

UHF WHIP ANTENNA

Model : TH900R
FOR RFID UHF & ISM & ZigBee



1. GENERAL DESCRIPTION

P/N
TH900R-TNC(M)

1.1 Electrica Properties

Parameter	Description
Frequency Band	860~930MHz
Nominal Impedance	50 ohm
Polarization	Vertical
Return Loss	Please See Data-1
V.S.W.R	2.0:1

1.2 Mechanical Properties

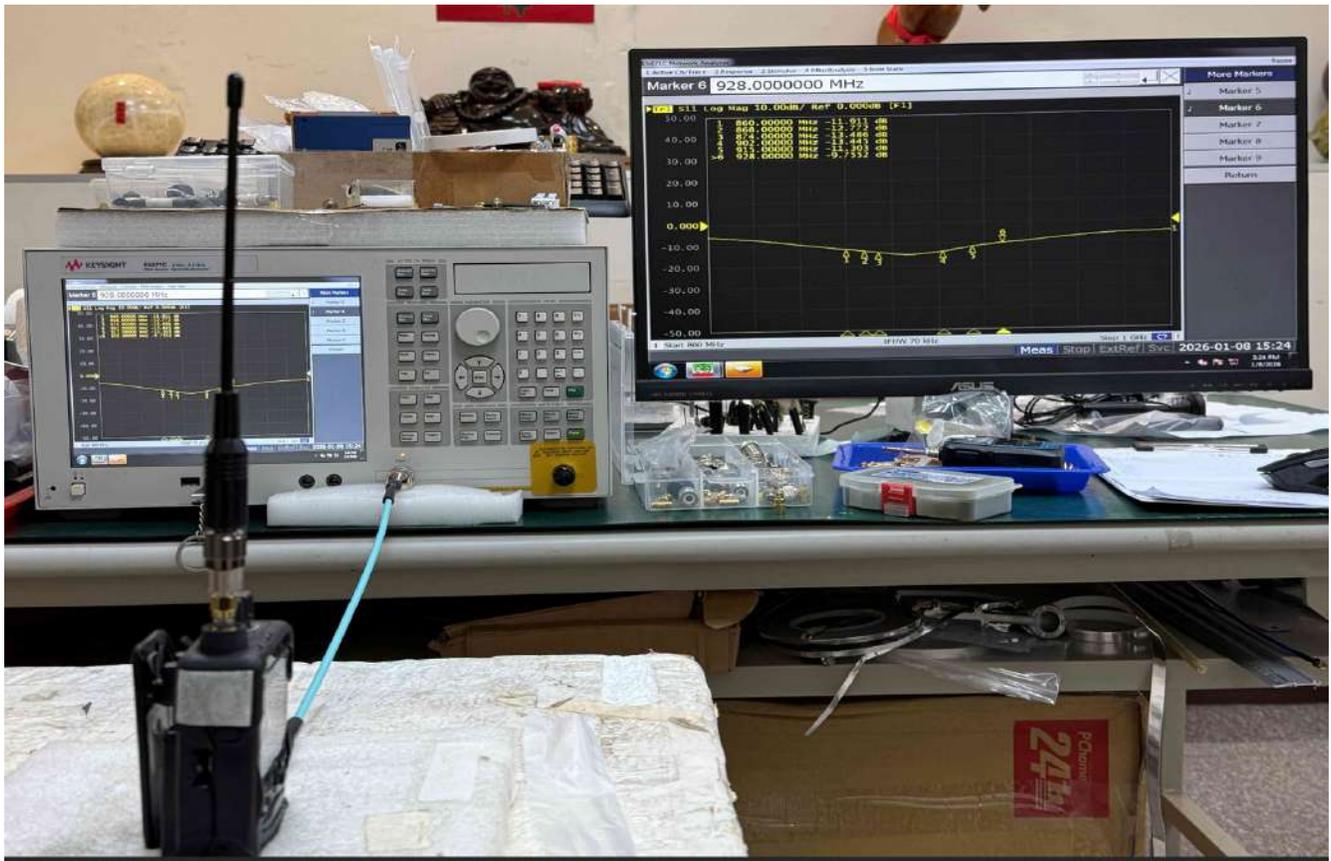
Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type
Connector Type	TNC (male)
Antenna Dimensions	OD14.9 x196mm±2
Color	Black
Operating Temperature Range	-30°C~+70°C
Storage Temperature Range	-30°C~+70°C
Waterproof	IPX6

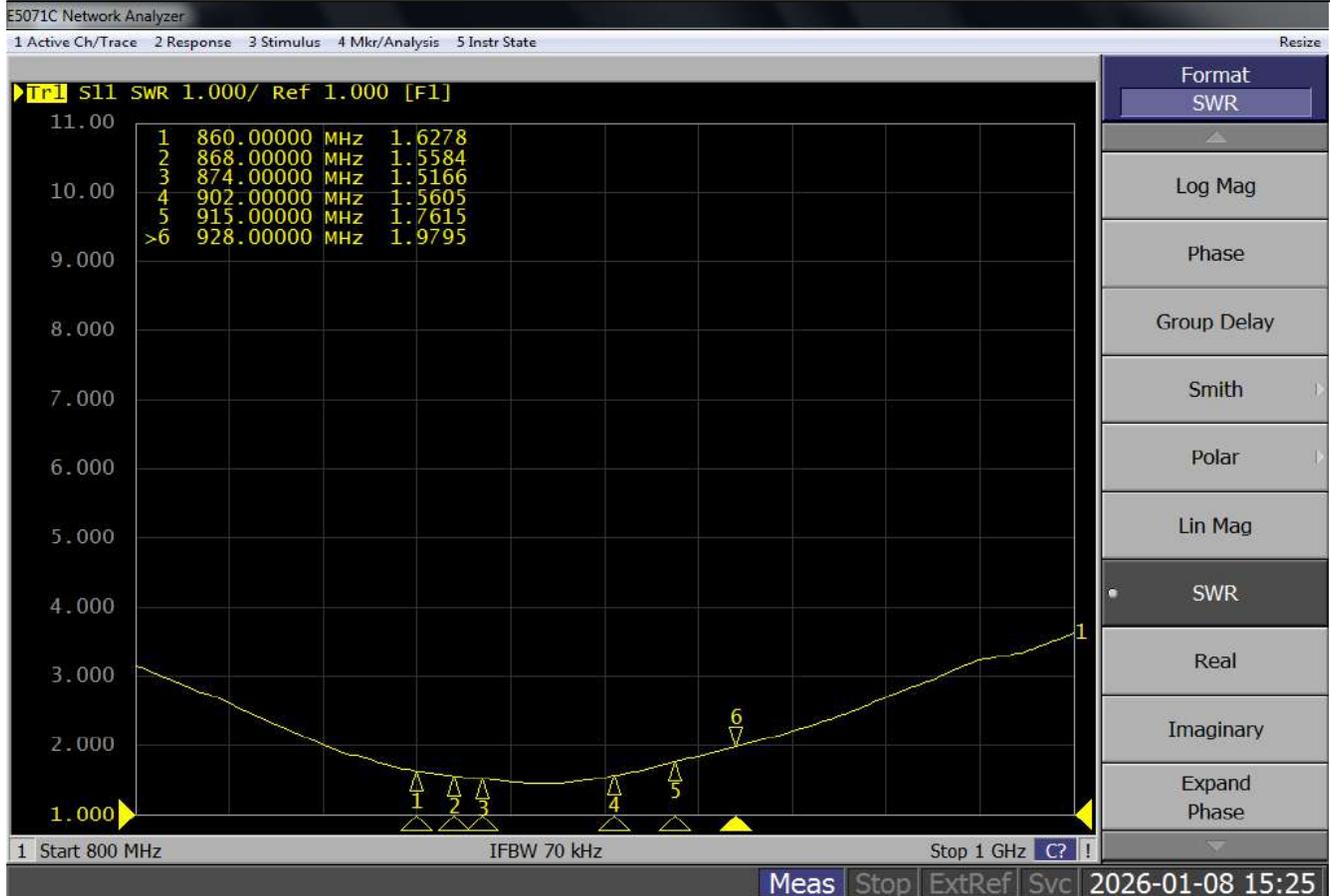
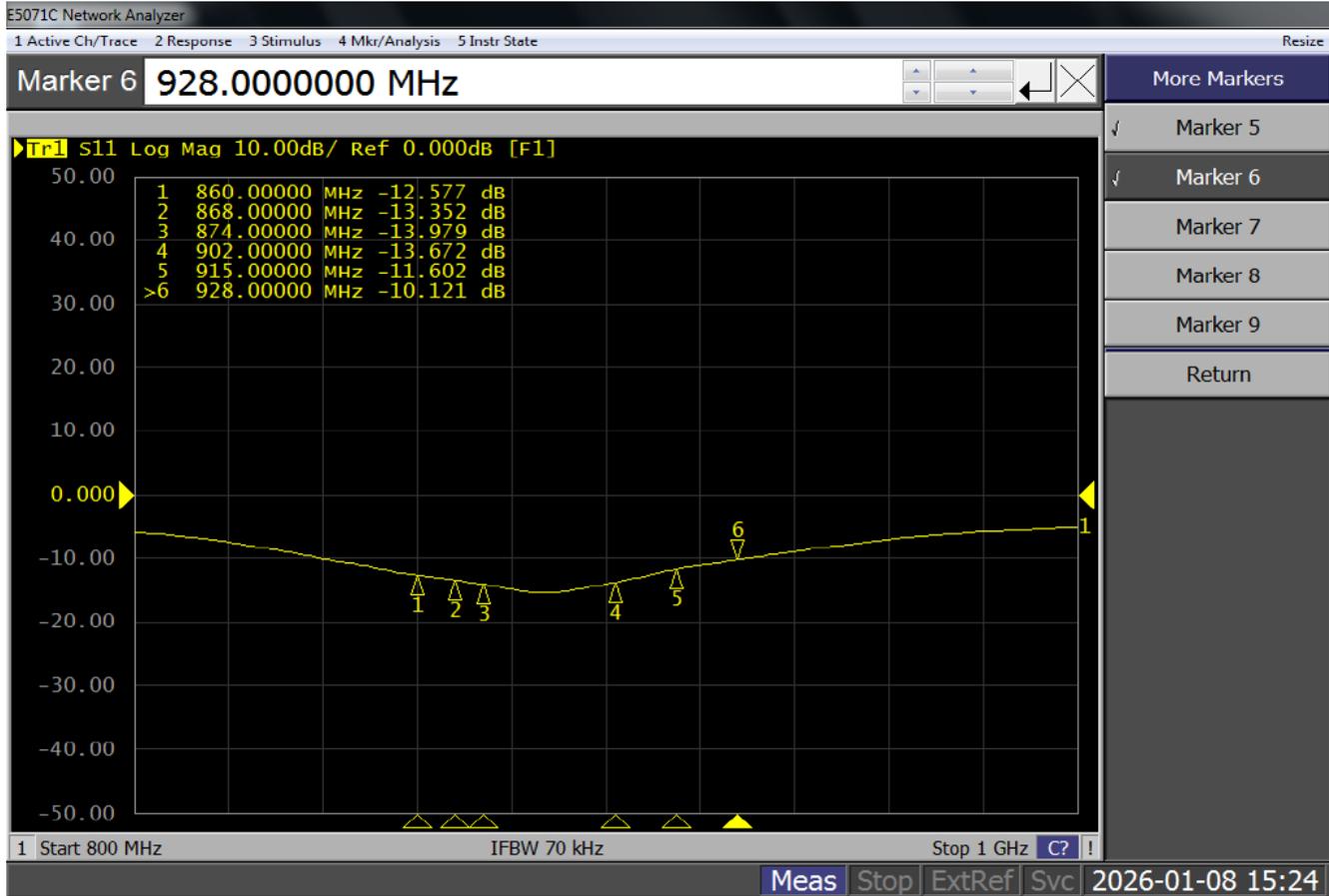
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2. Appearance



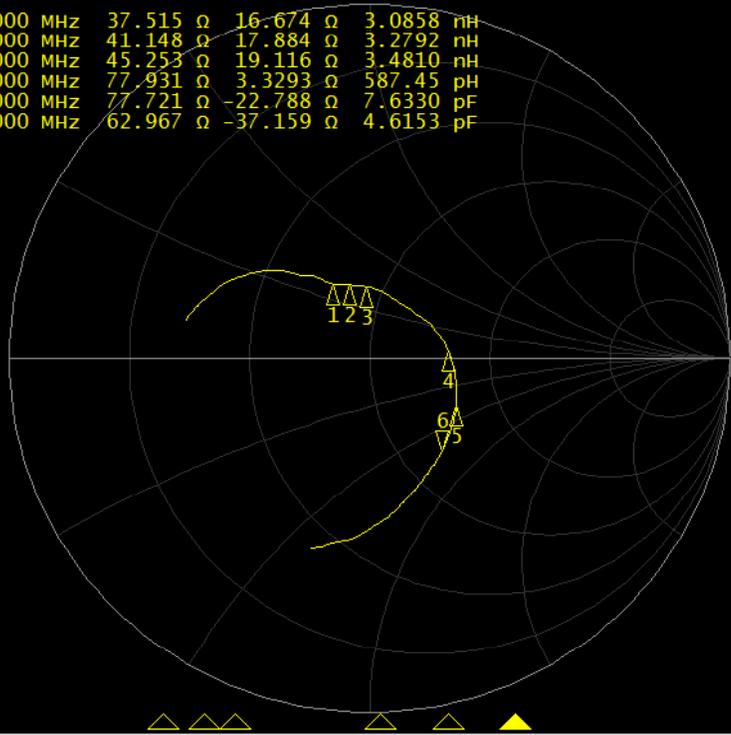
3. FREQUENCY





▶ Tr1 S11 Smith (R+jX) Scale 1.000U [F1]

1	860.00000	MHz	37.515	Ω	16.674	Ω	3.0858	nH
2	868.00000	MHz	41.148	Ω	17.884	Ω	3.2792	nH
3	874.00000	MHz	45.253	Ω	19.116	Ω	3.4810	nH
4	902.00000	MHz	77.931	Ω	3.3293	Ω	587.45	pH
5	915.00000	MHz	77.721	Ω	-22.788	Ω	7.6330	pF
>6	928.00000	MHz	62.967	Ω	-37.159	Ω	4.6153	pF



Format
Smith (R+jX)

Log Mag

Phase

Group Delay

Smith
R + jX

Polar

Lin Mag

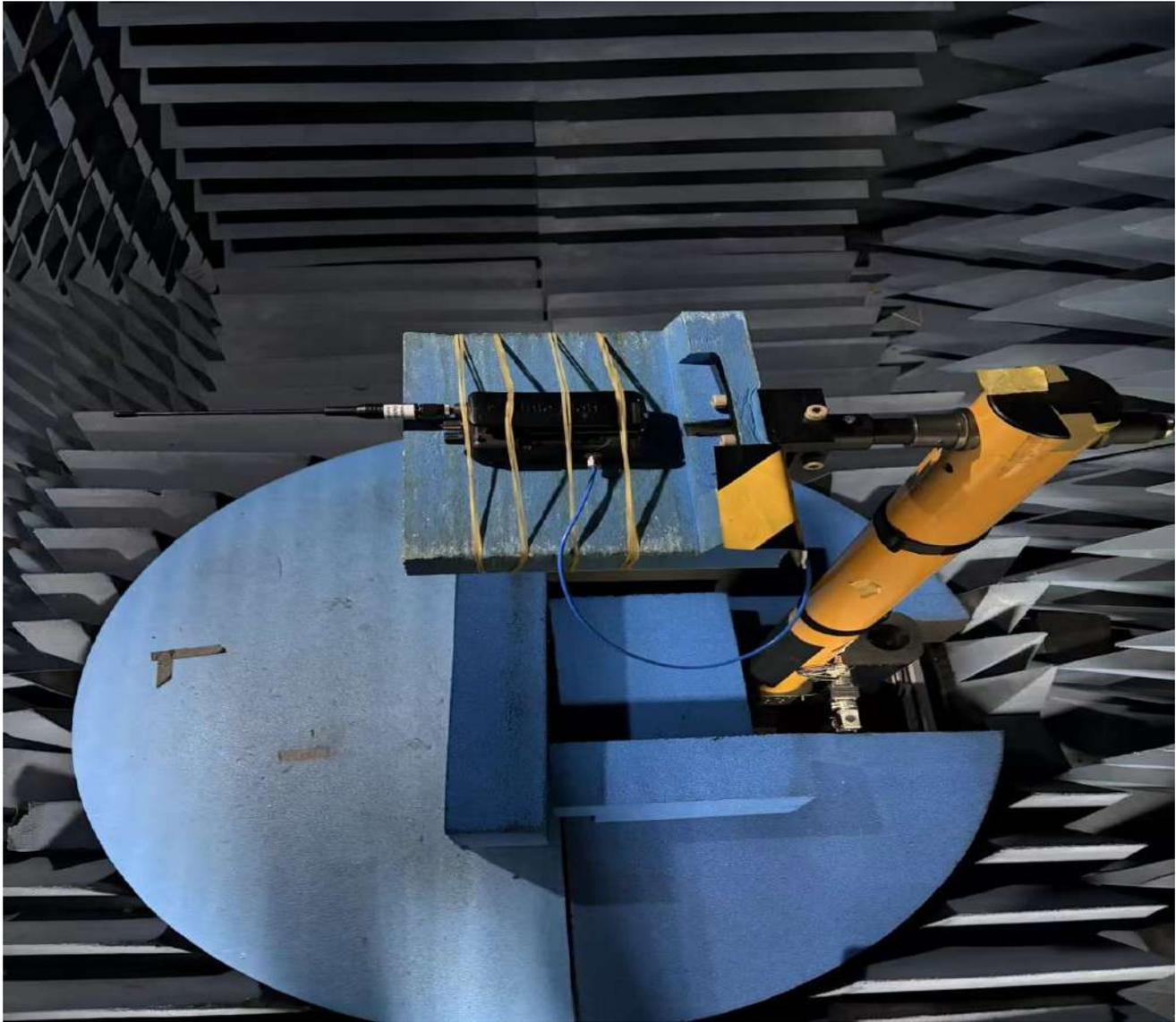
SWR

Real

Imaginary

Expand Phase

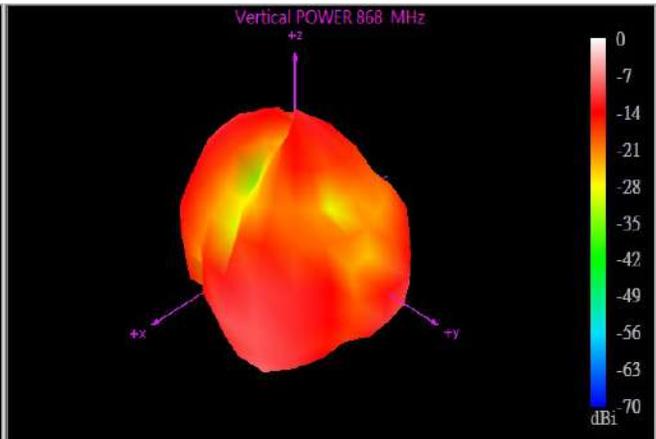
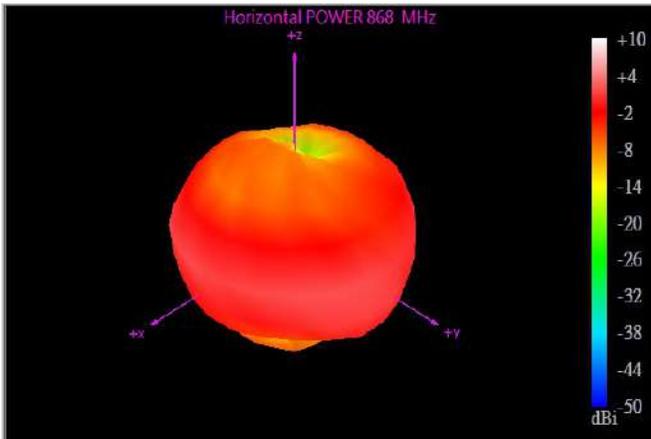
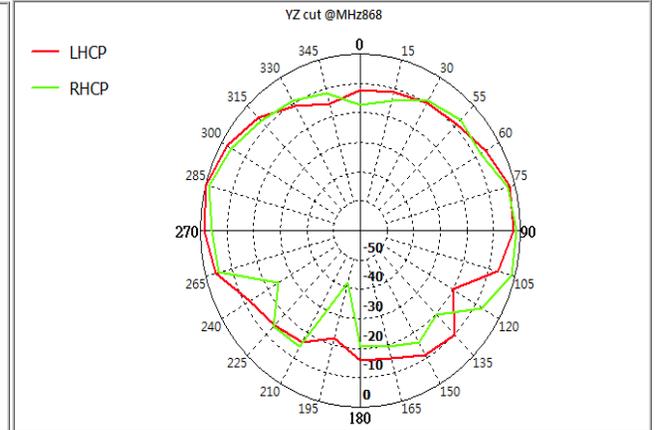
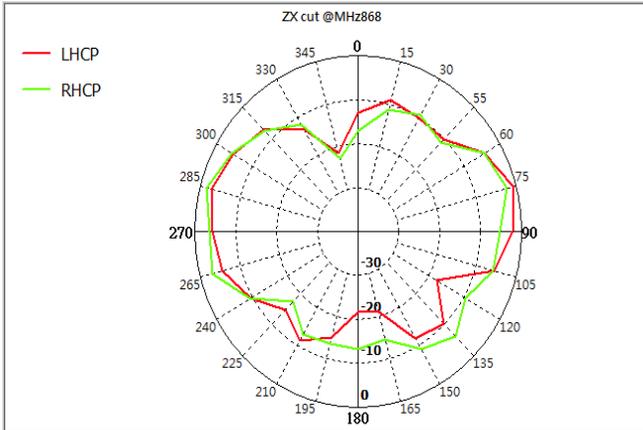
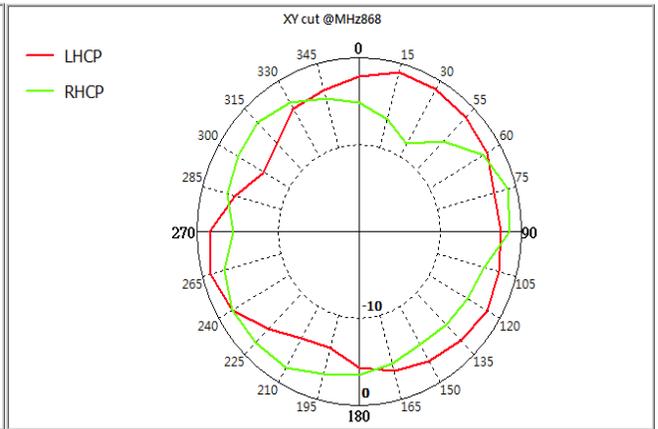
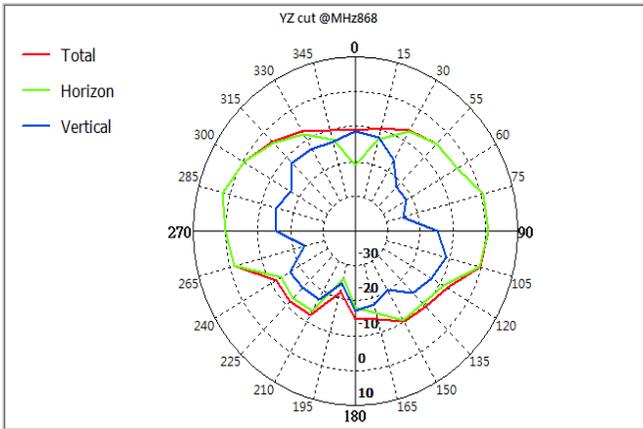
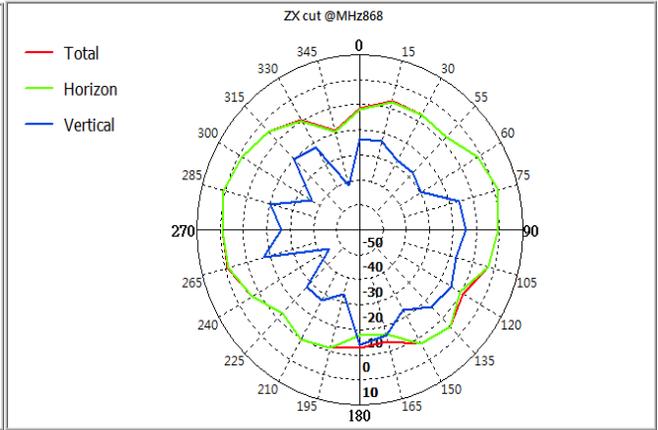
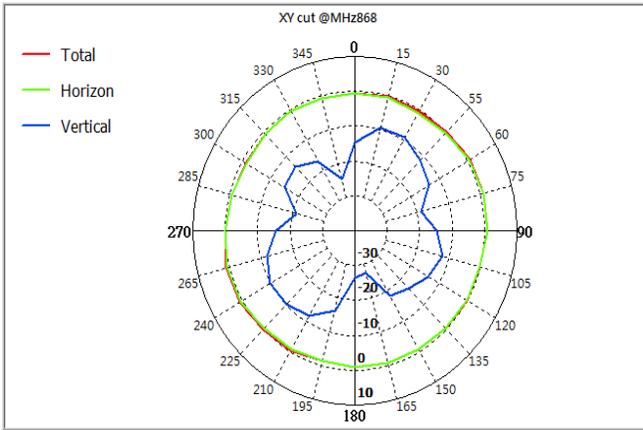
1 Start 800 MHz IFBW 70 kHz Stop 1 GHz C?

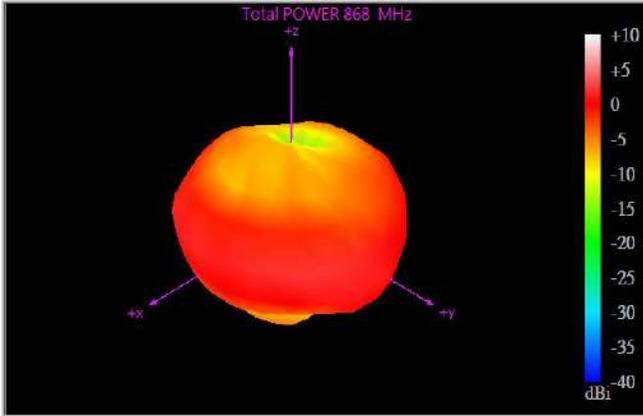
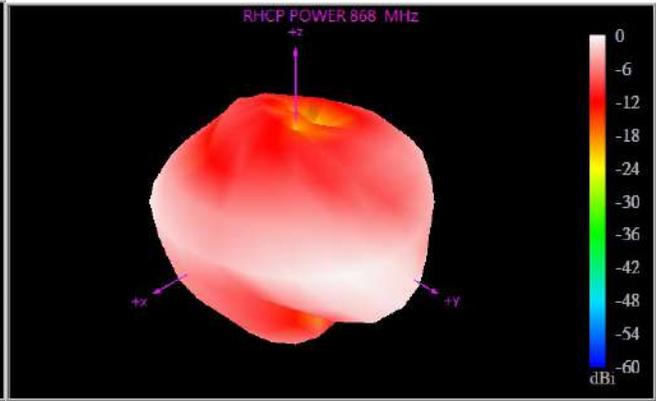
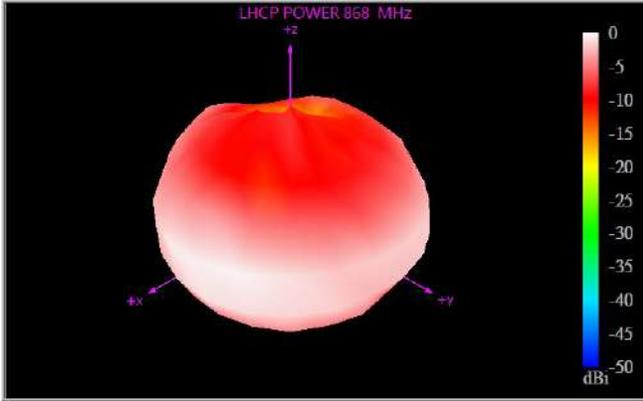


3D Total

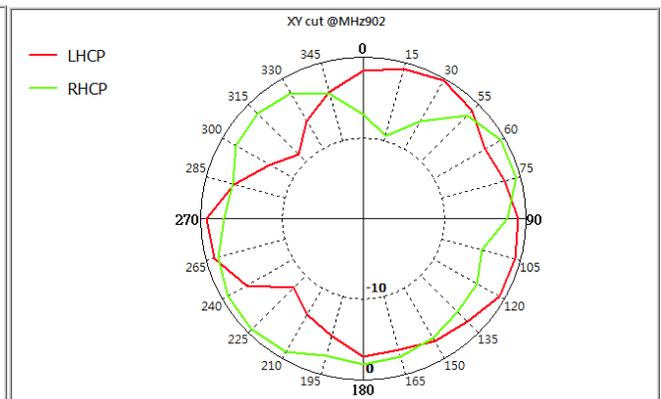
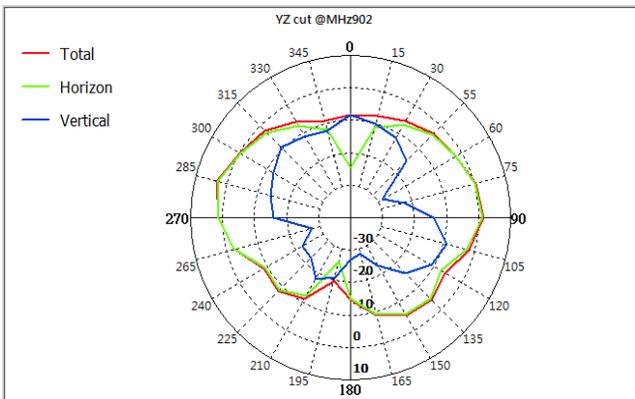
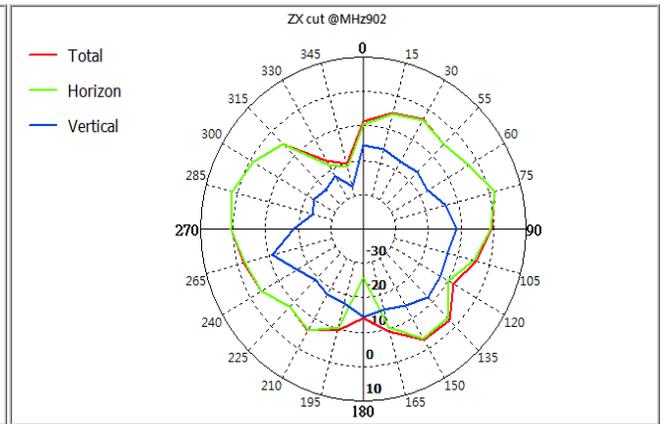
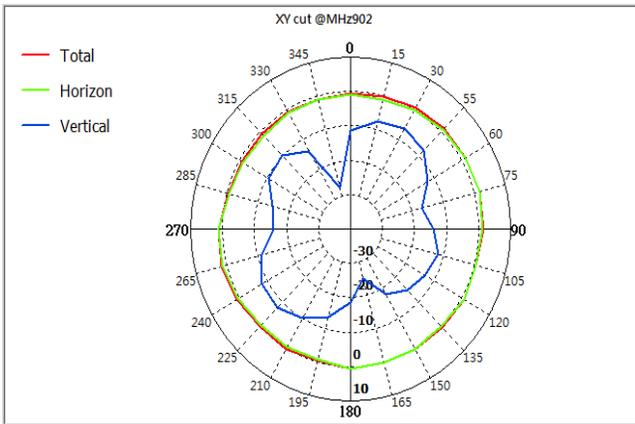
Frequency (MHz)	Upper Hem. PRP (dBm)	Lower HEM. PRP (dBm)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Tot. Rad.Pwr. (dBm)
850 MHz	-5.21	-7.88	-3.33	46.42	1.94	-3.33
860 MHz	-4.64	-7.24	-2.74	53.25	2.63	-2.74
868 MHz	-4.83	-7.25	-2.86	51.71	2.41	-2.86
874 MHz	-5.12	-7.41	-3.10	48.93	2.17	-3.10
902 MHz	-4.17	-6.64	-2.22	59.98	3.26	-2.22
915 MHz	-4.43	-7.03	-2.53	55.90	2.52	-2.53
928 MHz	-4.66	-7.33	-2.78	52.67	1.89	-2.78
930 MHz	-4.85	-7.61	-3.01	50.03	1.92	-3.01
960 MHz	-6.26	-8.49	-4.22	37.82	0.62	-4.22

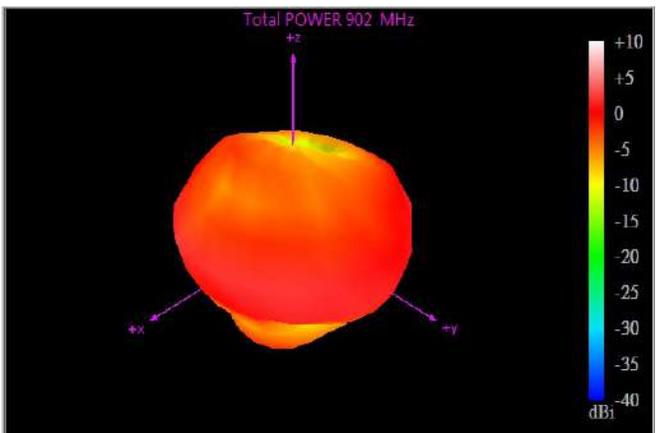
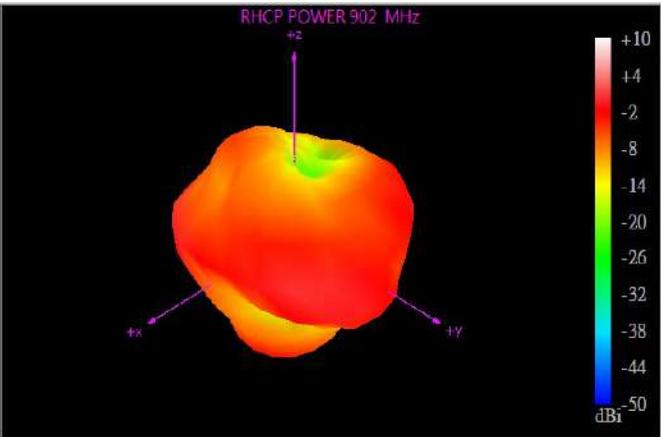
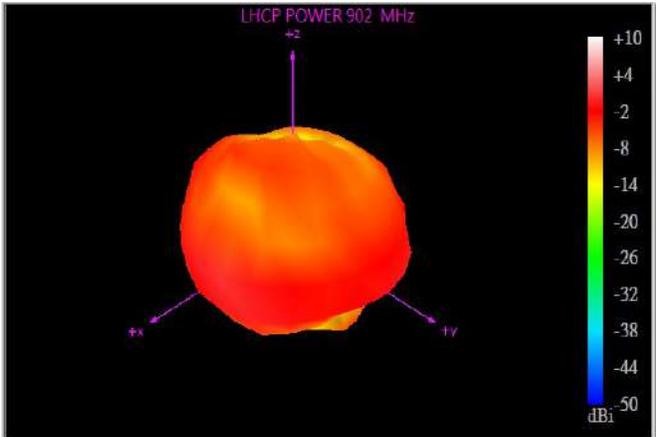
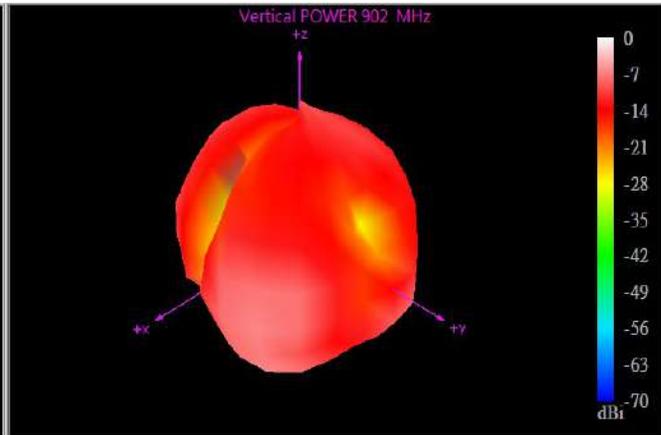
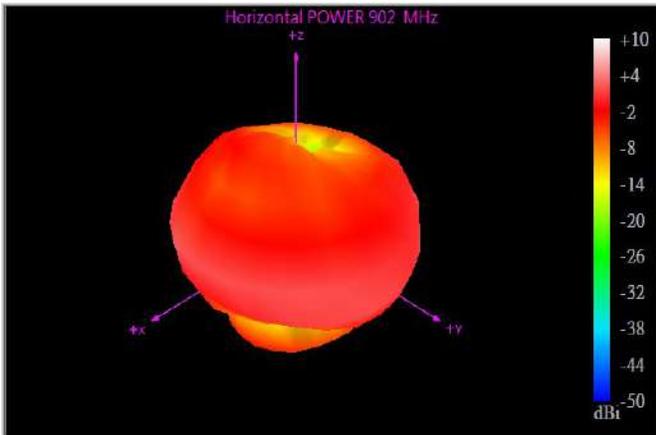
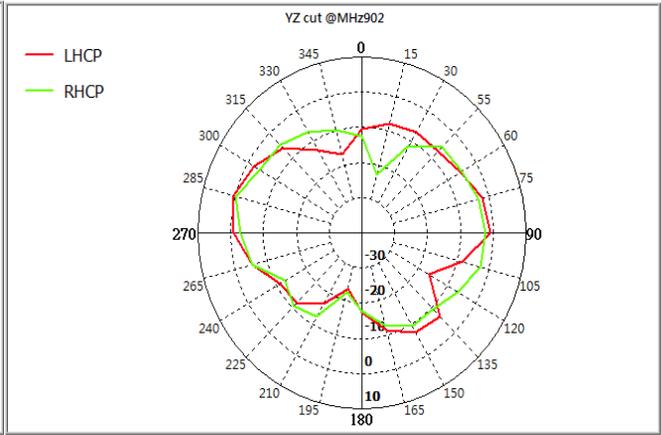
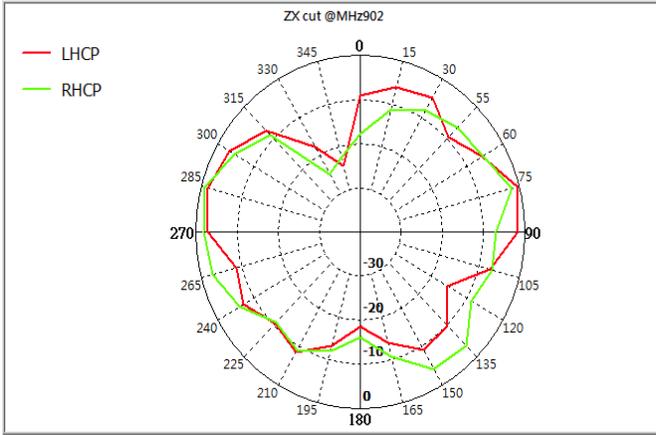
868Mhz:



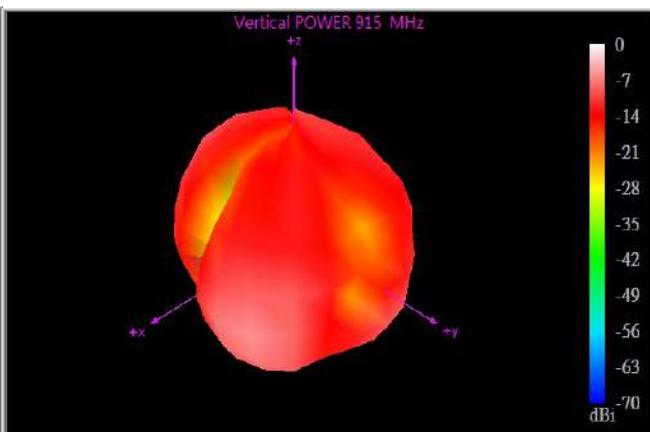
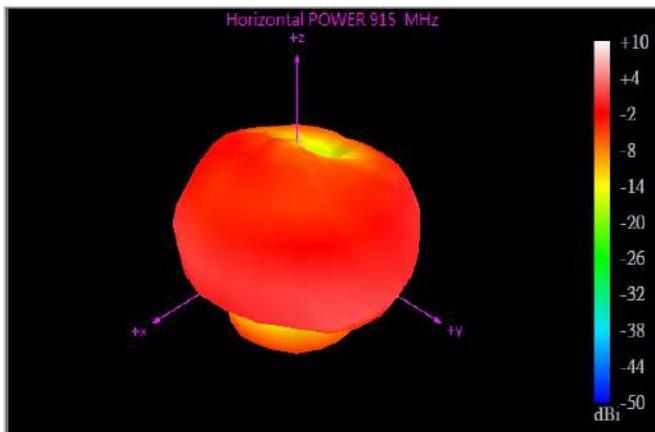
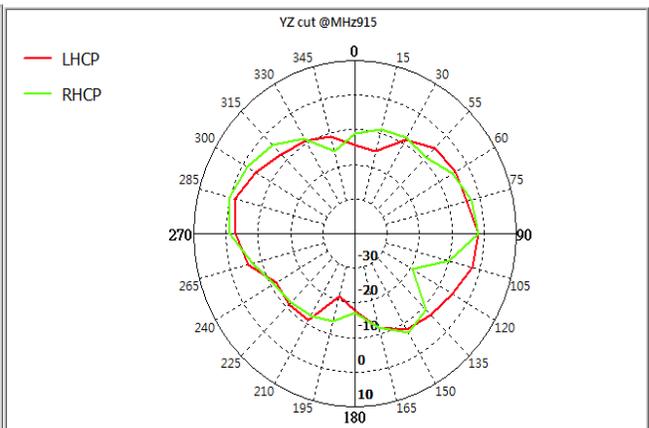
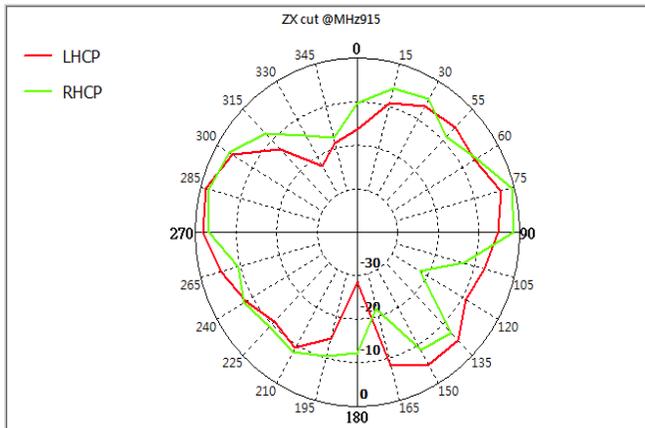
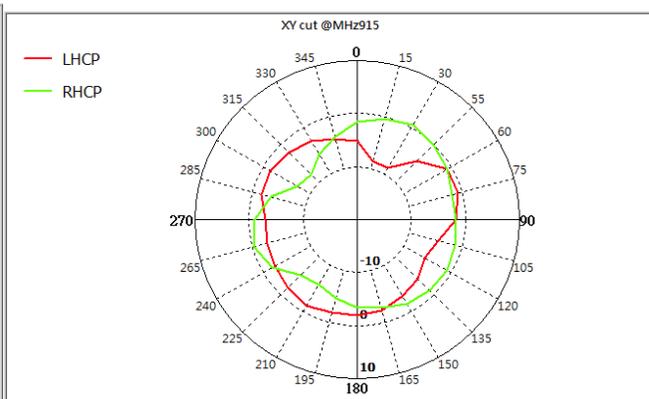
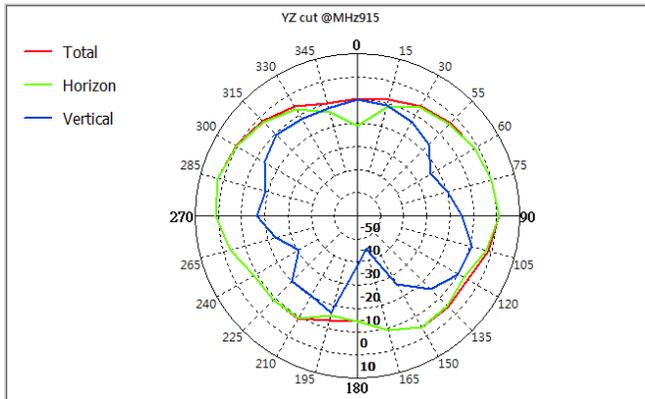
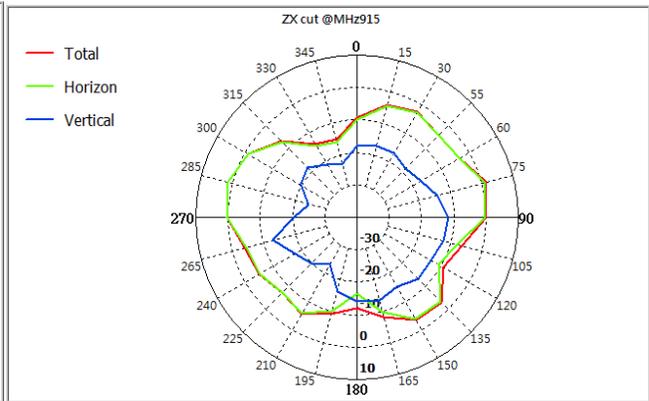
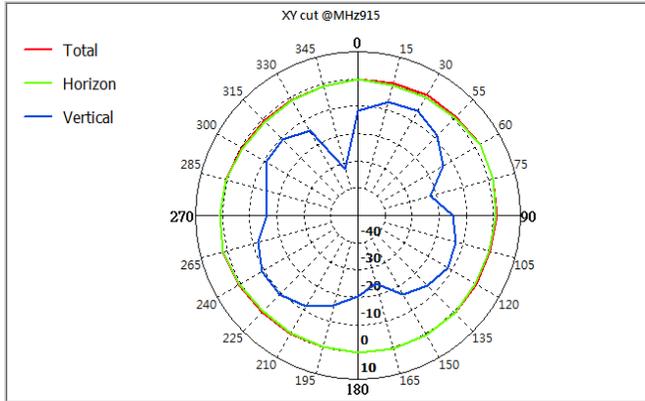


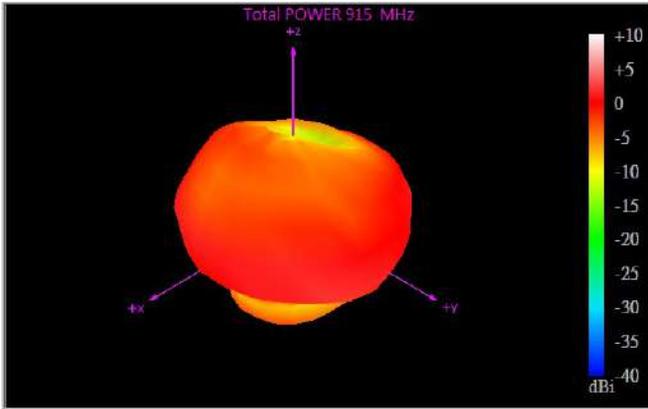
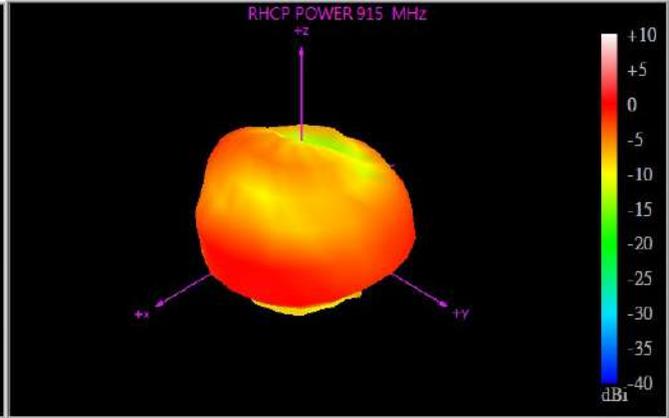
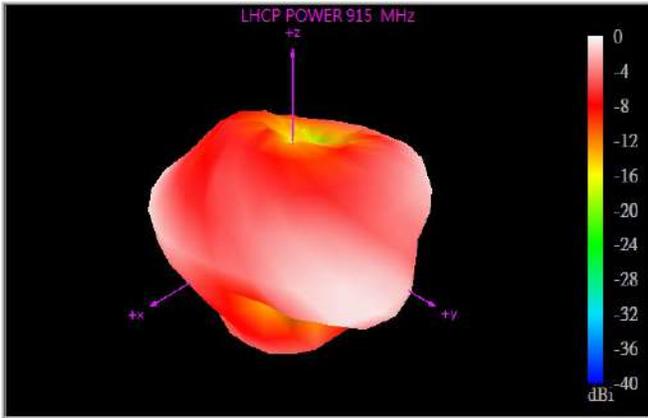
902Mhz:





915Mhz:





928Mhz:

