

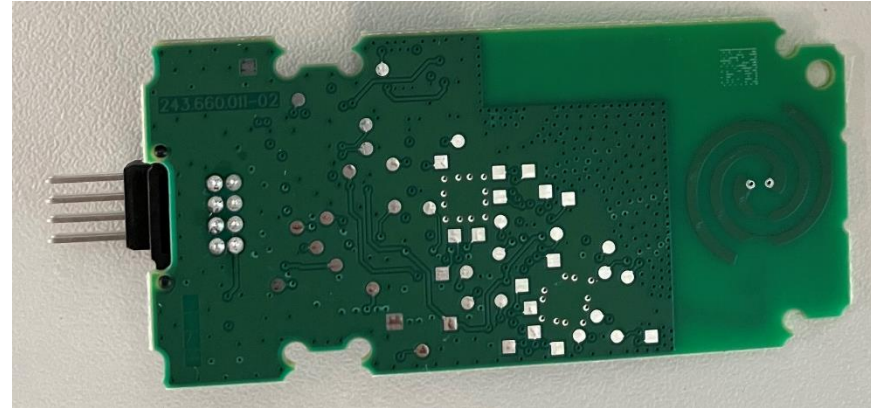
# ANTENNA DIAGRAMS FOR MUB1 – UWB

Kind of test item: UWB/BLE distance measurement module  
Model name: MUB1  
Manufacturer: Marquardt GmbH  
Schloss-Str. 16  
78604 Rietheim-Weilheim  
GERMANY

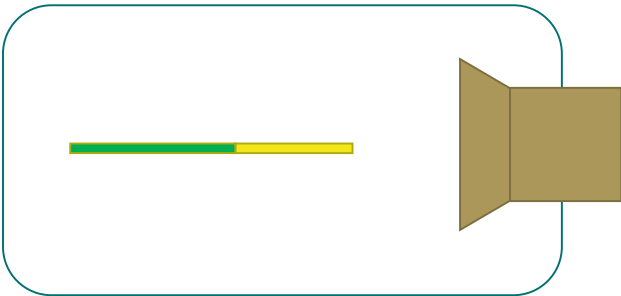
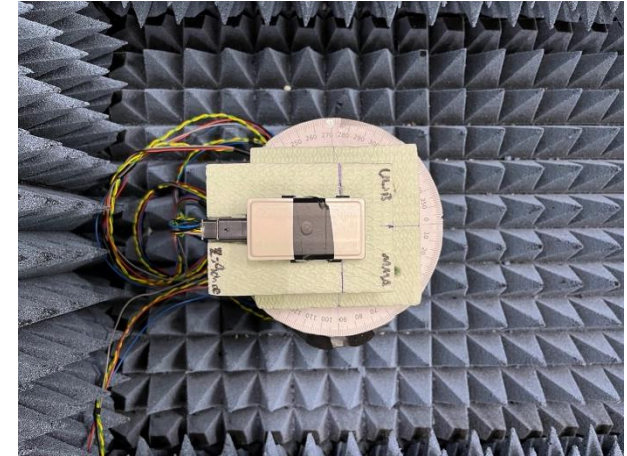
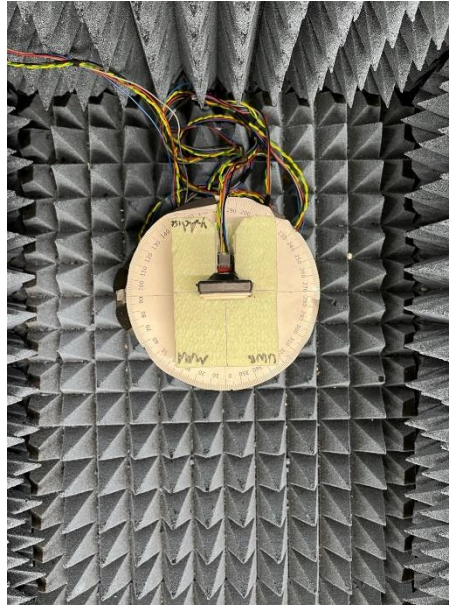
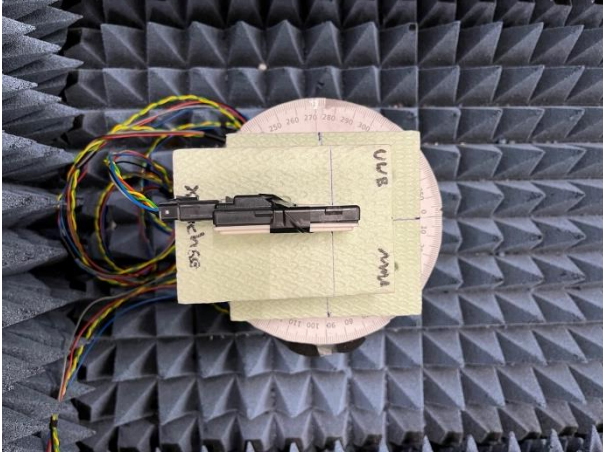
Frequency: Channel 5: 6.4896 GHz  
Channel 6: 6.9888 GHz  
Channel 8: 7.4880 GHz  
Channel 9: 7.9872 GHz

Antenna: Integrated PCB circular polarized antenna

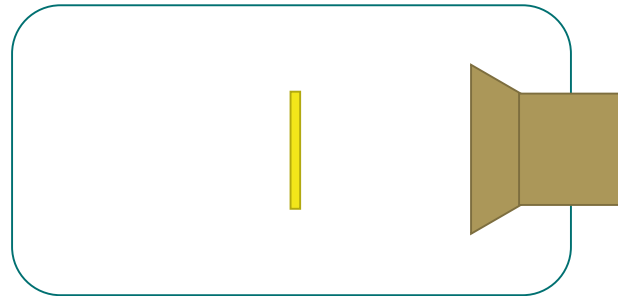
Test mode: EUT is transmitting carrier at channel center frequency



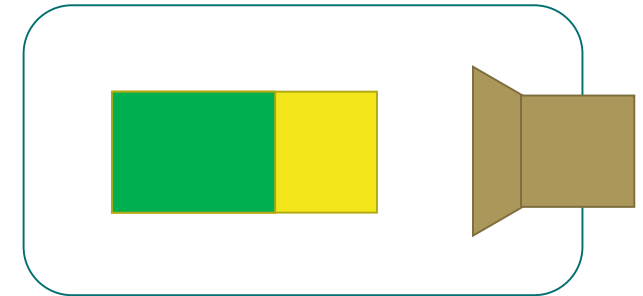
# SAMPLE ORIENTATIONS W/ HOUSING



x - axis

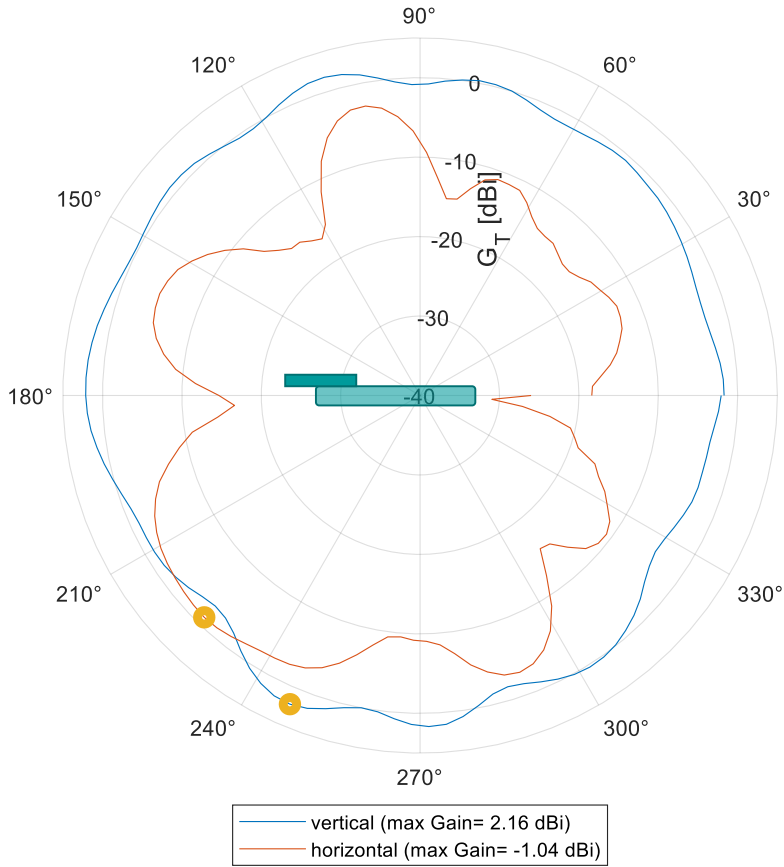


y - axis

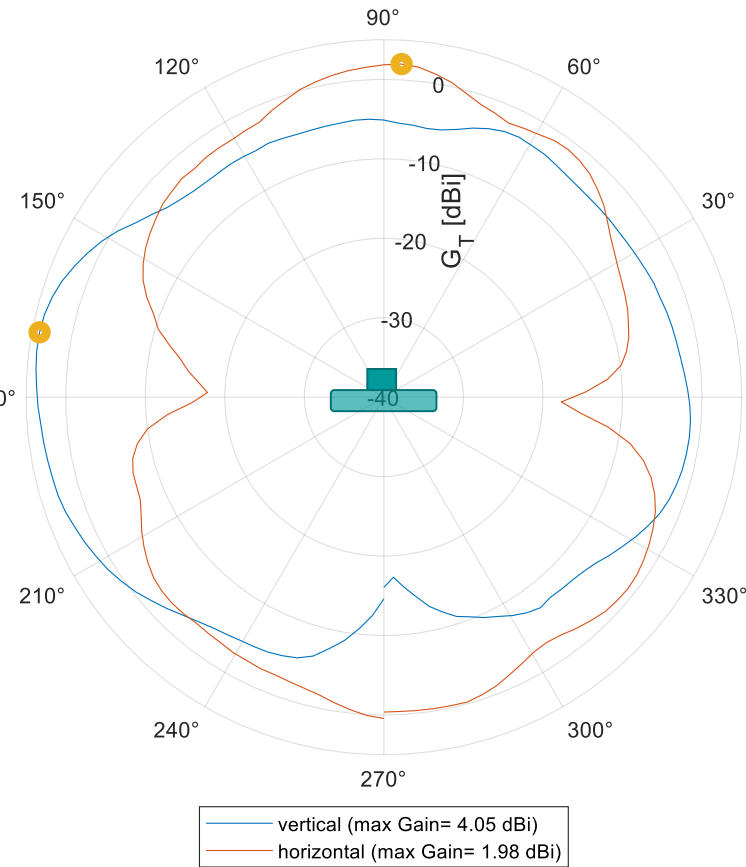


z - axis

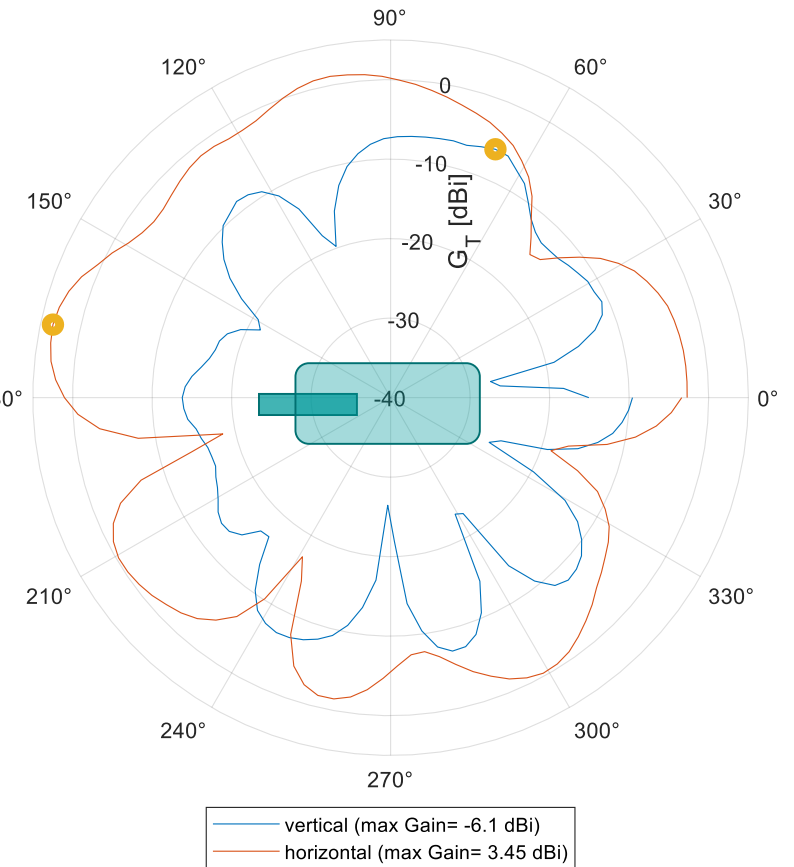
# CH5 - GAIN



x - axis



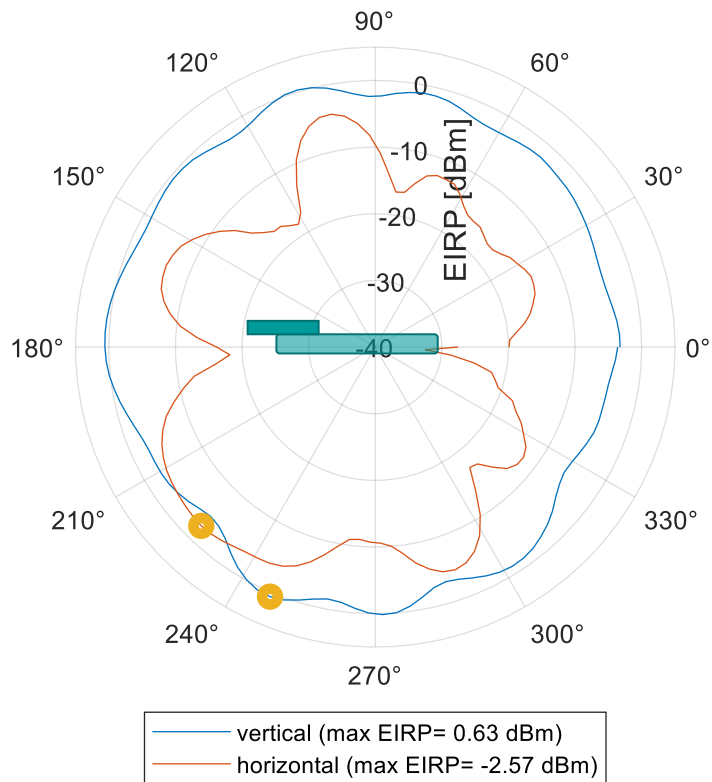
y - axis



z - axis

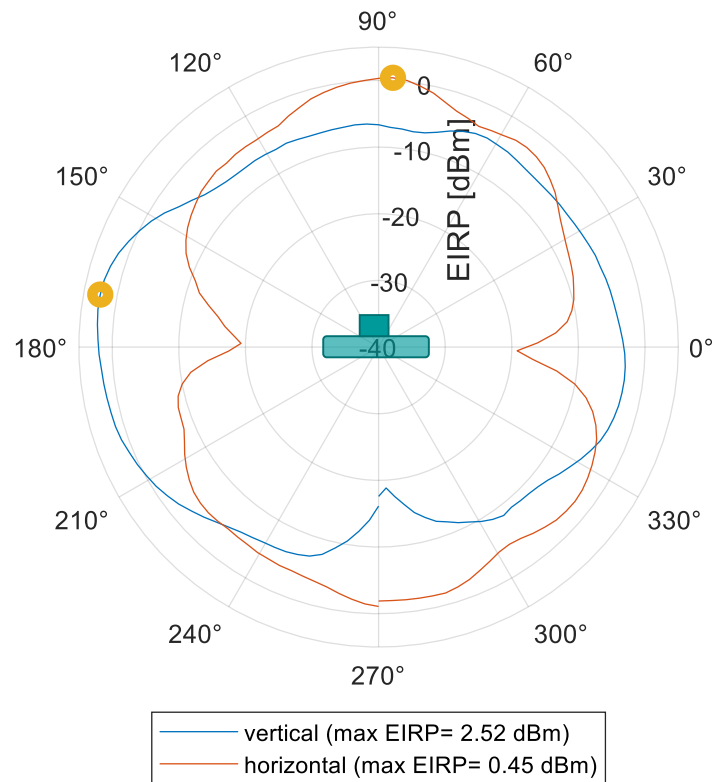
# CH5 - EIRP

x-axis - CH5 - 6489.6 MHz



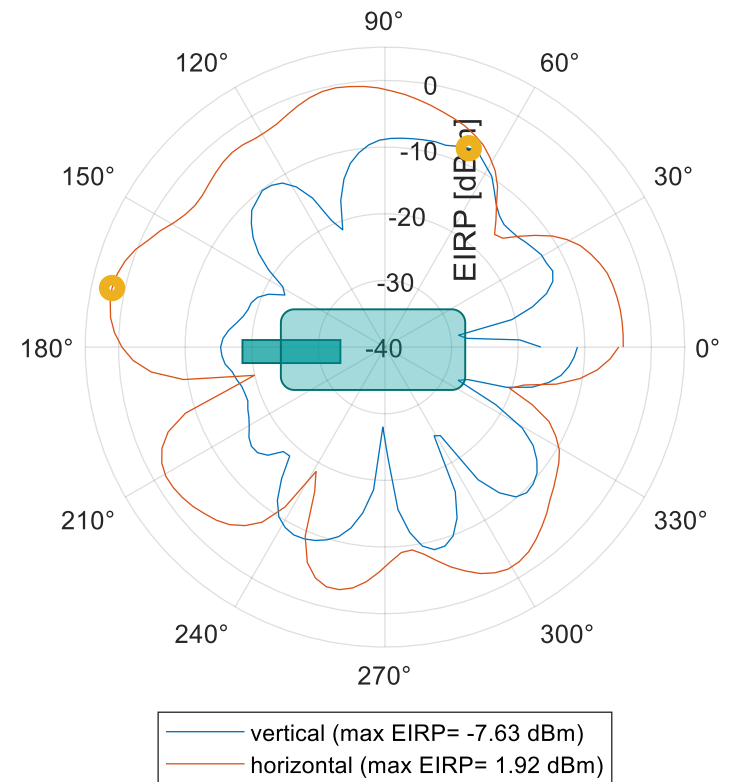
x - axis

y-axis - CH5 - 6489.6 MHz



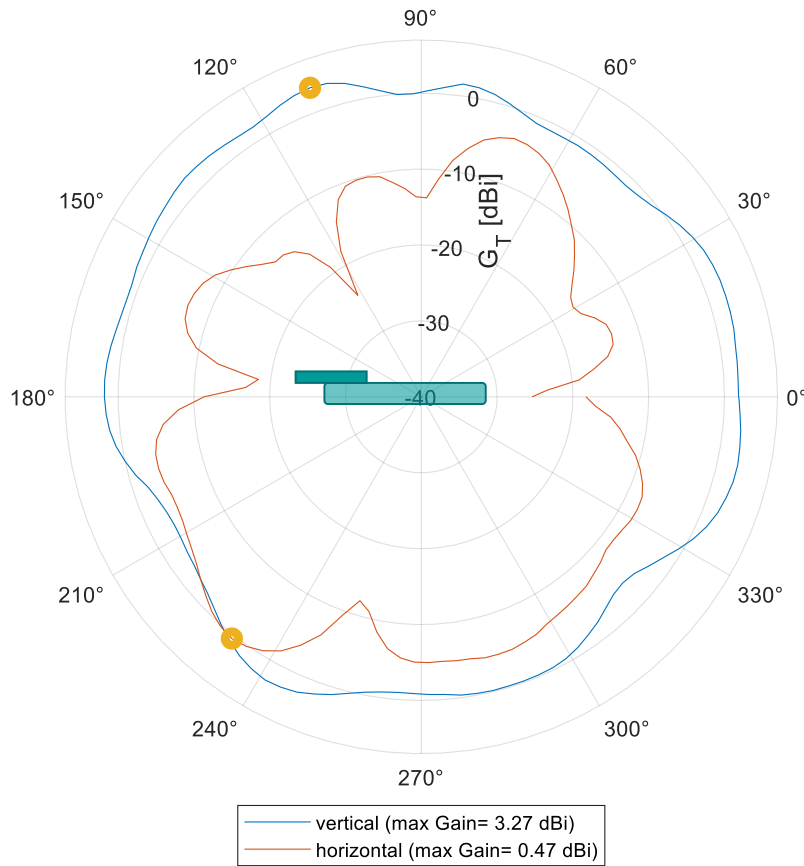
y - axis

z-axis - CH5 - 6489.6 MHz

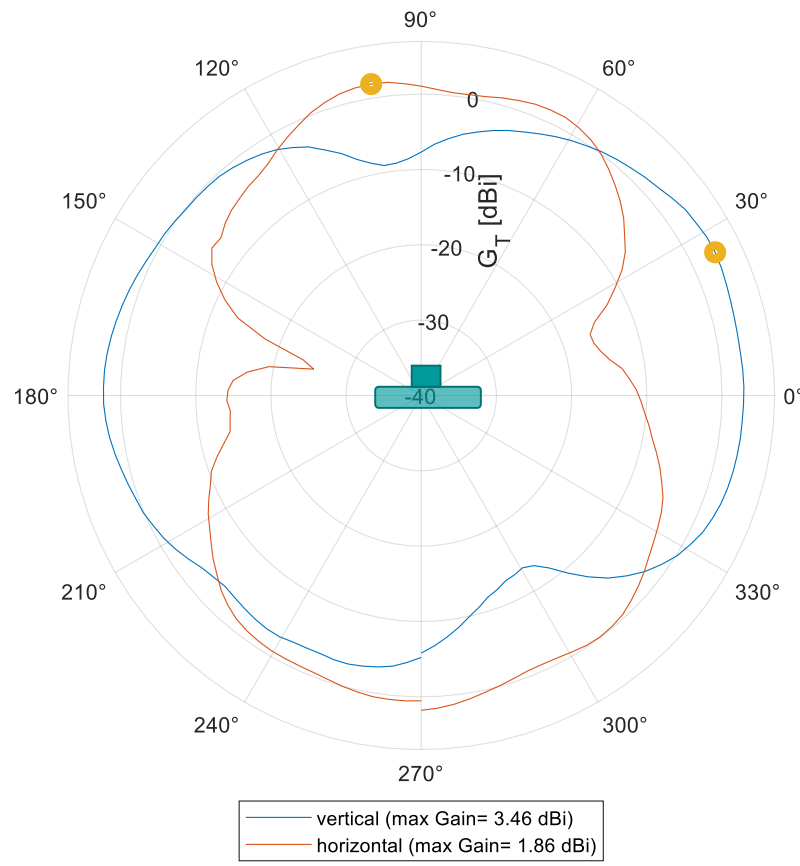


z - axis

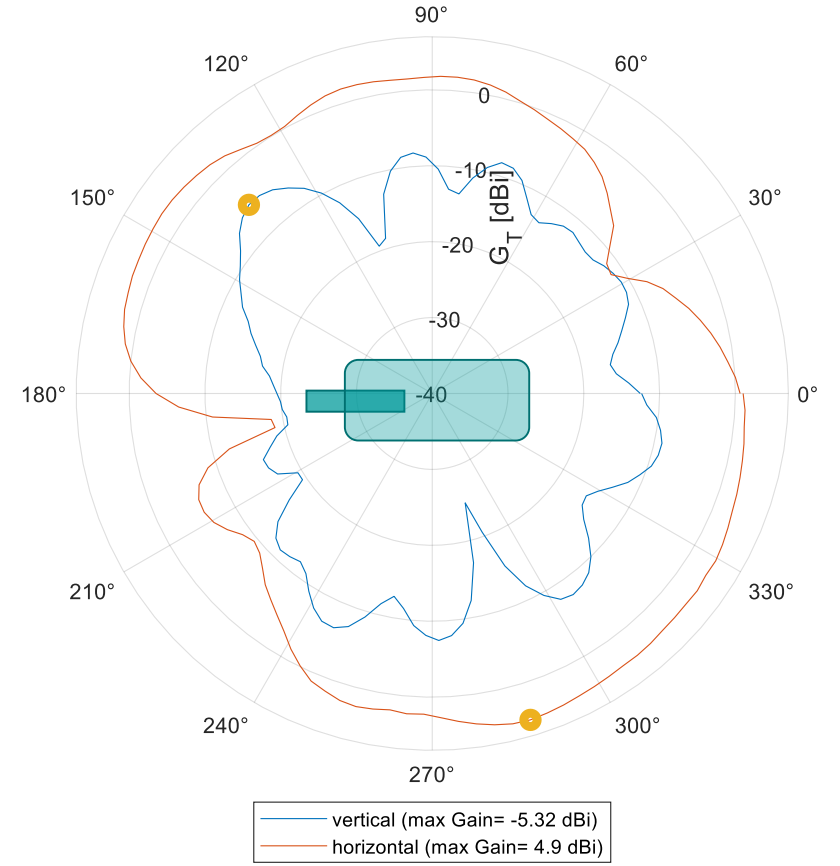
# CH6 - GAIN



x - axis



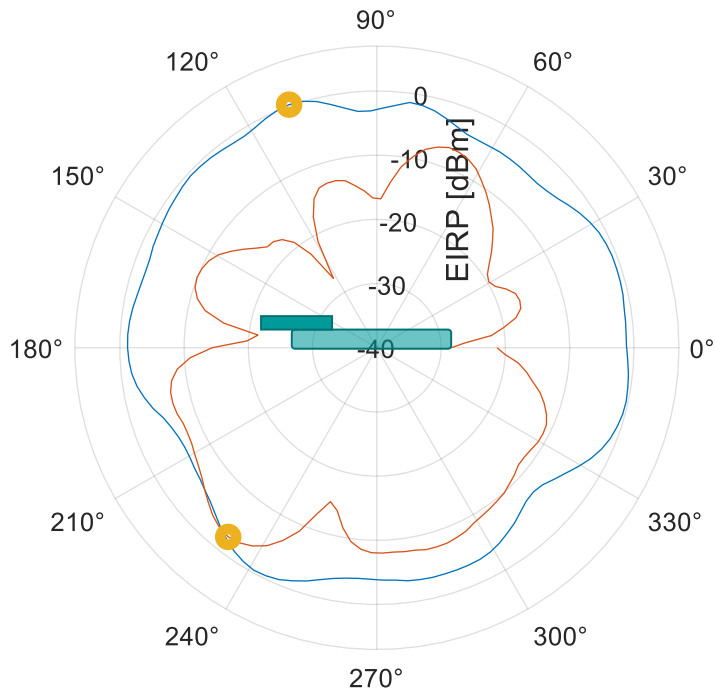
y - axis



z - axis

# CH6 - EIRP

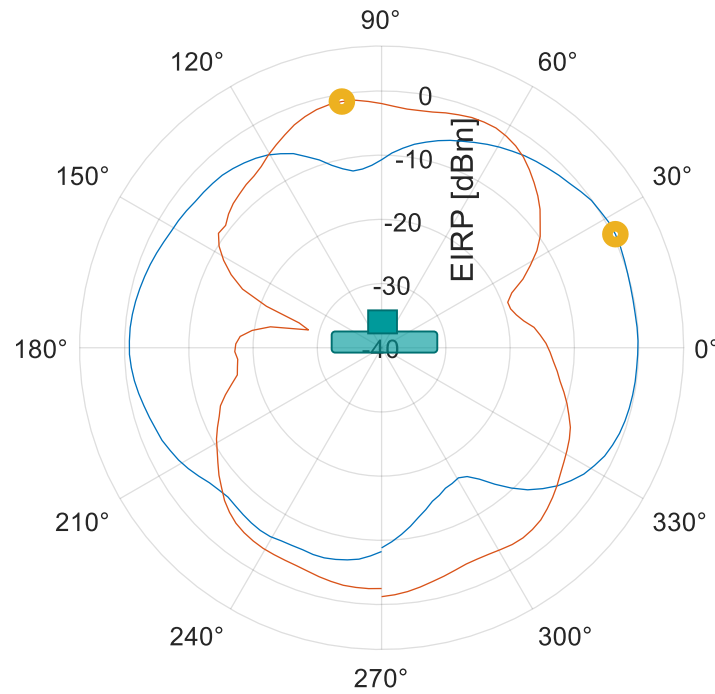
x-axis - CH6 - 6988.8 MHz



— vertical (max EIRP= 0.25 dBm)  
— horizontal (max EIRP= -2.55 dBm)

x - axis

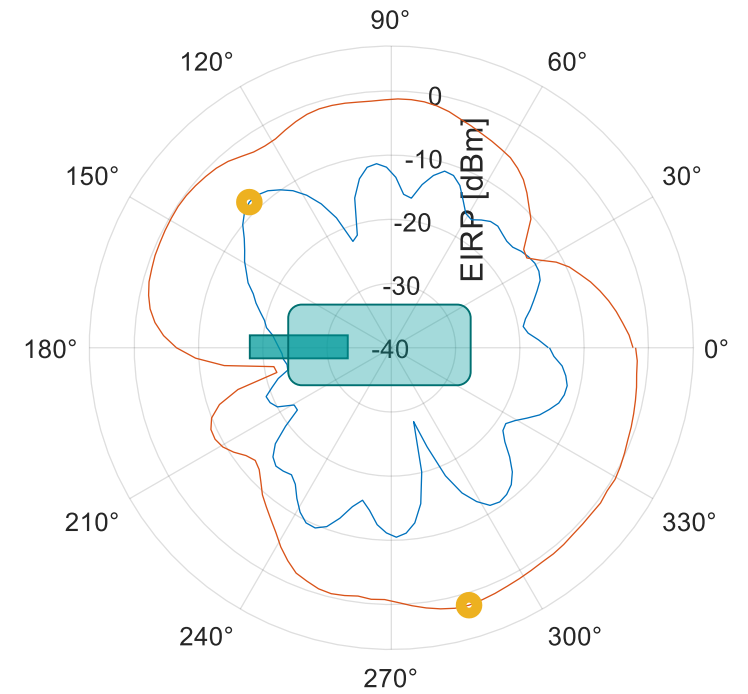
y-axis - CH6 - 6988.8 MHz



— vertical (max EIRP= 0.44 dBm)  
— horizontal (max EIRP= -1.16 dBm)

y - axis

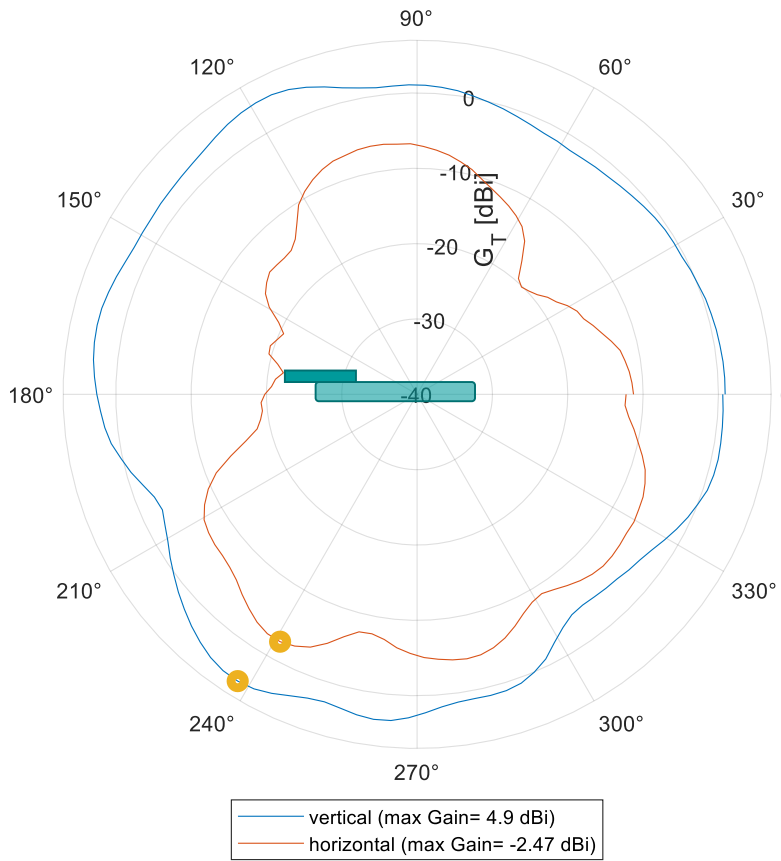
z-axis - CH6 - 6988.8 MHz



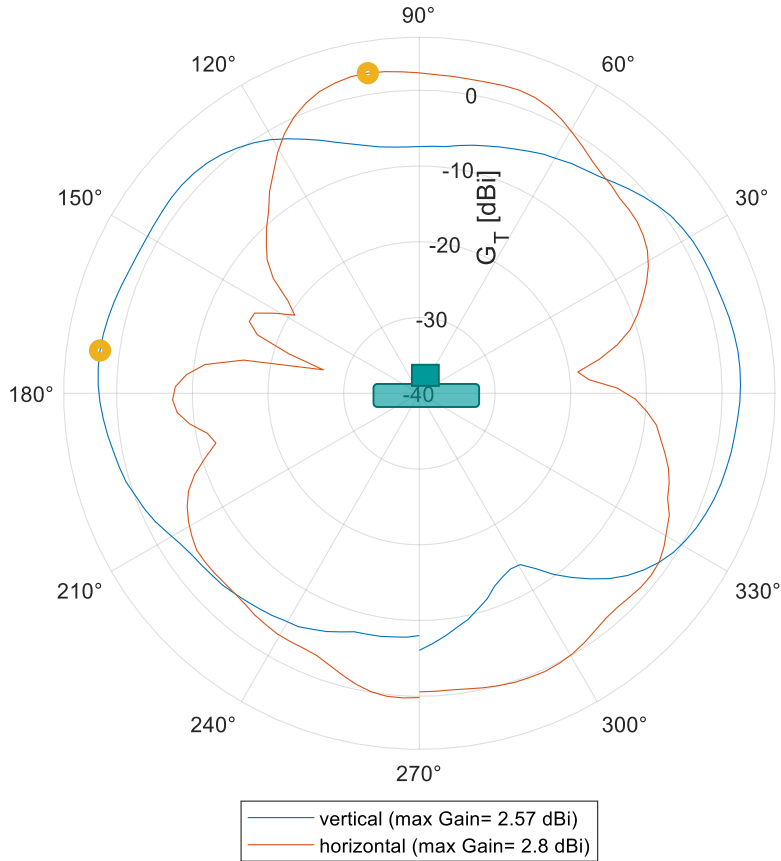
— vertical (max EIRP= -8.34 dBm)  
— horizontal (max EIRP= 1.88 dBm)

z - axis

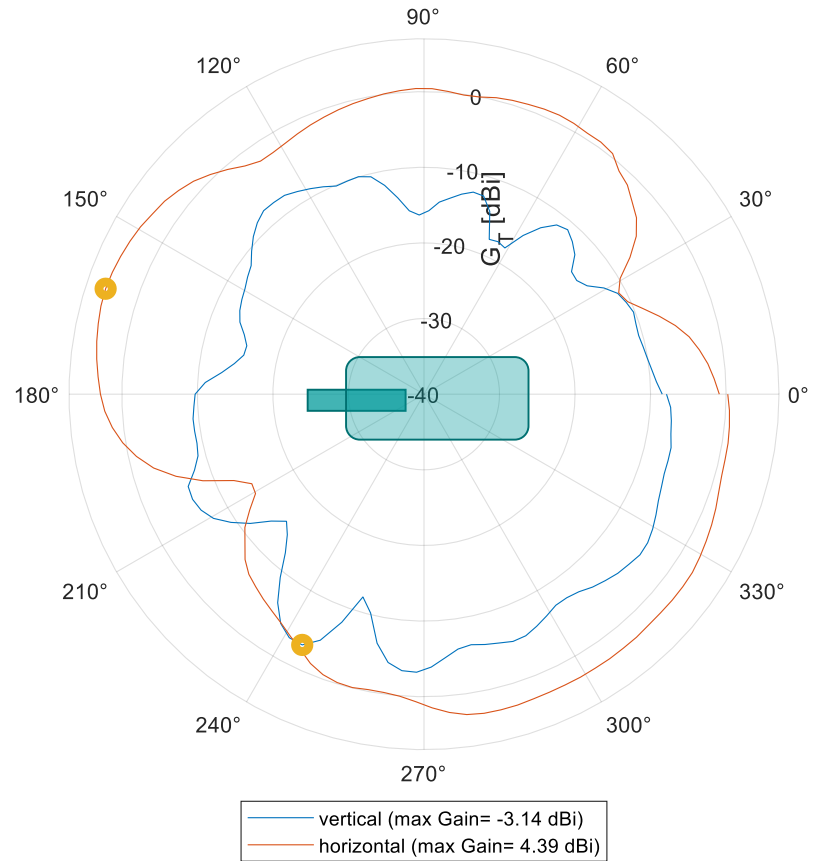
# CH8 - GAIN



x - axis



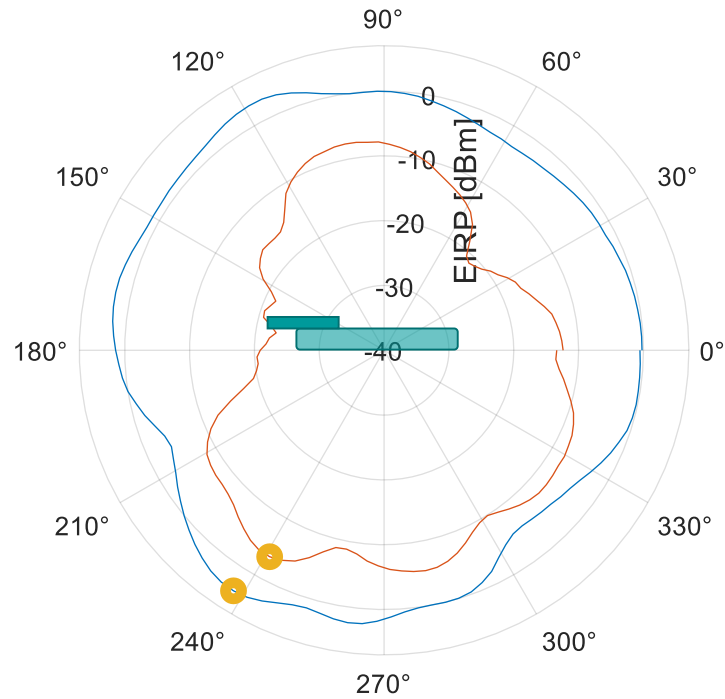
y - axis



z - axis

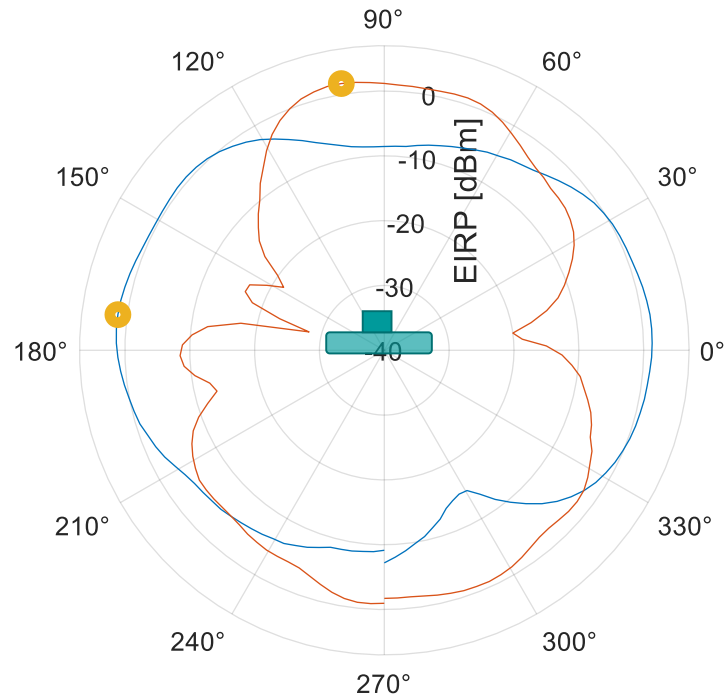
# CH8 - EIRP

x-axis - CH8 - 7488 MHz



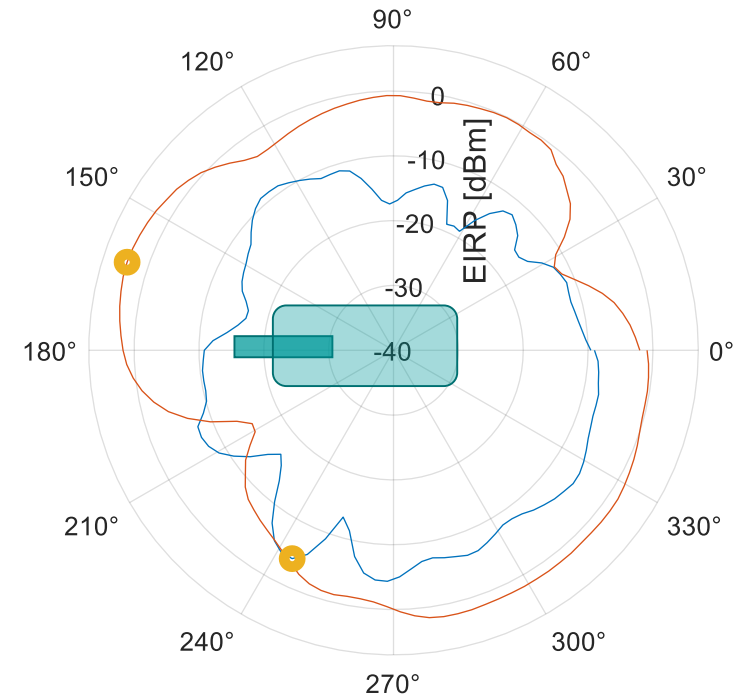
x - axis

y-axis - CH8 - 7488 MHz



y - axis

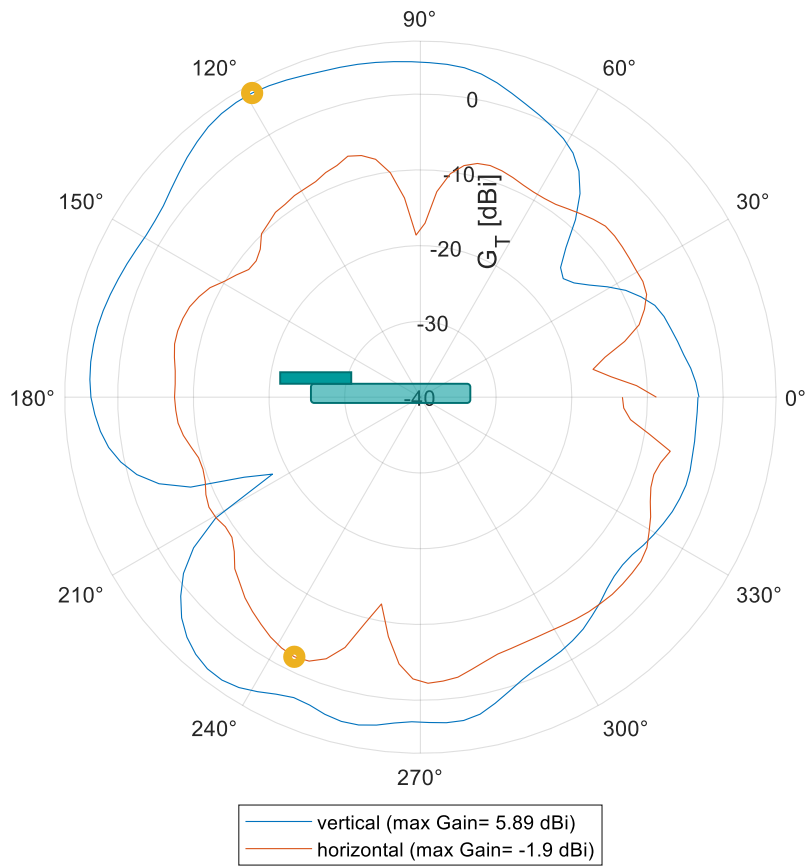
z-axis - CH8 - 7488 MHz



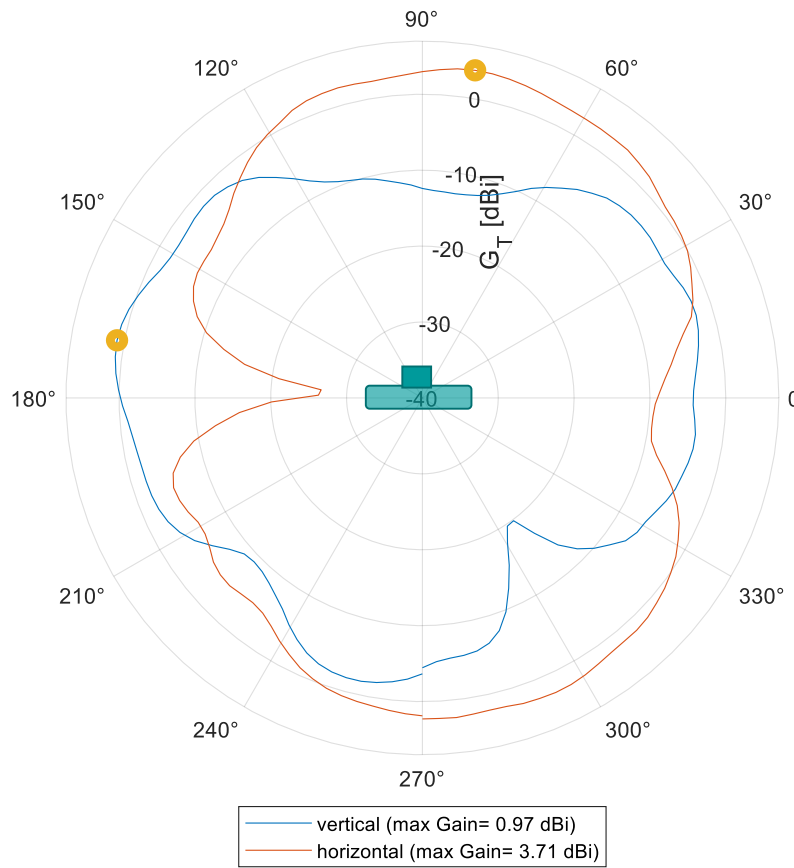
z - axis



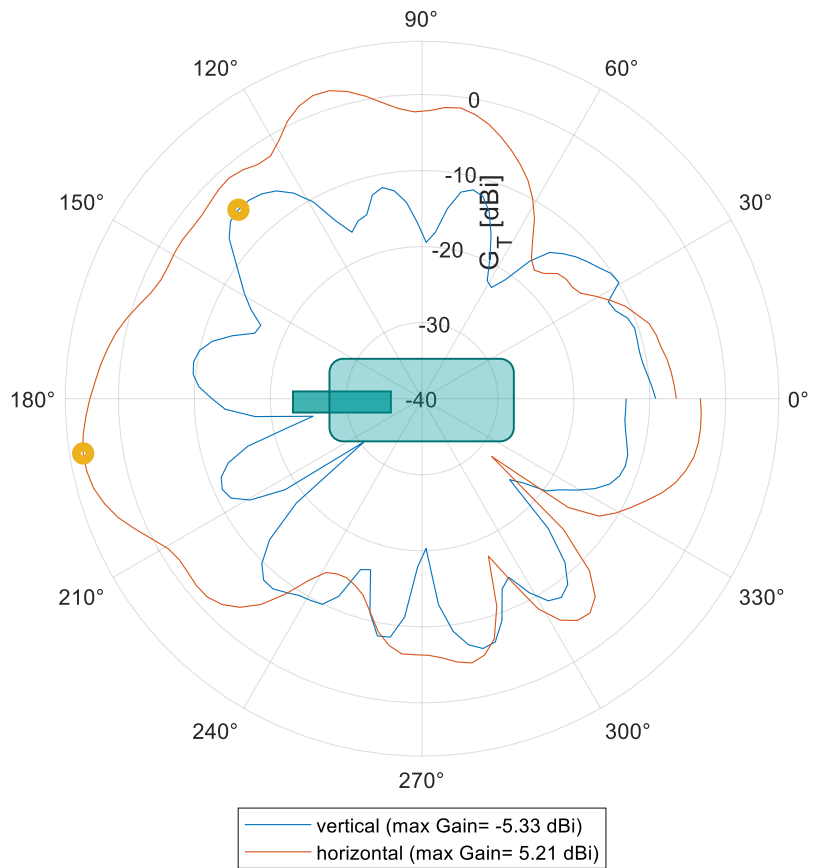
# CH9 - GAIN



x - axis

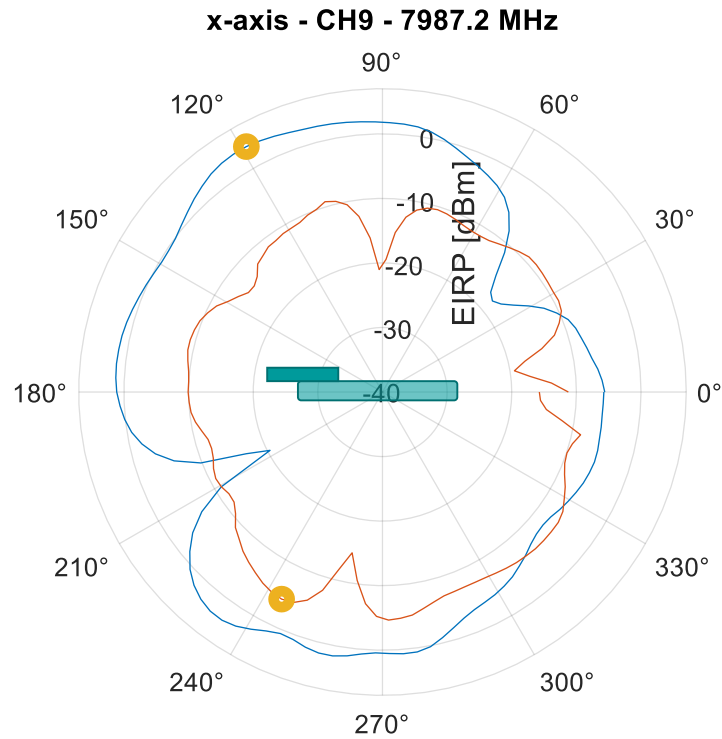


y - axis

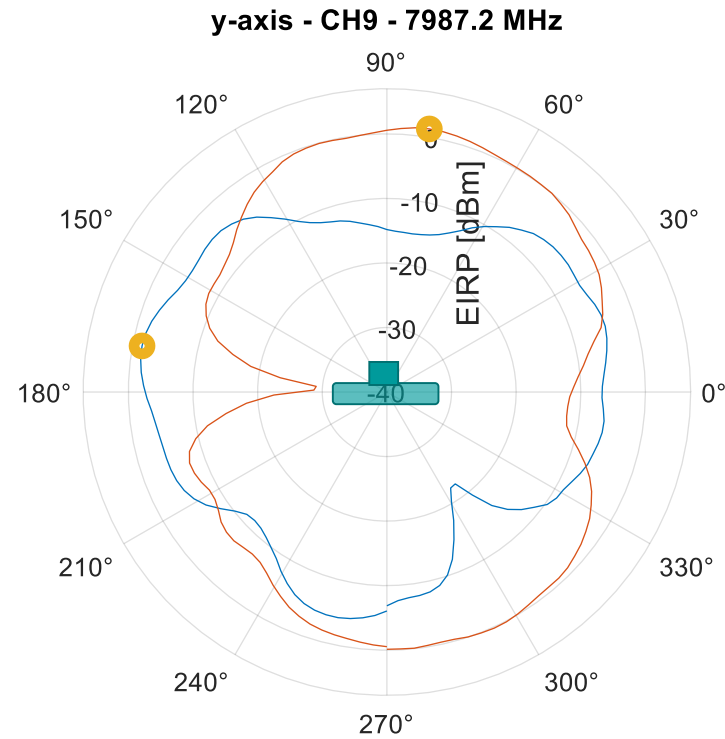


z - axis

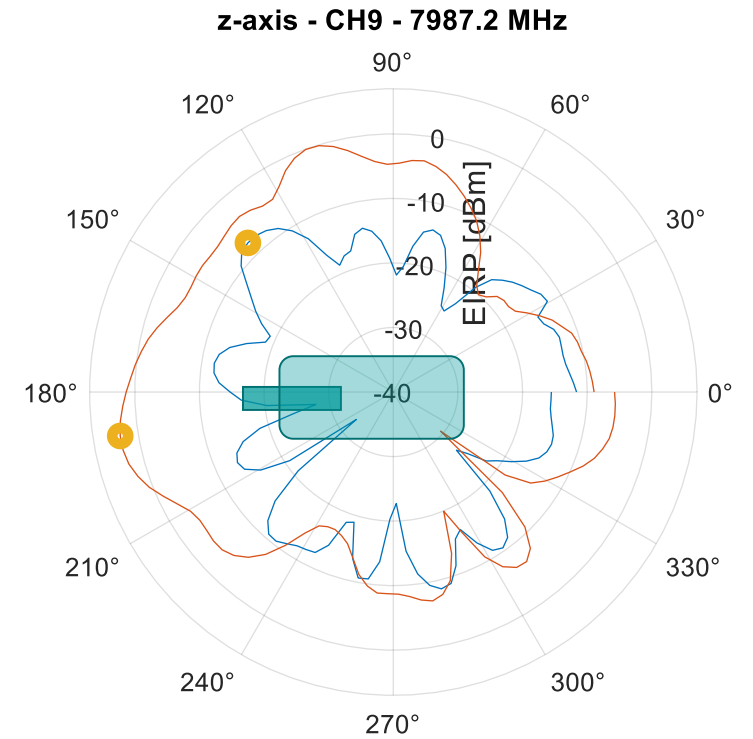
# CH9 - EIRP



x - axis



y - axis



z - axis