

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

MODEL: TH-2458Q



1. GENERAL DESCRIPTION

Model No
TH-2458Q-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

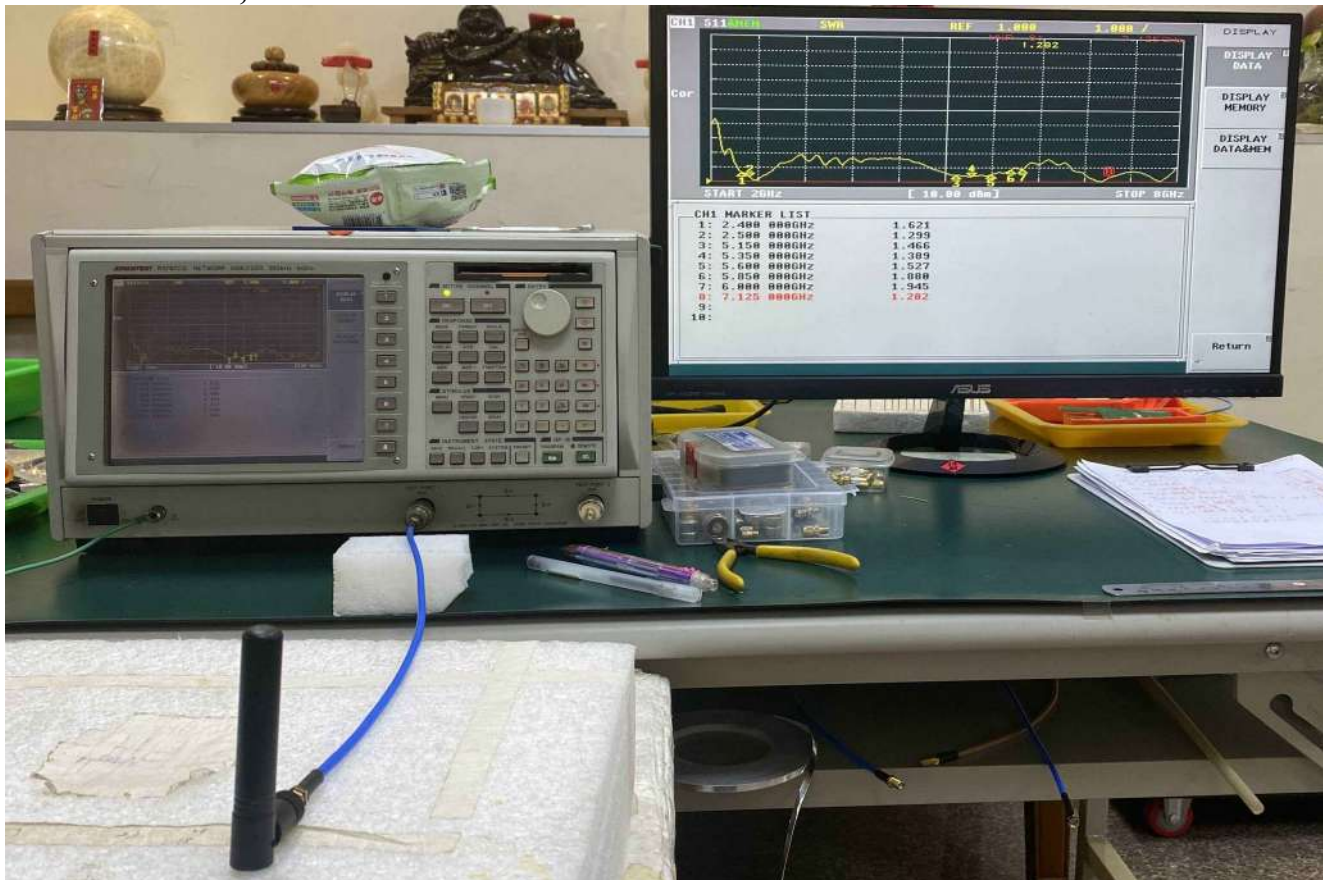
1.2 Mechanical Properties

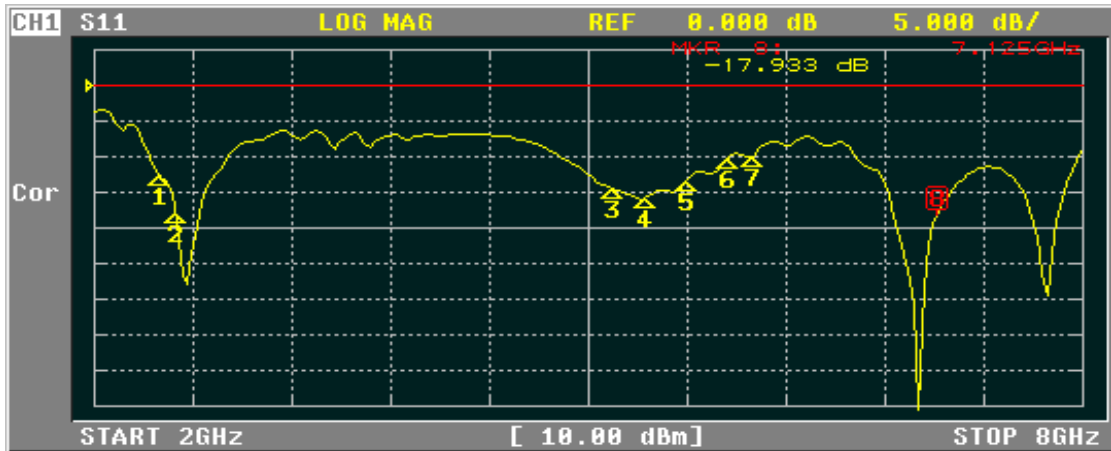
Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type
Connector Type	SMA(M) or RP-SMA(M)
Antenna Dimensions	OD12.5 x 102.2 mm ±3
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C

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

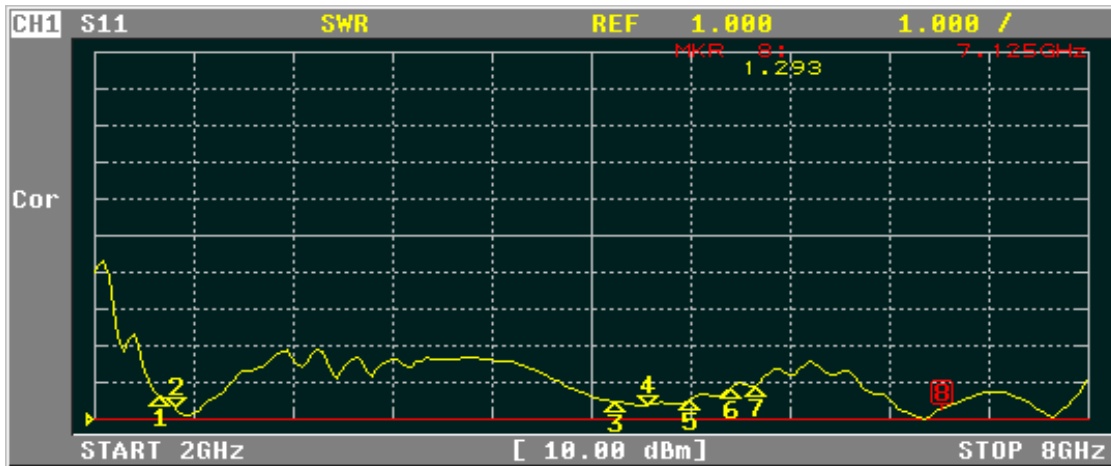
POLAR 6

LIN MAG 7

More 1/2 8

CH1 MARKER LIST

1:	2.400 000GHz	-12.662 dB
2:	2.500 000GHz	-17.890 dB
3:	5.150 000GHz	-14.448 dB
4:	5.350 000GHz	-15.793 dB
5:	5.600 000GHz	-13.471 dB
6:	5.850 000GHz	-10.264 dB
7:	6.000 000GHz	-9.912 dB
8:	7.125 000GHz	-17.933 dB
9:		
10:		



FORMAT

SWR 1

REAL 2

IMAG 3

PHASE 4
-∞, +∞

LOG MAG & PHASE 5

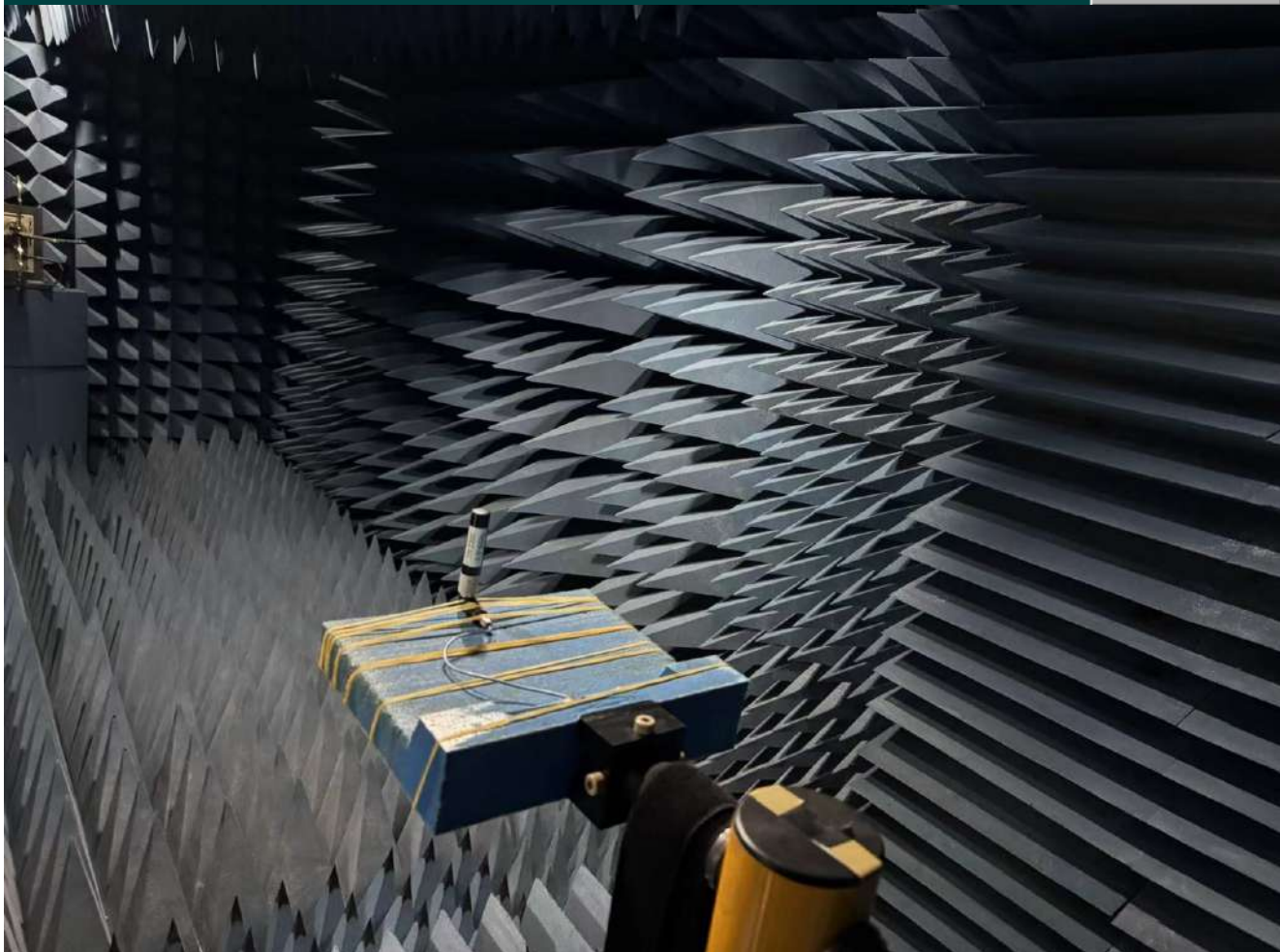
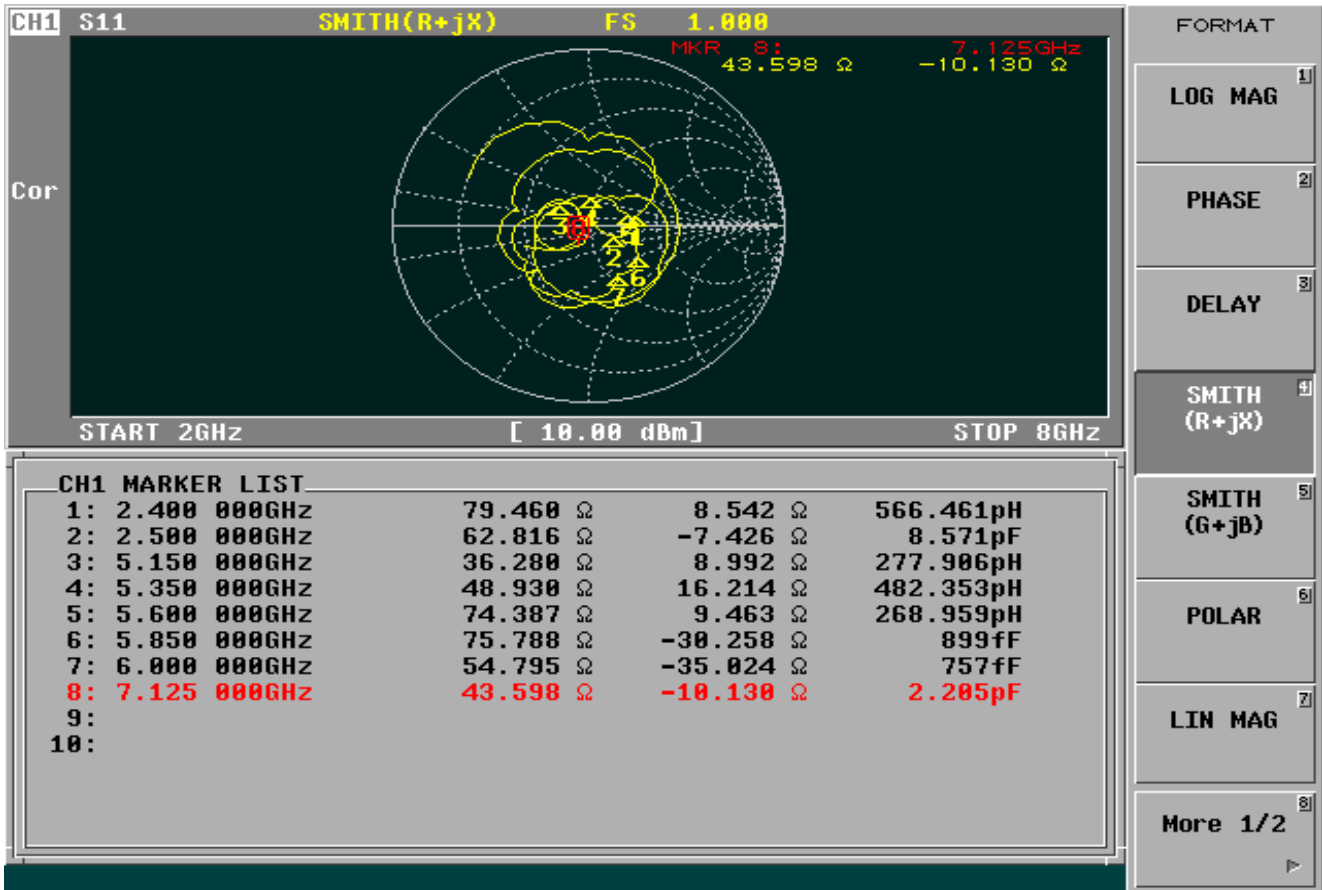
LOG MAG & DELAY 6

LIN MAG & PHASE 7

More 2/2 8

CH1 MARKER LIST

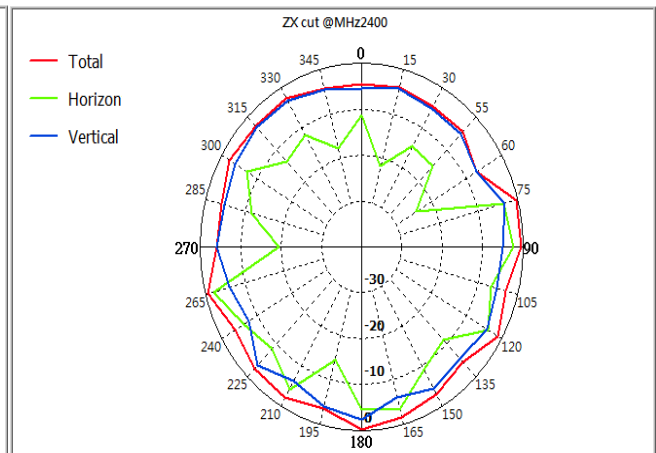
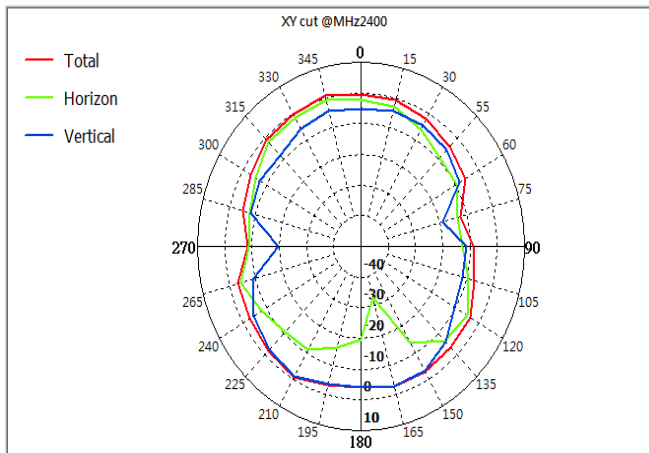
1:	2.400 000GHz	1.608
2:	2.500 000GHz	1.295
3:	5.150 000GHz	1.467
4:	5.350 000GHz	1.398
5:	5.600 000GHz	1.542
6:	5.850 000GHz	1.887
7:	6.000 000GHz	1.938
8:	7.125 000GHz	1.293
9:		
10:		

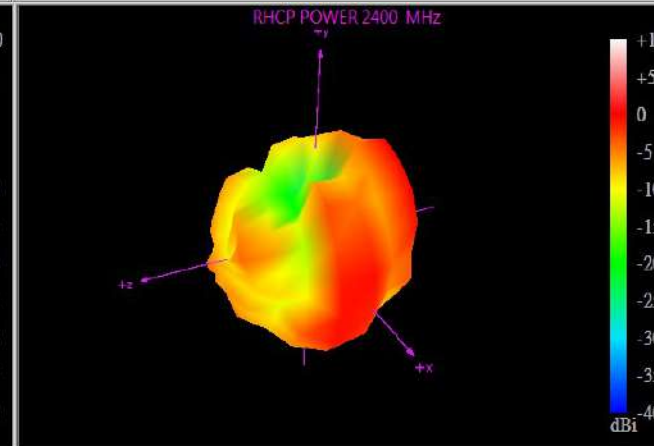
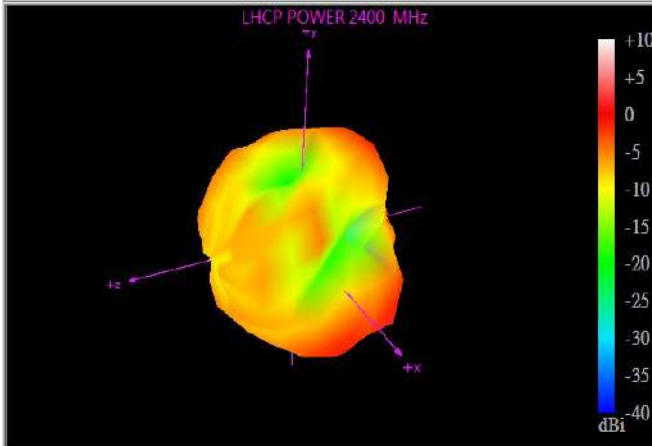
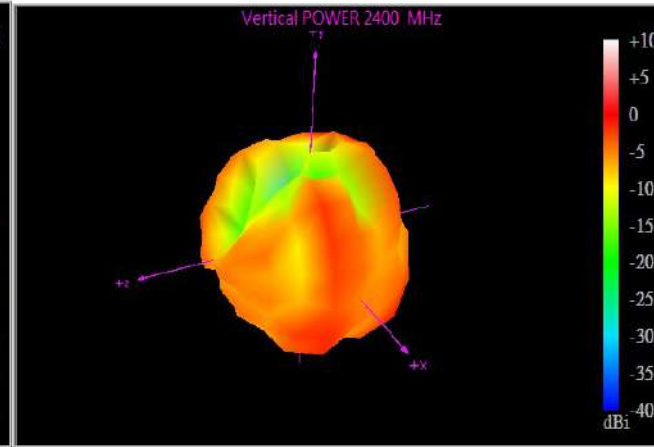
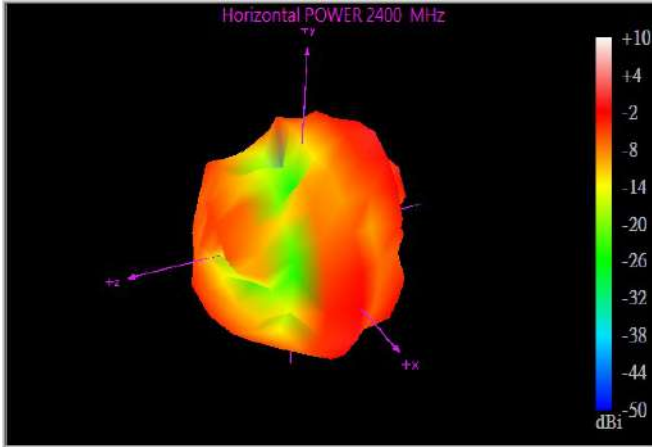
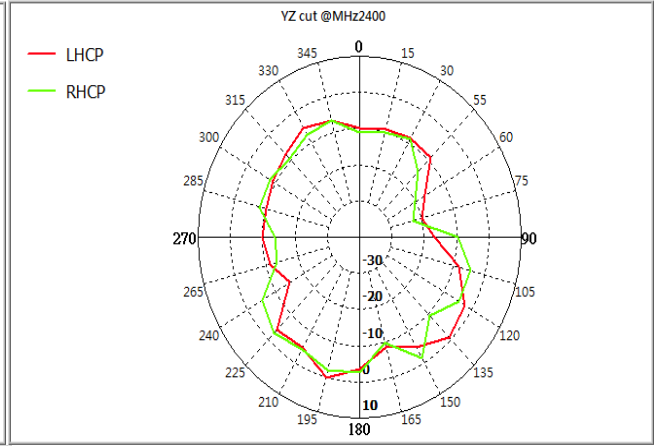
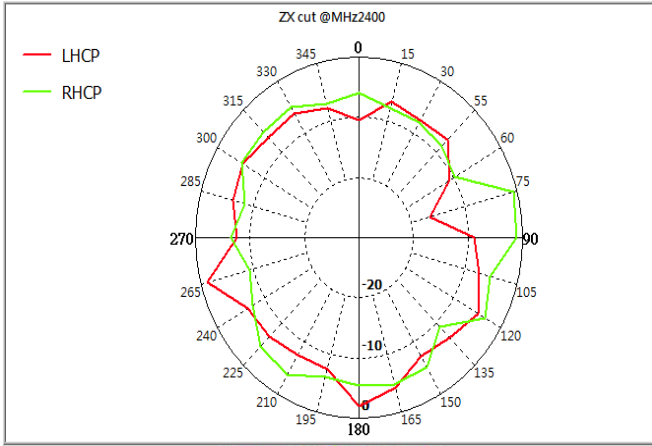
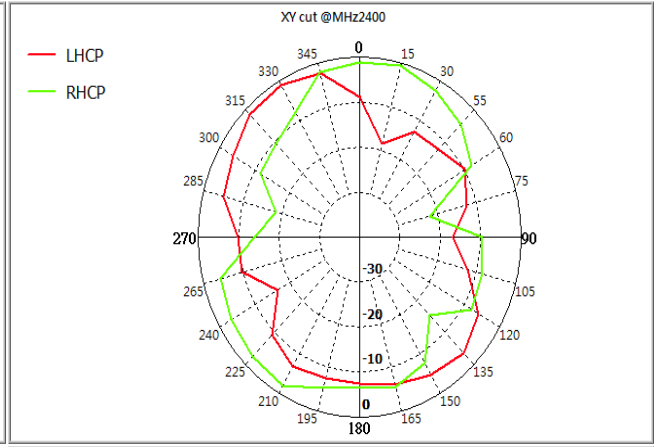
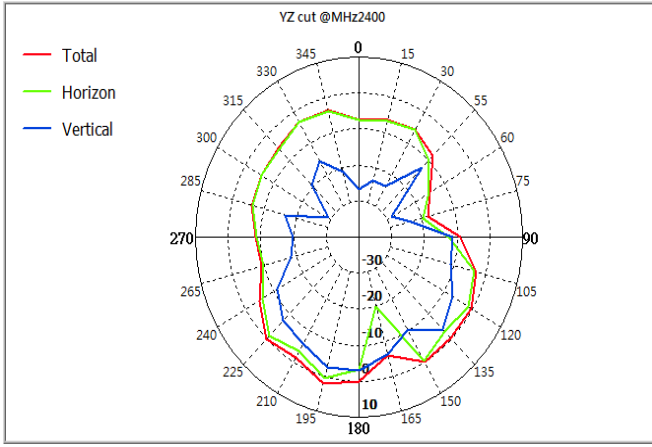


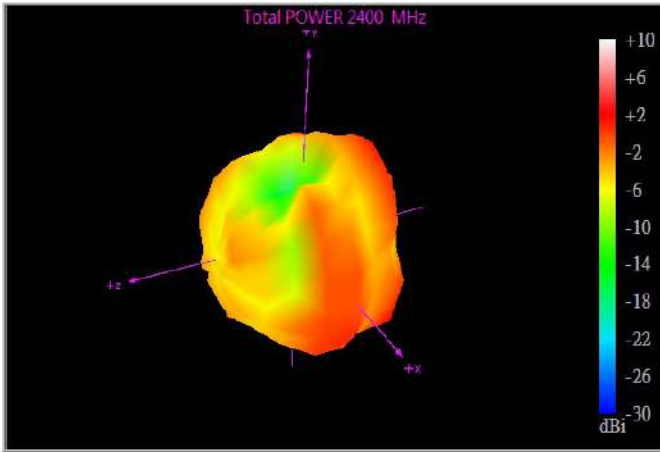
3D Total

Frequency (MHz)	Upper Hem. PRP (dBm)	Lower HEM. PRP (dBm)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Tot. Rad.Pwr. (dBm)
2400 MHz	-7.21	-4.92	-2.91	51.19	2.48	-2.91
2450 MHz	-6.01	-4.06	-1.91	64.35	2.95	-1.91
2483.5 MHz	-5.85	-4.06	-1.85	65.29	3.44	-1.85
2500 MHz	-6.10	-4.17	-2.02	62.85	3.18	-2.02
5150 MHz	-6.27	-6.21	-3.23	47.54	2.83	-3.23
5250 MHz	-7.76	-7.31	-4.52	35.35	1.48	-4.52
5350 MHz	-7.90	-6.98	-4.41	36.23	2.59	-4.41
5470 MHz	-6.89	-6.28	-3.56	44.04	1.95	-3.56
5597.5 MHz	-7.66	-7.64	-4.64	34.35	2.20	-4.64
5725 MHz	-7.15	-6.79	-3.95	40.23	2.52	-3.95
5785 MHz	-7.54	-6.90	-4.20	38.02	1.78	-4.20
5850 MHz	-6.98	-6.76	-3.86	41.15	2.00	-3.86
5895 MHz	-6.01	-6.09	-3.04	49.61	1.88	-3.04
5925 MHz	-6.19	-6.50	-3.33	46.46	3.79	-3.33
6000 MHz	-6.13	-6.52	-3.31	46.62	2.72	-3.31
6125 MHz	-5.09	-5.63	-2.34	58.35	4.35	-2.34
6225 MHz	-5.61	-5.22	-2.40	57.59	2.61	-2.40
6325 MHz	-5.33	-4.93	-2.11	61.51	3.30	-2.11
6425 MHz	-4.79	-4.15	-1.45	71.66	4.10	-1.45
6525 MHz	-7.02	-6.10	-3.52	44.44	3.06	-3.52
6625 MHz	-5.56	-4.72	-2.11	61.51	3.89	-2.11
6725 MHz	-6.20	-5.15	-2.63	54.52	4.22	-2.63
6875 MHz	-6.70	-6.48	-3.58	43.88	3.36	-3.58
7000 MHz	-4.72	-4.83	-1.76	66.62	4.03	-1.76
7125 MHz	-4.22	-3.84	-1.02	79.14	4.95	-1.02

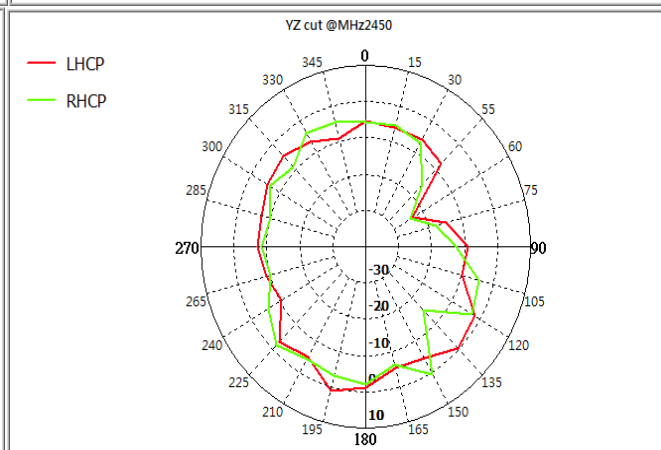
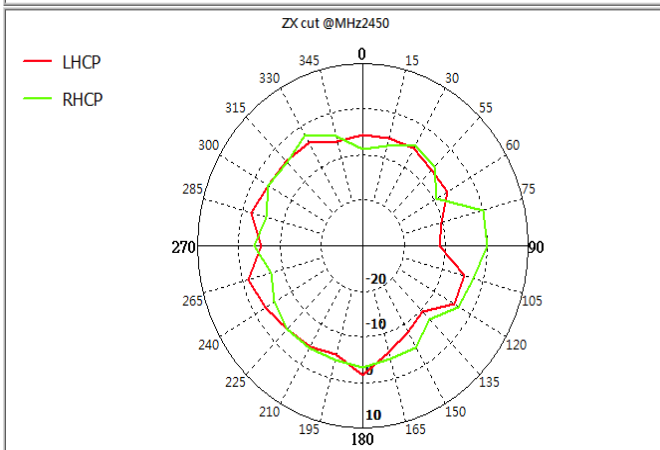
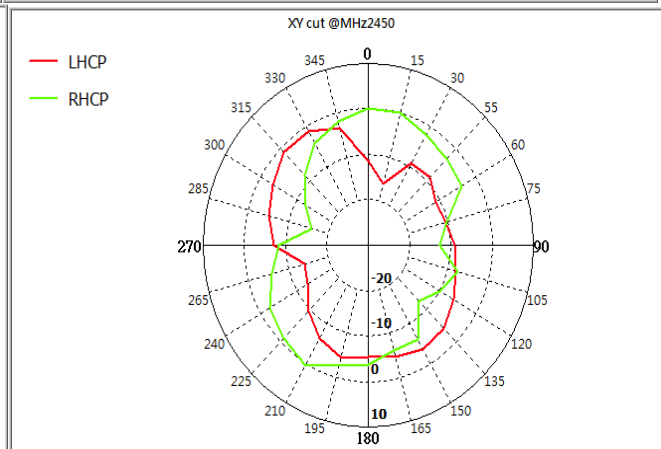
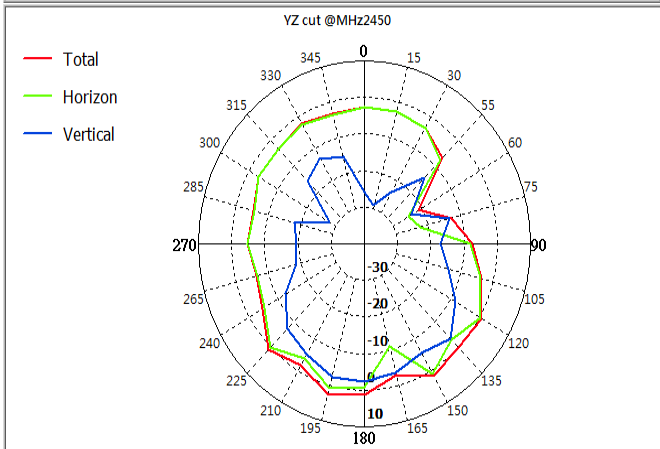
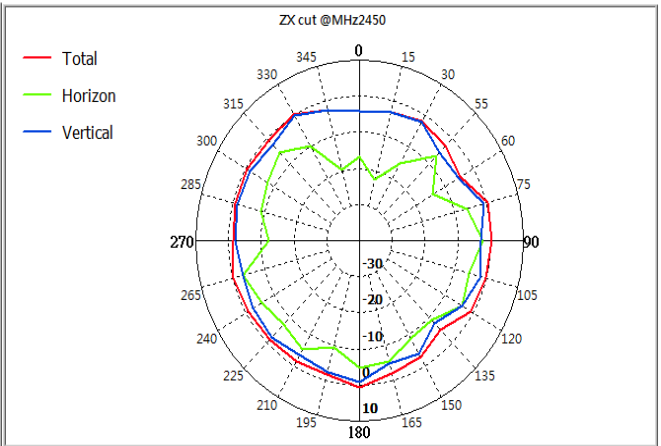
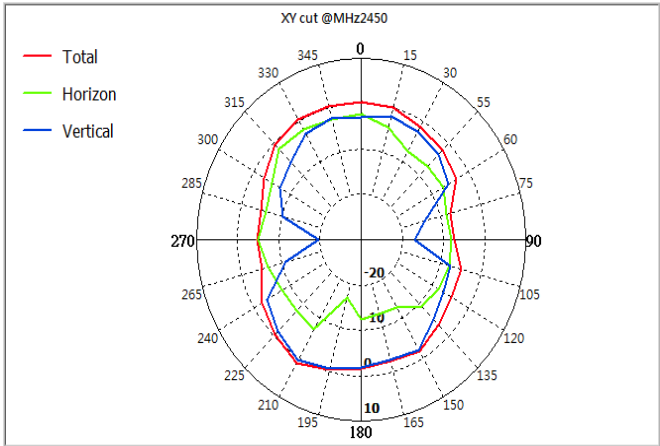
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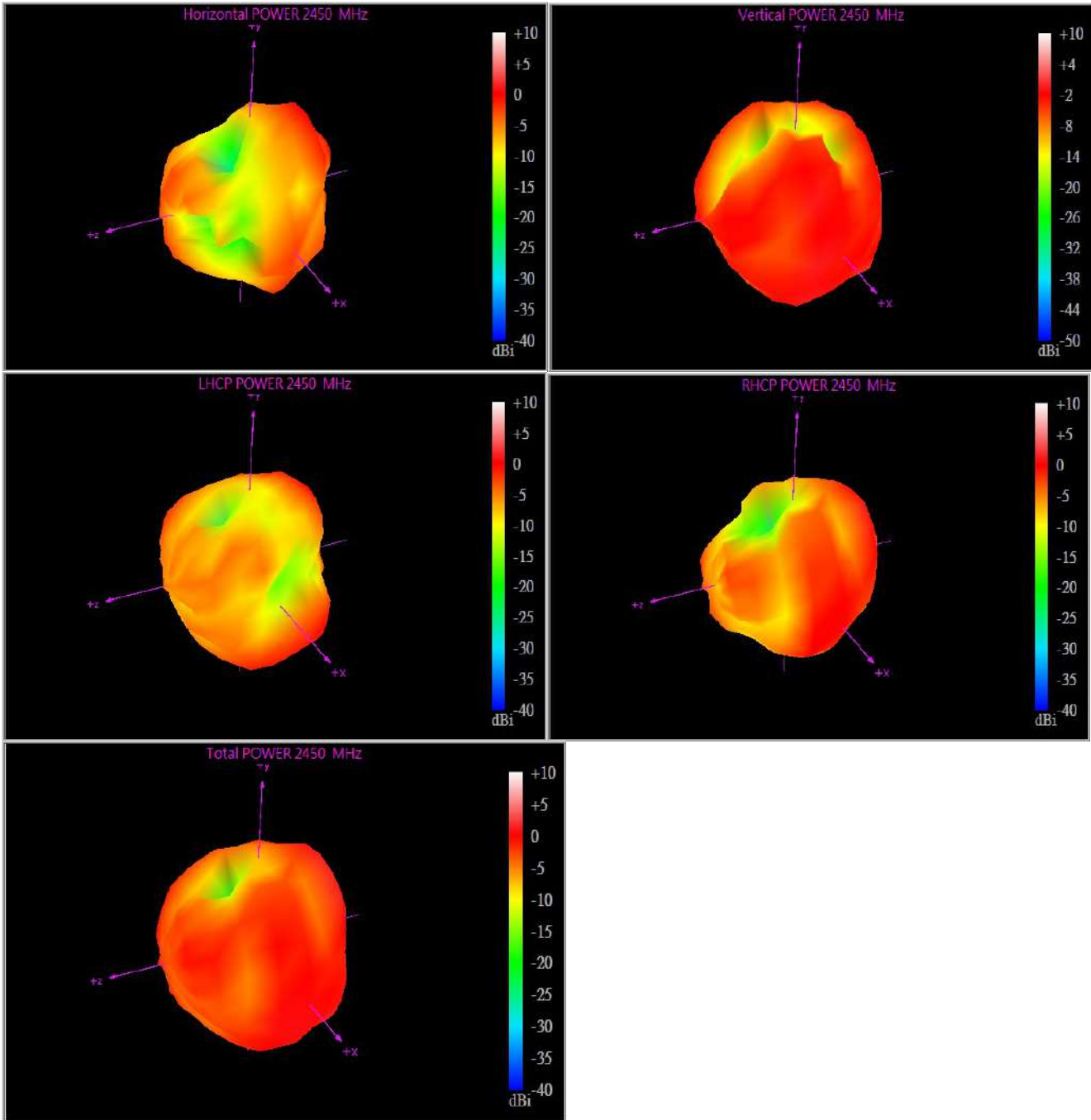




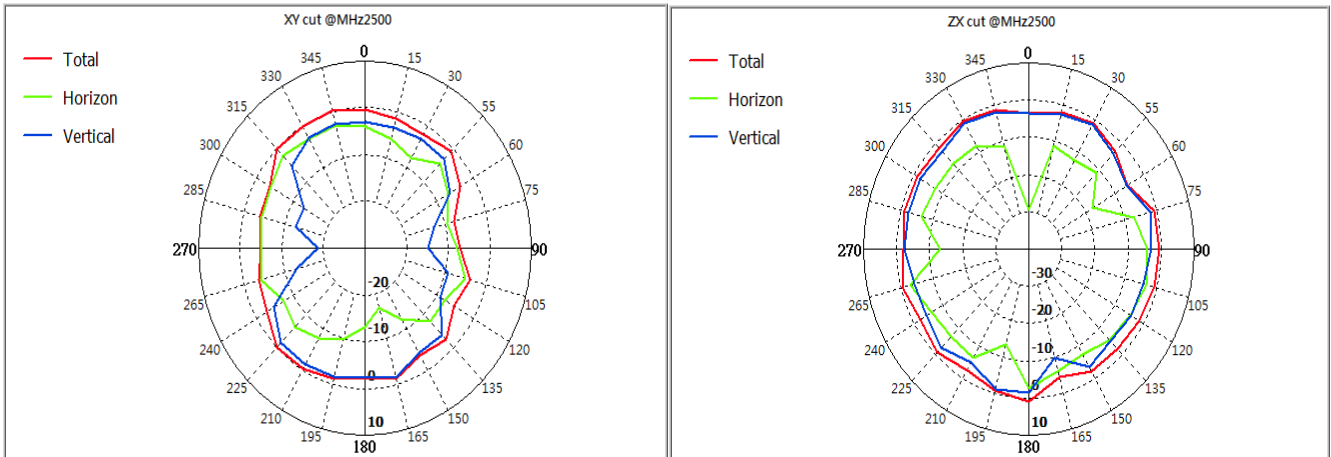


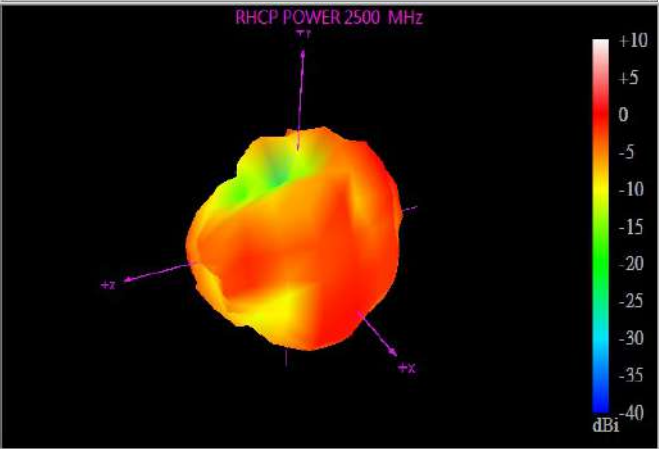
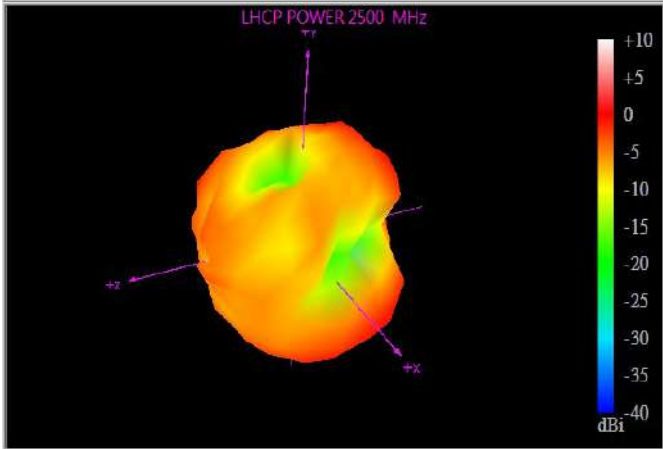
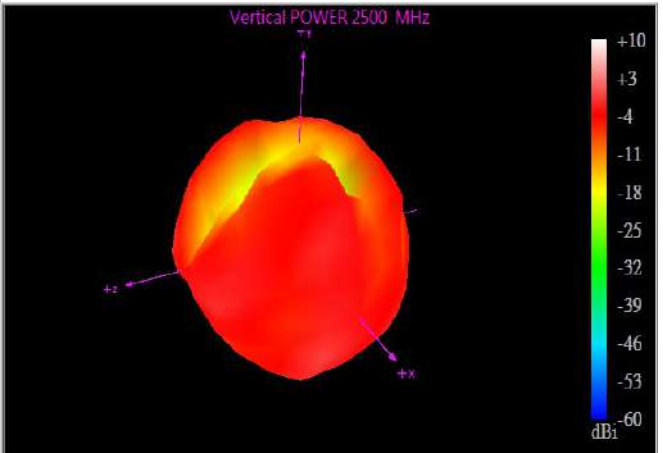
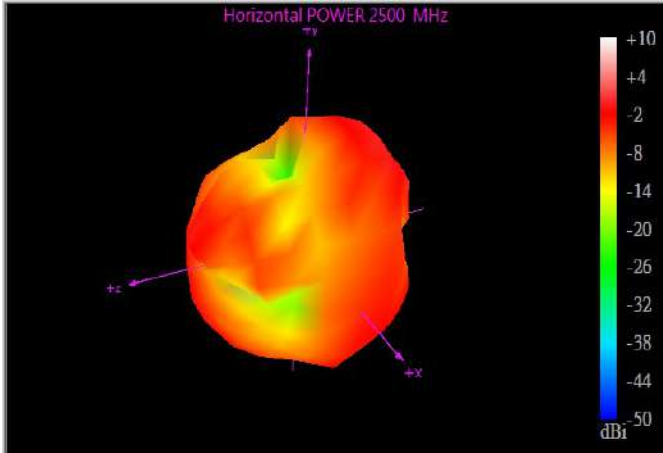
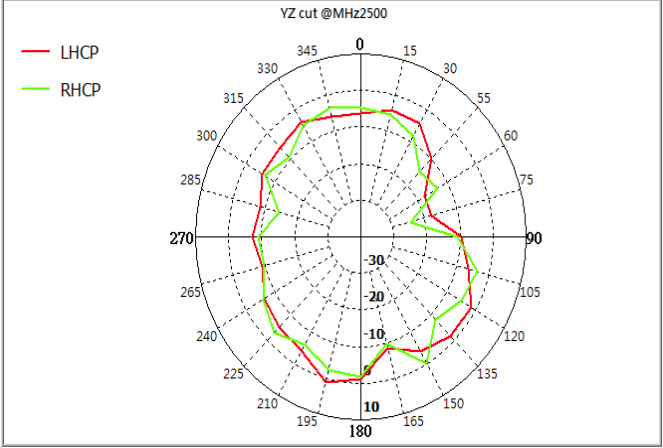
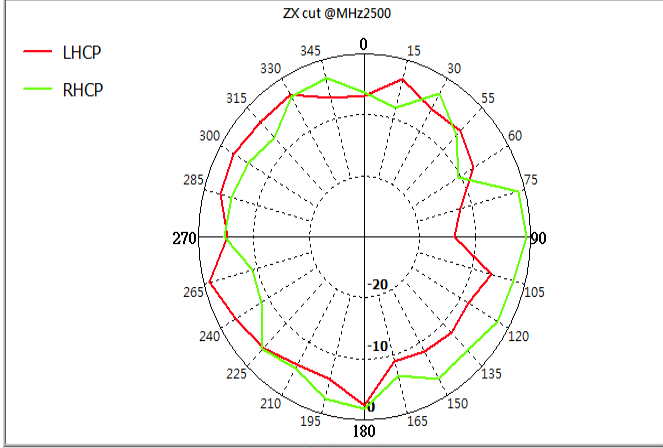
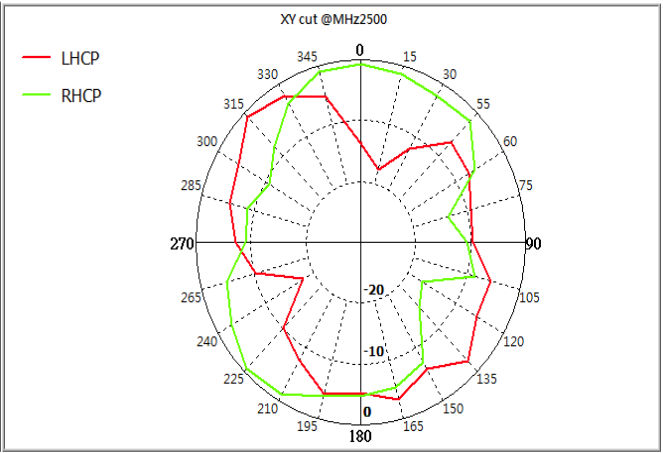
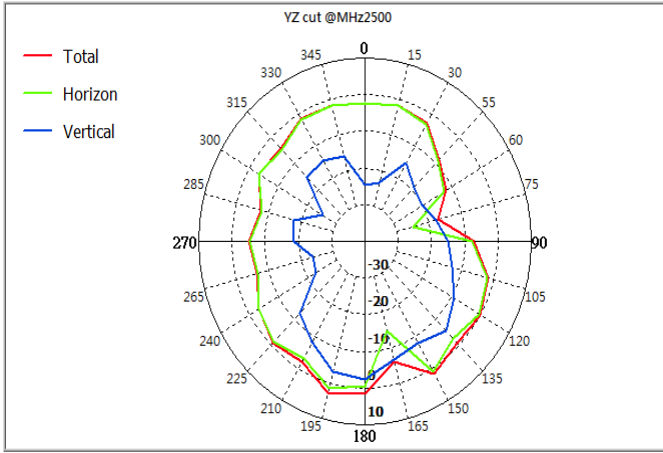
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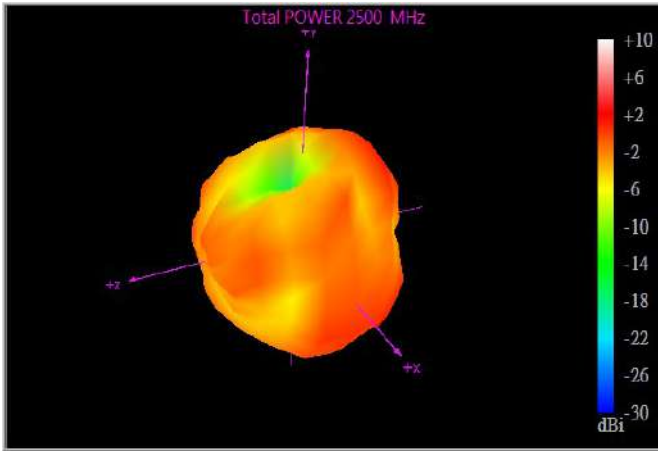




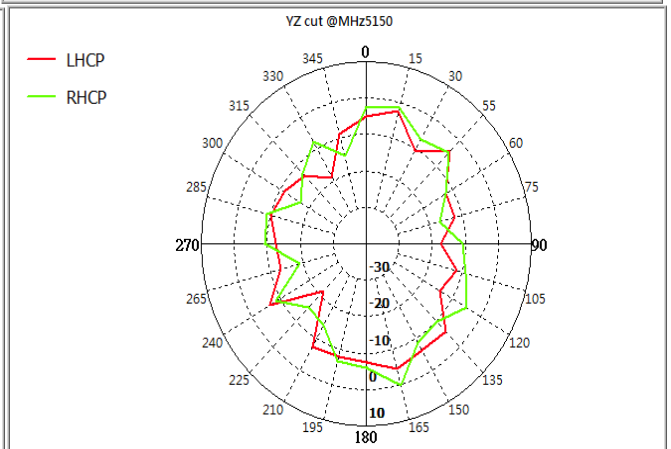
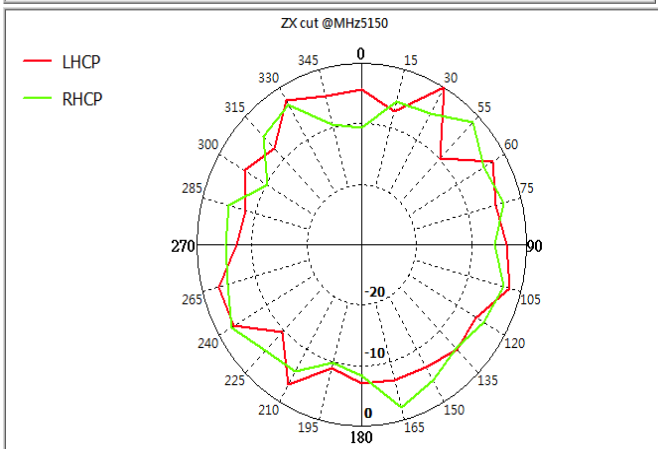
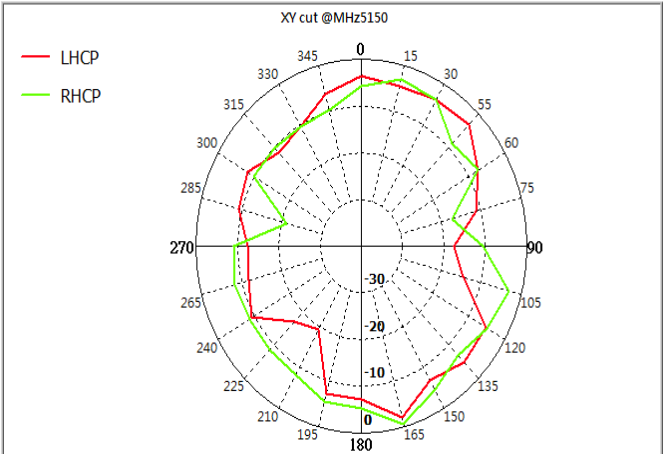
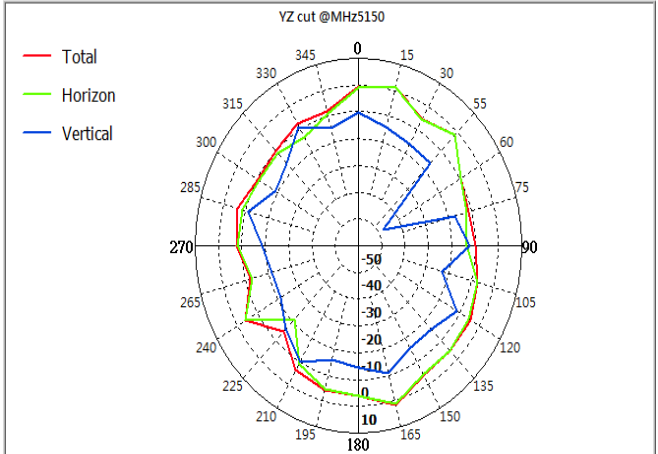
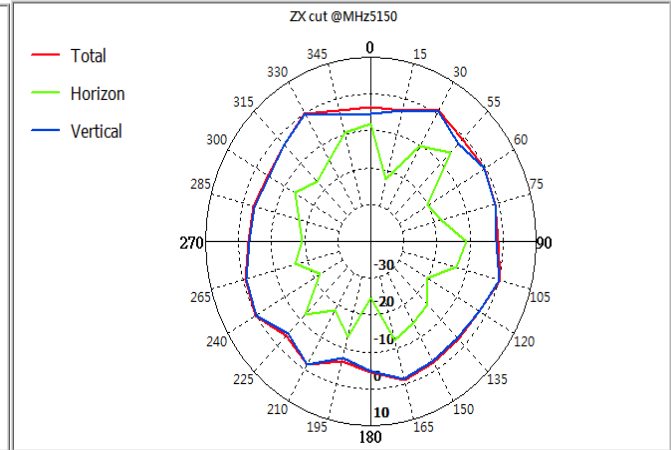
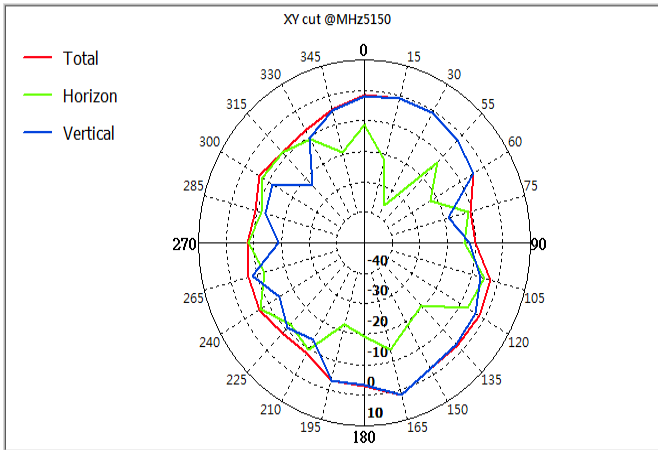
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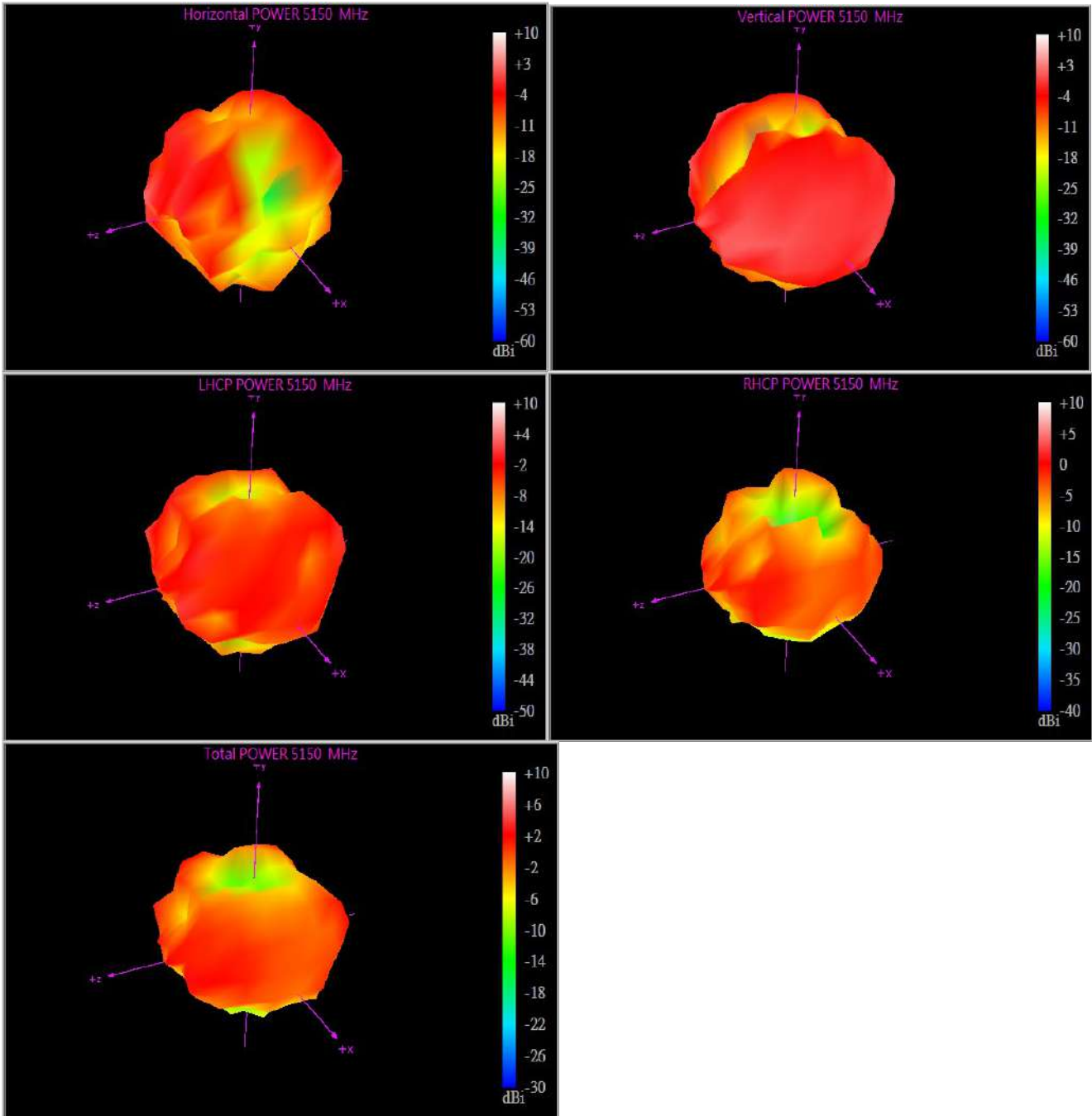




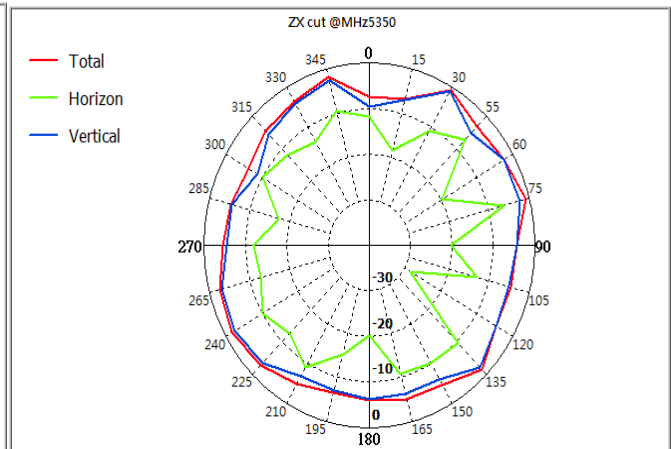
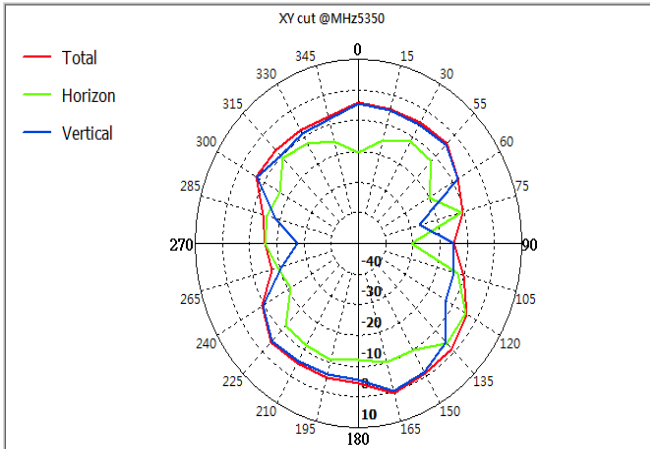


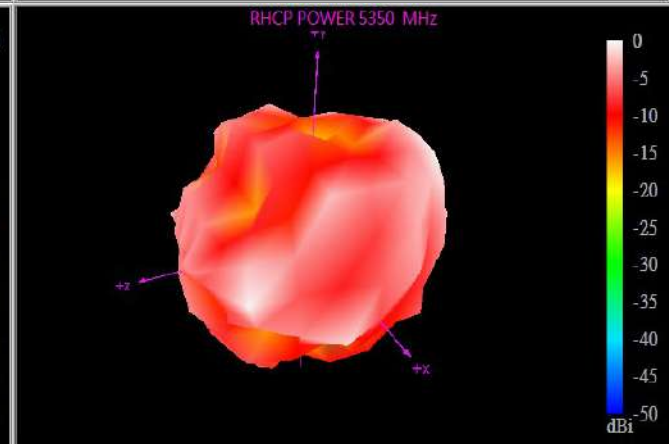
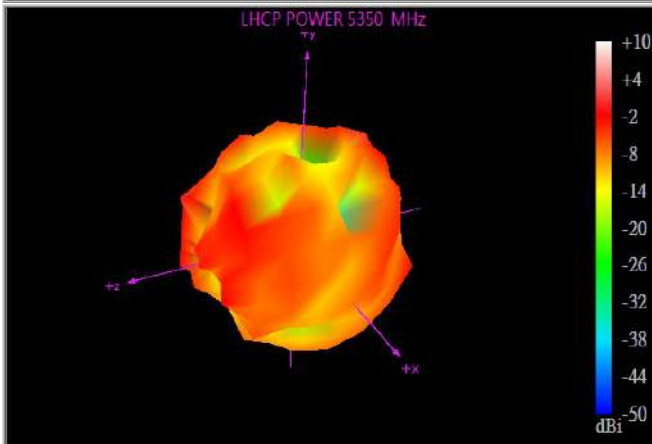
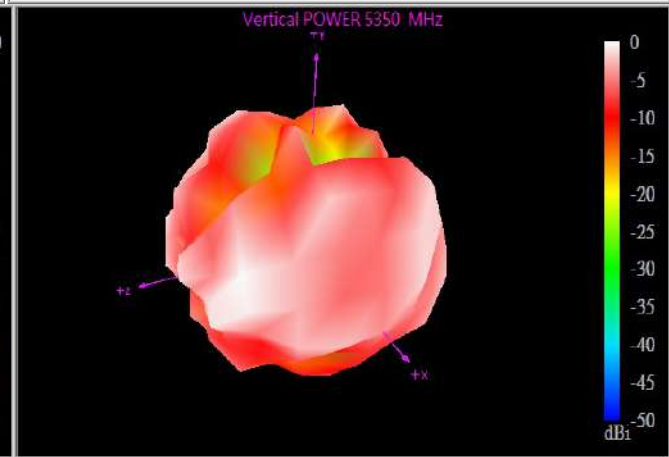
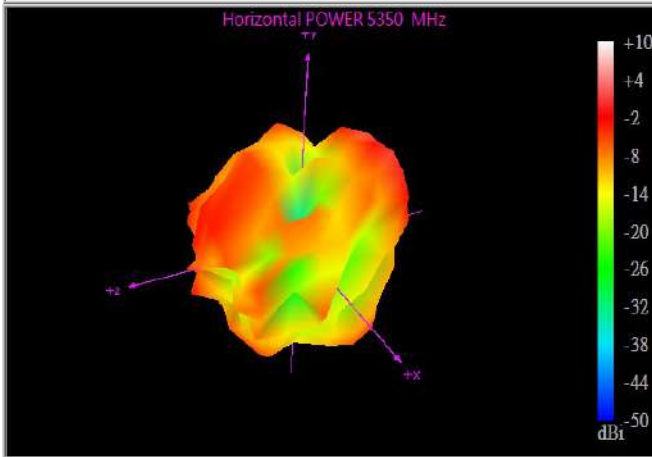
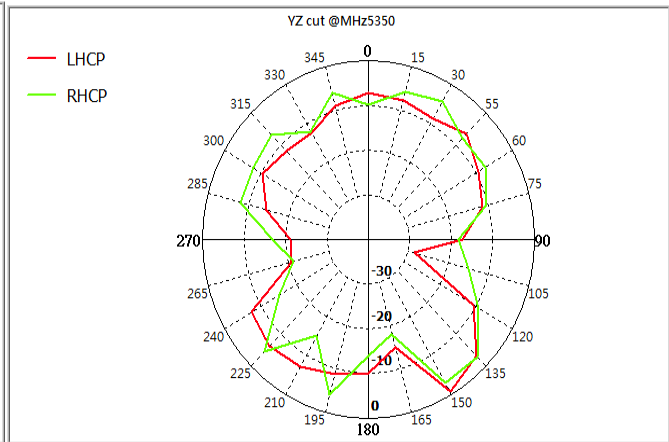
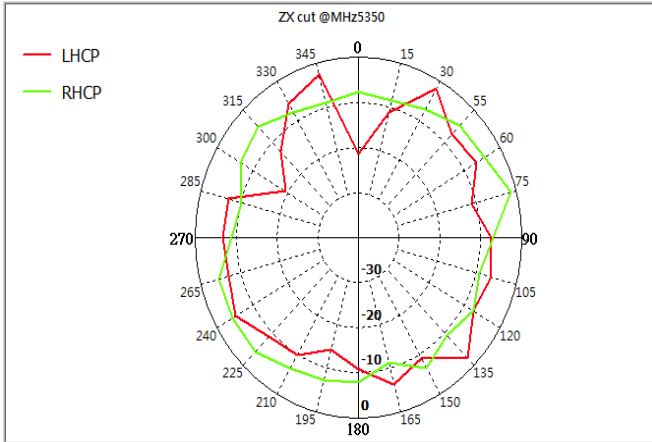
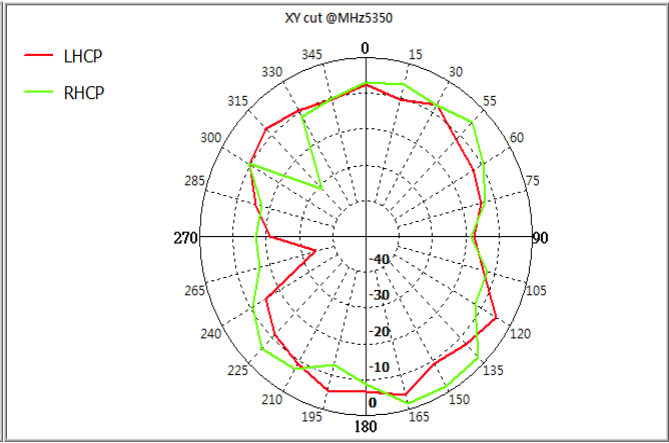
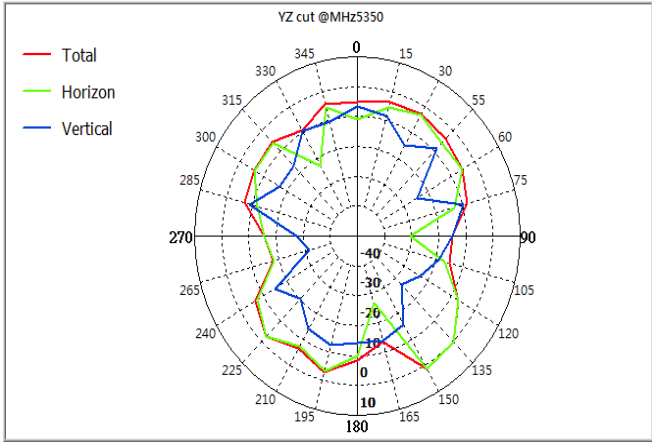
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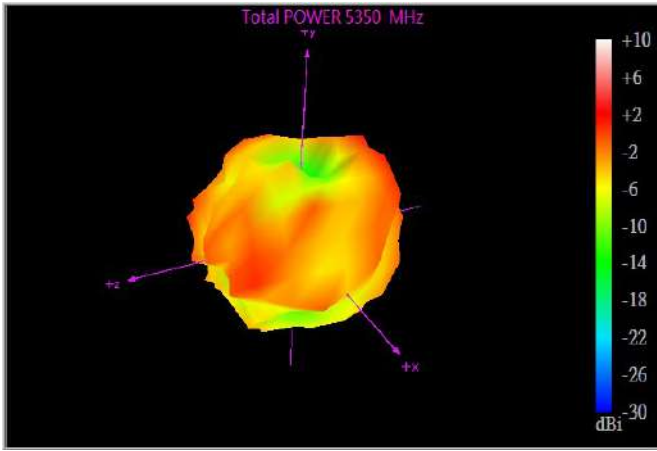




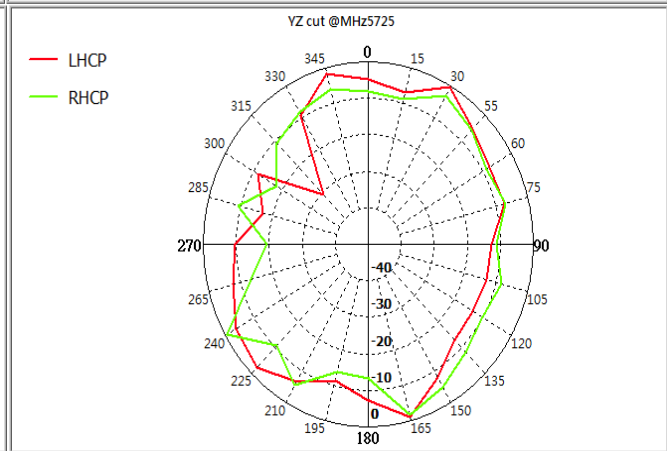
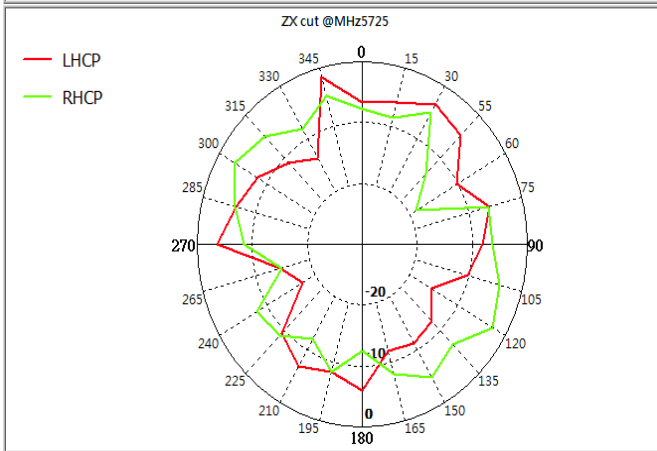
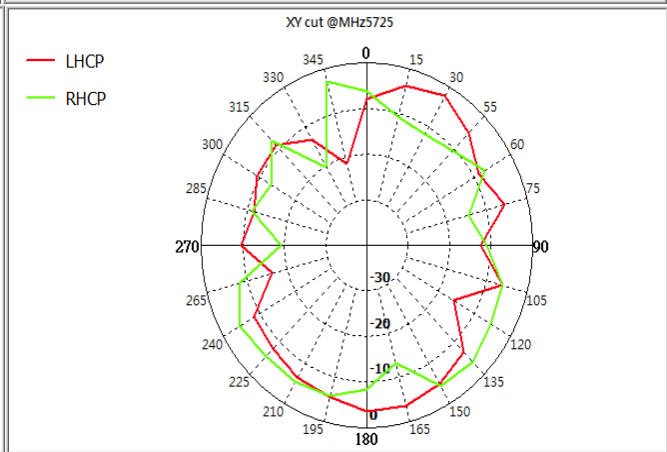
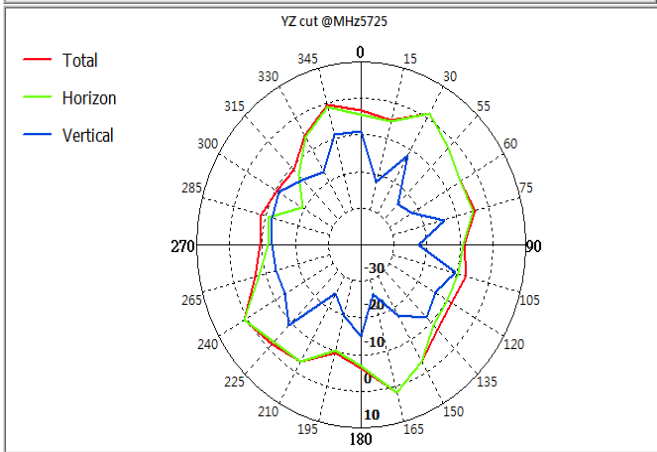
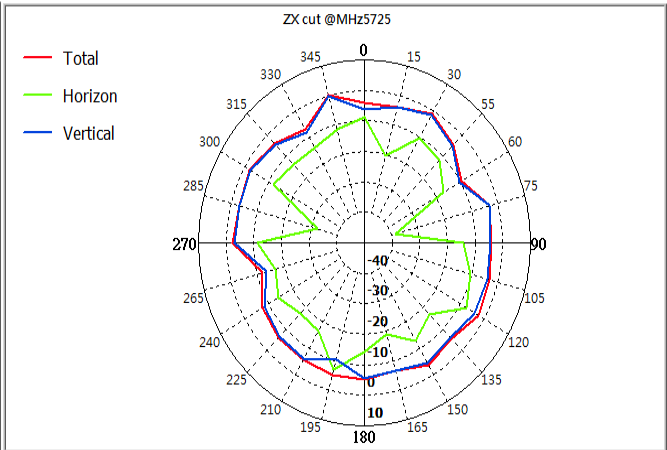
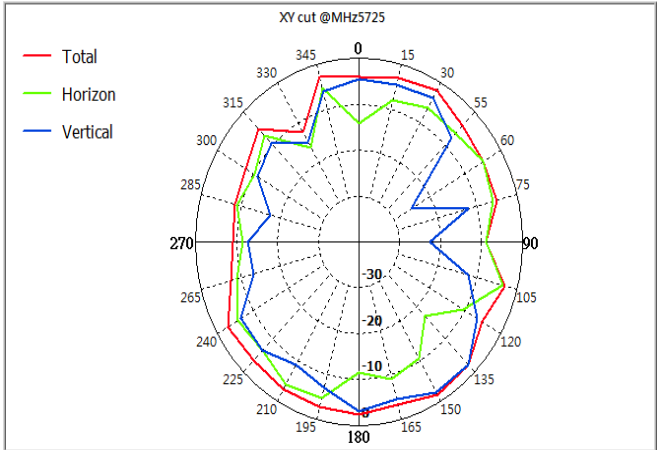
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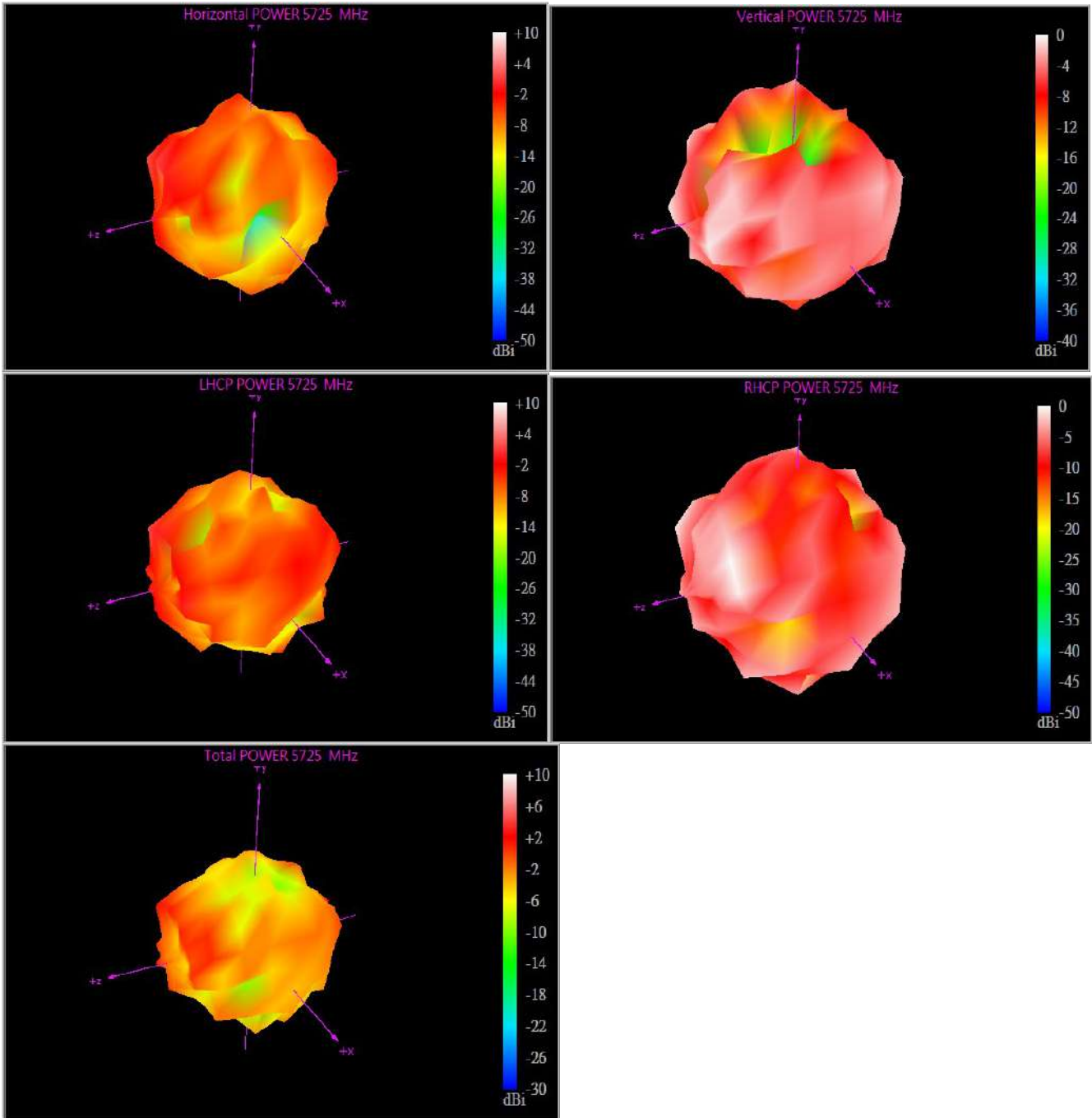




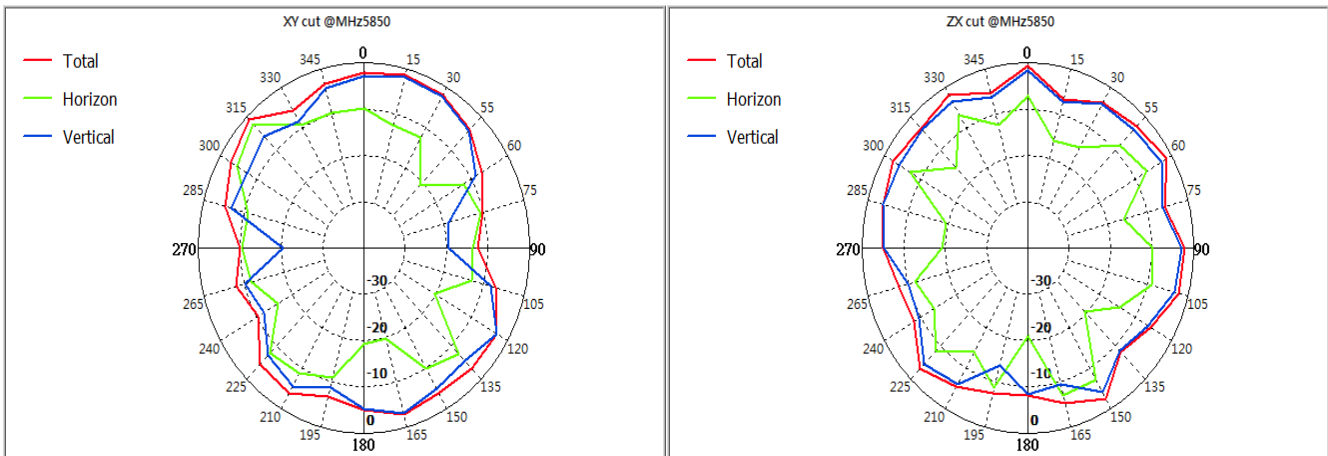


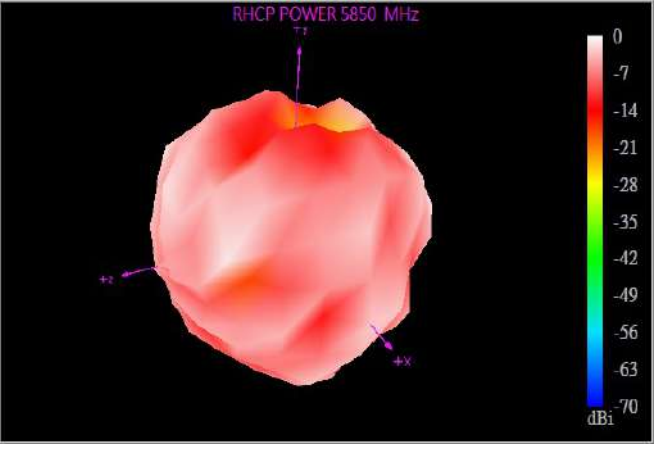
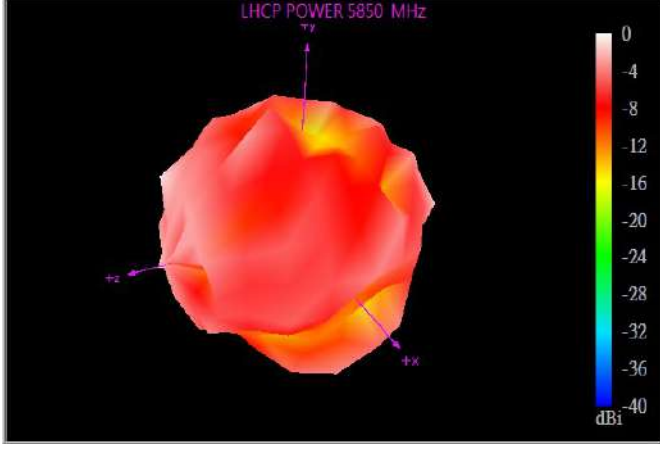
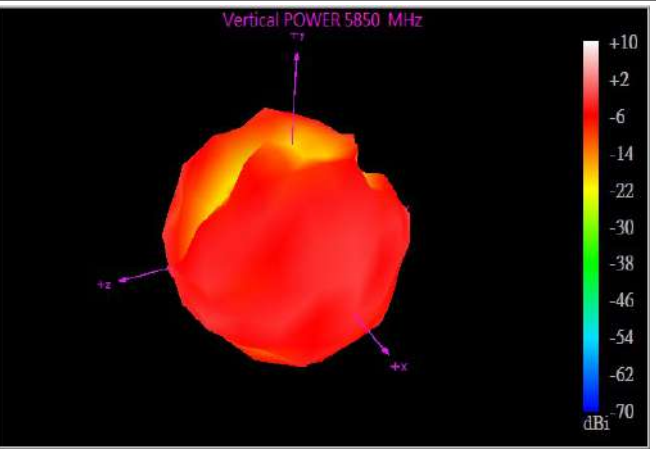
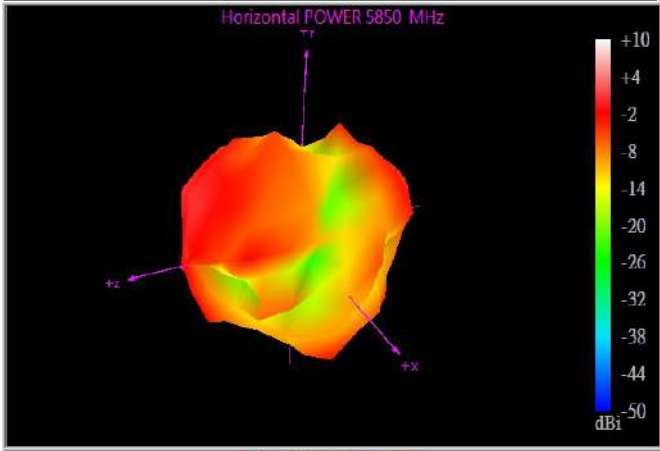
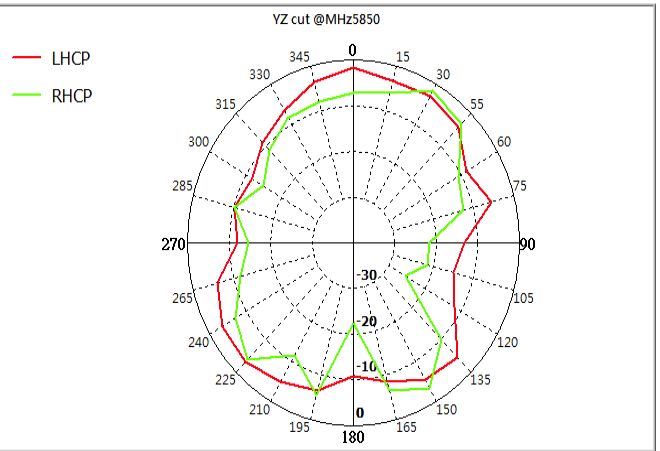
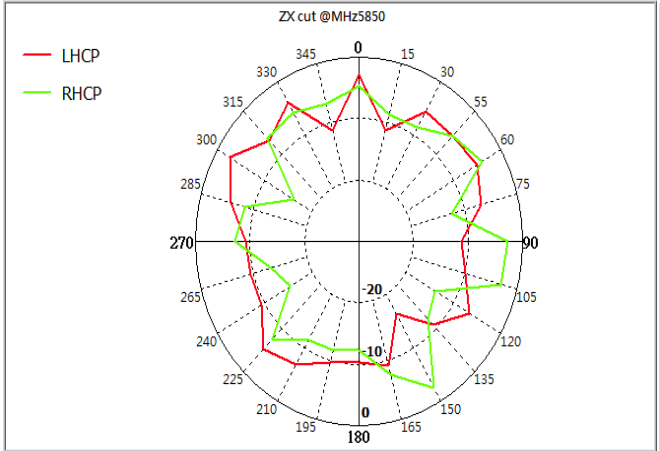
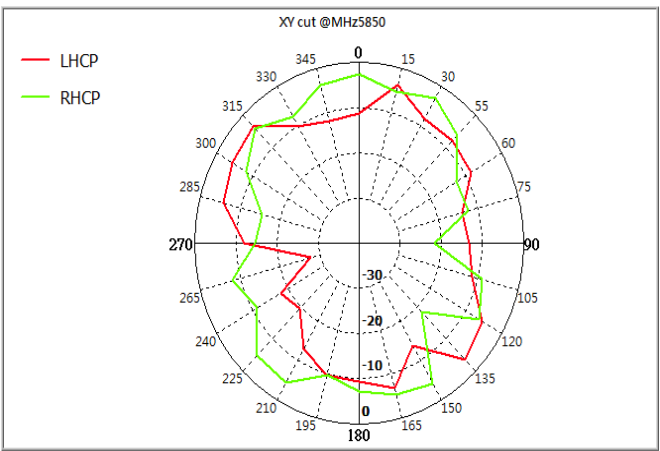
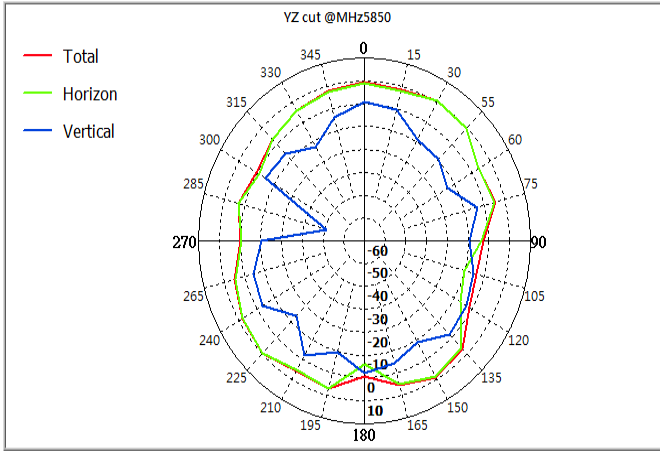
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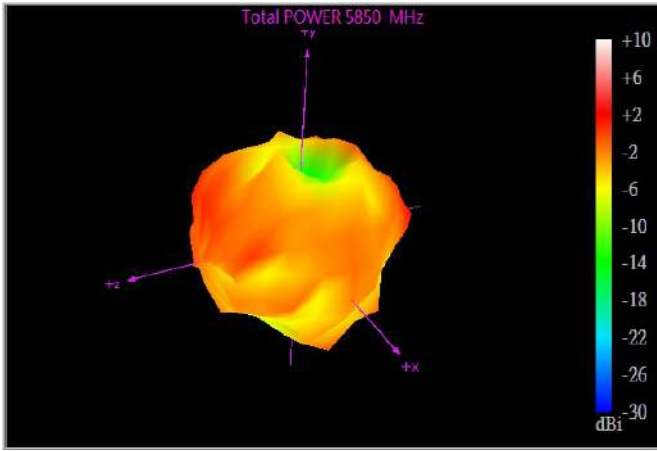




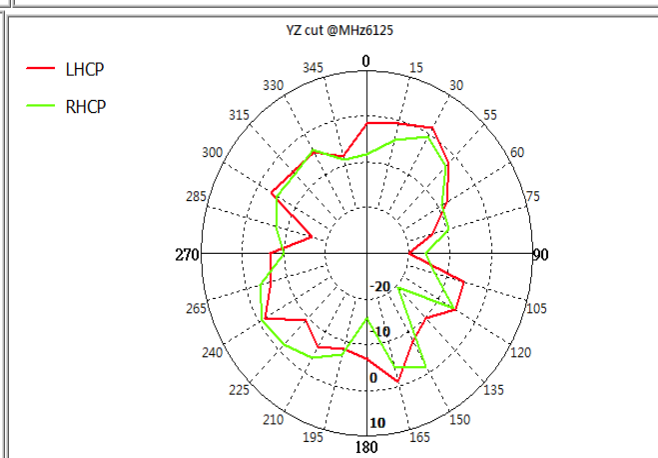
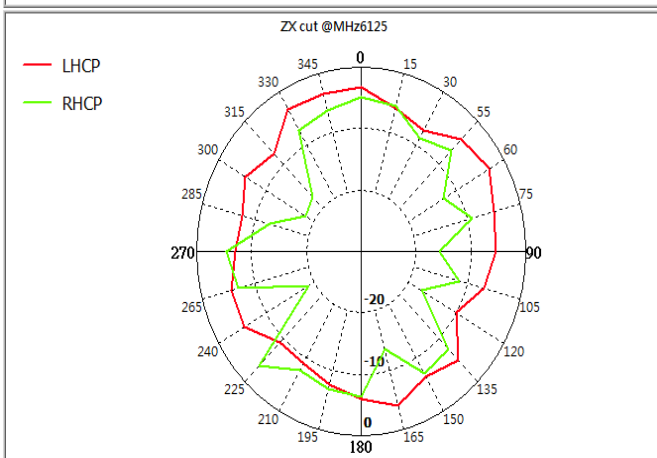
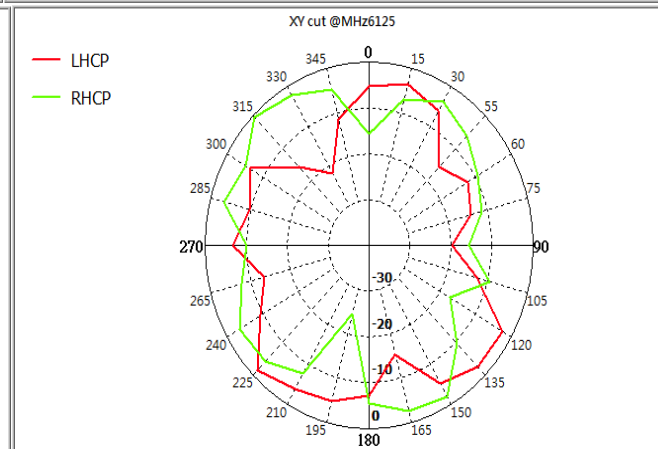
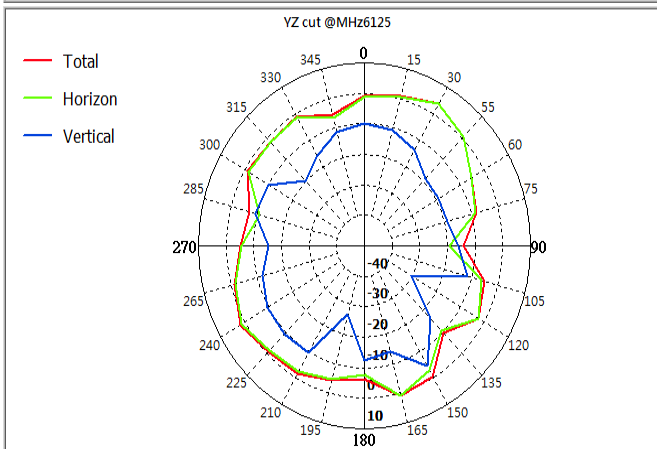
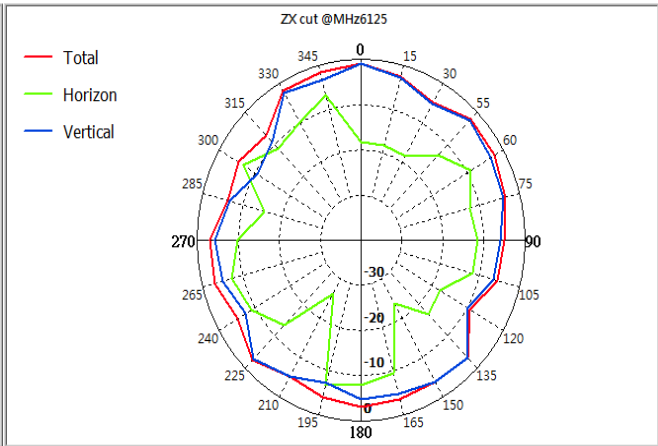
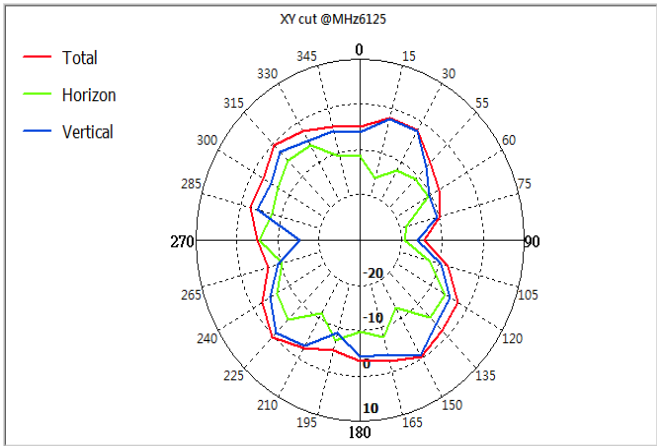
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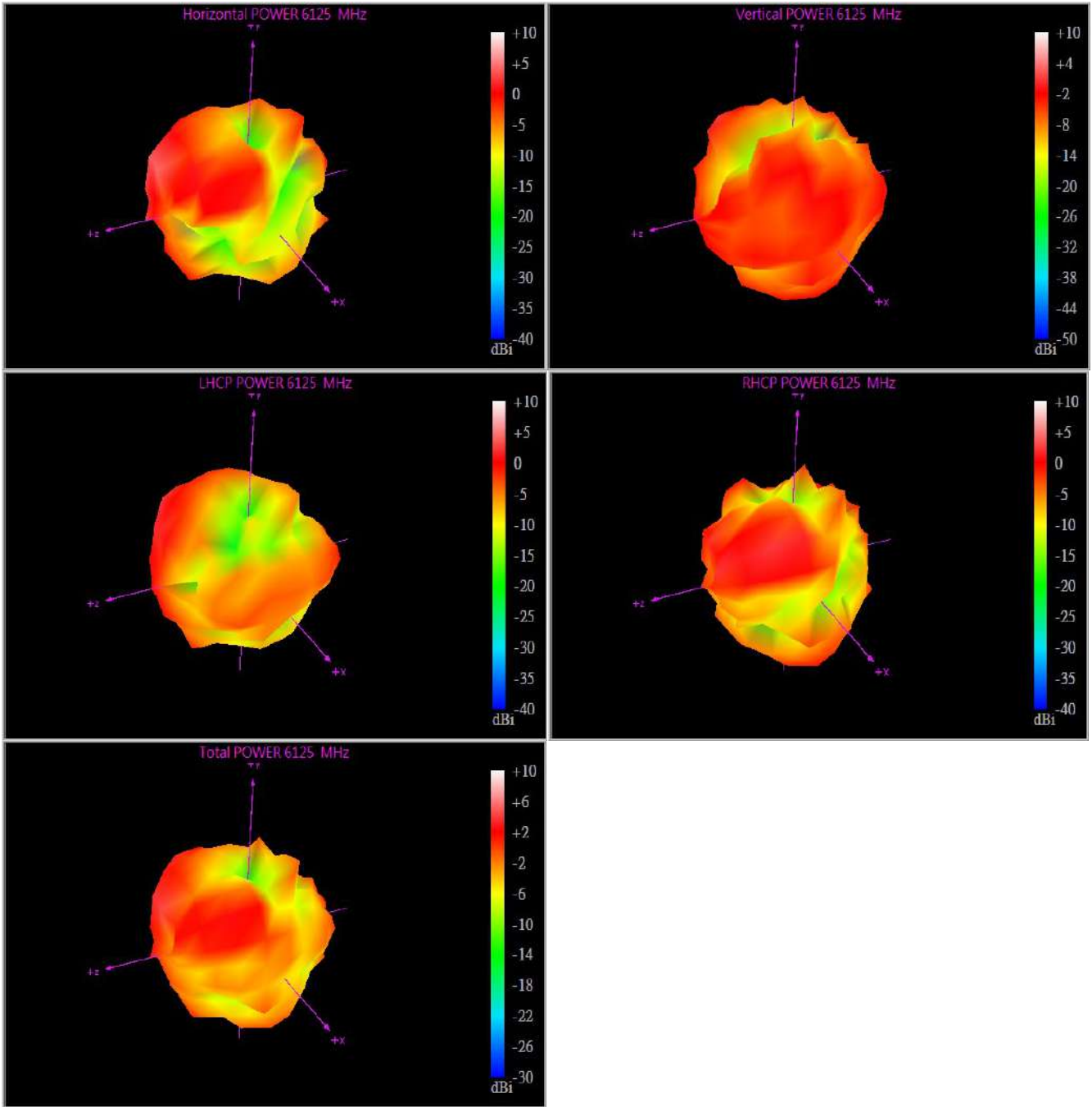




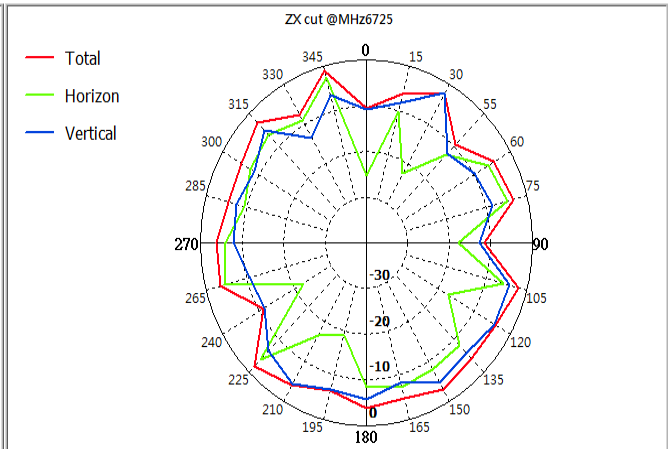
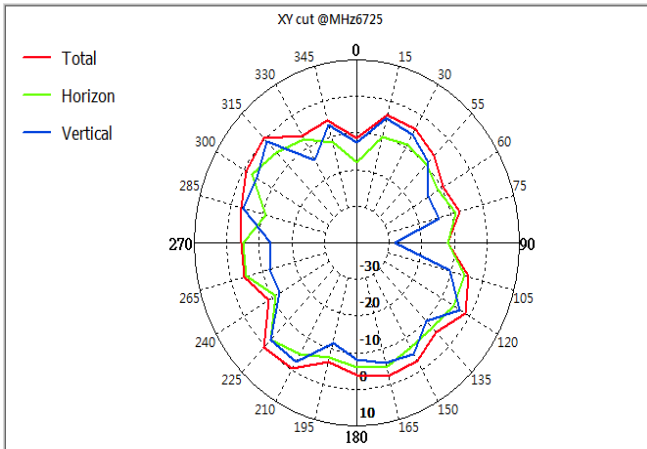


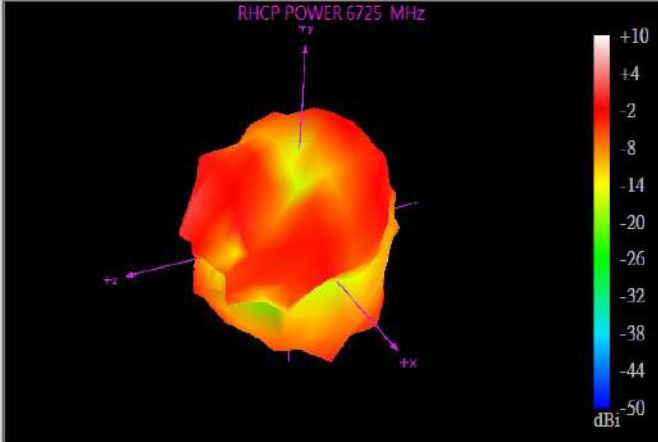
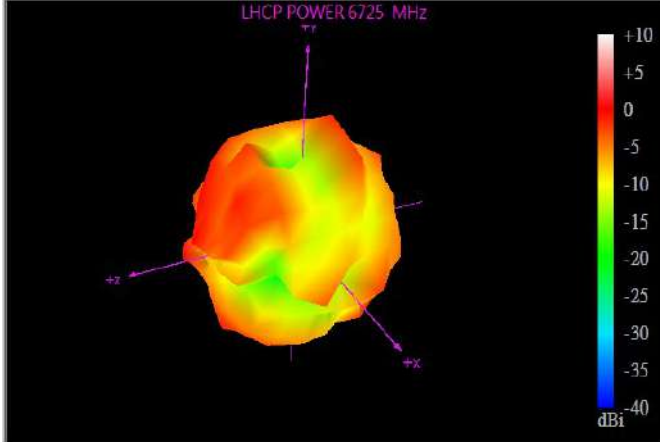
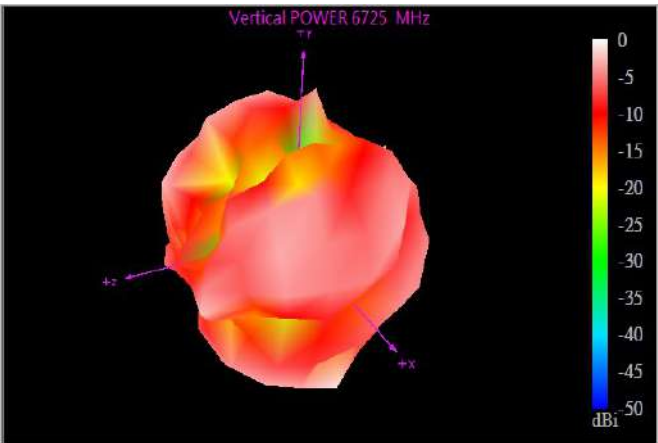
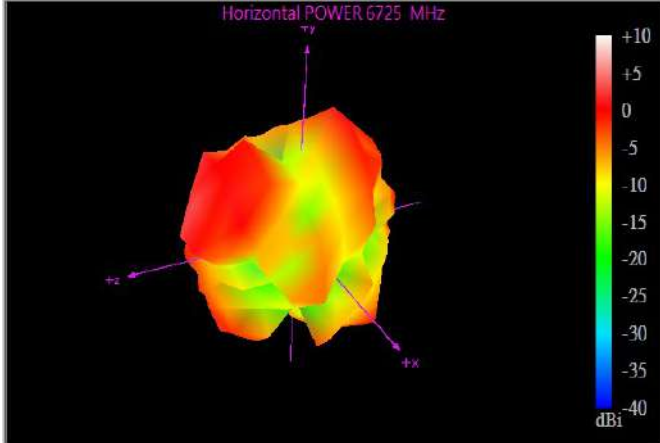
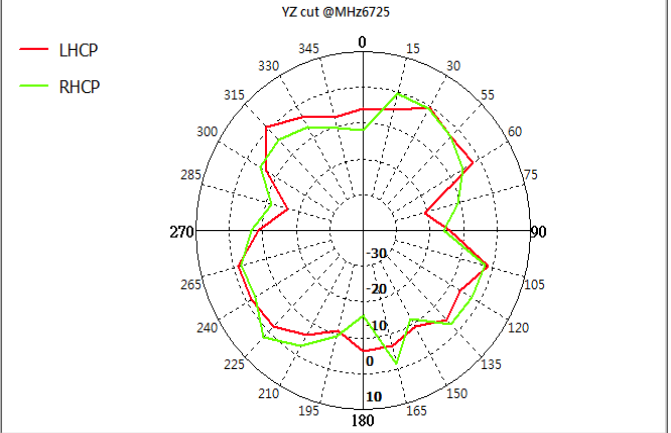
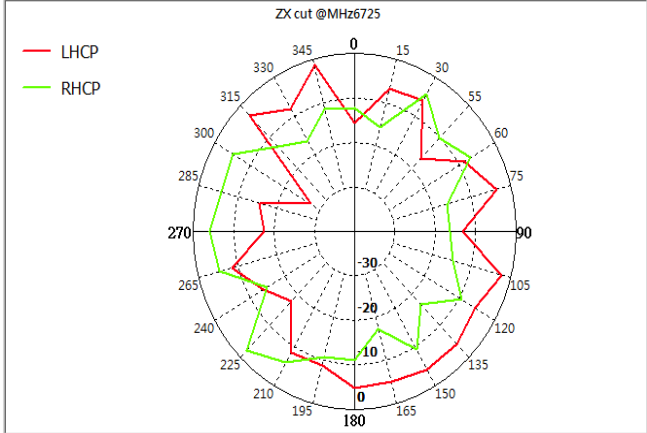
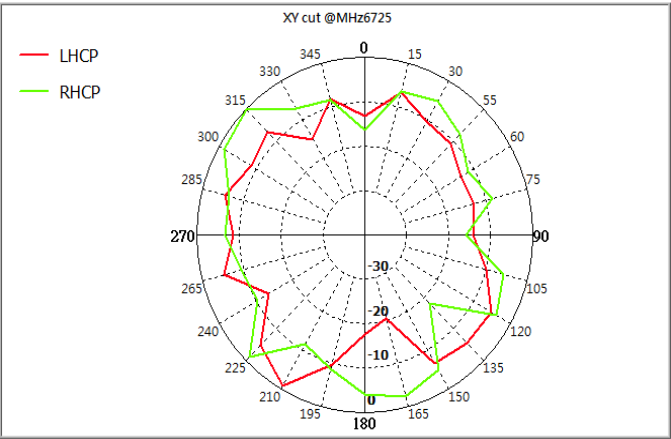
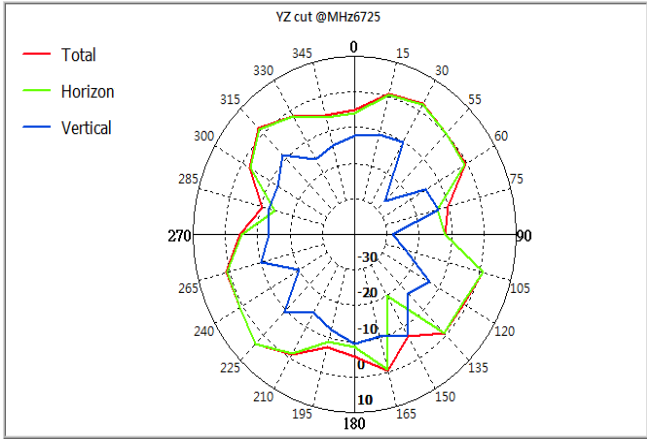
6.125Ghz:

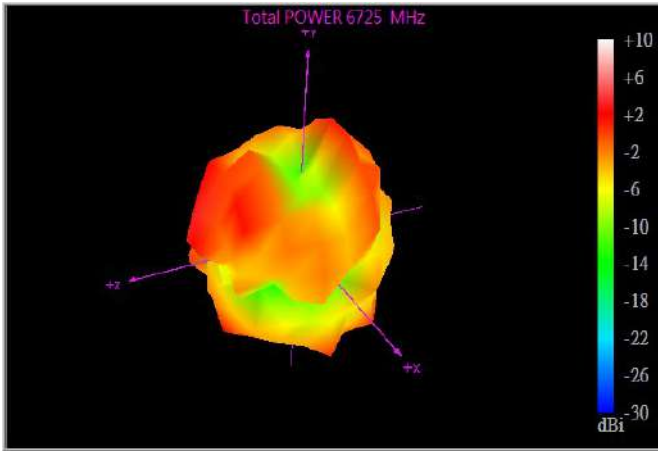




6.725Ghz:







7.125Ghz:

