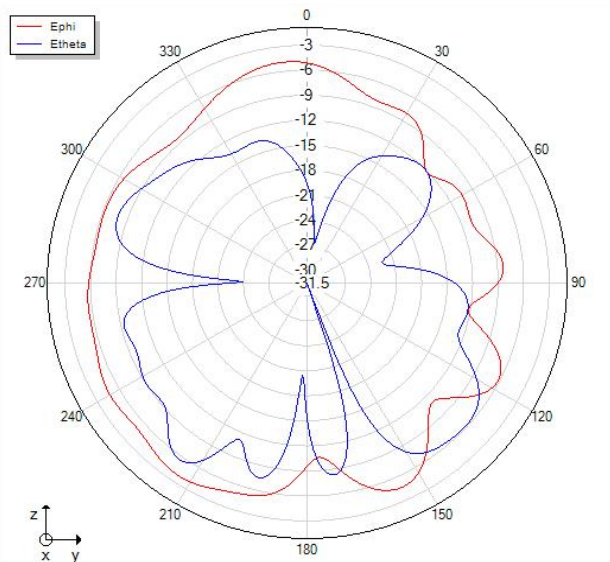
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Phi=90 freq=2580MHz

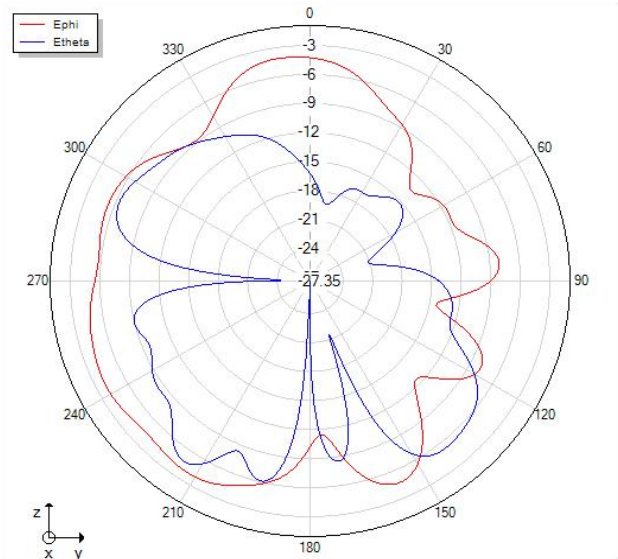


Phi=90 freq=2600MHz

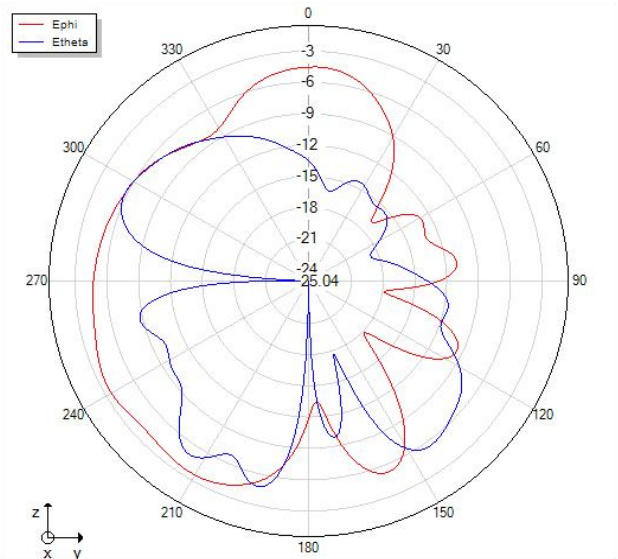


Lobe diagram

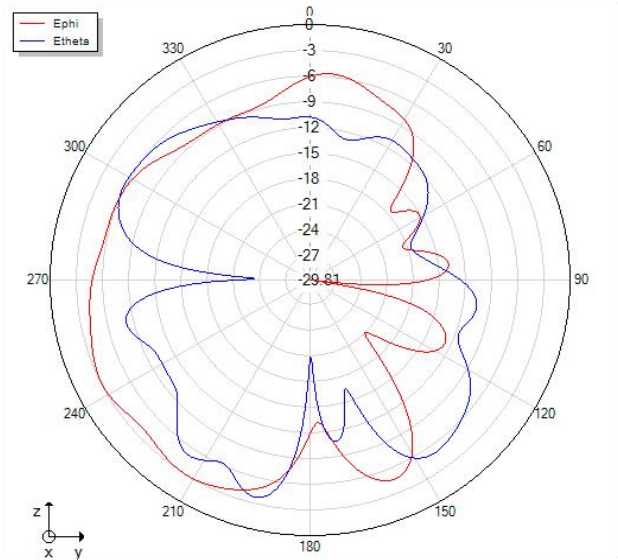
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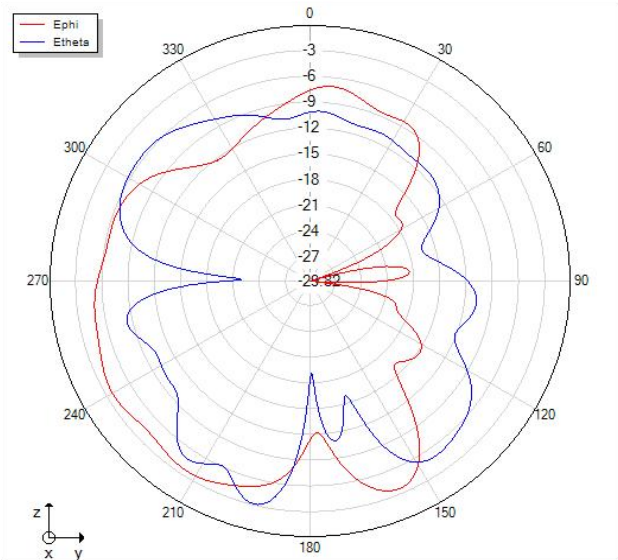
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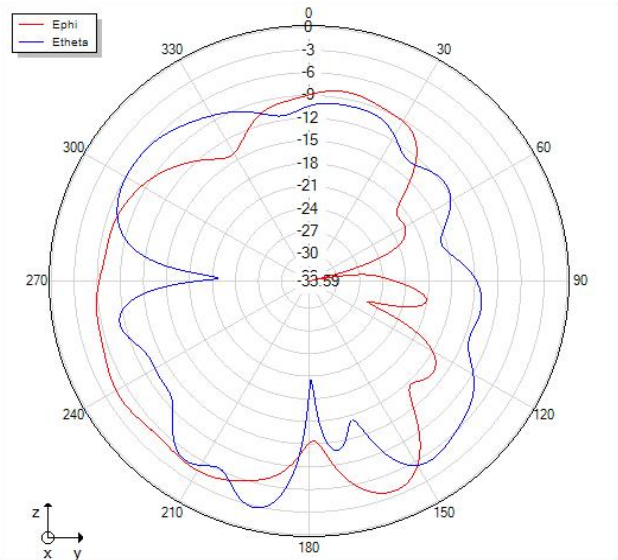
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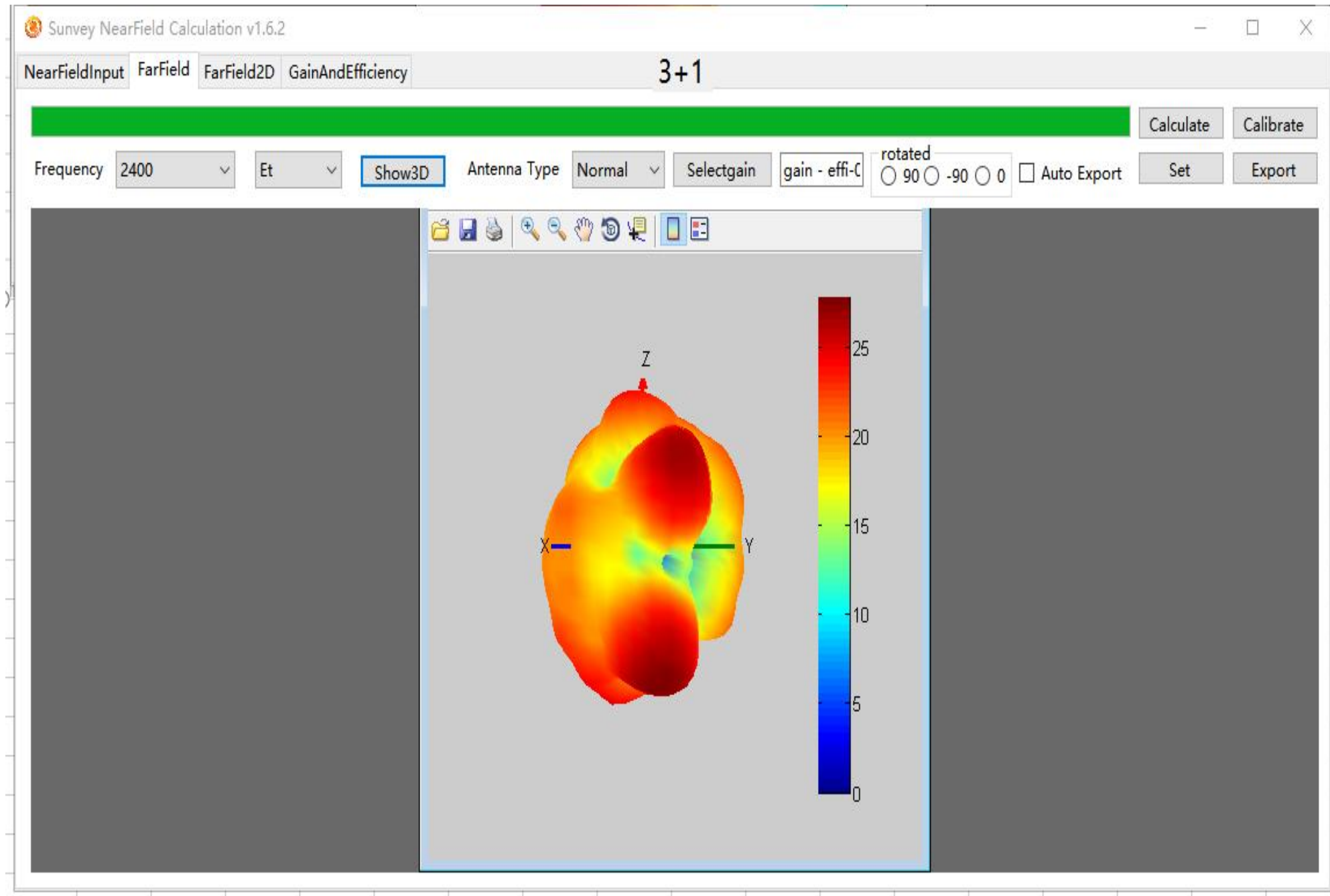
Phi=90 freq=2680MHz



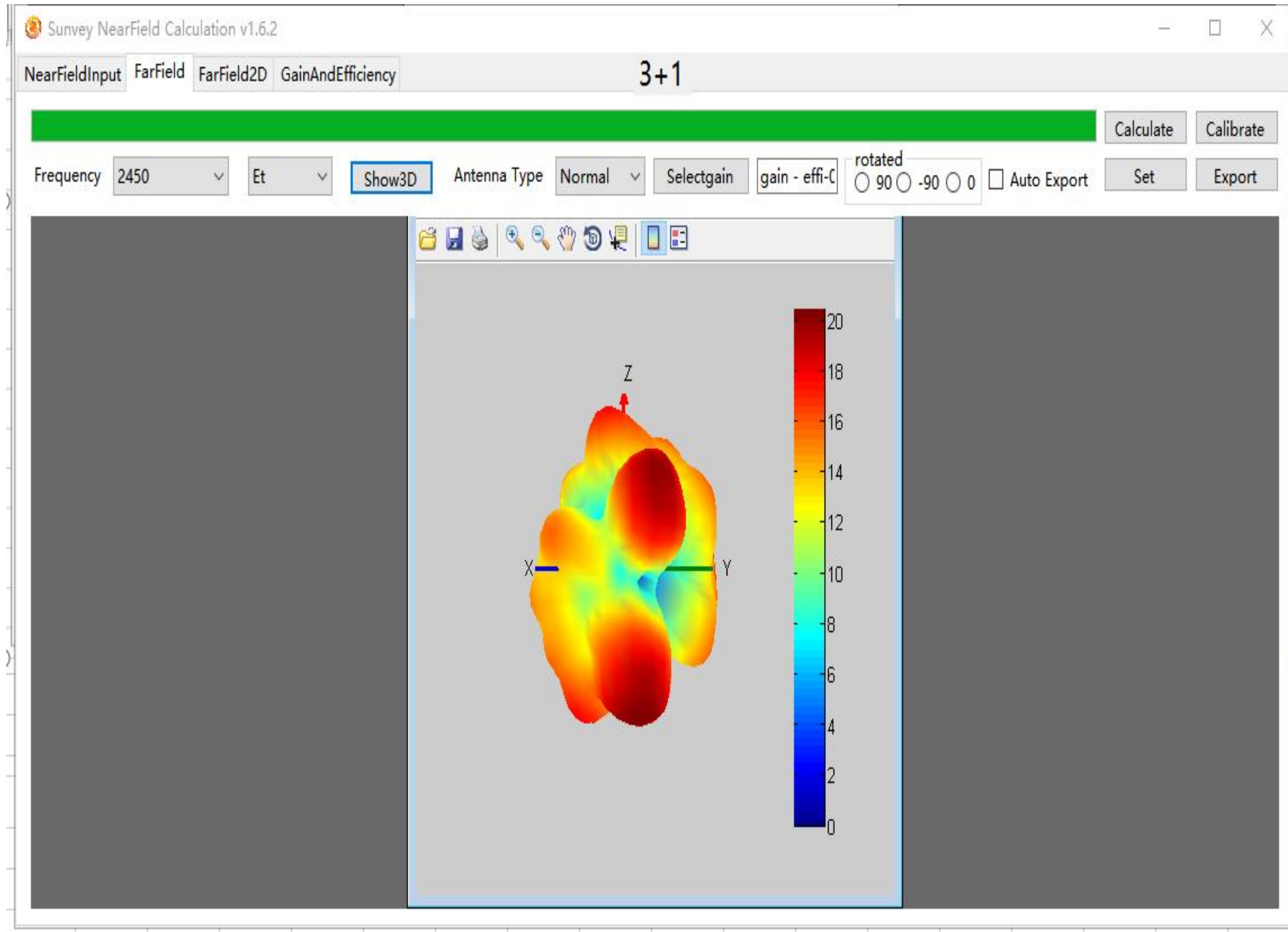
Phi=90 freq=2700MHz



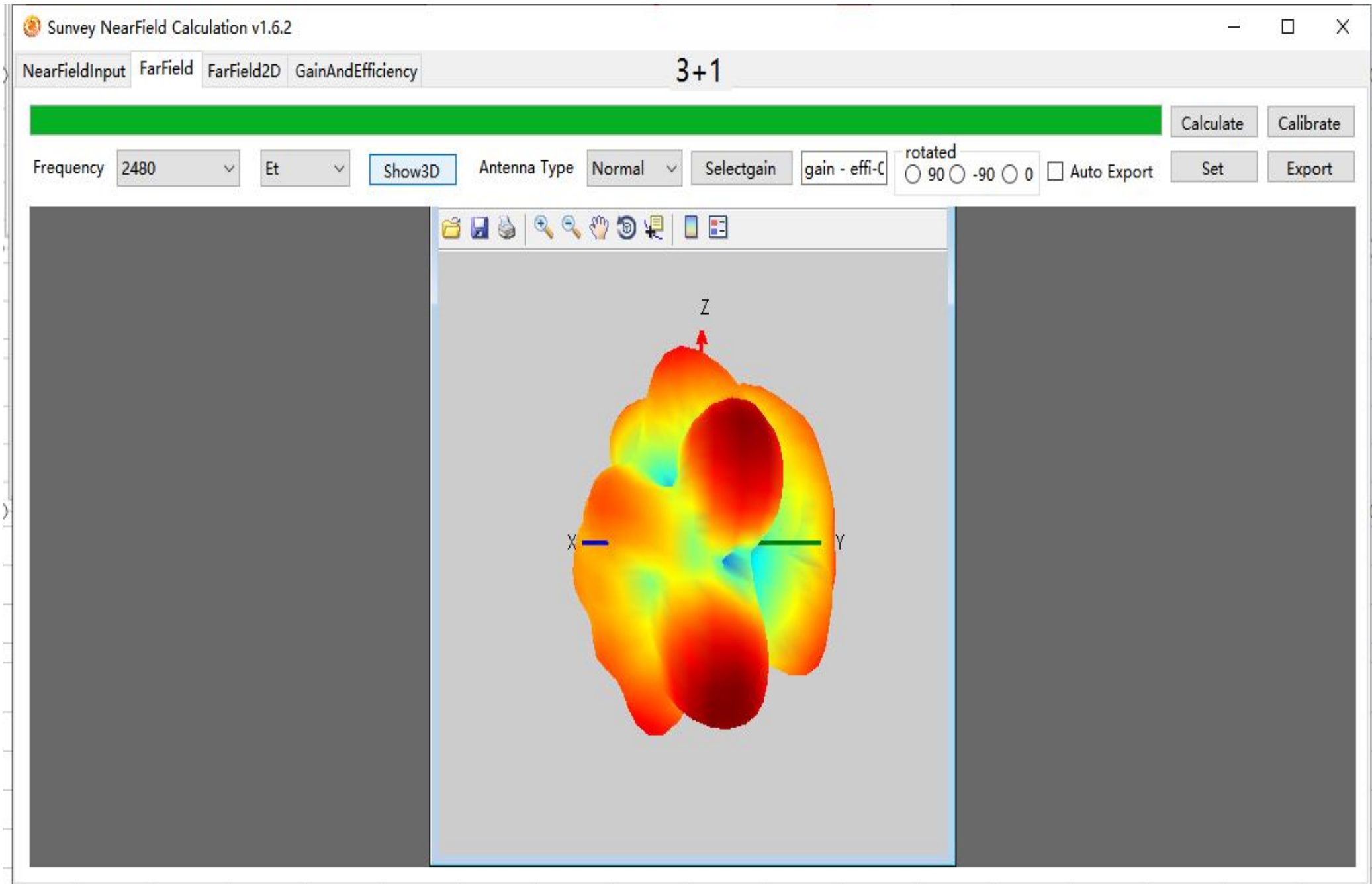
GWB antenna apple diagram



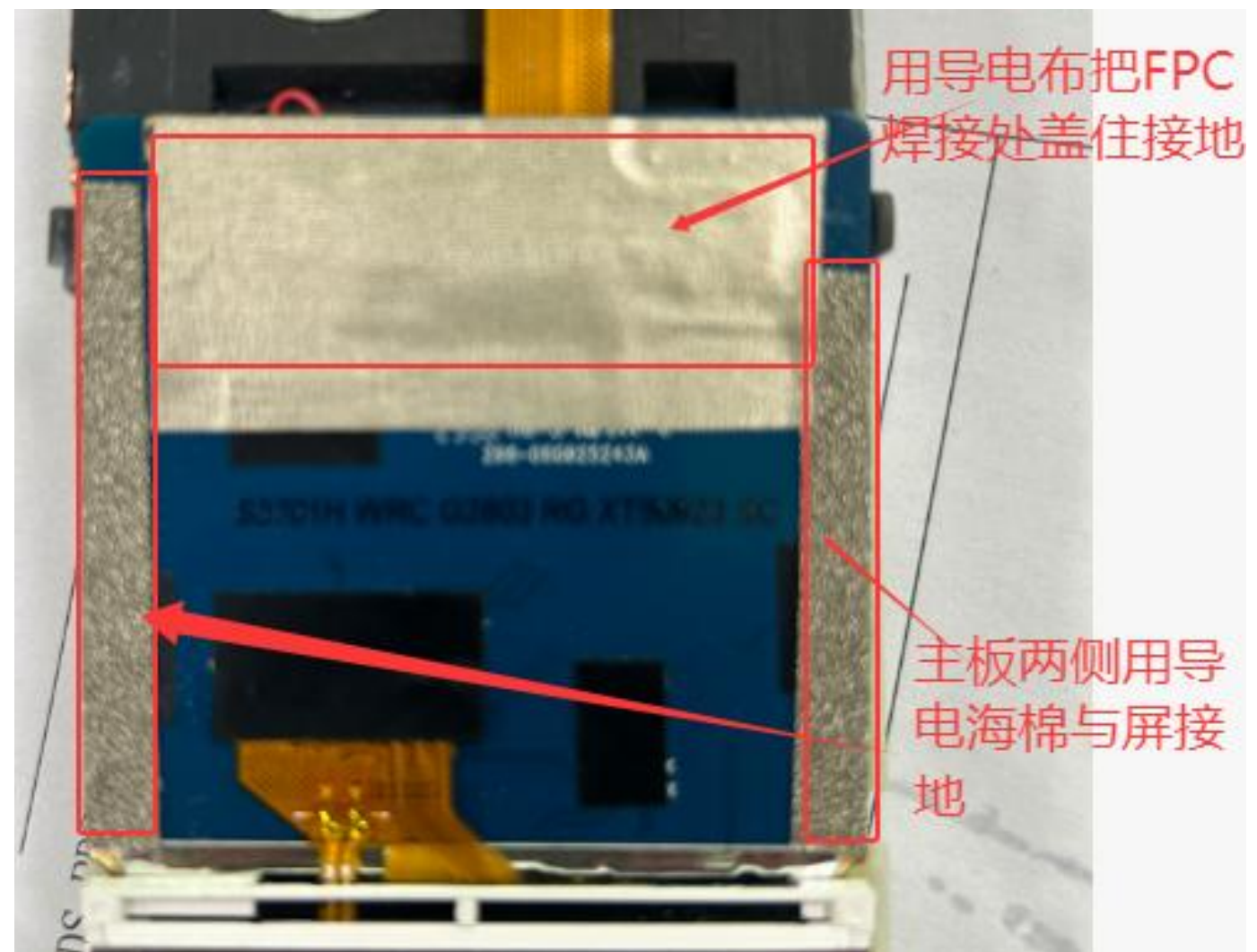
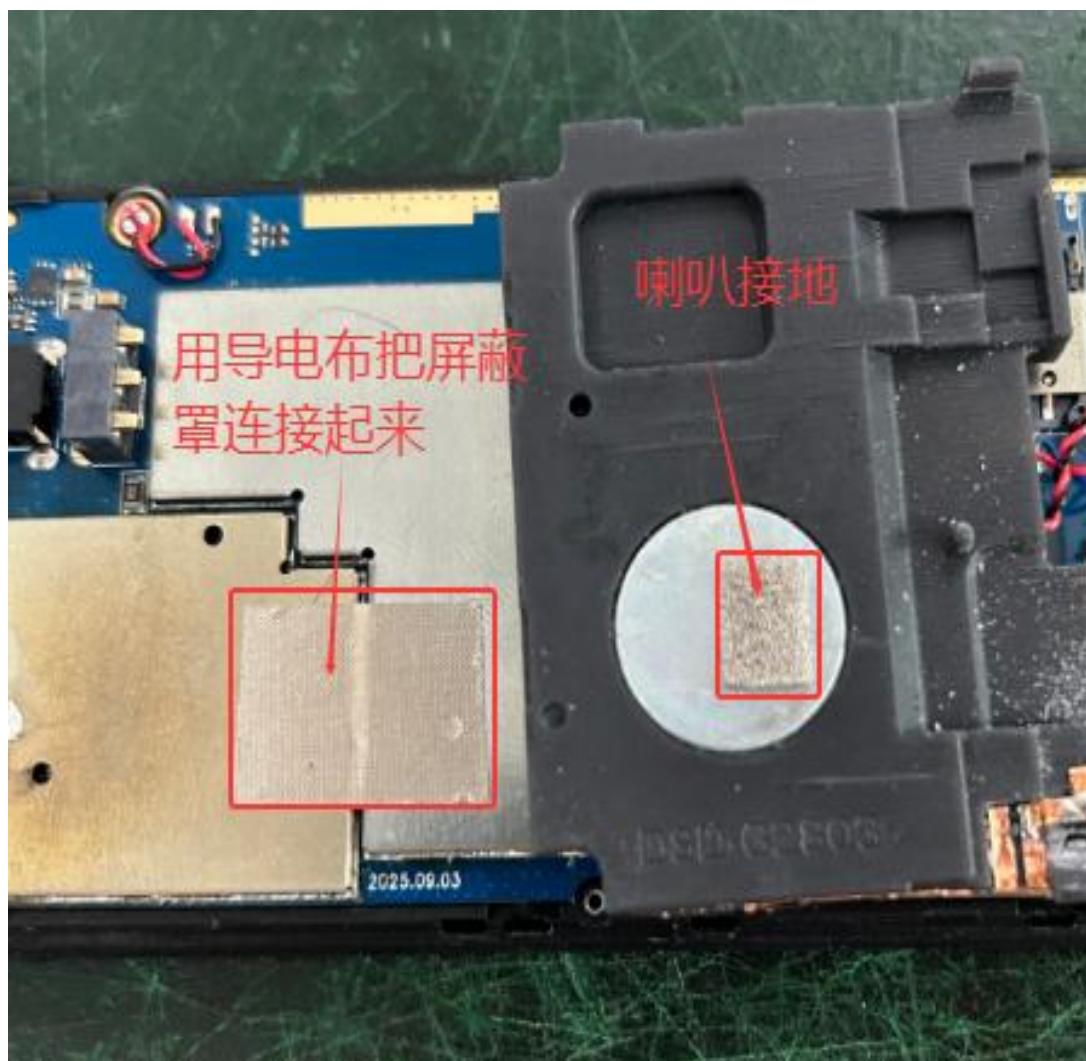
GWB antenna apple diagram

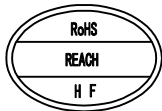


GWB antenna apple diagram

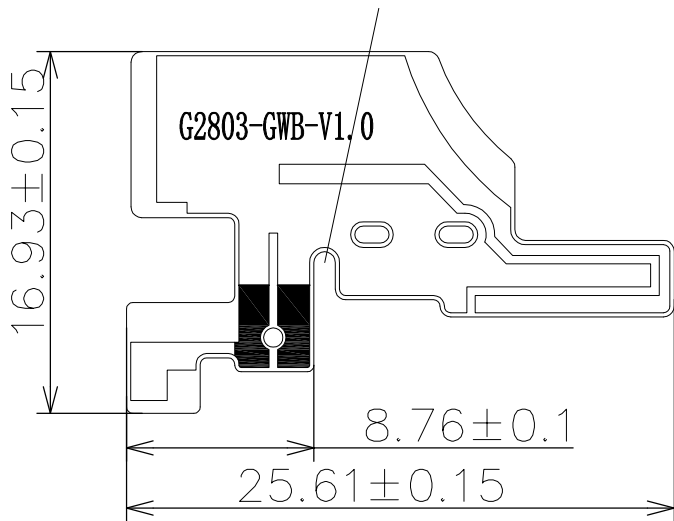


Environmental Processing





丝印黑色亮光字码



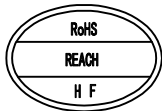
半对半材料

技术要求:

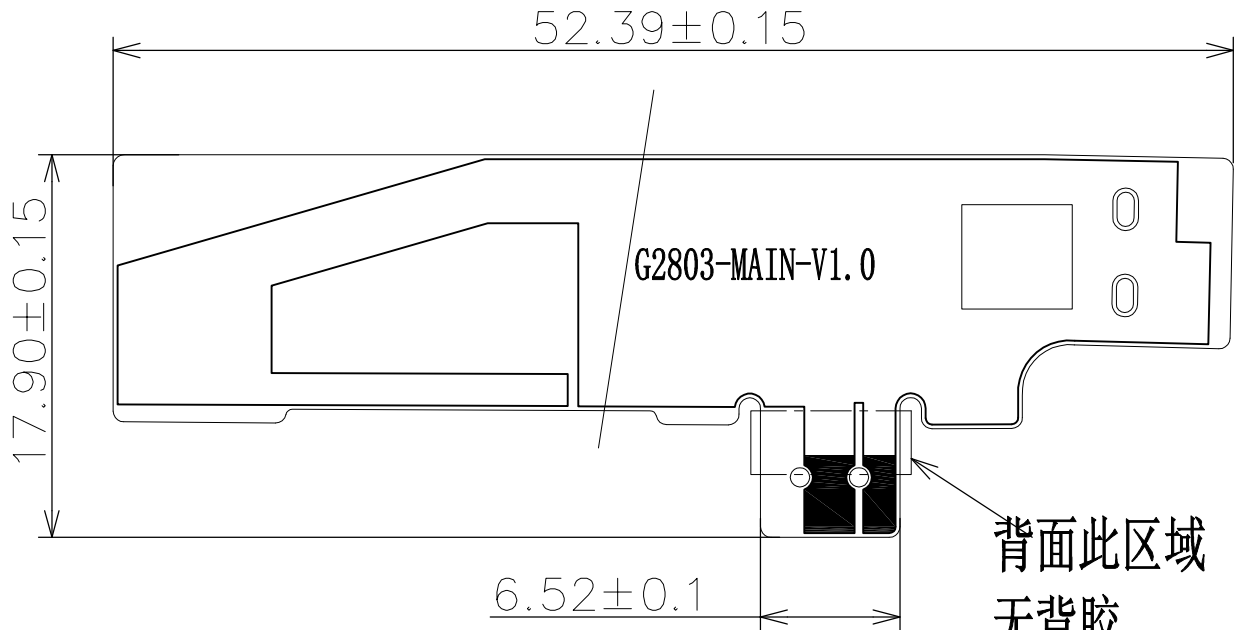
- 1、绿色为外形轮廓,白色填充部位为电气走线覆铜;
- 2、基材材质为聚酰亚胺或聚酯薄膜;
- 3、图示为正面,反面背胶,此FPC背胶3M300LSE(9471LE);
- 4、打*为必测尺寸及重点尺寸,铜箔线路所有尺寸公差不得超过 ± 0.05 ,
模具冲出外型尺寸公差不得超过 ± 0.15 ,未注尺寸以图形为准;
- 5、基材 $12.5\mu\text{m}$,铜箔 $18\mu\text{m}$,镀镍 $2-6\mu\text{m}$;镀金 $1\text{U}''$;
走线面除焊盘外其它区域表面亚光黑色;
- 6、可靠性测试:盐水喷雾试验48H\橡皮摩擦测试(100个循环)\耐醇性测试(50个循环)\
恒温恒湿试验\冷热冲击试验(12个循环)\附着测试\金手指引脚处挠折性测试;
- 7、出现下列问题均视为不合格:起泡分层\露铜\折皱、折痕\边缘毛边\字符不清;
- 8、包装应防湿、防潮、表面干净,完好无破损。

深圳 云之上电子有限公司

 第三视角				项目名称	G2803	日 期		2026-01-07			
0~10	±0.05		0.03			设 计					
10~30	±0.10		0.03	产品名称	GWB天线	审 核	MD	QYL			
30~50	±0.15		∅0.02					RF XL			
50~80	±0.20		0.02	产品料号	YZS006-G2803-022-A0		批 准				
角度	±1°		0.05								
第1页, 共1页				材 质	FPC	单位	mm	比例	FIT	版本	A1



丝印黑色亮光字码



半对半材料

技术要求:

- 1、绿色为外形轮廓,白色填充部位为电气走线覆铜;
- 2、基材材质为聚酰亚胺或聚酯薄膜;
- 3、图示为正面,反面背胶,此FPC背胶3M300LSE(9471LE);
- 4、打*为必测尺寸及重点尺寸,铜箔线路所有尺寸公差不得超过 ± 0.05 ,模具冲出外型尺寸公差不得超过 ± 0.15 ,未注尺寸以图形为准;
- 5、基材 $12.5\mu\text{m}$,铜箔 $18\mu\text{m}$,镀镍 $2-6\mu\text{m}$;镀金 $1\text{U}''$;走线面除焊盘外其它区域表面亚光黑色;
- 6、可靠性测试:盐水喷雾试验48H\橡皮摩擦测试(100个循环)\耐醇性测试(50个循环)\恒温恒湿试验\冷热冲击试验(12个循环)\附着力测试\金手指引脚处挠折性测试;
- 7、出现下列问题均视为不合格:起泡分层\露铜\折皱、折痕\边缘毛边\字符不清;
- 8、包装应防湿、防潮、表面干净,完好无破损。

深圳 云之上电子有限公司

第三视角				项目名称	G2803	日期	2026-01-07			
0~10	± 0.05	$\oplus$	0.03	产品名称	MAIN天线	设计				
10~30	± 0.10	$\bigcirc$	0.03			审核	MD	QYL		
30~50	± 0.15	$\odot$	$\phi 0.02$				RF	XL		
50~80	± 0.20	$\perp$	0.02	产品料号	YZS006-G2803-021-A0	批准				
角度	$\pm 1^\circ$	$\angle$	0.05	材 质	FPC			单位	mm	比例
第1页,共1页								FIT	版本	A1