

900Mhz & 2.4G Dual Band Antenna

MODEL: TH-9024C-TNC(M)



1. GENERAL DESCRIPTION

| Model No | P/N |
|----------|----------------|
| TH-9024C | TH9024C-TNC(M) |

Below is a table summarizing the antenna design specification.

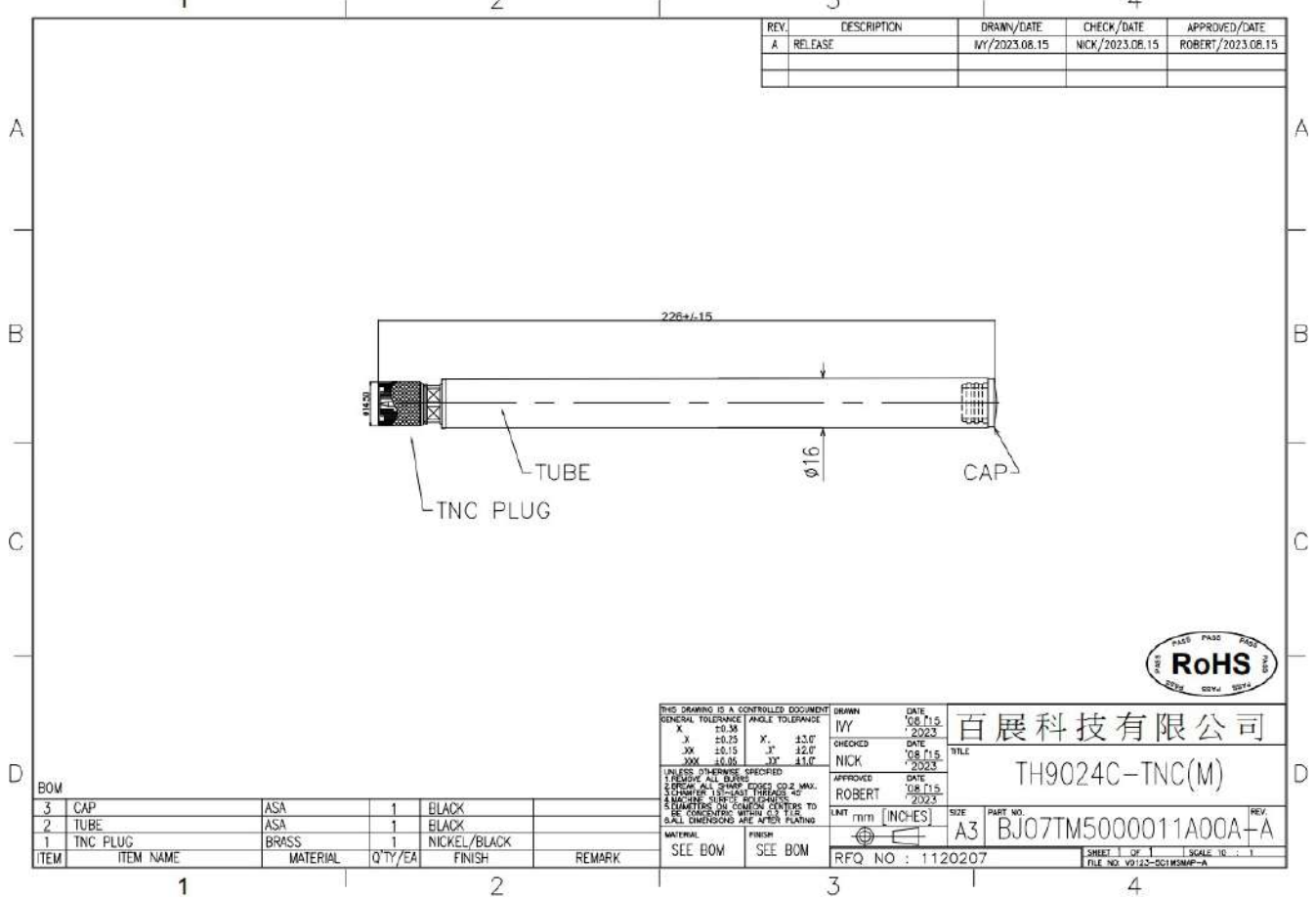
1.1 Electrical Properties

| Parameter | Description |
|-------------------|--------------------------|
| Frequency Band | 902~928 MHz & 2.4~2.5Ghz |
| Nominal Impedance | 50 ohm |
| Polarization | Vertical |
| Electrical Wave | Dipole |
| Return Loss | Please See Data-1 |
| V.S.W.R | 2.0 : 1 |
| Gain | 3db |

1.2 Mechanical Properties

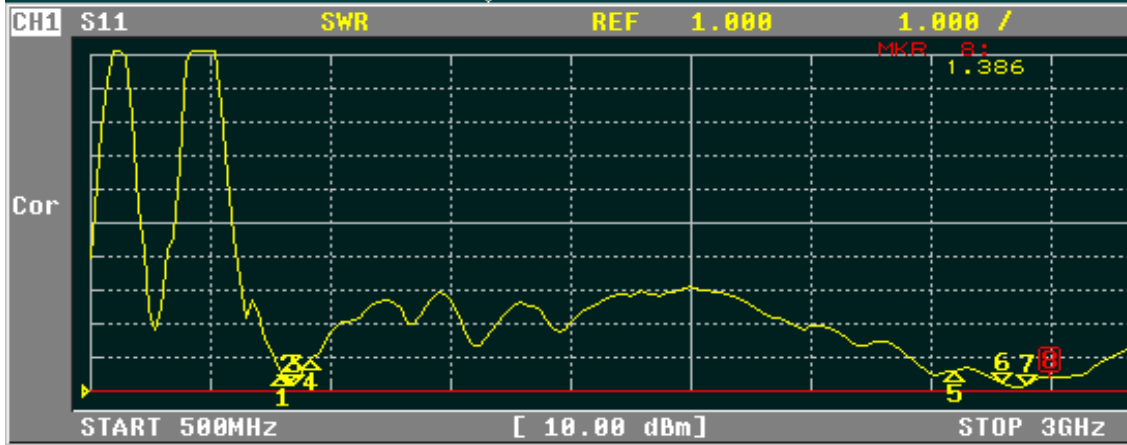
| Parameter | Description |
|-----------------------------|------------------|
| Antenna Type | External Antenna |
| Touch Type | Screw Type |
| Connector Type | TNC(Male) |
| Antenna Dimensions | 226mm \pm 15 |
| Antenna Color | Black |
| Operating Temperature Range | -40°C~+85°C |
| Storage Temperature Range | -40°C~+85°C |

2. Appearance



3. Frequency



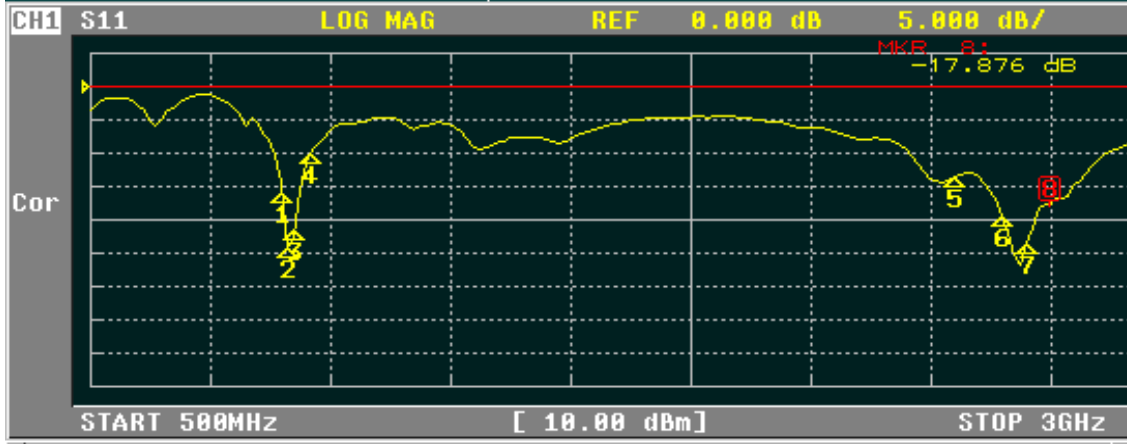


CH1 MARKER LIST

| | | |
|-----|--------------|-------|
| 1: | 902.000MHz | 1.462 |
| 2: | 915.000MHz | 1.168 |
| 3: | 928.000MHz | 1.223 |
| 4: | 960.000MHz | 1.934 |
| 5: | 2.300 000GHz | 1.623 |
| 6: | 2.400 000GHz | 1.251 |
| 7: | 2.450 000GHz | 1.190 |
| 8: | 2.500 000GHz | 1.370 |
| 9: | | |
| 10: | | |

FORMAT

- 1] SWR
- 2] REAL
- 3] IMAG
- 4] PHASE -∞, +∞
- 5] LOG MAG & PHASE
- 6] LOG MAG & DELAY
- 7] LIN MAG & PHASE
- 8] More 2/2

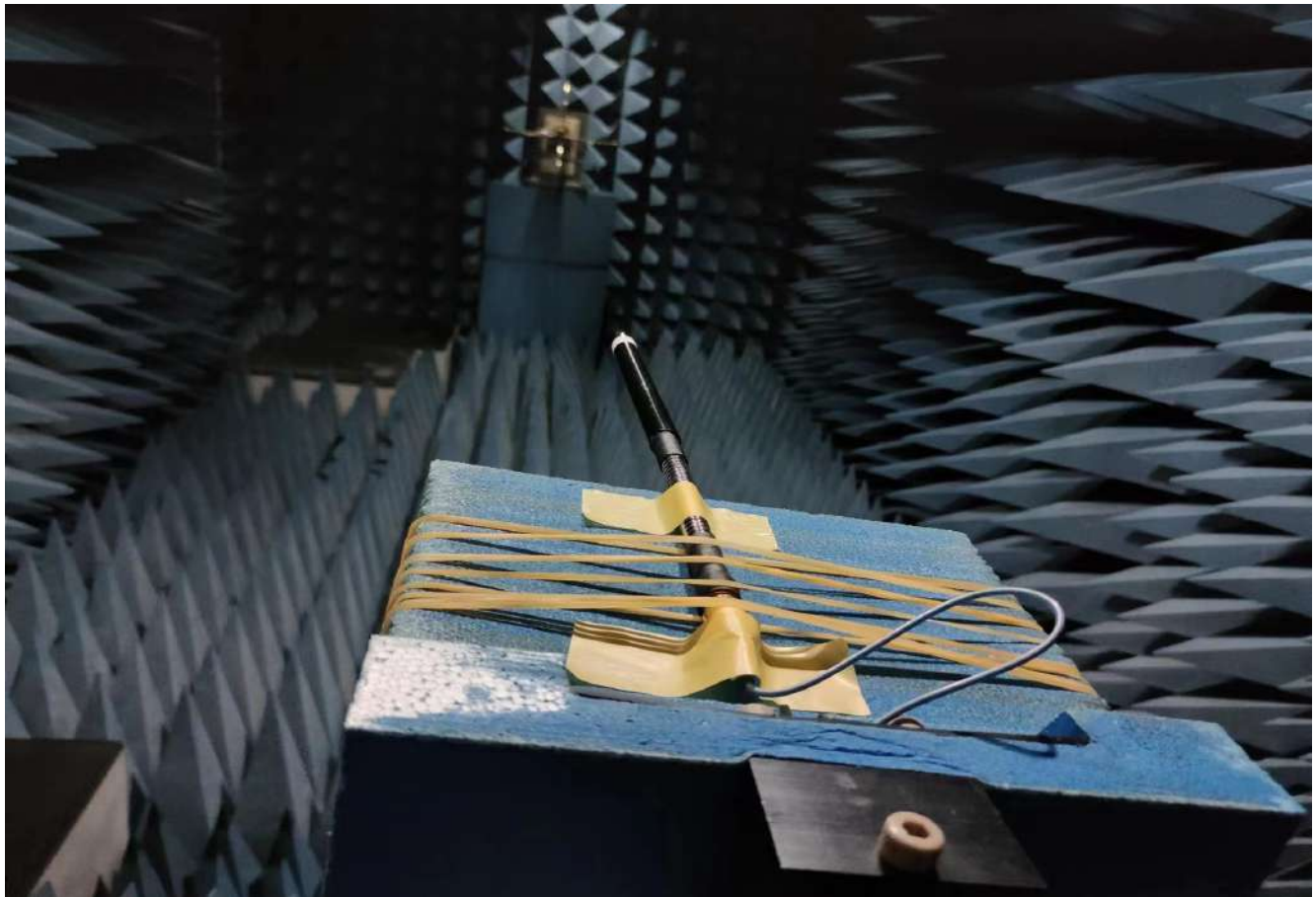
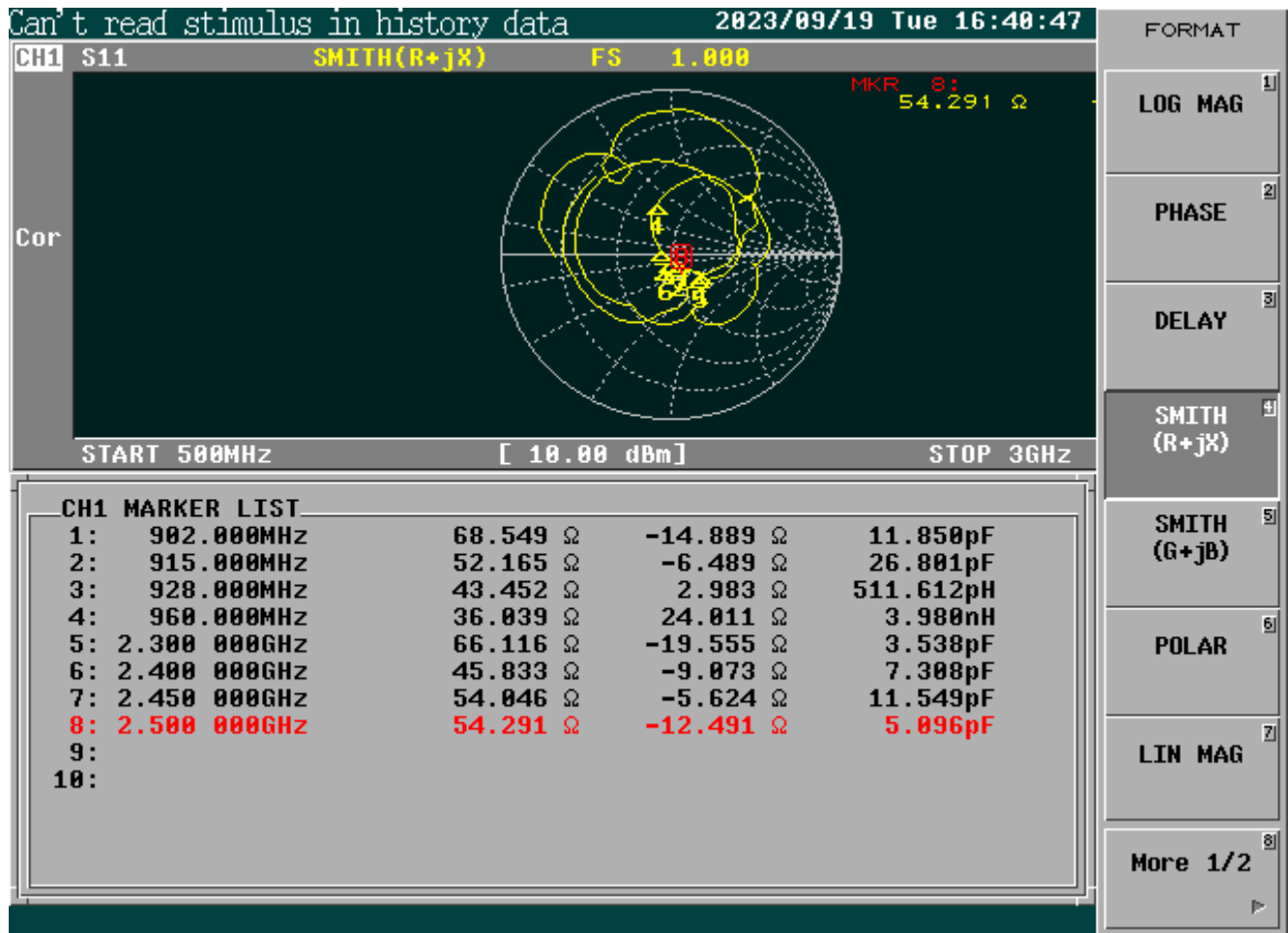


CH1 MARKER LIST

| | | |
|-----|--------------|------------|
| 1: | 902.000MHz | -16.027 dB |
| 2: | 915.000MHz | -23.837 dB |
| 3: | 928.000MHz | -20.848 dB |
| 4: | 960.000MHz | -9.935 dB |
| 5: | 2.300 000GHz | -13.575 dB |
| 6: | 2.400 000GHz | -19.402 dB |
| 7: | 2.450 000GHz | -23.505 dB |
| 8: | 2.500 000GHz | -17.876 dB |
| 9: | | |
| 10: | | |

FORMAT

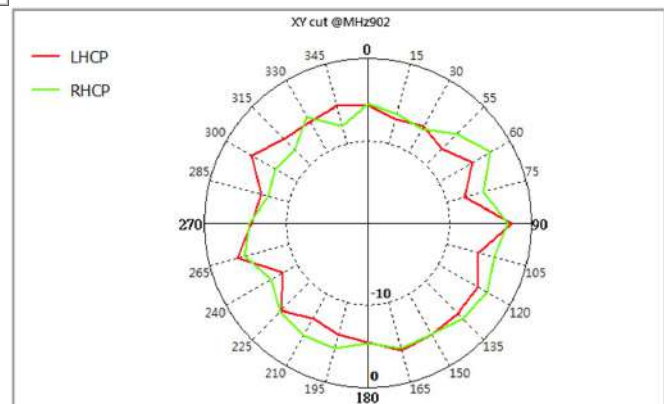
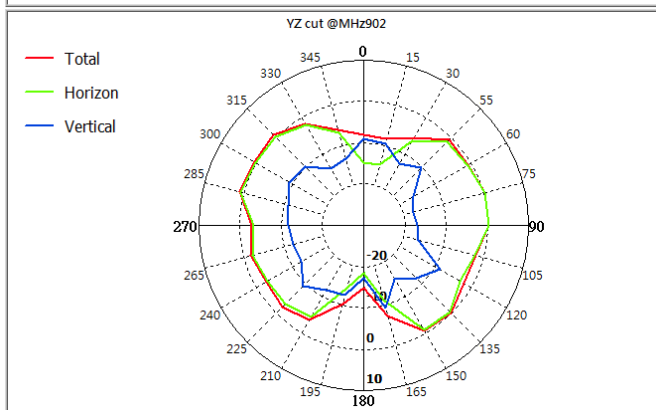
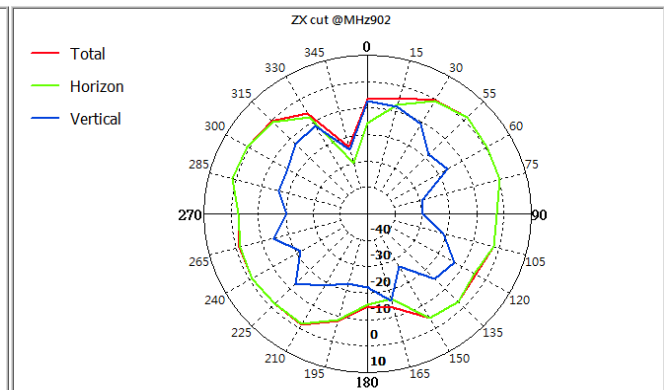
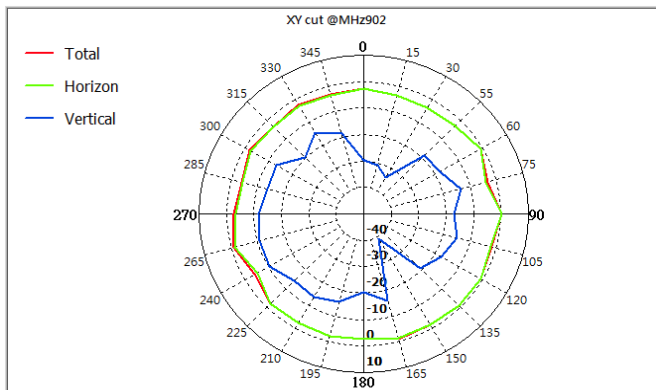
- 1] LOG MAG
- 2] PHASE
- 3] DELAY
- 4] SMITH (R+jX)
- 5] SMITH (G+jB)
- 6] POLAR
- 7] LIN MAG
- 8] More 1/2

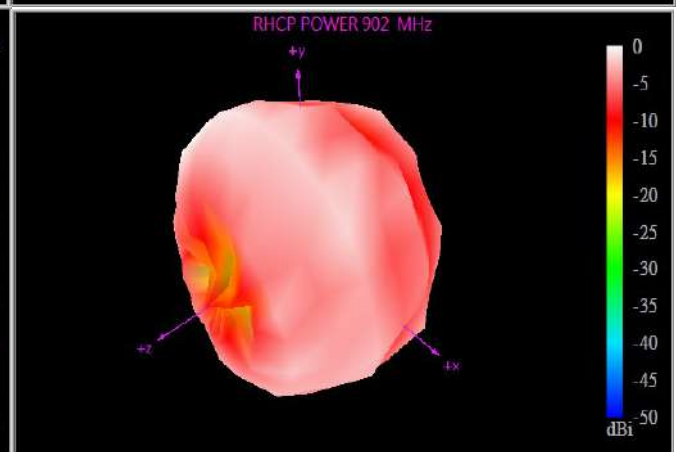
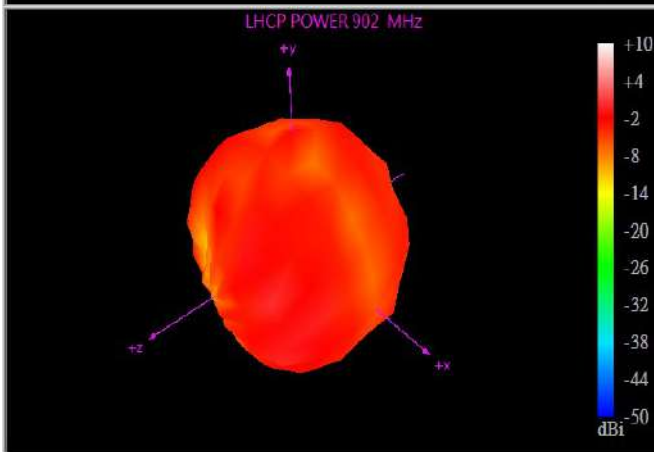
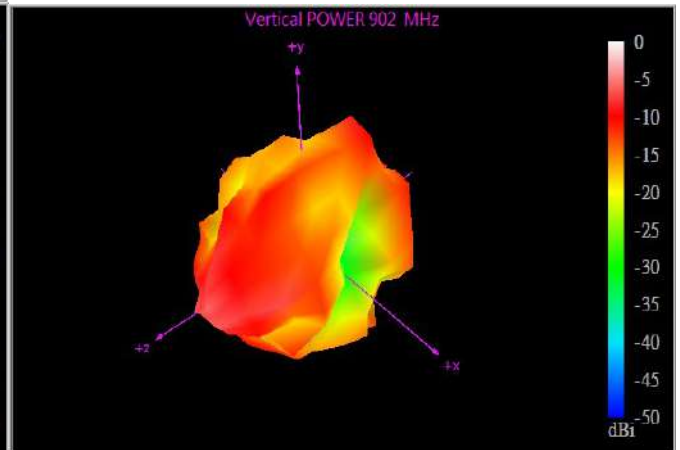
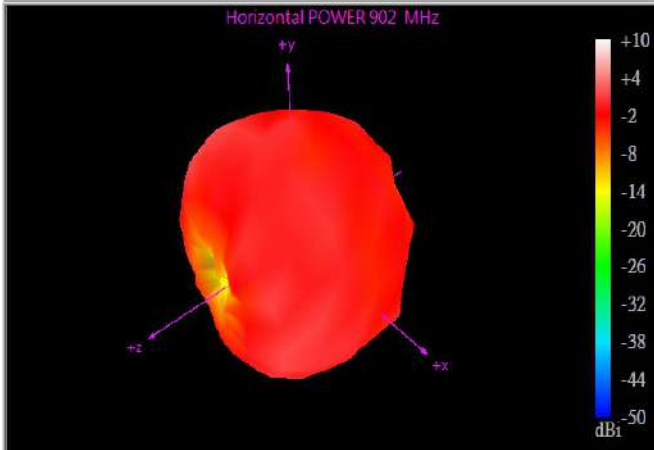
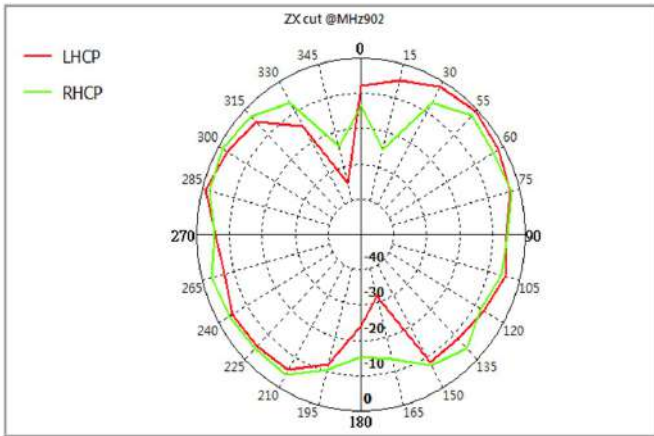
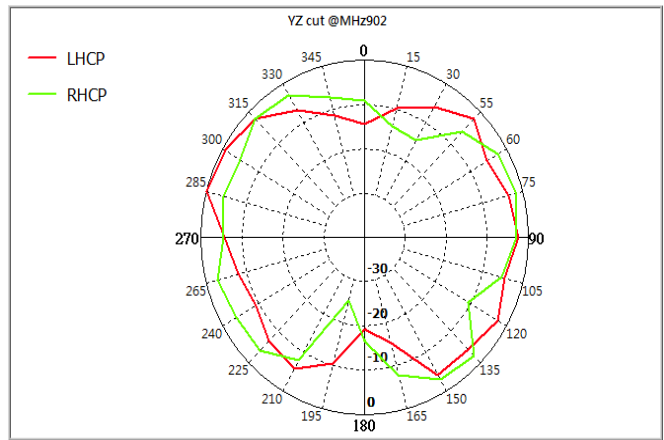


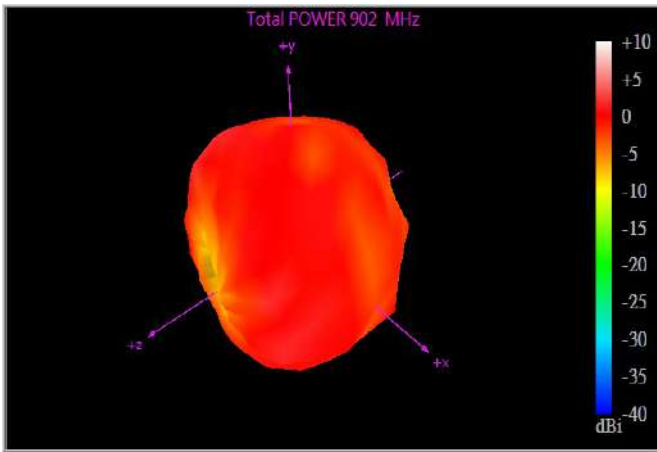
3D Total

| Frequency (MHz) | Upper Hem. PRP (dBm) | Lower HEM. PRP (dBm) | Efficiency (dB) | Efficiency (%) | Gain (dBi) | Tot. Rad.Pwr. (dBm) |
|-----------------|----------------------|----------------------|-----------------|----------------|------------|---------------------|
| 902 MHz | -3.85 | -5.62 | -1.64 | 68.58 | 2.08 | -1.64 |
| 915 MHz | -3.65 | -5.38 | -1.42 | 72.11 | 2.06 | -1.42 |
| 928 MHz | -3.52 | -5.10 | -1.23 | 75.40 | 2.51 | -1.23 |
| 930 MHz | -3.52 | -5.09 | -1.22 | 75.51 | 2.08 | -1.22 |
| 960 MHz | -4.42 | -5.50 | -1.92 | 64.27 | 2.05 | -1.92 |
| 2300 MHz | -4.99 | -6.45 | -2.65 | 54.37 | 2.29 | -2.65 |
| 2350 MHz | -4.18 | -6.05 | -2.00 | 63.04 | 3.40 | -2.00 |
| 2400 MHz | -4.63 | -6.39 | -2.41 | 57.40 | 3.35 | -2.41 |
| 2450 MHz | -4.66 | -6.26 | -2.37 | 57.91 | 3.22 | -2.37 |
| 2500 MHz | -4.70 | -5.80 | -2.20 | 60.21 | 4.63 | -2.20 |
| 2600 MHz | -4.05 | -5.55 | -1.73 | 67.20 | 3.86 | -1.73 |

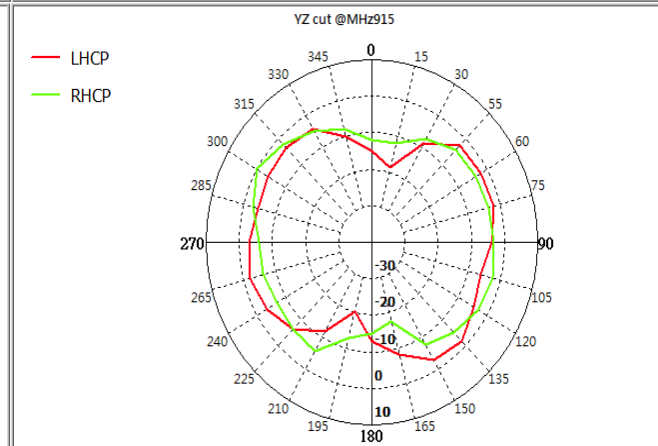
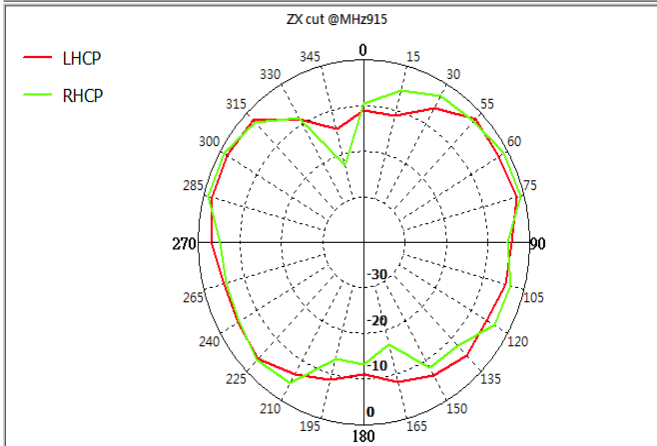
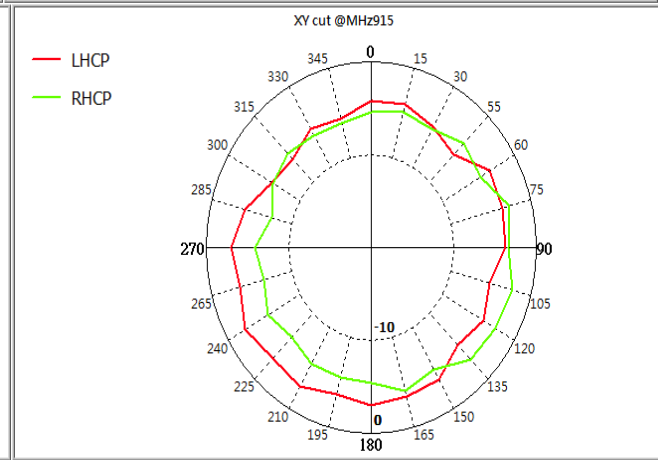
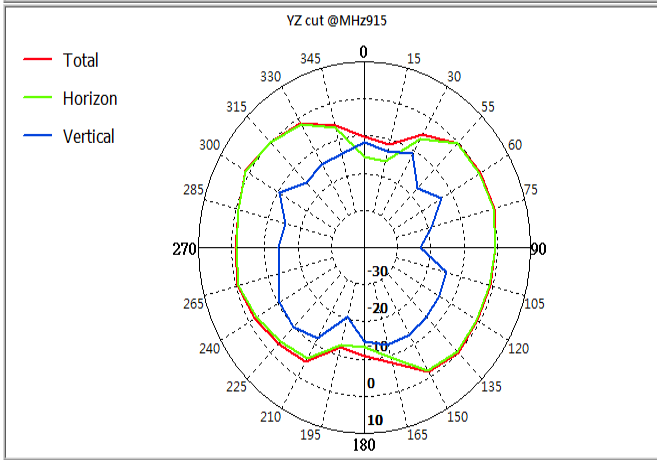
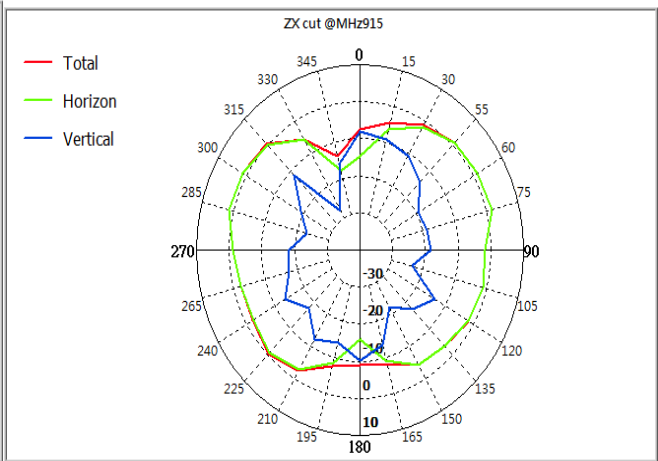
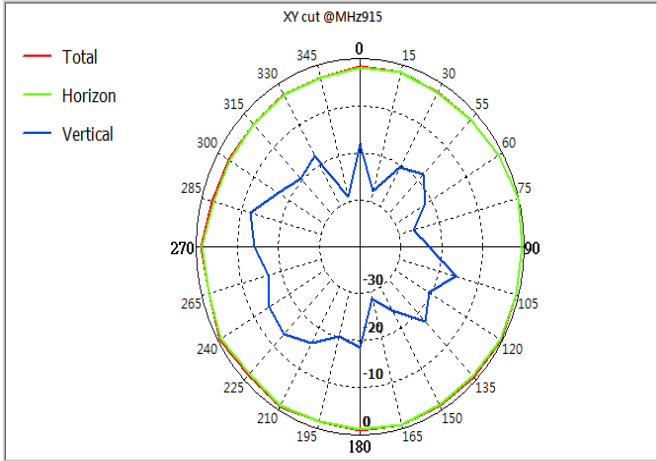
902Mhz:

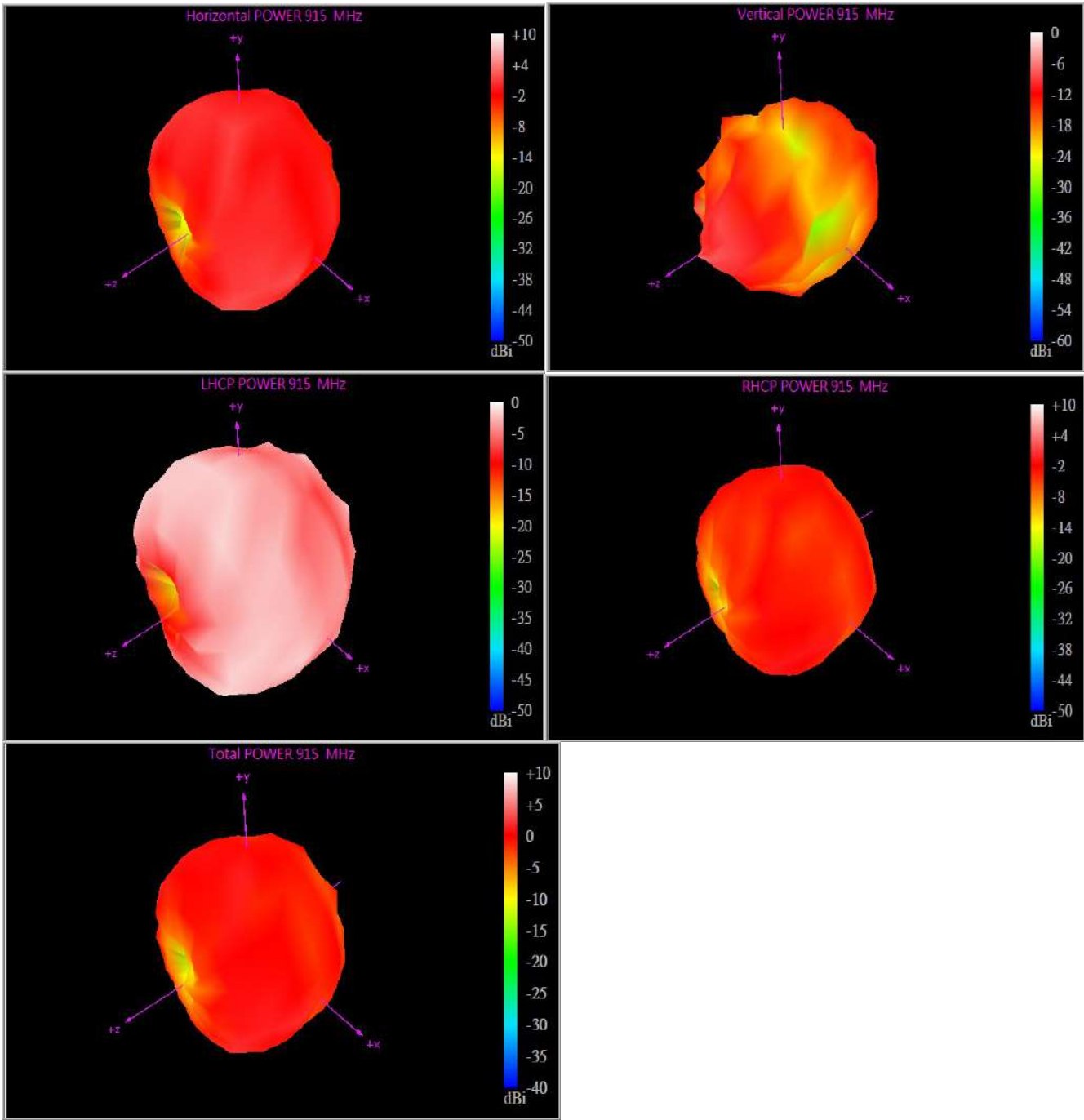




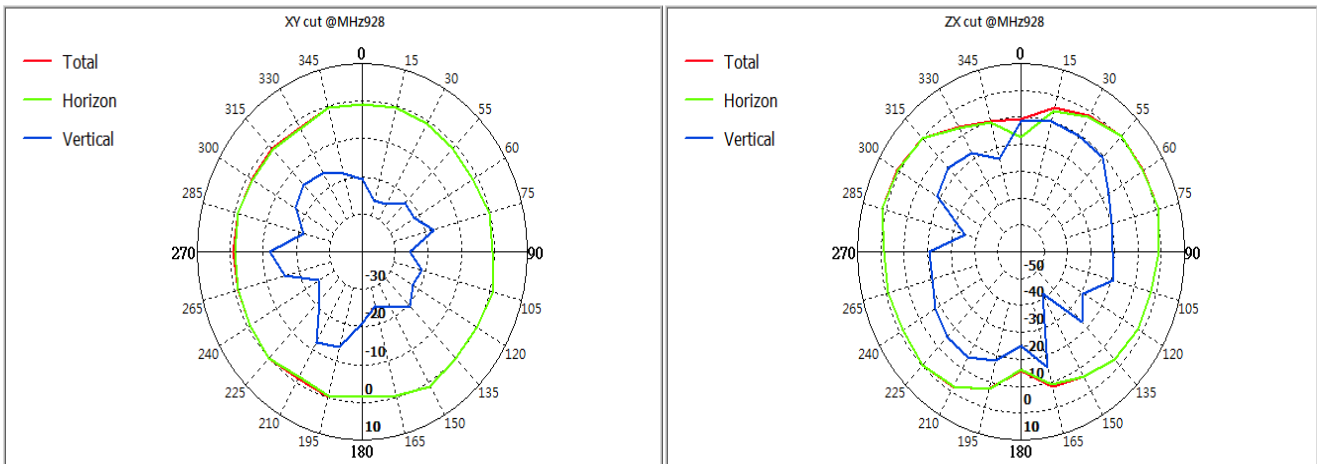


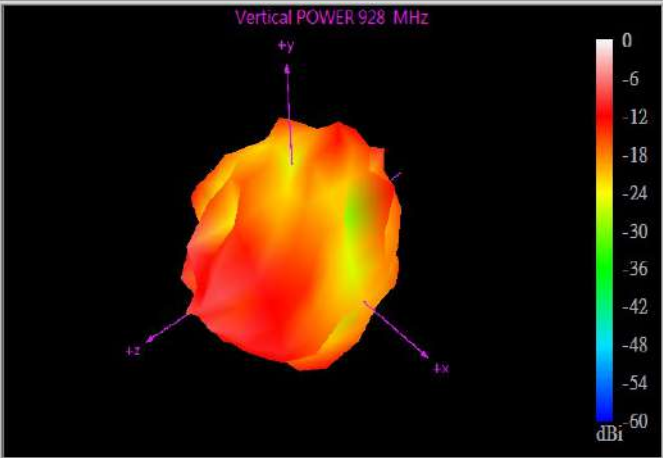
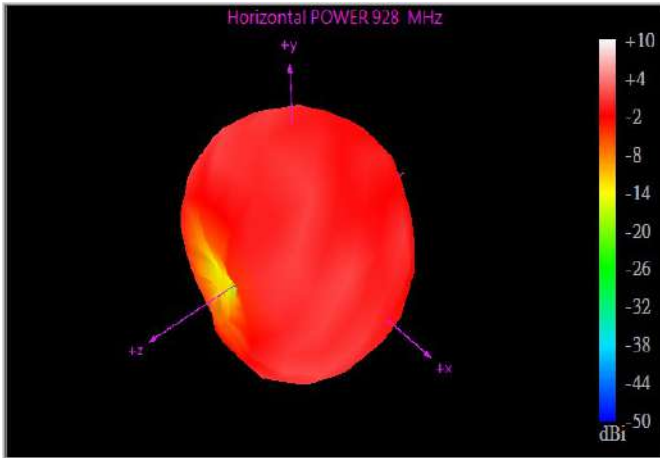
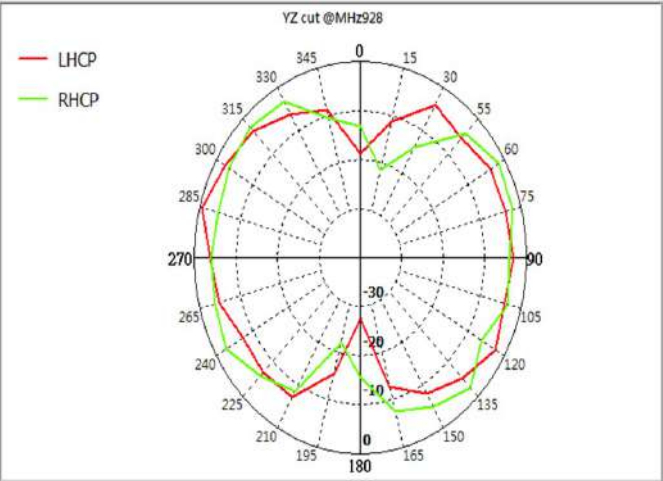
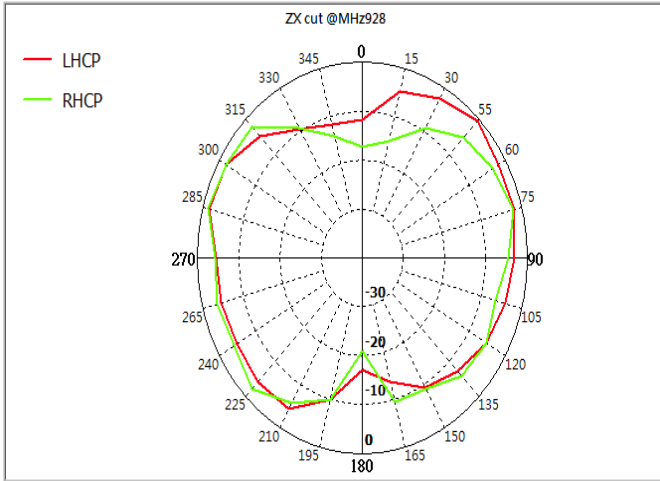
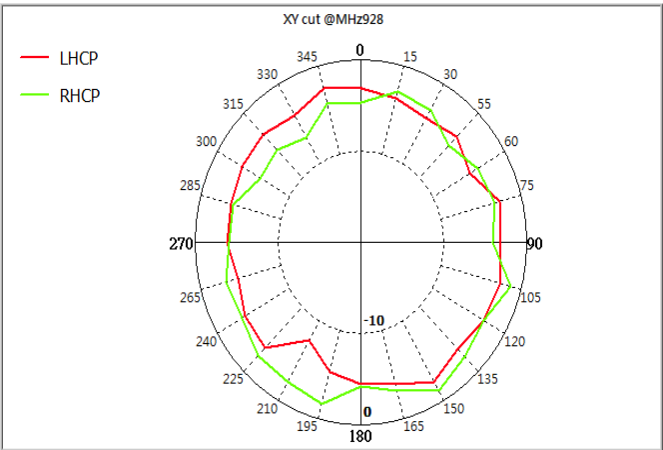
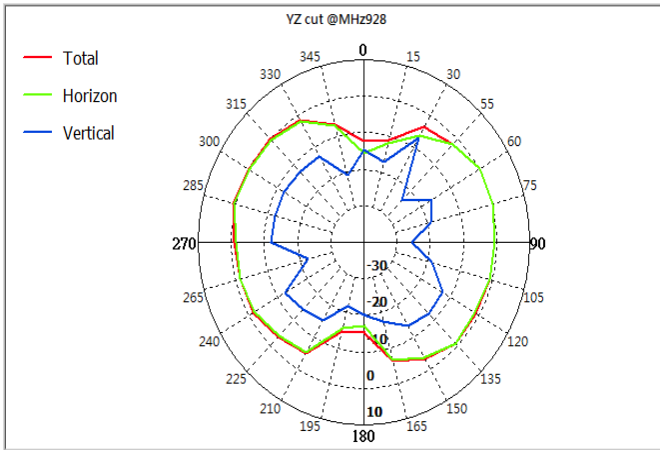
915MHz:

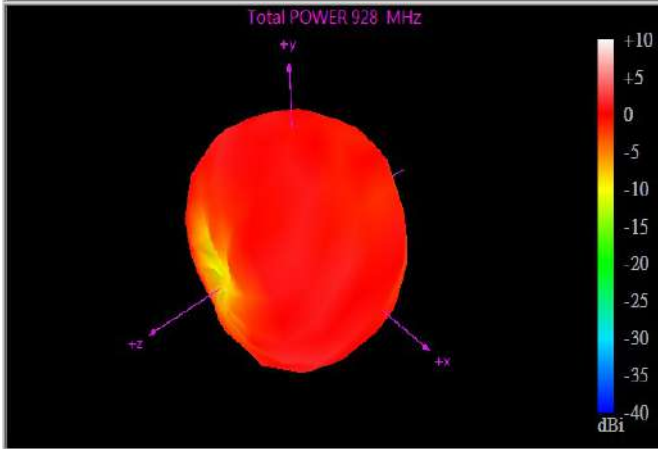
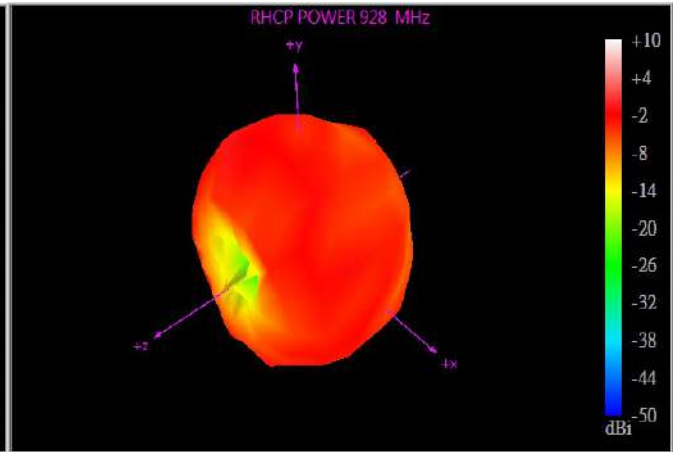
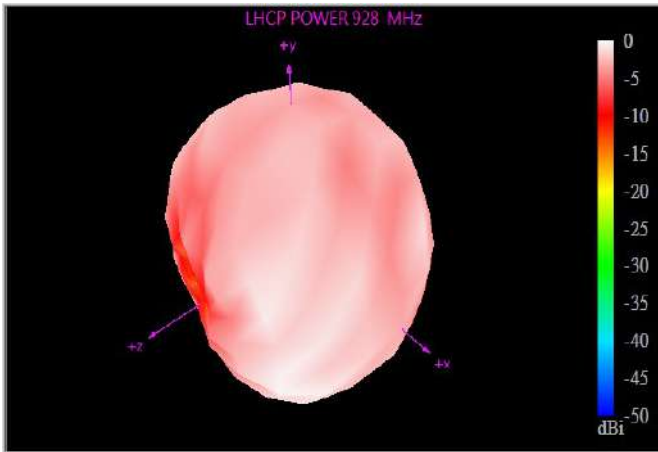




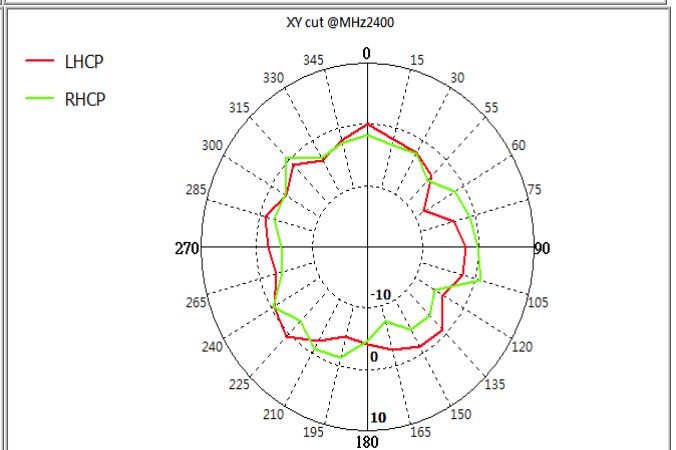
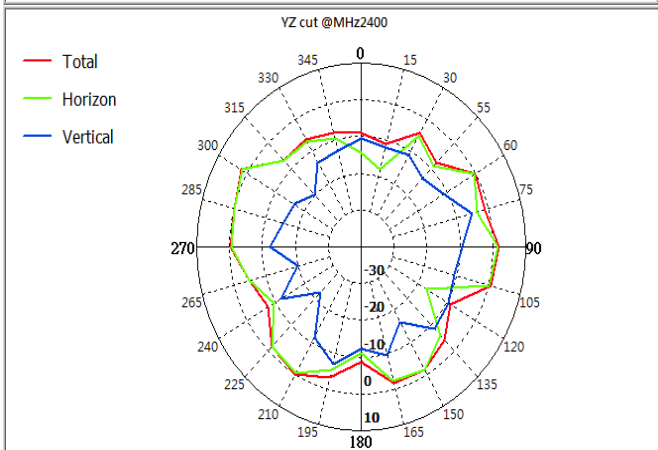
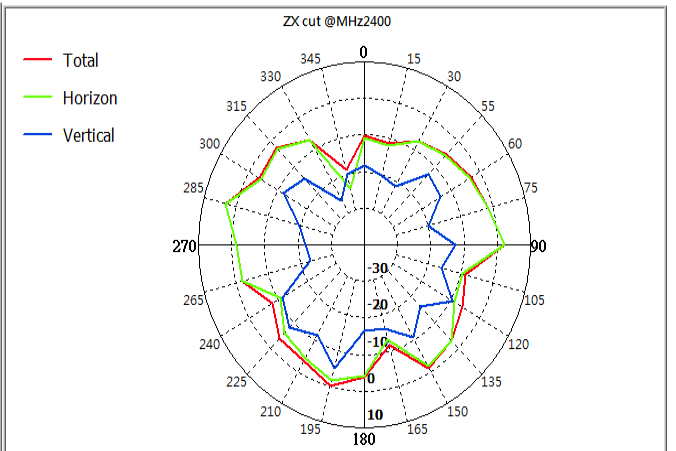
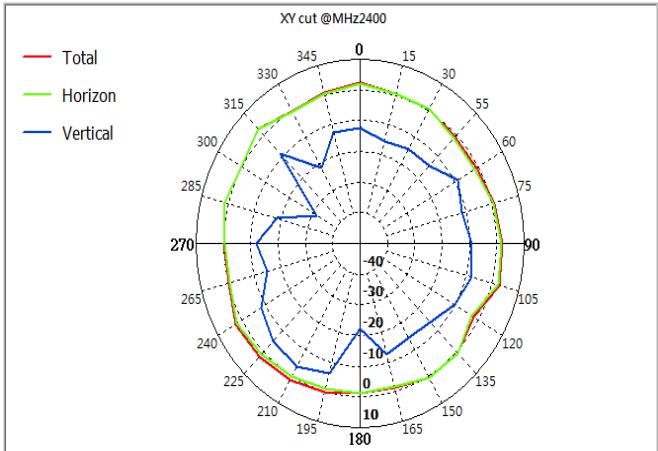
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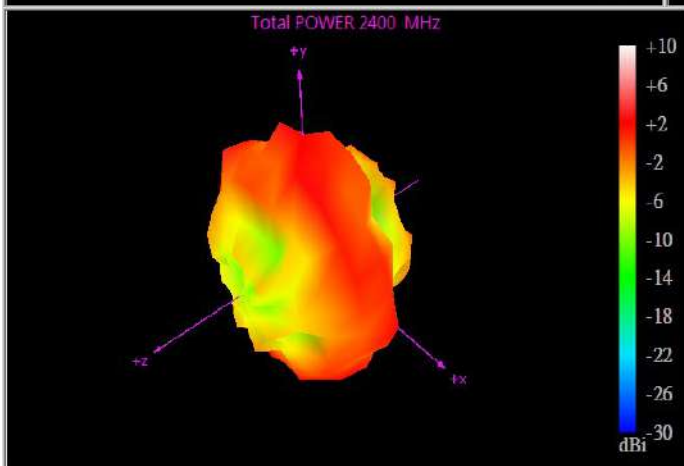
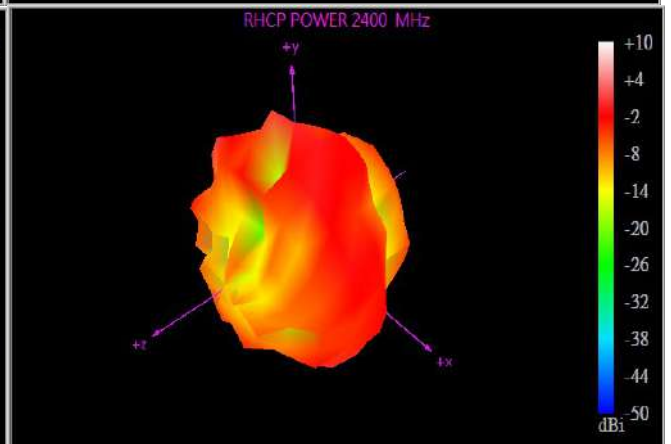
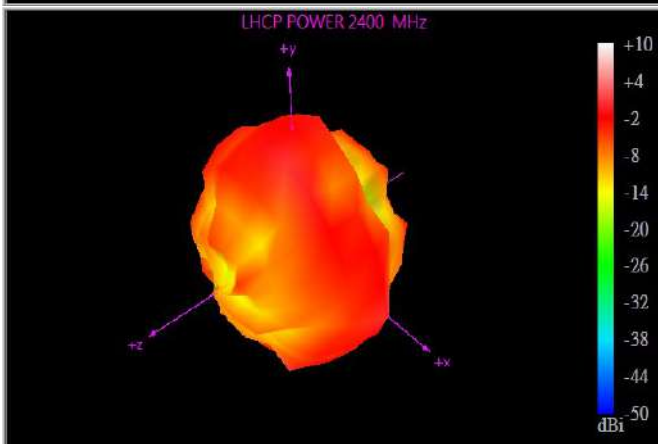
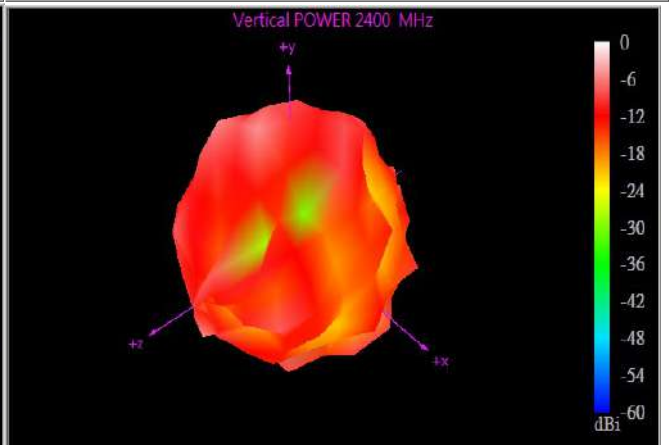
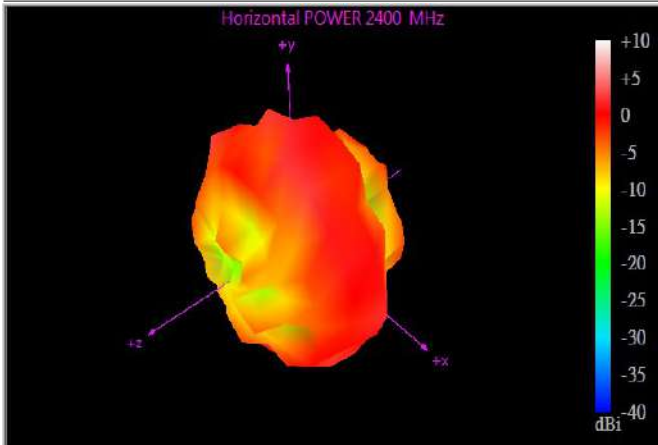
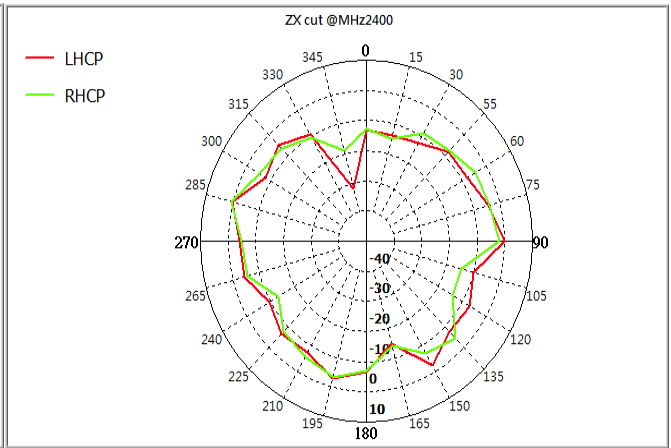
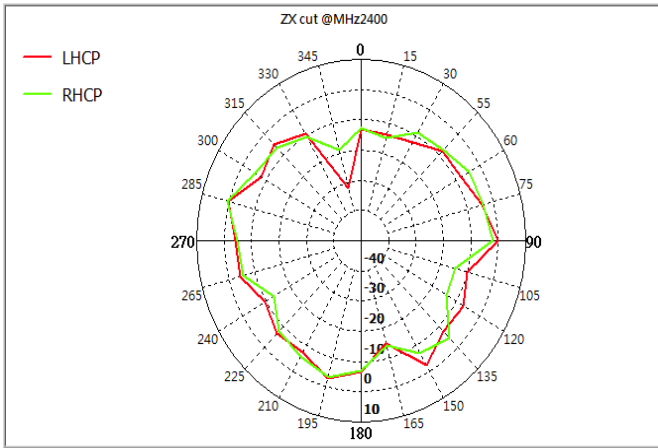




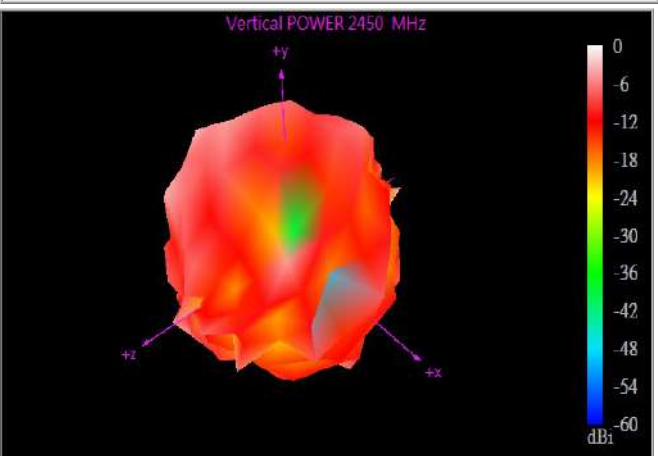
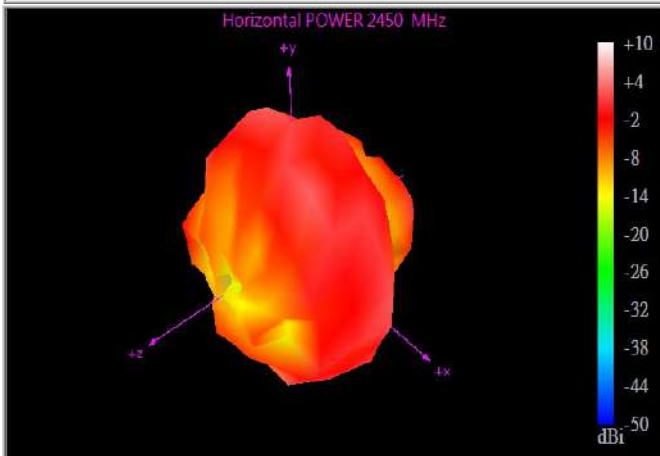
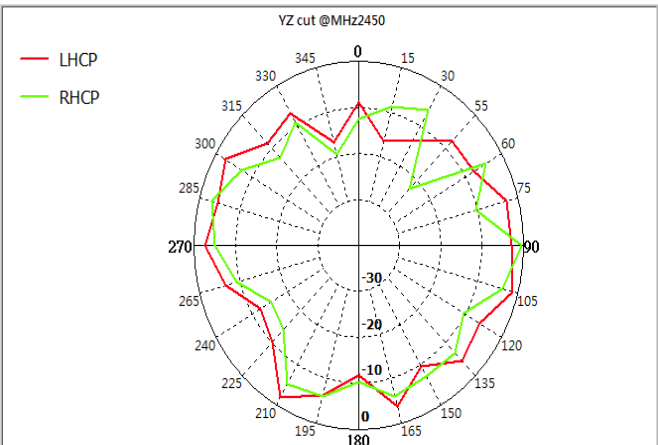
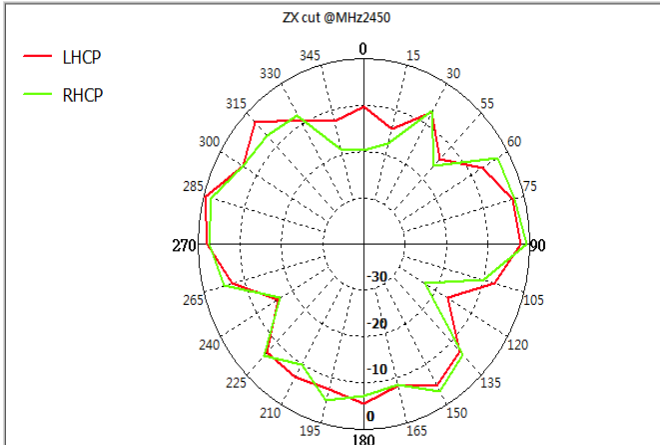
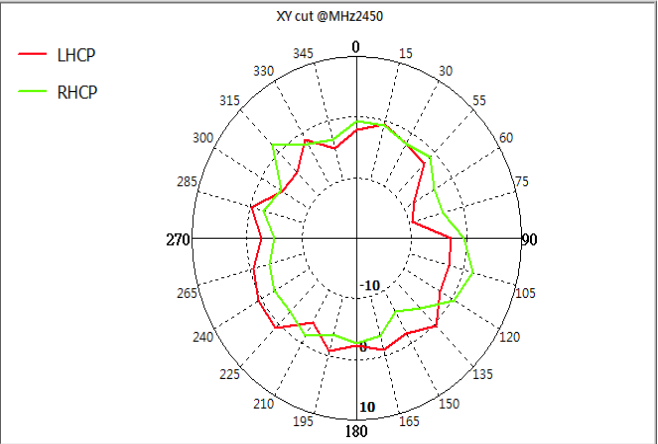
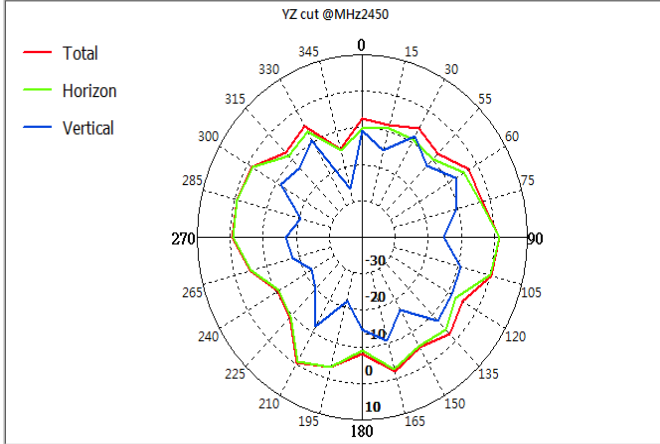
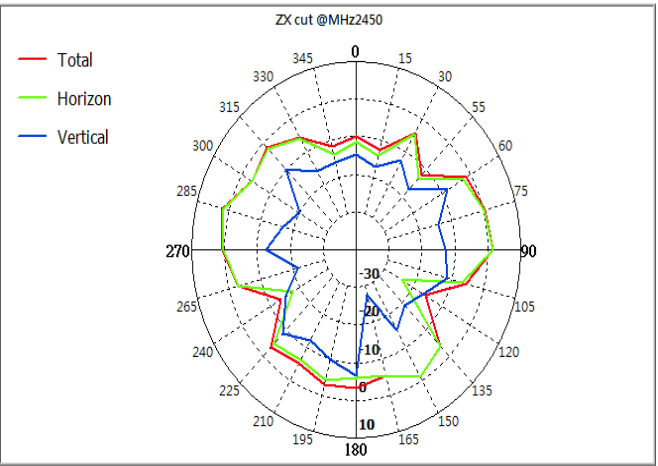
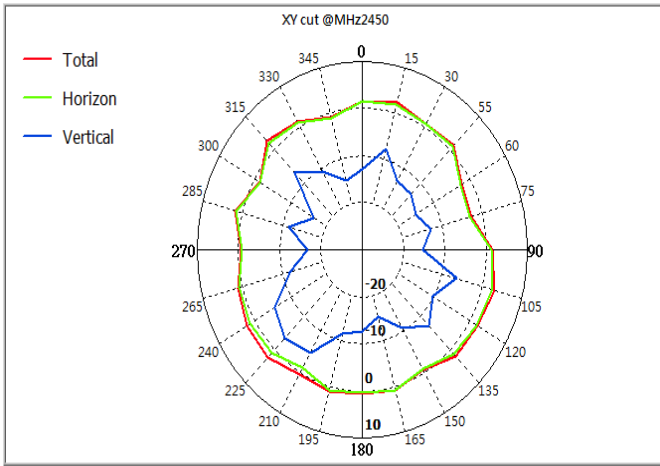


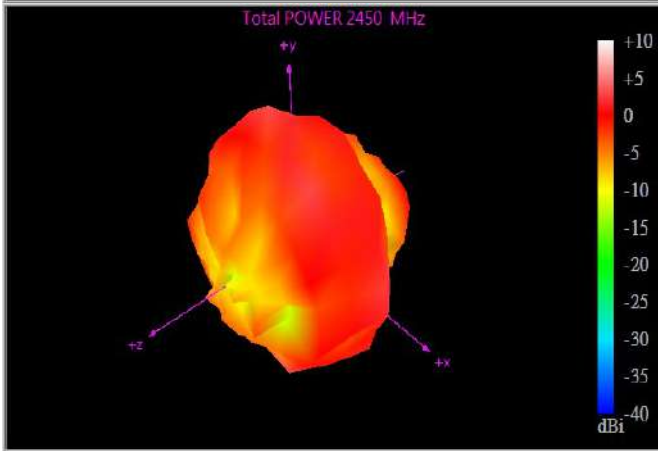
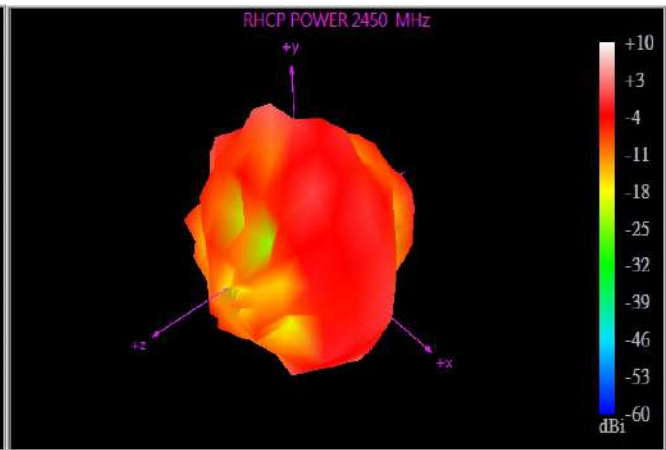
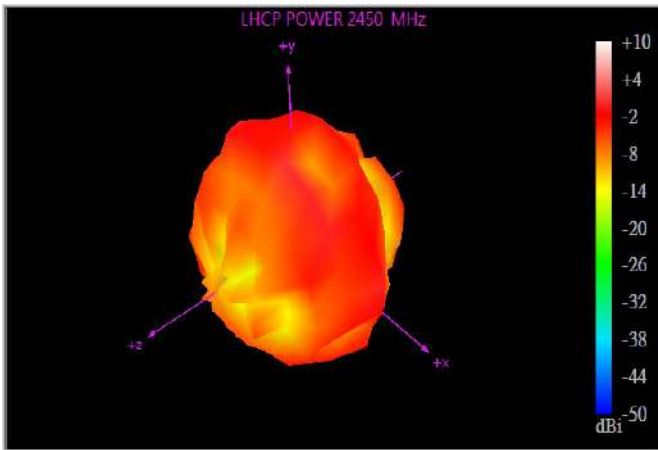
2.4Ghz:





2.45Ghz:





2.5Ghz:

