



ShenZhen Huaxinwei communication technology  
Co.,Ltd.

## Antenna test report

Customer Name: XunRui

Project Name: S6318G

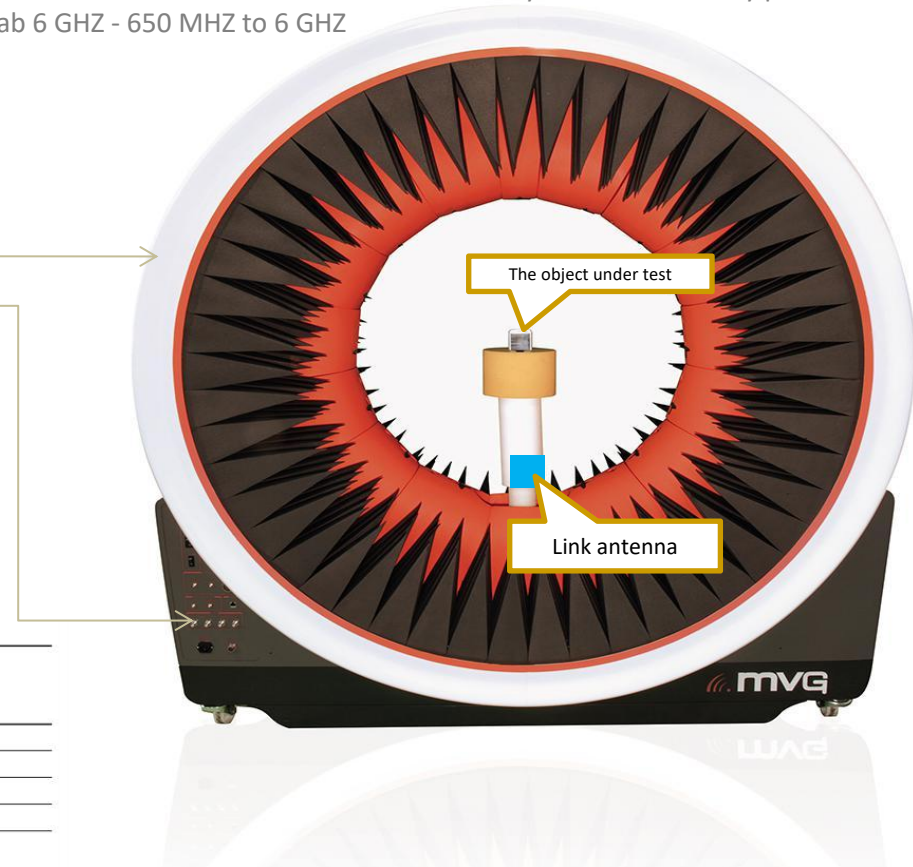
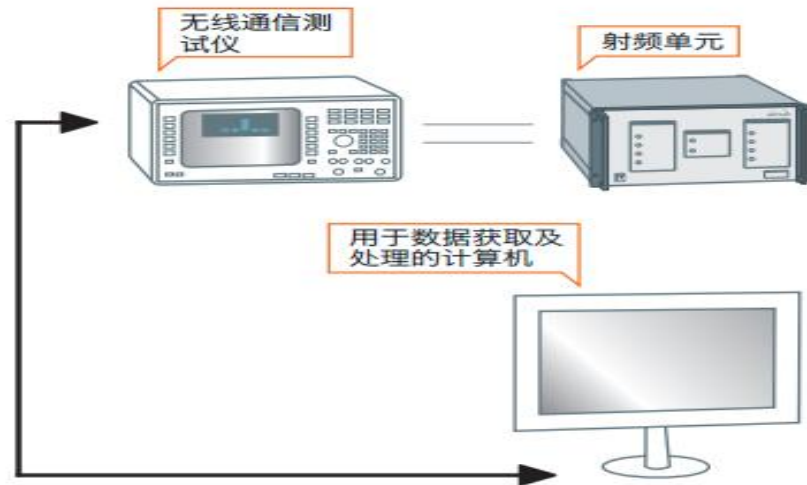
Designer: Liu Chun Yun

Date: 2024/07/03

The customer name		XunRui	Project Name	S6318G
NO.	project	Detailed above		
1	spectrum	GSM850/900/1800/1900+WCDMA-B1/2/4/5/8+LTE-B1/2/3/4/5/7/8/12/17/20/26/28/66/38/4041+GPS/WIFI/BT		
2	Project type	The mobile phone		
3	Antenna space area			
4	Feed point type			
5	The sensitivity			
6	Type of antenna			
7	The length of the PCB board			
8	note	Debugging prototype		
RF		Liu Chun Yun	15112340864	hxw_lcy@sz-hxw.cn

# 1、 Test system and test equipment

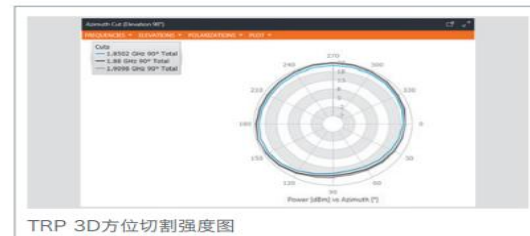
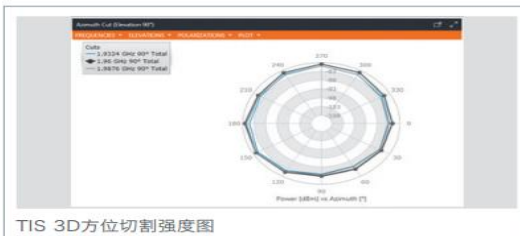
System Brand: MVG(SATIMO) measurement features: gain • pattern beamwidth cross polarization resolution sidelobe level 3D cavity reflectance at any polarization cavity reflectance (line or arc) antenna efficiency TRP, TIS, EIRP and EIS. Frequency band: StarLab 6 GHz - 650 MHz to 6 GHz



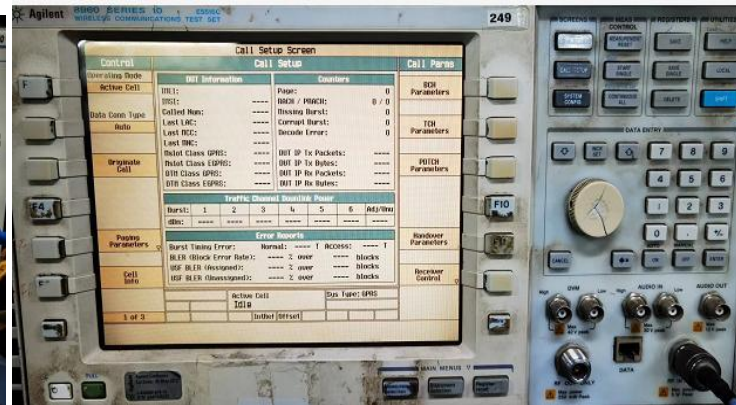
TIS预计测量时间 (一个信道每隔30° 取样)

灵敏度算法 \ 标准	GSM GPRS EDGE	CDMA 1 x RTT 1 x EvDO	WCDMA HSDPA LTE FDD/TDD	Wi-Fi 802.11 a/b/g/n	CTIA 批准方法
RSSI模式+线性化+TIS补偿	8 min		10 min		是
EIS模式+TIS补偿		5 min		5 min	是 <sup>2</sup>
快速CDMA		8 min			No
EIRP模式+TIS补偿				10 min	No

1、根据RTC  
2、根据协议



# Test Equipment

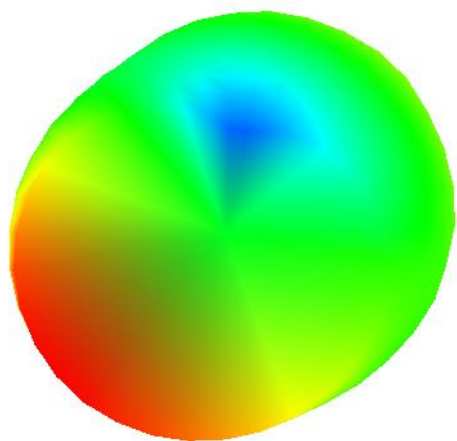


## Efficient ( 2G+3G+4G+2. 4G-WiFi /BT)

PEAK GAIN			
2G:	Frequency range	Effi %	Gaim dBi
GSM850	824~894Mhz	21.80	-0.71
GSM900	880~960Mhz	20.84	-1.05
DCS1800	1710~1880Mhz	28.62	0.63
PCS1900	1850~1990Mhz	30.81	0.81
<b>3G:</b>			
W1	1920~2170Mhz	37.45	0.91
W2	1850~1990Mhz	30.81	0.81
W4	1712~2152Mhz	29.38	0.67
W5	824~894Mhz	21.80	-0.71
W8	880~960Mhz	20.84	-1.05
<b>4G:</b>			
LTE-B1	1920~2170Mhz	37.45	0.91
LTE-B2	1851~1985Mhz	30.81	0.81
LTE-B3	1710~1880Mhz	28.62	0.63
LTE-B4	1712~2152Mhz	29.38	0.67
LTE-B5	824~894Mhz	21.80	-0.71
LTE-B7	2500~2690Mhz	28.01	1.12
LTE-B8	880~960Mhz	20.84	-1.05
LTE-B12	699~743Mhz	20.03	-1.18
LTE-B17	705~741Mhz	20.03	-1.18
LTE-B20	791~862Mhz	20.84	-0.71
LTE-B26	814~894Mhz	21.80	-0.71
LTE-B28	708~798Mhz	20.03	-1.18
LTE-B66	1711~2175Mhz	29.38	0.67
LTE-B38	2500~2690Mhz	28.01	1.12
LTE-B40	2300~2400Mhz	29.21	1.14
LTE-B41	2500~2690Mhz	28.01	1.12
2. 4G-WIFI	2400~2500Mhz	42.52	1.37
BT	2400~2500Mhz	42.51	1.37
GPS	1575Mhz	38.73	0.43

