

# 900Mhz & 2.4G Dual Band Antenna

**MODEL: TH-9024G-SMA(M)**



## 1. GENERAL DESCRIPTION

Model No	P/N
TH-9024G	TH9024G-SMA(M)

Below is a table summarizing the antenna design specification.

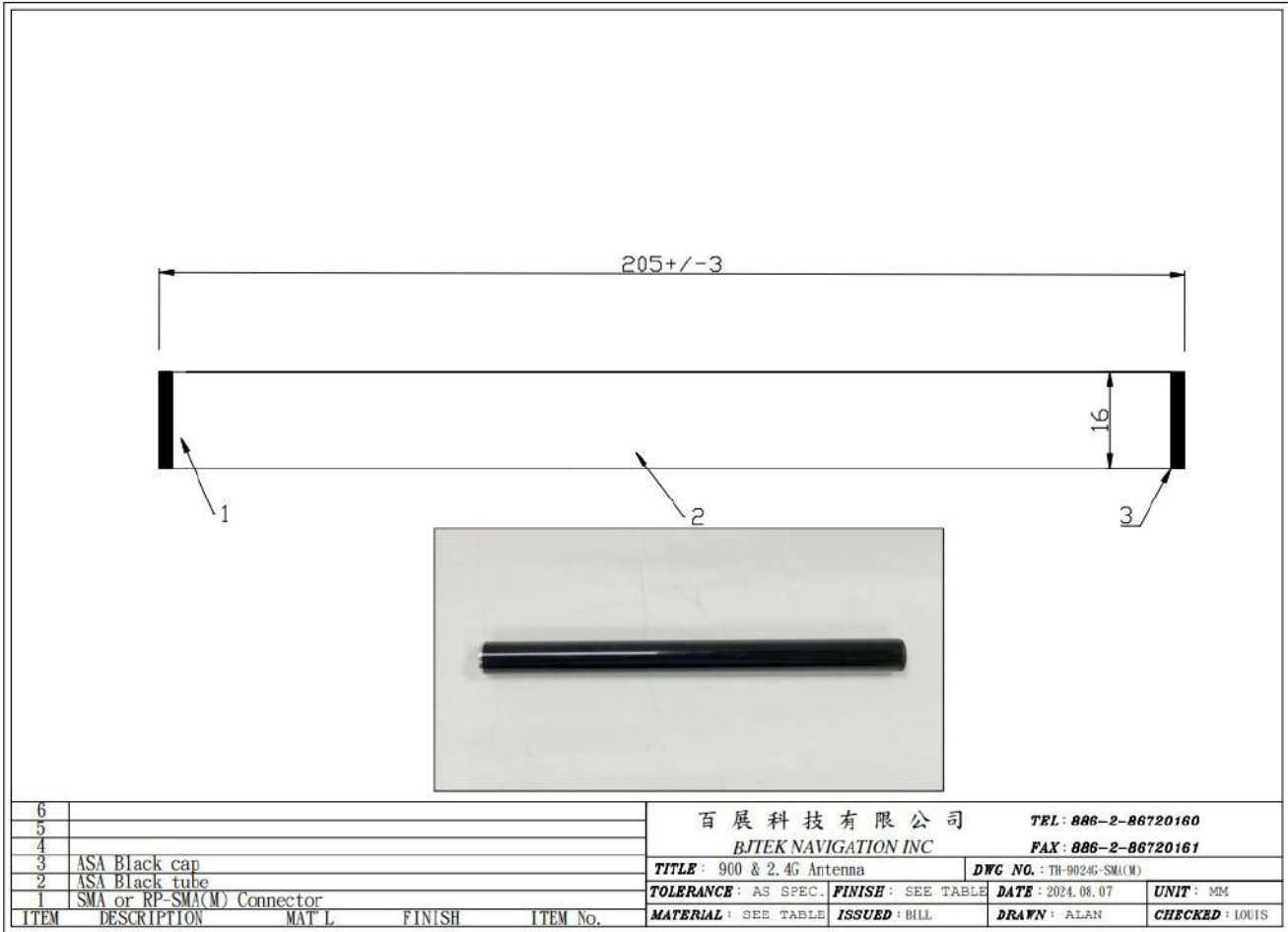
### 1.1 Electrical Properties

Parameter	Description
Frequency Band	902~928 MHz & 2.4~2.5Ghz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.0 : 1
Peak Gain	Low Band :1dbi & High Band :2.5dbi
Power	10W

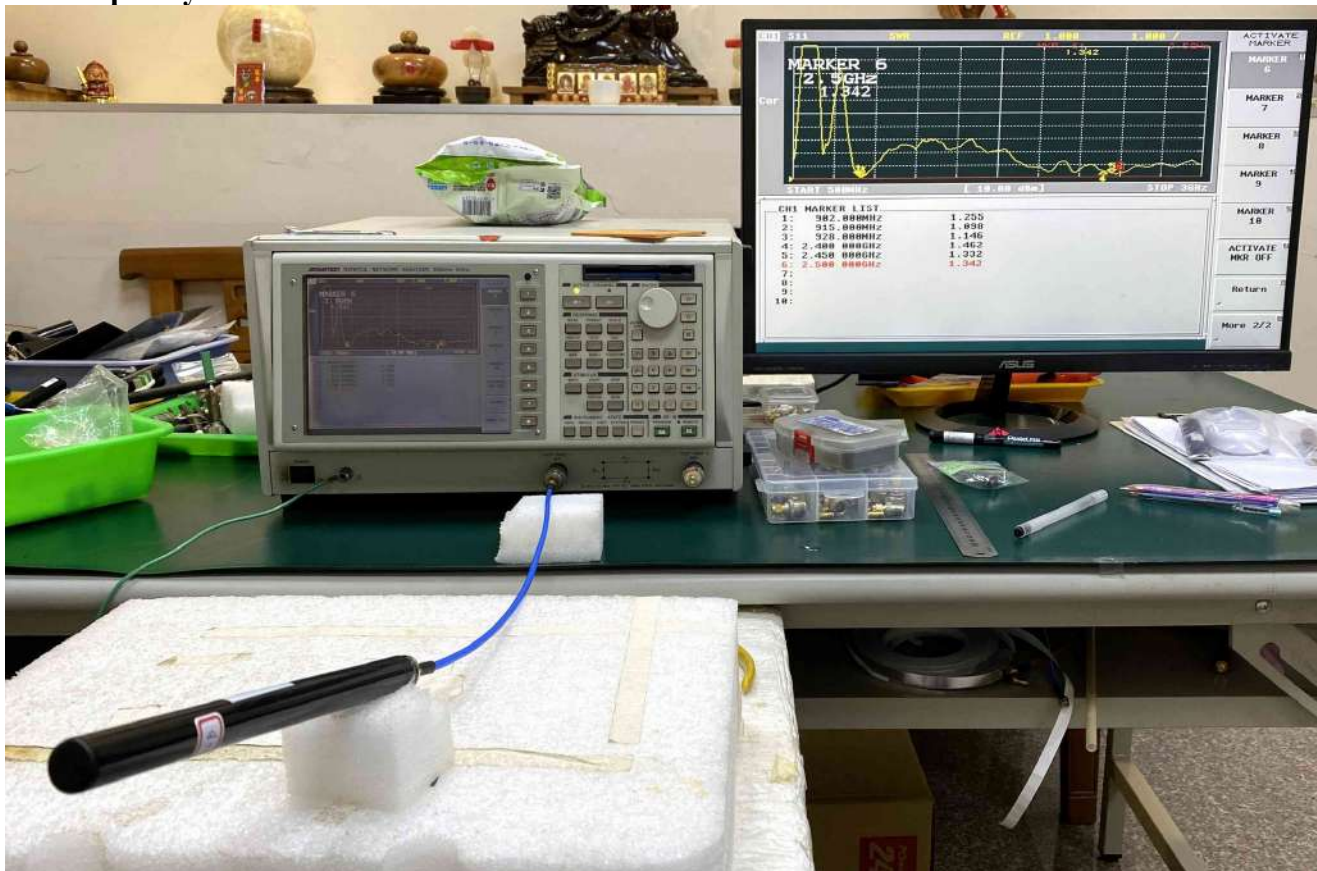
### 1.2 Mechanical Properties

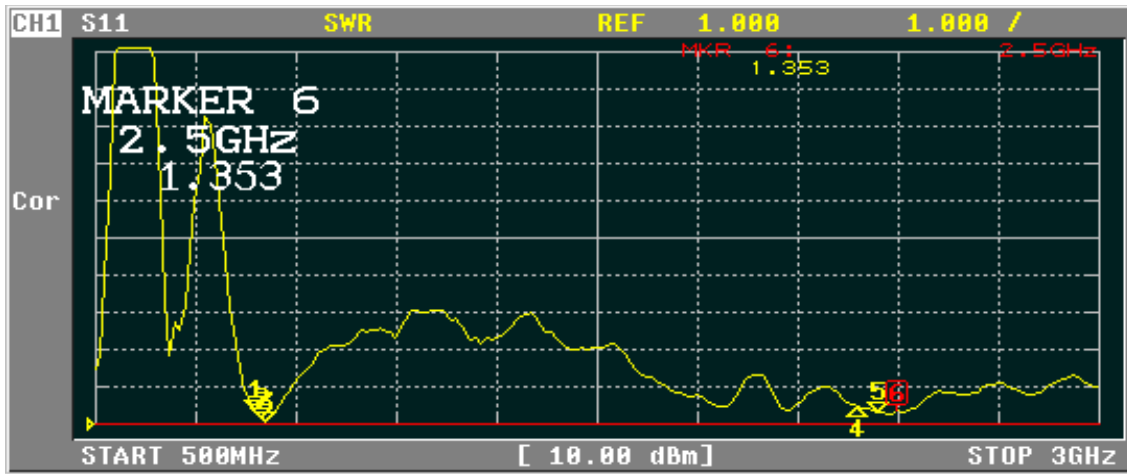
Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type
Connector Type	SMA(Male)
Antenna Dimensions	205mm ±3
Antenna Color	Black
weight	55g
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C
water proof	IP67

## 2. Appearance



## 3. Frequency





CH1 MARKER LIST

1:	902.000MHz	1.319
2:	915.000MHz	1.127
3:	928.000MHz	1.088
4:	2.400 000GHz	1.460
5:	2.450 000GHz	1.340
6:	2.500 000GHz	1.353
7:		
8:		
9:		
10:		

ACTIVATE MARKER

MARKER 6

MARKER 7

MARKER 8

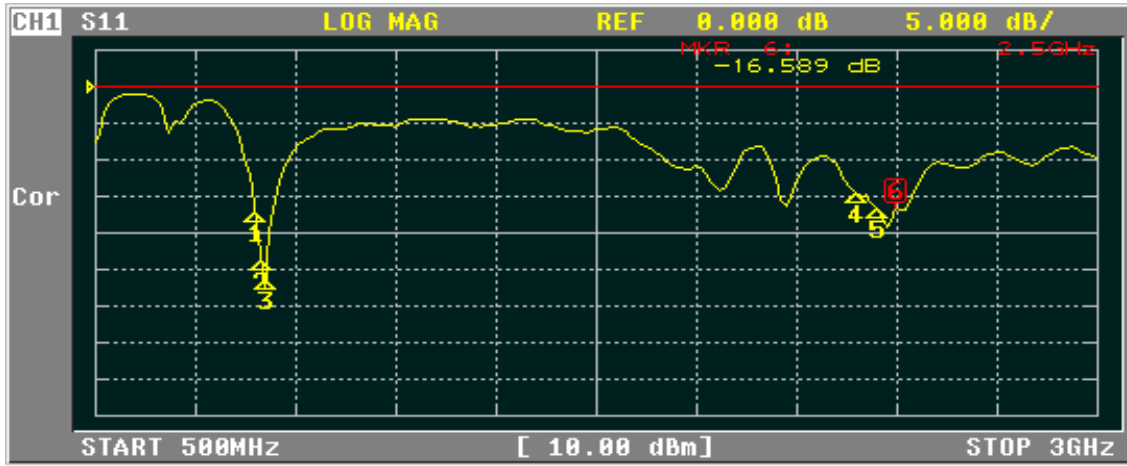
MARKER 9

MARKER 10

ACTIVATE MKR OFF

Return

More 2/2



CH1 MARKER LIST

1:	902.000MHz	-17.272 dB
2:	915.000MHz	-23.814 dB
3:	928.000MHz	-25.668 dB
4:	2.400 000GHz	-14.436 dB
5:	2.450 000GHz	-16.659 dB
6:	2.500 000GHz	-16.589 dB
7:		
8:		
9:		
10:		

FORMAT

LOG MAG

PHASE

DELAY

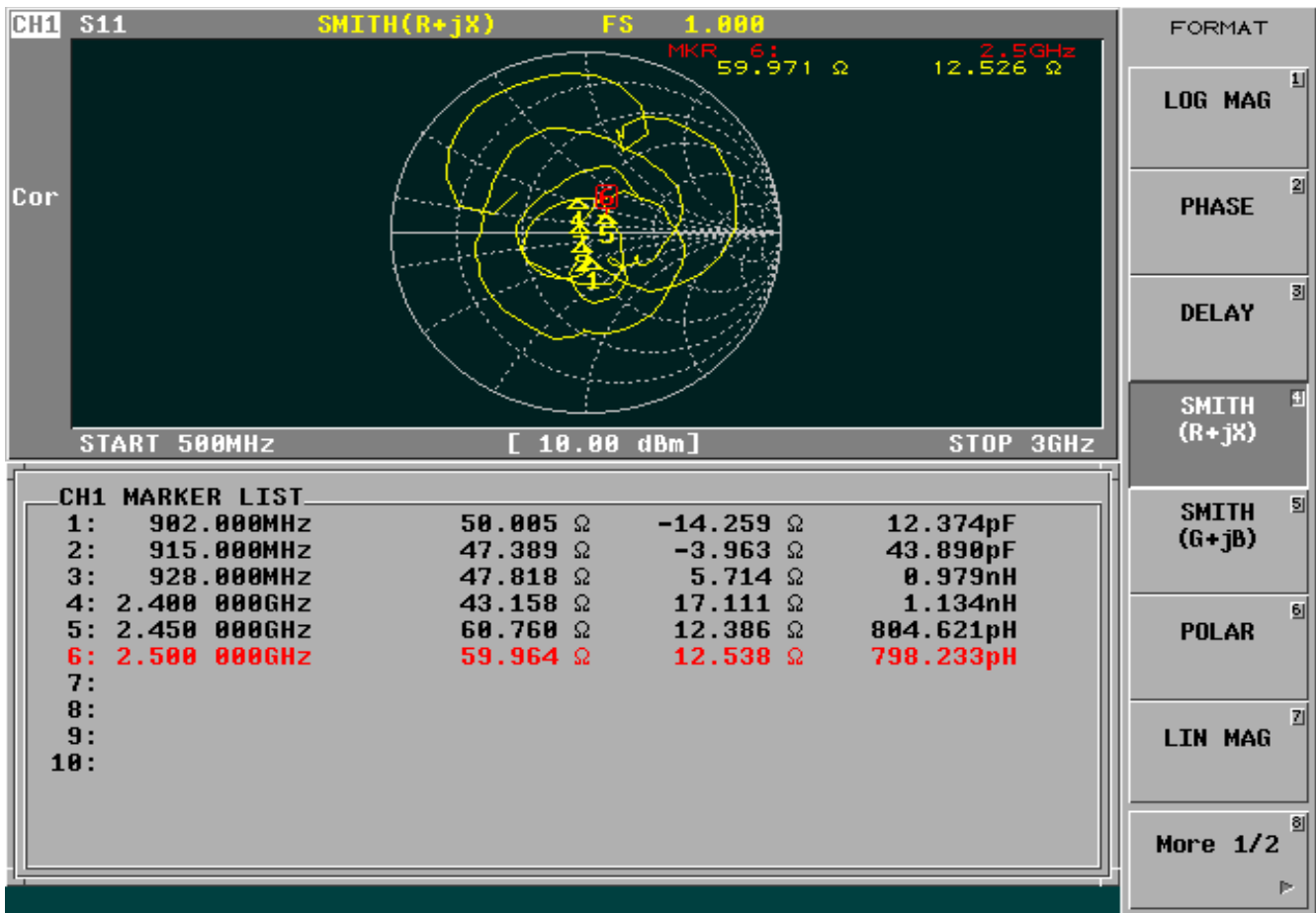
SMITH (R+jX)

SMITH (G+jB)

