

Shenzhen Xiangboyi Technology Co. Ltd

Specification

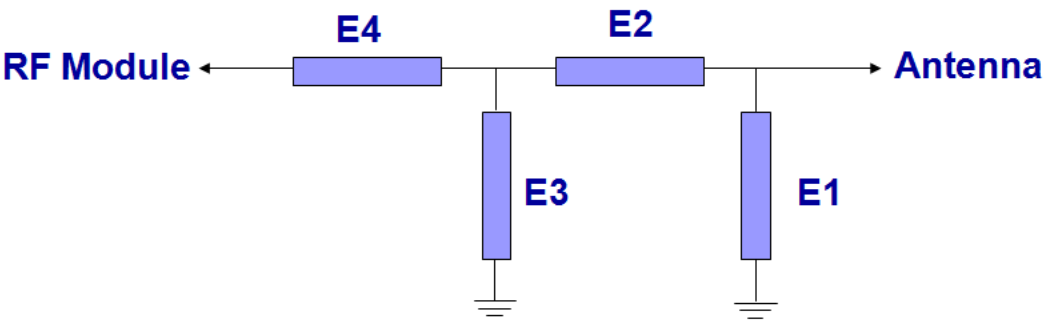
Customer	Shenzhen Harvilon Technology Co., Ltd.
Name	4G antenna
Customer Number	MF302-NA
Model No	XBY240341

Floor 1, Building 2, Haochuang Longhua Industrial Park, No. 95 Yousong Road, Fukang Community, Longhua Street, Longhua District, Shenzhen, China

TEST REPORTS

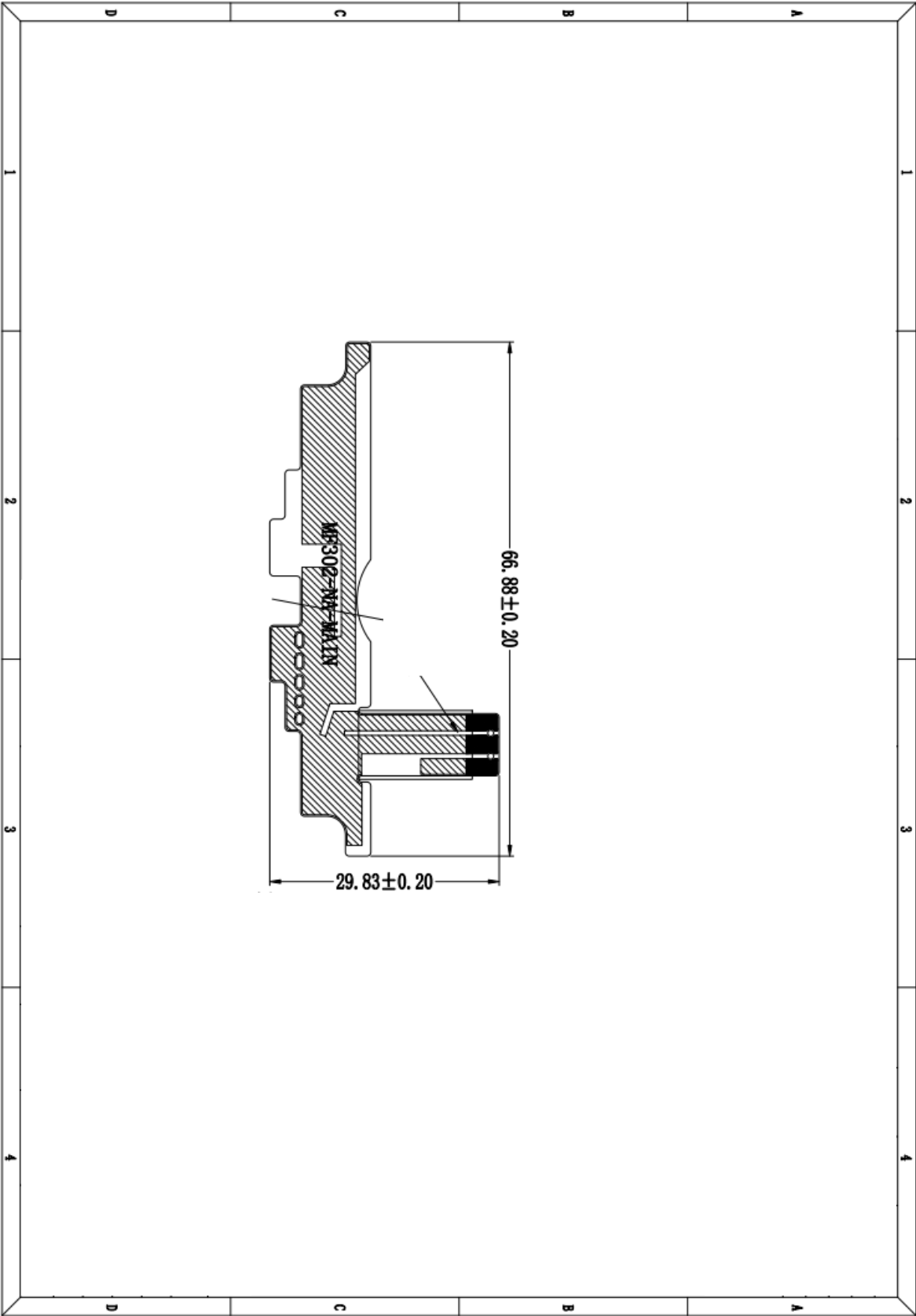
Frequency	4G(700-960Mhz 1710-2690Mhz)
Impedance	50 Ohm Nominal
V.S.W.R	5.94:1 Max
Return Loss	-2.95dB Max
Radiation	Omni-directional
Gain(Peak)	700~960 1.77dBi / 1710~2690 3.44dBi
Polarization	Linear,Vertical
Admitted Power	1W
Connector	/
Physical Properties	
Antenna Material	FPC
Cable Type	/
Operating Temp.	-10-+60℃
Storage Temp.	-10-+70℃
Cable Color	/

Matching Circuits



Element	Value	Vender
E1(0402)		
E2(0402)		
E3(0402)		
E4(0402)		

Drawings



Test Data

LTE BAND	LTE-B2 (10M)			LTE-B3 (10M)		
Channel	L	M	H	L	M	H
TRP (dBm)	20.75	20.7	18.85	18.51	18.47	19.34
TIS (dBm)			-92.71			-96.89

LTE BAND	LTE-B4 (10M)			LTE-B5 (10M)		
Channel	L	M	H	L	M	H
TRP (dBm)	18.05	20.08	19.93	19.21	18.62	18.2
TIS (dBm)			-95.37			-91.01

LTE BAND	LTE-B7 (10M)			LTE-B8 (10M)		
Channel	L	M	H	L	M	H
TRP (dBm)	17.71	19.03	18.6	19.3	19.11	17.32
TIS (dBm)			-93.09			-90.86

LTE BAND	LTE-B12 (10M)			LTE-B17 (10M)		
Channel	L	M	H	L	M	H
TRP (dBm)	17.82	18.46	18.24	17.25	18.44	18.52
TIS (dBm)			-90.1			-90.25

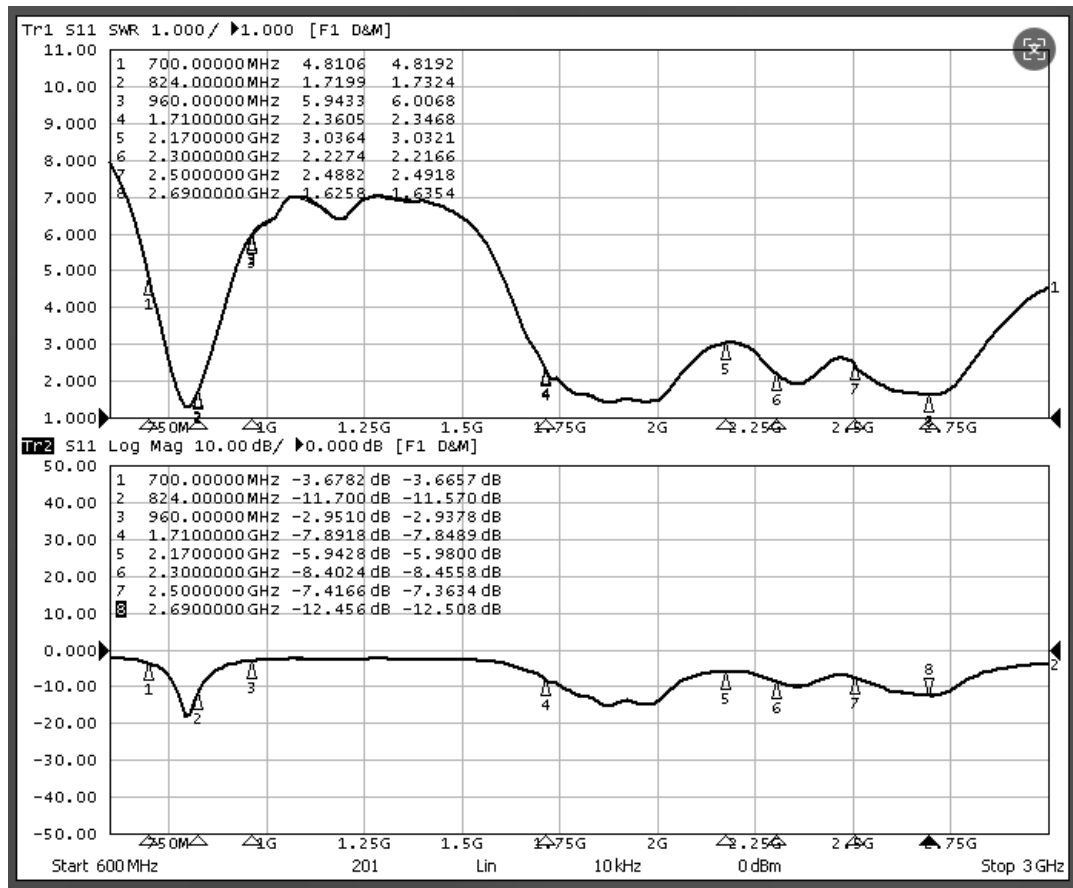
LTE BAND	LTE-B20 (10M)			LTE-B26 (10M)		
Channel	L	M	H	L	M	H
TRP (dBm)	18.53	18.59	19.21	19.08	18.42	17.99
TIS (dBm)			-91.11			-91.6

LTE BAND	LTE-B66 (10M)					
Channel	L	M	H			
TRP (dBm)	18.53	20.35	19.65			
TIS (dBm)			-96.77			

LTE BAND	LTE-B38 (20M)			LTE-B41 (20M)		
Channel	L	M	H	L	M	H
TRP (dBm)	17.84	18.45	19.11	18.41	18.87	18.62
TIS (dBm)			-90.41			-91.29

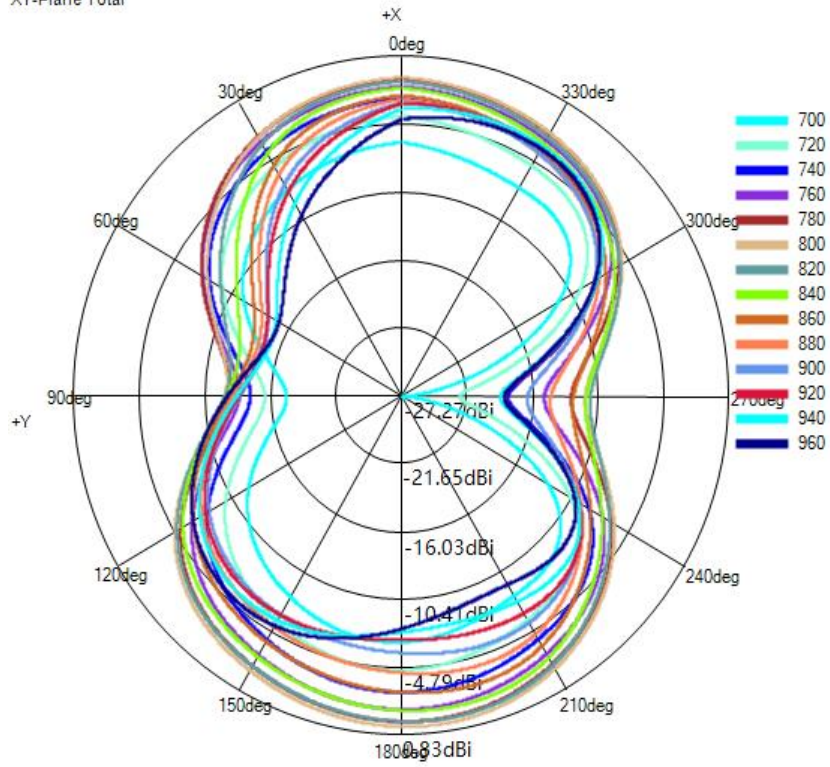
WCDMA BAND	WCDMA-B2			WCDMA-B4		
Channel	L	M	H	L	M	H
TRP (dBm)	18.29	18.86	19.47	18.42	19.21	19.73
TIS (dBm)			-104.52			-104.41

WCDMA BAND	WCDMA-B5			WCDMA-B8		
Channel	L	M	H	L	M	H
TRP (dBm)	17.69	18.43	18.61	18.74	18.13	17.68
TIS (dBm)			-103.79			-103.51

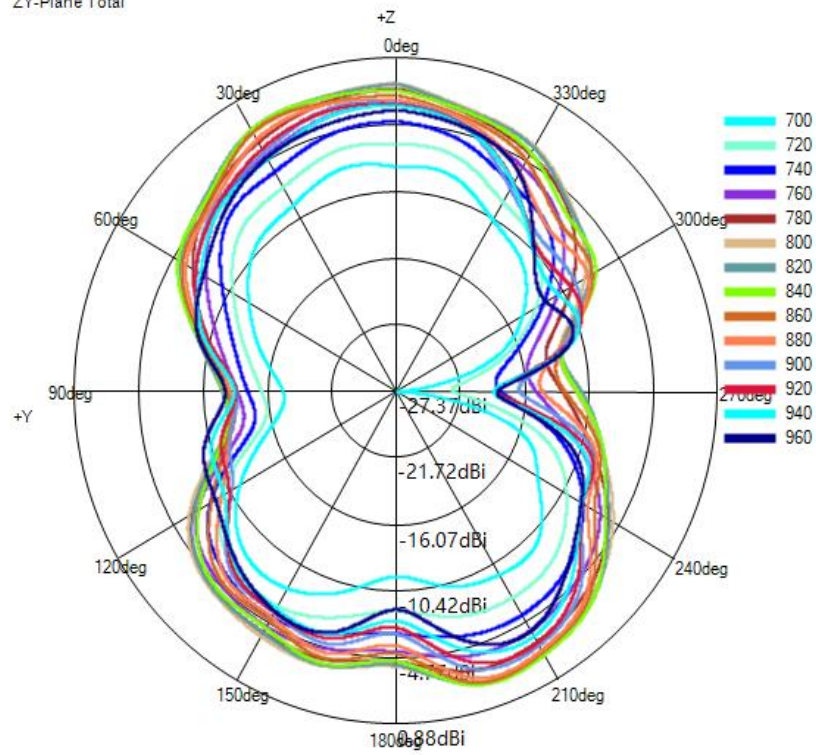


Freq (MHz)	Gain (dBi)	Efficiency (%)		Freq (MHz)	Gain (dBi)	Efficiency (%)
700	-2.25	20.80		1900	-0.13	37.90
720	-1.87	23.69		1950	1.41	44.89
740	-1.37	27.33		2000	3.44	50.32
760	-0.16	36.26		2050	2.59	48.23
780	1.06	45.24		2100	2.22	45.86
800	1.67	50.88		2150	1.62	43.41
820	1.77	50.04		2200	0.49	42.08
840	1.66	47.56		2250	1.09	45.88
860	1.11	41.63		2300	0.82	46.95
880	0.56	36.50		2350	0.81	46.67
900	0.33	30.92		2400	0.96	24.84
920	0.19	29.38		2450	0.52	30.17
940	-0.15	26.62		2500	0.23	25.30
960	-0.83	24.52		2550	1.08	38.49
1700	0.19	37.48		2600	2.32	41.30
1750	0.59	39.61		2650	2.07	40.94
1800	1.22	42.69		2700	2.19	47.49
1850	0.62	38.44		2750	1.84	43.57

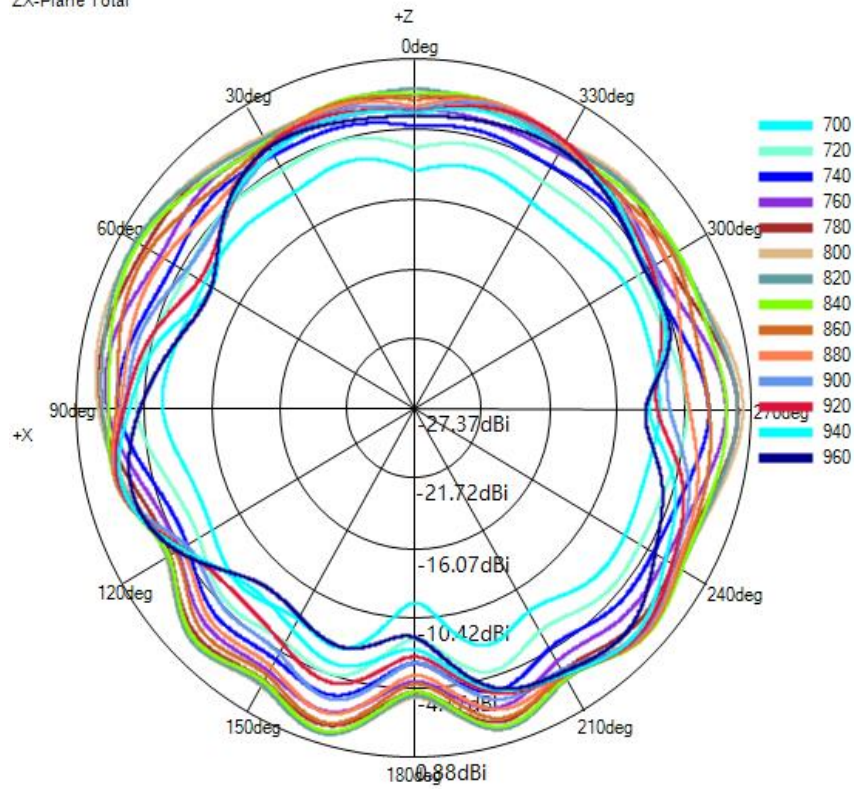
XY-Plane Total



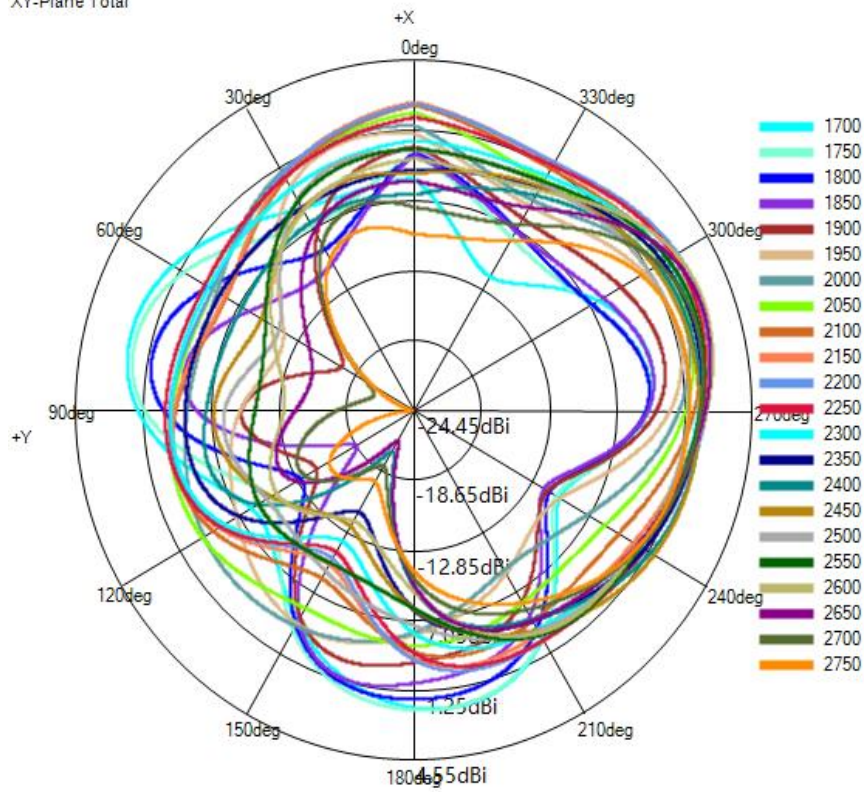
ZY-Plane Total



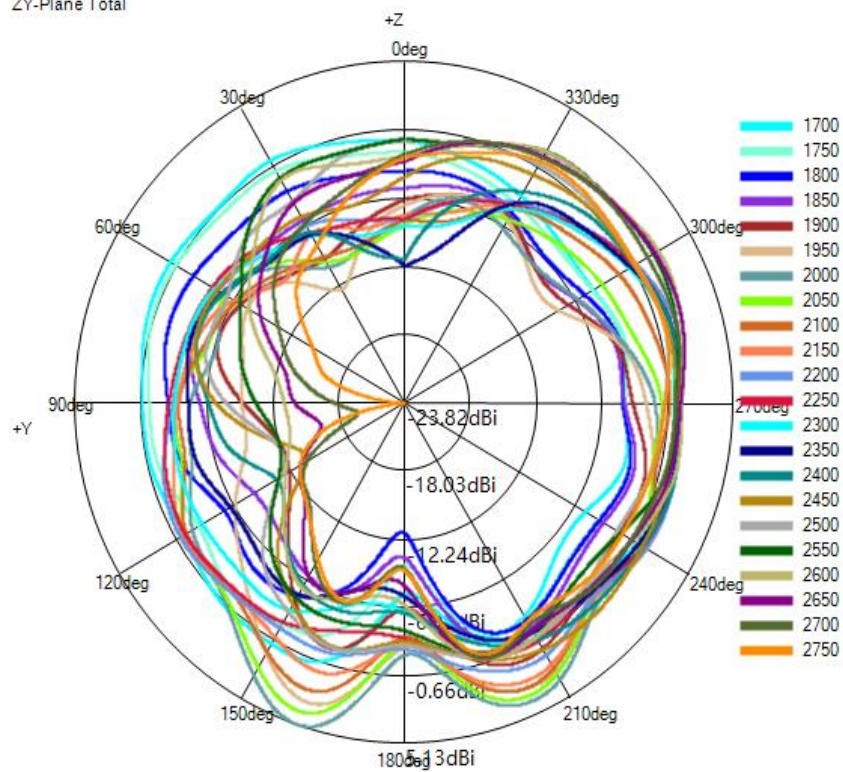
ZX-Plane Total



XY-Plane Total



ZY-Plane Total



ZX-Plane Total

