

L Band & 2.4G & S Band Antenna

MODEL: TH-1230



1. GENERAL DESCRIPTION

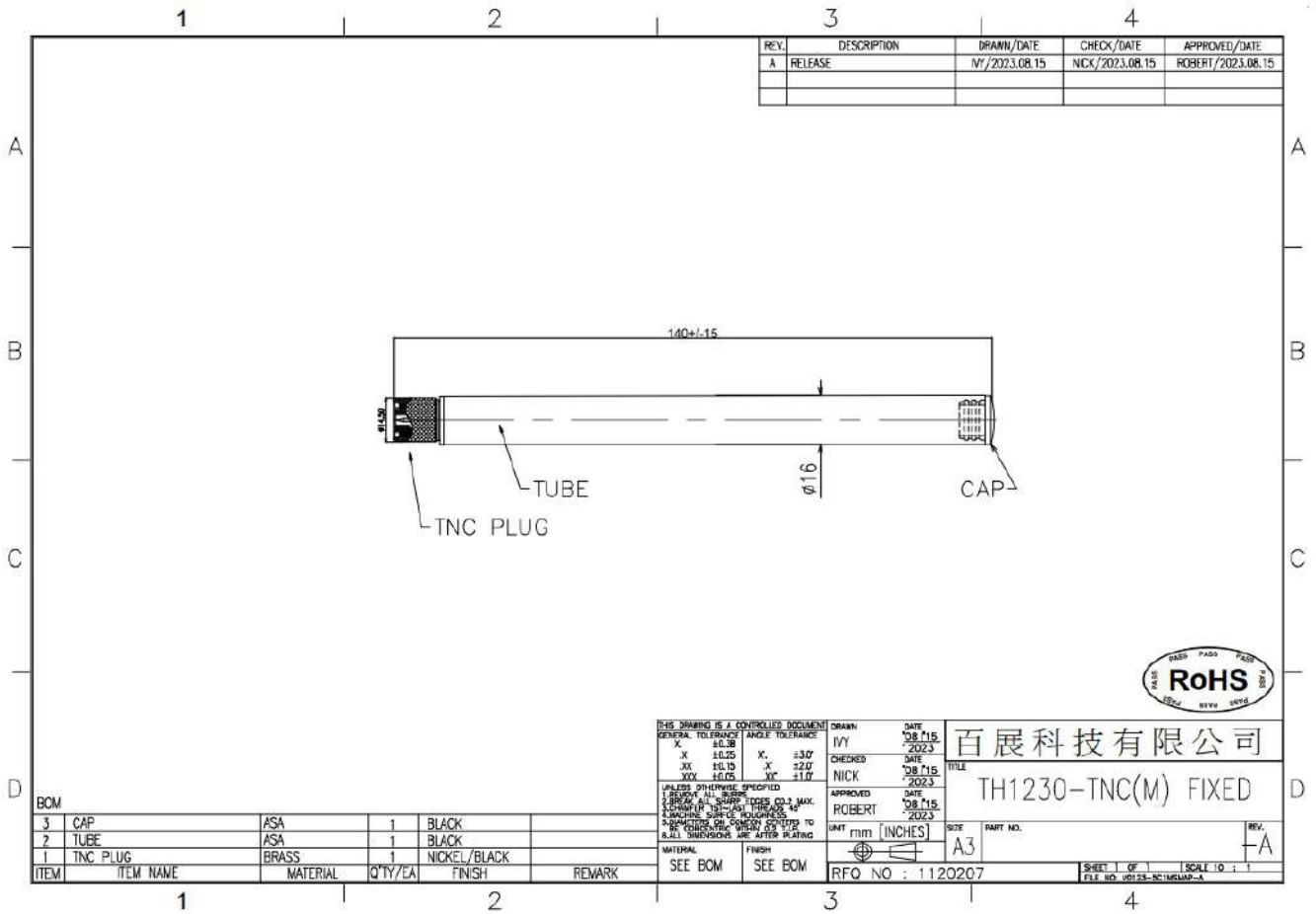
| Model No |
|---------------------|
| TH1230-TNC(M) FIXED |

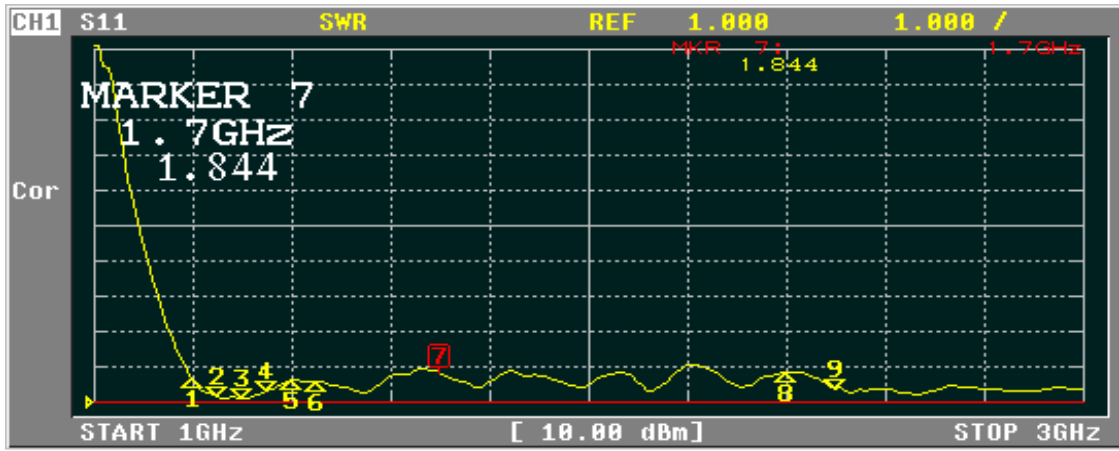
1.1 Electrical Properties

| Parameter | Description |
|-------------------|--------------|
| Frequency Band | 1200~3000Mhz |
| Nominal Impedance | 50 ohm |
| Polarization | Vertical |
| V.S.W.R | 2.5:1 |

1.2 Mechanical Properties

| Parameter | Description |
|-----------------------------|----------------------------|
| Antenna Type | External Antenna |
| Material | ASA |
| Touch Type | Screw Type |
| Connector Type | TNC connector (Male) FIXED |
| Antenna Dimensions | Ø16 x 140mm ±15 |
| Antenna Color | Black |
| Operating Temperature Range | -40°C~+85°C |
| Storage Temperature Range | -40°C~+85°C |





CH1 MARKER LIST

| | | |
|-----|--------------|-------|
| 1: | 1.200 000GHz | 1.660 |
| 2: | 1.250 000GHz | 1.131 |
| 3: | 1.300 000GHz | 1.094 |
| 4: | 1.350 000GHz | 1.325 |
| 5: | 1.400 000GHz | 1.619 |
| 6: | 1.450 000GHz | 1.593 |
| 7: | 1.700 000GHz | 1.844 |
| 8: | 2.400 000GHz | 1.866 |
| 9: | 2.500 000GHz | 1.383 |
| 10: | | |

Return

BITMAP FILE

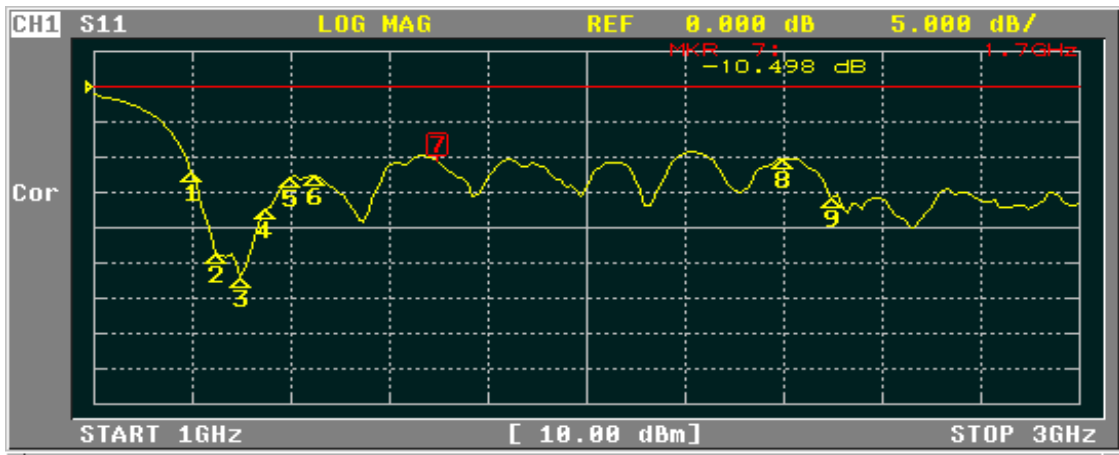
SAVE TO DISK

COMPRESSION

ON OFF

TRUNCATE

ON OFF



CH1 MARKER LIST

| | | |
|-----|--------------|------------|
| 1: | 1.200 000GHz | -12.071 dB |
| 2: | 1.250 000GHz | -23.651 dB |
| 3: | 1.300 000GHz | -27.209 dB |
| 4: | 1.350 000GHz | -17.427 dB |
| 5: | 1.400 000GHz | -12.828 dB |
| 6: | 1.450 000GHz | -12.762 dB |
| 7: | 1.700 000GHz | -10.498 dB |
| 8: | 2.400 000GHz | -10.244 dB |
| 9: | 2.500 000GHz | -15.808 dB |
| 10: | | |

More 1/2

FORMAT

LOG MAG

PHASE

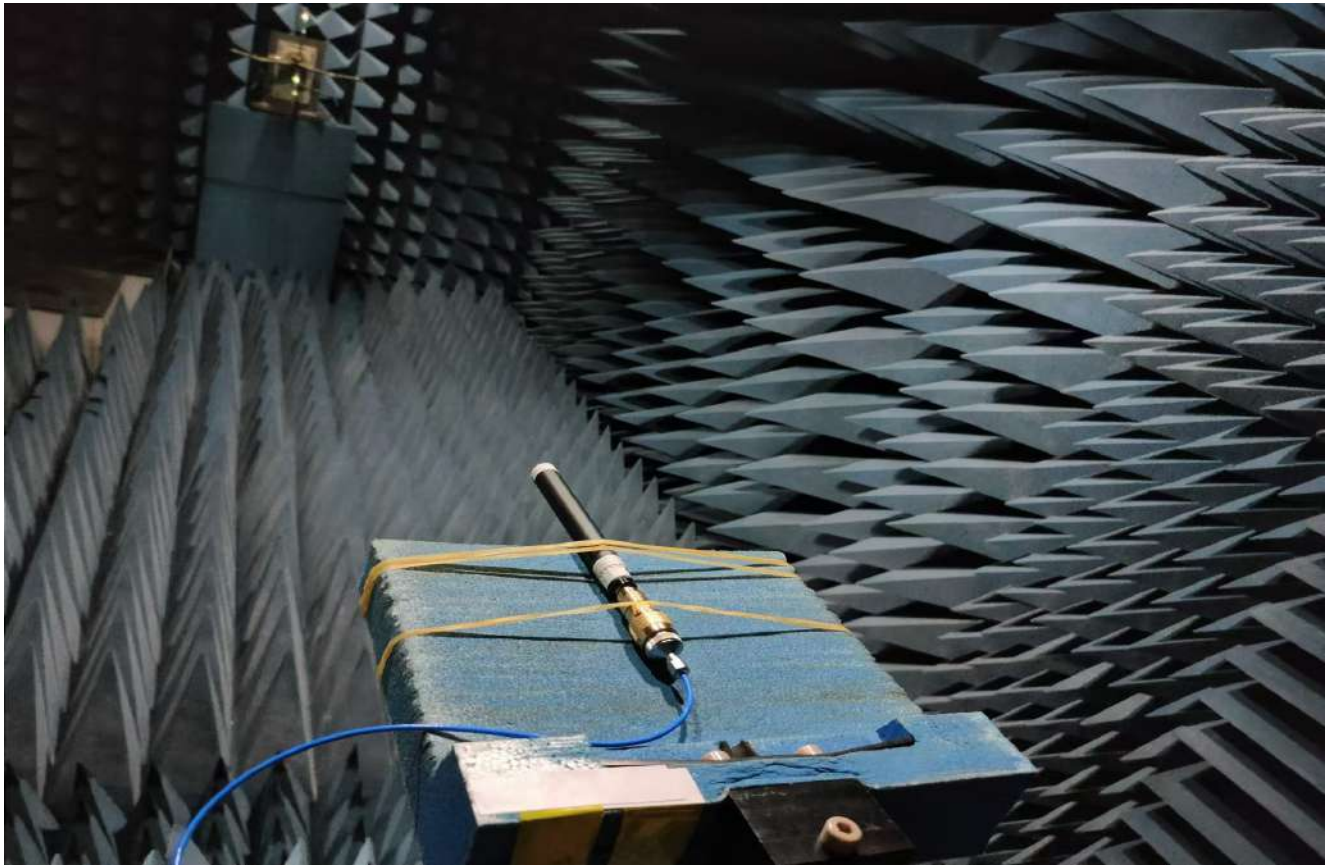
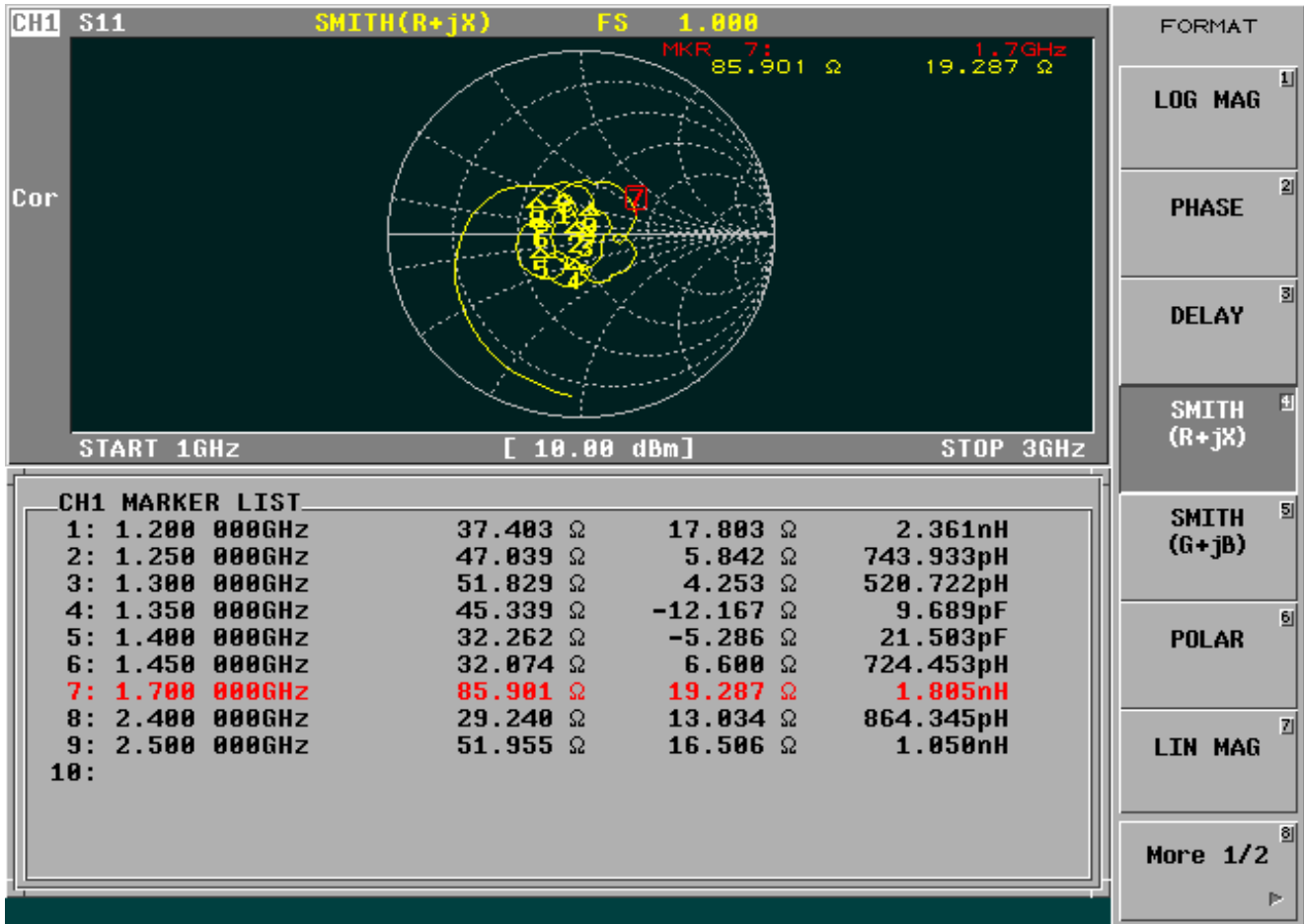
DELAY

SMITH (R+jX)

SMITH (G+jB)

POLAR

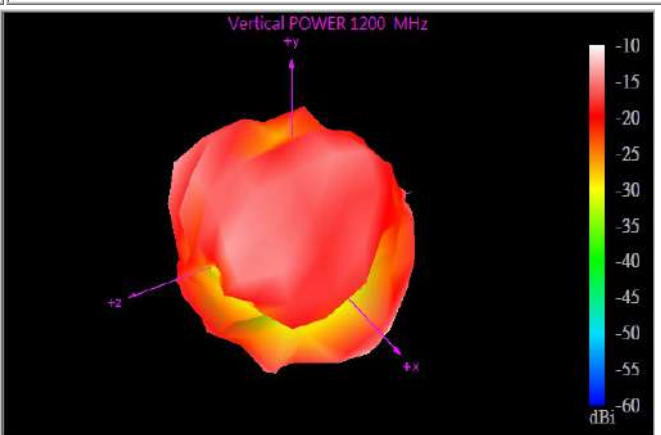
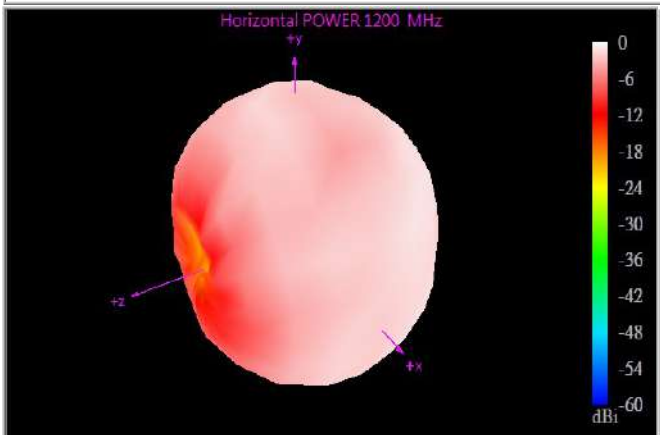
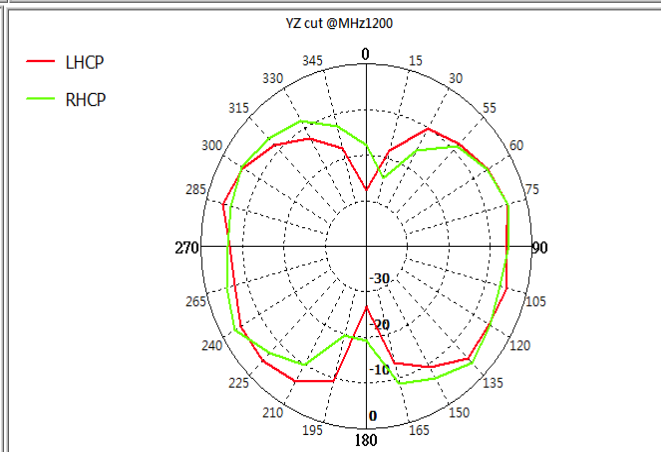
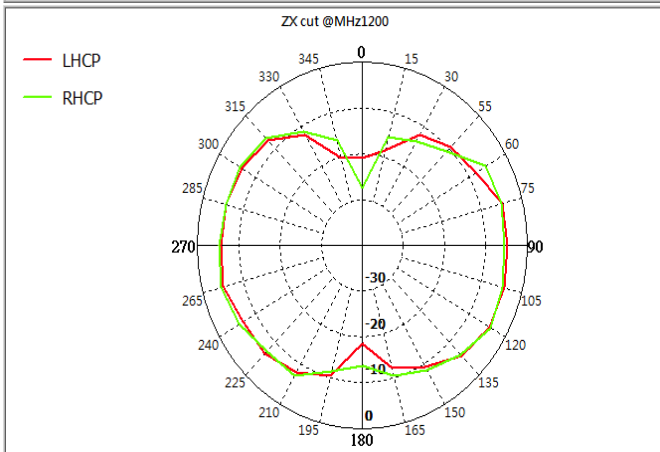
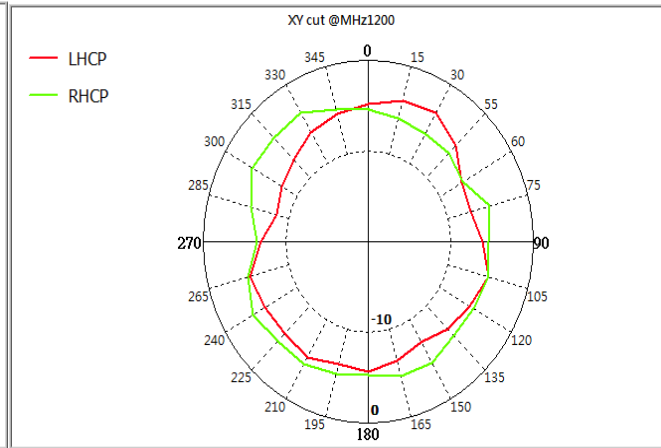
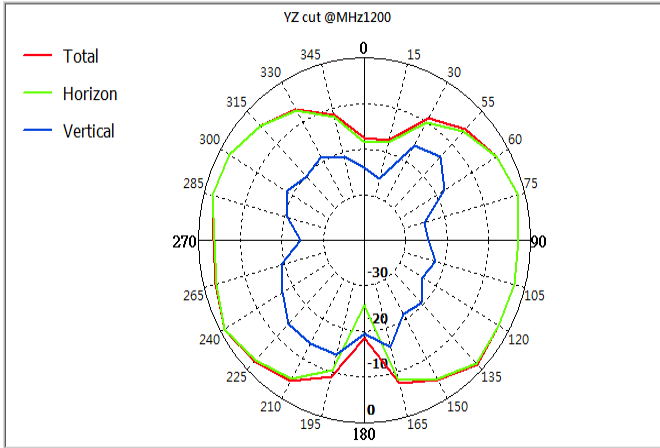
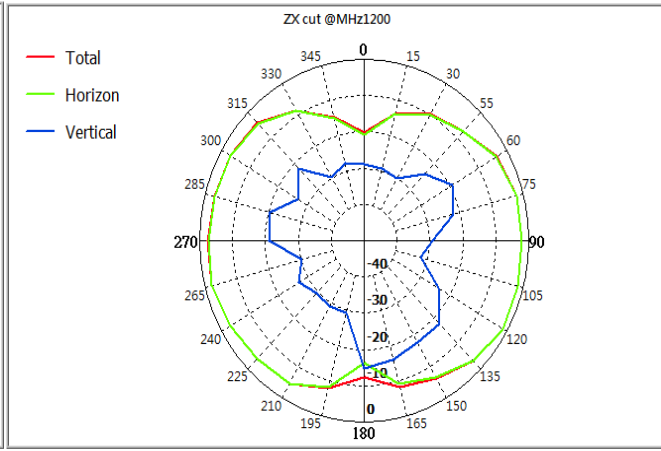
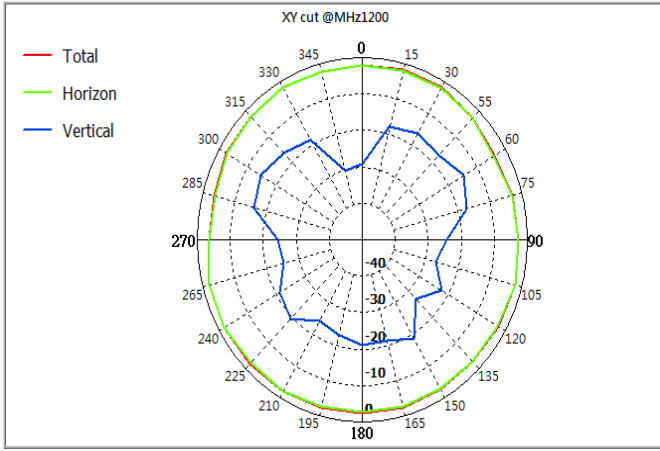
LIN MAG

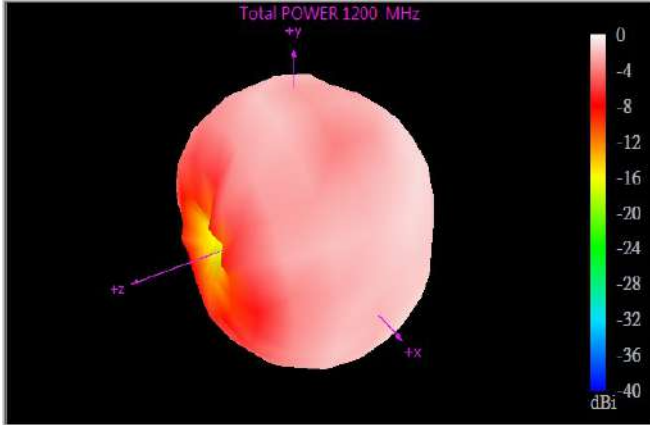
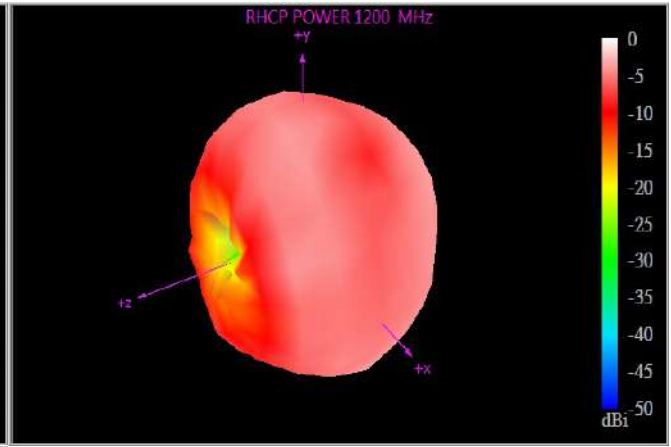
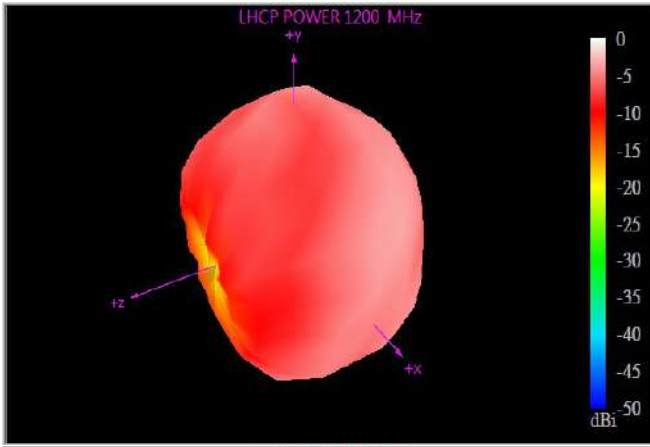


3D Total

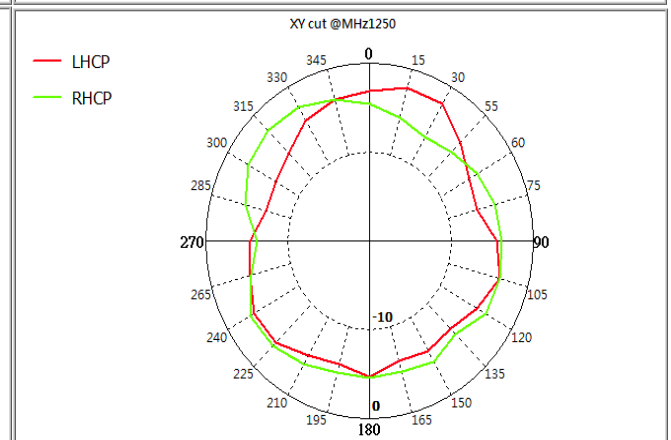
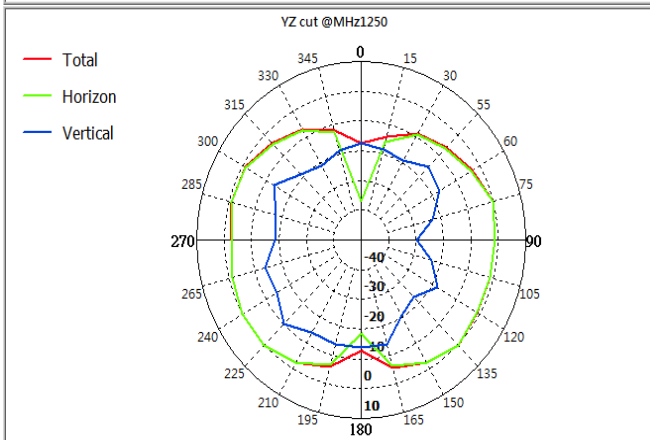
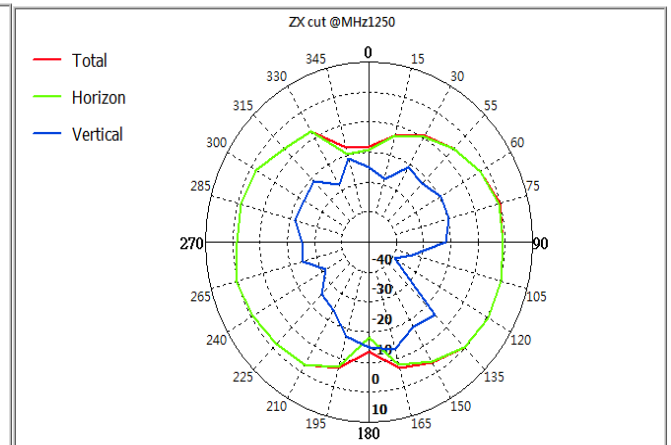
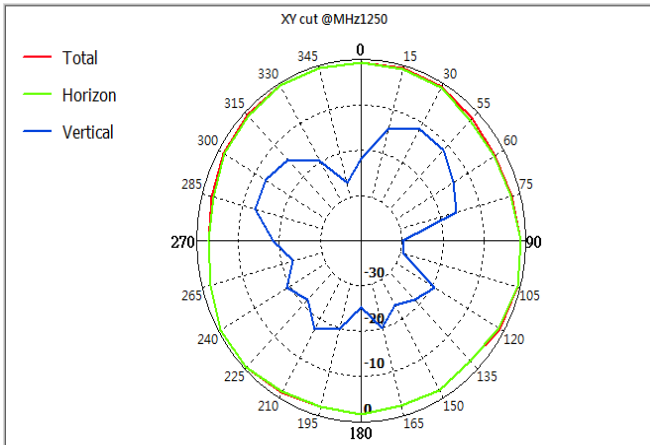
| Frequency (MHz) | Upper Hem. PRP (dBm) | Lower HEM. PRP (dBm) | Efficiency (dB) | Efficiency (%) | Gain (dBi) | Tot. Rad.Pwr. (dBm) |
|-----------------|----------------------|----------------------|-----------------|----------------|------------|---------------------|
| 1200 MHz | -7.18 | -6.00 | -3.54 | 44.26 | -0.64 | -3.54 |
| 1250 MHz | -6.31 | -4.25 | -2.15 | 60.98 | 1.20 | -2.15 |
| 1300 MHz | -7.51 | -3.87 | -2.31 | 58.73 | 1.87 | -2.31 |
| 1350 MHz | -7.50 | -3.41 | -1.98 | 63.41 | 3.03 | -1.98 |
| 1400 MHz | -6.68 | -3.72 | -1.94 | 63.91 | 2.71 | -1.94 |
| 1450 MHz | -6.69 | -4.70 | -2.57 | 55.32 | 2.63 | -2.57 |
| 1500 MHz | -7.12 | -4.80 | -2.80 | 52.52 | 2.50 | -2.80 |
| 1550 MHz | -7.02 | -4.62 | -2.65 | 54.38 | 2.91 | -2.65 |
| 1600 MHz | -7.13 | -4.70 | -2.74 | 53.25 | 2.62 | -2.74 |
| 1610 MHz | -7.23 | -4.93 | -2.92 | 51.05 | 2.31 | -2.92 |
| 1620 MHz | -7.30 | -5.03 | -3.01 | 50.02 | 2.08 | -3.01 |
| 1630 MHz | -7.10 | -4.91 | -2.86 | 51.75 | 2.34 | -2.86 |
| 1650 MHz | -6.72 | -4.57 | -2.50 | 56.22 | 2.69 | -2.50 |
| 1700 MHz | -7.26 | -4.74 | -2.81 | 52.38 | 2.18 | -2.81 |
| 2000 MHz | -8.53 | -4.20 | -2.84 | 52.03 | 3.38 | -2.84 |
| 2100 MHz | -7.97 | -4.13 | -2.63 | 54.59 | 3.57 | -2.63 |
| 2150 MHz | -8.11 | -4.07 | -2.63 | 54.59 | 3.60 | -2.63 |
| 2200 MHz | -8.28 | -4.39 | -2.90 | 51.27 | 3.63 | -2.90 |
| 2250 MHz | -8.26 | -5.04 | -3.35 | 46.26 | 3.43 | -3.35 |
| 2300 MHz | -7.58 | -4.92 | -3.04 | 49.69 | 3.31 | -3.04 |
| 2350 MHz | -7.86 | -5.49 | -3.50 | 44.63 | 2.87 | -3.50 |
| 2400 MHz | -6.70 | -5.10 | -2.82 | 52.25 | 2.72 | -2.82 |
| 2450 MHz | -5.83 | -4.84 | -2.30 | 58.90 | 1.96 | -2.30 |
| 2500 MHz | -5.48 | -4.42 | -1.91 | 64.43 | 2.04 | -1.91 |
| 2600 MHz | -5.87 | -4.20 | -1.95 | 63.87 | 2.49 | -1.95 |
| 2700 MHz | -6.60 | -4.46 | -2.39 | 57.64 | 3.62 | -2.39 |
| 2800 MHz | -9.39 | -6.26 | -4.54 | 35.18 | 1.86 | -4.54 |
| 2900 MHz | -6.93 | -3.02 | -1.54 | 70.22 | 4.01 | -1.54 |
| 3000 MHz | -6.43 | -3.12 | -1.46 | 71.52 | 3.63 | -1.46 |

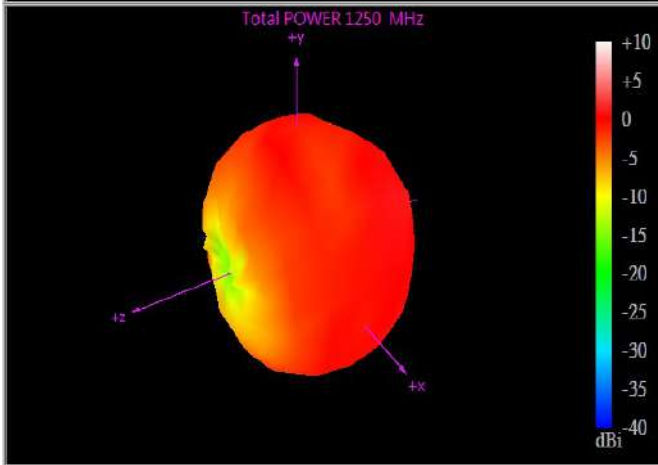
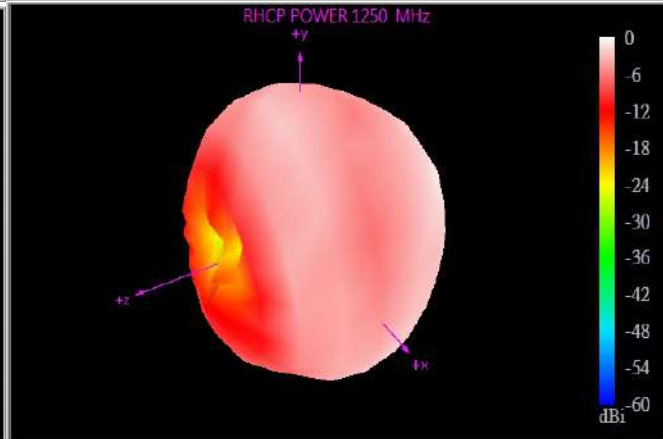
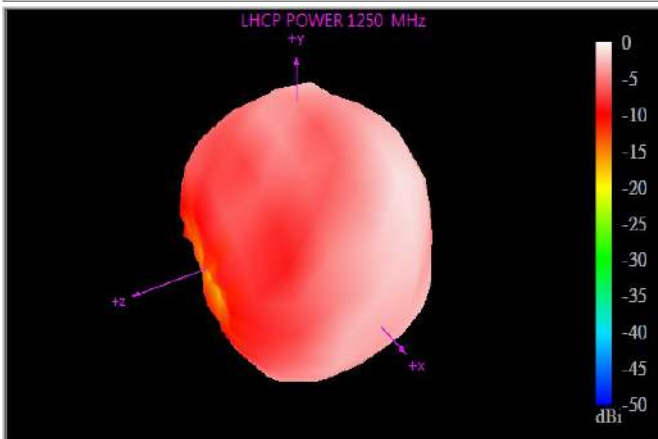
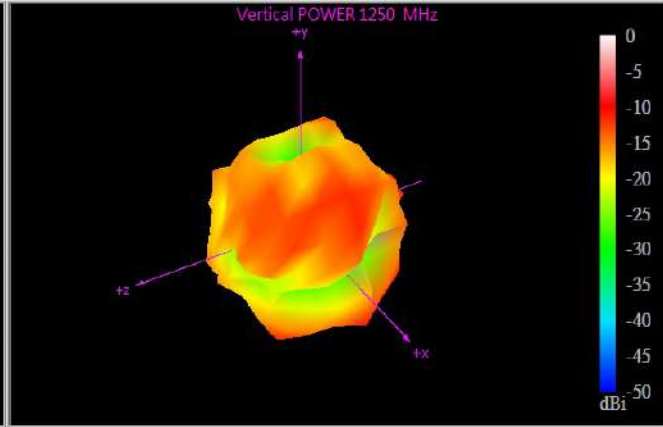
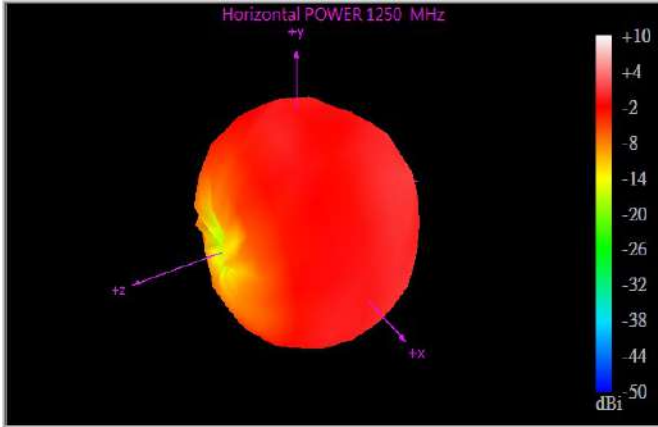
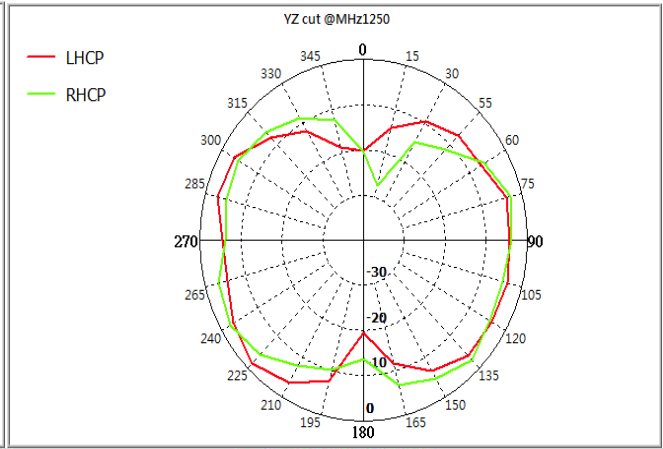
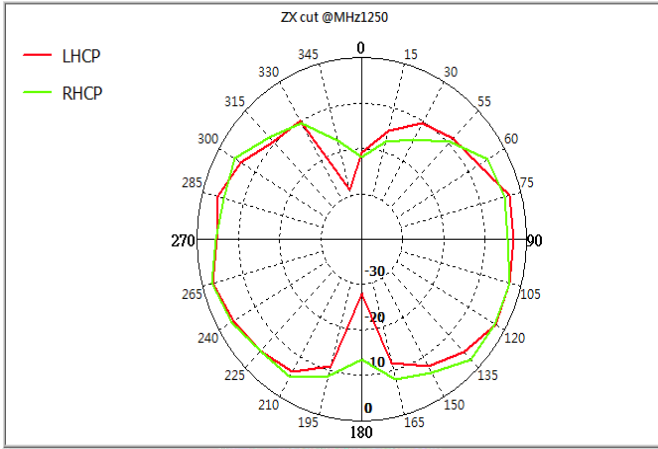
1200Mhz:



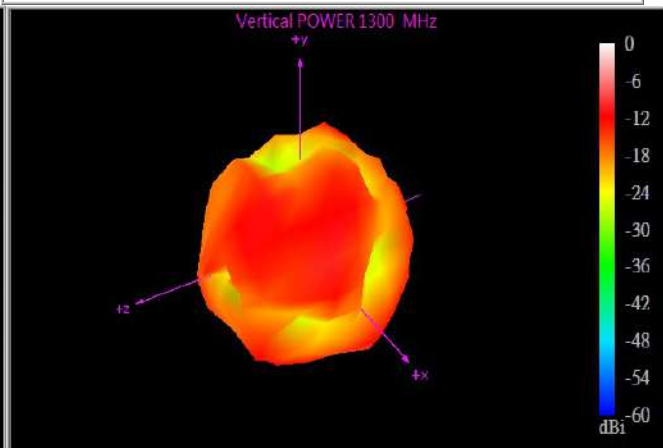
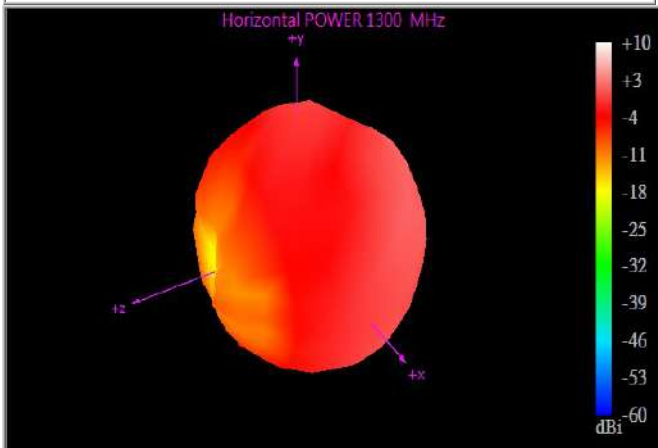
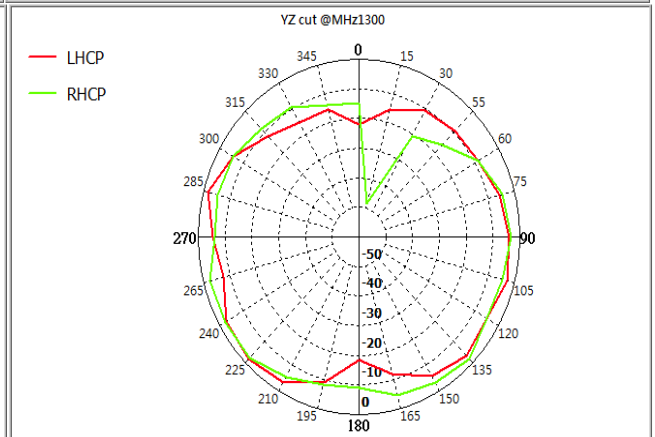
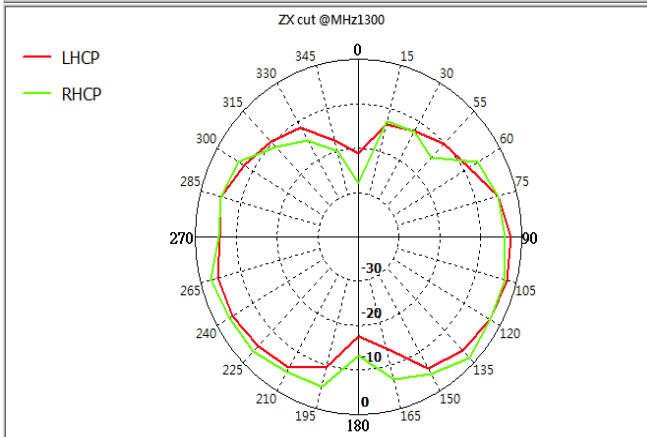
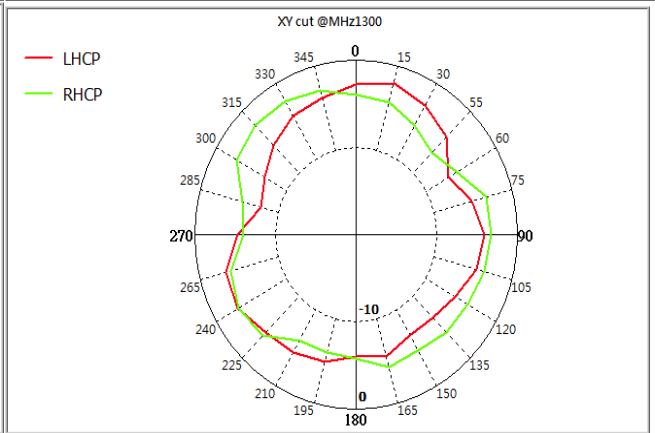
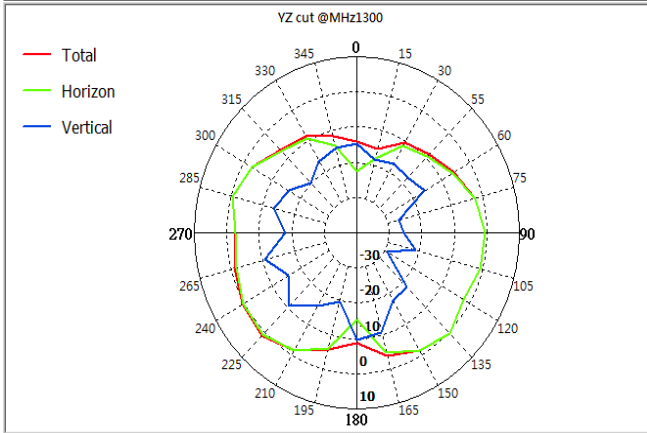
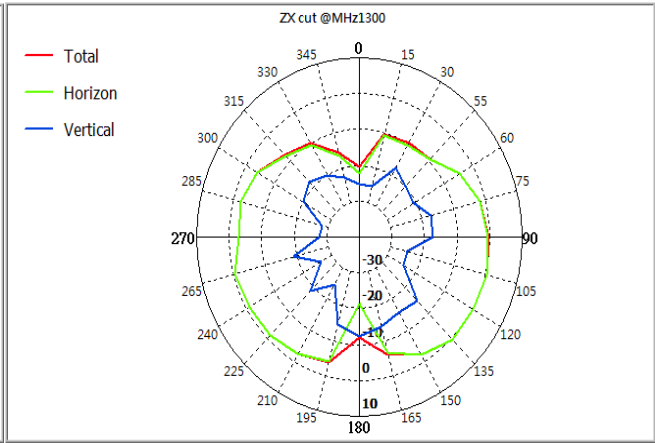
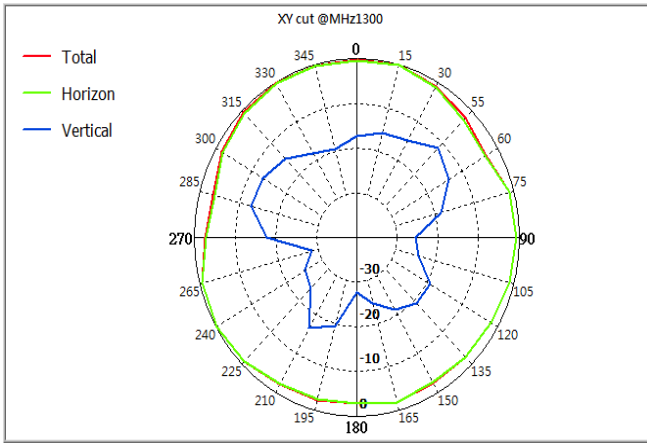


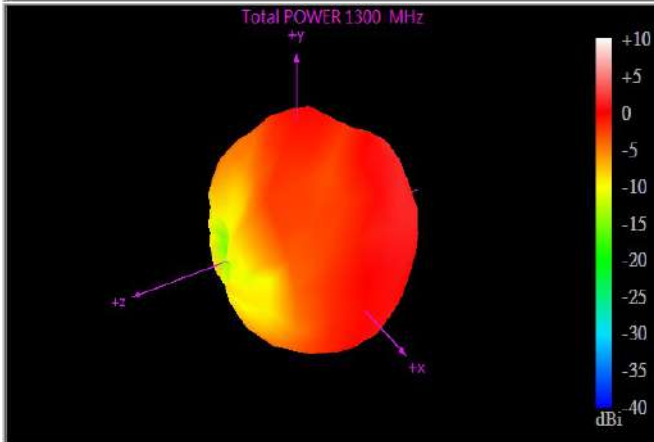
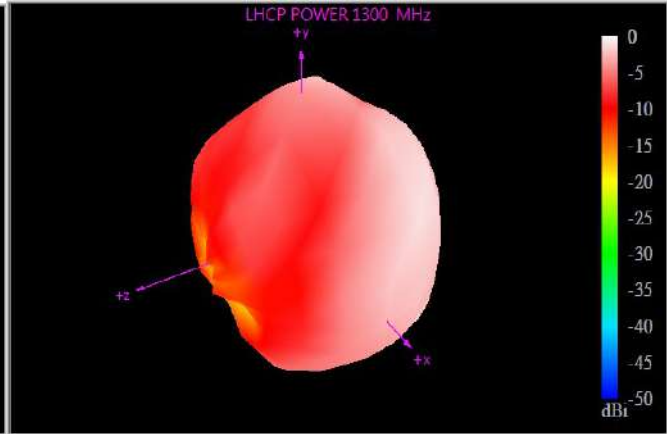
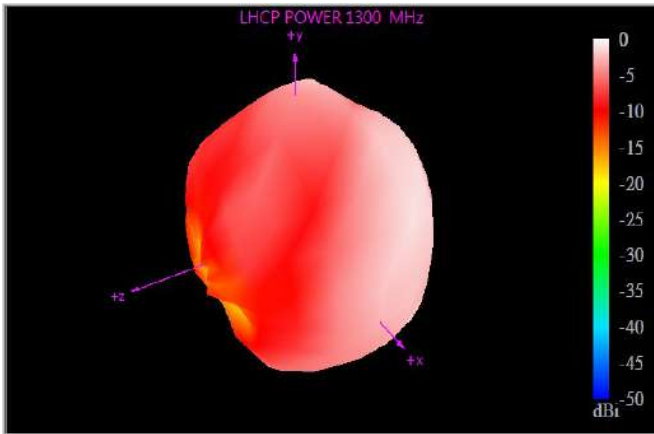
1250Mhz:



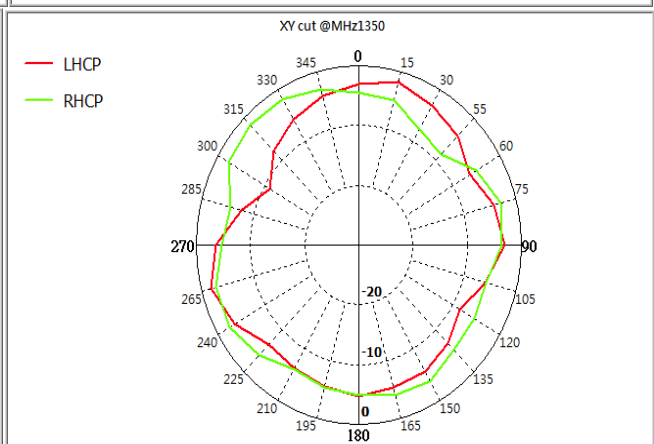
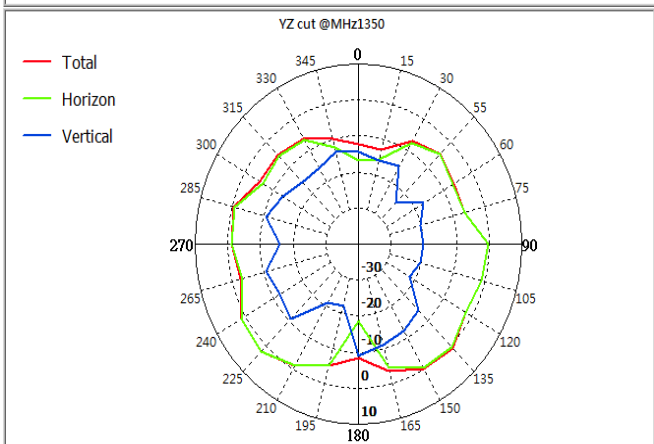
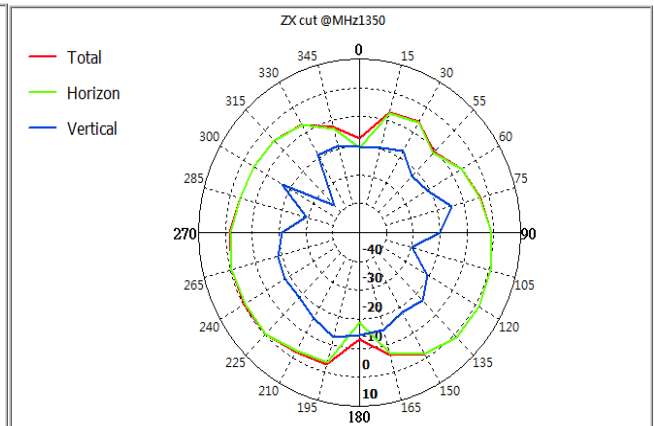
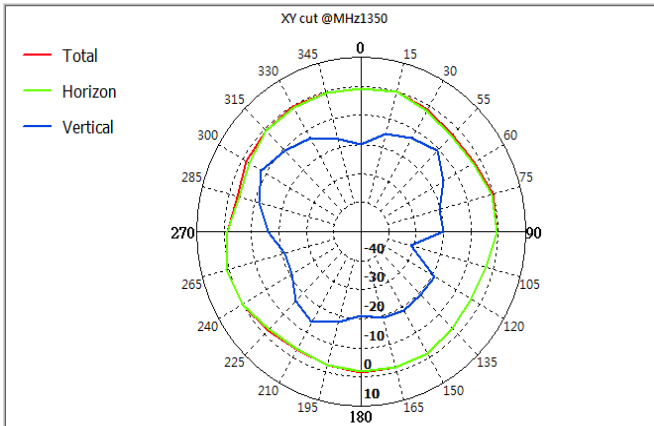


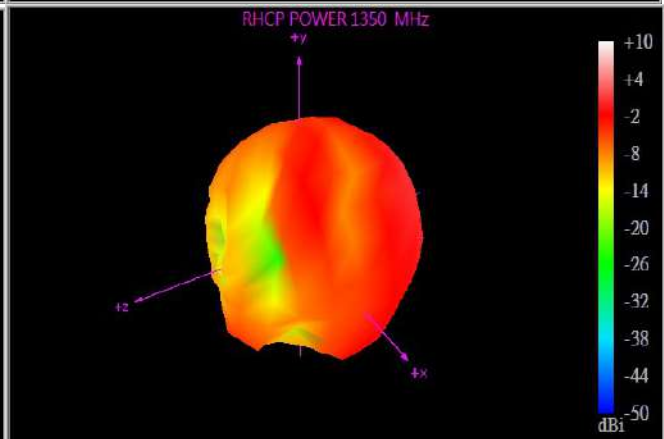
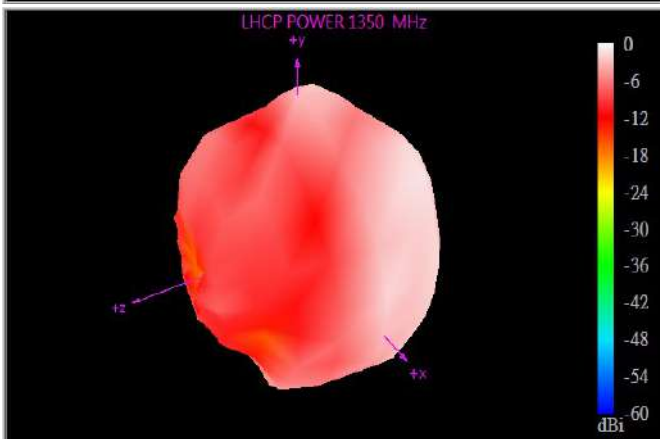
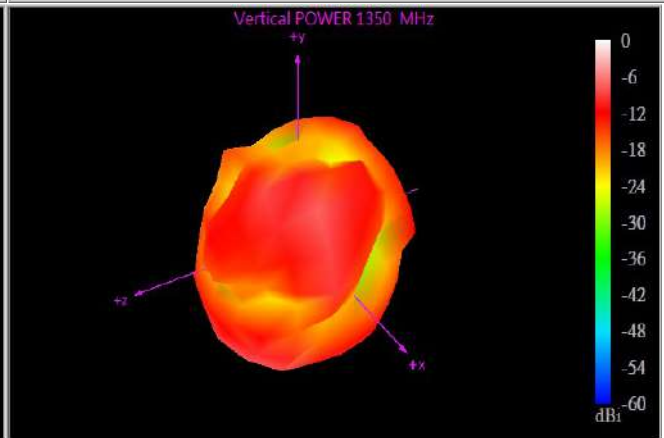
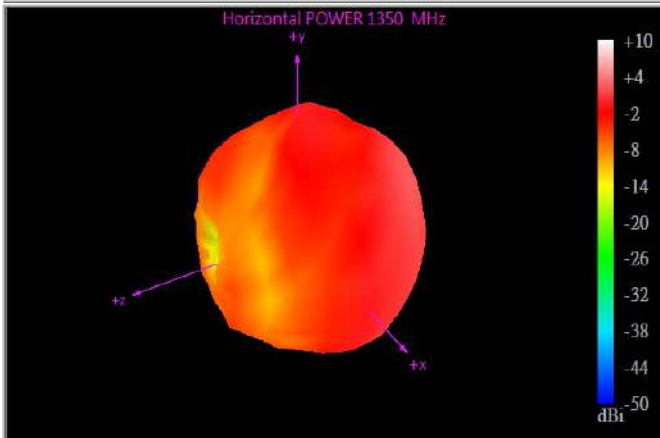
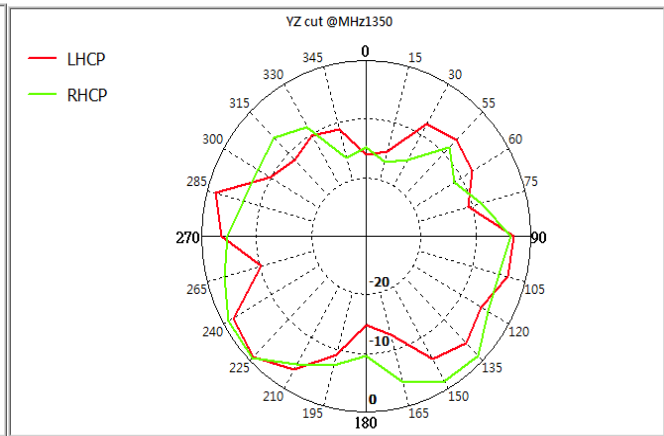
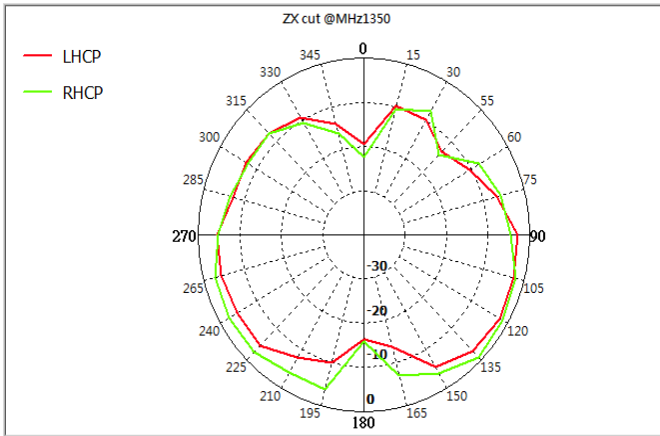
1300Mhz:



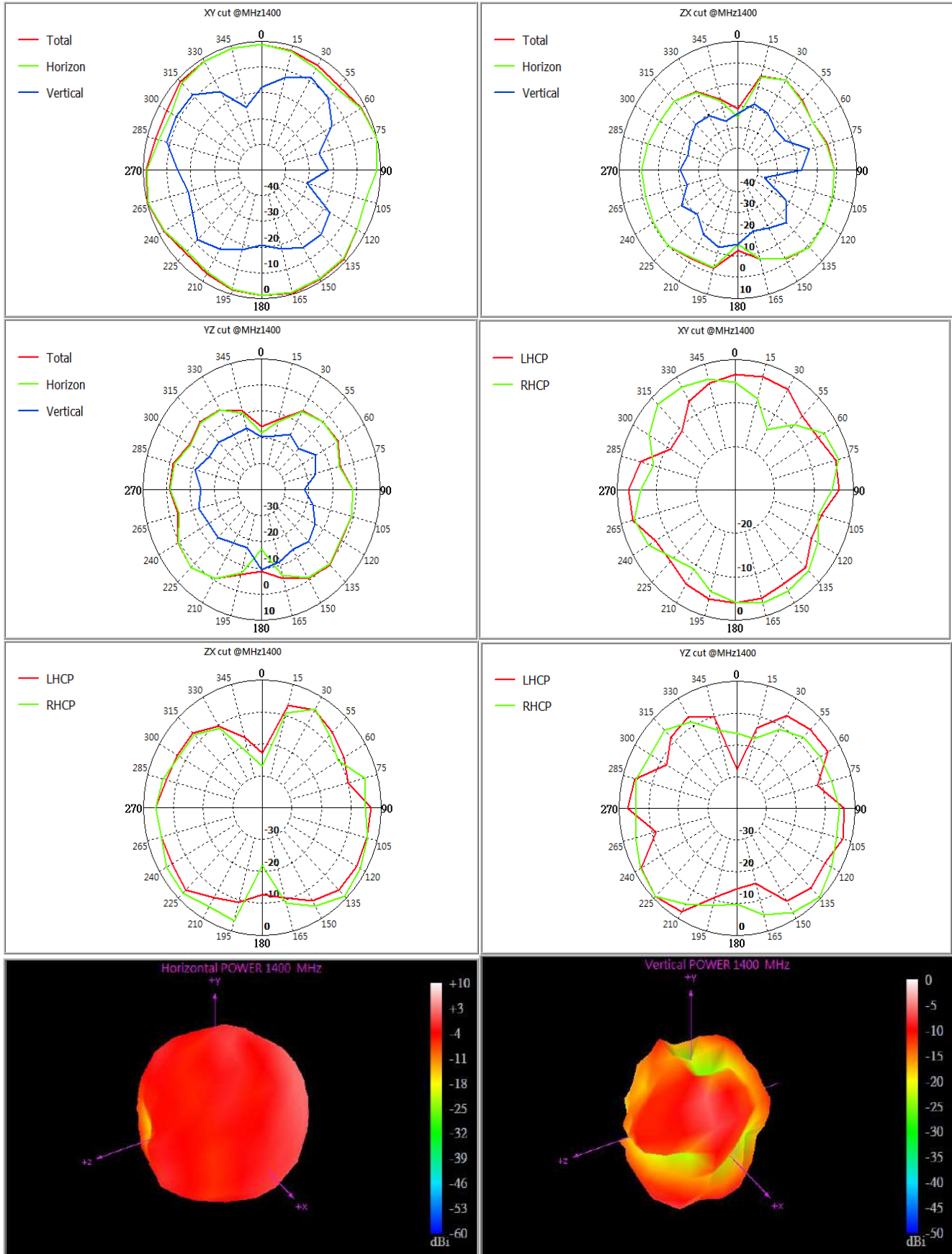


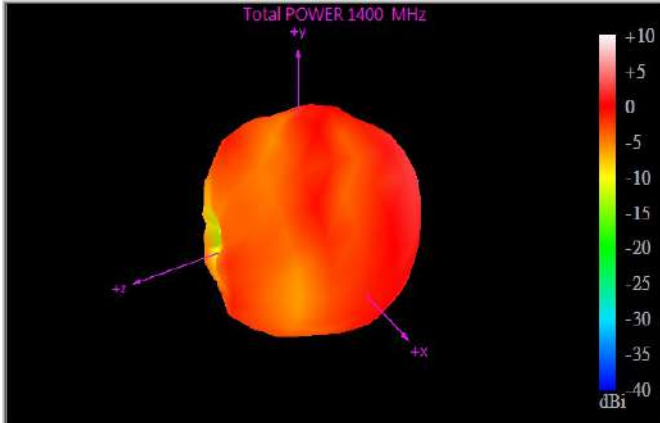
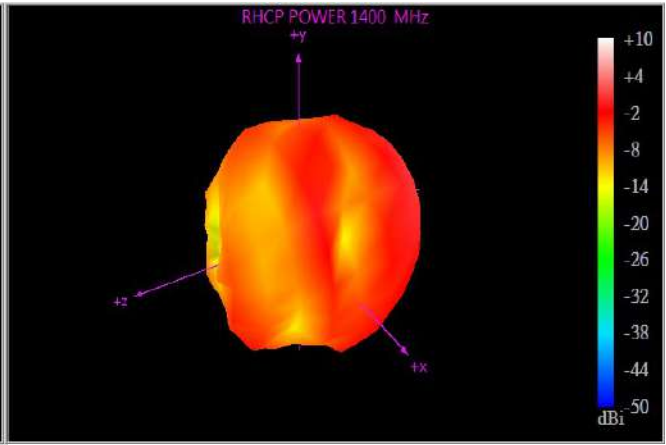
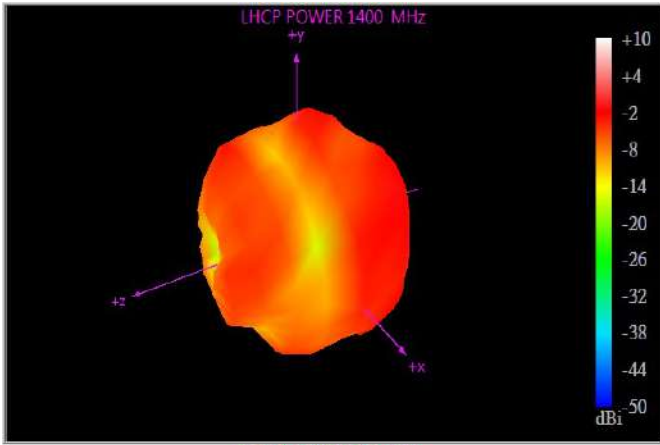
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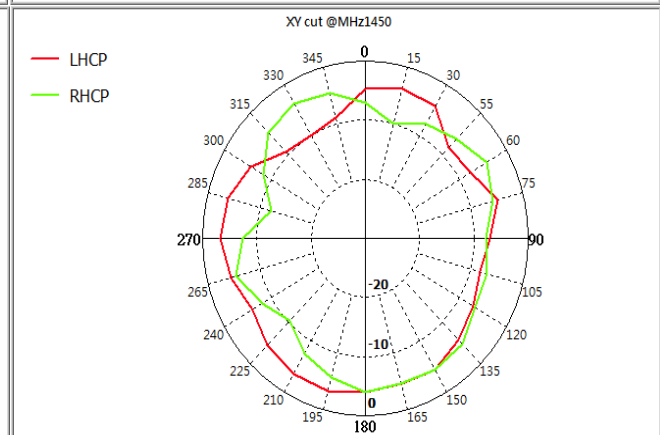
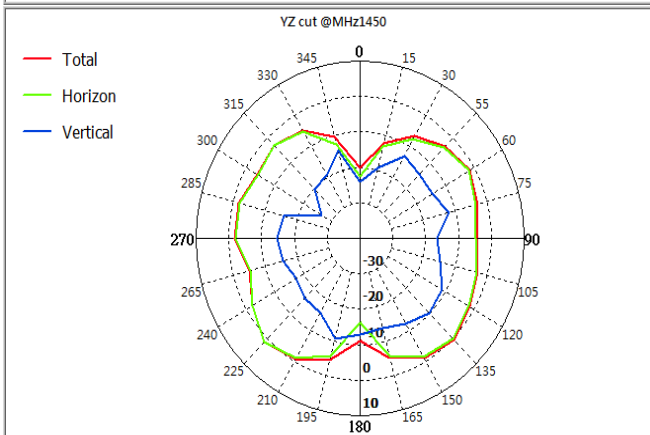
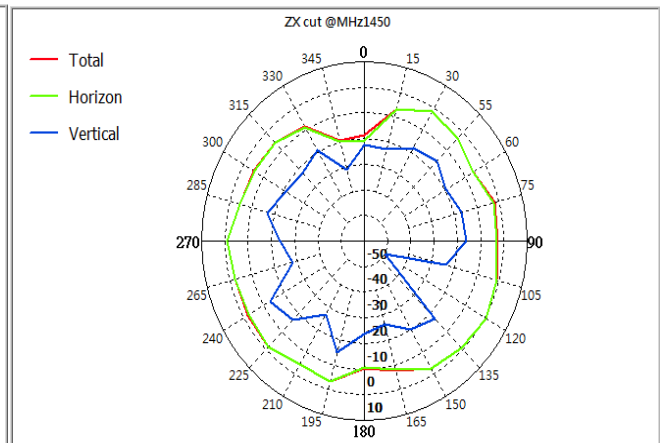
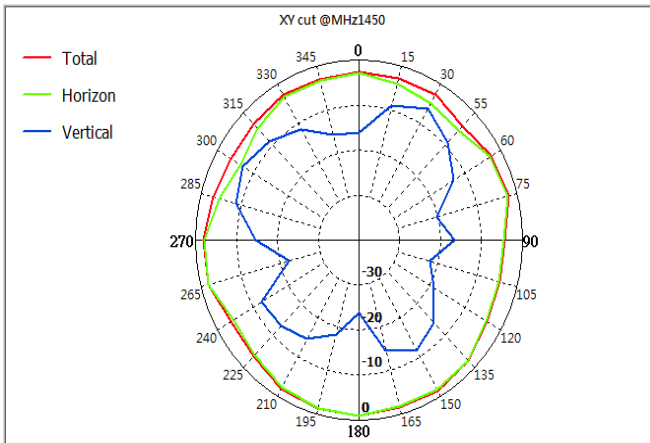


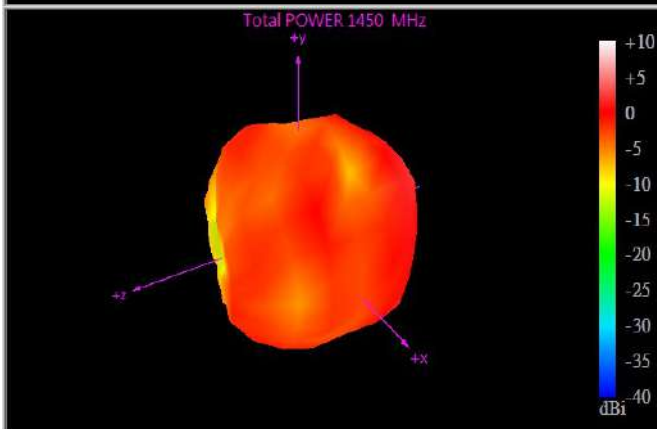
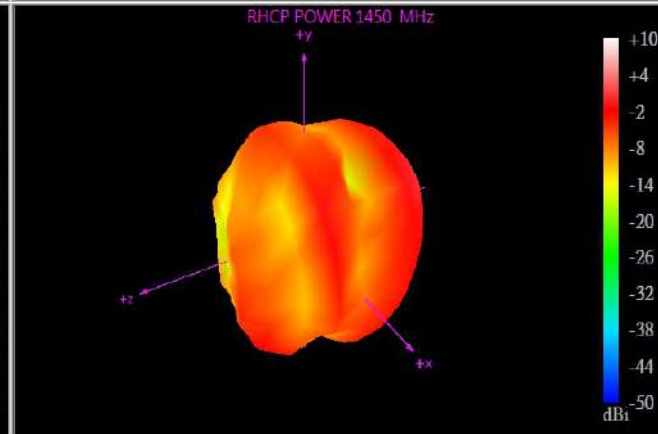
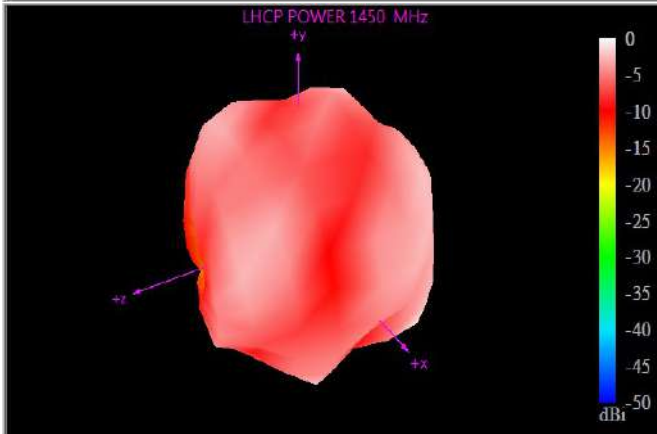
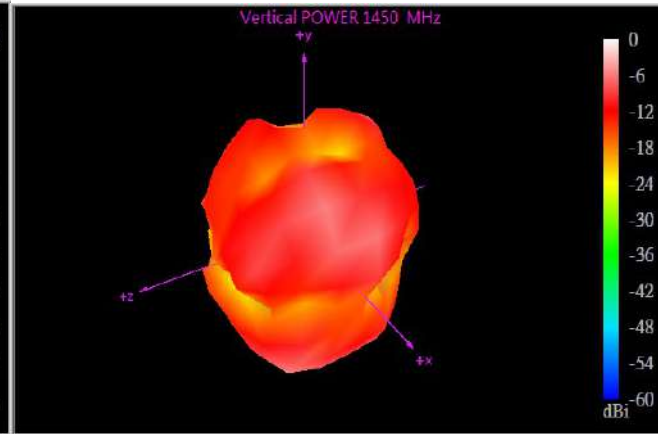
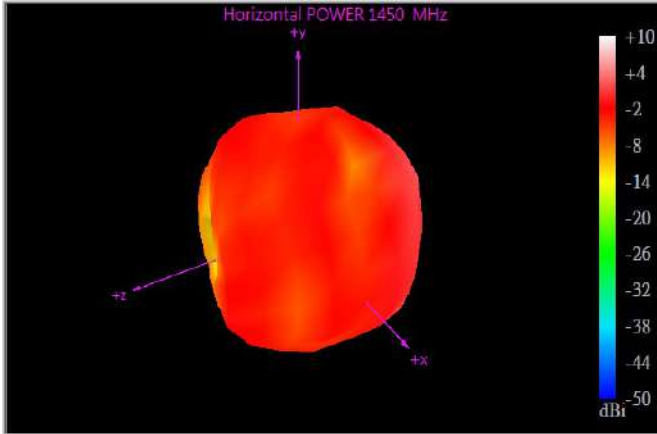
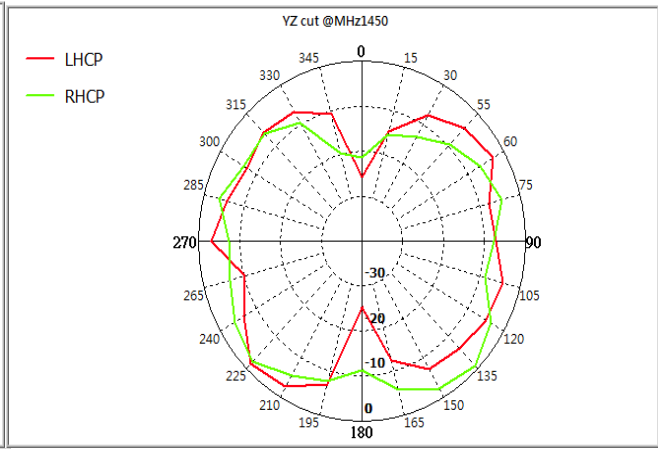
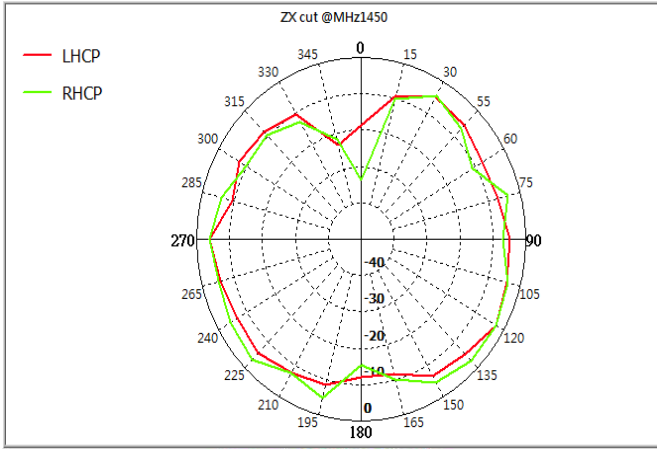
1400MHz:



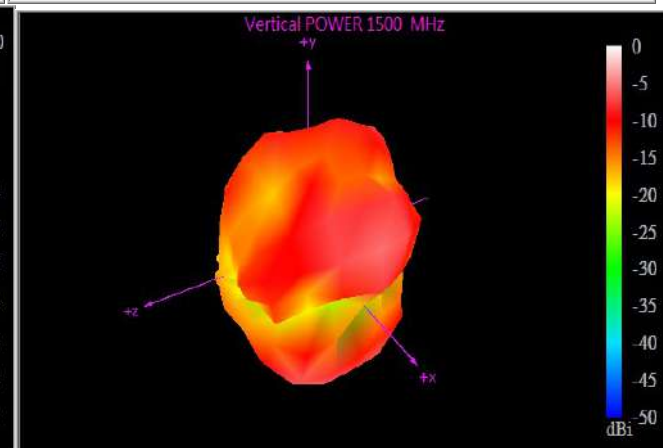
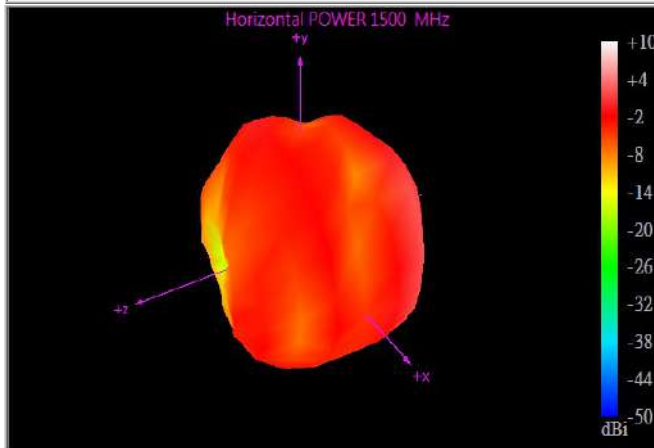
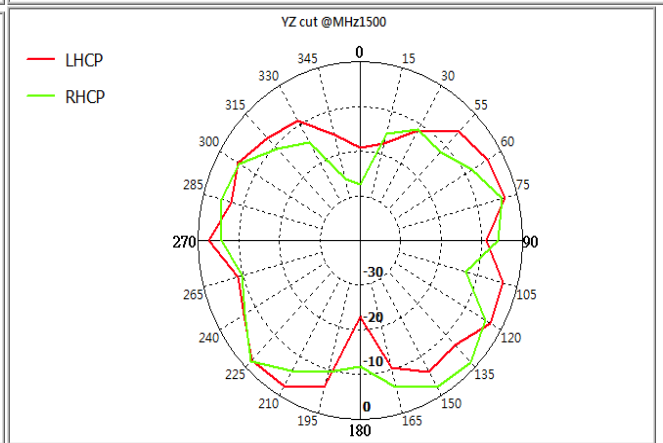
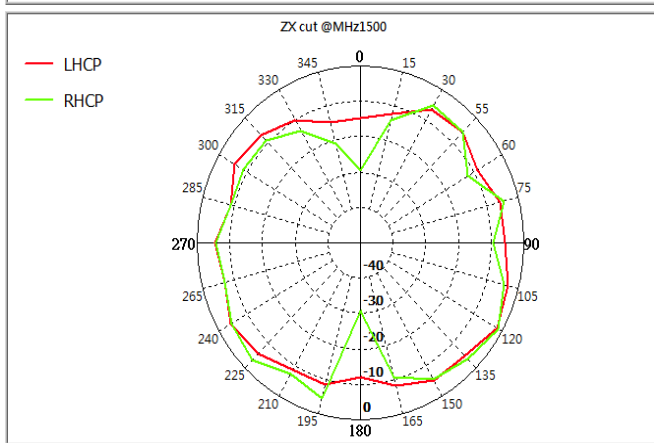
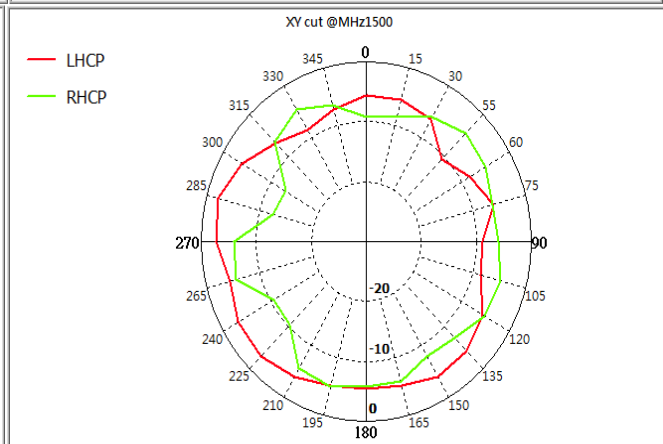
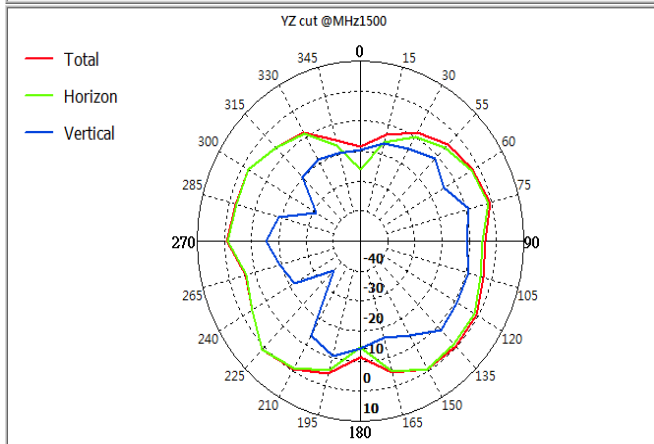
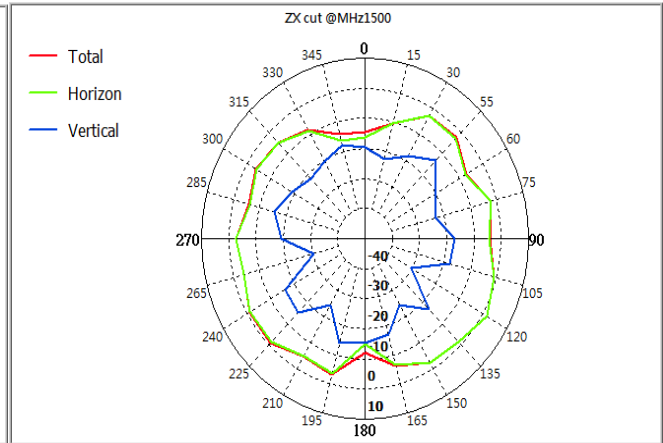
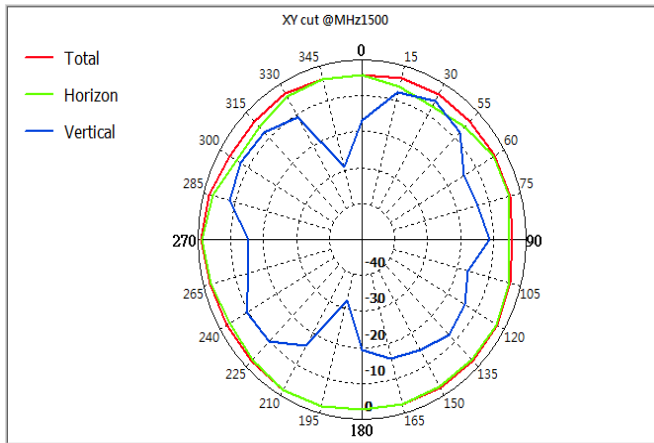


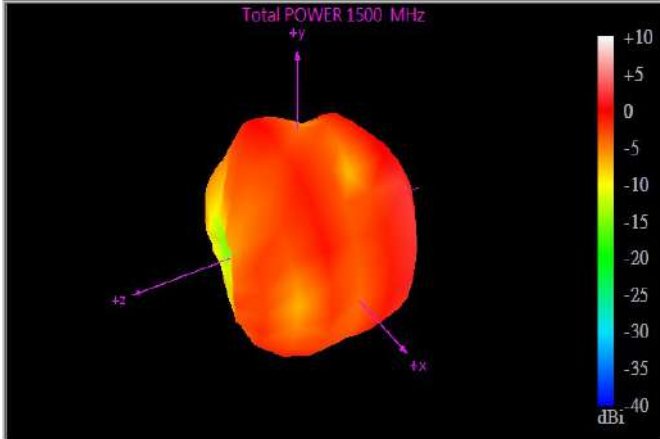
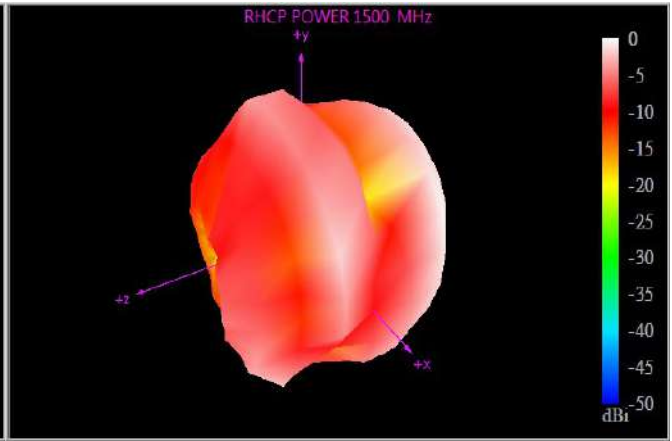
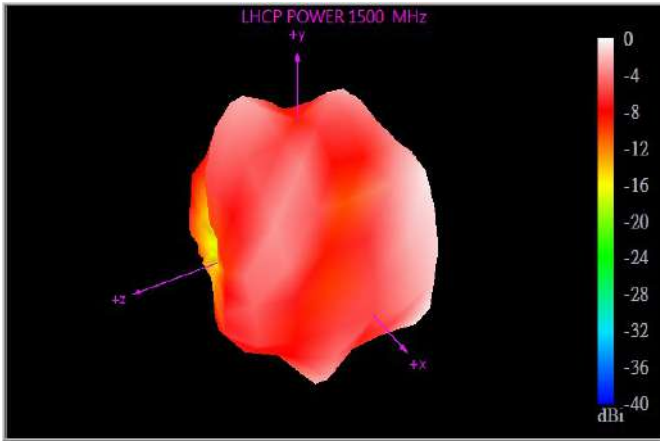
1450Mhz:



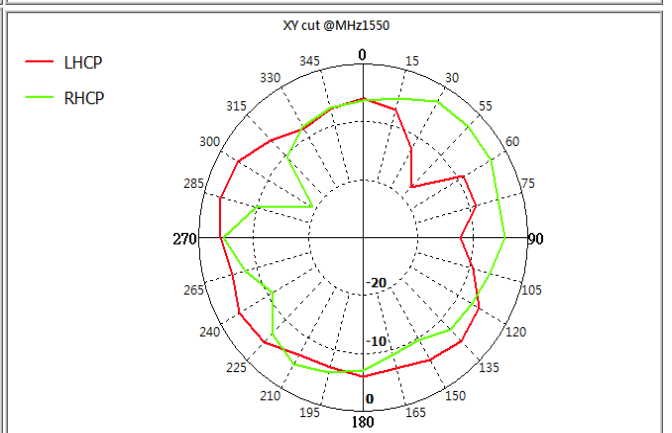
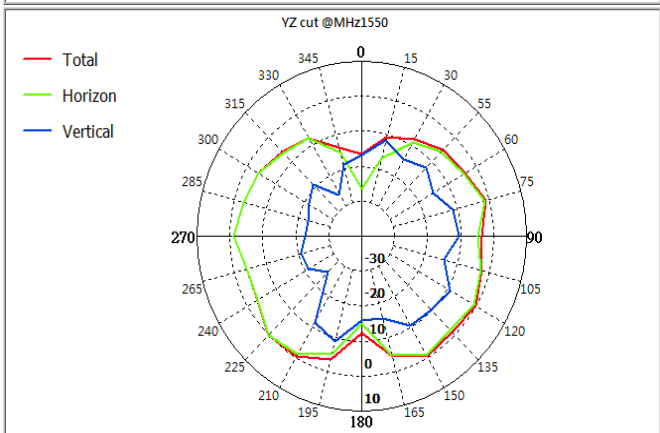
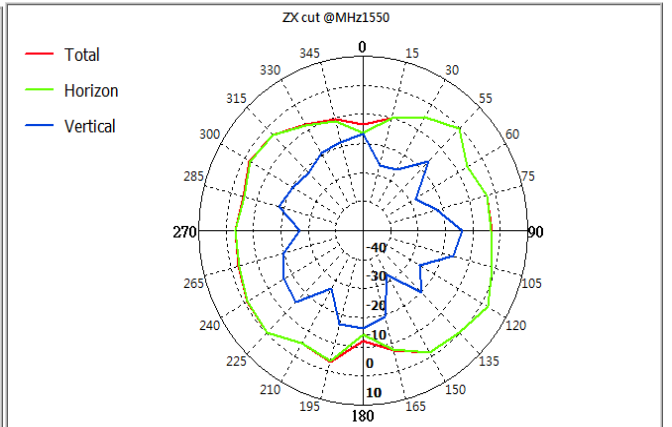
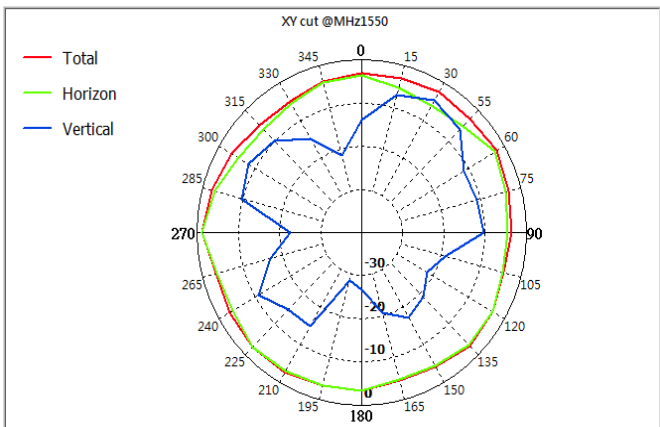


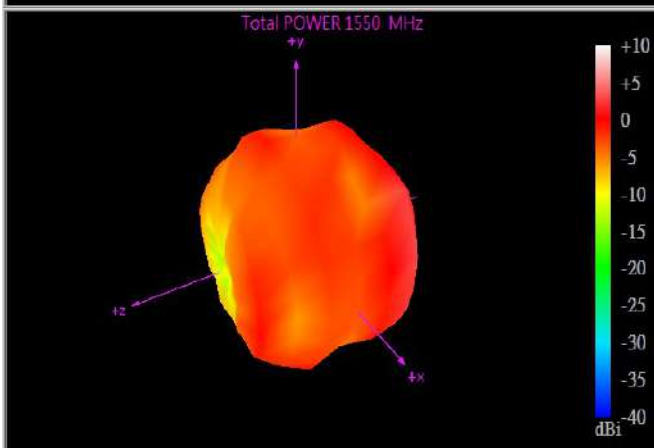
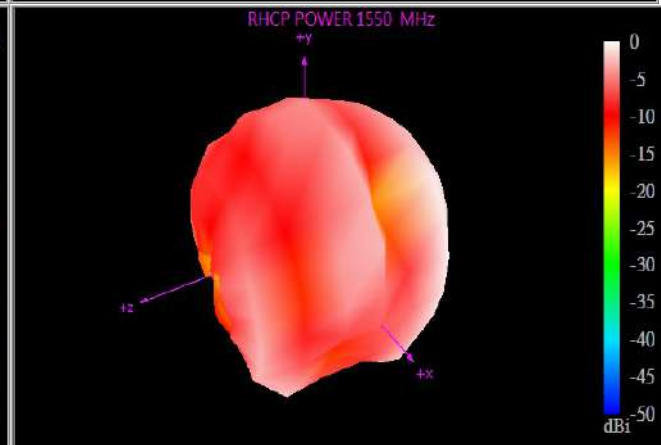
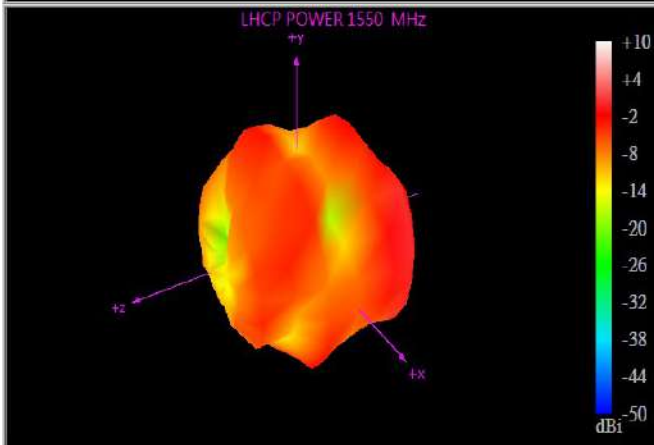
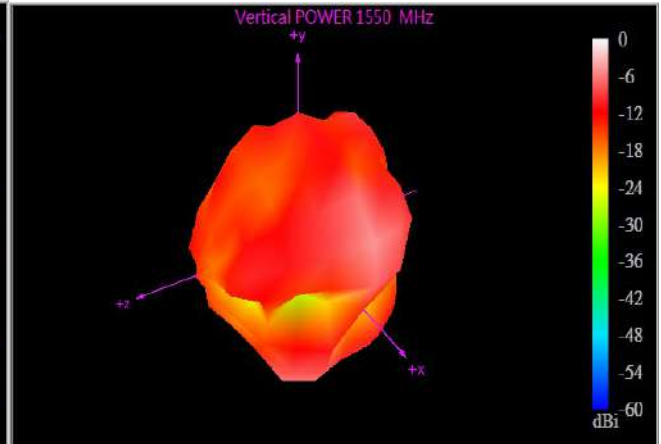
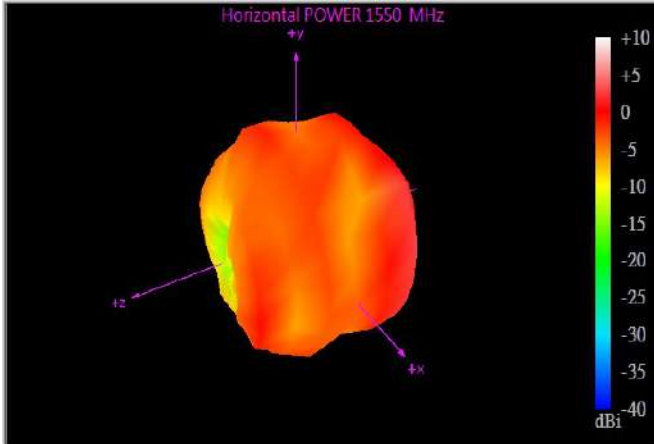
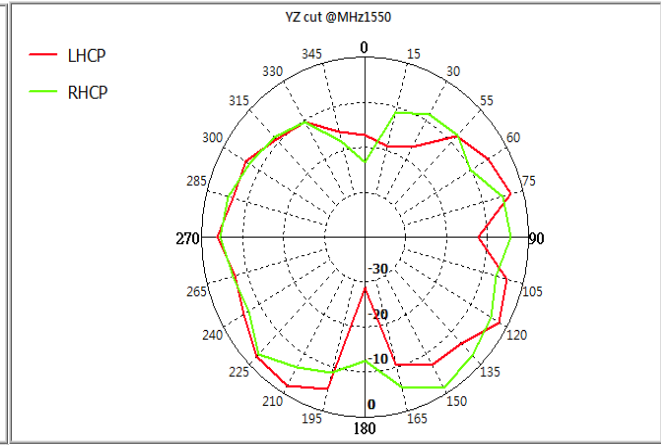
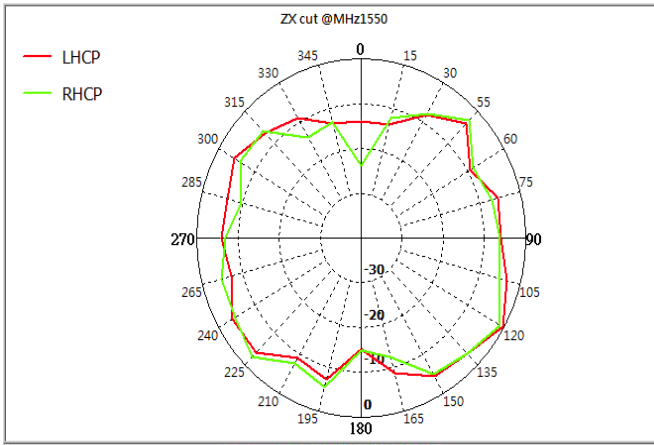
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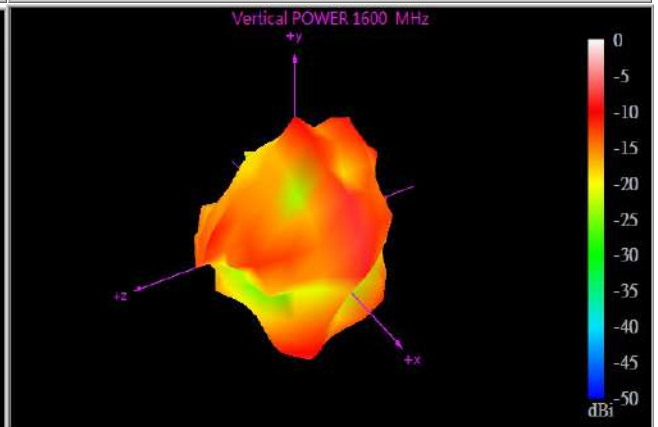
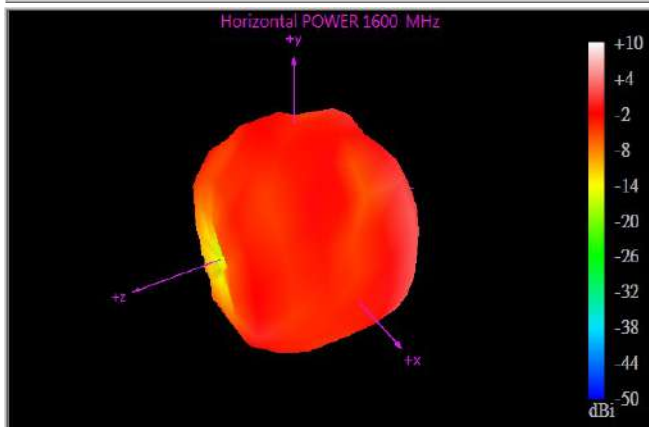
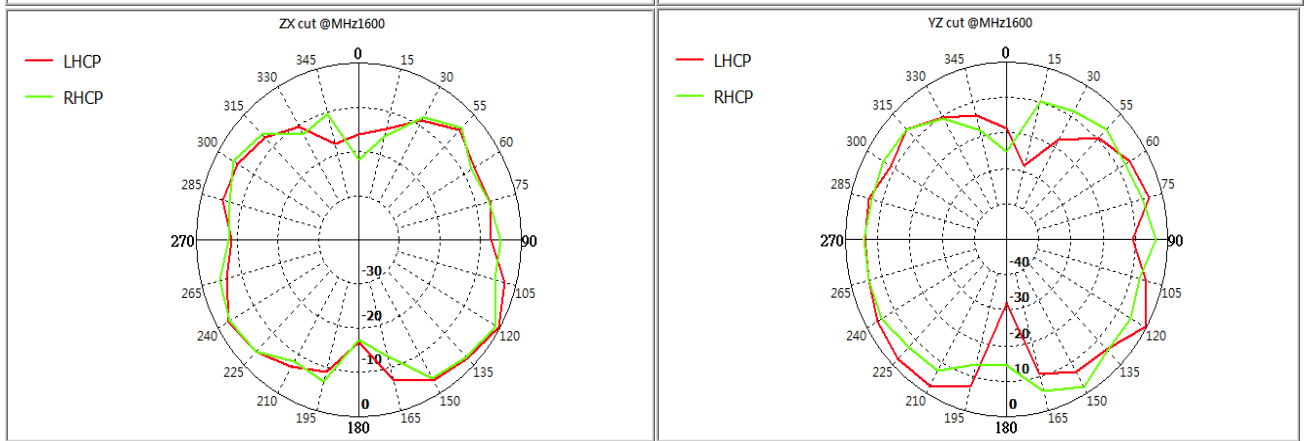
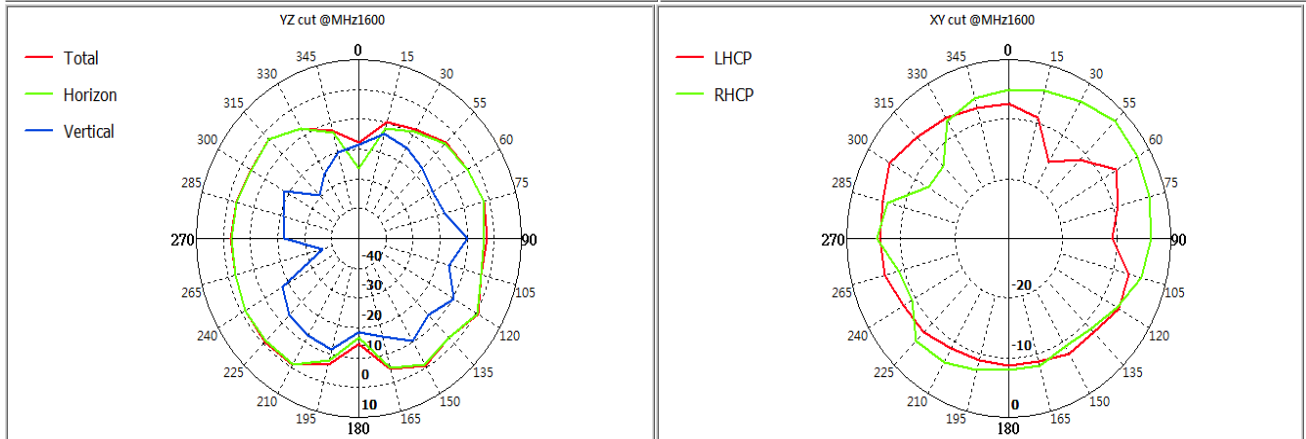
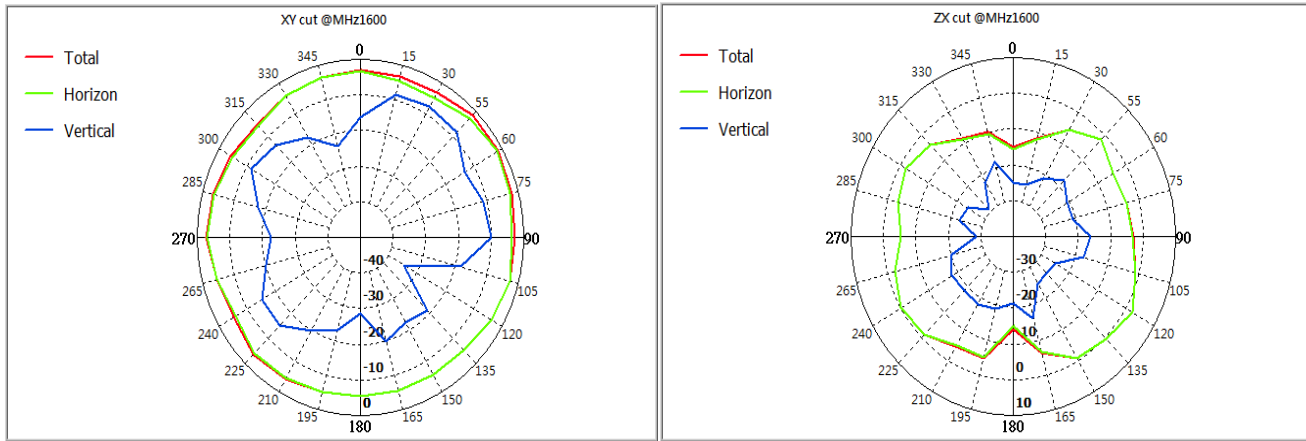


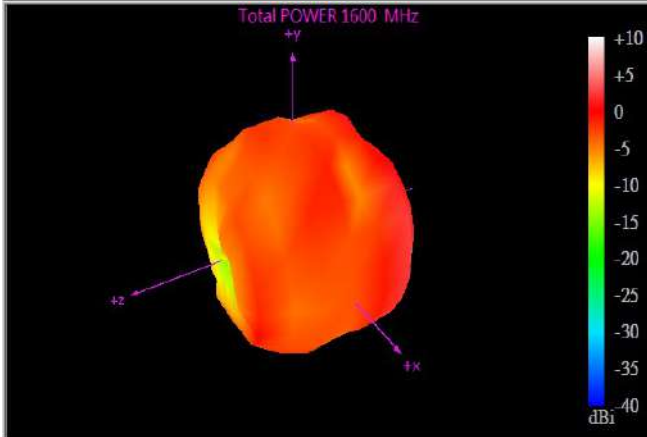
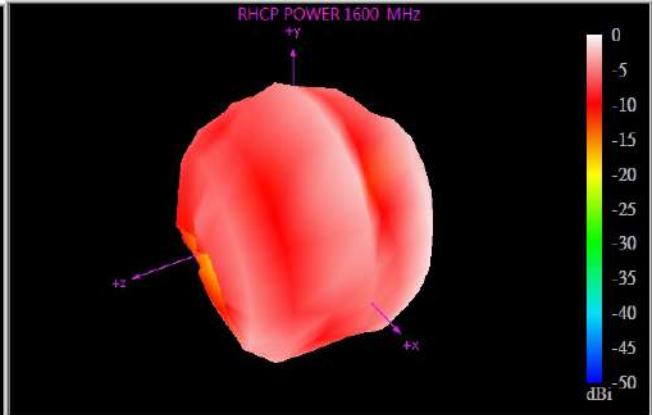
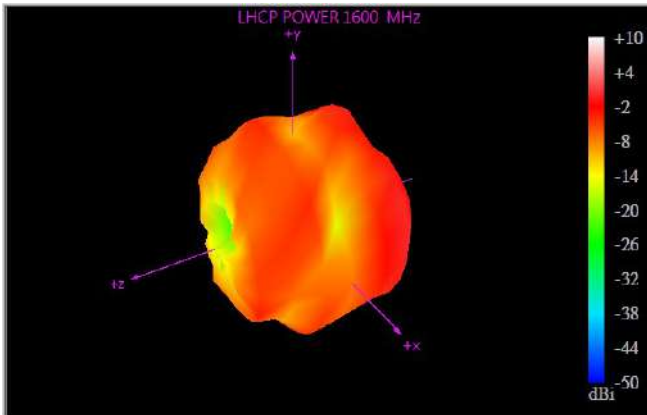
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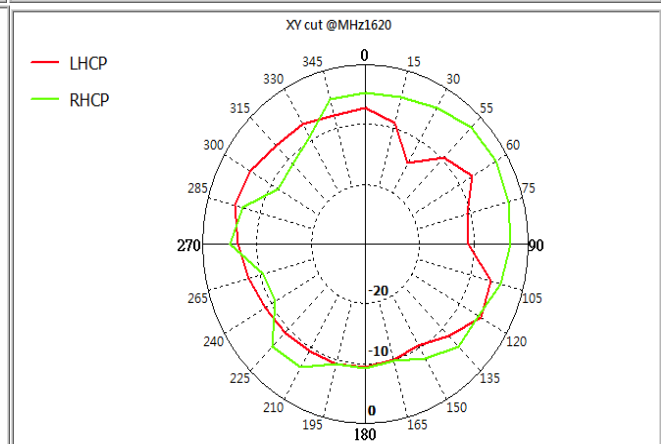
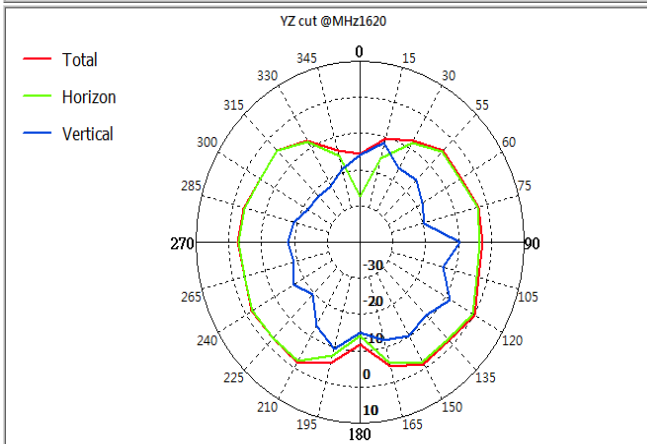
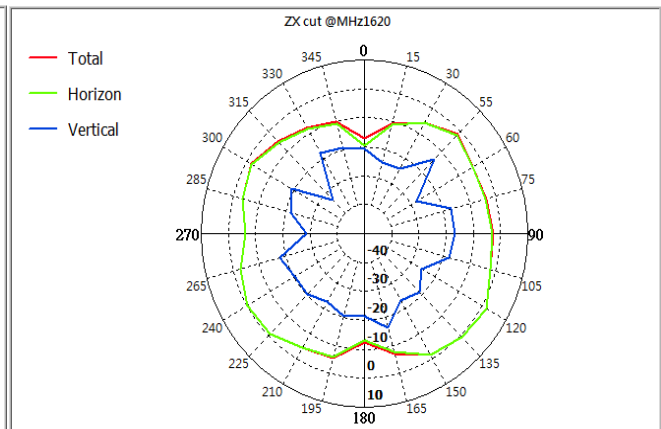
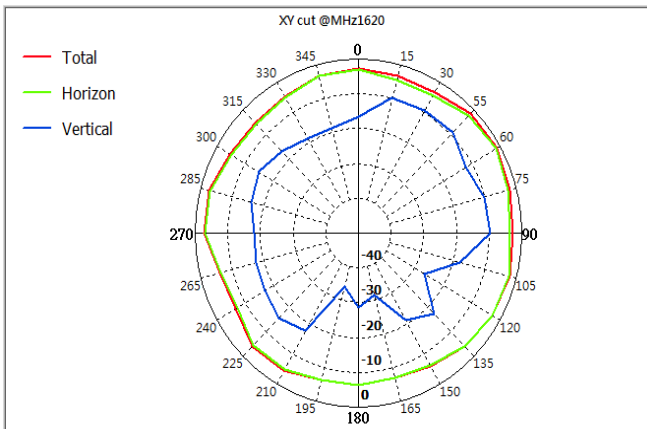


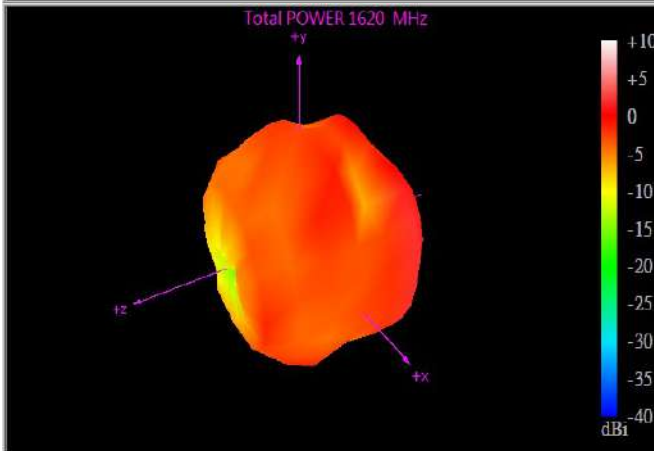
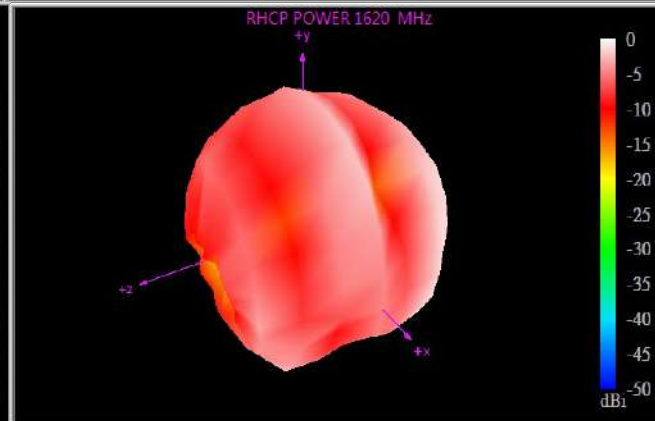
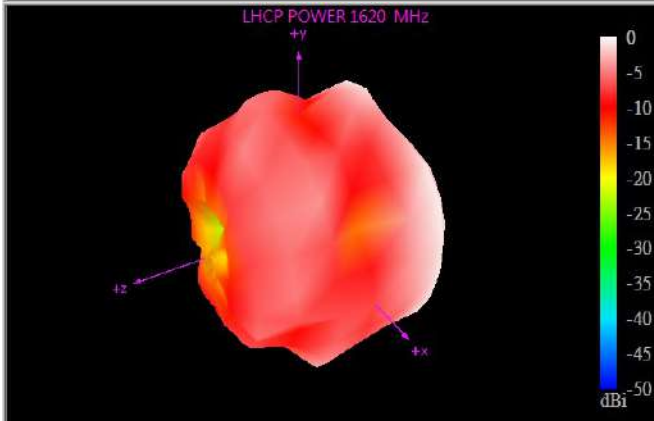
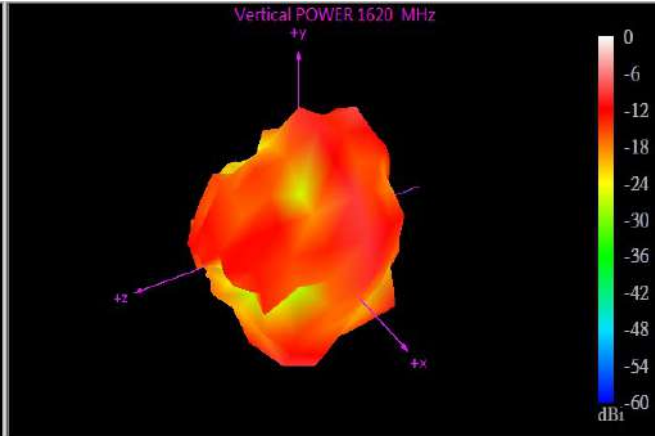
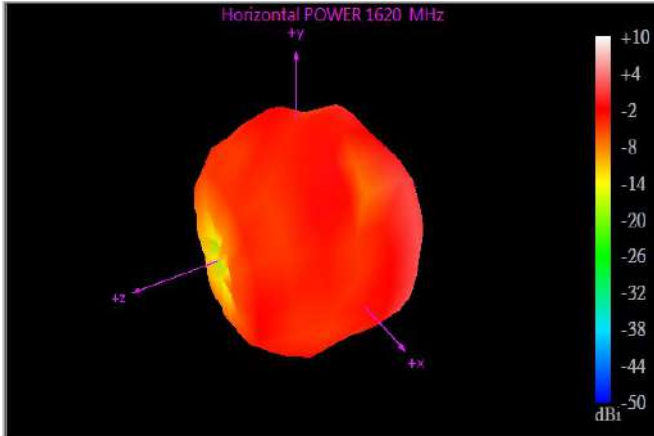
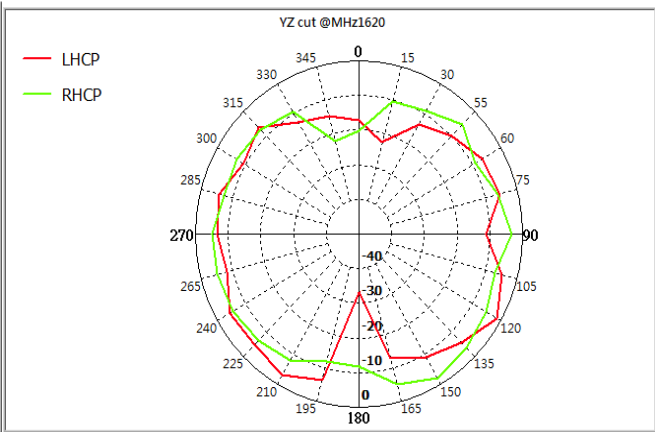
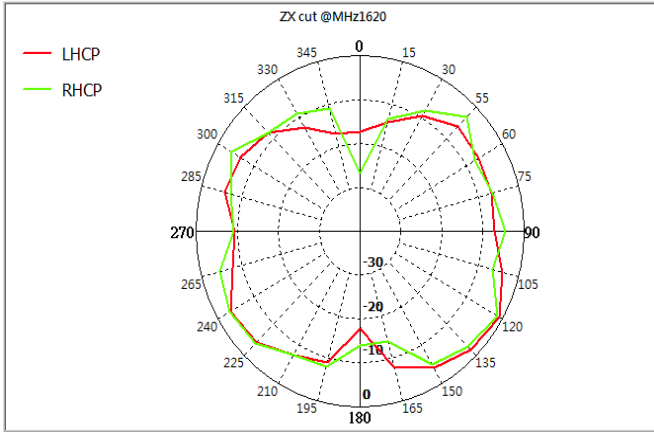
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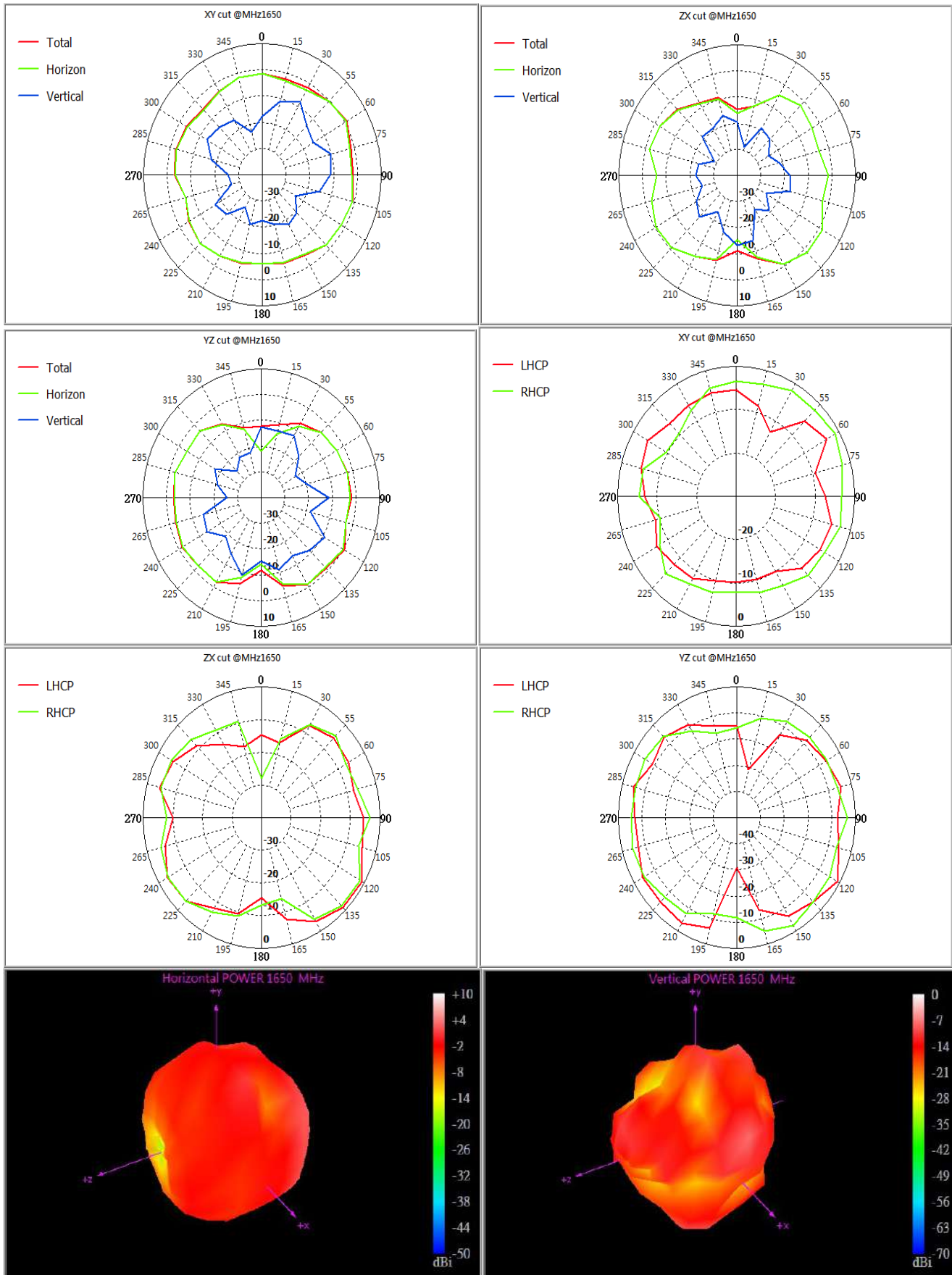


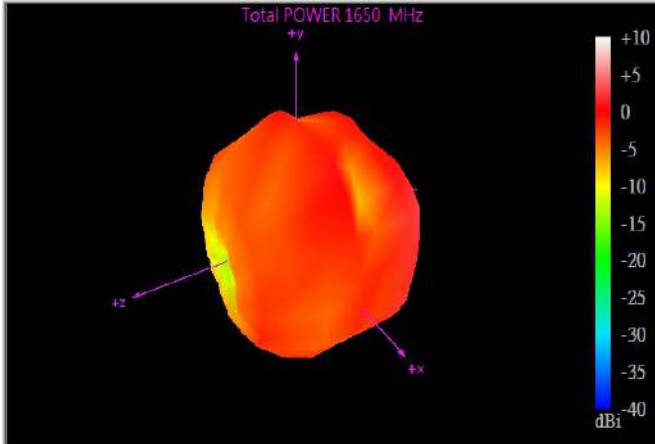
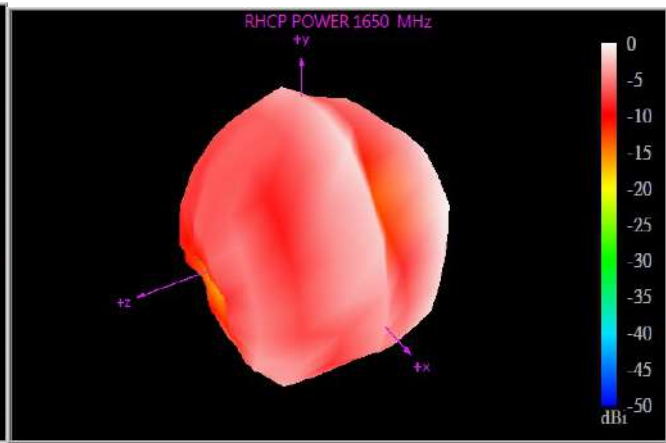
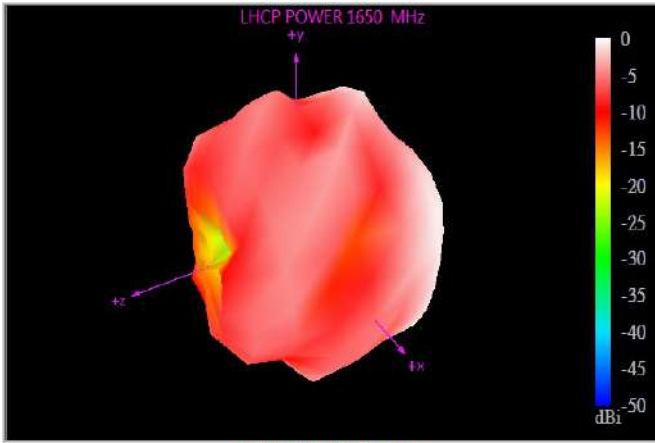
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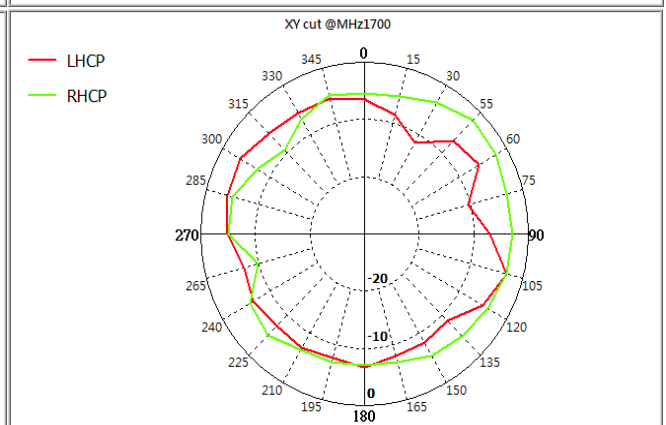
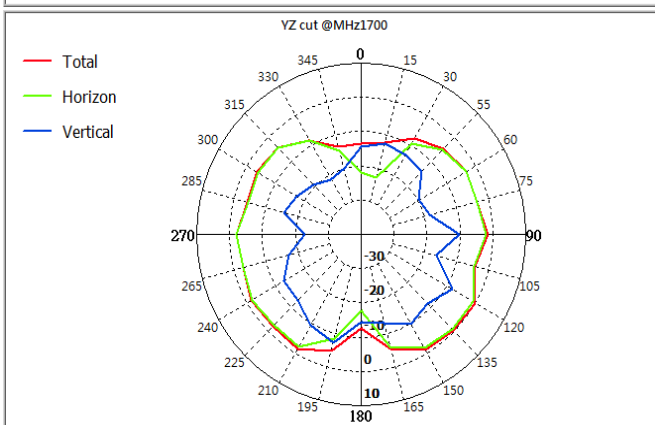
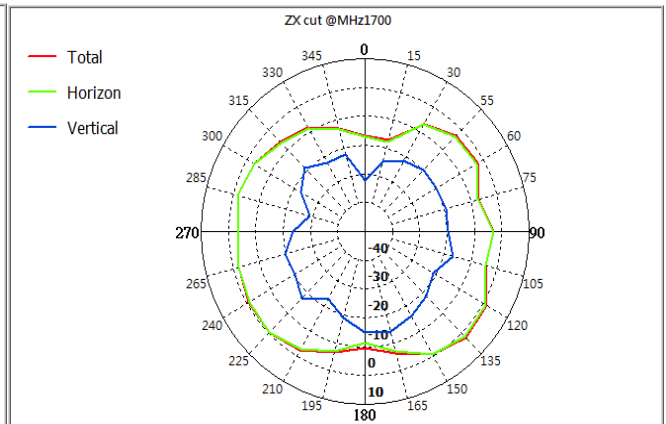
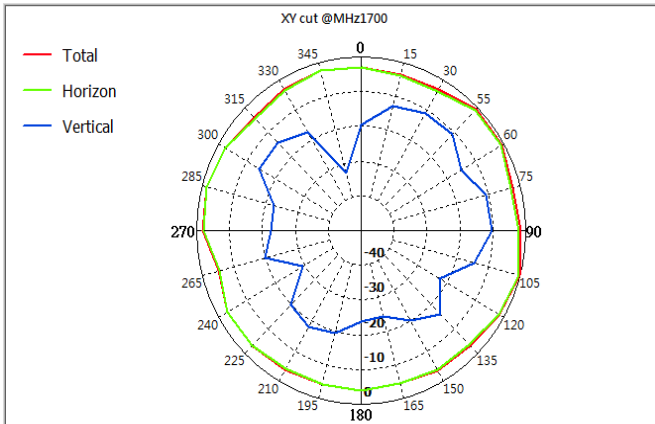


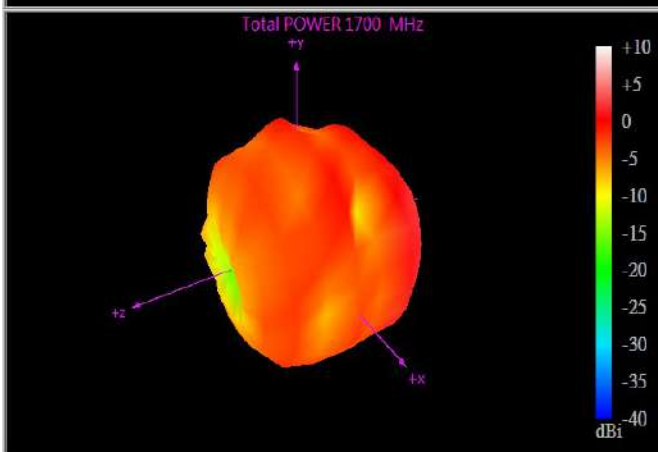
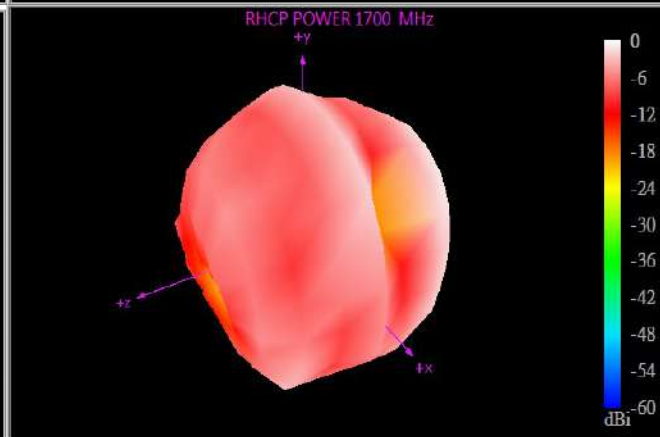
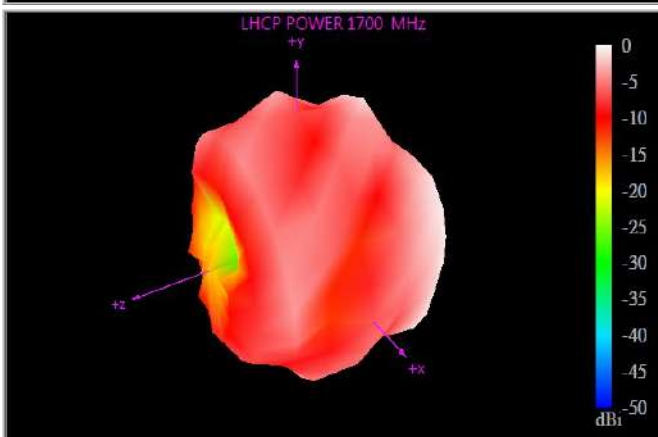
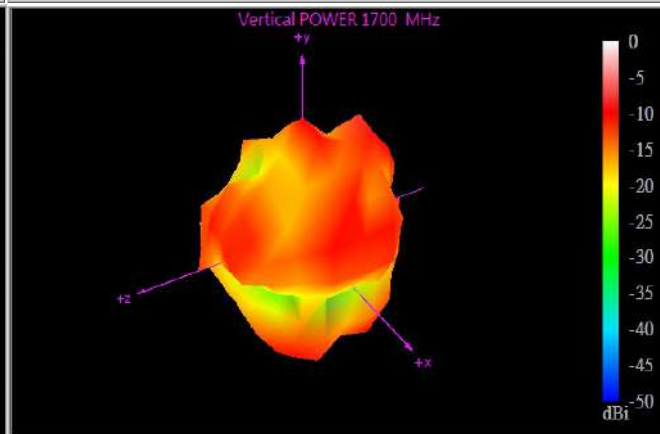
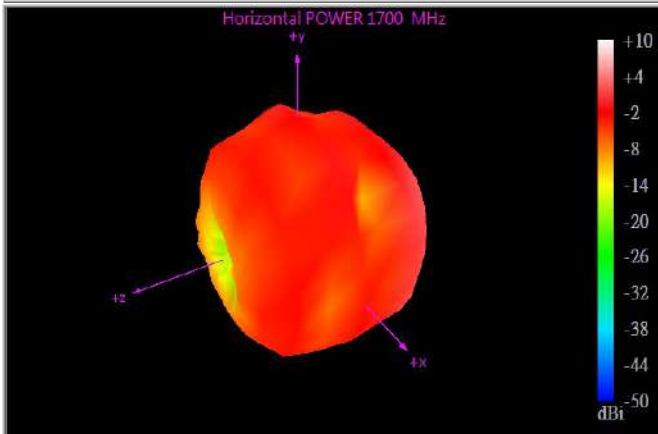
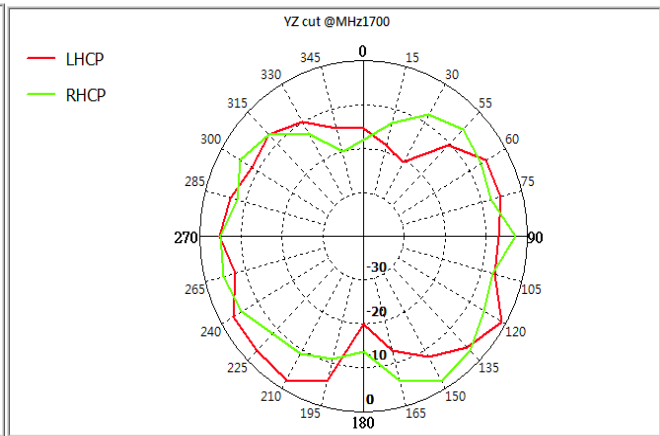
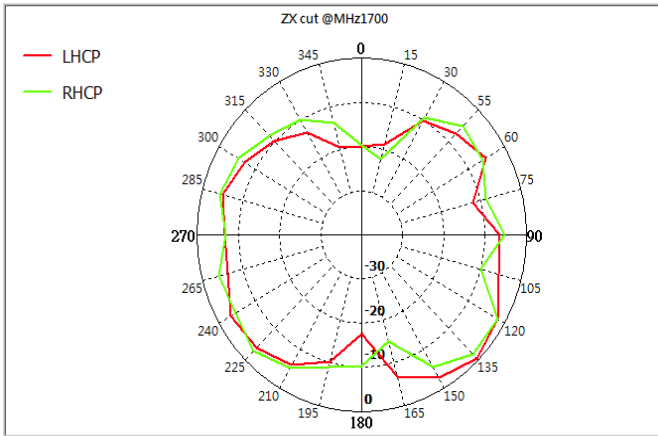
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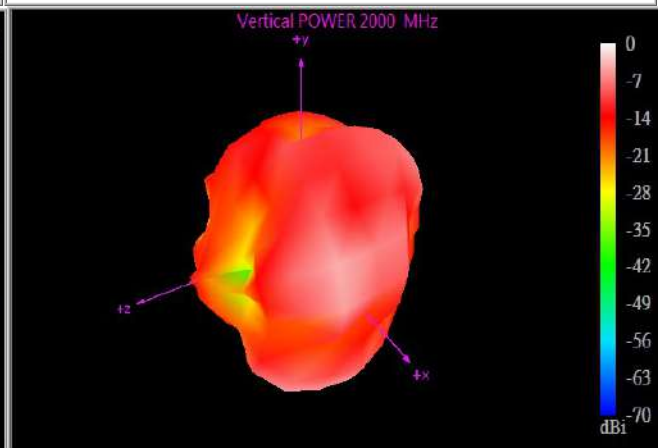
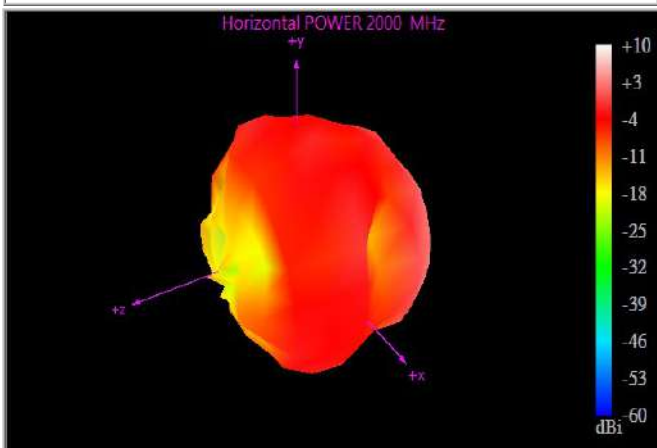
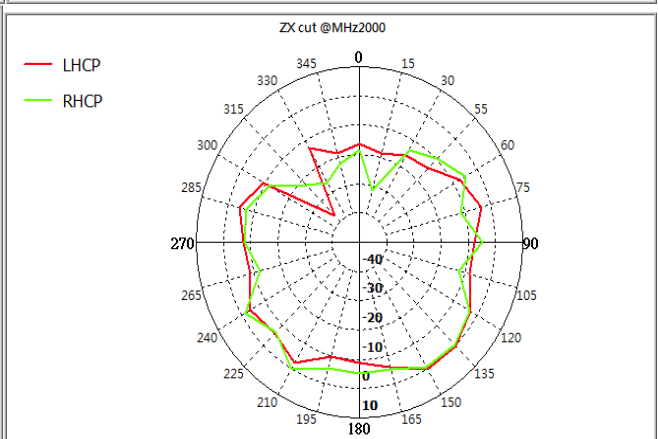
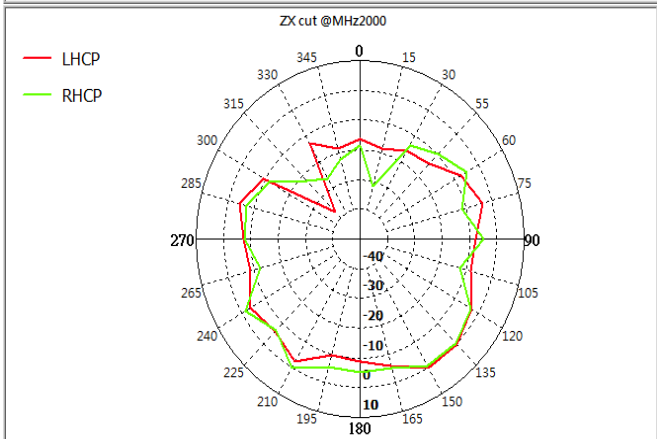
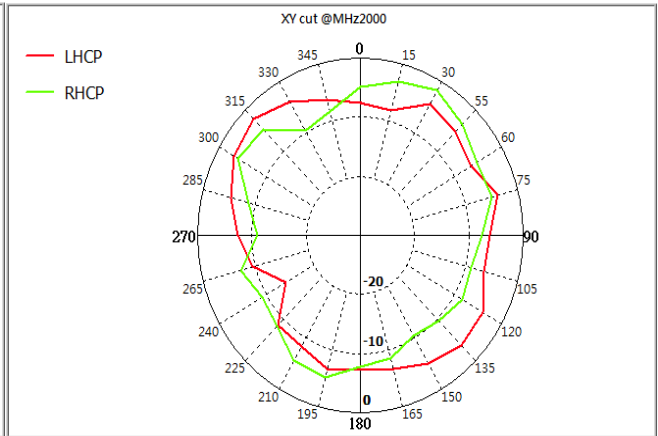
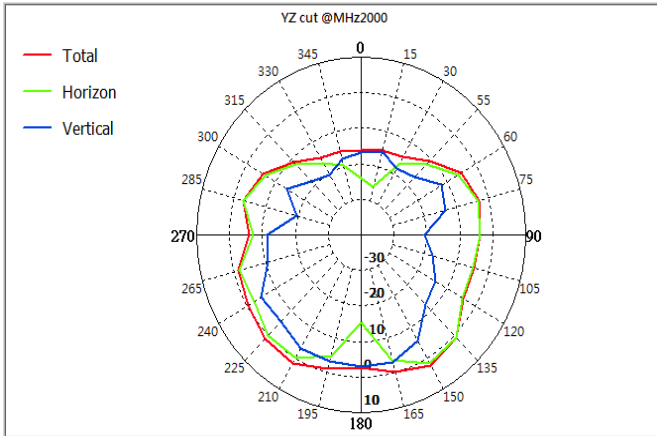
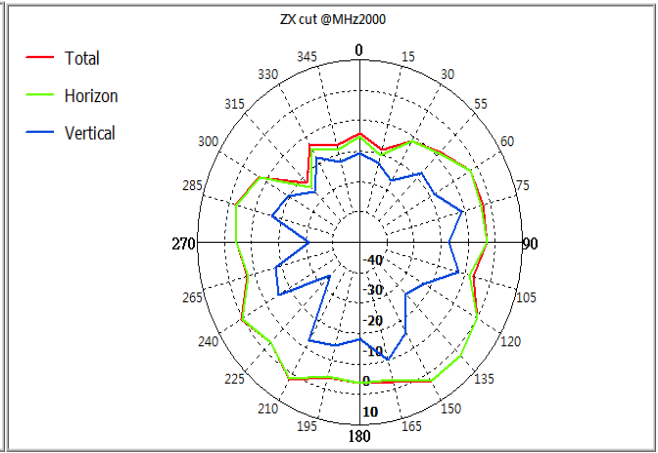
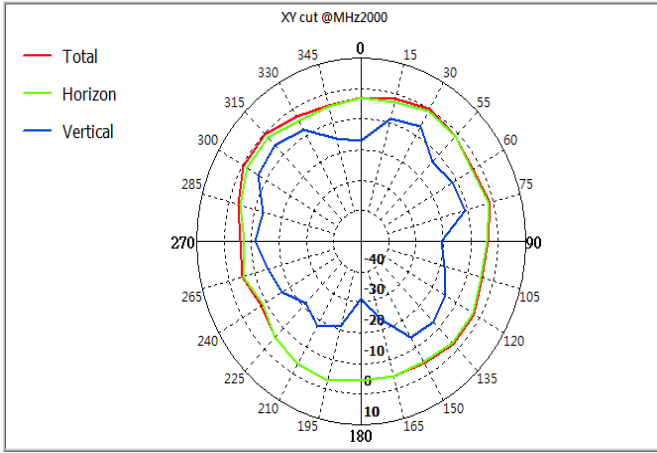


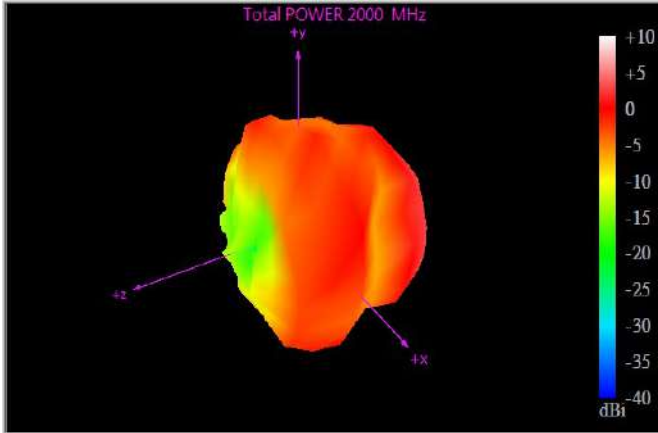
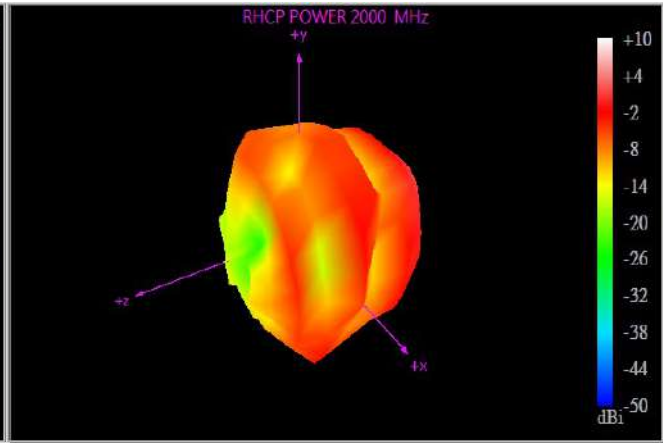
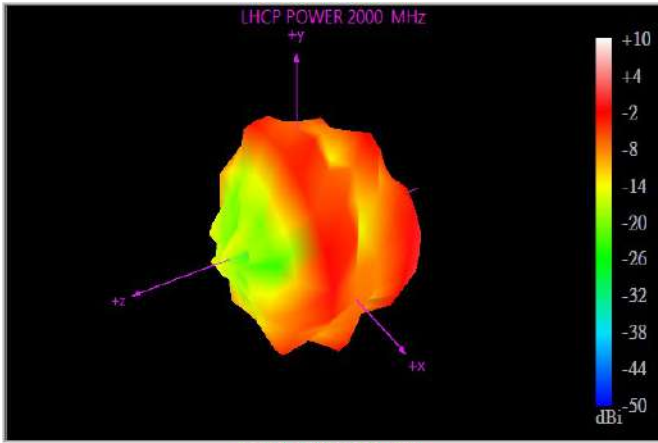
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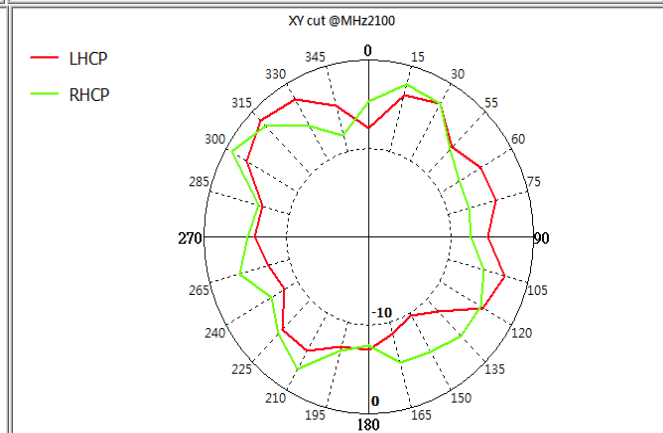
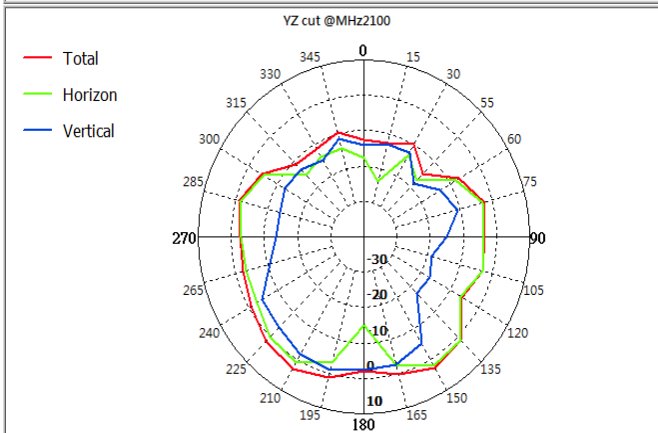
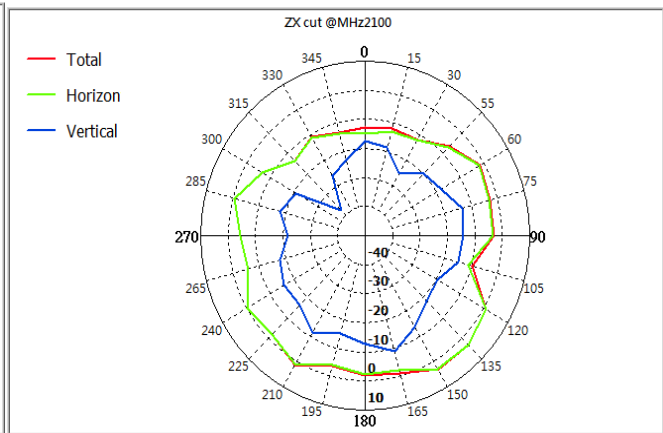
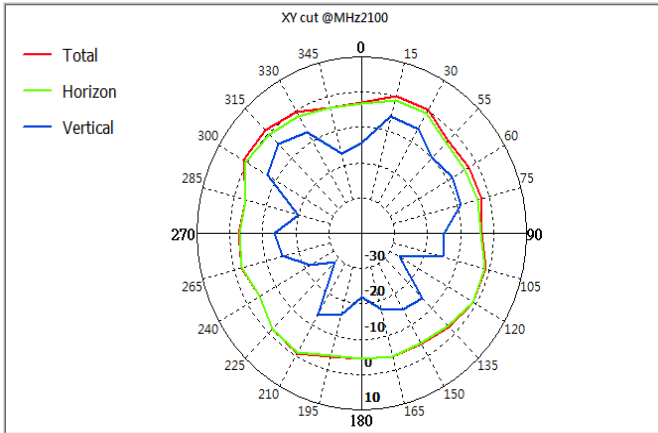


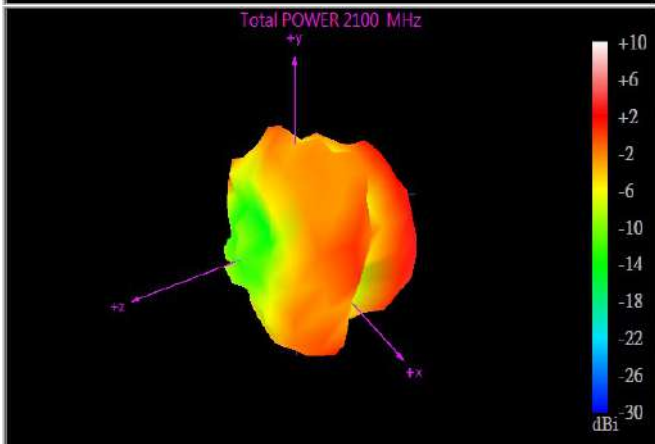
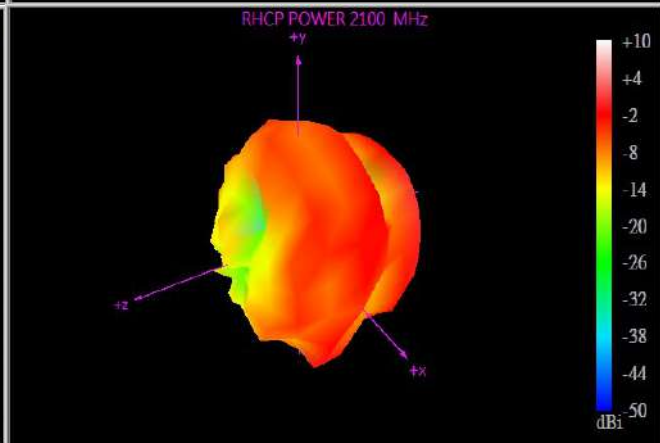
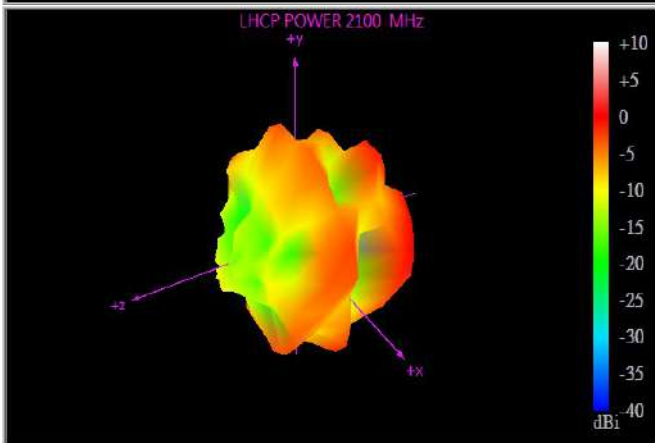
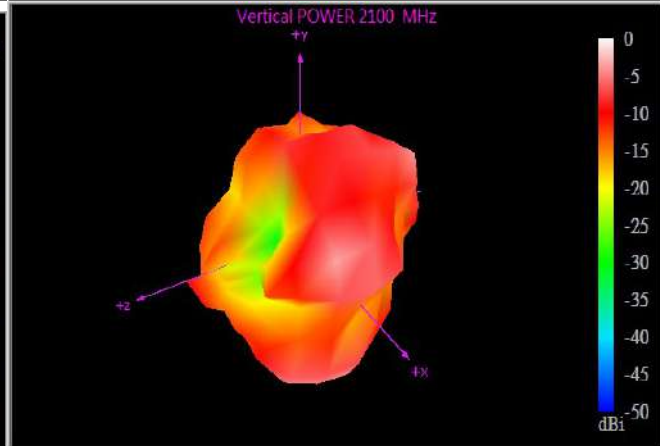
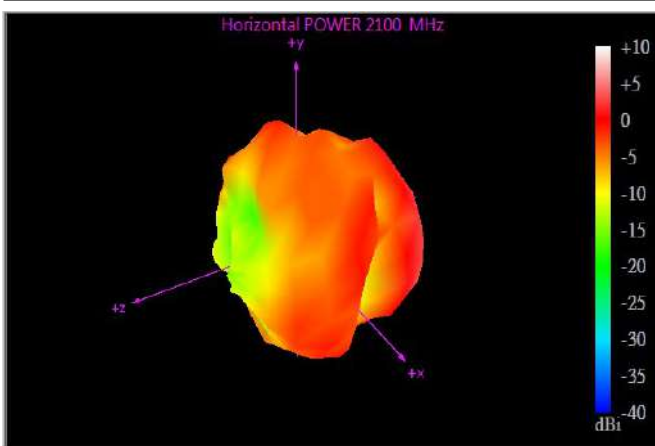
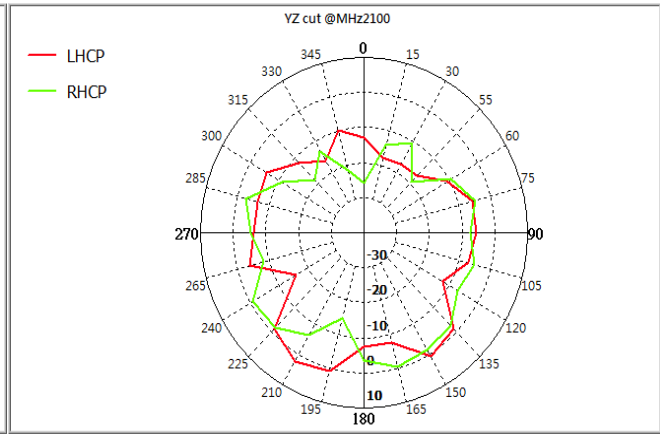
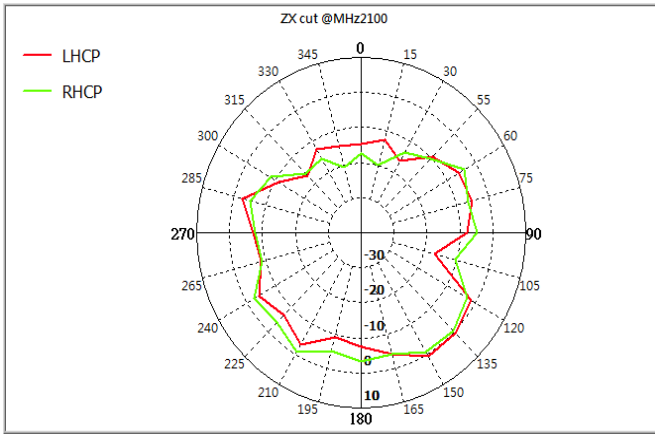
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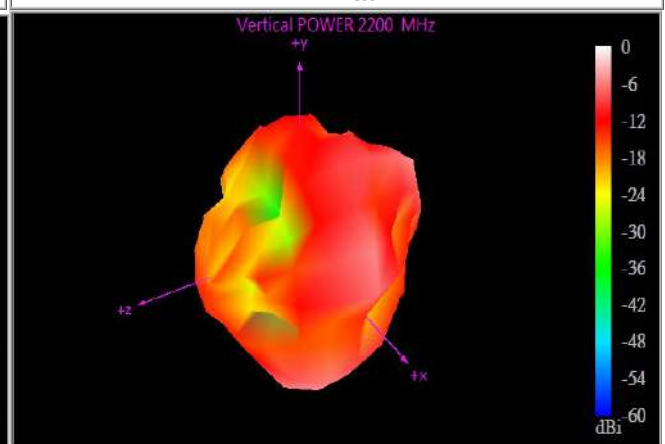
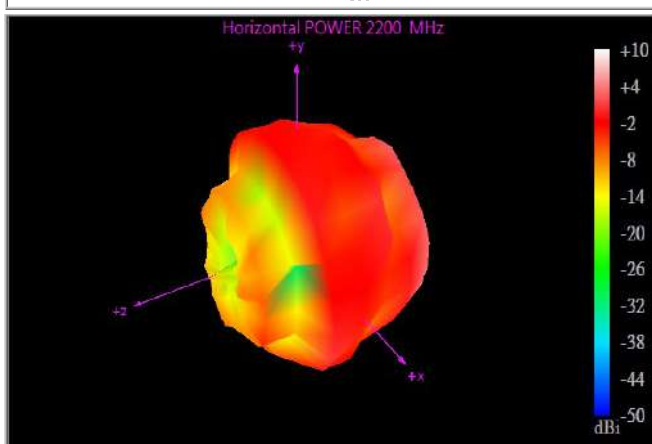
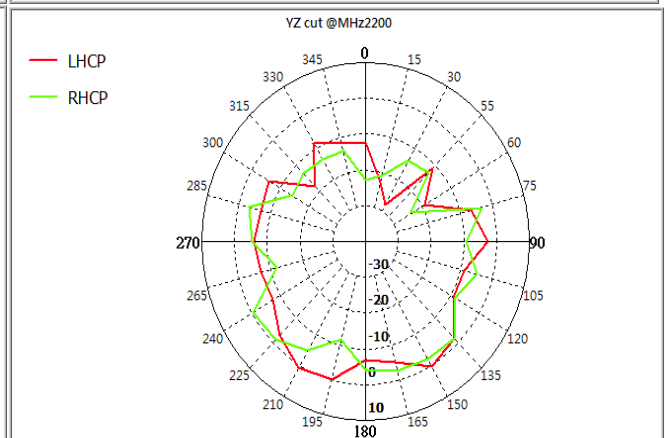
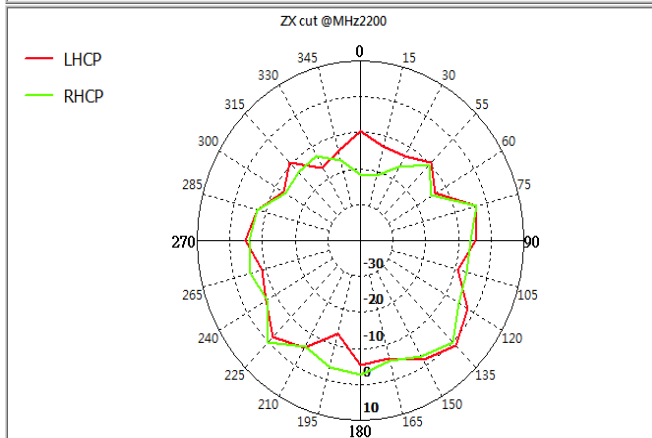
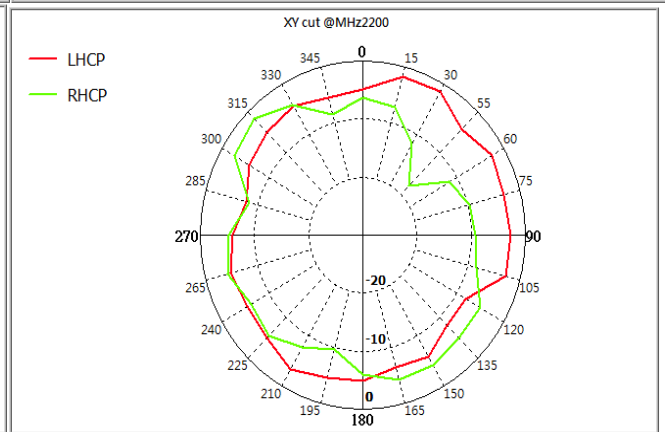
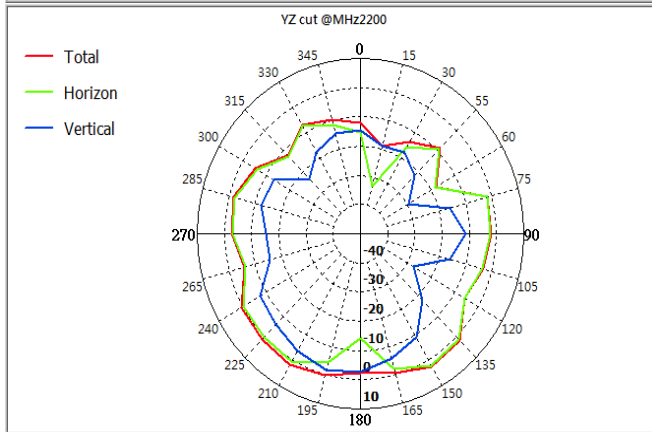
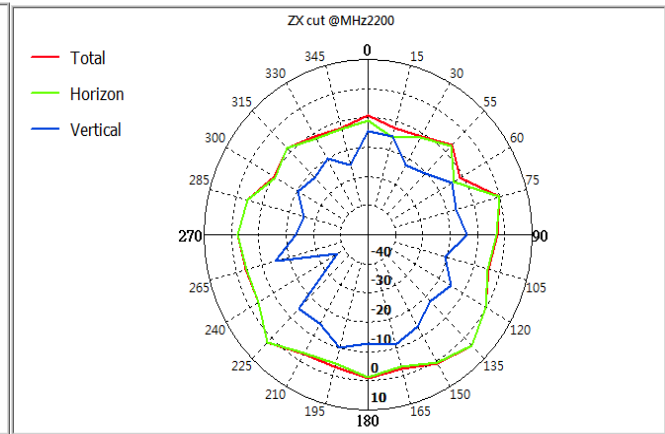
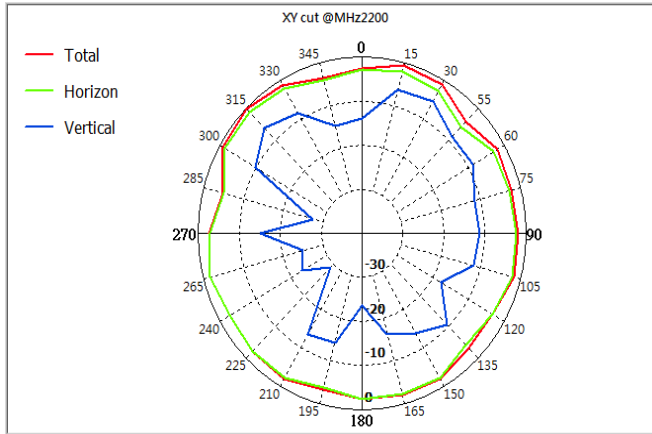


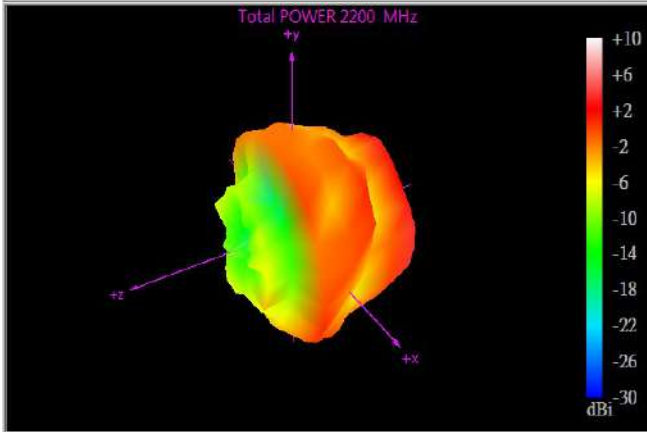
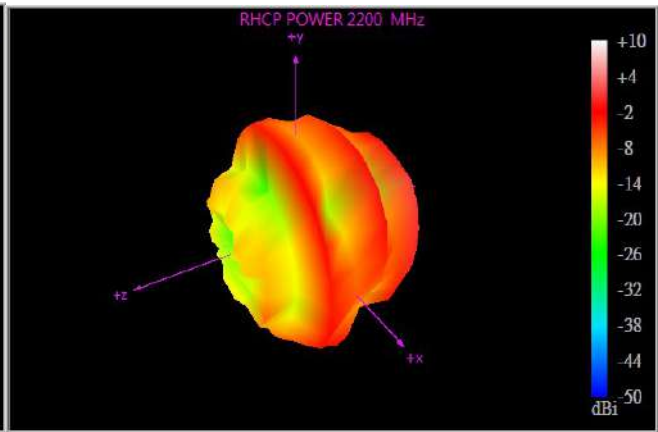
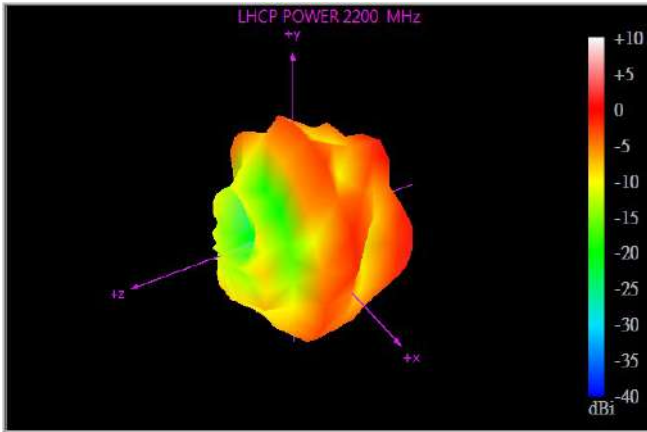
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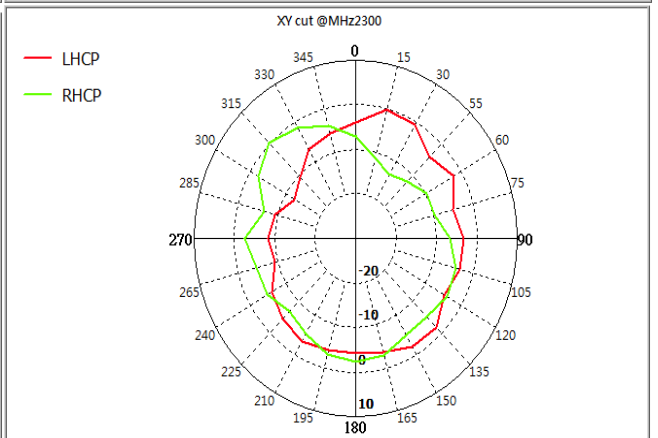
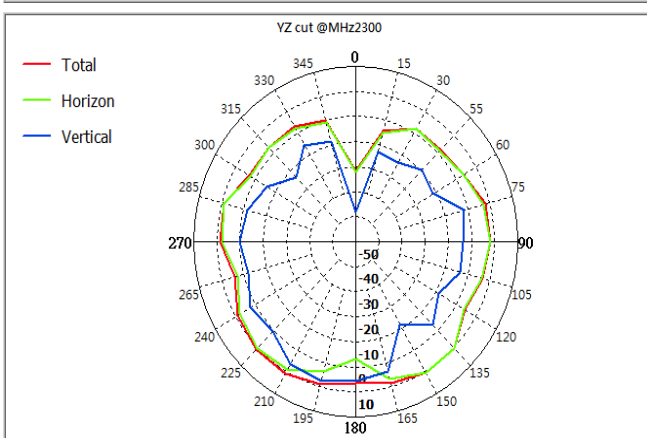
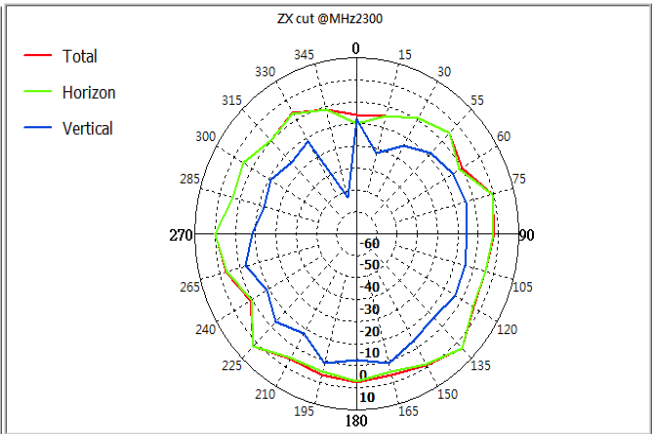
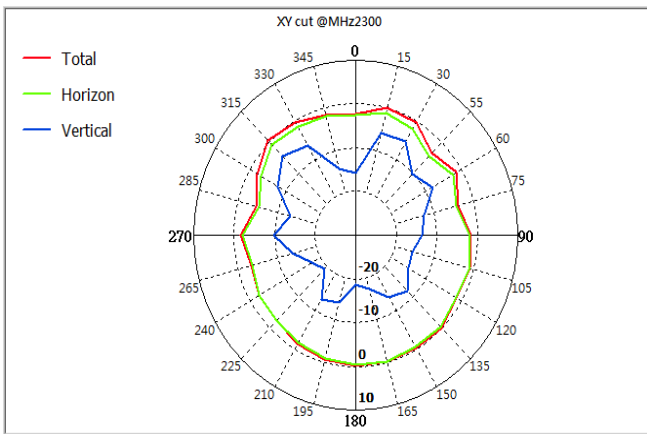


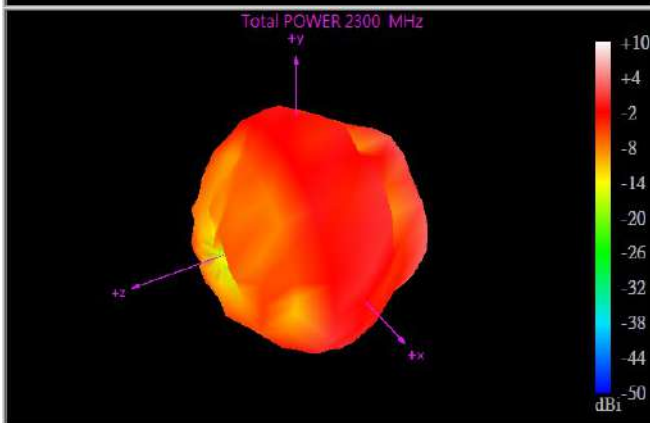
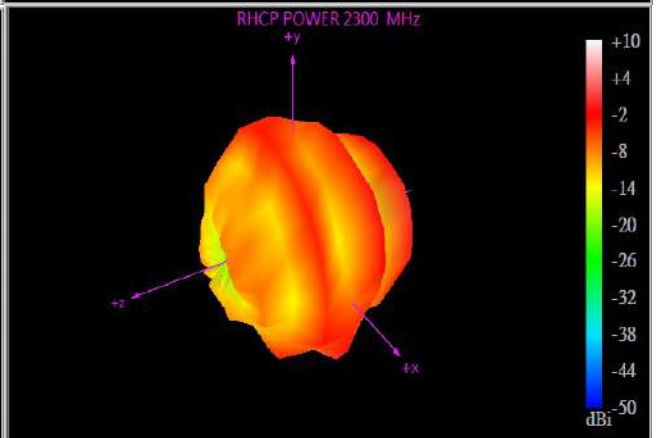
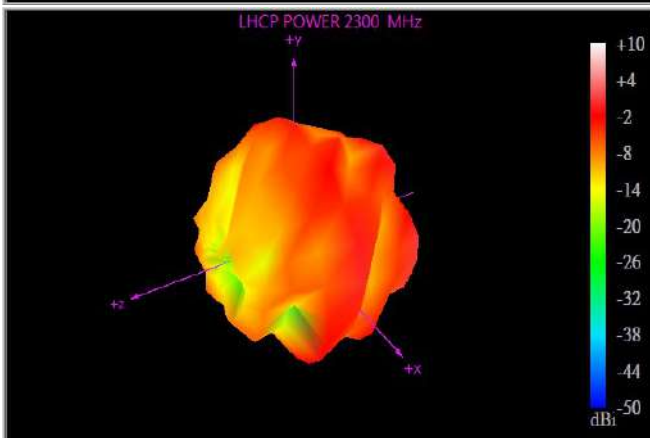
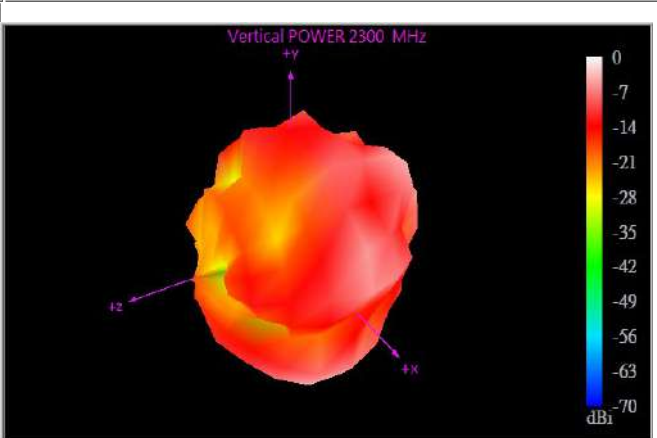
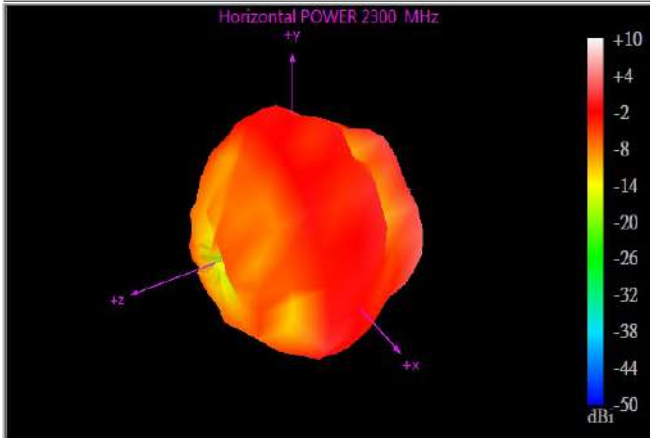
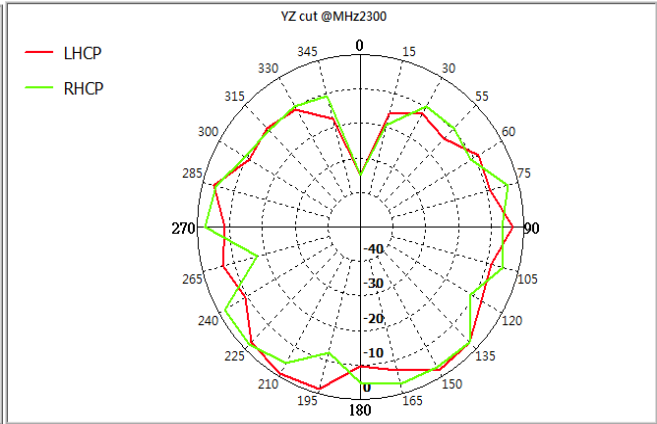
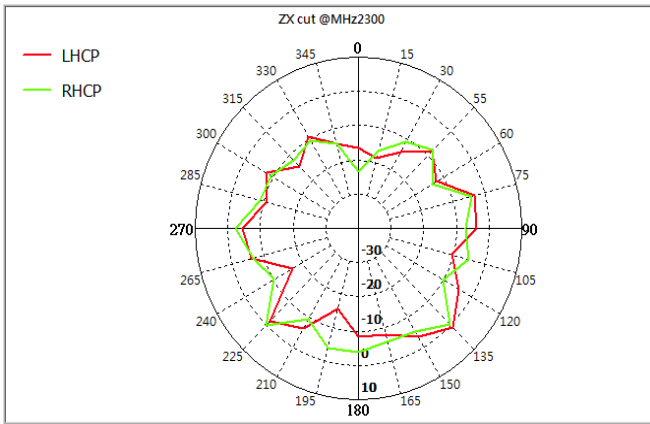
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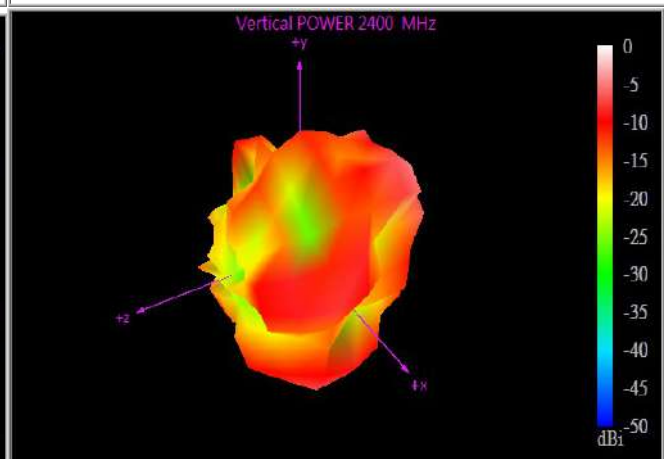
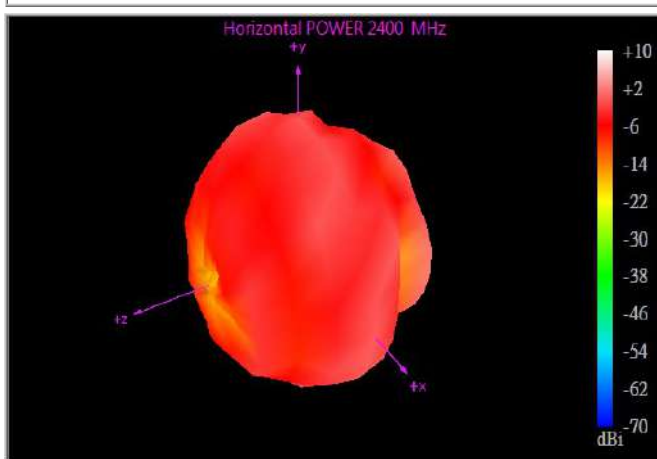
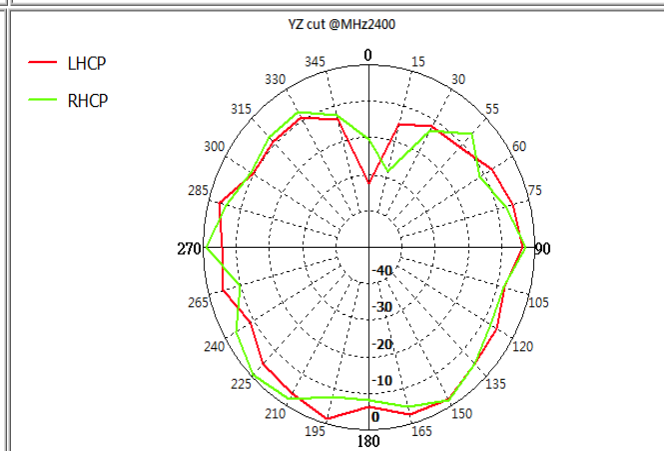
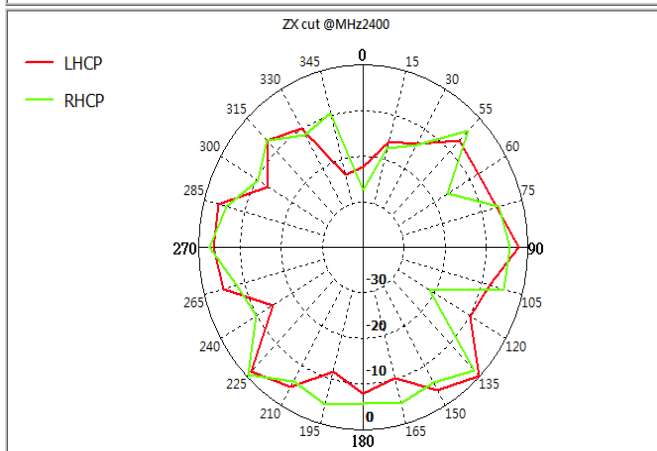
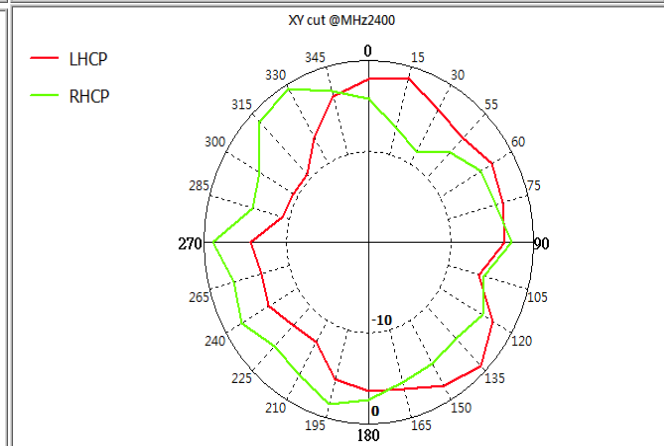
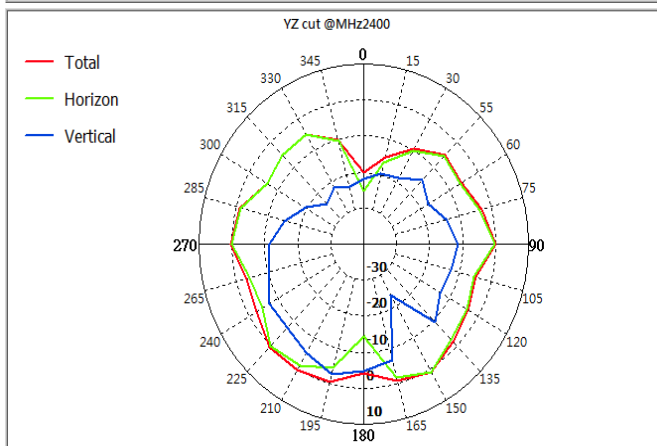
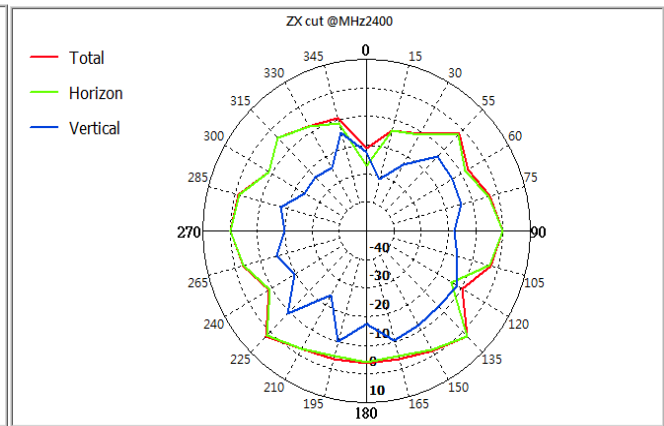
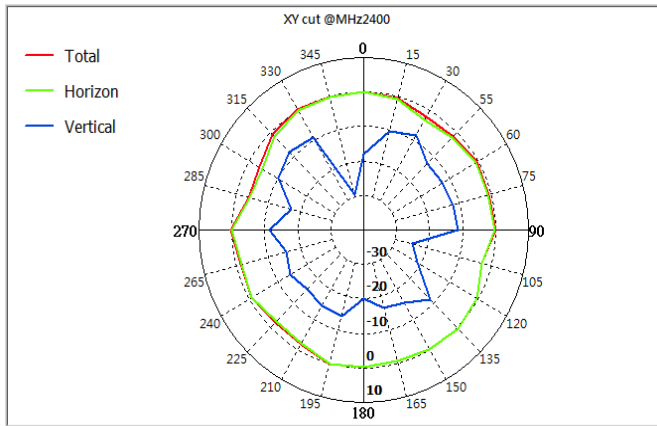


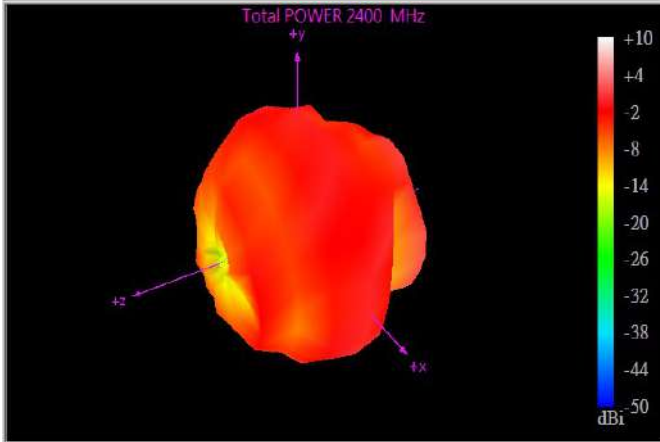
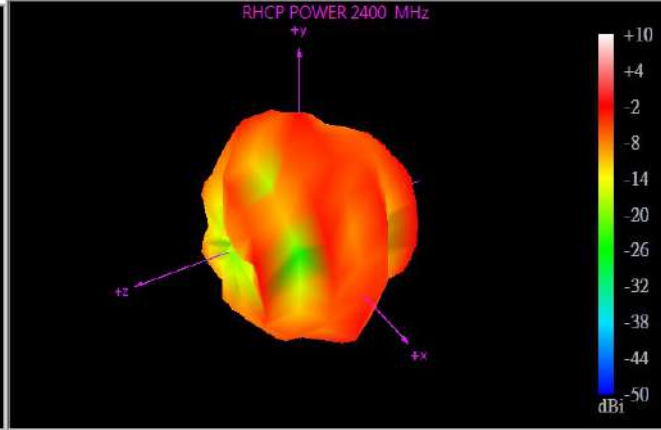
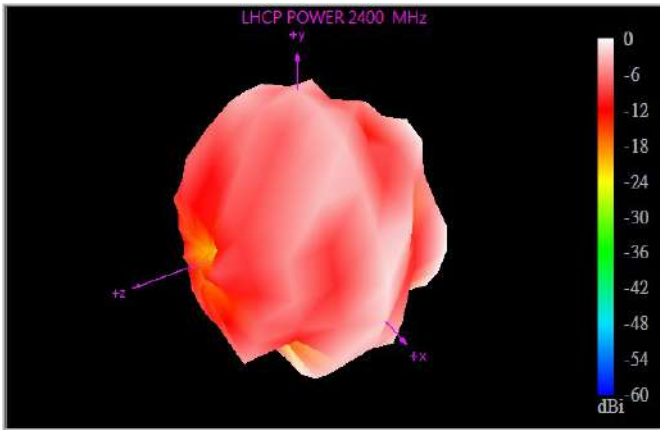
2300MHz:



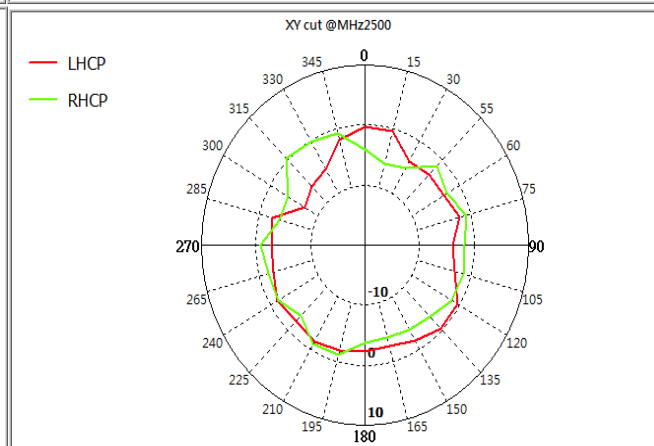
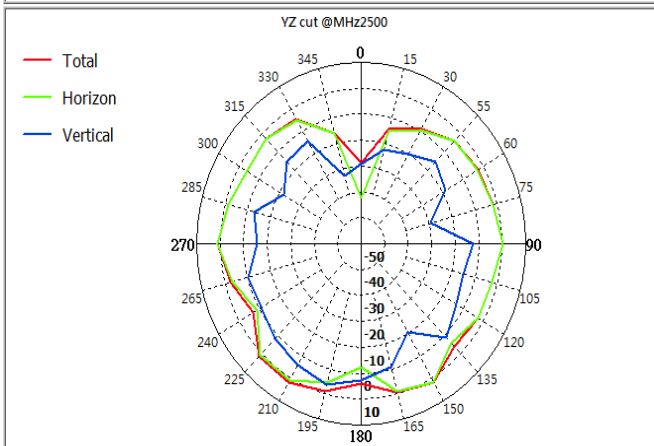
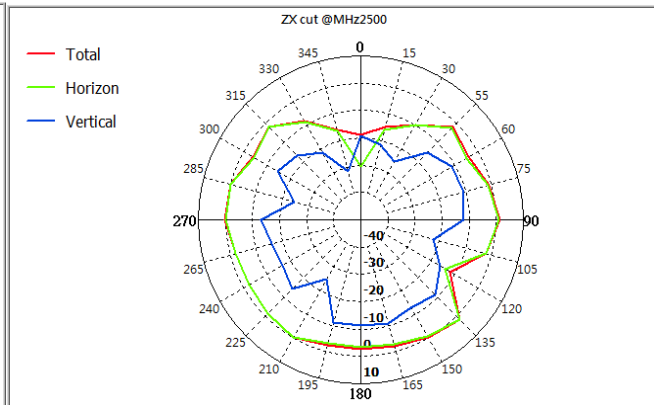
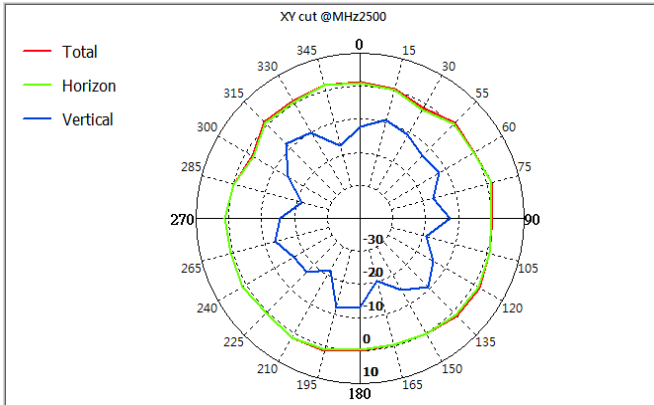


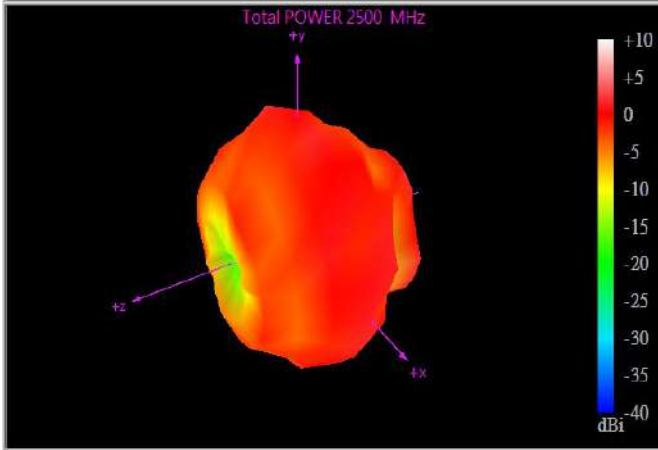
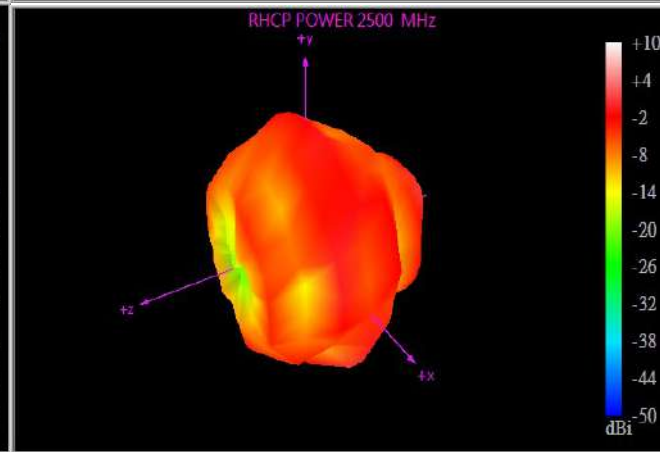
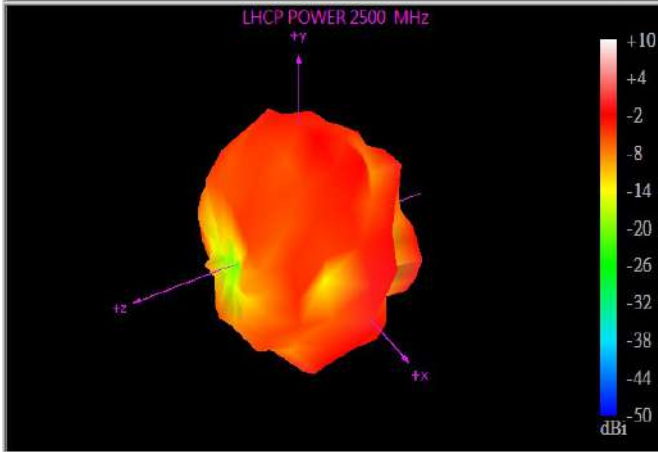
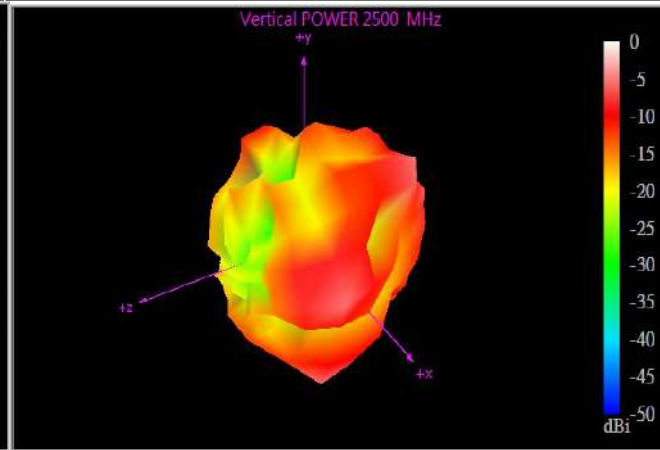
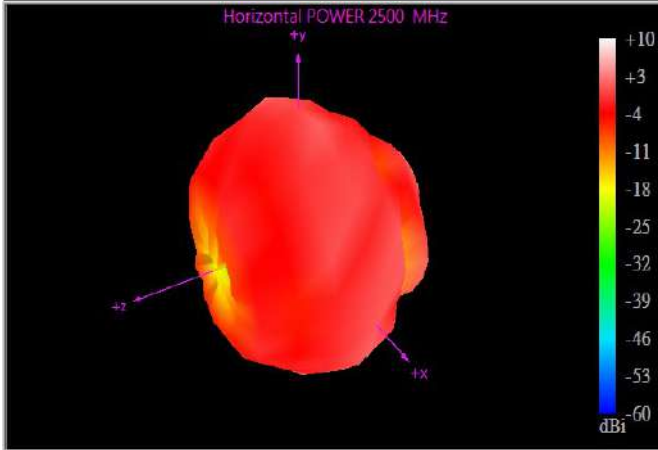
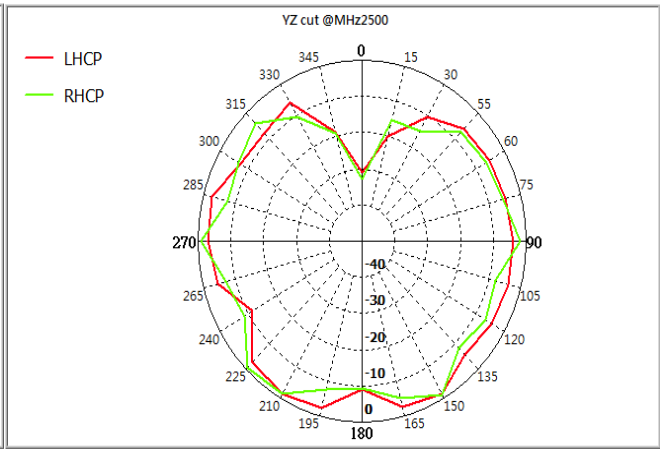
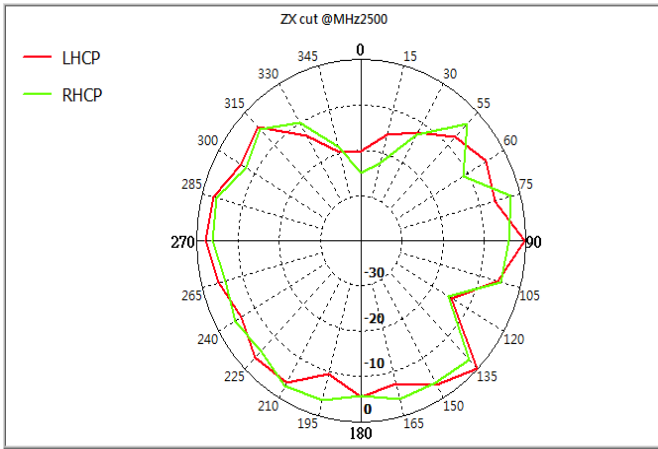
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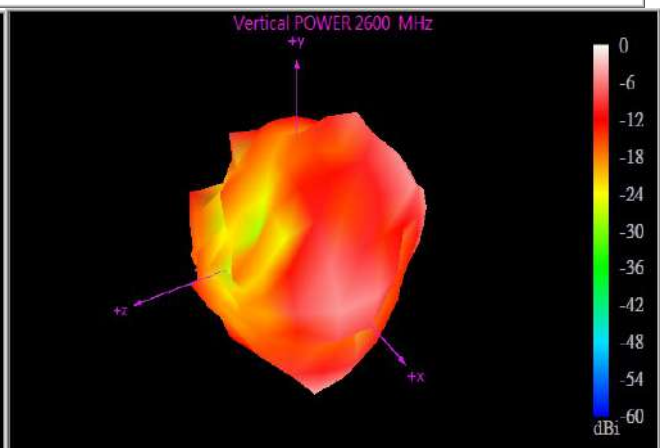
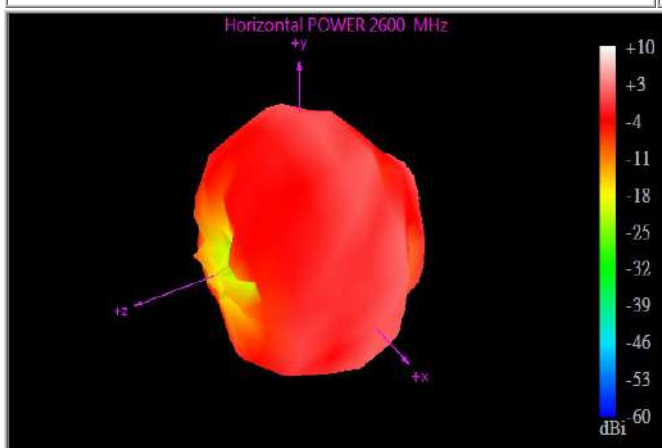
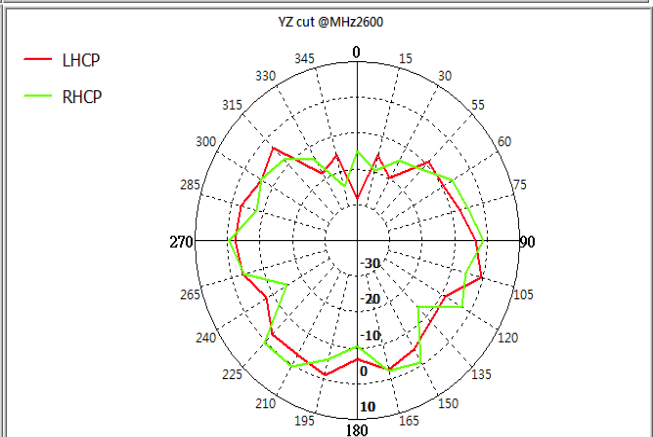
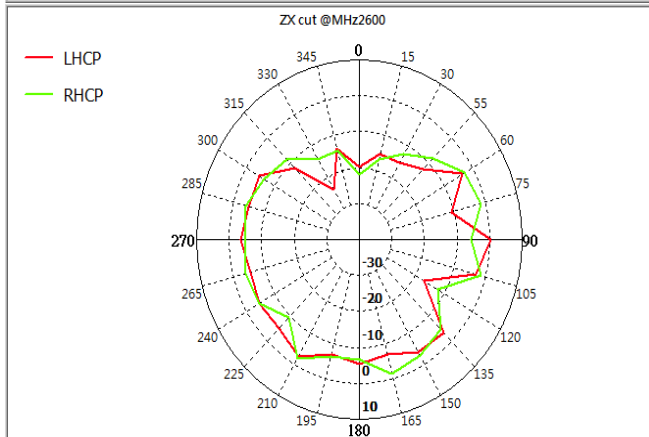
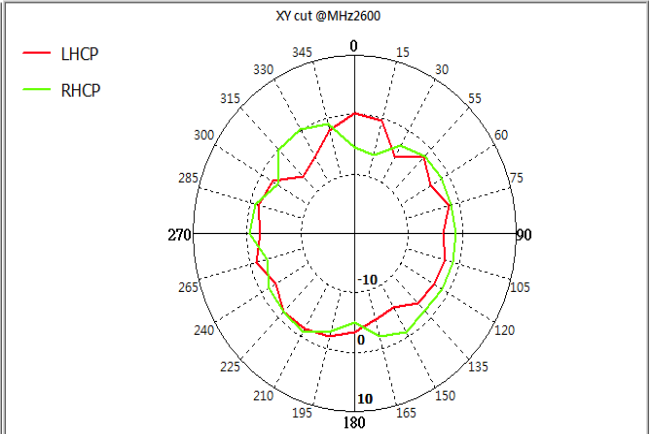
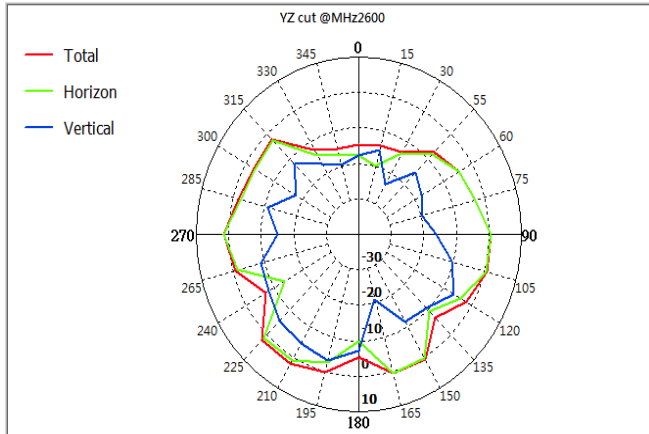
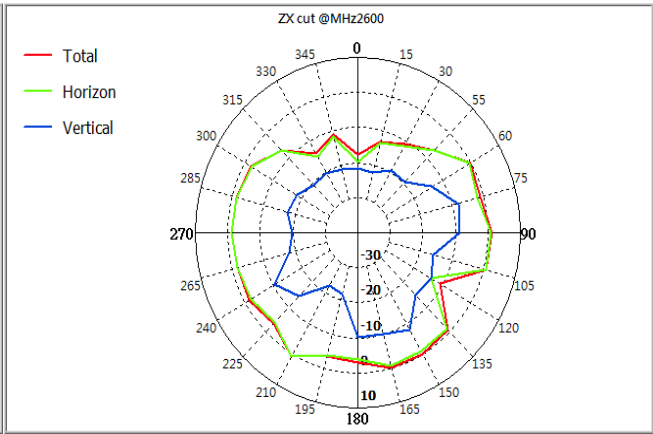
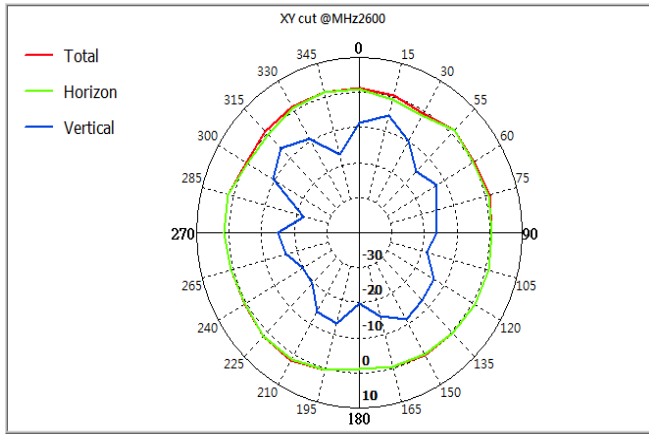


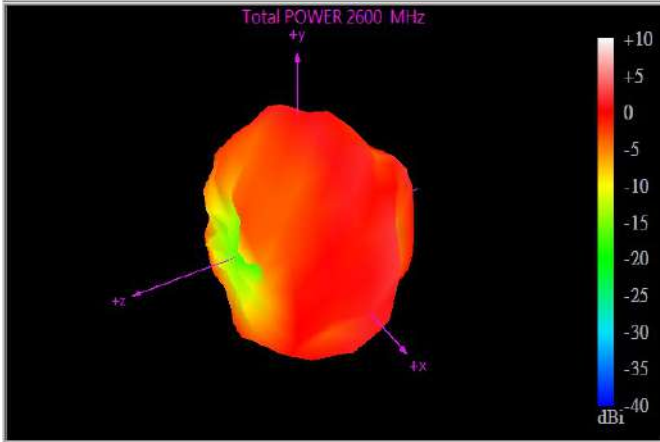
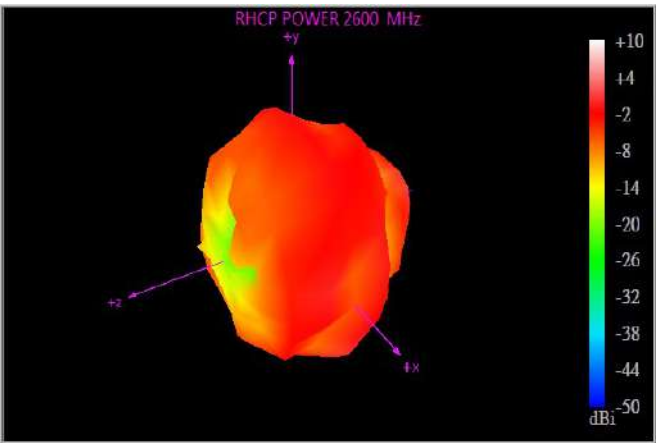
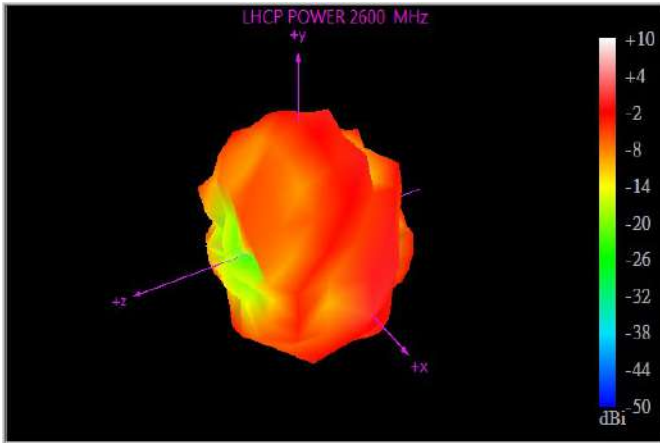
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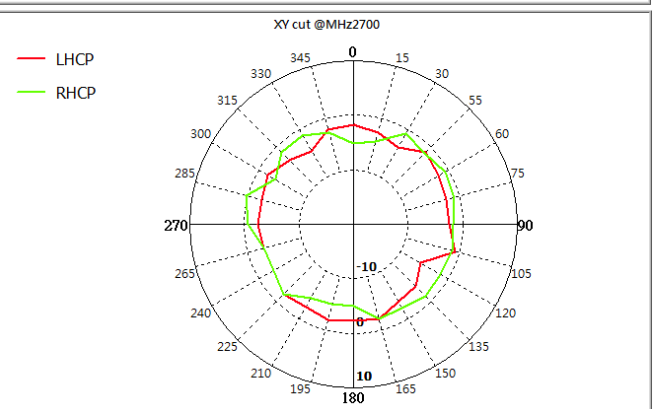
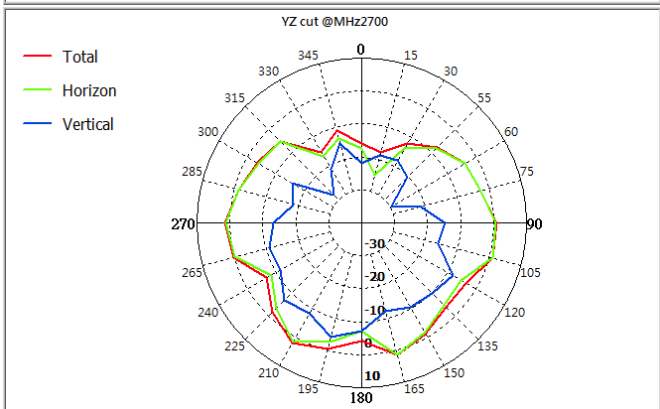
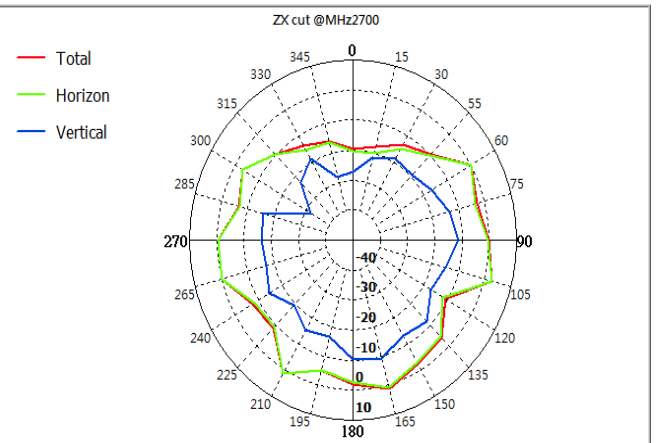
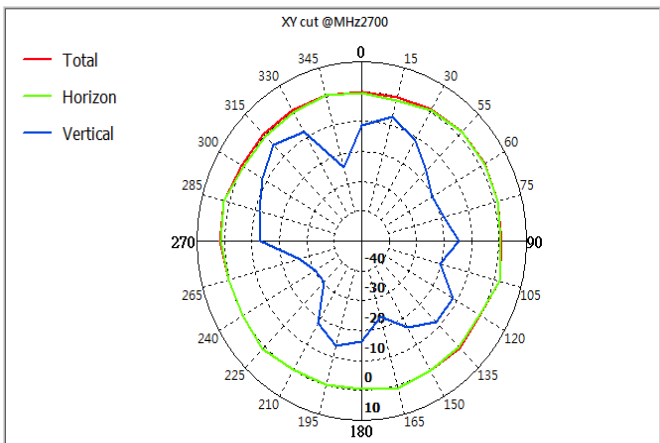


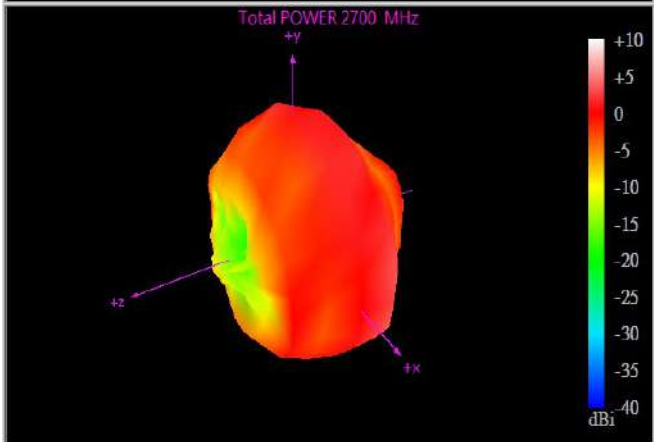
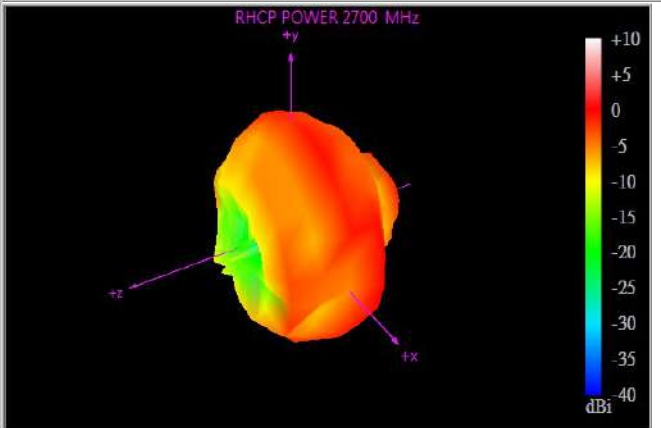
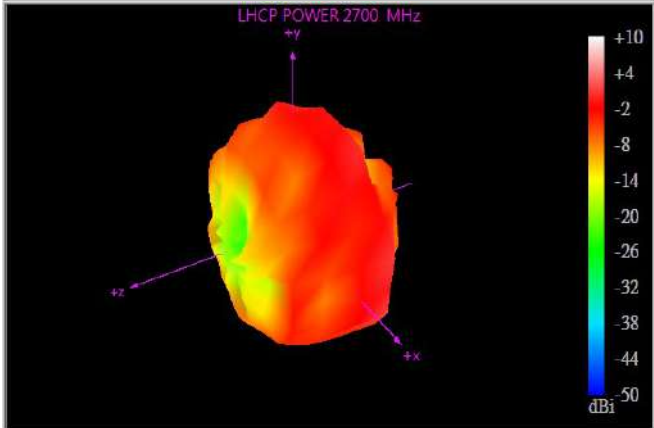
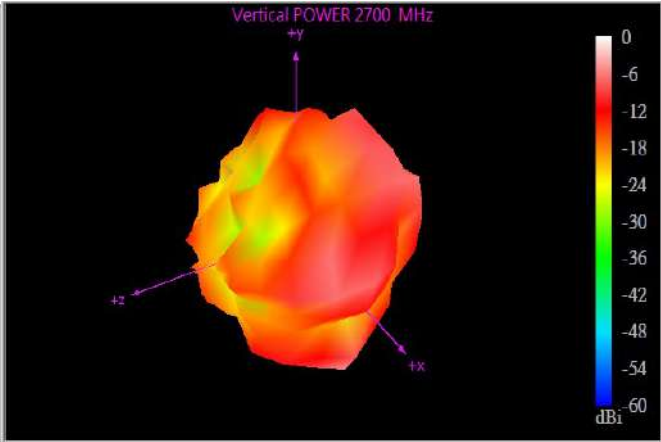
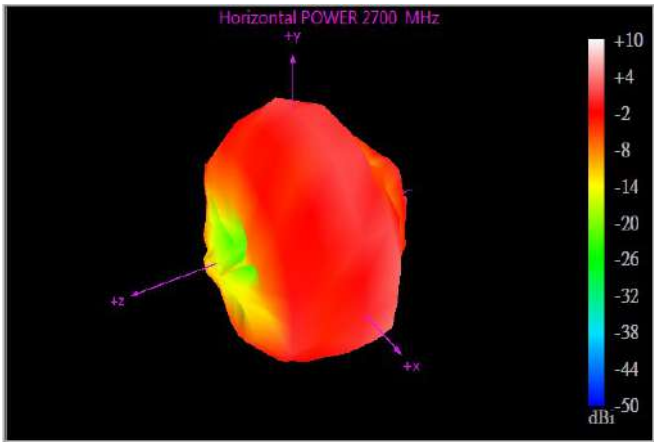
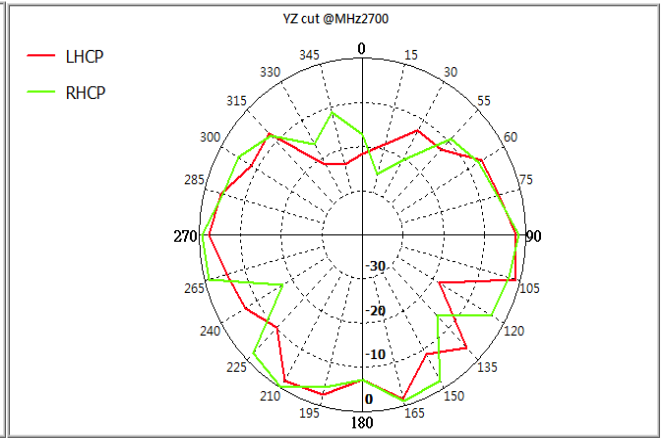
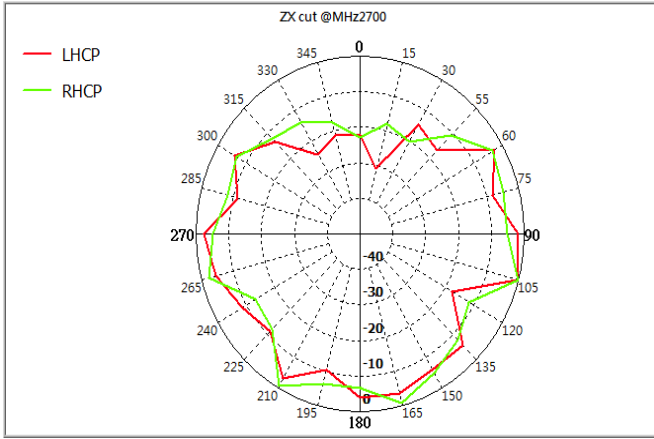
2600MHz:





2700Mhz:





3000MHz:

