



ShenZhen Huaxinwei communication technology
Co.,Ltd.

Antenna test report

Customer Name: Xun Rui

Project Name: M9903B

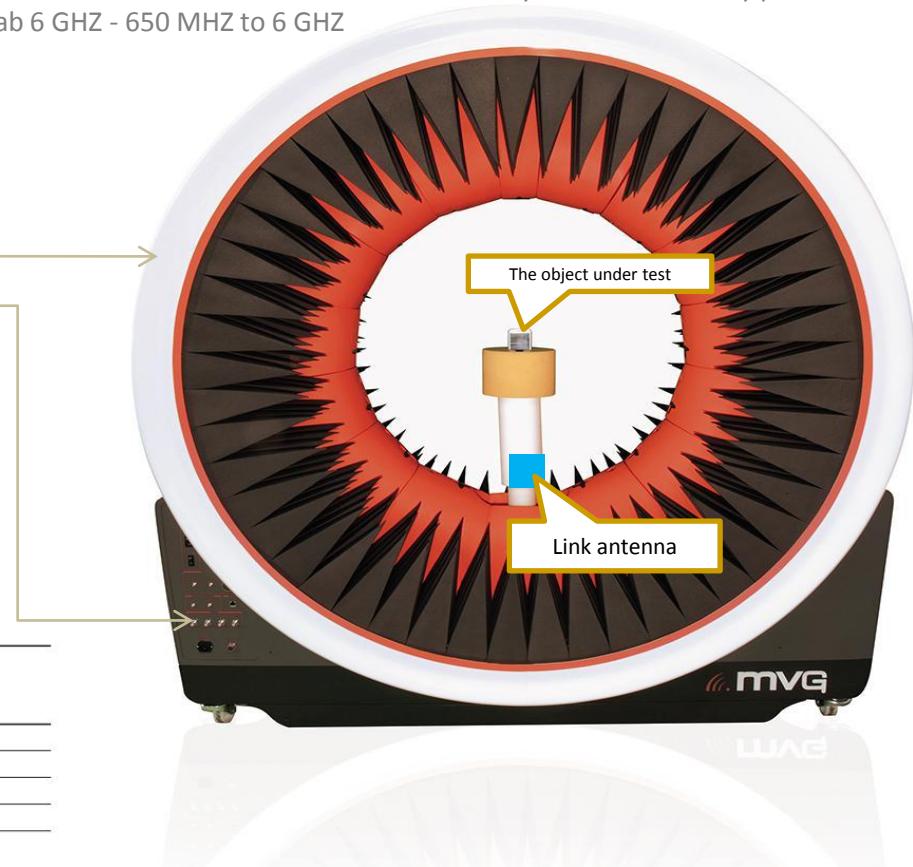
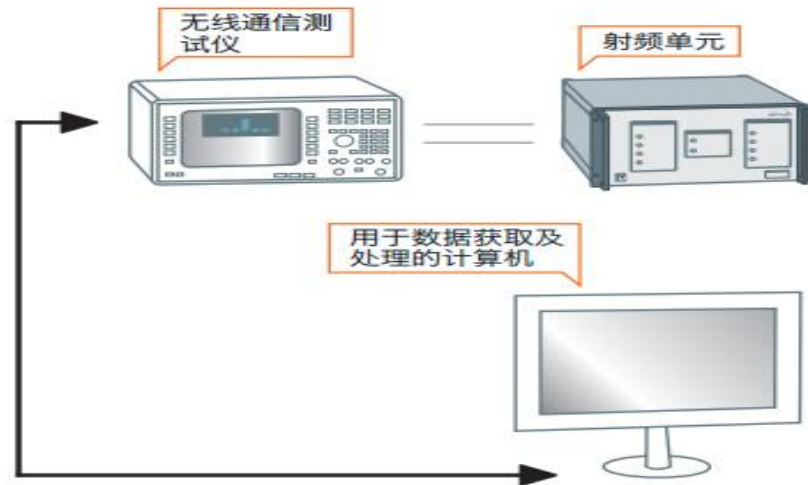
Designer: Li xiongji

Date: 2023/08/25

The customer name		Xun Rui	Project Name	M9903A
NO.	project	Detailed above		
1	spectrum	GSM850/900/1800/1900+WCDMA:W1/8 LTE:B1/B3/B7/B8/B19/B20/B28AB/B40+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		LI xiongji	15347862886	

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

Antenna position

WWAN LB antenna

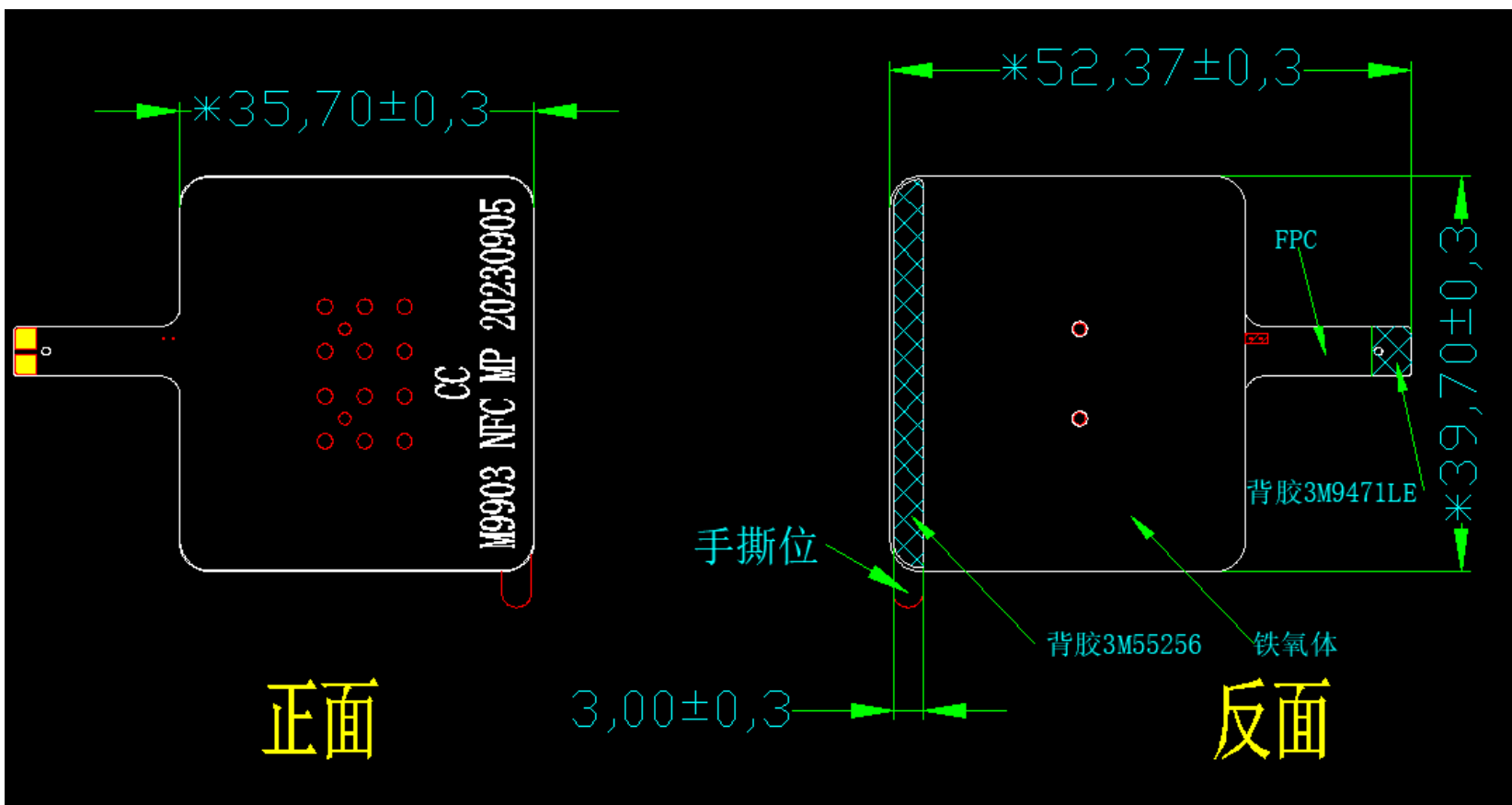


GPS/WIFI/BT antenna



WWAN M&H antenna



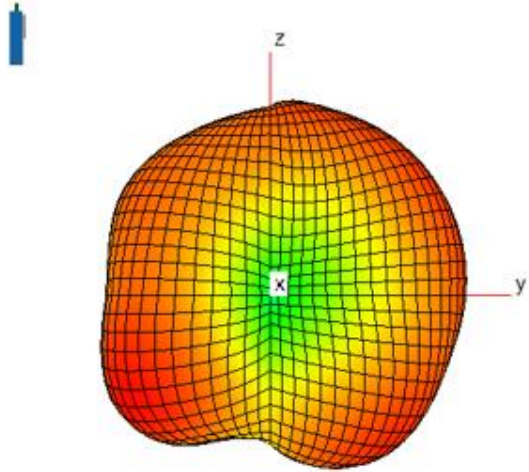


Efficient (2G+3G+4G+WiFi /BT+GPS)

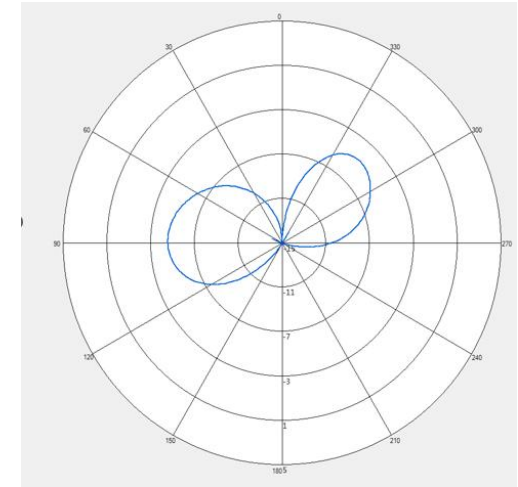
PEAK GAIN			
	Frequency range	Efficiency (%)	Gain(dBi)
GSM850/LTEB5/19/ 20	791~894Mhz	16%	-3.7
GSM 900/W 900/LTE B8	880~960Mhz	16.6%	-3.3
GSM B2/3 LTE B3	1710~2170Mhz	26.5%	-1.4
LTE B28AB	704~804Mhz	16.8%	-4.3
LTE B7	2480~2690Mhz	37.9%	0.8
W2100/LTE B1	1890~2170Mhz	29.2%	-0.5
LTE B40	2300~2400Mhz	21.9%	-0.6
5G-WIFI	5000~5800Mhz	31.7%	-0.7
2.4G-WIFI	2400~2500Mhz	34.4%	1.5
BT	2400~2500Mhz	34.4%	1.5
GPS	1575Mhz	36.8%	1.2

Efficient (GSM 850/LTE B19/20)

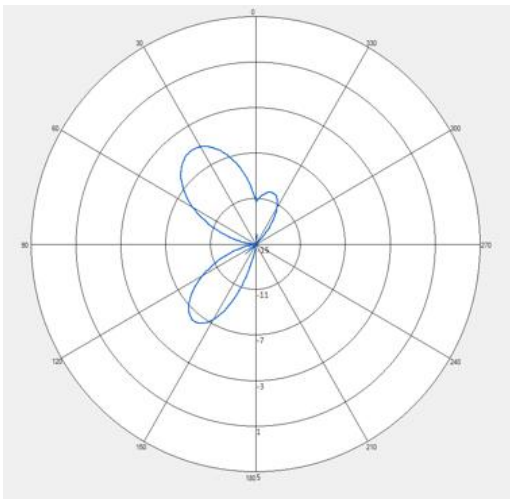
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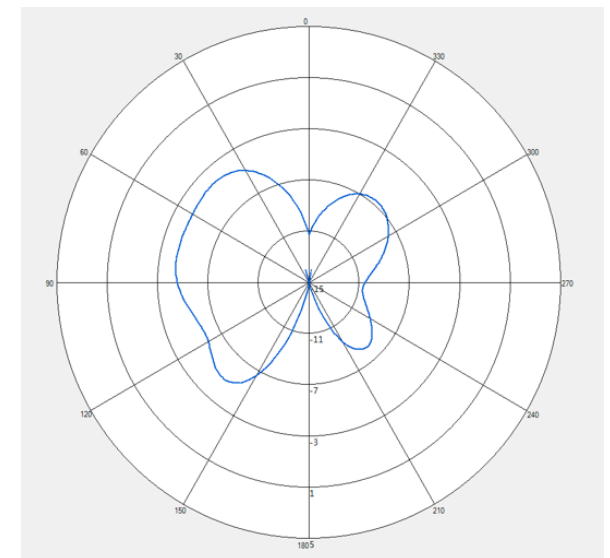
Theta 90



Phi 0

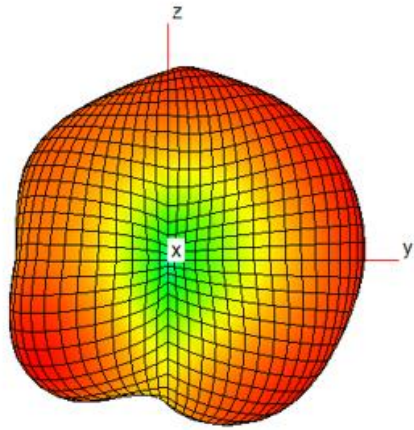


Phi 90

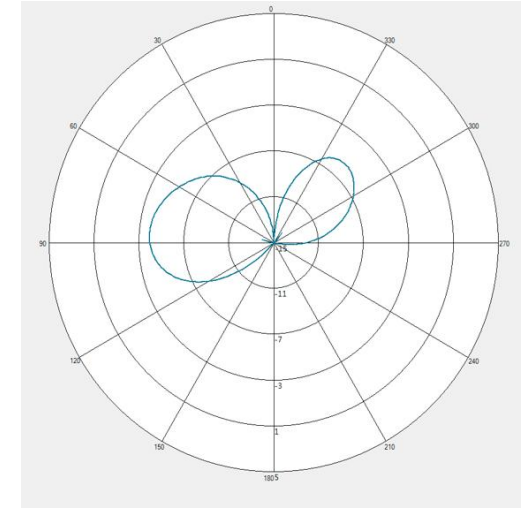


Efficient (GSM 900/W 900/LTE B8)

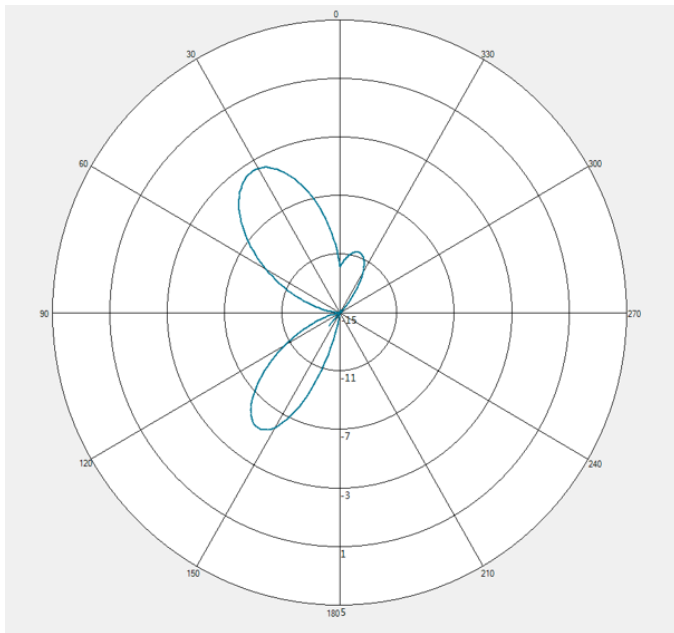
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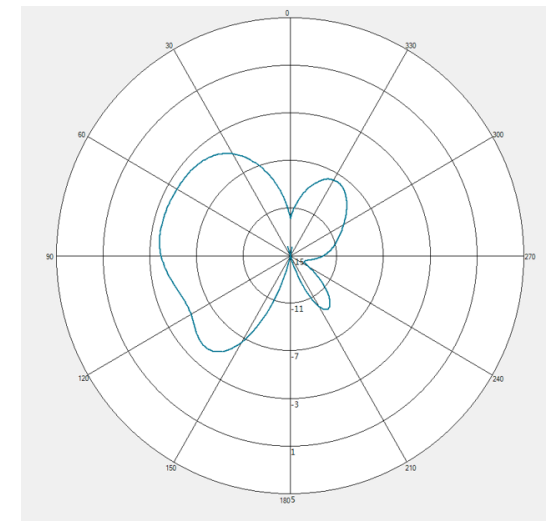
Theta 90



Phi 0

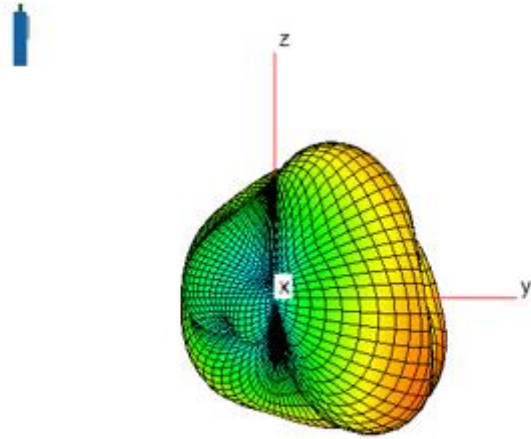


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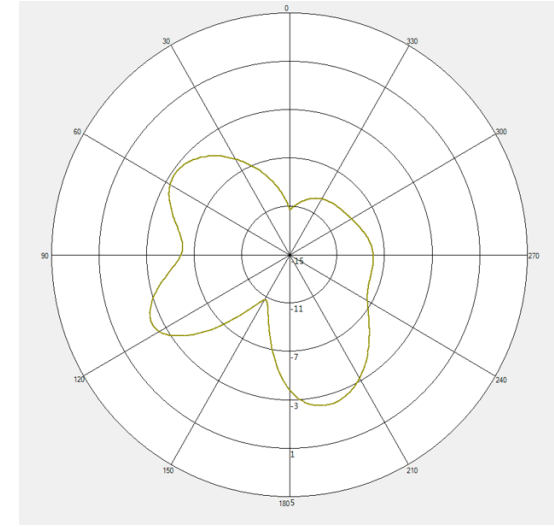


Efficient (GSM B2/3 LTE B3)

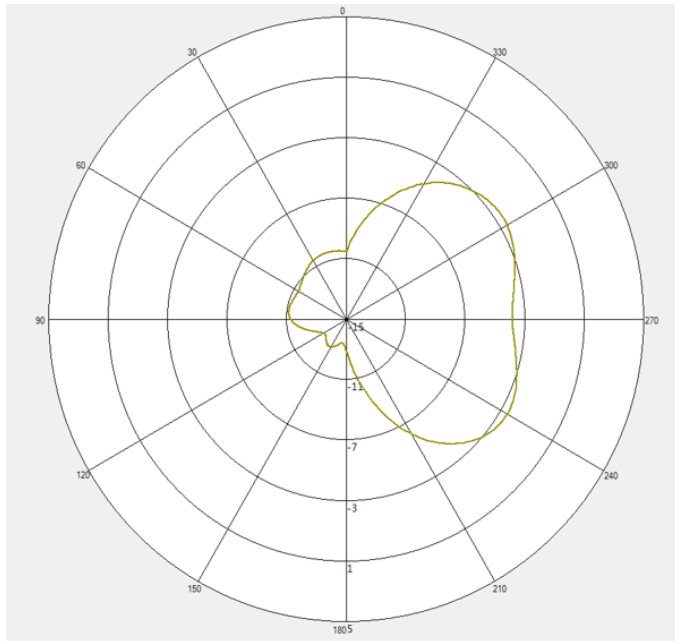
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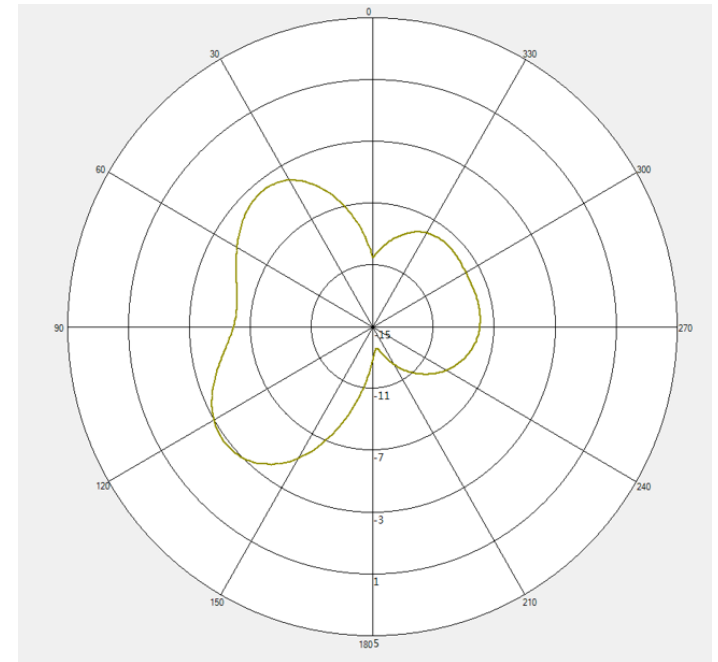
Theta 90



Phi 0

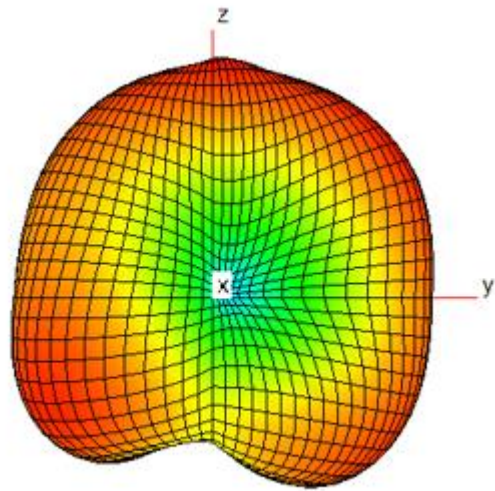


Phi 90

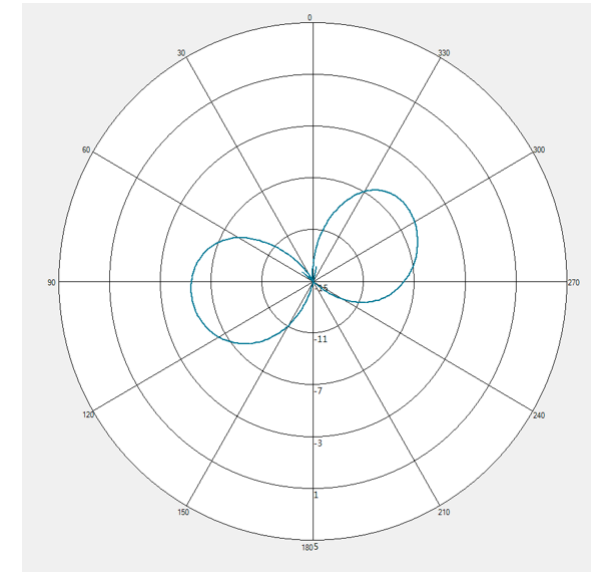


Efficient (LTE B28AB)

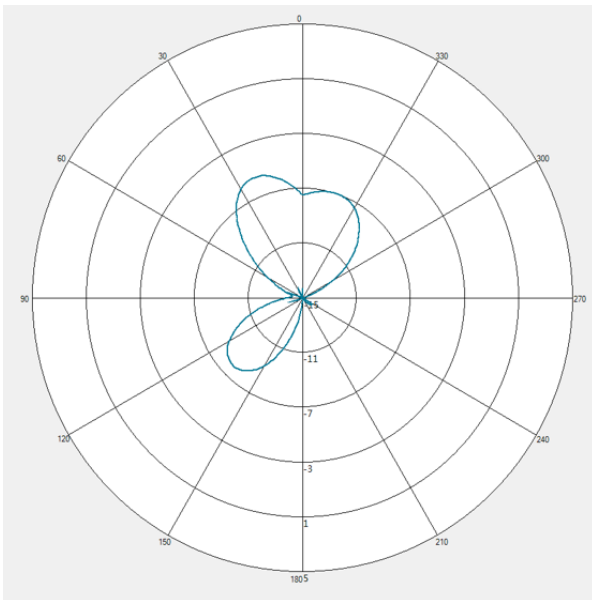
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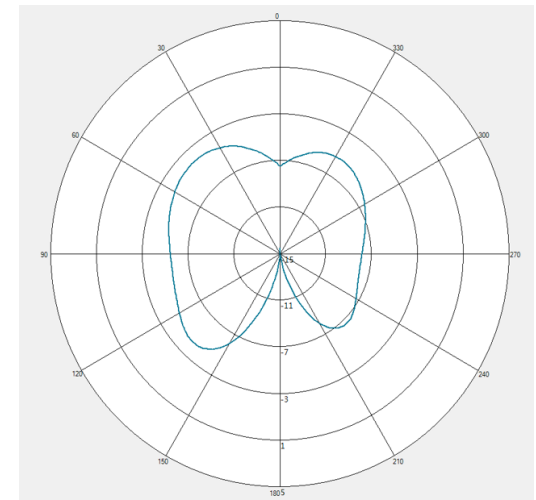
Theta 90



Phi 0

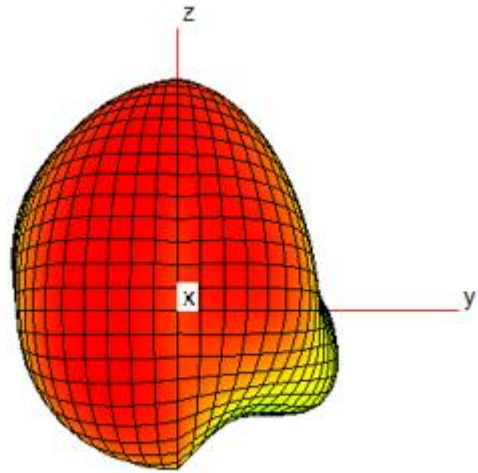


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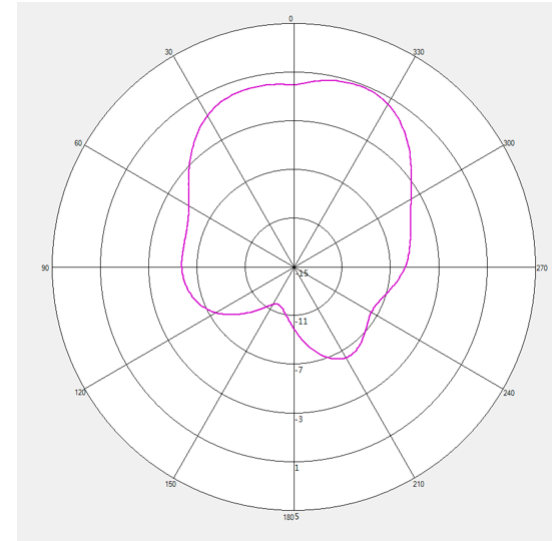


Efficient (LTE B7)

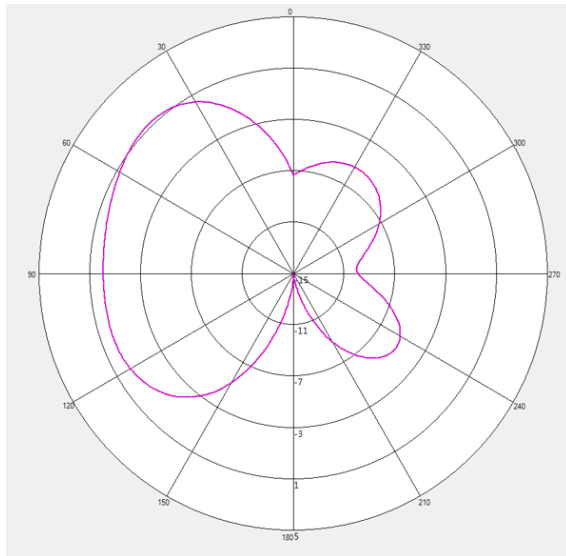
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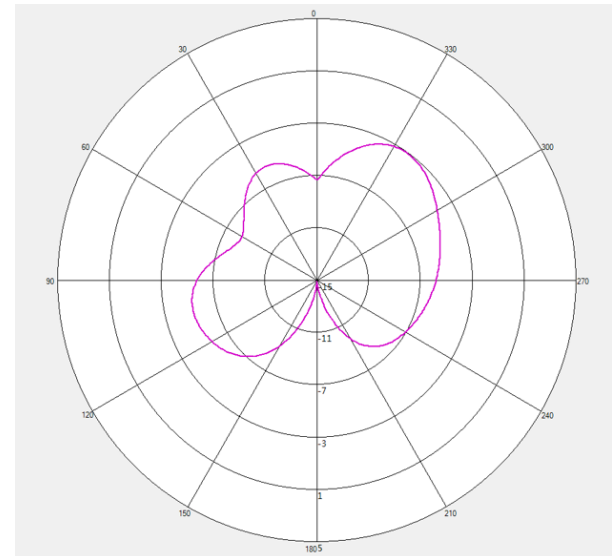
Theta 90



Phi 0

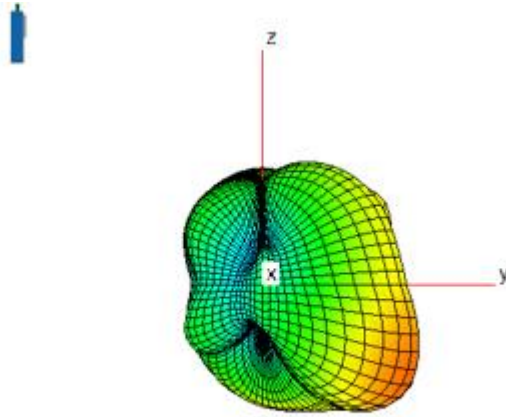


Phi 90

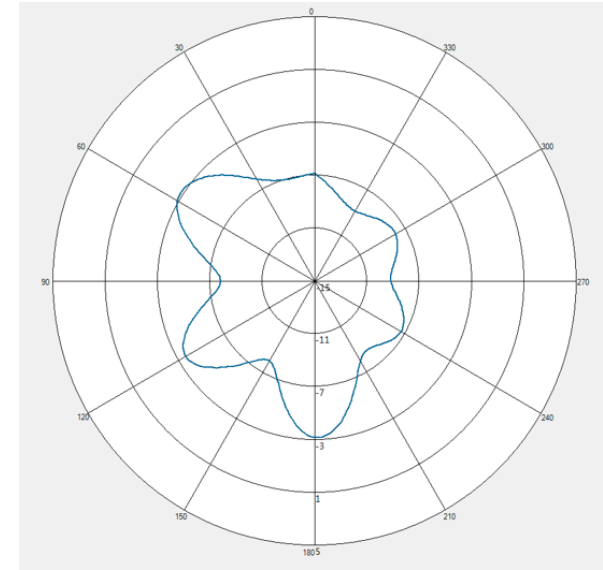


Efficient (W2100/LTE B1)

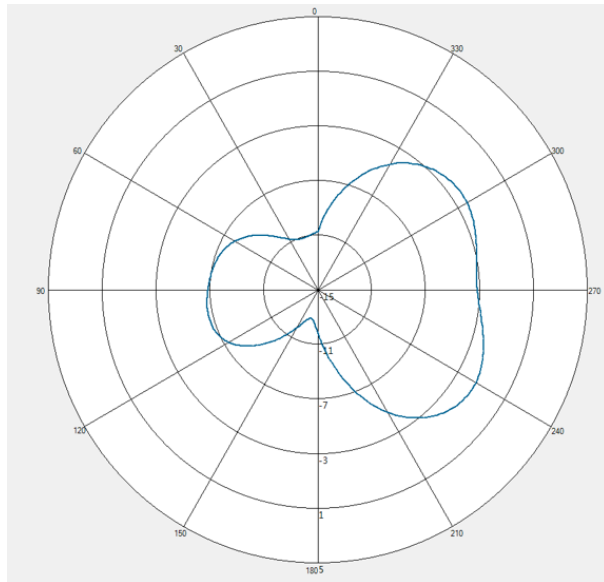
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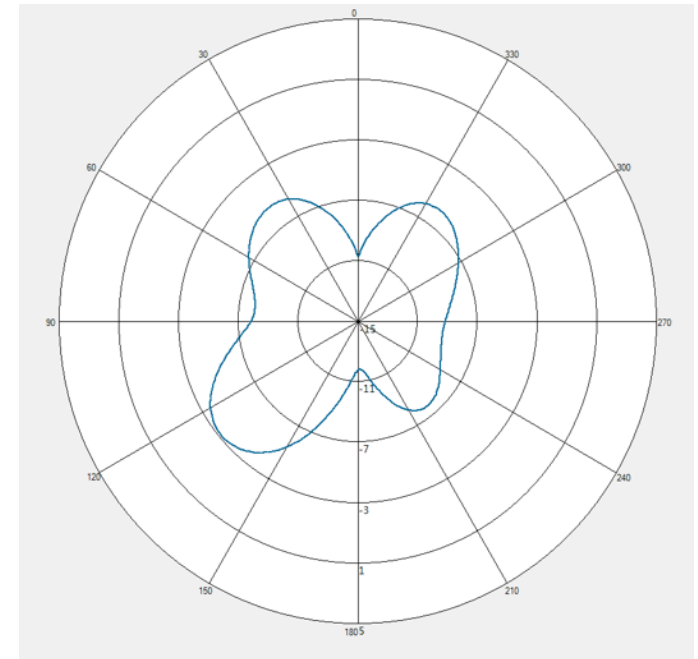
Theta 90



Phi 0

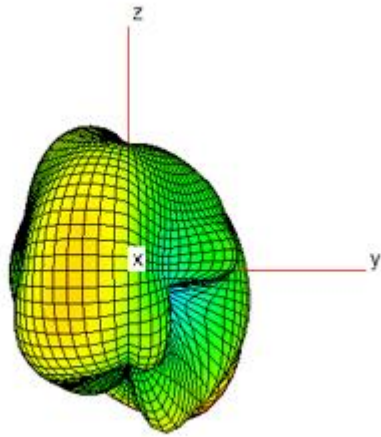


Phi 90

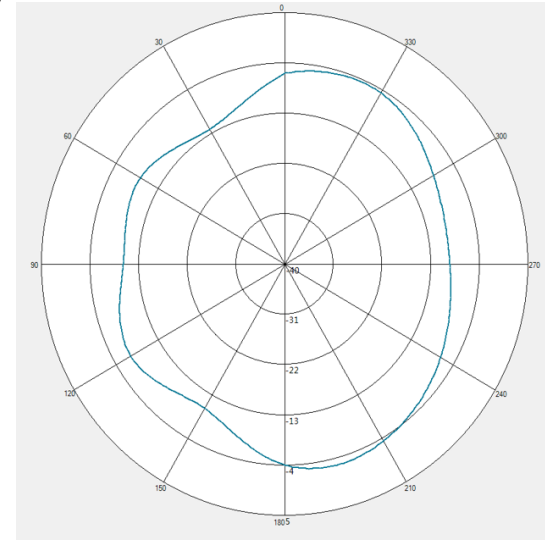


Efficient (LTE B40)

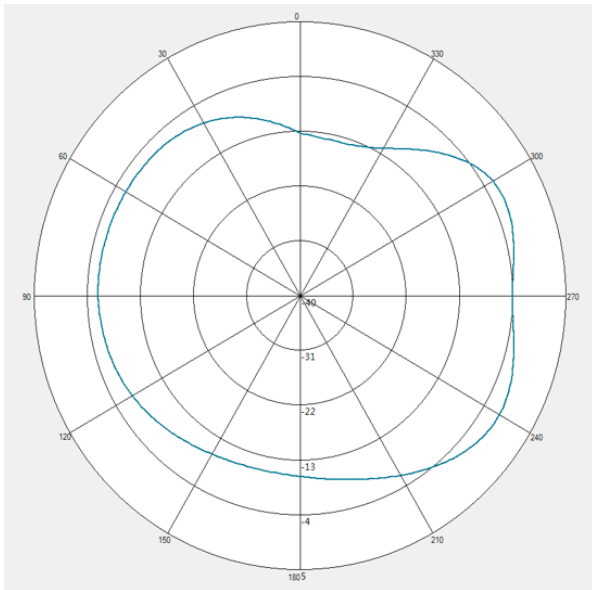
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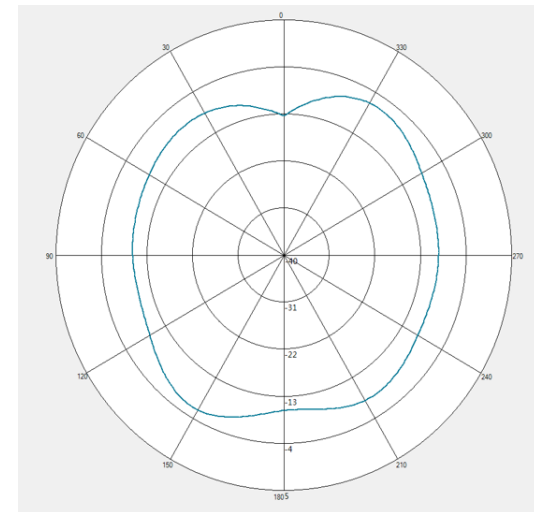
Theta 90



Phi 0

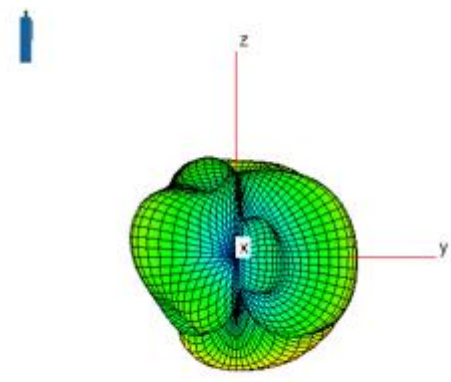


Phi 90

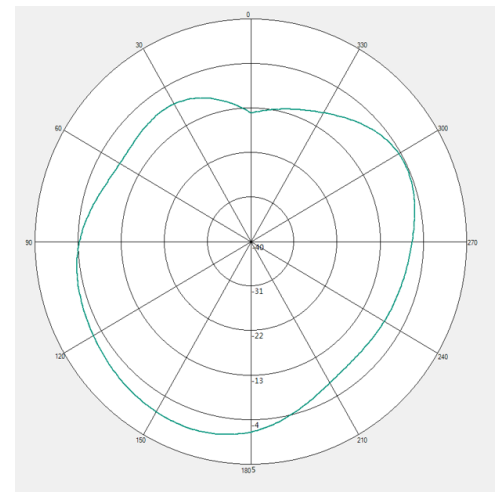


Efficient (2.4GWIFI/BT)

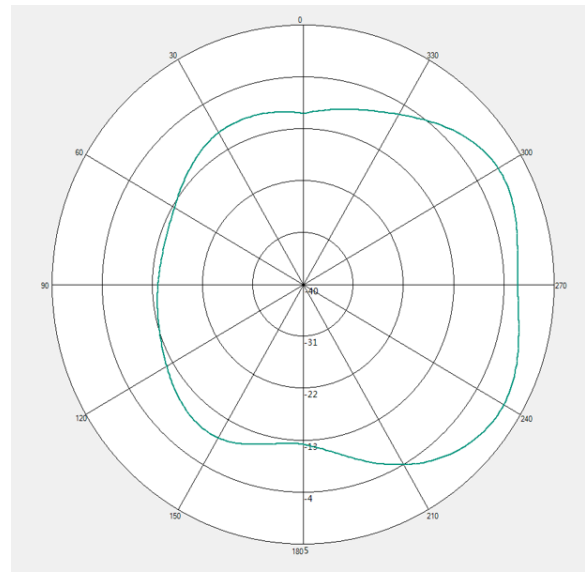
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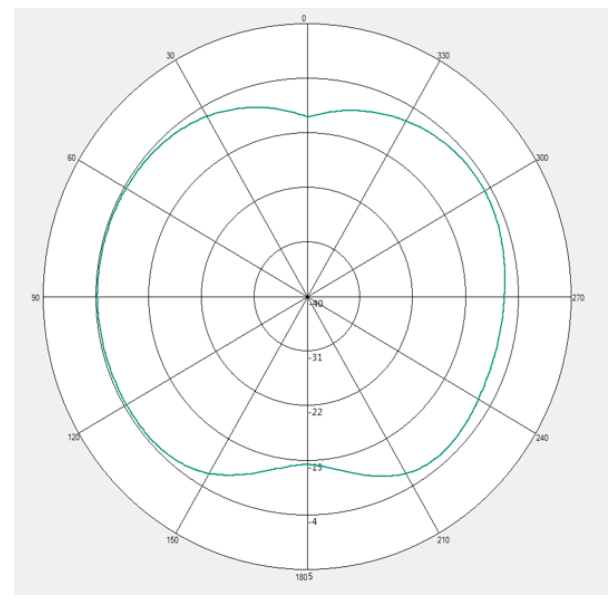
Theta 90



Phi 0

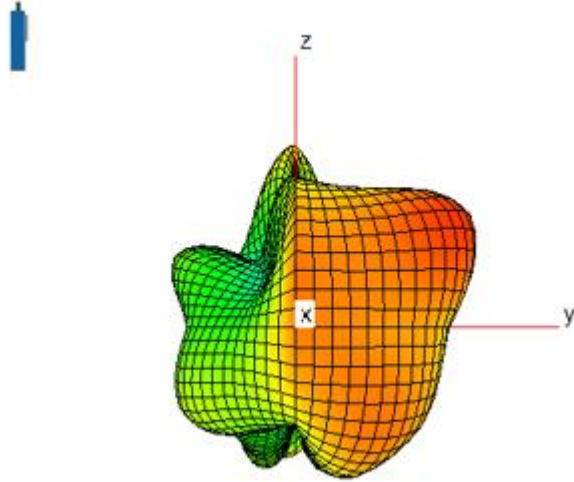


Phi 90

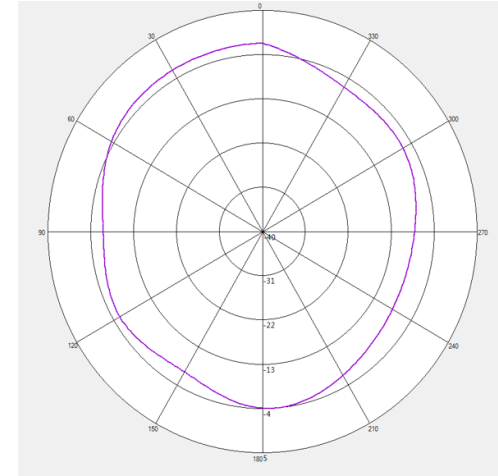


Efficient (5GWIFI 5000~5800MHz)

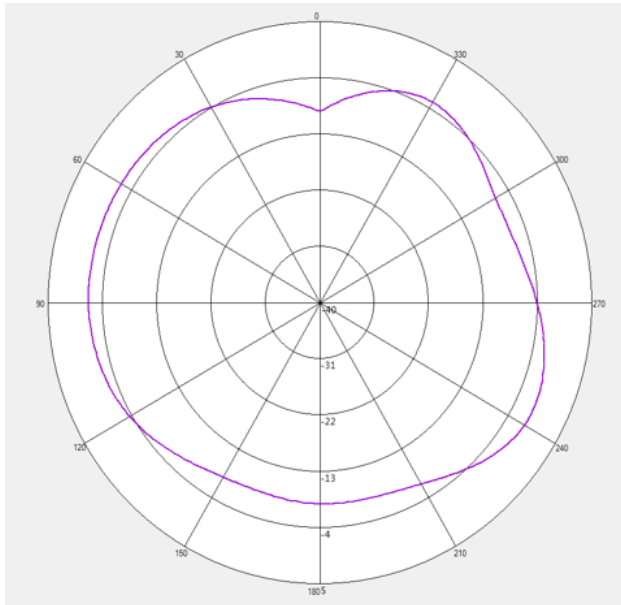
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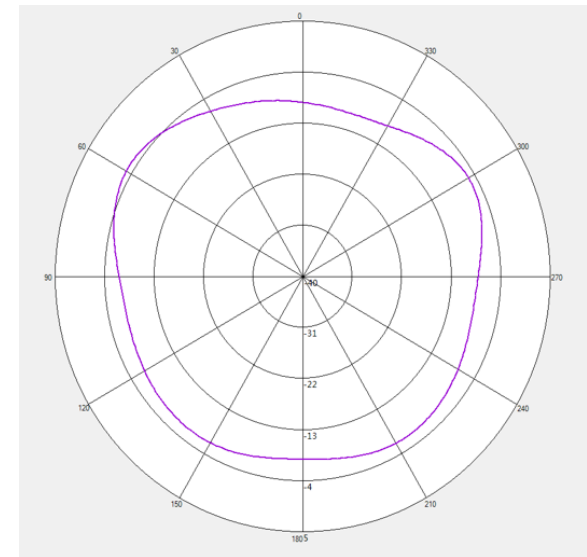
Theta 90



Phi 0

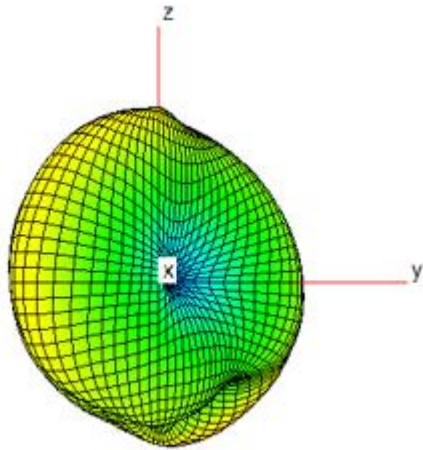


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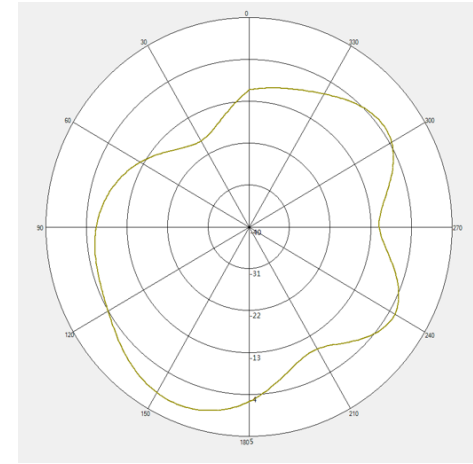


Efficient (GPS 1575.42MHz)

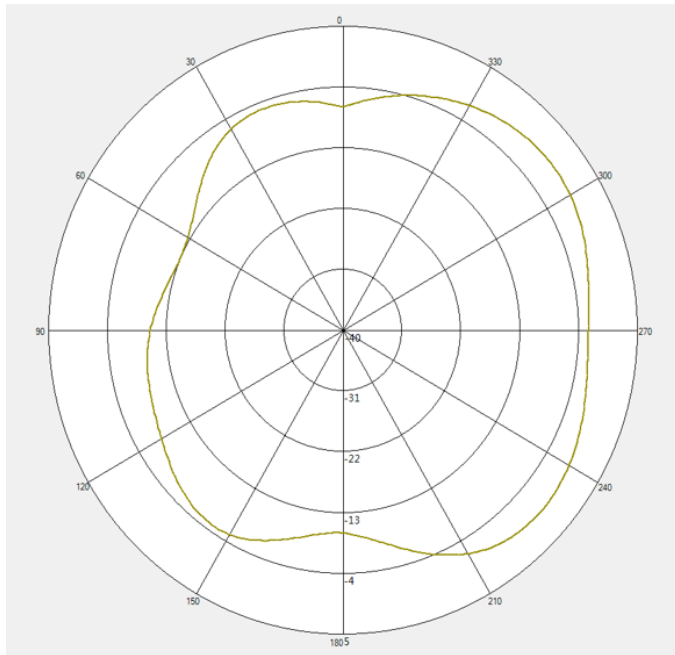
TOTAL



Theta 90



Phi 0



Phi 90

