

ShenZhen Powerful Photoelectron Co., Ltd

Design Specifications	Typical	Units
天线形式 Antenna Type	FPCB antenna	
工作频率 (working Frequency)	2400-2500 5000-6000	MHZ
增益(Gain)	1.45dBi@2400-2500MHz 2.06dBi@5000-6000MHz	dBi
天线效率 (Antenna efficiency)	35~85	%
电压驻波比 (VSWR)	<1.8	
极化方式 (Ploriaztion)	V/H	
辐射方向 (Radiation pattern)	全向	
馈电阻抗 (impedance)	50	ohm
功率容量 (Power handling)	33	dbm
天线接口 (Interface)	一代端子	TRS
天线尺寸 (Overal dimensions)	180	mm
重量 (Weight)	无要求	
工作温度 (Operatin Temp)	-30-80	℃
储存温度 (Storing Temp)	-30-80	℃

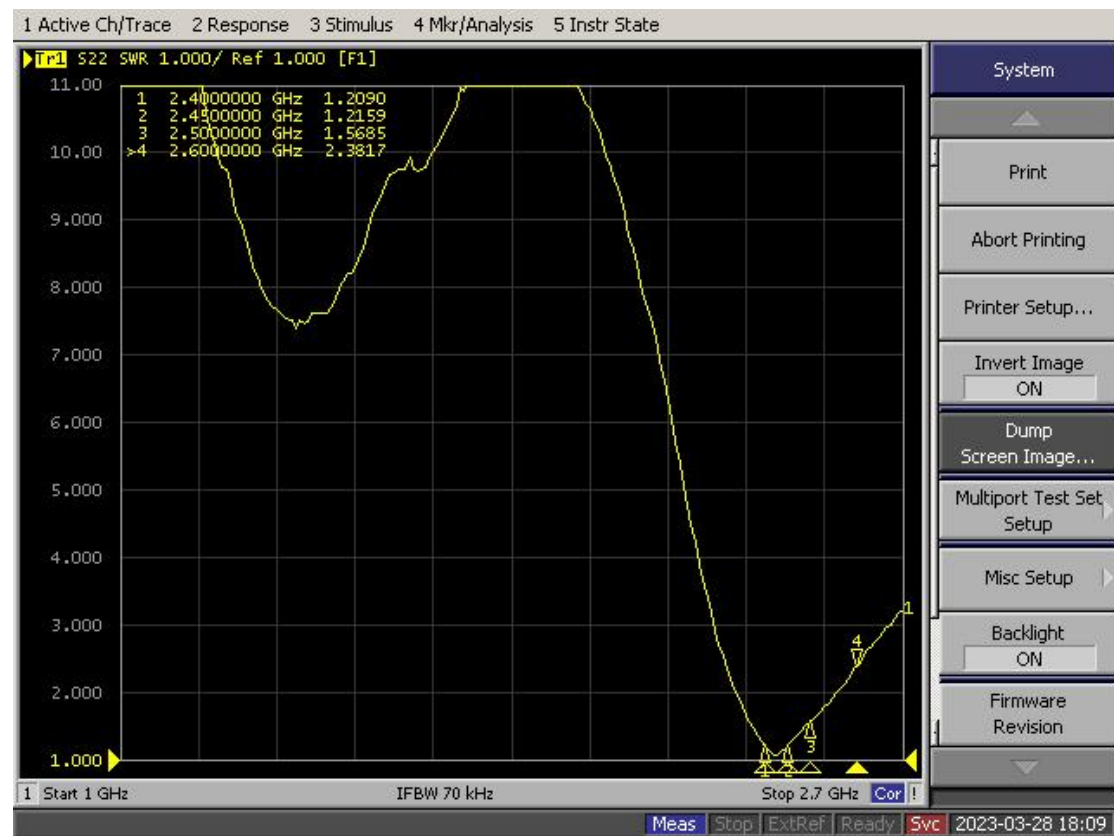
一、 product physical drawings



Manufacturer: shenzhen Rui long Micro Technology CO., Ltd.

Address: Room 1001, Hongyu Business Building, Gushu Second Road, West Town, Baoan District, Shenzhen City, Guangdong

二、VSWR /Return Loss /Smith Chart

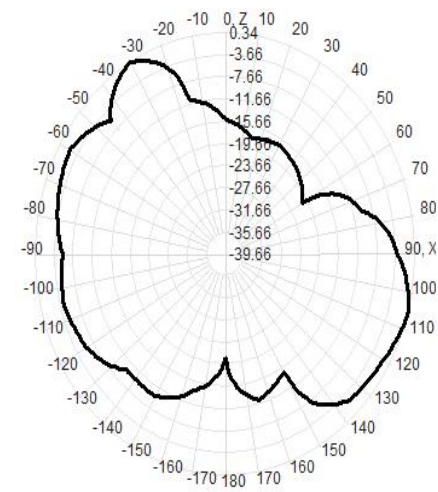
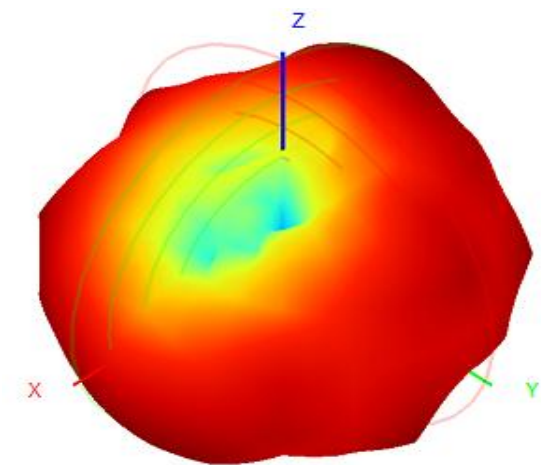


三、Antenna Gain

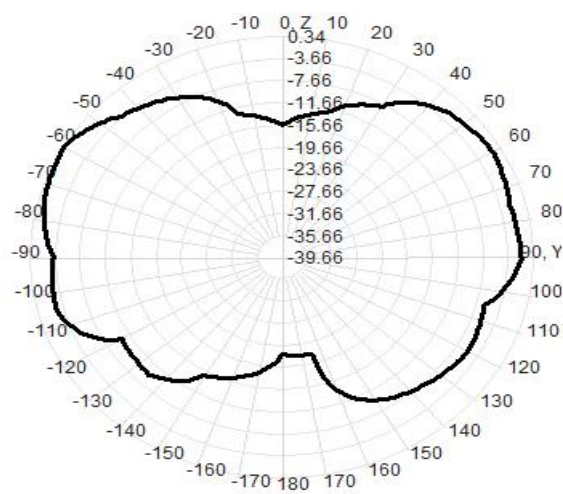
Frequency ID	1	2	3	4	5	6
Frequency (MHz)	2400	2450	2500	5000	5500	5600
Efficiency (dBi)	-1.96	-1.69	-1.91	-4.06	-4.12	-3.46
Gain (dBi)	0.34	1.45	0.90	2.06	1.66	1.52
Efficiency (%)	63.62	67.82	64.39	39.25	38.75	45.05
Directivity (dB)	4.19	4.03	3.00	4.54	4.88	5.30
Peak Gain Position (Theta)	105.00	105.00	105.00	105.00	90.00	75.00
Peak Gain Position (Phi)	60.00	60.00	60.00	15.00	315.00	270.00
Efficiency ThetaPol (%)	48.50	53.21	51.47	31.49	31.42	35.07
Efficiency PhiPol (%)	15.12	14.62	12.92	7.76	7.34	9.98
Upper Hem. Efficiency (%)	34.46	36.92	35.32	20.95	20.62	26.79
Lower Hem. Efficiency (%)	29.17	30.91	29.06	18.30	18.14	18.26

四、附件（天线增益、方向图）：

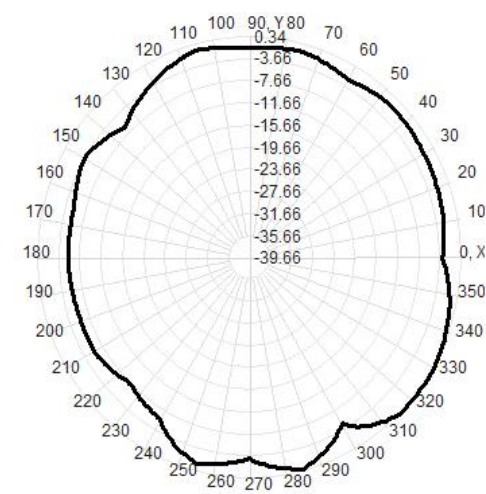
2400MHz



X-Y

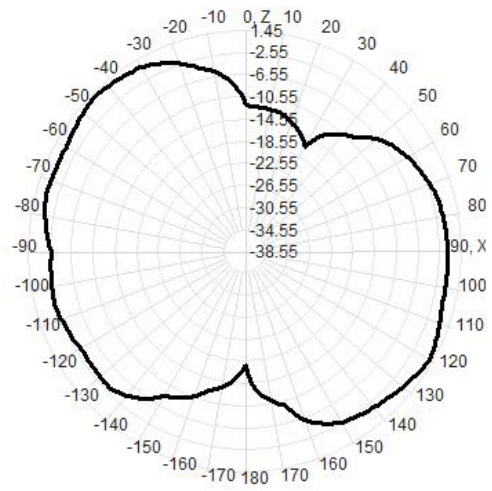
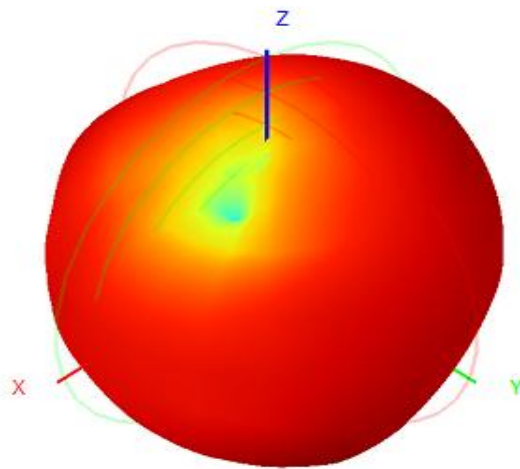


X-Z

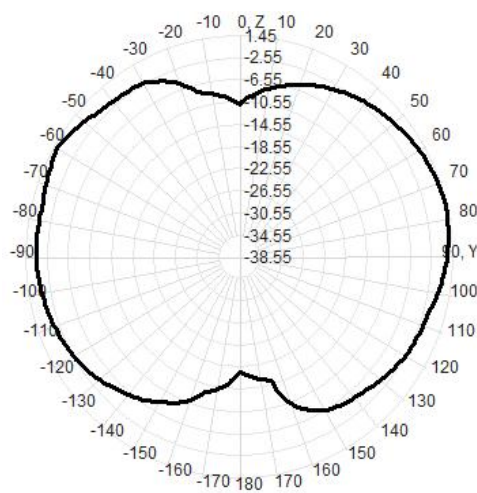


Y-Z

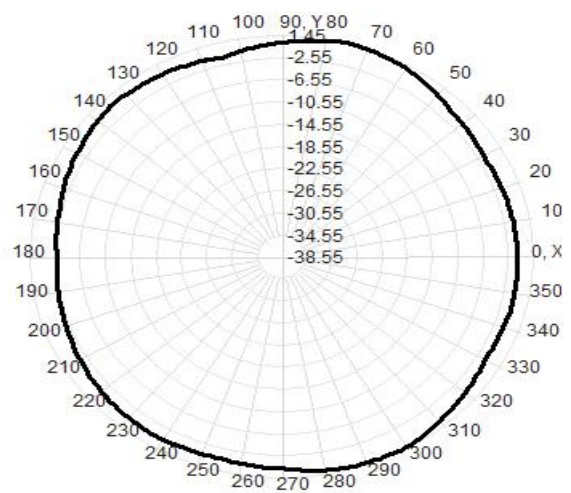
2450MHz



X-Y

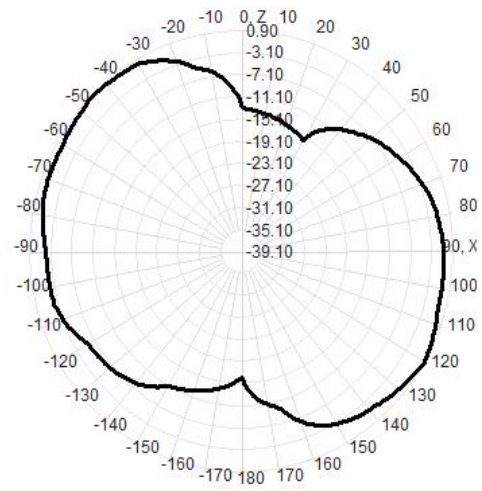
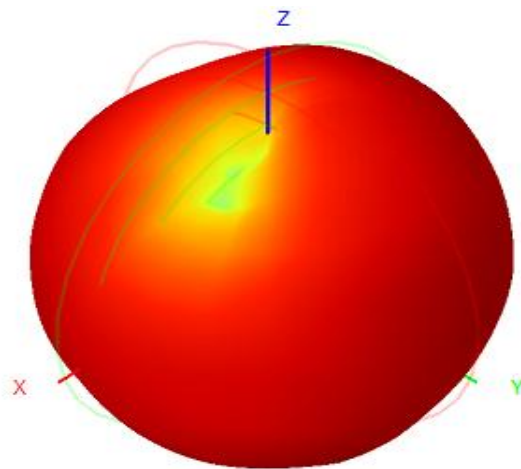


X-Z

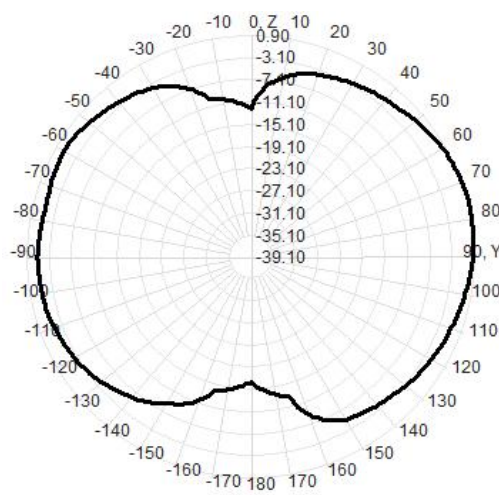


Y-Z

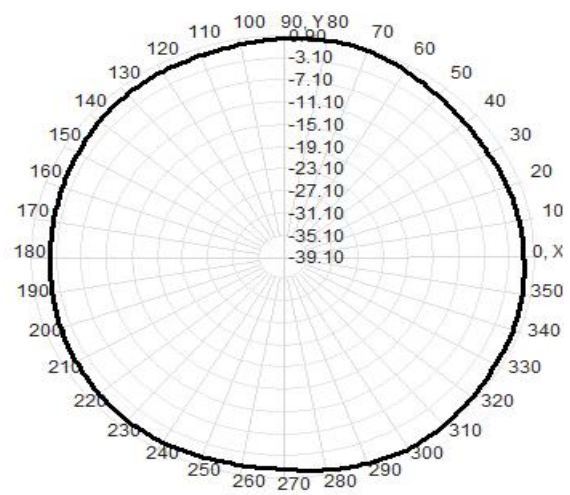
2500MHz



X-Y

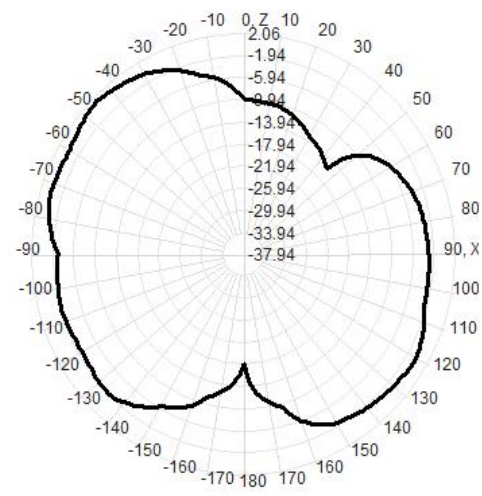
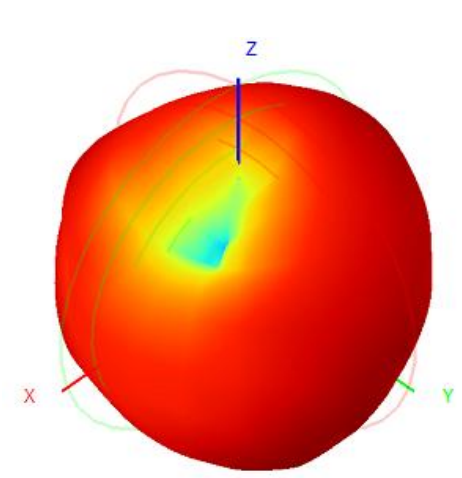


X-Z

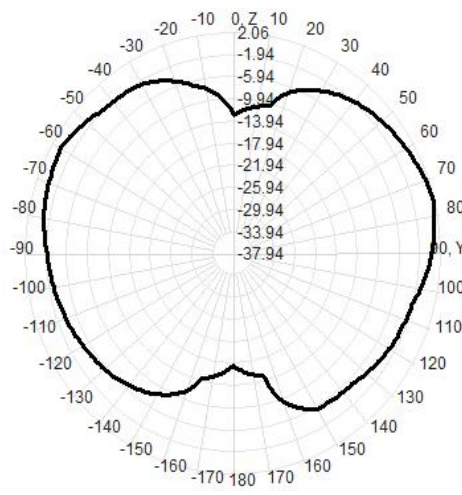


Y-Z

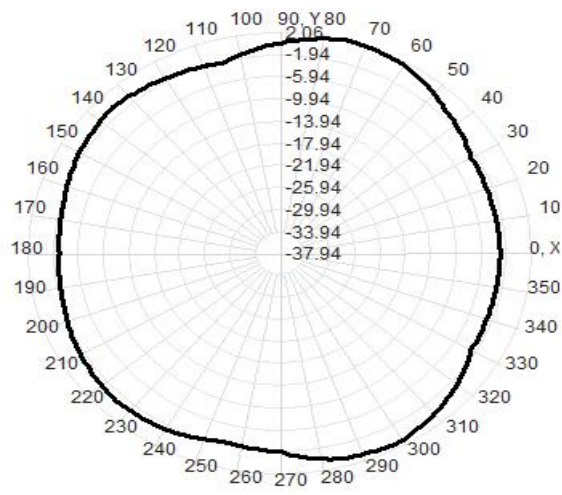
5000MHz



X-Y

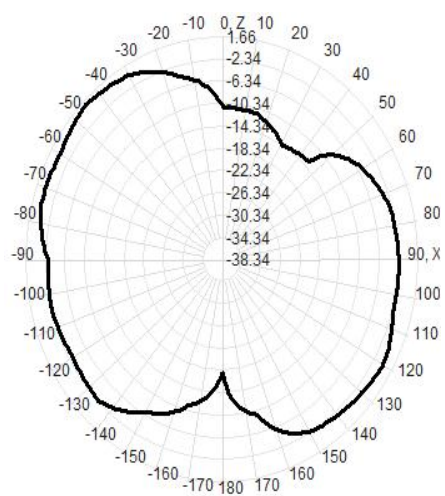
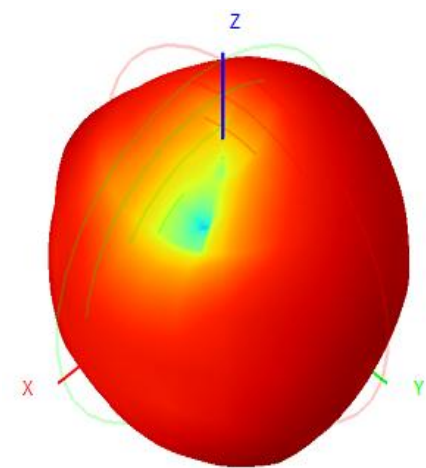


X-Z

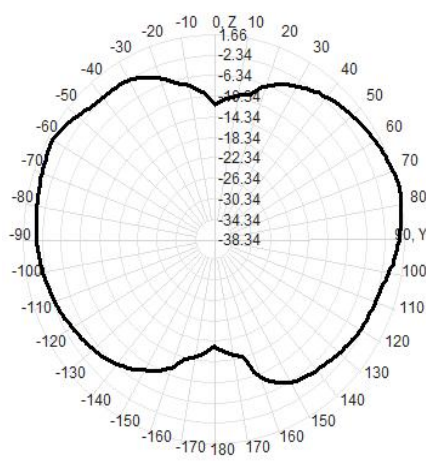


Y-Z

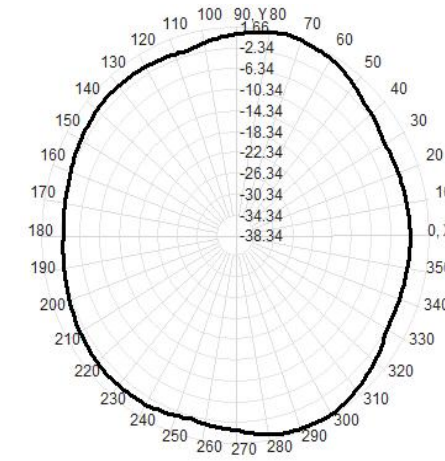
5500MHz



X-Y

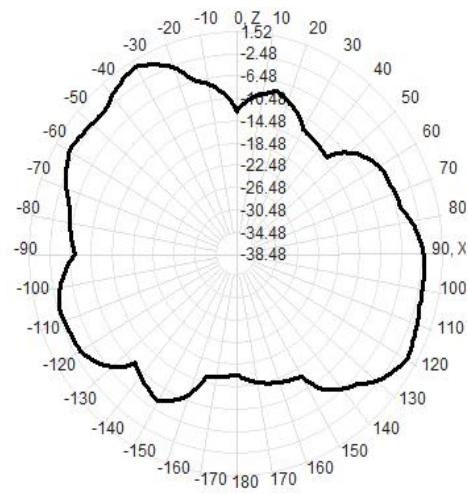
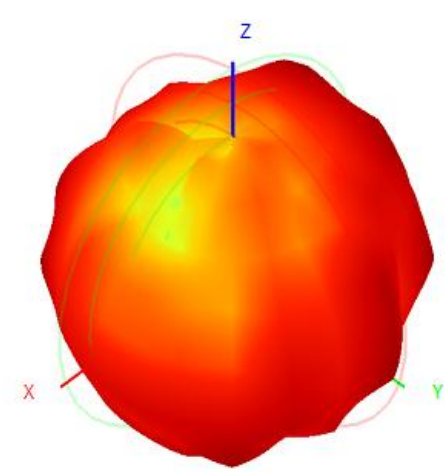


X-Z

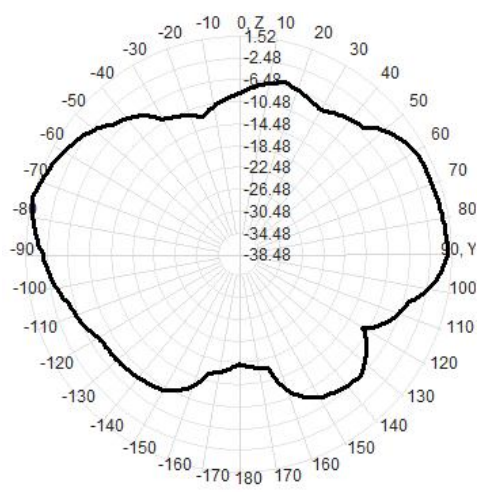


Y-Z

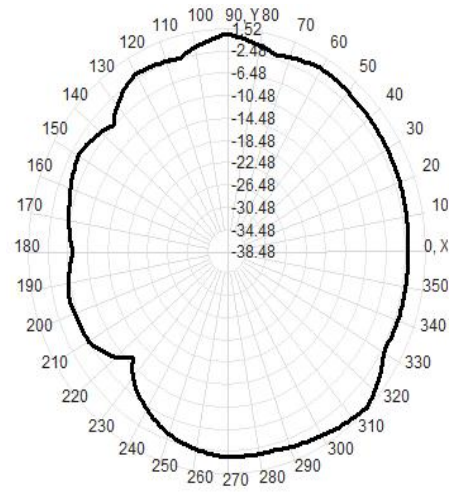
6000MHz



X-Y



X-Z



Y-Z