

2~4.8Ghz Antenna

MODEL: TH-3000



1.. GENERAL DESCRIPTION

Model No
TH3000-N(M)

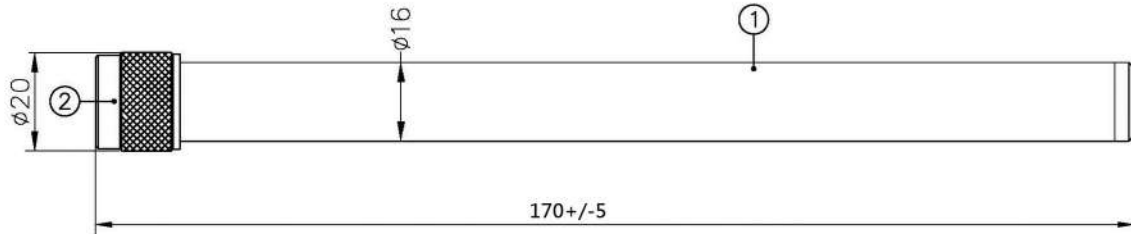
1.1 Electrical Properties

Parameter	Description
Frequency Band	2000~4800MHz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.0:1

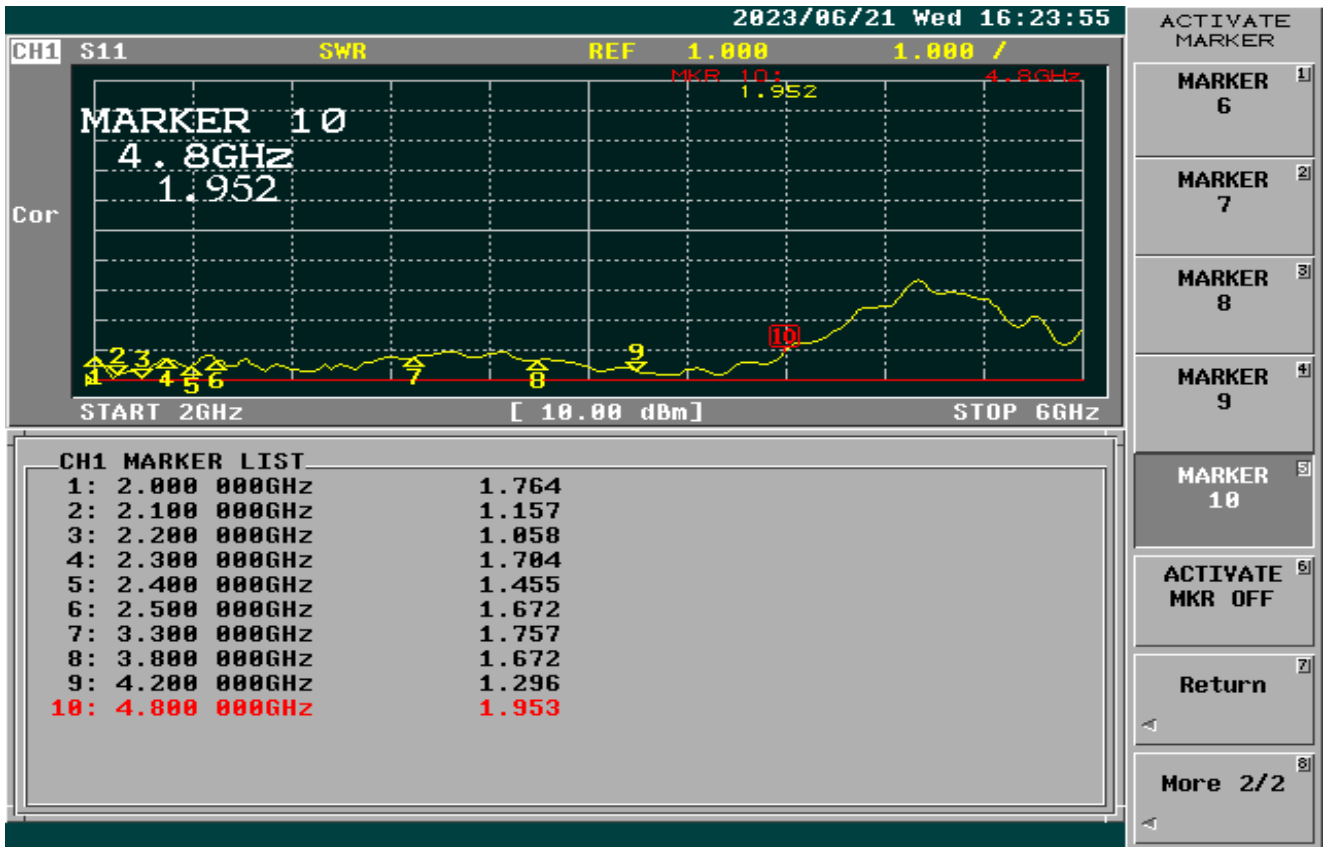
1.2 Mechanical Properties

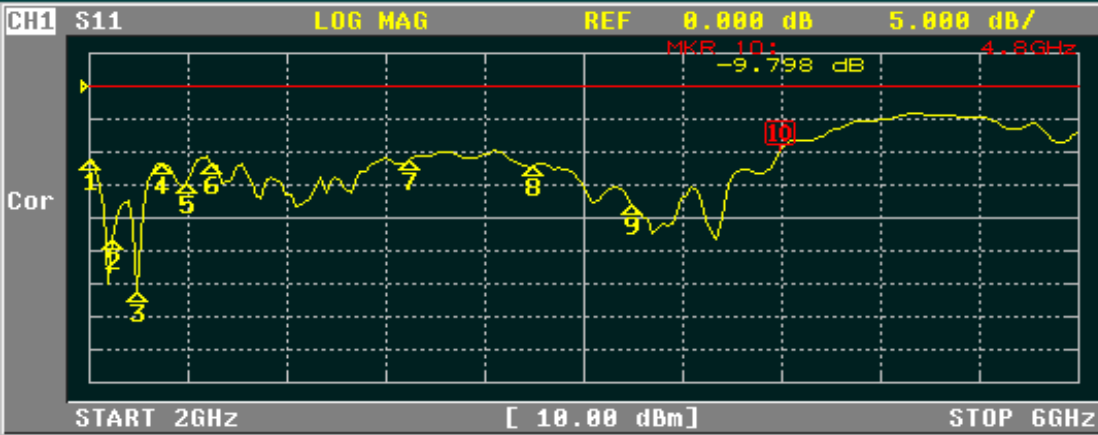
Parameter	Description
Antenna Type	External Antenna
Material	ASA
Touch Type	Screw Type
Connector Type	N connector (Male)
Antenna Dimensions	170mm \pm 5
Antenna Color	Black
Operating Temperature Range	-30°C~+70°C
Storage Temperature Range	-30°C~+70°C

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-3000	2.0~4.8Ghz	M/M		20230810	1
TOLERANCE	X. XX±0.15	NAME	PARTS NUMBER	APPROVED	CHECKED	DRAWING	DESIGNED
SURFACE ROUGHNESS	$\frac{S}{\sqrt{V}}$	APPEARANCE					

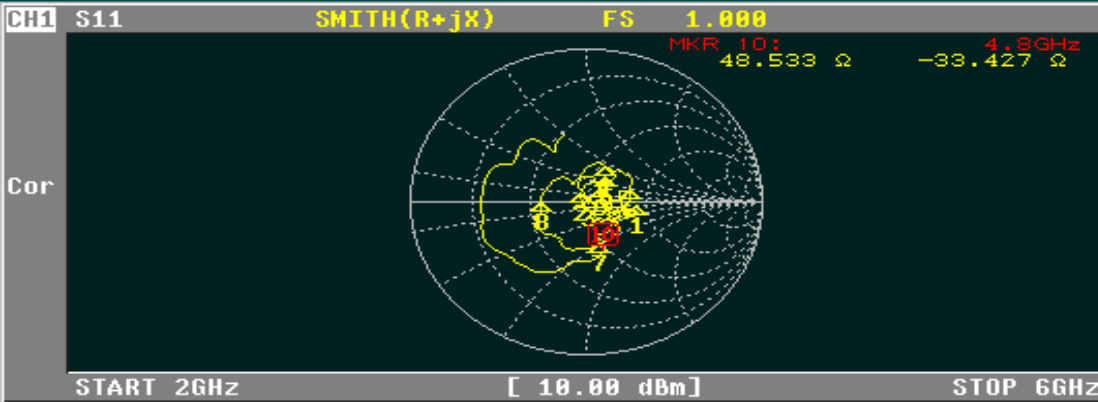




CH1 MARKER LIST

1:	2.000 000GHz	-11.213 dB
2:	2.100 000GHz	-23.159 dB
3:	2.200 000GHz	-31.214 dB
4:	2.300 000GHz	-11.661 dB
5:	2.400 000GHz	-14.610 dB
6:	2.500 000GHz	-11.896 dB
7:	3.300 000GHz	-11.201 dB
8:	3.800 000GHz	-12.001 dB
9:	4.200 000GHz	-17.827 dB
10:	4.800 000GHz	-9.798 dB

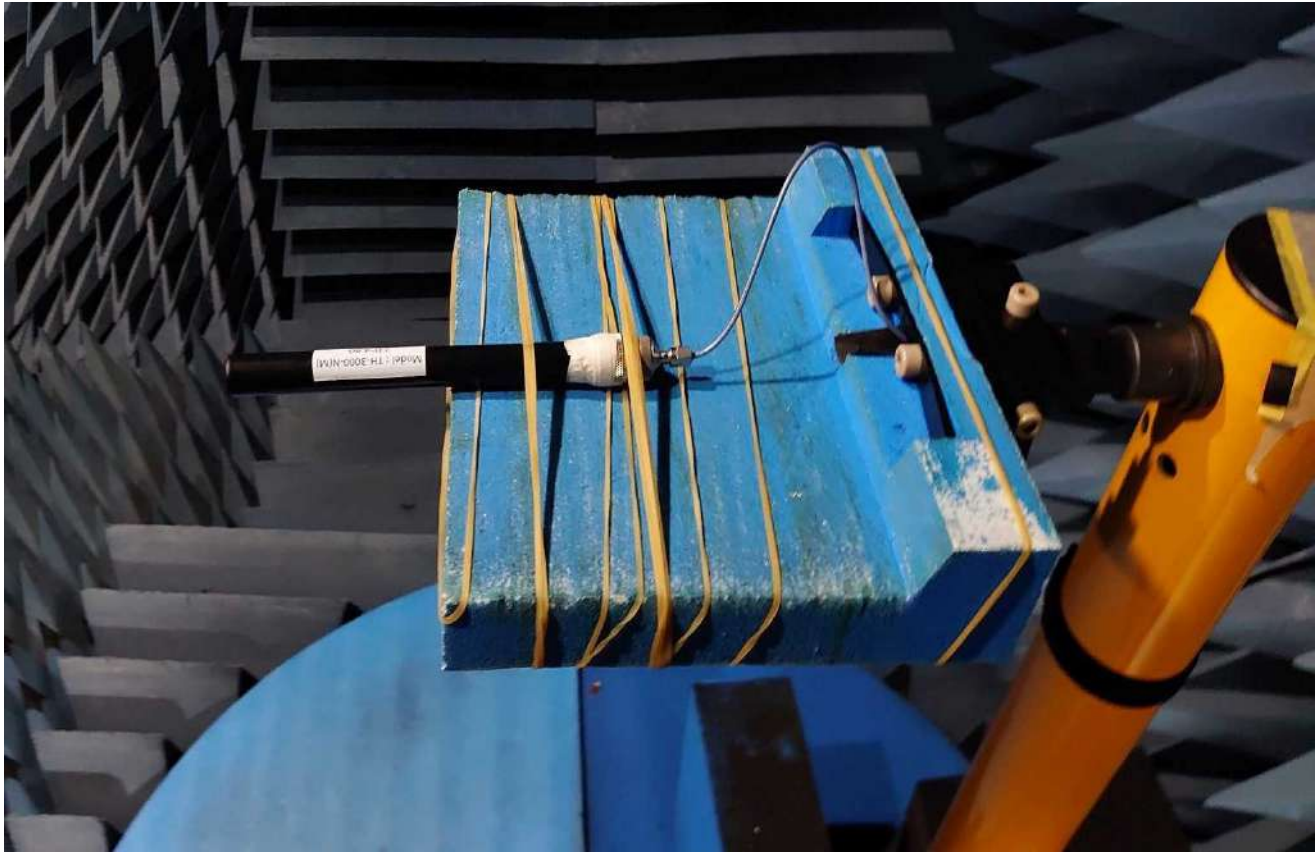
- FORMAT
- LOG MAG 1
 - PHASE 2
 - DELAY 3
 - SMITH (R+jX) 4
 - SMITH (G+jB) 5
 - POLAR 6
 - LIN MAG 7
 - More 1/2 8



CH1 MARKER LIST

1:	2.000 000GHz	88.414 Ω	-5.053 Ω	15.748pF
2:	2.100 000GHz	46.281 Ω	5.651 Ω	428.307pH
3:	2.200 000GHz	50.639 Ω	2.748 Ω	198.855pH
4:	2.300 000GHz	54.341 Ω	27.562 Ω	1.907nH
5:	2.400 000GHz	58.176 Ω	19.107 Ω	1.267nH
6:	2.500 000GHz	80.162 Ω	13.326 Ω	848.405pH
7:	3.300 000GHz	48.941 Ω	-28.533 Ω	1.690pF
8:	3.800 000GHz	29.689 Ω	178.837mΩ	7.490pH
9:	4.200 000GHz	58.032 Ω	10.918 Ω	413.735pH
10:	4.800 000GHz	48.533 Ω	-33.427 Ω	0.991pF

- FORMAT
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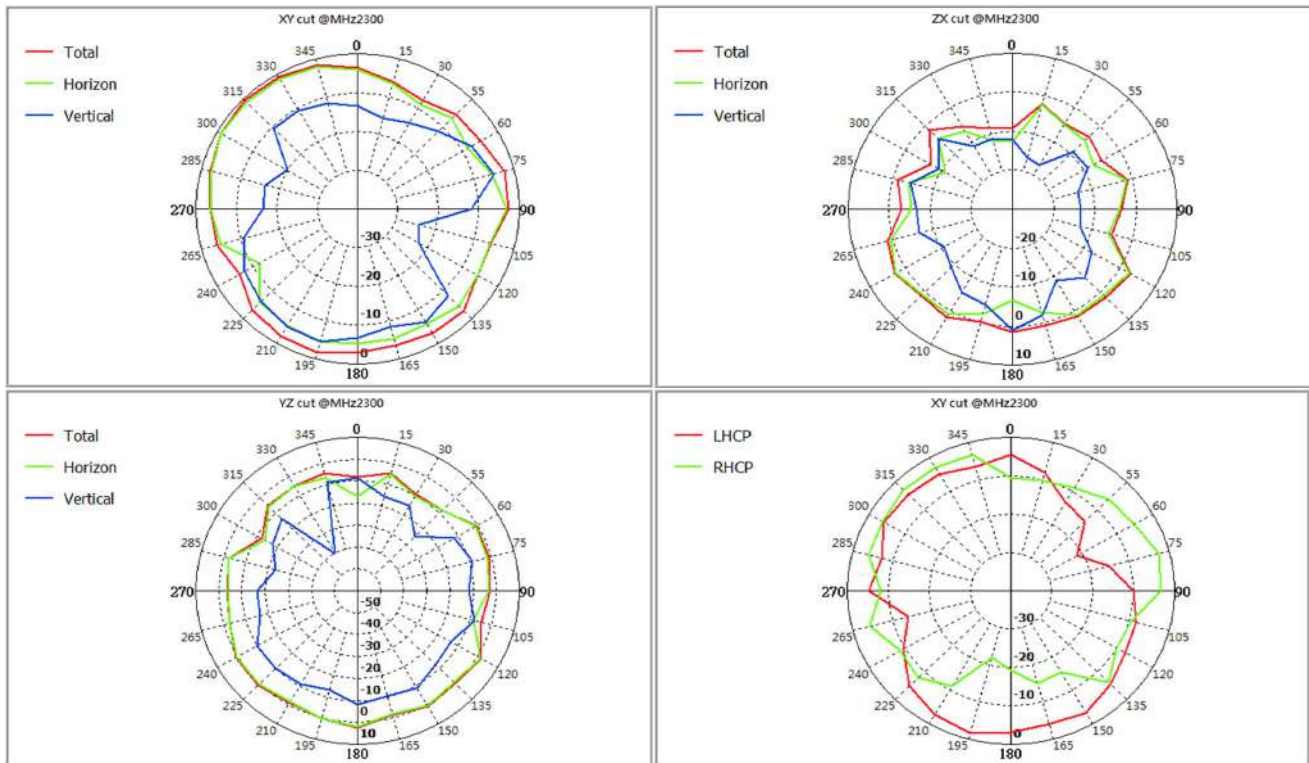


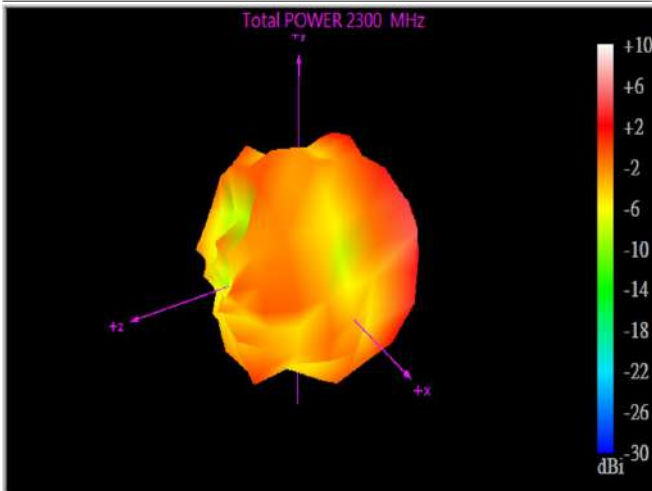
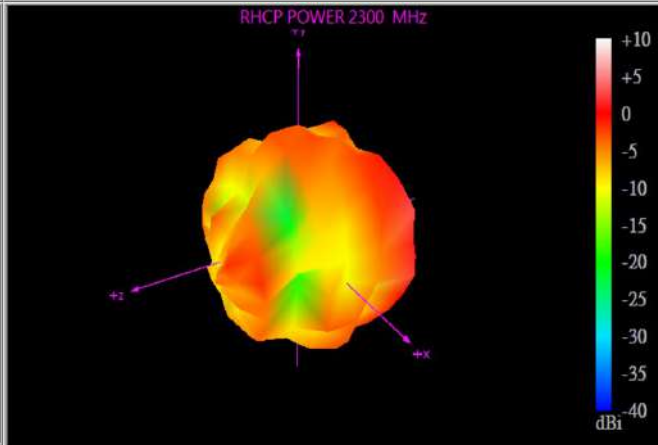
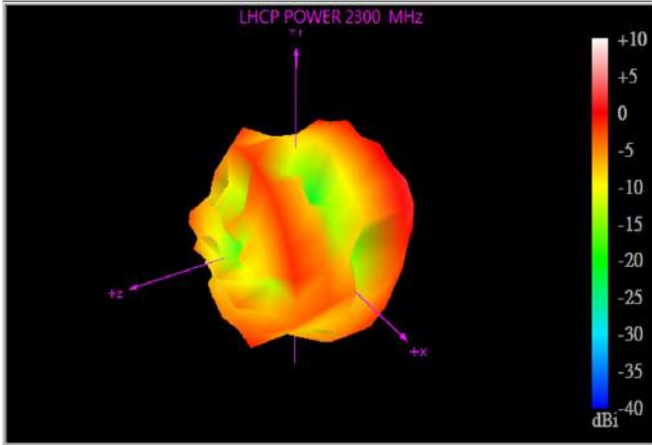
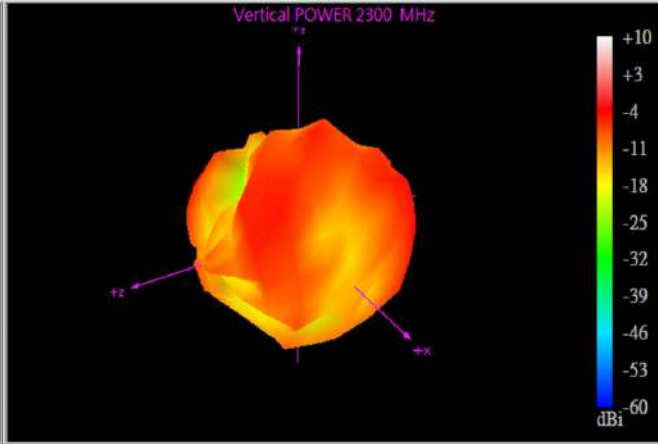
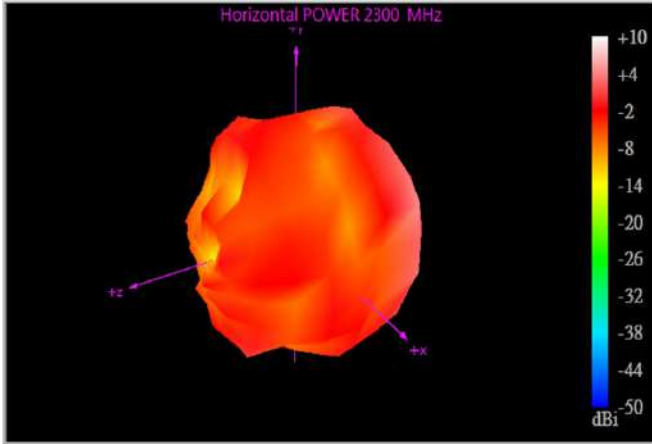
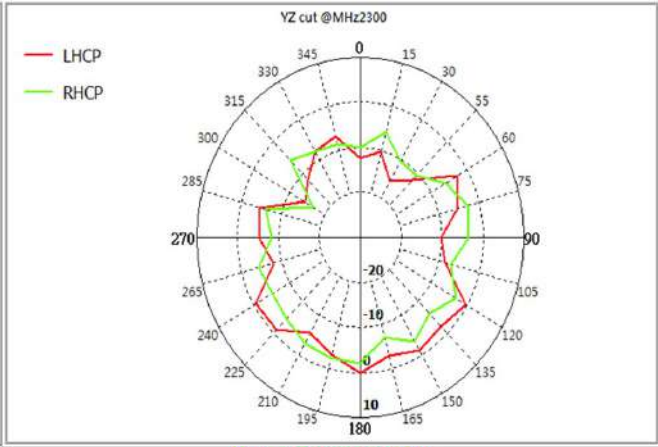
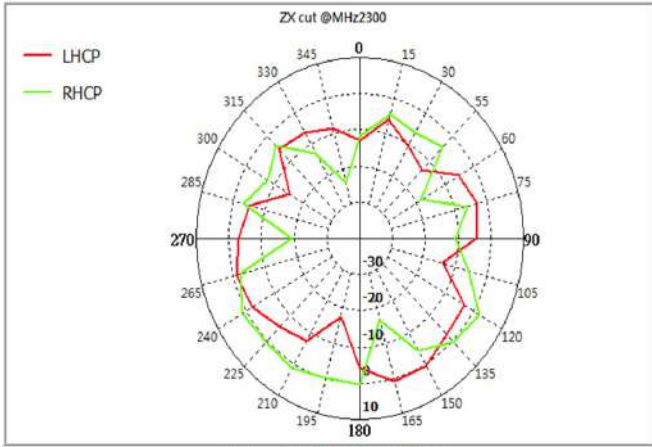
3D Total

Frequency (MHz)	Upper Hem. PRP (dBm)	Lower HEM. PRP (dBm)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Tot. Rad.Pwr. (dBm)
1995 MHz	-5.38	-4.50	-1.90	64.50	2.57	-1.90
2110 MHz	-6.35	-4.20	-2.14	61.15	2.90	-2.14
2140 MHz	-6.66	-4.04	-2.14	61.06	2.72	-2.14
2170 MHz	-7.26	-3.92	-2.27	59.35	2.60	-2.27
2300 MHz	-6.63	-2.87	-1.34	73.42	4.87	-1.34
2325 MHz	-6.98	-3.24	-1.70	67.54	4.51	-1.70
2350 MHz	-6.38	-3.42	-1.64	68.50	3.90	-1.64
2375 MHz	-6.34	-3.29	-1.54	70.14	4.20	-1.54
2400 MHz	-7.58	-4.89	-3.02	49.88	3.57	-3.02
2450 MHz	-7.61	-3.80	-2.29	59.01	3.61	-2.29
2500 MHz	-8.58	-4.52	-3.08	49.21	3.99	-3.08
2515 MHz	-8.07	-4.28	-2.76	52.92	3.02	-2.76
2535 MHz	-8.92	-4.18	-2.93	50.99	3.97	-2.93
2555 MHz	-8.80	-4.38	-3.04	49.69	2.48	-3.04
2570 MHz	-8.58	-3.99	-2.69	53.80	2.99	-2.69
2595 MHz	-8.52	-3.82	-2.55	55.59	2.99	-2.55
2620 MHz	-8.30	-3.41	-2.19	60.41	3.91	-2.19
2630 MHz	-8.61	-3.10	-2.02	62.74	4.04	-2.02
2655 MHz	-9.03	-4.00	-2.81	52.34	3.13	-2.81
2680 MHz	-8.62	-3.65	-2.45	56.85	3.34	-2.45

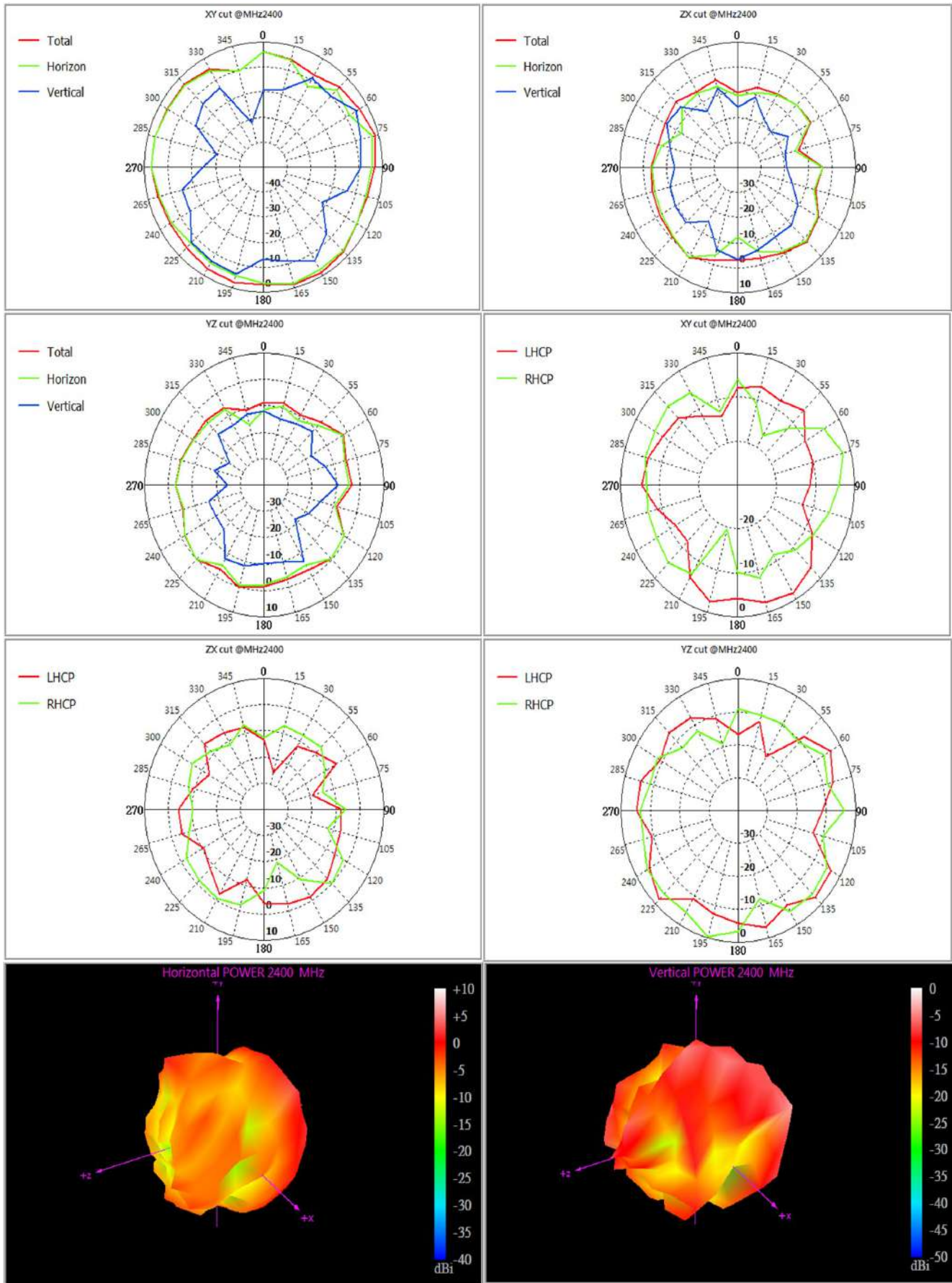
2690 MHz	-9.04	-3.87	-2.72	53.51	3.66	-2.72
3300 MHz	-7.03	-3.37	-1.82	65.80	4.97	-1.82
3350 MHz	-6.36	-3.85	-1.91	64.34	4.29	-1.91
3400 MHz	-7.08	-4.37	-2.51	56.15	3.77	-2.51
3450 MHz	-6.60	-4.22	-2.24	59.67	3.86	-2.24
3500 MHz	-6.15	-4.11	-2.00	63.08	2.95	-2.00
3550 MHz	-4.94	-3.69	-1.26	74.78	5.26	-1.26
3600 MHz	-5.25	-3.16	-1.07	78.13	5.42	-1.07
3650 MHz	-5.19	-3.89	-1.48	71.08	4.84	-1.48
3700 MHz	-4.90	-3.83	-1.32	73.74	4.55	-1.32
3750 MHz	-5.20	-4.38	-1.76	66.67	4.31	-1.76
3800 MHz	-5.16	-4.67	-1.90	64.63	3.89	-1.90
3850 MHz	-4.38	-4.39	-1.38	72.86	4.78	-1.38
4400 MHz	-5.22	-6.50	-2.81	52.40	3.05	-2.81
4450 MHz	-5.15	-6.82	-2.90	51.33	3.50	-2.90
4500 MHz	-4.17	-6.64	-2.23	59.90	5.13	-2.23
4550 MHz	-3.67	-5.45	-1.46	71.43	5.47	-1.46
4600 MHz	-2.74	-3.10	0.09	100.00	6.57	0.09
4650 MHz	-3.76	-4.83	-1.25	75.01	5.80	-1.25
4700 MHz	-3.24	-3.22	-0.22	95.01	6.96	-0.22
4750 MHz	-2.69	-4.75	-0.59	87.34	7.62	-0.59
4850 MHz	-3.52	-4.15	-0.81	82.97	6.47	-0.81

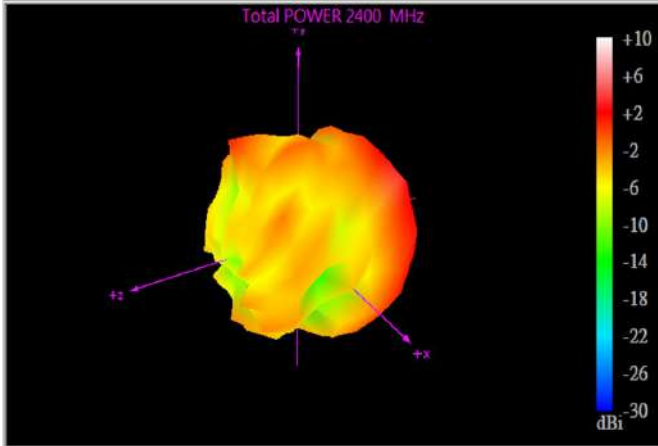
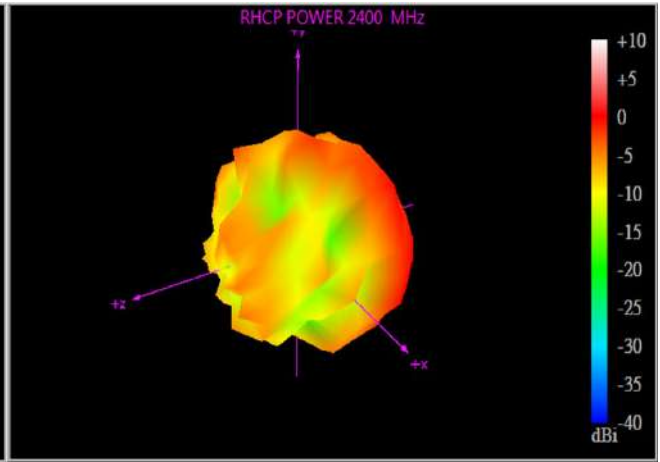
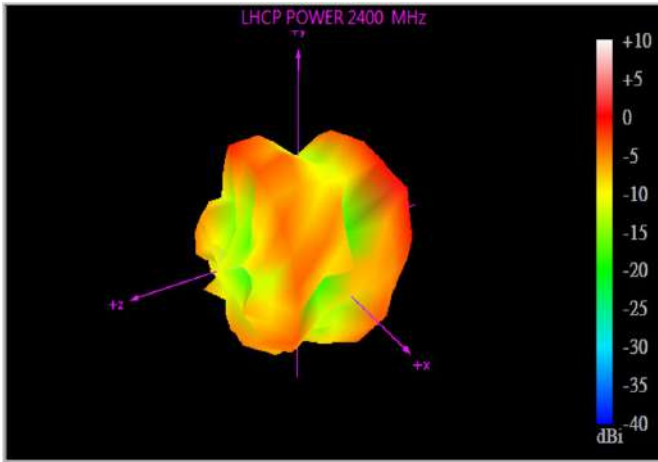
2300 MHz:



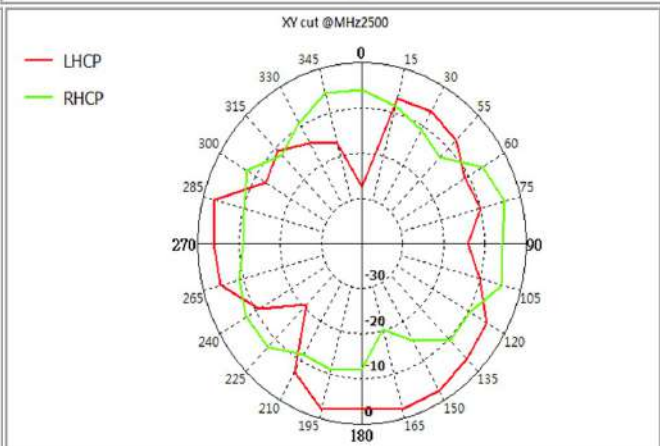
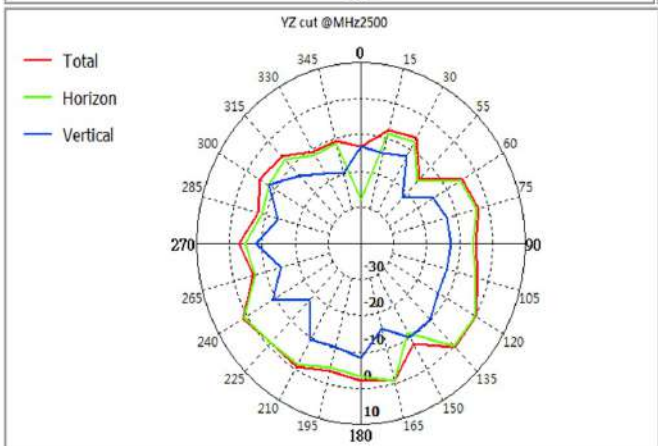
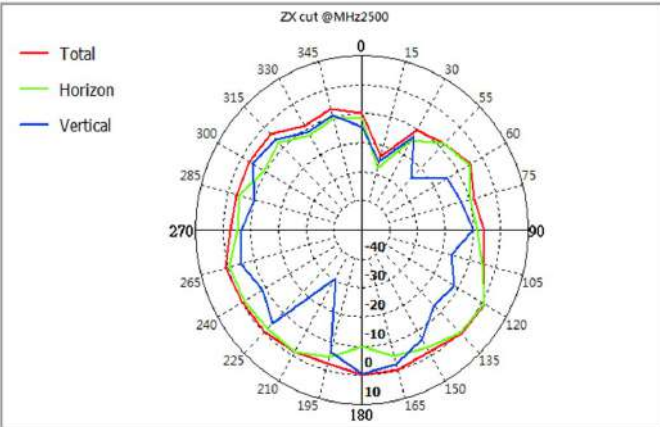
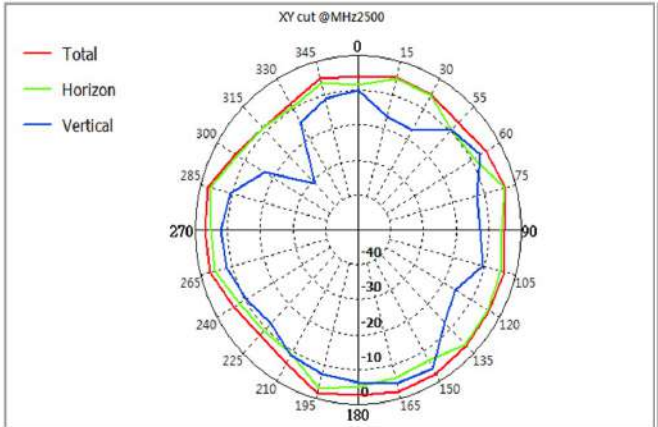


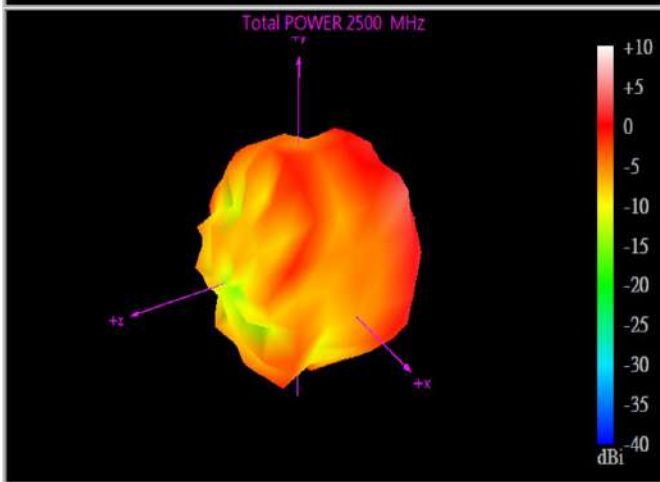
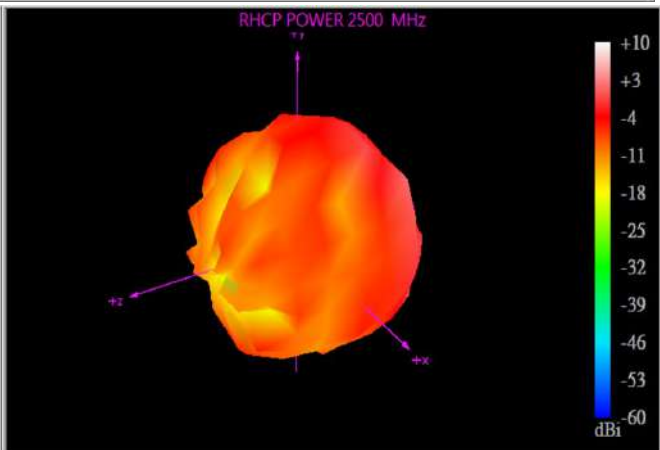
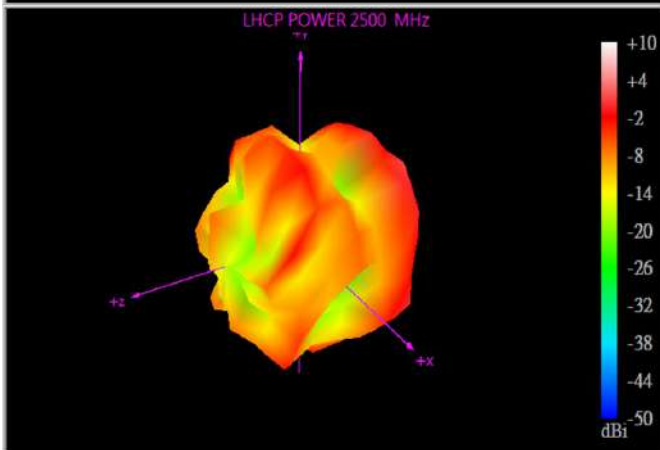
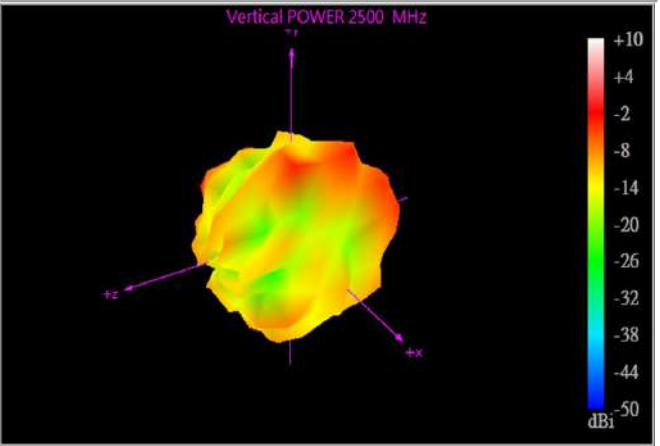
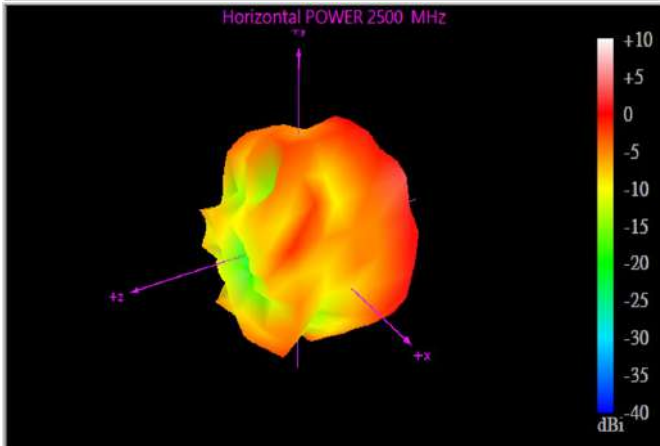
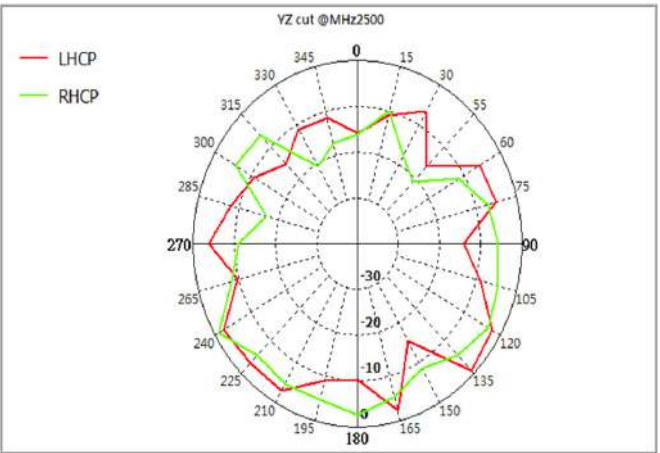
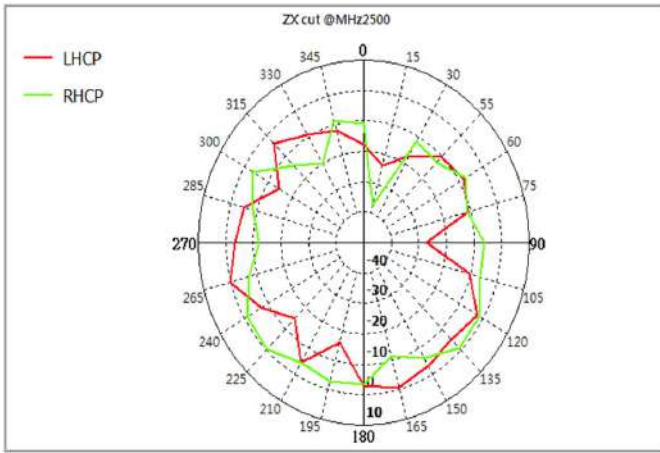
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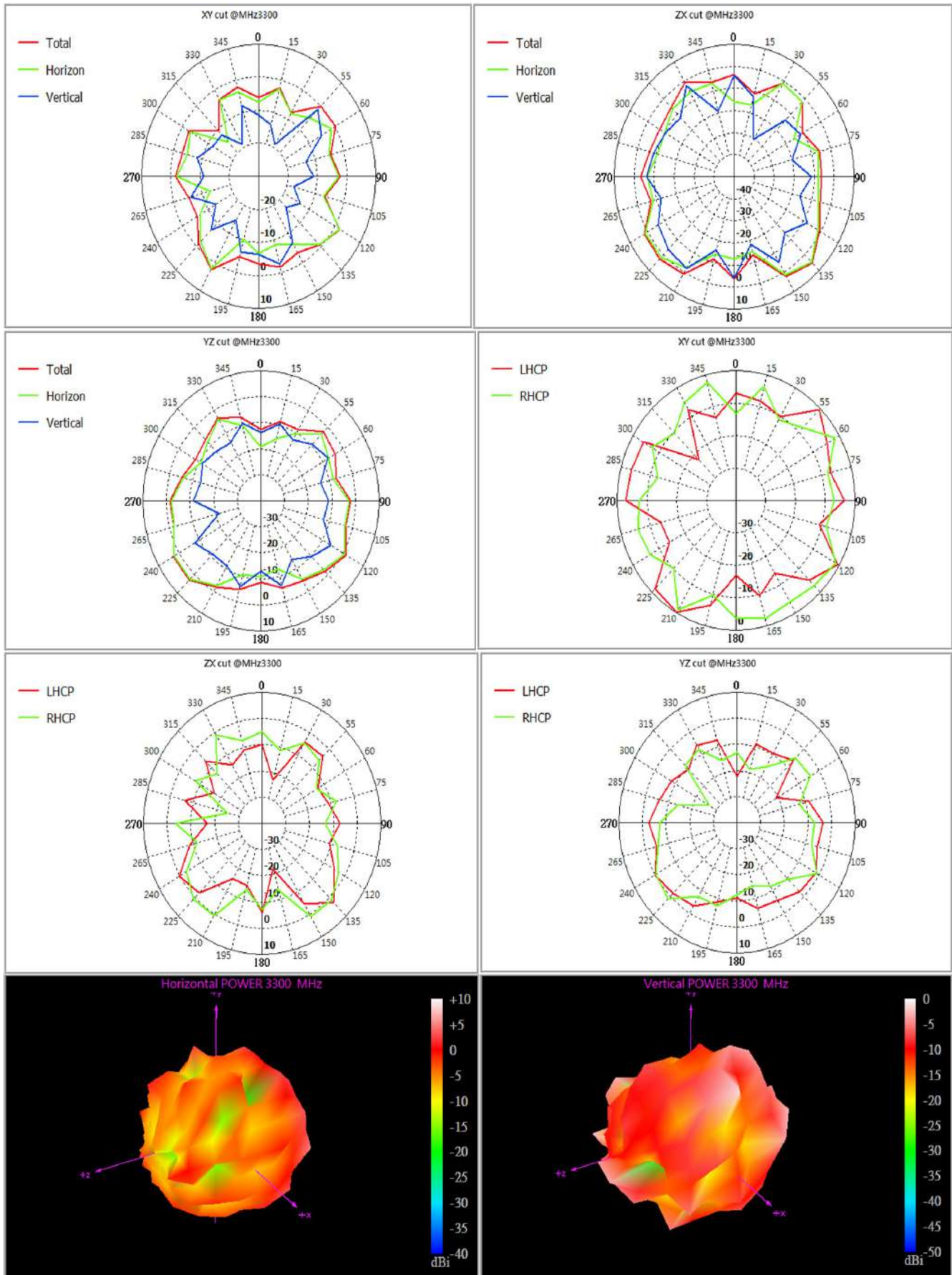


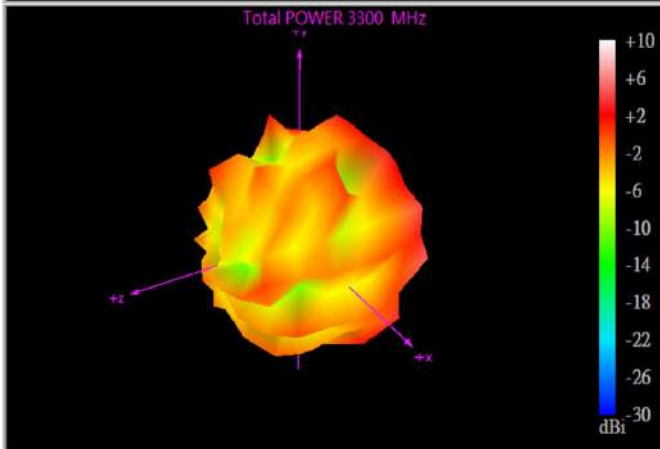
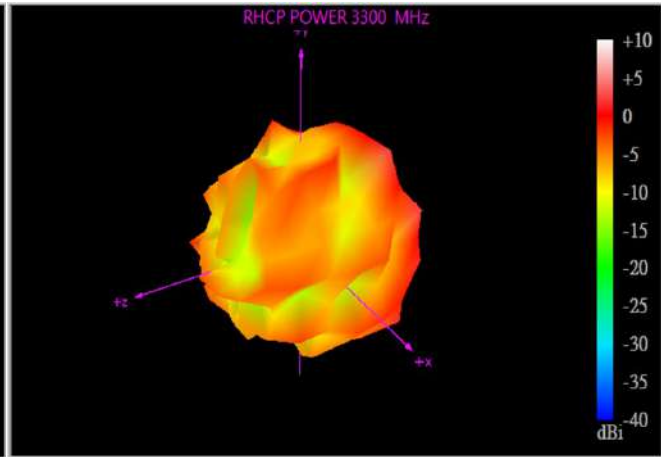
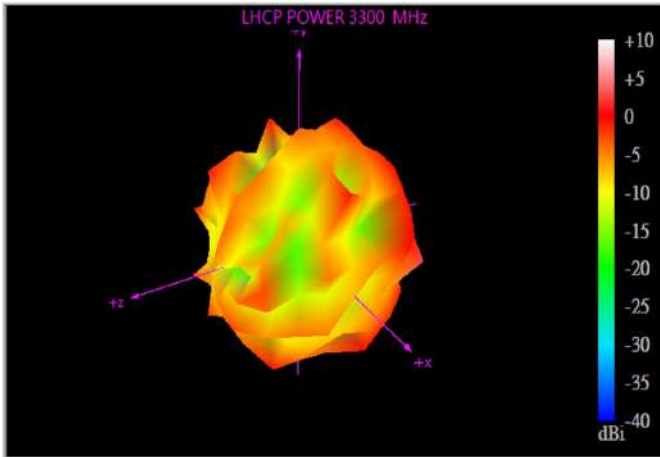
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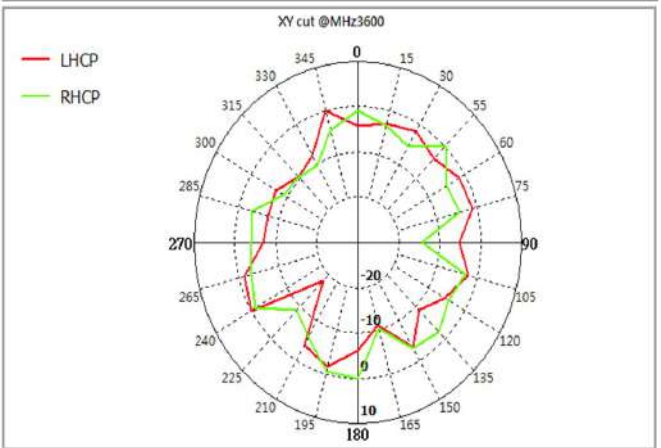
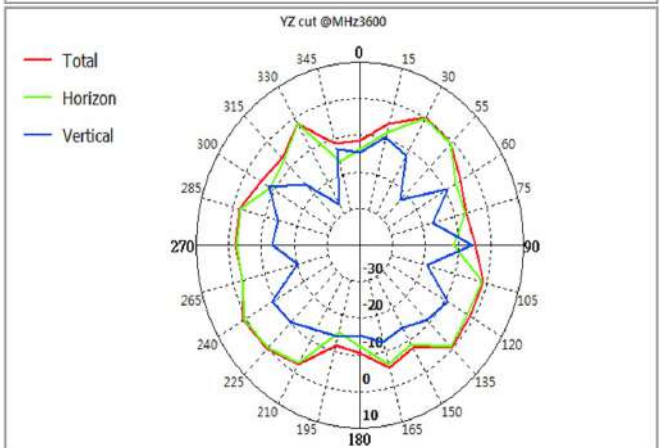
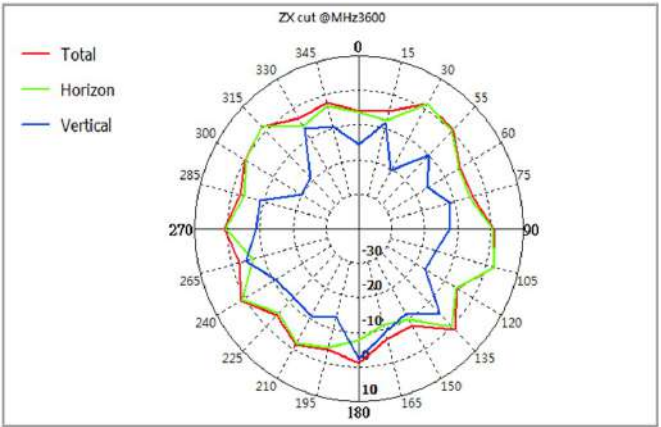
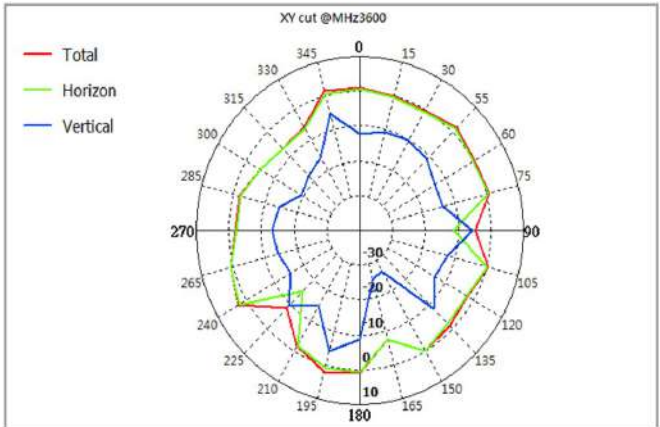


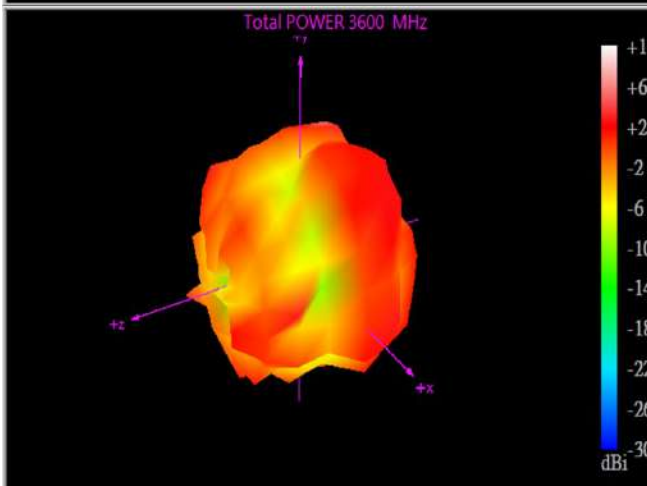
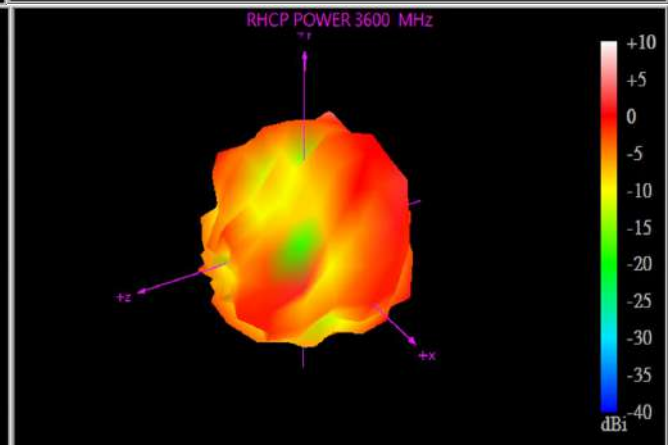
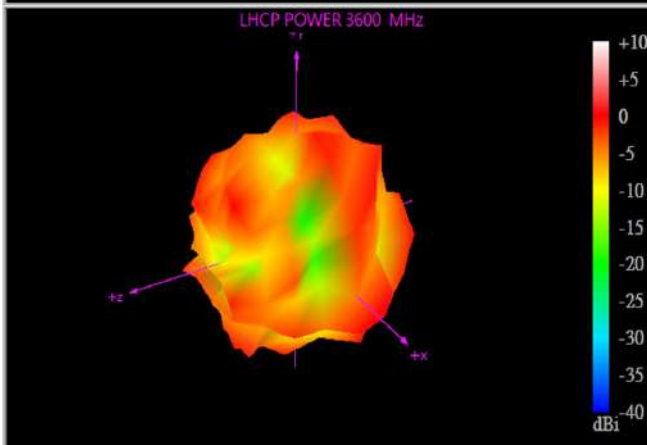
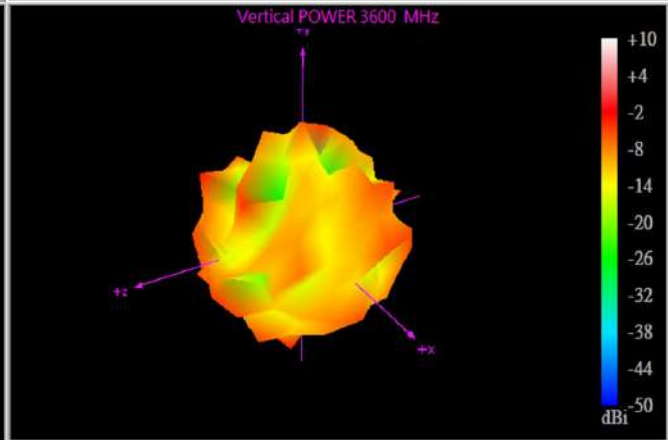
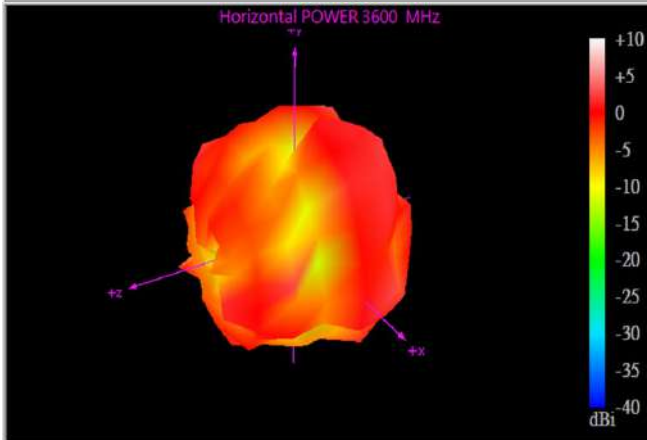
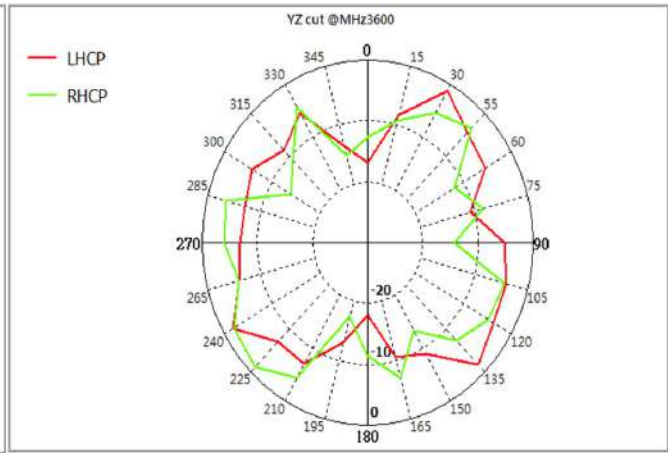
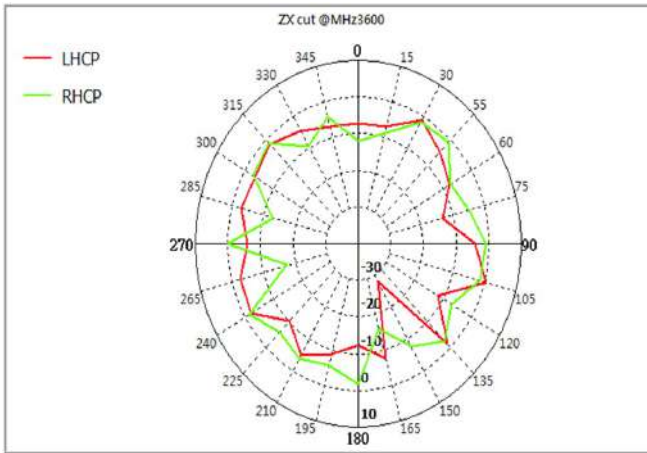
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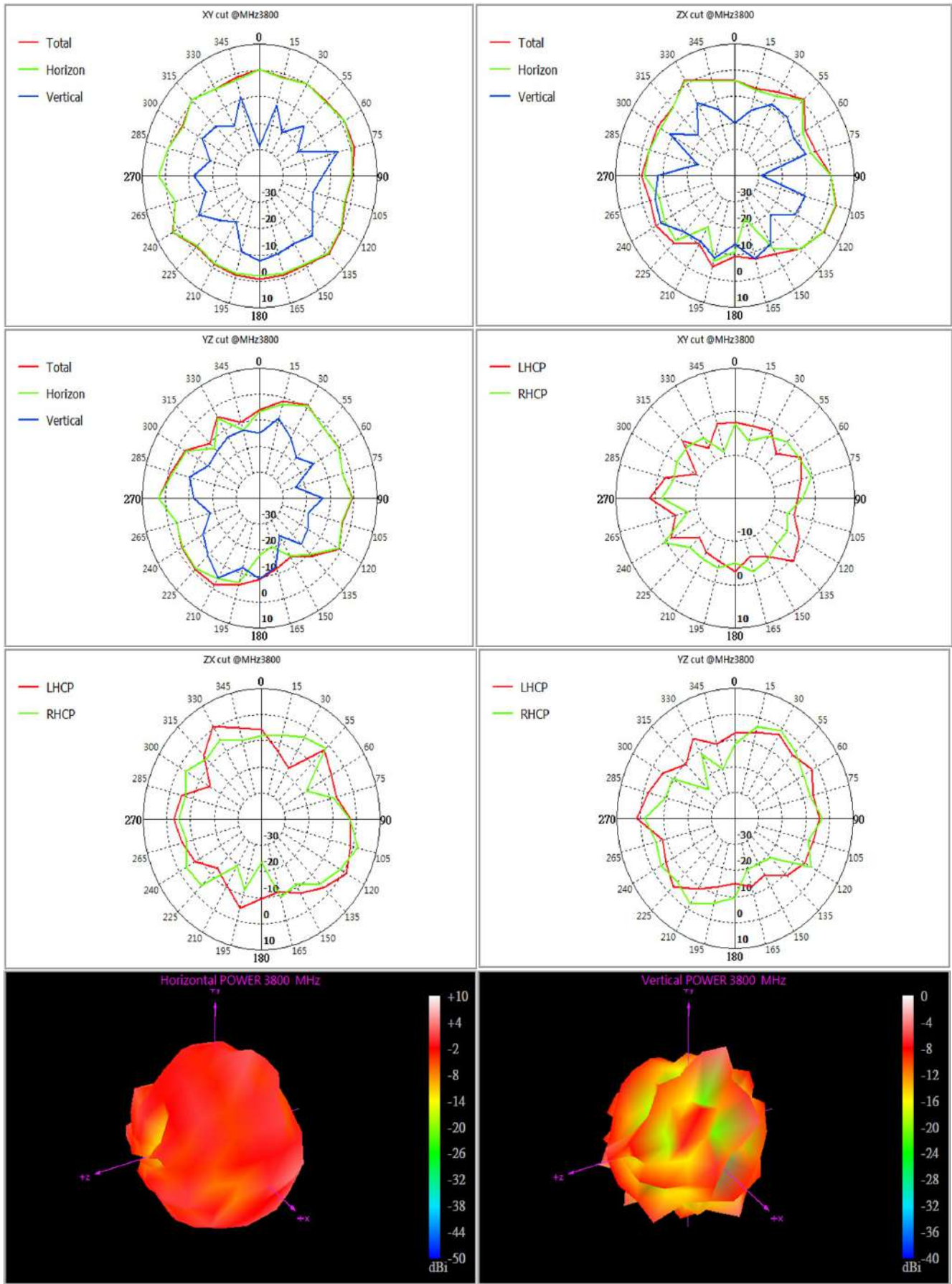


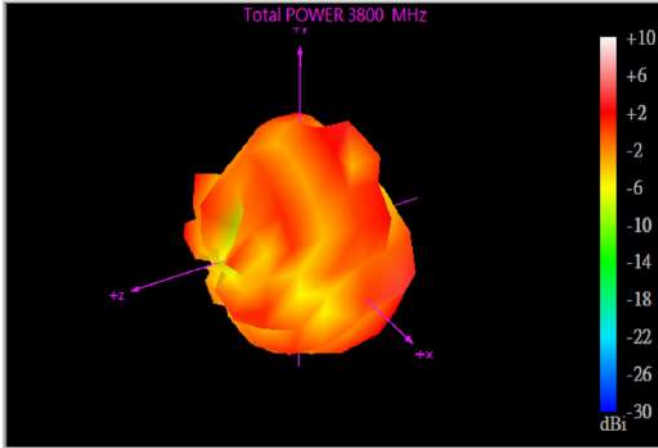
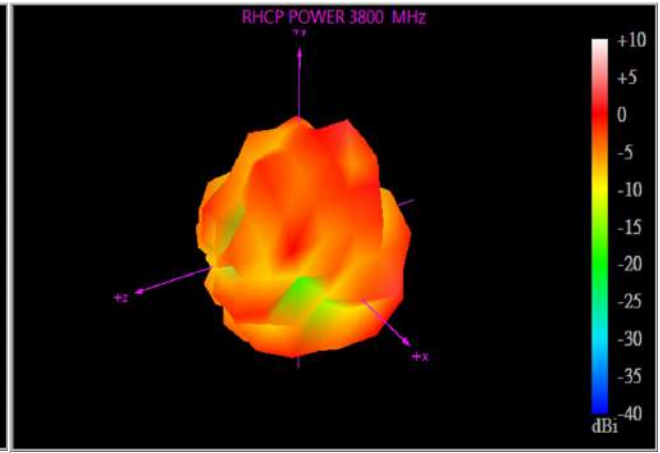
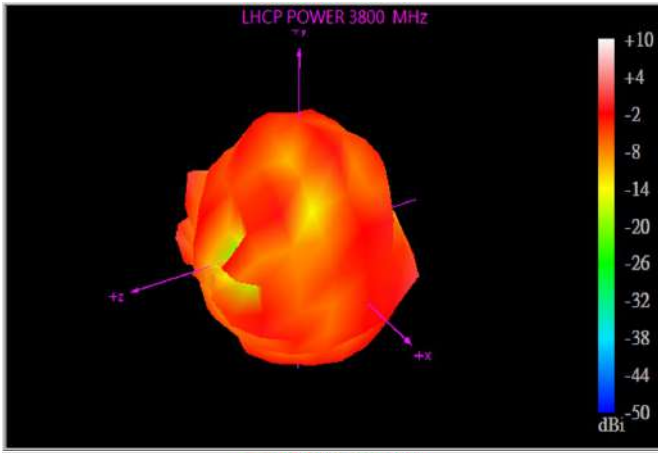
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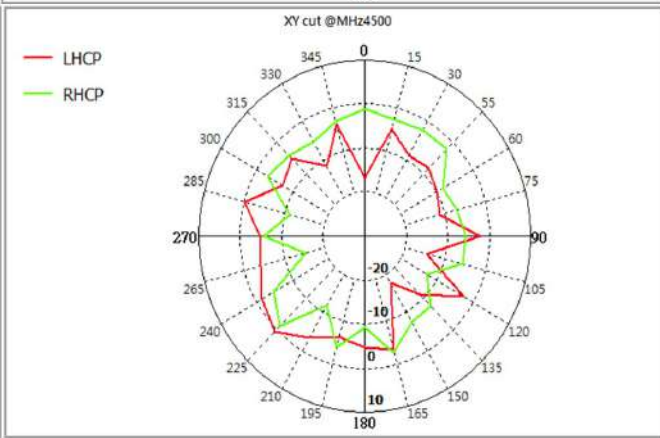
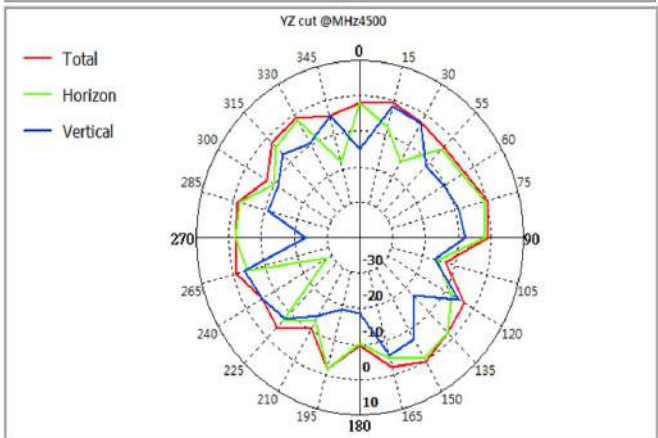
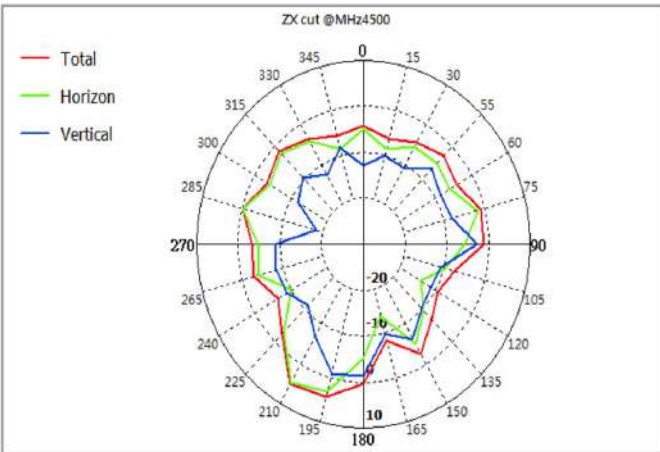
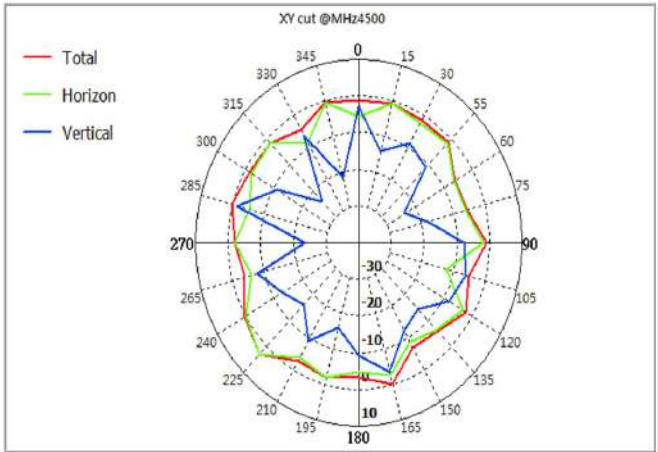


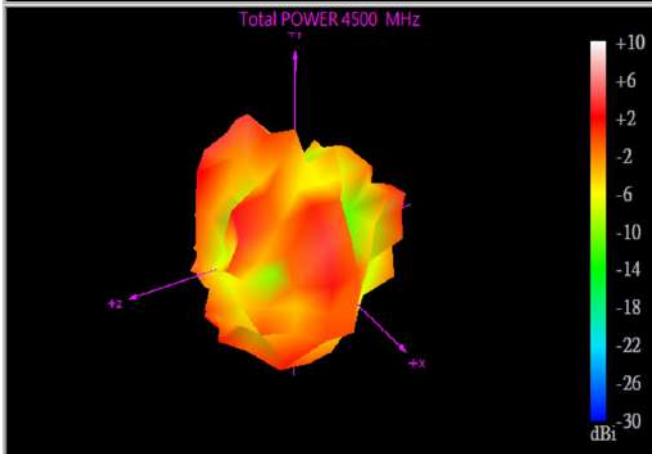
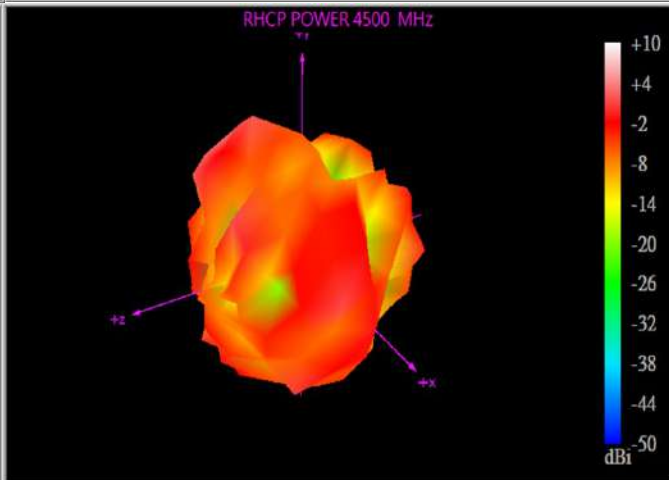
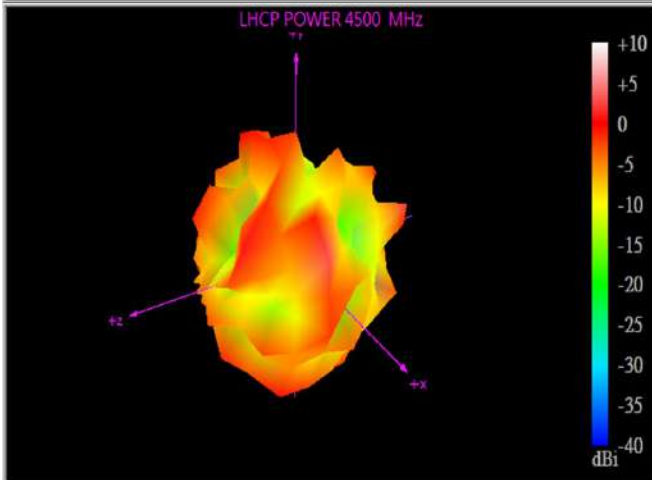
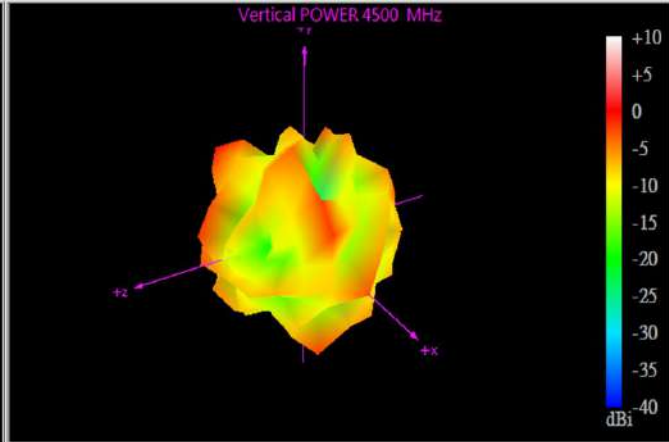
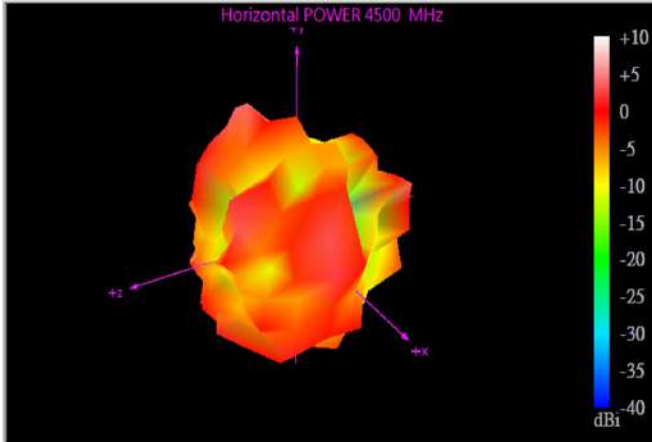
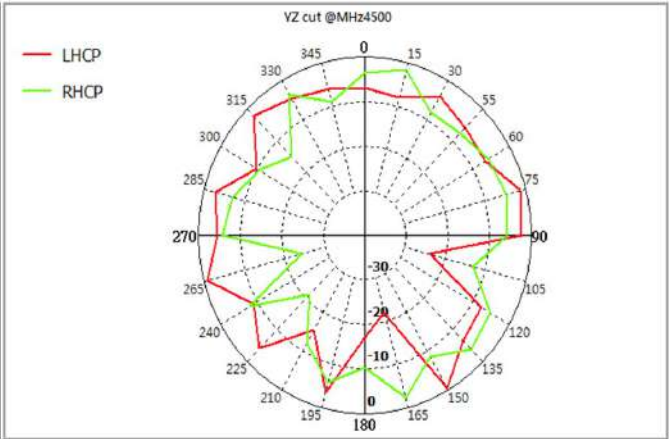
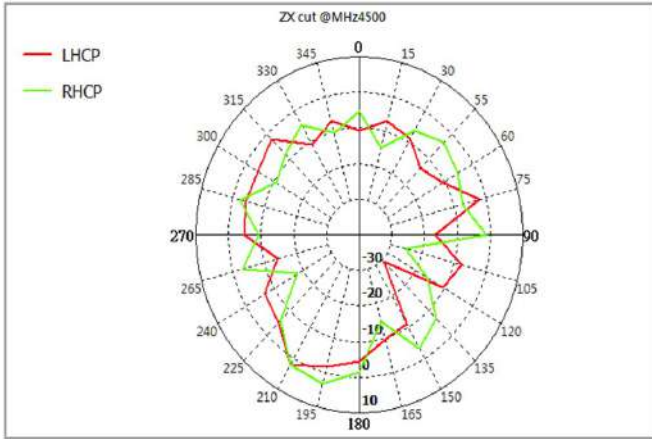
3800 Mhz:





4500 Mhz:





4850 Mhz:

