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Co.,Ltd.

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Antenna test report

Customer Name: XunRui

Project Name: M8502D

Designer: Liu Chun Yun

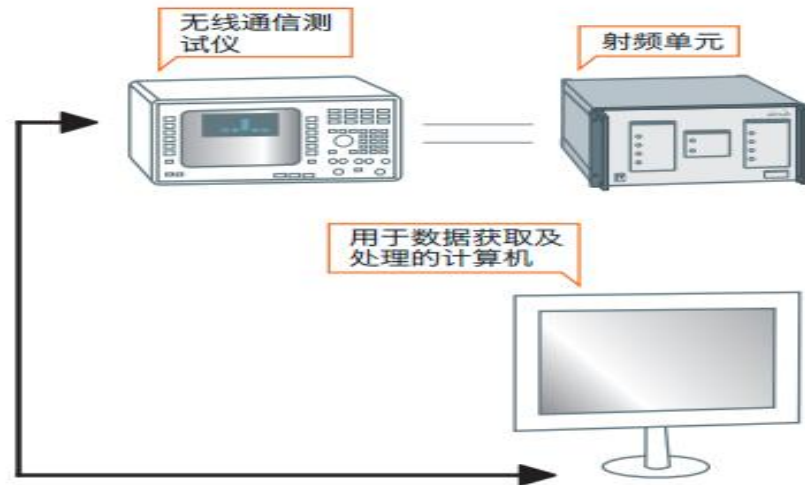
Date: 2024/5/15



The customer name		XunRui	Project Name	M8502D
NO.	project	Detailed above		
1	spectrum	GSM850/900/1800/1900+WCDMA-B1/B2/B4/B5/B8+LTE-B1/2/3/4/5/7/8/20+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

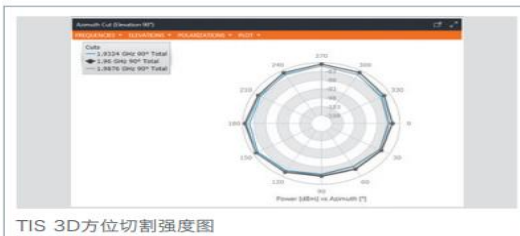
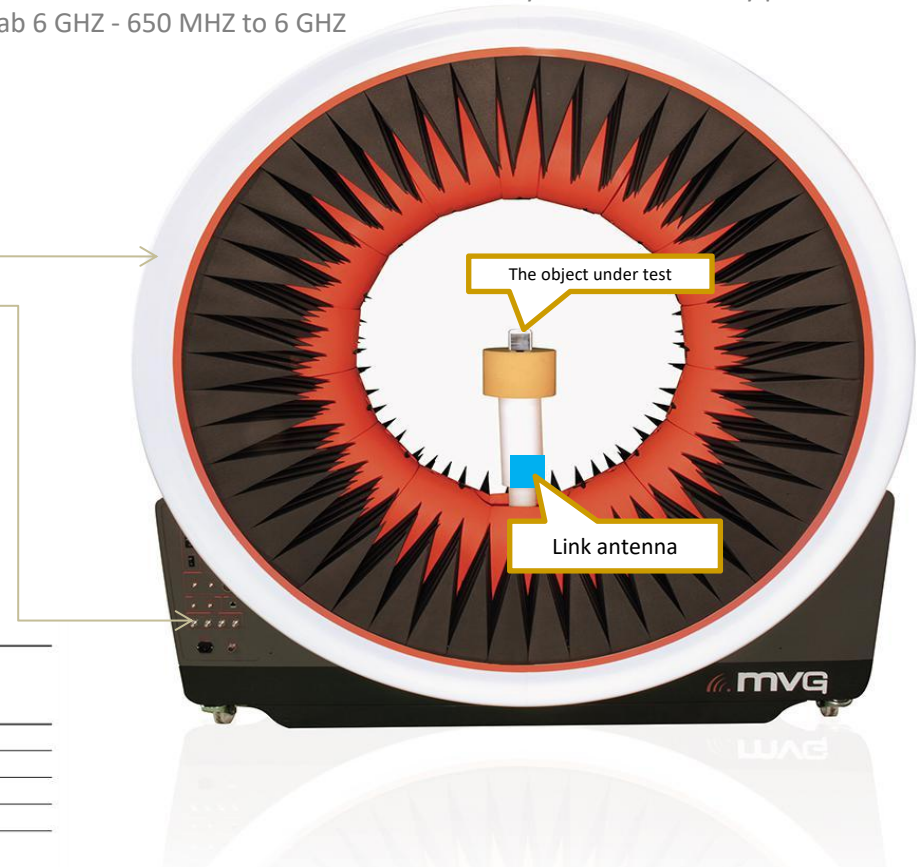
System Brand: MVG(SATIMO) measurement features: gain • pattern beamwidth cross polarization resolution sidelobe level 3D cavity reflectance at any polarization cavity reflectance (line or arc) antenna efficiency TRP, TIS, EIRP and EIS. Frequency band: StarLab 6 GHZ - 650 MHZ to 6 GHZ



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

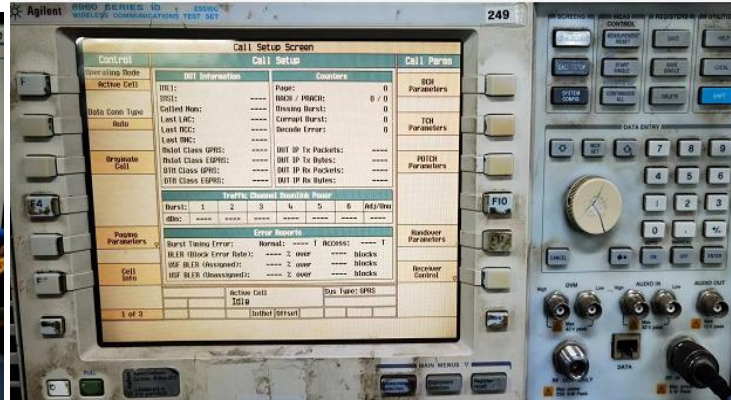


TIS 3D方位切割强度图



TRP 3D方位切割强度图

Test Equipment

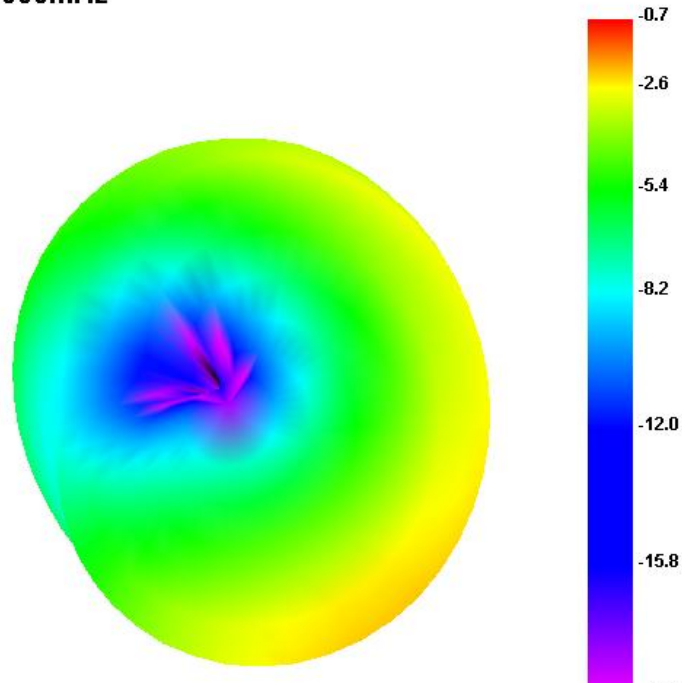


Efficient (2G+3G+4G+2. 4G-WiFi /BT)

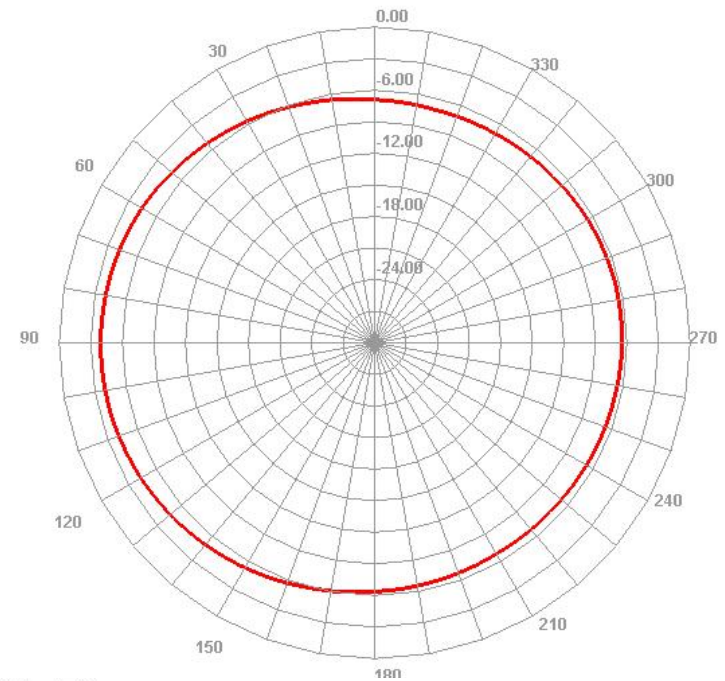
PEAK GAIN			
2G:	Frequency range	Effi %	Gaim dBi
GSM850	824~894Mhz	21.80	-0.71
GSM900	880~960Mhz	20.84	-1.05
DCS1800	1710~1880Mhz	28.62	+0.63
PCS1900	1850~1990Mhz	30.81	+0.81
3G:			
W1	1920~2170Mhz	37.45	+0.91
W2	1852~1932Mhz	30.1	+0.81
W4	1712~2112Mhz	31.4	+0.85
W5	826~871Mhz	21.8	+0.71
W8	880~960Mhz	20.84	-1.05
4G:			
LTE-B1	1920~2170Mhz	37.45	+0.91
LTE-B2	1850~1930Mhz	30.1	+0.81
LTE-B3	1710~1880Mhz	28.62	+0.63
LTE-B4	1710~2110Mhz	31.4	+0.85
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-B20	791~862Mhz	20.84	-0.71
2. 4G-WIFI	2400~2500Mhz	42.52	+1.37
5. 8G-WIFI	5150~5850Mhz	49.13	+1.29
BT	2400~2500Mhz	42.51	+1.37
GPS	1575Mhz	38.73	+0.43

Efficient (791-894MHz)

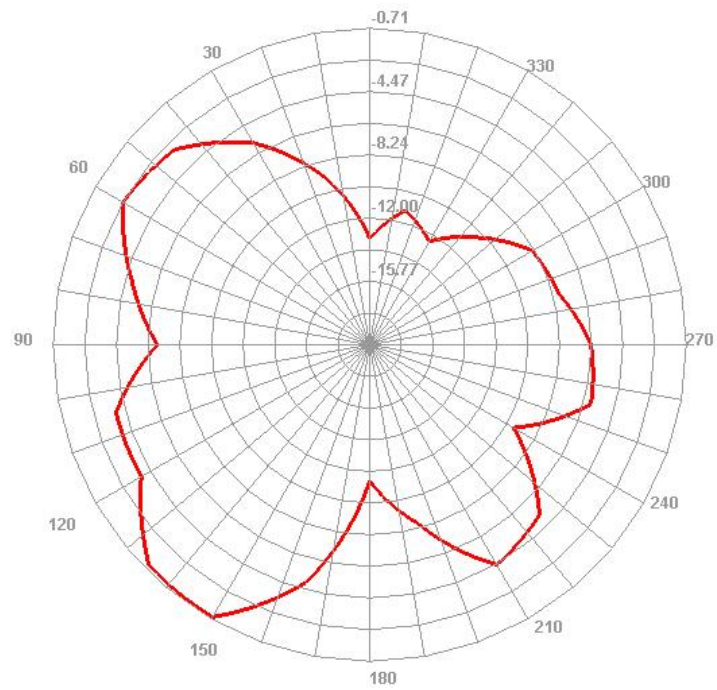
830.000MHz



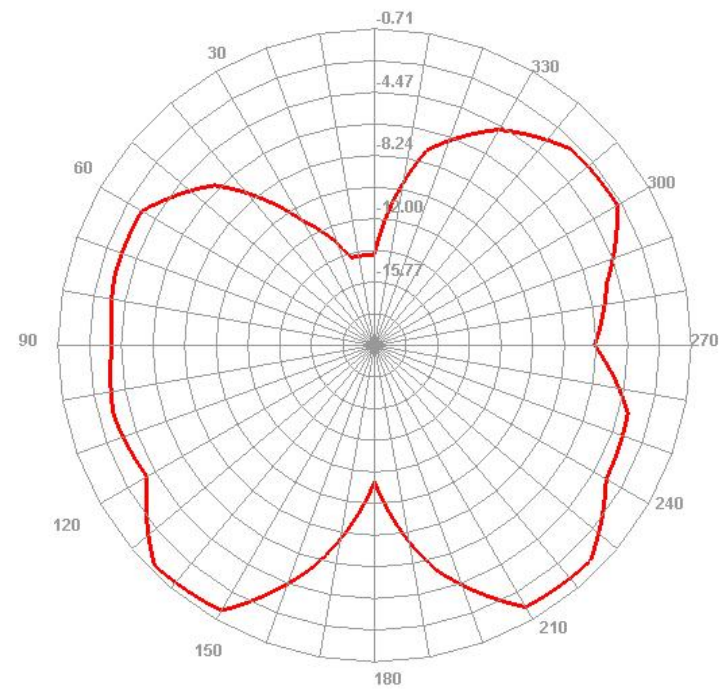
830.000MHz H



830.000MHz E1

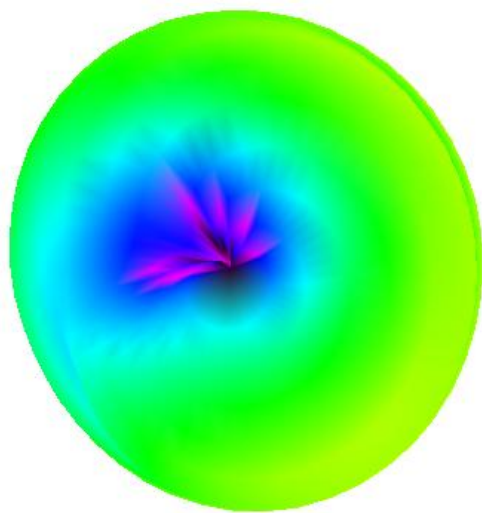


830.000MHz E2

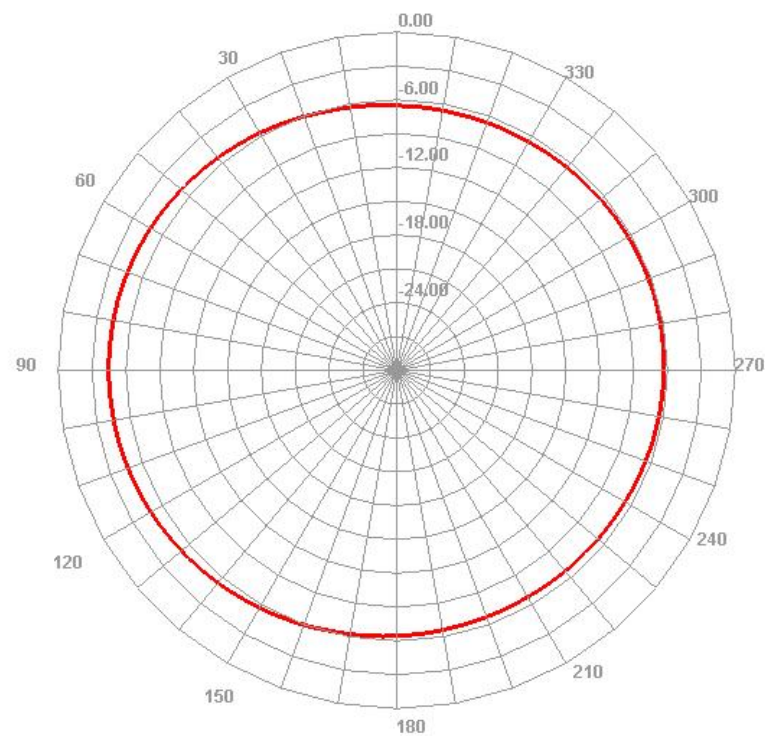


Efficient (880-960MHz)

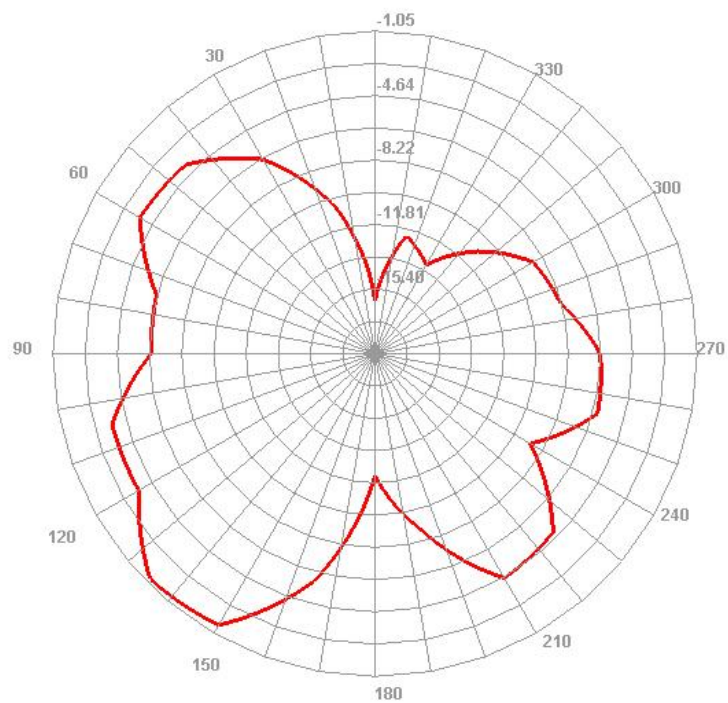
900.000MHz



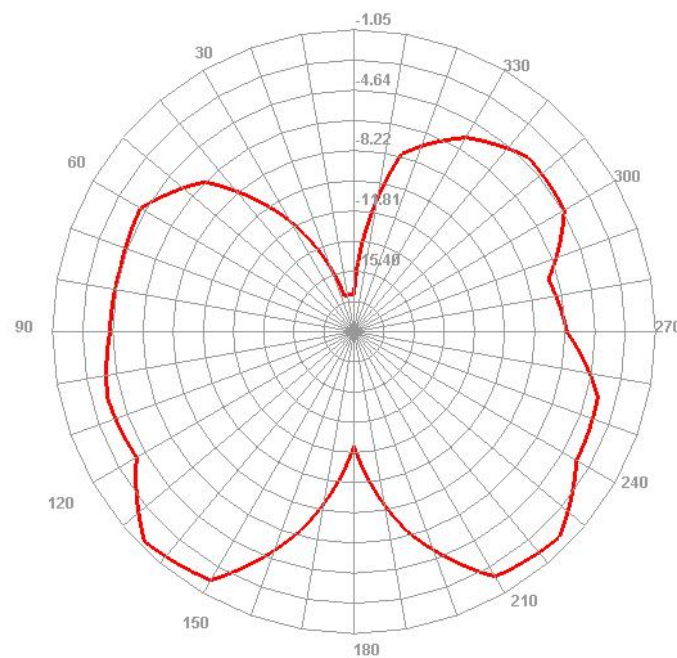
900.000MHz H



900.000MHz E1

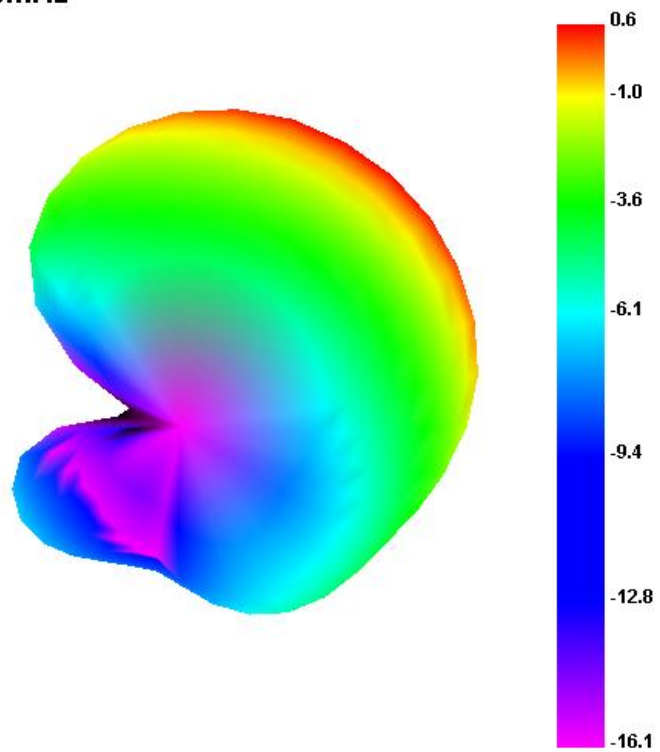


900.000MHz E2

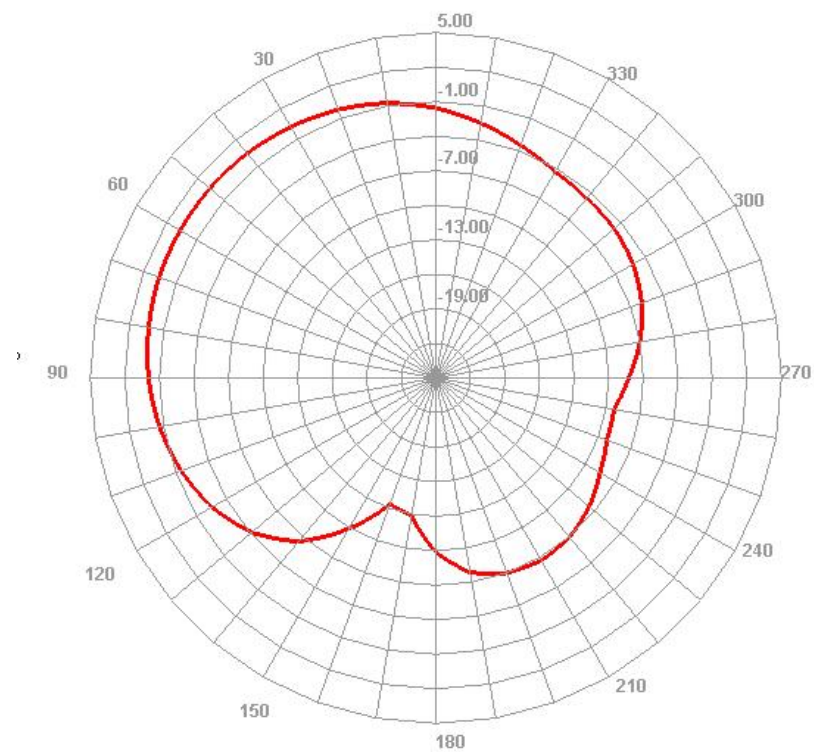


Efficient (1710–1880MHz)

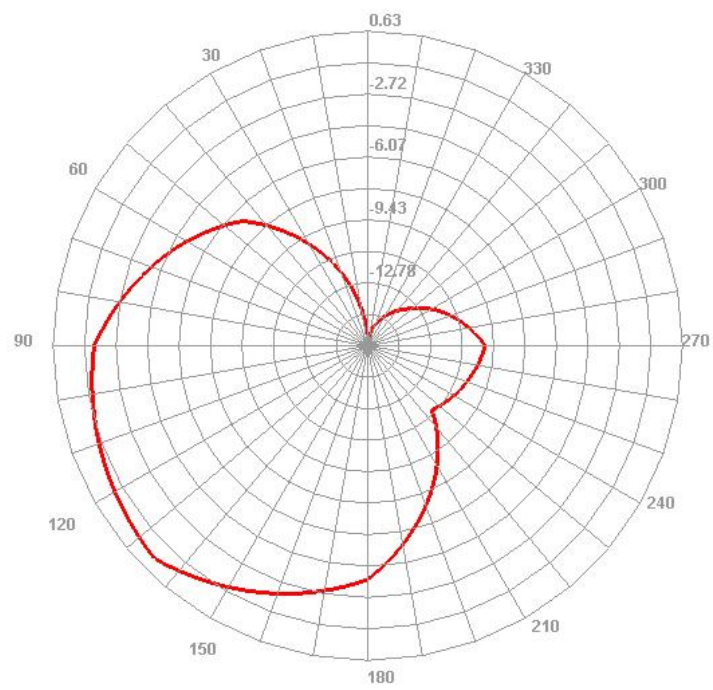
1820.000MHz



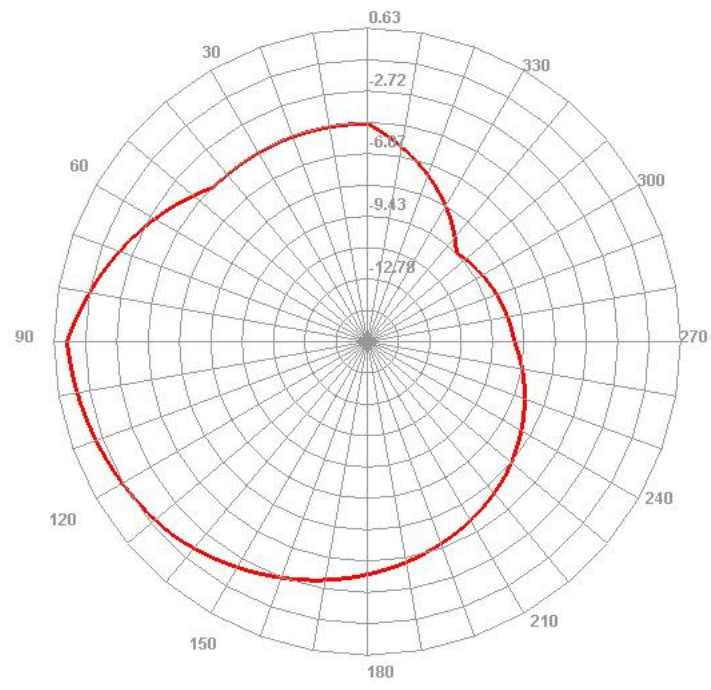
1820.000MHz H



1820.000MHz E1

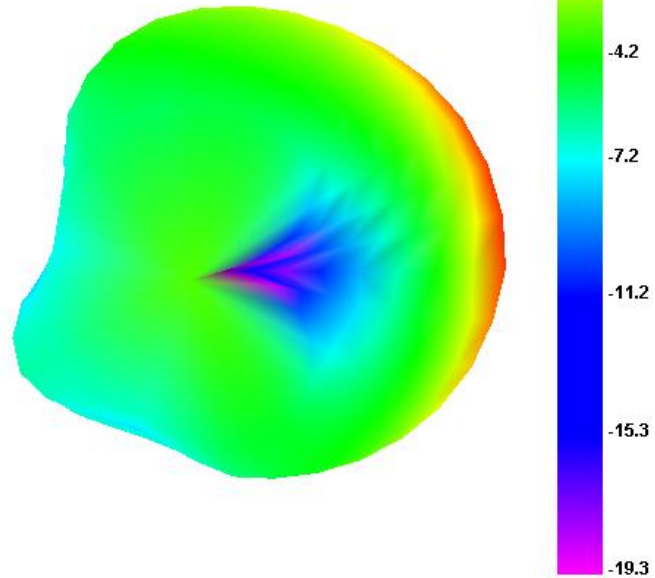


1820.000MHz E2

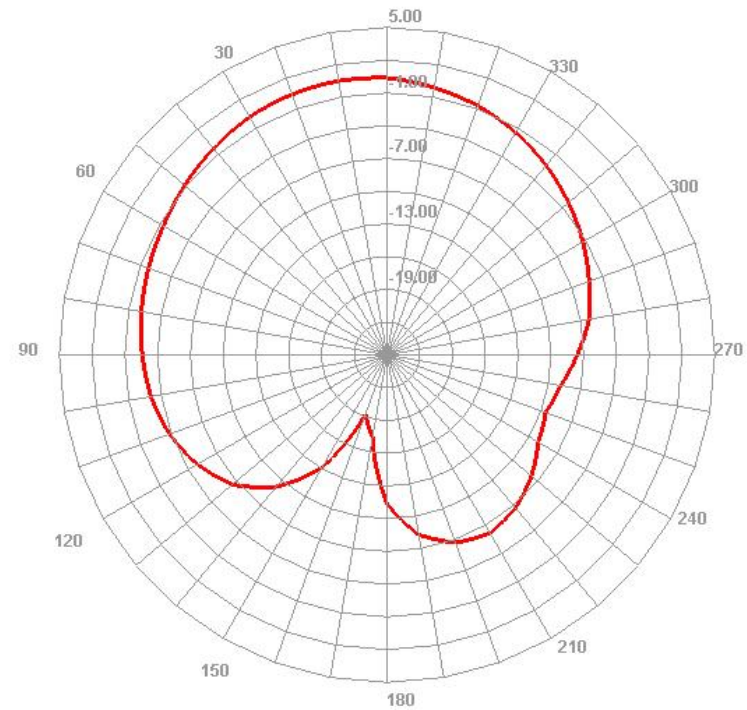


Efficient (1710–1990MHz)

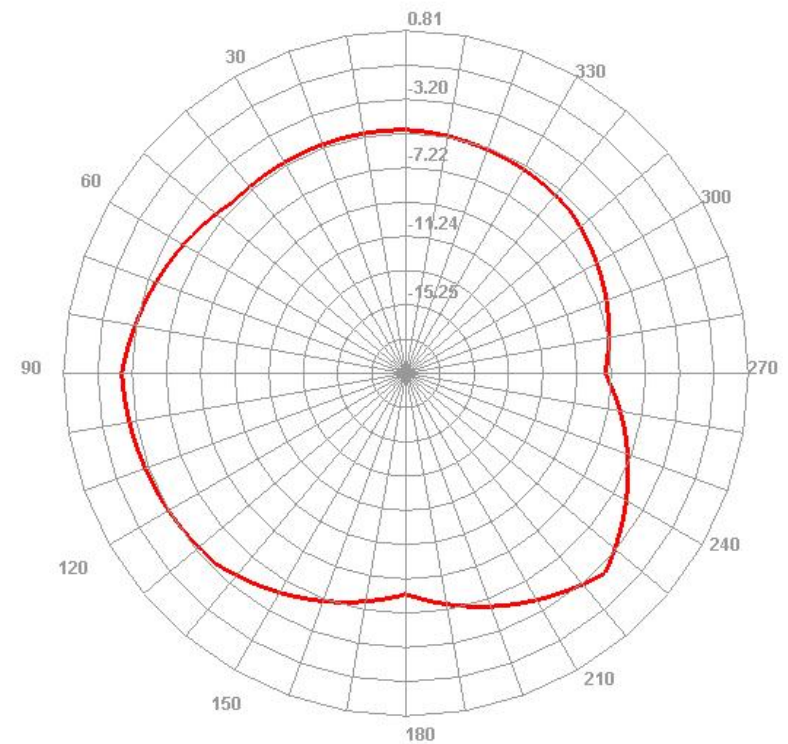
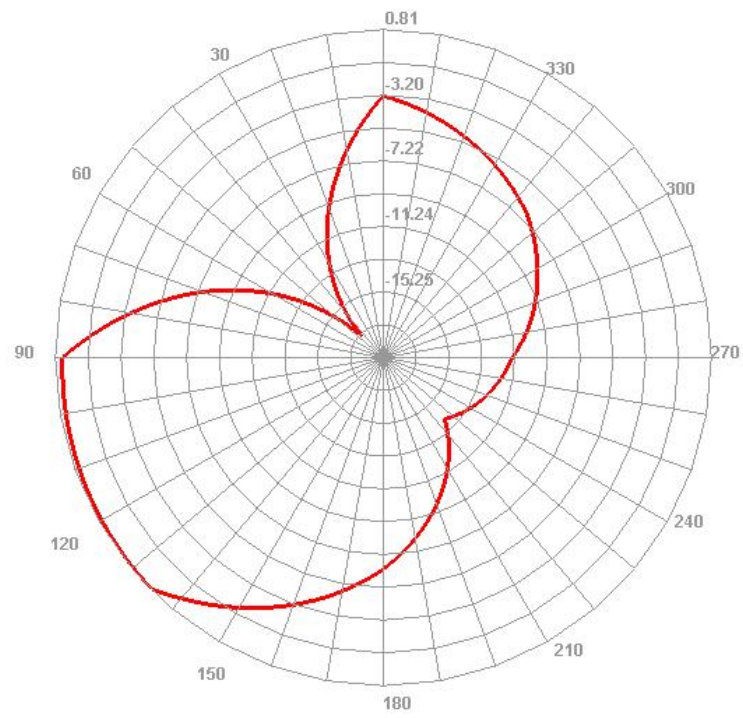
1920.000MHz



1920.000MHz H

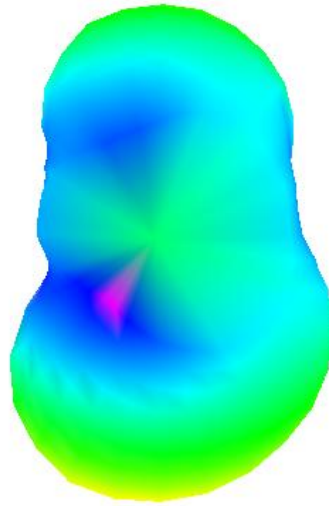


1920.000MHz E1

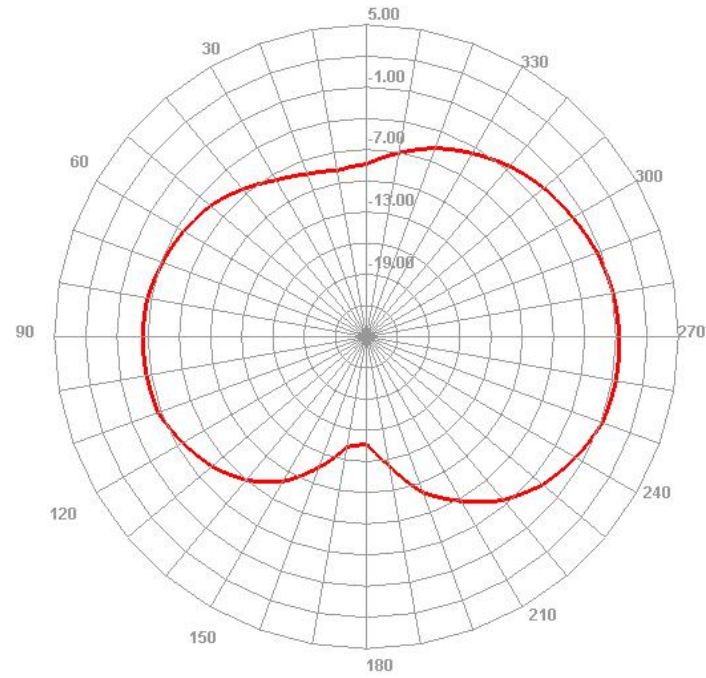


Efficient (1920-2170MHz)

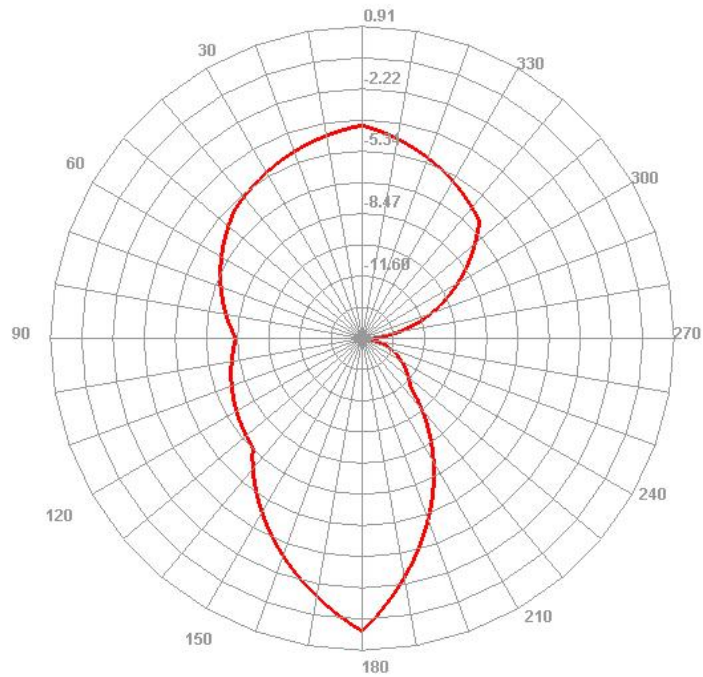
2010.000MHz



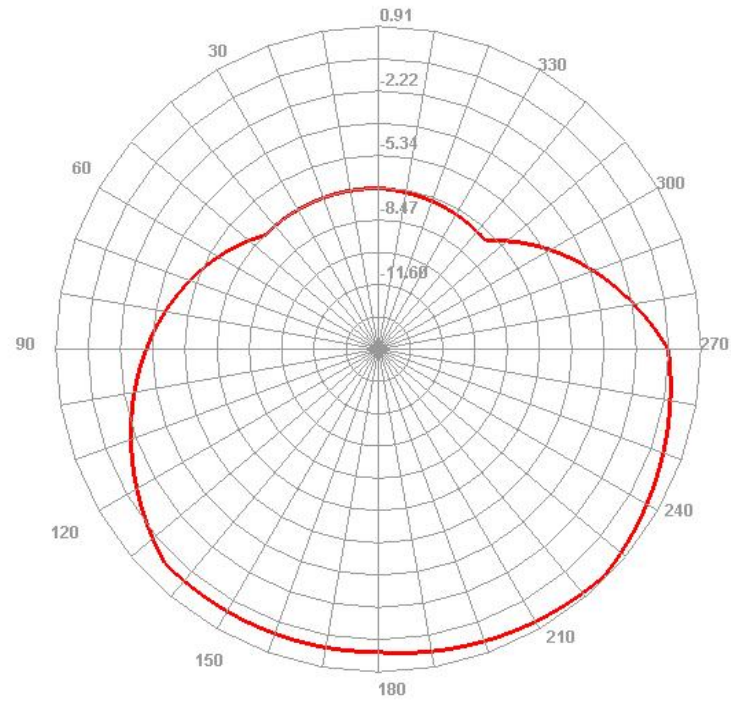
2010.000MHz H



2010.000MHz E1

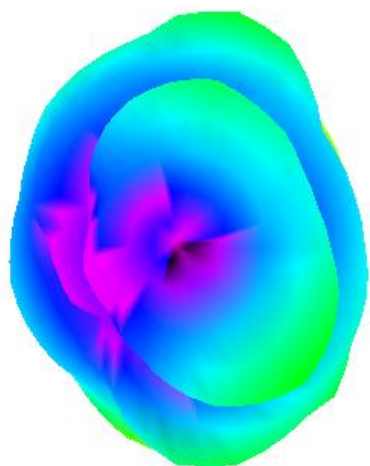


2010.000MHz E2

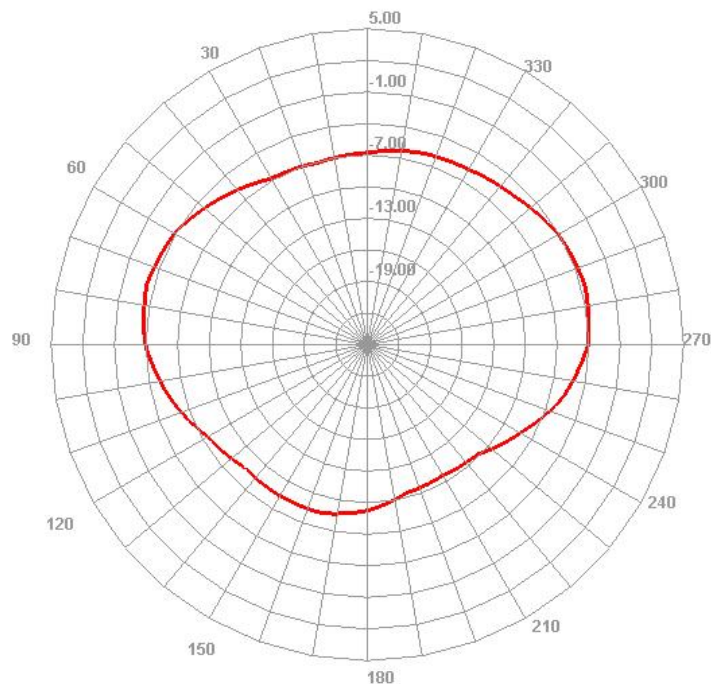


Efficient (2300–2400MHz)

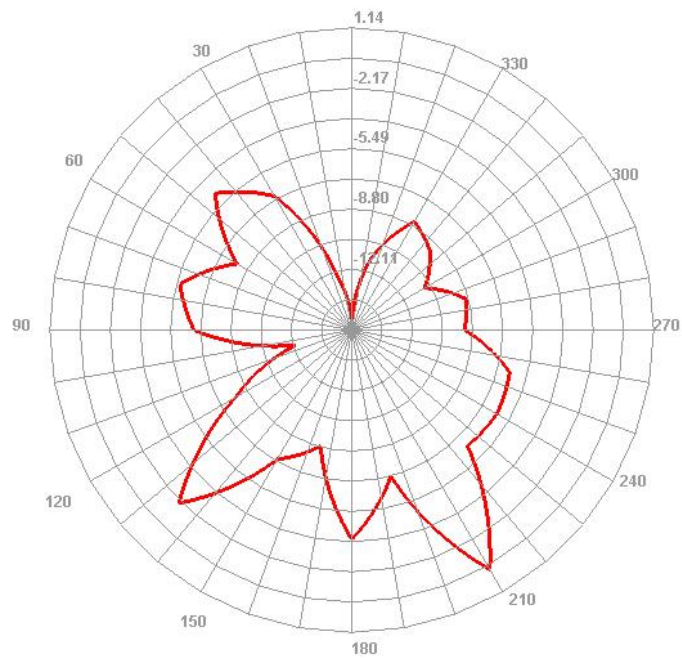
2370.000MHz



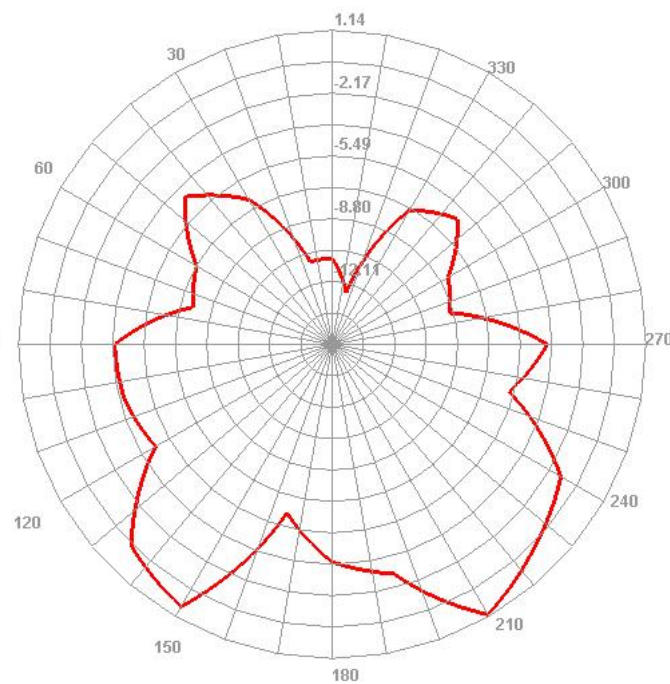
2370.000MHz H



2370.000MHz E1

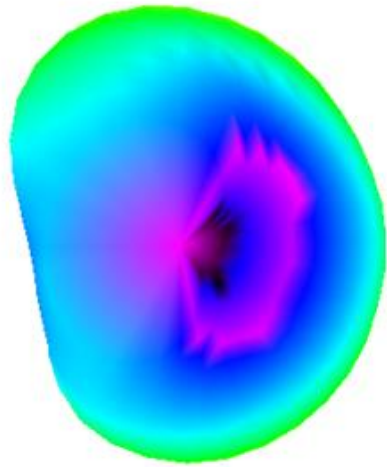


2370.000MHz E2

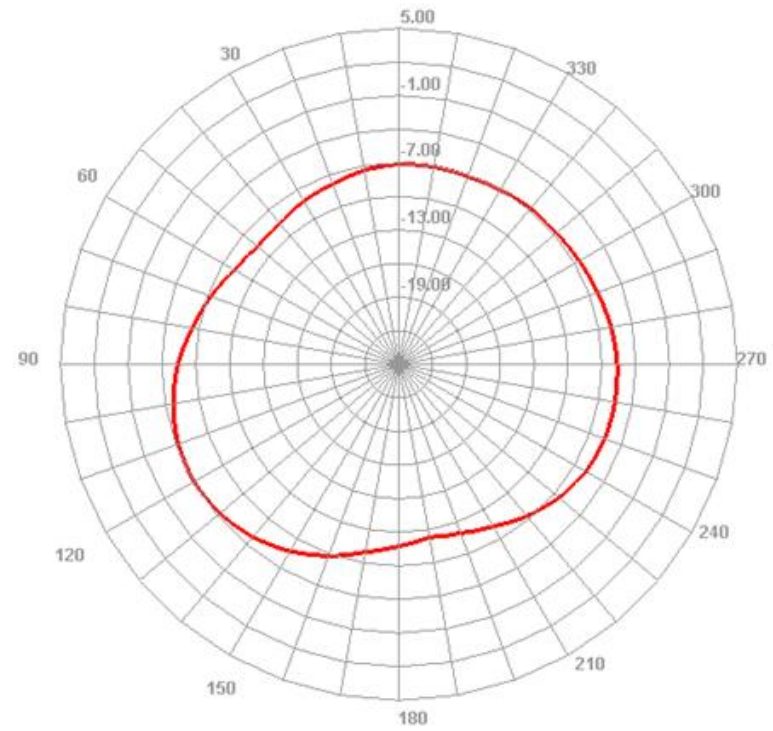


Efficient (2500–2690MHz)

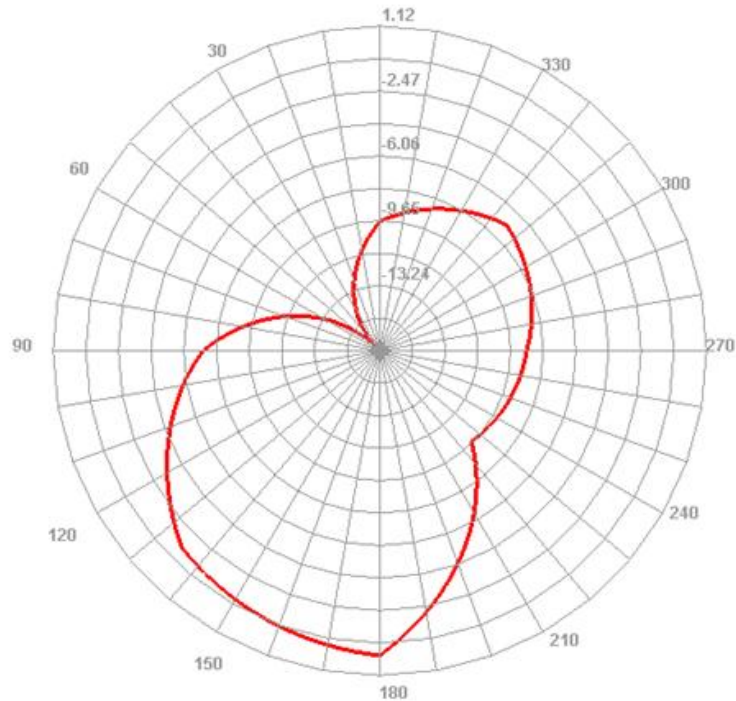
2660.000MHz



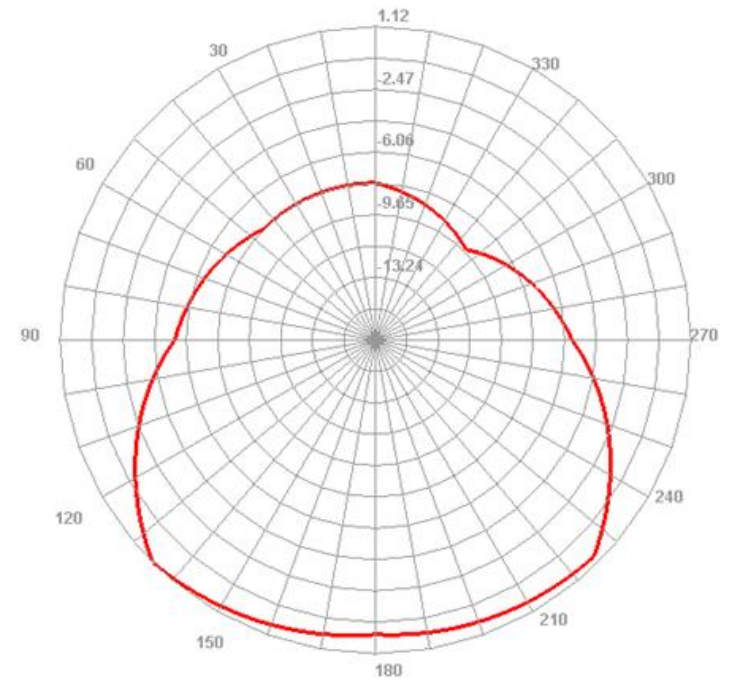
2660.000MHz H



2660.000MHz E1

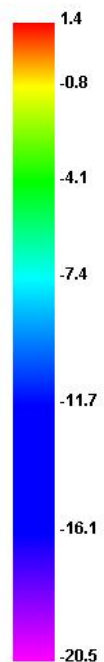
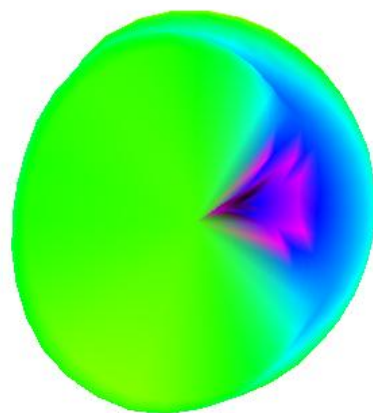


2660.000MHz E2

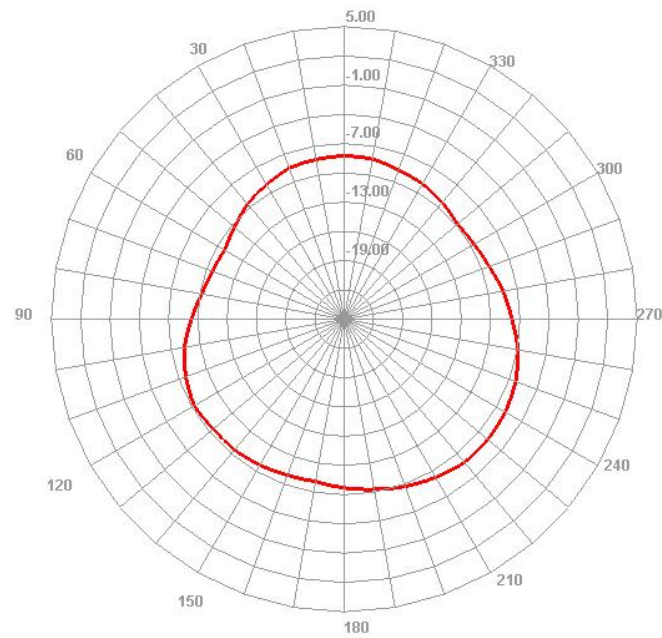


Efficient (2. 4G-WIFI/BT 2400-2500MHz)

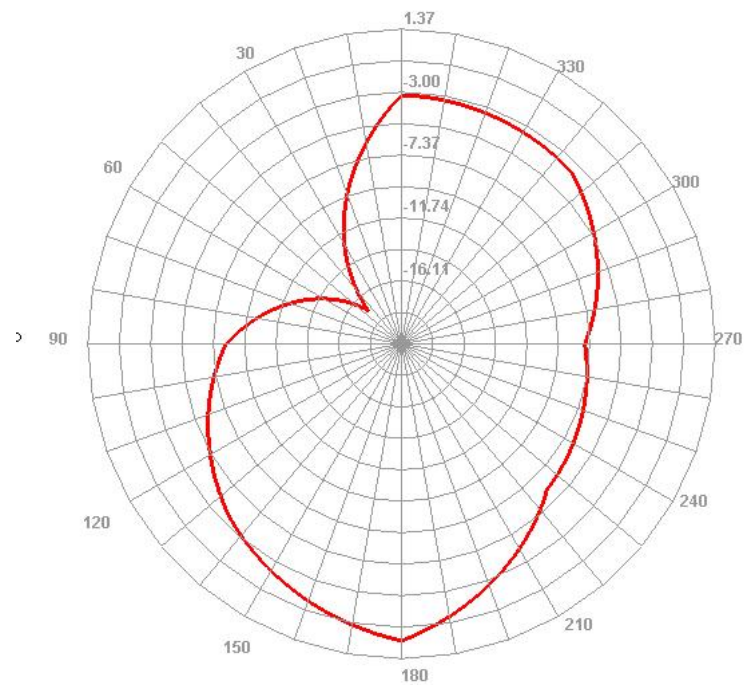
2450.000MHz



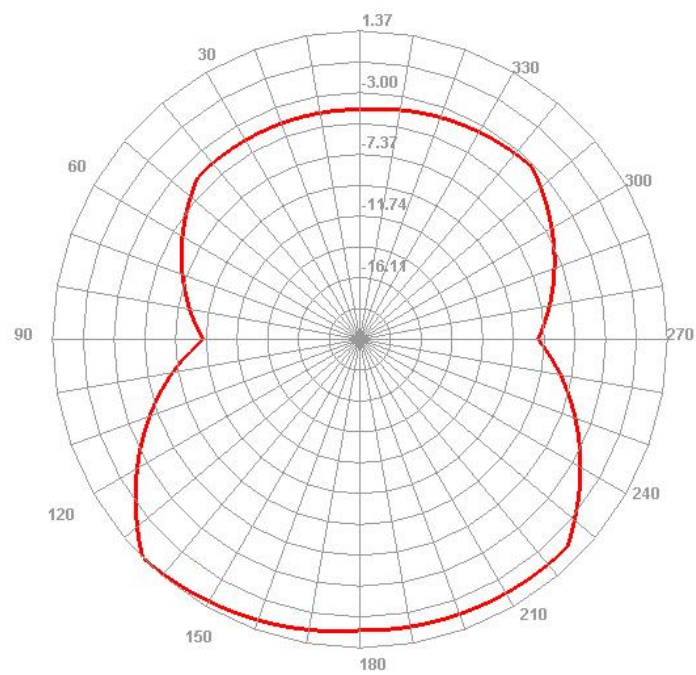
2450.000MHz H



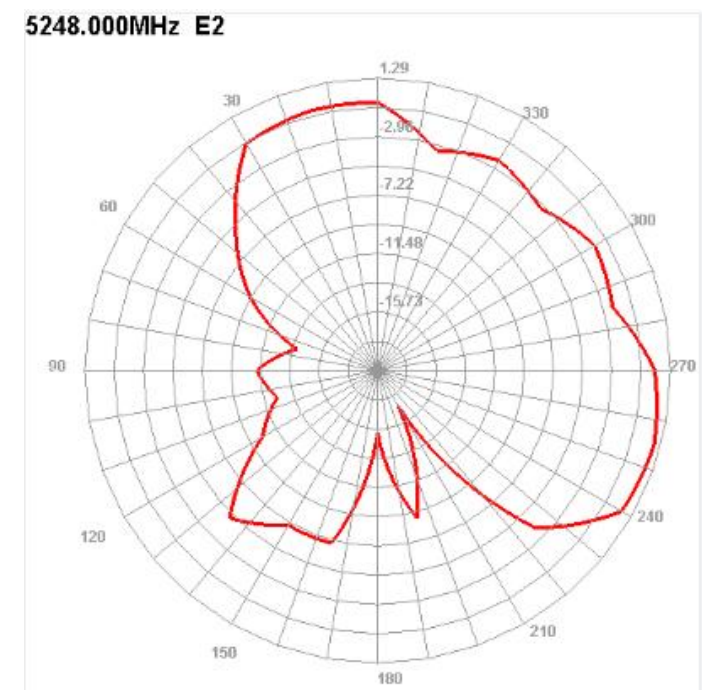
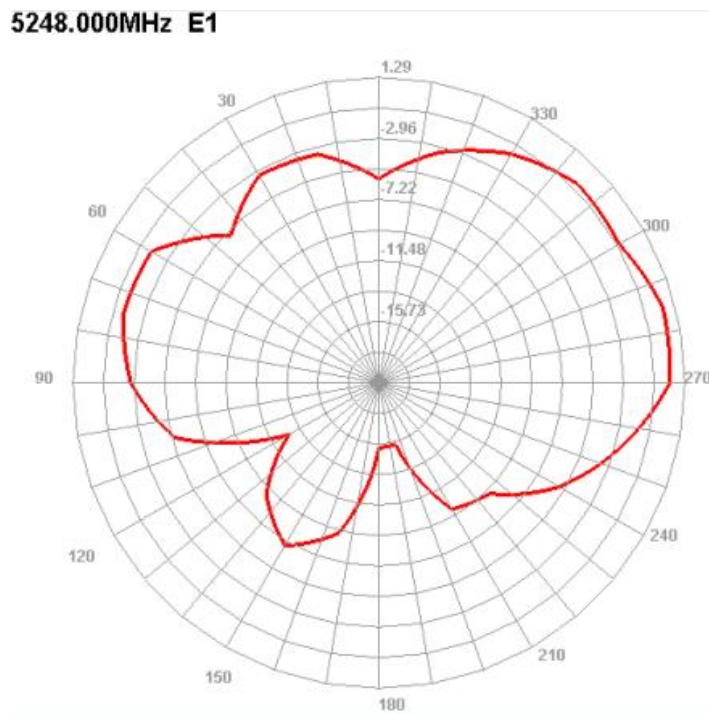
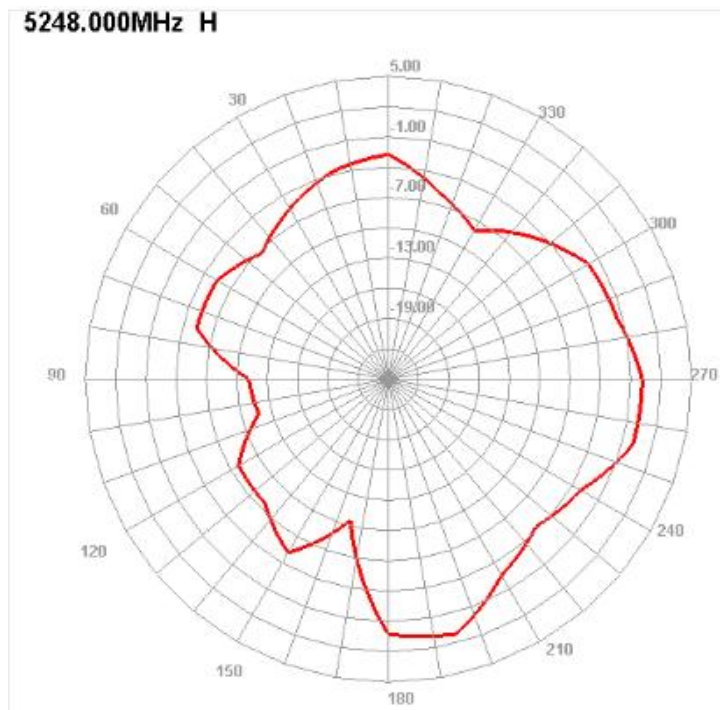
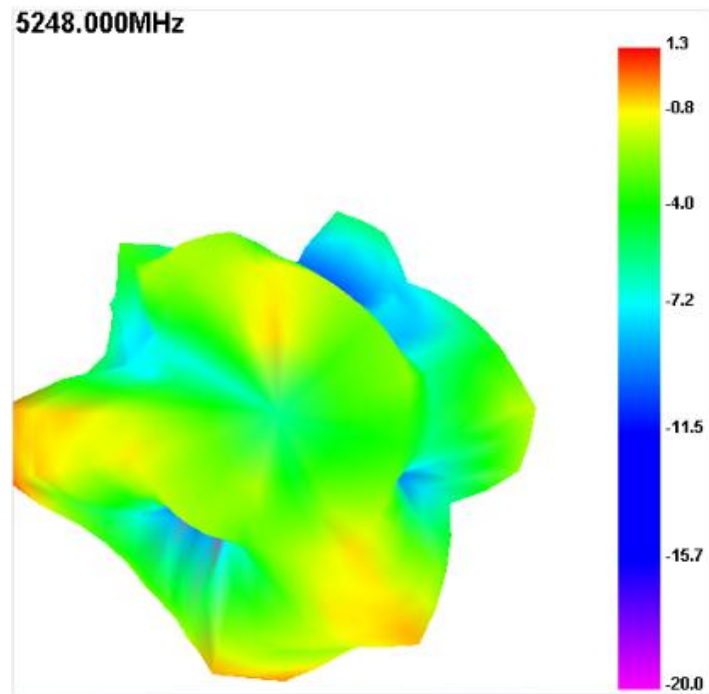
2450.000MHz E1



2450.000MHz E2

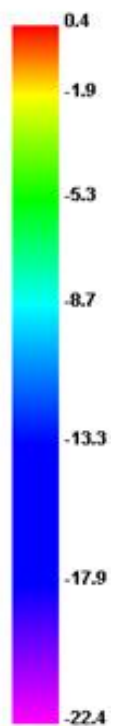
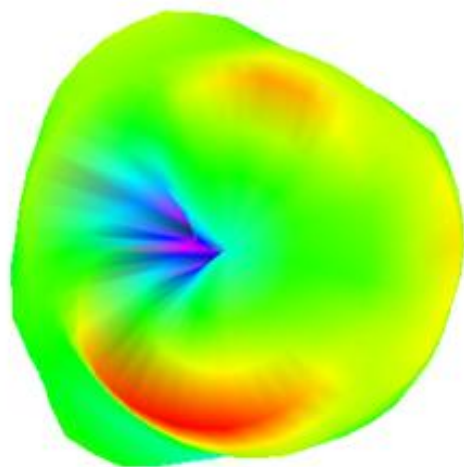


Efficient (5.8-WIFI/5150~5850Mhz)

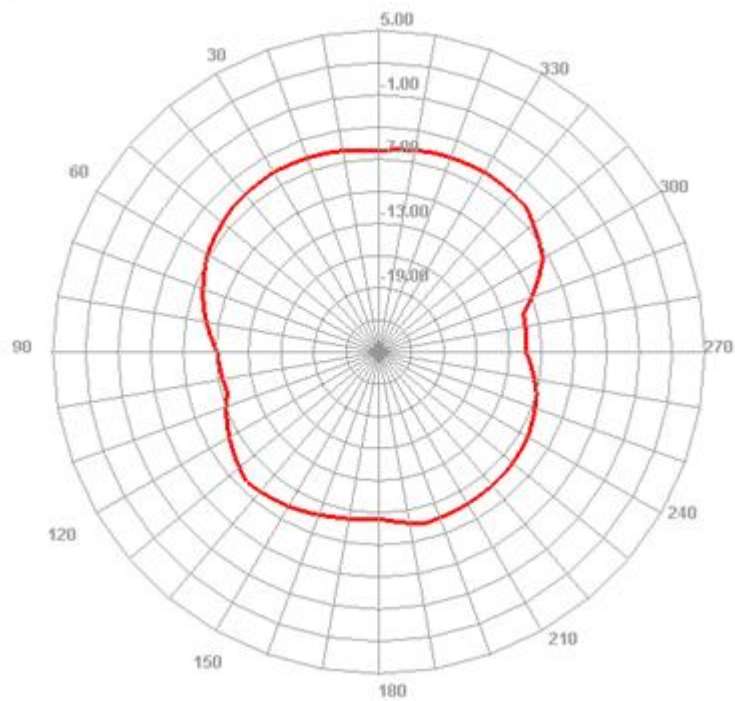


Efficient (GPS 1575.42MHz)

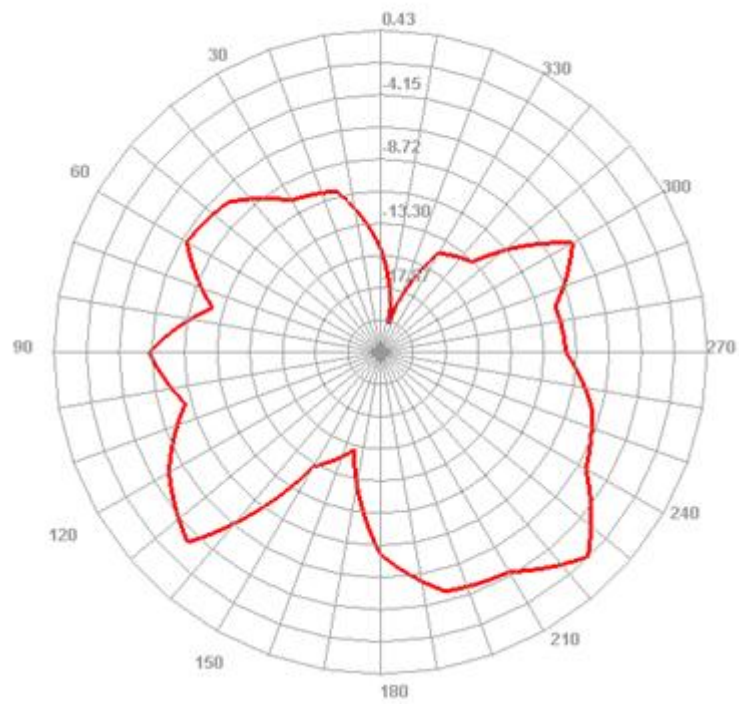
1575.491MHz



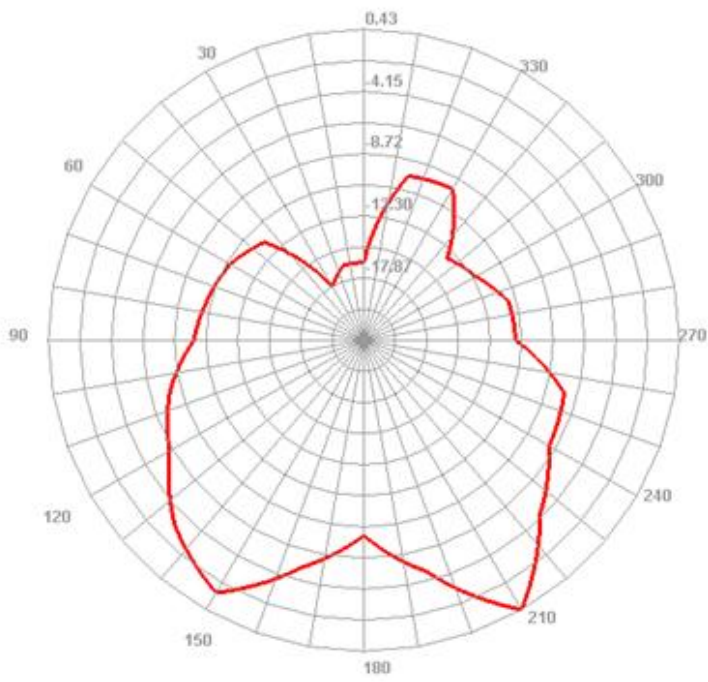
1575.491MHz H



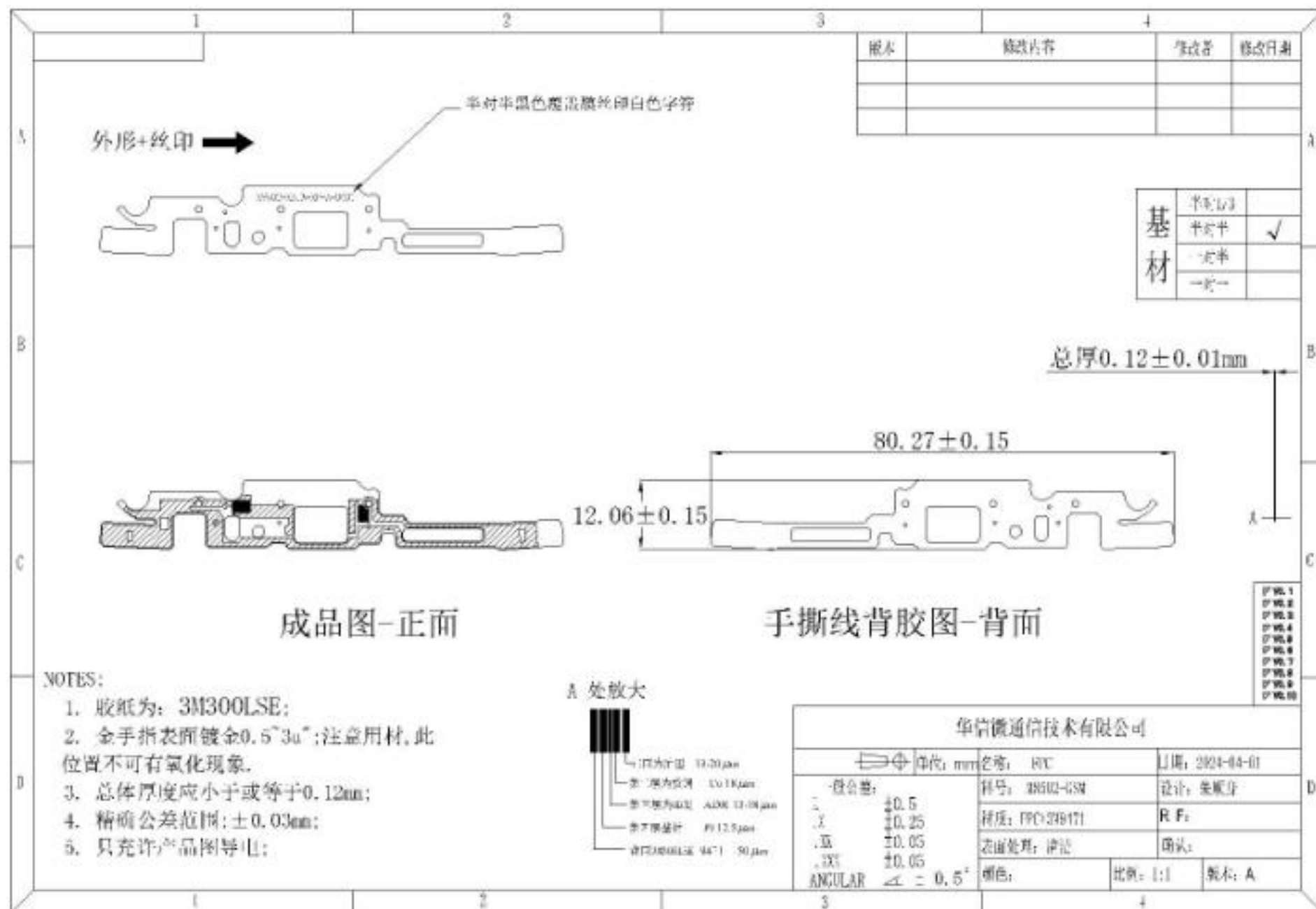
1575.491MHz E1

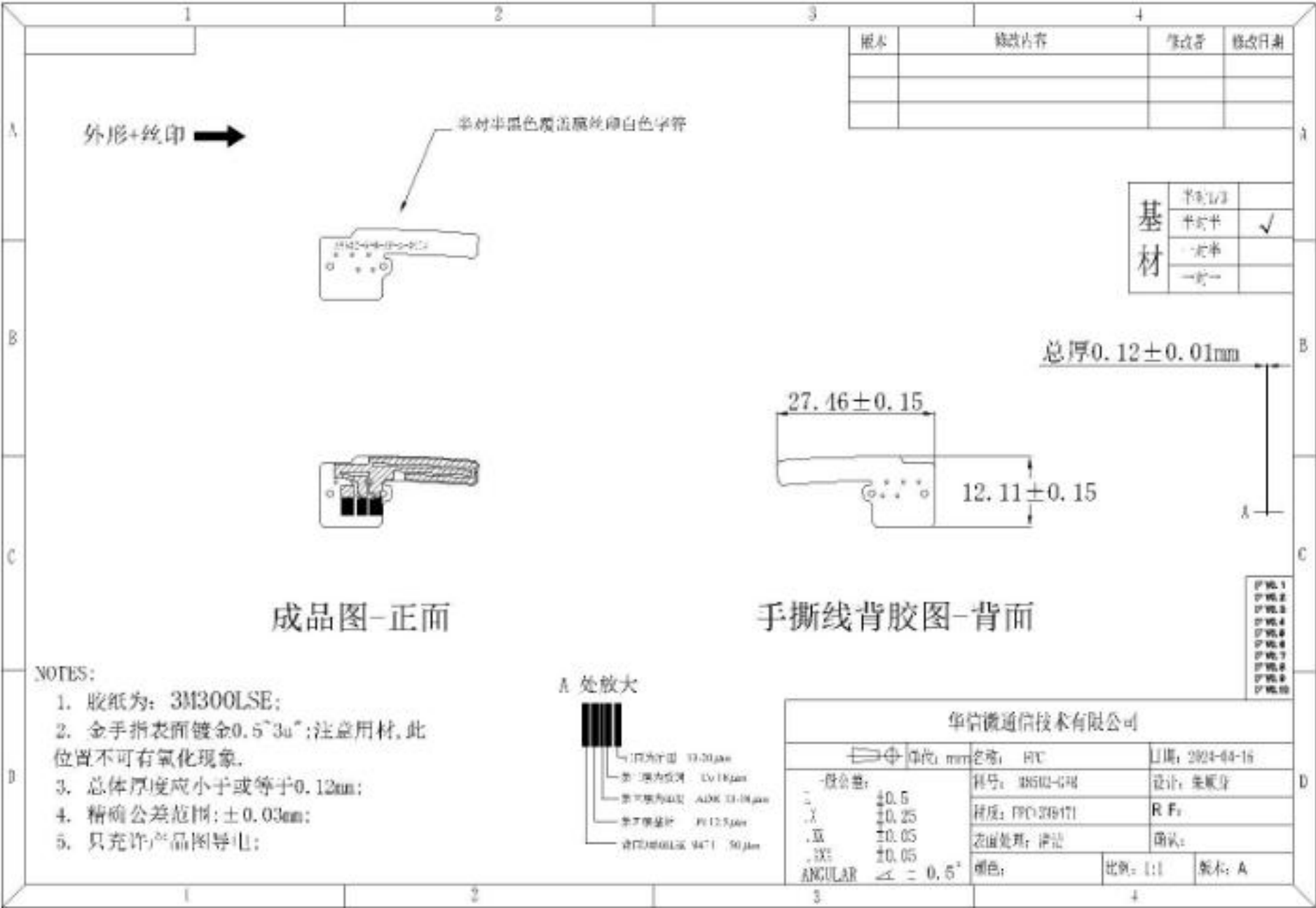


1575.491MHz E2



Master antenna specifications





Diversity antenna specifications

