

Porsche P0426

5G-Antenna Datasheet

27.07.2021

M. Düring / M.Schöneberg

Fuba Electrical Engineering

Documentation Of Changes

Date	Chapter	Changes	Author
15.03.2021	1-2	Initial Version	M. Harms
25.03.2021	2	Additional Information	M. Düring
27.07.2021		New measurements C-sample	M.Schöneberg/ M-Düring



Table Of Content

- [1. Overview](#)
- [2. 5G Antenna Performance](#)
 - [2.1 Chamber](#)
- [3. Attachment](#)

1. Overview

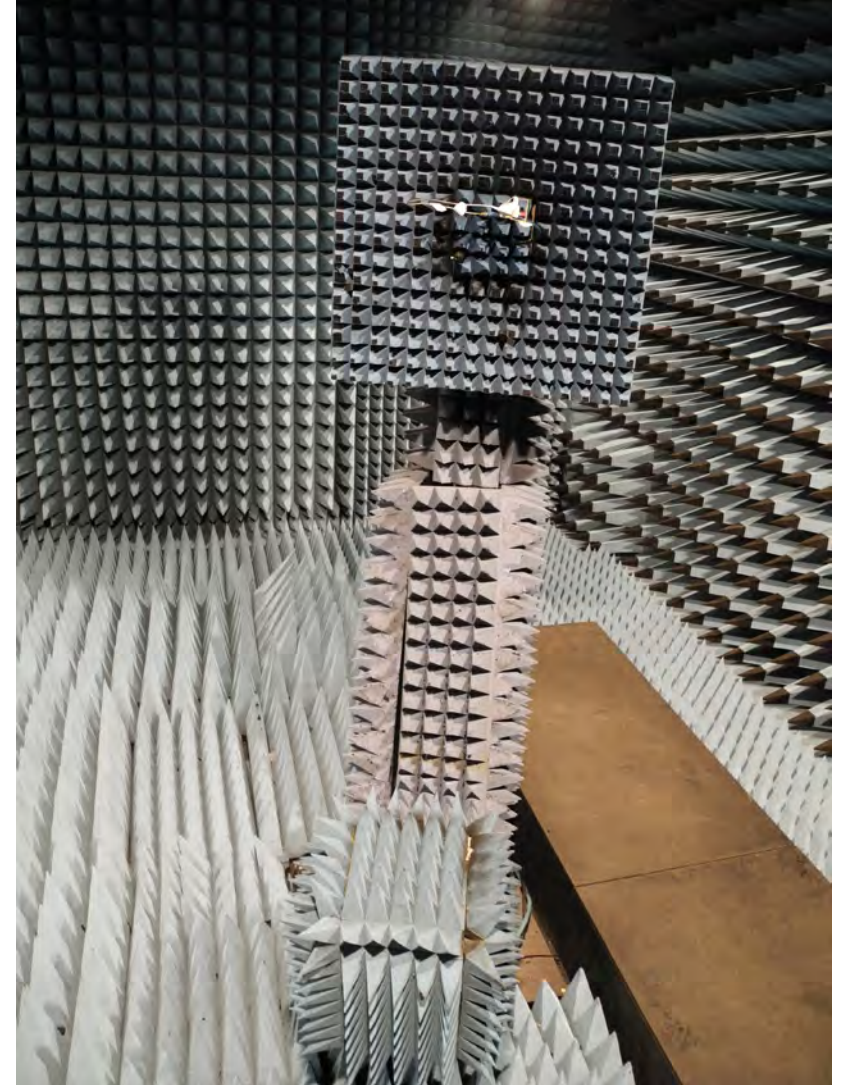
- In this datasheet the typical performance of the PO426 5G-Antenna C-Sample is given
- Data is shown for all 5G frequency-ranges, with 10K diagnosis resistor
- Measurements were taken with direct connection to AUT
- The Sample is C-Sample part from production
- Fuba Part Number and description **30006702/001-ANT-ASM,PO426,5G-ANT**
- Customer Part Number **95C 035 503**



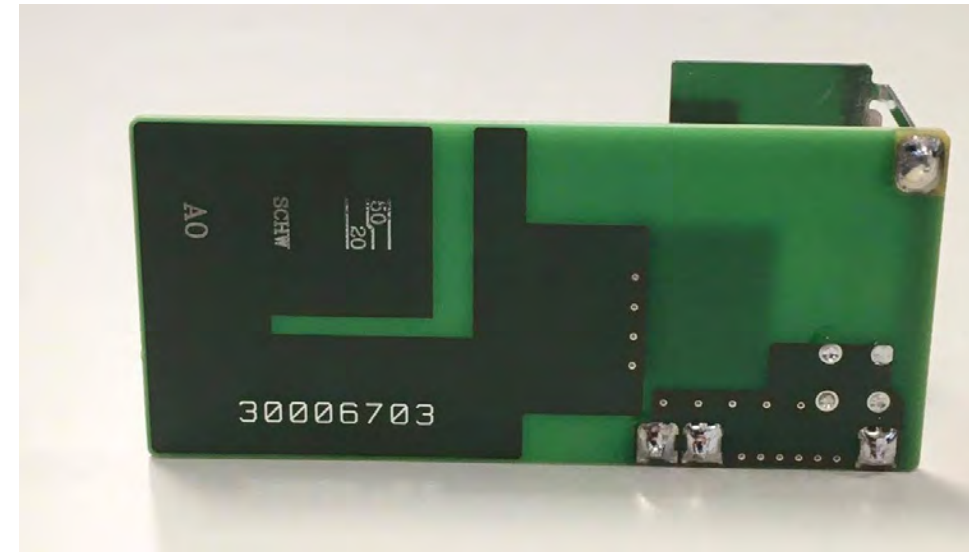
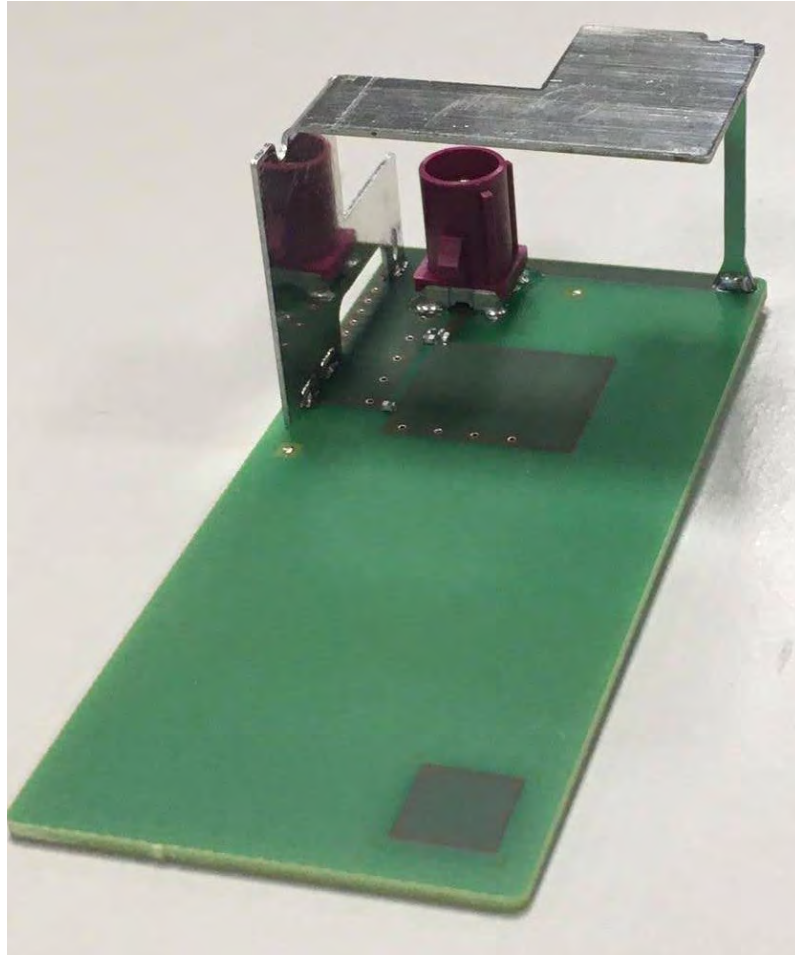
1. Overview

Anechoic Chamber with AUT

- Measurements were done in anechoic chamber
- the antenna under test (AUT) placed on an adapter in the center
- All depicted field data is farfield data calibrated to dBi



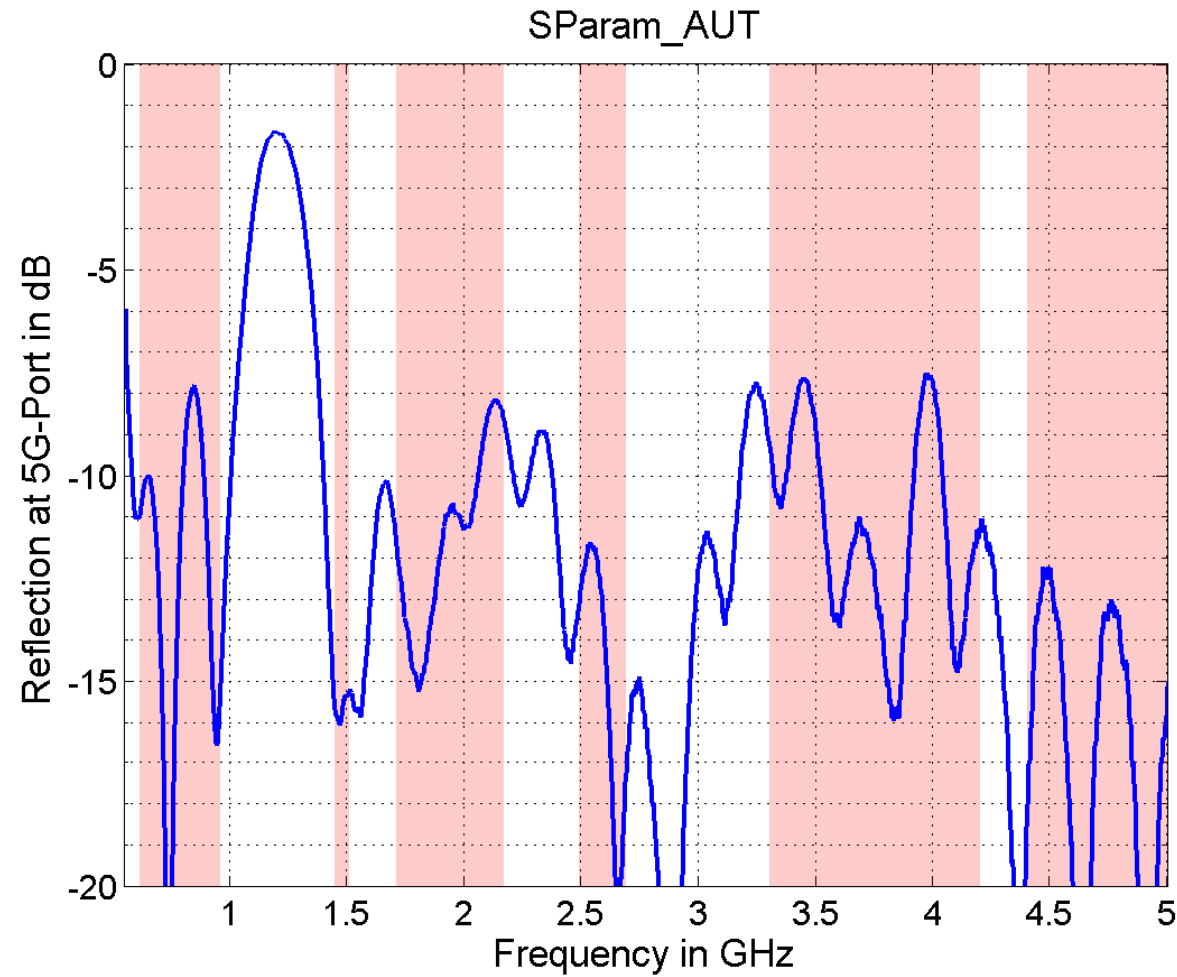
1. Overview AUT



2. 5G Antenna Performance

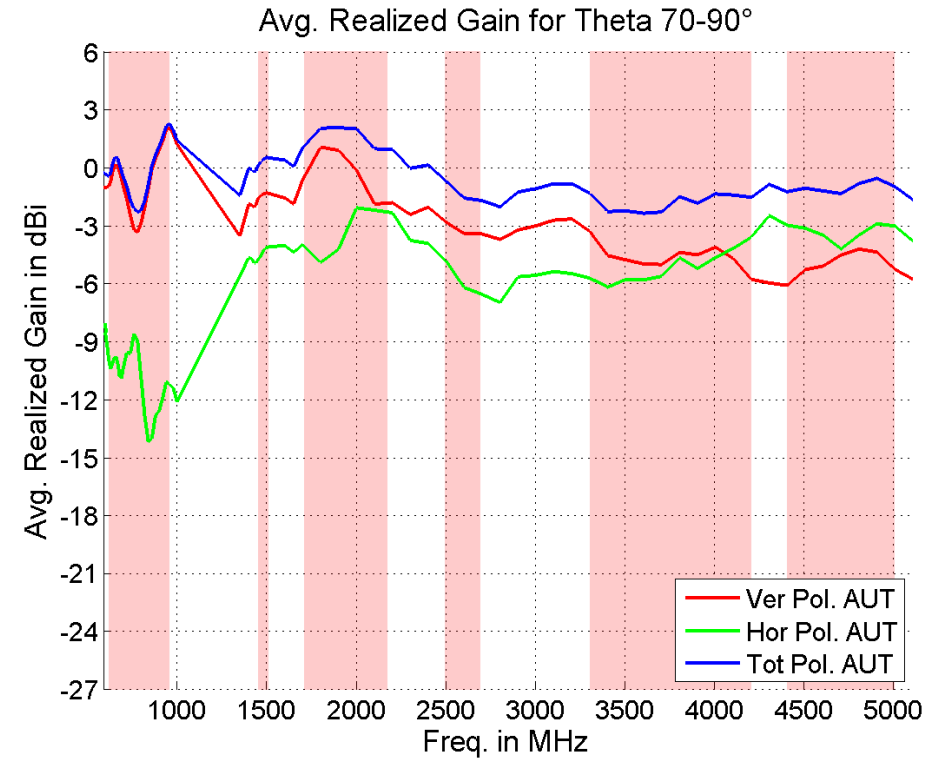
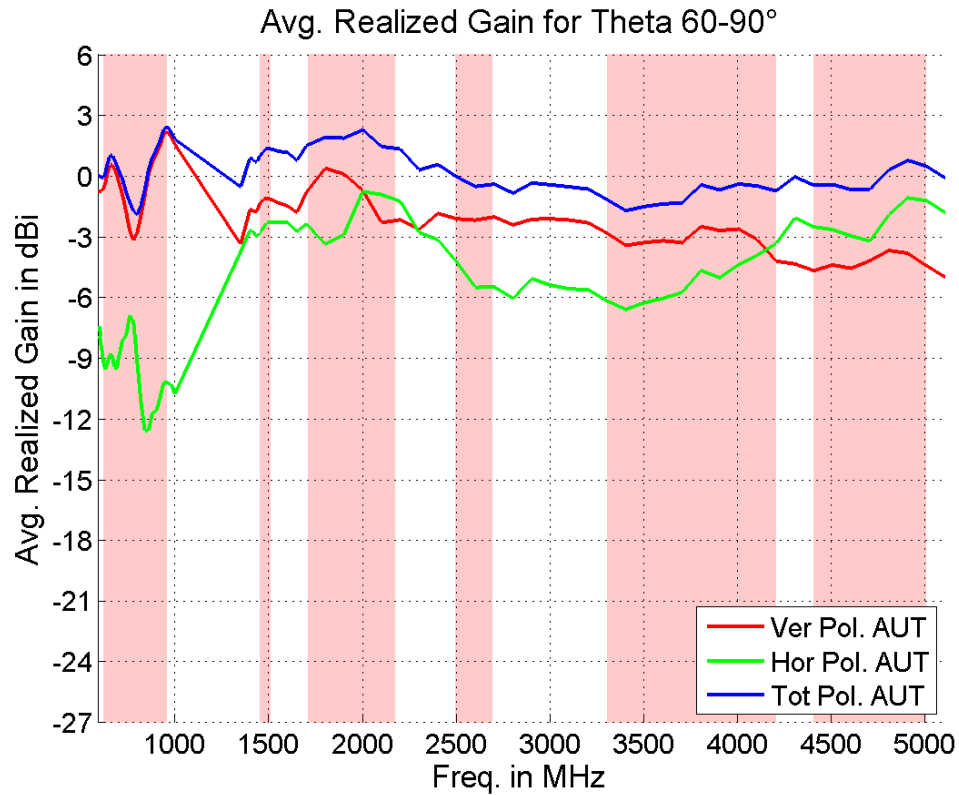


2. 5G Antenna Performance Matching

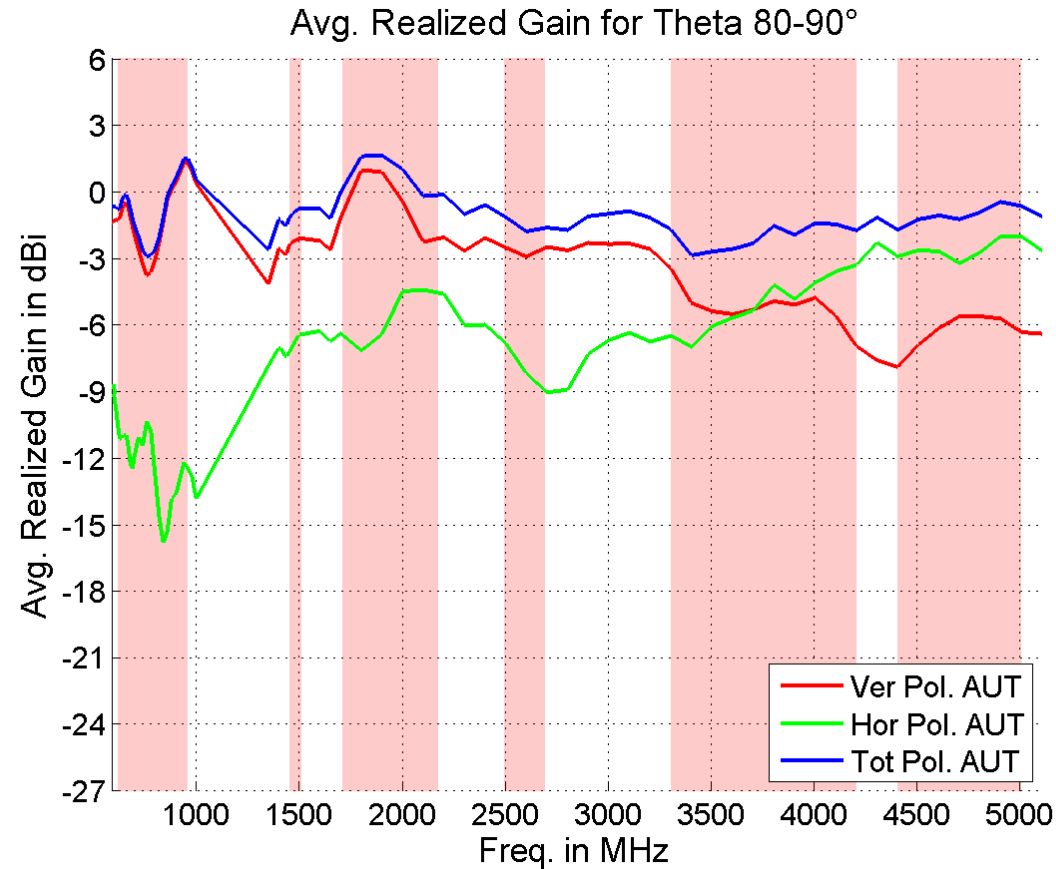


2. 5G Antenna Performance in Chamber

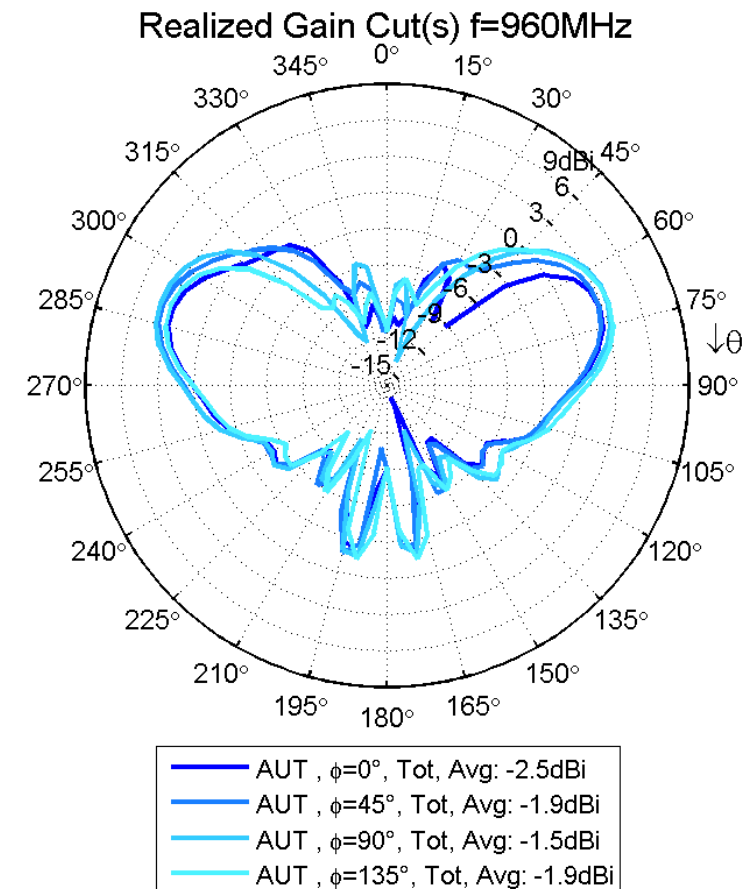
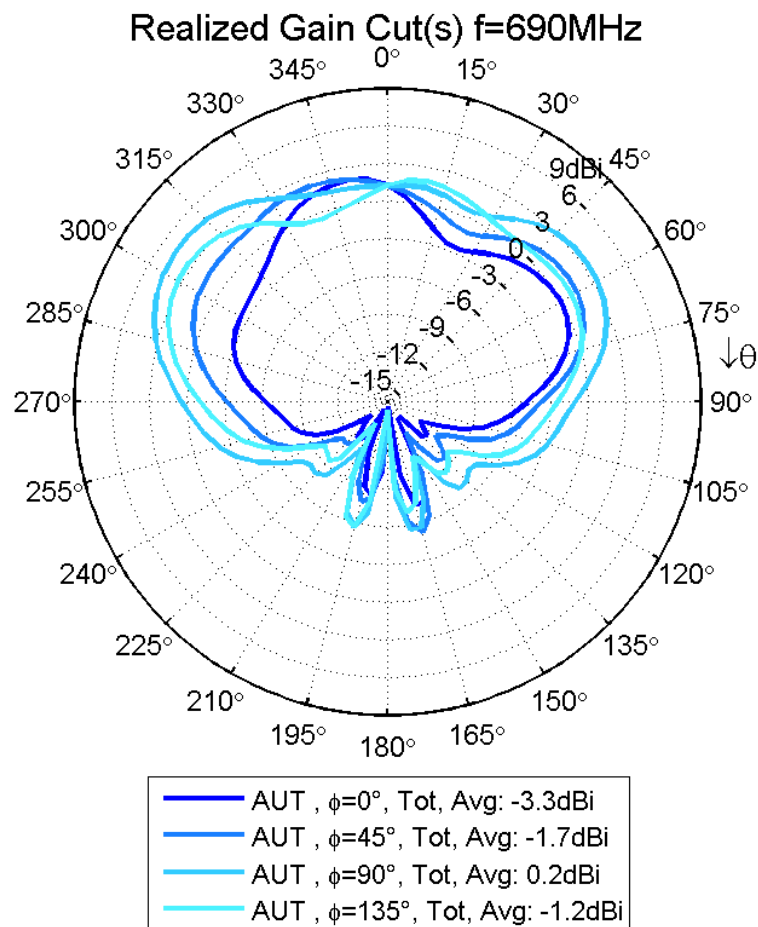
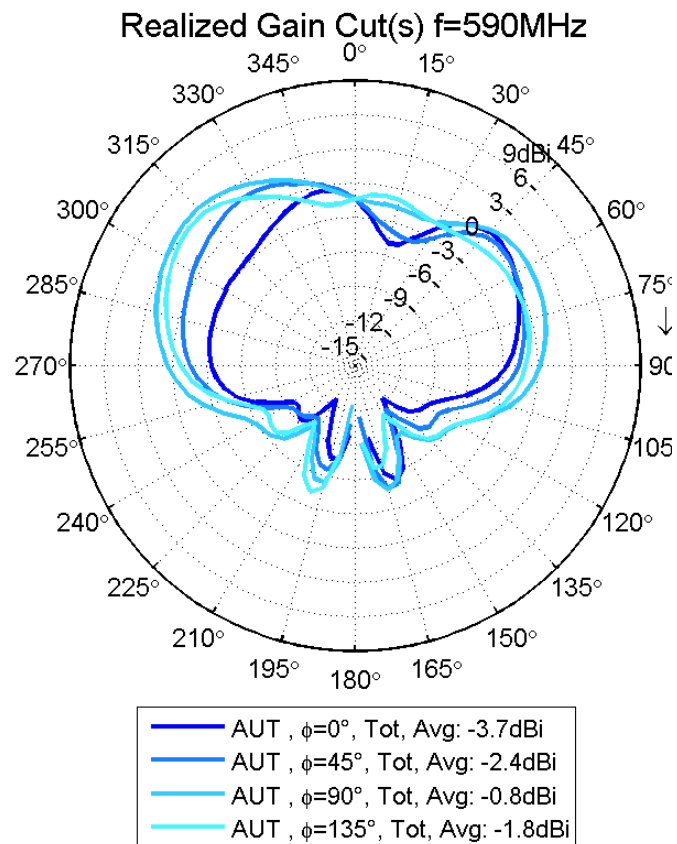
Chamber



2. 5G Antenna Performance in Chamber



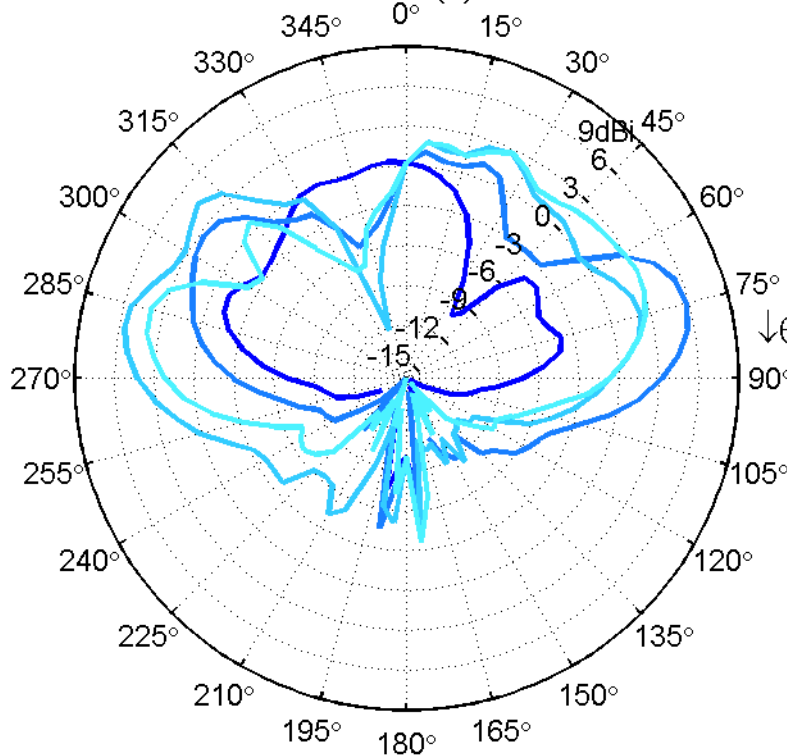
2. 5G Antenna Performance in Chamber



2. 5G Antenna Performance in Chamber

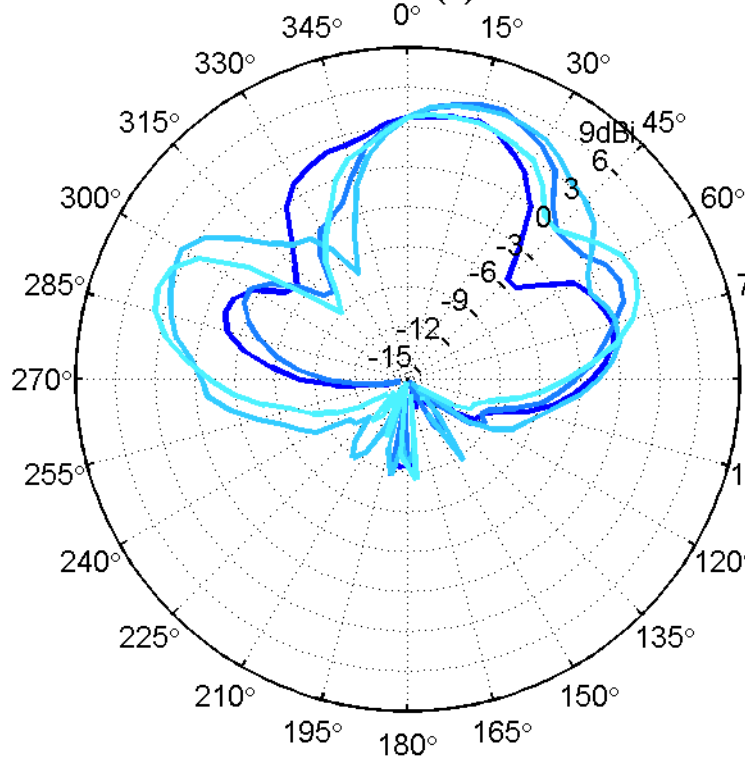
Chamber

Realized Gain Cut(s) f=1900MHz



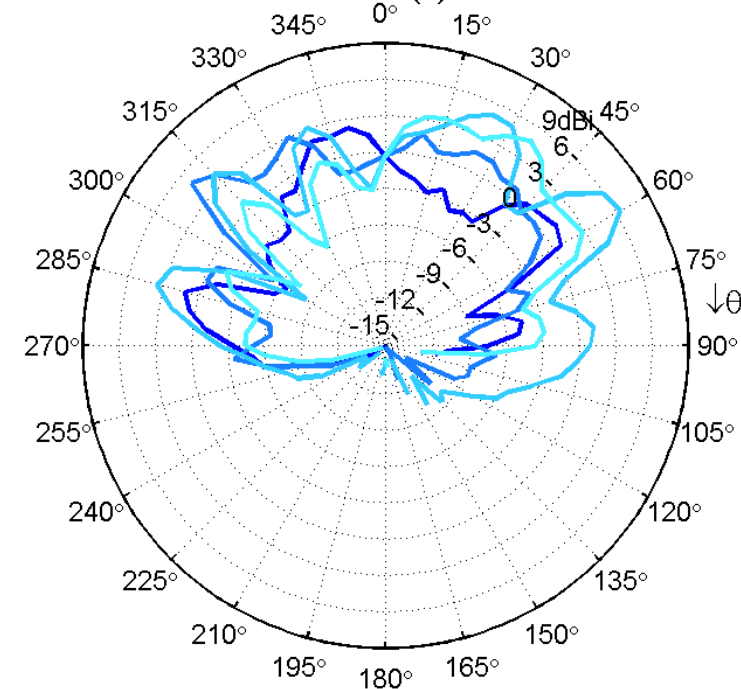
- AUT , $\phi=0^\circ$, Tot, Avg: -4.9dBi
- AUT , $\phi=45^\circ$, Tot, Avg: -1.2dBi
- AUT , $\phi=90^\circ$, Tot, Avg: -0.2dBi
- AUT , $\phi=135^\circ$, Tot, Avg: -1.2dBi

Realized Gain Cut(s) f=2300MHz



- AUT , $\phi=0^\circ$, Tot, Avg: -2.2dBi
- AUT , $\phi=45^\circ$, Tot, Avg: -1.7dBi
- AUT , $\phi=90^\circ$, Tot, Avg: -0.5dBi
- AUT , $\phi=135^\circ$, Tot, Avg: -1.1dBi

Realized Gain Cut(s) f=3500MHz



- AUT , $\phi=0^\circ$, Tot, Avg: -4.0dBi
- AUT , $\phi=45^\circ$, Tot, Avg: -2.7dBi
- AUT , $\phi=90^\circ$, Tot, Avg: -0.6dBi
- AUT , $\phi=135^\circ$, Tot, Avg: -2.5dBi



2. 5G Antenna Performance in Chamber

Chamber

