

4-axis Helix BDS/GNSS/Iridium Passive Antenna

MODEL: TH-85H



1.. GENERAL DESCRIPTION

Model No	P/N
TH-85H	TH85H-TNC(M)

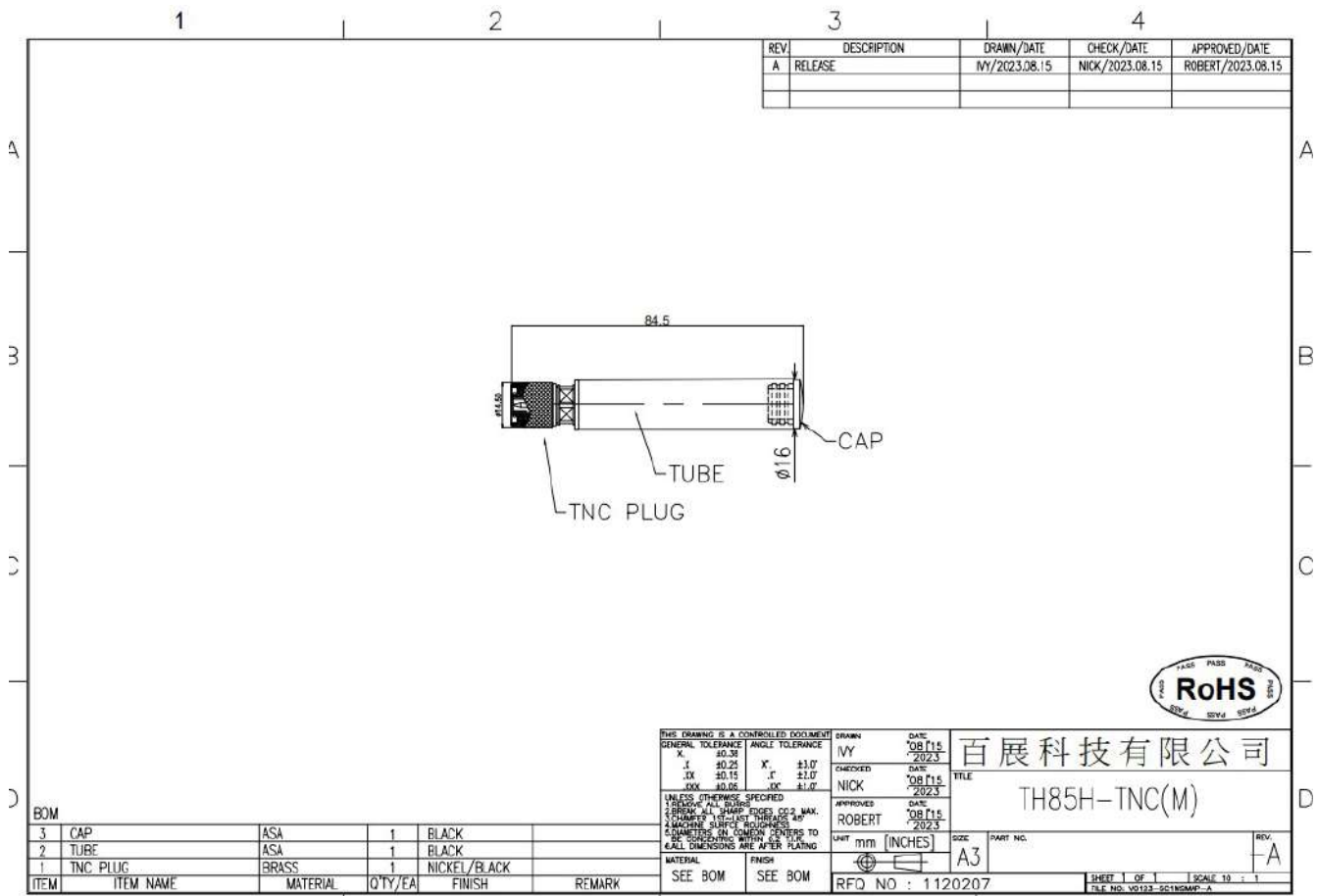
Below is a table summarizing the antenna design specification.

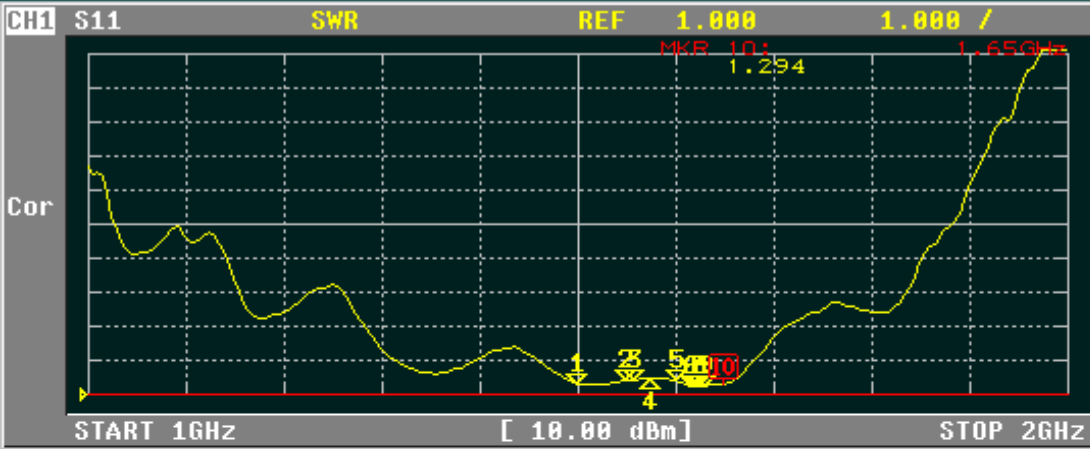
1.1 Electrical Properties

Parameter	Description
Frequency Band	1500~1700MHz
Nominal Impedance	50 ohm
Polarization	R.H.C.P. 4-axis Ceramic helix antenna
Admitted Power radiation	1W
V.S.W.R	2.0:1 Max
Antenna Peak Gain	2 dBi
Note: Gain includes the cable loss	

1.2 Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Material	ASA
Touch Type	Screw Type
Connector Type	TNC (Male)
Antenna Dimensions	OD16 x 84.5mm±0.5
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C





CH1 MARKER LIST

1:	1.500 000GHZ	1.314
2:	1.550 000GHZ	1.409
3:	1.559 000GHZ	1.437
4:	1.575 000GHZ	1.486
5:	1.602 000GHZ	1.383
6:	1.616 000GHZ	1.247
7:	1.620 000GHZ	1.210
8:	1.626 000GHZ	1.223
9:	1.630 000GHZ	1.263
10:	1.650 000GHZ	1.295

FORMAT

SWR

REAL

IMAG

PHASE

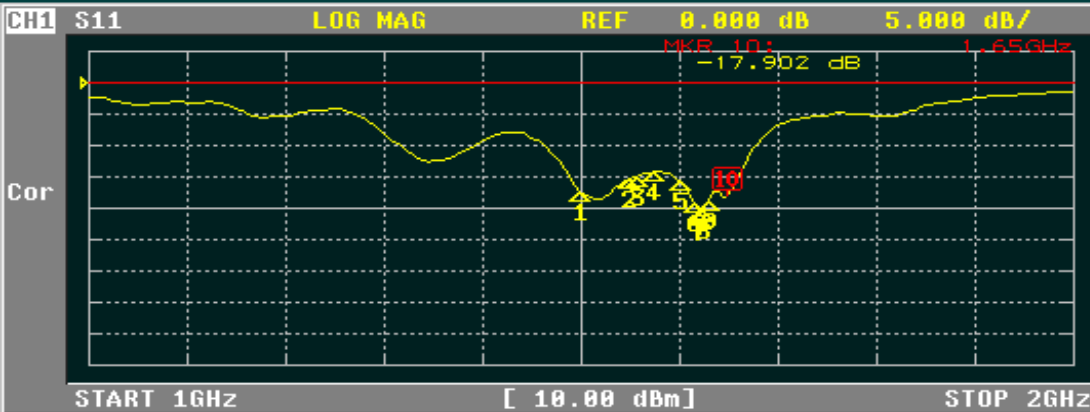
-∞, +∞

LOG MAG & PHASE

LOG MAG & DELAY

LIN MAG & PHASE

More 2/2



CH1 MARKER LIST

1:	1.500 000GHZ	-17.315 dB
2:	1.550 000GHZ	-15.167 dB
3:	1.559 000GHZ	-14.672 dB
4:	1.575 000GHZ	-14.157 dB
5:	1.602 000GHZ	-15.809 dB
6:	1.616 000GHZ	-19.301 dB
7:	1.620 000GHZ	-20.528 dB
8:	1.626 000GHZ	-20.052 dB
9:	1.630 000GHZ	-18.732 dB
10:	1.650 000GHZ	-17.902 dB

FORMAT

LOG MAG

PHASE

DELAY

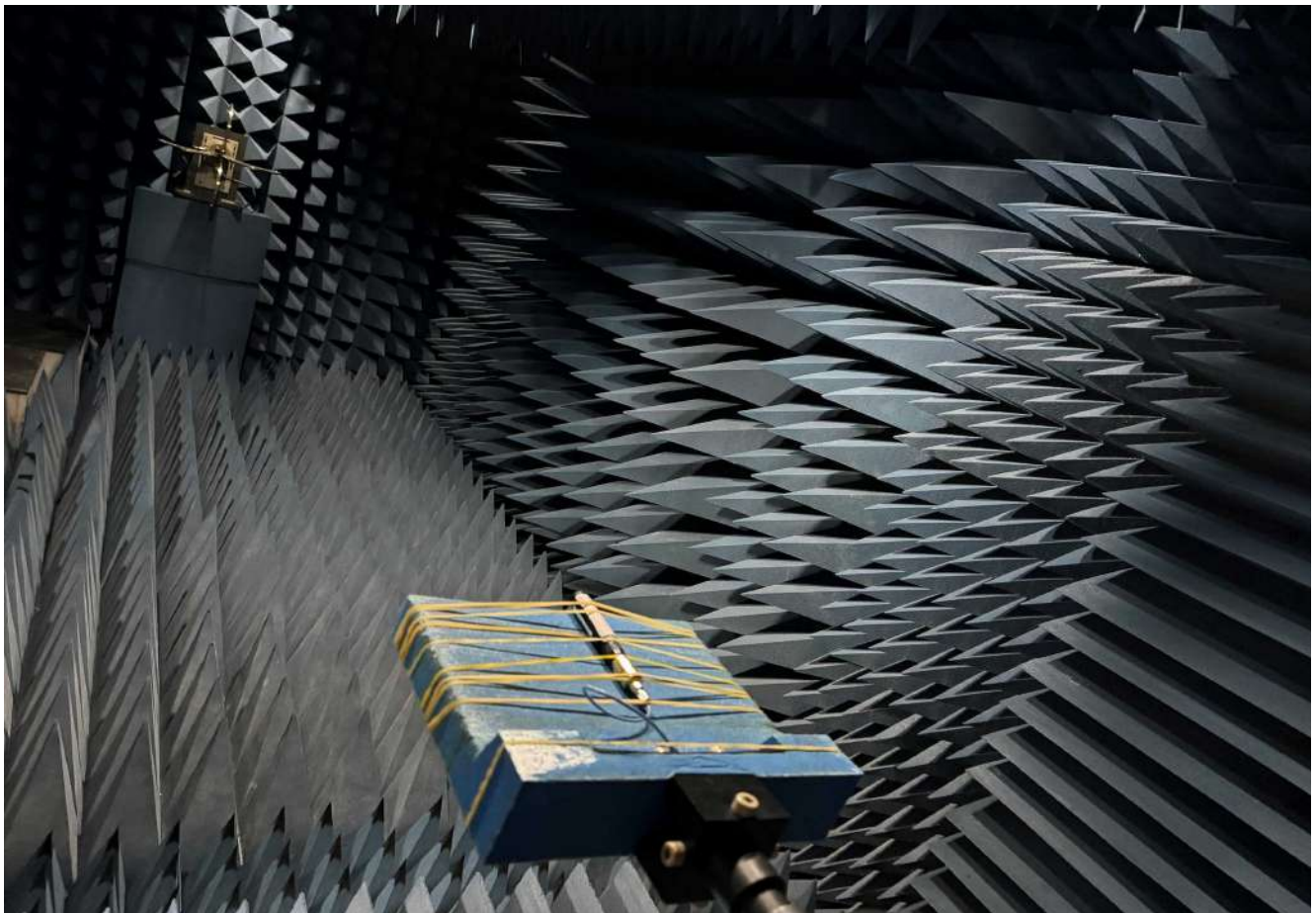
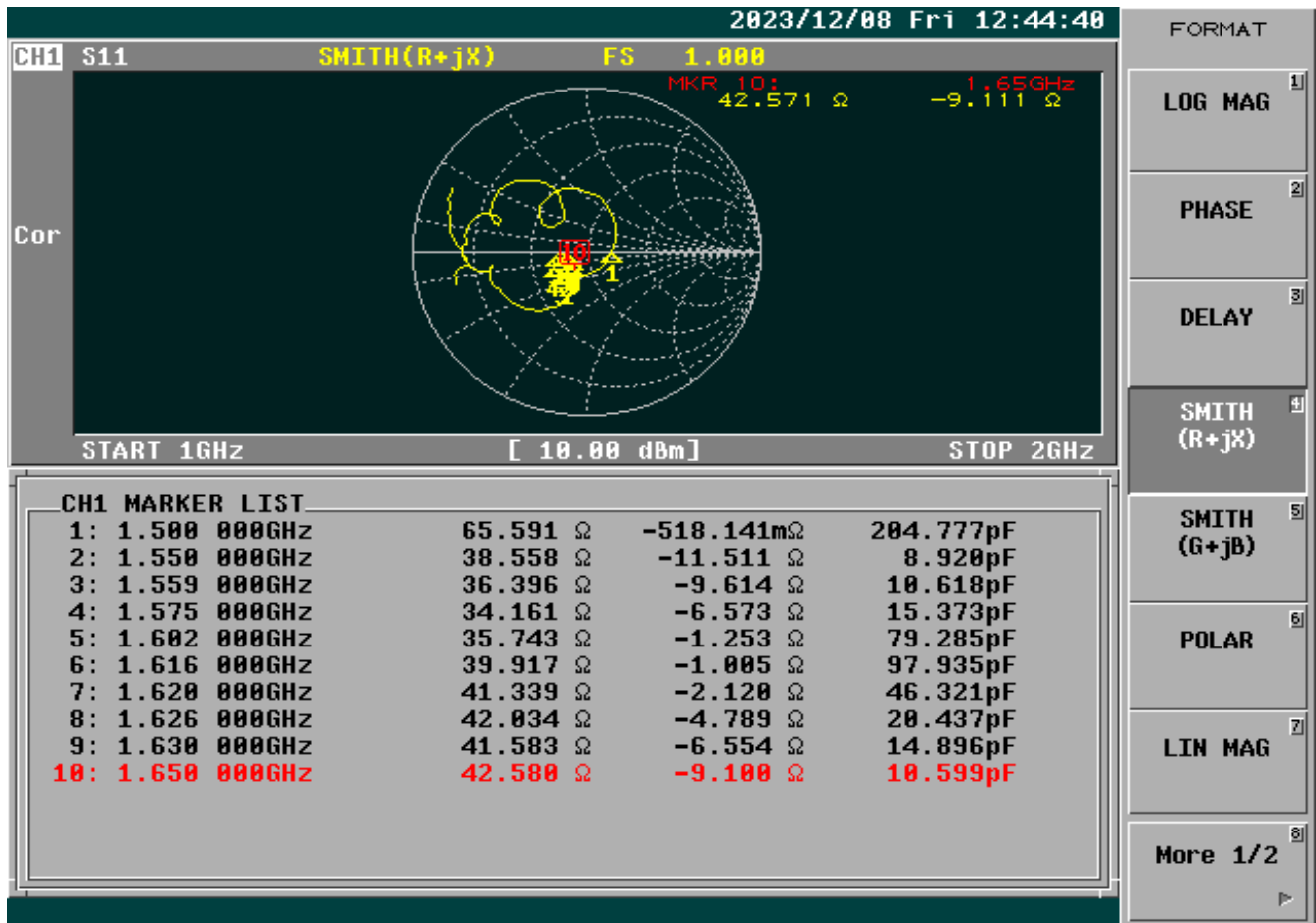
SMITH (R+jX)

SMITH (G+jB)

POLAR

LIN MAG

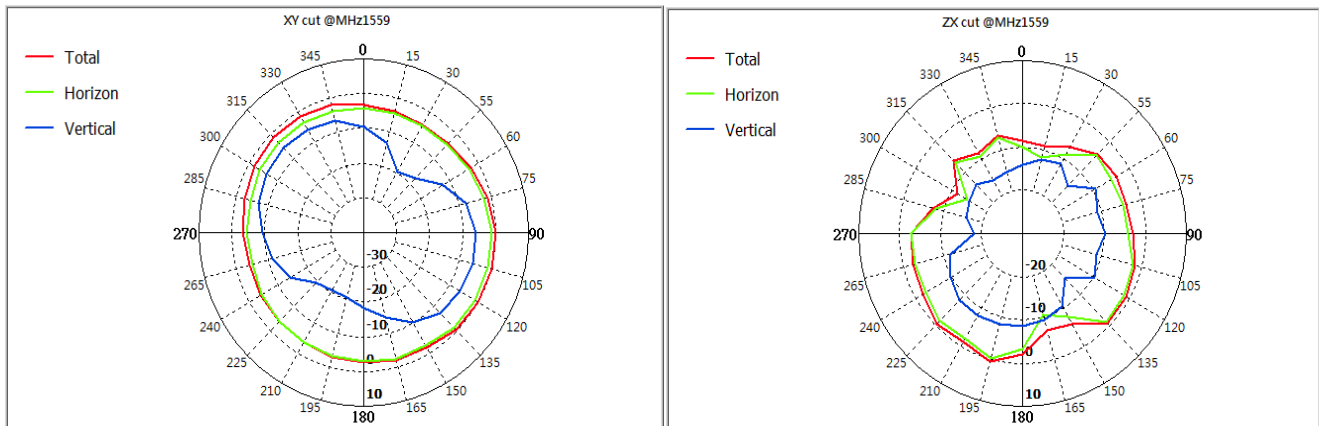
More 1/2

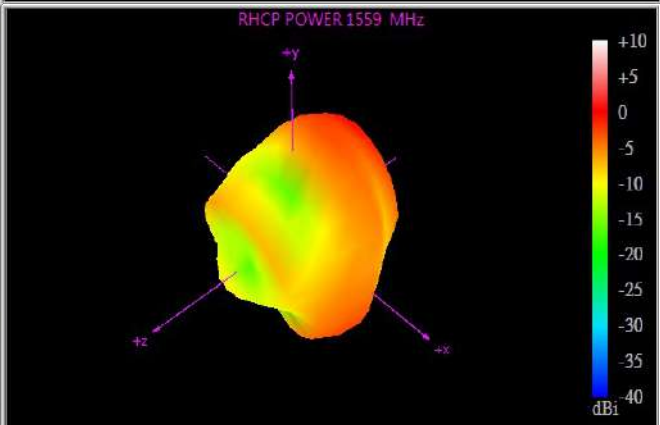
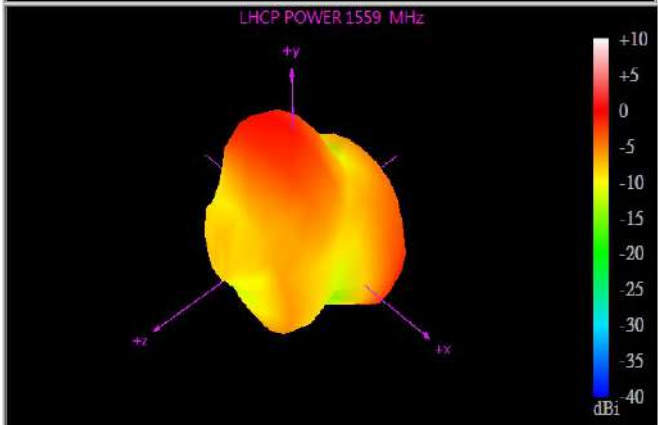
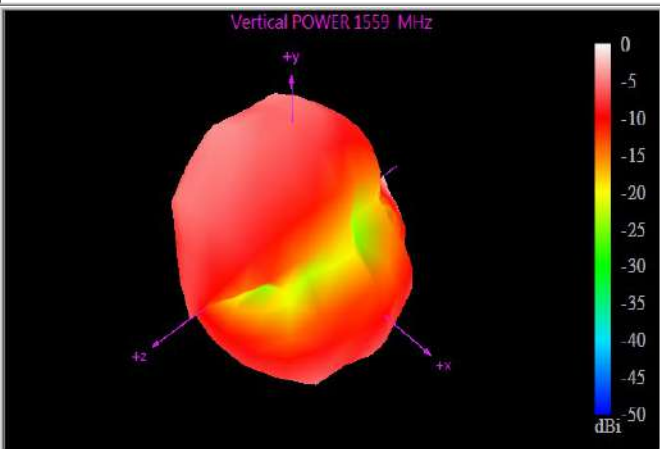
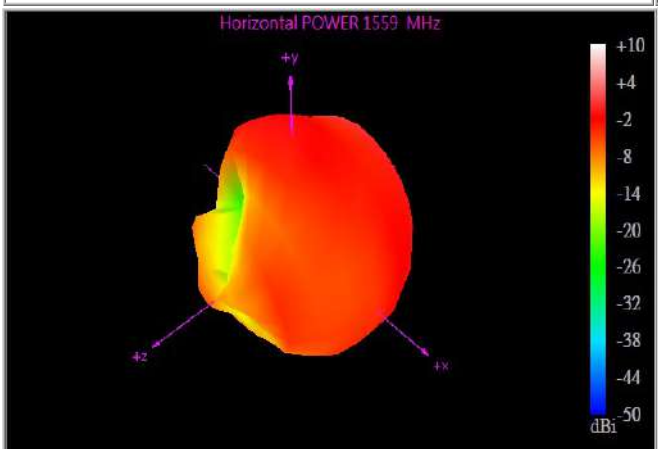
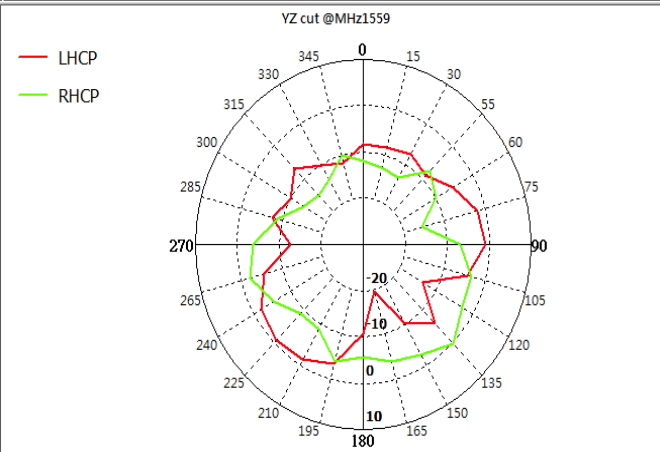
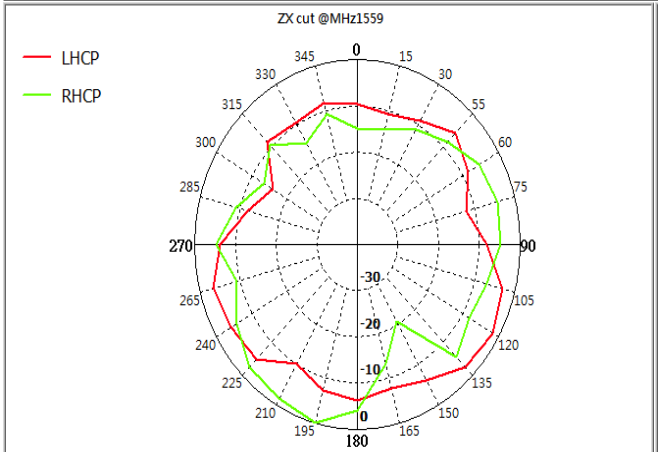
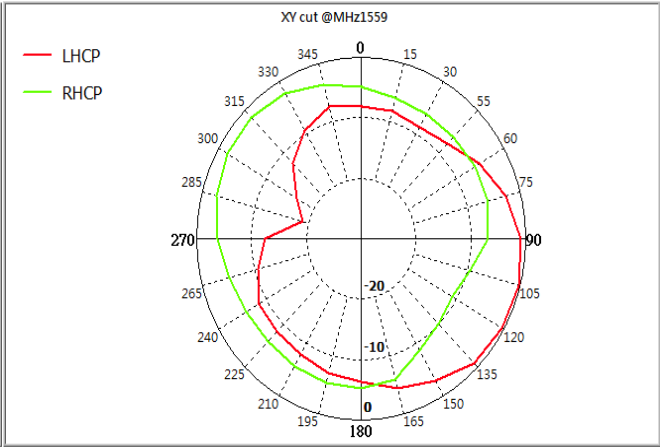
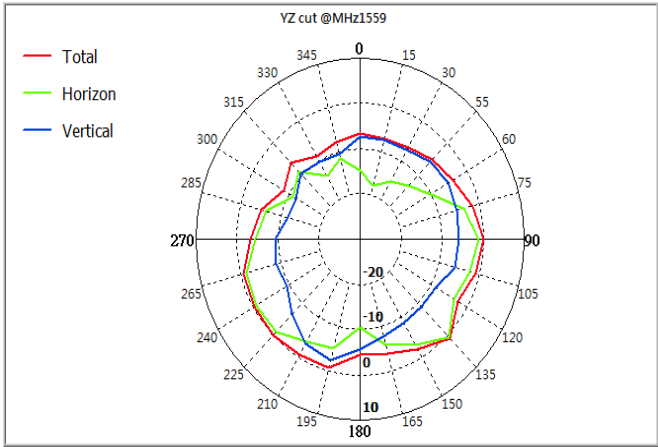


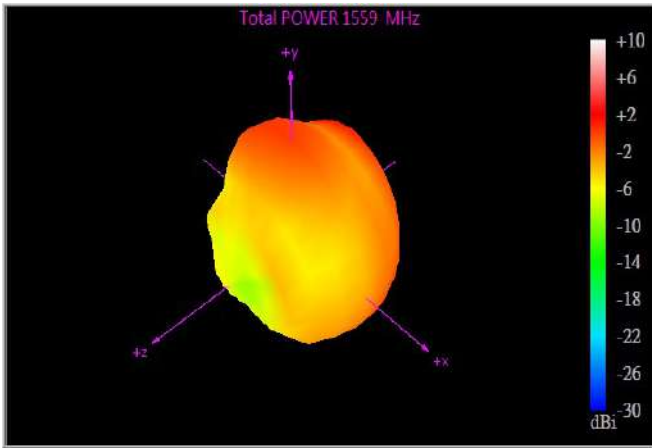
3D Total

Frequency (MHz)	Upper Hem. PRP (dBm)	Lower HEM. PRP (dBm)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Tot. Rad.Pwr. (dBm)
1500 MHz	-7.81	-4.99	-3.16	48.25	0.90	-3.16
1510 MHz	-7.25	-4.28	-2.51	56.15	1.67	-2.51
1520 MHz	-7.78	-4.68	-2.95	50.70	1.16	-2.95
1530 MHz	-7.64	-4.31	-2.65	54.27	1.59	-2.65
1540 MHz	-7.67	-4.21	-2.59	55.04	1.83	-2.59
1550 MHz	-8.17	-4.67	-3.07	49.37	1.47	-3.07
1559 MHz	-8.18	-4.57	-3.00	50.07	1.72	-3.00
1561 MHz	-8.26	-4.58	-3.03	49.75	1.71	-3.03
1575 MHz	-7.76	-4.03	-2.50	56.23	2.43	-2.50
1602 MHz	-8.06	-4.29	-2.76	52.91	2.31	-2.76
1610 MHz	-8.10	-4.44	-2.88	51.47	2.14	-2.88
1616 MHz	-8.21	-4.41	-2.90	51.33	2.28	-2.90
1620 MHz	-8.27	-4.53	-3.00	50.13	2.27	-3.00
1626 MHz	-8.46	-4.65	-3.14	48.51	1.95	-3.14
1630 MHz	-8.29	-4.45	-2.95	50.70	2.27	-2.95
1650 MHz	-8.20	-4.43	-2.91	51.22	2.15	-2.91
1680 MHz	-8.27	-4.54	-3.01	50.04	2.08	-3.01
1700 MHz	-8.74	-4.83	-3.35	46.24	1.76	-3.35

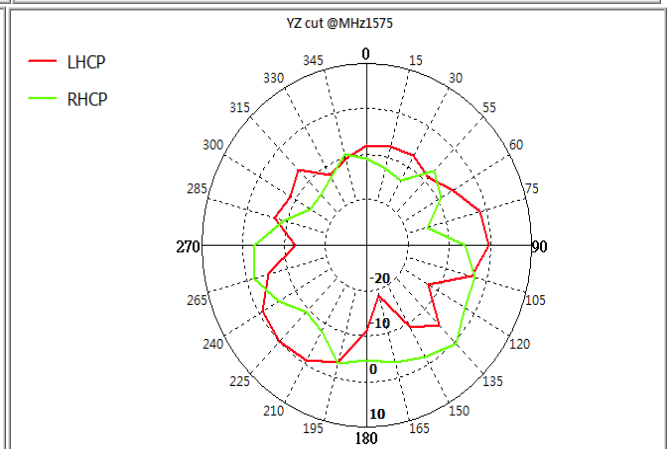
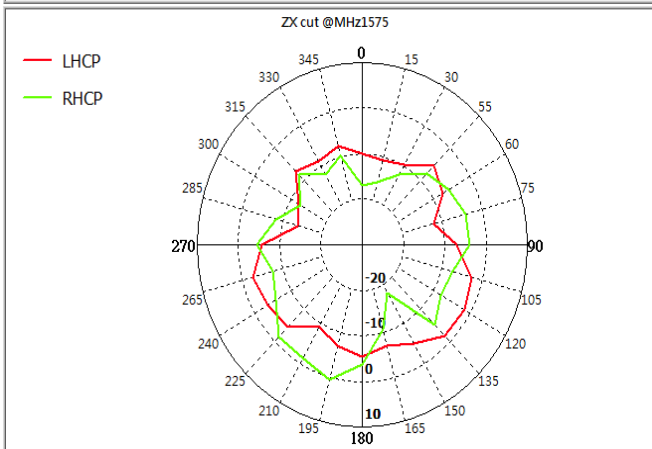
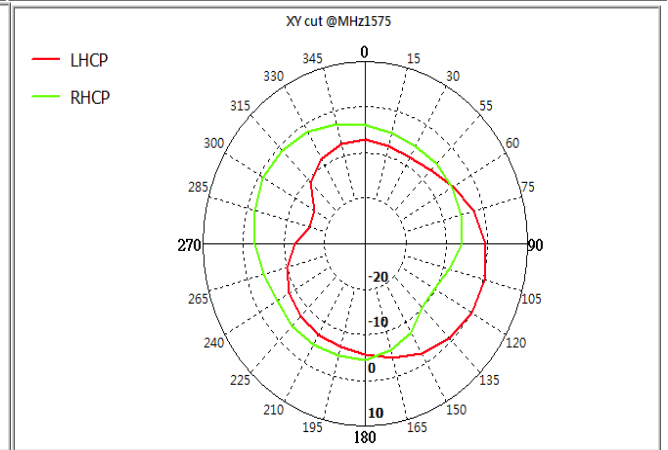
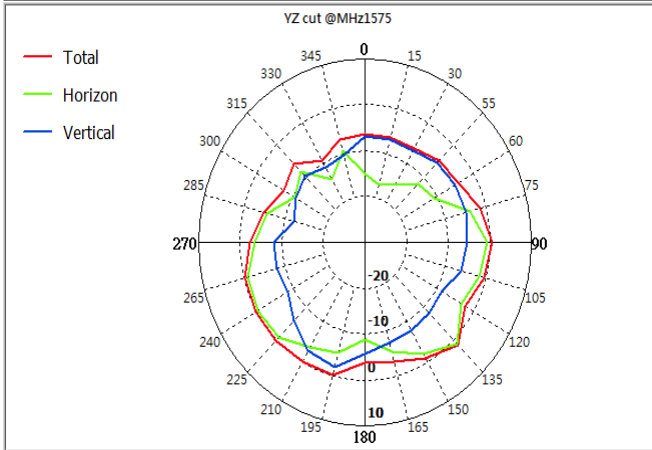
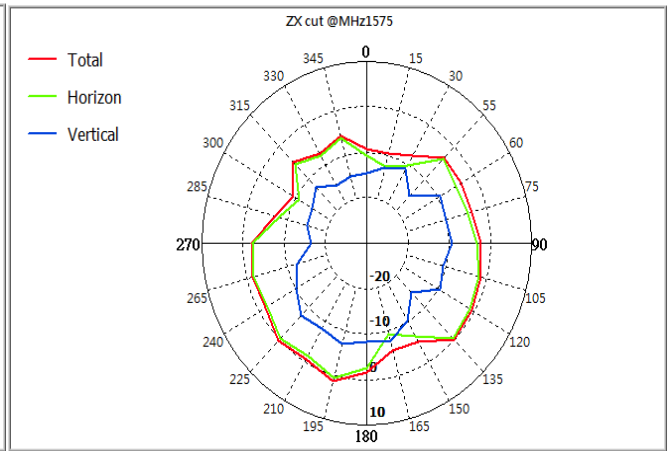
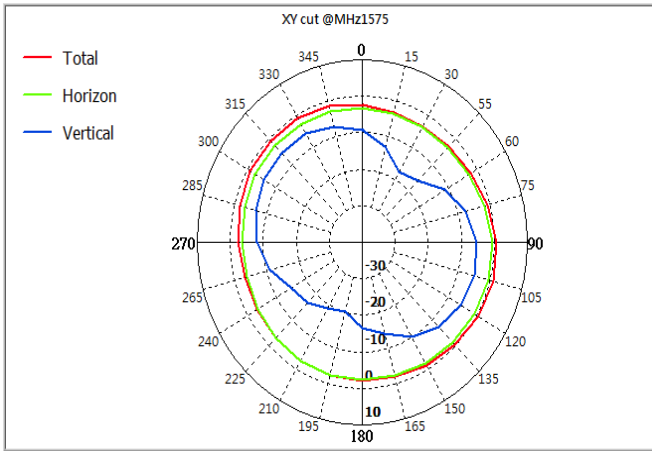
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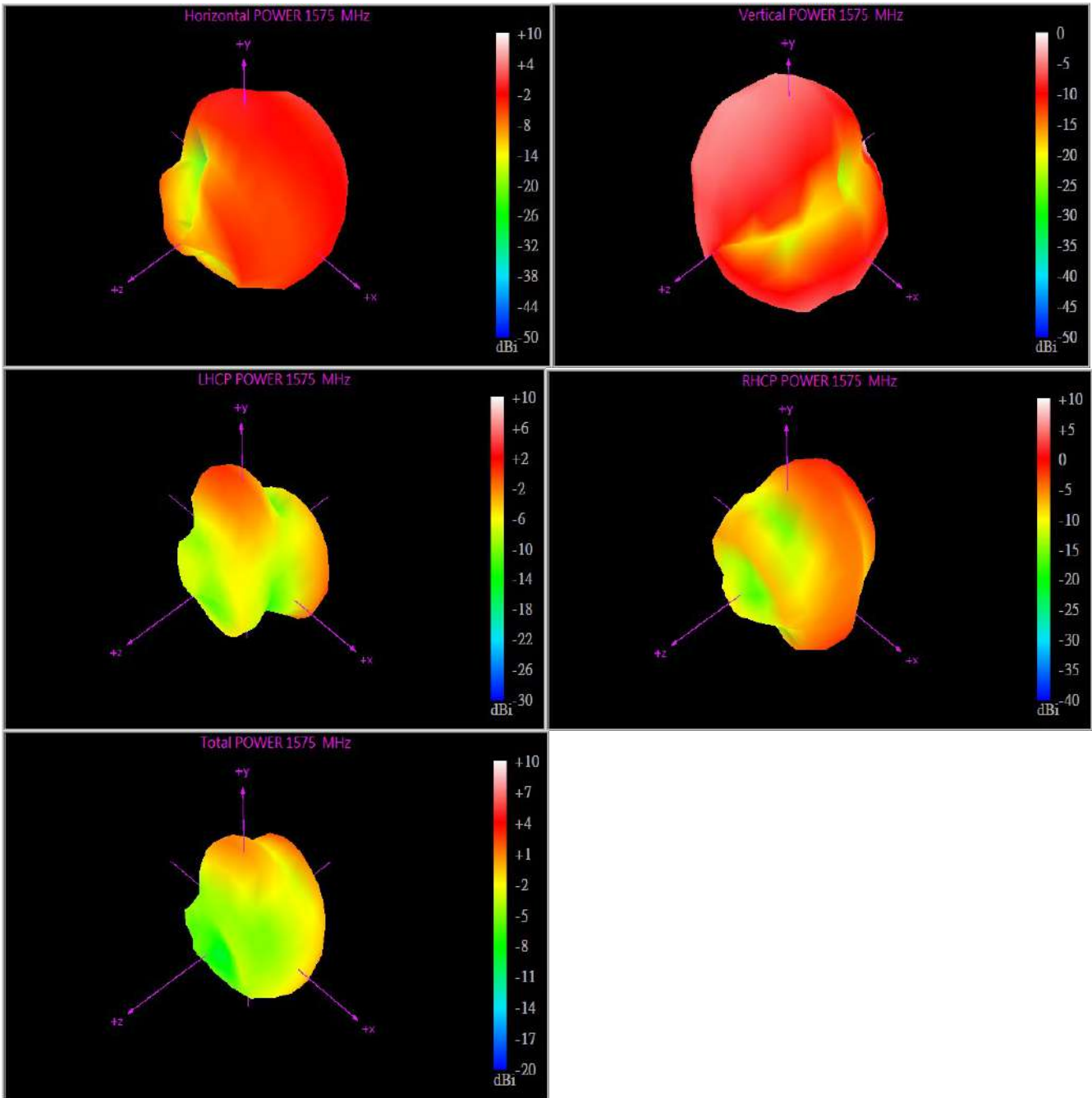




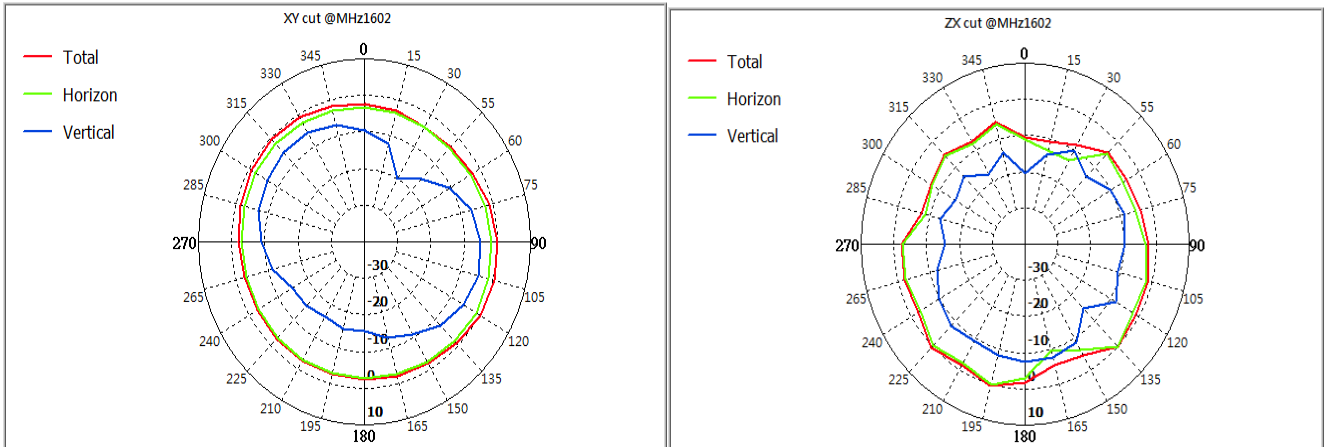


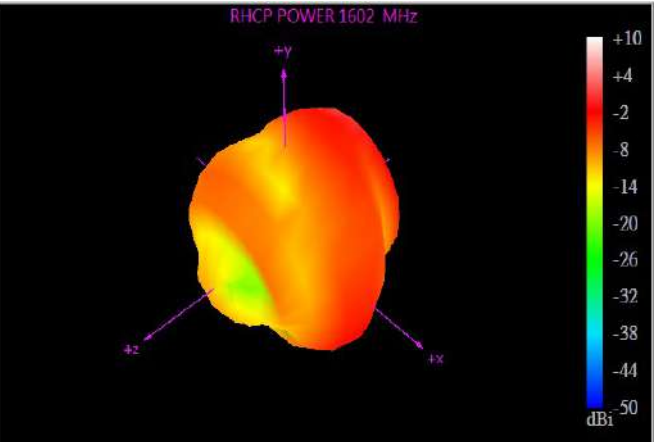
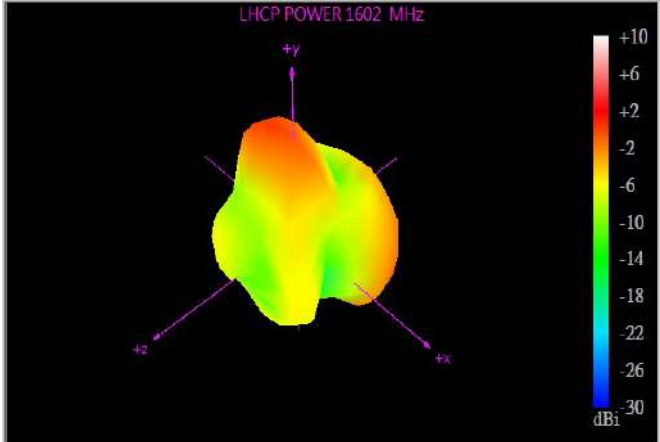
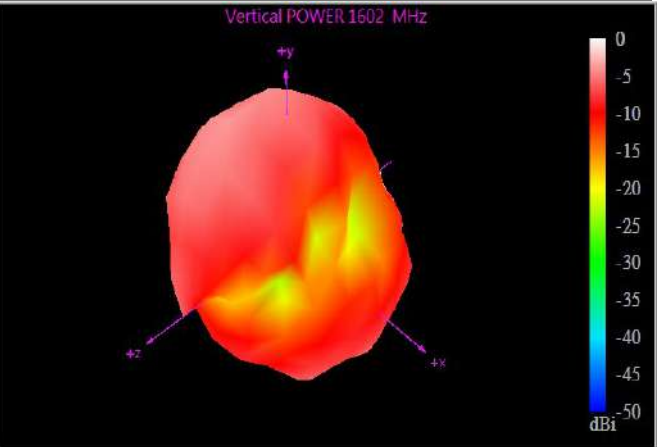
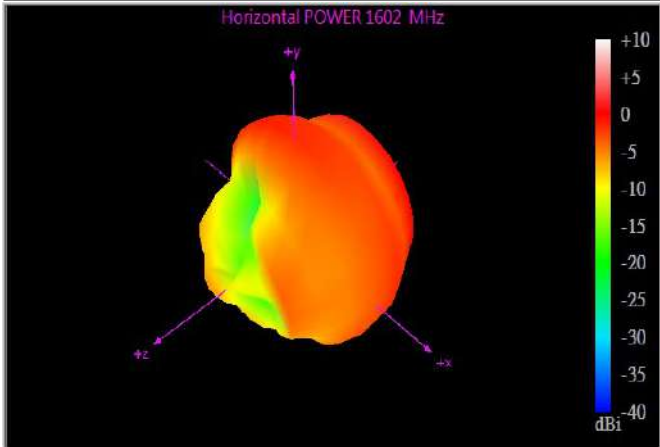
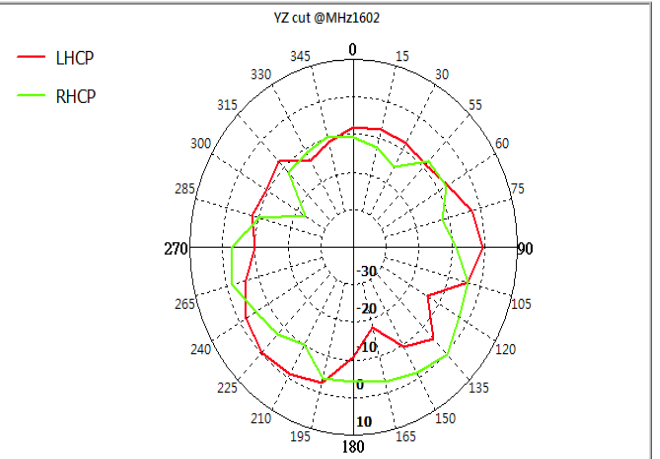
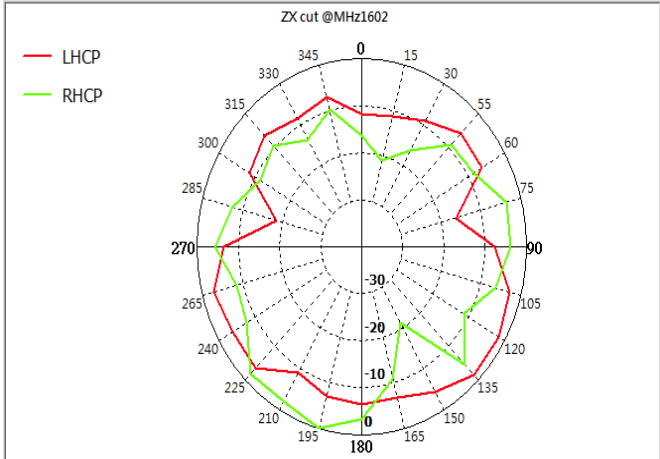
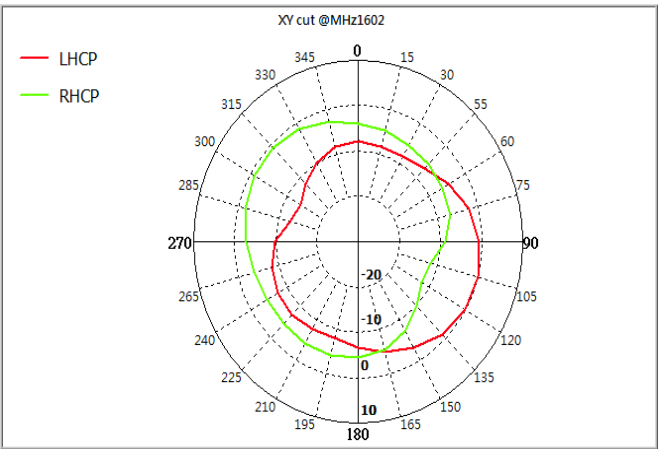
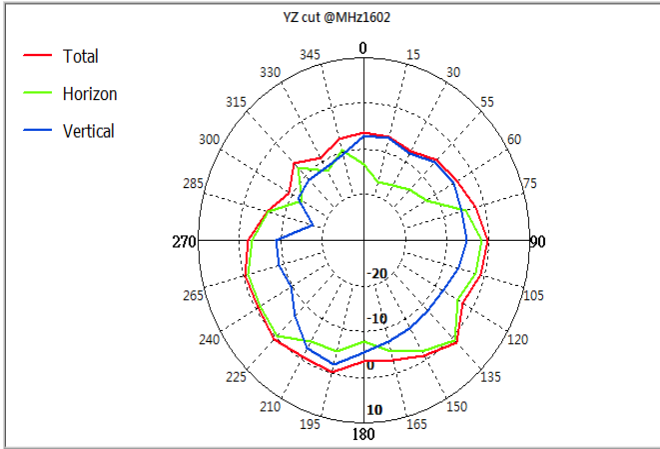
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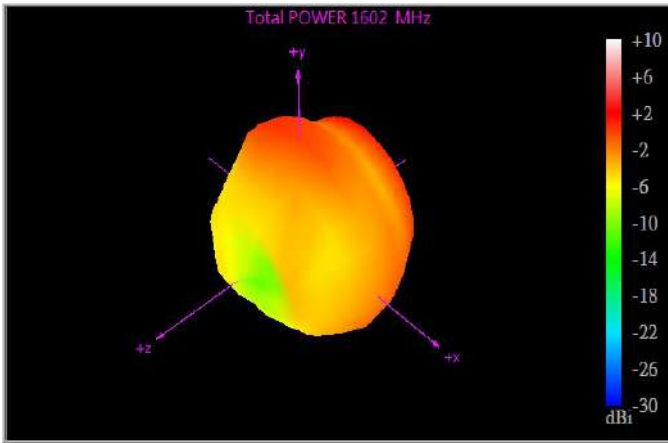




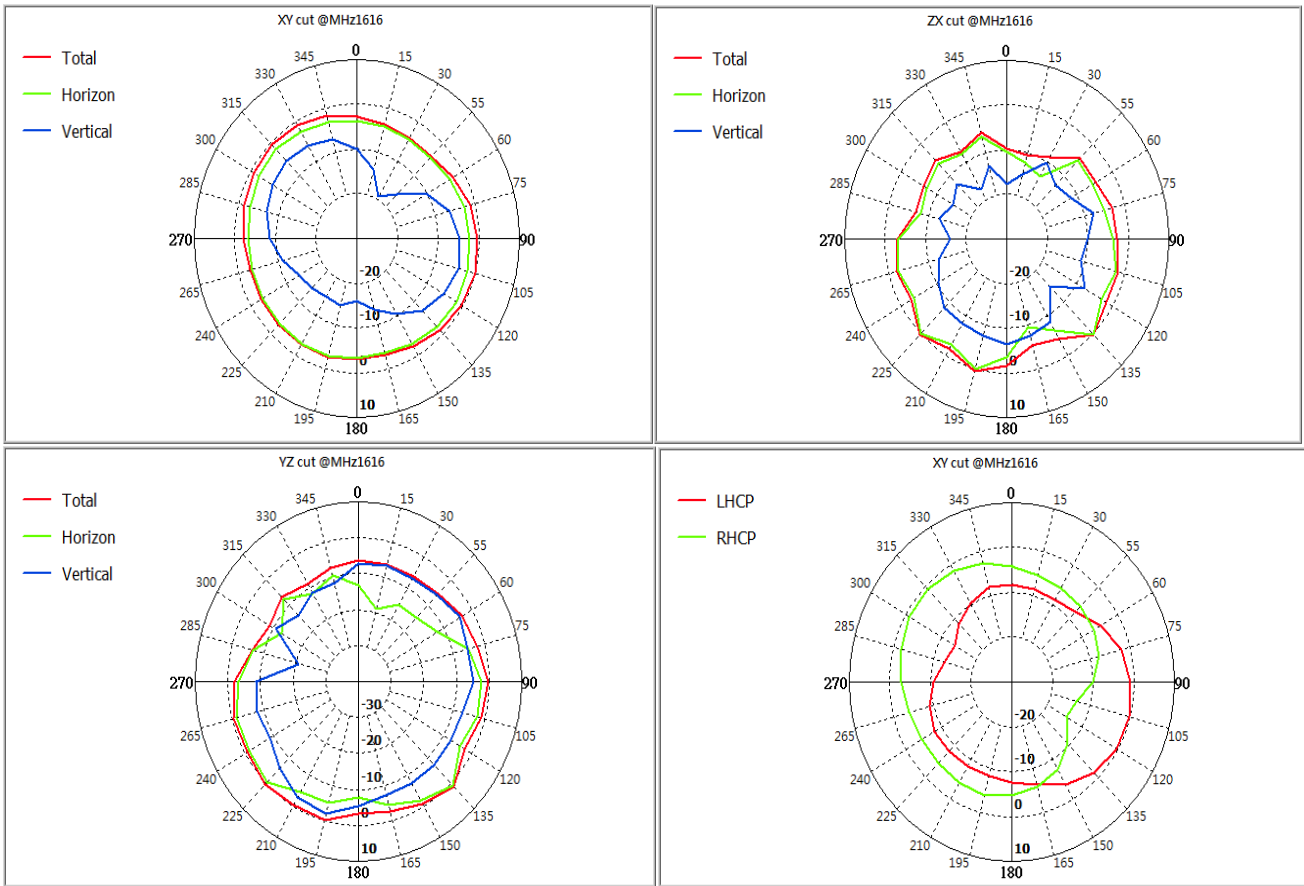
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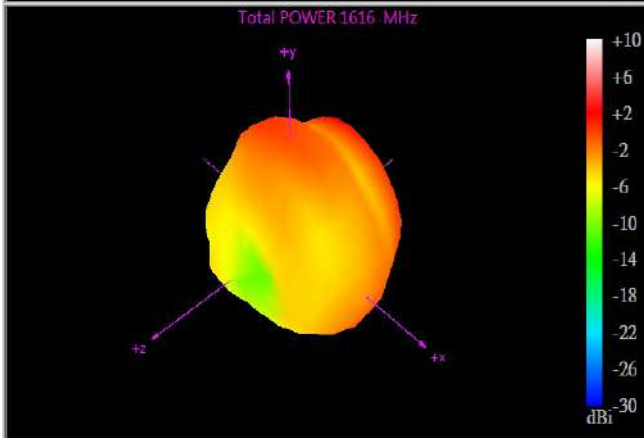
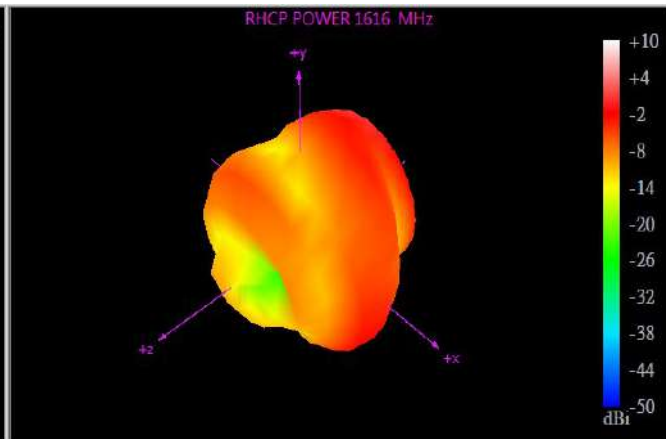
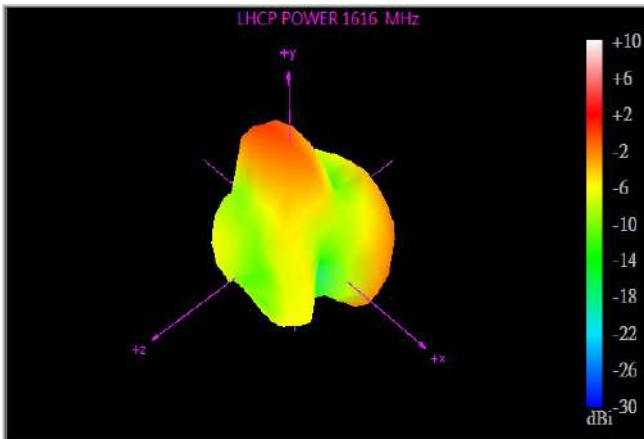
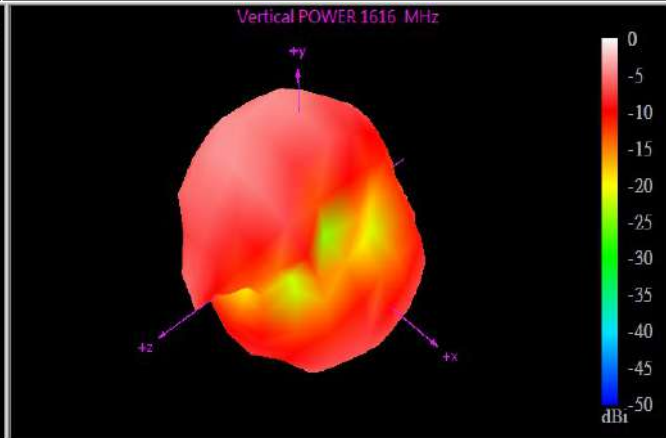
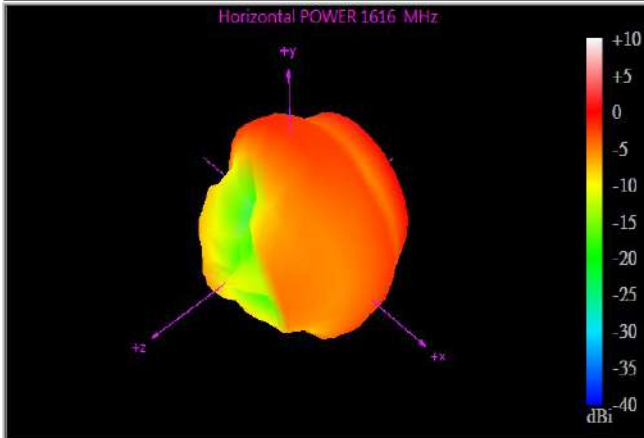
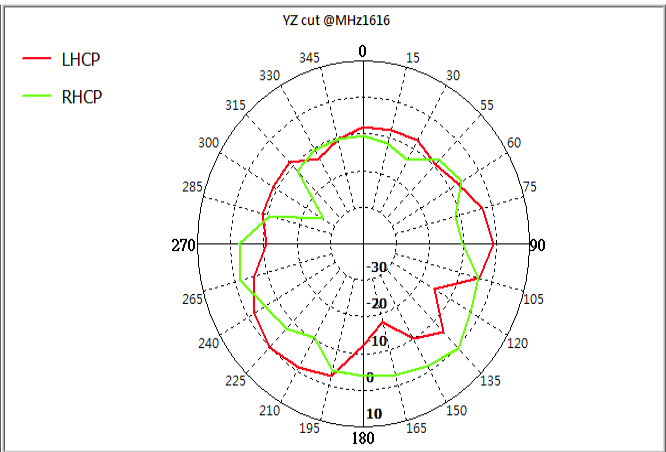
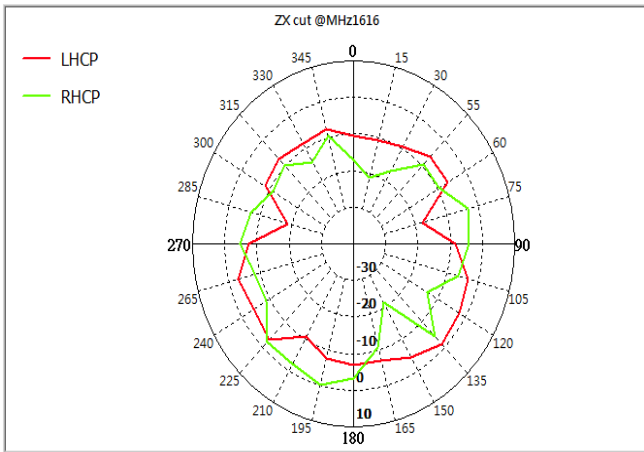




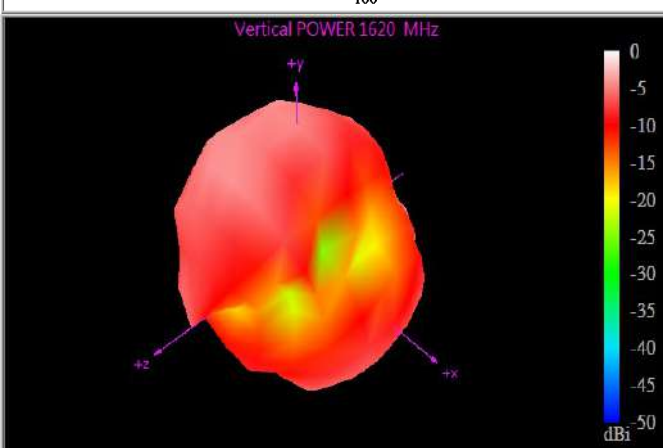
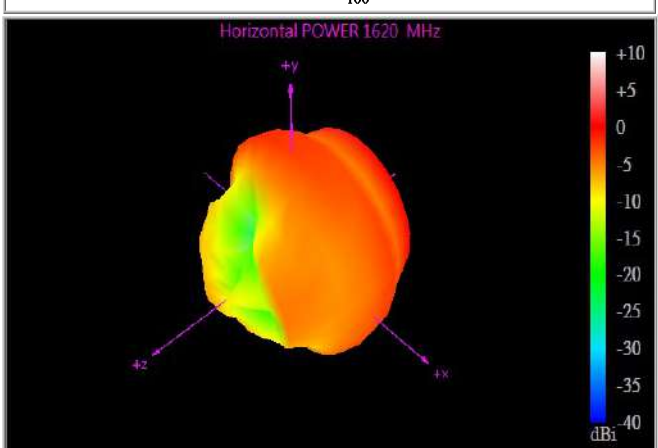
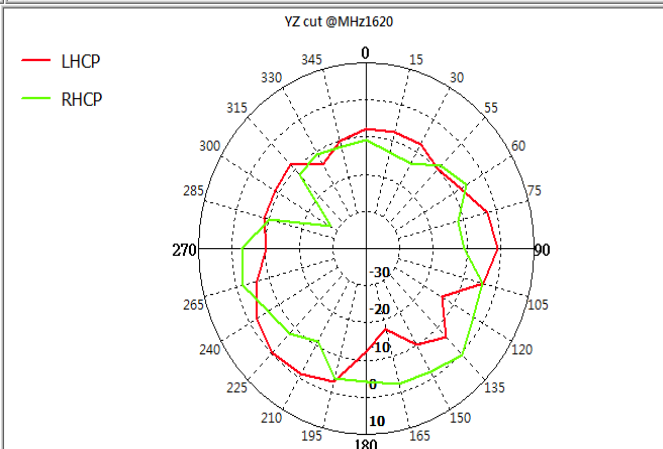
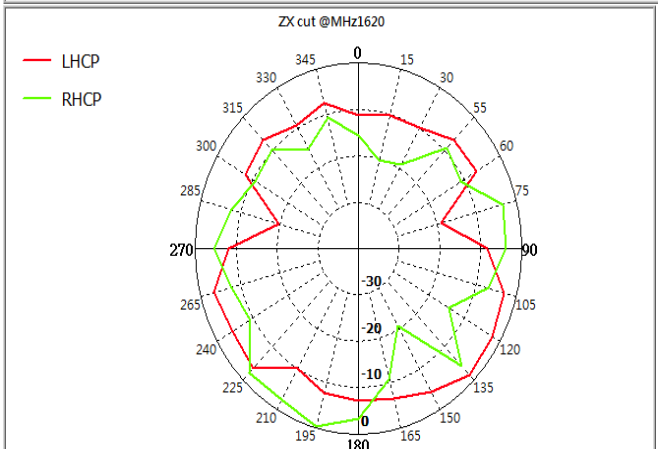
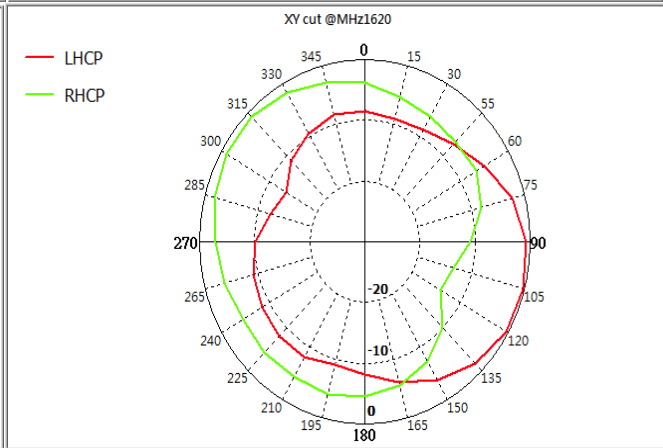
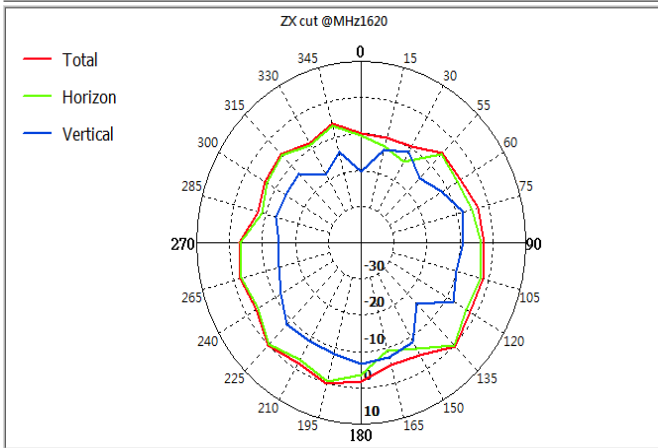
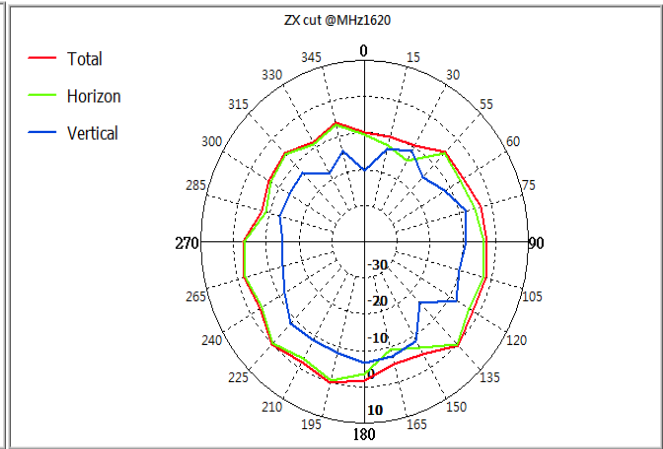
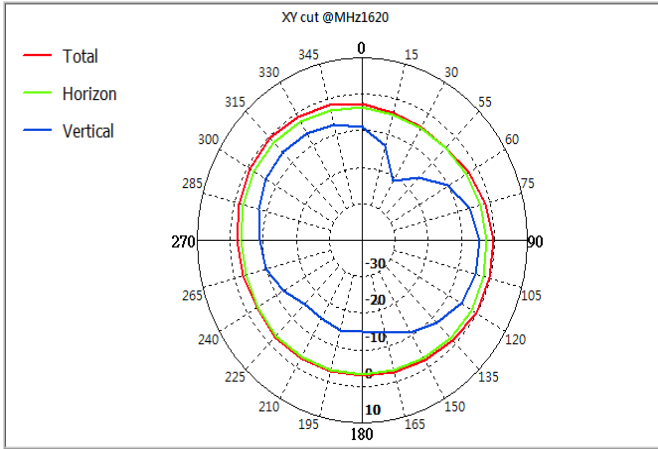


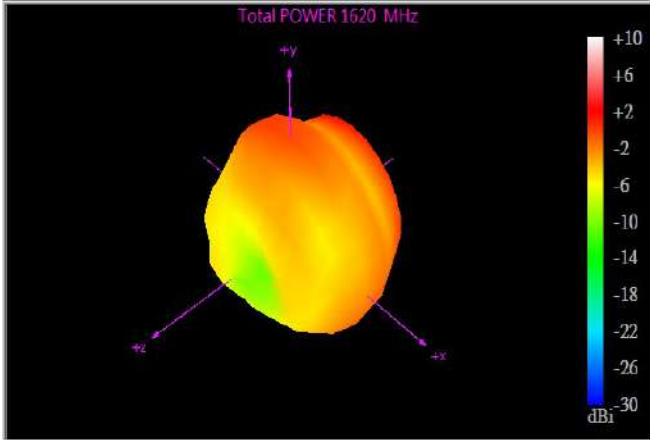
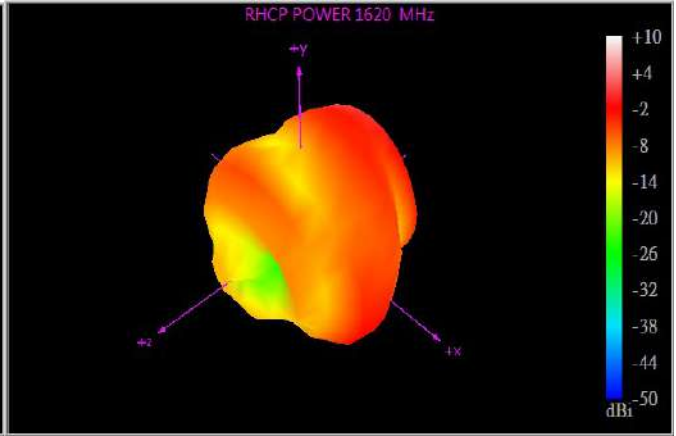
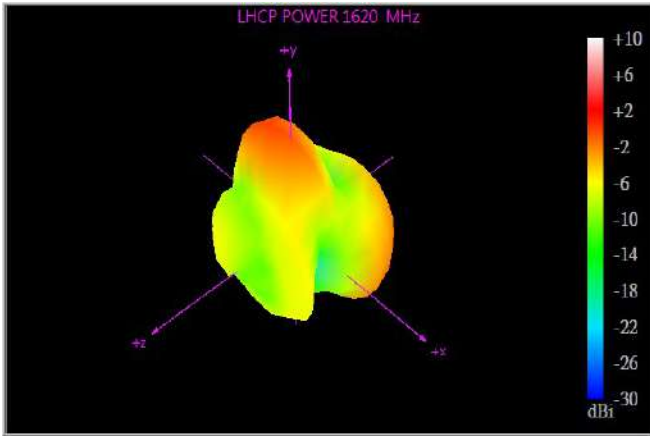
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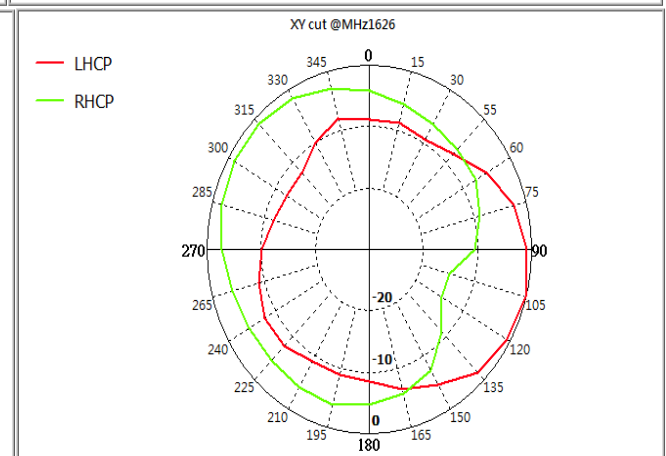
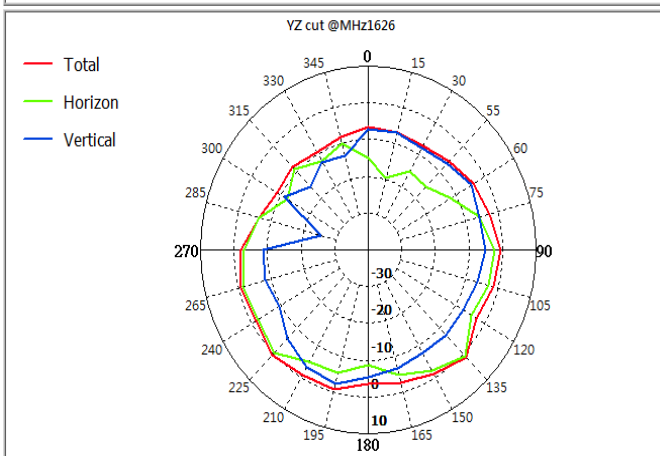
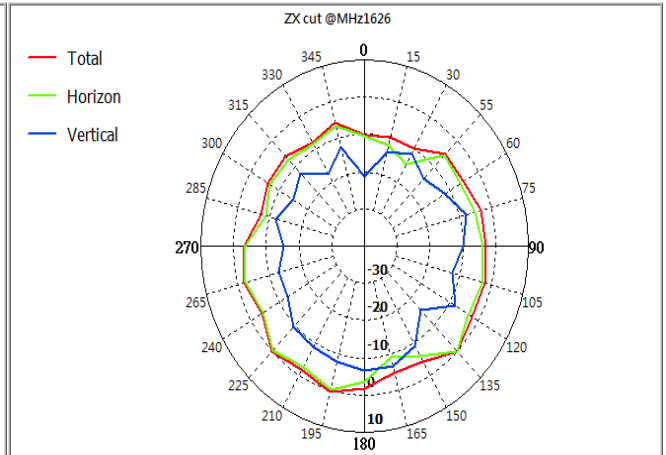
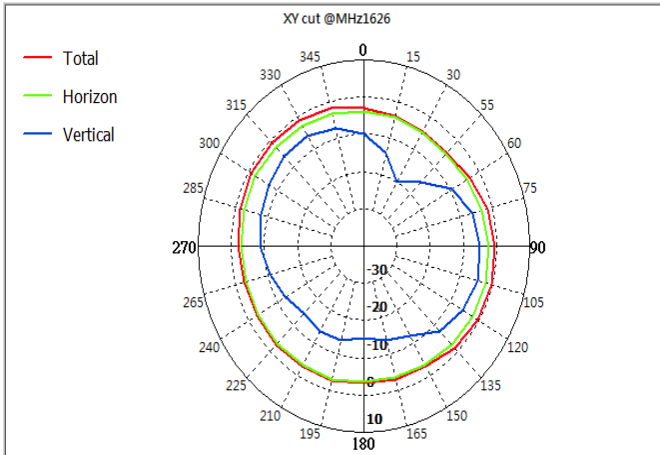


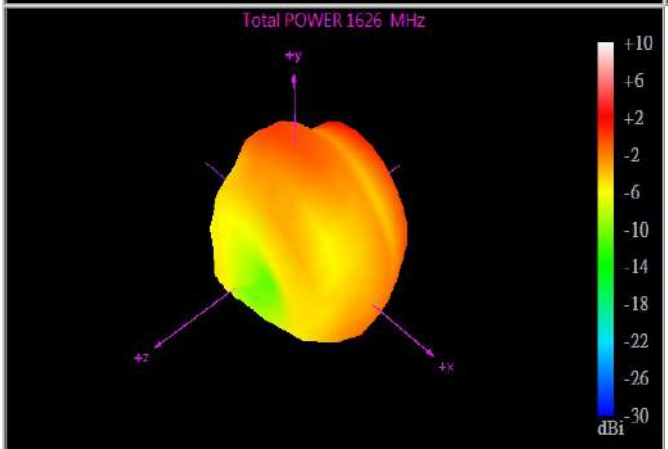
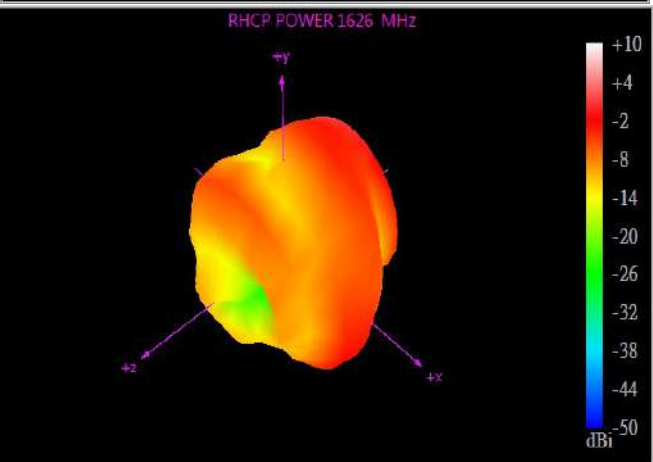
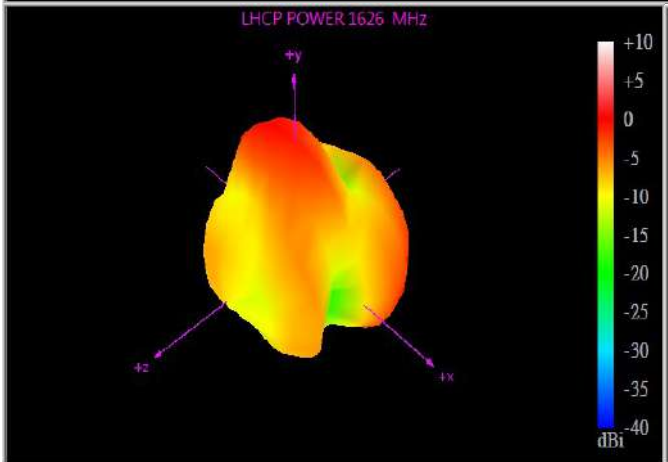
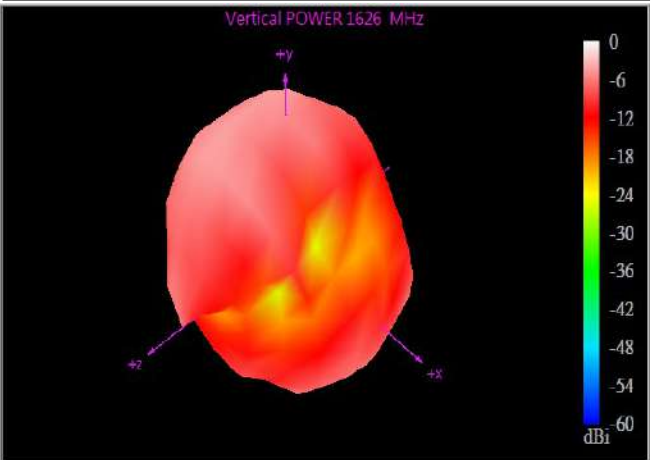
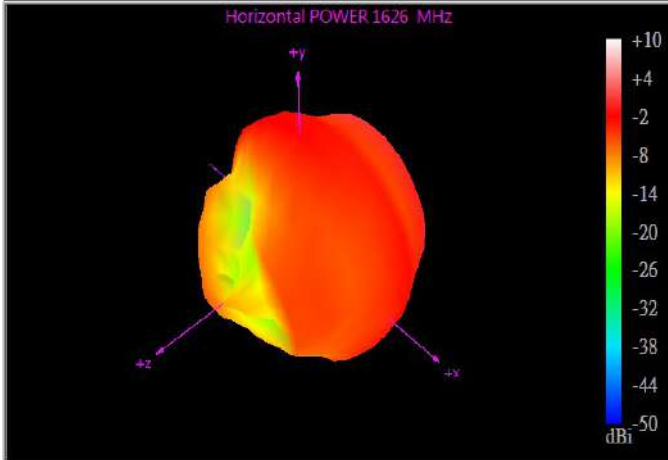
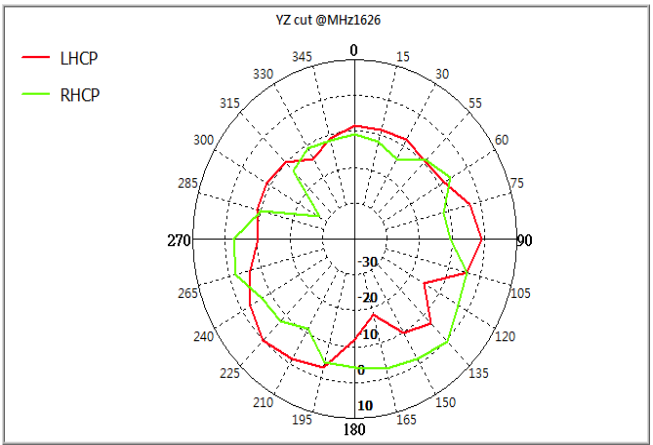
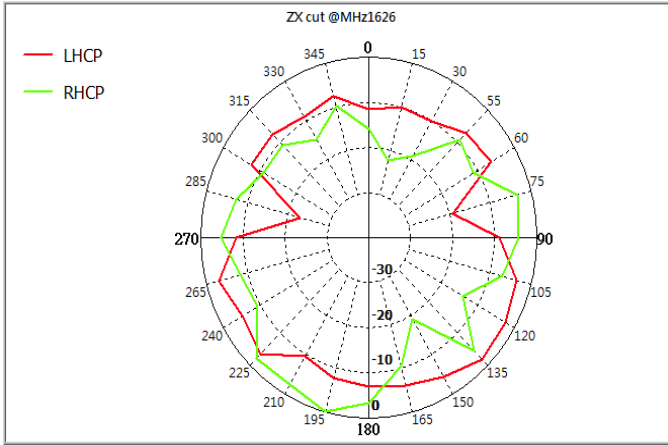
1620Mhz:





1626Mhz:





1630Mhz:

