



# GeTac\_UX10G3

## Antenna report for 5G module

Date of Report: 2023/ 06 / 05  
Department: WCB , Auden Techno Corp.



Antenna Vender:

## **Auden Techno Corp.**

**NO.19, LANE 772 HO-PING ROAD, PA-TE DIST, TAO-YUAN CITY, TAIWAN**

**(TEL) : 886-3-3631901**

**(FAX) : 886-3-3660619**

Antenna Type:

**PIFA**

Antenna Model:

**WWAN main Ant UX10G3**

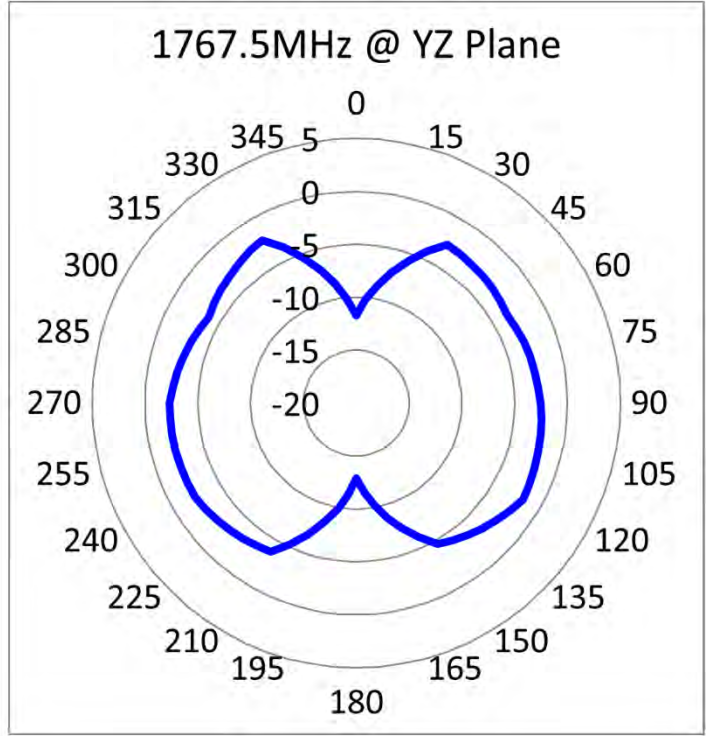
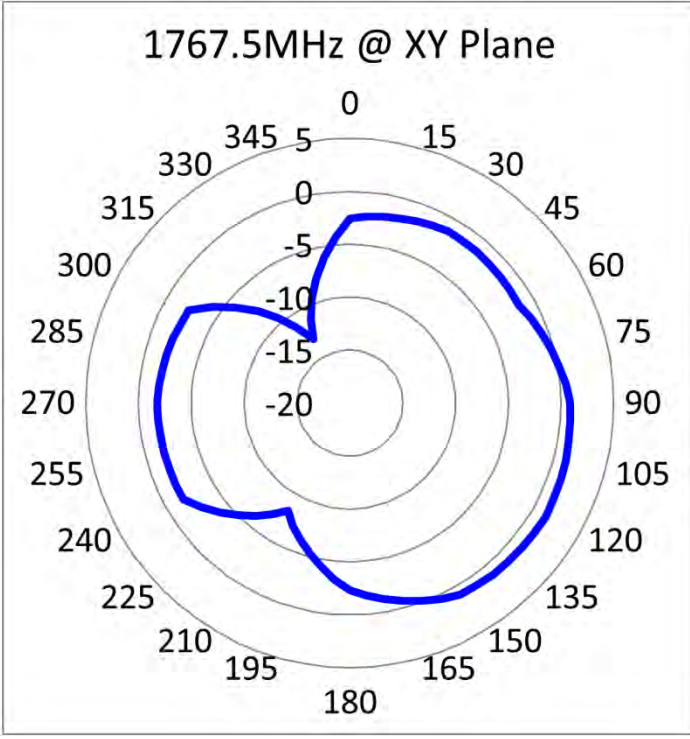
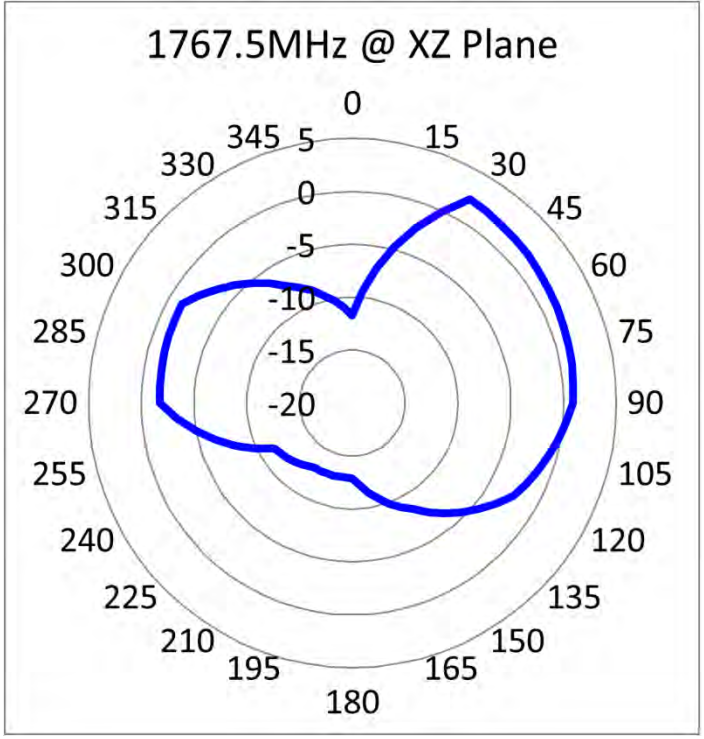
# Supported Frequency Bands (5G/LTE/3G)

| Band# | 5Ga<br>(n<band#<br>) | LTE<br>(B<band#>) | 3G<br>(Band<band#<br>) | Frequency (Tx)   | Frequency (Rx)       | freq.<br>(MHz) | Spec.<br>Eff.(dB) | Efficiency<br>Eff.(dB) | Efficiency<br>Eff.(%) | Peak Gain with<br>cable loss | Cable Loss (dB) |
|-------|----------------------|-------------------|------------------------|------------------|----------------------|----------------|-------------------|------------------------|-----------------------|------------------------------|-----------------|
| 1     | Y                    | Y                 | Y                      | 1920–1980 MHz    | 2110–2170 MHz        | 1950           | -2.6              | -1.8                   | 66%                   | 2.4                          | -0.20           |
| 2     | Y                    | Y                 | Y                      | 1850–1910 MHz    | 1930–1990 MHz        | 1880           | -2.6              | -1.1                   | 78%                   | 2.5                          | -0.19           |
| 3     | Y                    | Y                 | /                      | 1710–1785 MHz    | 1805–1880 MHz        | 1747.5         | -2.6              | -1.3                   | 74%                   | 2.8                          | -0.18           |
| 4     | /                    | Y                 | Y                      | 1710–1755 MHz    | 2110–2155 MHz        | 1710           | -2.6              | -1.9                   | 64%                   | 3.0                          | -0.17           |
| 5     | Y                    | Y                 | Y                      | 824–849 MHz      | 869–894 MHz          | 836.5          | -2.6              | -2.4                   | 57%                   | 0.8                          | -0.13           |
| 6     | /                    | /                 | Y                      | 830–840 MHz      | 875–885 MHz          | 830            | -2.6              | -2.5                   | 56%                   | 1                            | -0.12           |
| 7     | /                    | Y                 | /                      | 2500–2570 MHz    | 2620–2690 MHz        | 2570           | -2.6              | -2.6                   | 55%                   | 2.8                          | -0.21           |
| 8     | /                    | Y                 | Y                      | 880–915 MHz      | 925–960 MHz          | 880            | -2.6              | -3.2                   | 48%                   | -1                           | -0.13           |
| 9     | /                    | /                 | Y                      | 1749.9–1784.9MHz | 1844.9–1879.9<br>MHz | 1767.5         | -2.5              | -1.7                   | 68%                   | 2.9                          | -0.18           |
| 12    | /                    | Y                 | /                      | 699–716 MHz      | 729–746 MHz          | 707.5          | -2.6              | -1.3                   | 74%                   | 1.8                          | -0.11           |
| 13    | /                    | Y                 | /                      | 777–787 MHz      | 746–756 MHz          | 782            | -2.6              | -1.6                   | 69%                   | 1.1                          | -0.12           |
| 14    | /                    | Y                 | /                      | 788–798 MHz      | 758–768 MHz          | 793            | -2.6              | -2                     | 63%                   | 1.1                          | -0.12           |
| 17    | /                    | Y                 | /                      | 704–716 MHz      | 734–746 MHz          | 710            | -2.5              | -1.3                   | 74%                   | 1.7                          | -0.11           |
| 18    | /                    | Y                 | /                      | 815–830 MHz      | 860–875 MHz          | 815            | -2.6              | -2.5                   | 56%                   | 1                            | -0.12           |
| 19    | /                    | Y                 | Y                      | 830–845 MHz      | 875–890 MHz          | 830            | -2.6              | -2.5                   | 56%                   | 1                            | -0.12           |
| 20    | /                    | Y                 | /                      | 832–862 MHz      | 791–821 MHz          | 832            | -2.6              | -2.5                   | 56%                   | 1                            | -0.13           |
| 25    | /                    | Y                 | /                      | 1850–1915 MHz    | 1930–1995 MHz        | 1915           | -2.5              | -1.8                   | 66%                   | 2.4                          | -0.20           |
| 26    | /                    | Y                 | /                      | 814–849 MHz      | 859–894 MHz          | 831.5          | -2.6              | -2.5                   | 56%                   | 1                            | -0.13           |
| 28    | Y                    | Y                 | /                      | 703–748 MHz      | 758–803 MHz          | 725.5          | -2.5              | -1.1                   | 77%                   | 1.2                          | -0.11           |
| 29    | /                    | Y                 | /                      | n/a              | 717–728 MHz          | 722.5          | -2.6              | -1.3                   | 75%                   | 1.1                          | -0.11           |

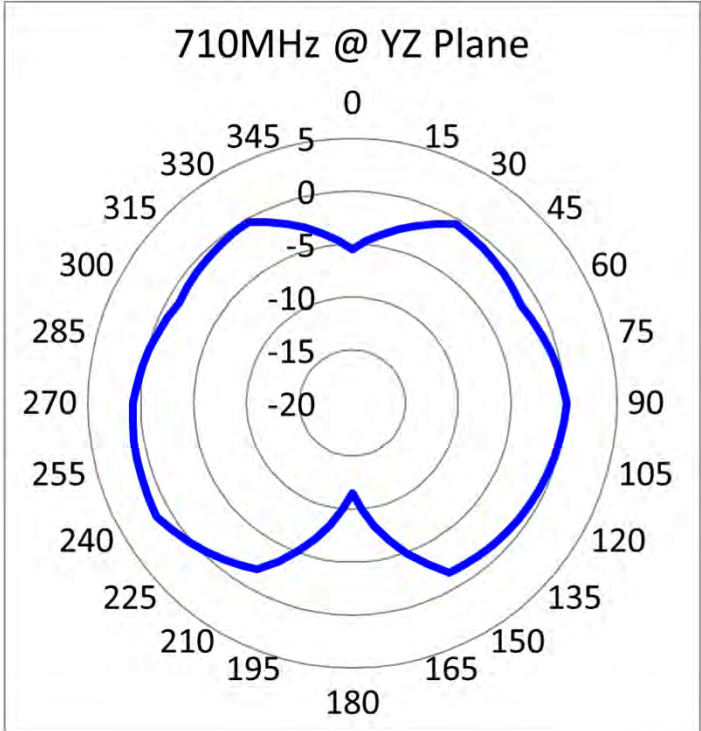
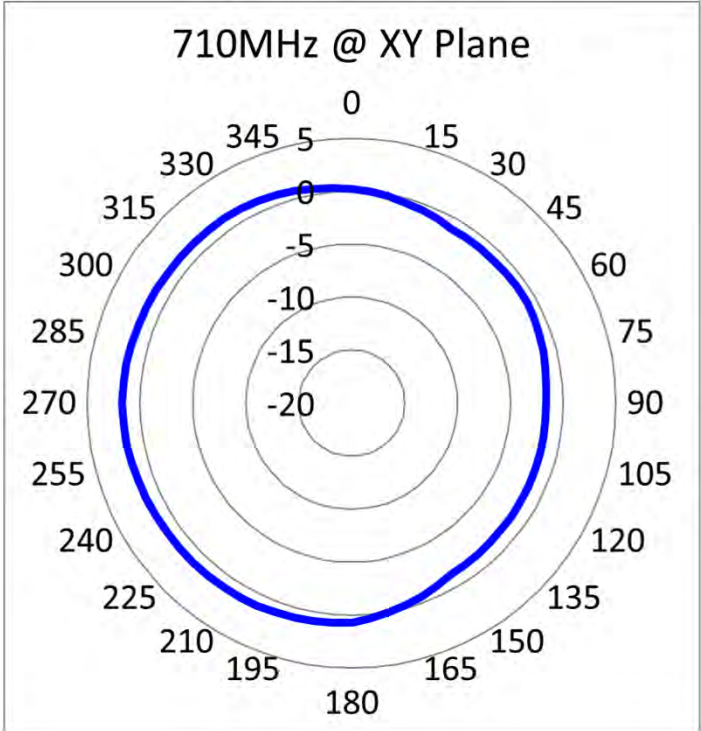
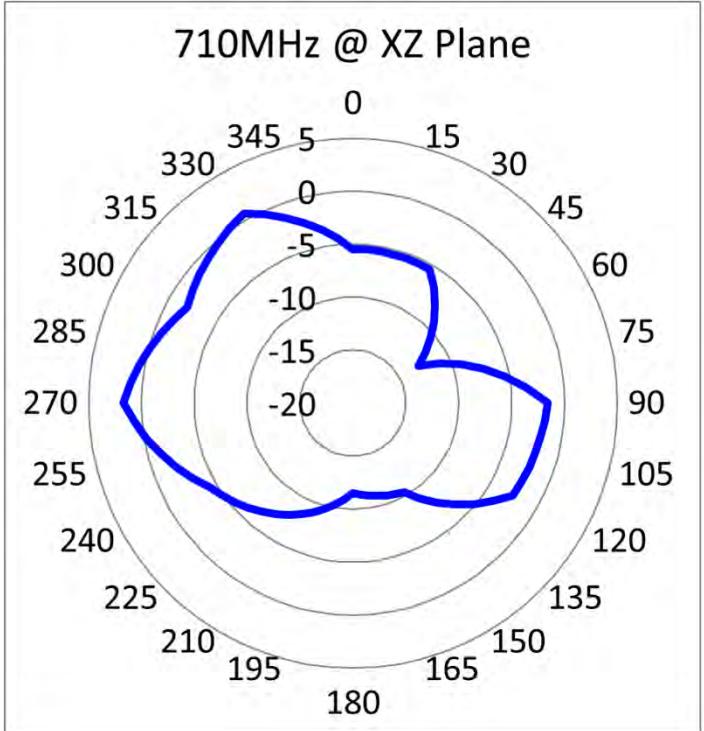
# Supported Frequency Bands (5G/LTE/3G)

| Band#           | 5Ga<br>(n<band#) | LTE<br>(B<band#>) | 3G<br>(Band<band#) | Frequency (Tx)   | Frequency (Rx)         | freq.<br>(MHz) | Spec.<br>Eff.(dB) | Efficiency<br>Eff.(dB) | Efficiency<br>Eff.(%) | Peak Gain with<br>cable loss | Cable Loss (dB) |
|-----------------|------------------|-------------------|--------------------|--|------------------------|----------------|-------------------|------------------------|-----------------------|------------------------------|-----------------|
| 30              | /                | Y                 | /                  | 2305–2315 MHz<br>Note: B30 Tx is disabled <sup>c</sup> | 2350–2360 MHz          | 2310           | -2.6              | -1.9                   | 64%                   | 0.3                          | -0.19           |
| 32              | /                | Y                 | /                  | n/a  | 1452–1496 MHz          | 1474           |                   | -7.4                   | 18%                   | -3.6                         | -0.15           |
| 34              | /                | Y                 | /                  | 2010–2025 MHz (TDD)                                    |                        | 2017.5         |                   | -2.2                   | 60%                   | 2.7                          | -0.16           |
| 38              | /                | Y                 | /                  | 2570–2620 MHz (TDD)                                    |                        | 2595           | -2.6              | -2.7                   | 54%                   | 2.8                          | -0.21           |
| 39              | /                | Y                 | /                  | 1880–1920 MHz (TDD)                                    |                        | 1900           | -2.5              | -1.9                   | 65%                   | 2.3                          | -0.19           |
| 40              | /                | Y                 | /                  | 2300–2400 MHz (TDD)                                    |                        | 2350           | -2.5              | -2.7                   | 54%                   | 2.5                          | -0.19           |
| 41              | Y                | Y                 | /                  | 2496–2690 MHz (TDD)                                    |                        | 2593           | -2.6              | -2.7                   | 54%                   | 2.8                          | -0.21           |
| 42              | /                | Y                 | /                  | 3400–3600 MHz (TDD)                                    |                        | 3500           | -2.6              | -2.2                   | 60%                   | 2.1                          | -0.25           |
| 46 <sup>d</sup> | /                | Y                 | /                  | n/a  | 5150–5925 MHz<br>(TDD) | 5537.5         | -2.6              | -2.4                   | 58%                   | -0.5                         | -0.32           |
| 48              | Y <sup>b</sup>   | Y                 | /                  | 3550–3700 MHz (TDD)                                    |                        | 3625           | -2.6              | -2.7                   | 54%                   | 0.5                          | -0.26           |
| 66              | Y                | Y                 | /                  | 1710–1780 MHz  | 2110–2200 MHz          | 1745           | -2.6              | -1.3                   | 74%                   | 2.7                          | -0.18           |
| 71              | Y                | Y                 | /                  | 663–698  | 617–652                | 634.5          | -5.0              | -5.4                   | 29%                   | -2.5                         | -0.10           |
| 77              | Y                | /                 | /                  | 3300–4200 MHz (TDD)                                    |                        | 3350           | -2.6              | -2.9                   | 51%                   | 2.0                          | -0.23           |
| 78              | Y                | /                 | /                  | 3300–3800 MHz (TDD)                                    |                        | 3550           | -2.6              | -2.2                   | 60%                   | 2.1                          | -0.25           |
| 79              | Y                | /                 | /                  | 4400–5000 MHz (TDD)                                    |                        | 4700           | -2.6              | -1.7                   | 68%                   | 2.8                          | -0.30           |

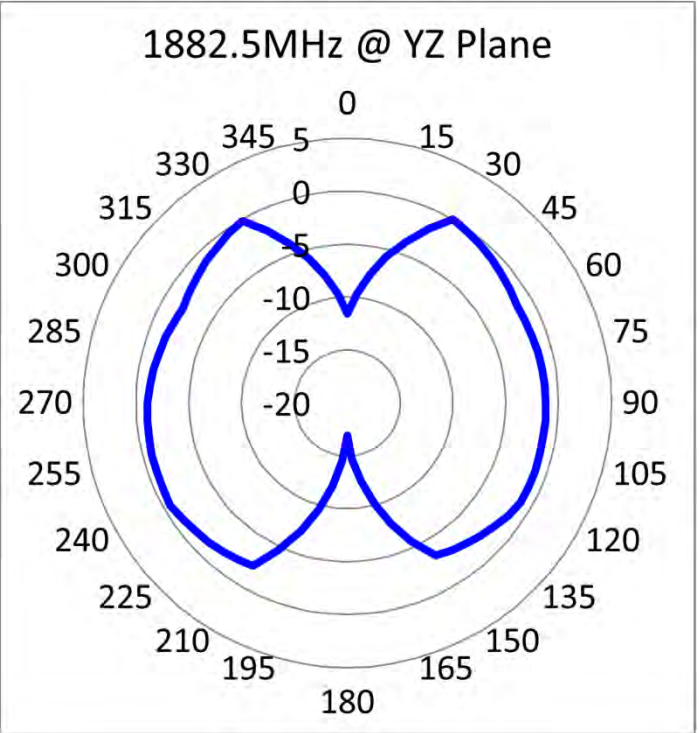
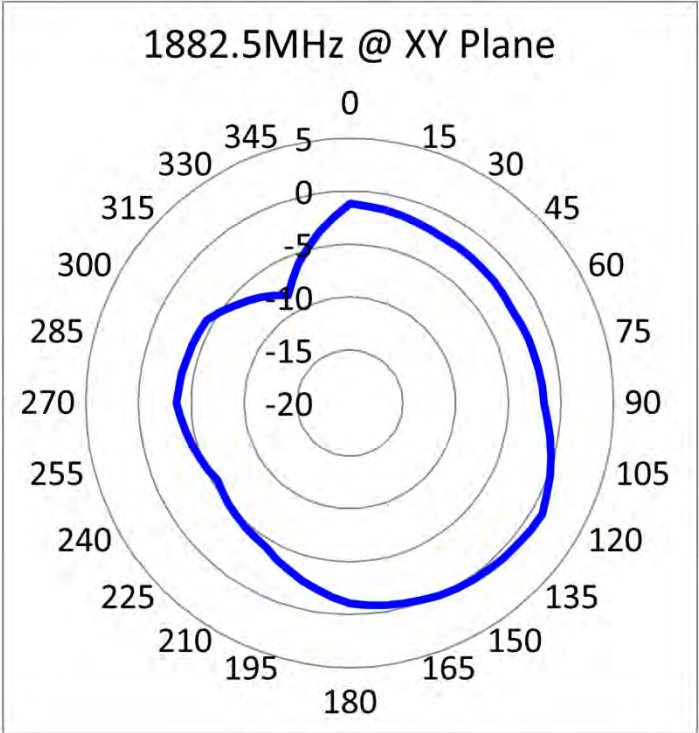
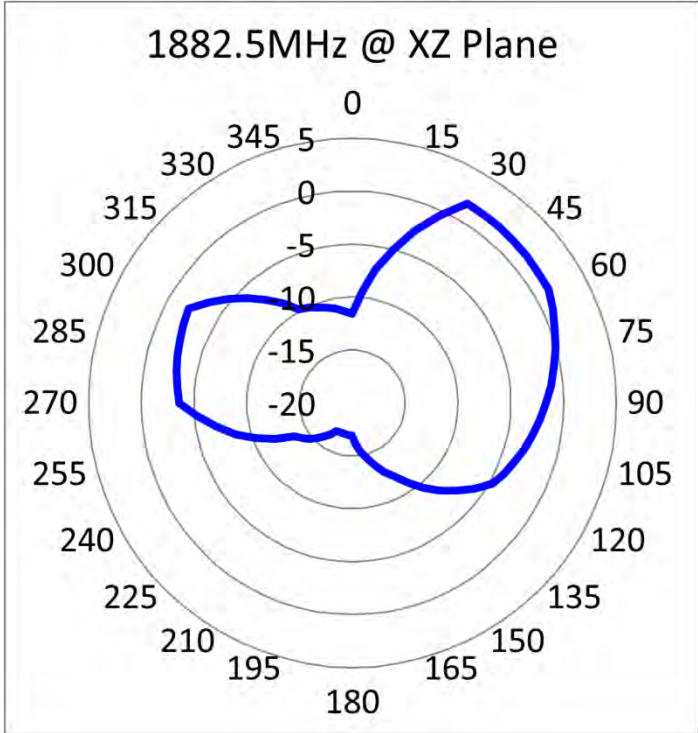
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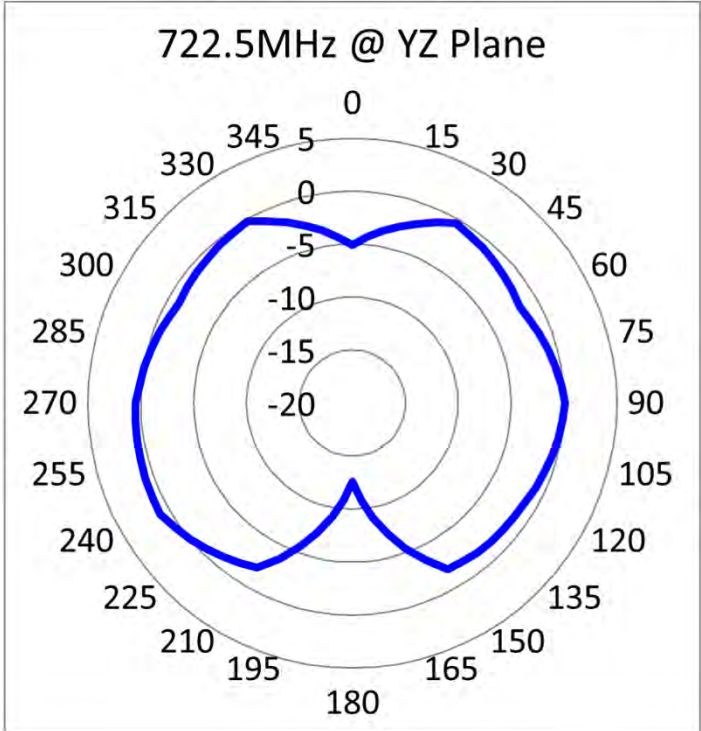
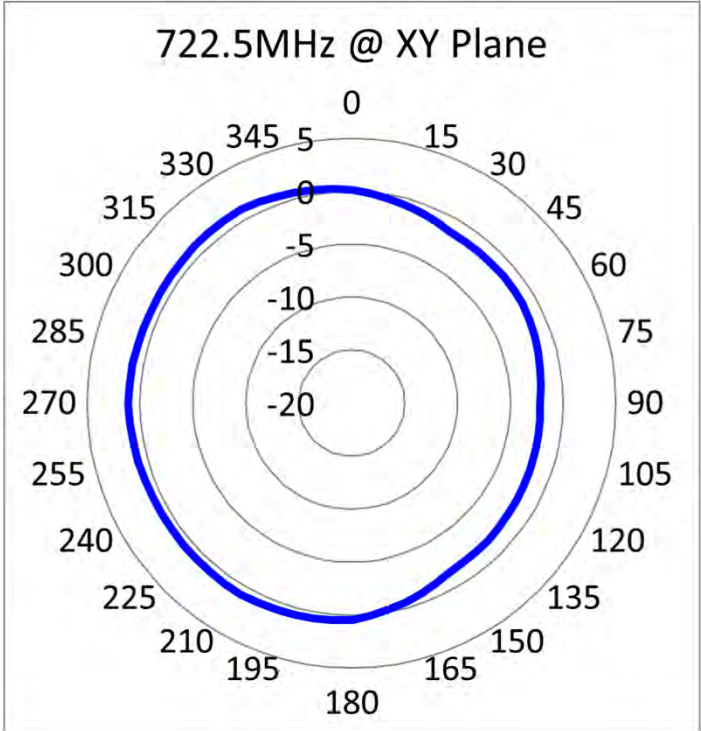
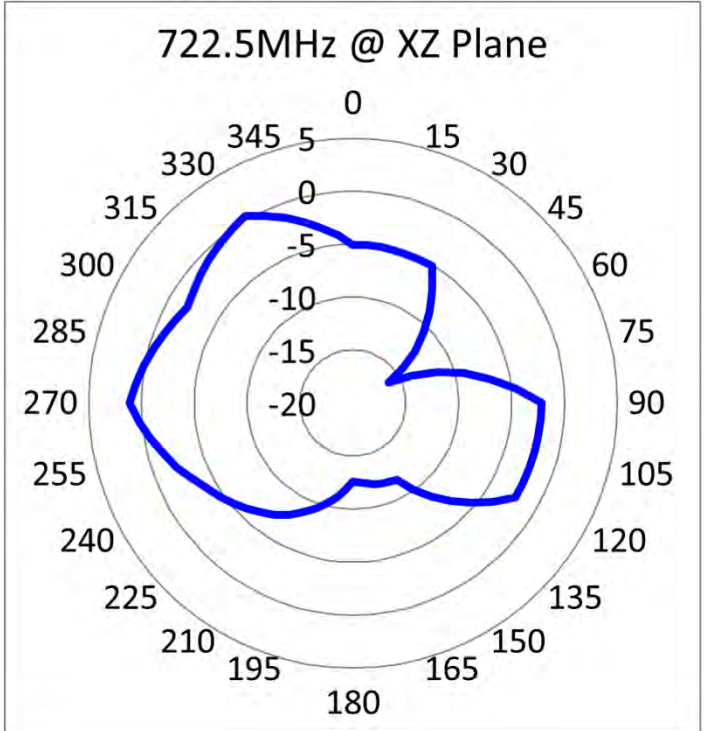
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# LTE Main Antenna 2D Radiation Pattern 1882.5 MHz (LTE)

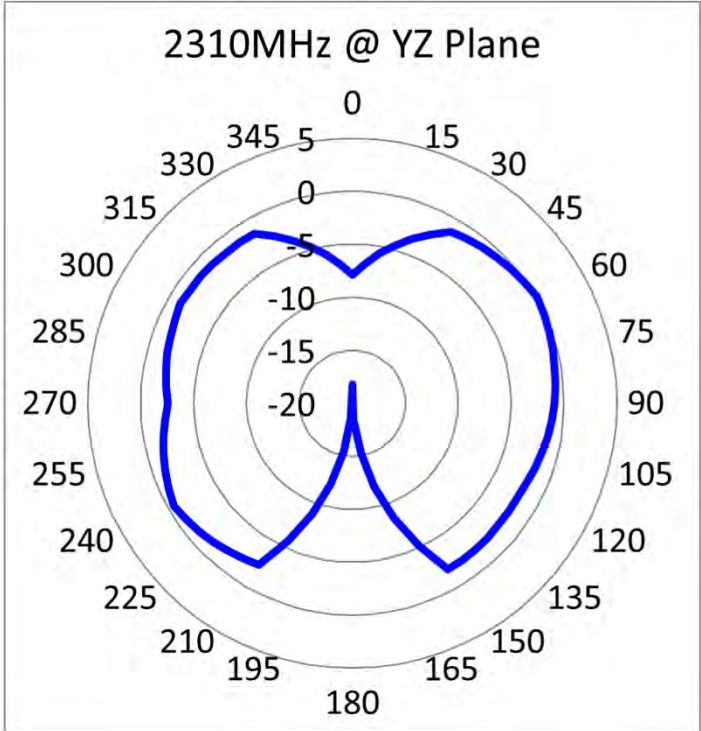
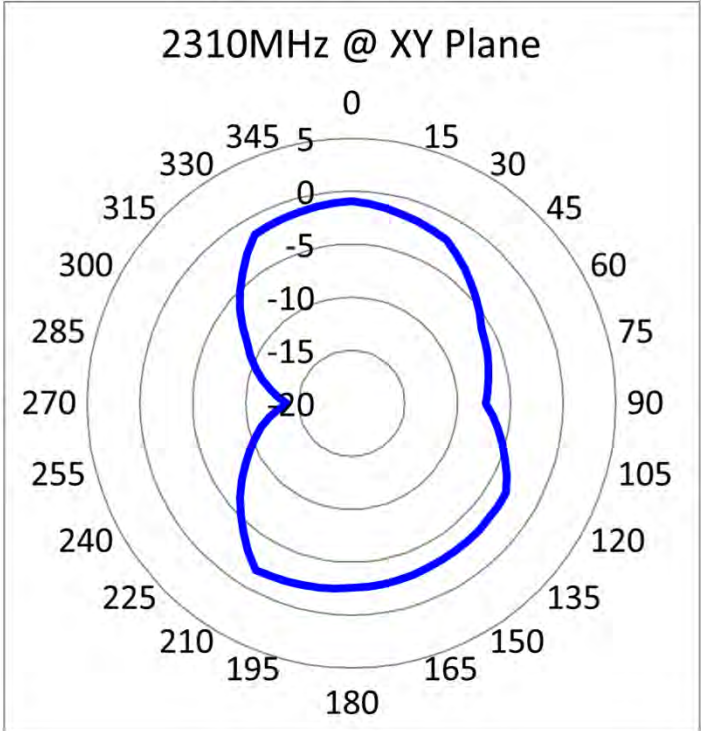
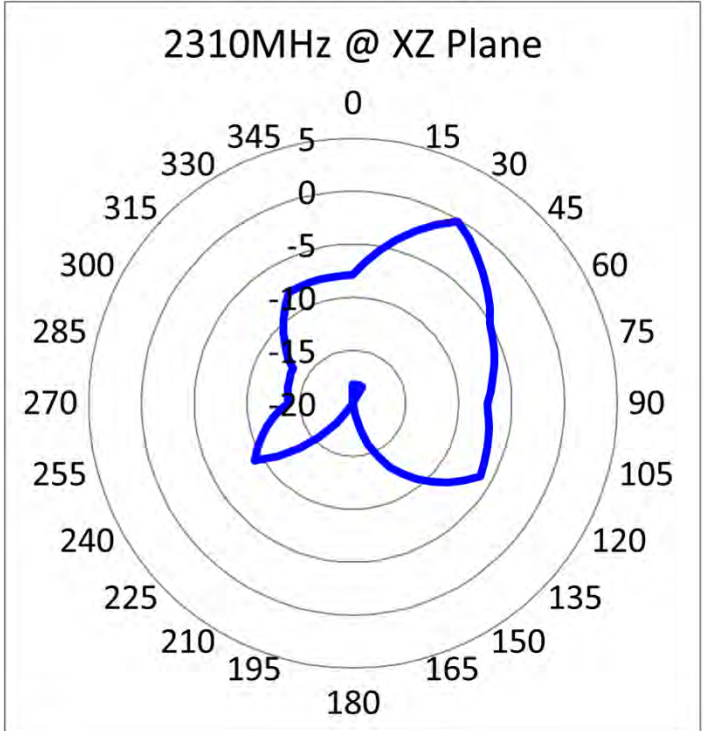


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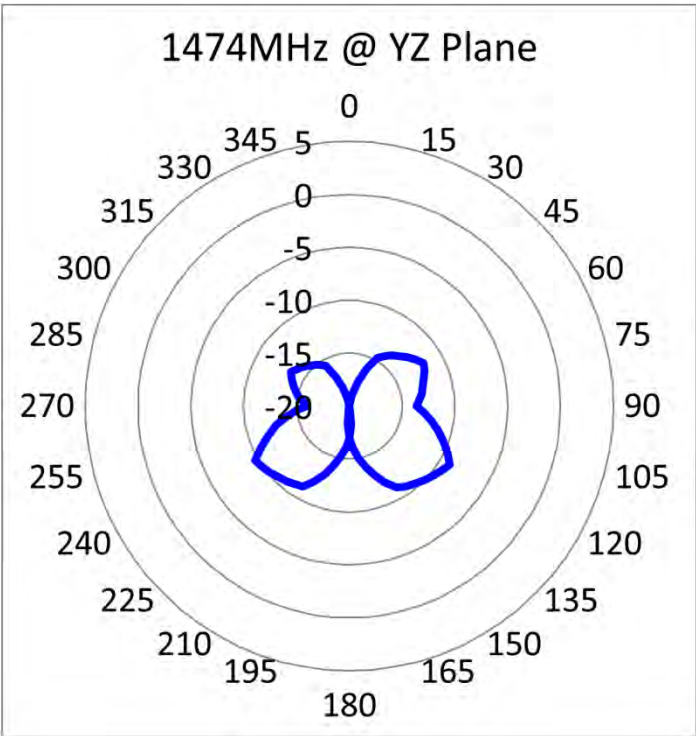
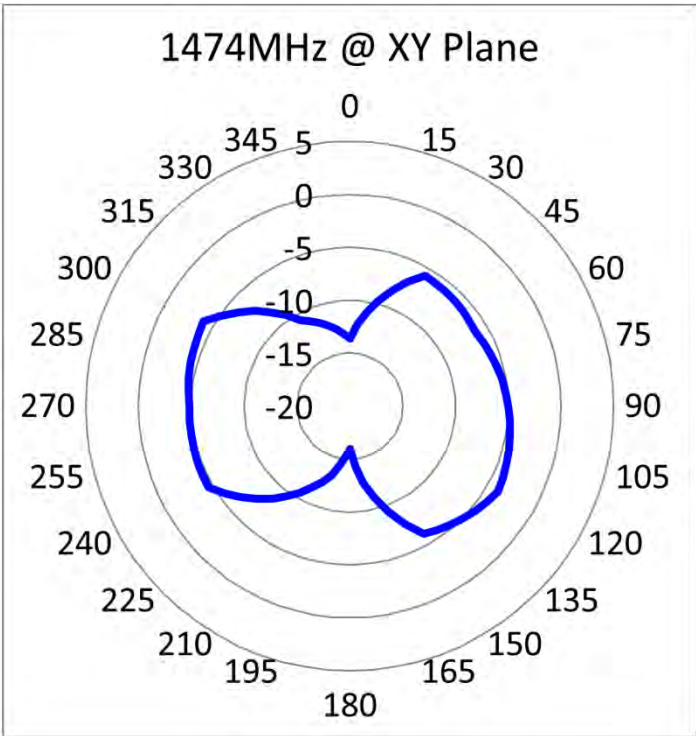
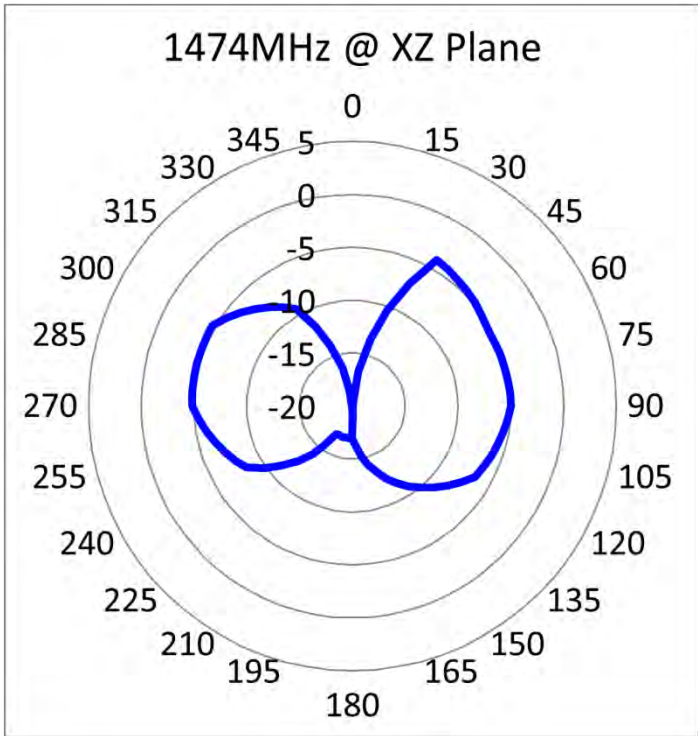




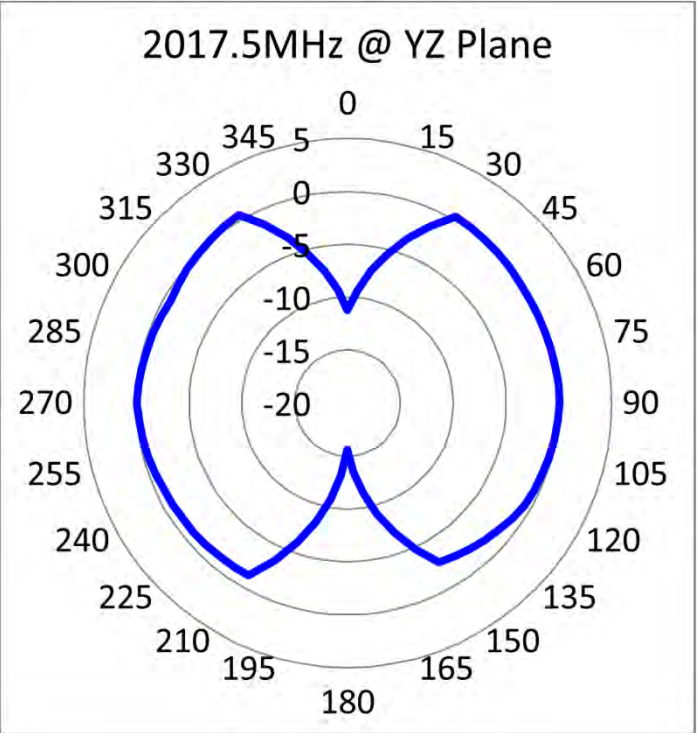
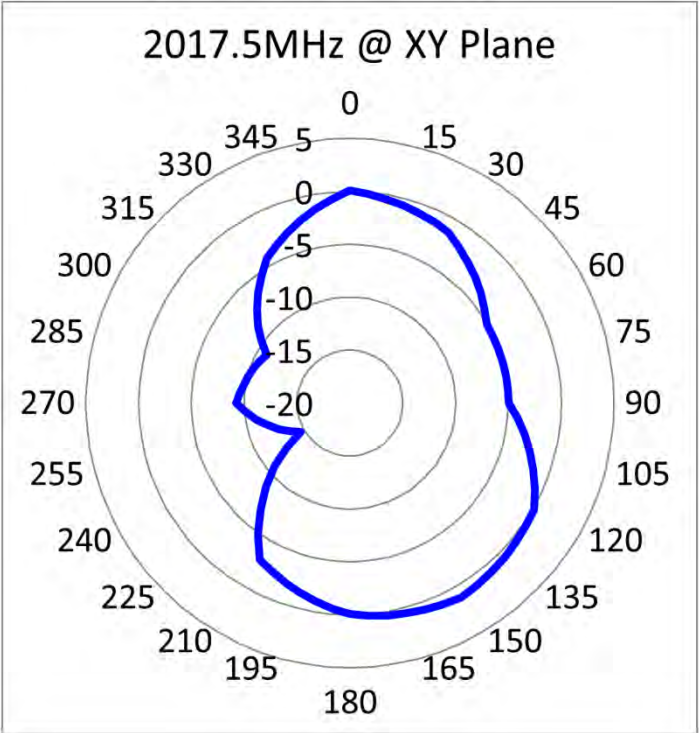
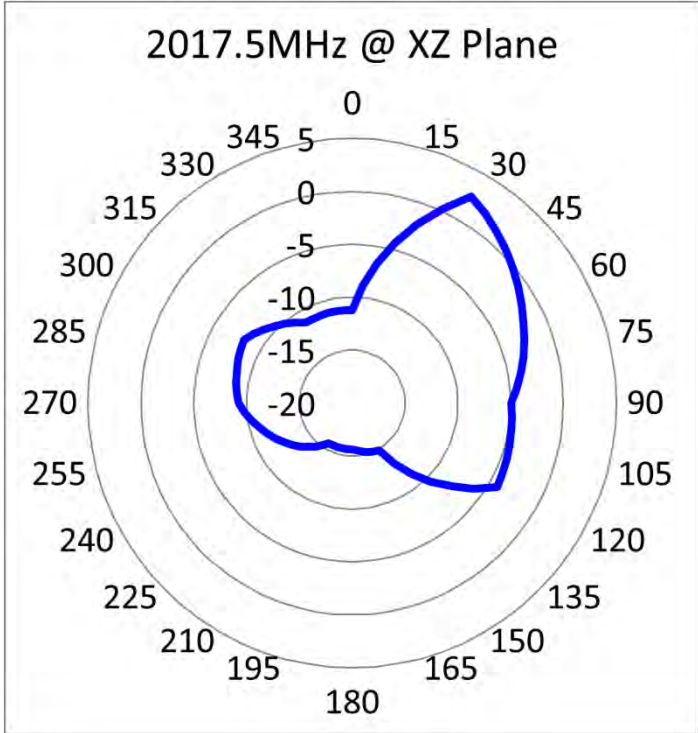
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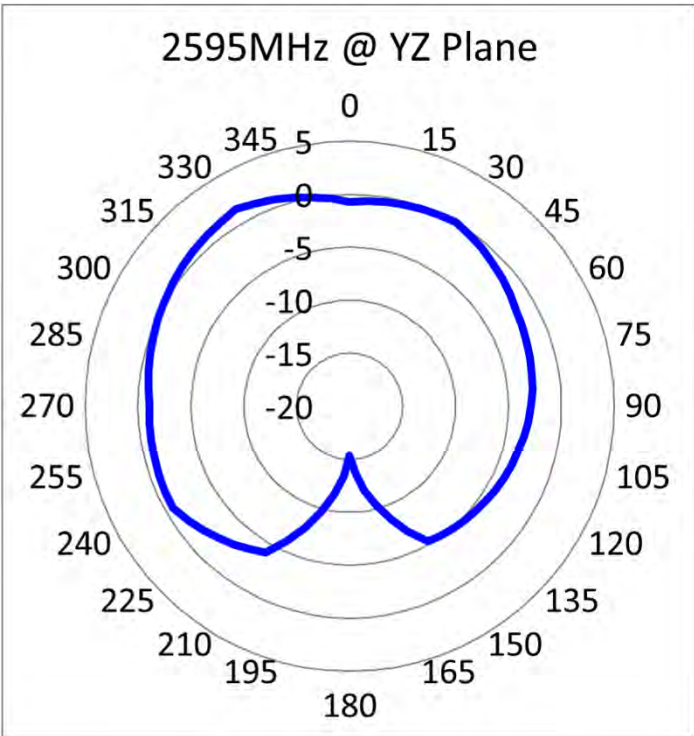
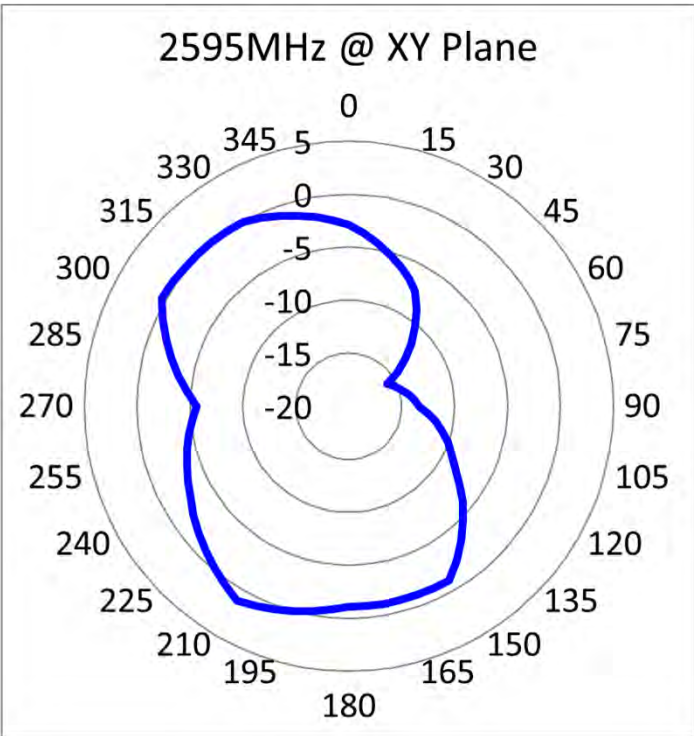
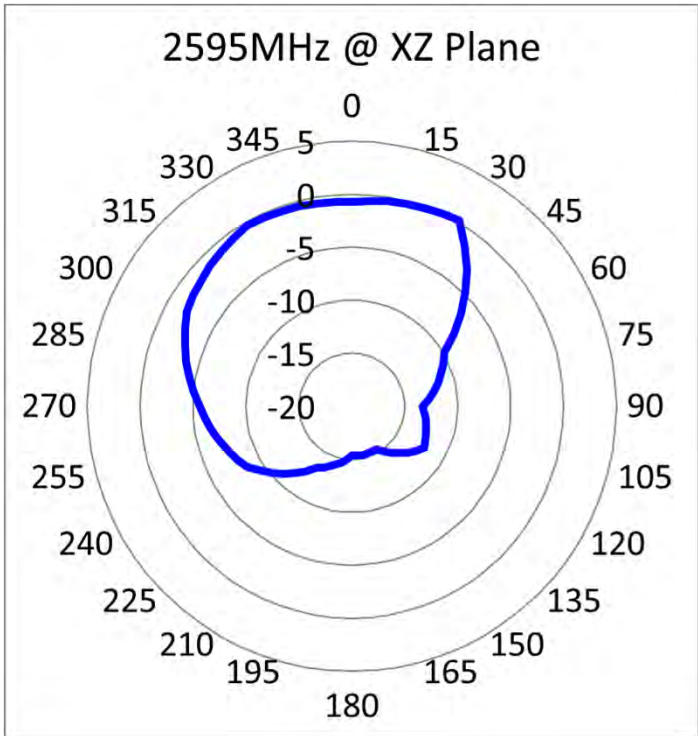
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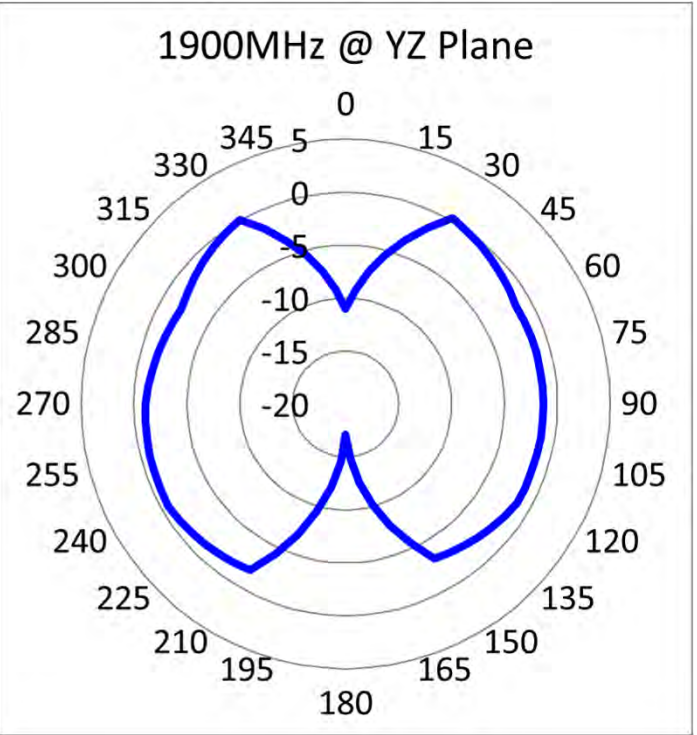
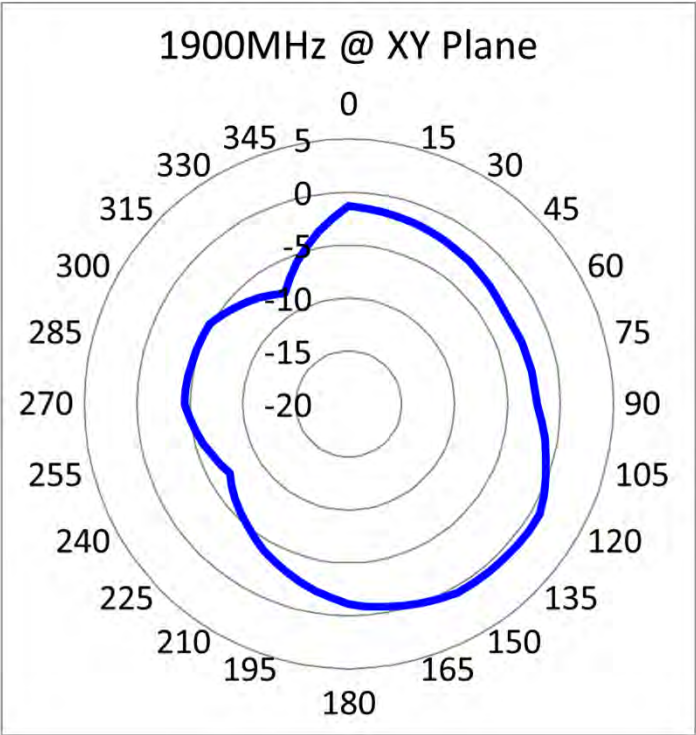
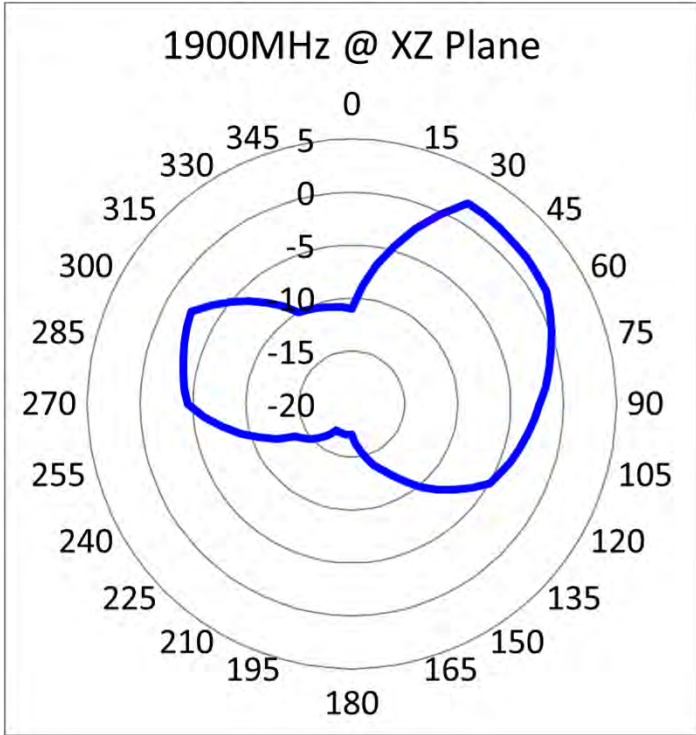
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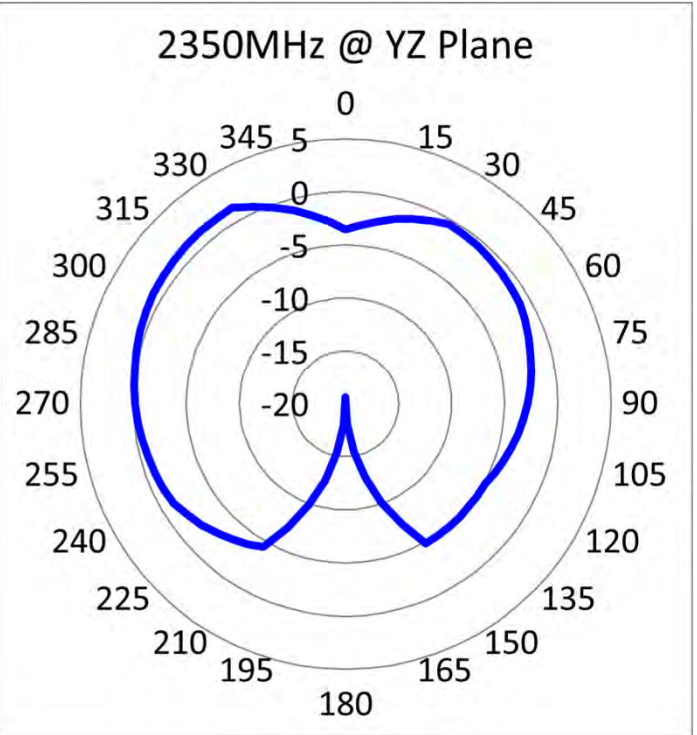
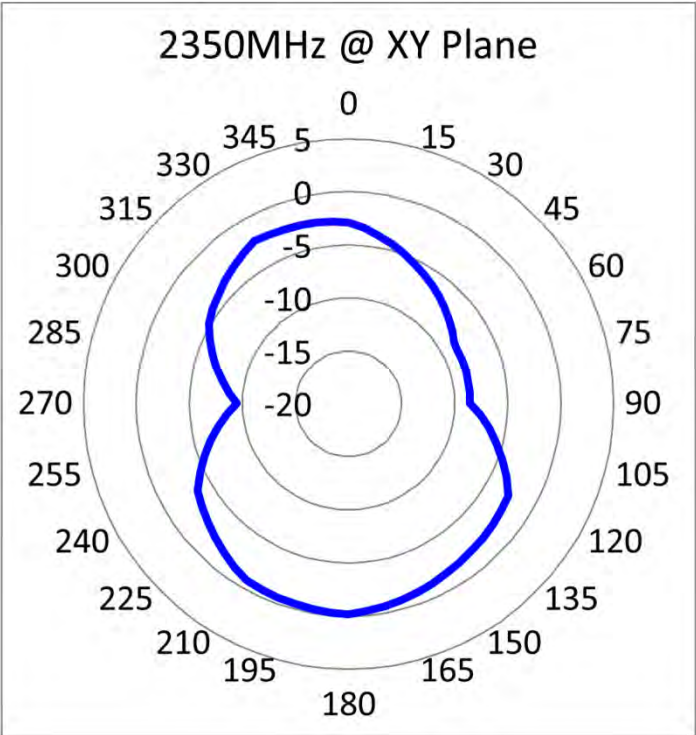
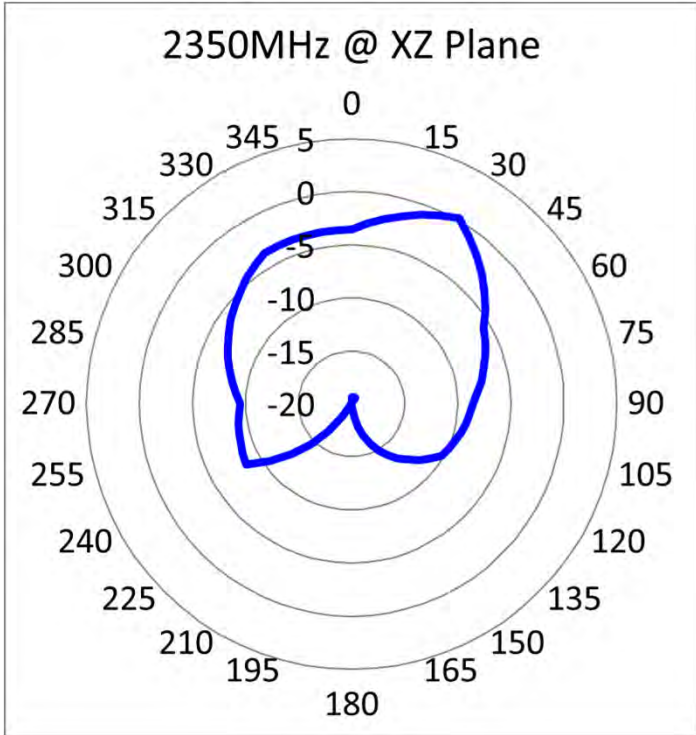
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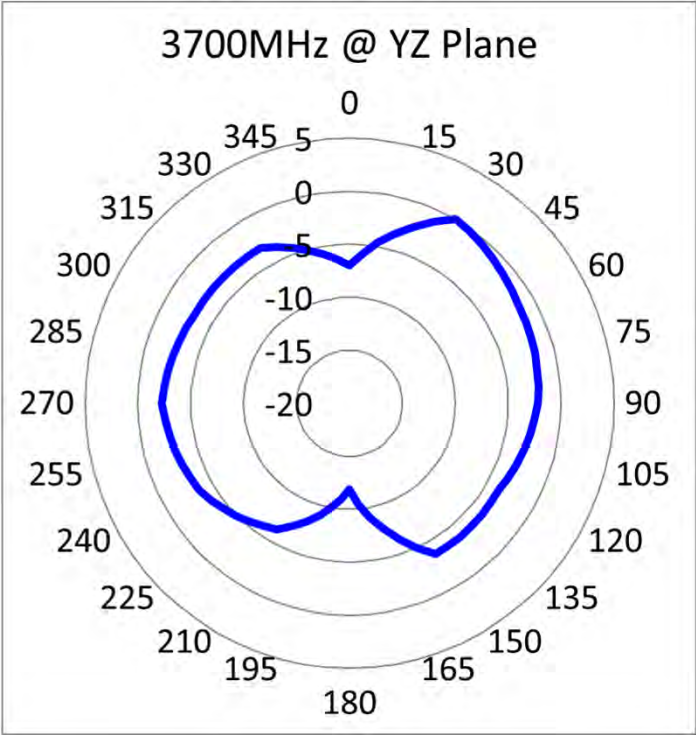
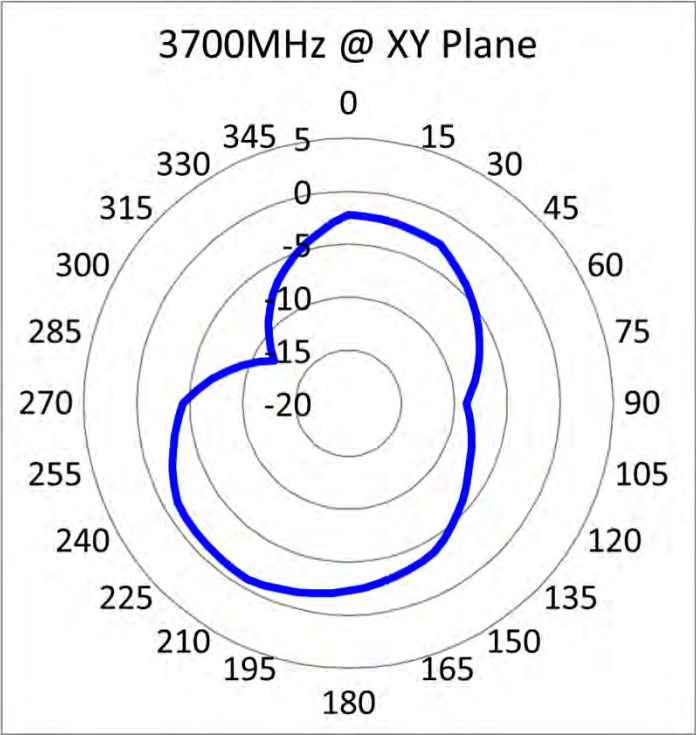
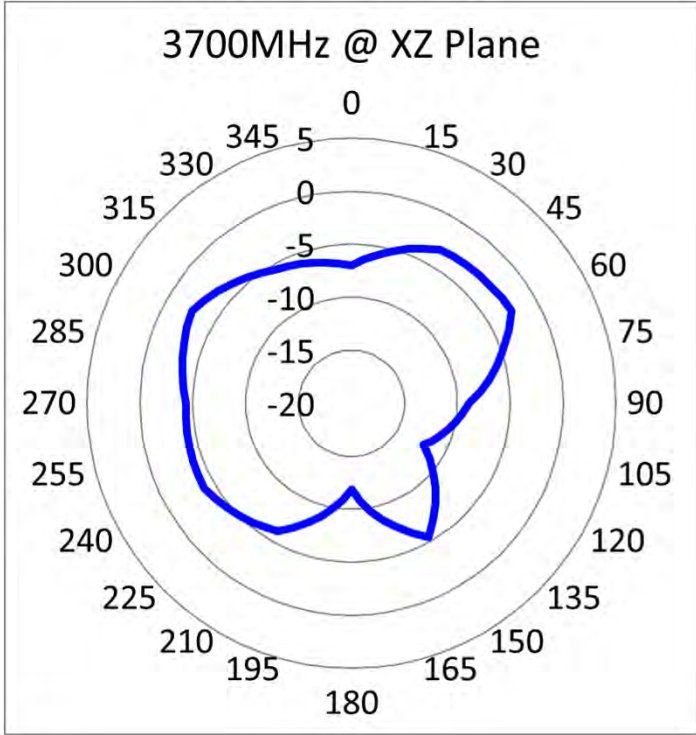
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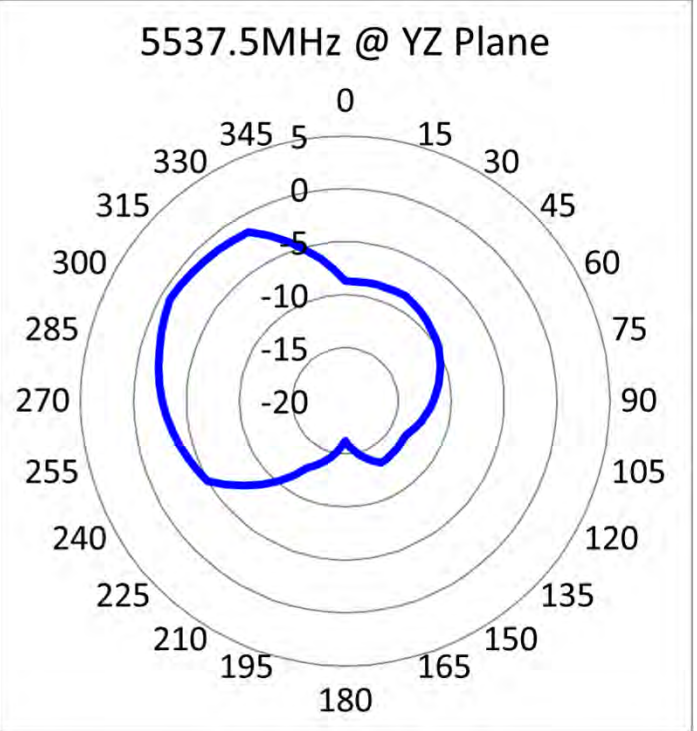
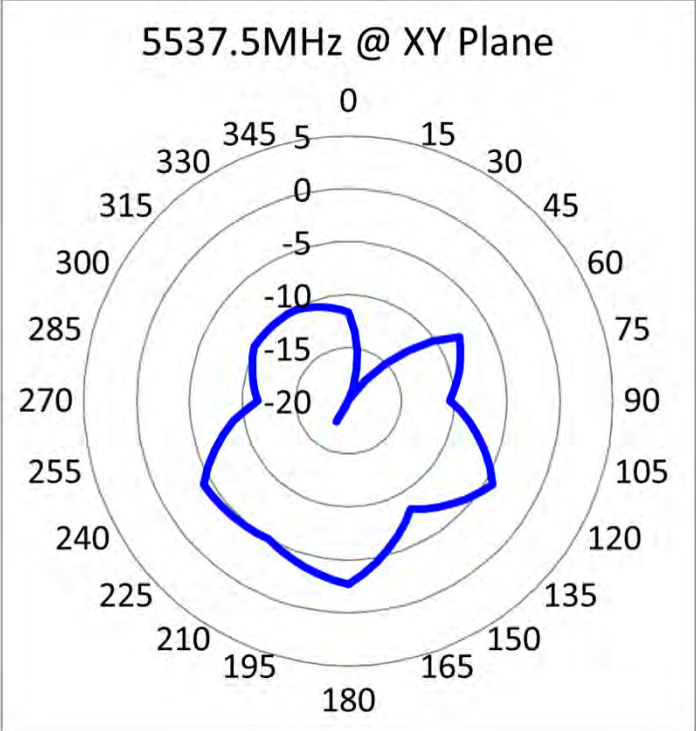
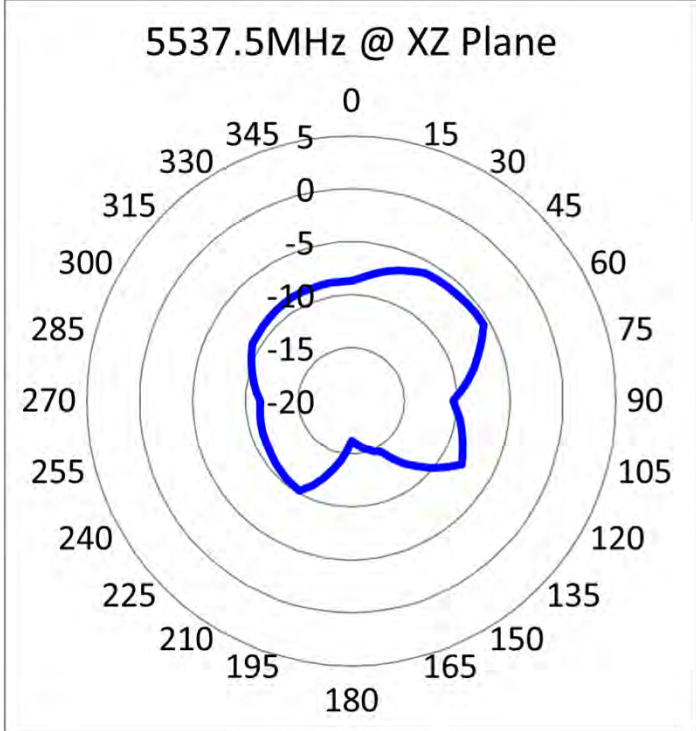
# LTE Main Antenna 2D Radiation Pattern 2350 MHz (LTE)



# LTE Main Antenna 2D Radiation Pattern 3700 MHz (LTE)

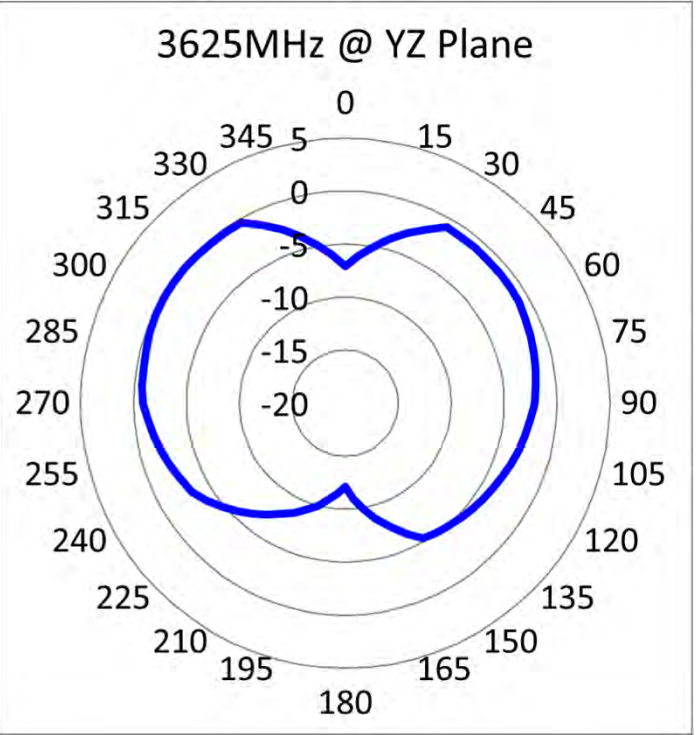
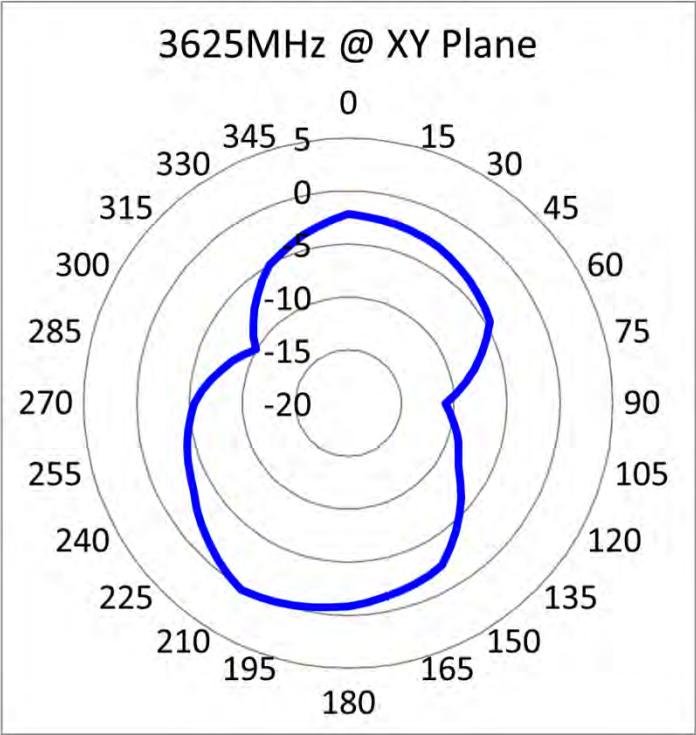
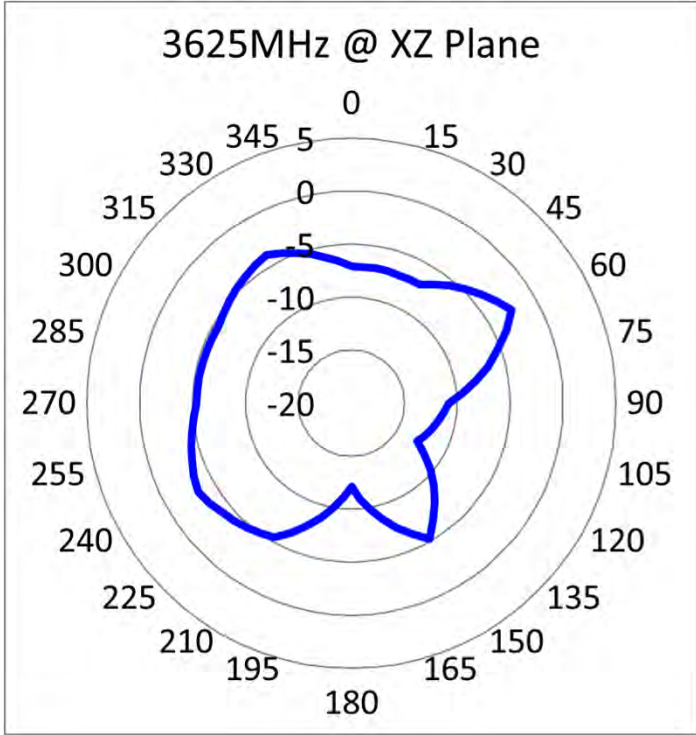


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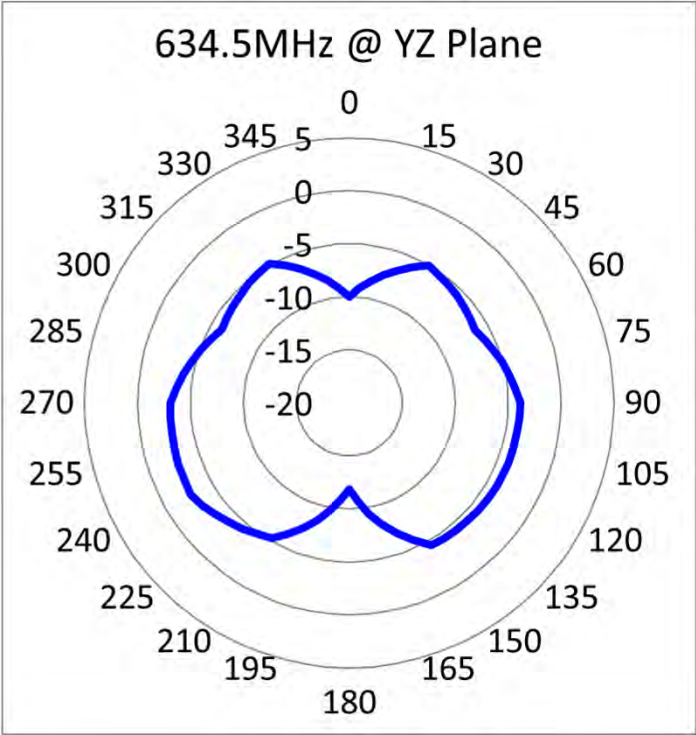
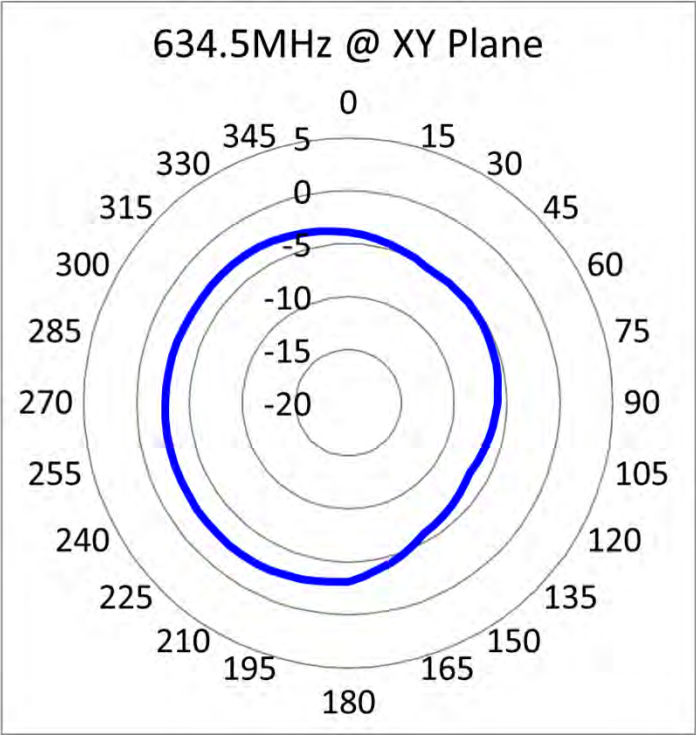
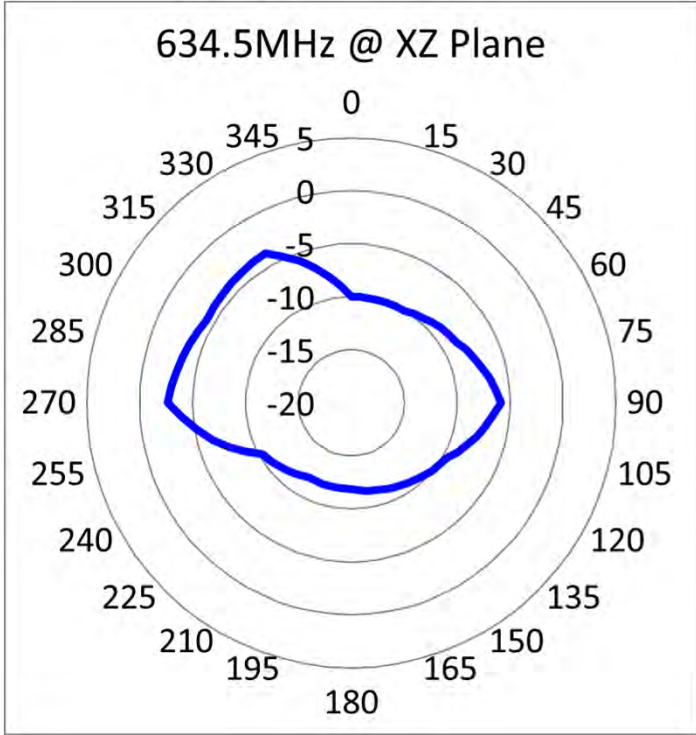




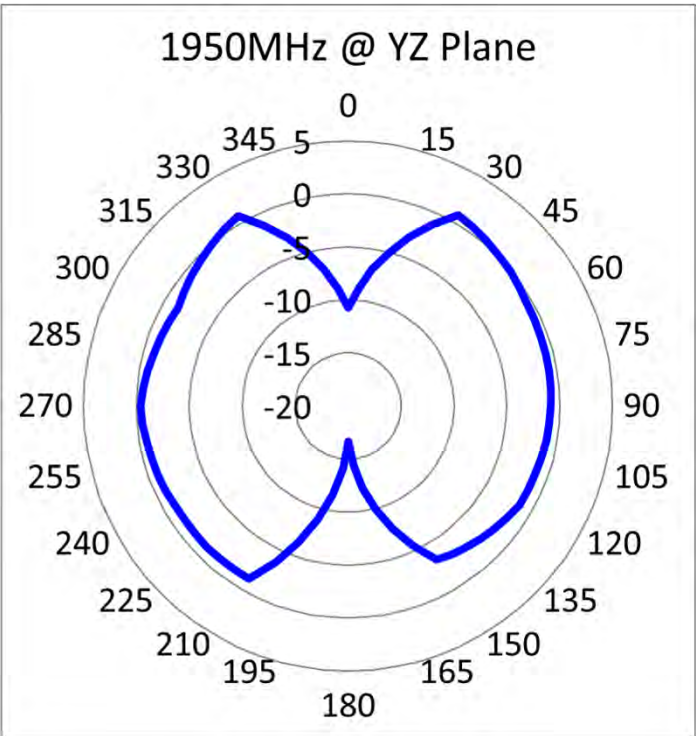
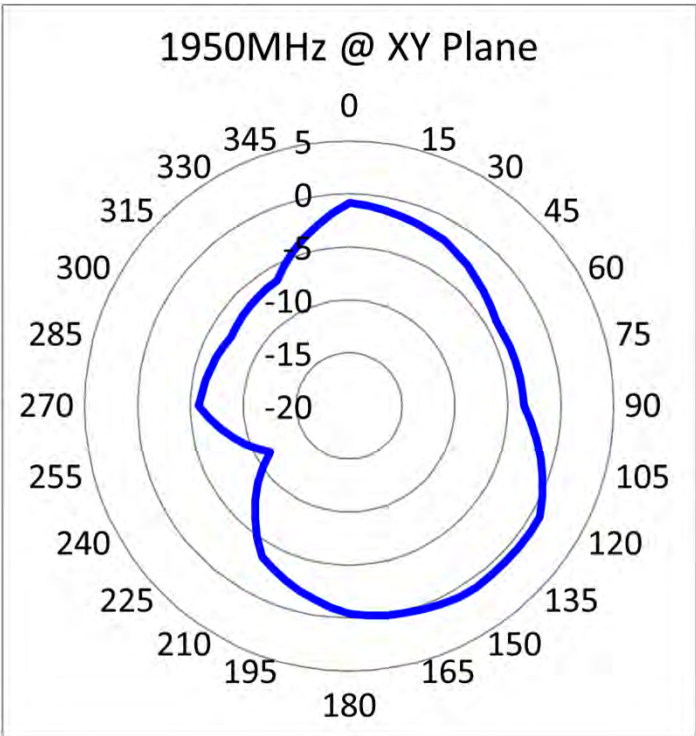
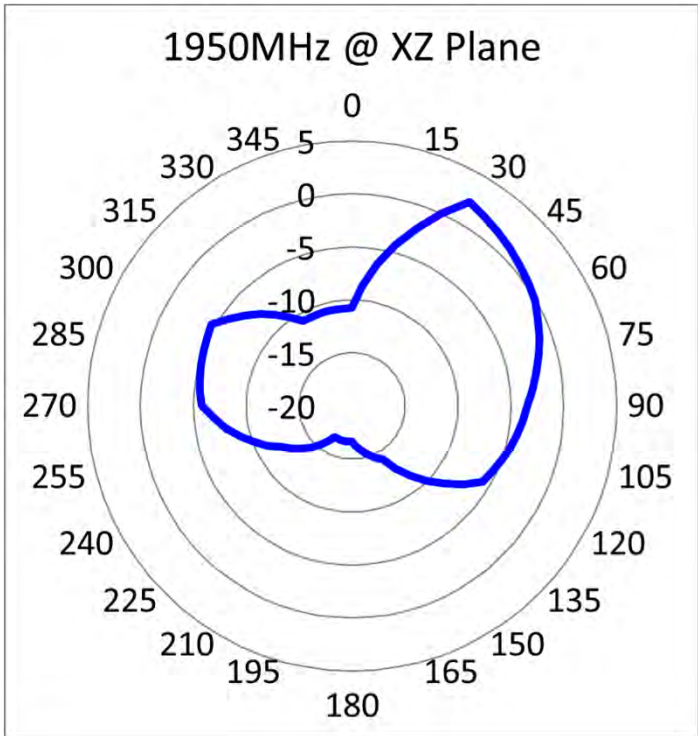
# LTE Main Antenna 2D Radiation Pattern 3625 MHz (LTE/NR)



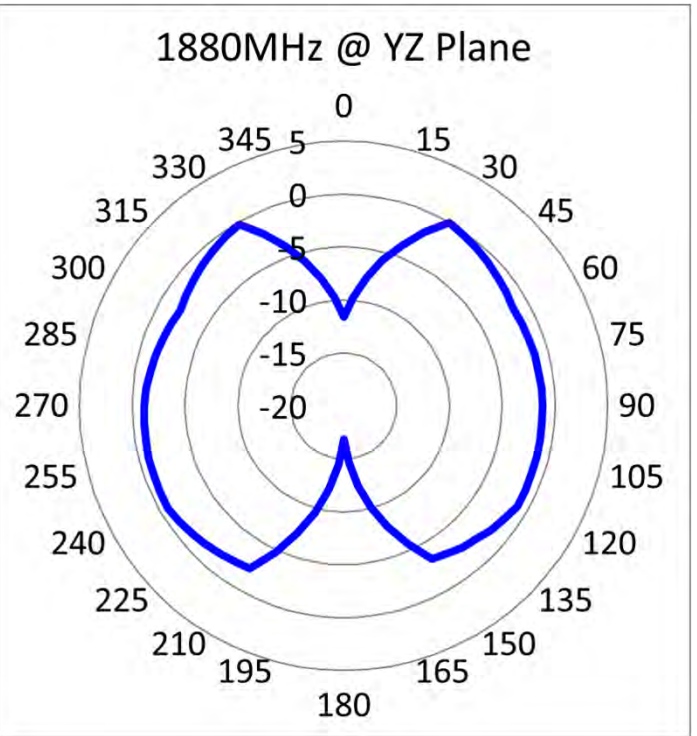
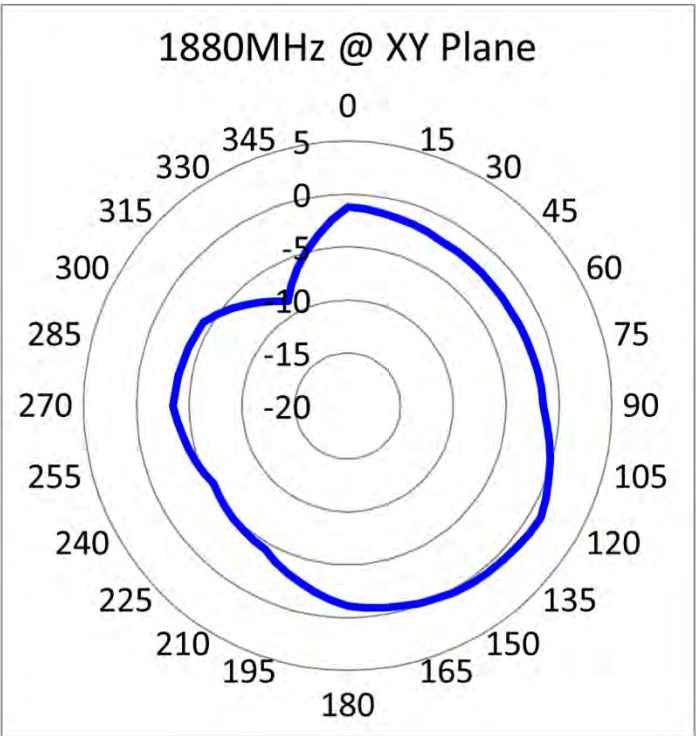
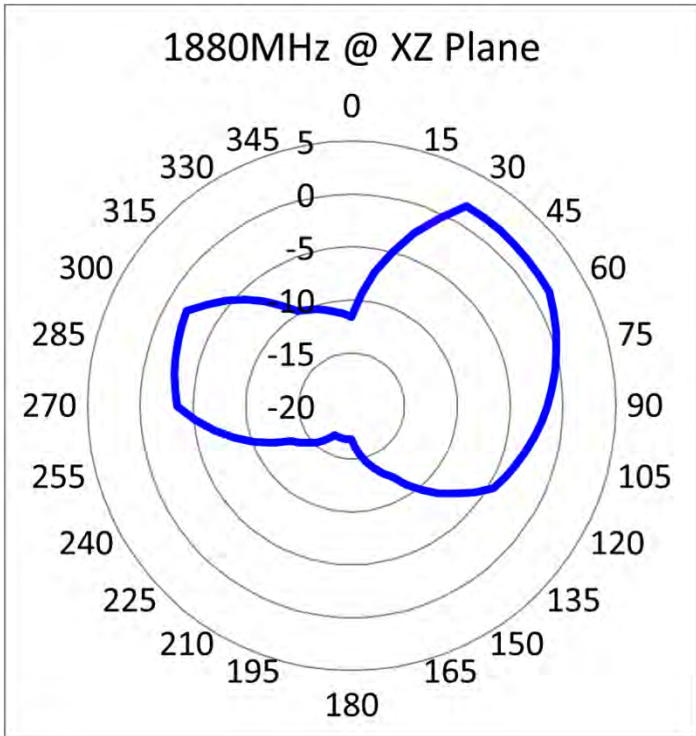
# LTE Main Antenna 2D Radiation Pattern 634.5 MHz (LTE/NR)



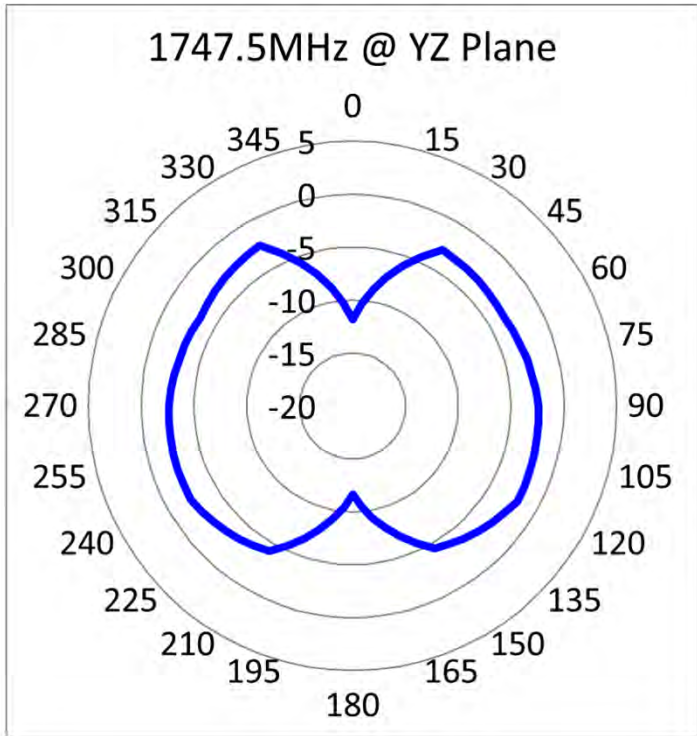
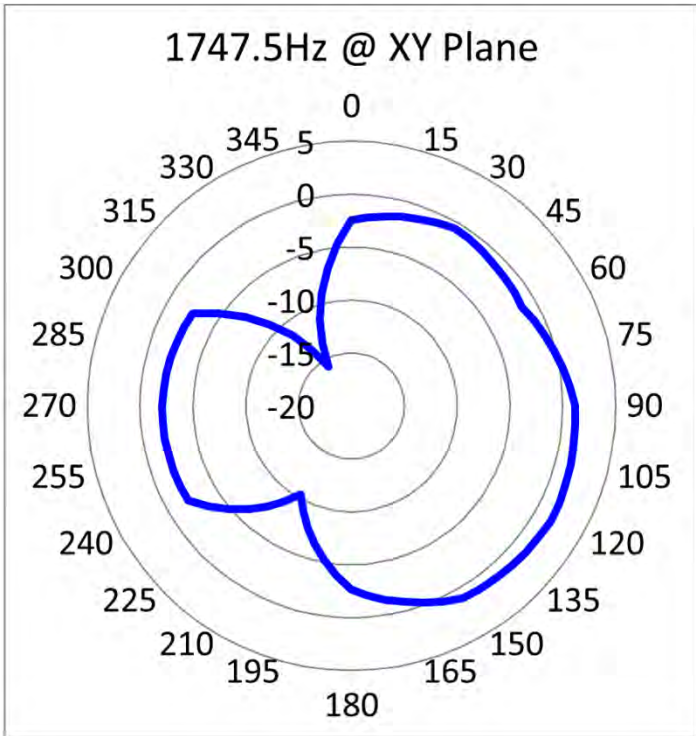
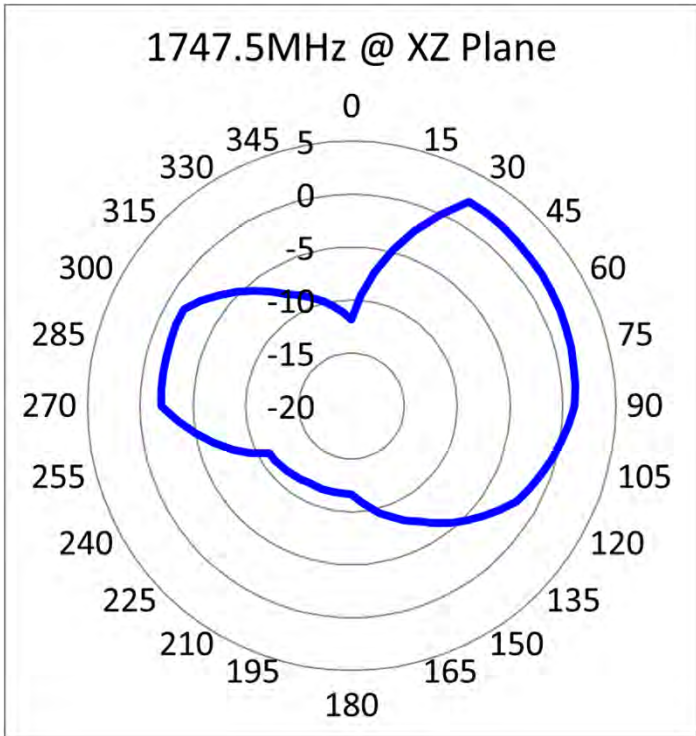
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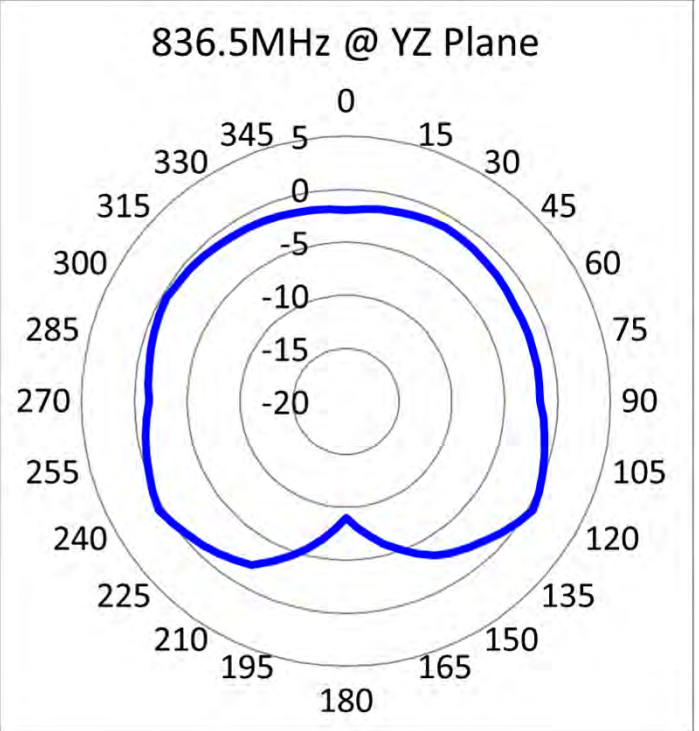
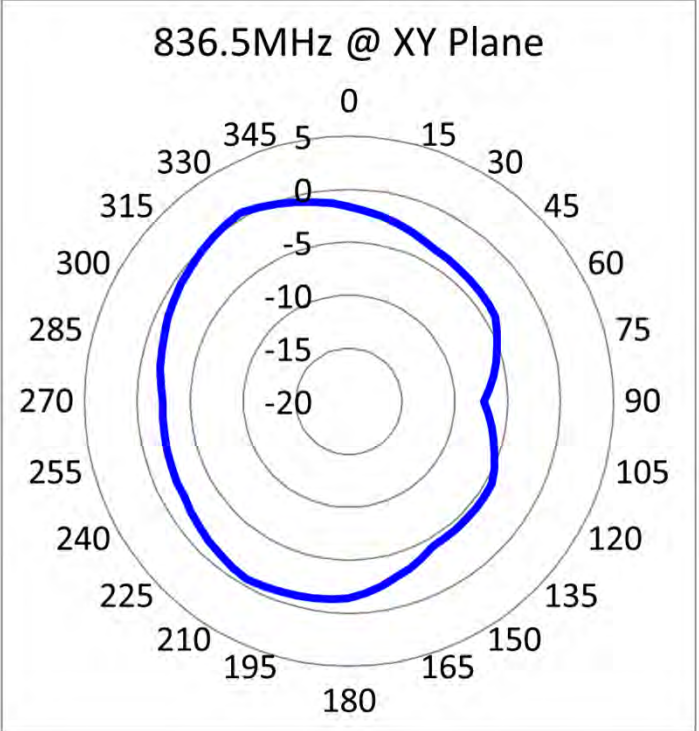
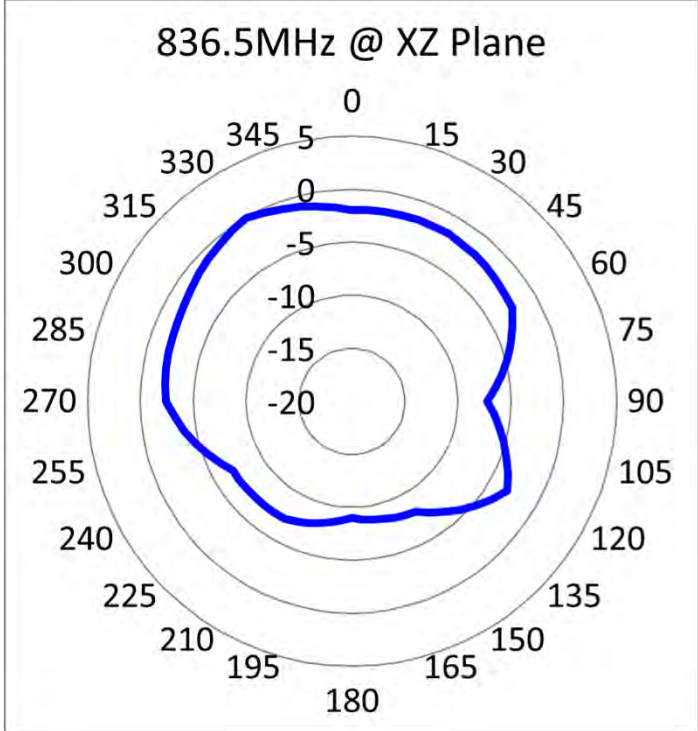
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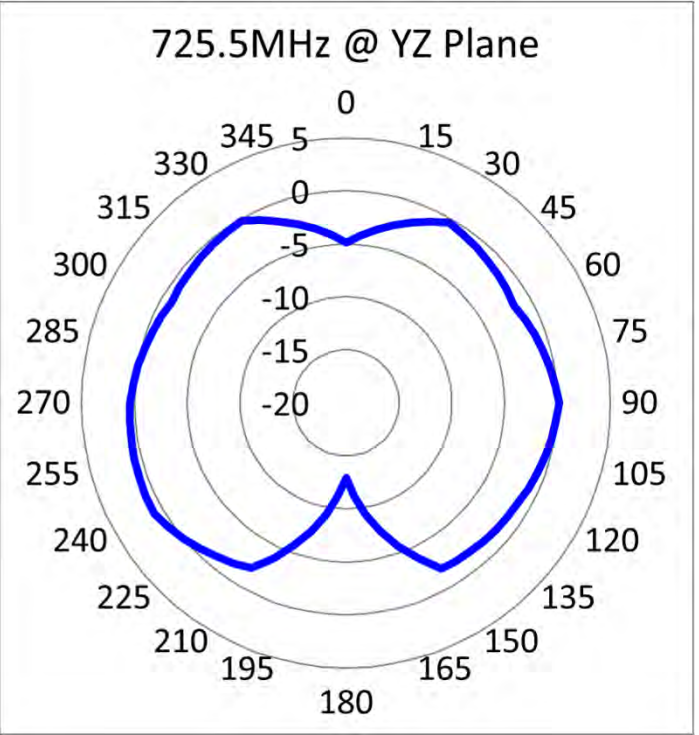
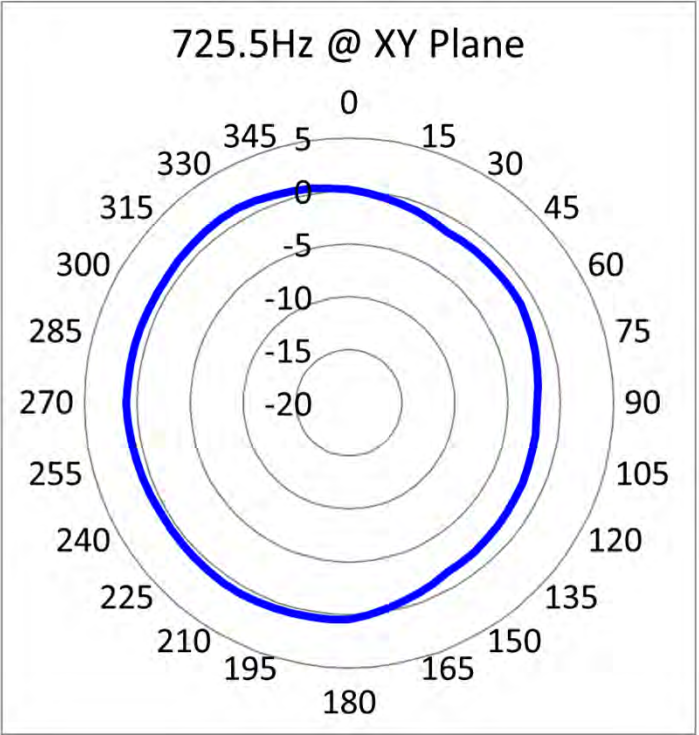
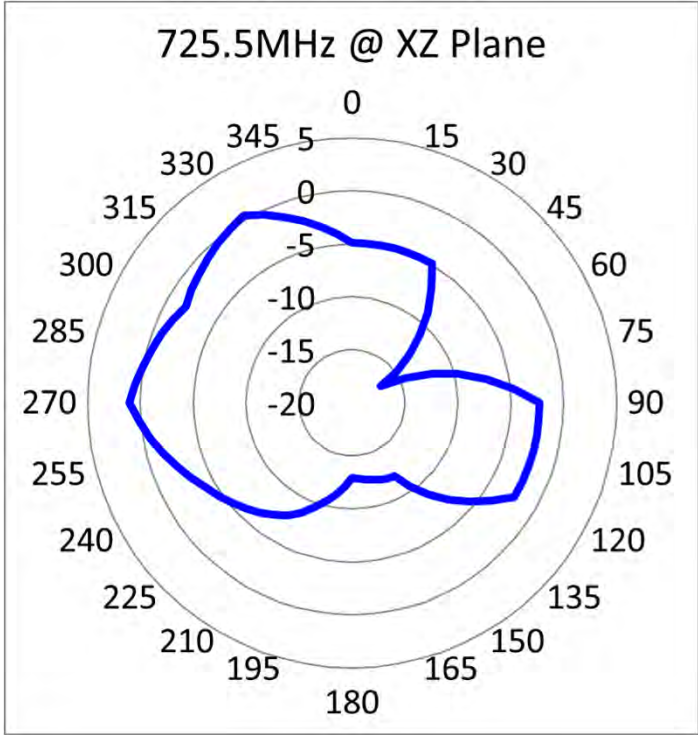
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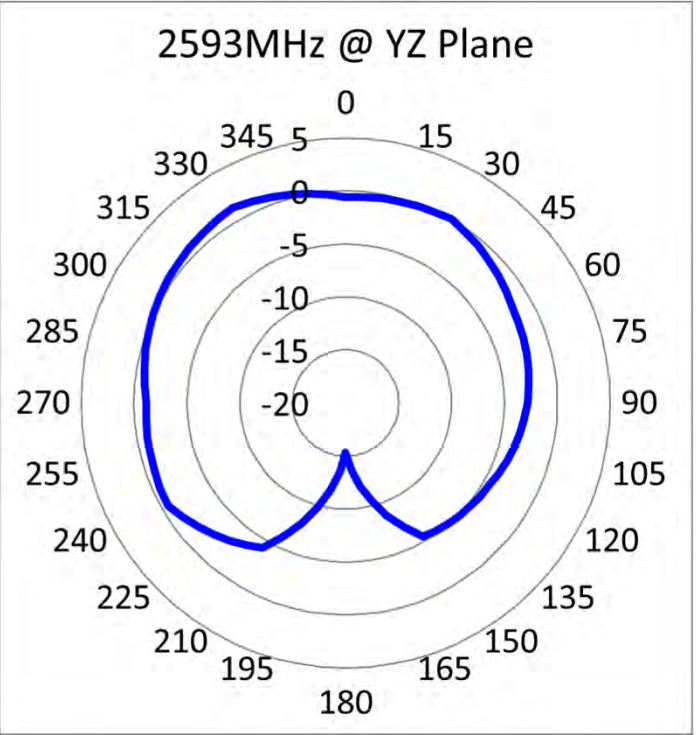
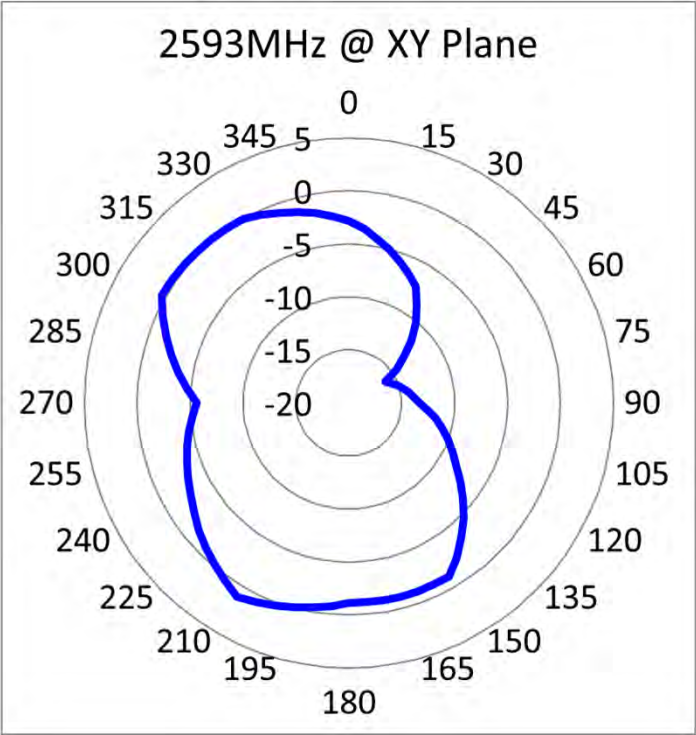
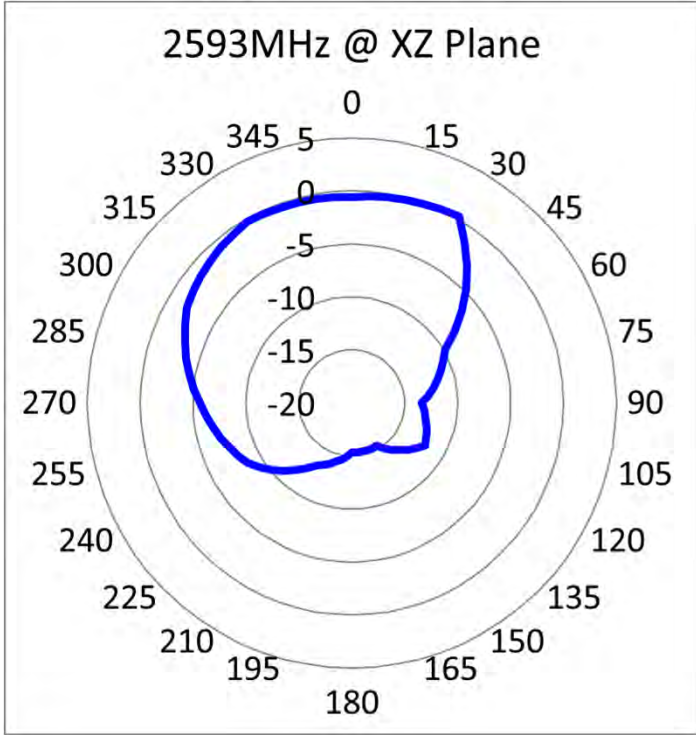
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# LTE Main Antenna 2D Radiation Pattern 725.5 MHz (NR)

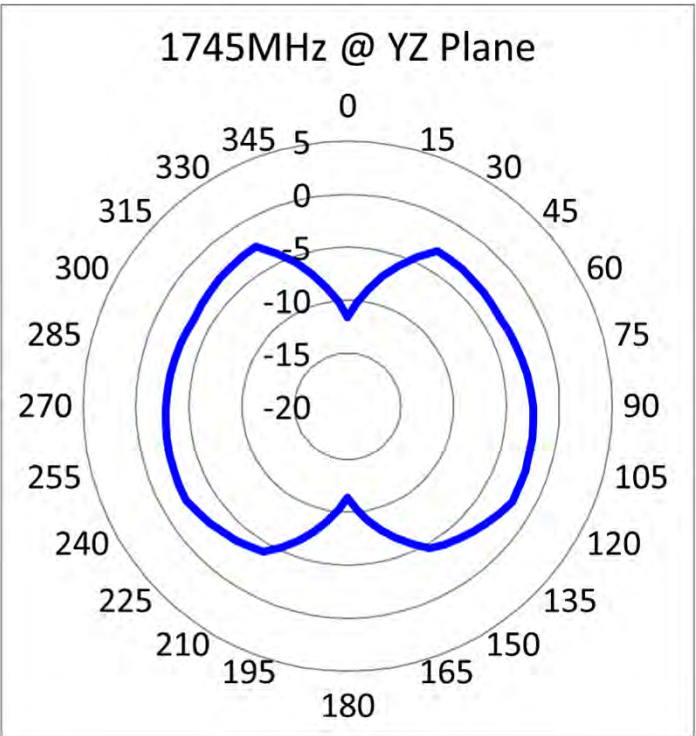
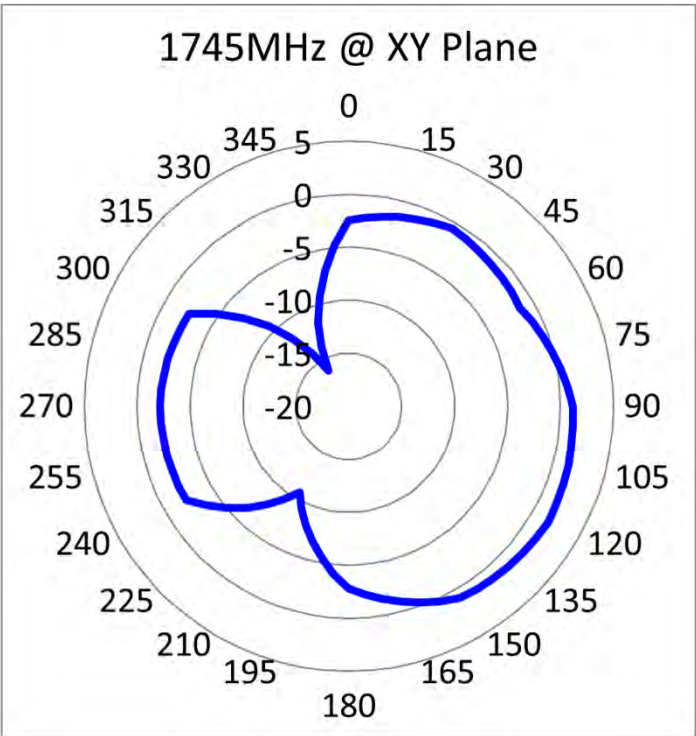
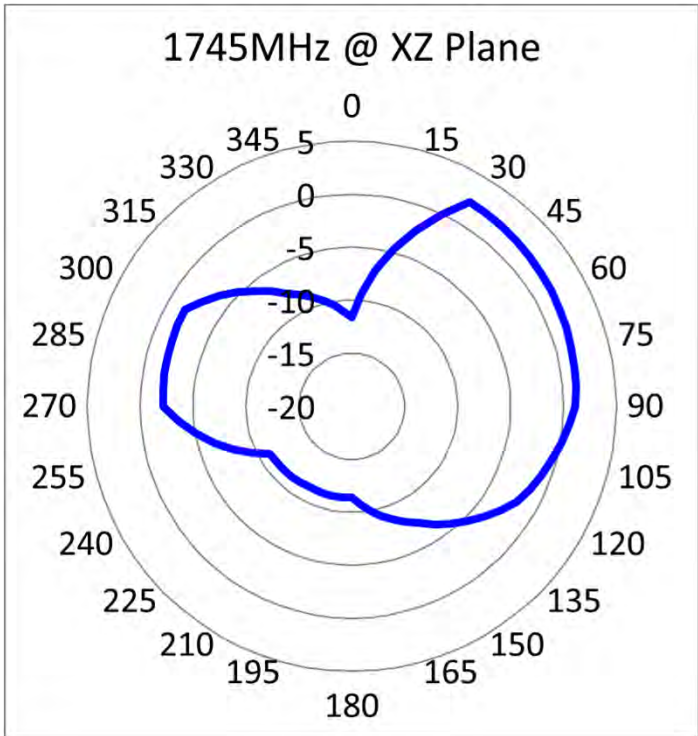


# LTE Main Antenna 2D Radiation Pattern 2593 MHz (NR)

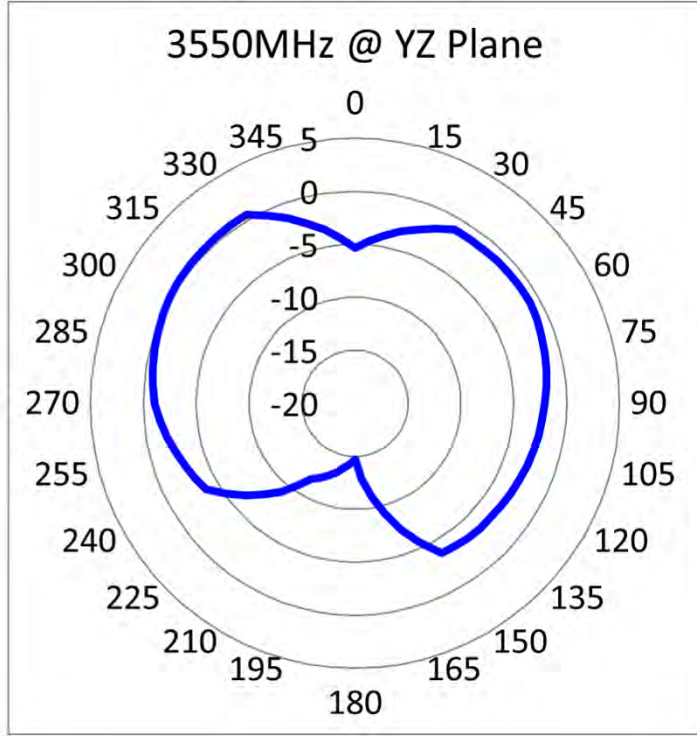
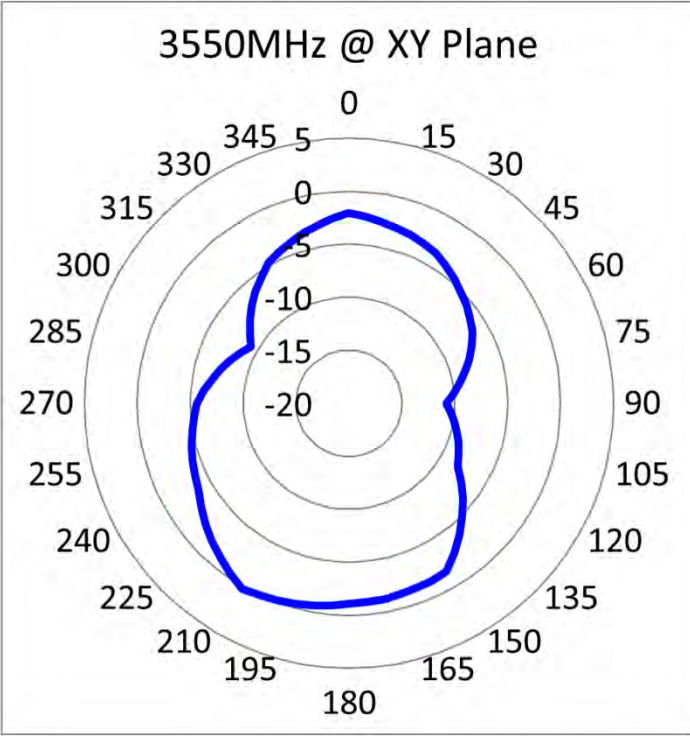
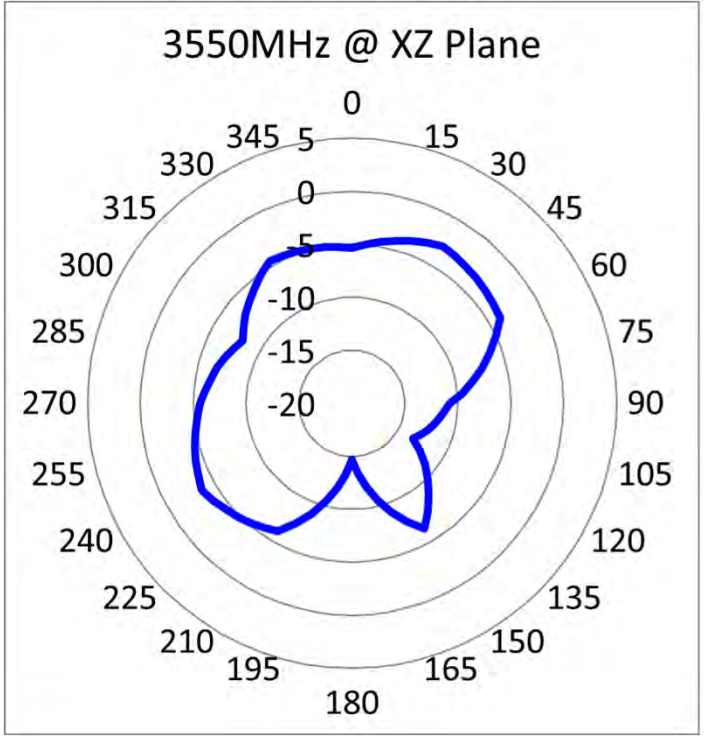




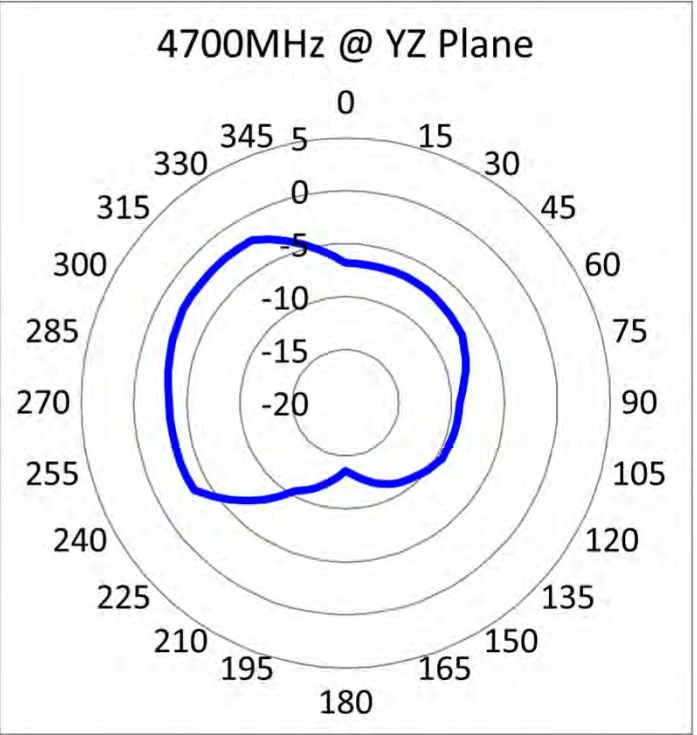
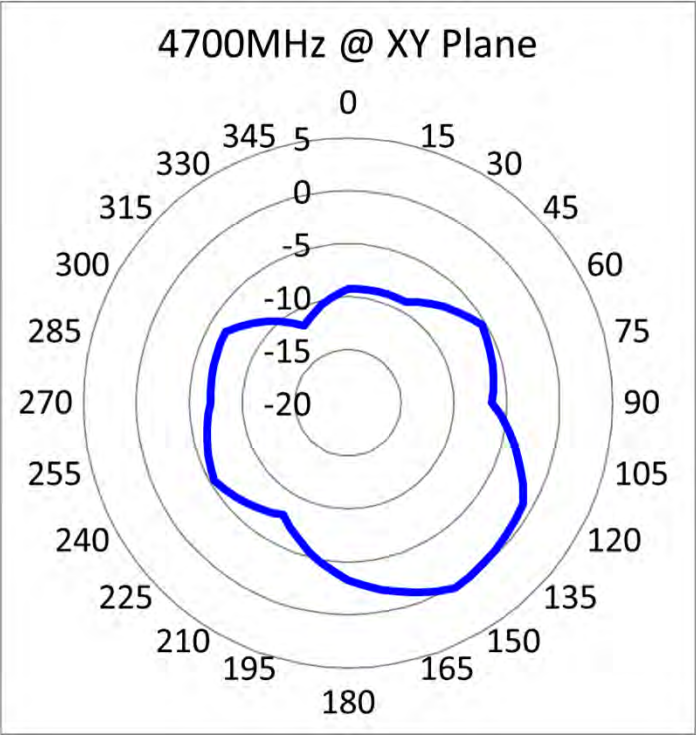
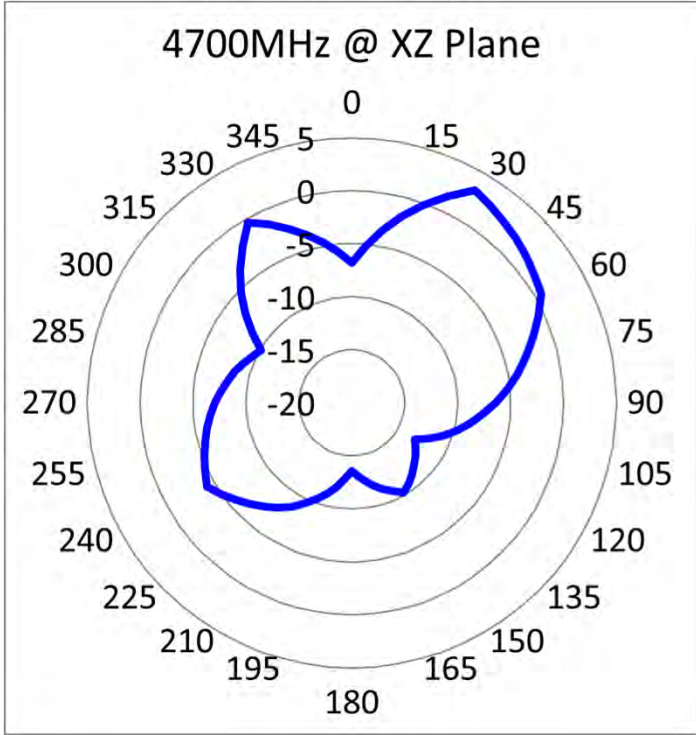
# LTE Main Antenna 2D Radiation Pattern 1745 MHz (NR)



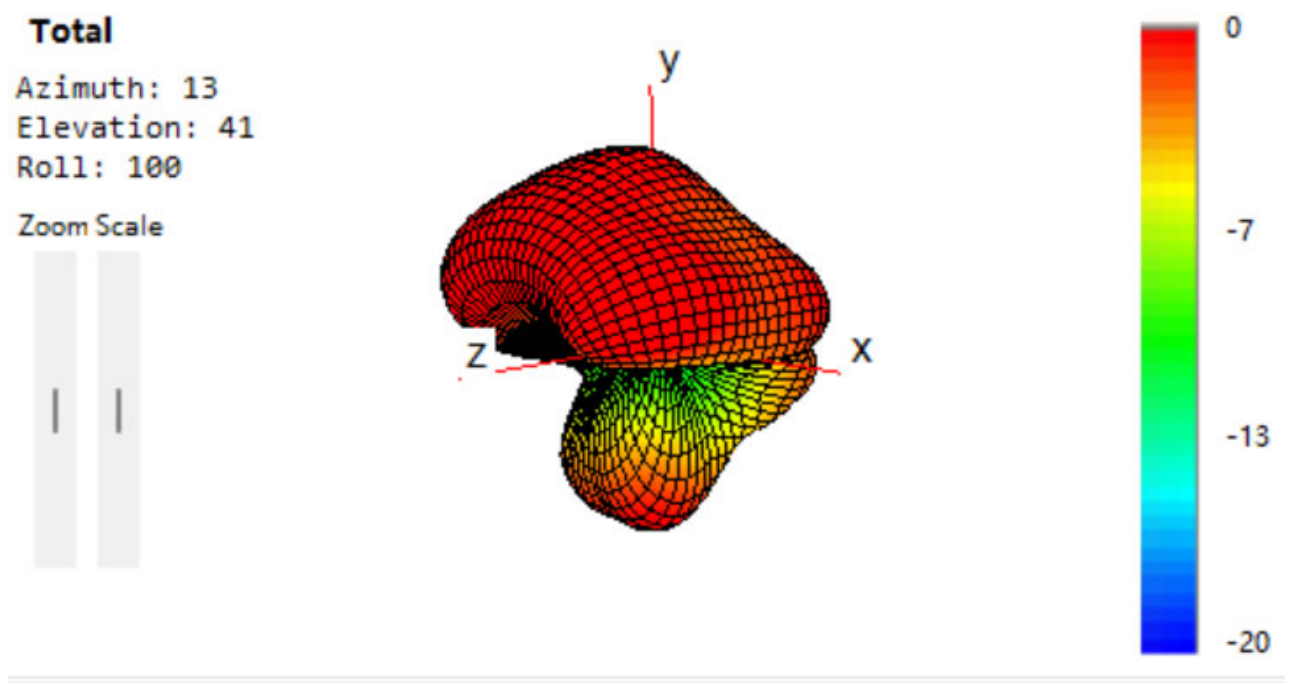
# LTE Main Antenna 2D Radiation Pattern 3550 MHz (NR)



# LTE Main Antenna 2D Radiation Pattern 4700 MHz (NR)



# LTE Main Antenna 3D Radiation Pattern 1767.5 MHz (WCDMA)

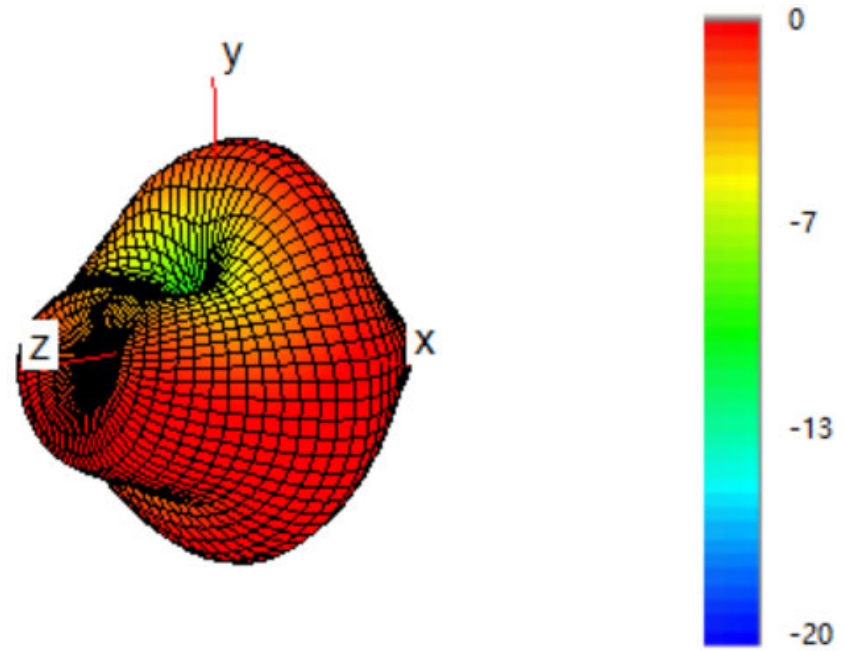


# LTE Main Antenna 3D Radiation Pattern 710 MHz (LTE)

**Total**

Azimuth: 13  
Elevation: 41  
Roll: 100

Zoom Scale

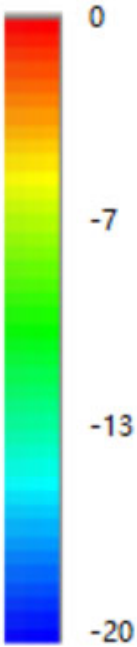
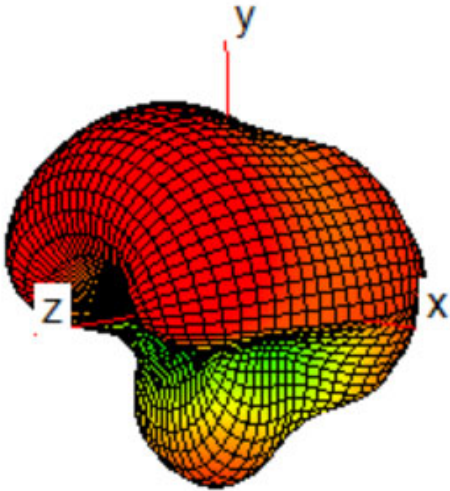


# LTE Main Antenna 3D Radiation Pattern 1882.5 MHz (LTE)

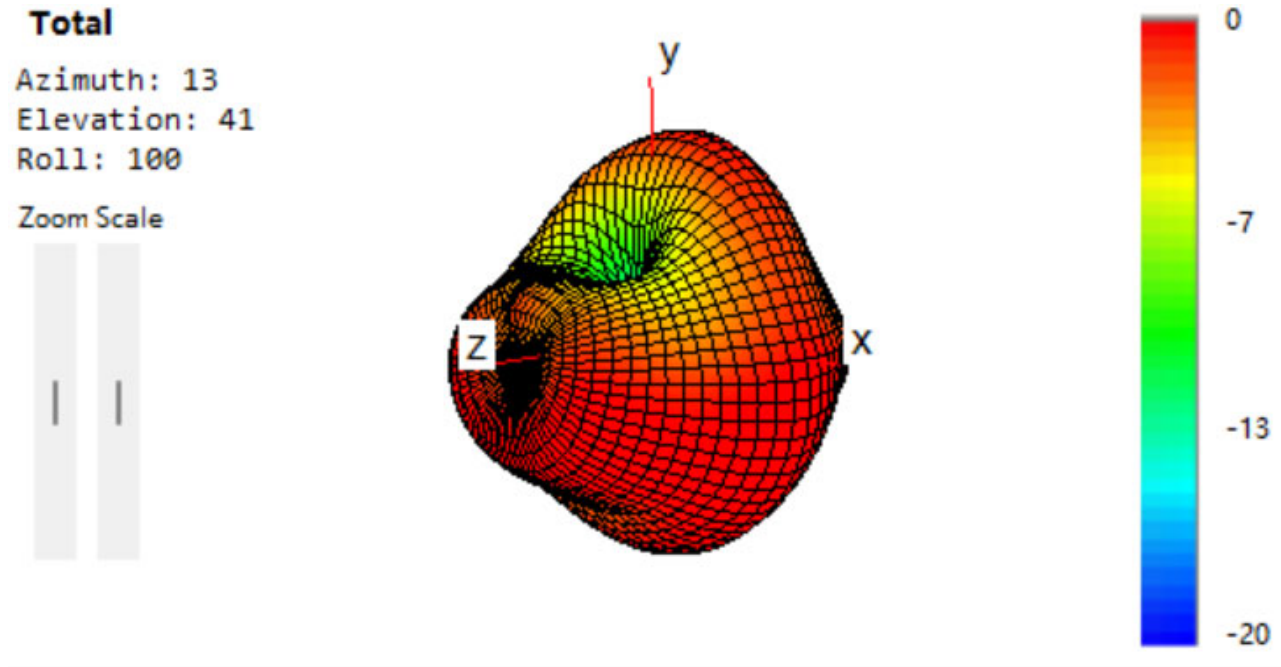
**Total**

Azimuth: 13  
Elevation: 41  
Roll: 100

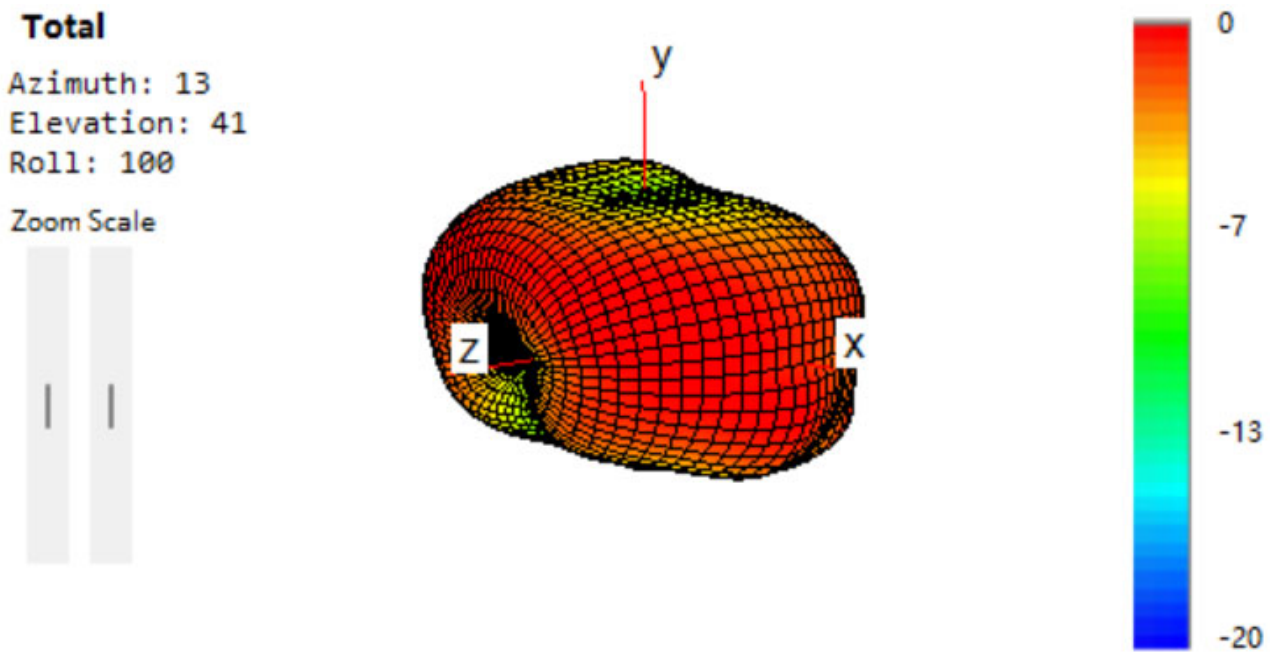
Zoom Scale



# LTE Main Antenna 3D Radiation Pattern 722.5 MHz (LTE)



# LTE Main Antenna 3D Radiation Pattern 2310 MHz (LTE)



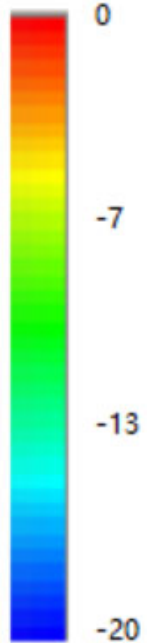
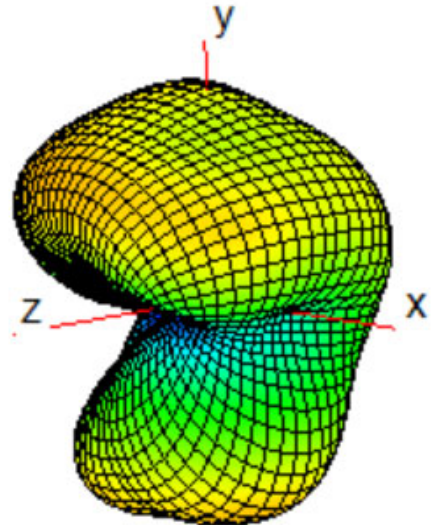


# LTE Main Antenna 3D Radiation Pattern 1474 MHz (LTE)

**Total**

Azimuth: 13  
Elevation: 41  
Roll: 100

Zoom Scale

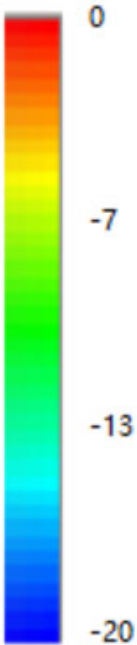
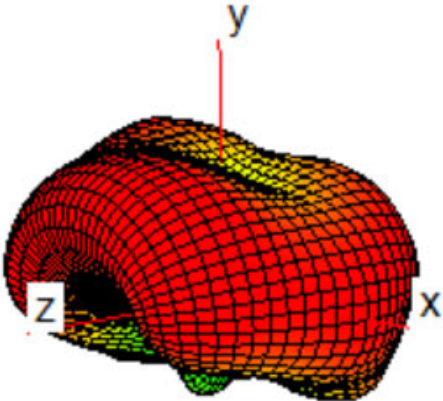


# LTE Main Antenna 3D Radiation Pattern 2017.5 MHz (LTE)

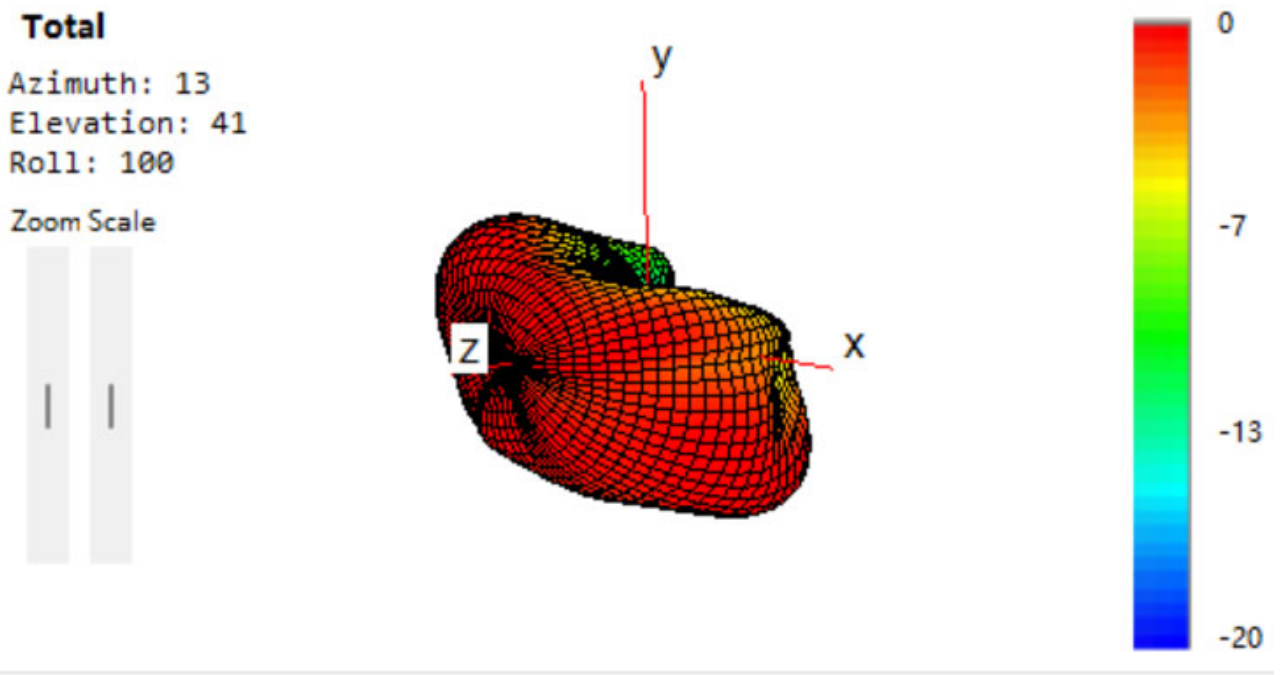
**Total**

Azimuth: 13  
Elevation: 41  
Roll: 100

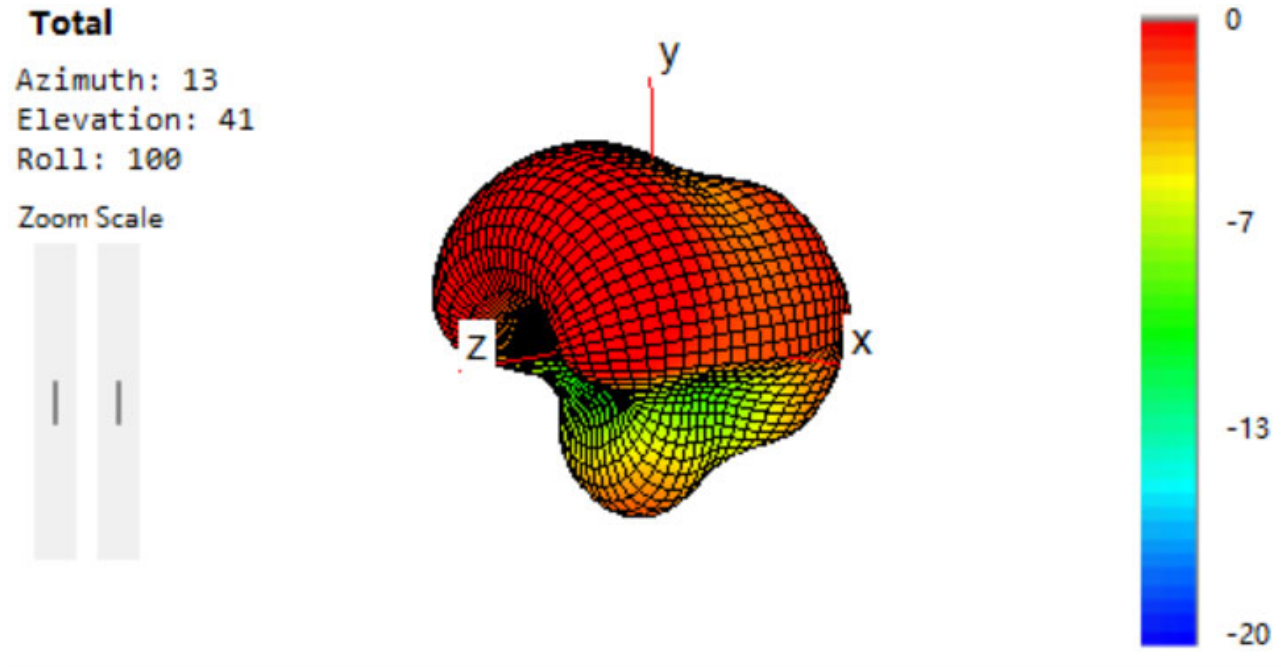
Zoom Scale



# LTE Main Antenna 3D Radiation Pattern 2595 MHz (LTE)



# LTE Main Antenna 3D Radiation Pattern 1900 MHz (LTE)

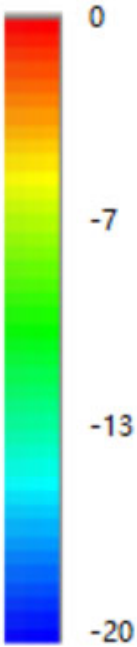
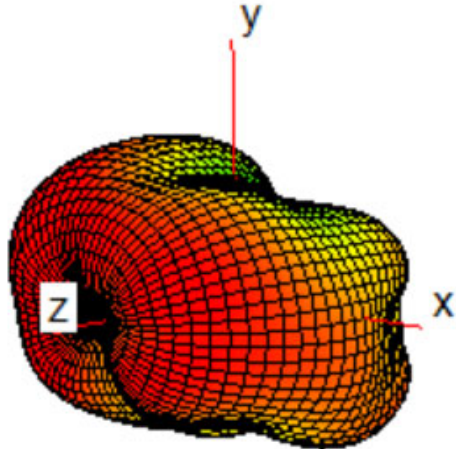


# LTE Main Antenna 3D Radiation Pattern 2350 MHz (LTE)

**Total**

Azimuth: 13  
Elevation: 41  
Roll: 100

Zoom Scale

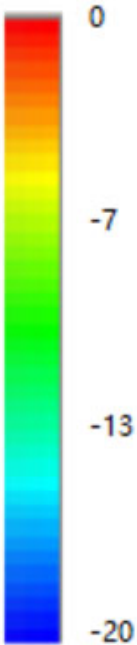
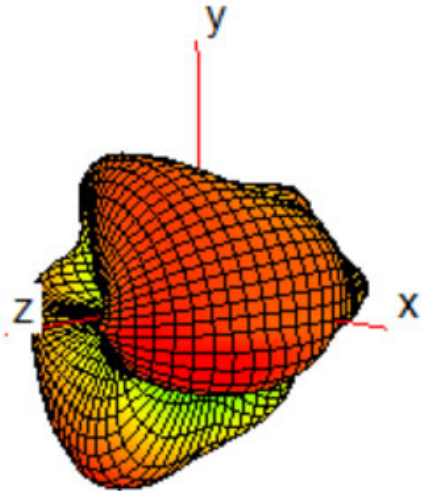


# LTE Main Antenna 3D Radiation Pattern 3700 MHz (LTE)

**Total**

Azimuth: 13  
Elevation: 41  
Roll: 100

Zoom Scale

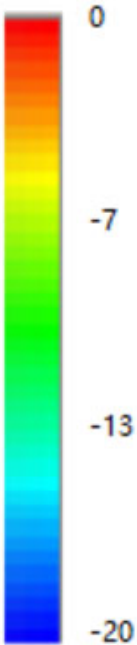
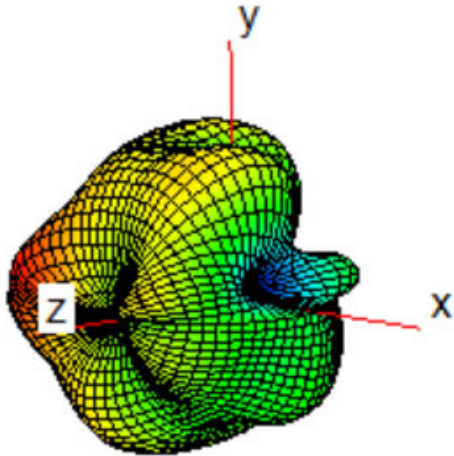


# LTE Main Antenna 3D Radiation Pattern 5537.5 MHz (LTE)

**Total**

Azimuth: 13  
Elevation: 41  
Roll: 100

Zoom Scale

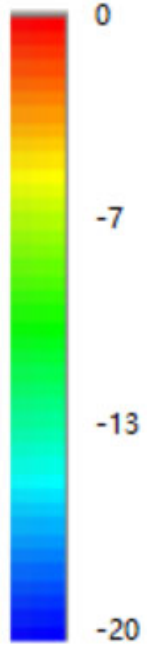
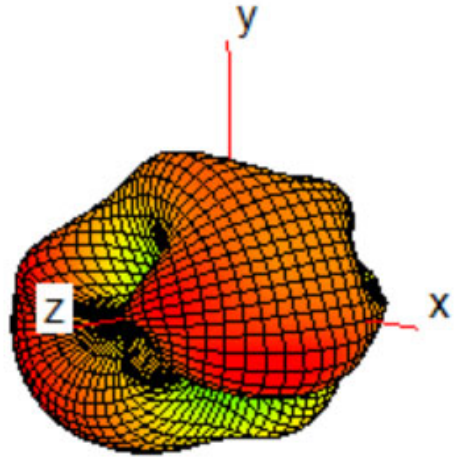


# LTE Main Antenna 3D Radiation Pattern 3625 MHz (LTE/NR)

**Total**

Azimuth: 13  
Elevation: 41  
Roll: 100

Zoom Scale



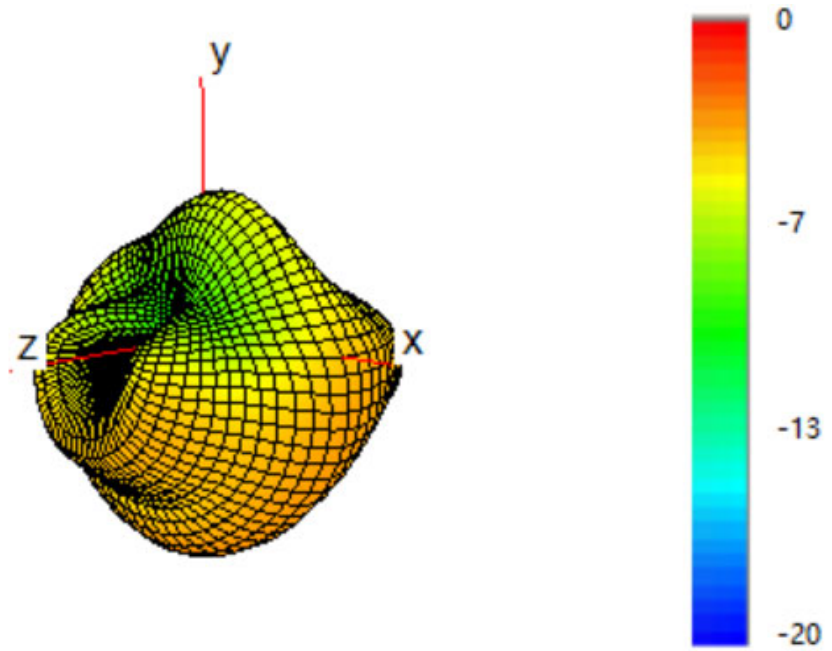


# LTE Main Antenna 3D Radiation Pattern 634.5 MHz (LTE/NR)

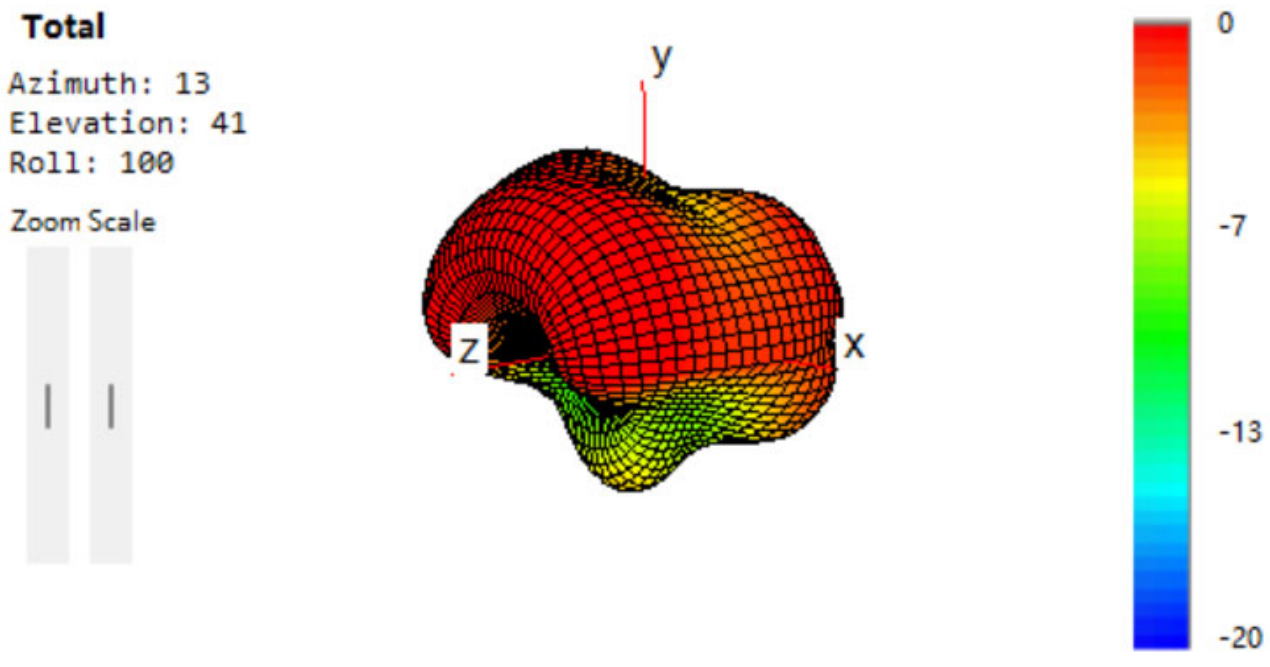
**Total**

Azimuth: 13  
Elevation: 41  
Roll: 100

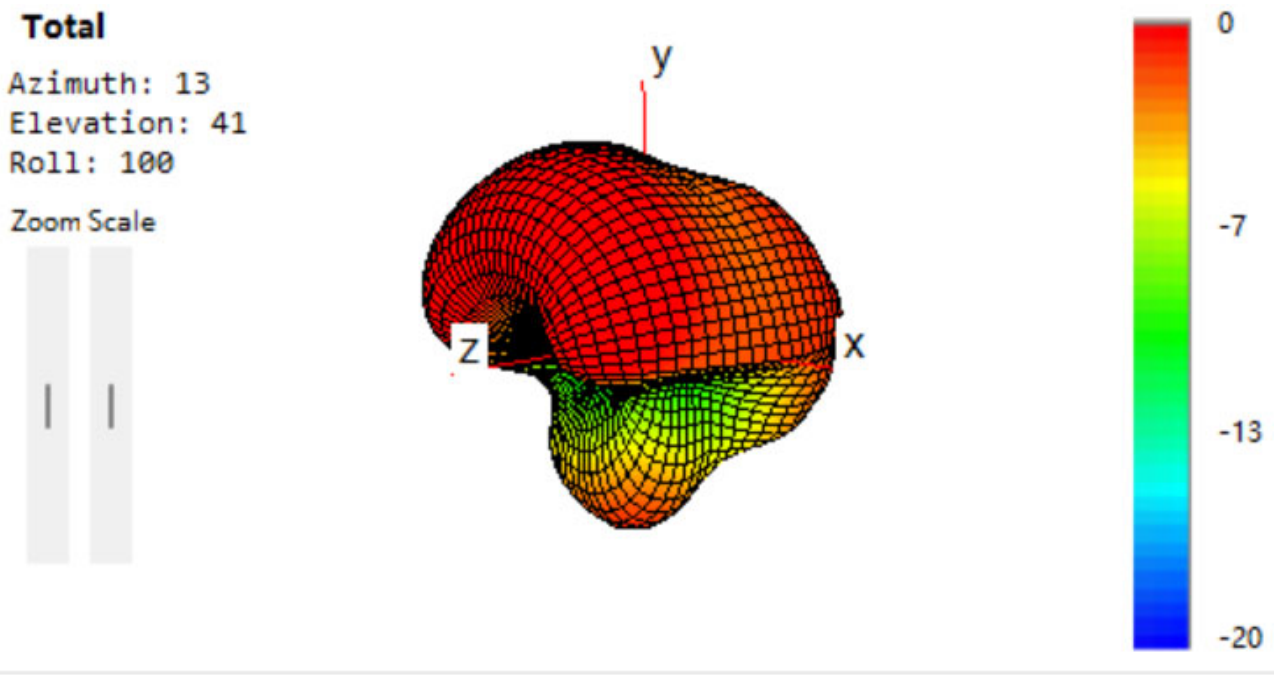
Zoom Scale



# LTE Main Antenna 3D Radiation Pattern 1950 MHz (NR)



# LTE Main Antenna 3D Radiation Pattern 1880 MHz (NR)



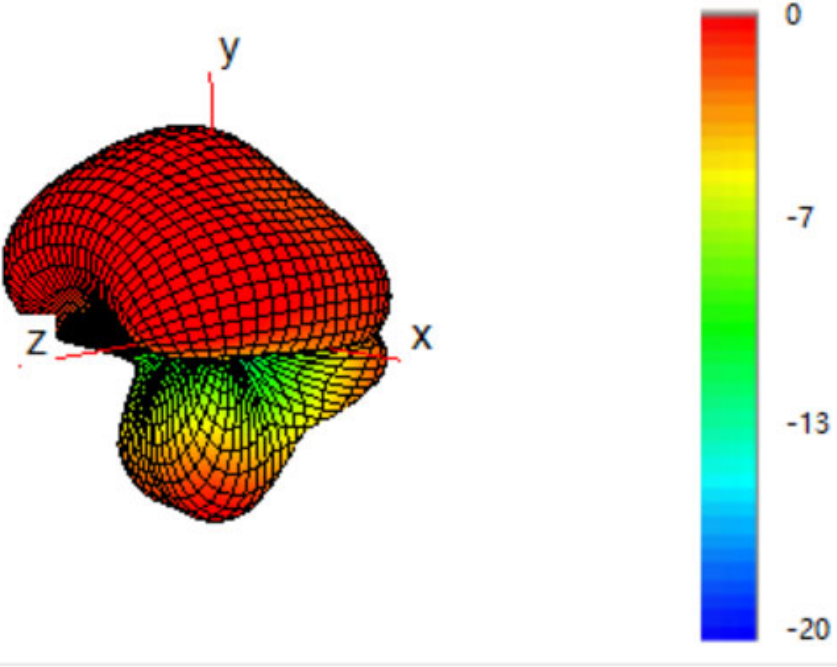
# LTE Main Antenna 3D Radiation Pattern 1747.5 MHz (NR)



**Total**

Azimuth: 13  
Elevation: 41  
Roll: 100

Zoom Scale

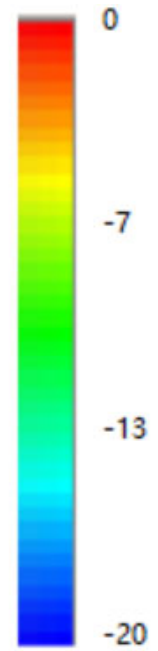
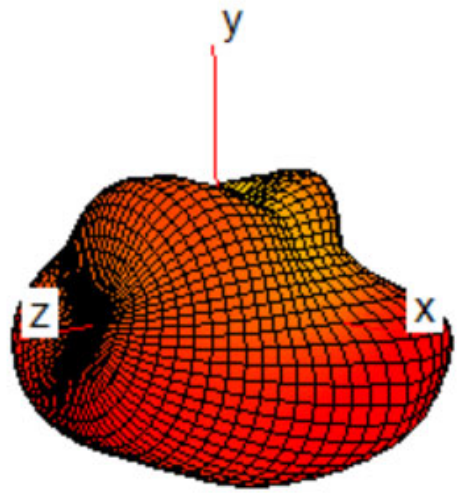


# LTE Main Antenna 3D Radiation Pattern 836.5 MHz (NR)

**Total**

Azimuth: 13  
Elevation: 41  
Roll: 100

Zoom Scale

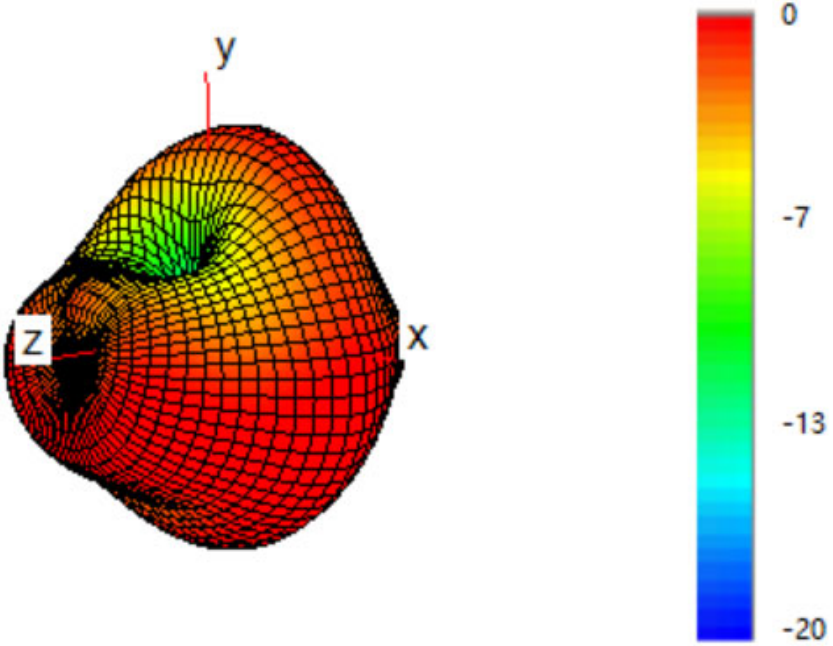


# LTE Main Antenna 3D Radiation Pattern 725.5 MHz (NR)

**Total**

Azimuth: 13  
Elevation: 41  
Roll: 100

Zoom Scale

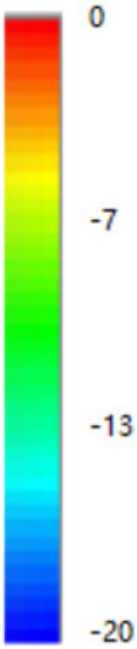
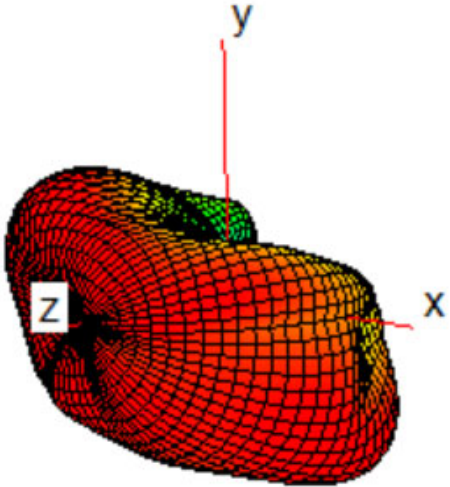


# LTE Main Antenna 3D Radiation Pattern 2593 MHz (NR)

**Total**

Azimuth: 13  
Elevation: 41  
Roll: 100

Zoom Scale

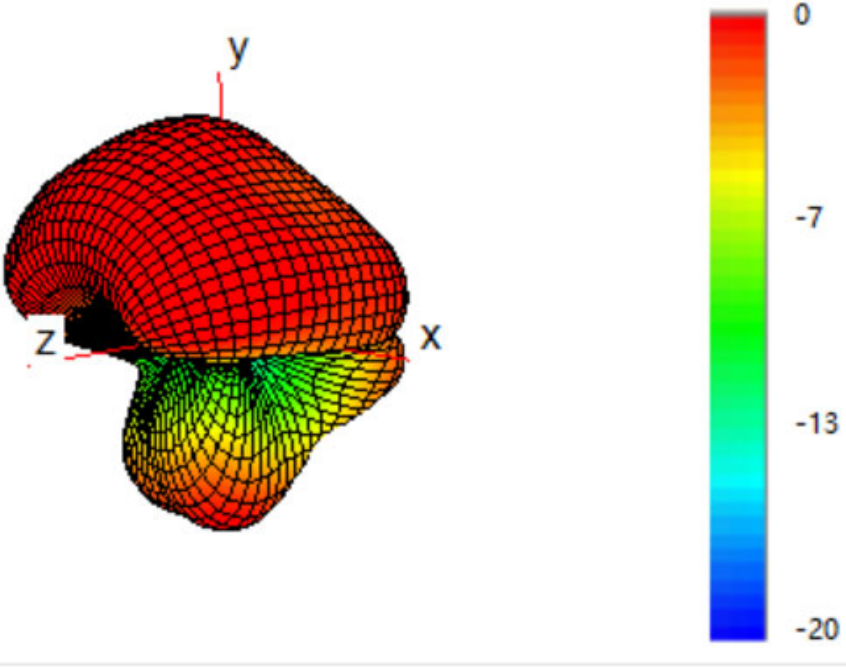


# LTE Main Antenna 3D Radiation Pattern 1745 MHz (NR)

**Total**

Azimuth: 13  
Elevation: 41  
Roll: 100

Zoom Scale



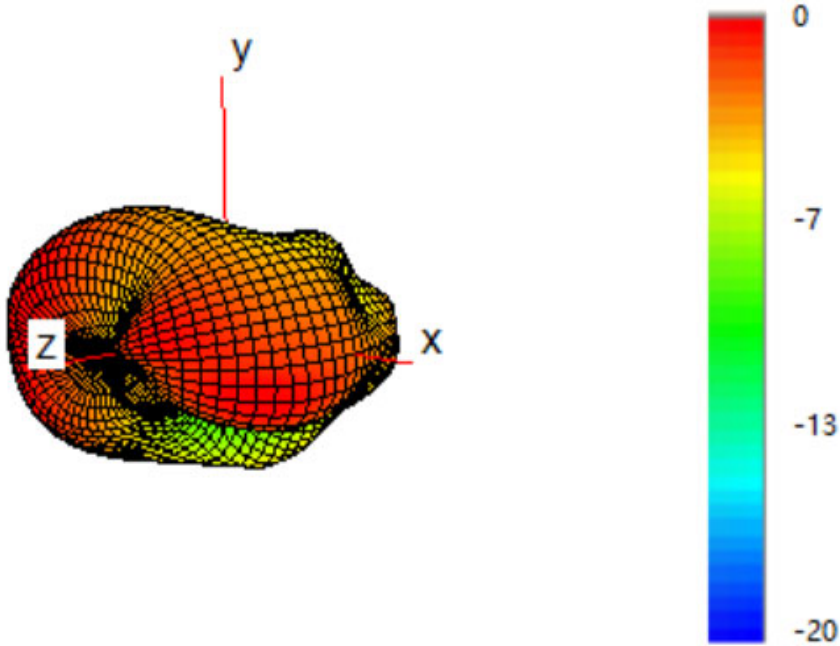


# LTE Main Antenna 3D Radiation Pattern 3550 MHz (NR)

**Total**

Azimuth: 13  
Elevation: 41  
Roll: 100

Zoom Scale



# LTE Main Antenna 3D Radiation Pattern 4700 MHz (NR)

**Total**

Azimuth: 13  
Elevation: 41  
Roll: 100

Zoom Scale

