

# 4-axis Helix BDS/GNSS/Iridium Passive Antenna

## MODEL: TH-85C



### 1.. GENERAL DESCRIPTION

Model No	P/N
TH-85C	TH85C-SMA(M)

Below is a table summarizing the antenna design specification.

#### 1.1 Electrical Properties

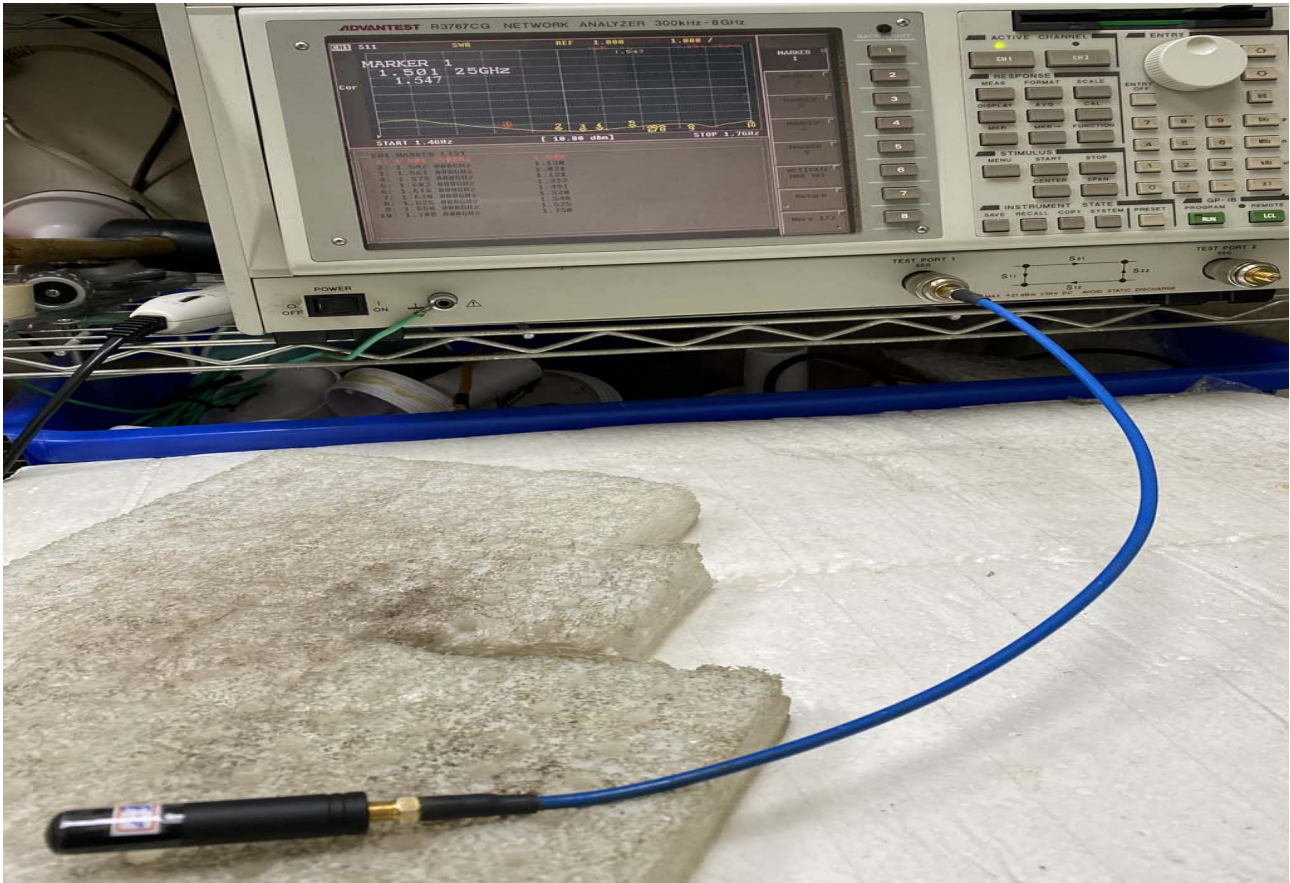
Parameter	Description
Frequency Band	1500~1700MHz
Nominal Impedance	50 ohm
Polarization	R.H.C.P. 4-axis Ceramic helix antenna
Admitted Power radiation	1W
V.S.W.R	2.0:1 Max
Antenna Average Gain	4 dB
Note: Gain includes the cable loss	

#### 1.2 Mechanical Properties

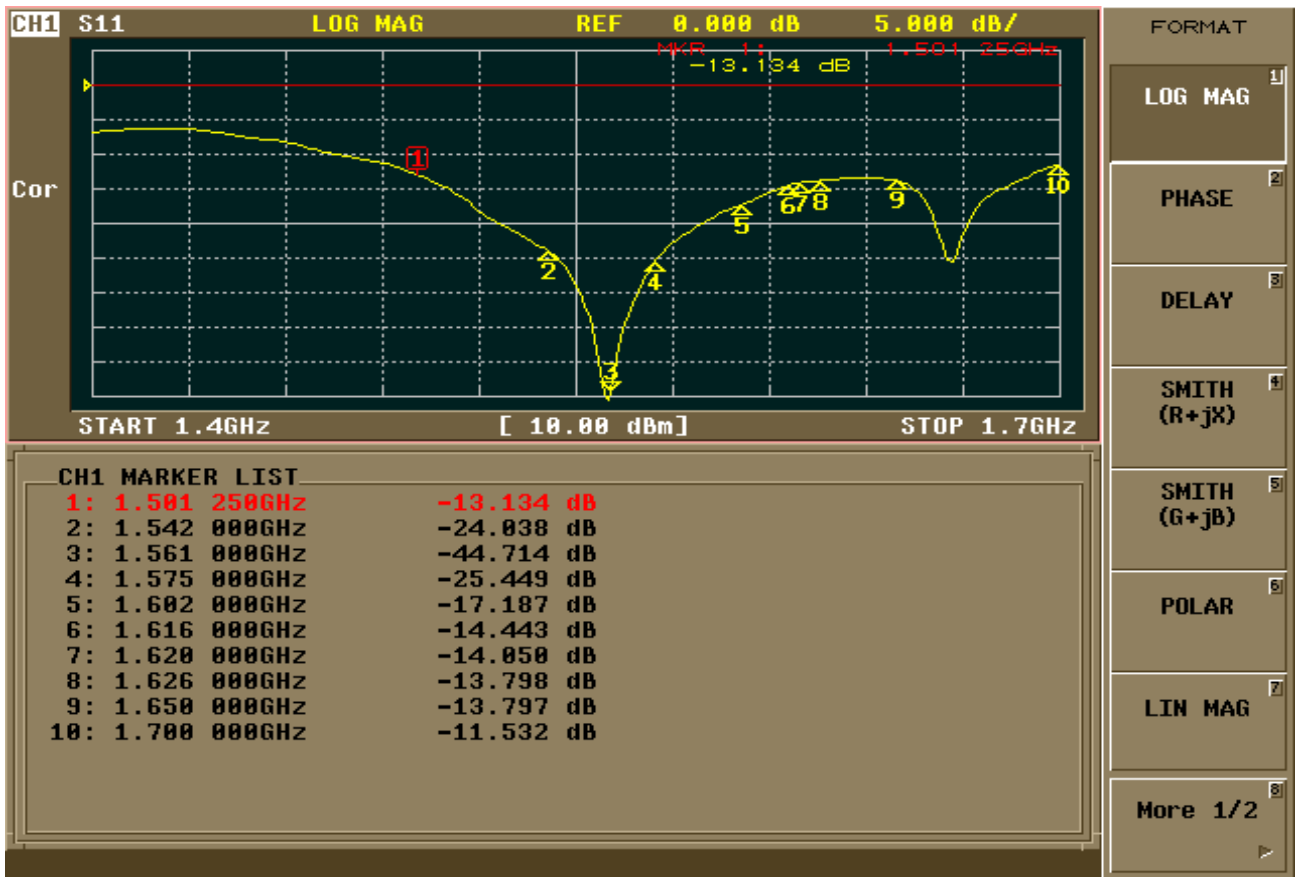
Parameter	Description
Antenna Type	External Antenna
Material	TPU
Touch Type	Screw Type
Connector Type	SMA (Male)

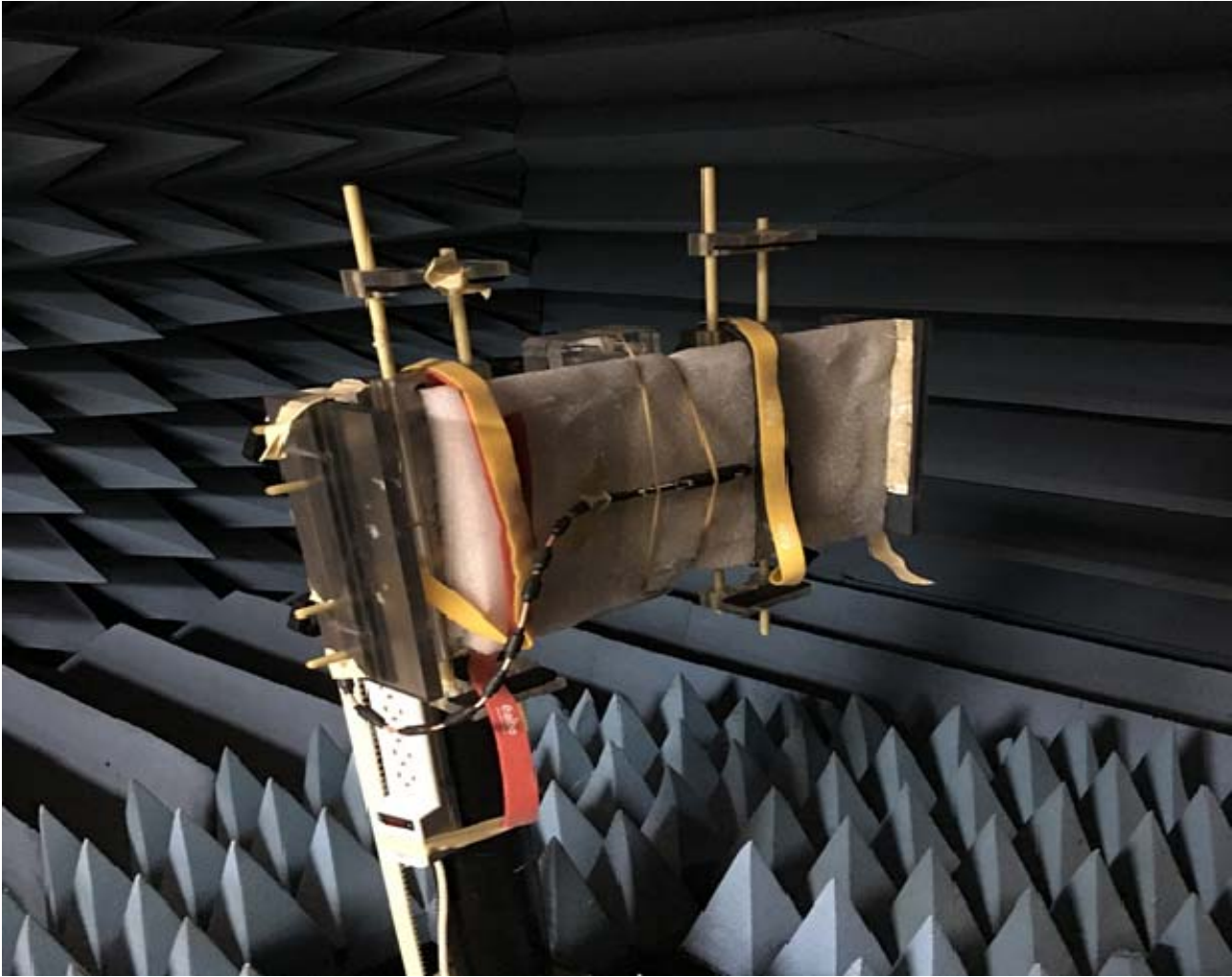
Antenna Dimensions	OD12.4 x 50.4mm±0.5
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C





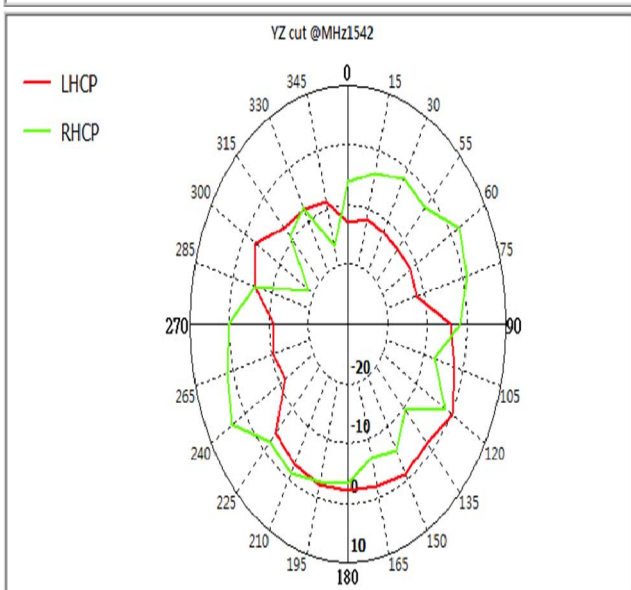
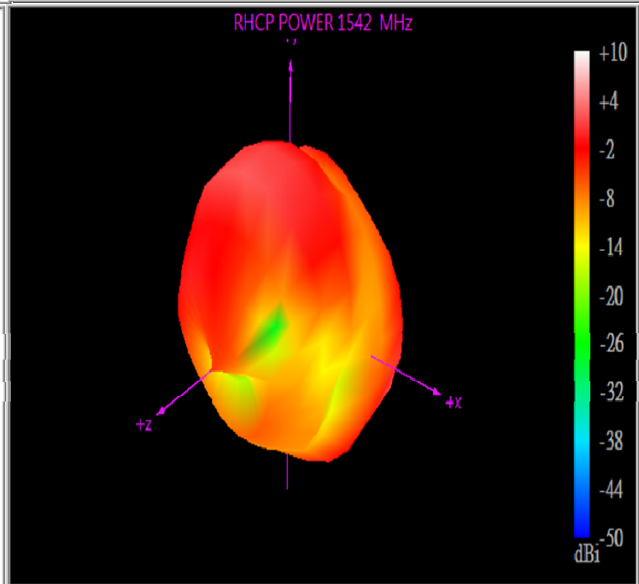
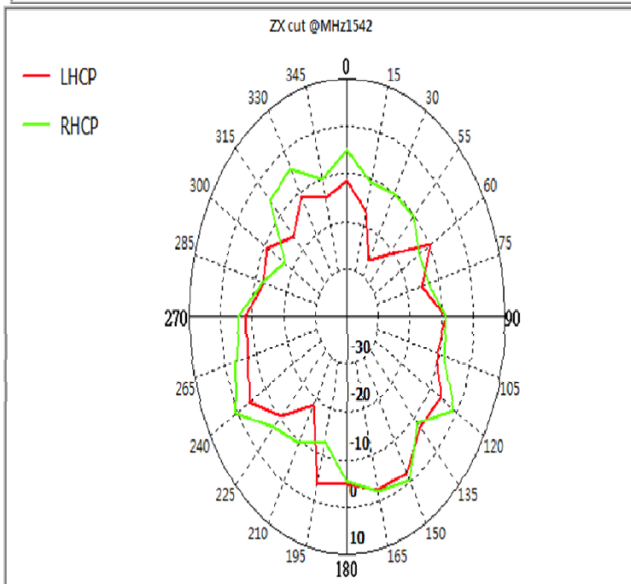
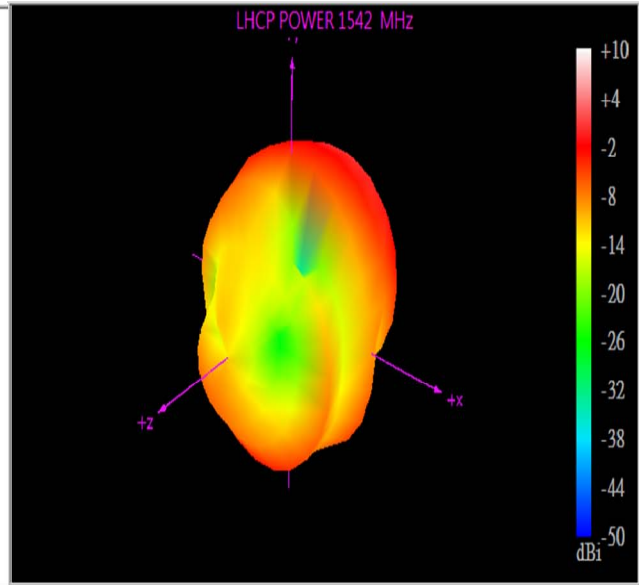
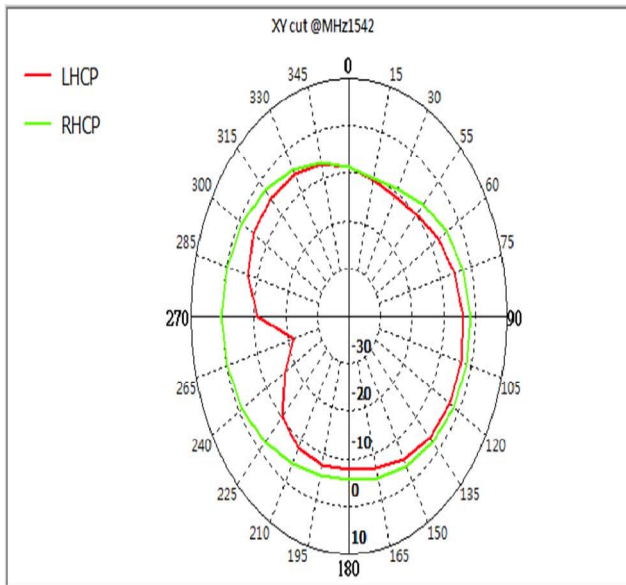




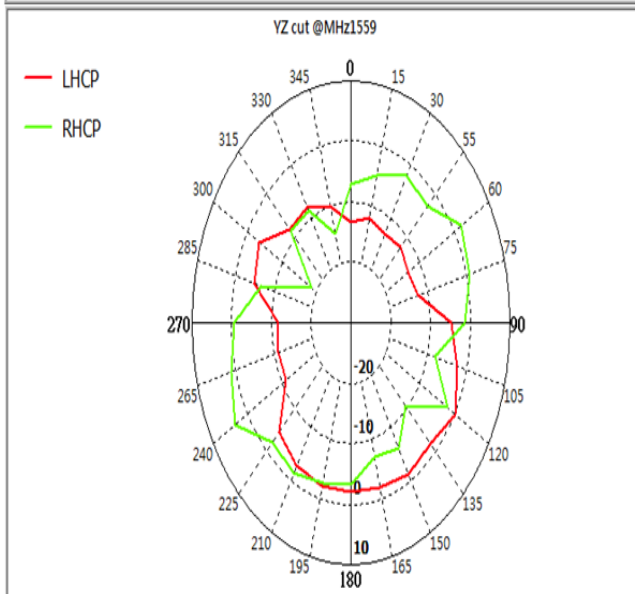
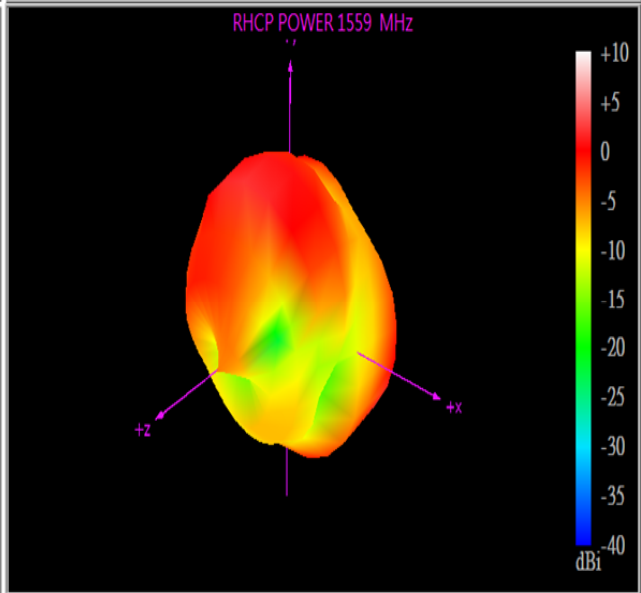
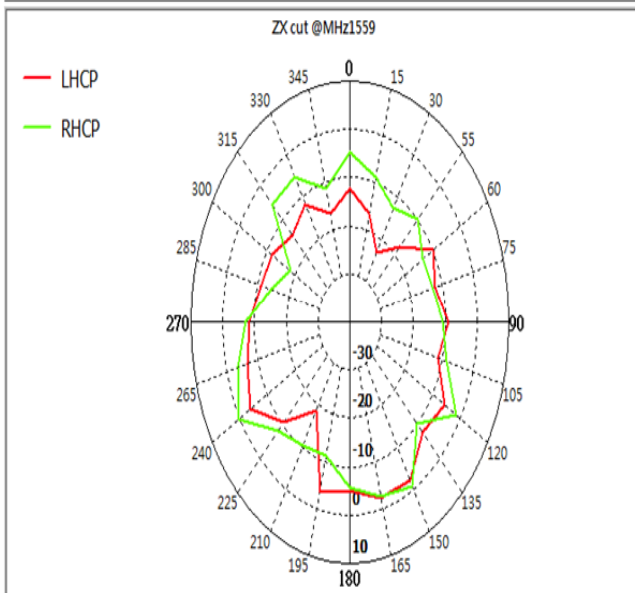
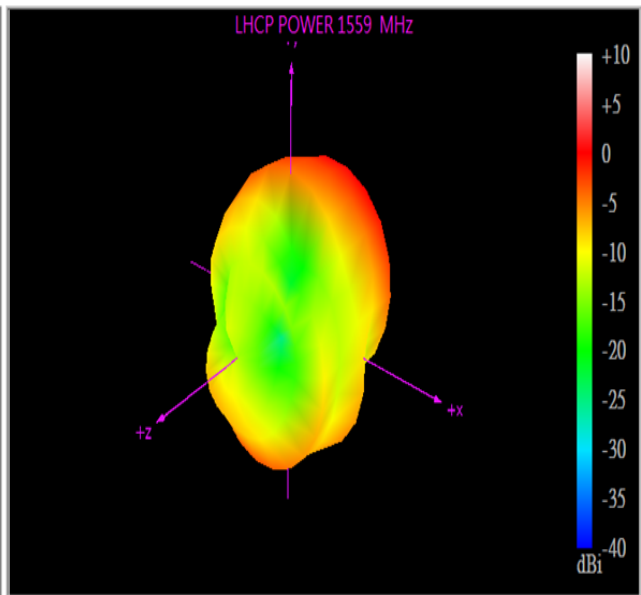
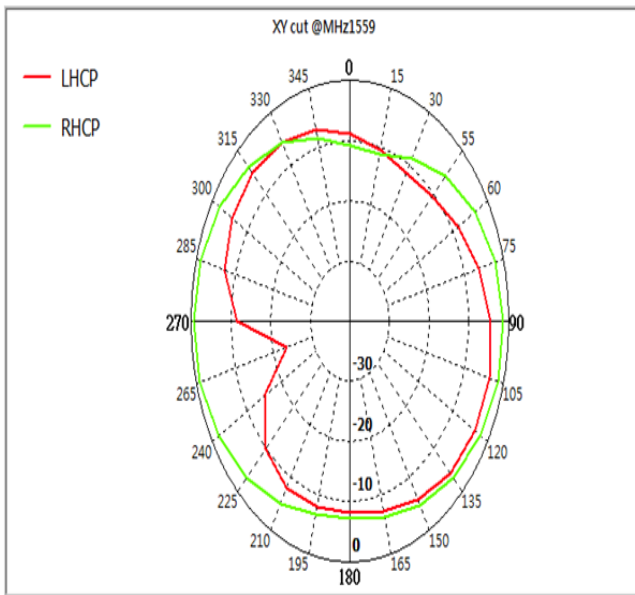


3D Total						
Frequency (MHz)	Upper Hem. PRP (dBm)	Lower HEM. PRP (dBm)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Tot. Rad.Pwr. (dBm)
1450 MHz	-8.54	-5.55	-3.78	41.88	1.57	-3.78
1500 MHz	-8.15	-5.22	-3.43	45.36	2.05	-3.43
1542 MHz	-6.37	-3.41	-1.63	68.71	4.03	-1.63
1559 MHz	-6.68	-3.63	-1.88	64.88	3.82	-1.88
1561 MHz	-6.68	-3.61	-1.87	65.01	3.85	-1.87
1575 MHz	-6.67	-3.50	-1.79	66.21	4.03	-1.79
1602 MHz	-6.89	-3.49	-1.86	65.22	4.16	-1.86
1616 MHz	-7.58	-4.07	-2.47	56.62	3.64	-2.47
1620 MHz	-7.68	-4.13	-2.54	55.69	3.58	-2.54
1626 MHz	-7.93	-4.33	-2.76	53.00	3.37	-2.76
1630 MHz	-7.92	-4.29	-2.73	53.35	3.41	-2.73
1642 MHz	-8.96	-5.25	-3.71	42.54	2.34	-3.71
1650 MHz	-9.41	-5.68	-4.15	38.49	1.82	-4.15
1700 MHz	-8.09	-4.23	-2.73	53.32	2.31	-2.73

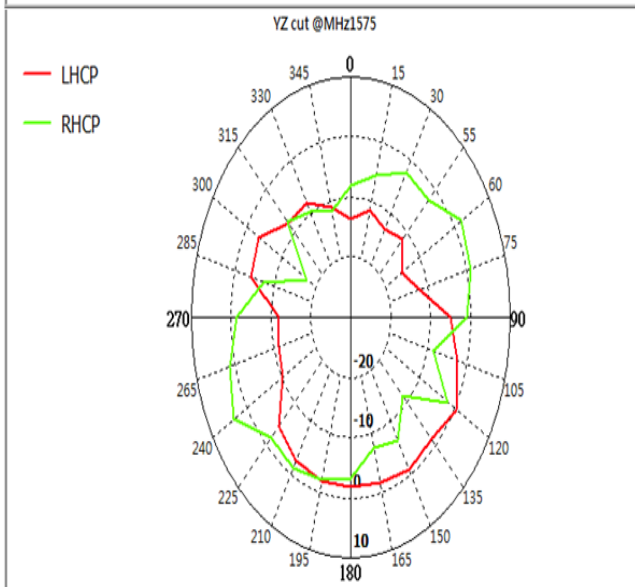
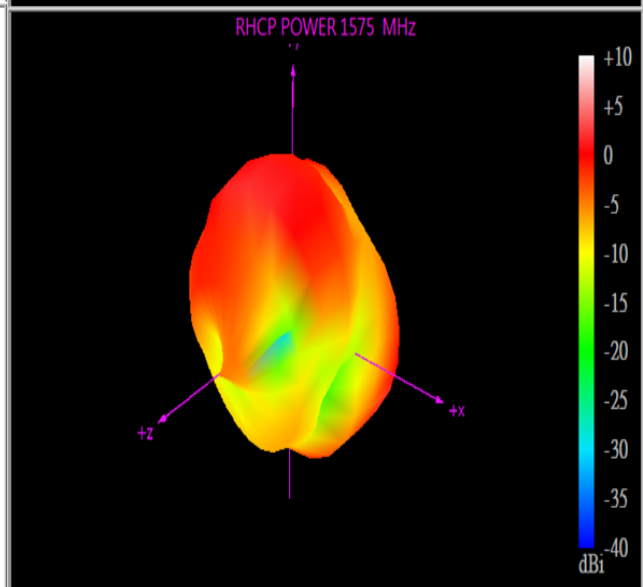
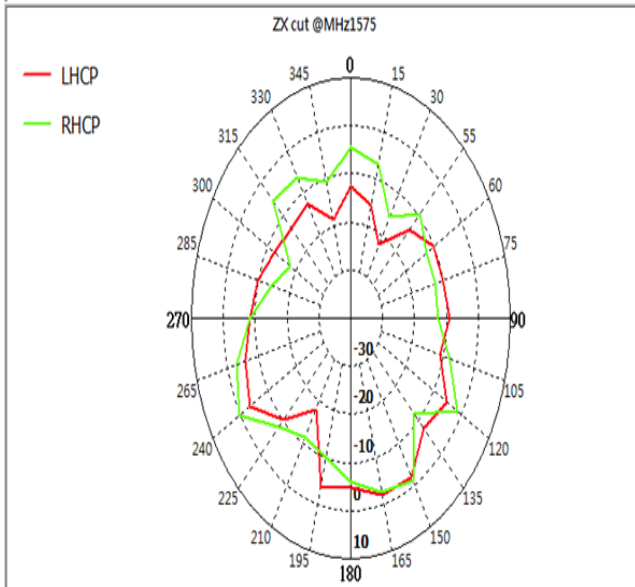
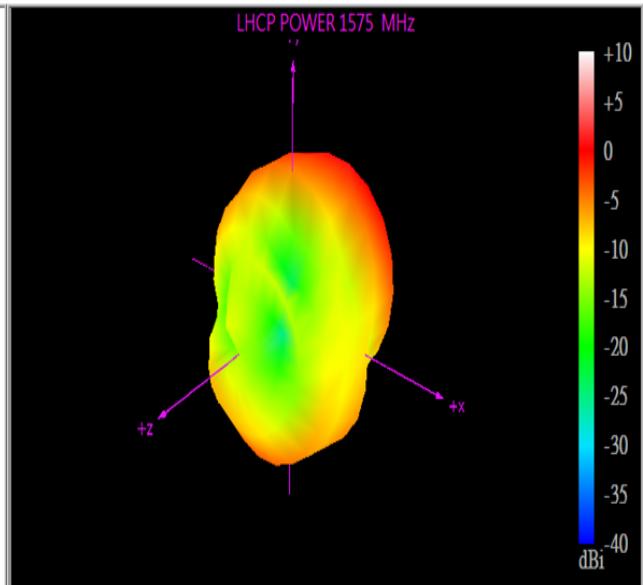
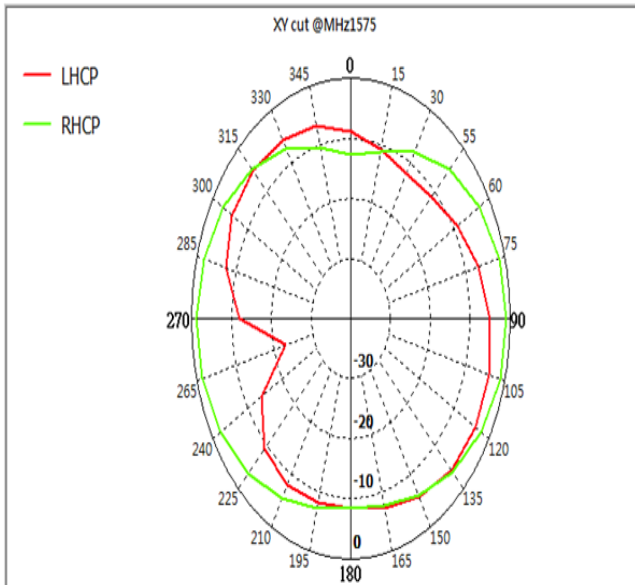
# 1542Mhz:



# 1559Mhz :

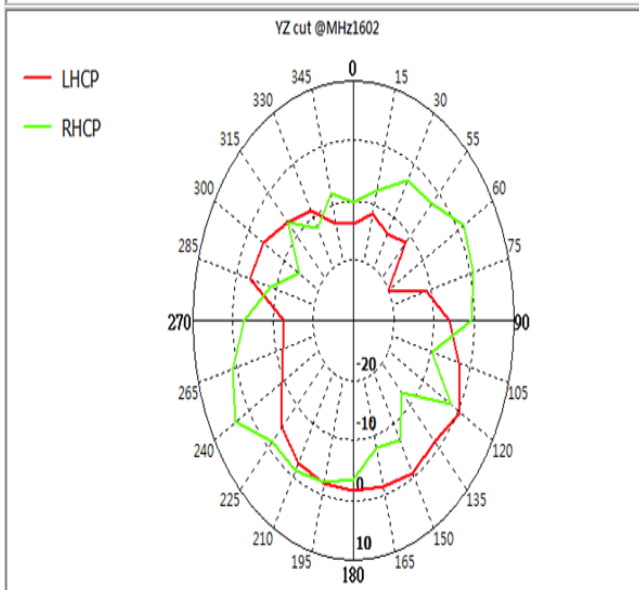
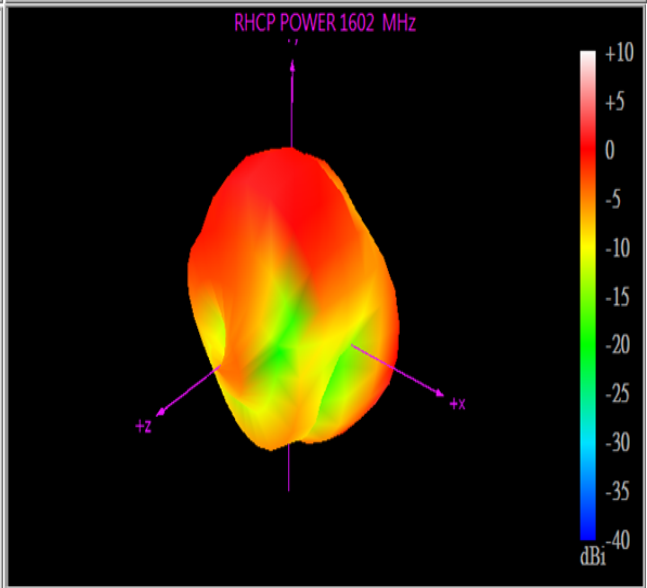
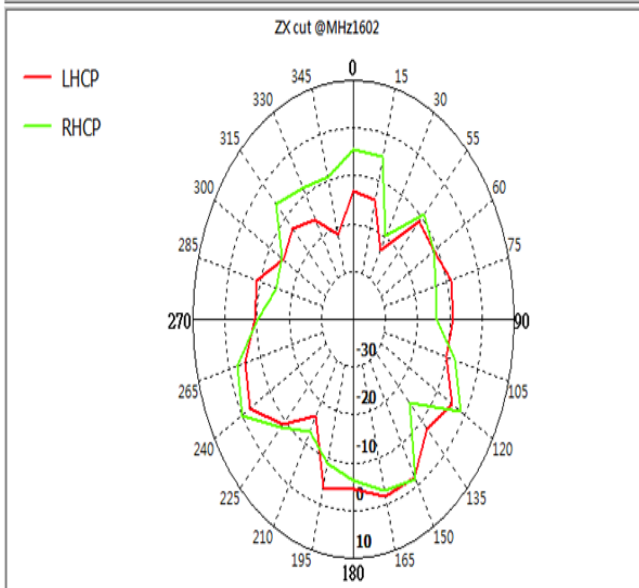
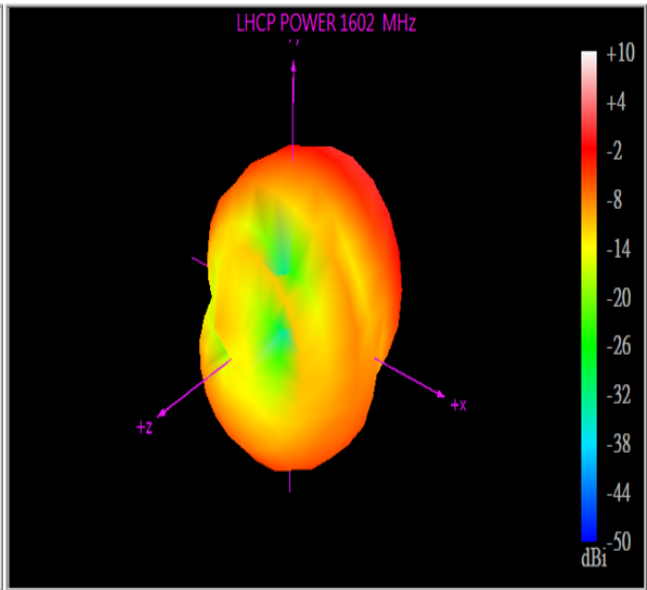
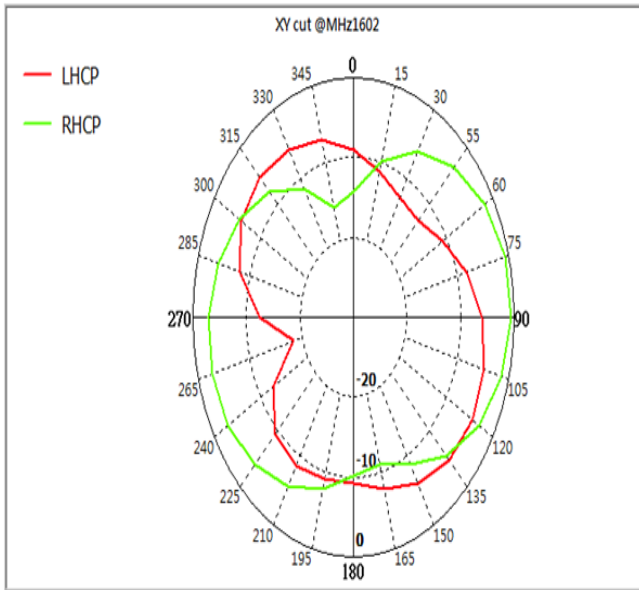


# 1575Mhz:





# 1602Mhz:



# 1620MHz:

