

# 3.9Ghz Antenna

MODEL: TH-3900C



## 1.. GENERAL DESCRIPTION

Model No
TH3900C-N(M)

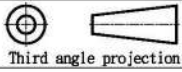
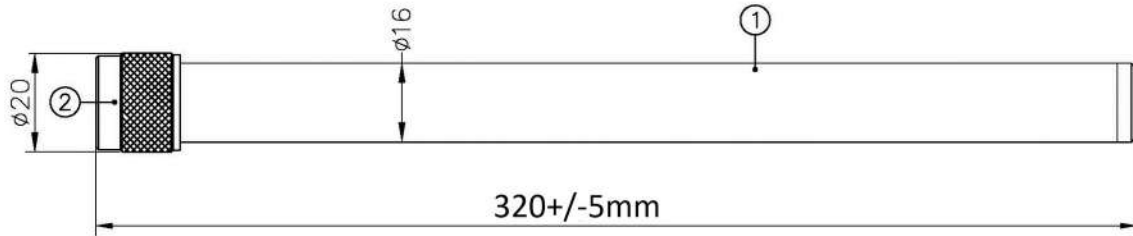
### 1.1 Electrical Properties

Parameter	Description
Frequency Band	3800~4000MHz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.0:1
Gain	7dbi
Power	20W

### 1.2 Mechanical Properties

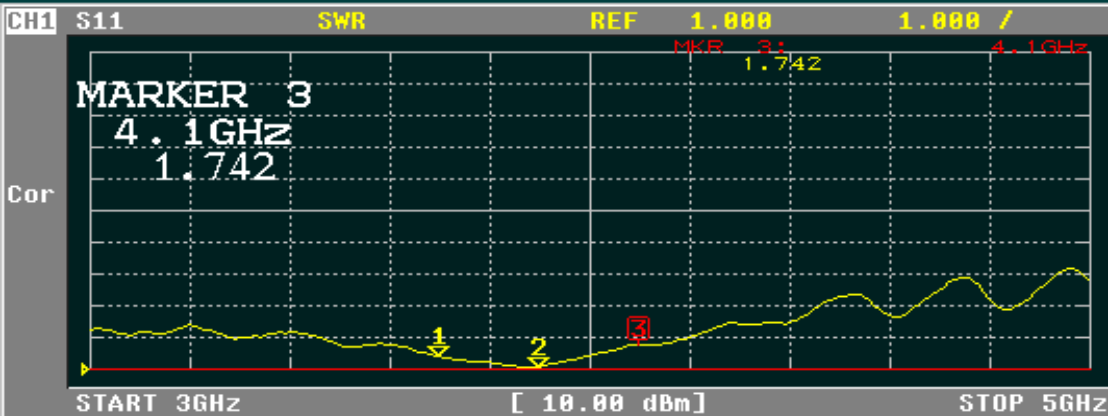
Parameter	Description
Antenna Type	External Antenna
Material	ASA
Touch Type	Screw Type
Connector Type	N connector (Male)
Antenna Dimensions	320mm $\pm$ 5
Antenna Color	Black
Operating Temperature Range	-30°C~+70°C
Storage Temperature Range	-30°C~+70°C

NO.	NAME	FINISH	Q, TY
01	Core tube	Black	01
02	N(Male)	Nickel plating	01



CUSTOMER' S	MODEL	PARTS NUMBER	FREQUENCY	UNIT	SCALE	DATE	VERSION
		TH-3900C	3.8~4.0Ghz	M/M		20230706	1
TOLERANCE	X. XX±0. 15	NAME	PARTS NUMBER	APPROVED	CHECKED	DRAWING	DESIGNED
SURFACE ROUGHNESS	$\sqrt{S}$	APPEARANCE					





CH1 MARKER LIST

1:	3.700 000GHz	1.411
2:	3.900 000GHz	1.088
3:	4.100 000GHz	1.742
4:		
5:		
6:		
7:		
8:		
9:		
10:		

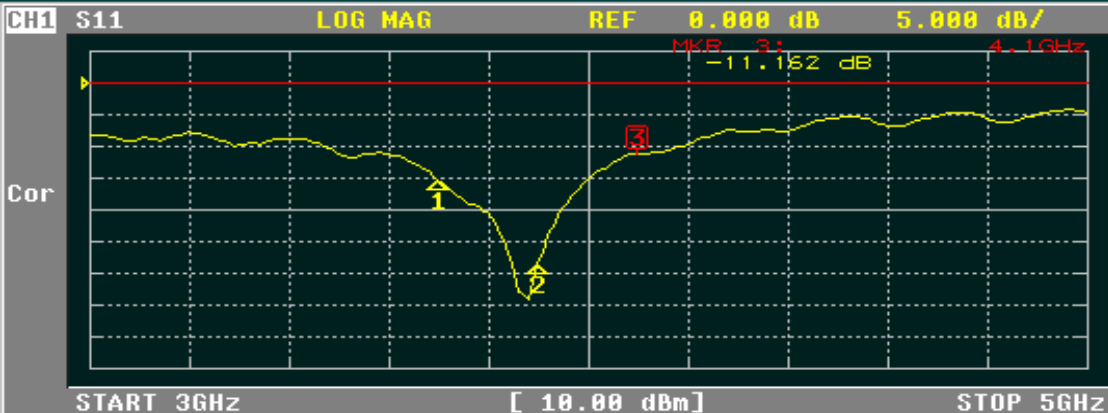
ACTIVATE MARKER

- MARKER 1
- MARKER 2
- MARKER 3
- MARKER 4
- MARKER 5

ACTIVATE MKR OFF

Return

More 1/2



CH1 MARKER LIST

1:	3.700 000GHz	-15.182 dB
2:	3.900 000GHz	-28.651 dB
3:	4.100 000GHz	-11.162 dB
4:		
5:		
6:		
7:		
8:		
9:		
10:		

FORMAT

- LOG MAG
- PHASE
- DELAY
- SMITH (R+jX)
- SMITH (G+jB)
- POLAR
- LIN MAG

More 1/2



CH1 MARKER LIST

1:	3.700 000GHz	70.692 Ω	-3.578 Ω	12.021pF
2:	3.900 000GHz	46.781 Ω	-39.313mΩ	1.038nF
3:	4.100 000GHz	43.331 Ω	26.142 Ω	1.014nH
4:				
5:				
6:				
7:				
8:				
9:				
10:				

FORMAT

LOG MAG 1

PHASE 2

DELAY 3

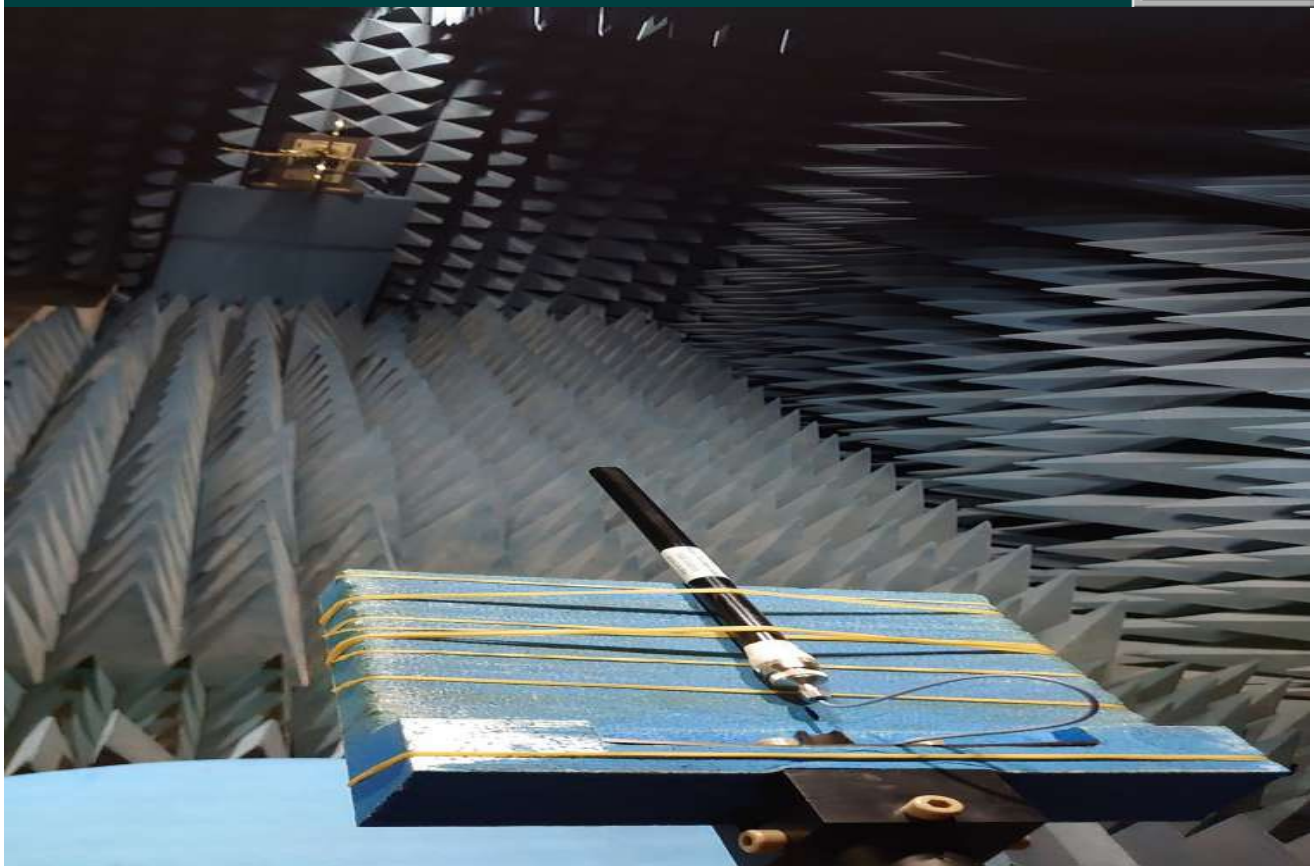
SMITH (R+jX) 4

SMITH (G+jB) 5

POLAR 6

LIN MAG 7

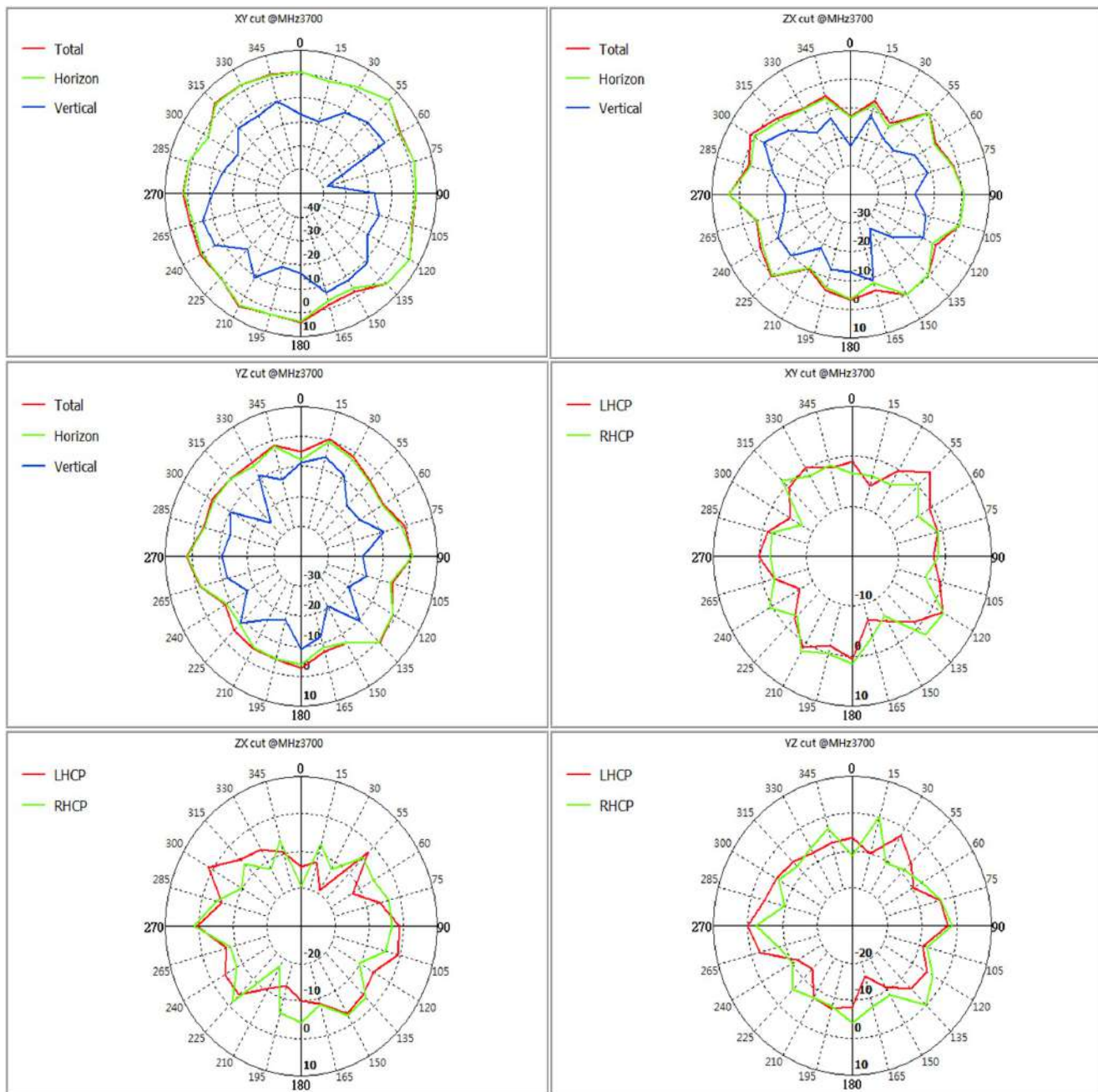
More 1/2 8

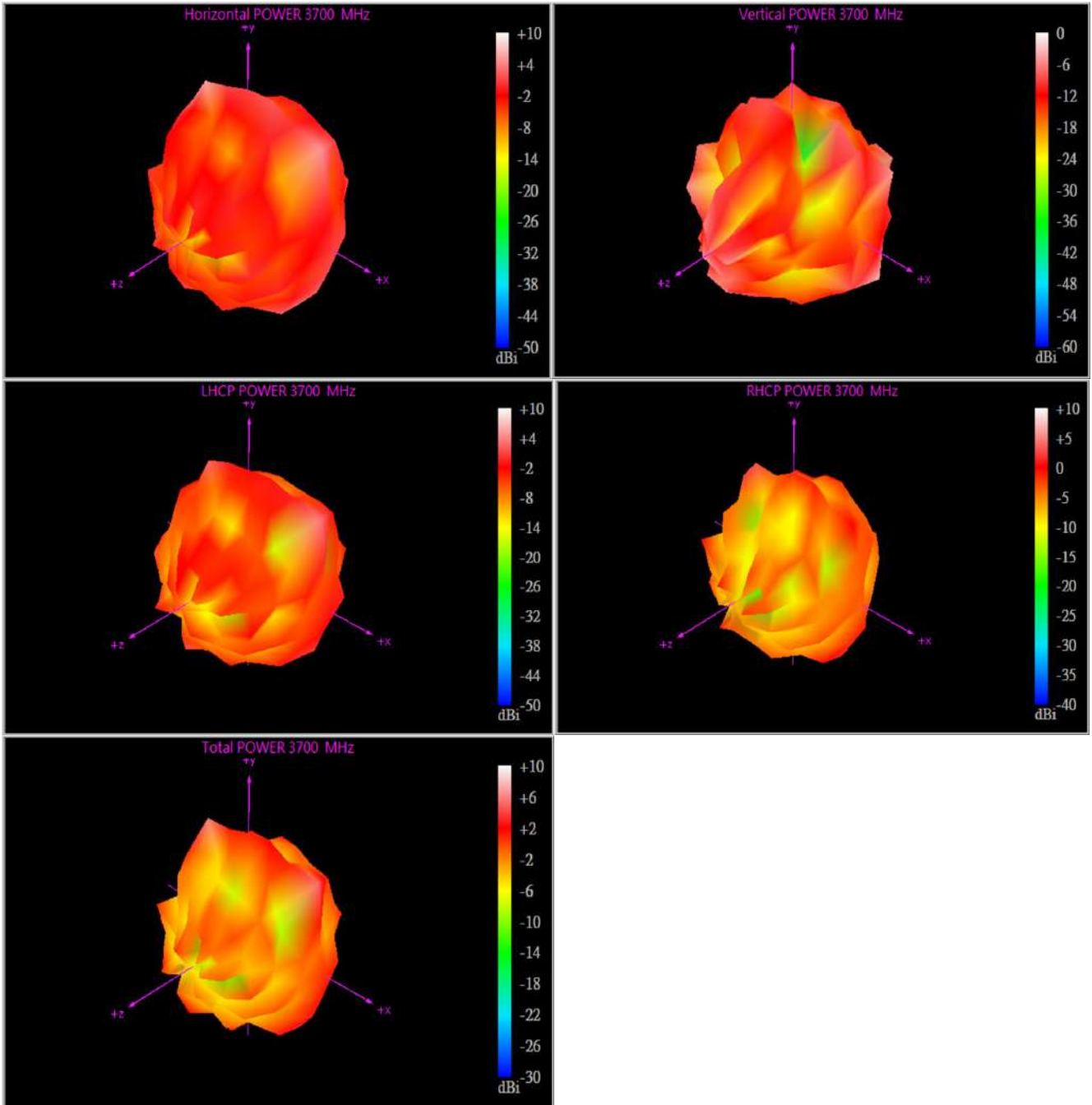


### 3D Total

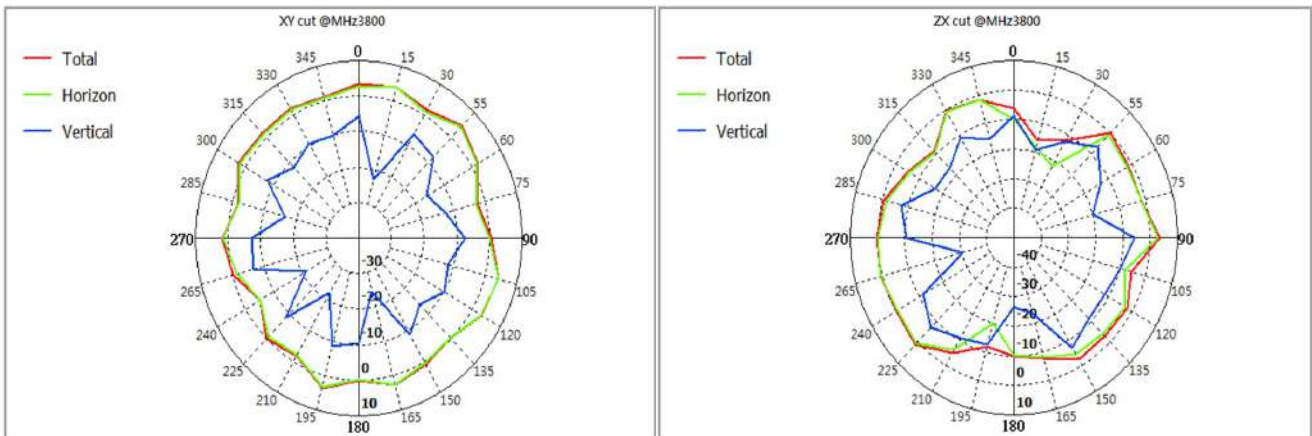
Frequency (MHz)	Upper Hem. PRP (dBm)	Lower HEM. PRP (dBm)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Tot. Rad.Pwr. (dBm)
3700 MHz	-4.57	-4.23	-1.39	72.64	5.70	-1.39
3750 MHz	-4.02	-3.99	-1.00	79.50	5.58	-1.00
3800 MHz	-4.57	-4.31	-1.43	71.99	6.71	-1.43
3850 MHz	-3.55	-4.67	-1.06	78.27	7.13	-1.06
3900 MHz	-4.17	-5.20	-1.65	68.46	6.63	-1.65
4000 MHz	-6.18	-6.73	-3.44	45.33	4.54	-3.44
4100 MHz	-6.20	-6.81	-3.48	44.83	4.07	-3.48

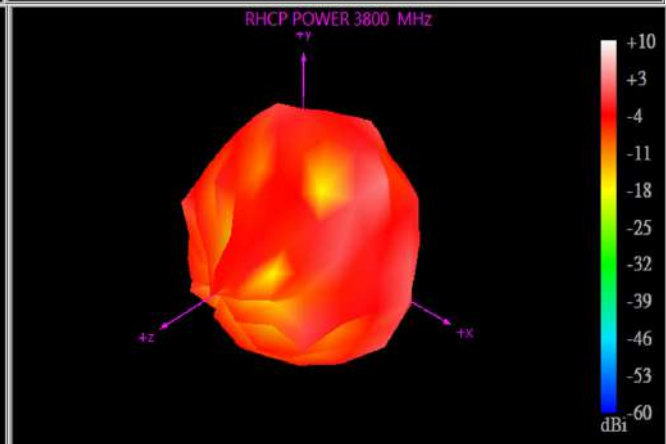
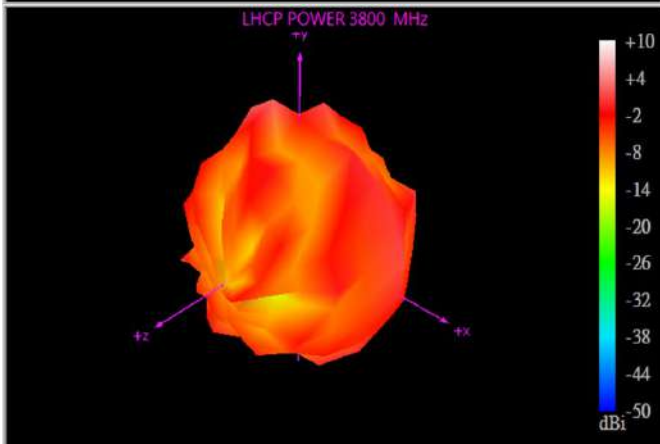
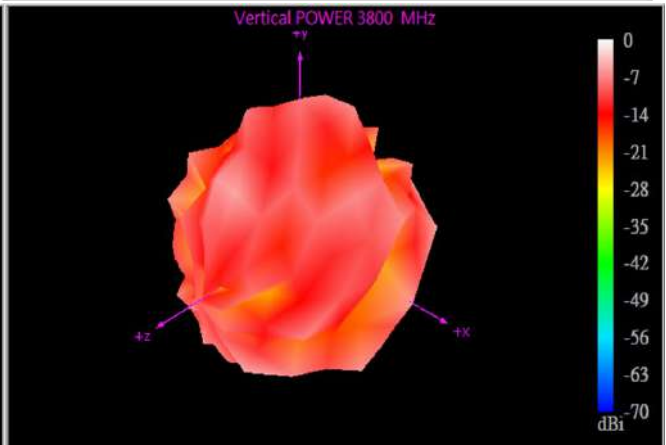
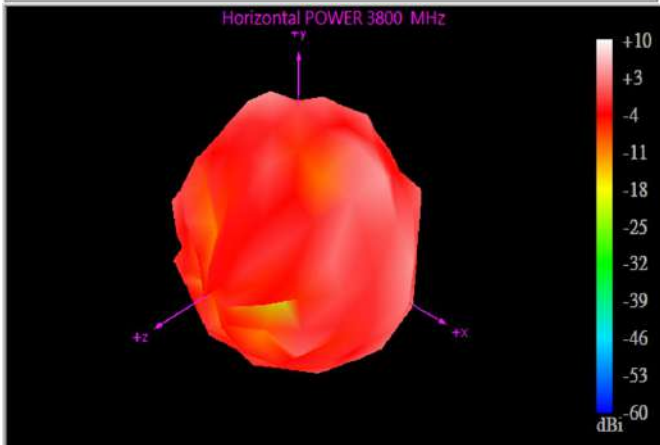
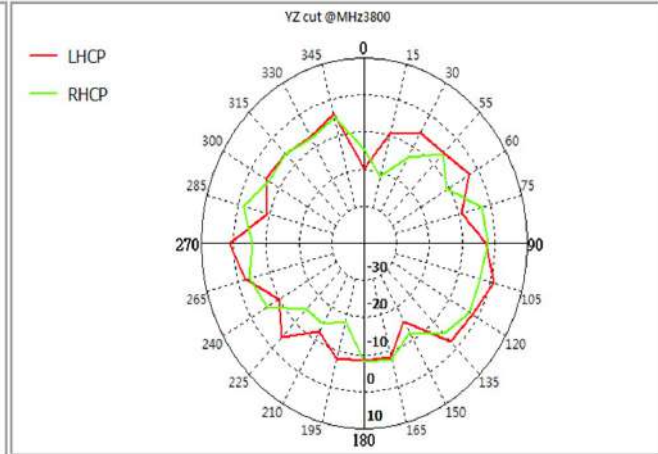
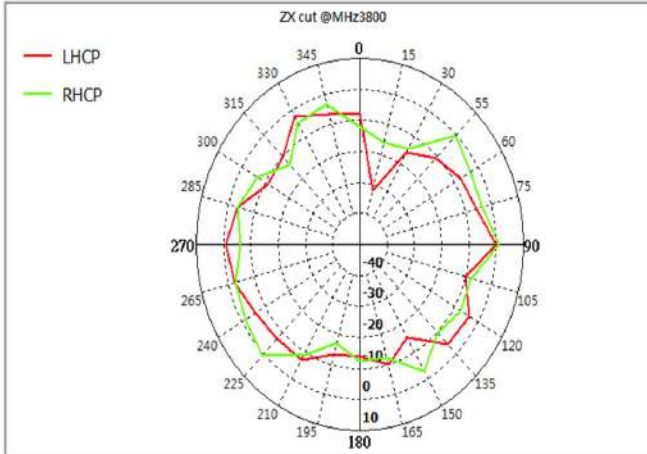
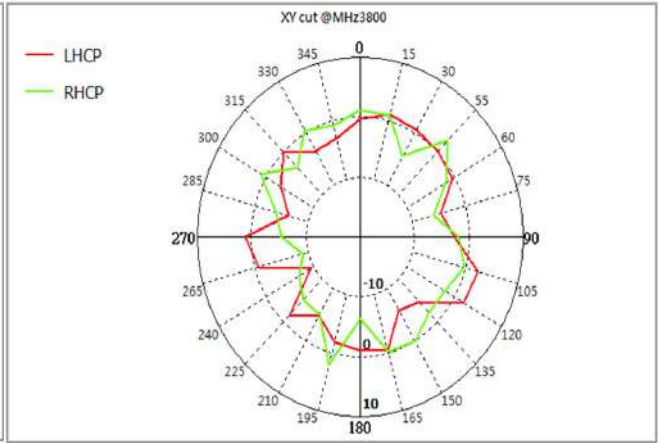
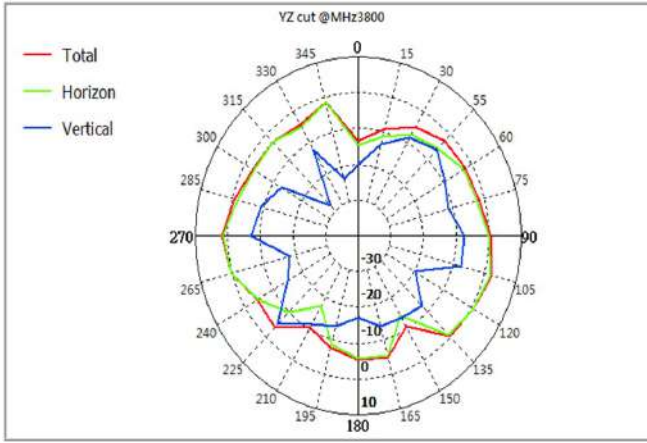
### 3700Mhz:

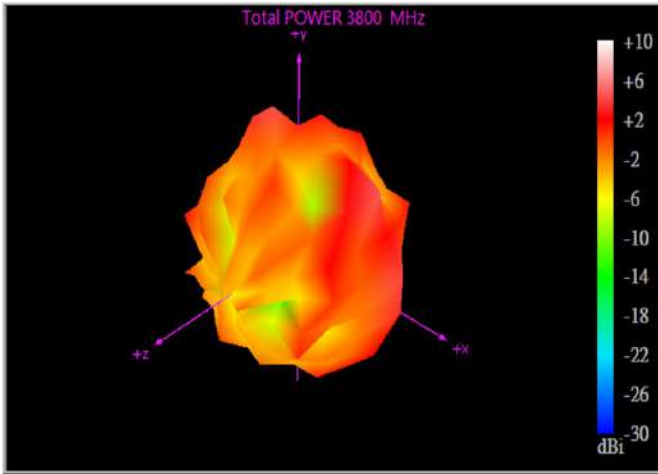




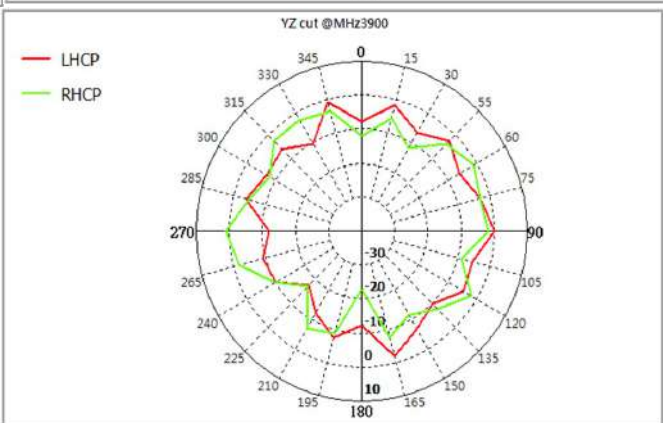
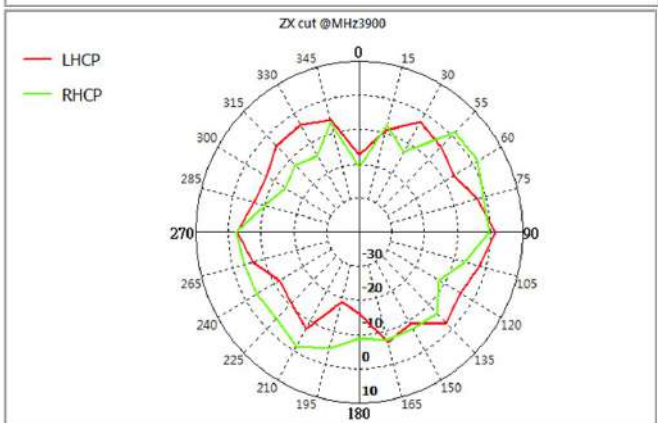
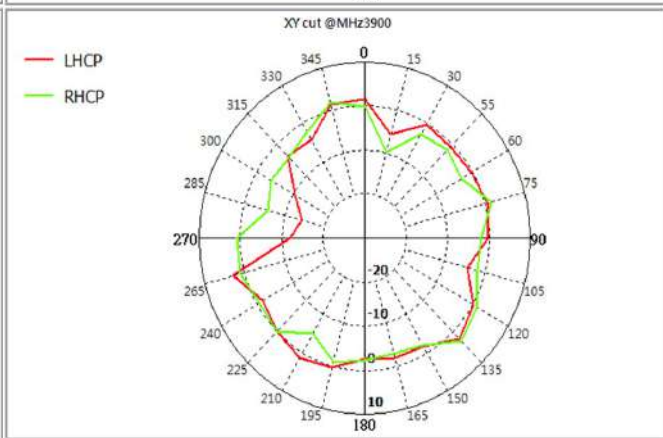
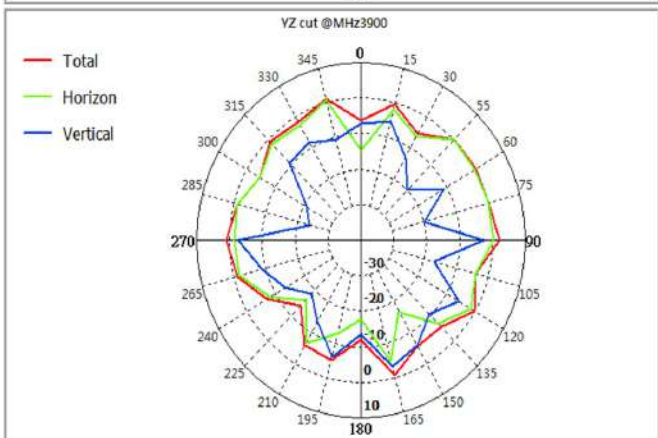
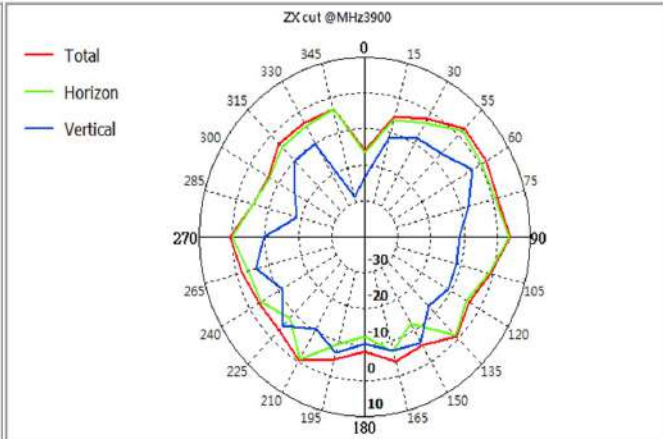
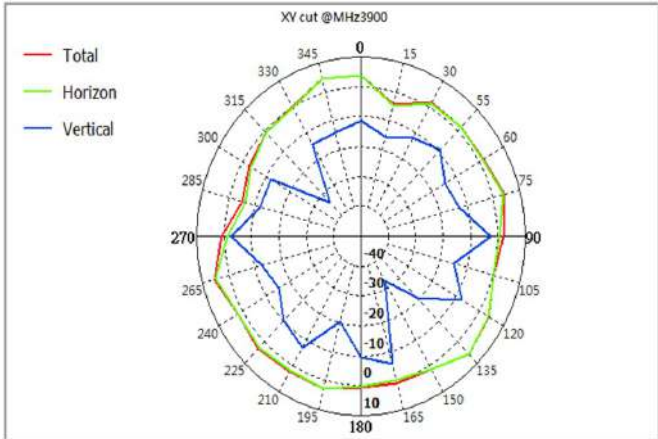
**3800Mhz:**



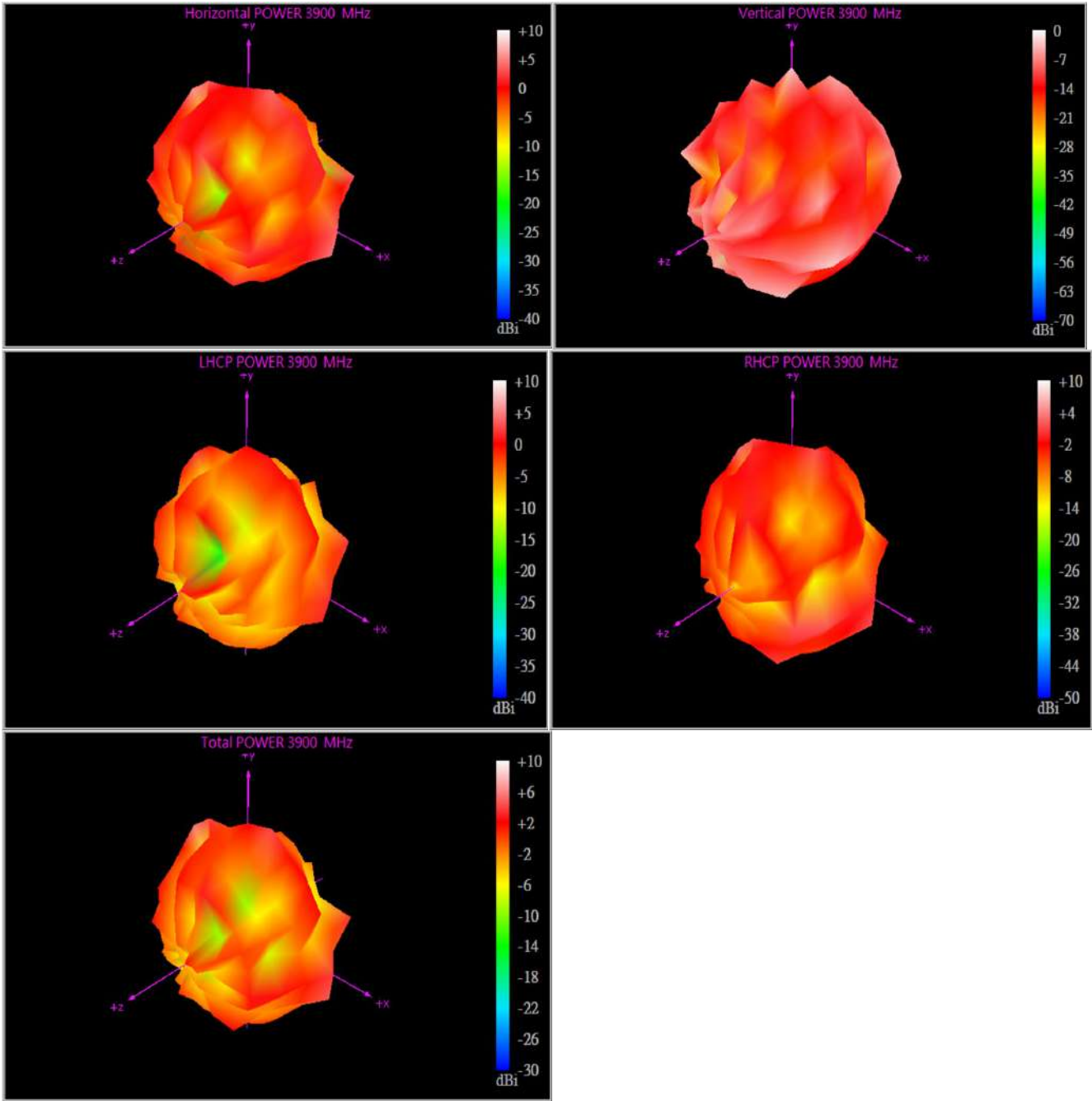




**3900MHz:**







**4000Mhz:**

