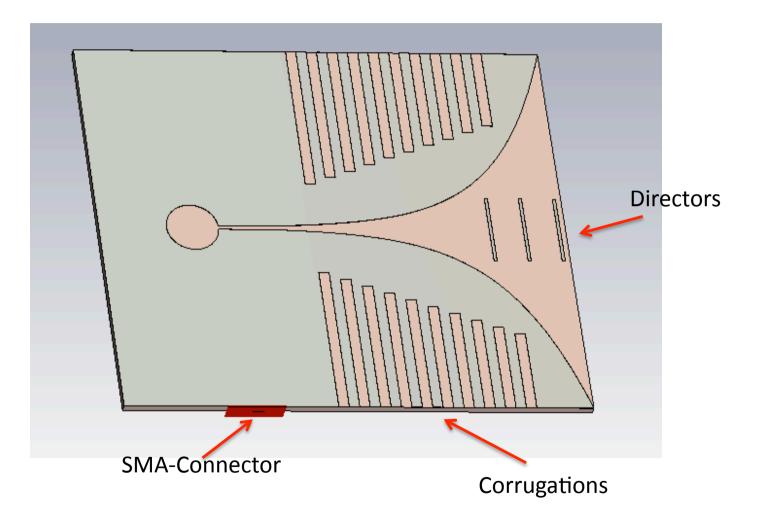
Vivaldi-LA Antenna Simulation/Measrement Report

St.Gallen, April 23rd 2016

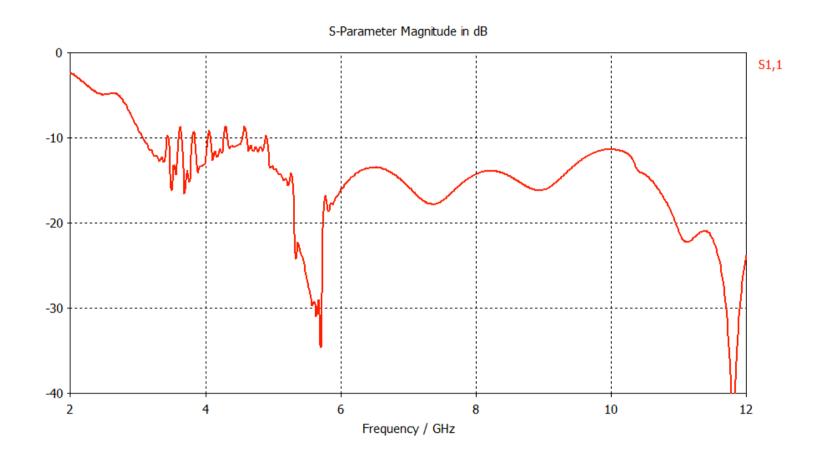
Type: Vivaldi-LA Antenna
-3dB Bandwidth: 7.4 – 9.0GHz
Gain: 8dBi
Polarization: linear
Impedance: 50 Ohms
Size: 50x50x2mm max.
Connector: SMA

Gain of a typical Vivaldi-Antenna is around +6dBi. Additional Gain can be achieved by external lenses or by adding directive Elements to the antenna. In our antenna we use:

- Directors in front of the antenna (similar to a Yagi-Antenna)
- Corrugations to the side (similar to a Horn-Antenna)

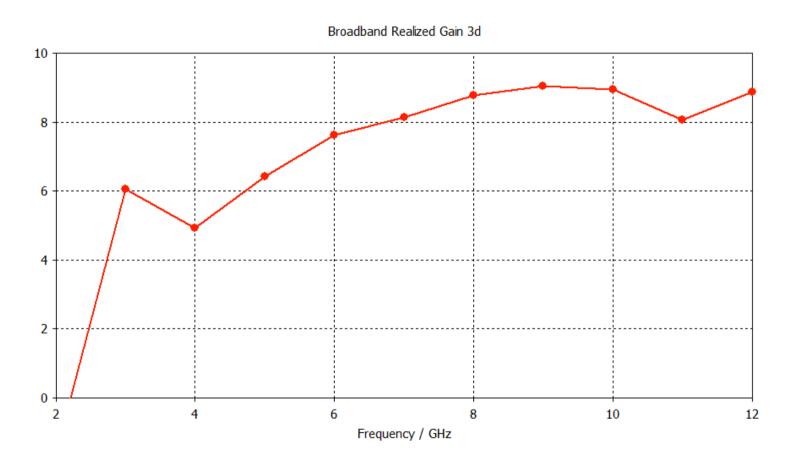


Simulated S11



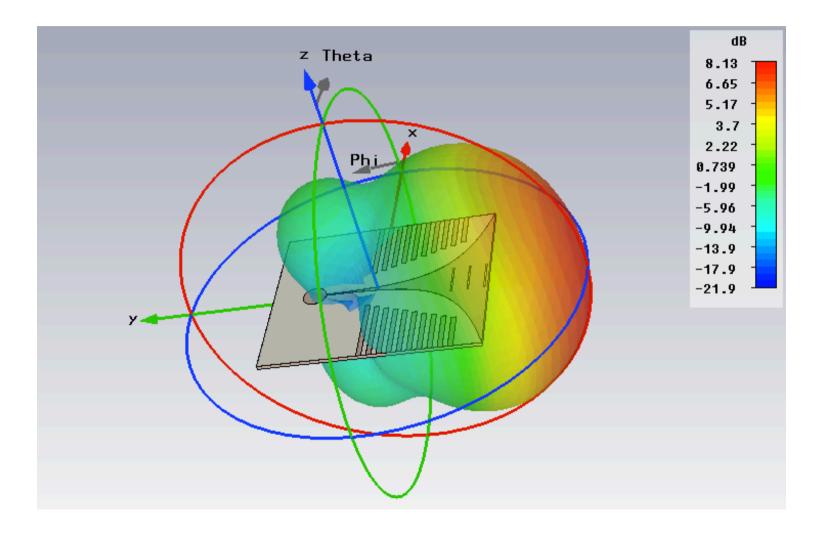
Antenna is matched (S11 <-10dB) for Frequencies >5GHz Antenna is usable up to 12GHz

Simulated Gain

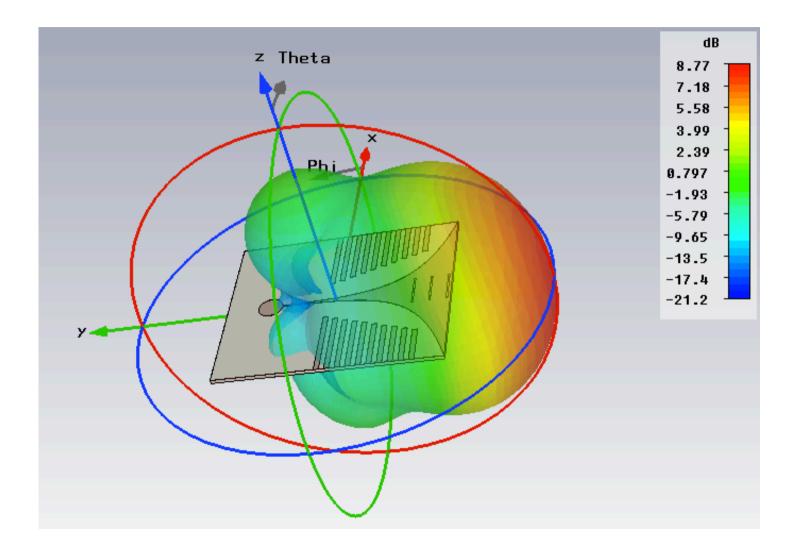


For Frequencies above 7GHz we have more than 8dBi realized gain

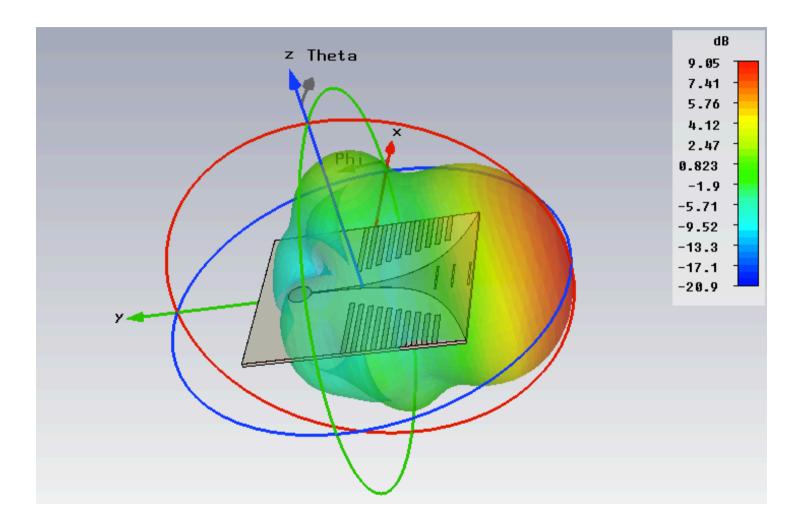
Radiation Pattern @7.4GHz



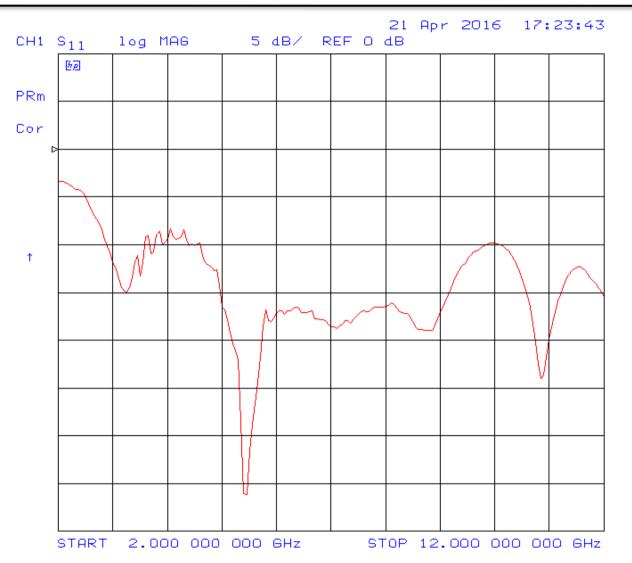
Radiation Pattern @8.2GHz

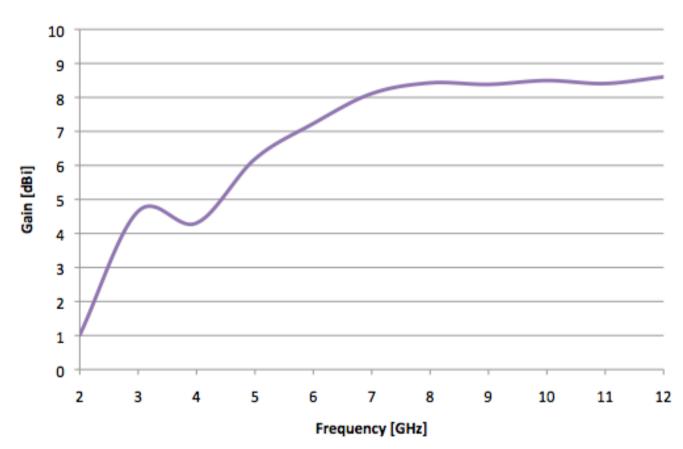


Radiation Pattern @9.0GHz



Measurement Results





Measured Gain