

2.4/5G/6/7G Wifi-6 Antenna

MODEL: TH-2458R



1. GENERAL DESCRIPTION

Model No
TH-2458R-SMA(M)

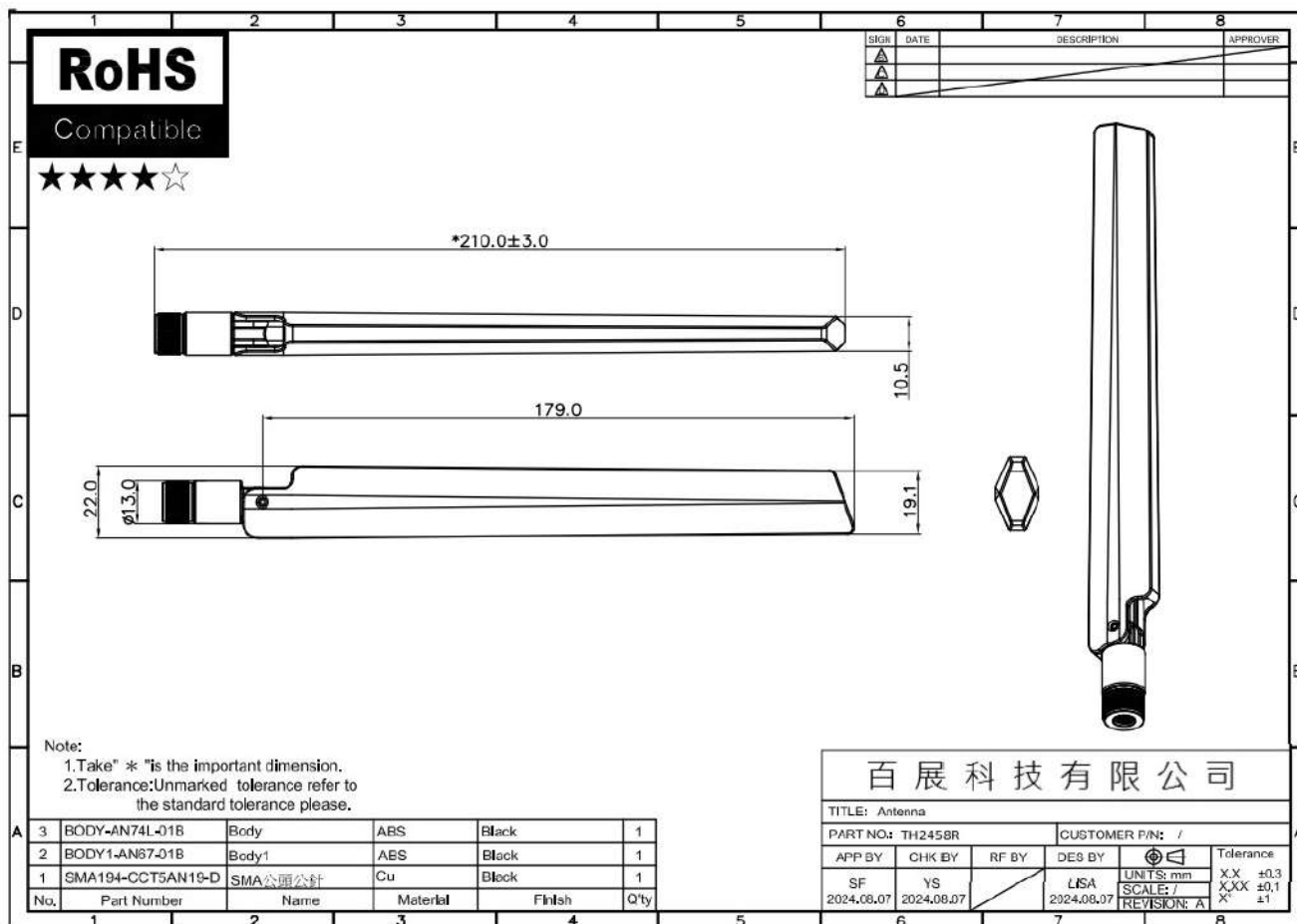
1.1 Electrical Properties

Parameter	Description
Frequency Band	2.4~2.5/5.1~5.85/6~7.125GHz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	3.0:1

1.2 Mechanical Properties

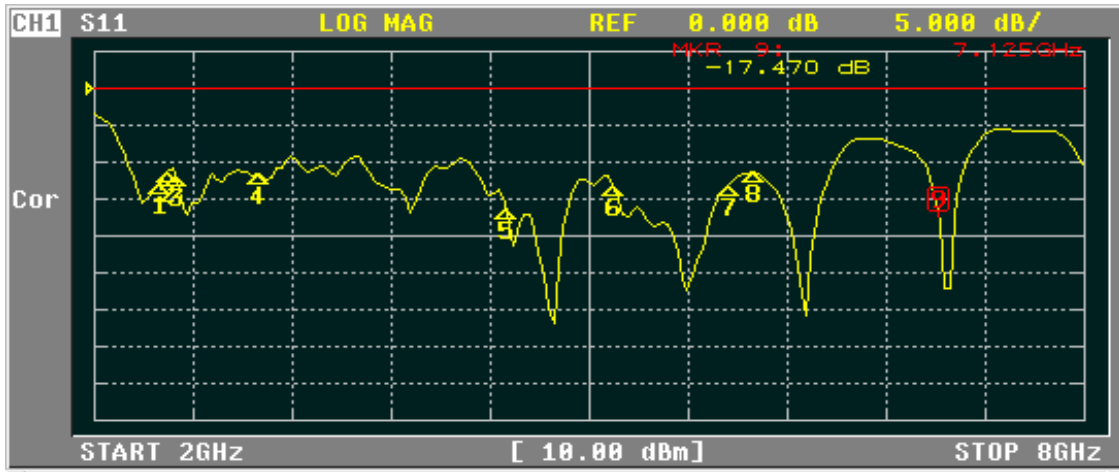
Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type
Connector Type	SMA(M) or RP-SMA(M)
Antenna Dimensions	22 x 210 mm \pm 3
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C

2. Appearance



3. Return Loss, V.S.W.R. and Smith Chart



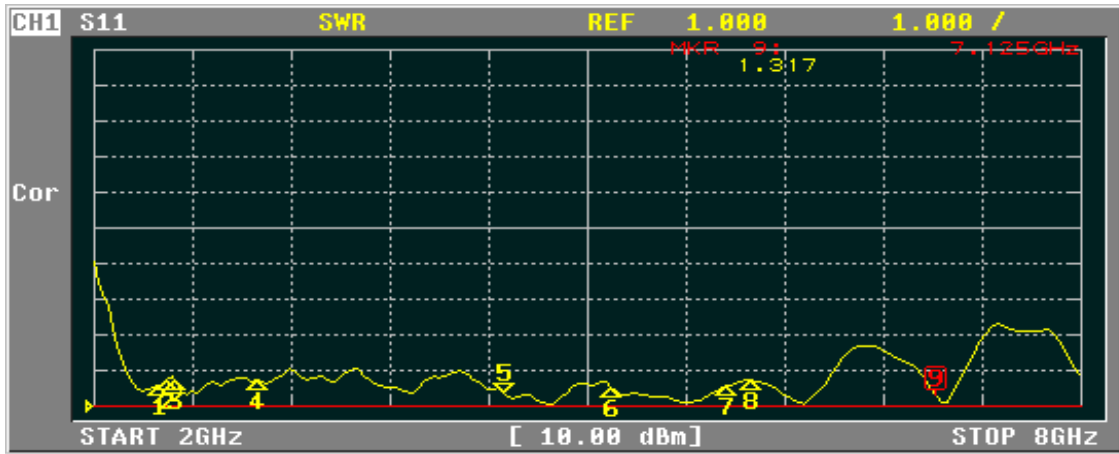


FORMAT

- LOG MAG ¹
- PHASE ²
- DELAY ³
- SMITH (R+jX) ⁴
- SMITH (G+jB) ⁵
- POLAR ⁶
- LIN MAG ⁷
- More 1/2 ⁸

CH1 MARKER LIST

1:	2.400 000GHz	-12.840 dB
2:	2.450 000GHz	-11.412 dB
3:	2.500 000GHz	-12.019 dB
4:	3.000 000GHz	-11.572 dB
5:	4.500 000GHz	-16.555 dB
6:	5.150 000GHz	-13.146 dB
7:	5.850 000GHz	-12.987 dB
8:	6.000 000GHz	-11.511 dB
9:	7.125 000GHz	-17.478 dB
10:		

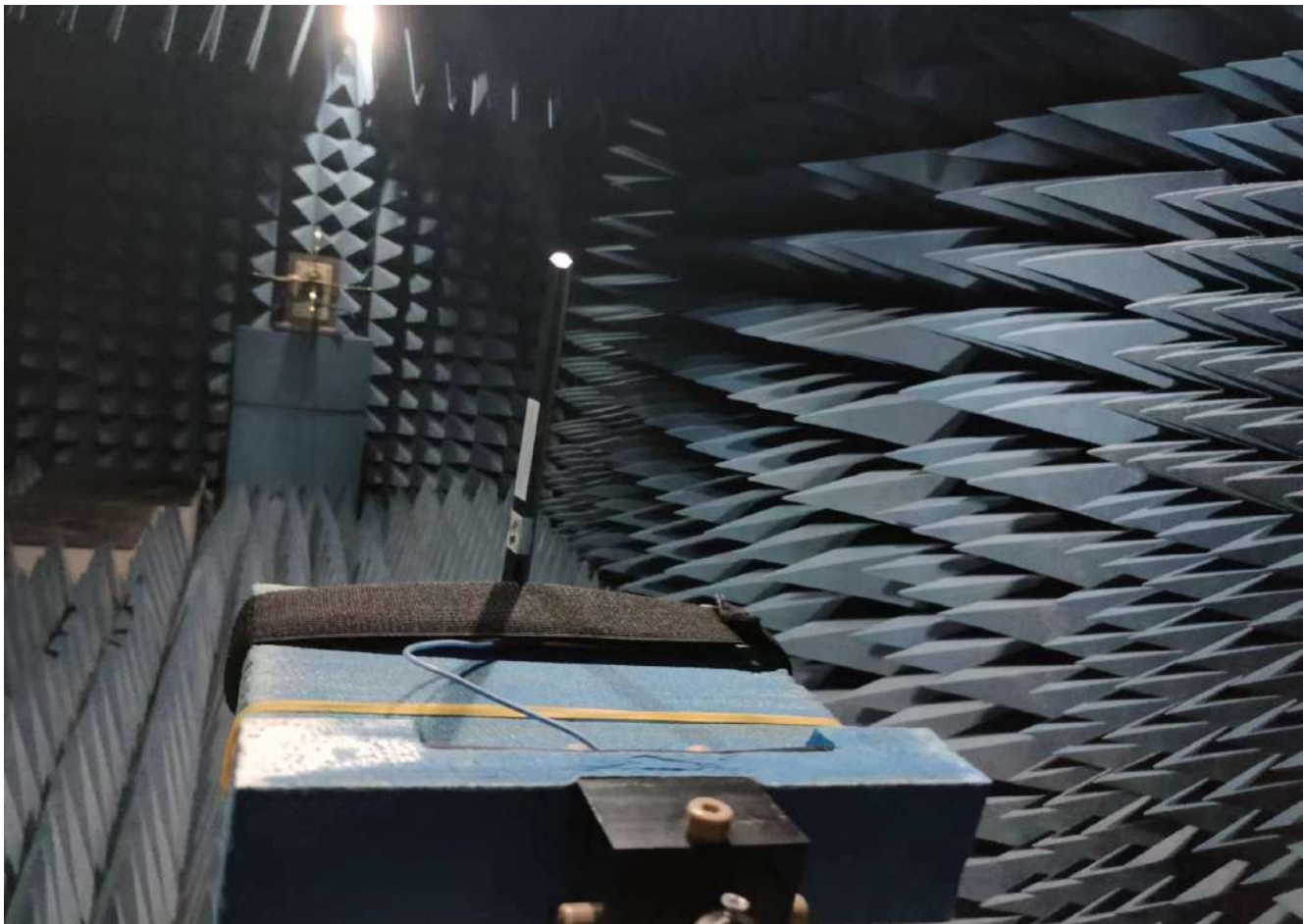
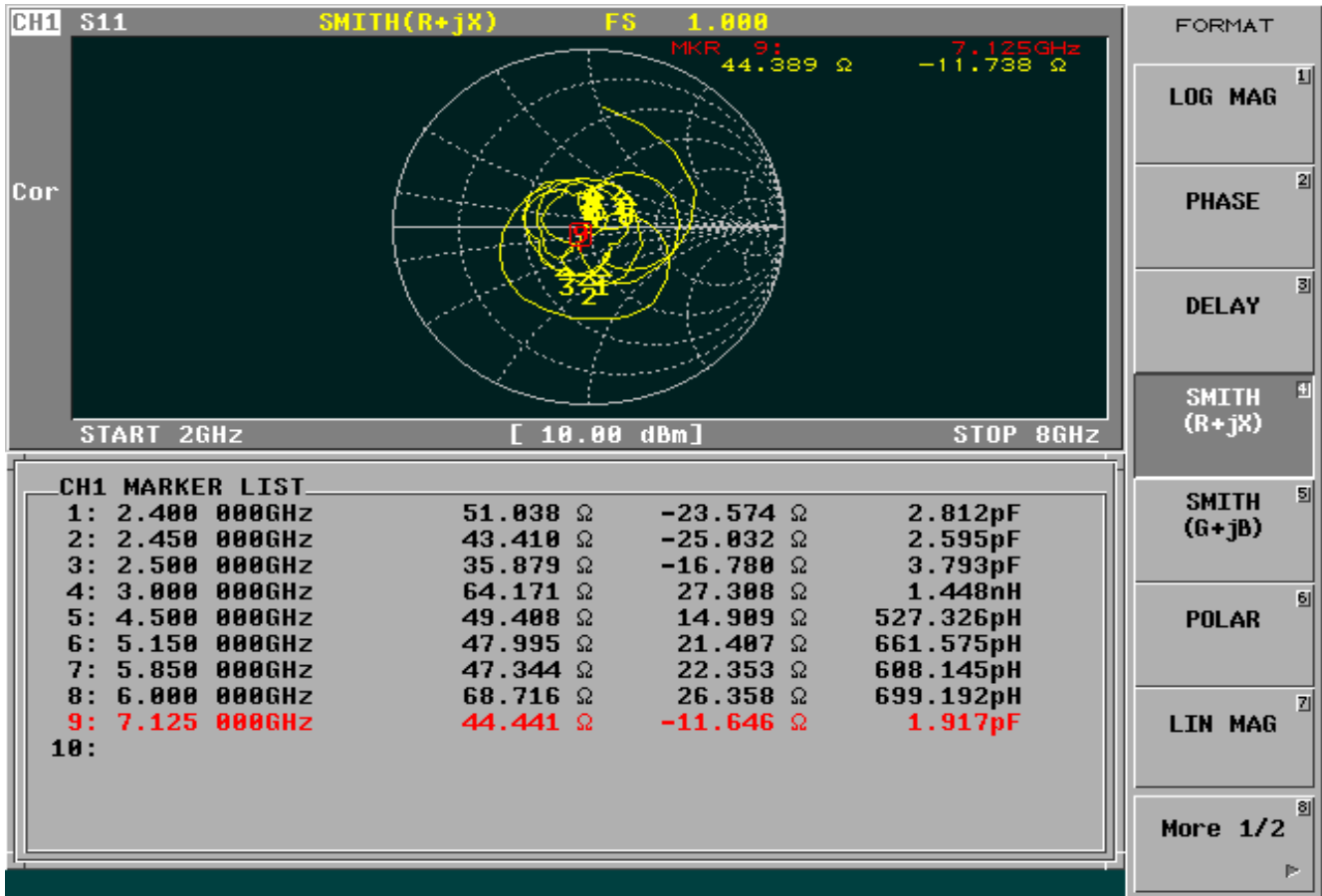


FORMAT

- SWR ¹
- REAL ²
- IMAG ³
- PHASE ⁴
-∞ , +∞
- LOG MAG & PHASE ⁵
- LOG MAG & DELAY ⁶
- LIN MAG & PHASE ⁷
- More 2/2 ⁸

CH1 MARKER LIST

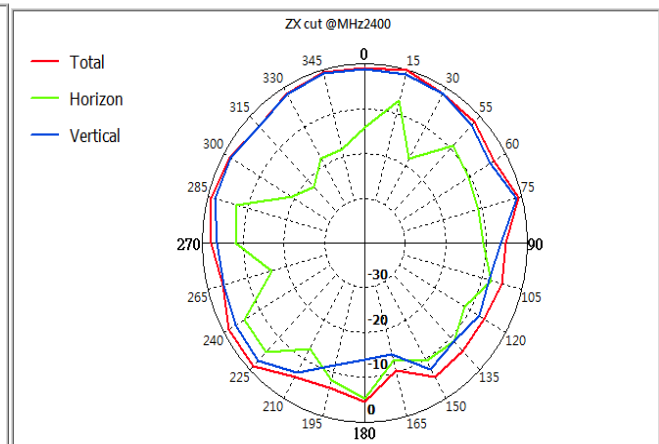
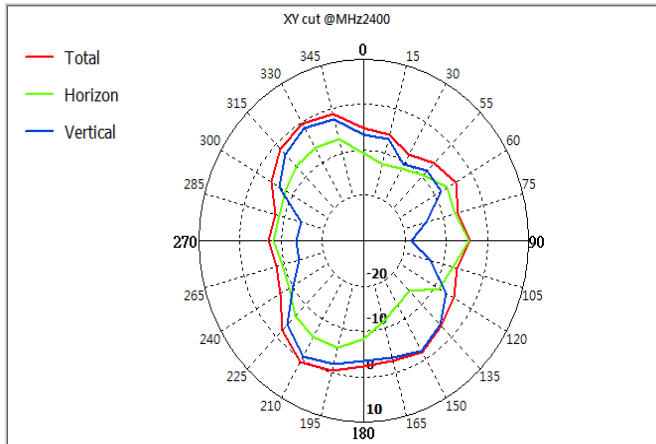
1:	2.400 000GHz	1.581
2:	2.450 000GHz	1.725
3:	2.500 000GHz	1.689
4:	3.000 000GHz	1.721
5:	4.500 000GHz	1.347
6:	5.150 000GHz	1.552
7:	5.850 000GHz	1.570
8:	6.000 000GHz	1.726
9:	7.125 000GHz	1.317
10:		

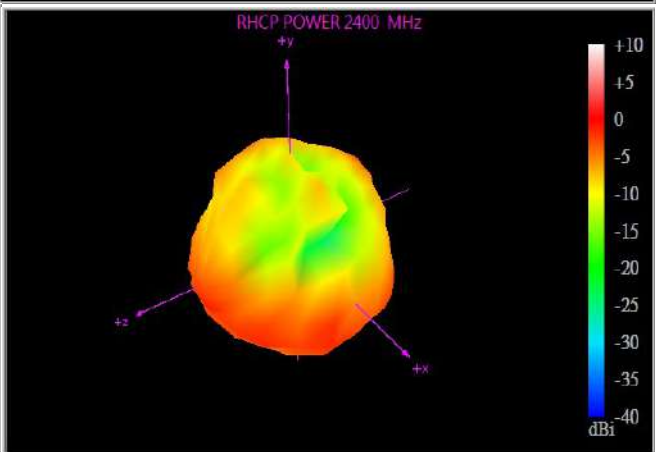
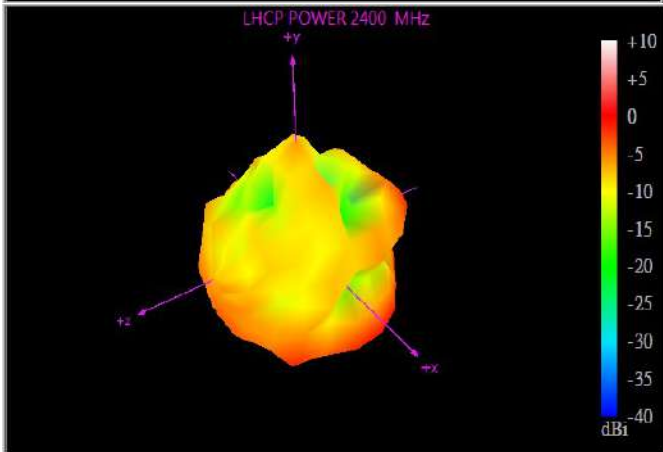
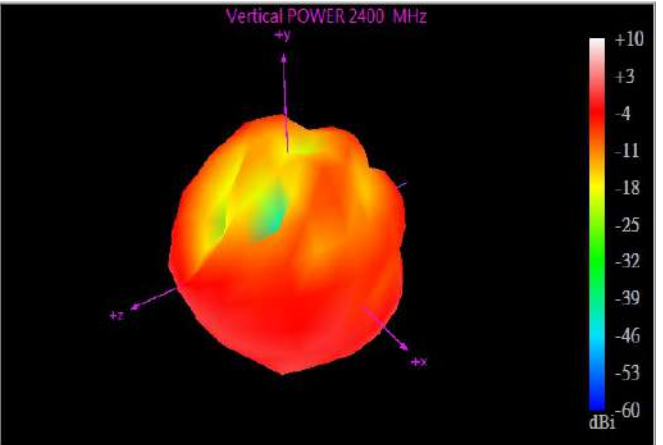
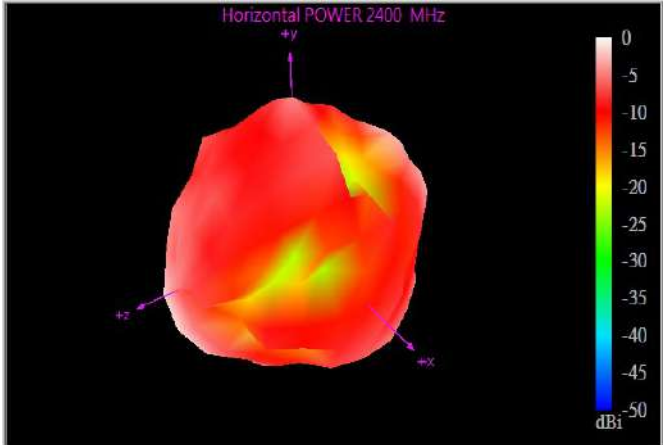
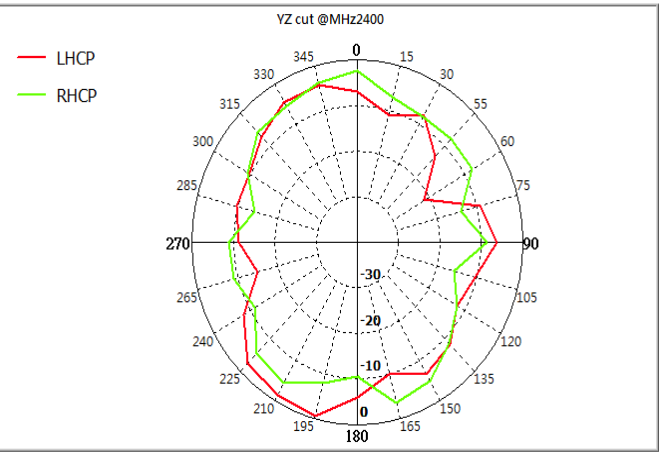
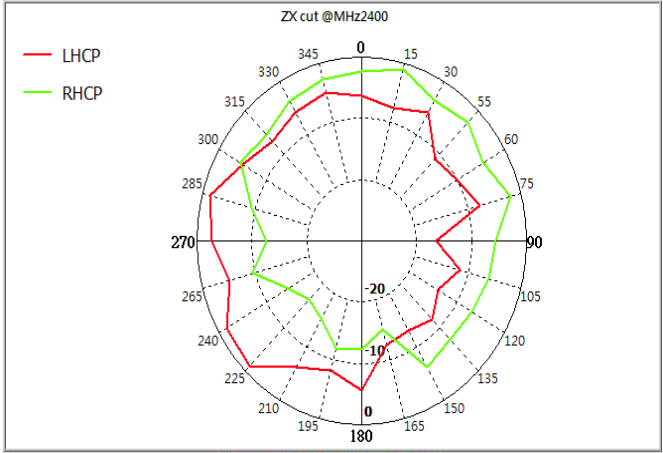
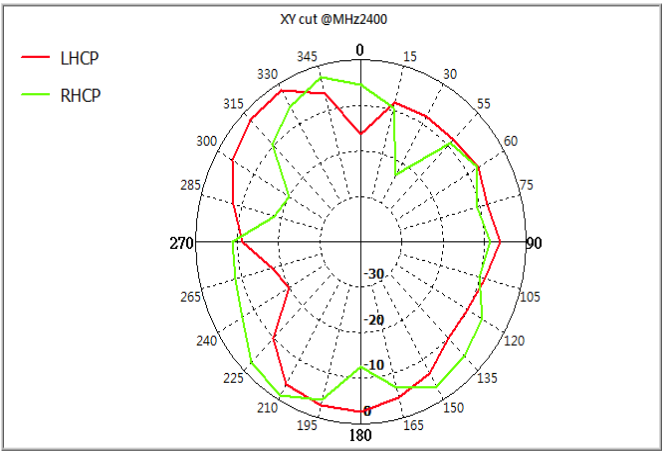
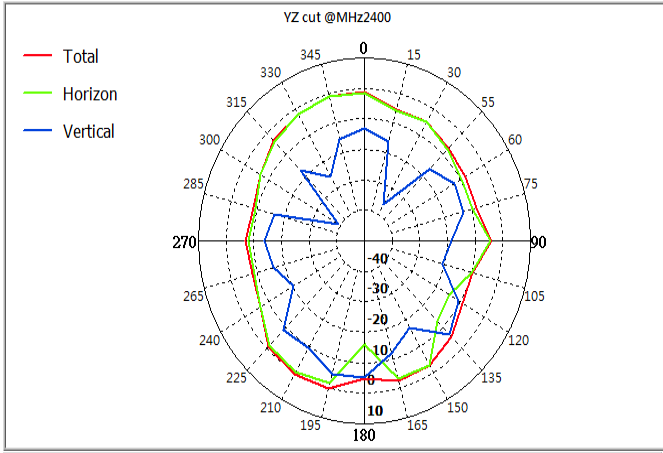


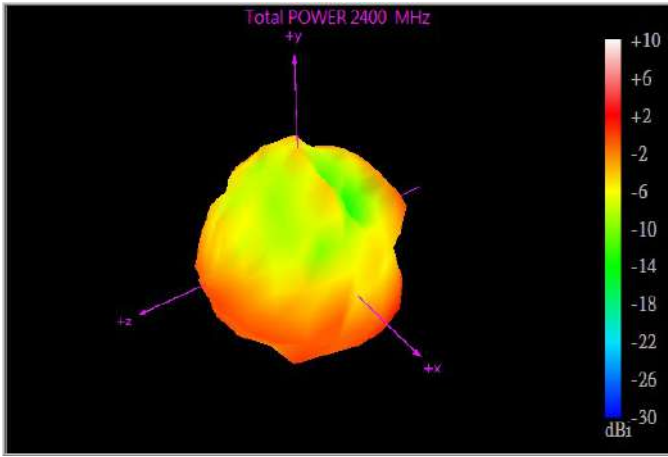
3D Total

Frequency (MHz)	Upper Hem. PRP (dBm)	Lower HEM. PRP (dBm)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Tot. Rad.Pwr. (dBm)
2350 MHz	-6.70	-5.80	-3.21	47.71	2.97	-3.21
2400 MHz	-6.82	-5.78	-3.26	47.25	2.69	-3.26
2450 MHz	-6.34	-5.17	-2.71	53.62	3.74	-2.71
2500 MHz	-7.16	-5.71	-3.36	46.10	2.88	-3.36
2600 MHz	-6.31	-5.08	-2.64	54.45	2.41	-2.64
3300 MHz	-6.95	-5.68	-3.26	47.24	2.50	-3.26
3400 MHz	-7.02	-6.01	-3.47	44.95	3.69	-3.47
3600 MHz	-5.63	-4.48	-2.01	62.97	5.98	-2.01
3800 MHz	-7.88	-6.52	-4.13	38.59	4.60	-4.13
4000 MHz	-4.82	-3.17	-2.91	51.17	7.31	-2.91
4200 MHz	-5.34	-3.83	-1.51	70.70	7.48	-1.51
4400 MHz	-6.90	-5.26	-2.99	50.23	5.16	-2.99
4600 MHz	-7.91	-6.64	-4.22	37.84	3.43	-4.22
4900 MHz	-7.03	-5.66	-3.28	46.97	5.05	-3.28
5100 MHz	-11.19	-10.63	-7.89	16.25	-0.03	-7.89
5300 MHz	-10.12	-9.89	-6.99	19.99	0.87	-6.99
5600 MHz	-9.38	-9.76	-6.55	22.12	0.45	-6.55
5700 MHz	-8.87	-9.03	-5.94	25.45	3.19	-5.94
5900 MHz	-9.24	-9.21	-6.21	23.93	2.81	-6.21
6000 MHz	-10.29	-10.21	-7.24	18.90	3.06	-7.24
6100 MHz	-6.34	-6.41	-3.37	46.06	6.46	-3.37
6300 MHz	-8.58	-8.72	-5.64	27.29	4.21	-5.64
6600 MHz	-9.53	-10.73	-7.08	19.58	3.30	-7.08
6800 MHz	-3.70	-3.89	-1.78	66.37	6.60	-1.78
7000 MHz	-9.19	-9.44	-6.30	23.42	2.87	-6.30
7125 MHz	-7.24	-7.00	-4.11	38.81	8.64	-4.11
7200 MHz	-1.39	-1.64	-2.50	56.23	8.70	-2.50

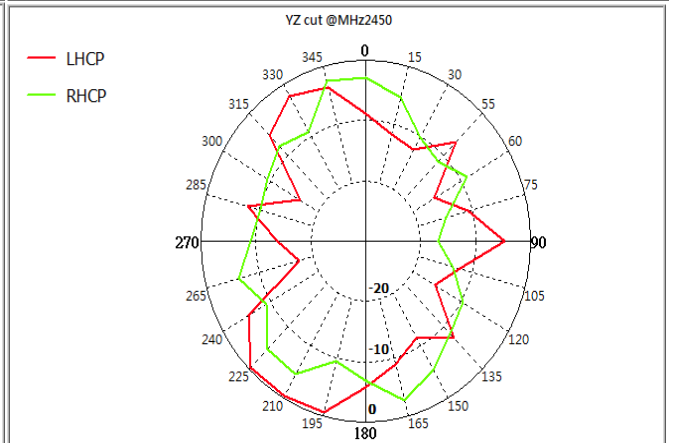
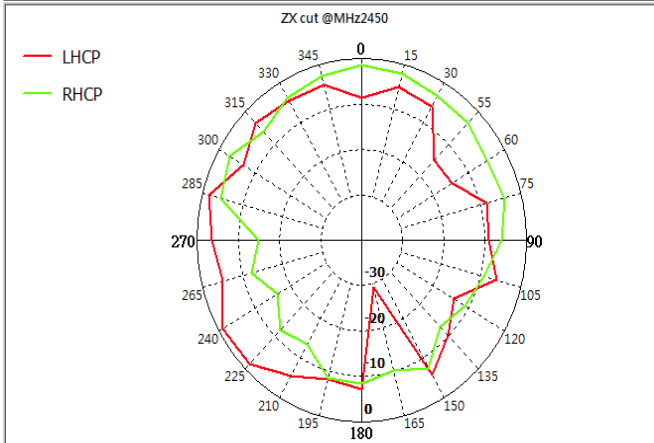
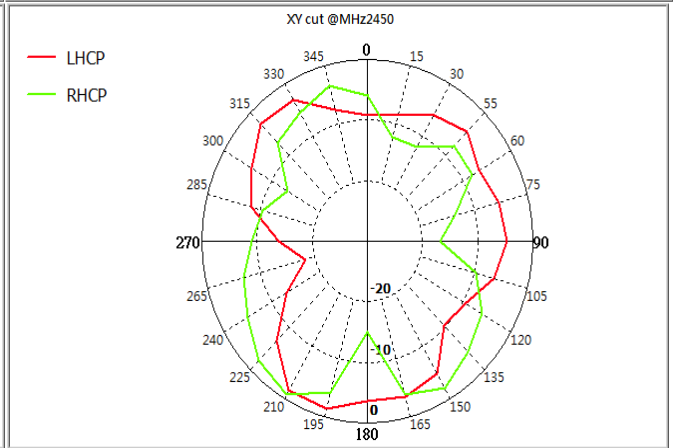
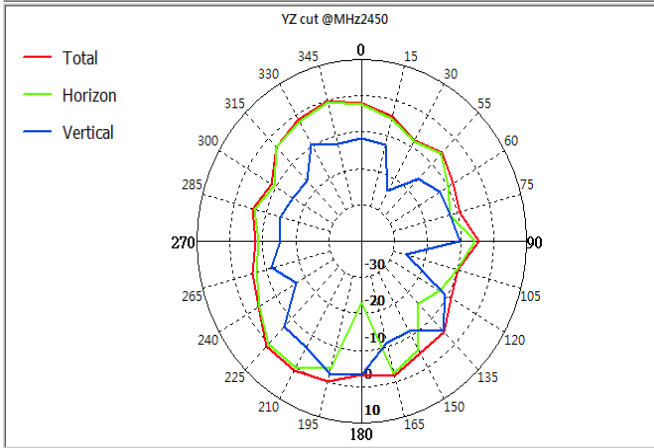
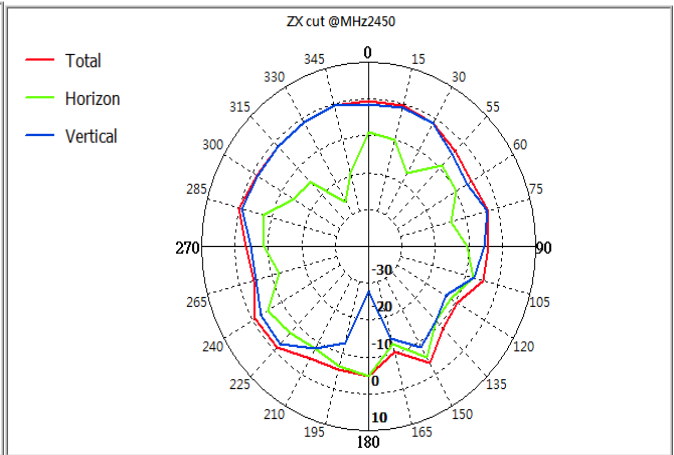
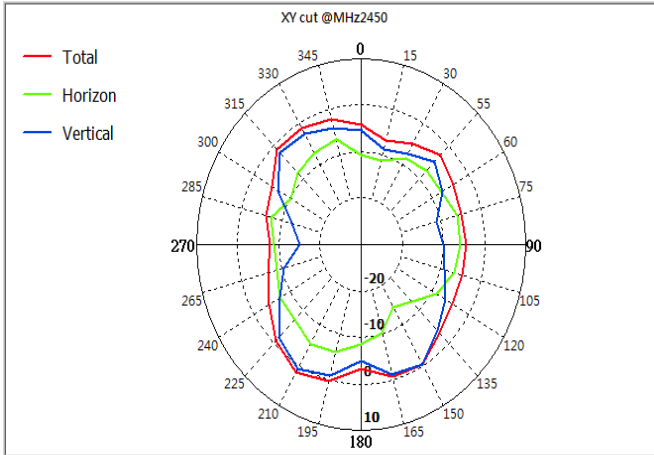
2400Mhz:

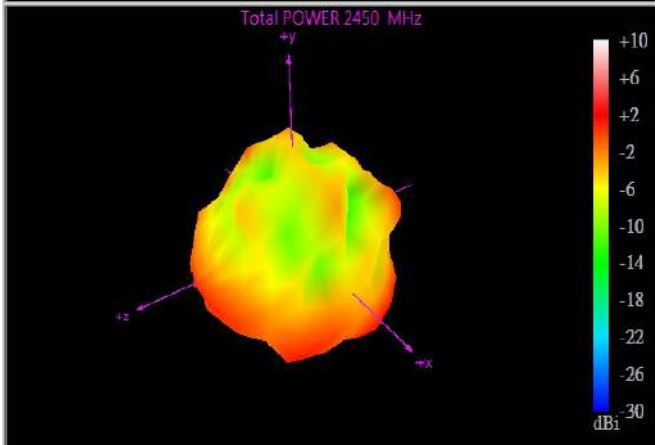
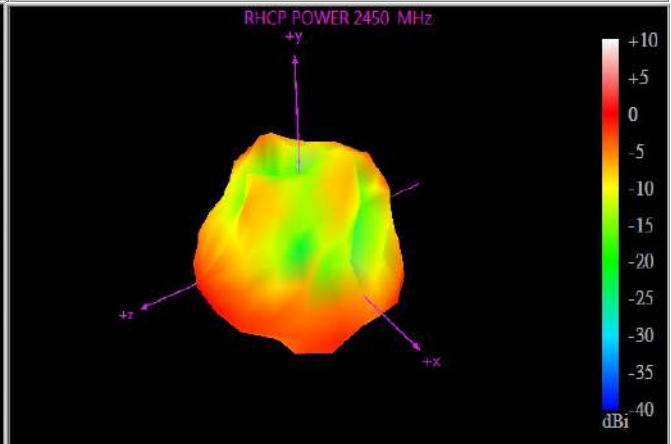
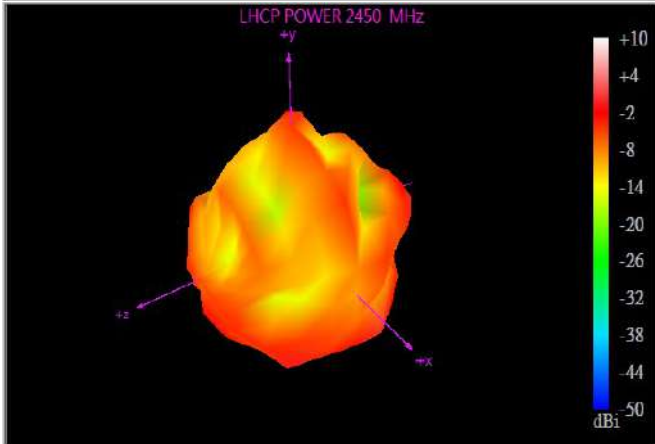
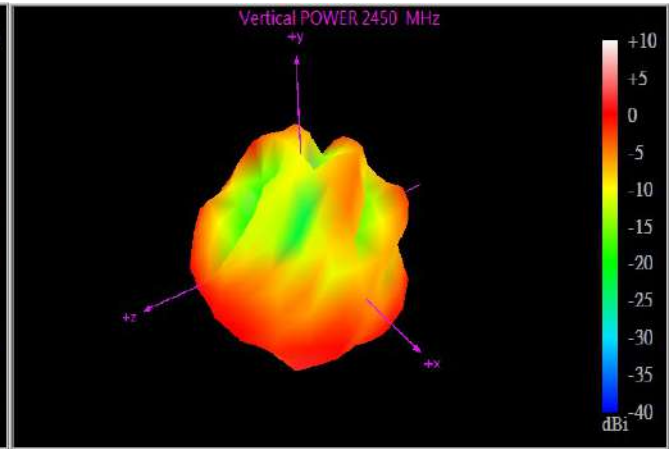
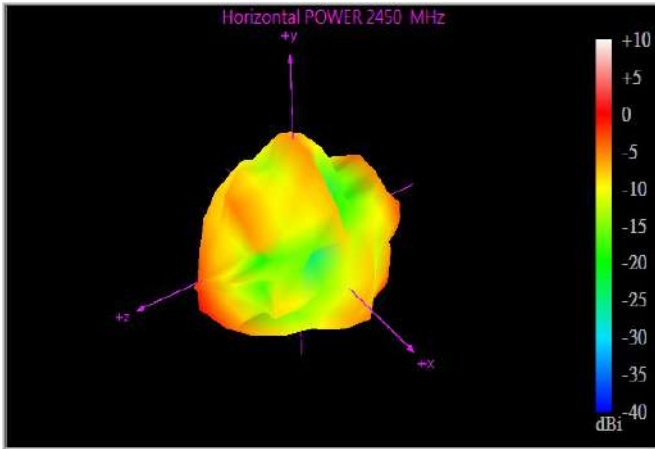




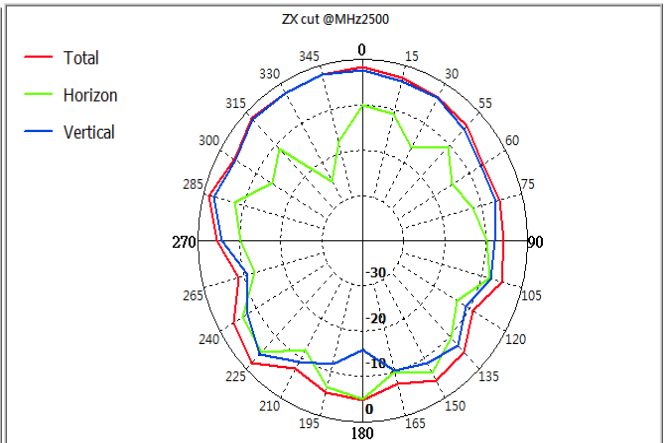
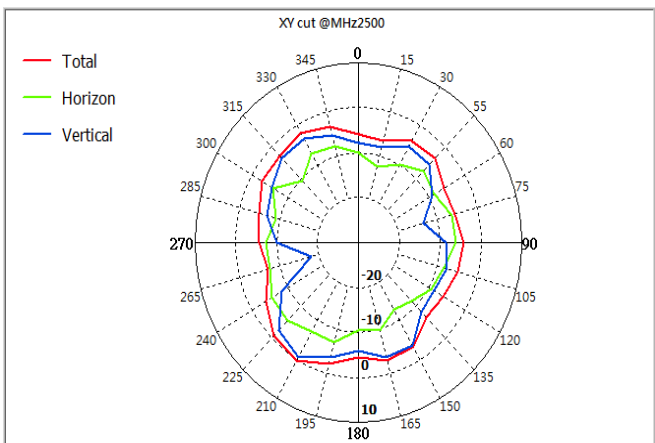


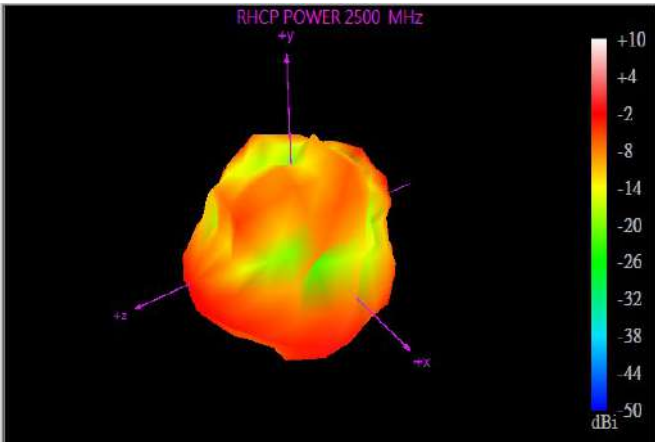
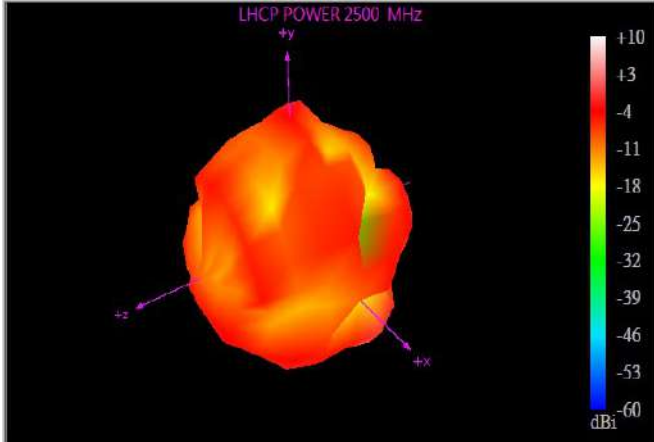
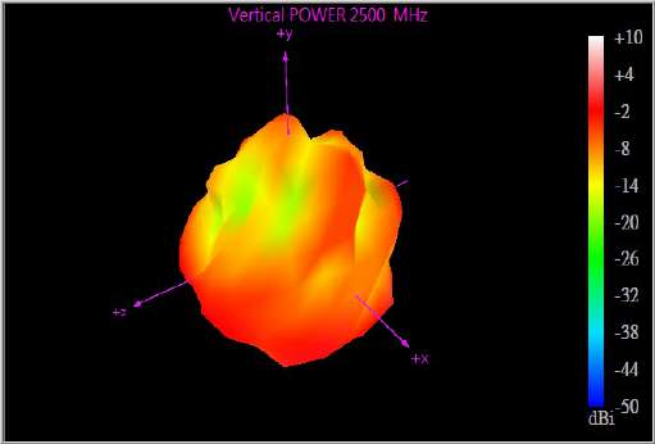
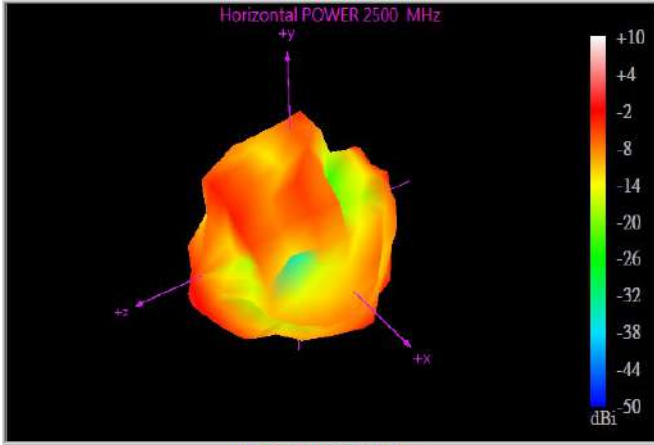
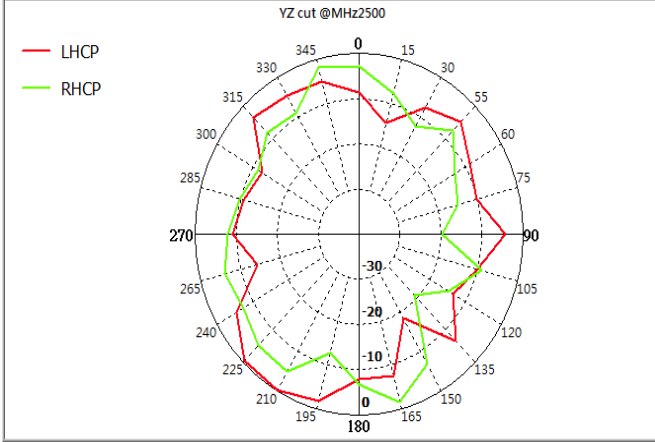
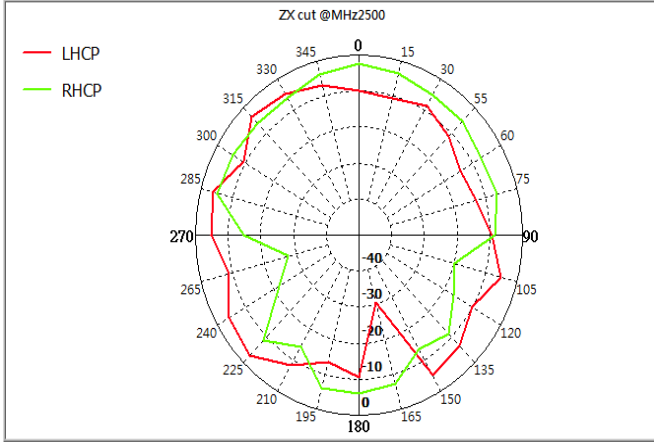
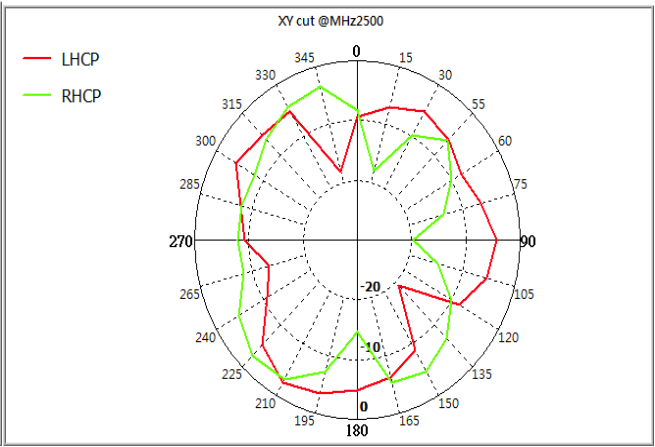
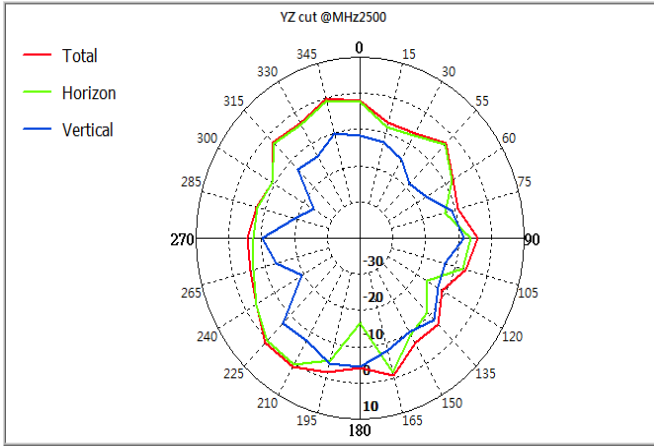
2450MHz:

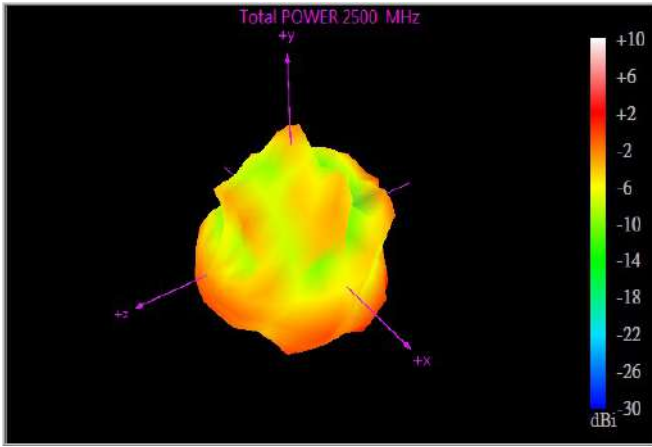




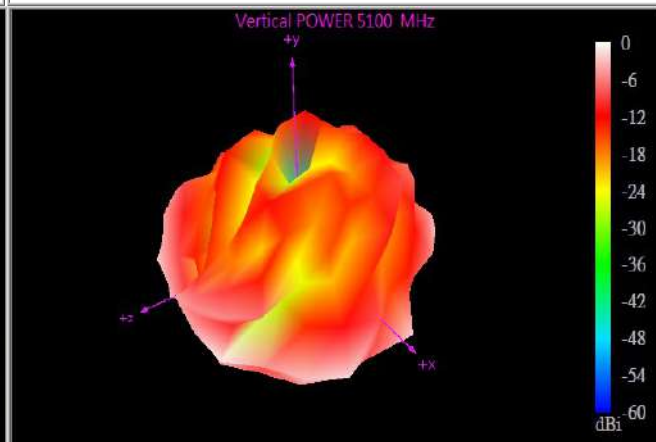
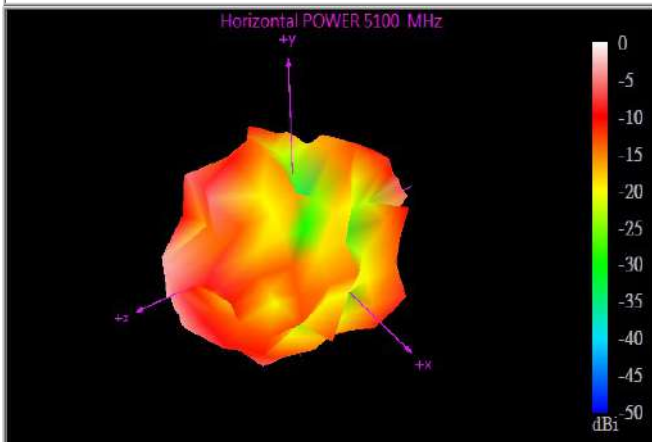
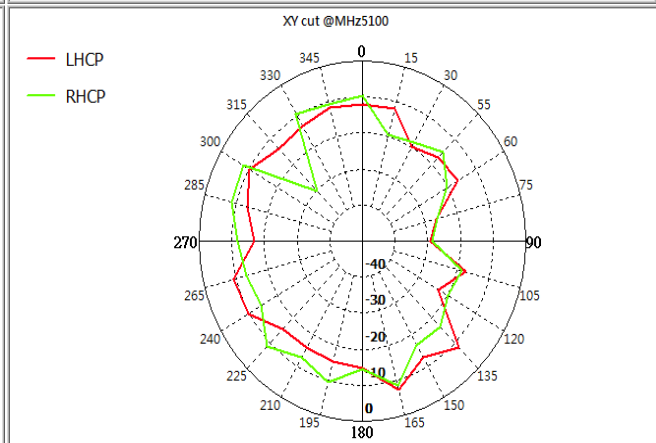
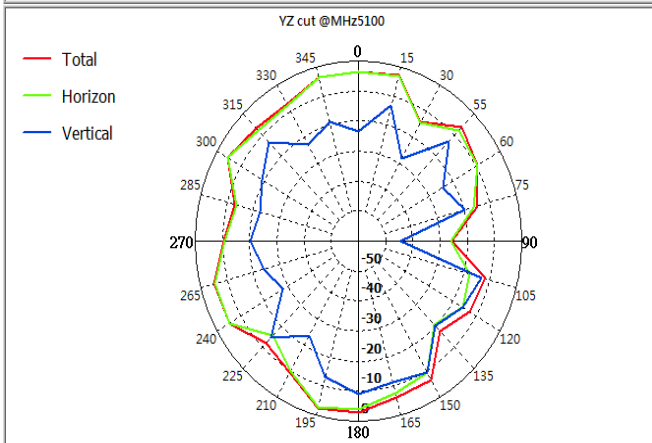
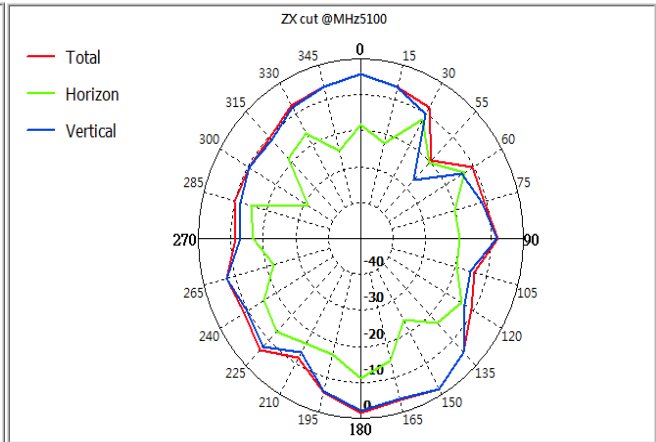
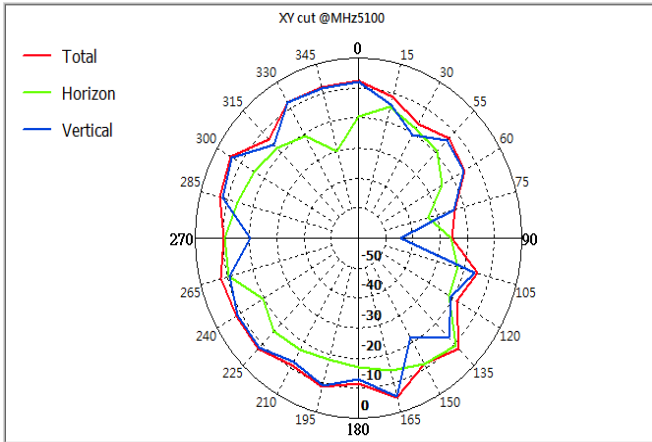
2500MHz:

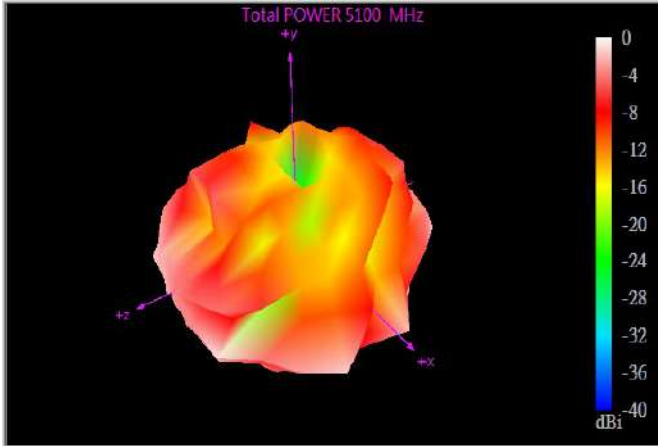
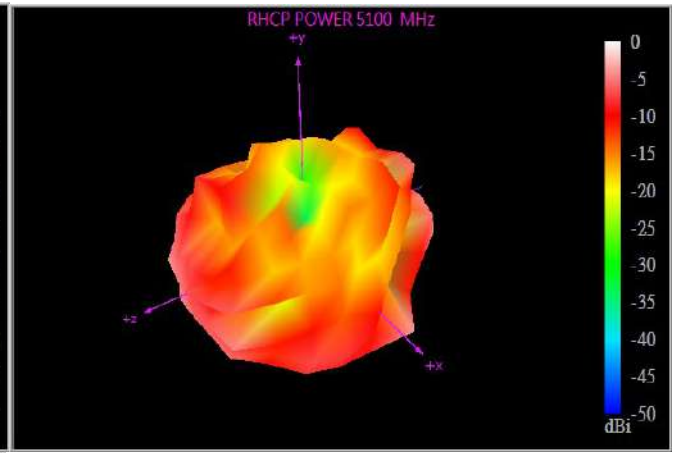
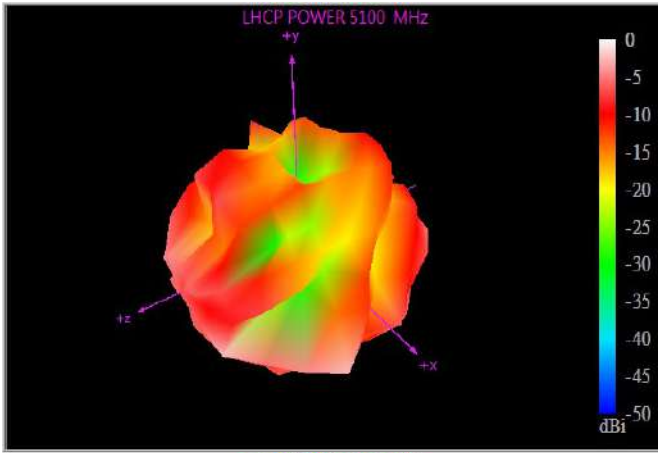




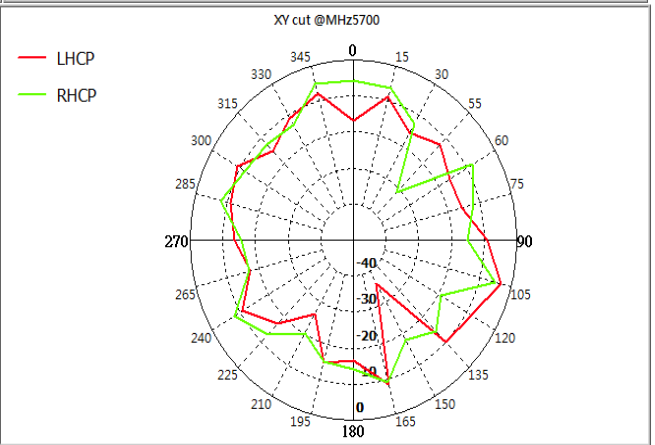
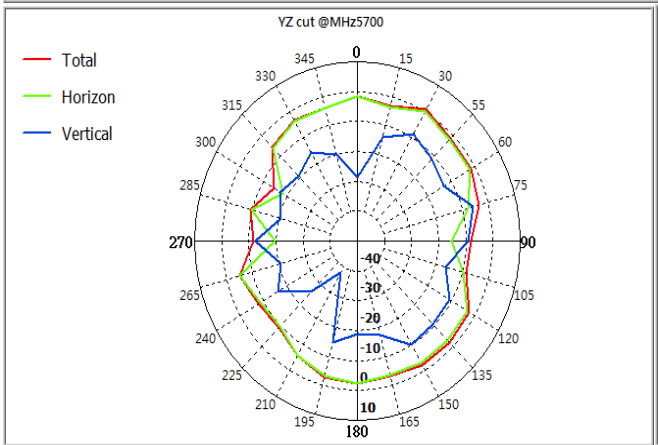
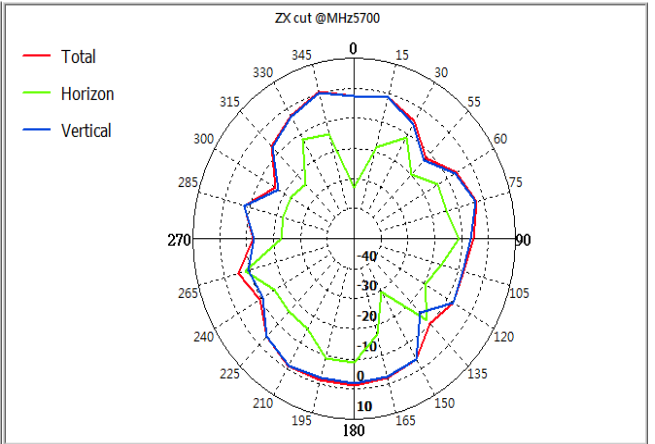
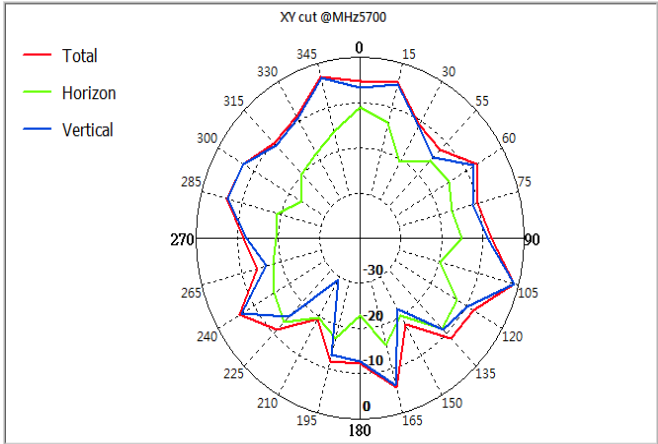


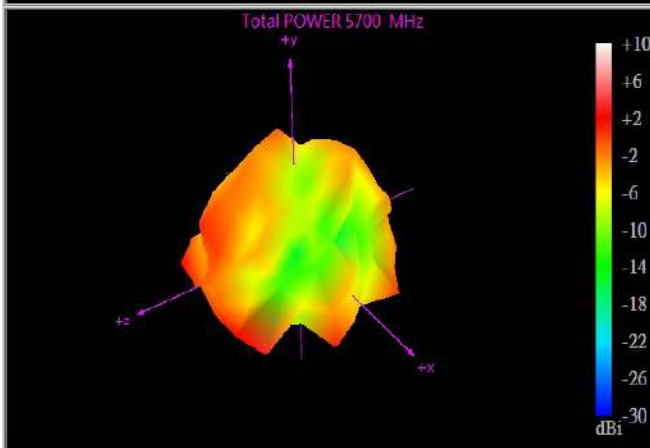
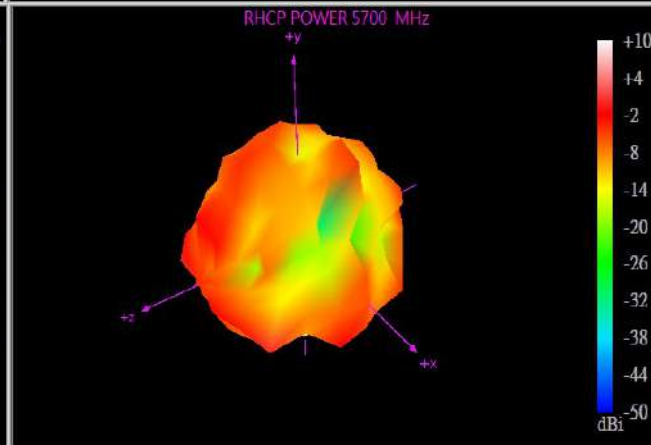
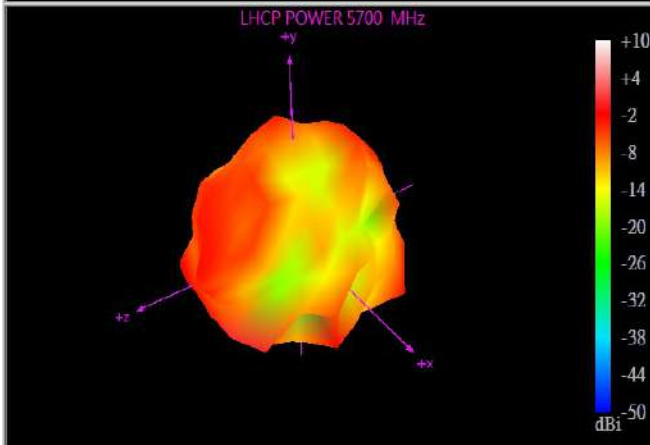
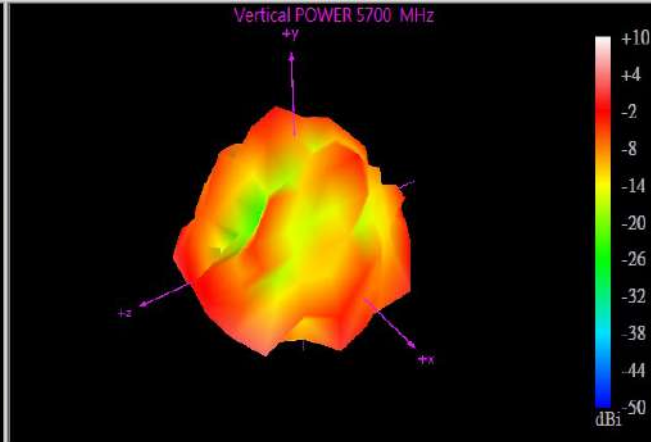
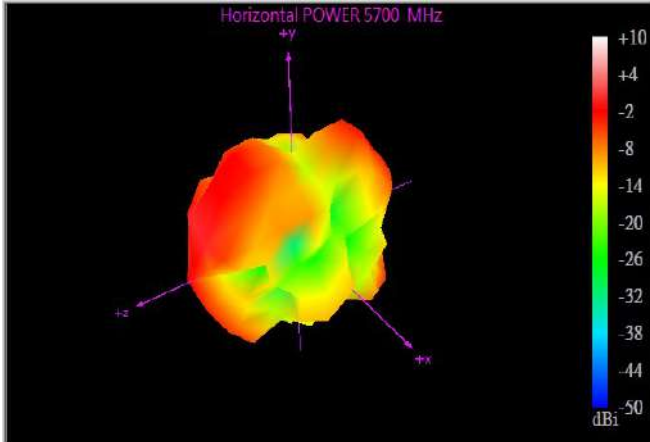
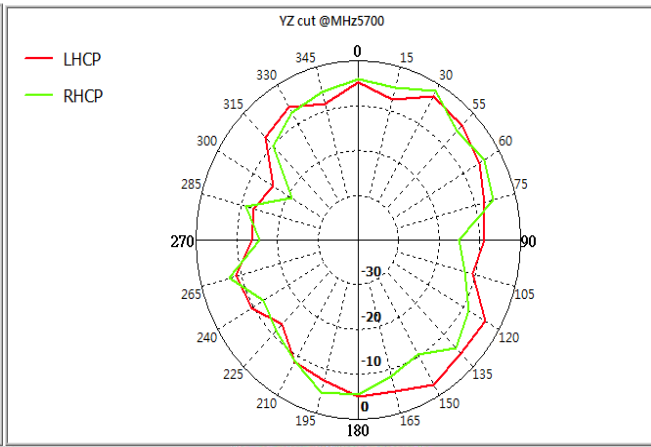
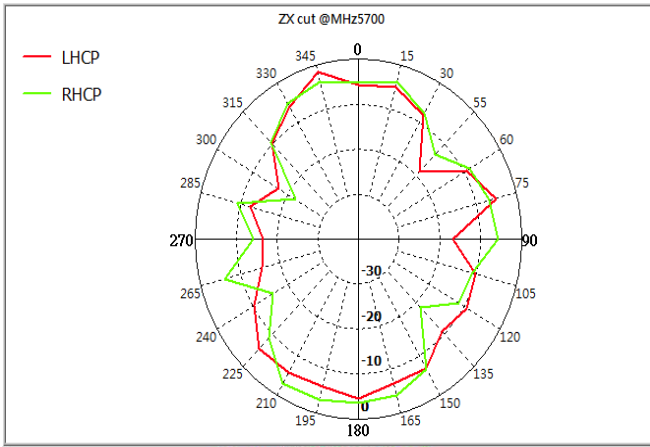
5100MHz:



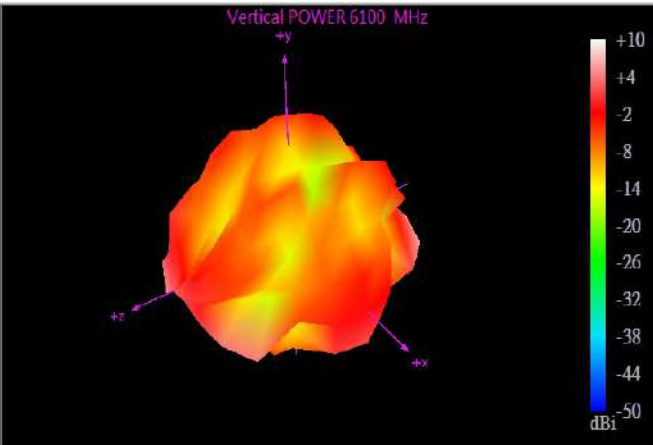
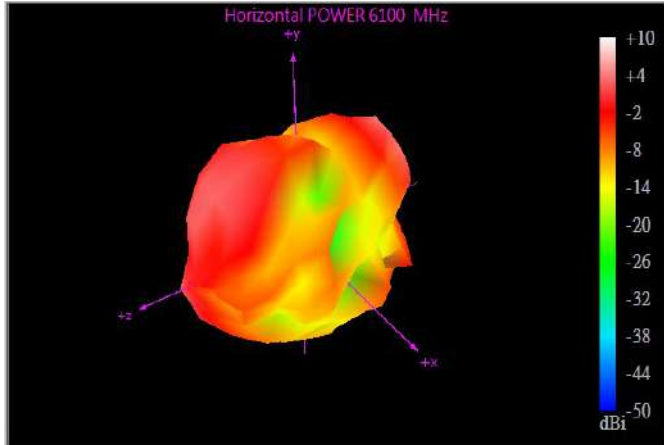
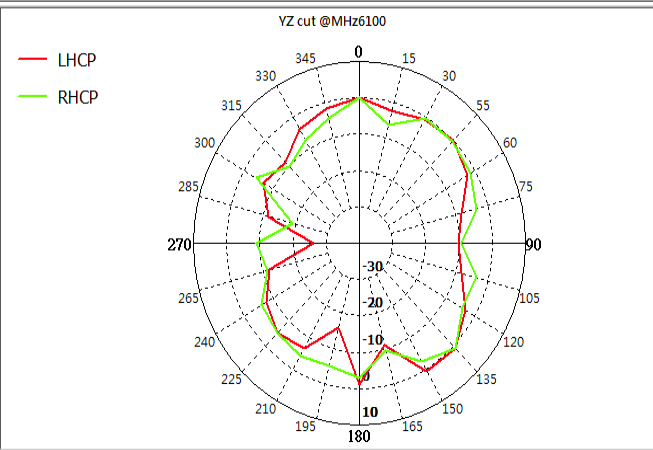
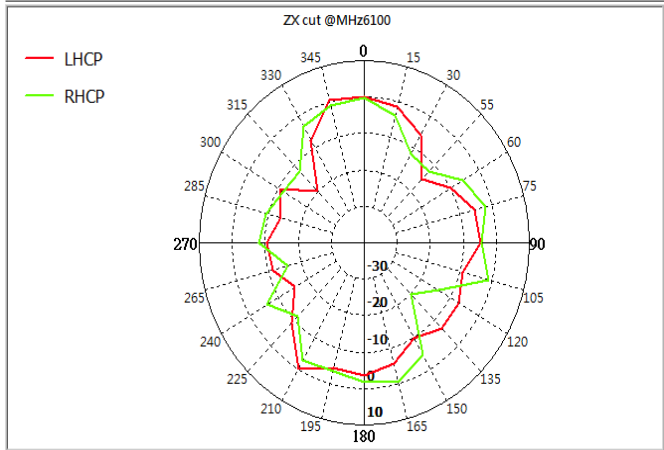
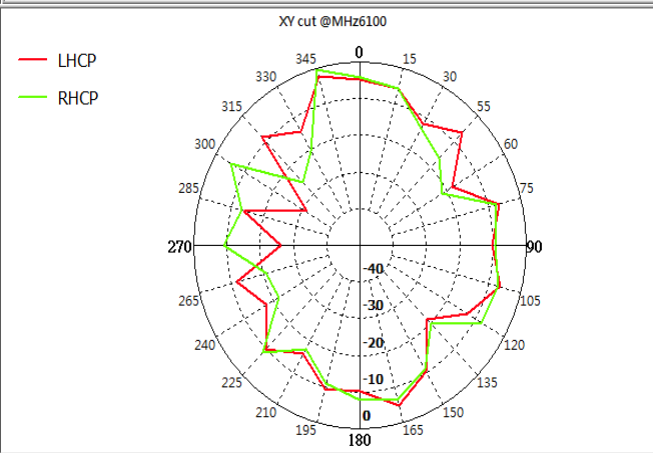
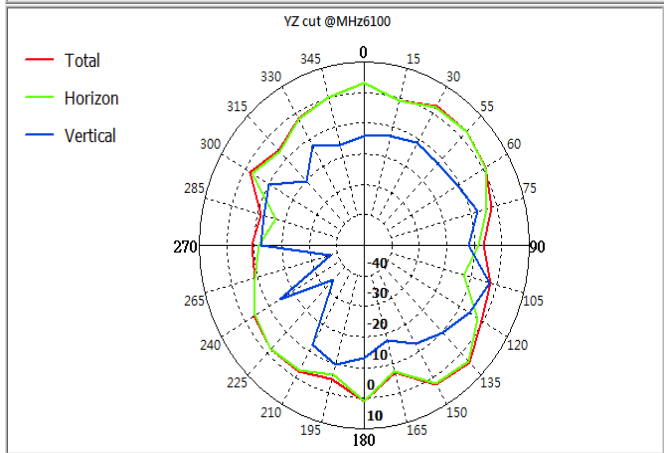
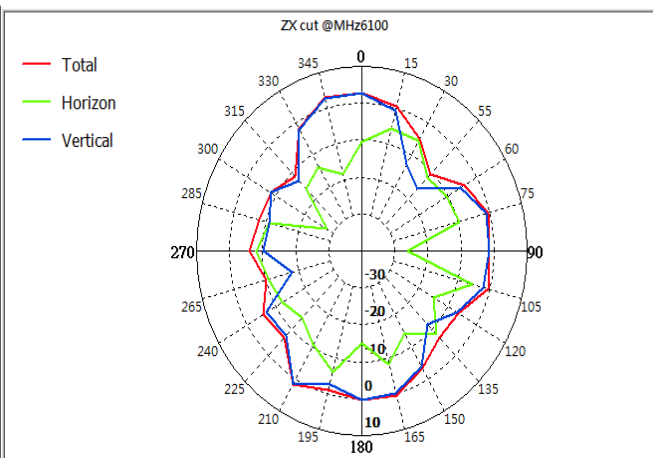
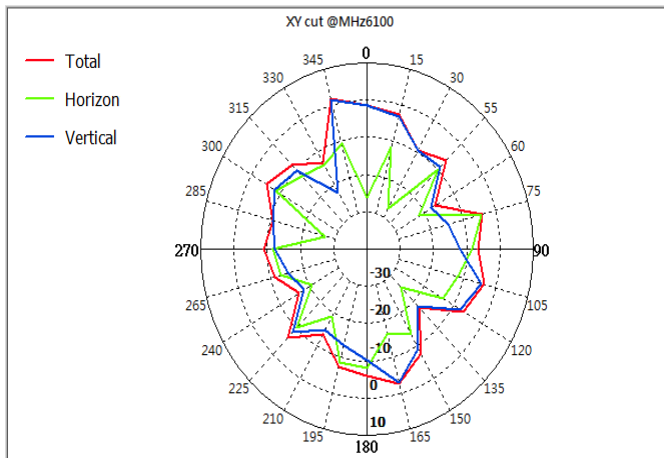


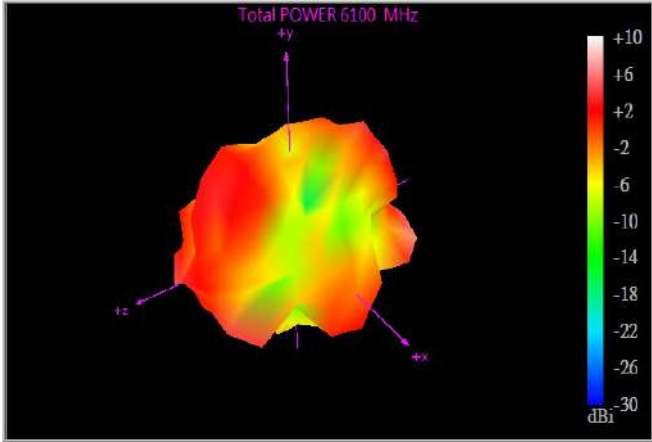
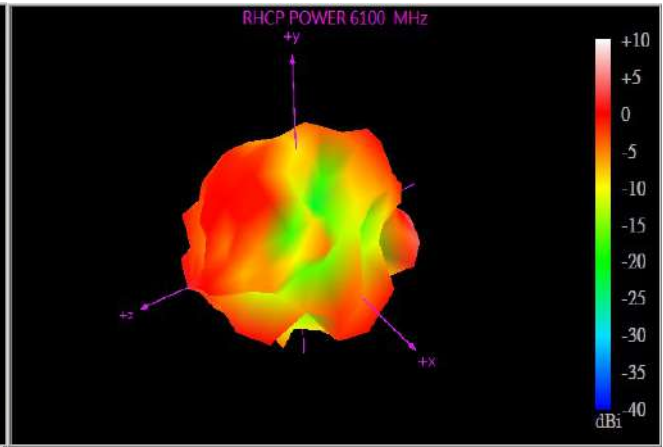
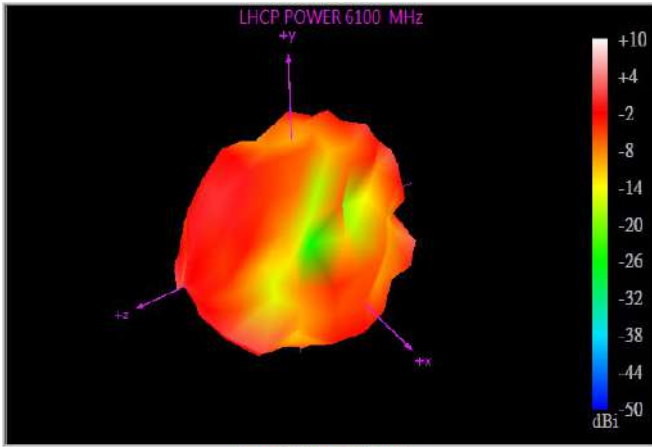
5700MHz:



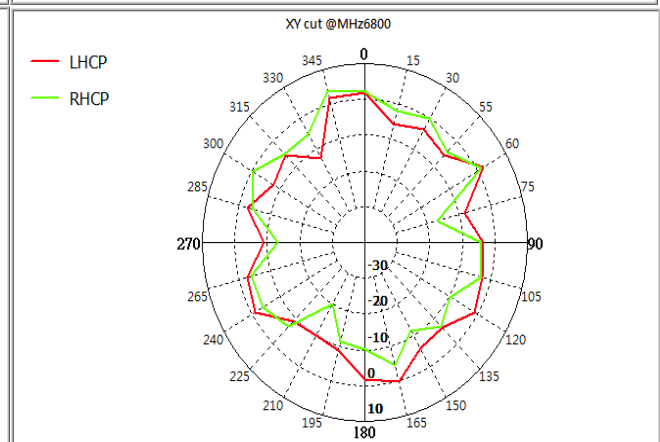
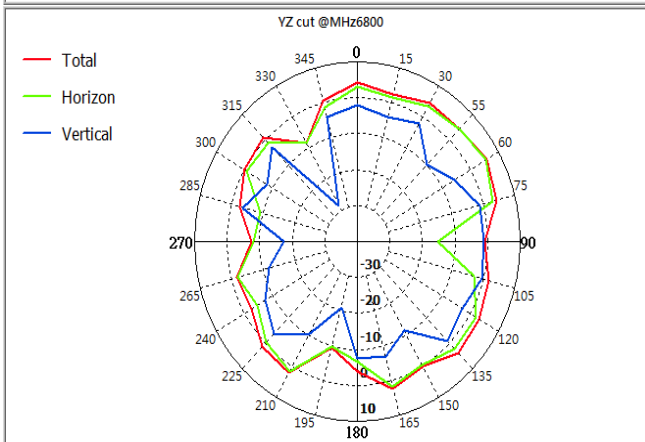
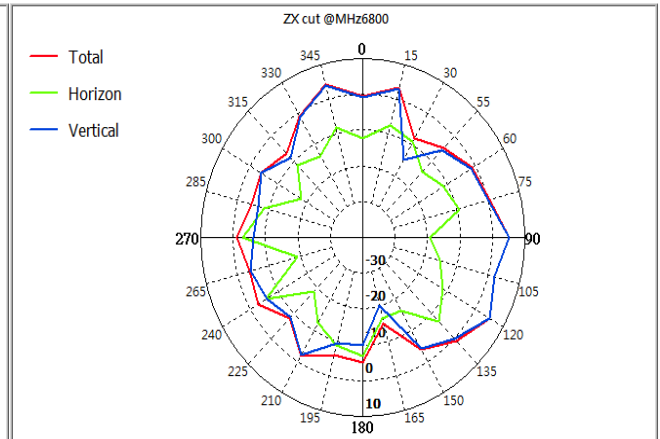
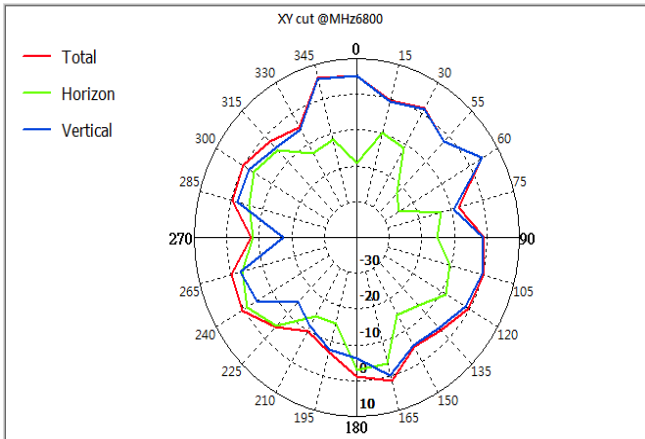


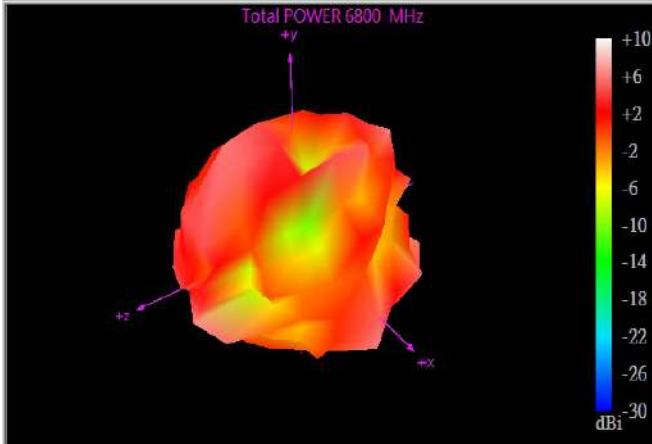
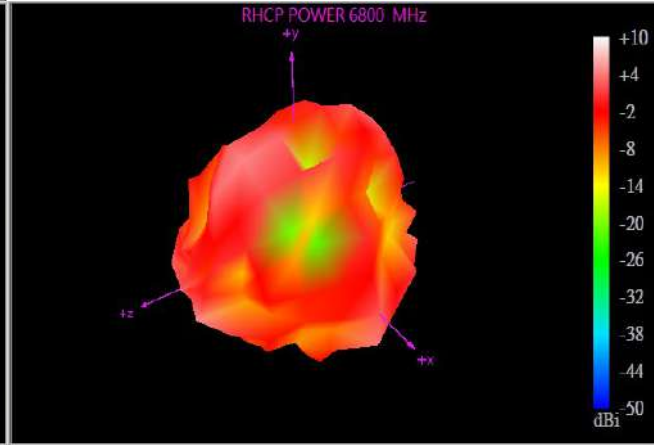
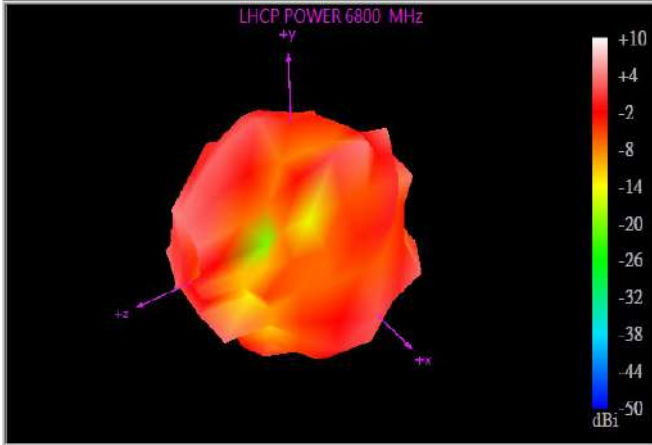
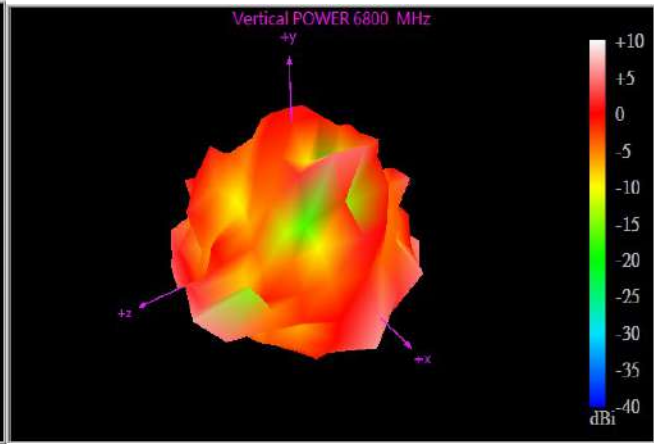
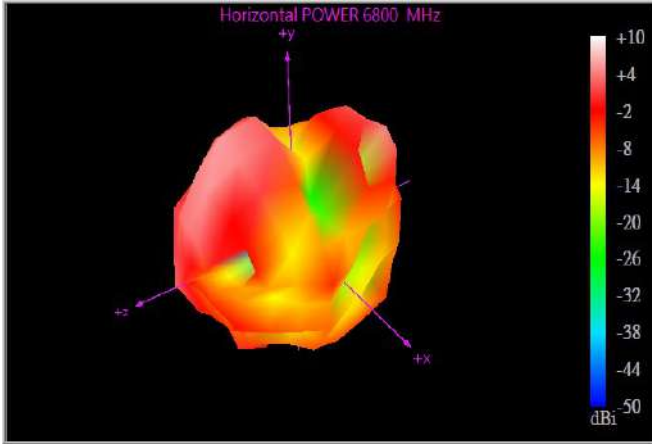
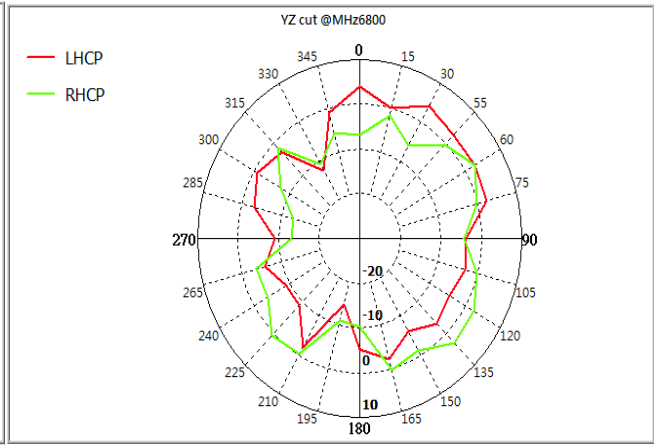
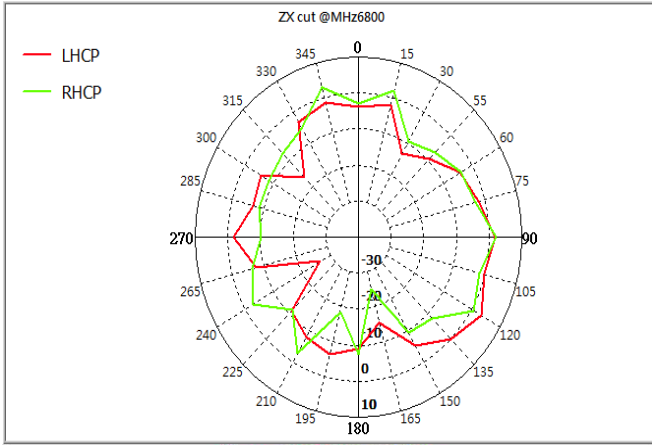
6100Mhz:





6800MHz:





7125Mhz:

