dynaflex®
MOBILE ANTENNAS

511

GPS/LTE ADHESIVE MOUNT ANTENNA

MAIN FEATURES:

- Low profile and small size
- Adhesive mount
- No ground required
- RoHS Compliant
- Indoor use

B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B30, B34, B35, B36, B37, B38, B39, B40, B41, B42, B43, B44, B48, B49, B52, B53, B65, B66, B68, B70, B85

Main electrical parameters

LTE section

MHz	700-750	824-960	1710-2170	2500-2700
Gain (dBi)	0	1.5	1.5	3.0
Efficiency	-5.5	-4.5	-3.0	-4.0
|S11| (dB)	<-7	<-10	<-12	<-8
Polarization	Linear	Linear	Linear	Linear

GPS section (patch antenna)

Characteristic	
Center Frequency	1575 MHz (+/- 1023)
Bandwidth (@10 dB return loss)	10 MHz (typ)
Gain @zenith	0.5 dBiC
Gain @ 10° elevation	-6 dBiC
Axial ratio	>1 dB

GPS section (lna and filter)

Characteristic	
Center Frequency	1575.42 MHz (+/- 1023)
Gain	32 dB @3V
Noise Figure	1.5 dB @3V
Filter out of band attenuation	F0+/- 20 MHz 7 dB F0+/- 50 MHz 20 dB F0+/-100 MHz 30 dB
V supply	2.5-5.5 V
Current sink	8-23 mA

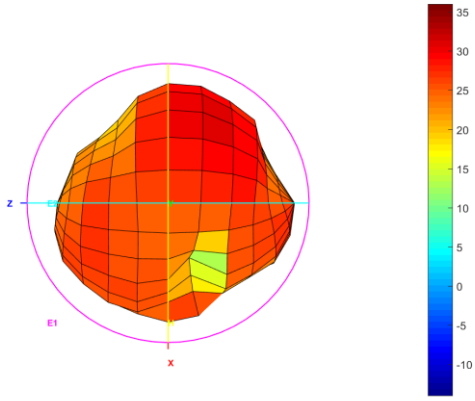
Other Parameters

Dimension	70x12 mm
Operating Temperature	-40/85 °C
Cable type	RG174
Connector	Fakra c (channel GNSS) Fakra d (channel LTE)
Cable length	3000mm

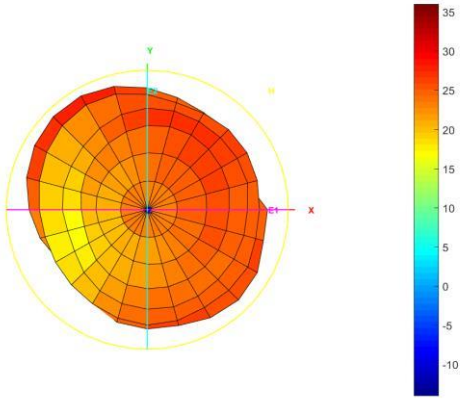
DIAGRAMS

Gps antenna 3d pattern

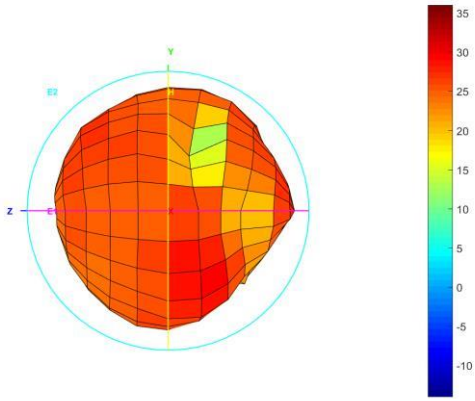
Total_3D_Top View_1.57542GHz



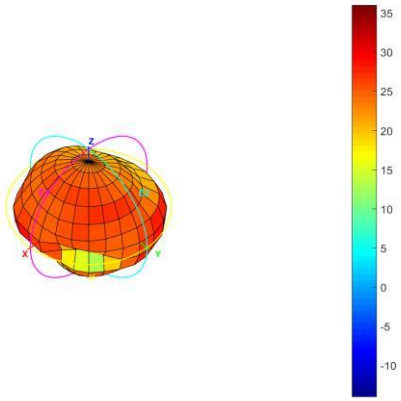
Total_3D_Front View_1.57542GHz



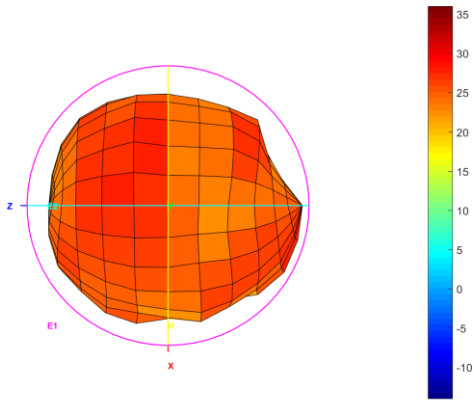
Total_3D_Left View_1.57542GHz



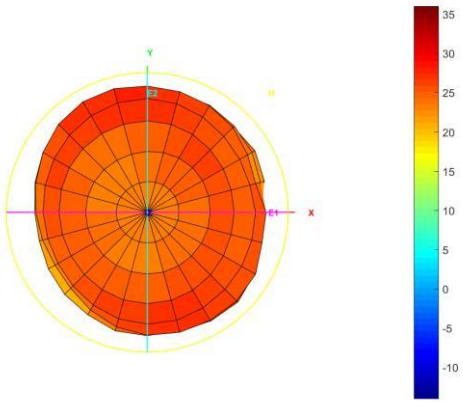
Total_3D_Side View 1_1.57542GHz



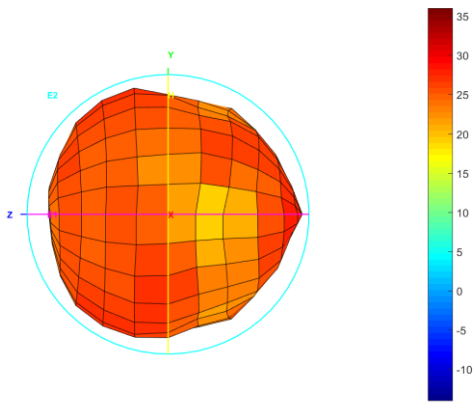
Total_3D_Top View_1.602GHz



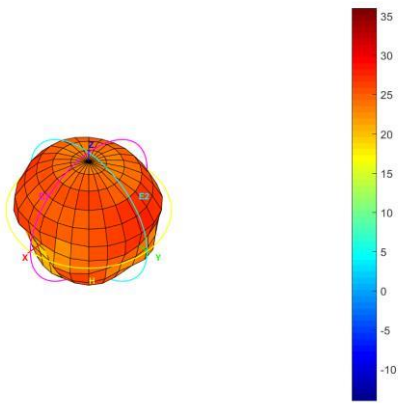
Total_3D_Front View_1.602GHz



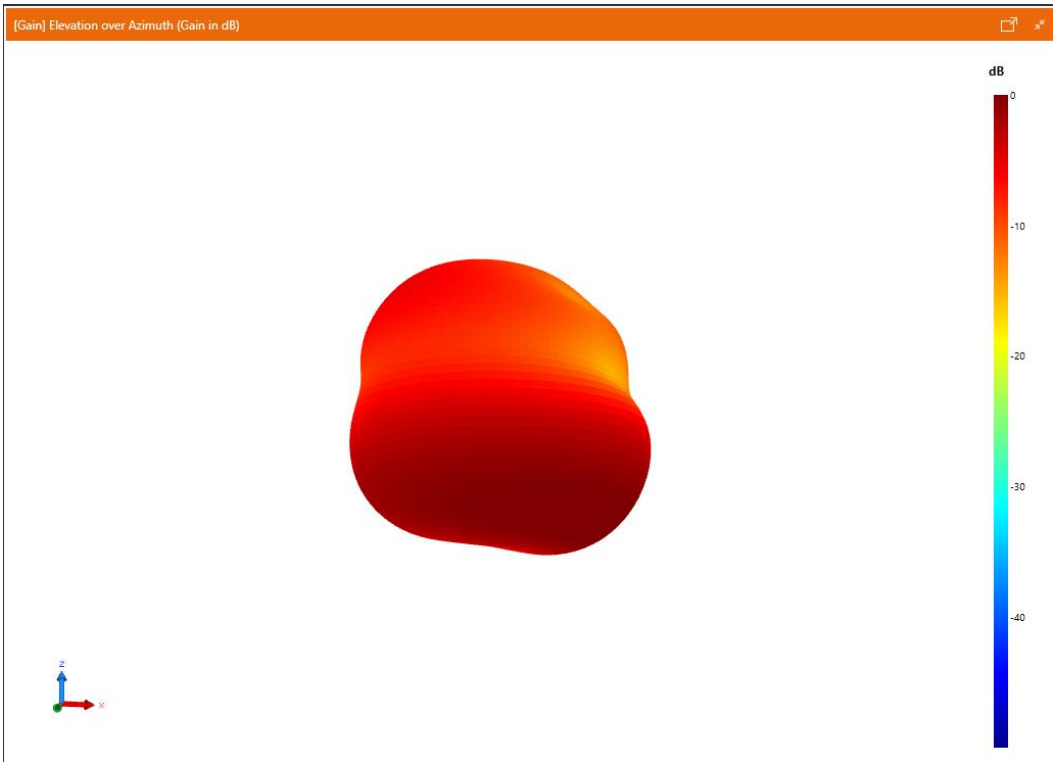
Total_3D_Left View_1.602GHz



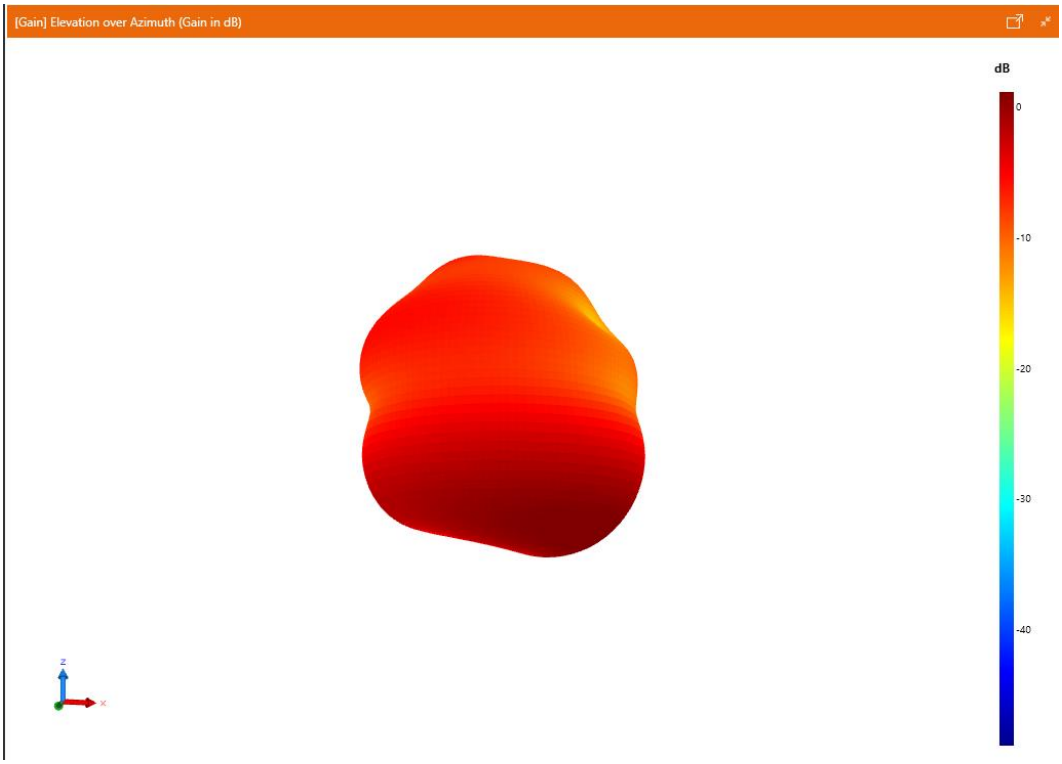
Total_3D_Side View 1_1.602GHz



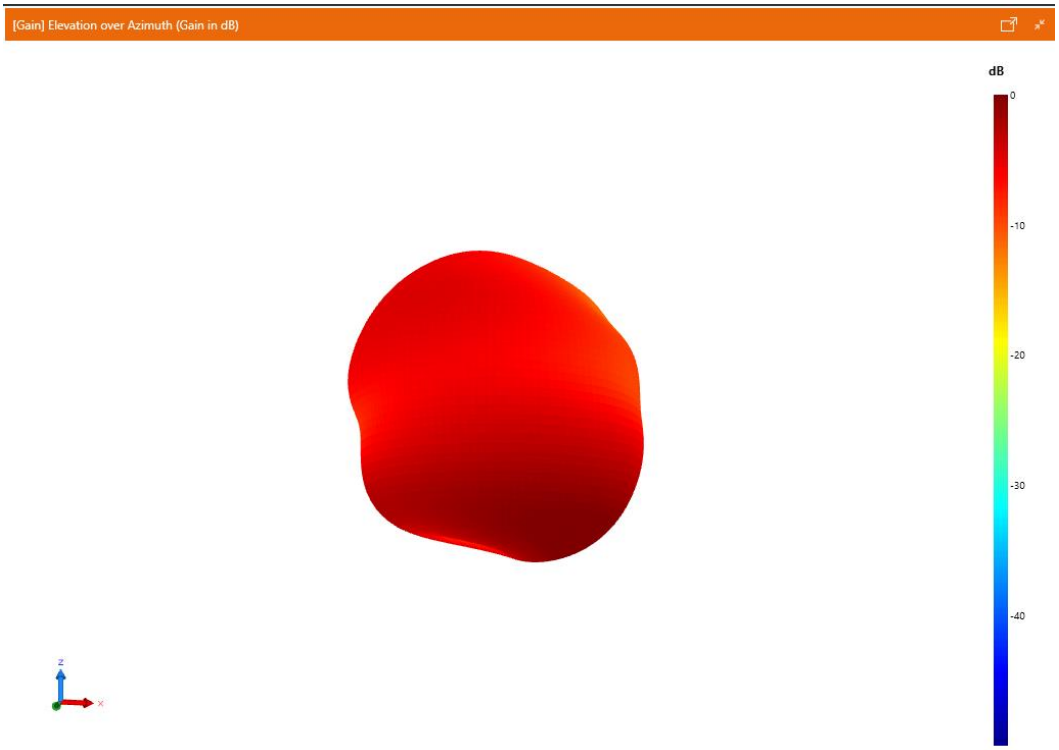
LTE antenna 3d pattern



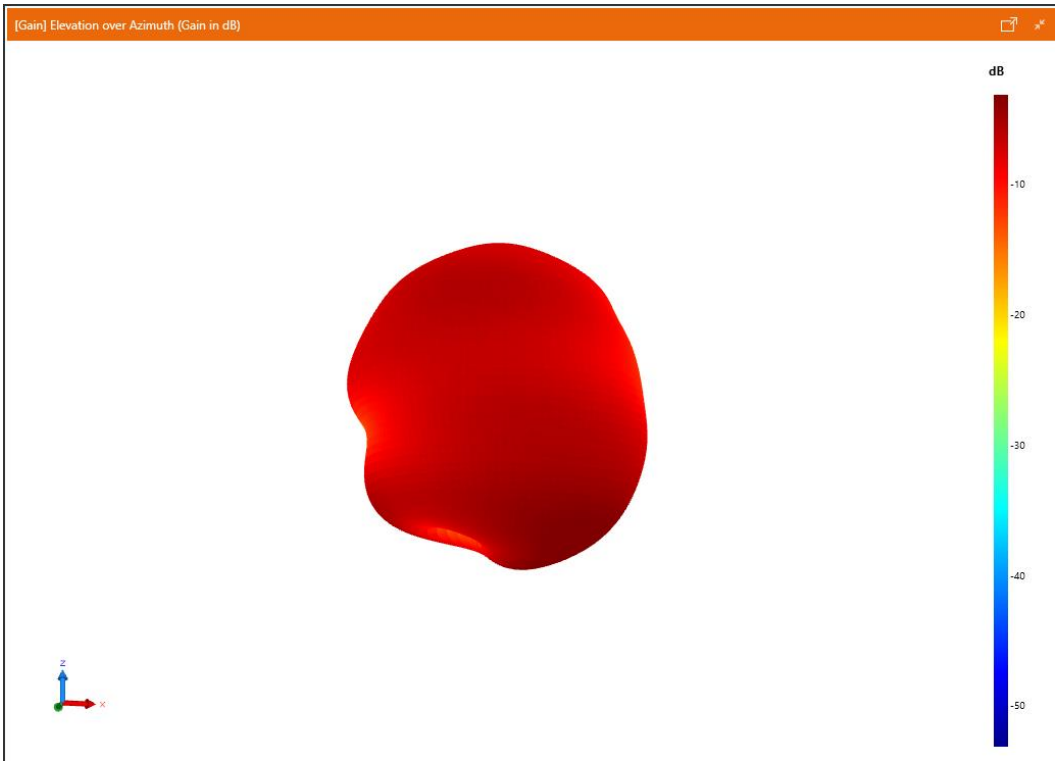
700 MHz



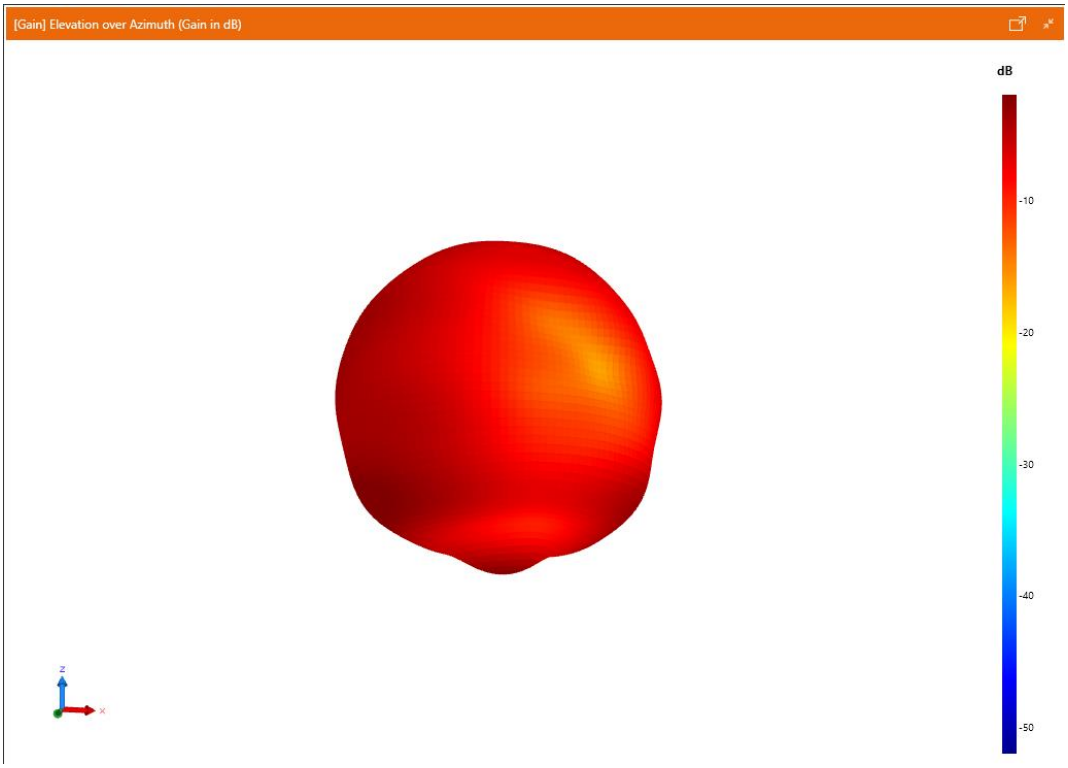
800 MHz



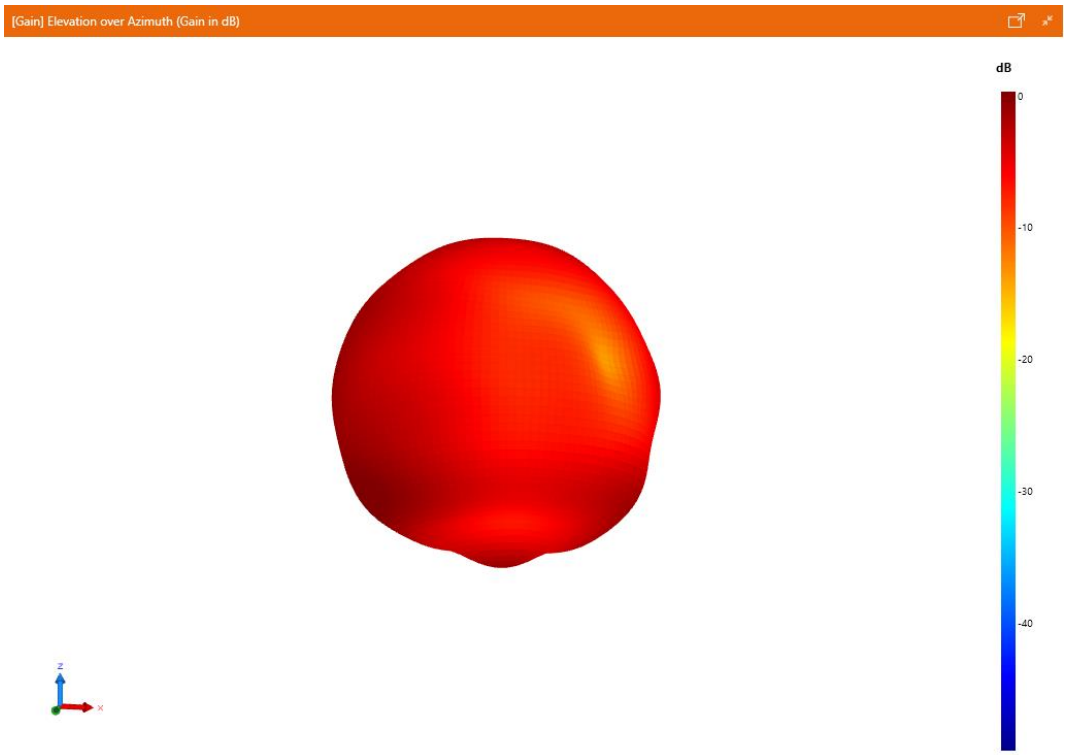
900 MHz



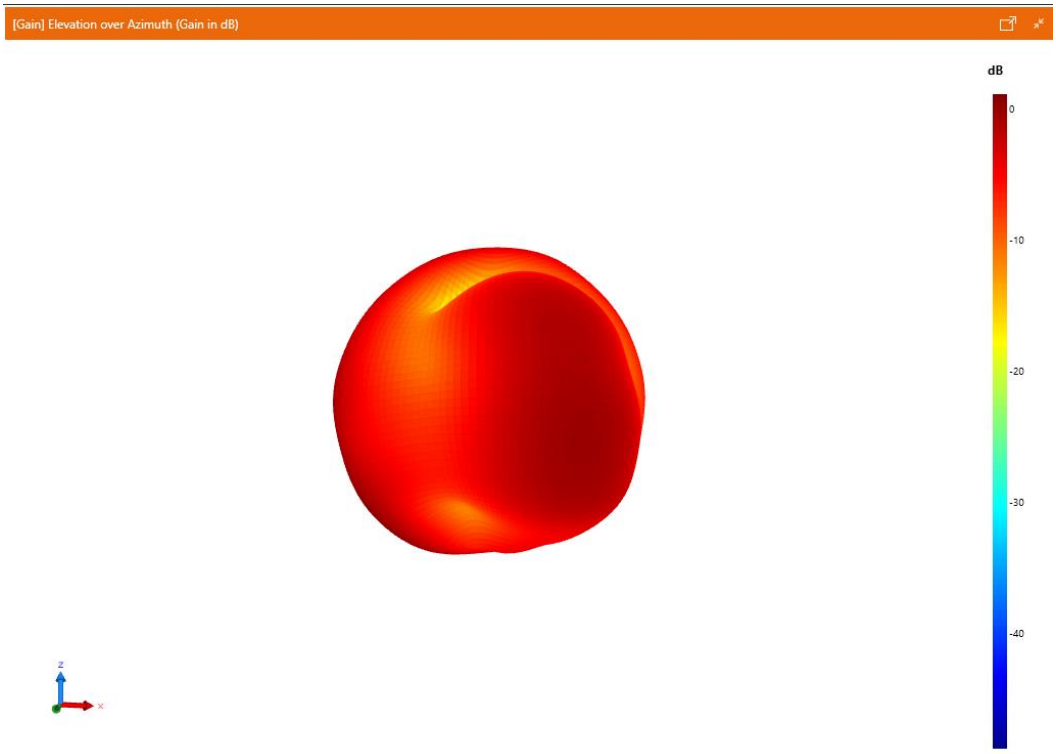
960 MHz



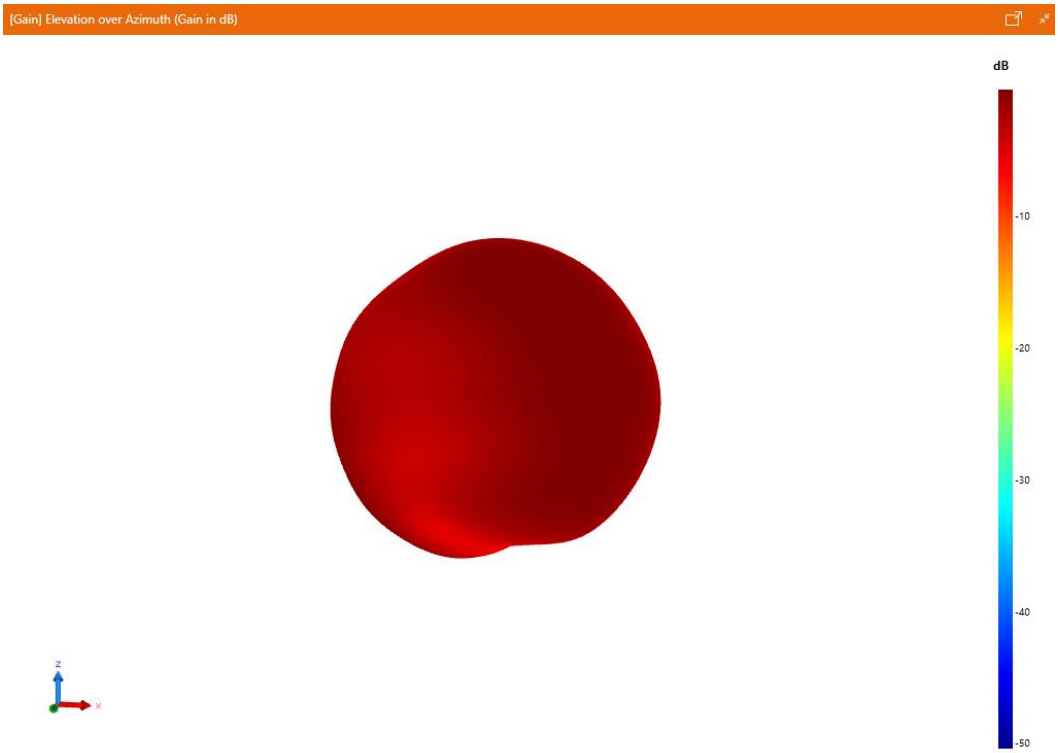
1710 MHz



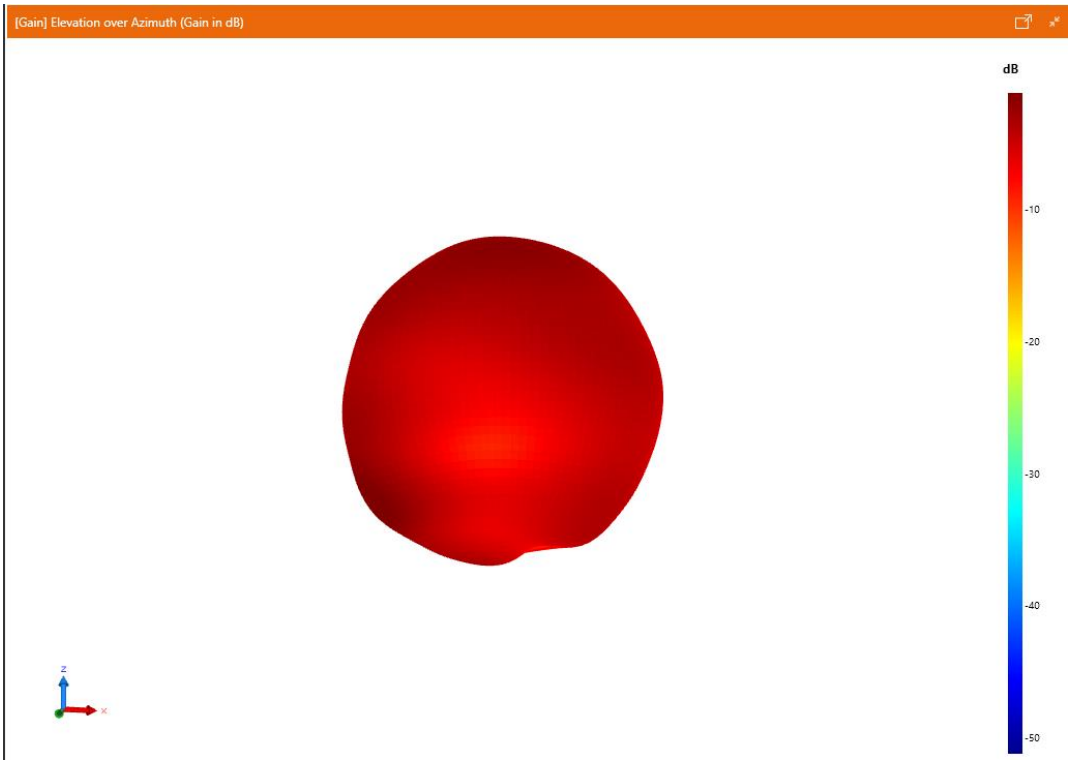
1800 MHz



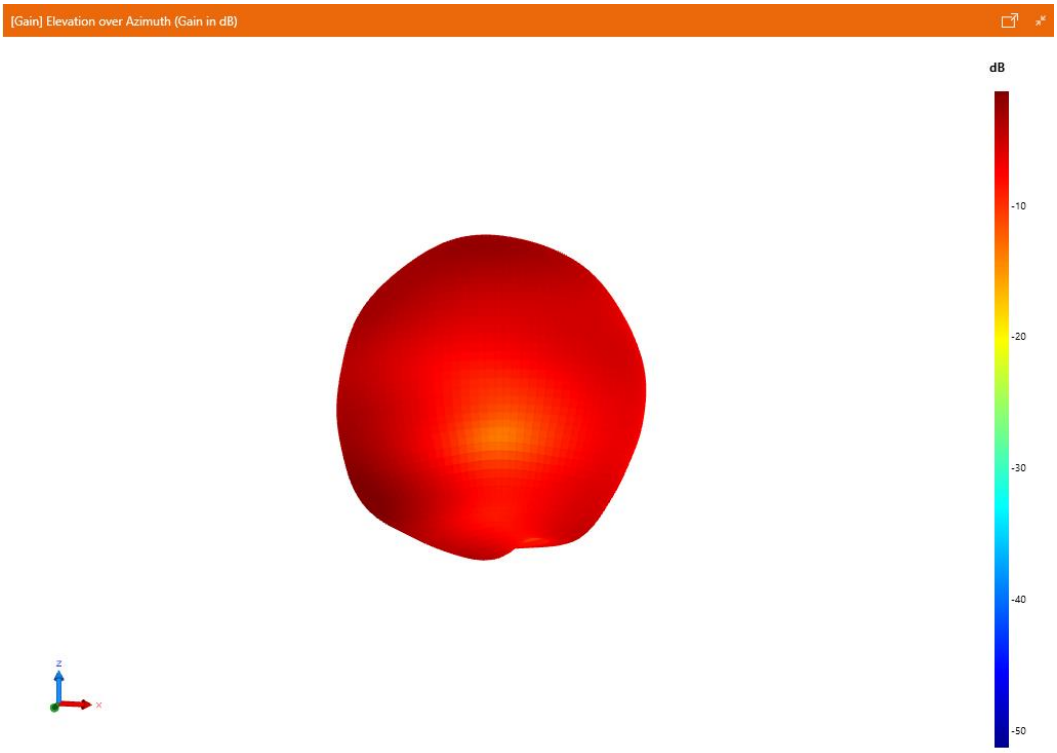
1900 MHz



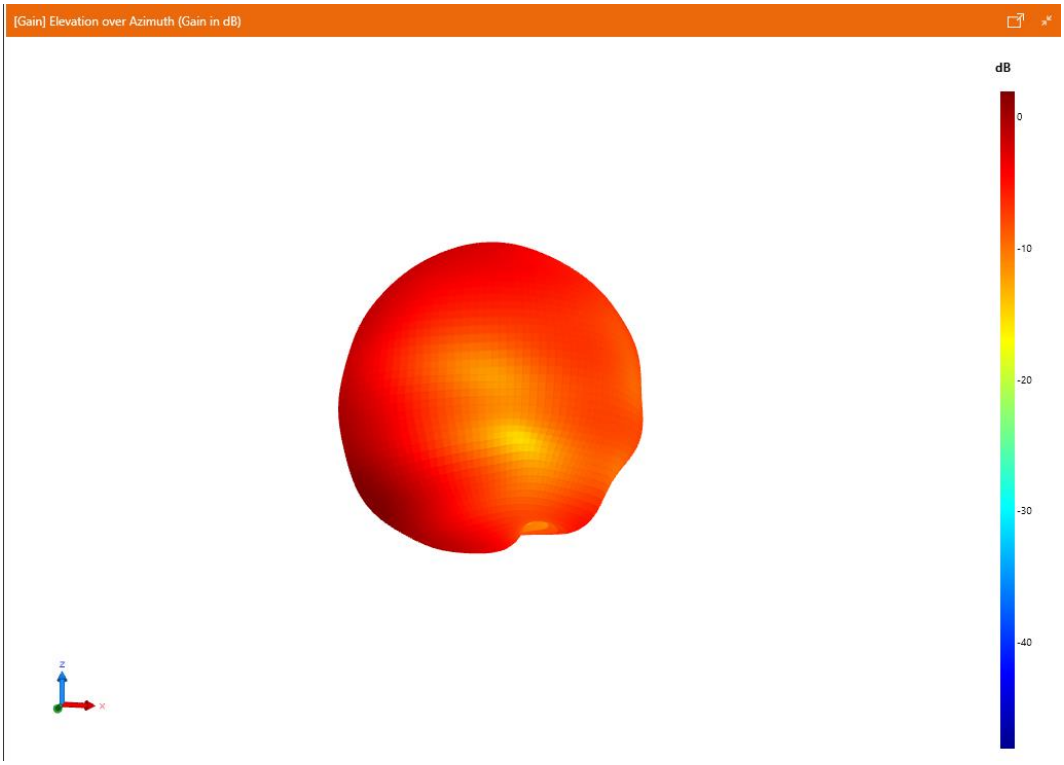
2000 MHz



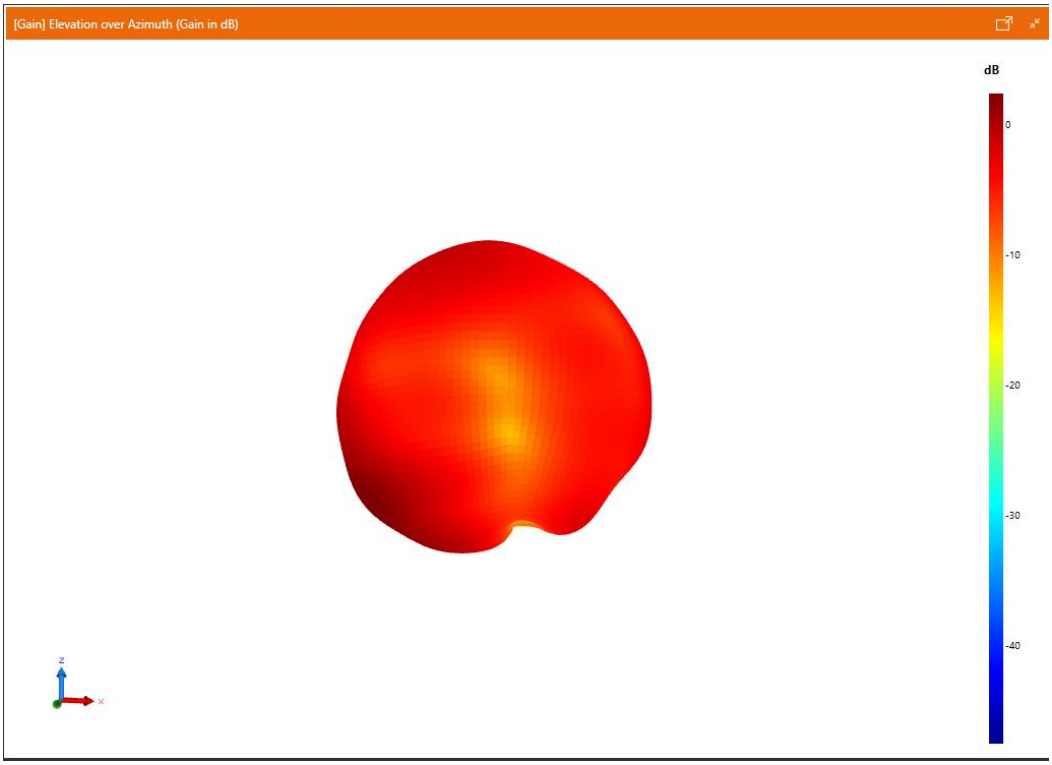
2100 MHz



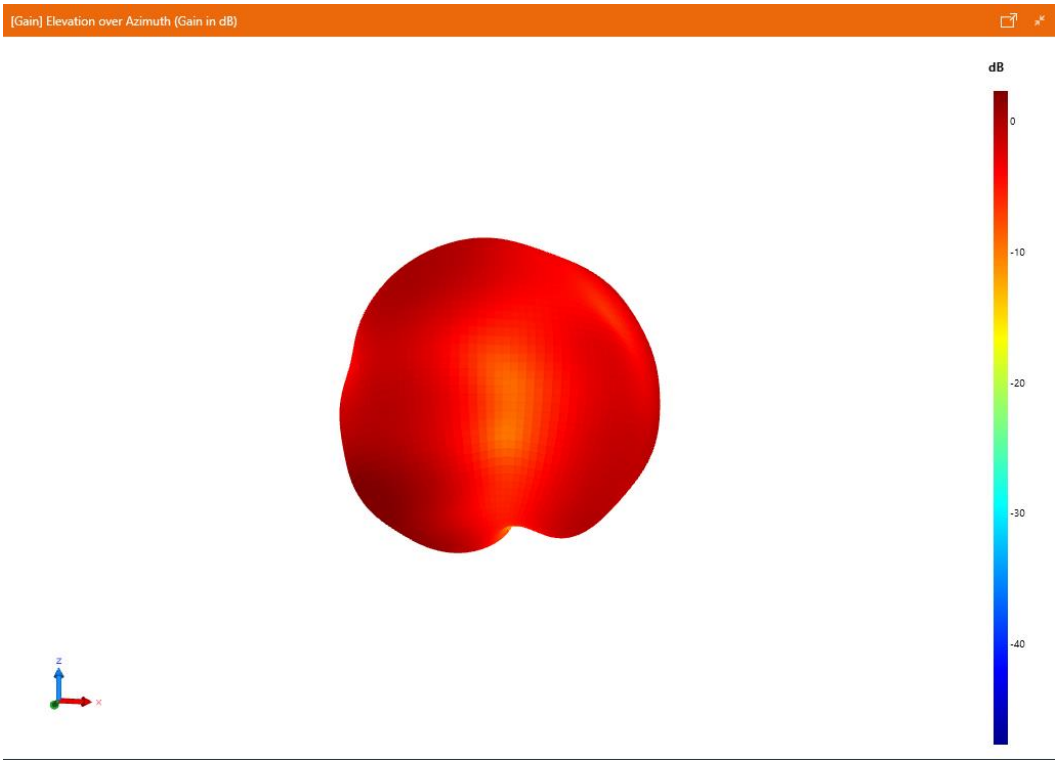
2170 MHz



2500 MHz

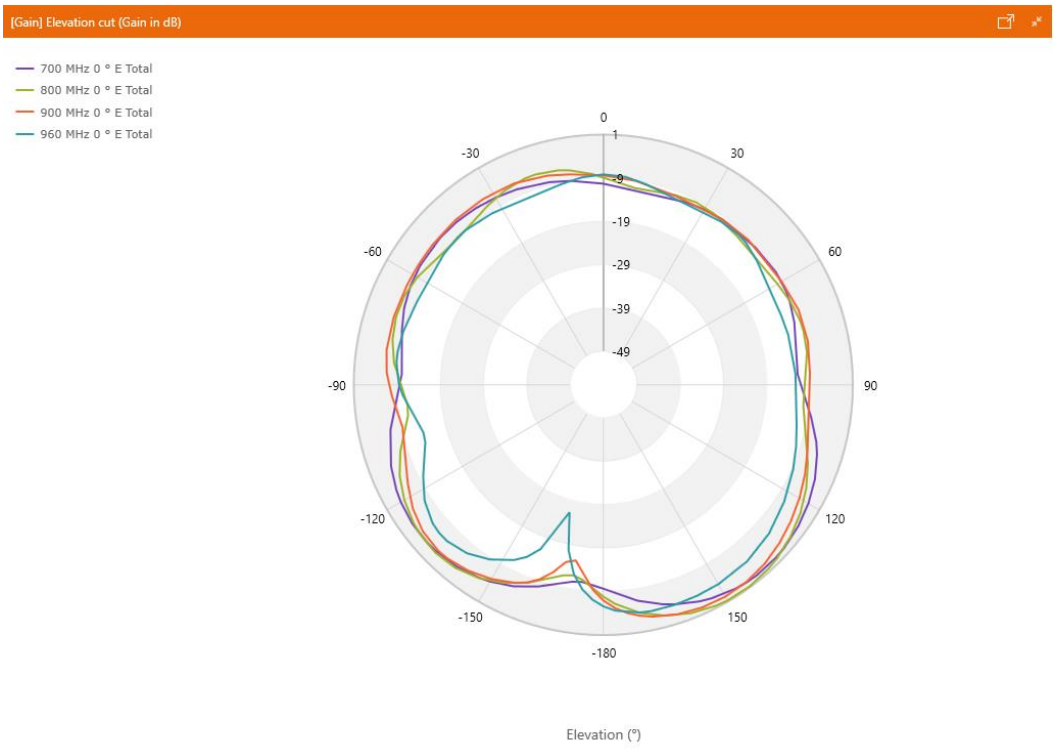


2600 MHz

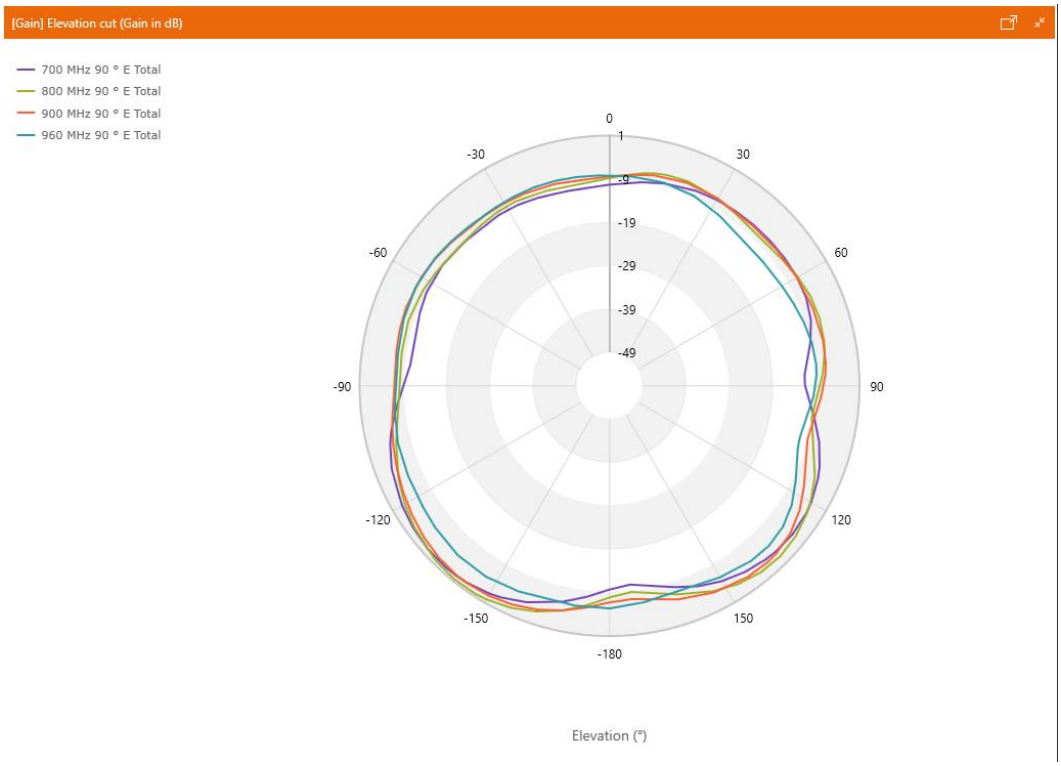


2700 MHz

LTE antenna polar patterns

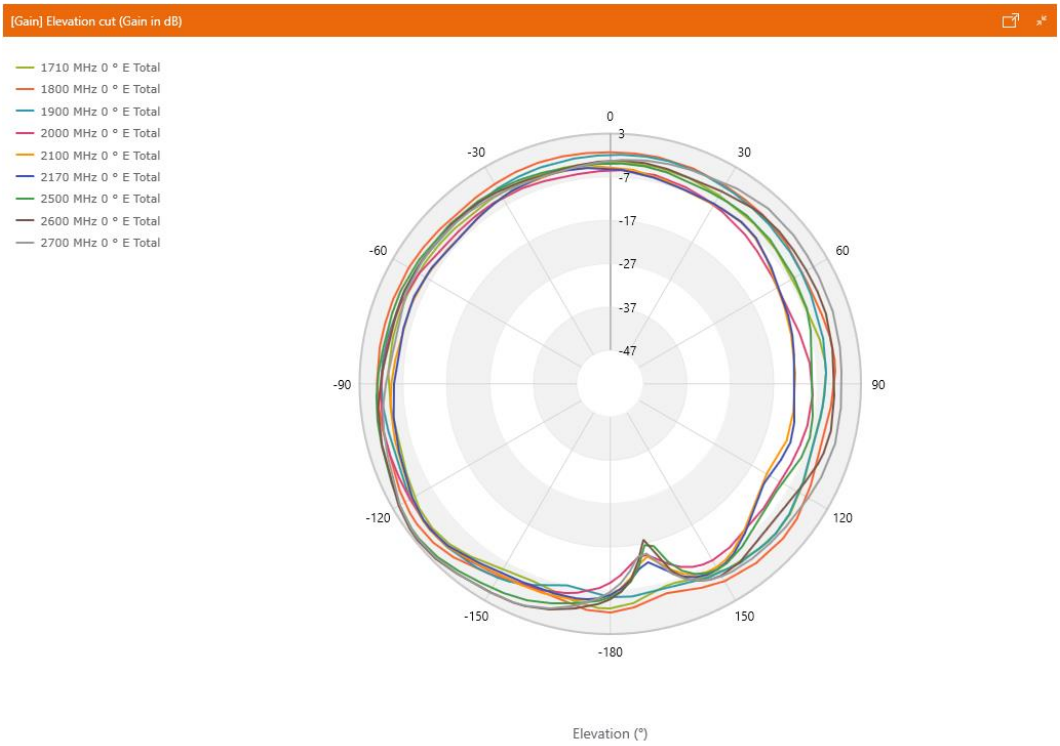


0° elevation plane 700-960 MHz

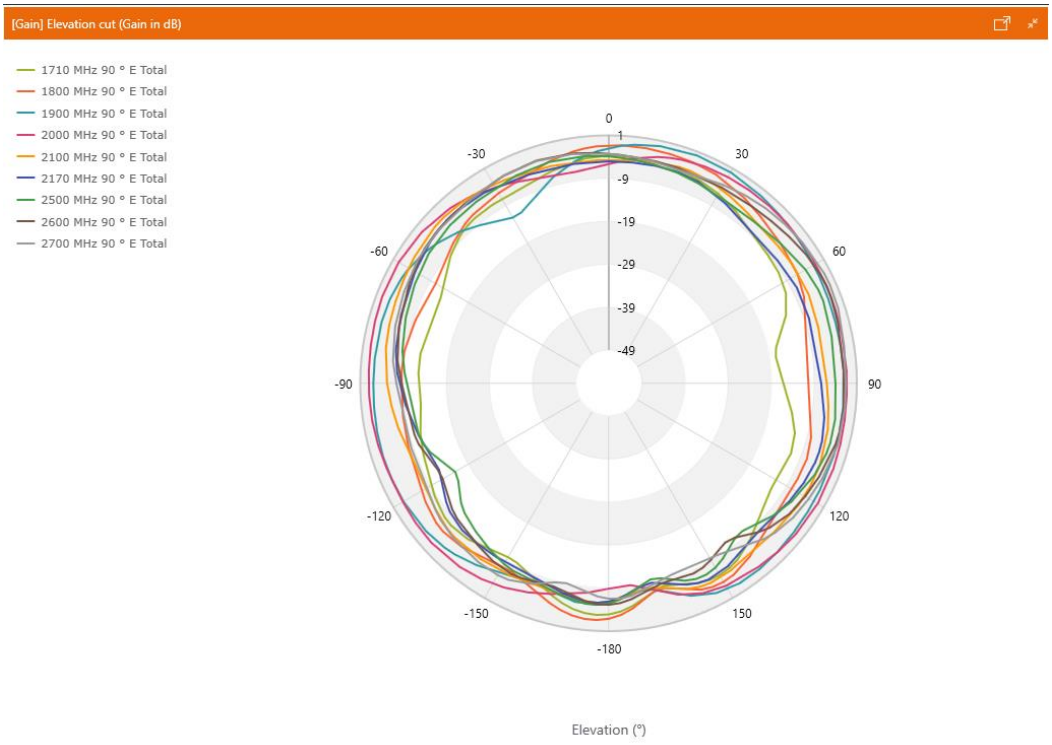


90° elevation plane 700-960 MHz

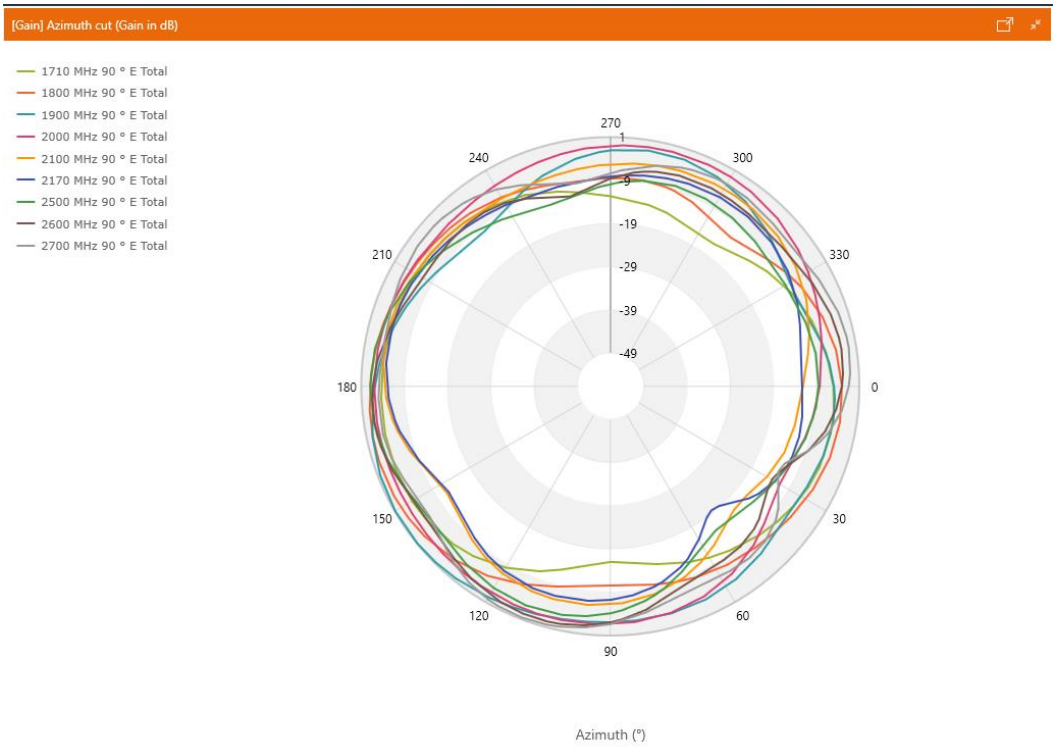
90° azimuth plane 700-960 MHz



0° elevation plane 1710-2700 MHz

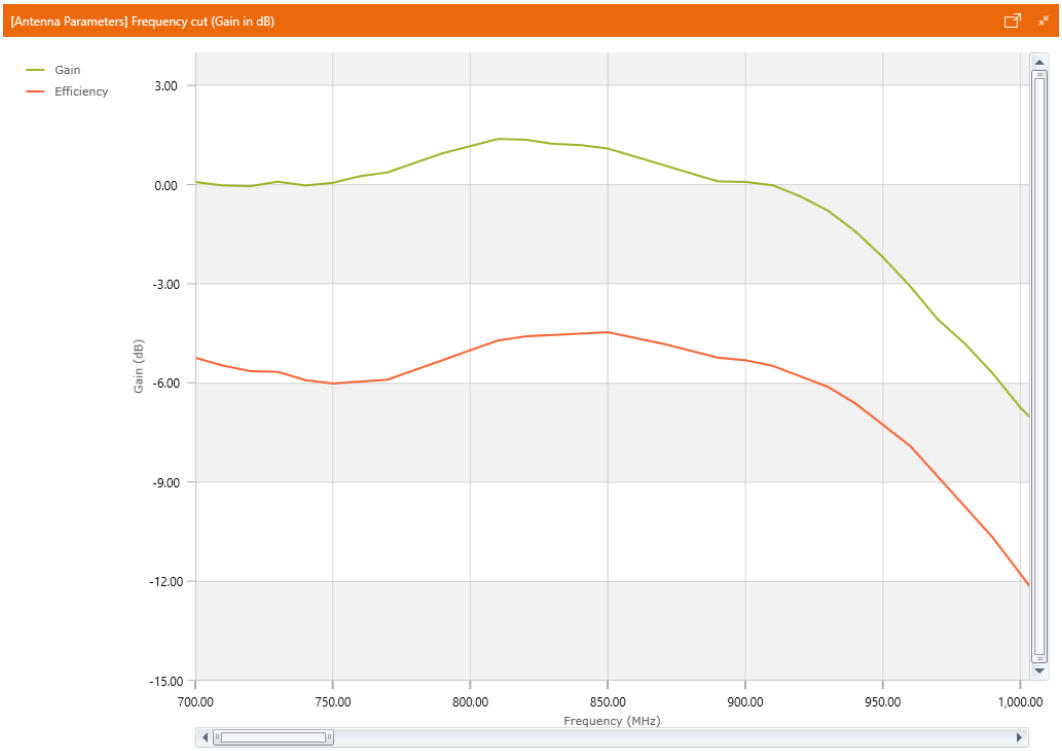


90° elevation plane 1710-2700 MHz

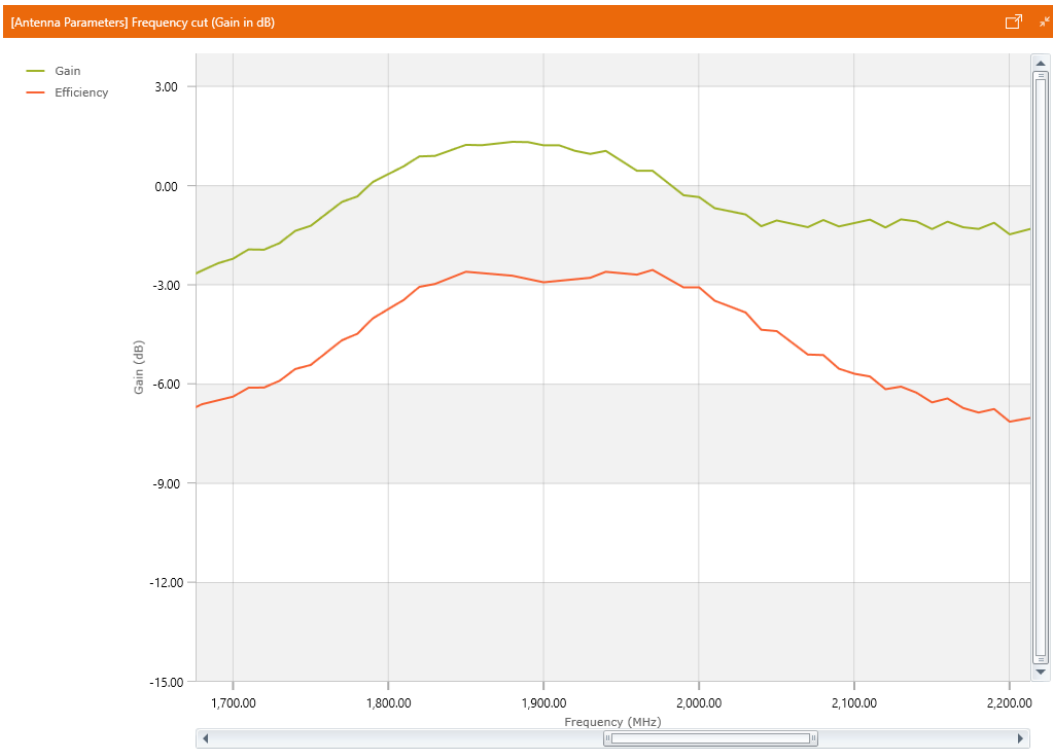


90° azimuth plane 1710-2700 MHz

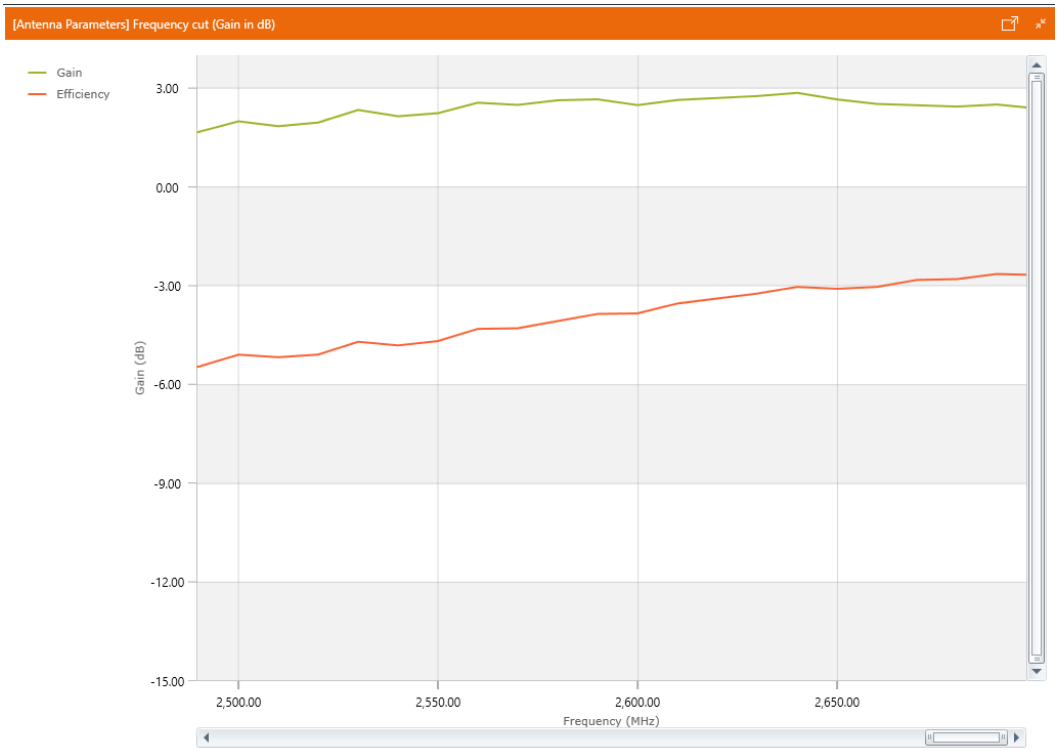
LTE antenna efficiency and gain diagram



700-960 MHz



1710-2170 MHz



2500-2700 MHz