



**dynaflex**<sup>®</sup>  
MOBILE ANTENNAS

**616SE**

## 2.4-5 GHz DIPOLE ANTENNA

### MAIN FEATURES:

- Wide band
- Adhesive mount
- No ground plane required
- RoHS Compliant
- Good Efficiency
- Indoor use



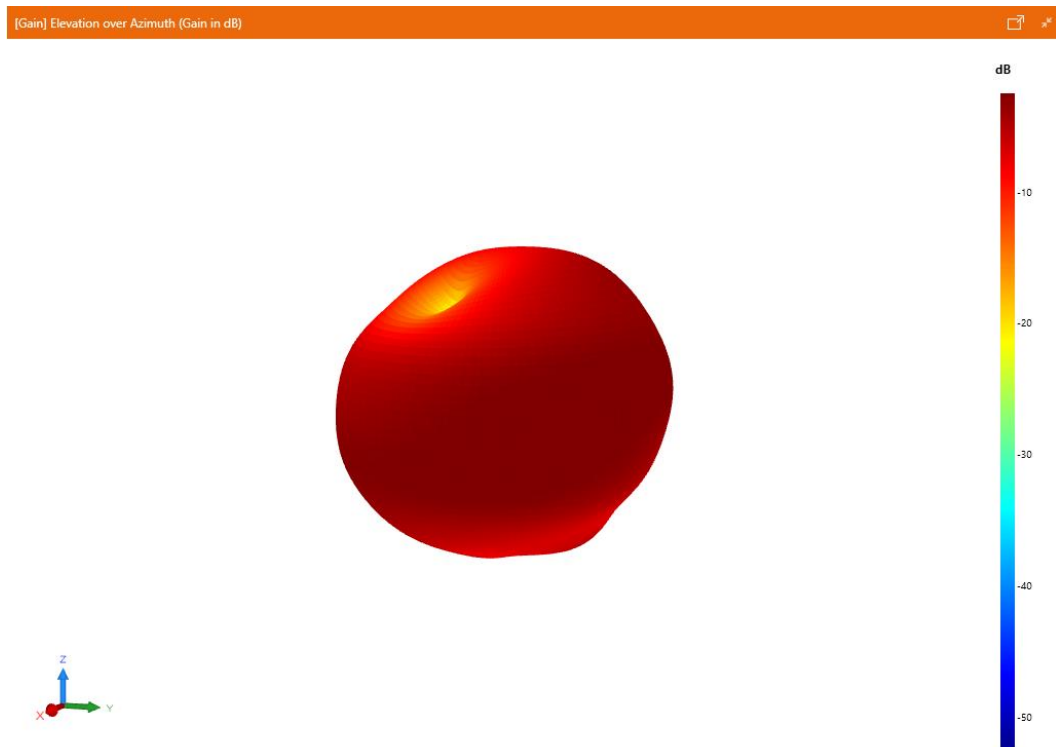
## Bands

2400-2480 MHz; 5000-5800 MHz

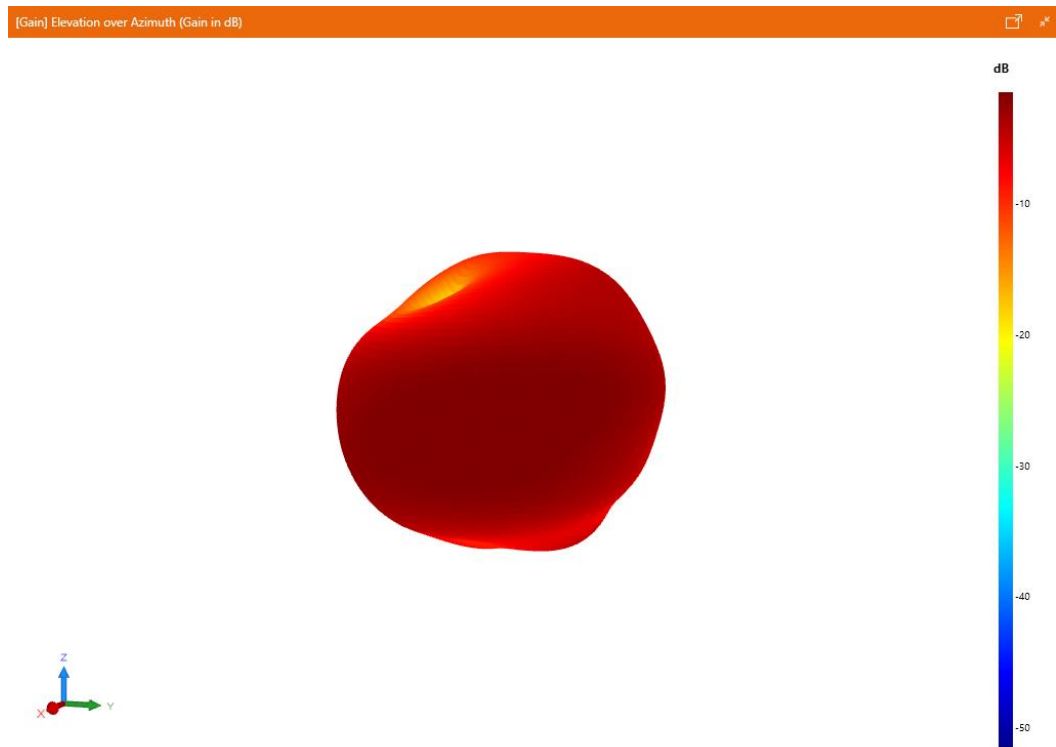
## Parameter

|                       |                 |
|-----------------------|-----------------|
| Dimension             | 41x9x1.4 mm     |
| Operating Temperature | -20/70 °C       |
| Cable type            | RG178/MICROCOAX |
| Cable length          | CUSTOM          |
| Connector             | CUSTOM          |
| Nominal impedance     | 50 Ohm          |

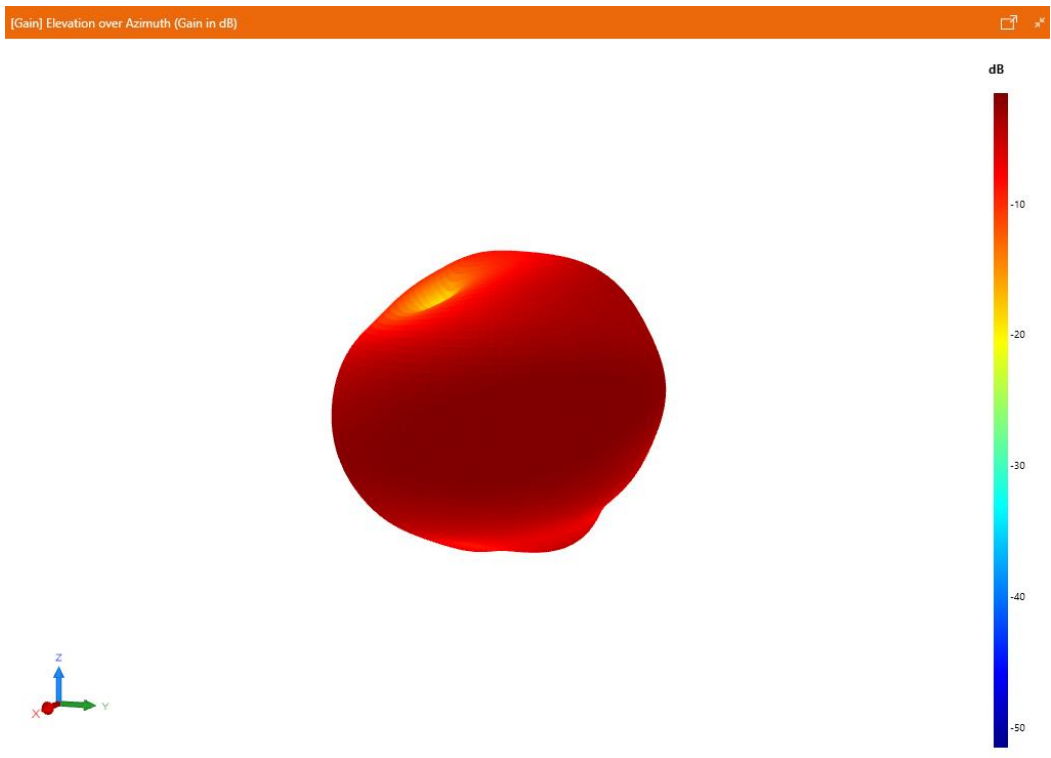
# 3D PATTERNS



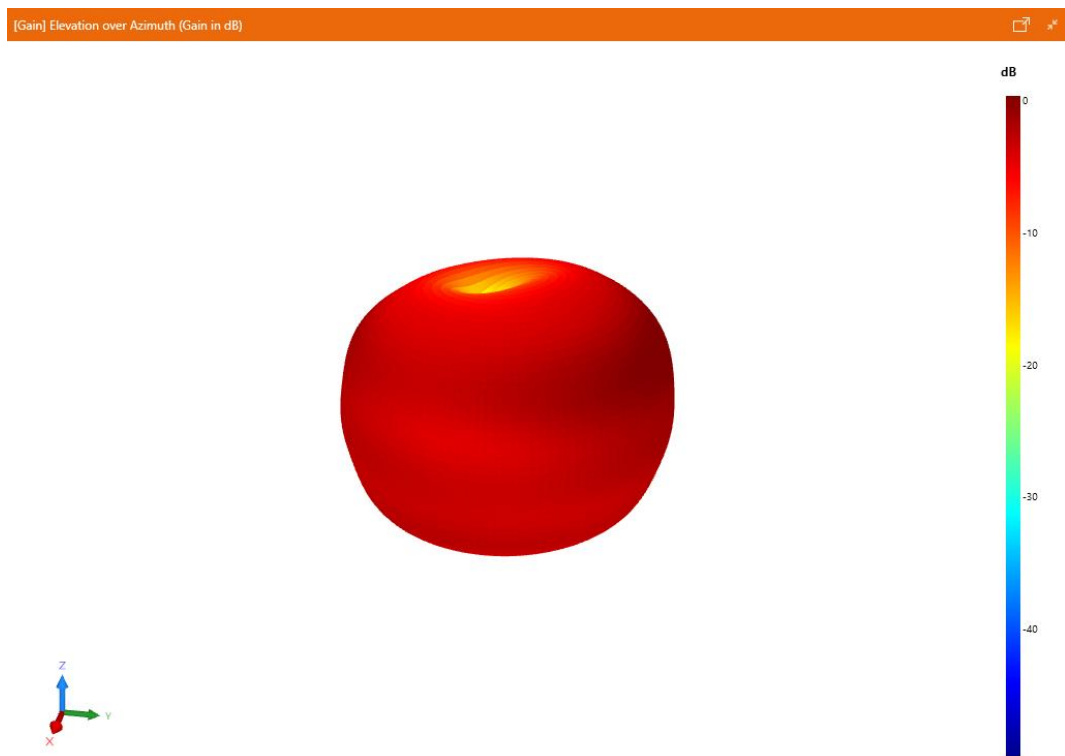
2400 MHz



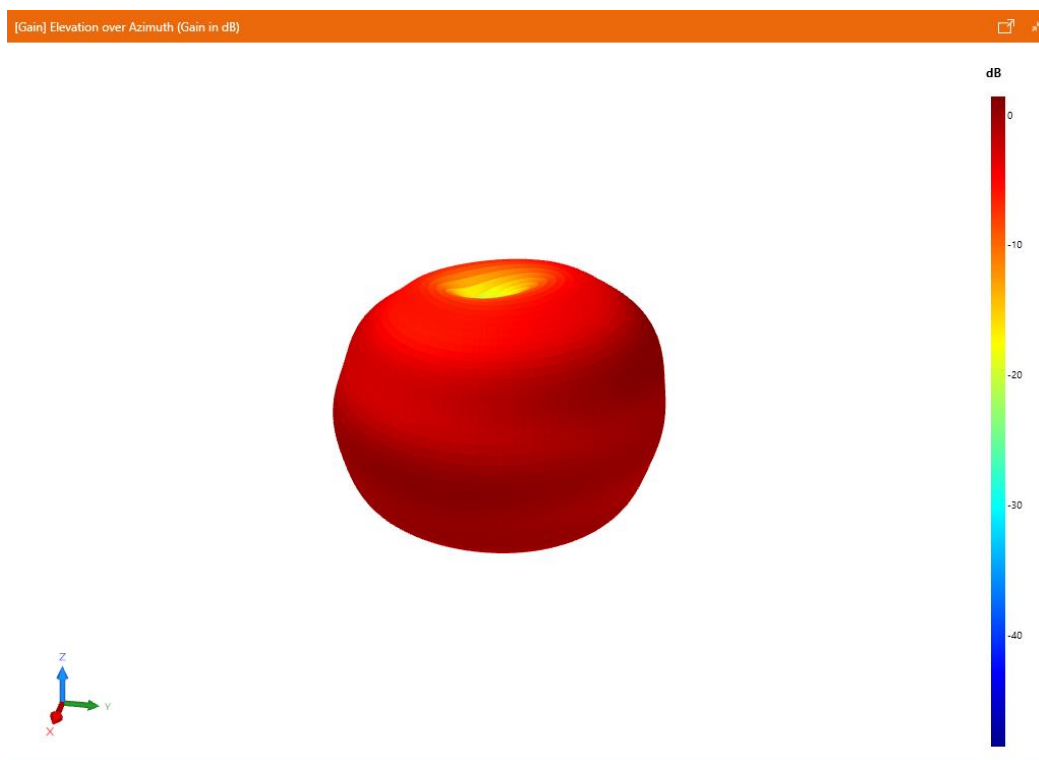
2440 MHz



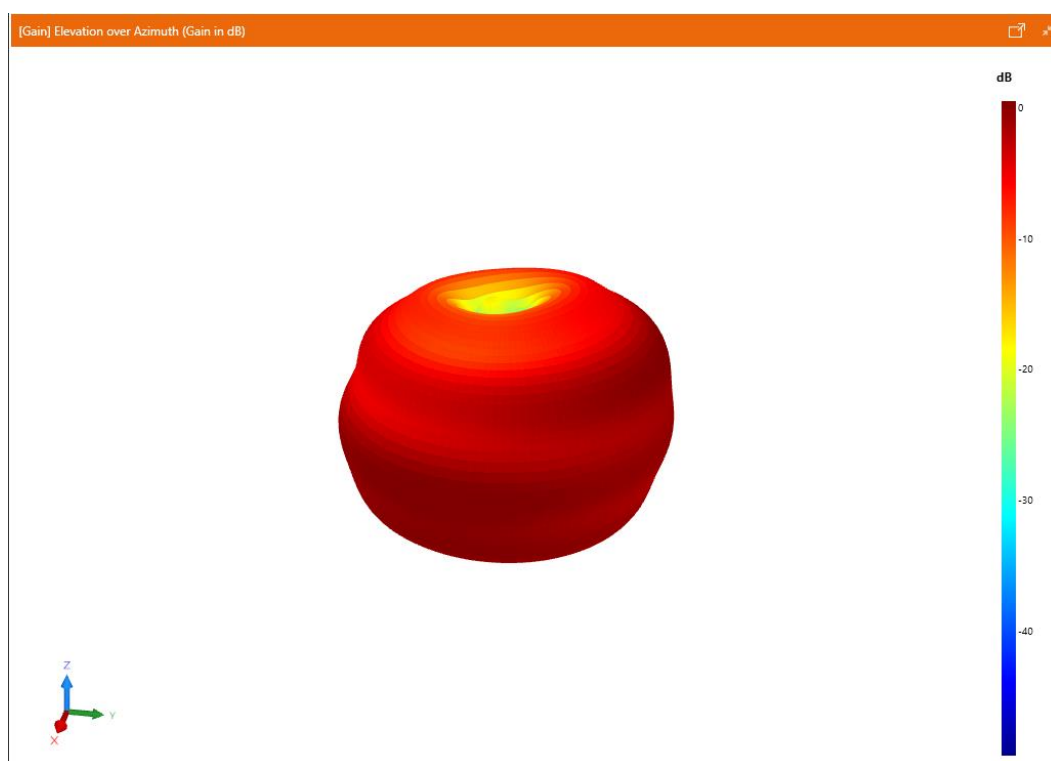
2480 MHz



5000 MHz

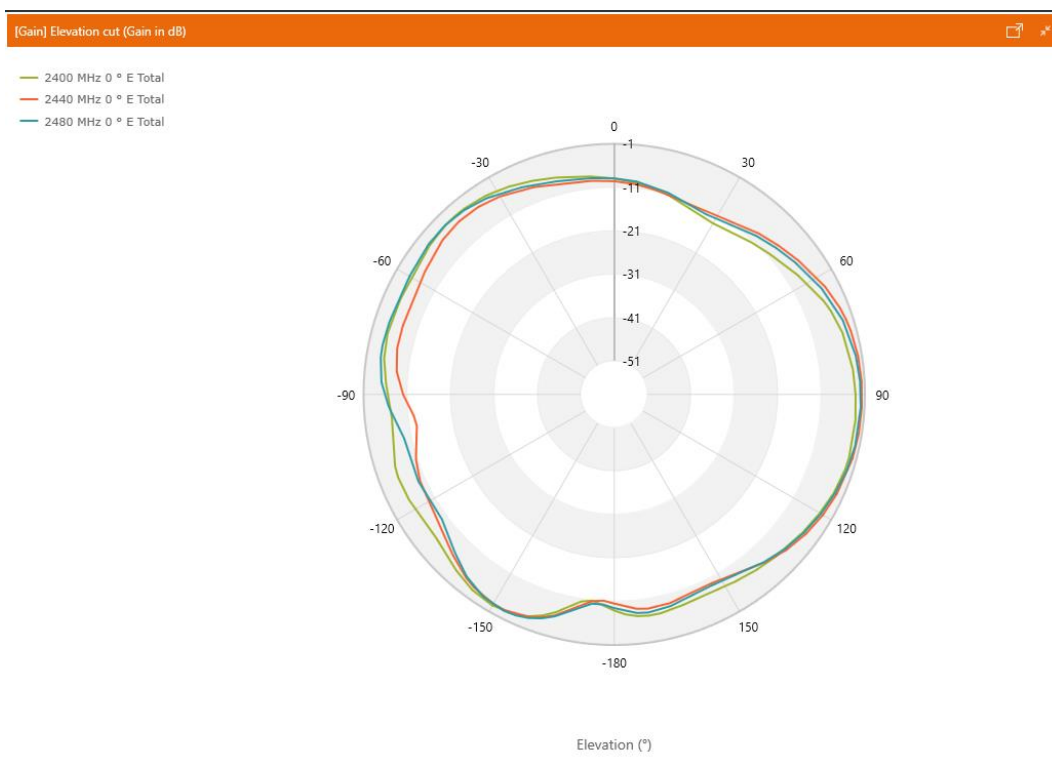


5300 MHz



5600 MHz

# POLAR PATTERNS



## 2400-2480 MHz ELEVATION 0°

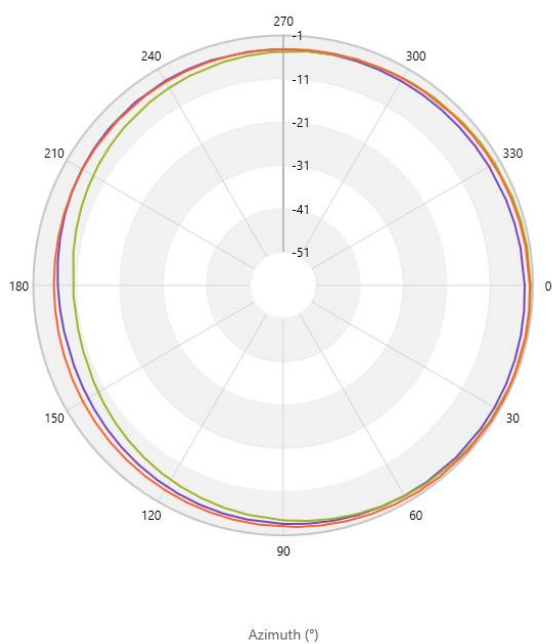


## 2400-2480 MHz ELEVATION 90°

[Gain] Azimuth cut (Gain in dB)



— 2400 MHz 90 ° E Total  
— 2440 MHz 90 ° E Total  
— 2480 MHz 90 ° E Total

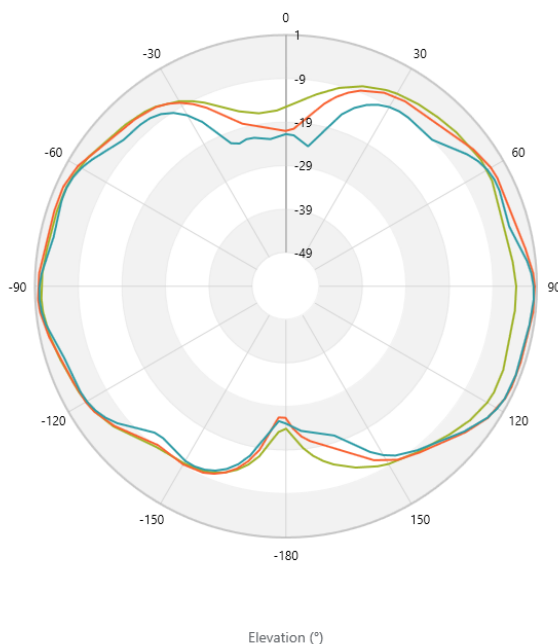


## 2400-2480 MHz AZIMUTH 90°

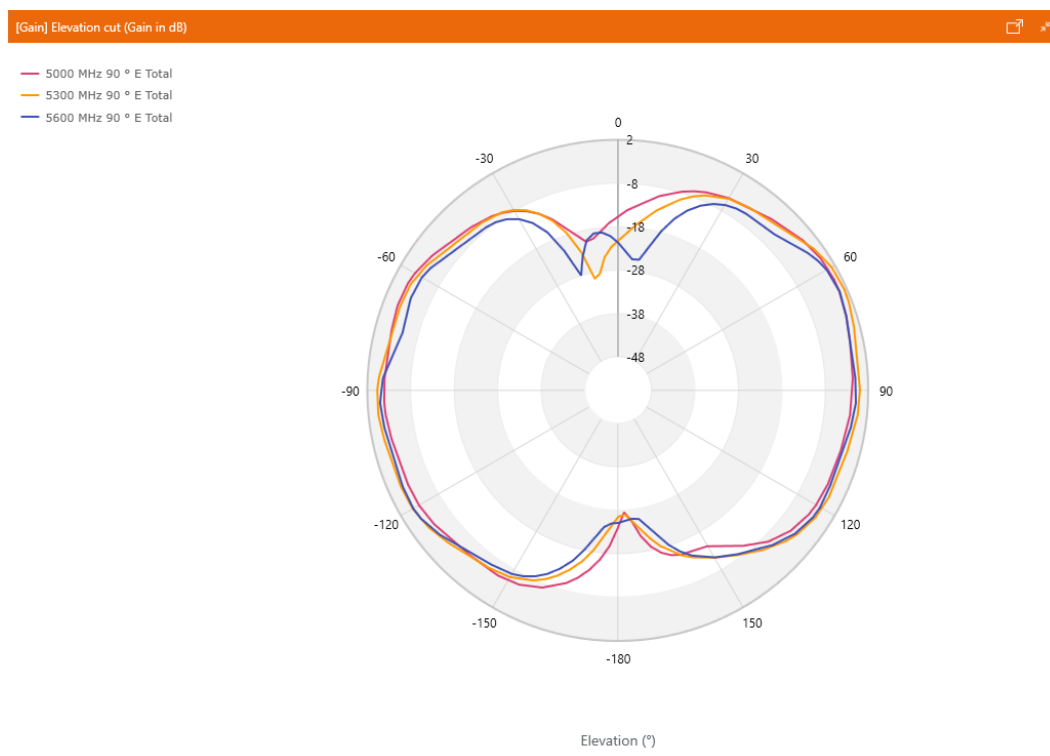
[Gain] Elevation cut (Gain in dB)



— 5000 MHz 0 ° E Total  
— 5300 MHz 0 ° E Total  
— 5600 MHz 0 ° E Total



## 5000-5600 MHz ELEVATION 0 °

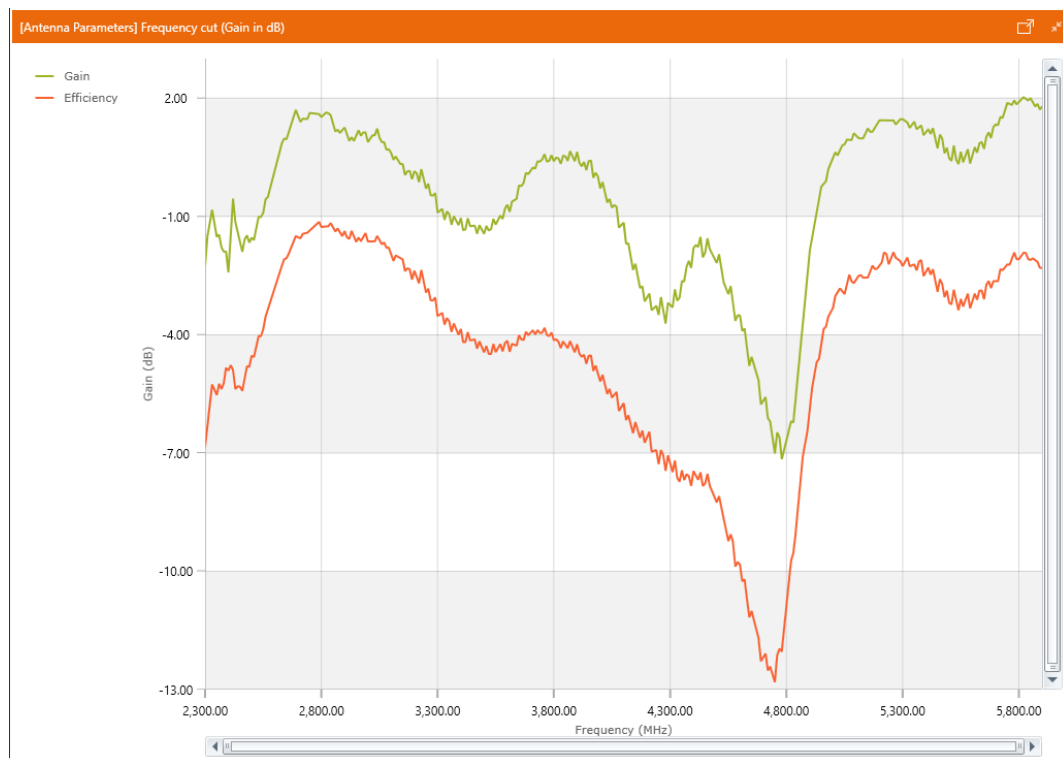


## 5000-5600 MHz ELEVATION 90°



## 5000-5600 MHz AZIMUTH 90°

# EFFICIENCY AND GAIN (dB)



- Patterns are obtained with a sample with 300mm long coaxial line

# COAXIAL LINE CHARACTERISTICS

|       | Dielectric strength<br>(Kv/Minute) | Insulation Resistance<br>(MOhm.km) | Impedance<br>(Ohm) | Capacitance<br>(pF/m) | Speed<br>(%) |
|-------|------------------------------------|------------------------------------|--------------------|-----------------------|--------------|
| Rg178 | 1.0                                | >3000                              | 50+/-2             | 95.8+/-5              | 0.695        |

# ATTENUATION CONSTANT dB/100m

|       | 1000 MHz | 1800 MHz | 2400 MHz | 5200 MHz | 6000 MHz |
|-------|----------|----------|----------|----------|----------|
| Rg178 | 18.0     | 26.0     | 29.0     | 45.0     | 49.0     |