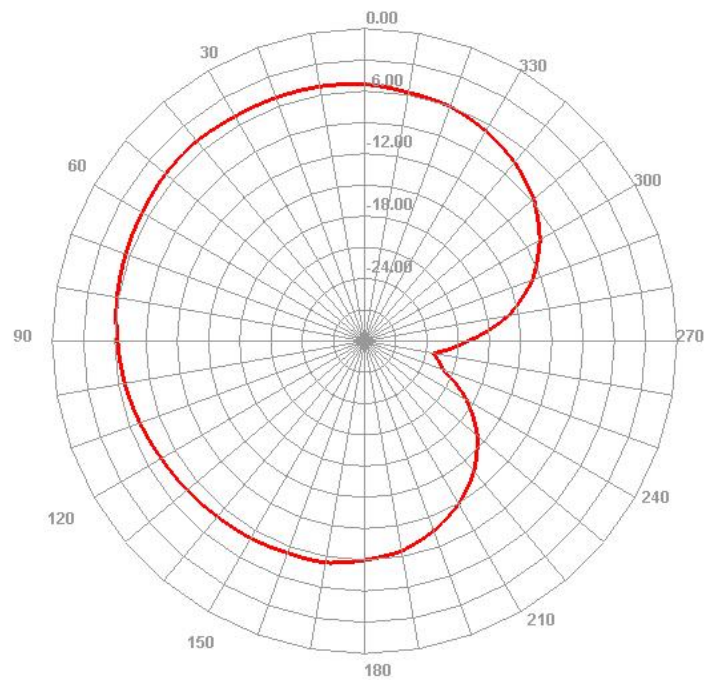
# Efficient ( 699~798MHz)

## 730.000MHz

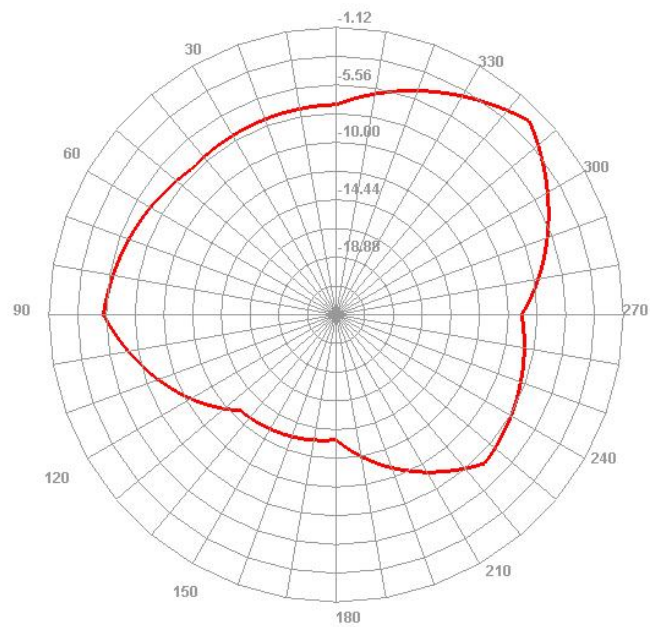


# Lower antenna

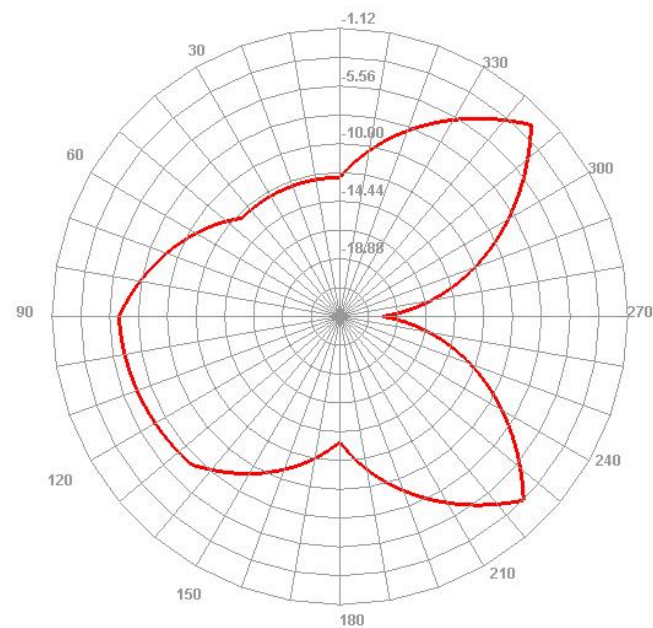
## 730.000MHz H



## 730.000MHz E1

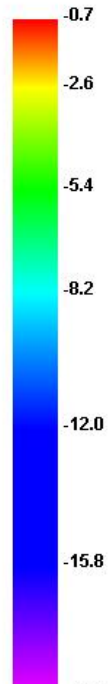
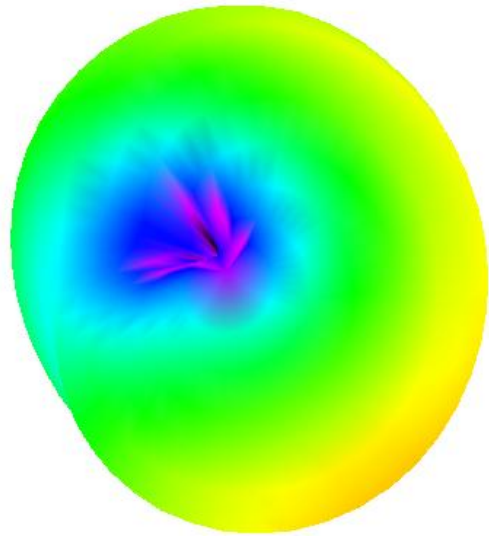


## 730.000MHz E2

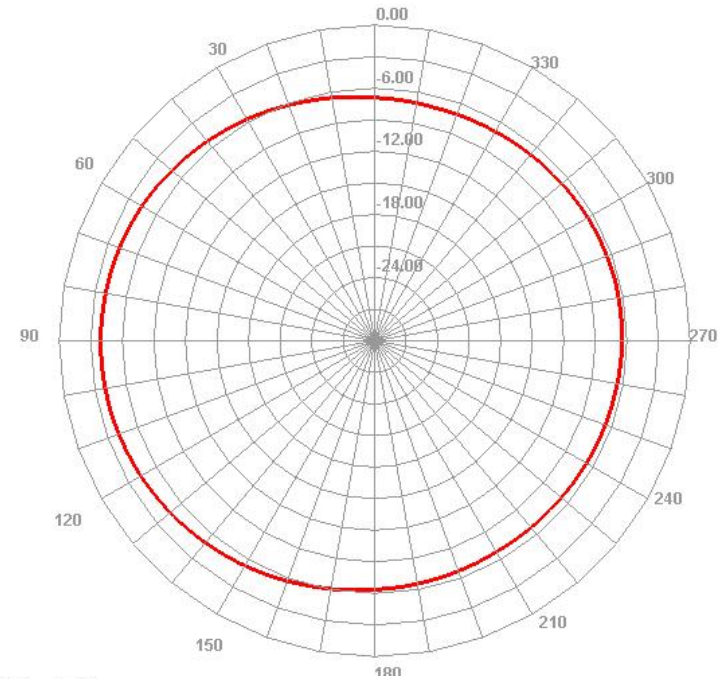


# Efficient ( 791-894MHz )

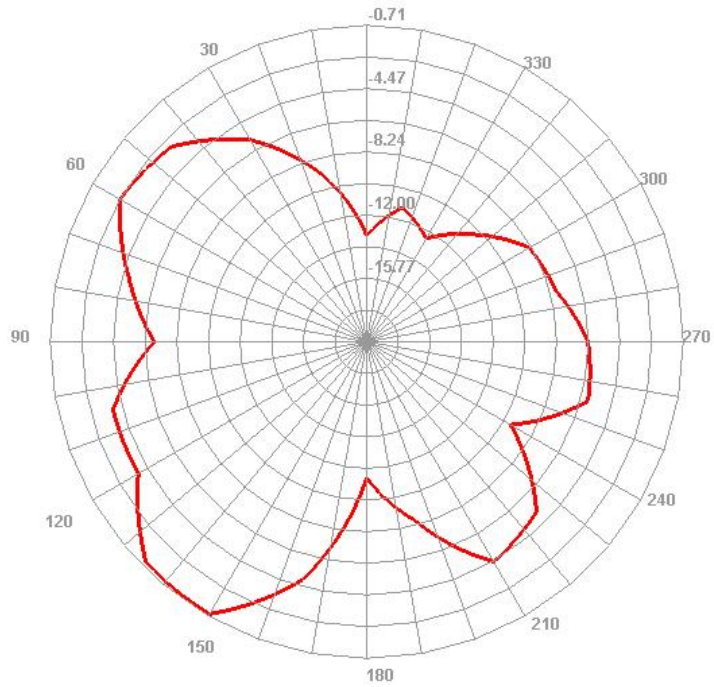
830.000MHz



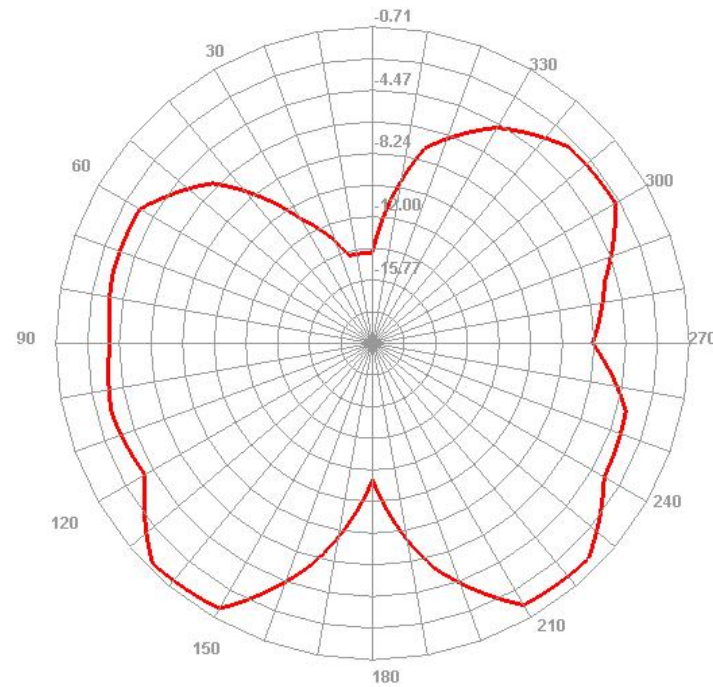
830.000MHz H



830.000MHz E1

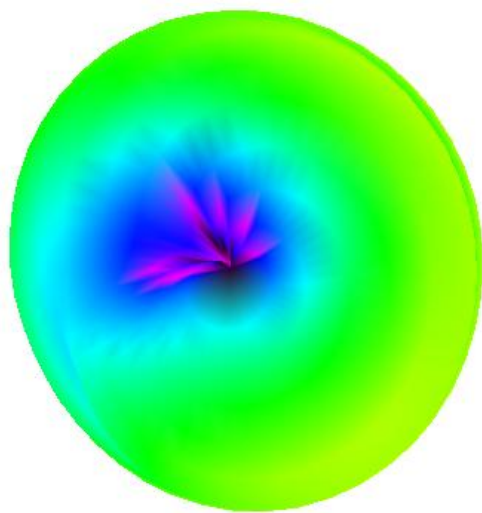


830.000MHz E2

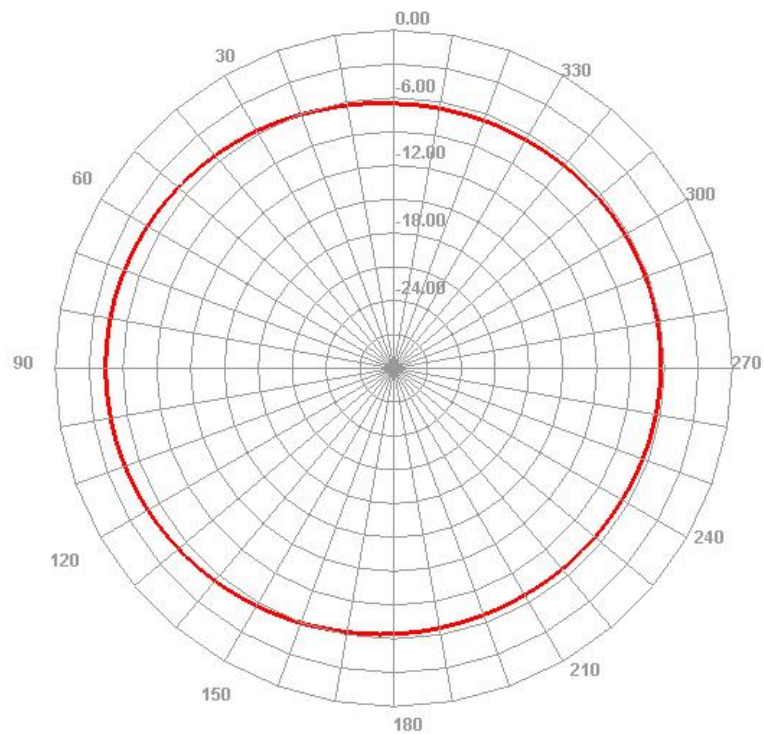


# Efficient ( 880-960MHz )

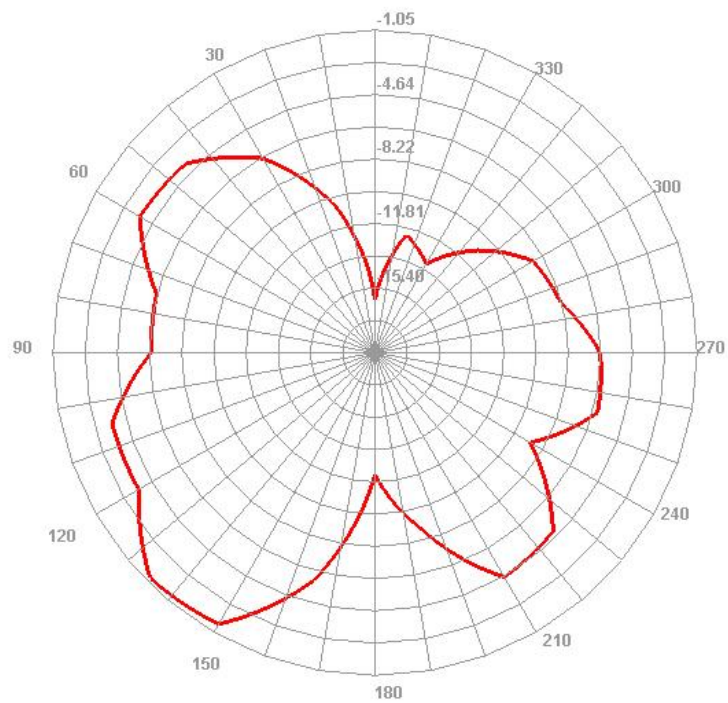
900.000MHz



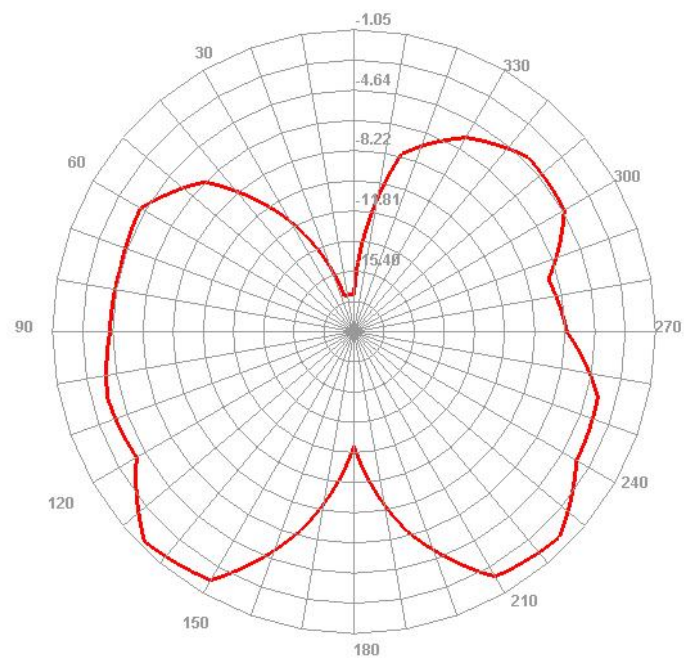
900.000MHz H



900.000MHz E1



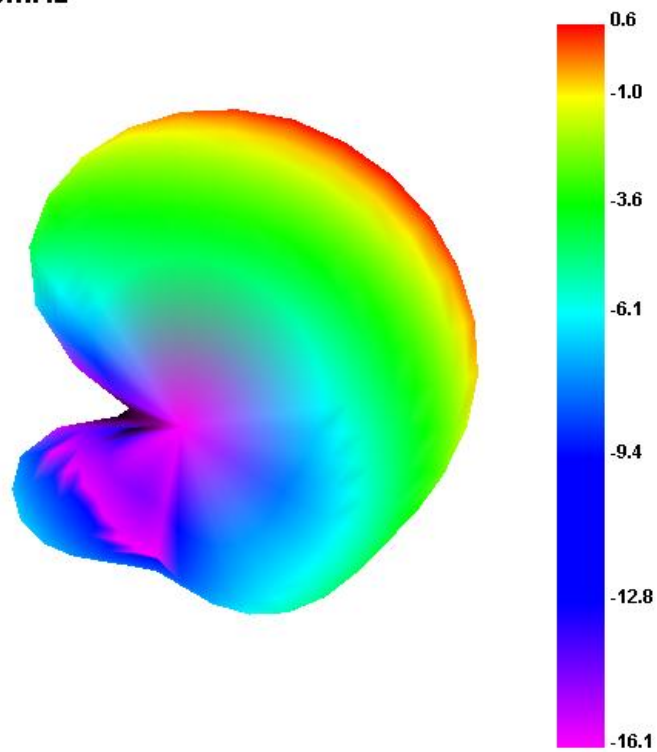
900.000MHz E2



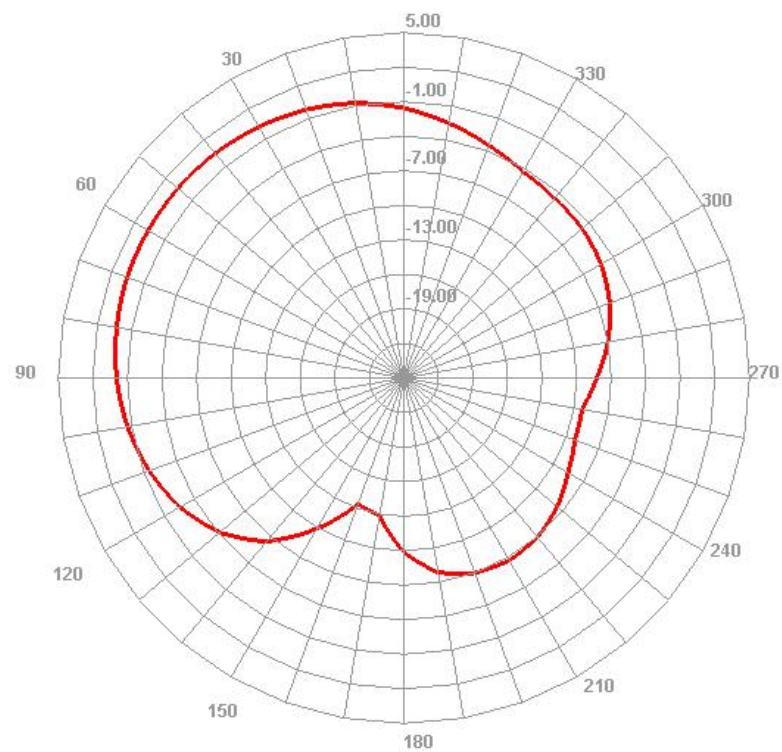


# Efficient (1710-1880MHz )

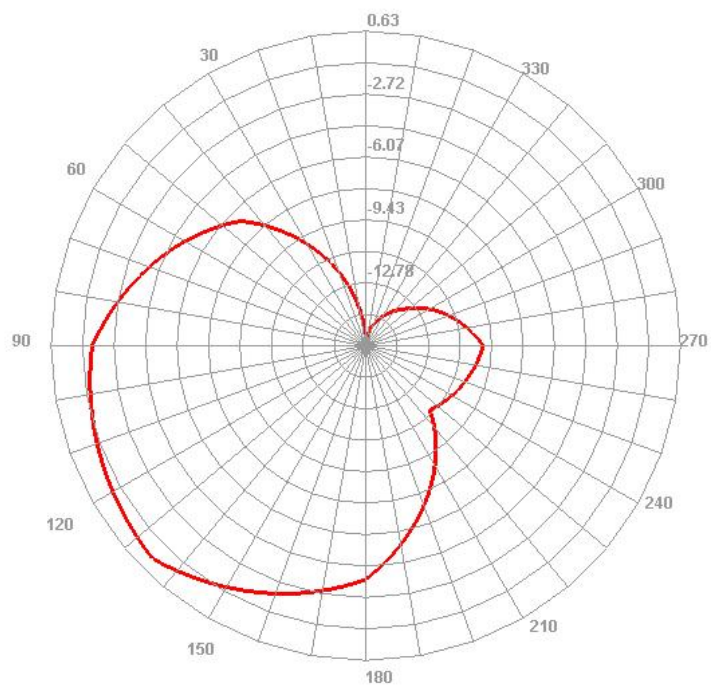
1820.000MHz



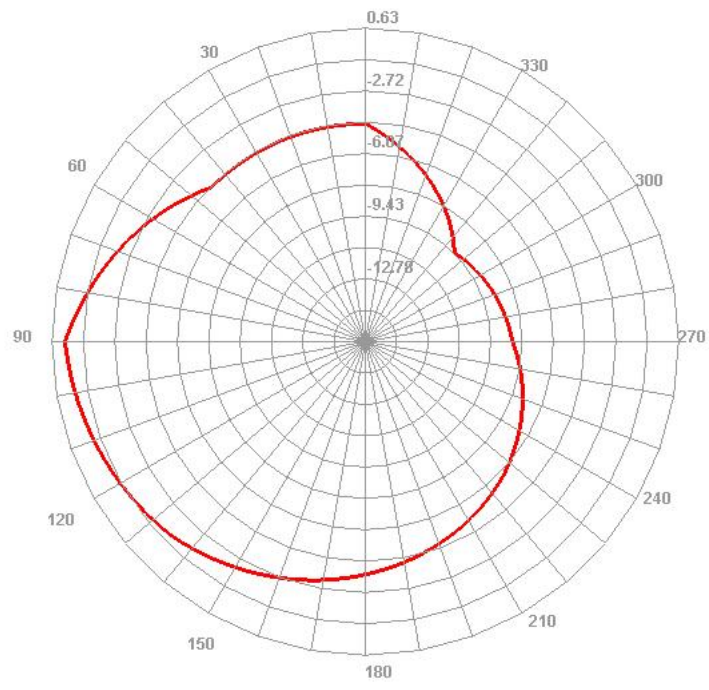
1820.000MHz H



1820.000MHz E1

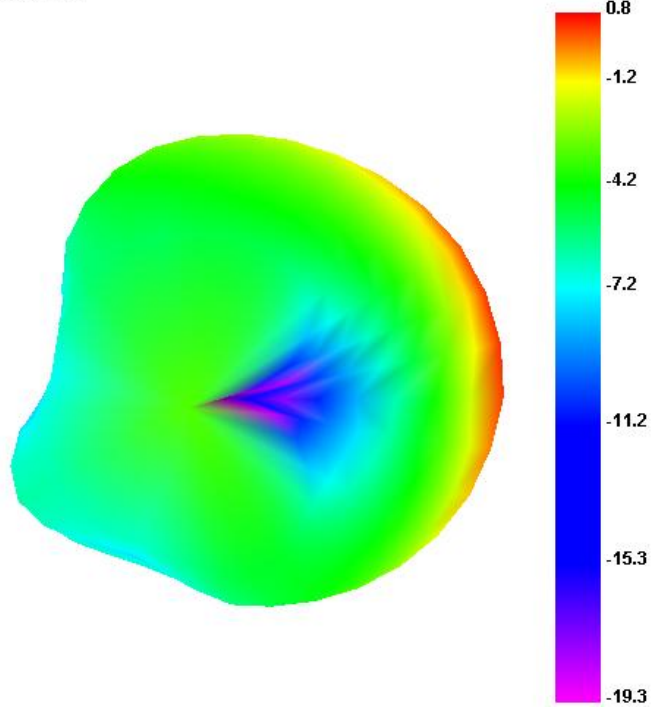


1820.000MHz E2

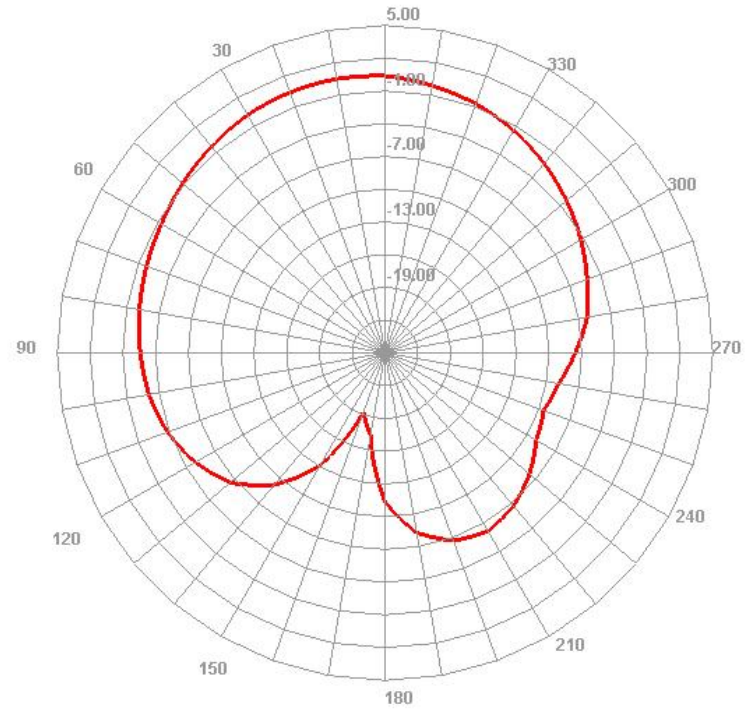


# Efficient ( 1710-1990MHz )

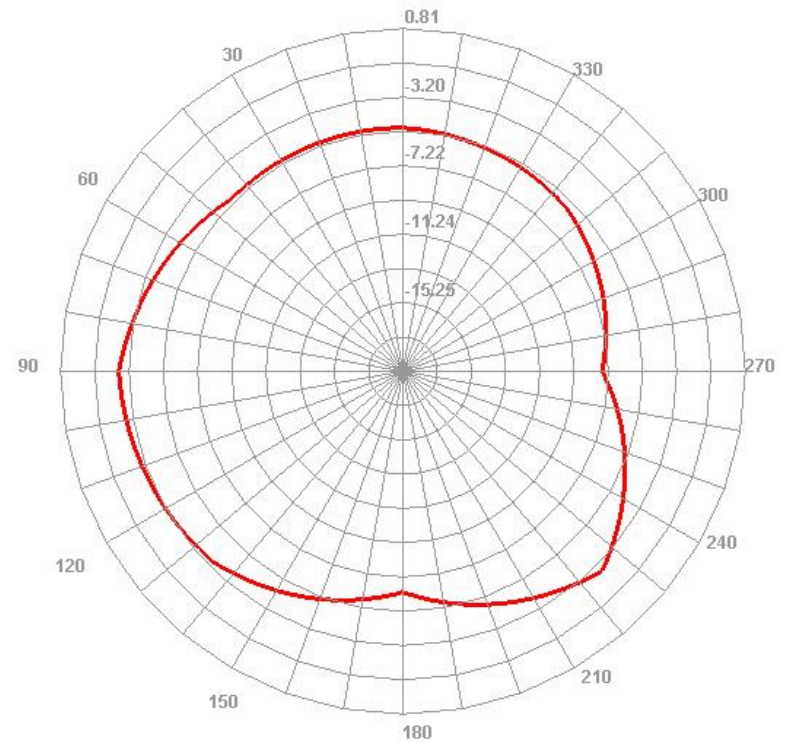
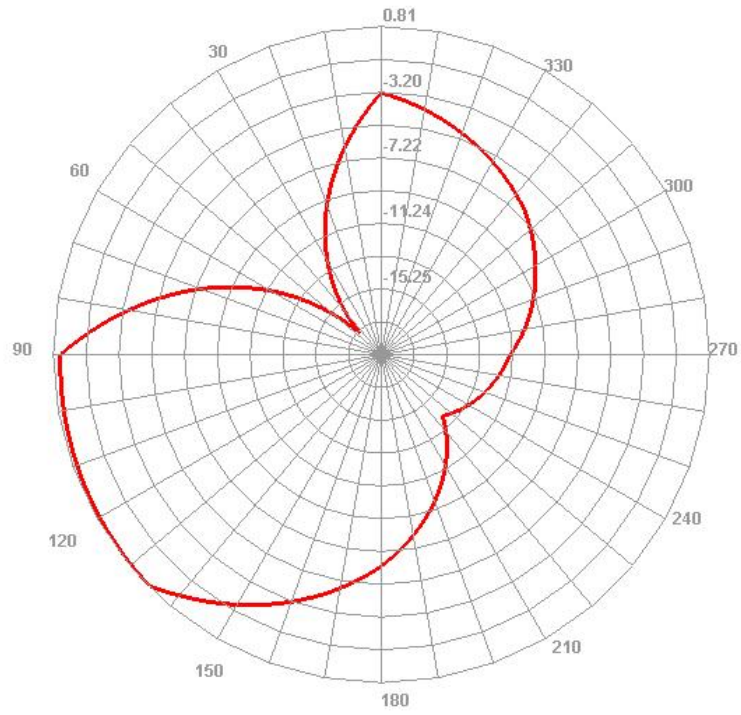
1920.000MHz



1920.000MHz H

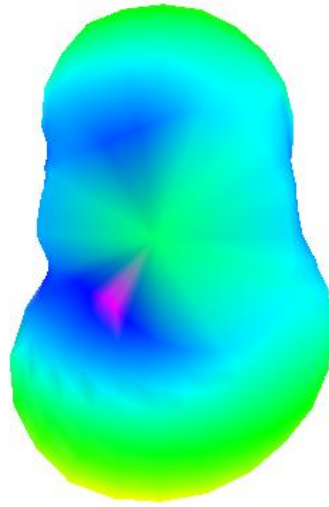


1920.000MHz E1

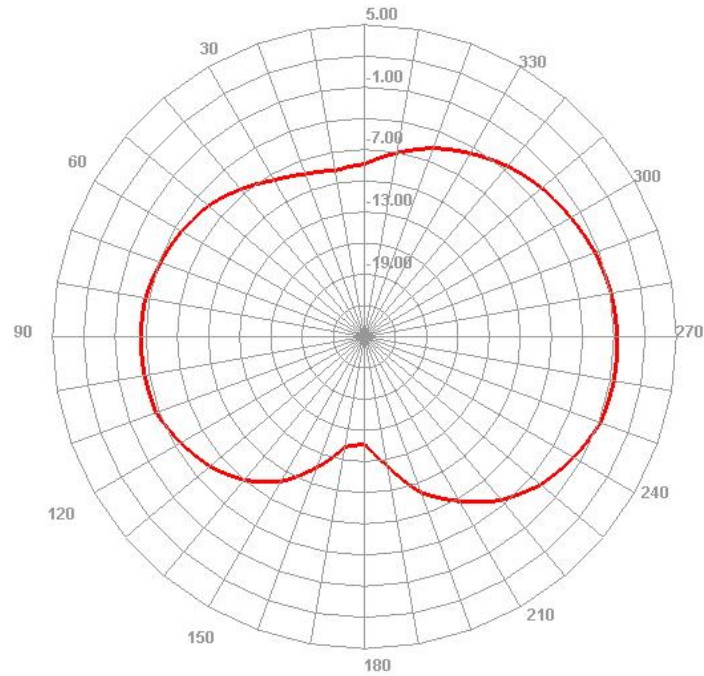


# Efficient ( 1920-2170MHz )

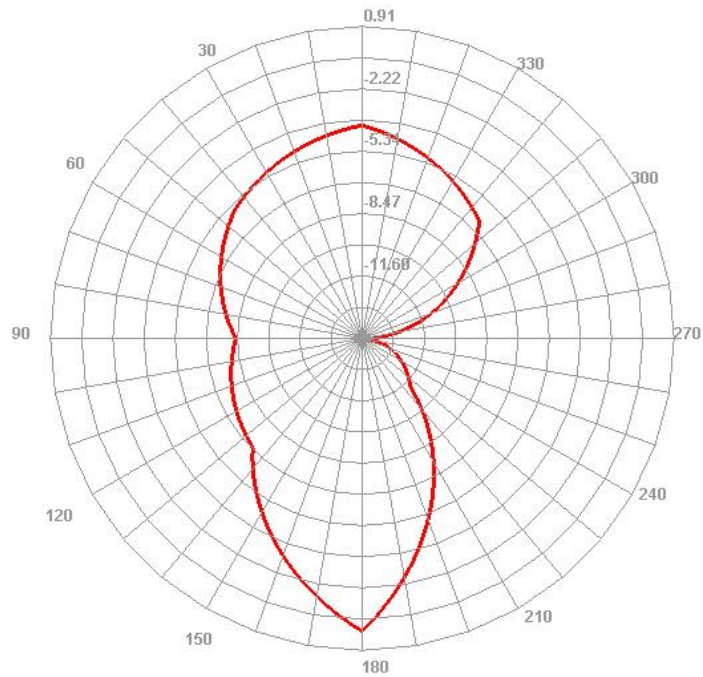
2010.000MHz



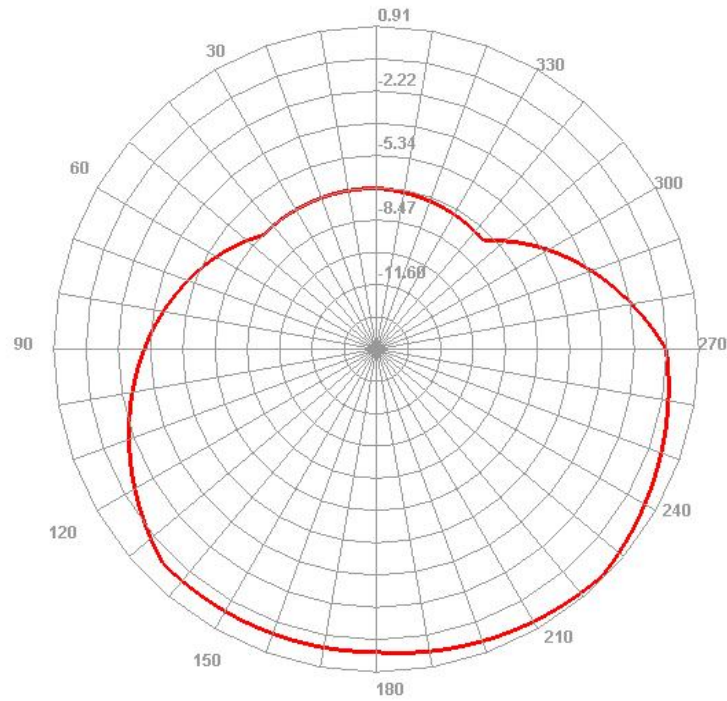
2010.000MHz H



2010.000MHz E1

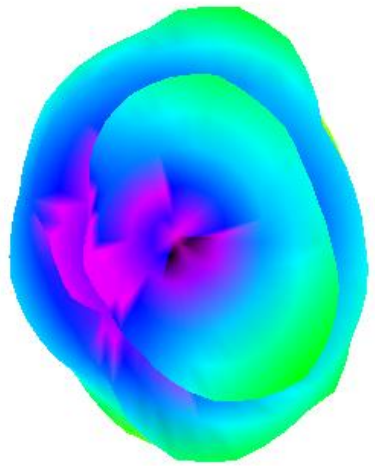


2010.000MHz E2

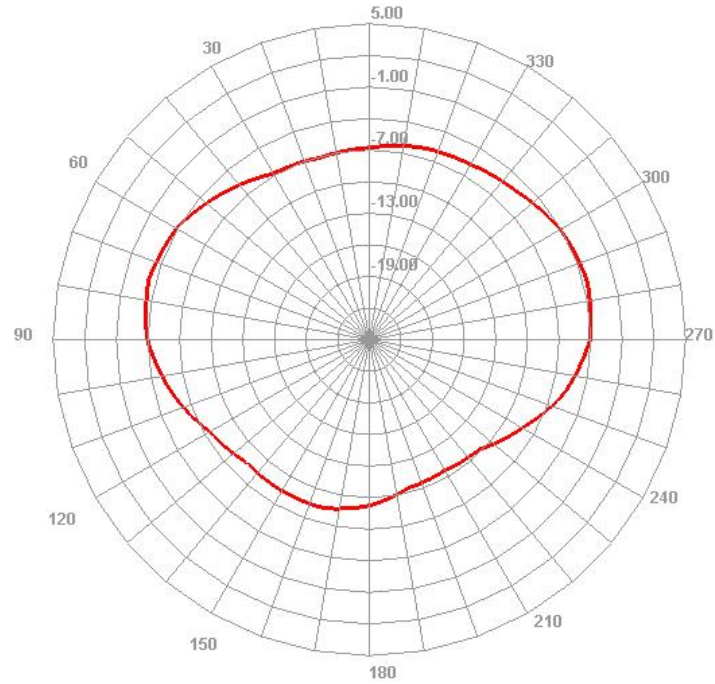


# Efficient ( 2300–2400MHz )

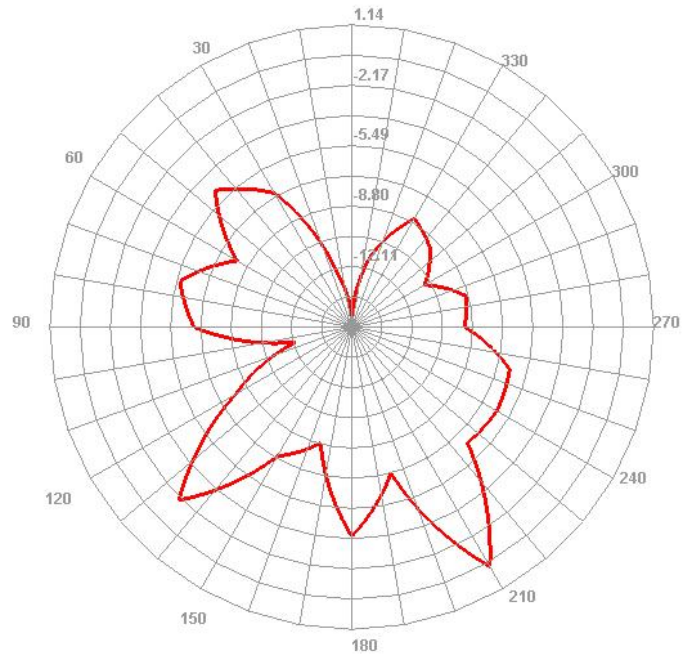
2370.000MHz



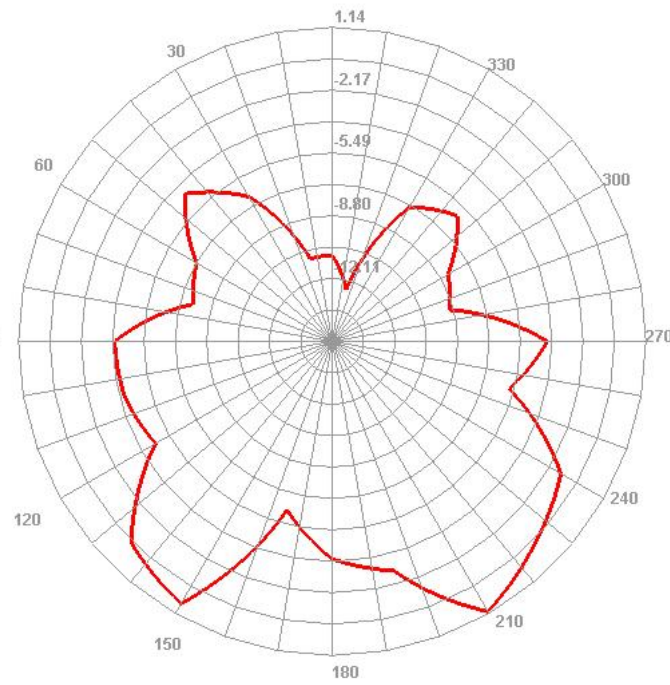
2370.000MHz H



2370.000MHz E1

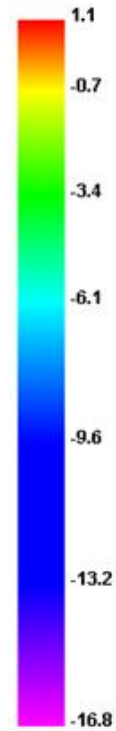
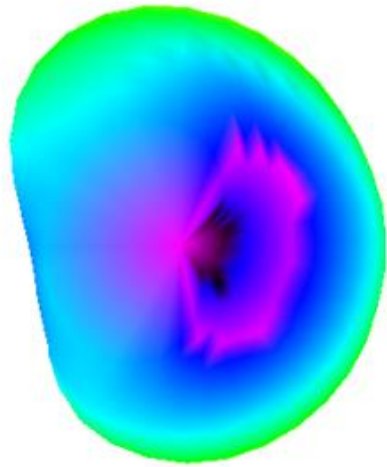


2370.000MHz E2

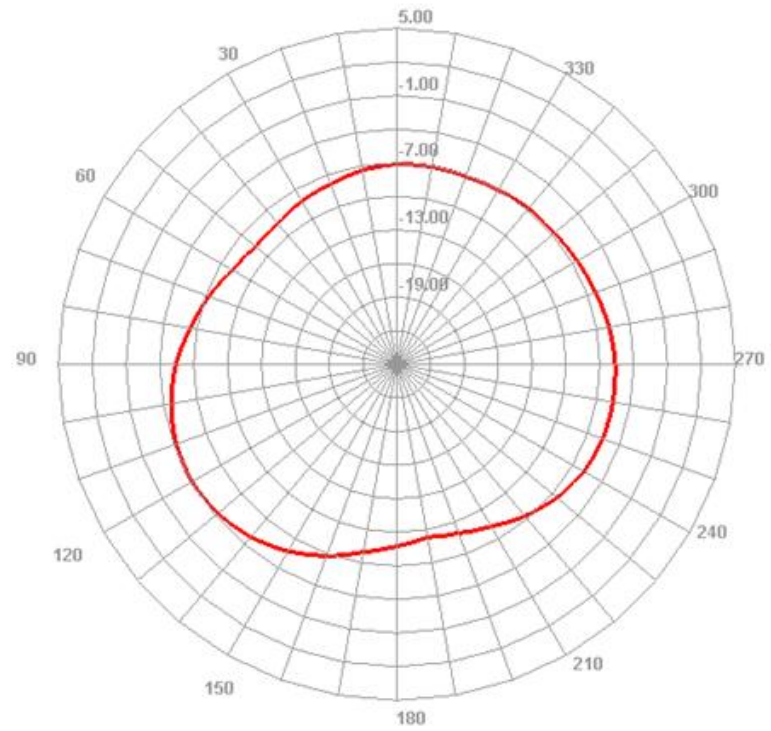


# Efficient ( 2500–2690MHz )

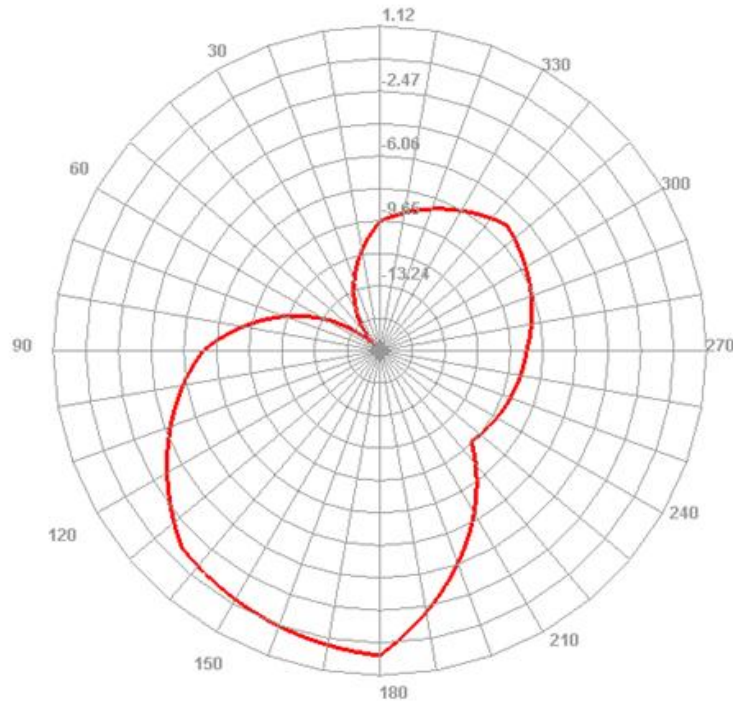
2660.000MHz



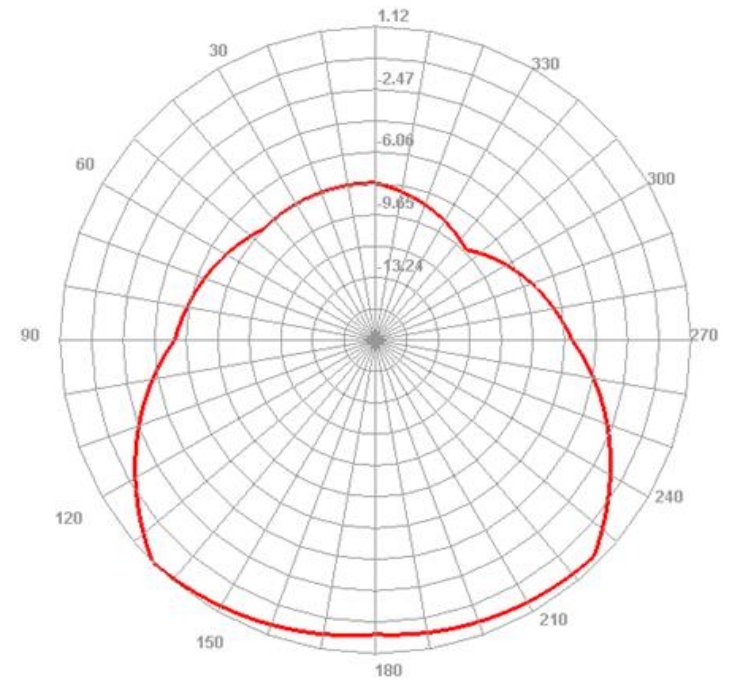
2660.000MHz H



2660.000MHz E1

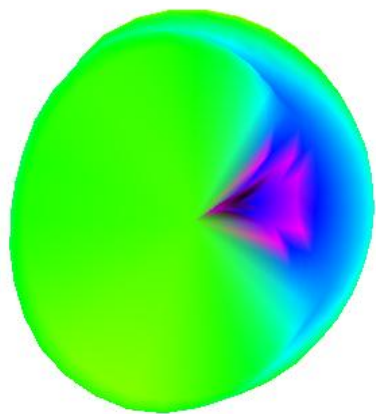


2660.000MHz E2

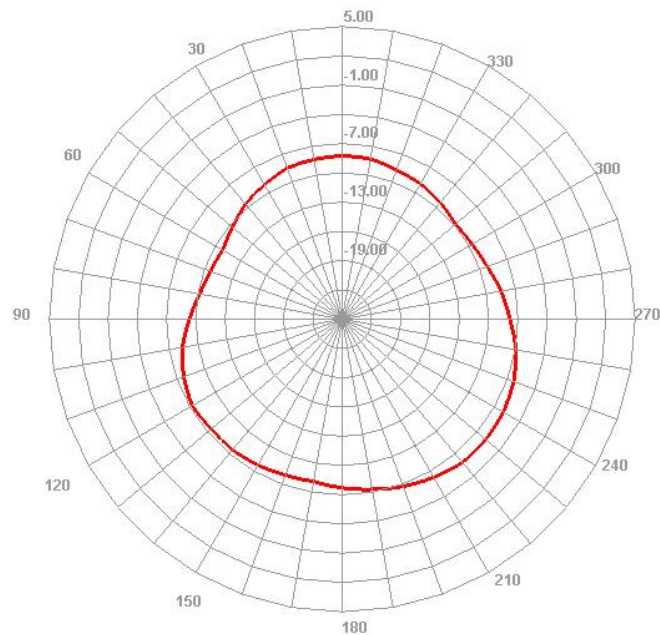


# Efficient ( 2.4G-WIFI/BT 2400-2500MHz )

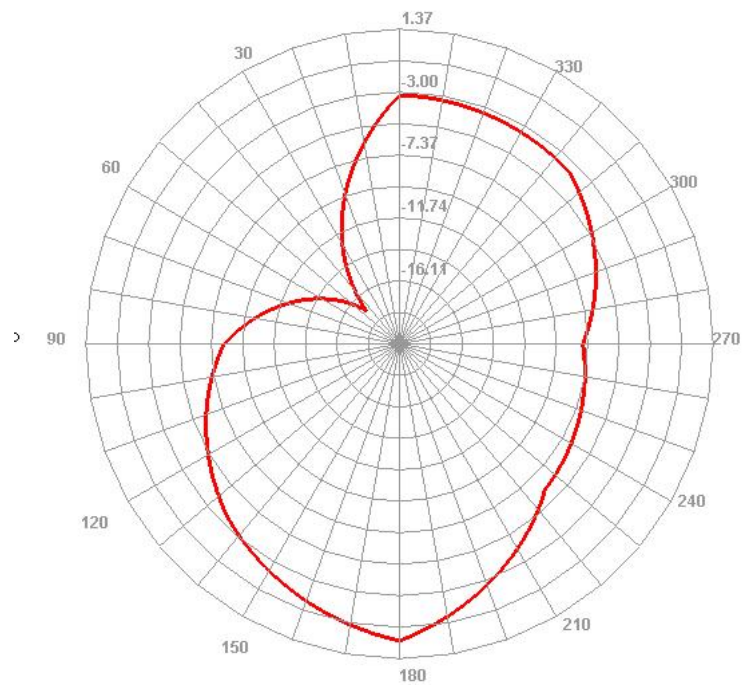
2450.000MHz



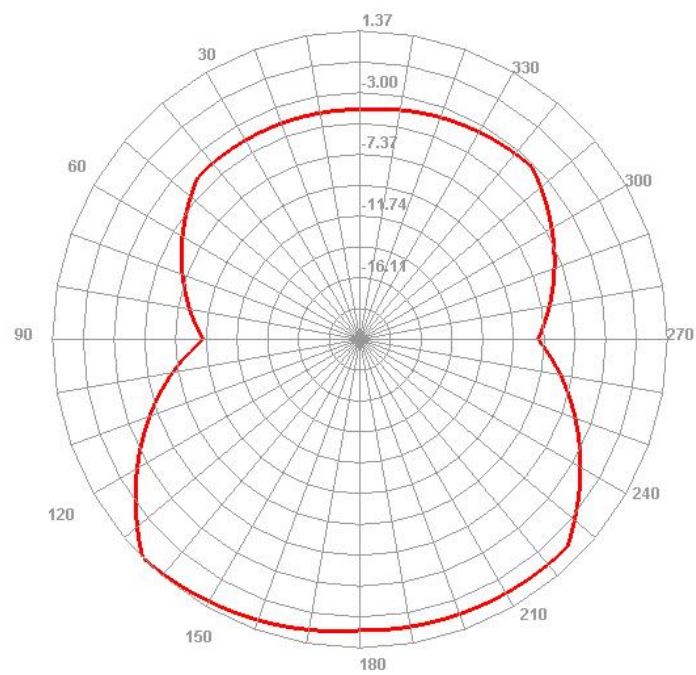
2450.000MHz H



2450.000MHz E1

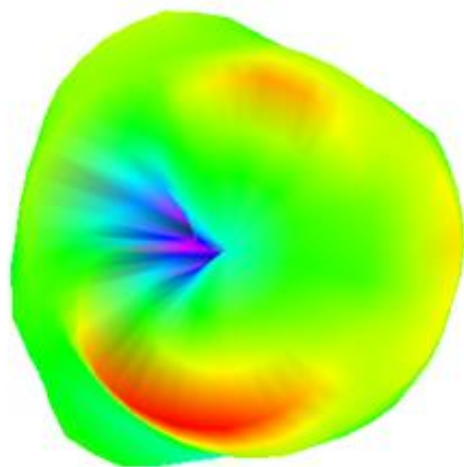


2450.000MHz E2

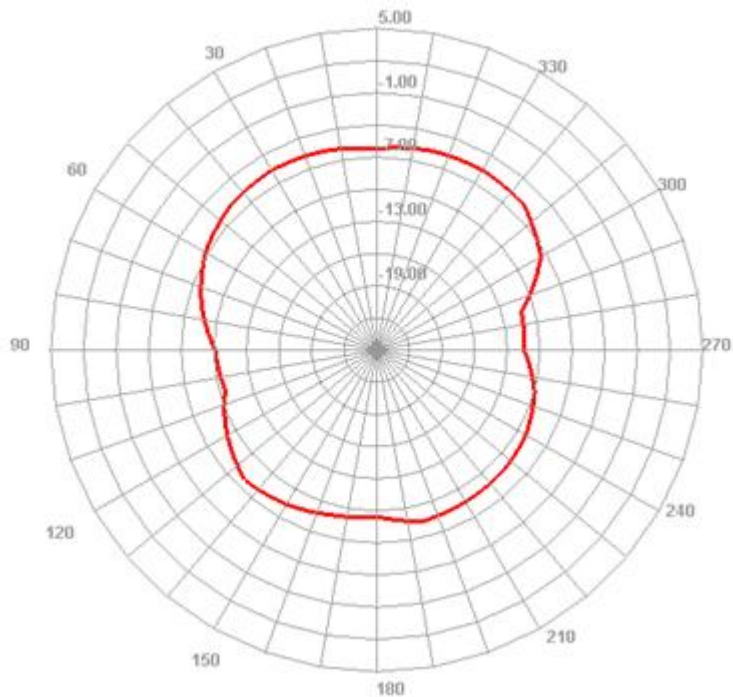


# Efficient ( GPS 1575.42MHz )

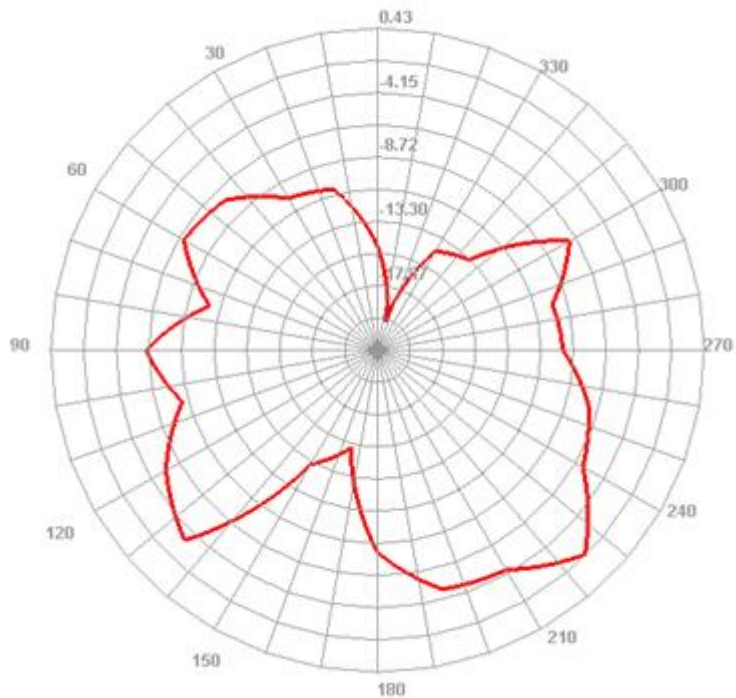
## 1575.491MHz



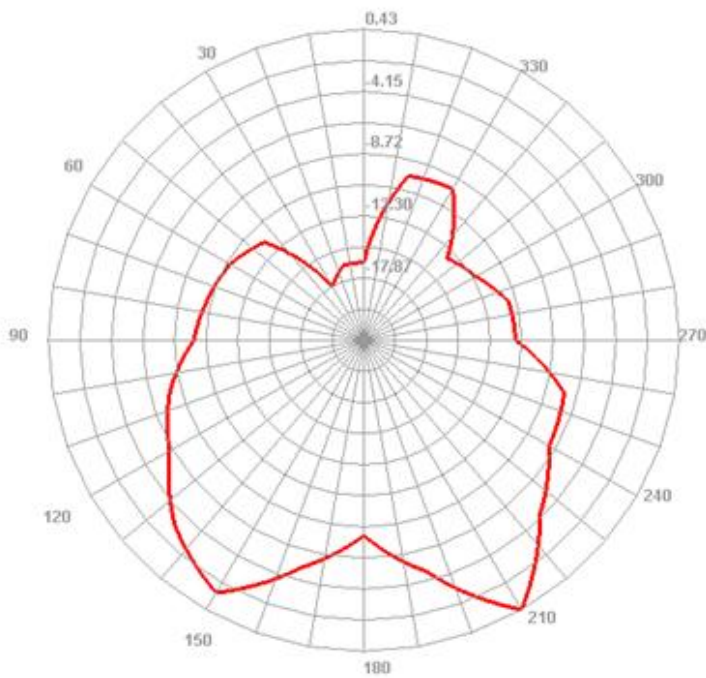
## 1575.491MHz H



## 1575.491MHz E1



## 1575.491MHz E2



# Master antenna specifications

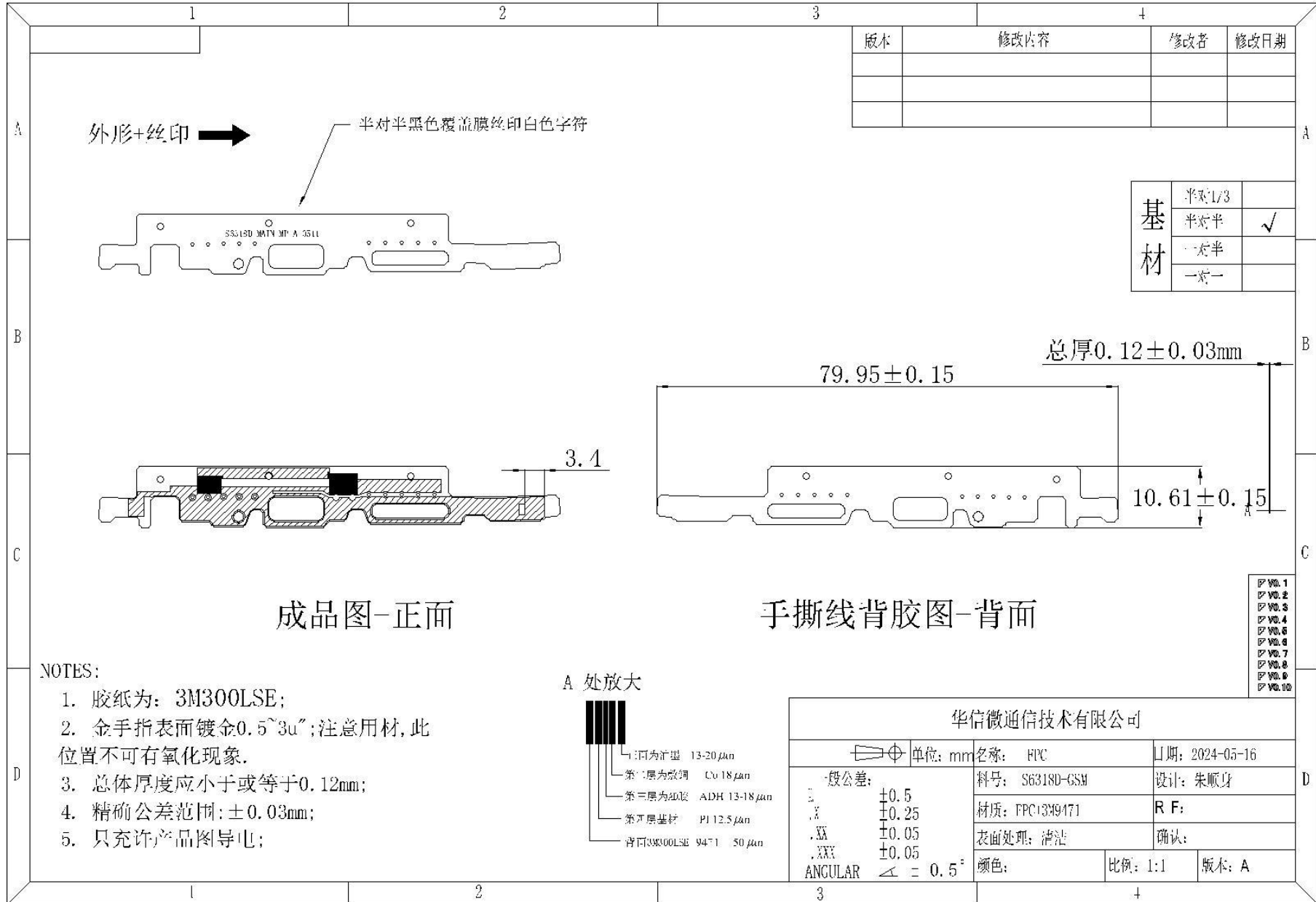
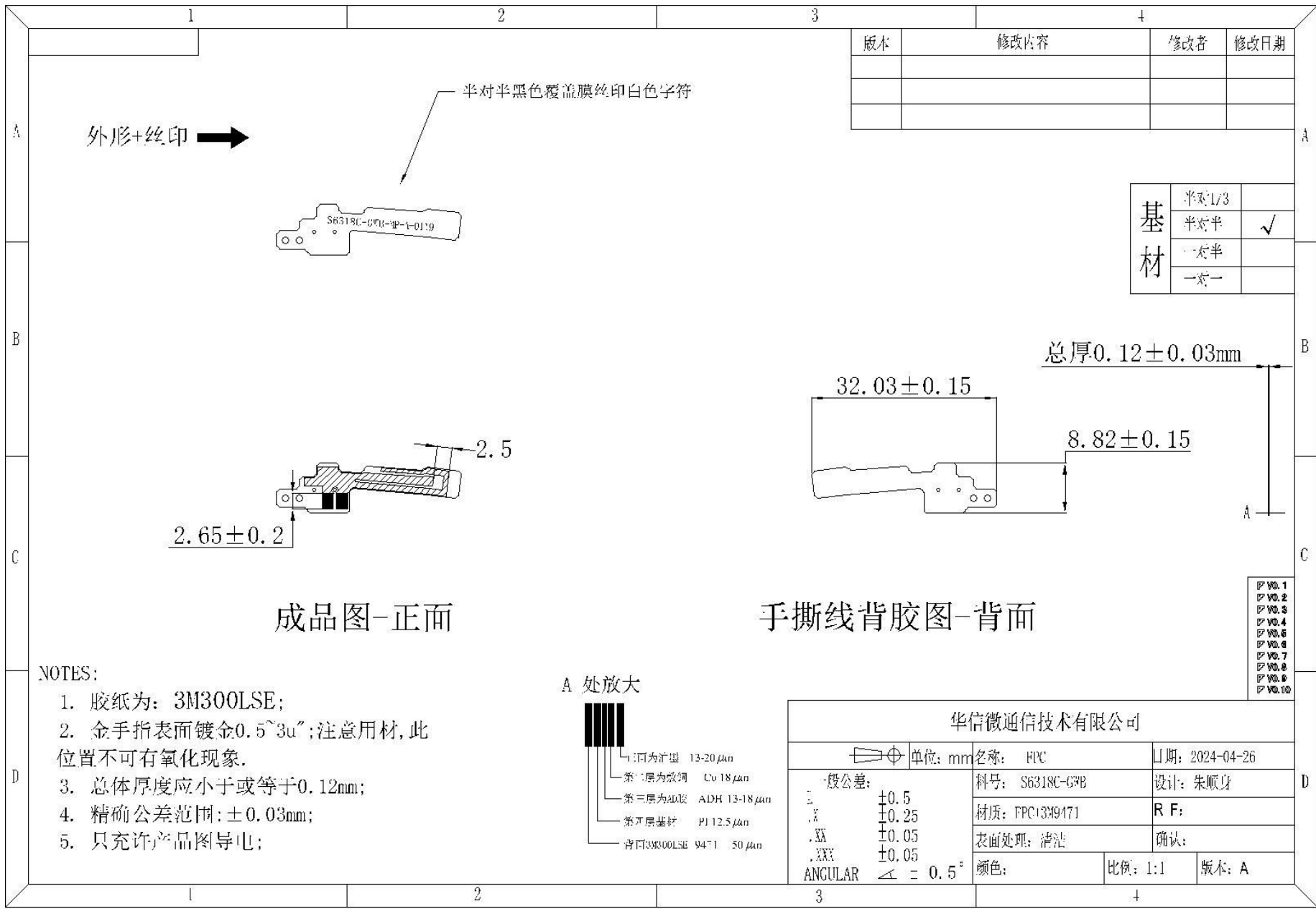


图 1  
 图 2  
 图 3  
 图 4  
 图 5  
 图 6  
 图 7  
 图 8  
 图 9  
 图 10





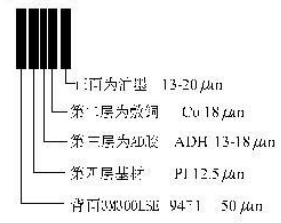
版本	修改内容	修改者	修改日期

基材	半对1/3	
	半对半	✓
	一对半	
	一对一	

NOTES:

1. 胶纸为: 3M300LSE;
2. 金手指表面镀金0.5~3u";注意用材,此位置不可有氧化现象.
3. 总体厚度应小于或等于0.12mm;
4. 精确公差范围: ±0.03mm;
5. 只允许产品图导电;

A 处放大



手撕线背胶图-背面

华信微通信技术有限公司			
单位: mm	名称: FPC	日期: 2024-04-26	
一般公差:	料号: S6318C-G3B	设计: 朱顺身	
.X ±0.5	材质: FPC13M9171	RF:	
.XX ±0.25	表面处理: 清洁	确认:	
.XXX ±0.05	颜色:	比例: 1:1	版本: A
ANGULAR <= 0.5°			

☑	VER. 1
☑	VER. 2
☑	VER. 3
☑	VER. 4
☑	VER. 5
☑	VER. 6
☑	VER. 7
☑	VER. 8
☑	VER. 9
☑	VER. 10

# Diversity antenna specifications

