



ShenZhen Huaxinwei communication technology
Co.,Ltd.

Antenna test report

Customer Name: TianRuiXiang

Project Name: S6807-06F

Designer: Zhang Jun

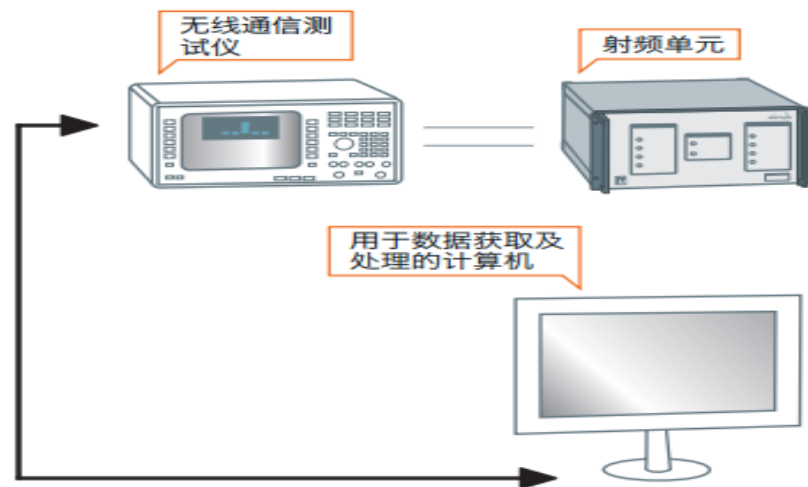
Date: 2024/07/03



The customer name		TianRuiXiang	Project Name	S6807-06F
NO.	project	Detailed above		
1	spectrum	GSM850/900/1800/1900+WCDMA-B1/2/4/5/8+LTE-B1/2/3/4/5/7/8/12/17/19/20/25/26/28/66+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		Zhang Jun	13430515055	hxxw_xiaozhang@126.com

Test system and test equipment

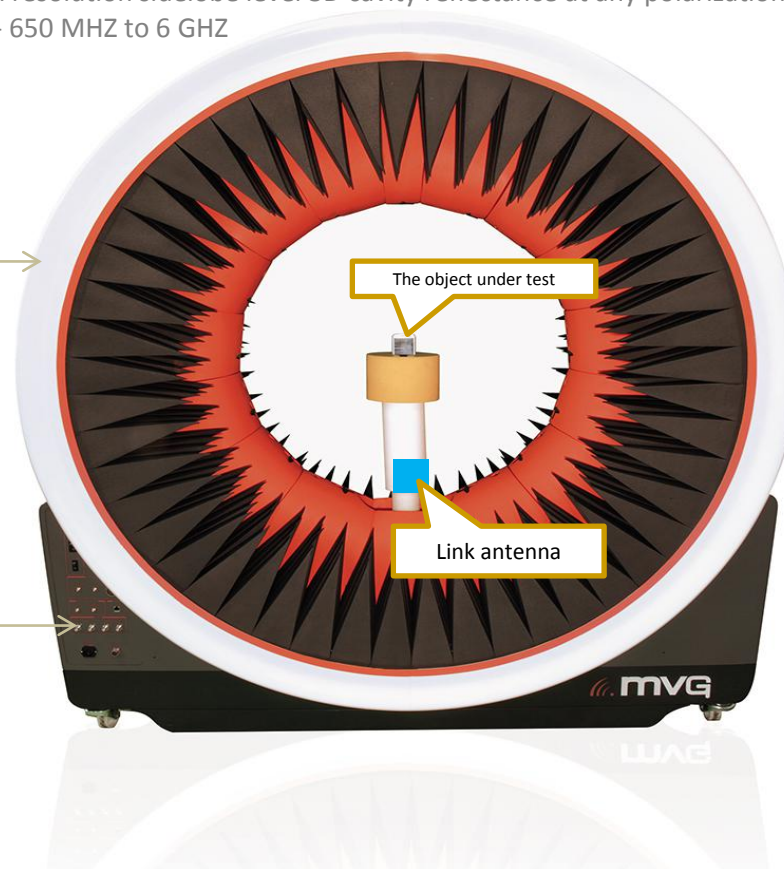
System Brand: MVG(SATIMO) measurement features: gain • pattern beamwidth cross polarization resolution sidelobe level 3D cavity reflectance at any polarization cavity reflectance (line or arc) antenna efficiency TRP, TIS, EIRP and EIS. Frequency band: StarLab 6 GHZ - 650 MHZ to 6 GHZ



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 ²
快速CDMA		8 min			No
EIRP模式+TIS补偿				10 min	No

1、根据RTC
2、根据协议



TIS 3D方位切割强度图



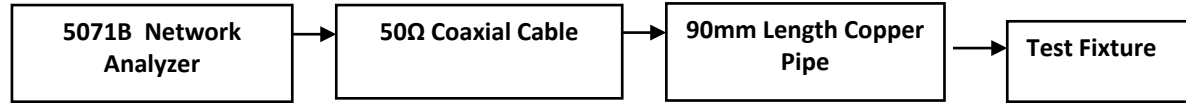
TRP 3D方位切割强度图

Test Equipment

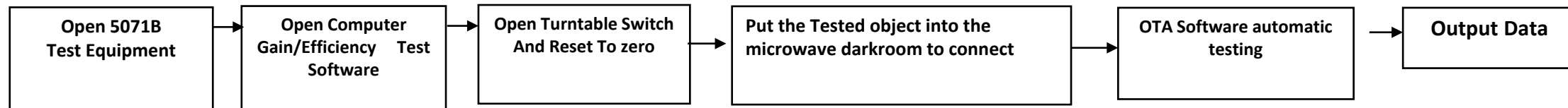


Test Steps

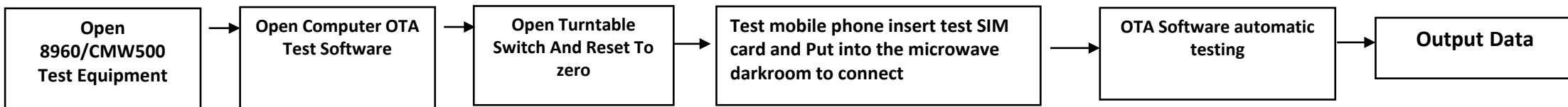
Passive VSWR/RL Test Steps:



Gain/Efficiency Test Steps:



Active TRP/TIS Test Steps:

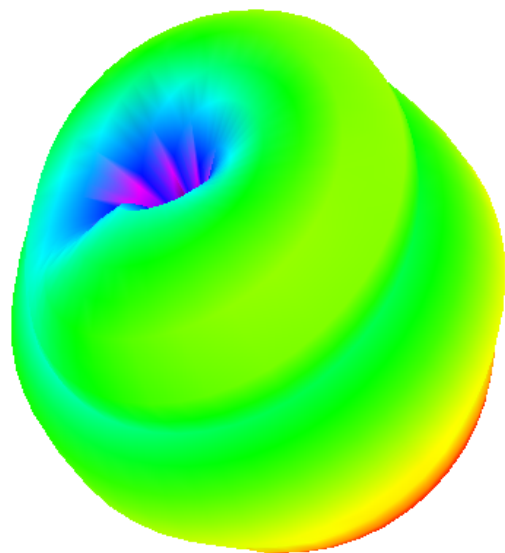


Efficient (2G+3G+4G+2. 4G-WiFi /BT) Antenna Effi Gain

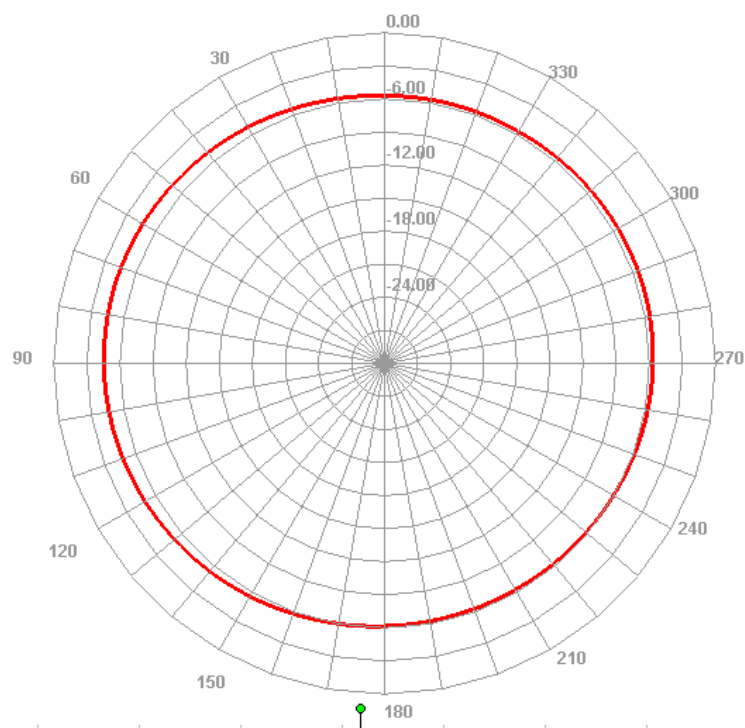
PEAK GAIN			
2G:	Frequency range	Effi %	Gaim dBi
GSM850	824~894Mhz	21. 52	-2. 63
GSM900	880~960Mhz	20. 37	-2. 18
DCS1800	1710~1880Mhz	28. 35	0. 63
PCS1900	1850~1990Mhz	30. 62	0. 81
3G:			
W1	1920~2170Mhz	37. 45	0. 91
W2	1850~1990Mhz	30. 81	0. 81
W4	1710~2155Mhz	30. 57	0. 92
W5	824~894Mhz	21. 52	-2. 63
W8	880~960Mhz	20. 37	-2. 18
4G:			
LTE-B1	1920~2170Mhz	37. 45	0. 91
LTE-B2	1850~1990Mhz	30. 81	0. 81
LTE-B3	1710~1880Mhz	28. 62	0. 63
LTE-B4	1710~2155Mhz	30. 57	0. 92
LTE-B5	824~894Mhz	21. 52	-2. 63
LTE-B7	2500~2690Mhz	28. 01	1. 12
LTE-B8	880~960Mhz	20. 37	-2. 18
LTE-B12	698~746Mhz	19. 03	-1. 42
LTE-B17	704~746Mhz	19. 03	-1. 42
LTE-B19	830~890Mhz	21. 52	-2. 63
LTE-B20	791~845Mhz	21. 52	-2. 63
LTE-B25	1855~19900Mhz	30. 62	0. 81
LTE-B26	819~889Mhz	21. 52	-2. 63
LTE-B28	708~798Mhz	19. 03	-1. 42
LTE-B66	1710~2170Mhz	30. 62	0. 92
5G-WIFI	5150~5250Mhz	37. 81	1. 81
	5725~5850Mhz	37. 16	1. 91
2. 4G-WIFI	2400~2500Mhz	42. 70	1. 87
BT	2400~2500Mhz	42. 70	1. 87
GPS	1575Mhz	38. 73	1. 19

Efficient (698–746MHz)

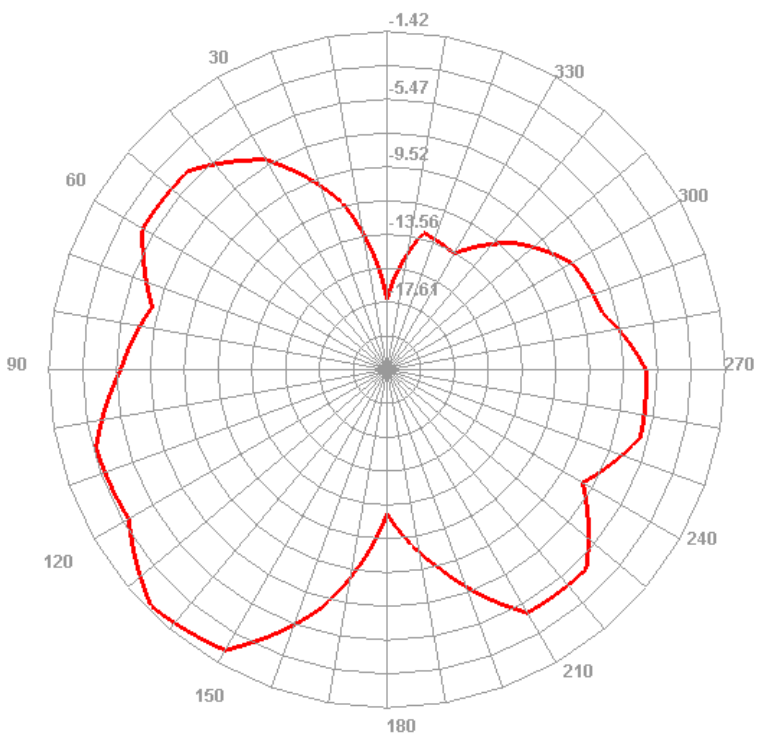
710.000MHz



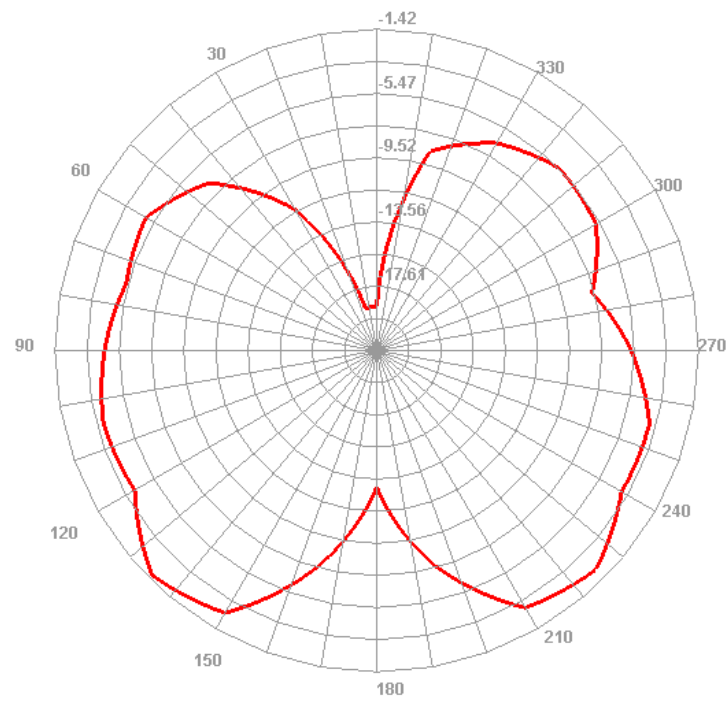
710.000MHz H



710.000MHz E1

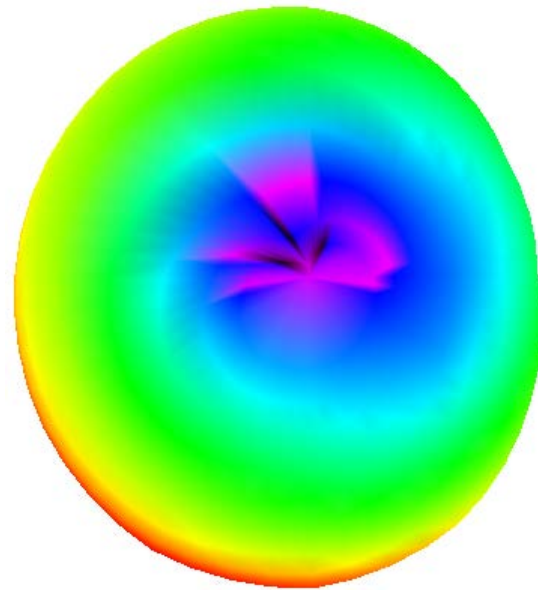


710.000MHz E2

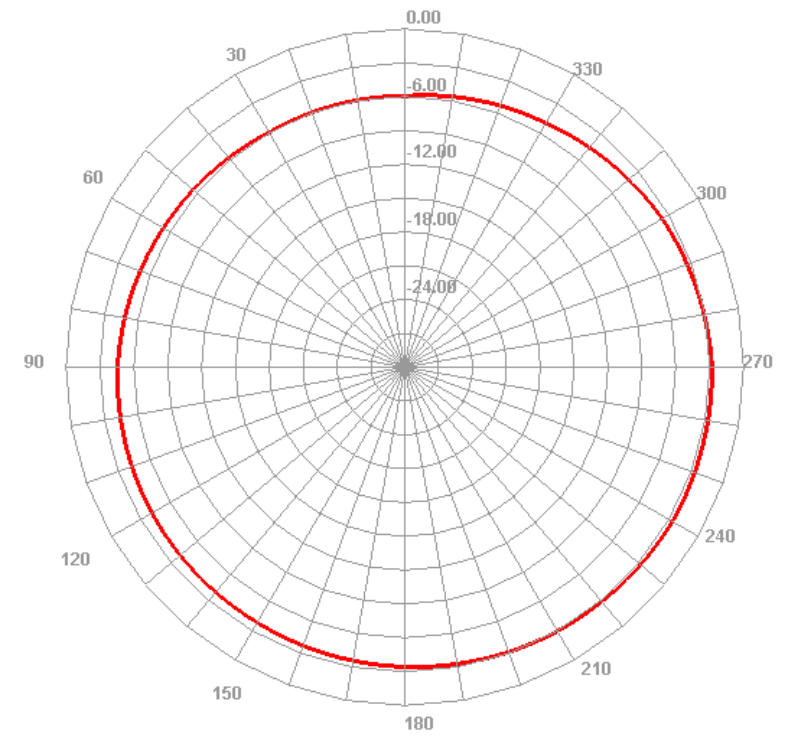


Efficient (791-894MHz)

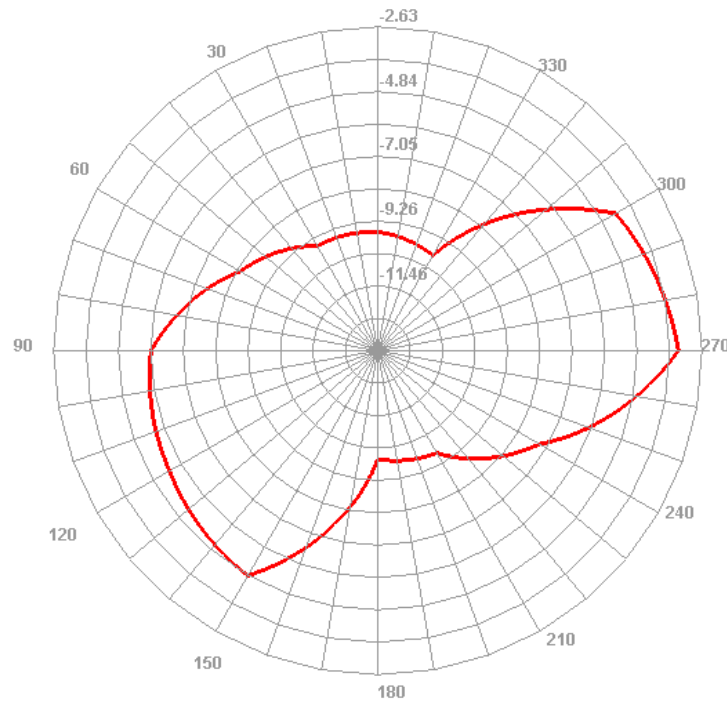
830.000MHz



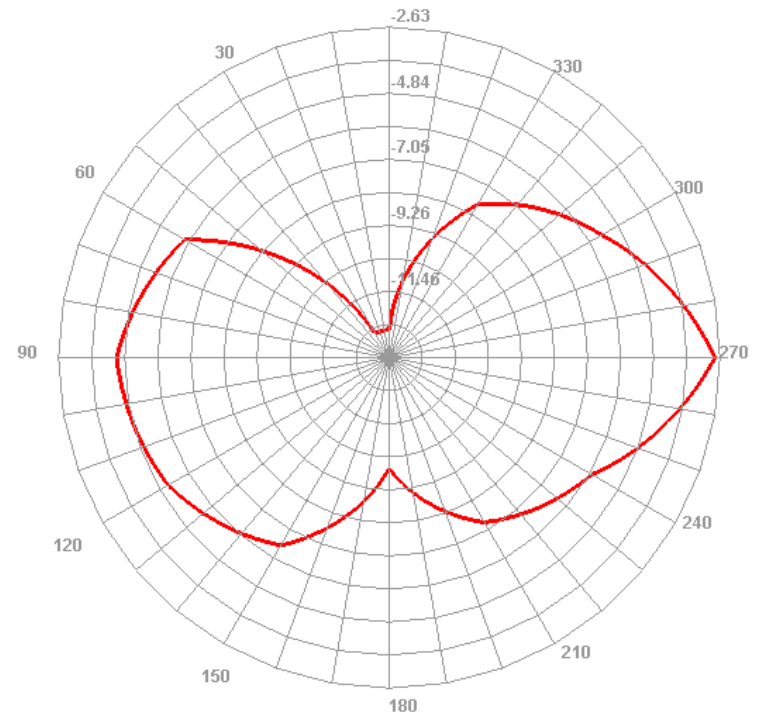
830.000MHz H



830.000MHz E1

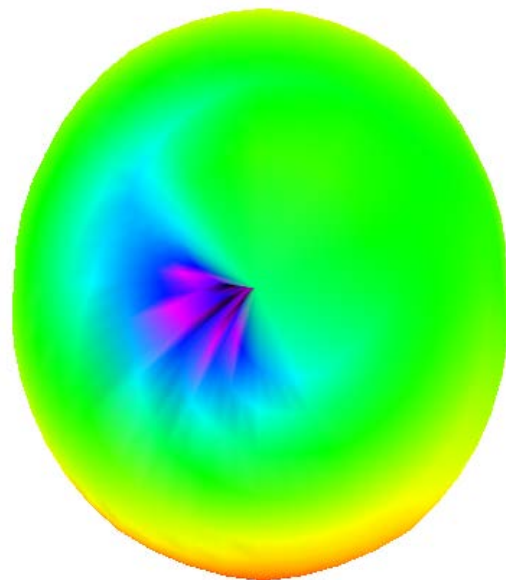


830.000MHz E2

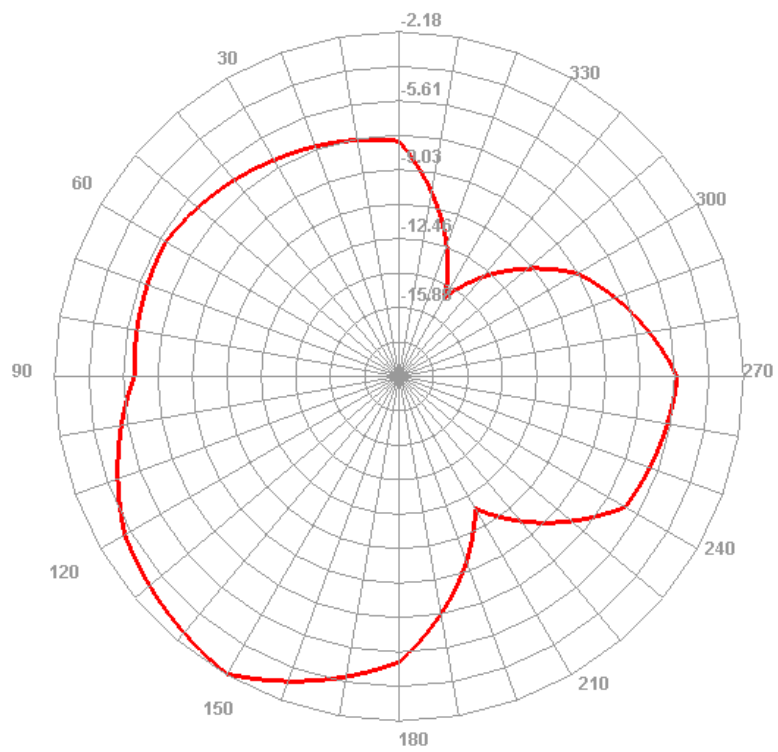


Efficient (880–960MHz)

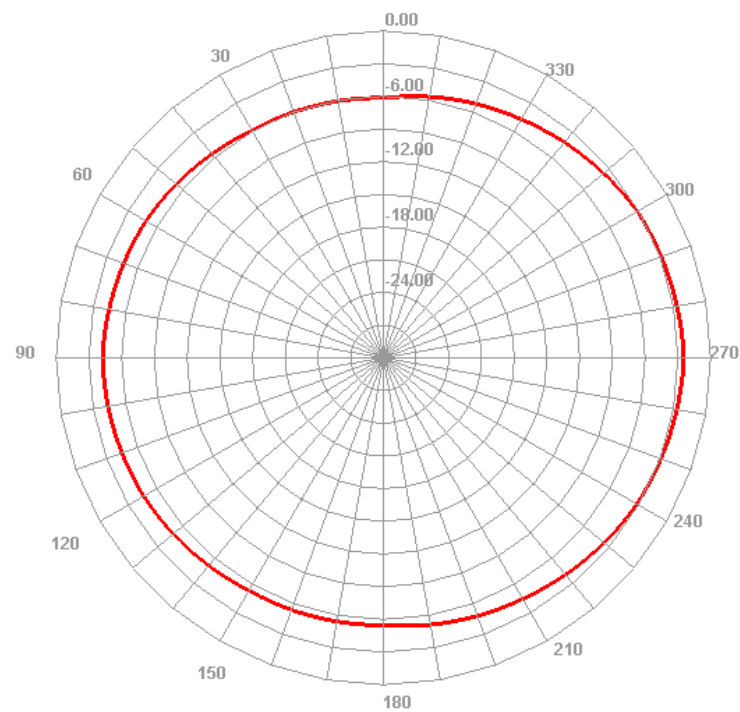
930.000MHz



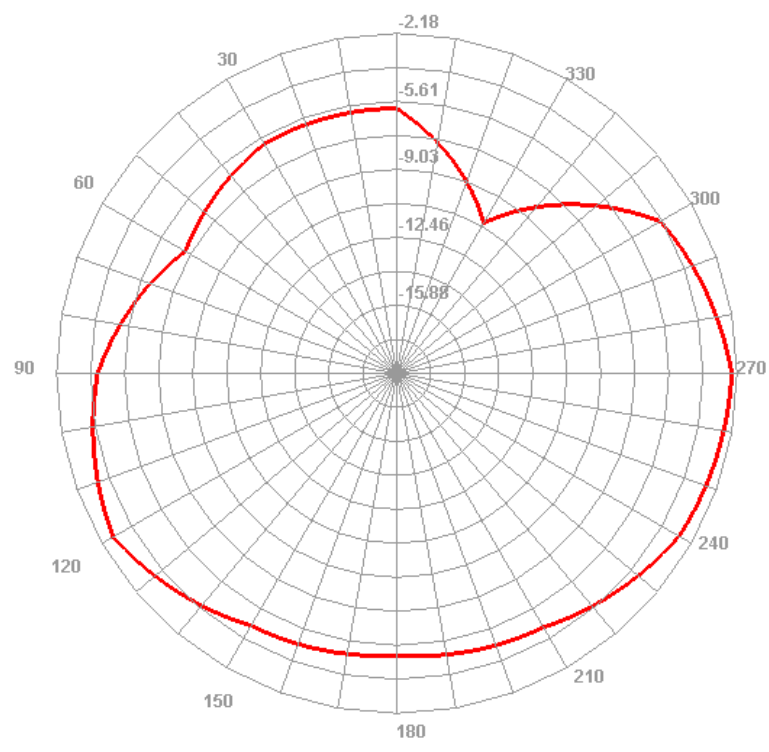
930.000MHz E1



930.000MHz H

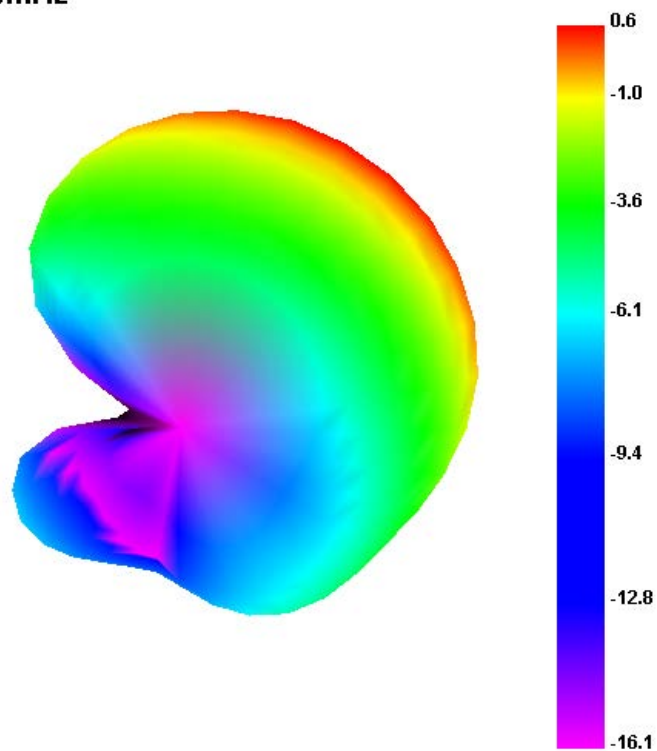


930.000MHz E2

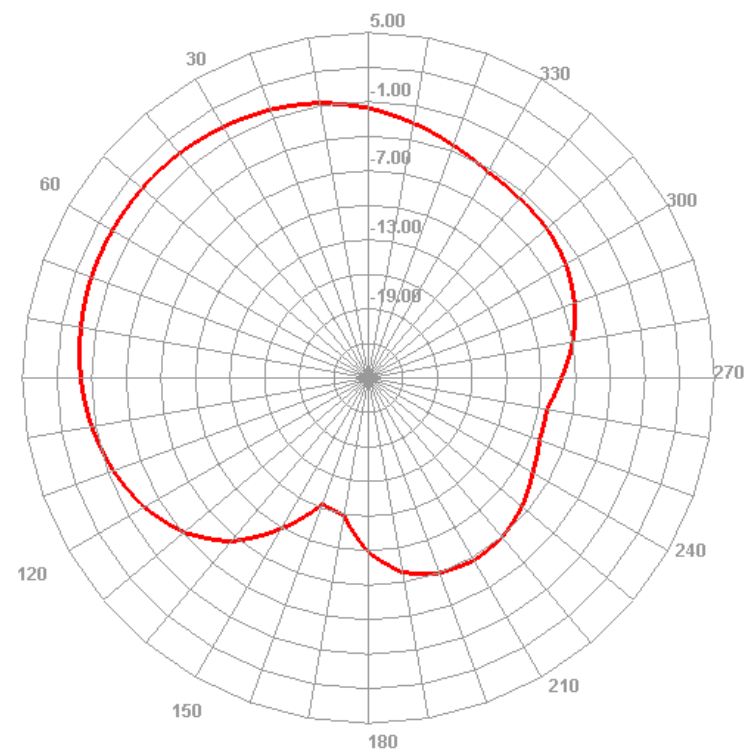


Efficient (1710–1880MHz)

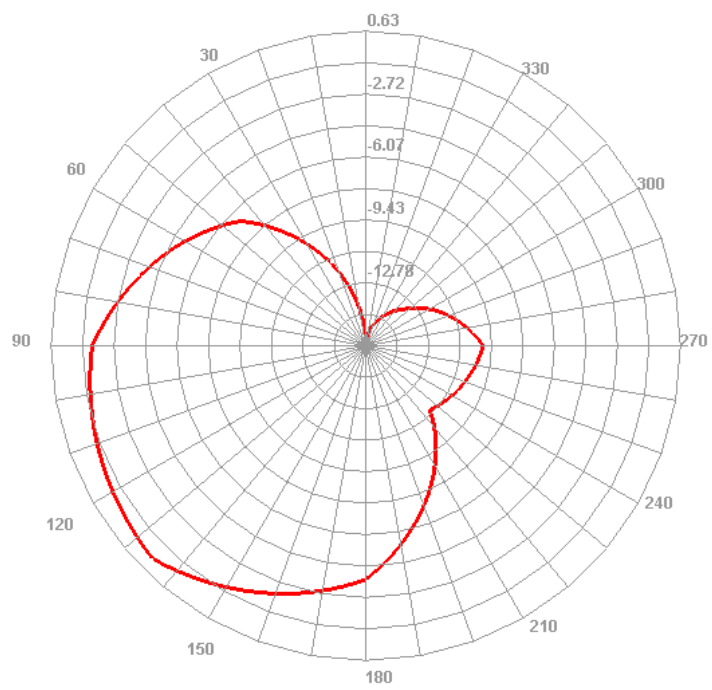
1820.000MHz



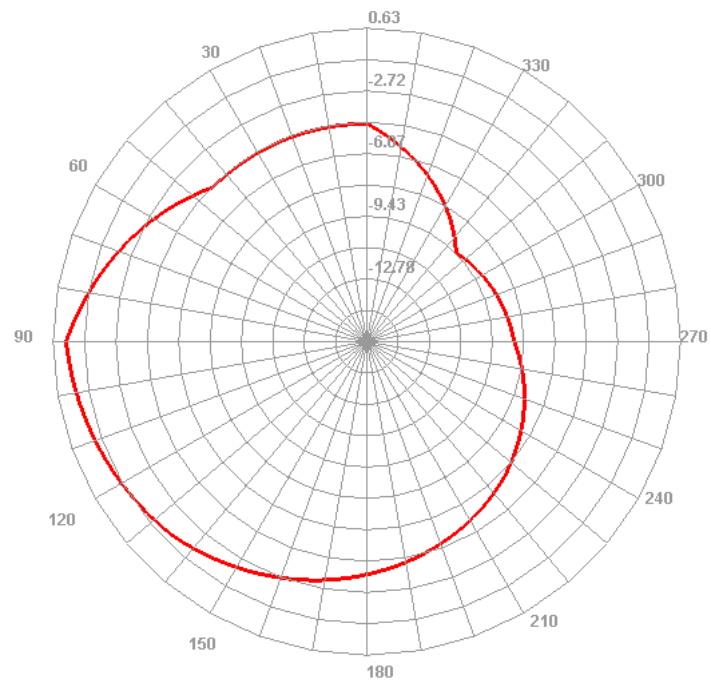
1820.000MHz H



1820.000MHz E1

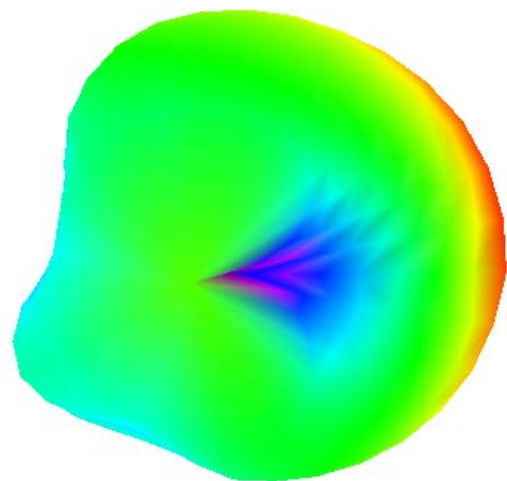


1820.000MHz E2

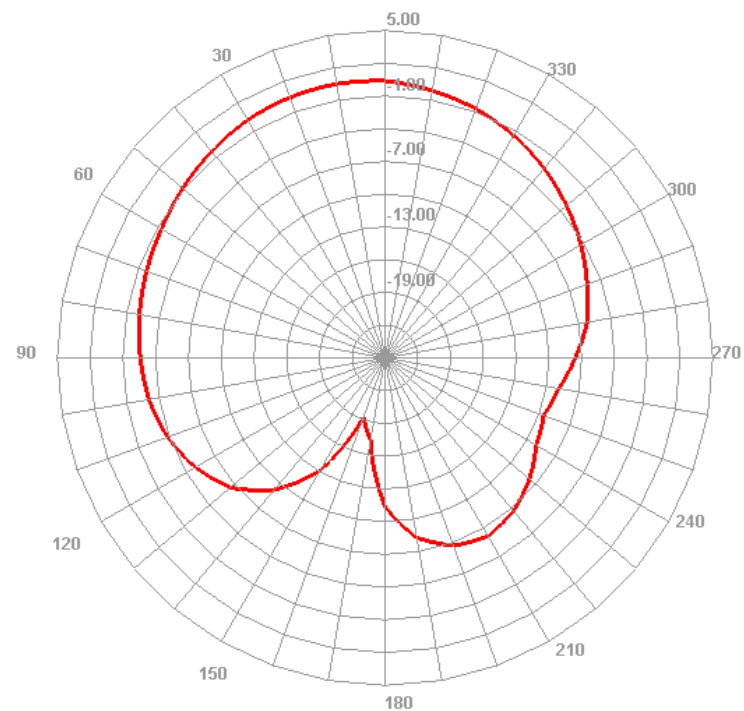


Efficient (1710–1990MHz)

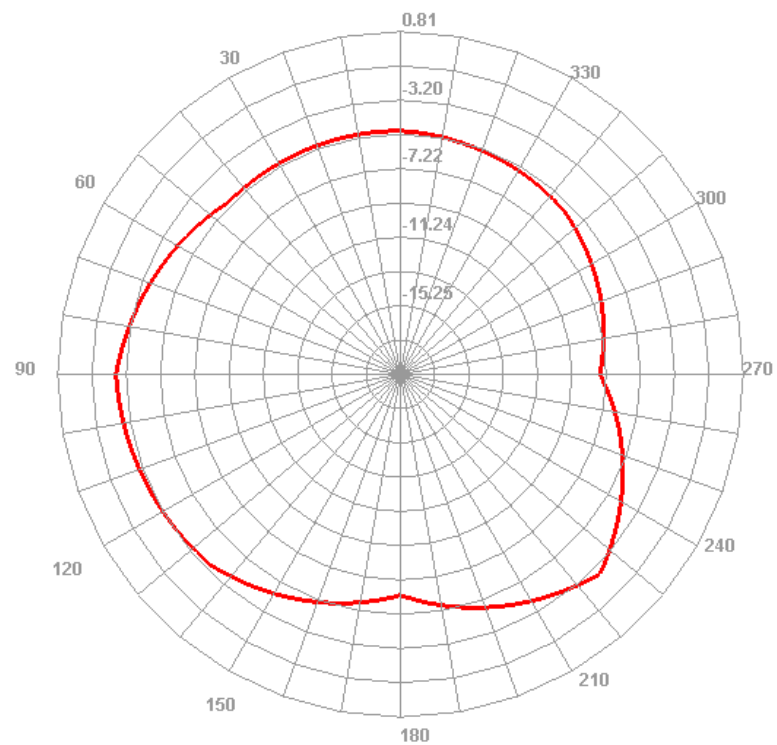
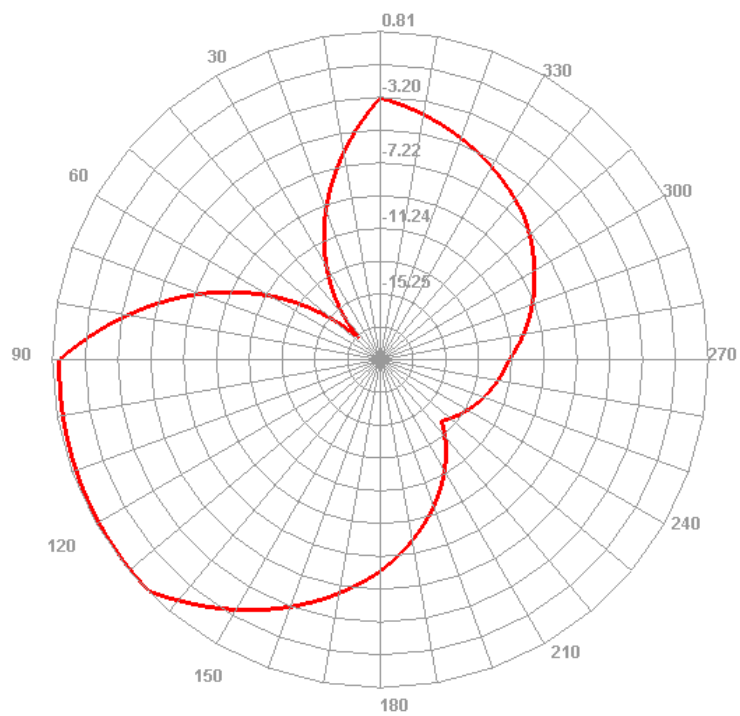
1920.000MHz



1920.000MHz H

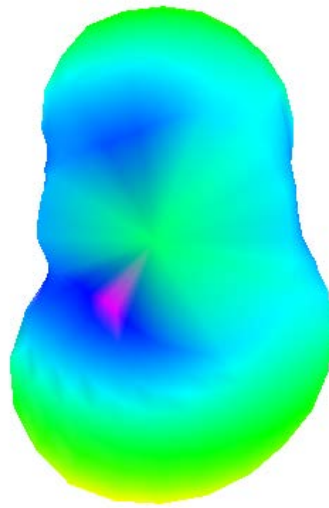


1920.000MHz E1

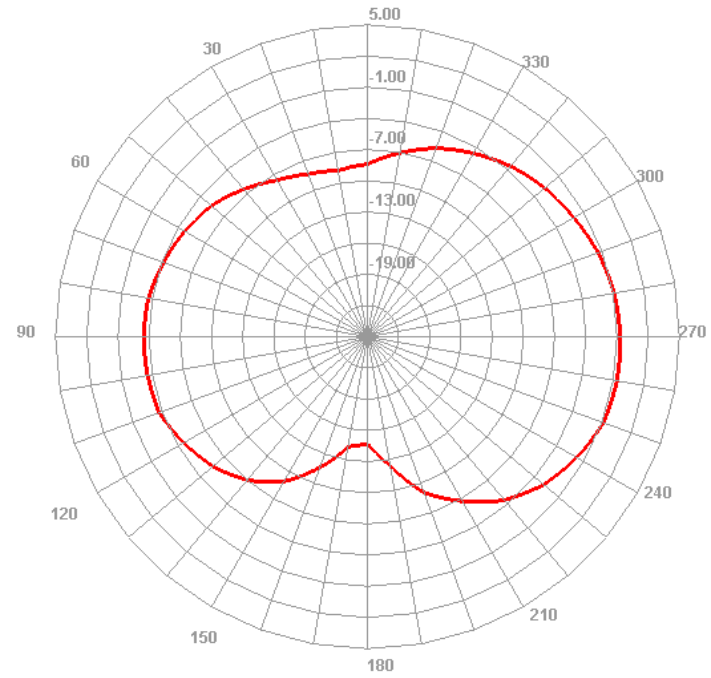


Efficient (1920-2170MHz)

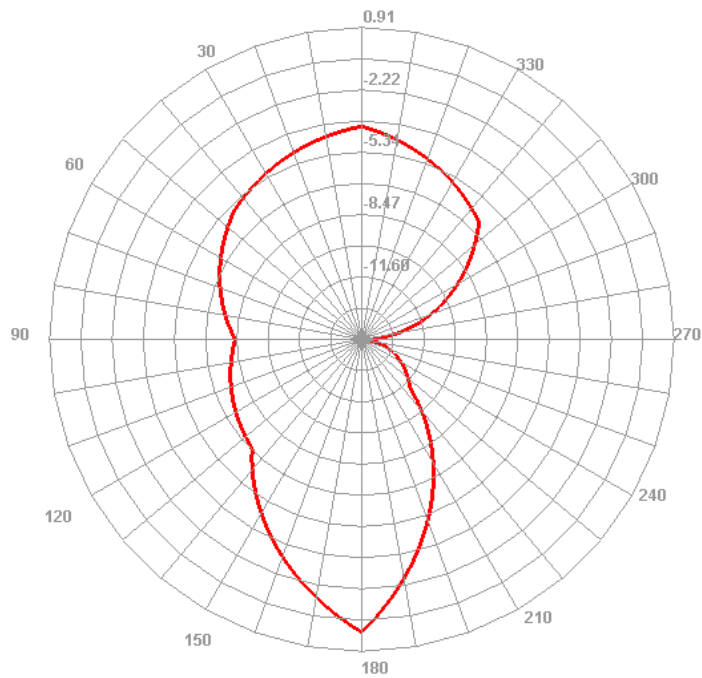
2010.000MHz



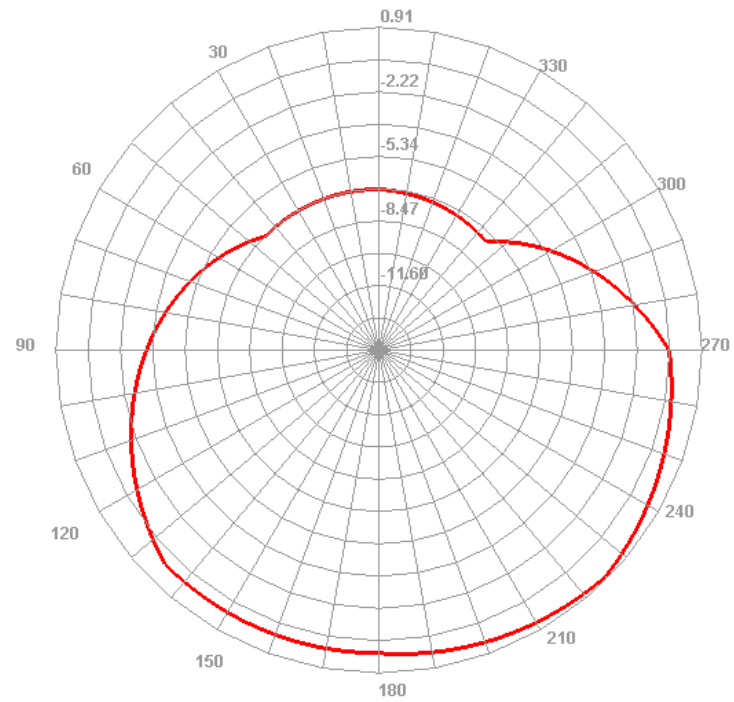
2010.000MHz H



2010.000MHz E1

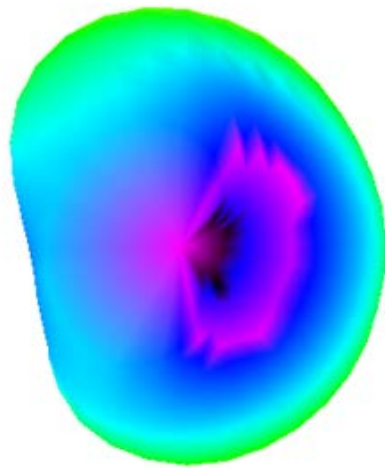


2010.000MHz E2

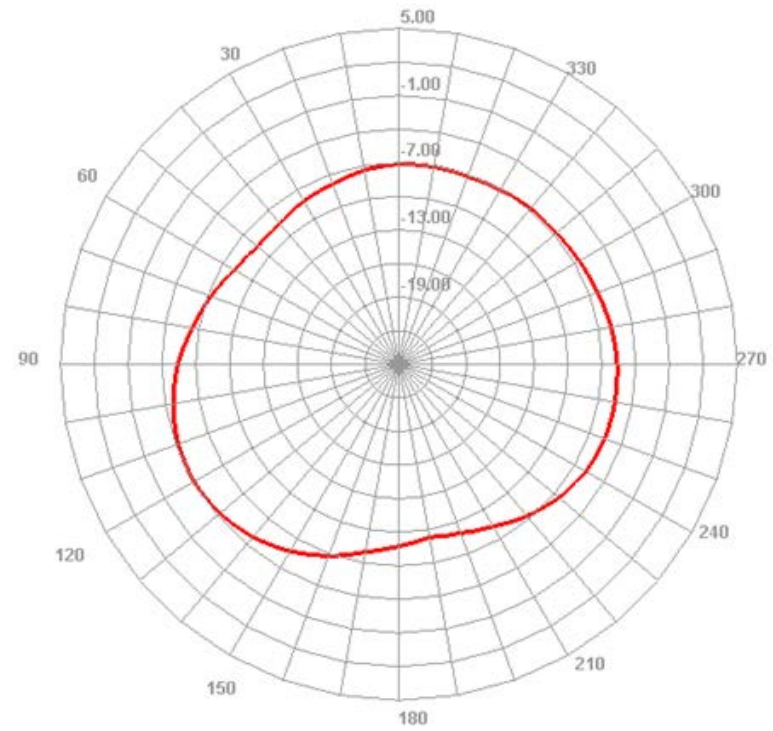


Efficient (2500–2690MHz)

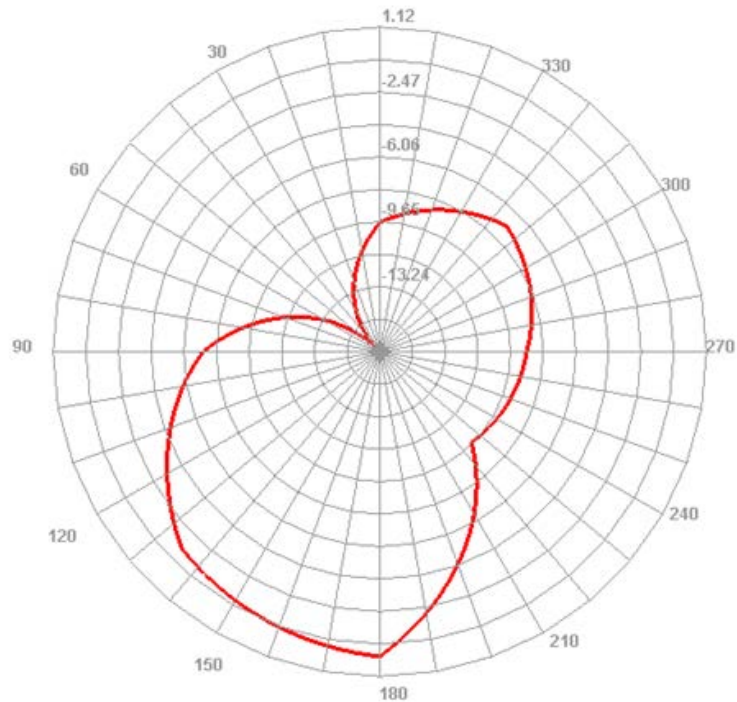
2660.000MHz



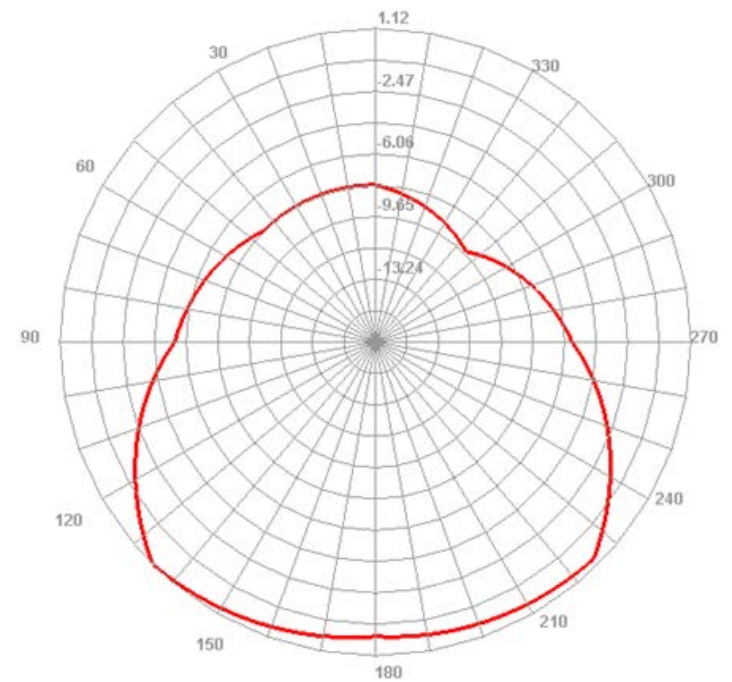
2660.000MHz H



2660.000MHz E1

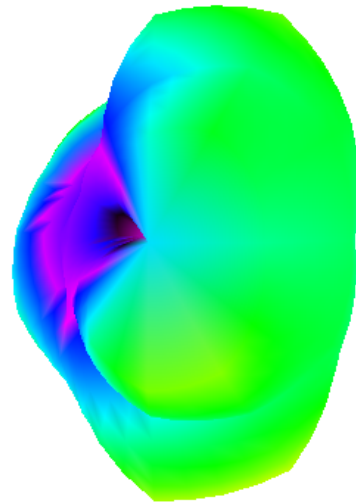


2660.000MHz E2

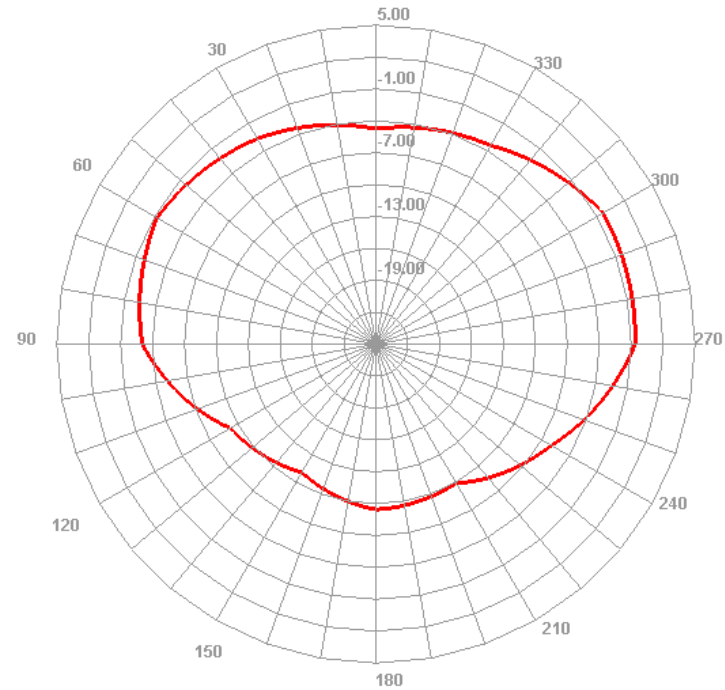


Efficient (2.4G-WIFI/BT 2400-2500MHz)

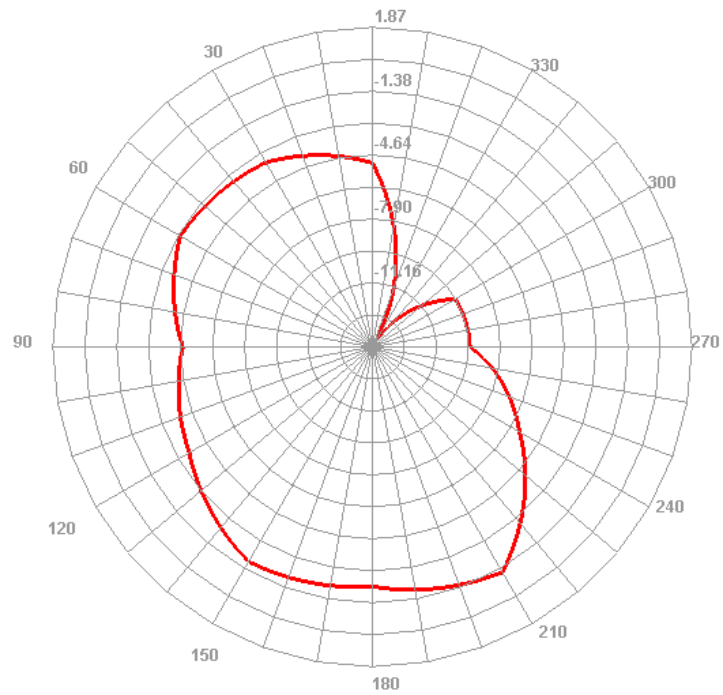
2450.000MHz



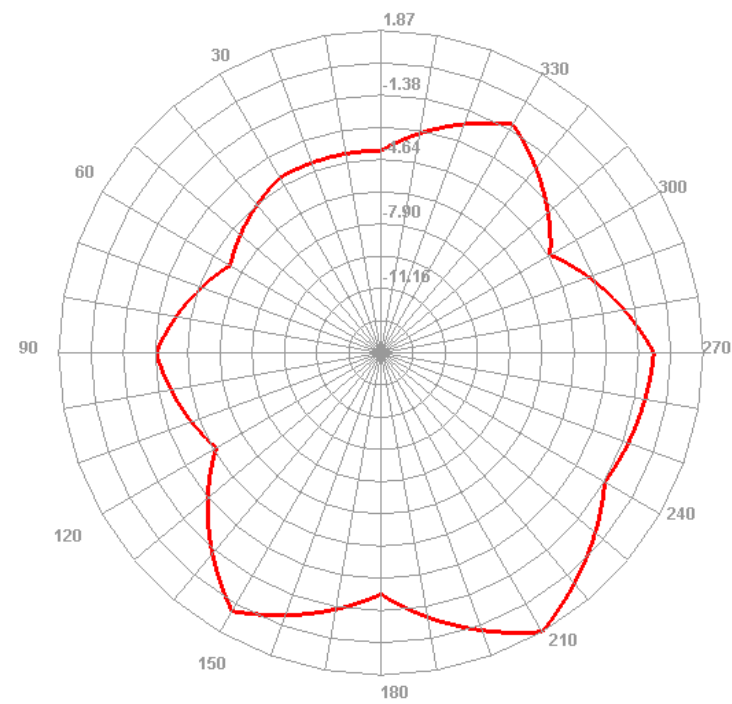
2450.000MHz H



2450.000MHz E1

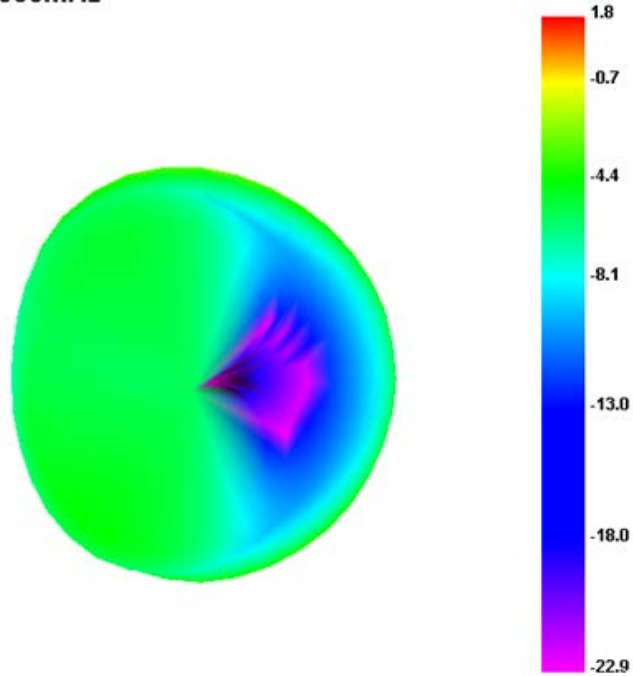


2450.000MHz E2

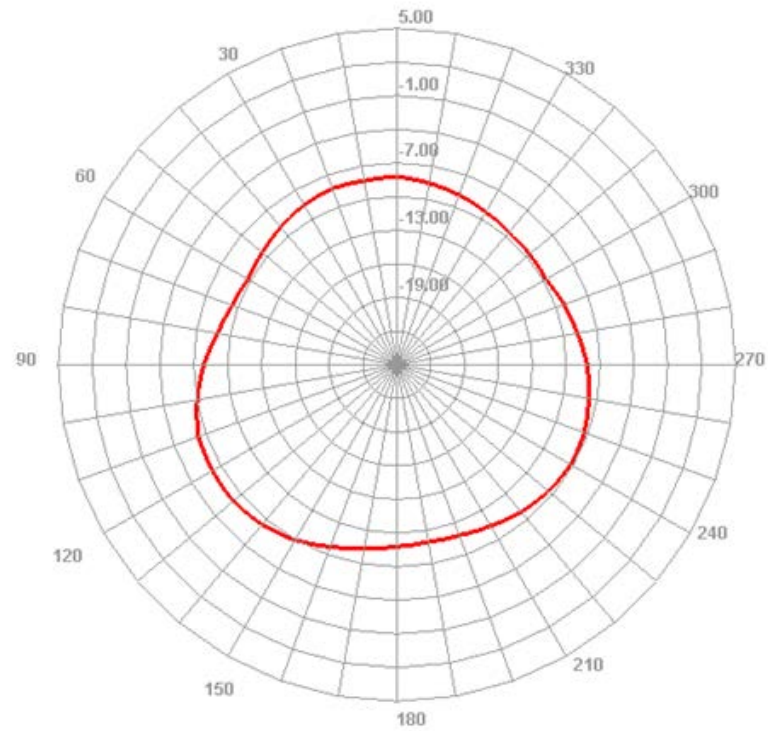


Efficient (5G-WIFI 5000-5250MHz)

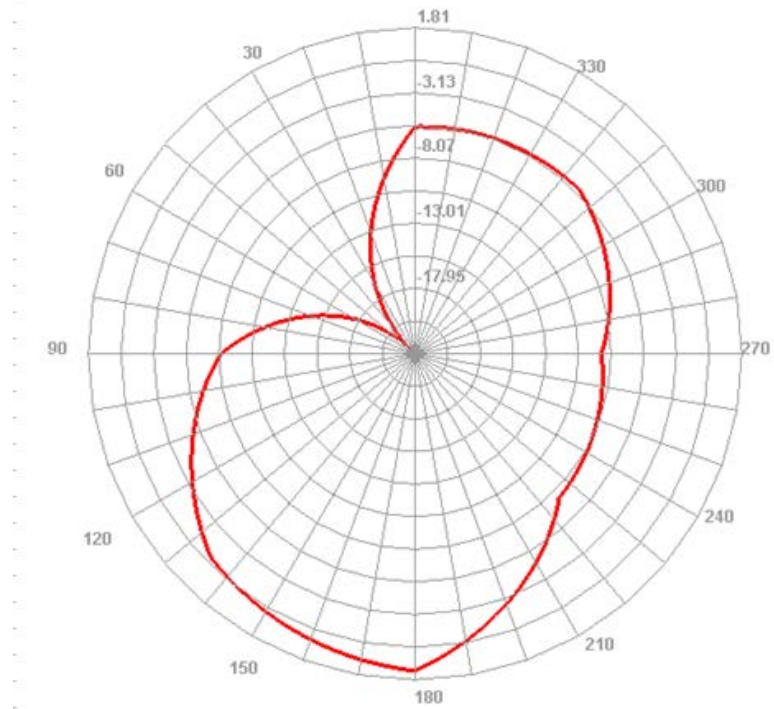
5150.000MHz



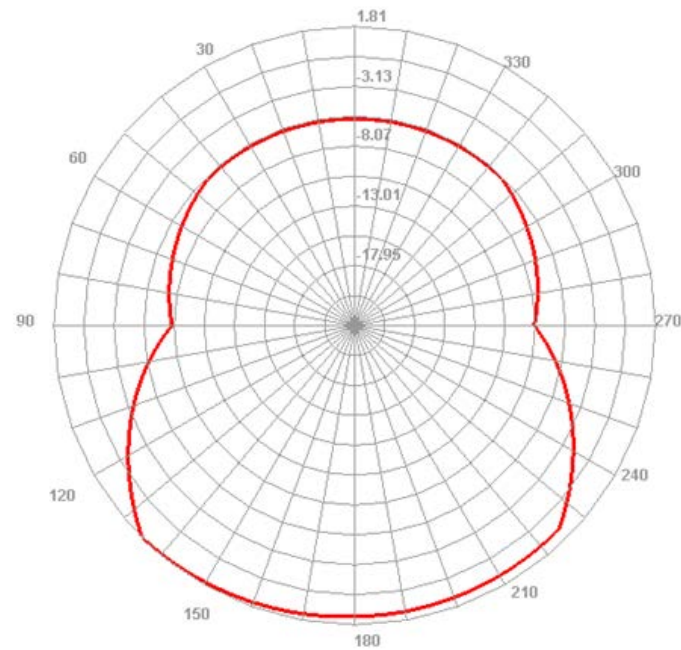
5150.000MHz H



5150.000MHz E1

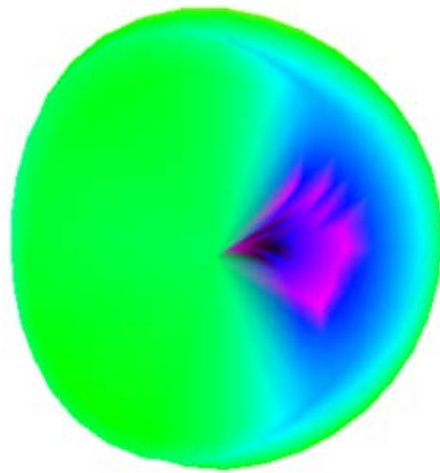


5150.000MHz E2

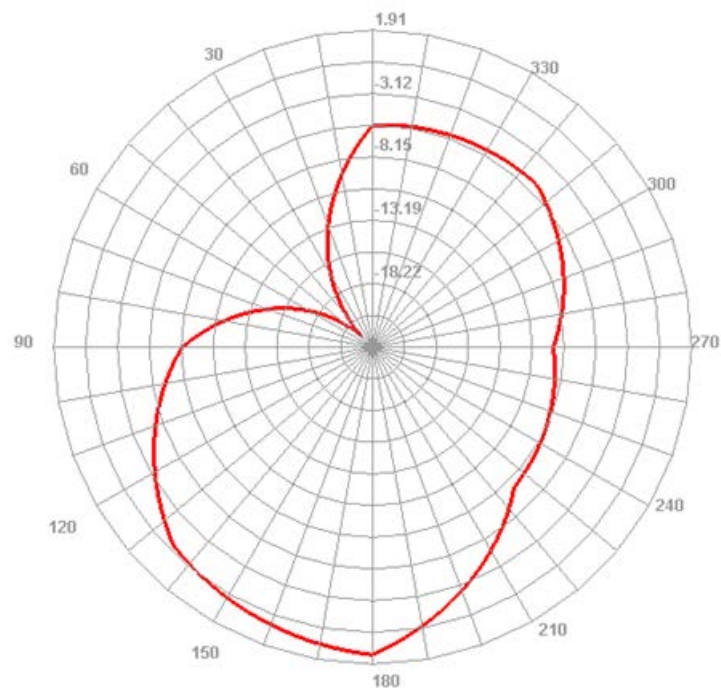


Efficient (5G-WIFI 5725-5850MHz)

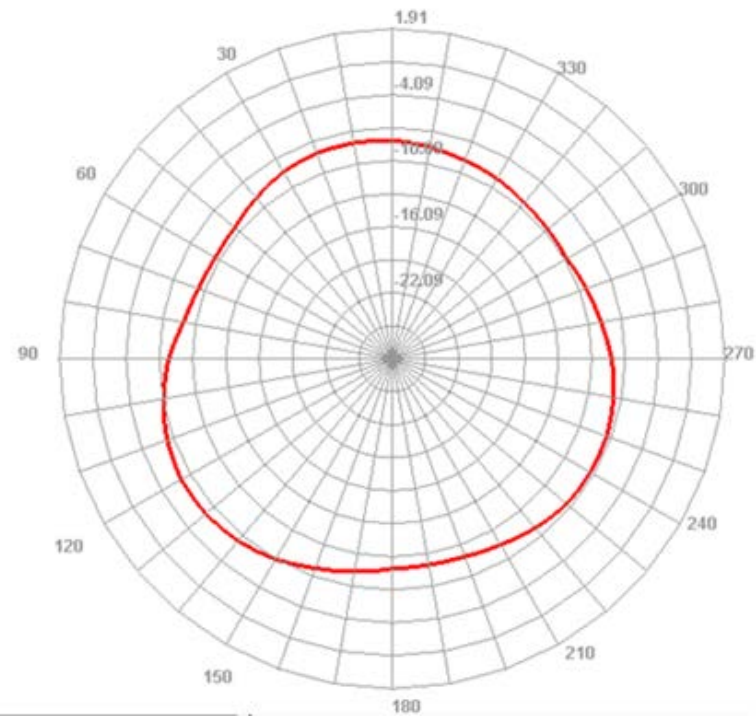
5740.000MHz



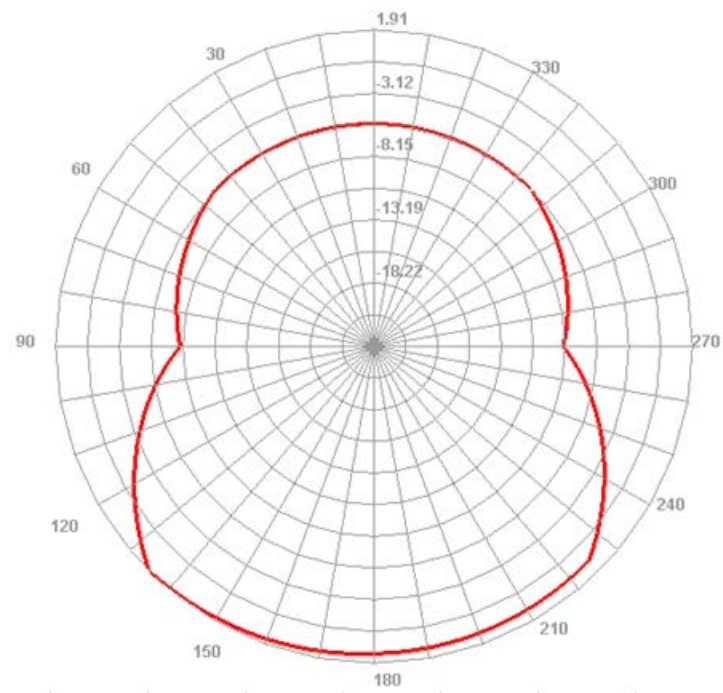
5740.000MHz E1



5740.000MHz H

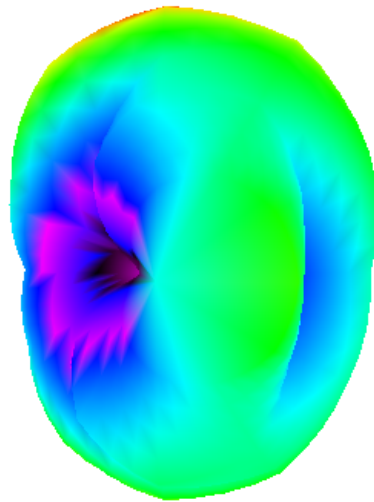


5740.000MHz E2

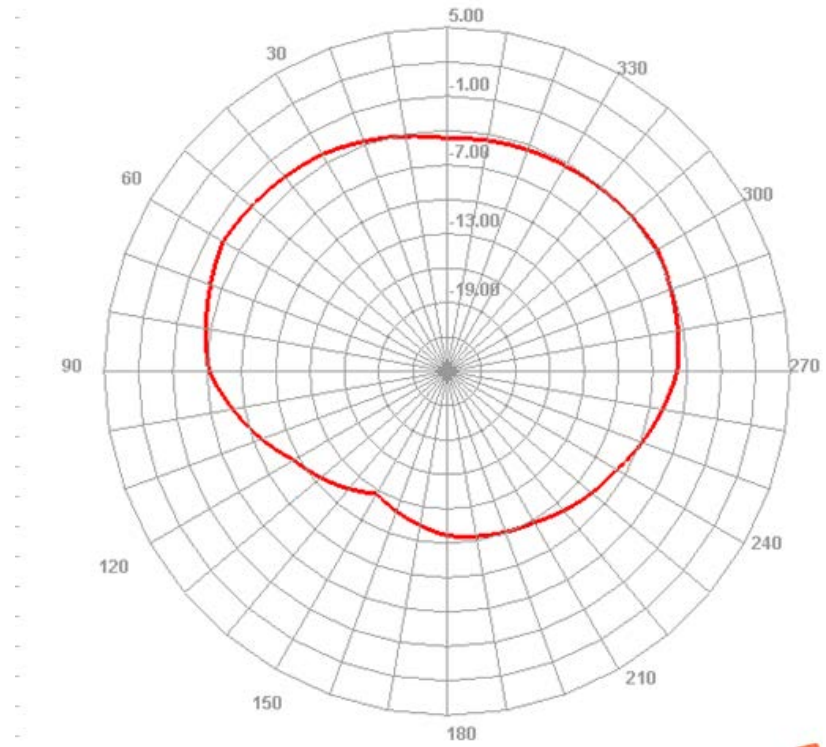


Efficient (GPS 1575.42MHz)

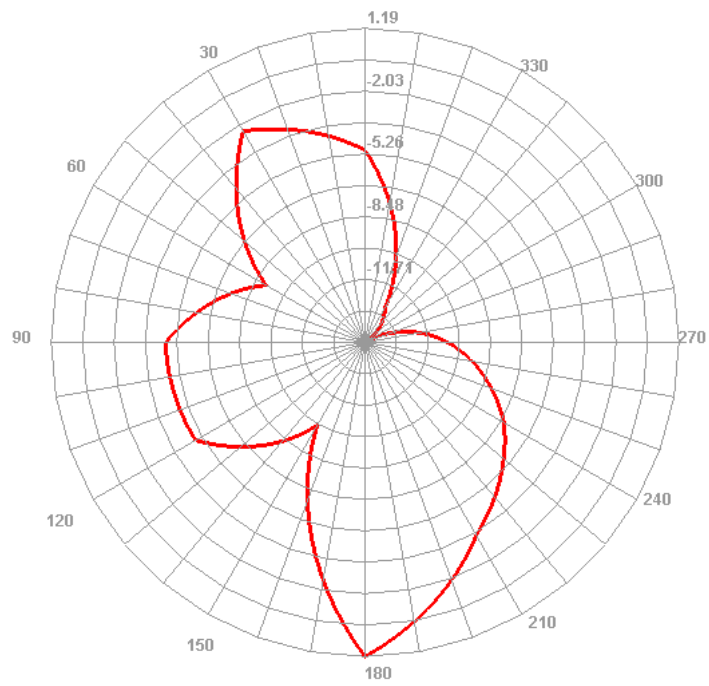
1575.491MHz



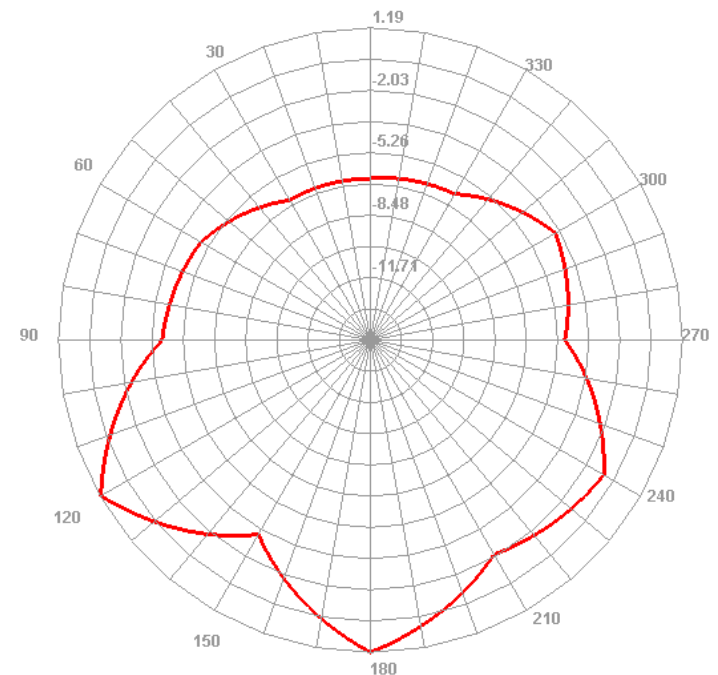
1575.491MHz H



1575.491MHz E1



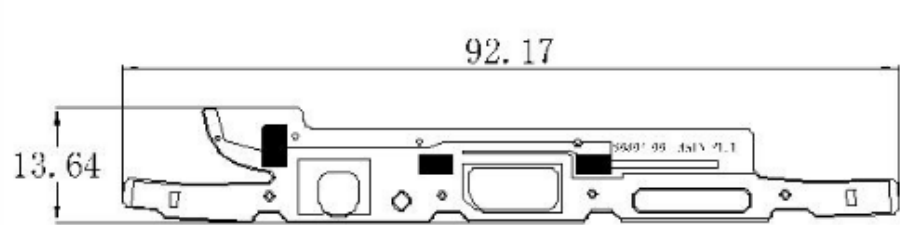
1575.491MHz E2



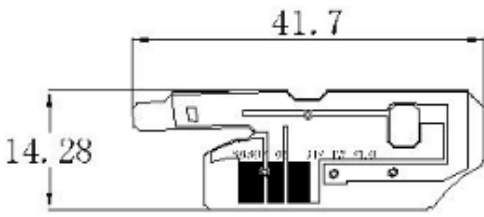
Antenna Dimensions

版本	修改内容	修改者	修改日期

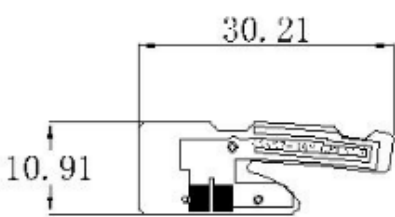
基 材	半对1/3	
	半对半	
	一对半	✓
	一对一	



主天线



分集天线



GPS/WIFI天线

- 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;

- V0.1
- V0.2
- V0.3
- V0.4
- V0.5
- V0.6
- V0.7
- V0.8
- V0.9
- V0.10

华信微通信技术有限公司				
☞⊕	单位: mm	名称: FPC	日期: 2024-05-22	
一般公差:		料号: S6807-06F-GSM	设计: 朱顺身	
.X	±0.5	材质: FPC1349471	RF:	
.XX	±0.25	表面处理: 清洗	确认:	
.XXX	±0.05	颜色:	比例: 1:1	版本: A
ANGULAR	±0.5°			

