



ShenZhen Huaxinwei communication technology
Co.,Ltd.

Antenna test report

Customer Name: Xun Rui

Project Name: S60620

Designer: Zhang Jun

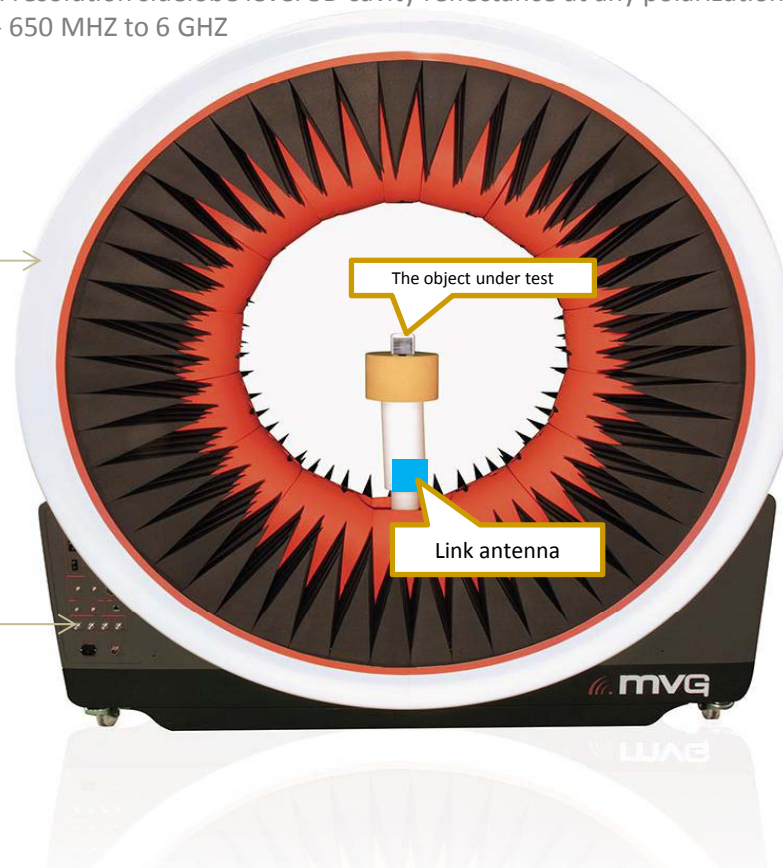
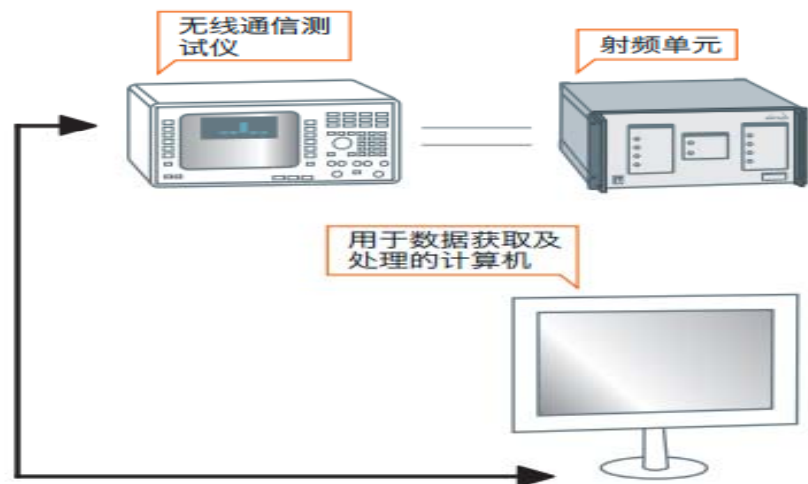
Date: 2023/02/18



The customer name		Xun Rui	Project Name	S60620
NO.	project	Detailed above		
1	spectrum	GSM850/900+WCDMA-B2/8+LTE-B3/4+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	hxw_xiaozhang@126.com

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



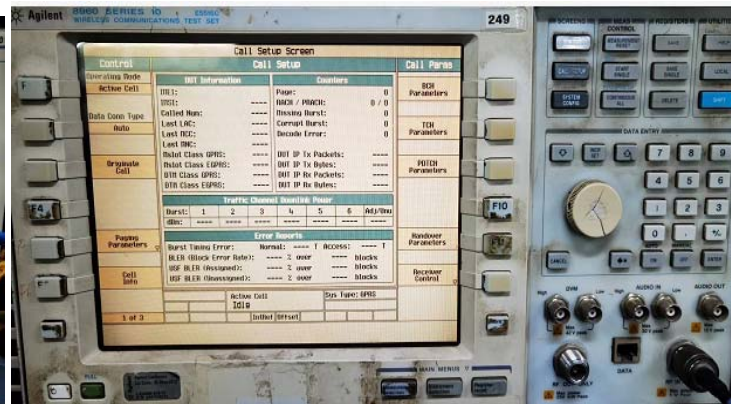
TIS预计测量时间 (一个信道每隔30° 取样)

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

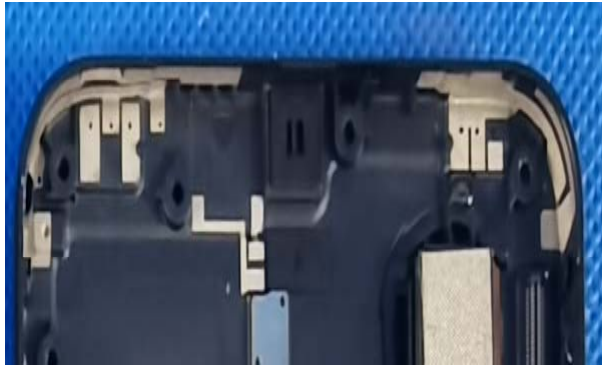


Test Equipment

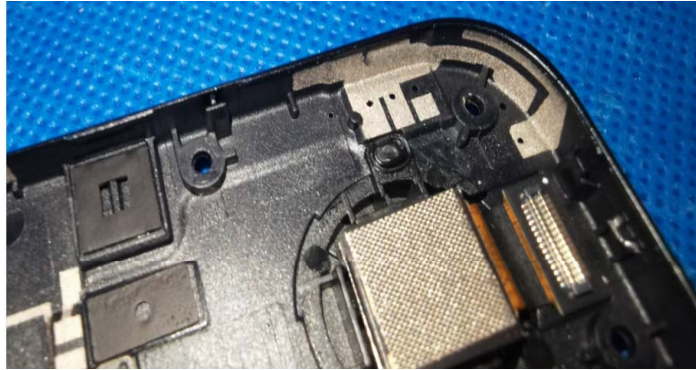


Antenna position

WWAN LB antenna



GPS/WIFI/BT antenna



WWAN M&H antenna

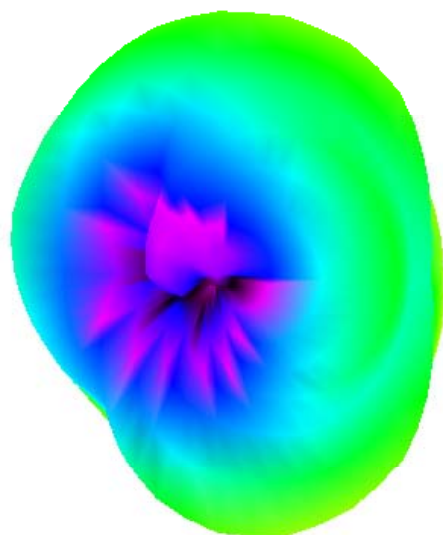


Efficient (2G+3G+4G+WiFi /BT+GPS)

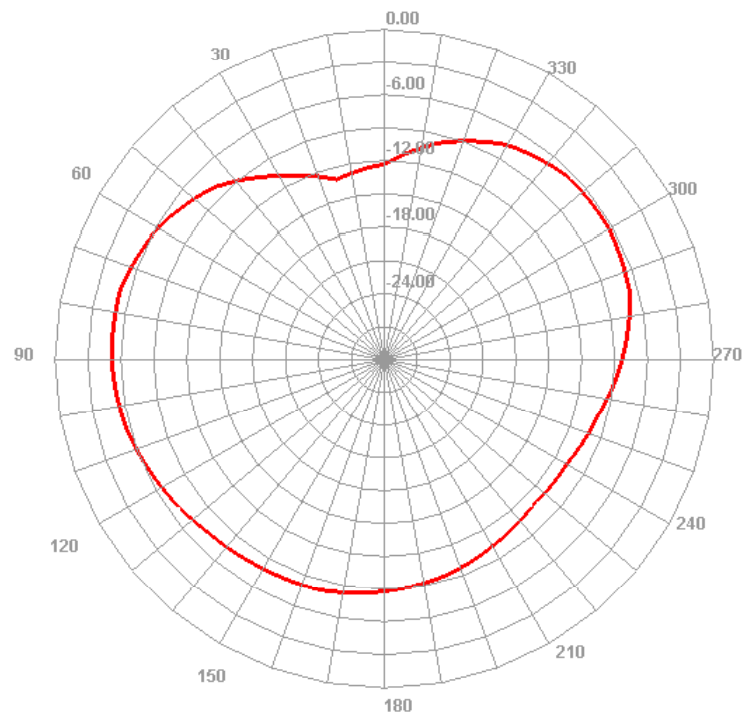
PEAK GAIN			
2G:	Frequency range	Efficiency(%)	Gain(dBi)
GSM850	824~894Mhz	20.05	-0.95
GSM900	880~960Mhz	23.58	-0.98
3G:			
W2	1850~1990Mhz	32.46	1.08
W5	880~960Mhz	23.58	-0.98
4G:			
LTE-B3	1710~1880Mhz	31.82	1.01
LTE-B4	1710~2155Mhz	31.97	1.03
5G-WIFI	5000~5800Mhz	36.83	2.01
2.4G-WIFI	2400~2500Mhz	34.67	1.01
BT	2400~2500Mhz	34.67	1.01
GPS	1575Mhz	33.16	0.43

Efficient (GSM850 824~894MHz)

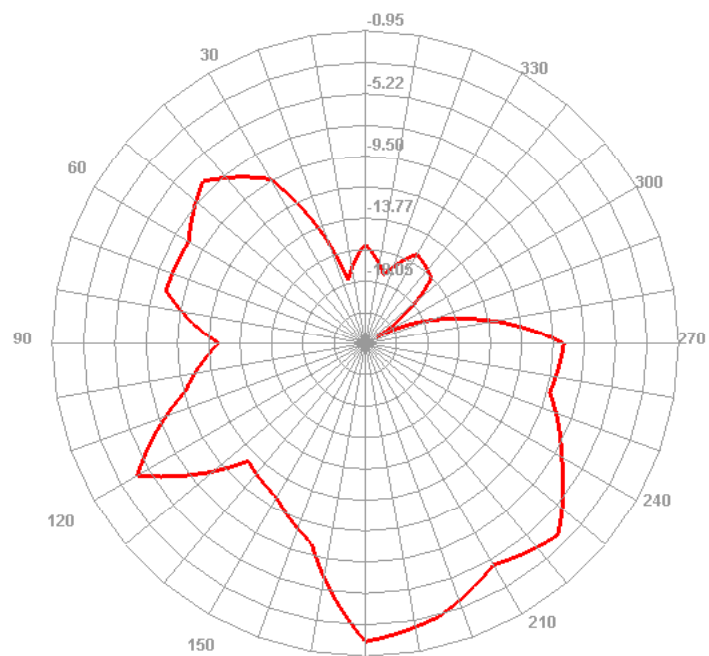
840.000MHz



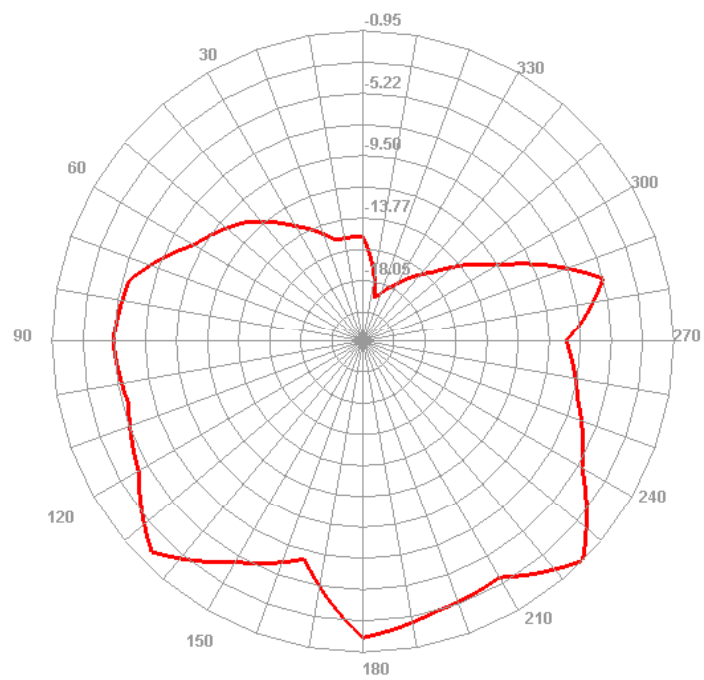
810.000MHz H



810.000MHz E1

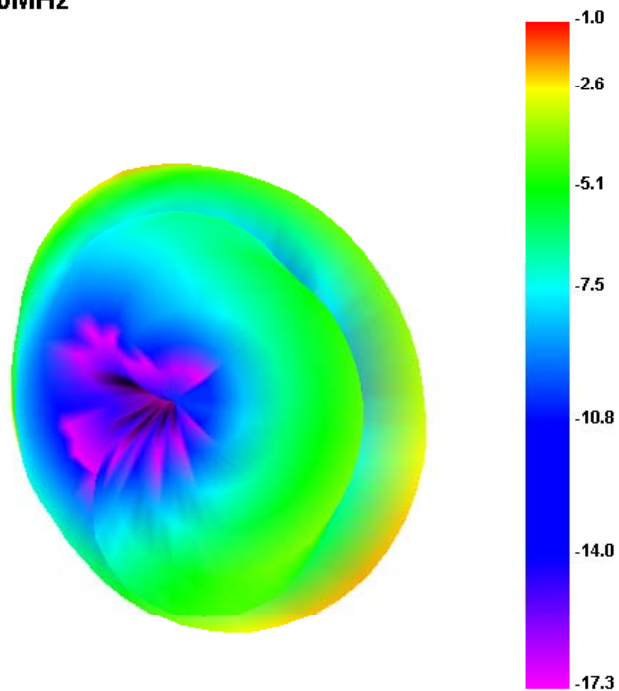


810.000MHz E2

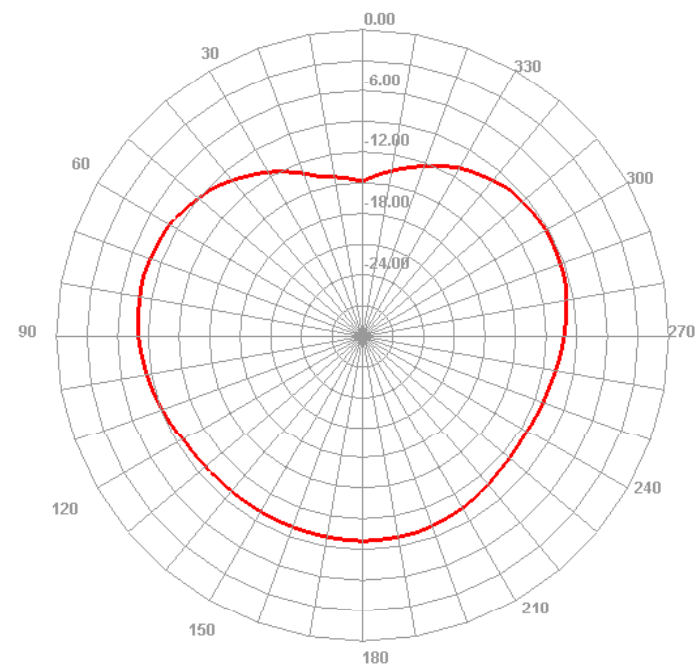


Efficient (GSM900+W8 880~960MHz)

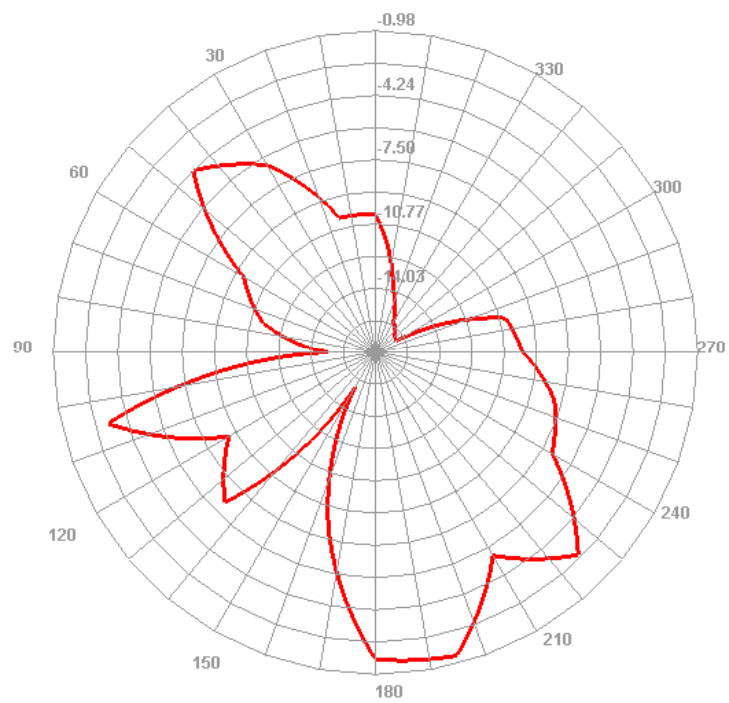
920.000MHz



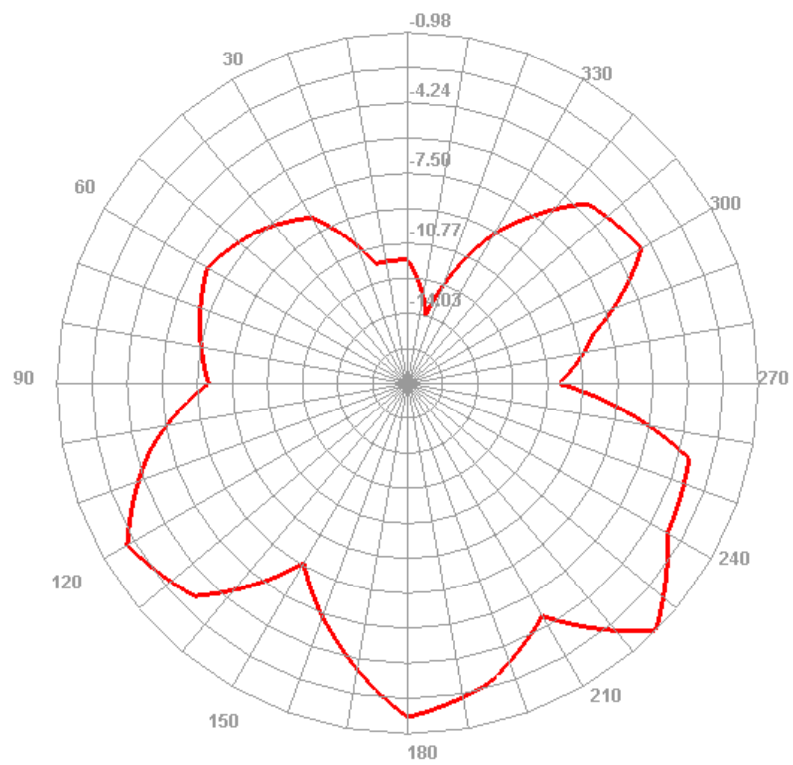
920.000MHz H



920.000MHz E1

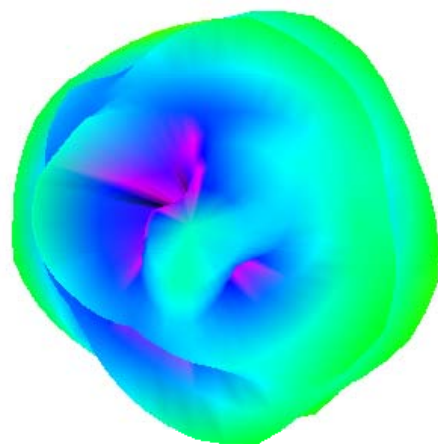


920.000MHz E2

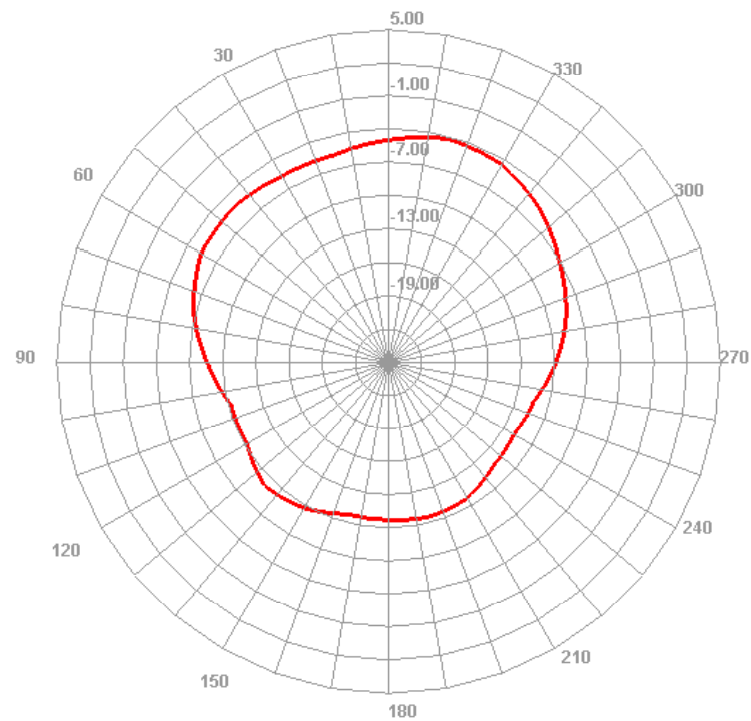


Efficient (GSM1800+LTE-B3/4 1710~2170 MHz)

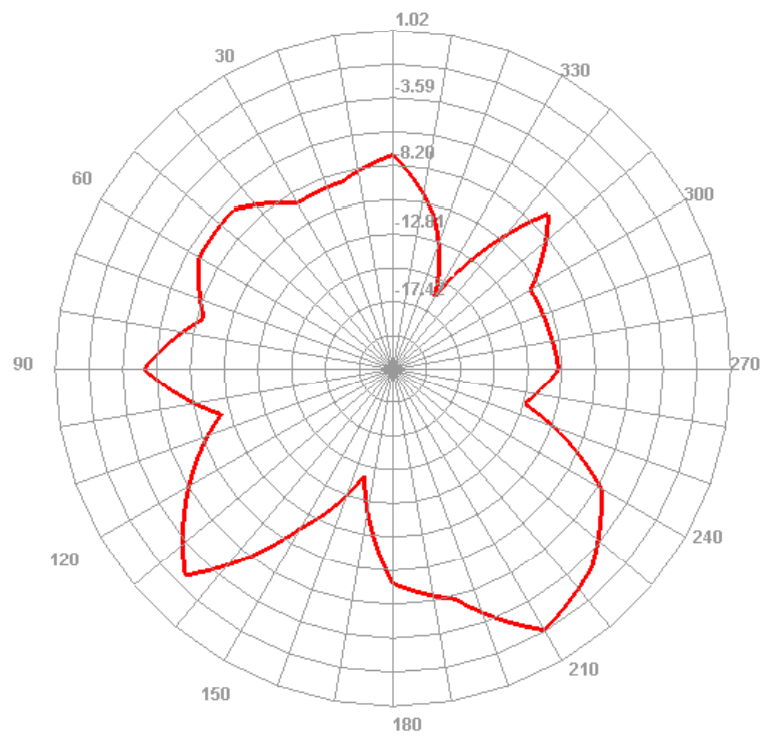
1840.000MHz



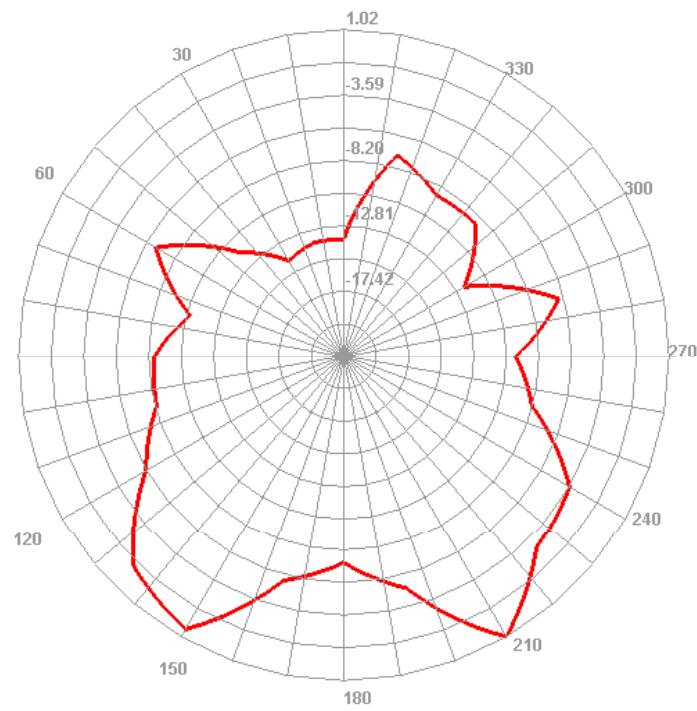
1840.000MHz H



1840.000MHz E1

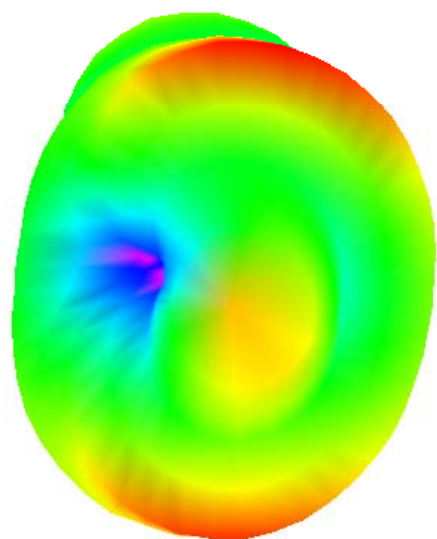


1840.000MHz E2

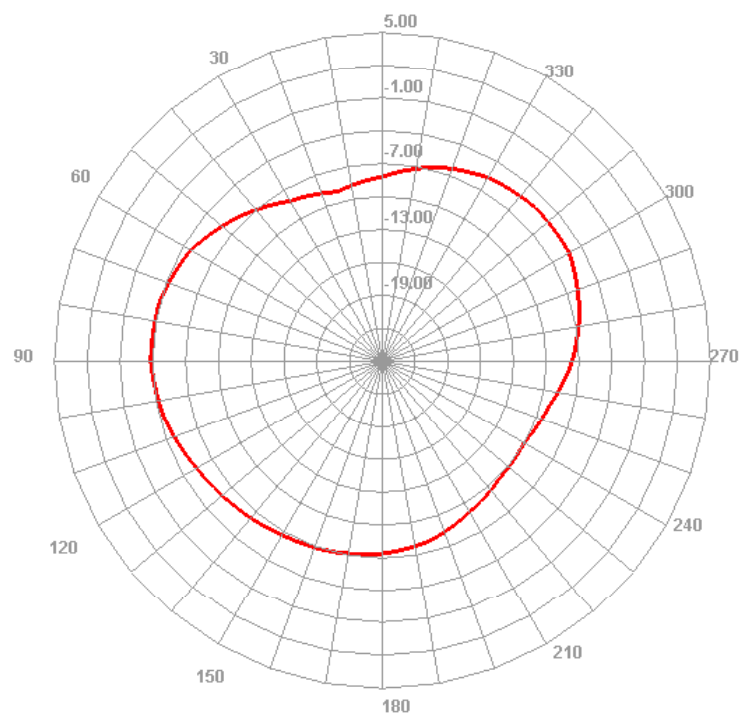


Efficient (W2 1850~1990 MHz)

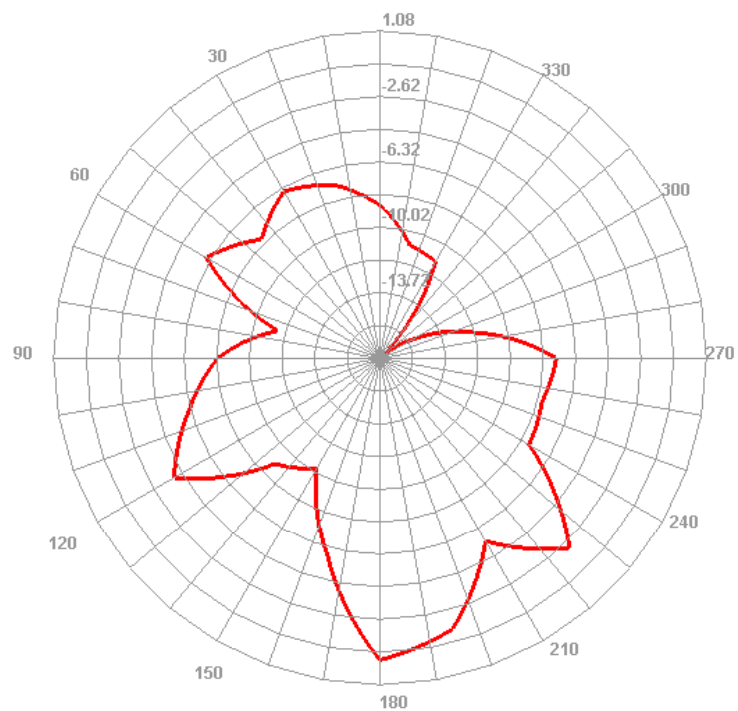
1900.000MHz



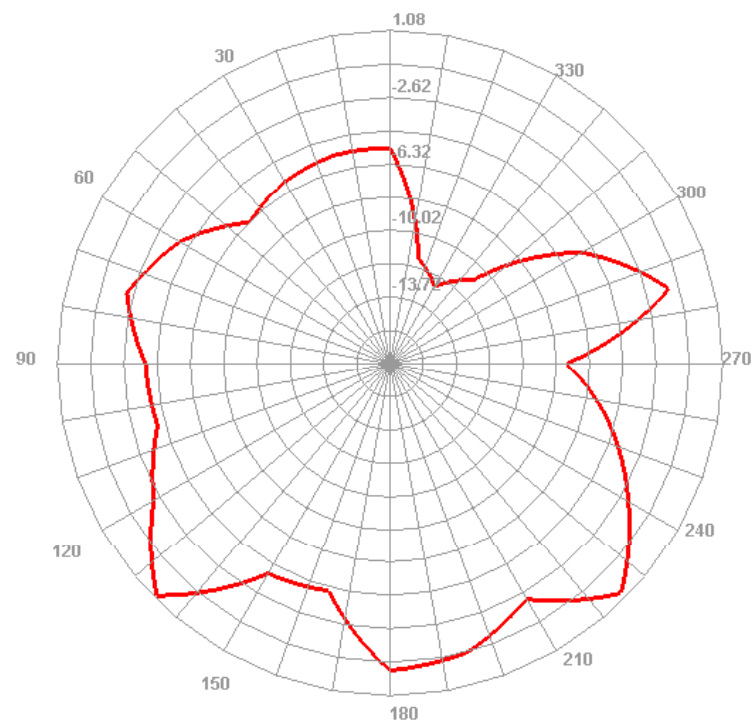
1900.000MHz H



1900.000MHz E1

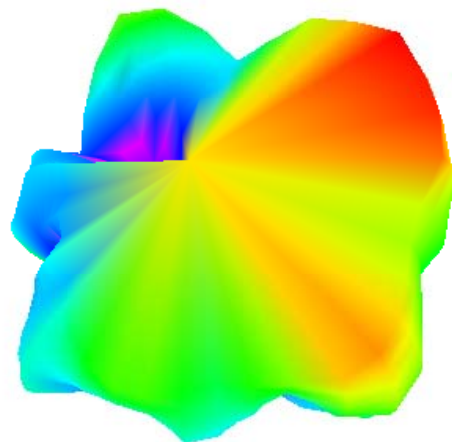


1900.000MHz E2

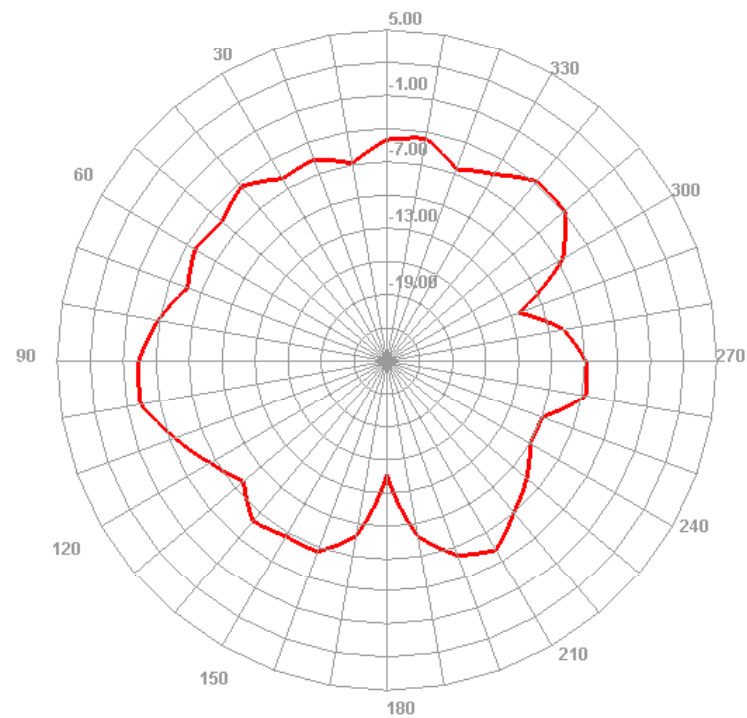


Efficient (2.4GWIFI/BT)

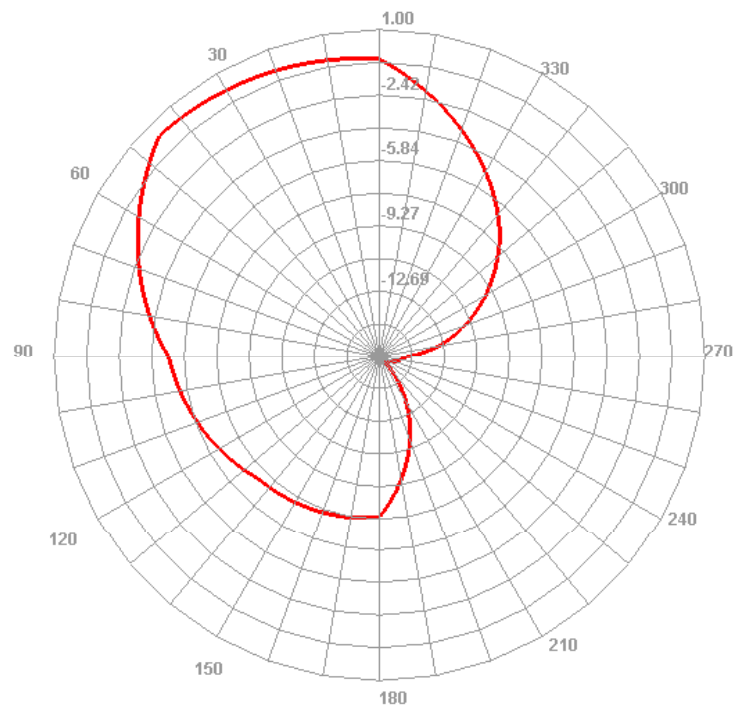
2450.000MHz



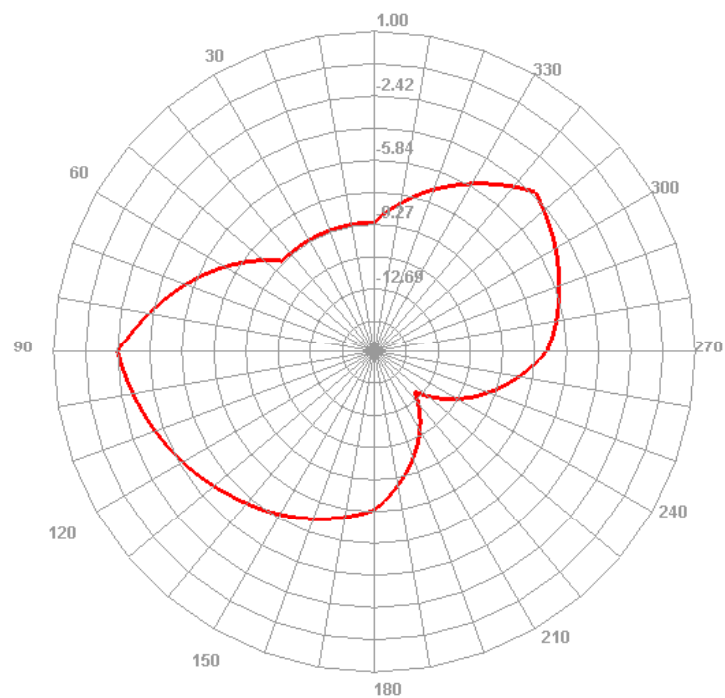
2450.000MHz H



2450.000MHz E1

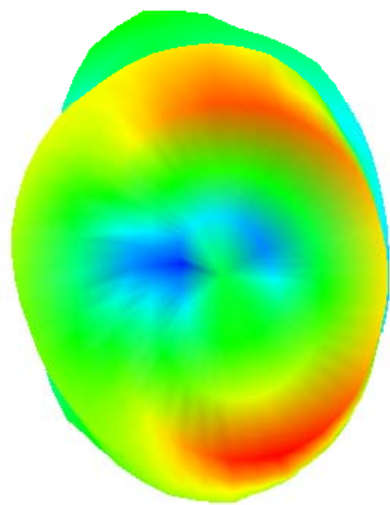


2450.000MHz E2

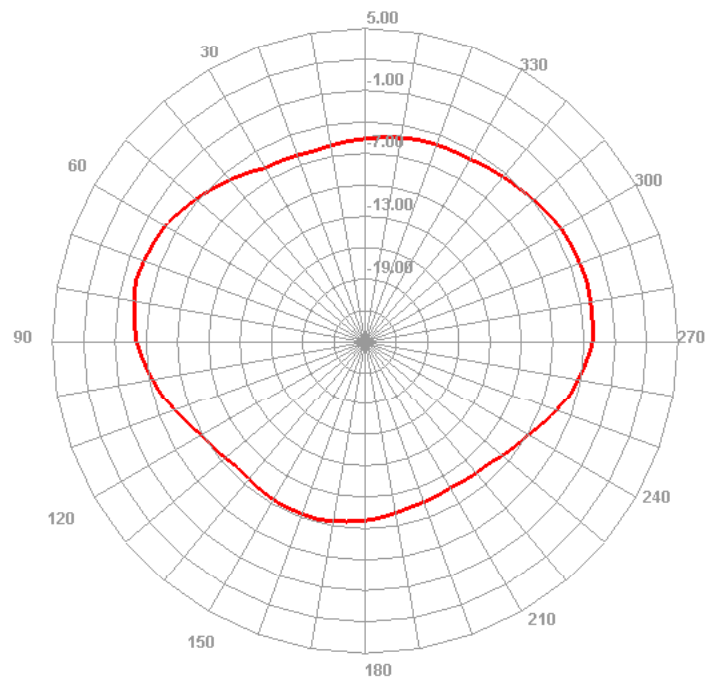


Efficient (5GWIFI 5000~5800MHz)

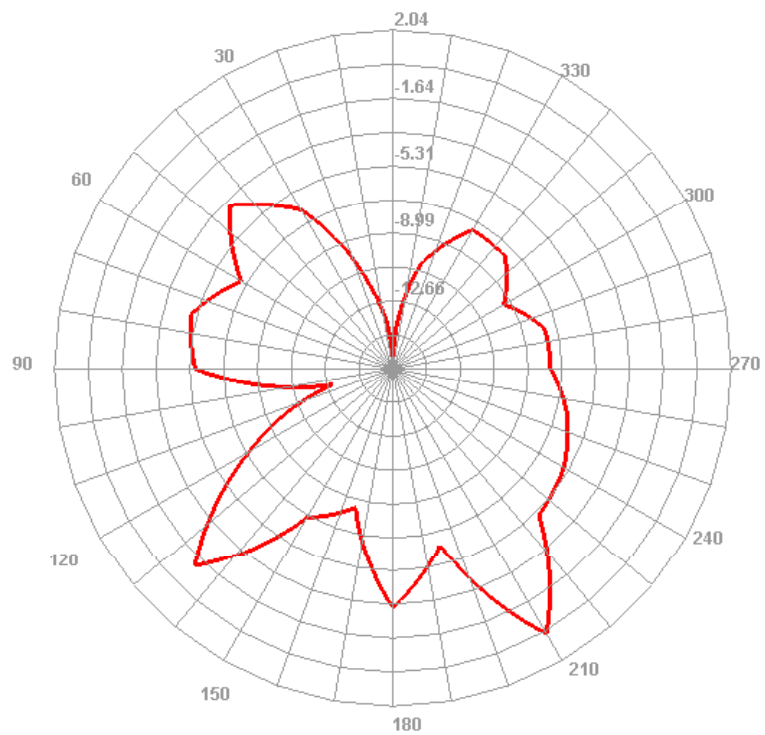
5240.000MHz



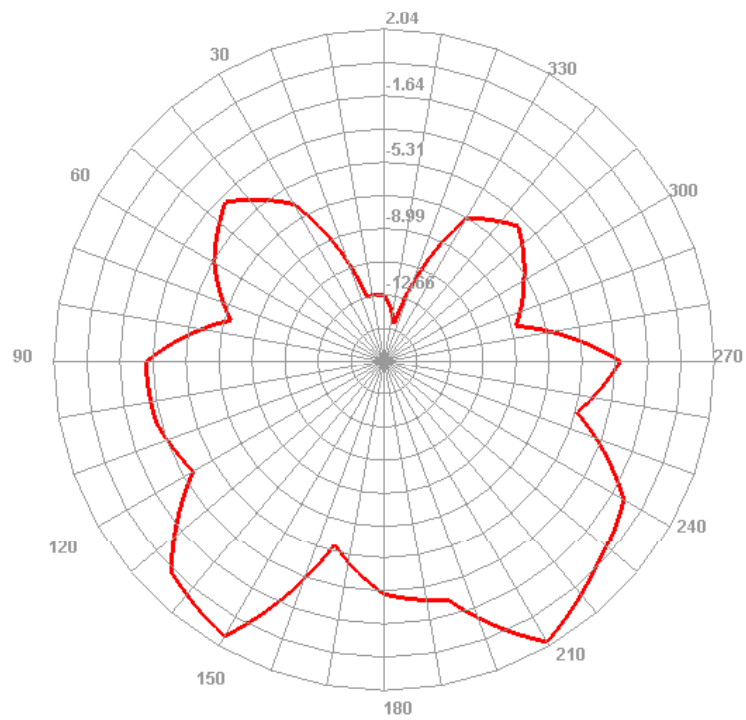
5240.000MHz H



5240.000MHz E1

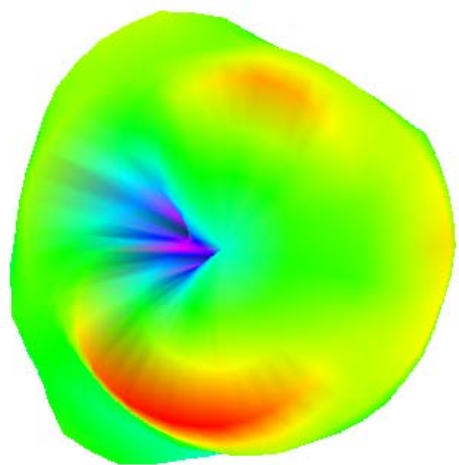


5240.000MHz E2

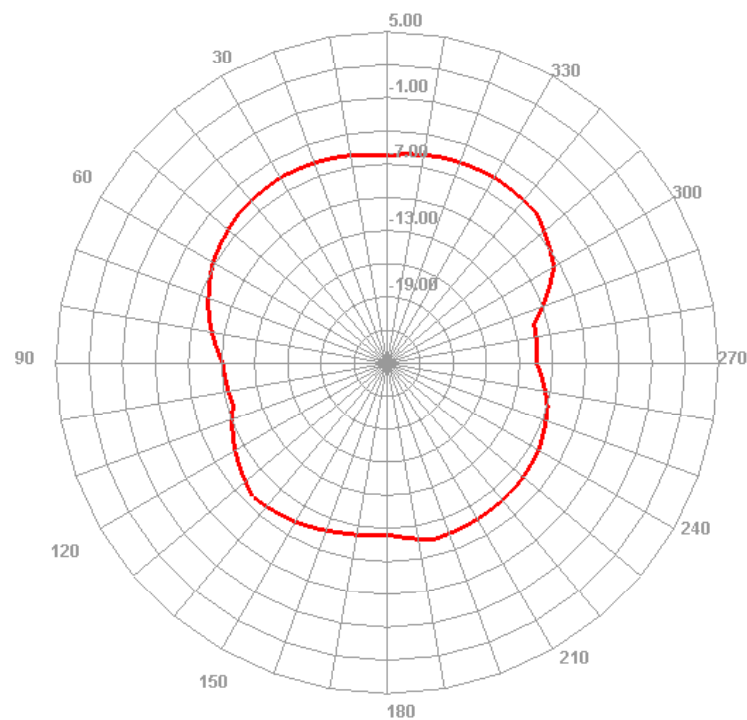


Efficient (GPS 1575.42MHz)

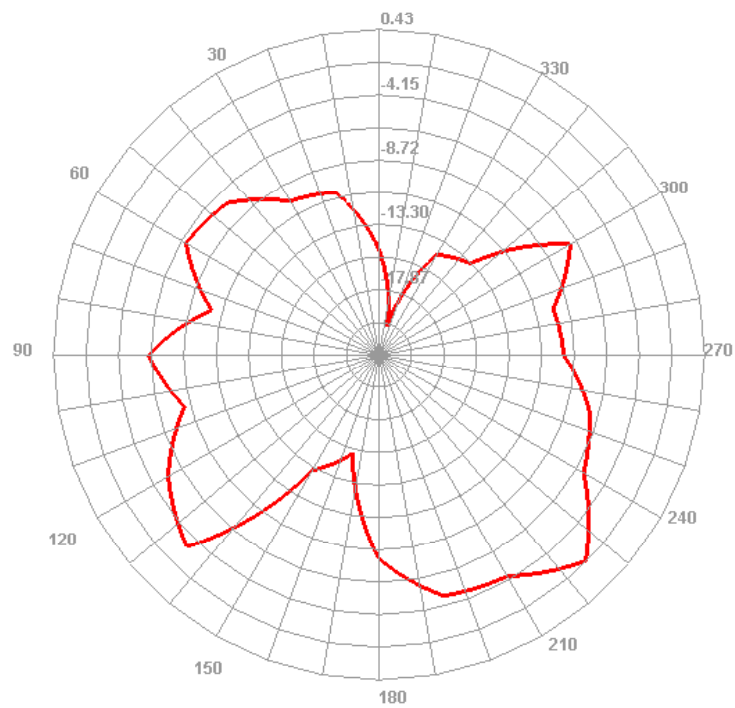
1575.491MHz



1575.491MHz H



1575.491MHz E1



1575.491MHz E2