POLAR

LIN MAG

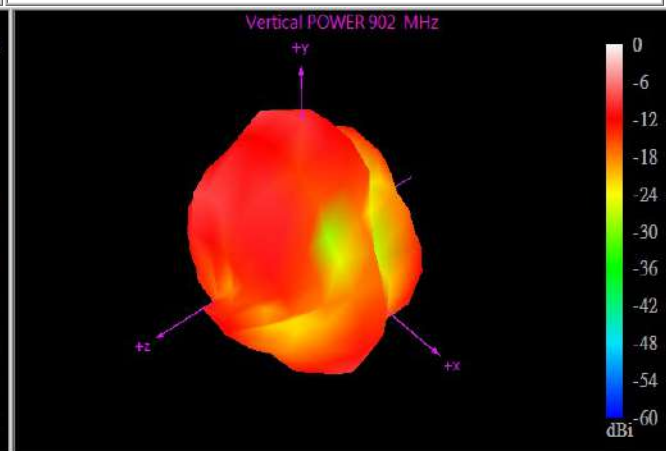
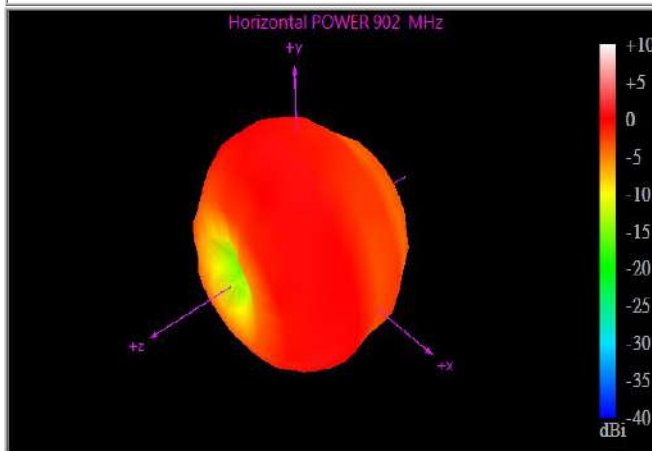
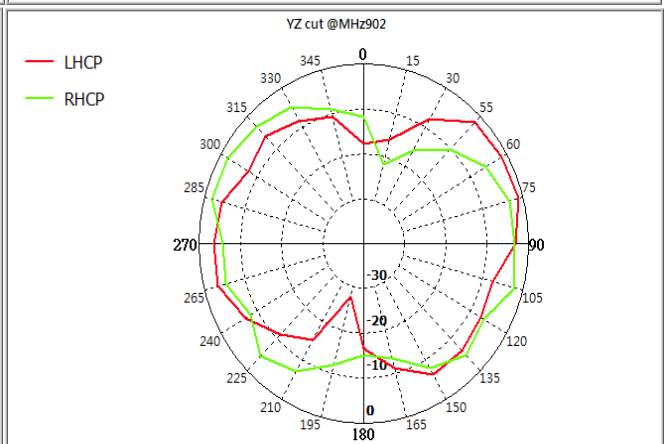
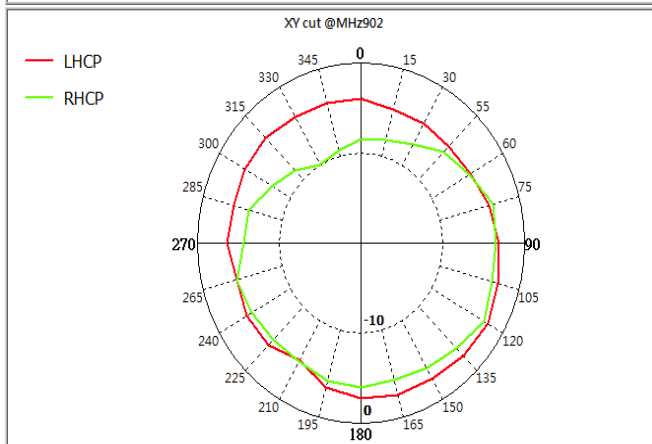
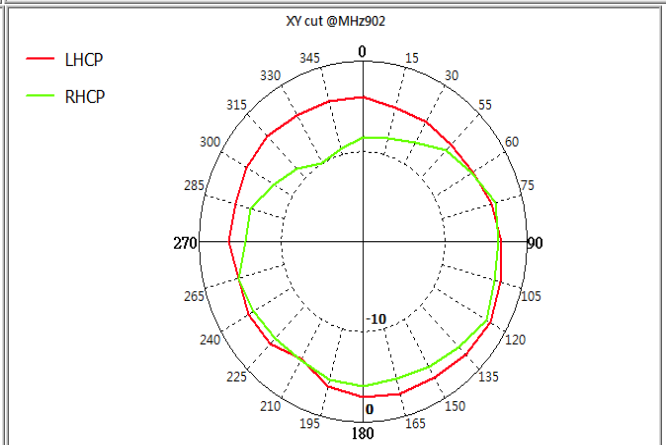
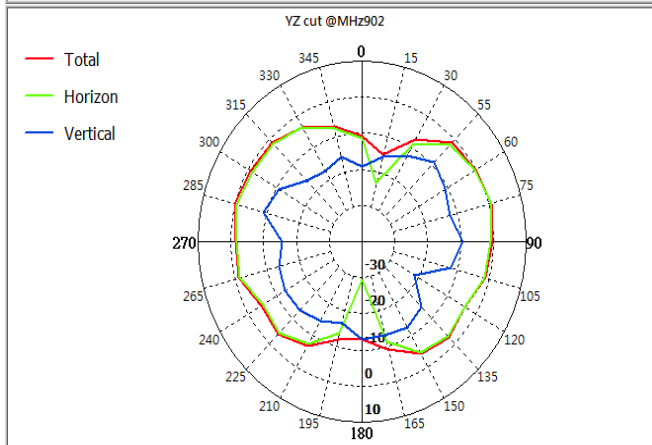
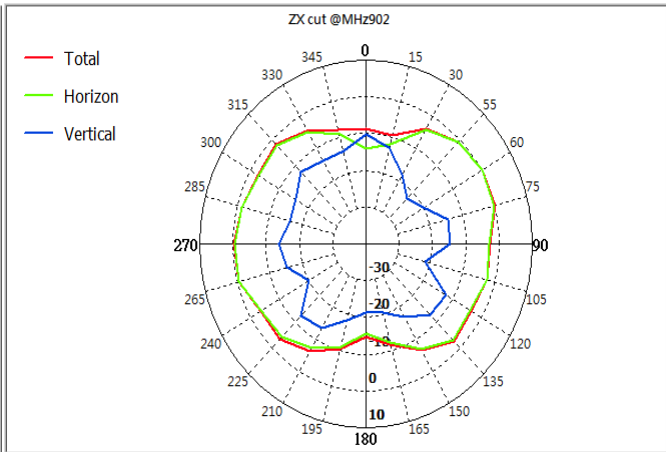
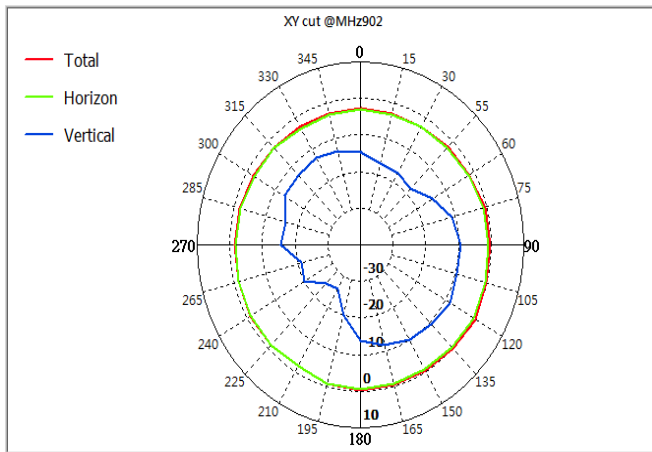
More 1/2

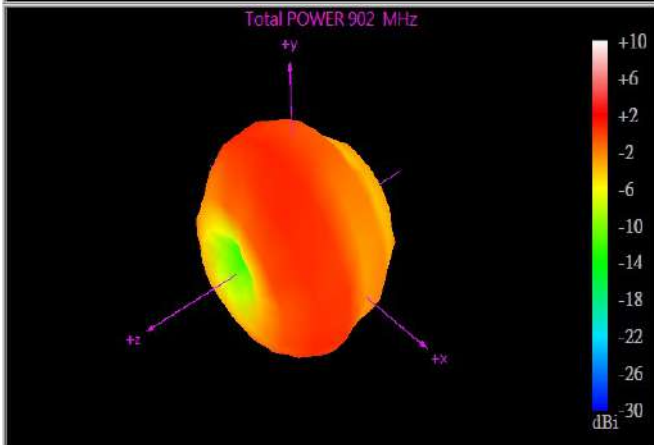
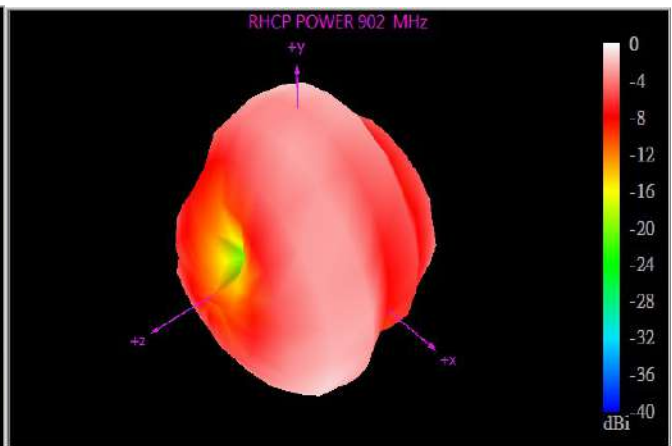
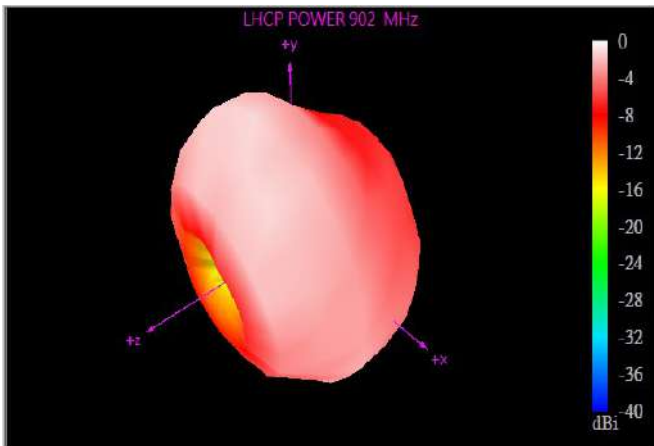


### 3D Total

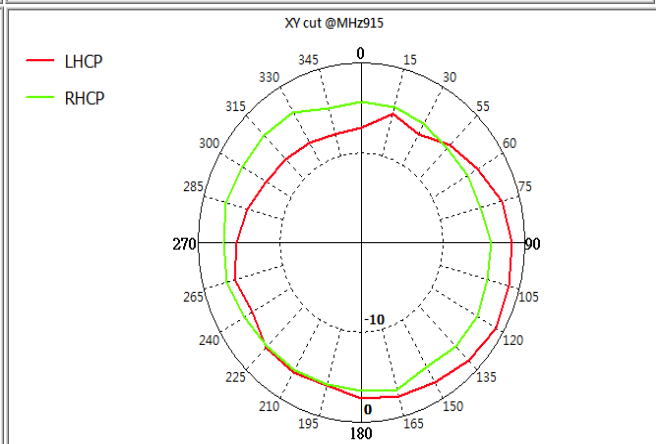
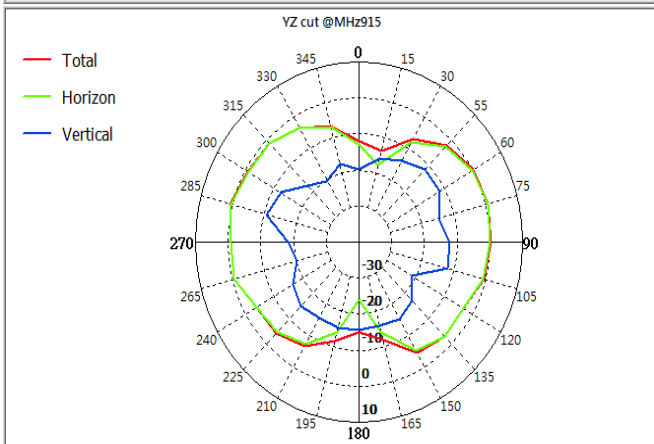
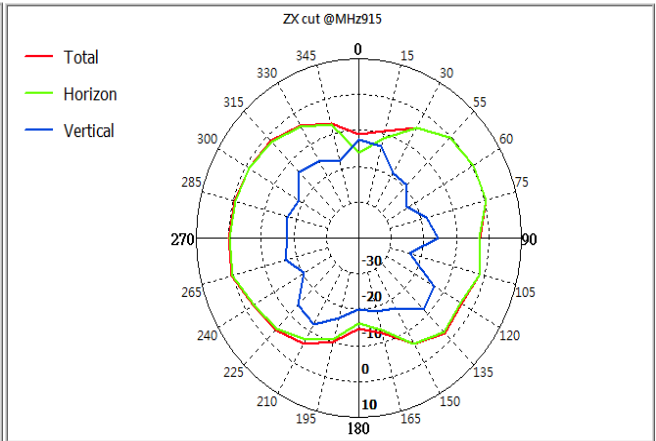
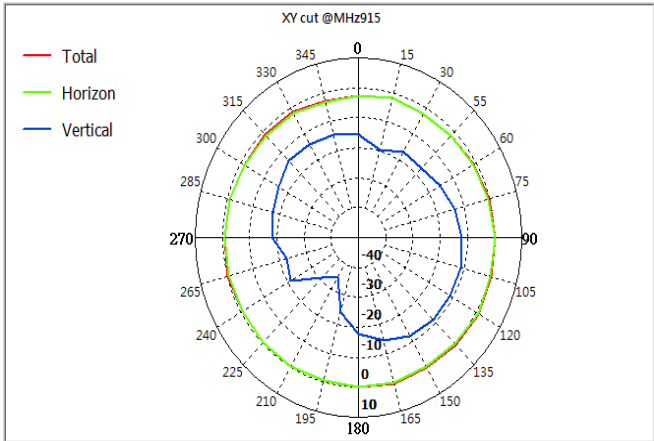
Frequency (MHz)	Upper Hem. PRP (dBm)	Lower HEM. PRP (dBm)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Tot. Rad.Pwr. (dBm)
902 MHz	-4.62	-6.14	-2.30	58.84	0.95	-2.30
915 MHz	-4.28	-5.72	-1.93	64.13	1.17	-1.93
928 MHz	-3.84	-5.16	-1.44	71.79	1.48	-1.44
930 MHz	-3.79	-5.16	-1.41	72.32	1.61	-1.41
2000 MHz	-3.51	-9.63	-2.56	55.41	3.52	-2.56
2100 MHz	-4.11	-8.18	-2.68	53.99	2.02	-2.68
2200 MHz	-5.16	-8.06	-3.36	46.12	2.70	-3.36
2300 MHz	-5.23	-6.87	-2.96	50.53	1.68	-2.96
2400 MHz	-5.44	-6.76	-3.04	49.66	2.60	-3.04
2450 MHz	-5.72	-6.55	-3.11	48.90	2.30	-3.11
2500 MHz	-5.10	-5.95	-2.50	56.29	2.63	-2.50
2600 MHz	-4.95	-5.86	-2.37	57.97	2.61	-2.37

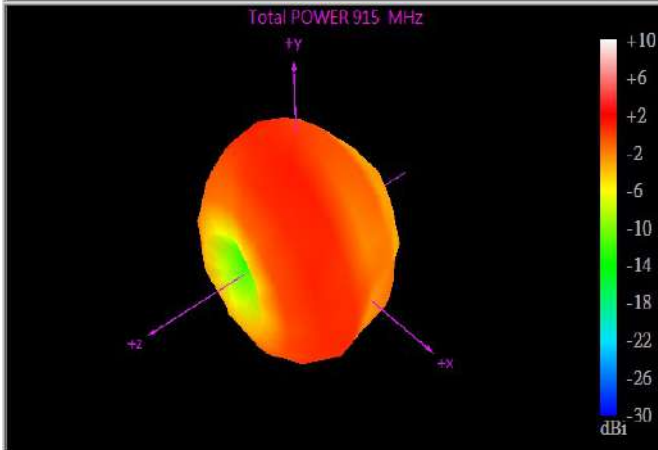
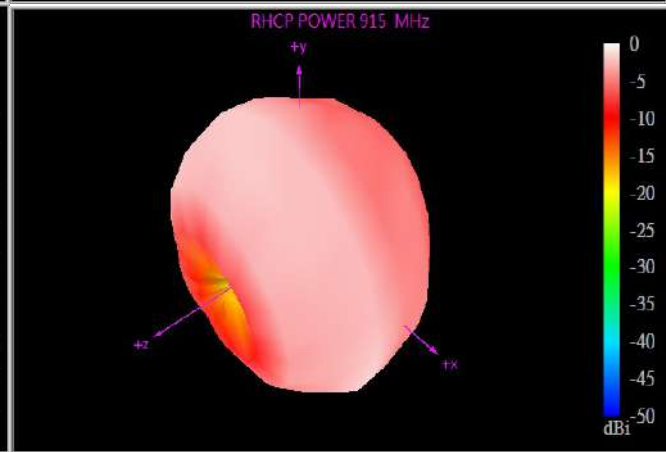
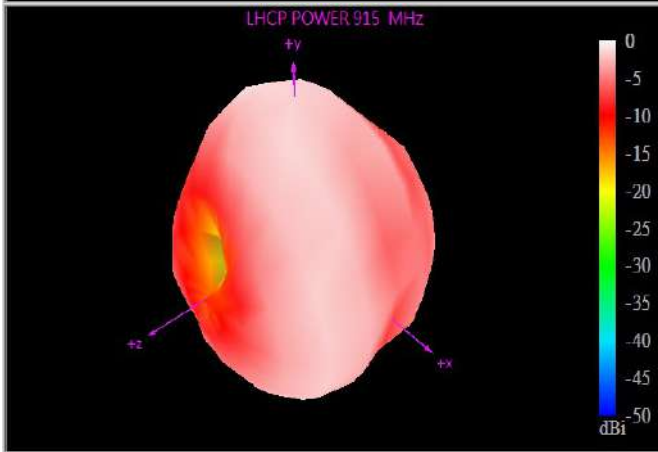
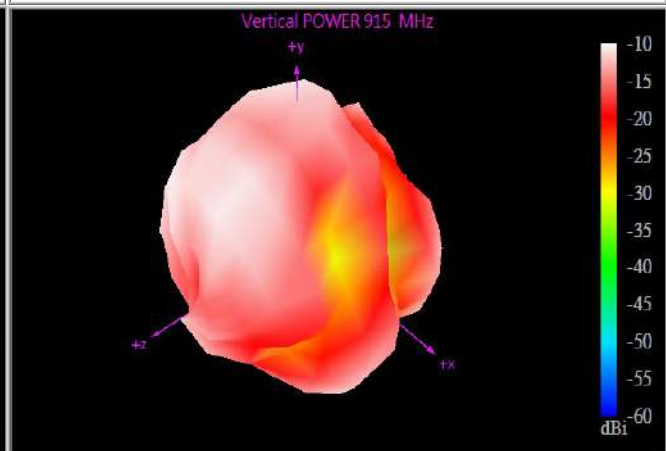
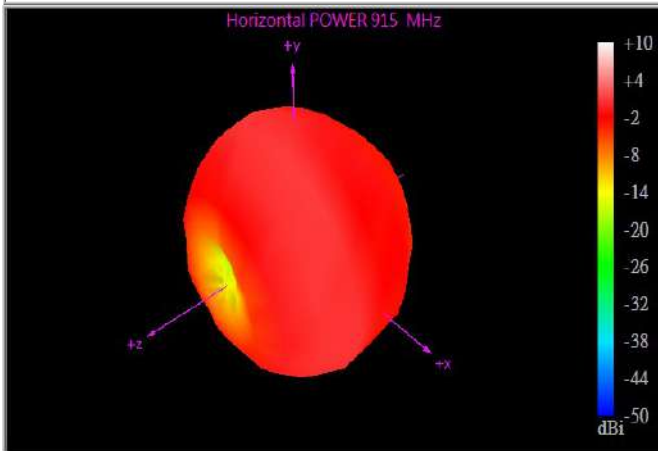
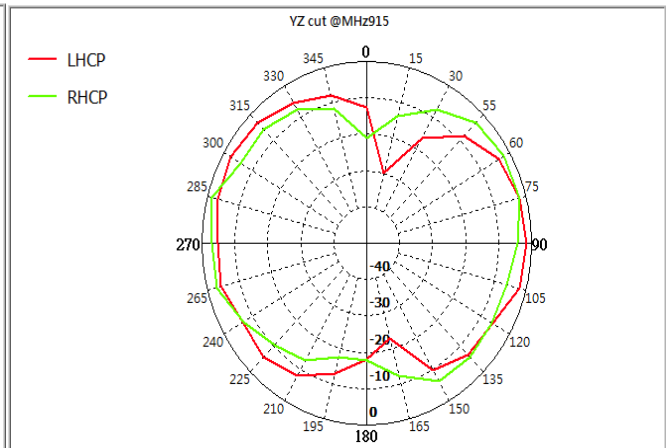
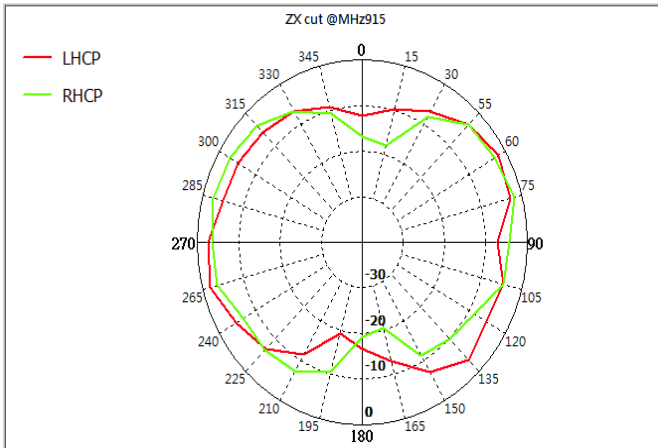
902Mhz:



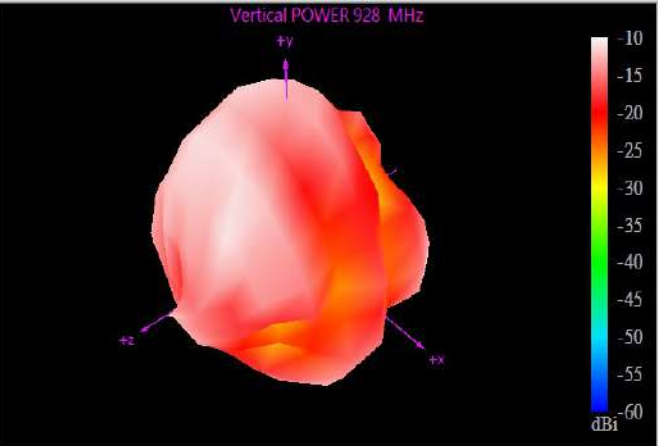
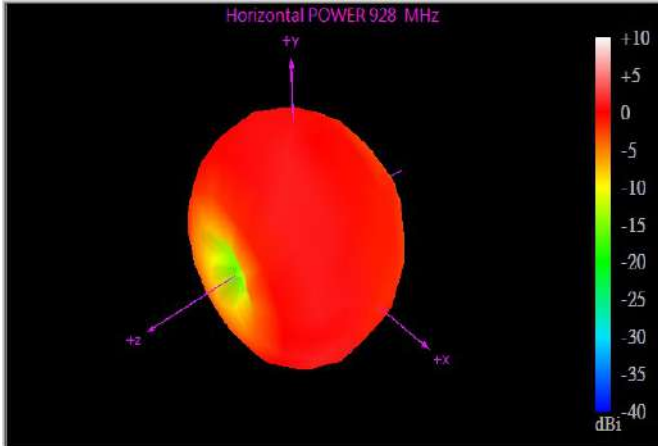
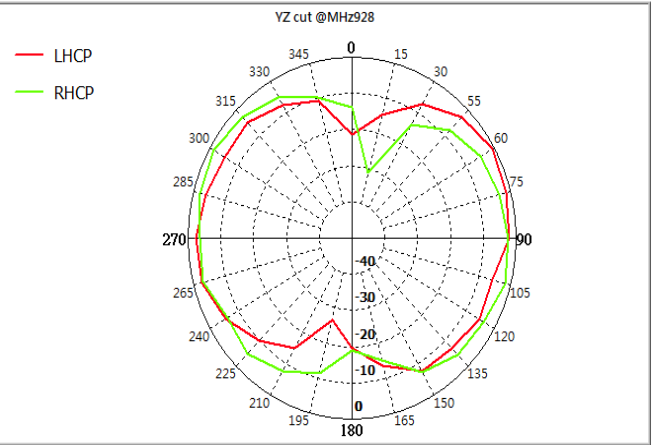
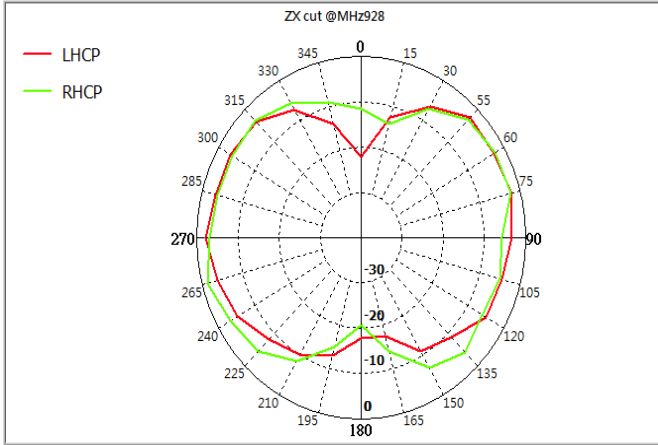
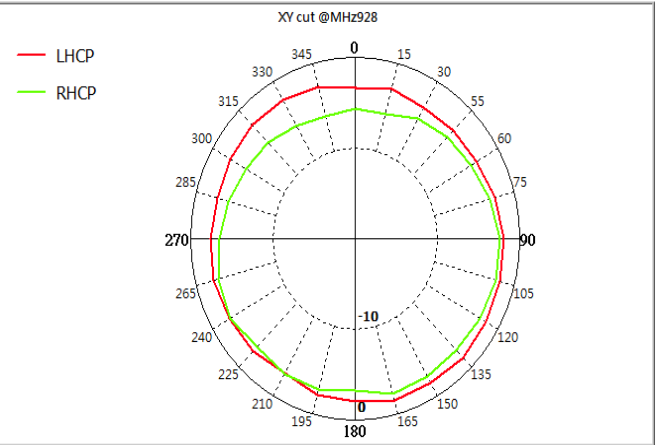
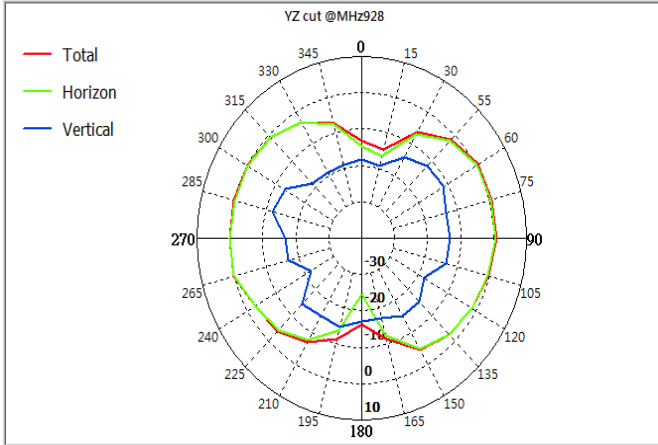
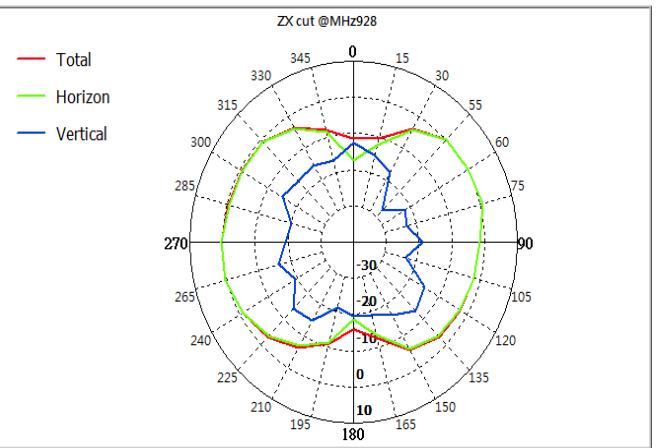
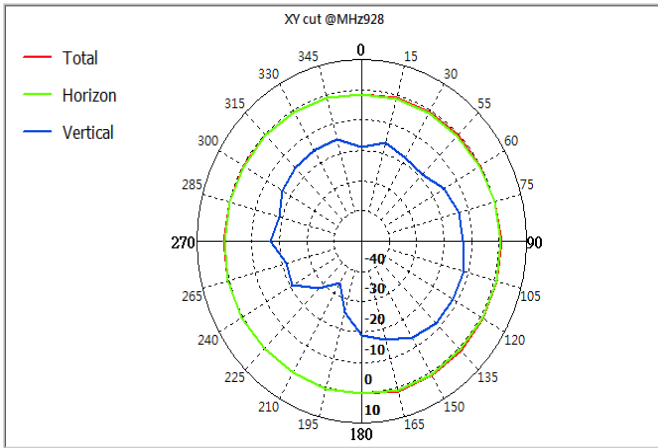


**915Mhz:**

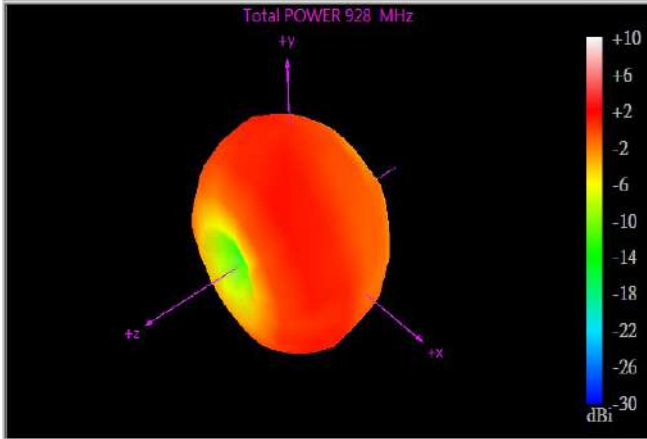
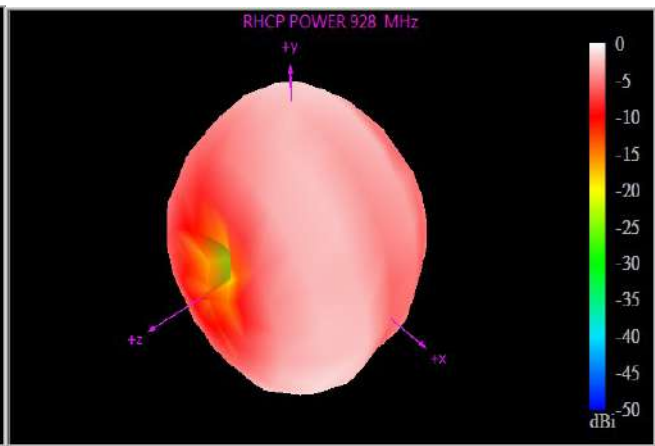
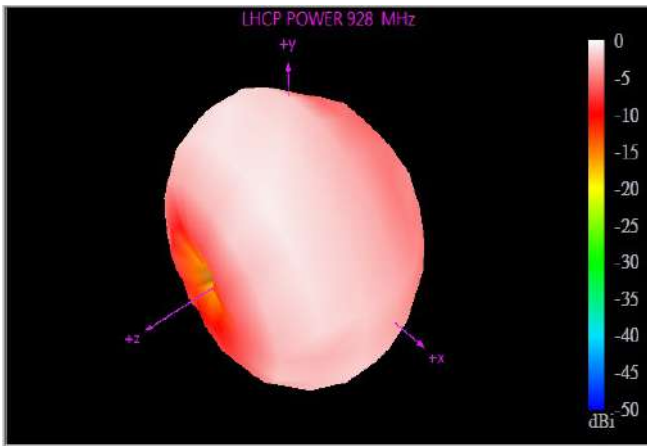




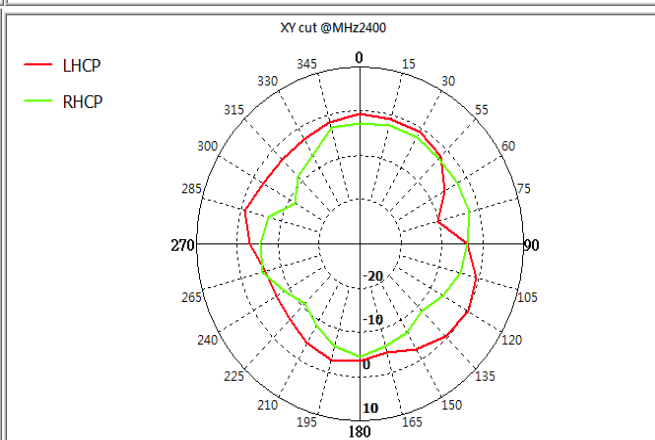
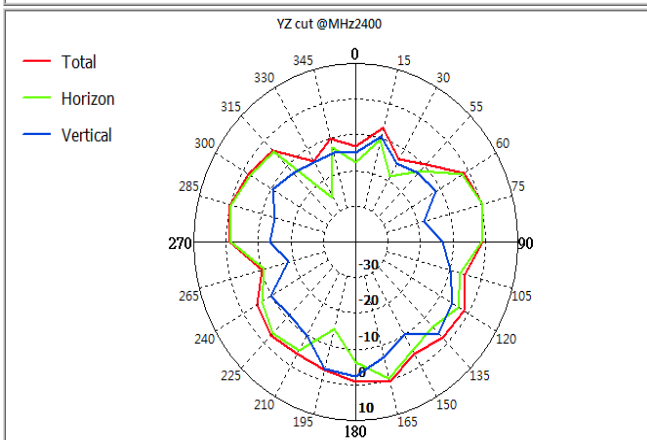
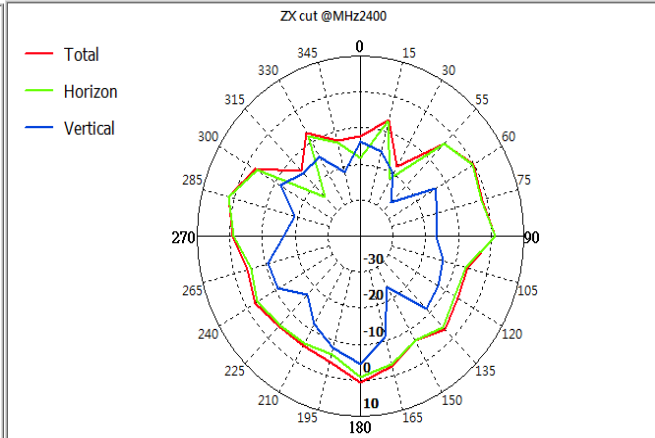
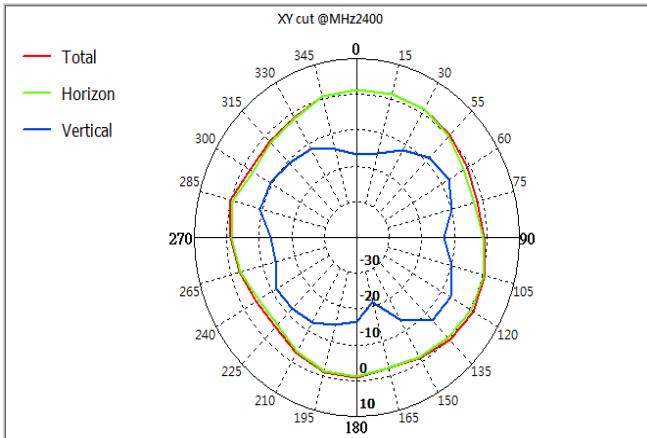
928Mhz:

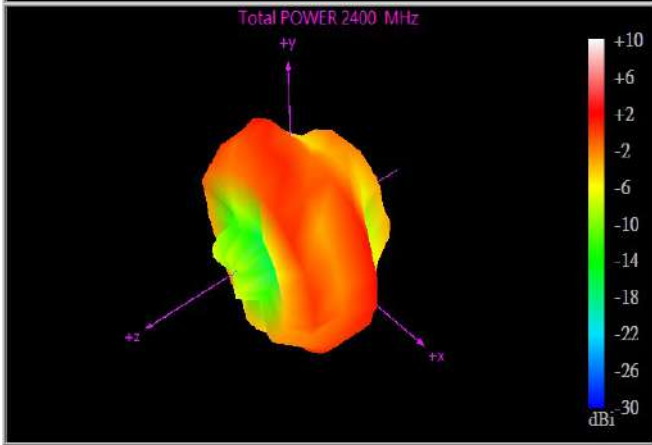
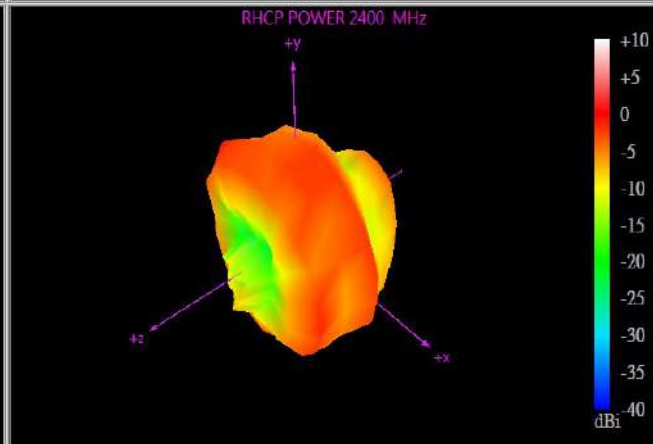
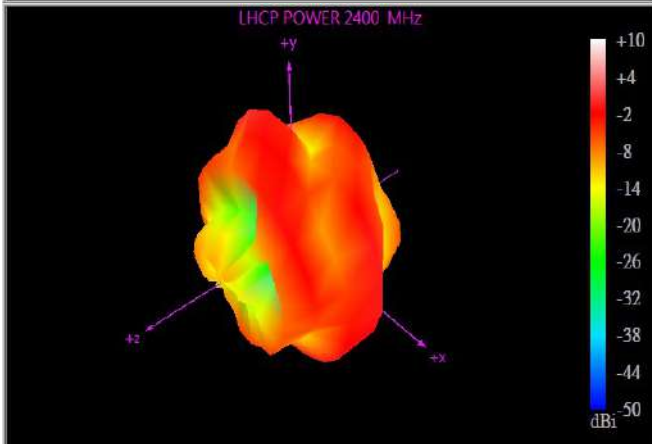
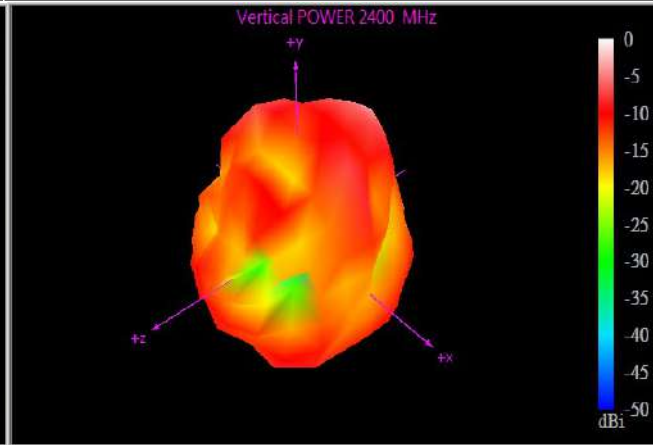
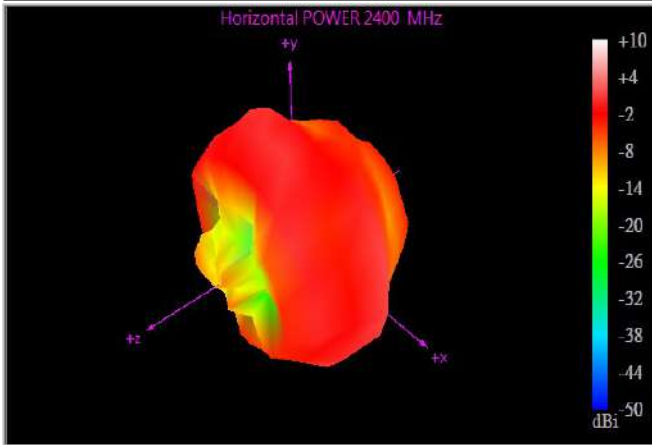
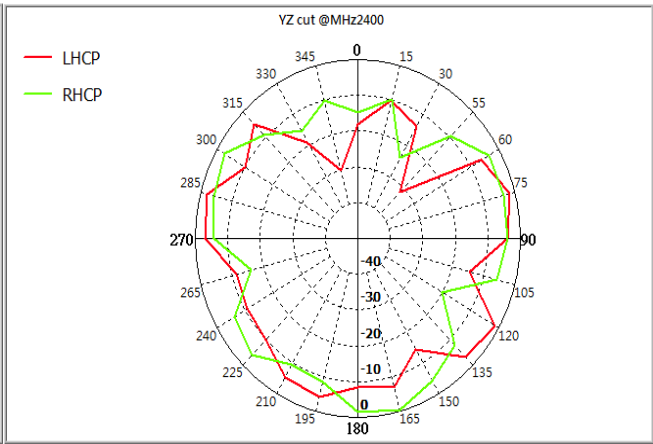
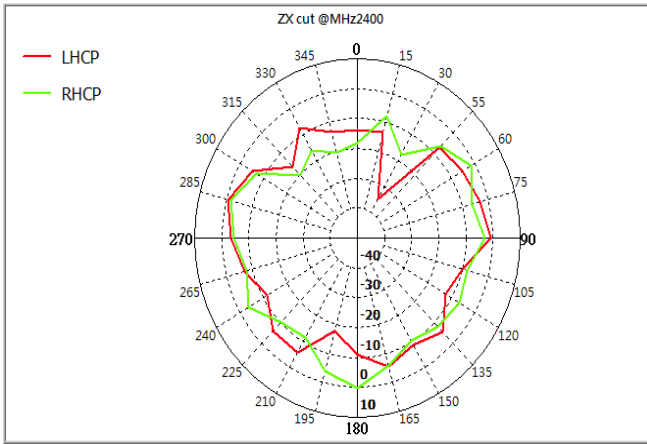




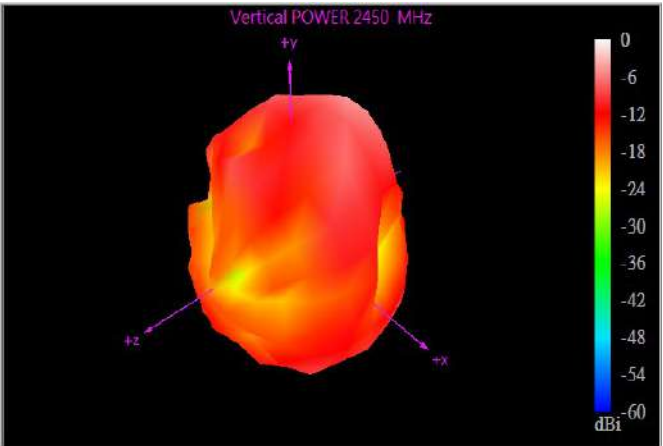
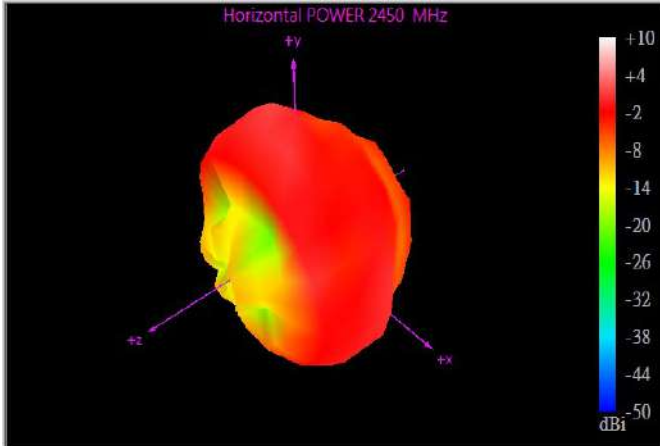
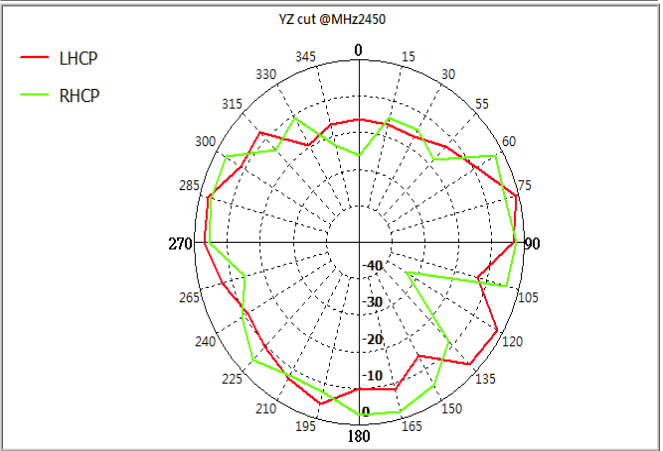
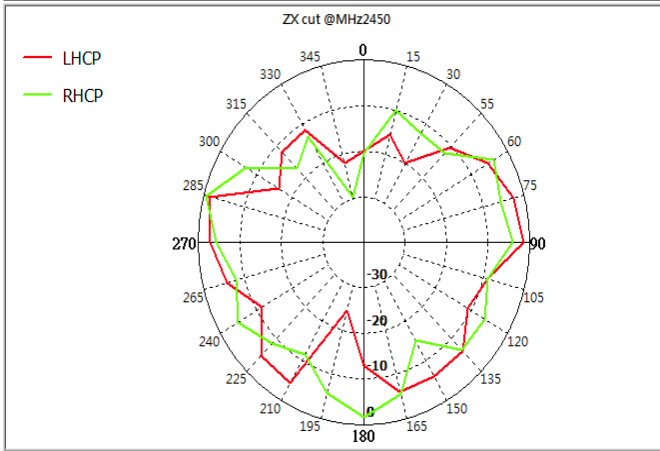
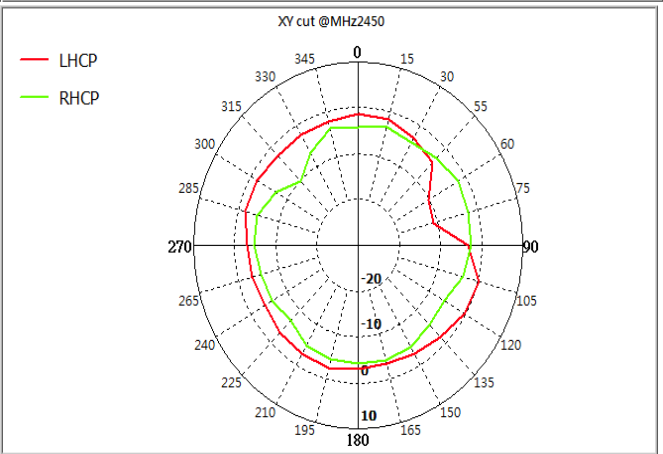
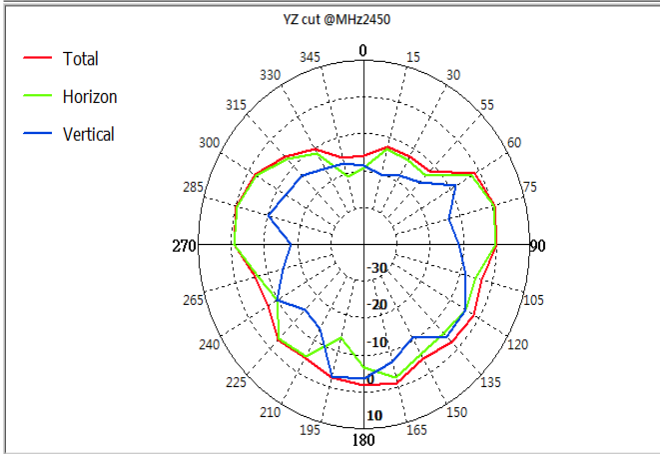
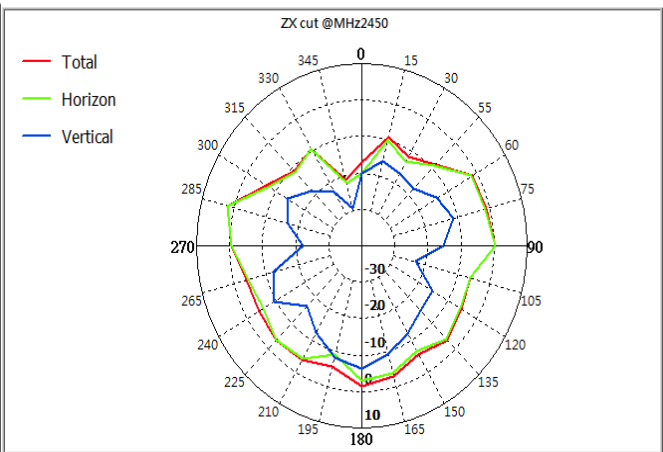
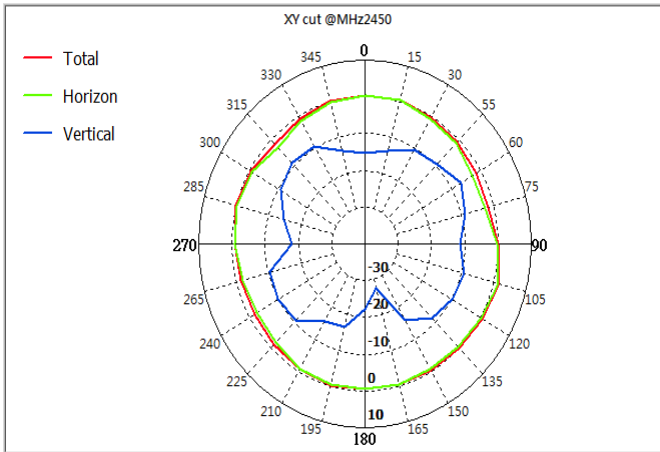


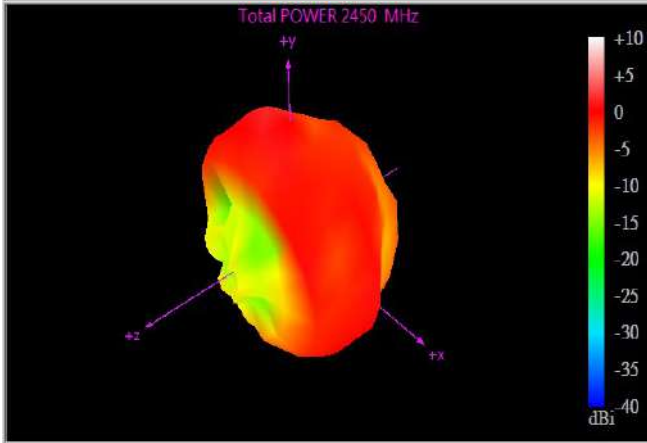
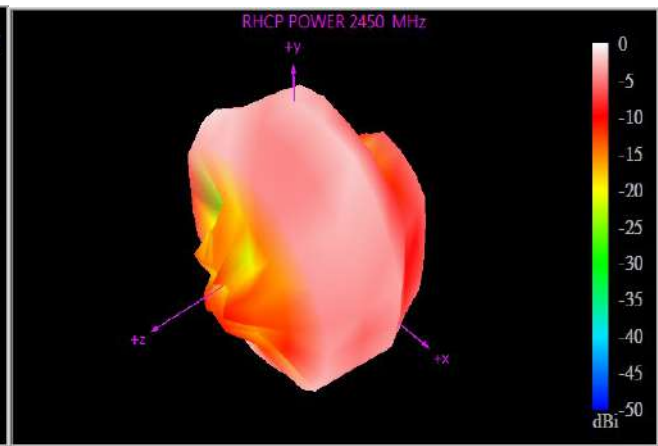
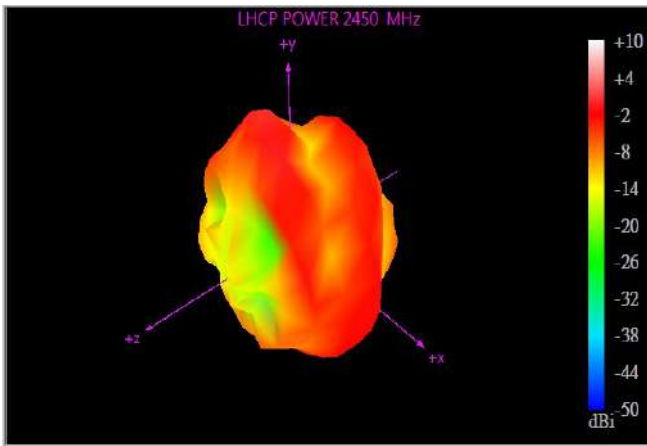
**2400Mhz:**





2450Mhz:





**2500MHz:**

