



Alpha 40

5G/4G/Dual Band Wi-Fi and ISM Adhesive T-bar Antenna



Key Features

- Supports 5G NR / 4G LTE / 3G UMTS / 2G Quad-band GSM
- Supports LTE Cat M, LTE Cat NB and NR Cat NB Bands
- Supports Dual Band 2.4 GHz/5 GHz Wi-Fi
- Supports Bluetooth / Zigbee / IEEE 802.15.4 / ISM 2.4 GHz / ISM 5.8 GHz
- Supports LoRa / Zigfox / ISM 868 MHz / ISM 915 MHz
- Balanced dipole design – ground plane independent
- Use of Low Loss PRO100 cable
- Flexible antenna construction suitable for fitting to large-radius, curved surfaces

General Description

The Alpha 40 is a versatile, wideband antenna that can support various IoT applications. Its flexible antenna construction makes it suitable for fitting to large-radius and curved surfaces. The simple installation process with adhesive pads makes it an ideal choice for IoT applications where space is limited.

Supporting a wide range of Technologies, including 5G NR, Dual Band Wi-Fi, LoRa and CatM/NB IoT, the Alpha 40s balanced dipole design is ground plane independent, and it uses Low Loss PRO100 cable, which reduces attenuation.

The Alpha 40 antenna is a reliable and high-performance solution for a wide range of IoT applications that require a wideband antenna with excellent coverage and versatility. Supplied with different cable lengths and SMA Male connectors, the Alpha 40 can also be customized for volume orders.

Additional Considerations

- Simple installation with adhesive pads
- Reduced attenuation from Low Loss cable

| | | | | |
|------------------|------------------|-------------------|------------------|------------------|
| A Adhesive | 5G New Radio | 4G LTE | 3G UMTS | 2G GSM |
| LTE Cat M | LTE NB IoT | NR NB IoT | BLE Bluetooth | AoA Bluetooth |
| AoD Bluetooth | ZB Zigbee | ISM 868 | ISM 915 | ISM 2.4G |
| ISM 5.8G | IEEE 802.15.4 | WiFi 2.4G & 5G | LoRa Wireless | SF Sigfox |
| HNT Helium | W Weightless | Z Wave | | |



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Electrical Specifications

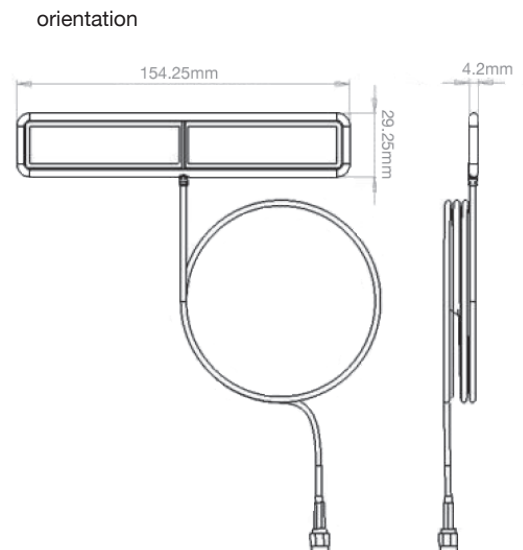
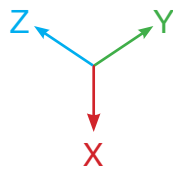
| | |
|---------------------------|----------|
| Impedance: | 50 Ohm |
| Polarization: | Vertical |
| Max Input Power: | 1 W |
| Ground plane independent: | Yes |

Environmental Specifications

| | |
|------------------------------|---------------|
| Operating Temperature range: | -30 to +60 °C |
| Storage Temperature range: | -30 to +60 °C |

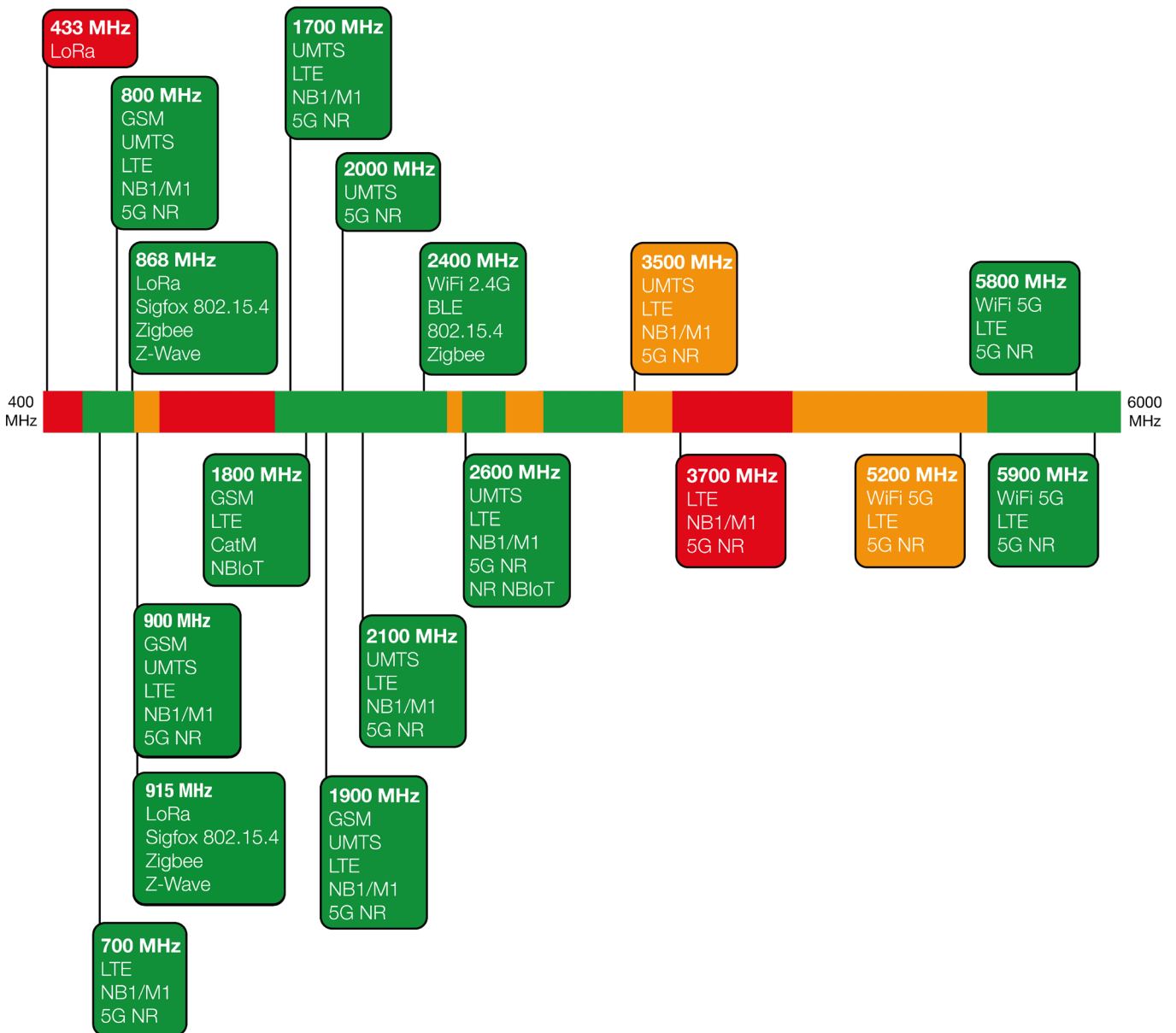
Mechanical Specifications

| | |
|--------------------|-------------------------|
| Dimensions: | 154.25 x 29.25 x 4.2 mm |
| Weight: | 59 g |
| Cable: | PRO100 low loss |
| Connector: | SMA Male |
| Mounting method: | Adhesive Pad |
| Housing materials: | PVC |





Spectrum Coverage



● Suitable band

● Adequate band in good signal conditions

● Likely to be unsuitable



Usable Cellular Frequency Support (410 MHz – 1900 MHz)

| | 410 | 450 | 600 | 700 | 800 | 850 | 900 | 1500 | 1600 | 1700 | 1800 | 1900 |
|-------------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| GSM Bands: | | | | | | ● | ● | | | | ● | ● |
| UMTS Bands: | | | | ● | ● | ● | ● | | | ● | ● | ● |
| LTE Bands: | | | | ● | ● | ● | ● | | | ● | ● | ● |
| LTE Cat M Bands: | | | | ● | ● | ● | ● | | | ● | ● | ● |
| LTE Cat NB Bands: | | | | ● | ● | ● | ● | | | ● | ● | ● |
| 5G NR Bands: | | | | ● | ● | ● | ● | | ● | ● | ● | ● |
| NR Cat NB Bands: | | | | ● | ● | ● | ● | | | ● | ● | ● |

Usable Cellular Frequency Support (2000 MHz – 5900 MHz)

| | 2000 | 2100 | 2300 | 2400 | 2500 | 2600 | 3300 | 3500 | 3700 | 4700 | 5200 | 5900 |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| GSM Bands: | | | | | | | | | | | | |
| UMTS Bands: | | ● | | | | ● | | | | | | |
| LTE Bands: | ● | ● | ● | | | ● | ● | | | | ● | ● |
| LTE Cat M Bands: | | ● | ● | | | ● | | | | | | |
| LTE Cat NB Bands: | | ● | | | | ● | | | | | | |
| 5G NR Bands: | ● | ● | ● | | | ● | | | | | ● | ● |
| NR Cat NB Bands: | | ● | | | | ● | | | | | | |

Usable ISM Frequency Support (433 MHz - 5800 MHz)

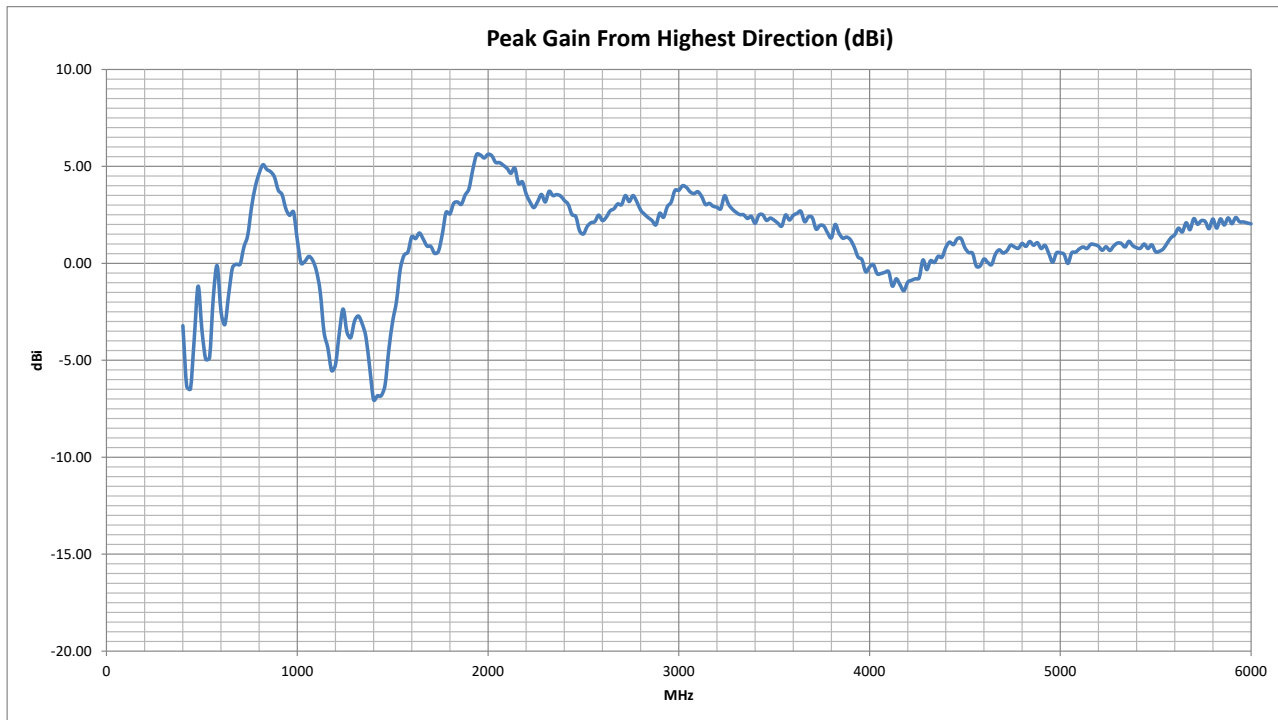
| | 433 | 868 | 915 | 2450 | 5800 |
|---------------|-----|-----|-----|------|------|
| Bluetooth | | | | ● | |
| IEEE 802.15.4 | | ● | ● | ● | |
| LoRa | | ● | ● | | |
| Sigfox | | ● | ● | | |
| WiFi 2.4G | | | | ● | |
| WiFi 5G | | | | | ● |
| Zigbee | | ● | ● | ● | |
| Z-Wave | | ● | ● | | |



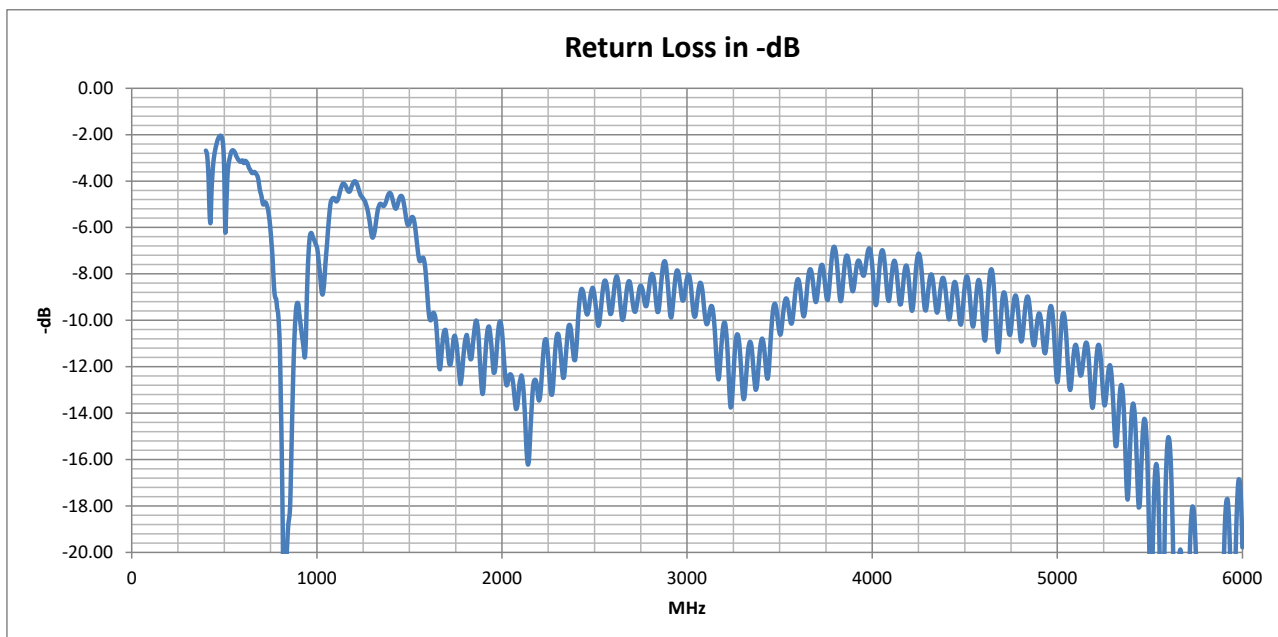
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Peak Gain vs. Frequency



Return Loss

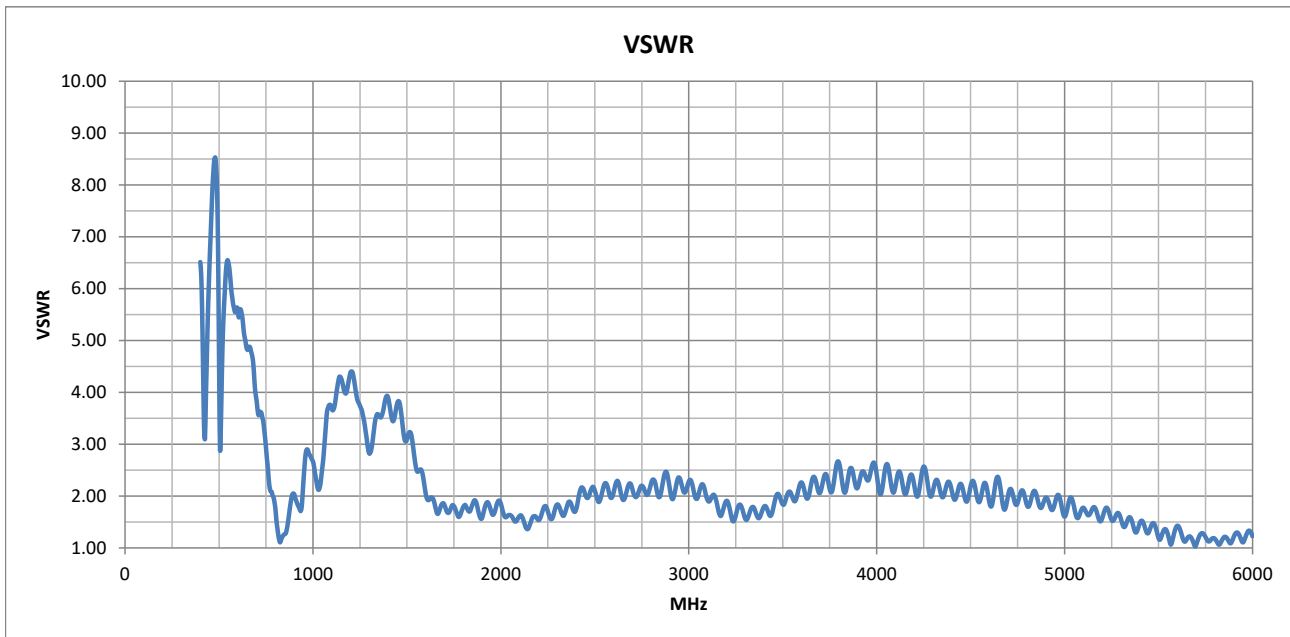




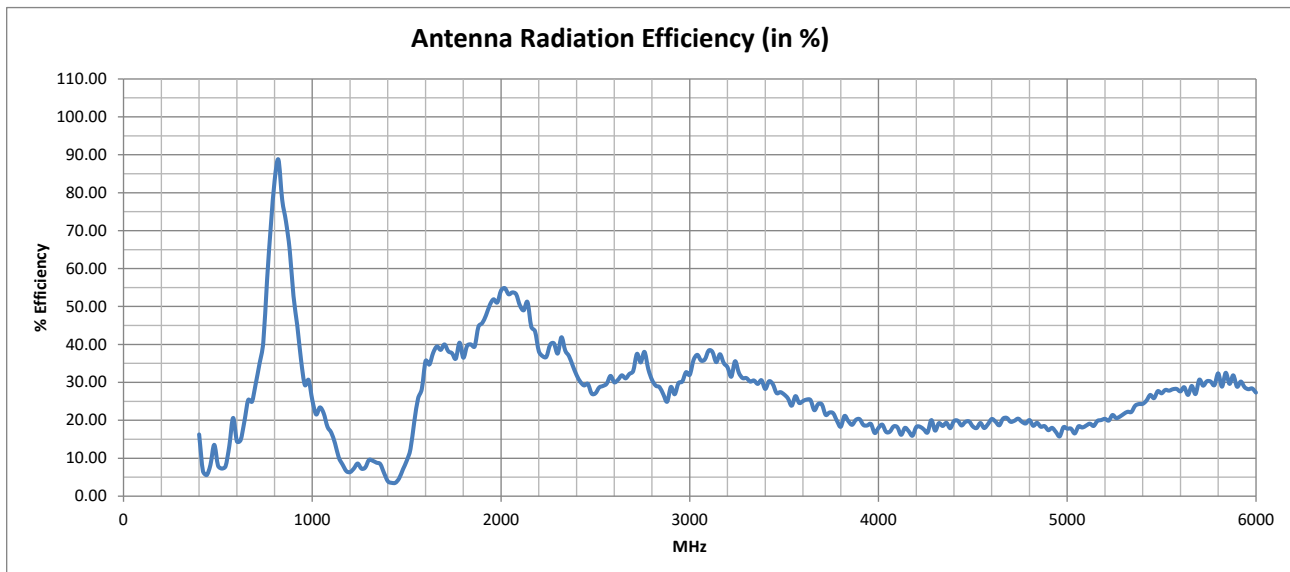
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VSWR



Radiation Efficiency





Cellular Standards Band Support

| GSM (2G) Band | UMTS (3G) Band | E-UTRA (4G) Band | Cat M E-UTRA Band | Cat NB E-UTRA Band | NR (5G) Band | Cat NB NR (5G) Band | Uplink | Downlink | Average Upload Efficiency (%) | Average Download Efficiency (%) | Maximum Upload VSWR | Maximum Download VSWR | Use Indicator |
|---------------|----------------|------------------|-------------------|--------------------|--------------|---------------------|---------------------|---------------------|-------------------------------|---------------------------------|---------------------|-----------------------|---------------|
| | 1 | 1 | 1 | 1 | n1 | n1 | 1920 - 1980 MHz | 2110 - 2170 MHz | 50.52 | 48.27 | 1.88 | 1.62 | ● |
| PCS-1900 | 2 | 2 | 2 | 2 | n2 | n2 | 1850 - 1910 MHz | 1930 - 1990 MHz | 43.35 | 51.11 | 1.92 | 1.92 | ● |
| DCS-1800 | 3 | 3 | 3 | 3 | n3 | n3 | 1710 - 1785 MHz | 1805 - 1880 MHz | 38.01 | 40.11 | 1.83 | 1.92 | ● |
| | 4 | 4 | 4 | 4 | | | 1710 - 1755 MHz | 2110 - 2155 MHz | 37.82 | 49.45 | 1.83 | 1.62 | ● |
| GSM-850 | 5 | 5 | 5 | 5 | n5 | n5 | 824 - 849 MHz | 869 - 894 MHz | 80.40 | 63.40 | 1.27 | 2.05 | ● |
| | 6 | | | | | | 830 - 840 MHz | 875 - 885 MHz | 80.80 | 64.58 | 1.23 | 1.96 | ● |
| | 7 | 7 | 7 | 7 | n7 | n7 | 2500 - 2570 MHz | 2620 - 2690 MHz | 28.90 | 31.58 | 2.25 | 2.30 | ● |
| E-GSM-900 | 8 | 8 | 8 | 8 | n8 | n8 | 880 - 915 MHz | 925 - 960 MHz | 54.95 | 35.47 | 2.05 | 2.80 | ● |
| | 9 | 9 | | | | | 1749.9 - 1784.9 MHz | 1844.9 - 1879.9 MHz | 38.06 | 41.02 | 1.81 | 1.92 | ● |
| | 10 | 10 | | | | | 1710 - 1770 MHz | 2110 - 2170 MHz | 37.62 | 48.27 | 1.83 | 1.62 | ● |
| | 11 | 11 | 11 | 11 | | | 1427.9 - 1447.9 MHz | 1475.9 - 1495.9 MHz | 3.61 | 7.71 | 3.78 | 3.39 | ● |
| | 12 | 12 | 12 | 12 | n12 | n12 | 699 - 716 MHz | 729 - 746 MHz | 31.62 | 40.43 | 3.86 | 3.54 | ● |
| | 13 | 13 | 13 | 13 | n13 | n13 | 777 - 787 MHz | 746 - 756 MHz | 72.42 | 49.61 | 2.09 | 3.08 | ● |
| | 14 | 14 | 14 | 14 | n14 | | 788 - 798 MHz | 758 - 768 MHz | 79.01 | 59.13 | 1.99 | 2.60 | ● |
| | | 17 | | 17 | | | 704 - 716 MHz | 734 - 746 MHz | 32.28 | 41.37 | 3.70 | 3.46 | ● |
| | | 18 | 18 | 18 | n18 | n18 | 815 - 830 MHz | 860 - 875 MHz | 86.72 | 69.60 | 1.26 | 1.72 | ● |
| | 19 | 19 | 19 | 19 | | | 830 - 845 MHz | 875 - 890 MHz | 79.69 | 63.15 | 1.26 | 2.04 | ● |
| | 20 | 20 | 20 | 20 | n20 | n20 | 832 - 862 MHz | 791 - 821 MHz | 76.41 | 84.39 | 1.39 | 1.96 | ● |
| | 21 | 21 | 21 | 21 | | | 1447.9 - 1462.9 MHz | 1495.9 - 1510.9 MHz | 4.44 | 9.86 | 3.84 | 3.22 | ● |
| | 22 | 22 | | | | | 3410 - 3490 MHz | 3510 - 3590 MHz | 28.51 | 25.17 | 2.04 | 2.21 | ● |
| | | 24 | 24 | 24 | n24 | | 1626.5 - 1660.5 MHz | 1525 - 1559 MHz | 37.86 | 20.02 | 1.98 | 3.15 | ● |
| | 25 | 25 | 25 | 25 | n25 | n25 | 1850 - 1915 MHz | 1930 - 1995 MHz | 43.62 | 51.26 | 1.92 | 1.92 | ● |
| | 26 | 26 | 26 | 26 | n26 | | 814 - 849 MHz | 859 - 894 MHz | 82.51 | 65.55 | 1.29 | 2.05 | ● |
| | | 27 | 27 | | | | 807 - 824 MHz | 852 - 869 MHz | 87.08 | 72.08 | 1.48 | 1.56 | ● |
| | | 28 | 28 | 28 | n28 | n28 | 703 - 748 MHz | 758 - 803 MHz | 36.91 | 70.90 | 3.73 | 2.60 | ● |

● Suitable band

● Adequate band in good signal conditions

● Likely to be unsuitable



Cellular Standards Band Support

| GSM (2G) Band | UMTS (3G) Band | E-UTRA (4G) Band | Cat M E-UTRA Band | Cat NB E-UTRA Band | NR (5G) Band | Cat NB NR (5G) Band | Uplink | Downlink | Average Upload Efficiency (%) | Average Download Efficiency (%) | Maximum Upload VSWR | Maximum Download VSWR | Use Indicator |
|---------------|----------------|------------------|-------------------|--------------------|--------------|---------------------|-------------------|-------------------|-------------------------------|---------------------------------|---------------------|-----------------------|---------------|
| | | 28A | | | | | 703 - 733 MHz | 758 - 788 MHz | 34.44 | 66.16 | 3.73 | 2.60 | ● |
| | | 29 | | | n29 | | N/A | 717 - 728 MHz | N/A | 35.63 | N/A | 3.63 | ● |
| | | 30 | | | n30 | | 2305 - 2315 MHz | 2350 - 2360 MHz | 39.73 | 37.27 | 1.84 | 1.89 | ● |
| | | 31 | 31 | 31 | | | 452.5 - 457.5 MHz | 462.5 - 467.5 MHz | 7.56 | 9.56 | 7.26 | 8.11 | ● |
| | 32 | 32 | | | | | N/A | 1452 - 1496 MHz | N/A | 6.37 | N/A | 3.84 | ● |
| | | 33 | | | | | 1900 - 1920 MHz | 1900 - 1920 MHz | 46.62 | 46.62 | 1.85 | 1.85 | ● |
| | | 34 | | | n34 | | 2010 - 2025 MHz | 2010 - 2025 MHz | 54.65 | 54.65 | 1.71 | 1.71 | ● |
| | | 35 | | | | | 1850 - 1910 MHz | 1850 - 1910 MHz | 43.35 | 43.35 | 1.92 | 1.92 | ● |
| | | 36 | | | | | 1930 - 1990 MHz | 1930 - 1990 MHz | 51.11 | 51.11 | 1.92 | 1.92 | ● |
| | | 37 | | | | | 1910 - 1930 MHz | 1910 - 1930 MHz | 47.73 | 47.73 | 1.88 | 1.88 | ● |
| | | 38 | | | n38 | | 2570 - 2620 MHz | 2570 - 2620 MHz | 30.71 | 30.71 | 2.30 | 2.30 | ● |
| | | 39 | 39 | | n39 | | 1880 - 1920 MHz | 1880 - 1920 MHz | 45.88 | 45.88 | 1.85 | 1.85 | ● |
| | | 40 | 40 | | n40 | | 2300 - 2400 MHz | 2300 - 2400 MHz | 37.25 | 37.25 | 1.90 | 1.90 | ● |
| | | 41 | 41 | 41 | n41 | n41 | 2496 - 2690 MHz | 2496 - 2690 MHz | 30.30 | 30.30 | 2.30 | 2.30 | ● |
| | | 42 | 42 | 42 | | | 3400 - 3600 MHz | 3400 - 3600 MHz | 26.83 | 26.83 | 2.27 | 2.27 | ● |
| | | 43 | 43 | 43 | | | 3600 - 3800 MHz | 3600 - 3800 MHz | 22.86 | 22.86 | 2.67 | 2.67 | ● |
| | | 44 | | | | | 703 - 803 MHz | 703 - 803 MHz | 53.65 | 53.65 | 3.73 | 3.73 | ● |
| | | 45 | | | | | 1447 - 1467 MHz | 1447 - 1467 MHz | 4.59 | 4.59 | 3.84 | 3.84 | ● |
| | | 46 | | | n46 | | 5150 - 5925 MHz | 5150 - 5925 MHz | 26.35 | 26.35 | 1.79 | 1.79 | ● |
| | | 47 | | | n47 | | 5855 - 5925 MHz | 5855 - 5925 MHz | 30.16 | 30.16 | 1.30 | 1.30 | ● |
| | | 48 | | | n48 | | 3550 - 3700 MHz | 3550 - 3700 MHz | 24.72 | 24.72 | 2.38 | 2.38 | ● |
| | | 49 | | | | | 3550 - 3700 MHz | 3550 - 3700 MHz | 24.72 | 24.72 | 2.38 | 2.38 | ● |
| | | 50 | | | n50 | | 1432 - 1517 MHz | 1432 - 1517 MHz | 6.73 | 6.73 | 3.84 | 3.84 | ● |
| | | 51 | | | n51 | | 1427 - 1432 MHz | 1427 - 1432 MHz | 3.51 | 3.51 | 3.50 | 3.50 | ● |
| | | 52 | | | | | 3300 - 3400 MHz | 3300 - 3400 MHz | 30.10 | 30.10 | 1.80 | 1.80 | ● |

● Suitable band

● Adequate band in good signal conditions

● Likely to be unsuitable



Cellular Standards Band Support

| GSM (2G) Band | UMTS (3G) Band | E-UTRA (4G) Band | Cat M E-UTRA Band | Cat NB E-UTRA Band | NR (5G) Band | Cat NB NR (5G) Band | Uplink | Downlink | Average Upload Efficiency (%) | Average Download Efficiency (%) | Maximum Upload VSWR | Maximum Download VSWR | Use Indicator |
|---------------|----------------|------------------|-------------------|--------------------|--------------|---------------------|-------------------|-------------------|-------------------------------|---------------------------------|---------------------|-----------------------|---------------|
| | | 53 | | | n53 | | 2483.5 - 2495 MHz | 2483.5 - 2495 MHz | 27.07 | 27.07 | 2.18 | 2.18 | ● |
| | | 65 | | 65 | n65 | n65 | 1920 - 2010 MHz | 2110 - 2200 MHz | 51.42 | 46.11 | 1.92 | 1.62 | ● |
| | | 66 | 66 | 66 | n66 | n66 | 1710 - 1780 MHz | 2110 - 2200 MHz | 37.87 | 46.11 | 1.83 | 1.62 | ● |
| | | 67 | | | n67 | | N/A | 738 - 758 MHz | N/A | 47.19 | N/A | 3.35 | ● |
| | | 68 | | | | | 698 - 728 MHz | 753 - 783 MHz | 33.09 | 62.61 | 3.88 | 2.80 | ● |
| | | 69 | | | | | N/A | 2570 - 2620 MHz | N/A | 30.71 | N/A | 2.30 | ● |
| | | 70 | | 70 | n70 | n70 | 1695 - 1710 MHz | 1995 - 2020 MHz | 39.63 | 54.37 | 1.86 | 1.90 | ● |
| | | 71 | 71 | 71 | n71 | | 663 - 698 MHz | 617 - 652 MHz | 26.09 | 18.47 | 4.88 | 5.57 | ● |
| | | 72 | 72 | 72 | | | 451 - 456 MHz | 461 - 466 MHz | 7.36 | 9.17 | 7.12 | 8.02 | ● |
| | | 73 | 73 | 73 | | | 450 - 455 MHz | 460 - 465 MHz | 7.23 | 8.90 | 7.02 | 7.95 | ● |
| | | 74 | 74 | 74 | n74 | | 1427 - 1470 MHz | 1475 - 1518 MHz | 4.20 | 9.07 | 3.84 | 3.42 | ● |
| | | 75 | | | n75 | | N/A | 1432 - 1517 MHz | N/A | 6.73 | N/A | 3.84 | ● |
| | | 76 | | | n76 | | N/A | 1427 - 1432 MHz | N/A | 3.51 | N/A | 3.50 | ● |
| | | | | | n77 | | 3300 - 4200 MHz | 3300 - 4200 MHz | 22.51 | 22.51 | 2.67 | 2.67 | ● |
| | | | | | n78 | | 3300 - 3800 MHz | 3300 - 3800 MHz | 25.90 | 25.90 | 2.67 | 2.67 | ● |
| | | | | | n79 | | 4400 - 5000 MHz | 4400 - 5000 MHz | 18.93 | 18.93 | 2.37 | 2.37 | ● |
| | | | | | n80 | | 1710 - 1785 MHz | N/A | 38.01 | N/A | 1.83 | N/A | ● |
| | | | | | n81 | | 880 - 915 MHz | N/A | 54.95 | N/A | 2.05 | N/A | ● |
| | | | | | n82 | | 832 - 862 MHz | N/A | 76.41 | N/A | 1.39 | N/A | ● |
| | | | | | n83 | | 703 - 748 MHz | N/A | 36.91 | N/A | 3.73 | N/A | ● |
| | | | | | n84 | | 1920 - 1980 MHz | N/A | 50.52 | N/A | 1.88 | N/A | ● |
| | | 85 | 85 | 85 | n85 | | 698 - 716 MHz | 728 - 746 MHz | 31.49 | 40.25 | 3.88 | 3.56 | ● |
| | | | | | n86 | | 1710 - 1780 MHz | N/A | 37.87 | N/A | 1.83 | N/A | ● |
| | | 87 | 87 | 87 | | | 410 - 415 MHz | 420 - 425 MHz | 10.24 | 6.50 | 5.54 | 3.33 | ● |
| | | 88 | 88 | 88 | | | 412 - 417 MHz | 422 - 427 MHz | 9.28 | 6.39 | 5.09 | 3.43 | ● |

● Suitable band

● Adequate band in good signal conditions

● Likely to be unsuitable



Cellular Standards Band Support

| GSM (2G) Band | UMTS (3G) Band | E-UTRA (4G) Band | Cat M E-UTRA Band | Cat NB E-UTRA Band | NR (5G) Band | Cat NB NR (5G) Band | Uplink | Downlink | Average Upload Efficiency (%) | Average Download Efficiency (%) | Maximum Upload VSWR | Maximum Download VSWR | Use Indicator |
|---------------|----------------|------------------|-------------------|--------------------|--------------|---------------------|---------------------|-----------------|-------------------------------|---------------------------------|---------------------|-----------------------|---------------|
| | | | | | n89 | | 824 - 849 MHz | N/A | 80.40 | N/A | 1.27 | N/A | ● |
| | | | | | n90 | n90 | 2496 - 2690 MHz | 2496 - 2690 MHz | 30.30 | 30.30 | 2.30 | 2.30 | ● |
| | | | | | n91 | | 832 - 862 MHz | 1427 - 1432 MHz | 76.41 | 3.51 | 1.39 | 3.50 | ● |
| | | | | | n92 | | 832 - 862 MHz | 1432 - 1517 MHz | 76.41 | 6.73 | 1.39 | 3.84 | ● |
| | | | | | n93 | | 880 - 915 MHz | 1427 - 1432 MHz | 54.95 | 3.51 | 2.05 | 3.50 | ● |
| | | | | | n94 | | 880 - 915 MHz | 1432 - 1517 MHz | 54.95 | 6.73 | 2.05 | 3.84 | ● |
| | | | | | n95 | | 2010 - 2025 MHz | N/A | 54.65 | N/A | 1.71 | N/A | ● |
| | | | | | n97 | | 2300 - 2400 MHz | N/A | 37.25 | N/A | 1.90 | N/A | ● |
| | | | | | n98 | | 1880 - 1920 MHz | N/A | 45.88 | N/A | 1.85 | N/A | ● |
| | | | | | n99 | | 1626.5 - 1660.5 MHz | N/A | 37.86 | N/A | 1.98 | N/A | ● |
| | | | | | n101 | | 1900 - 1910 MHz | 1900 - 1910 MHz | 46.11 | 46.11 | 1.72 | 1.72 | ● |
| | | | | 103 | | | 787 - 788 MHz | 757 - 758 MHz | 75.74 | 54.96 | 2.00 | 2.64 | ● |

● Suitable band

● Adequate band in good signal conditions

● Likely to be unsuitable

NOTE: For each frequency band, Siretta provides a traffic light indication to show the suitability of the antenna for use at that frequency band. Determination of exactly what makes an antenna good or bad at any frequency is subjective.

The view presented is that of Siretta's engineering team having taken into account the efficiency and VSWR measurements. The end user is advised to use their own criteria and/or testing to confirm suitability.



ISM Standards Frequency Support

| Application | Frequency Range | Efficiency (%) | Maximum VSWR | Peak Gain from highest direction (dBi) | Use Indicator |
|-------------------------|---------------------|----------------|--------------|--|---------------|
| ISM 433 MHz | 433.05 - 434.79 MHz | 5.87 | 4.65 | -6.431 | ● |
| ISM 868 MHz | 863 - 870 MHz | 69.98 | 1.58 | 4.6795 | ● |
| ISM 915 MHz | 902 - 928 MHz | 46.83 | 2.01 | 3.747 | ● |
| ISM 2.4 GHz | 2400 - 2500 MHz | 29.09 | 2.18 | 3.24 | ● |
| Wi-Fi 2.4G | 2401 - 2483 MHz | 29.47 | 2.17 | 3.23 | ● |
| Wi-Fi 2.4G (USA) | 2401 - 2473 MHz | 29.76 | 2.17 | 3.23 | ● |
| Wi-Fi 2.4G (Japan) | 2401 - 2495 MHz | 29.16 | 2.18 | 3.23 | ● |
| Wi-Fi 5G (all channels) | 5150 - 5990 MHz | 26.52 | 1.79 | 2.36 | ● |
| Wi-Fi 5G (Ch 32-48) | 5150 - 5250 MHz | 20.25 | 1.79 | 0.98 | ● |
| Wi-Fi 5G (Ch 32-64) | 5150 - 5330 MHz | 20.76 | 1.79 | 1.04 | ● |
| Wi-Fi 5G (Ch 32-161) | 5150 - 5815 MHz | 25.68 | 1.79 | 2.3 | ● |
| Wi-Fi 5G (Ch 32-173) | 5150 - 5875 MHz | 26.09 | 1.79 | 2.3 | ● |
| ISM 5.8 GHz | 5725 - 5875 MHz | 30.44 | 1.29 | 2.29 | ● |

● Suitable band

● Adequate band in good signal conditions

● Likely to be unsuitable

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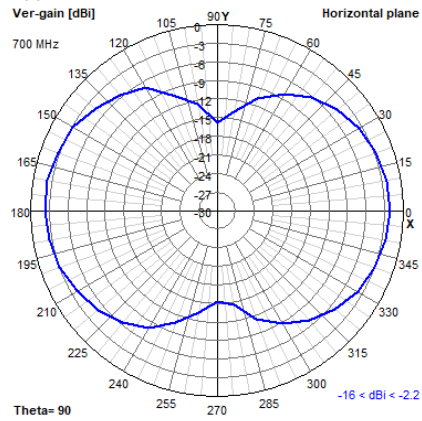


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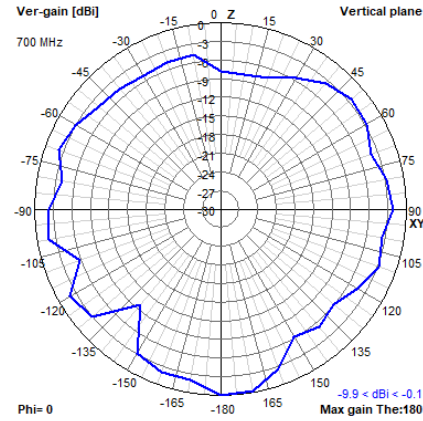
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2D Radiation Plots

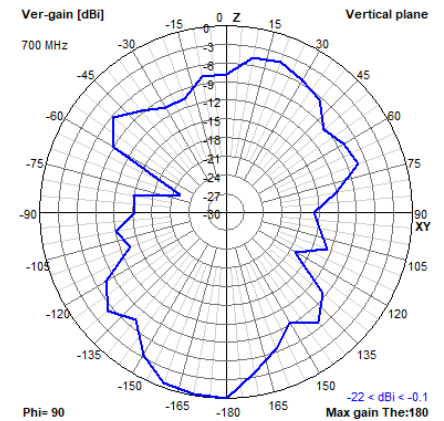
700 MHz XY



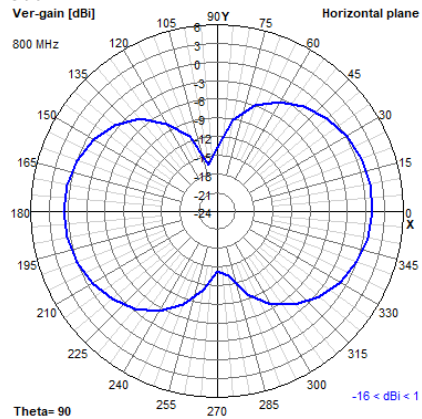
XZ



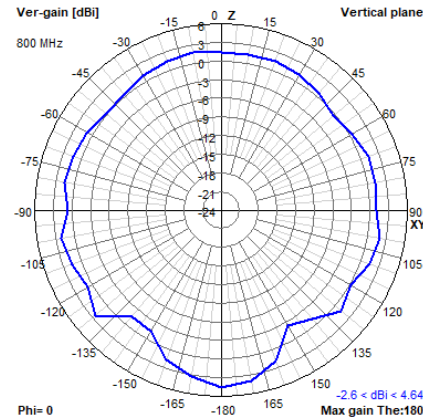
YZ



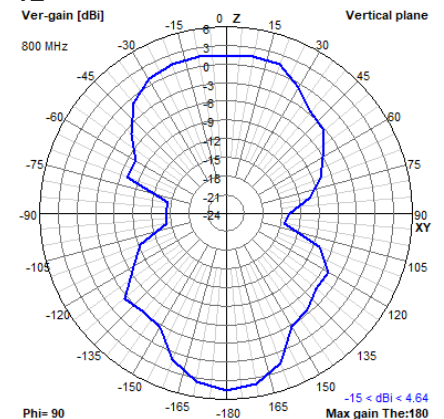
800 MHz XY



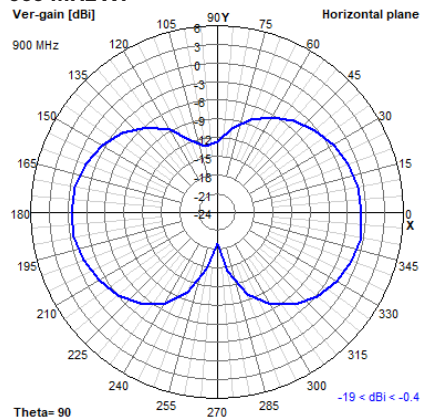
XZ



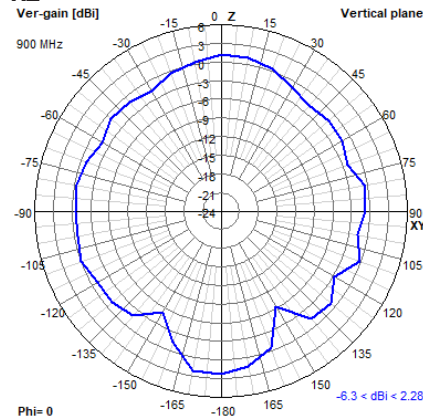
YZ



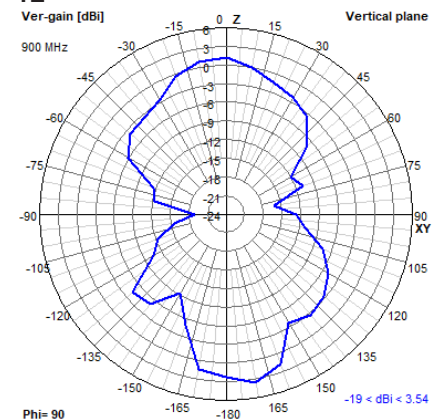
900 MHz XY



XZ



YZ



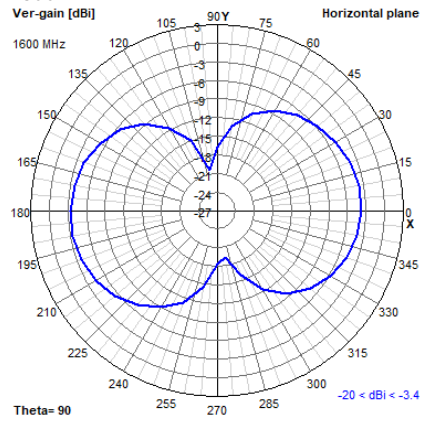


Alpha 40

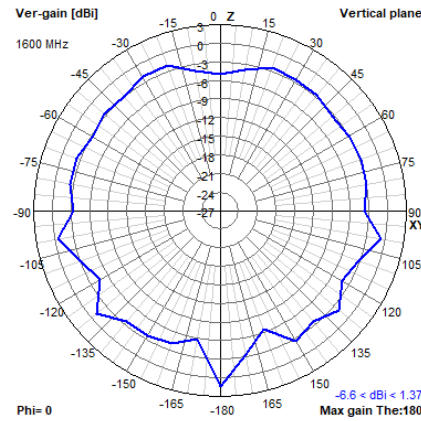
5G/4G/Dual Band Wi-Fi and ISM Adhesive T-bar Antenna

2D Radiation Plots

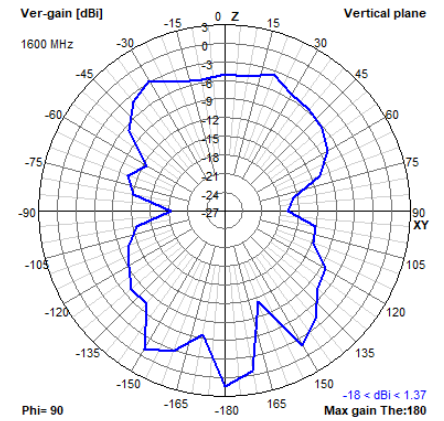
1600 MHz XY



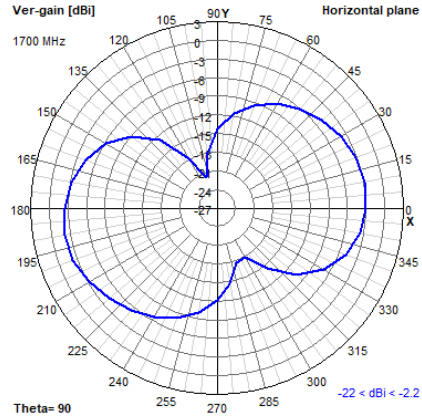
XZ



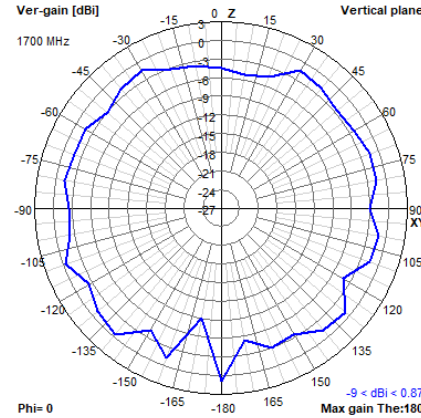
YZ



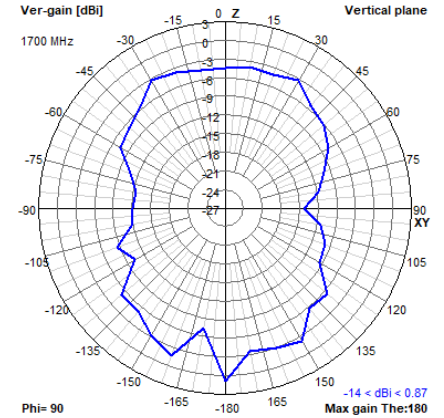
1700 MHz XY



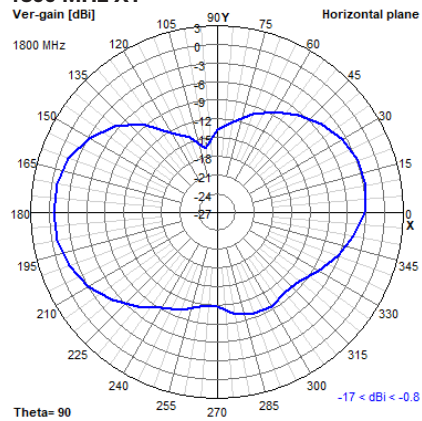
XZ



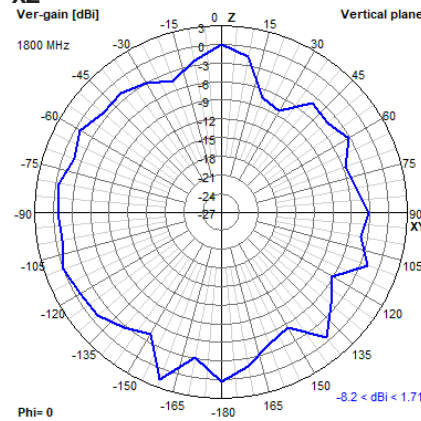
YZ



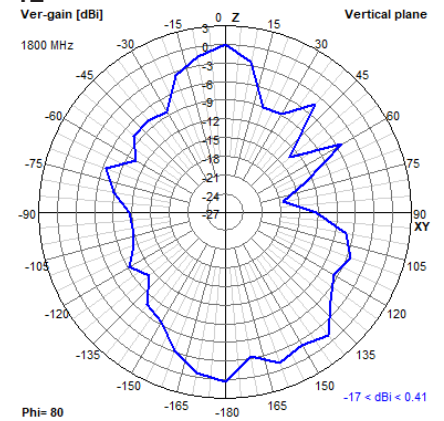
1800 MHz XY



XZ



YZ



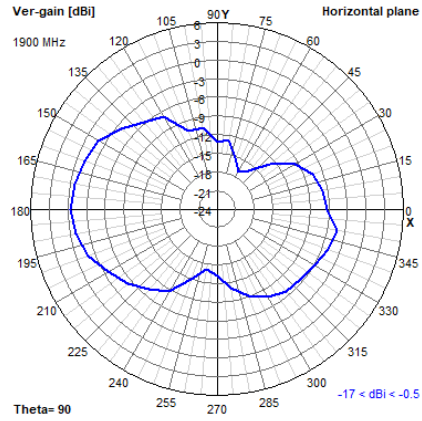


Alpha 40

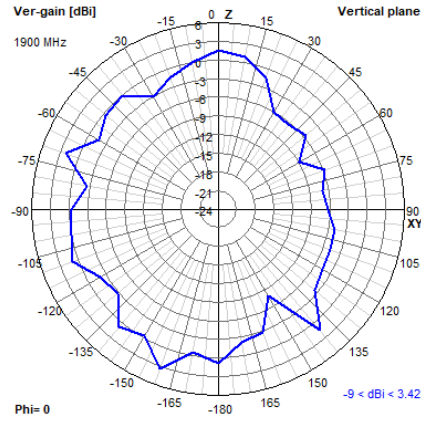
5G/4G/Dual Band Wi-Fi and ISM Adhesive T-bar Antenna

2D Radiation Plots

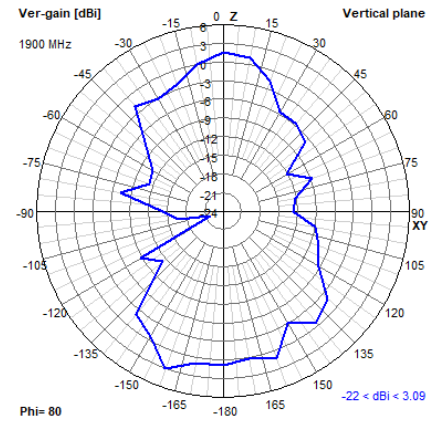
1900 MHz XY



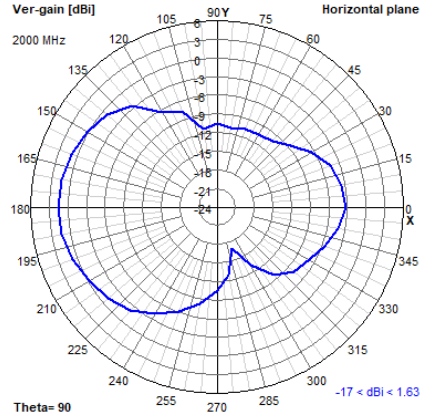
XZ



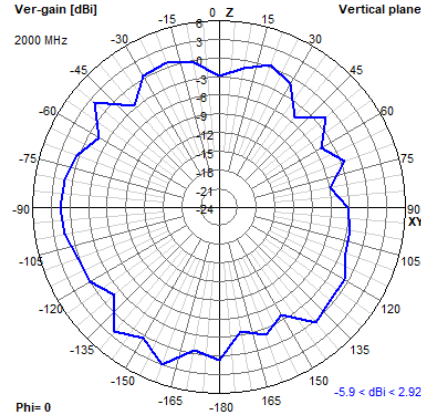
YZ



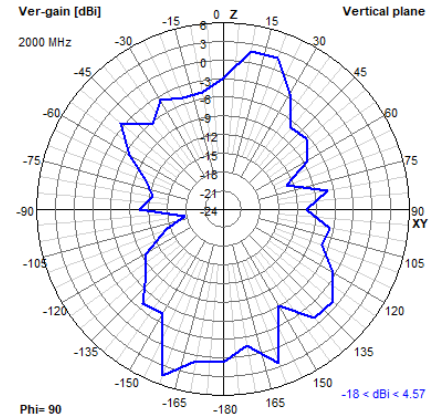
2000 MHz XY



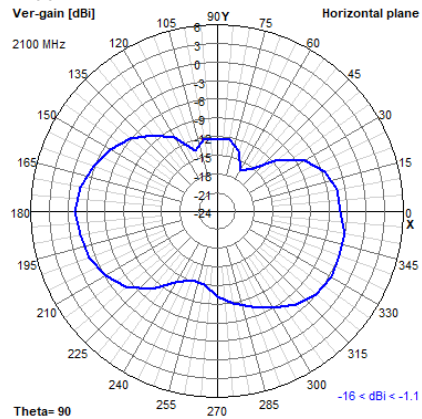
XZ



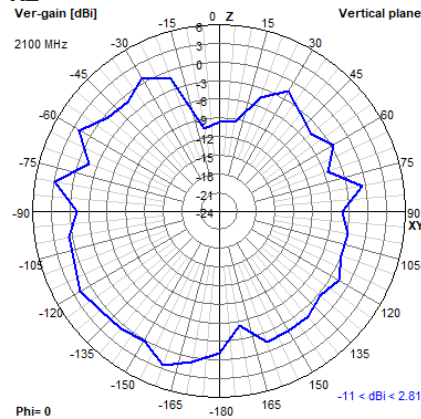
YZ



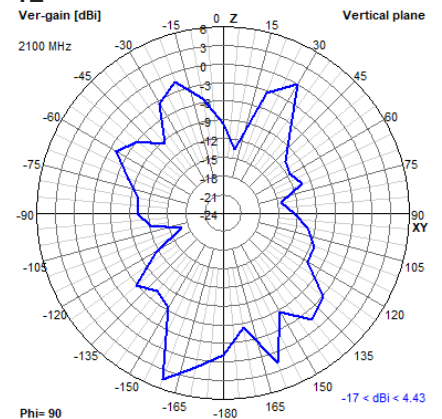
2100 MHz XY



XZ



YZ



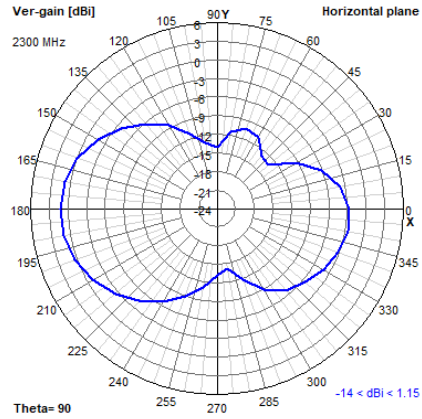


Alpha 40

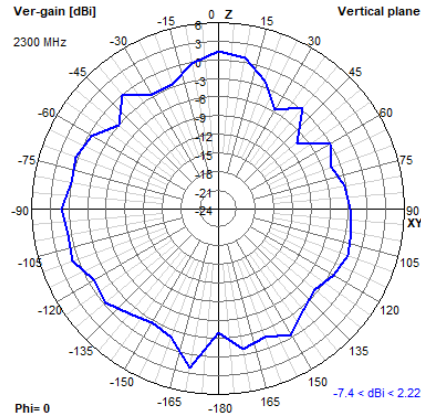
5G/4G/Dual Band Wi-Fi and ISM Adhesive T-bar Antenna

2D Radiation Plots

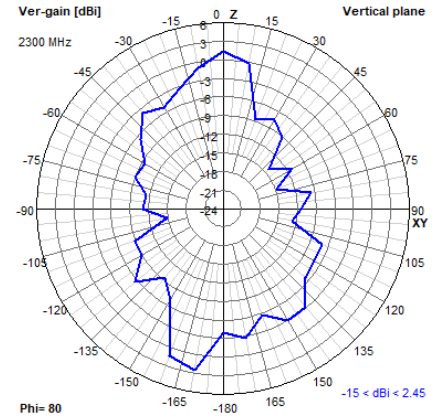
2300 MHz XY



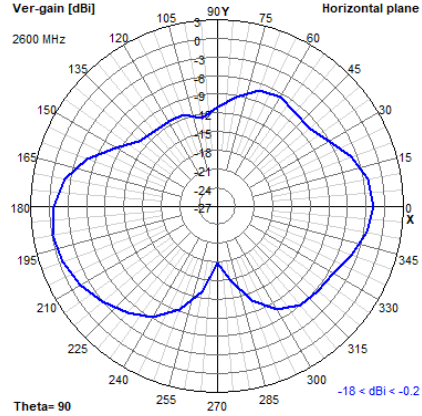
XZ



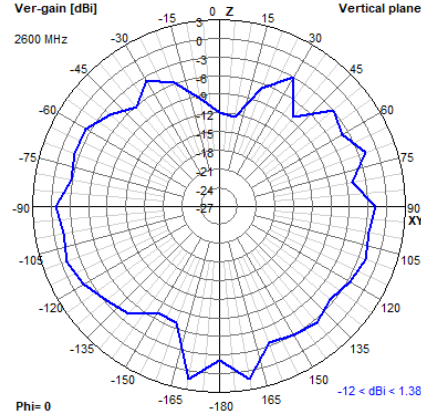
YZ



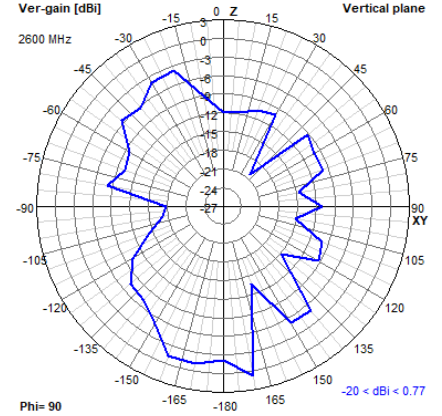
2600 MHz XY



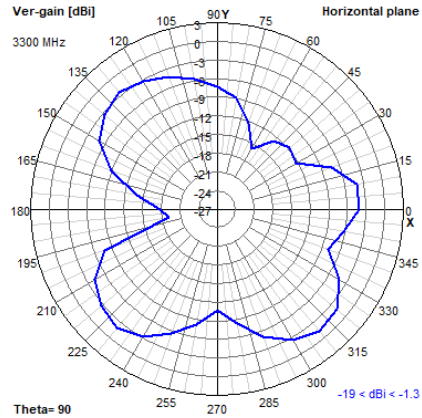
XZ



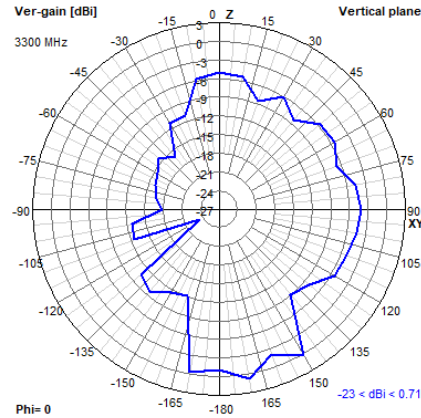
YZ



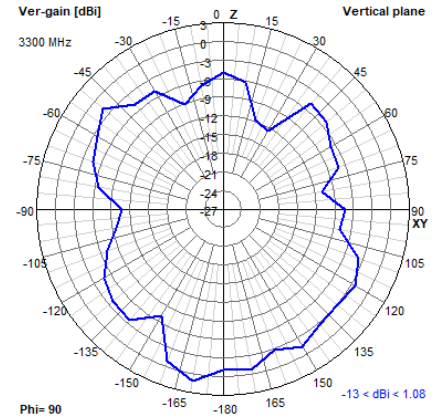
3300 MHz XY



XZ



YZ



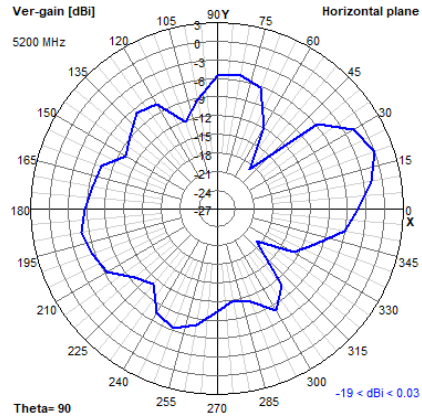


Alpha 40

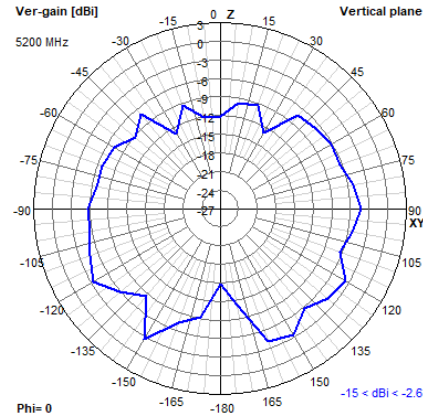
5G/4G/Dual Band Wi-Fi and ISM Adhesive T-bar Antenna

2D Radiation Plots

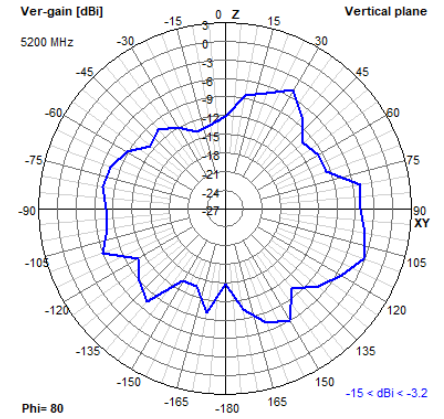
5200 MHz XY



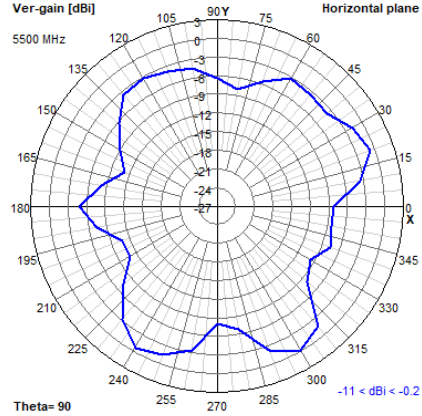
XZ



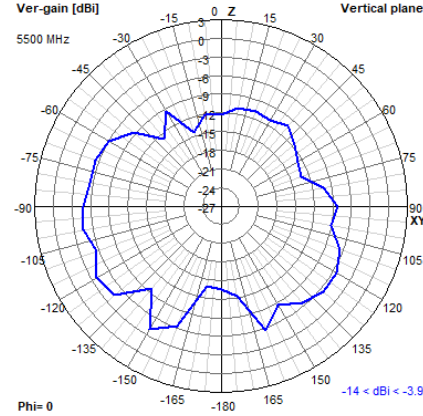
YZ



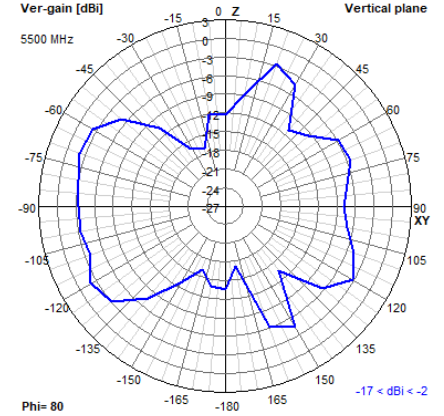
5500 MHz XY



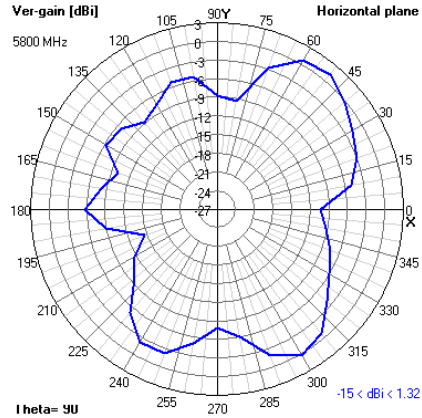
XZ



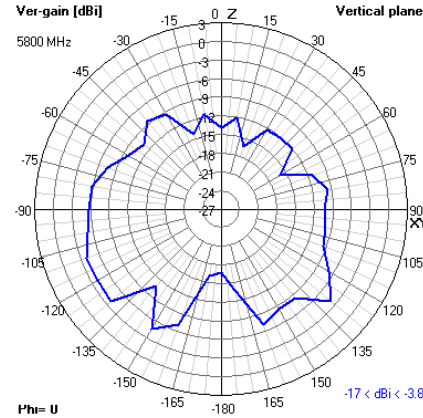
YZ



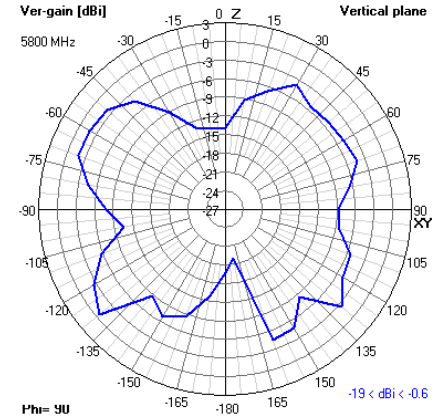
5800 MHz XY



XZ



YZ



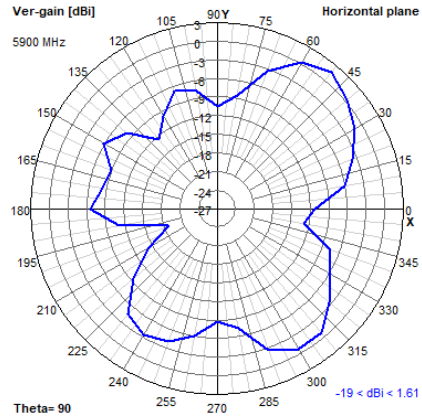


Alpha 40

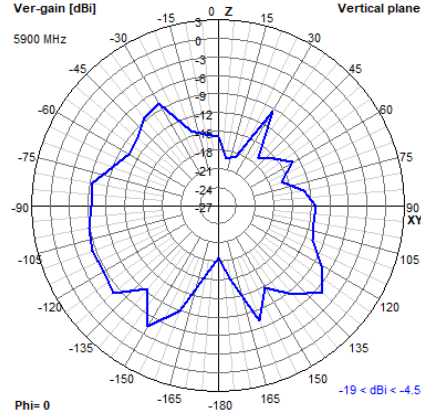
5G/4G/Dual Band Wi-Fi and ISM Adhesive T-bar Antenna

2D Radiation Plots

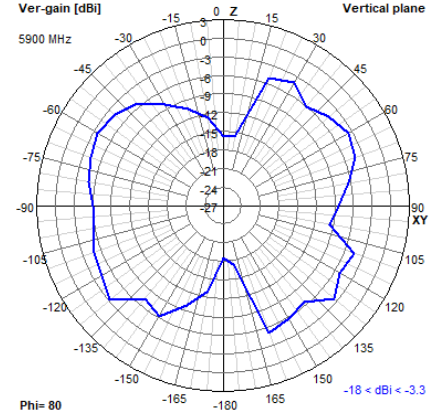
5900 MHz XY



XZ



YZ



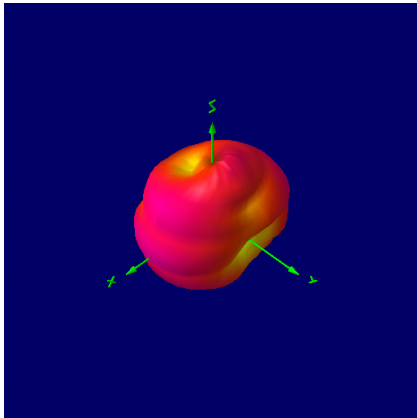


Alpha 40

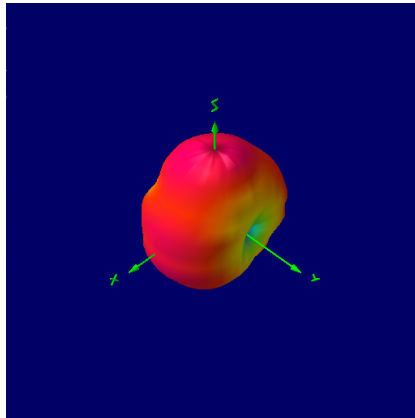
5G/4G/Dual Band Wi-Fi and ISM Adhesive T-bar Antenna

3D Radiation Plots

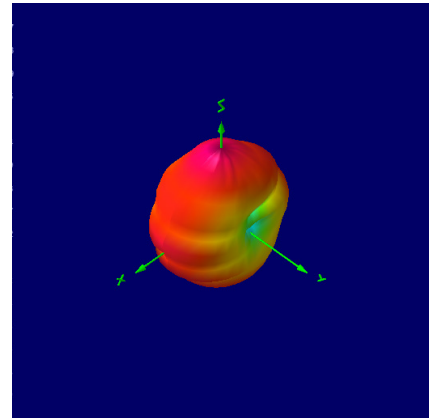
700 MHz



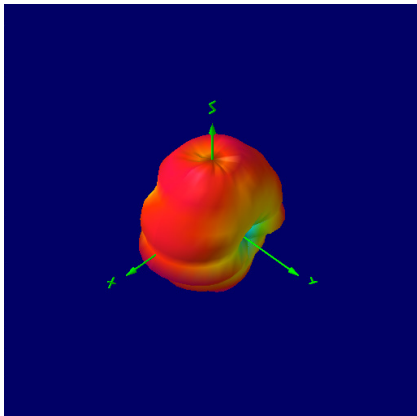
800 MHz



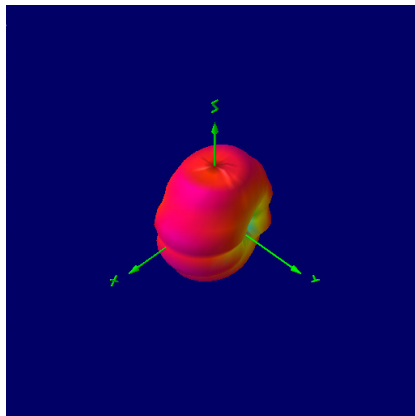
900 MHz



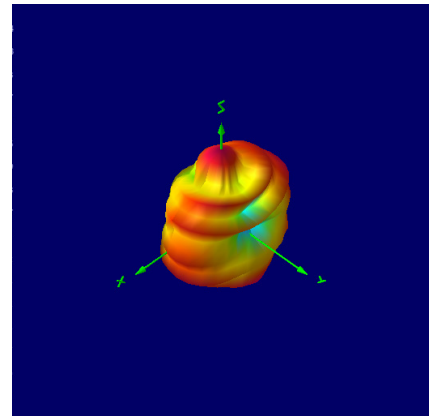
1600 MHz



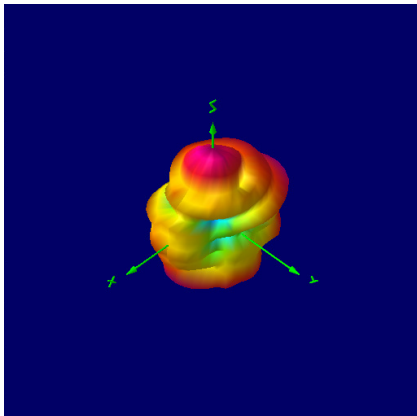
1700 MHz



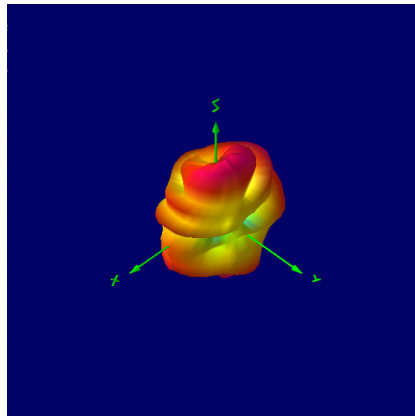
1800 MHz



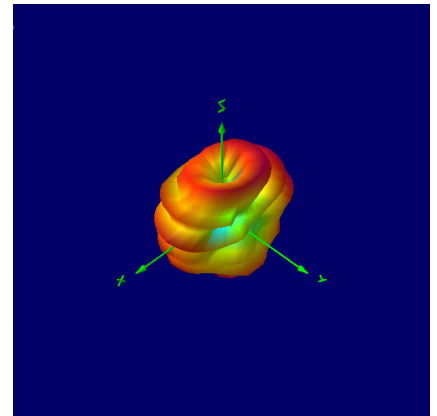
1900 MHz



2000 MHz



2100 MHz



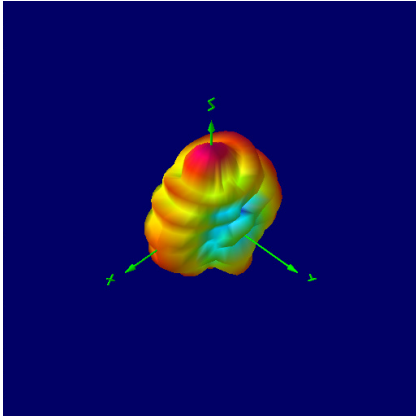


Alpha 40

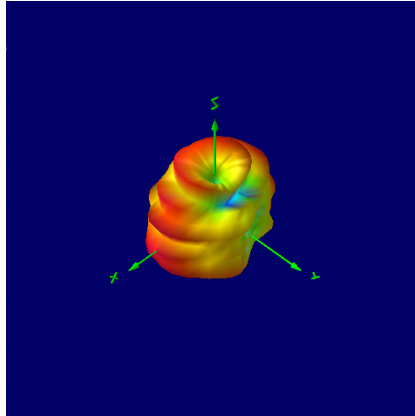
5G/4G/Dual Band Wi-Fi and ISM Adhesive T-bar Antenna

3D Radiation Plots

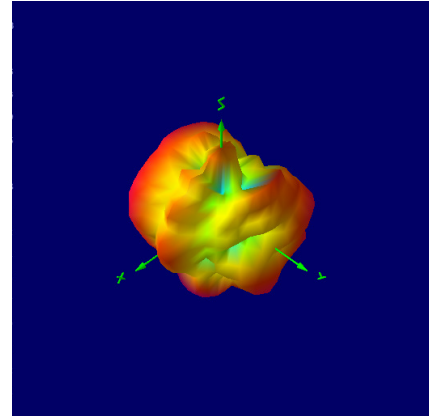
2300 MHz



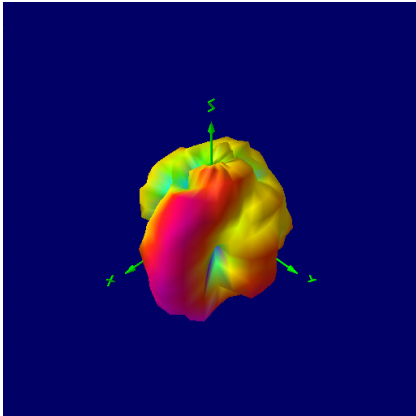
2600 MHz



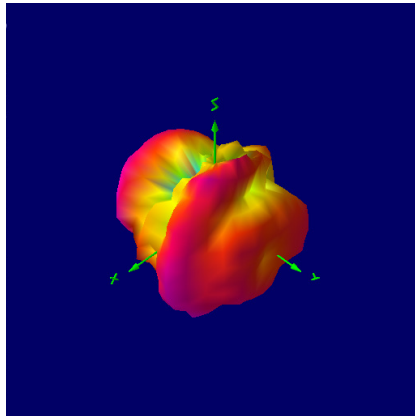
3300 MHz



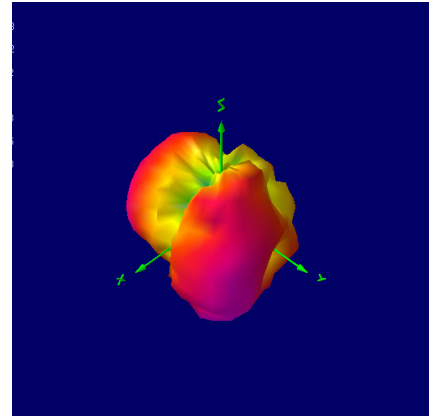
5200 MHz



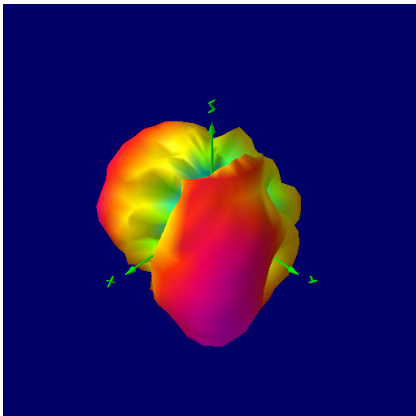
5500 MHz



5800 MHz



5900 MHz



NOTE: All 3D radiation plots are shown with Theta = 45 and Phi = 45.

