



ShenZhen Huaxinwei communication technology
Co.,Ltd.

Antenna test report

Customer Name: Tian Rui Xiang

Project Name: S6520-63D

Designer: Liu Chun Yun

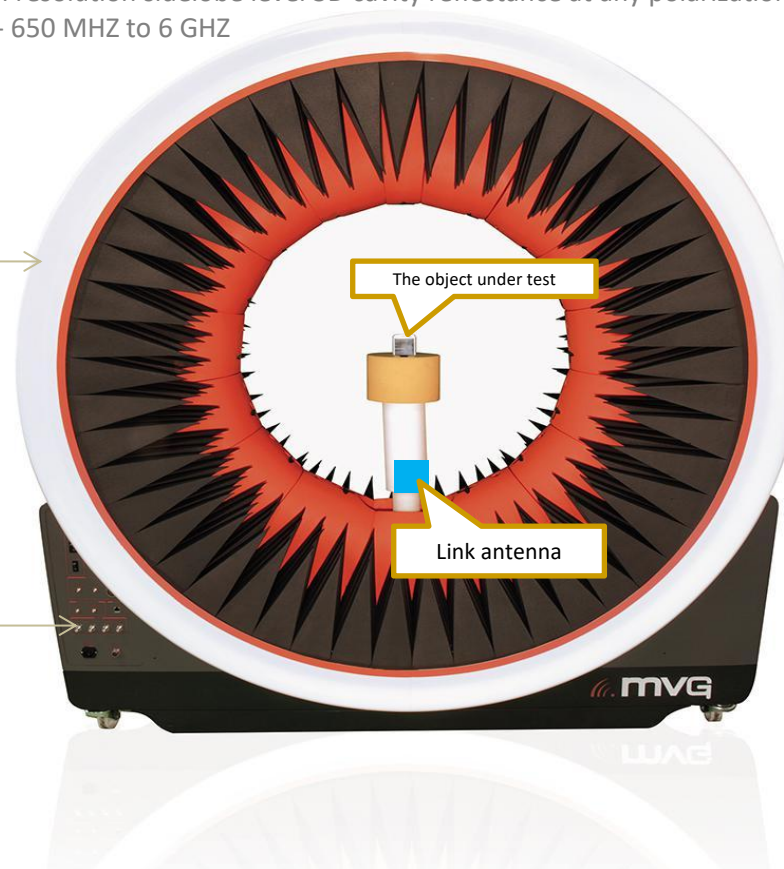
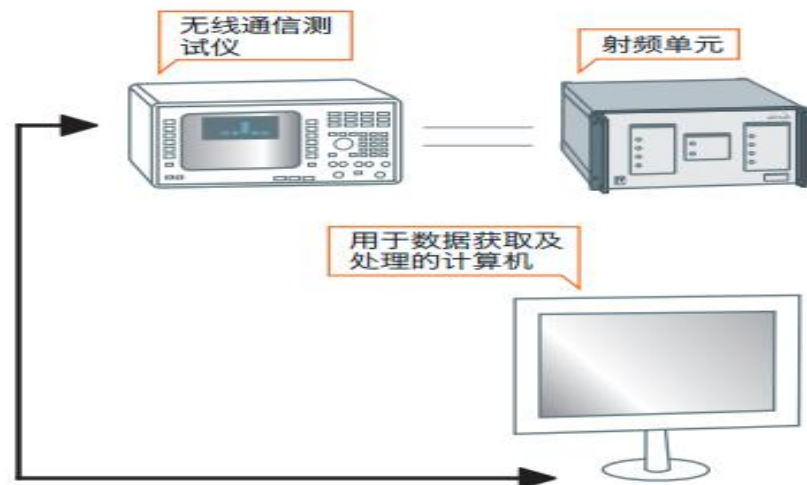
Date: 2024/07/26



The customer name		• Tian Rui Xiang	Project Name	S6520-63D
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		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 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

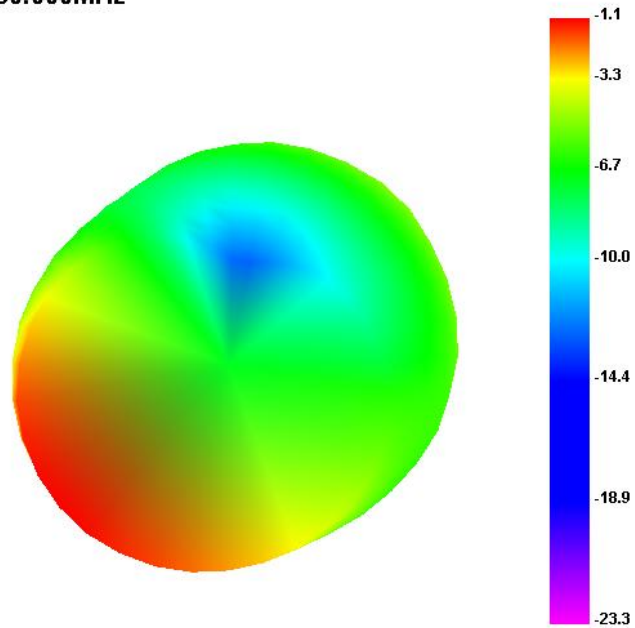


Efficient (2G+3G+4G+2. 4G-WiFi /BT)

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
3G:			
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
4G:			
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-B19	830~889Mhz	21. 80	-0. 71
LTE-B20	791~862Mhz	20. 84	-0. 71
LTE-B25	1850~1995Mhz	30. 81	0. 81
LTE-B26	814~893Mhz	20. 84	-0. 71
LTE-B28	708~798Mhz	20. 03	-1. 18
LTE-B66	1711~2175Mhz	29. 38	0. 67
2. 4G-WIFI	2400~2500Mhz	42. 52	1. 37
BT	2400~2500Mhz	42. 51	1. 37
GPS	1575Mhz	38. 73	0. 43

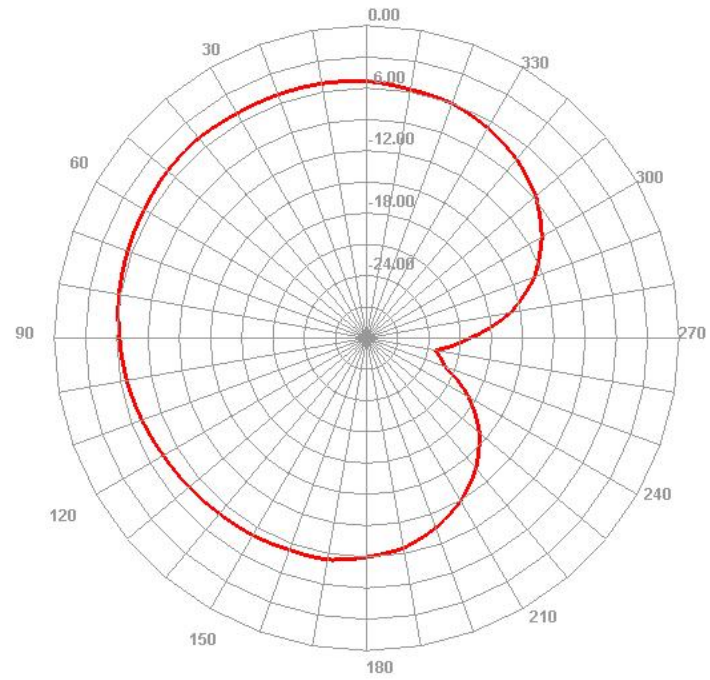
Efficient (699~798MHz)

730.000MHz

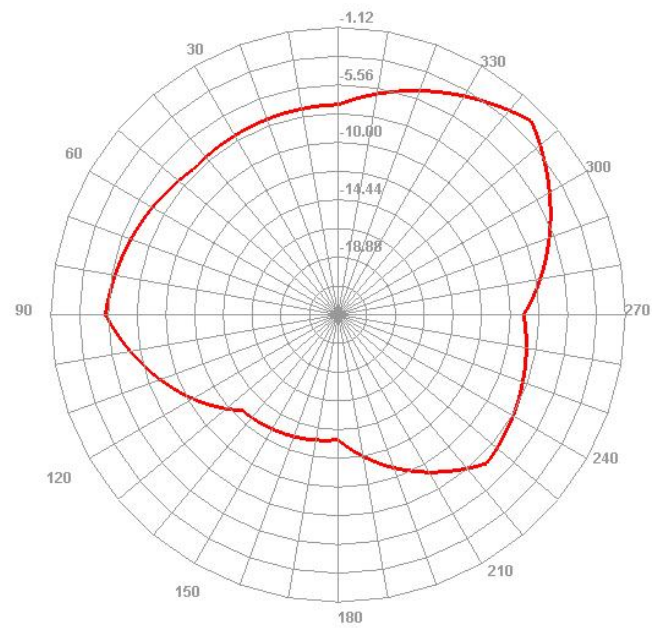


Lower antenna

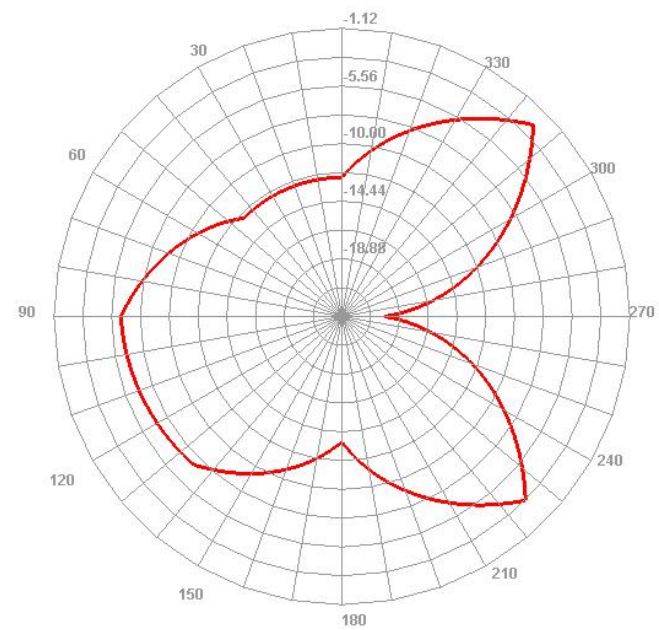
730.000MHz H



730.000MHz E1

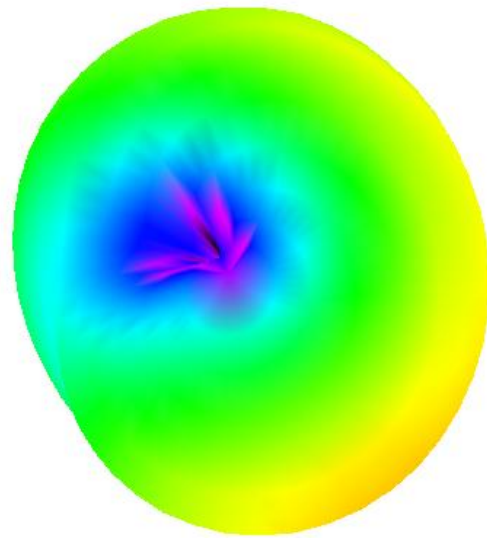


730.000MHz E2

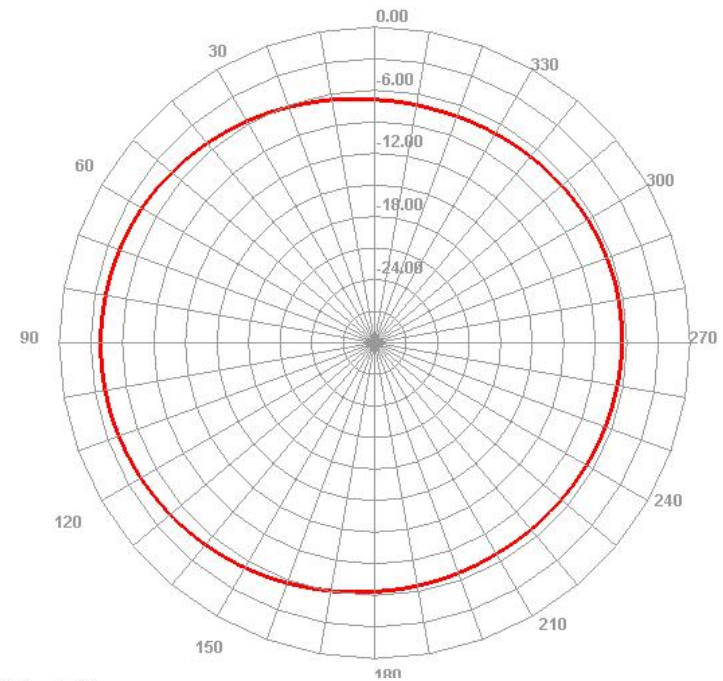


Efficient (791-894MHz)

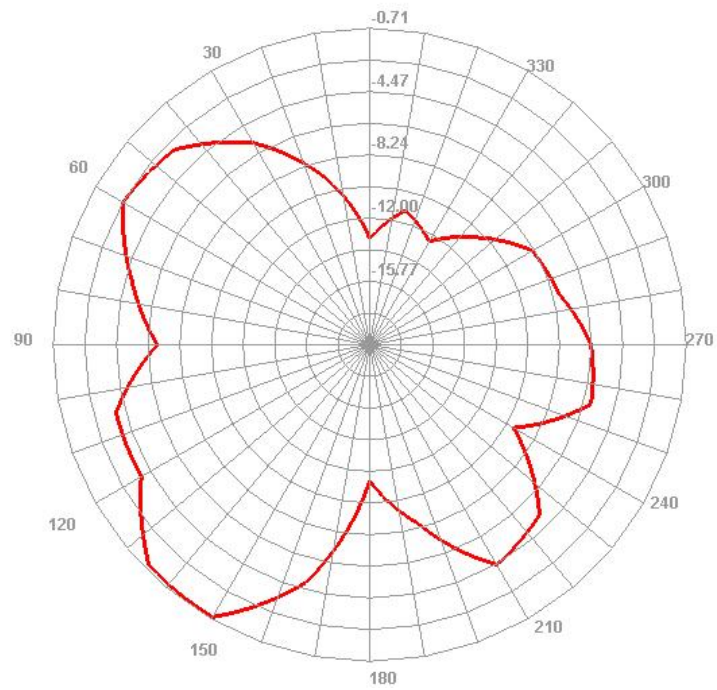
830.000MHz



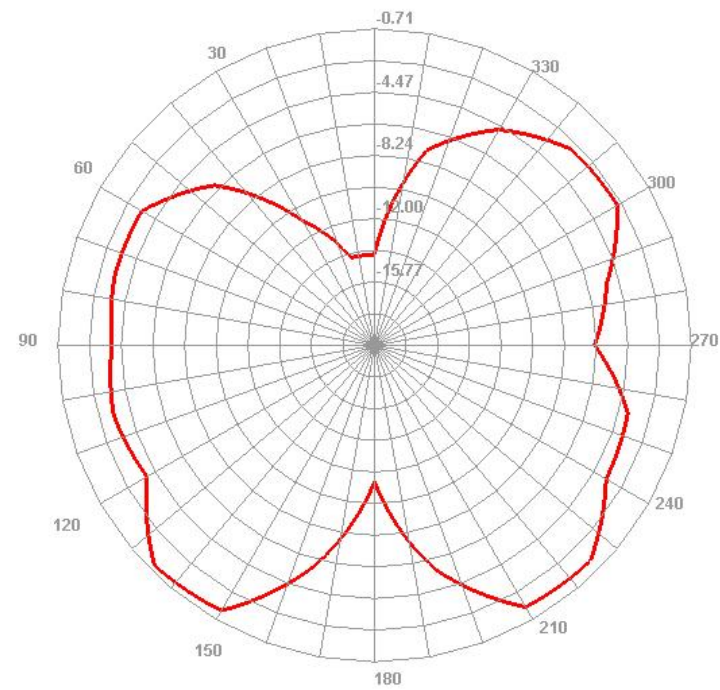
830.000MHz H



830.000MHz E1

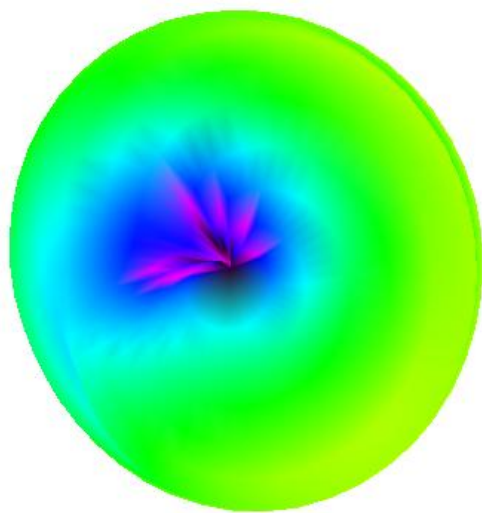


830.000MHz E2

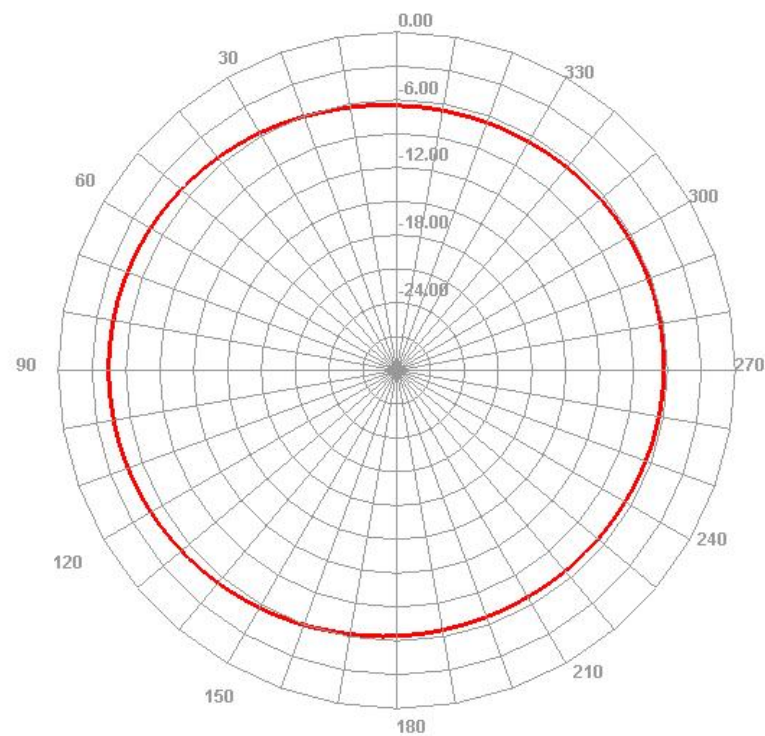


Efficient (880-960MHz)

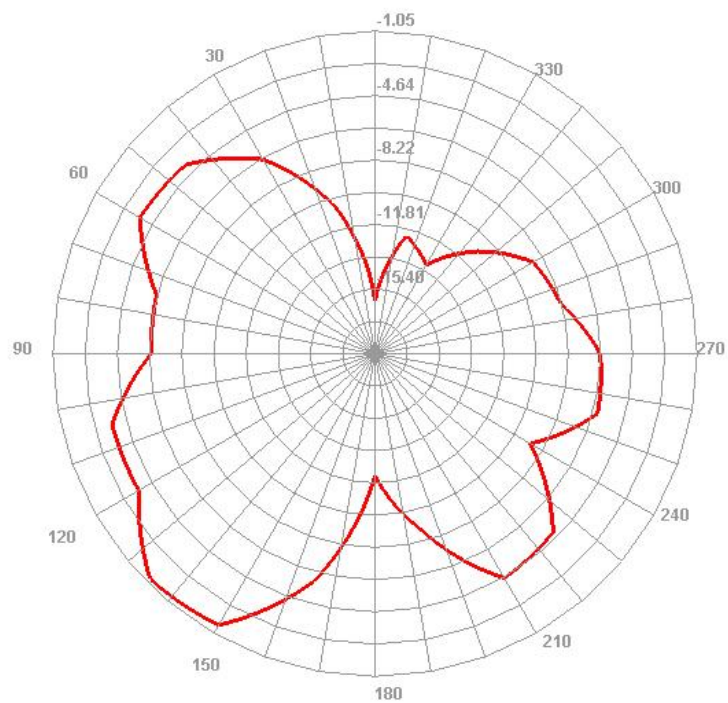
900.000MHz



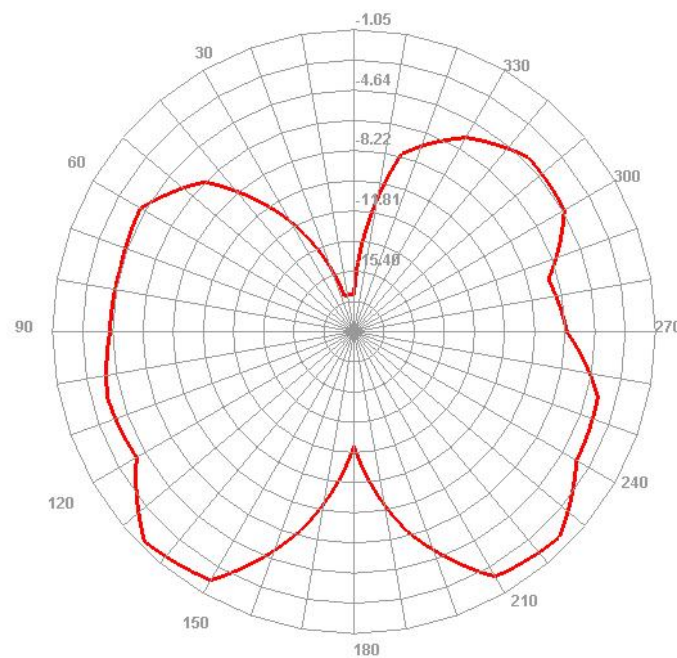
900.000MHz H



900.000MHz E1

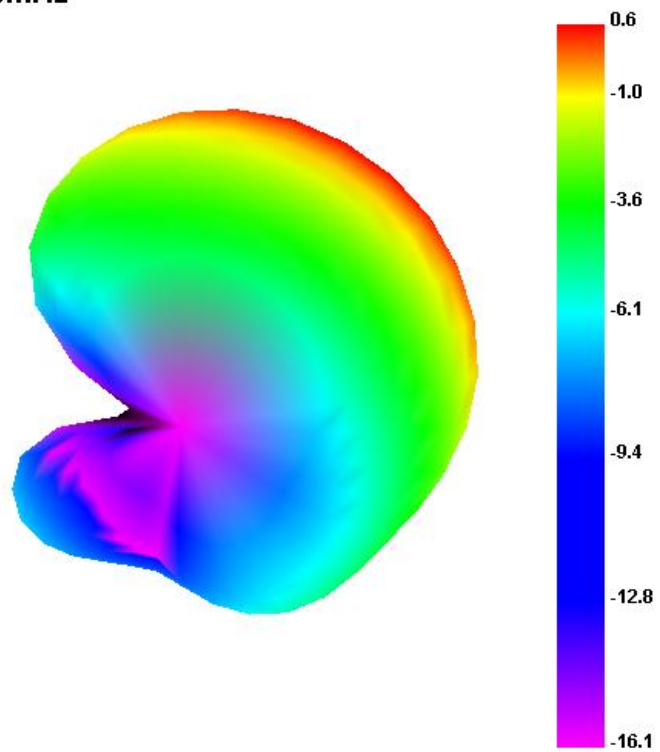


900.000MHz E2

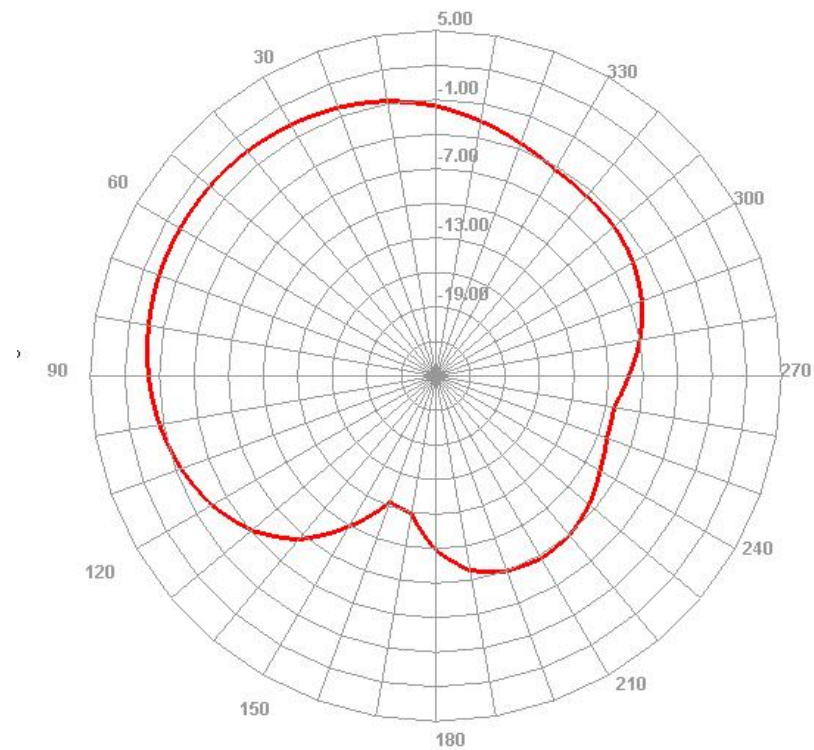


Efficient (1710–1880MHz)

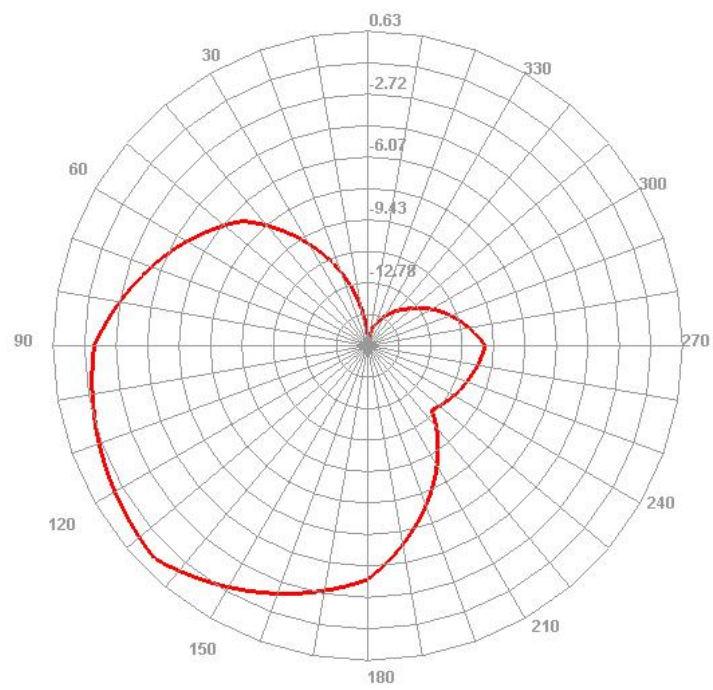
1820.000MHz



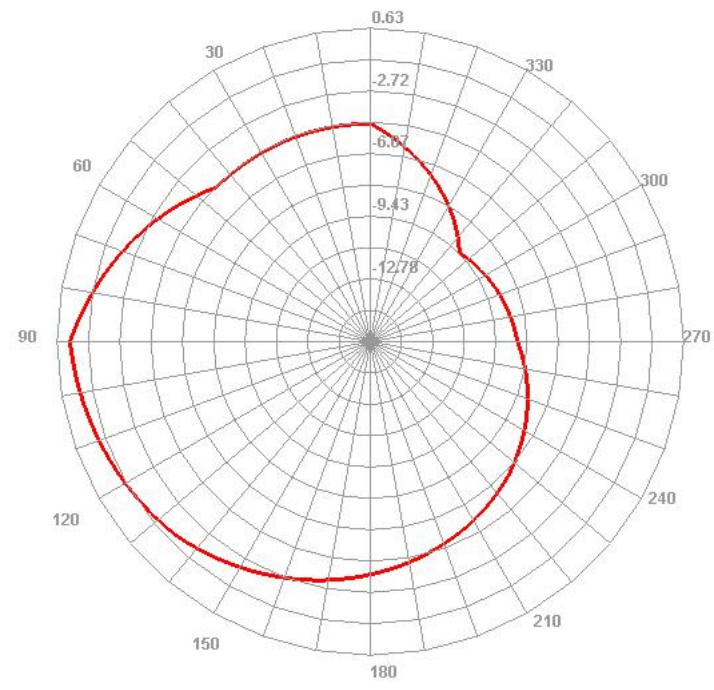
1820.000MHz H



1820.000MHz E1

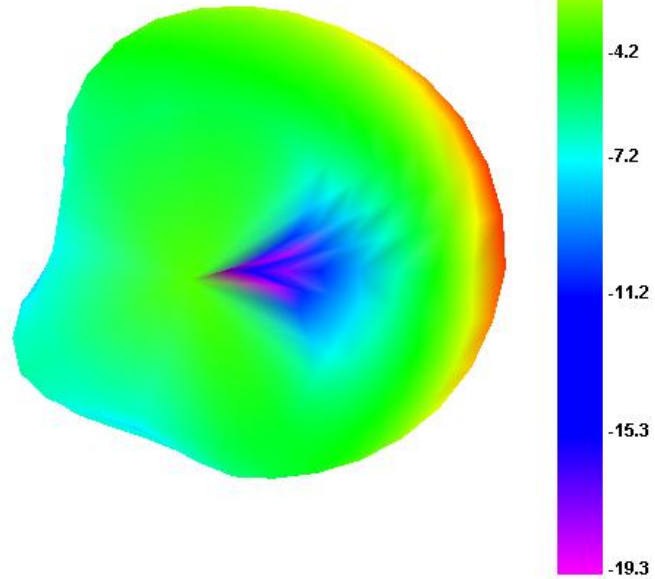


1820.000MHz E2

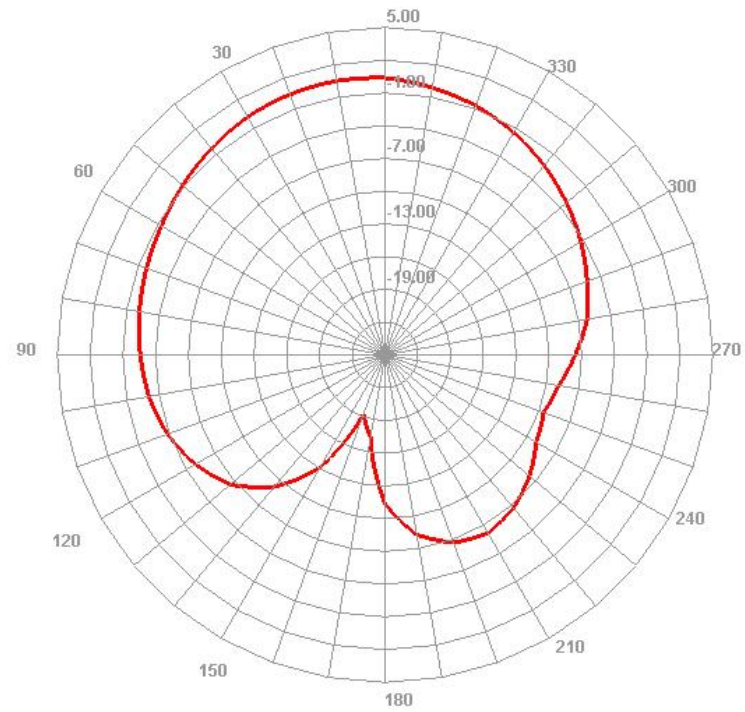


Efficient (1710–1990MHz)

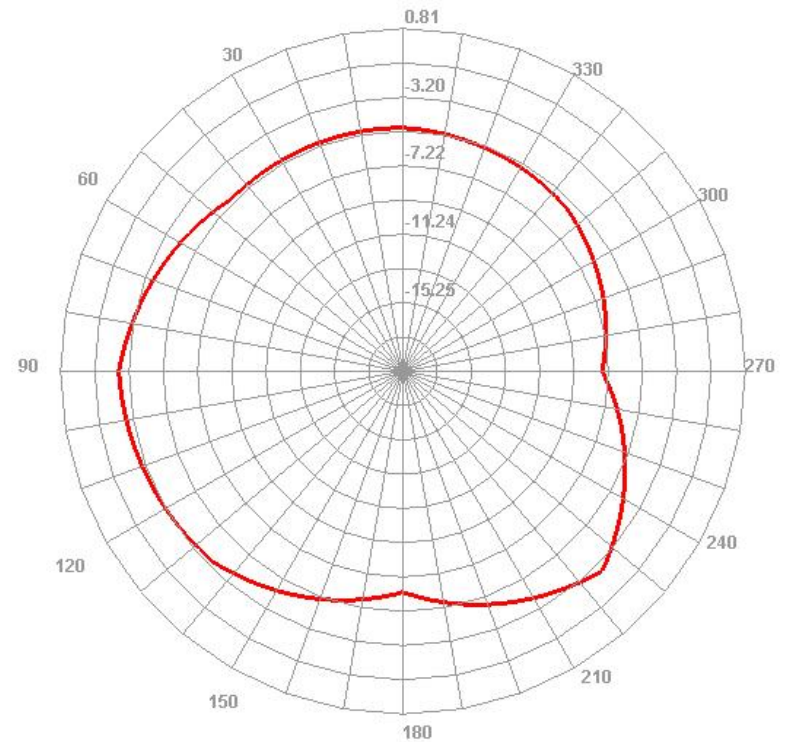
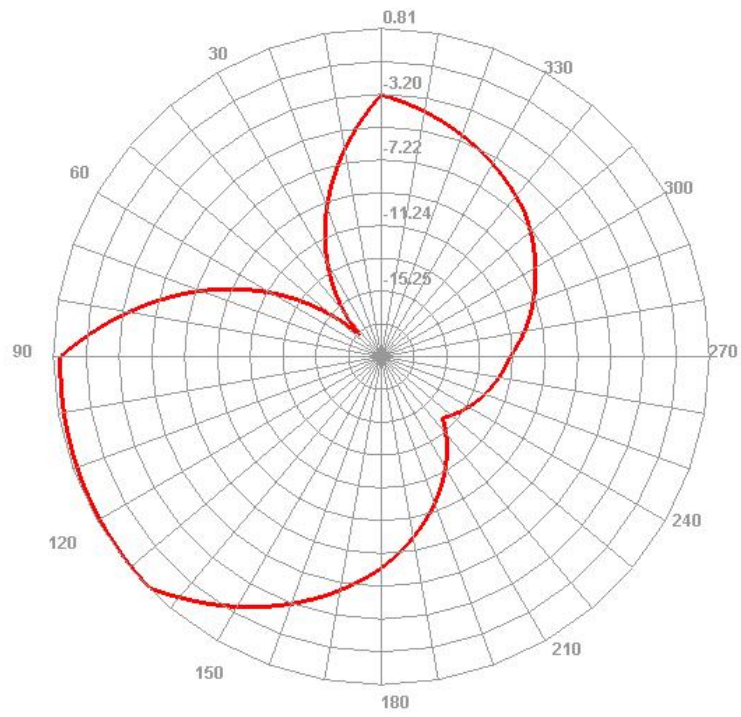
1920.000MHz



1920.000MHz H

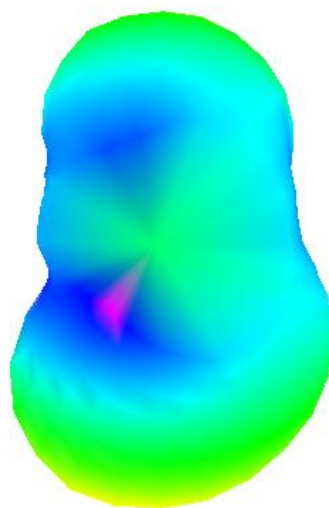


1920.000MHz E1

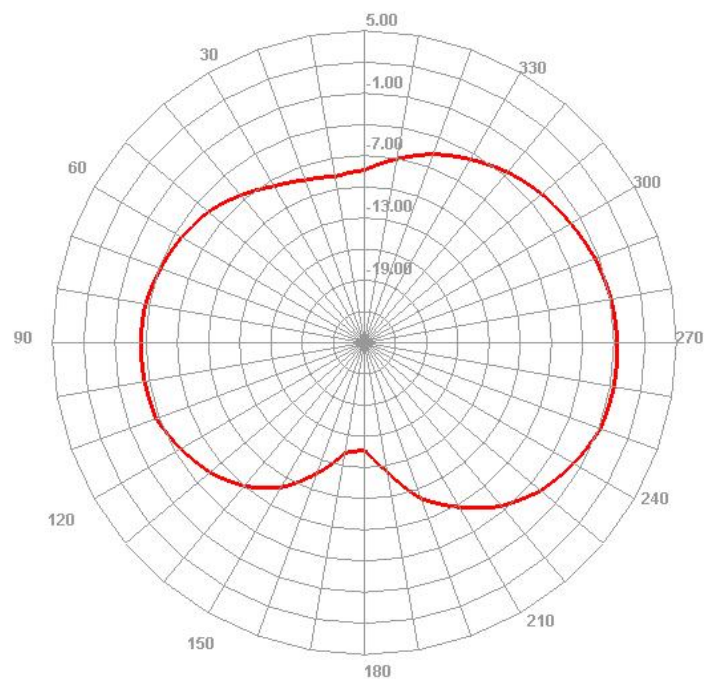


Efficient (1920-2170MHz)

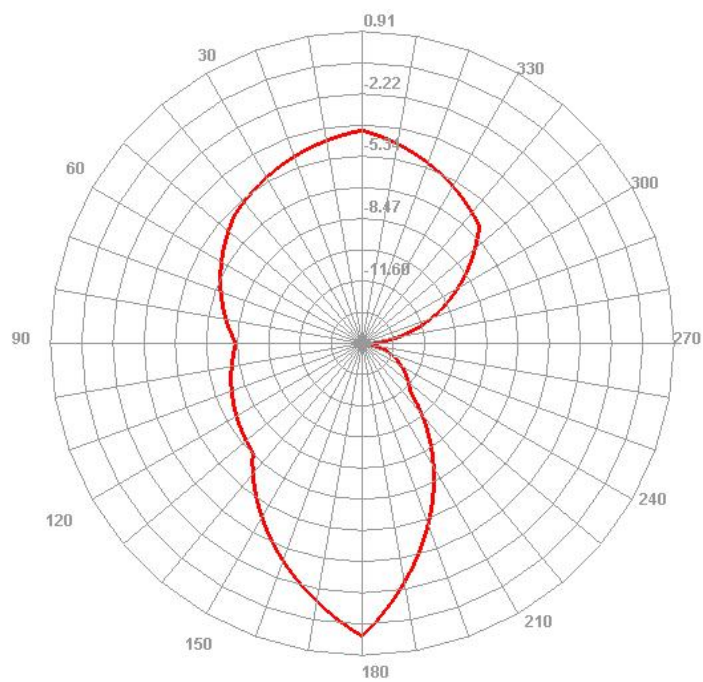
2010.000MHz



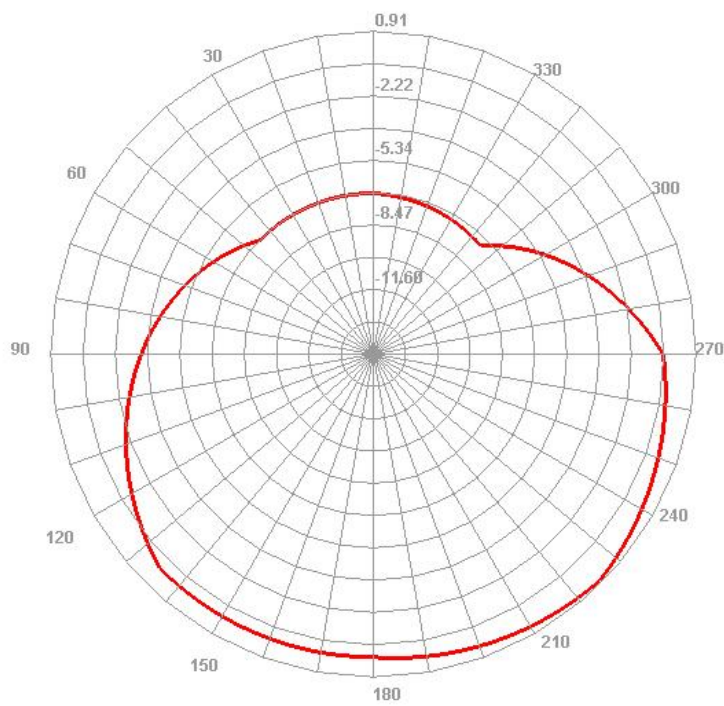
2010.000MHz H



2010.000MHz E1

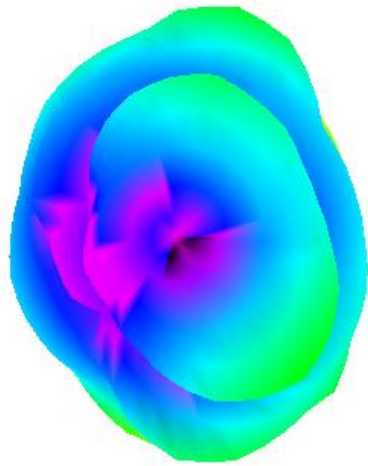


2010.000MHz E2

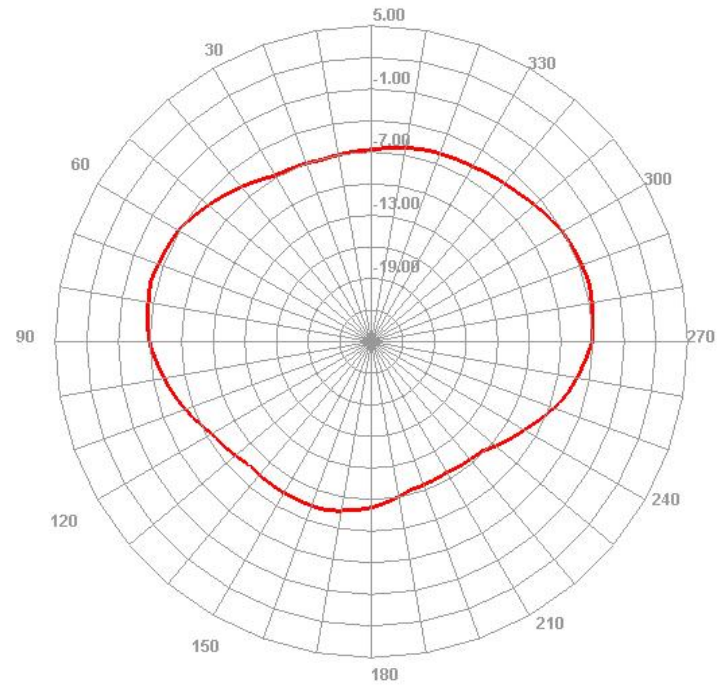


Efficient (2300–2400MHz)

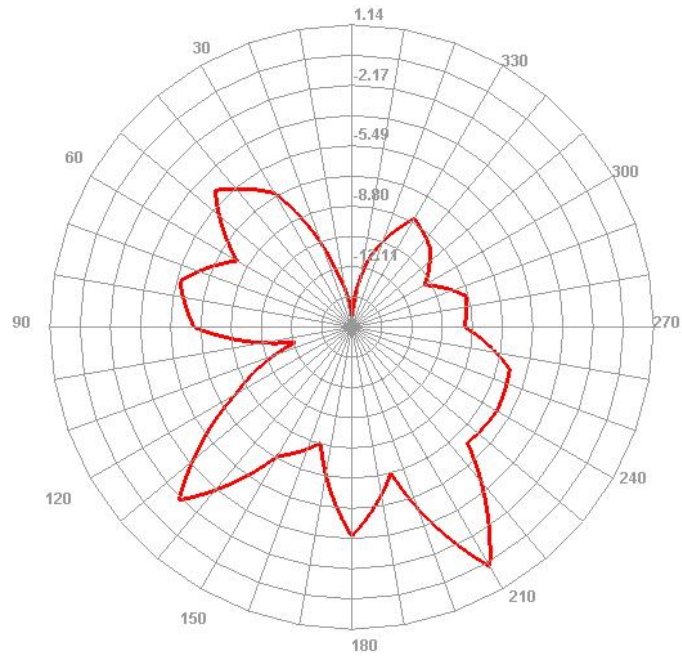
2370.000MHz



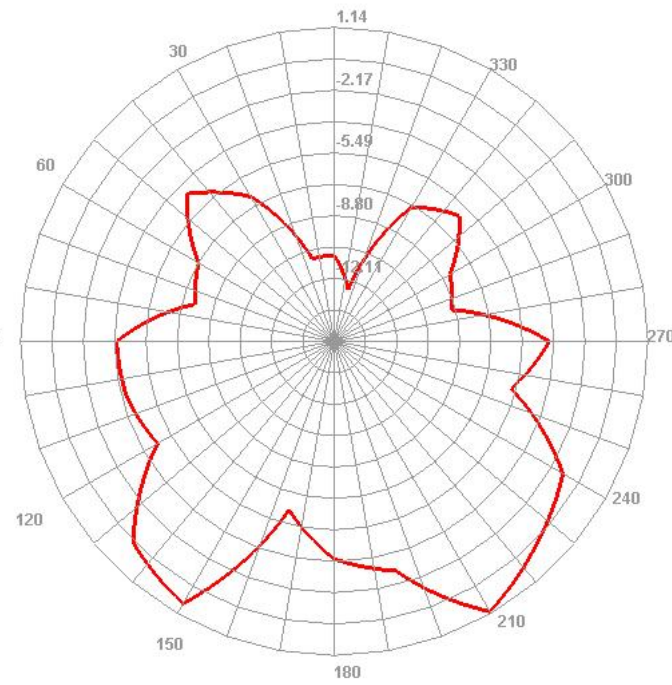
2370.000MHz H



2370.000MHz E1

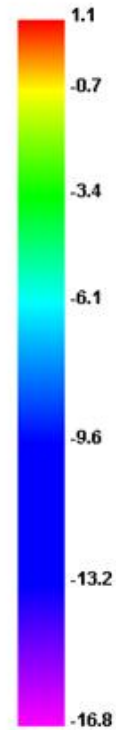
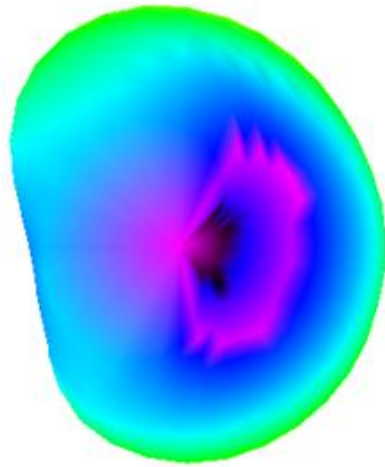


2370.000MHz E2

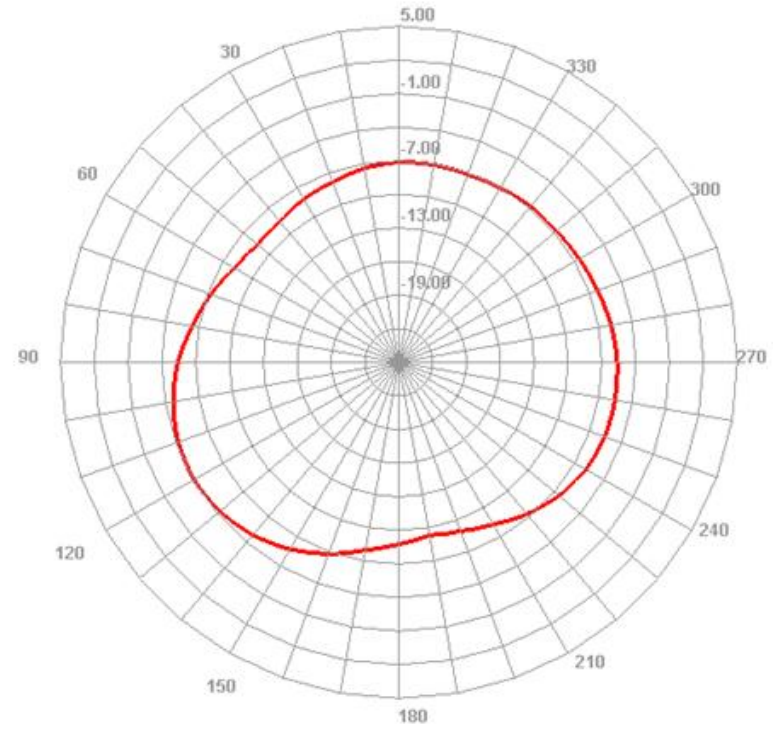


Efficient (2500–2690MHz)

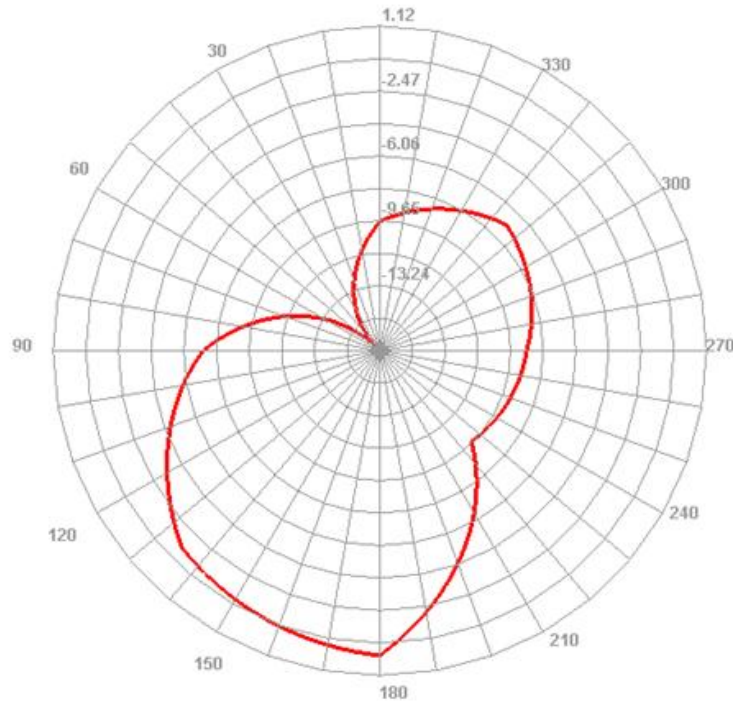
2660.000MHz



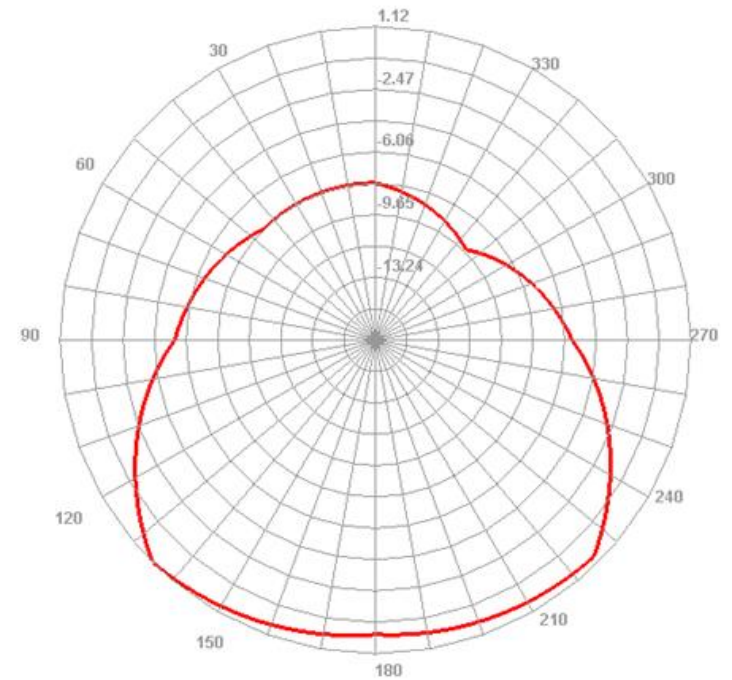
2660.000MHz H



2660.000MHz E1

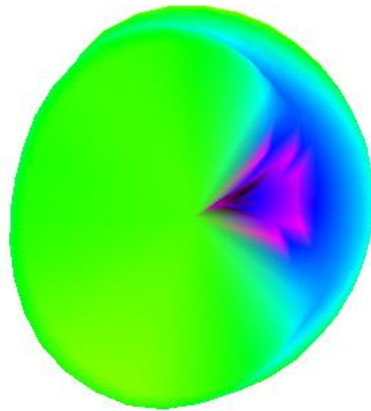


2660.000MHz E2

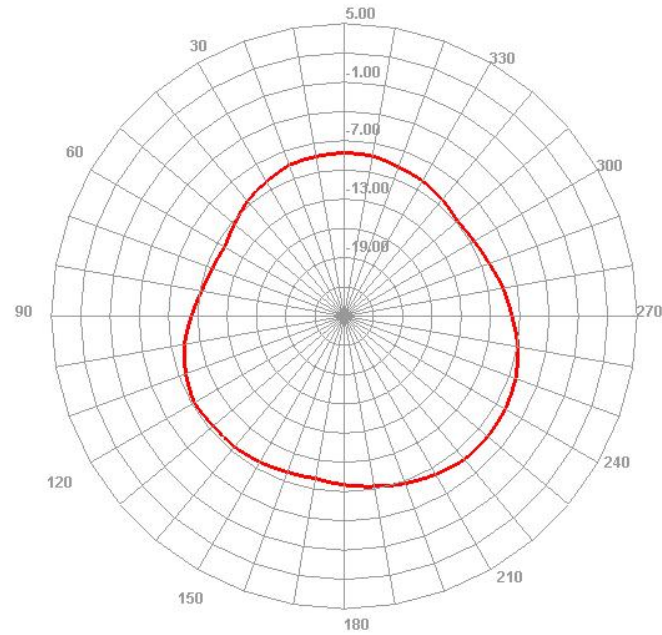


Efficient (2. 4G-WIFI/BT 2400-2500MHz)

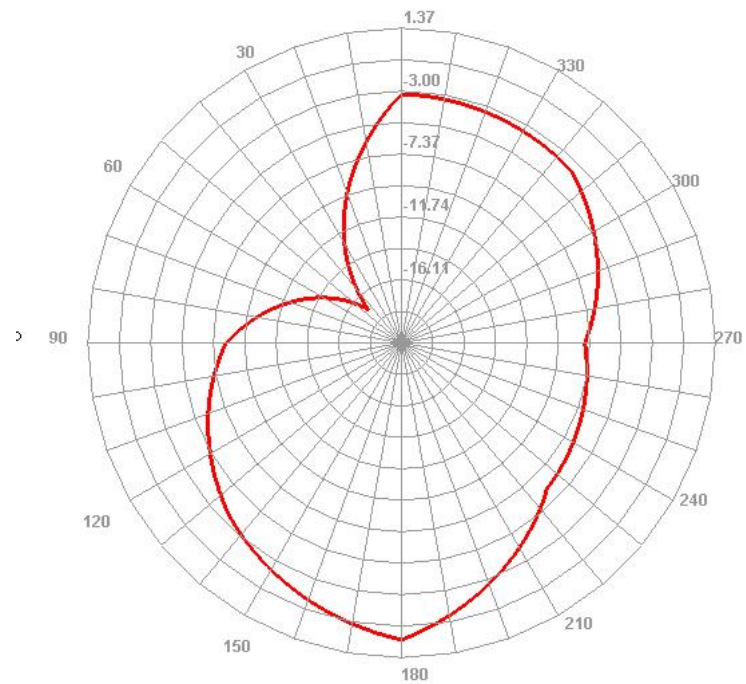
2450.000MHz



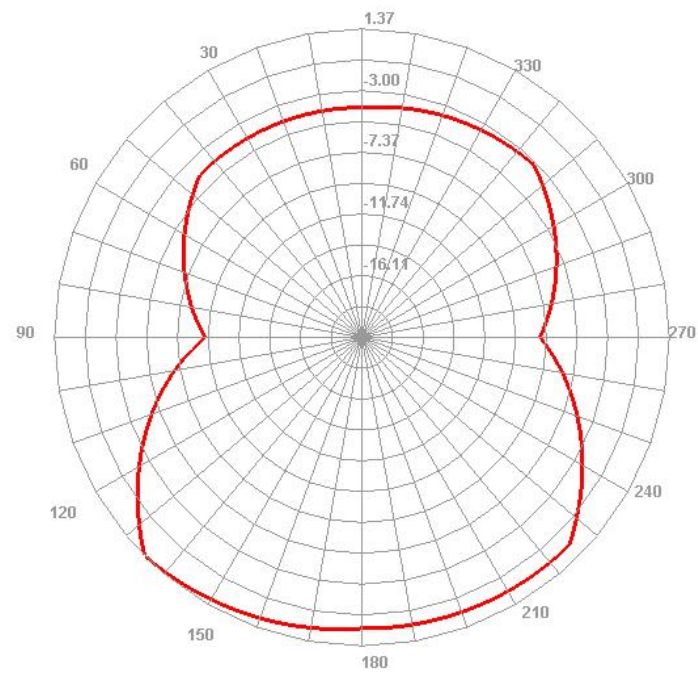
2450.000MHz H



2450.000MHz E1

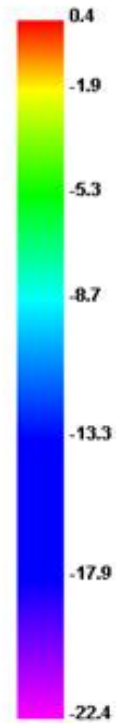
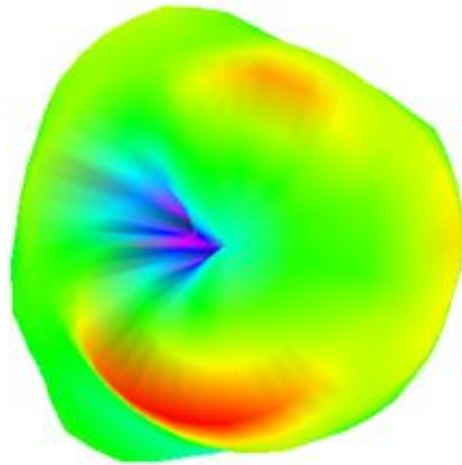


2450.000MHz E2

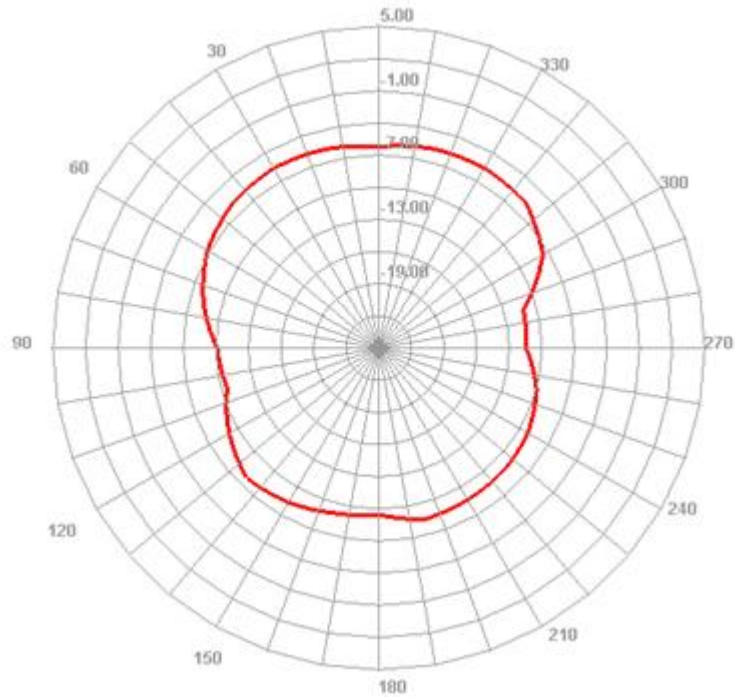


Efficient (GPS 1575.42MHz)

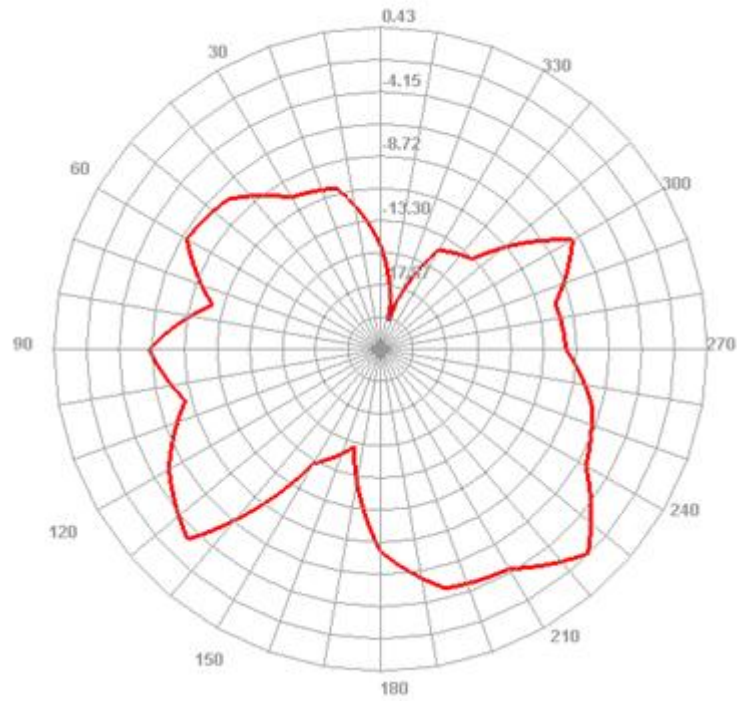
1575.491MHz



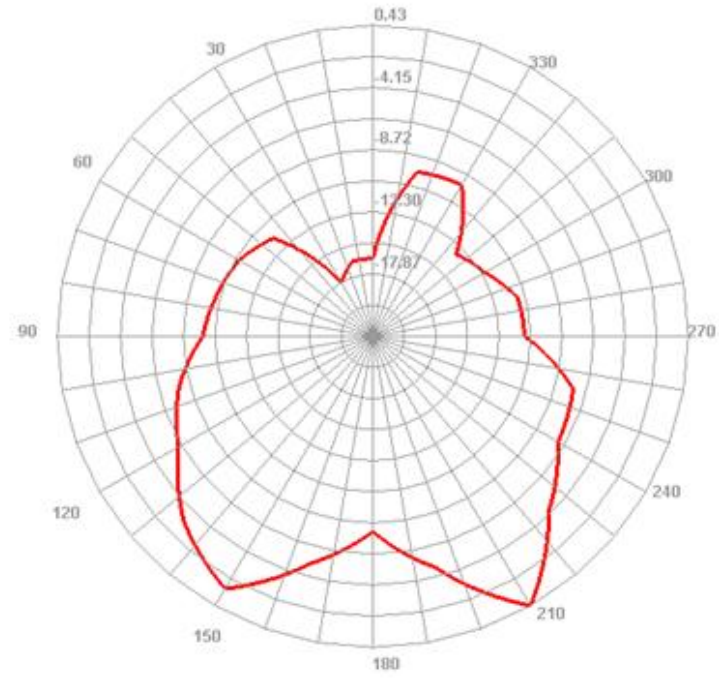
1575.491MHz H



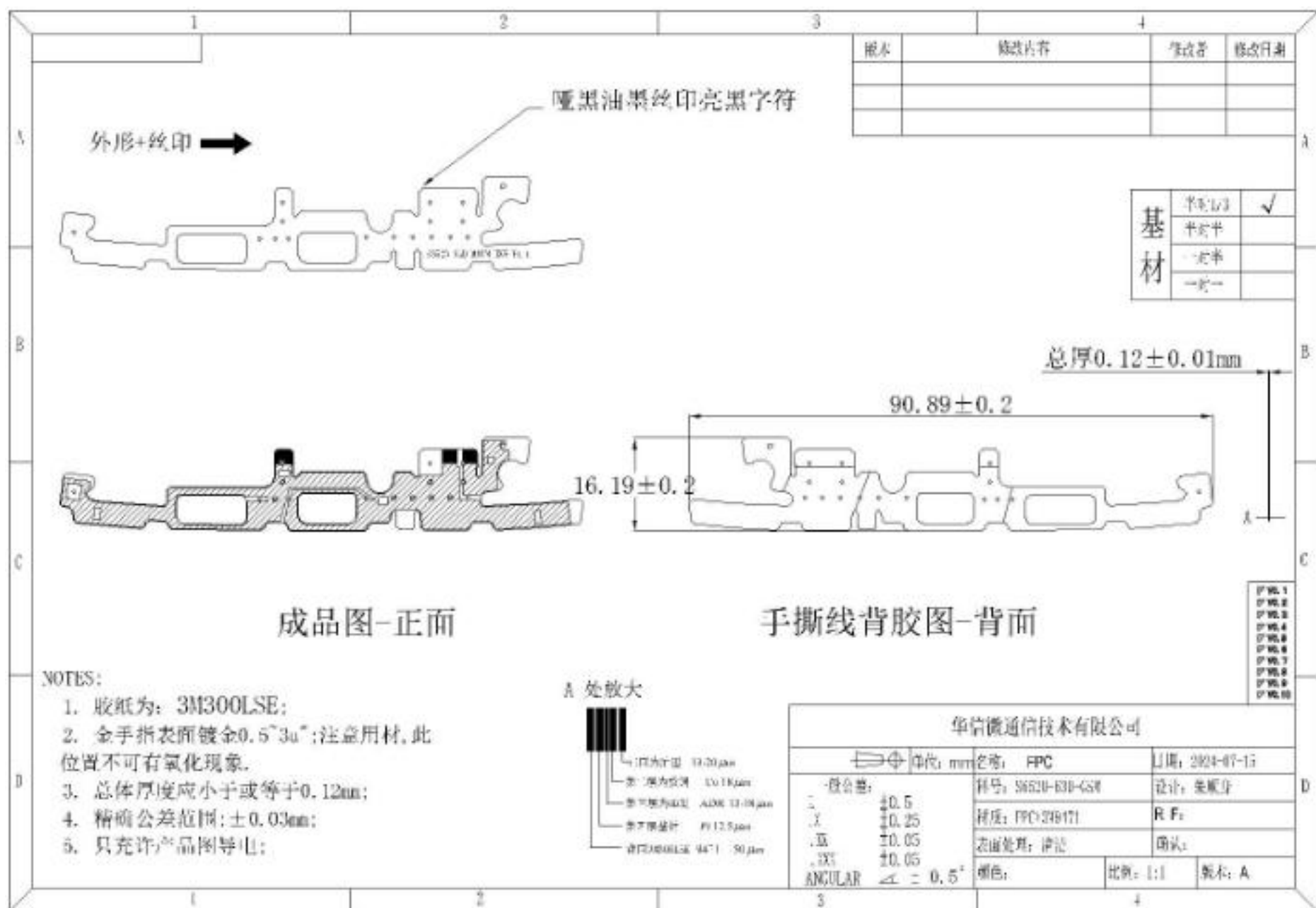
1575.491MHz E1

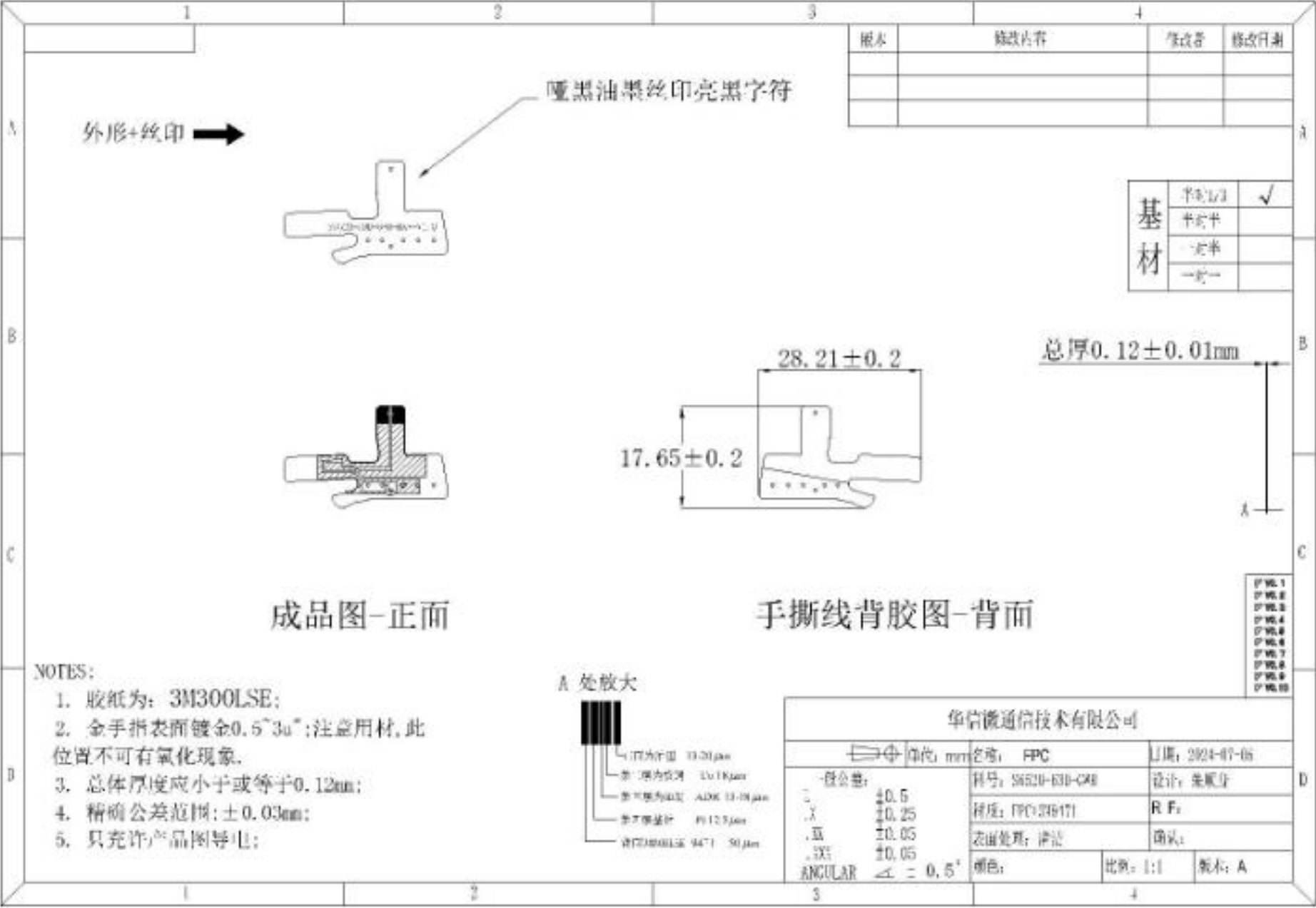


1575.491MHz E2



Master antenna specifications





1

2

3

4

A

B

C

D

1

2

3

4

Diversity antenna specifications

