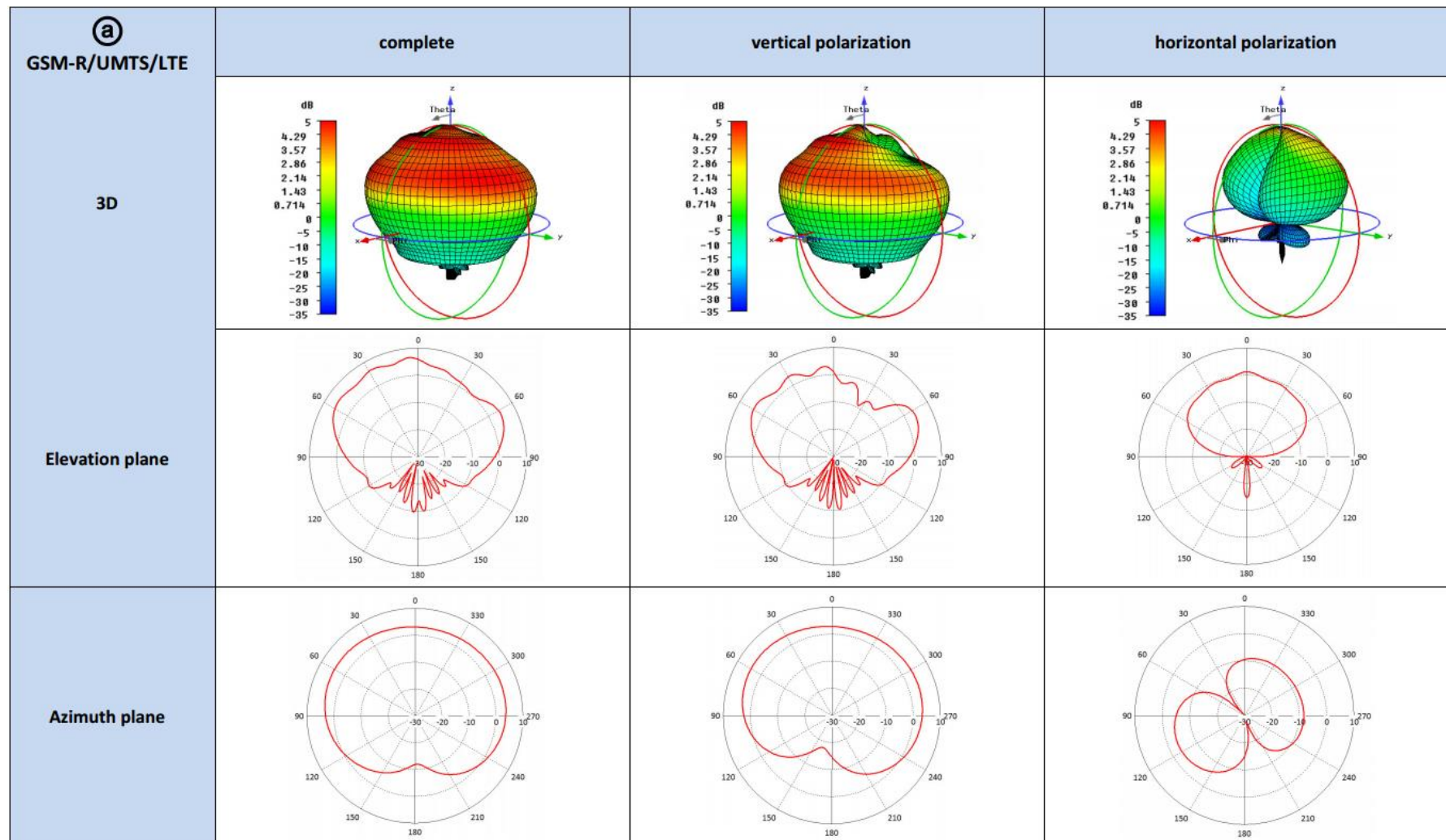


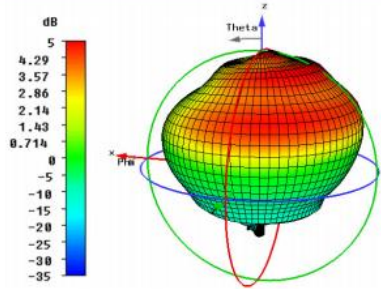
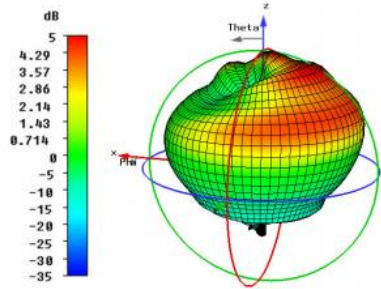
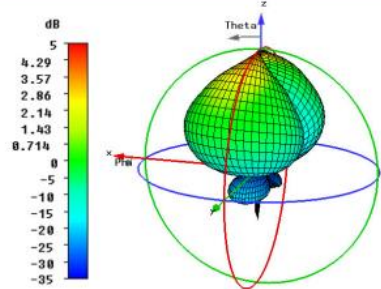
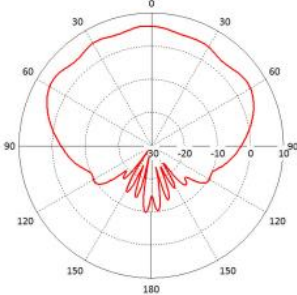
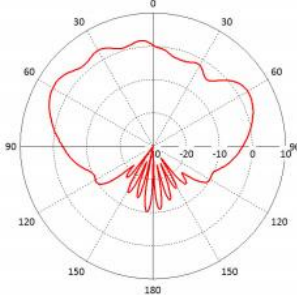
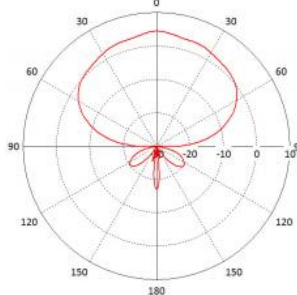
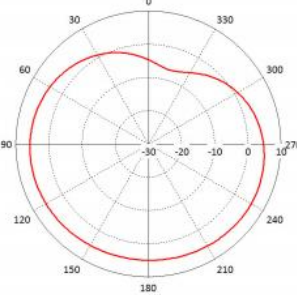
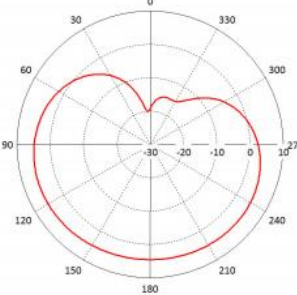
# Antenna-Railway-2L2WG

## Radiation Patterns

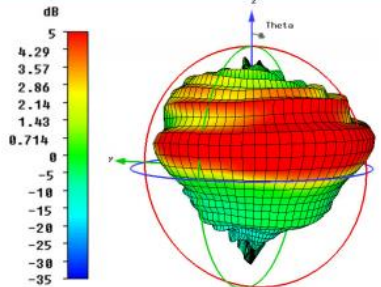
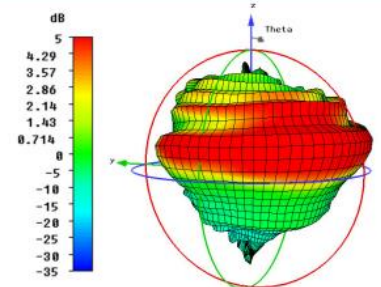
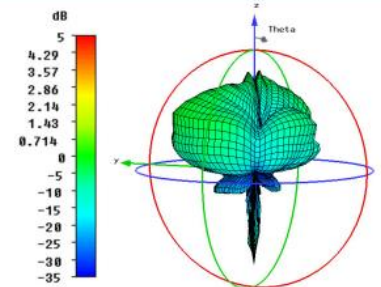
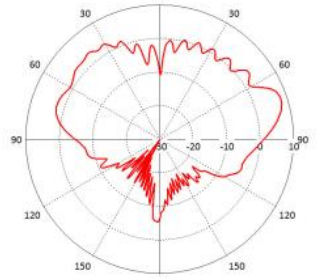
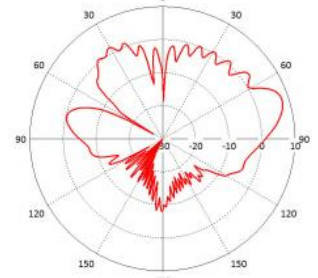
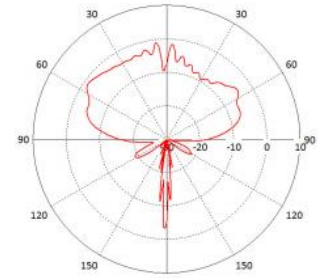
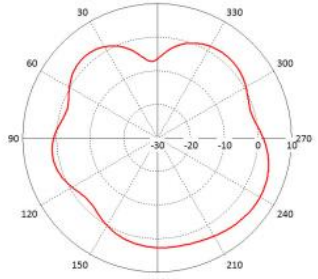
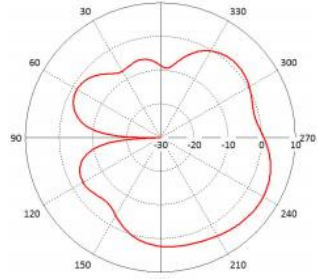
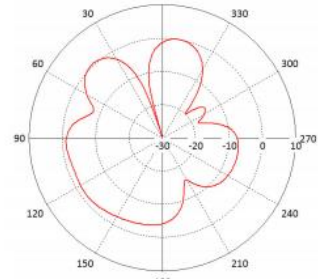
### Cellular 1




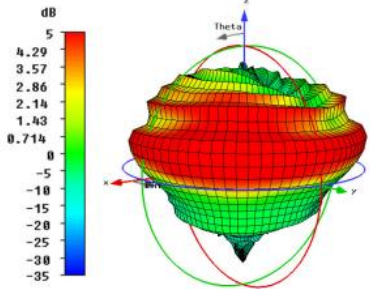
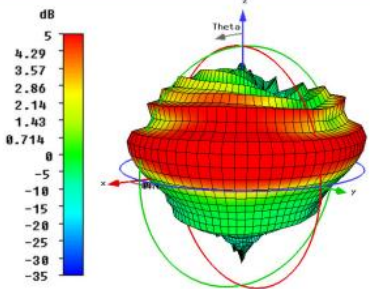
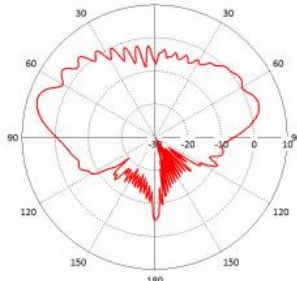
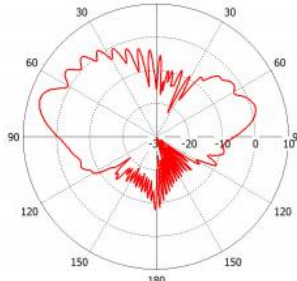
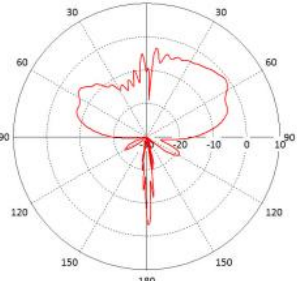
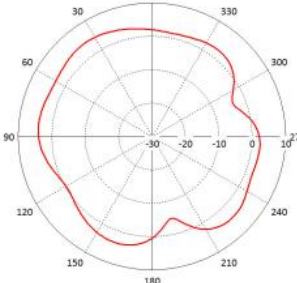
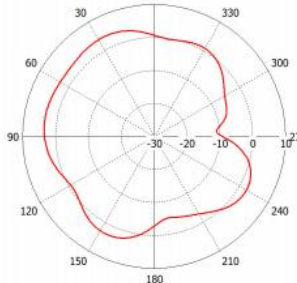
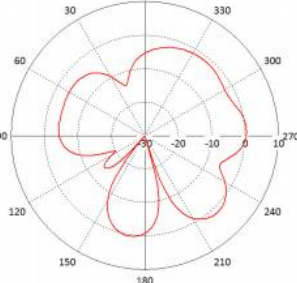
Cellular 2

<p>ⓑ GSM-R/UMTS/LTE</p>	<p>complete</p>	<p>vertical polarization</p>	<p>horizontal polarization</p>
<p>3D</p>			
<p>Elevation plane</p>			
	<p>Azimuth plane</p>		

# WiFi 1


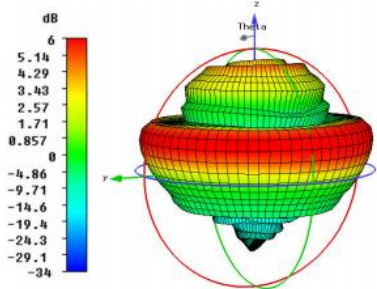
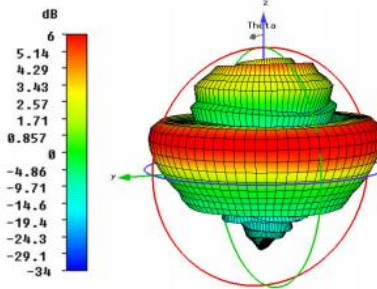
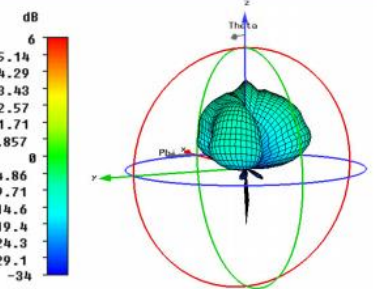
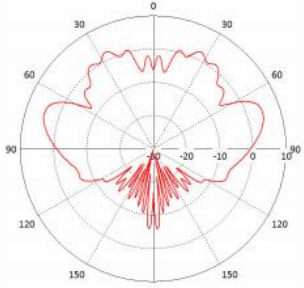
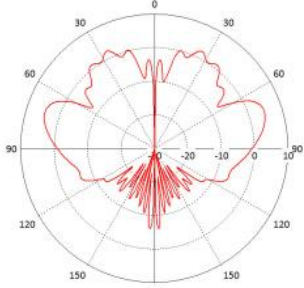
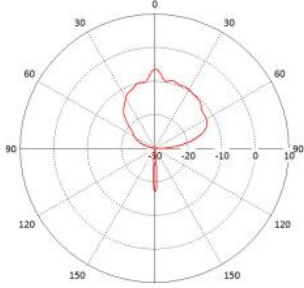
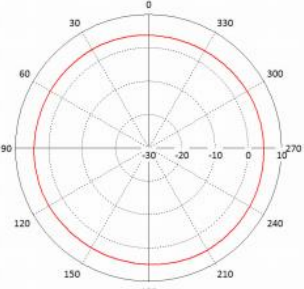
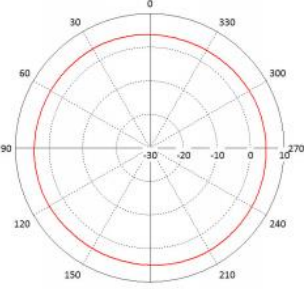
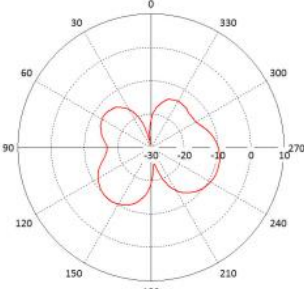
<p>© WLAN / WiFi</p>	<p>complete</p>	<p>vertical polarization</p>	<p>horizontal polarization</p>
<p>3D</p>			
<p>Elevation plane</p>			
<p>Azimuth plane</p>			

# WiFi 2

 WLAN / WiFi	complete	vertical polarization	horizontal polarization
3D			
Elevation plane			
			



# GNSS

 GPS / GLONASS	complete	vertical polarization	horizontal polarization
3D	 <p>3D radiation pattern for complete polarization. The plot shows a color-coded surface representing signal strength in dB across all directions. A color scale on the left ranges from -34 dB (blue) to 6 dB (red). The signal is strongest in the horizontal plane and weakest in the vertical direction.</p>	 <p>3D radiation pattern for vertical polarization. The plot shows a color-coded surface representing signal strength in dB. The signal is significantly weaker in the horizontal plane compared to the complete polarization case, with a strong signal lobe pointing vertically.</p>	 <p>3D radiation pattern for horizontal polarization. The plot shows a color-coded surface representing signal strength in dB. The signal is concentrated in the horizontal plane and is very weak in the vertical direction.</p>
Elevation plane	 <p>Elevation plane radiation pattern for complete polarization. The plot shows signal strength in dB as a function of elevation angle (0 to 180 degrees). The signal is highest at 90 degrees (horizontal) and lowest at 0 and 180 degrees (vertical).</p>	 <p>Elevation plane radiation pattern for vertical polarization. The plot shows signal strength in dB as a function of elevation angle. The signal is highest at 0 and 180 degrees (vertical) and lowest at 90 degrees (horizontal).</p>	 <p>Elevation plane radiation pattern for horizontal polarization. The plot shows signal strength in dB as a function of elevation angle. The signal is highest at 90 degrees (horizontal) and lowest at 0 and 180 degrees (vertical).</p>
Azimuth plane	 <p>Azimuth plane radiation pattern for complete polarization. The plot shows signal strength in dB as a function of azimuth angle (0 to 360 degrees). The signal is relatively uniform across all azimuth angles.</p>	 <p>Azimuth plane radiation pattern for vertical polarization. The plot shows signal strength in dB as a function of azimuth angle. The signal is relatively uniform across all azimuth angles.</p>	 <p>Azimuth plane radiation pattern for horizontal polarization. The plot shows signal strength in dB as a function of azimuth angle. The signal is concentrated in the horizontal plane and is very weak in the vertical direction.</p>