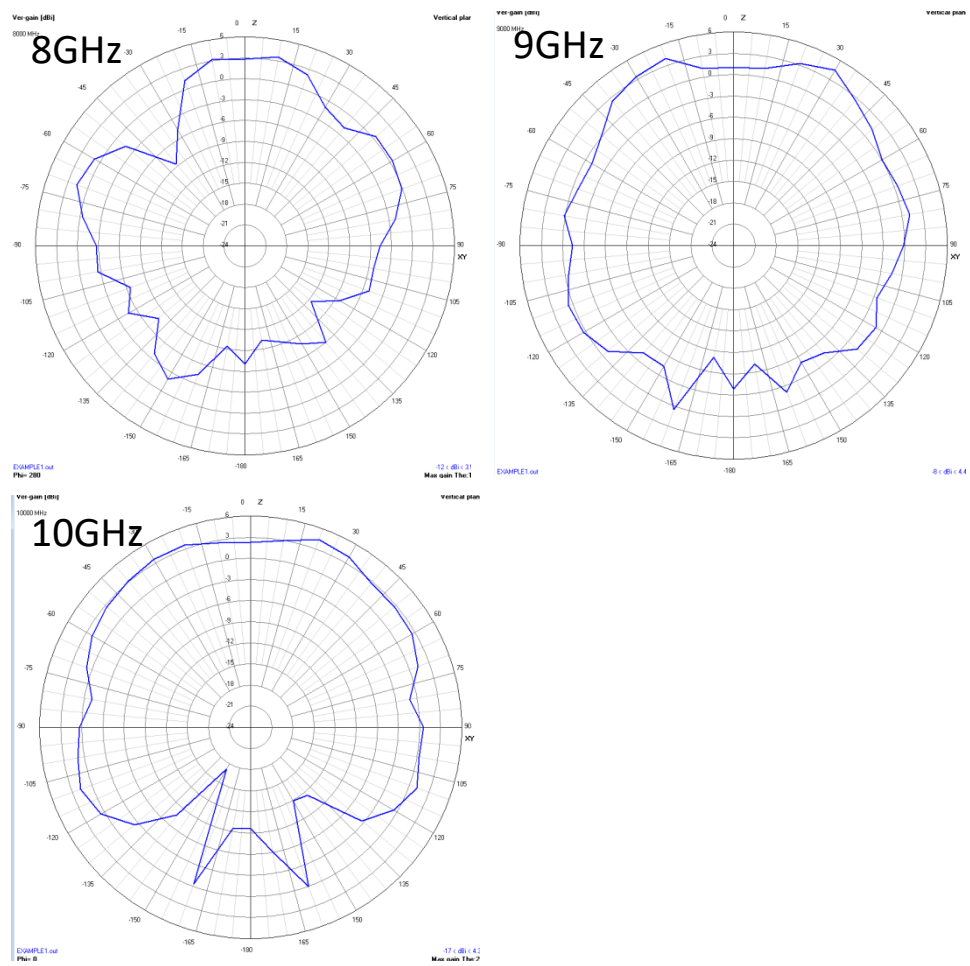


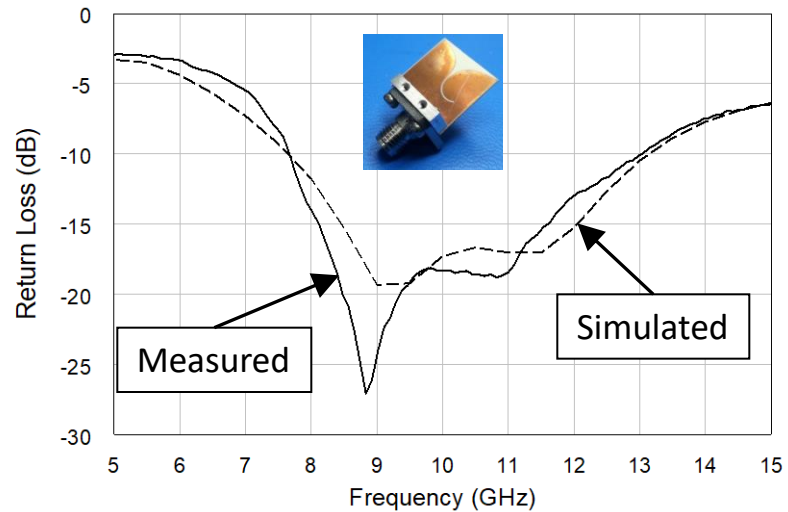
X-Band Measured Return Loss And Radiation Pattern Plots For Single Element Tapered Slot Antenna

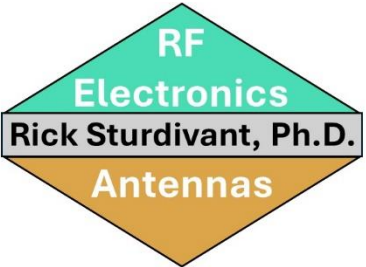
Measured Radiation Patterns (Total Gain)
 Without Ground Plane



- Bandwidth Goal = 8-10GHz
- Gain Goal: 5dB (with ground plane)
- Return Loss Goal: <-10dB

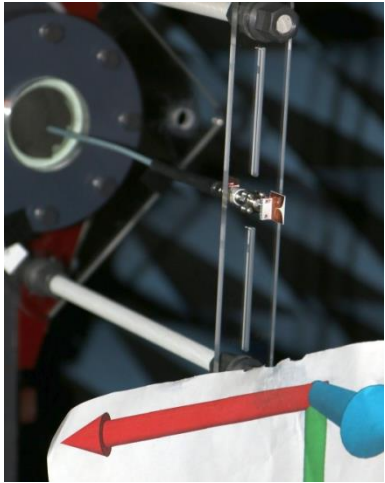
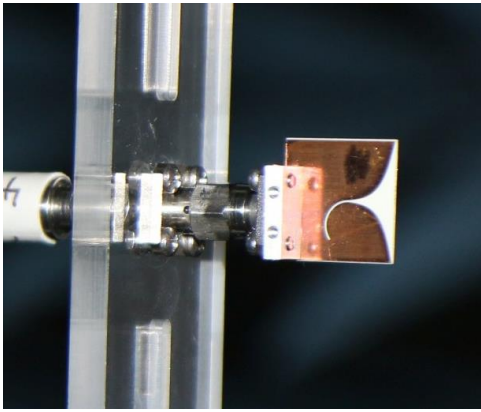
Measured and Simulated Return Loss



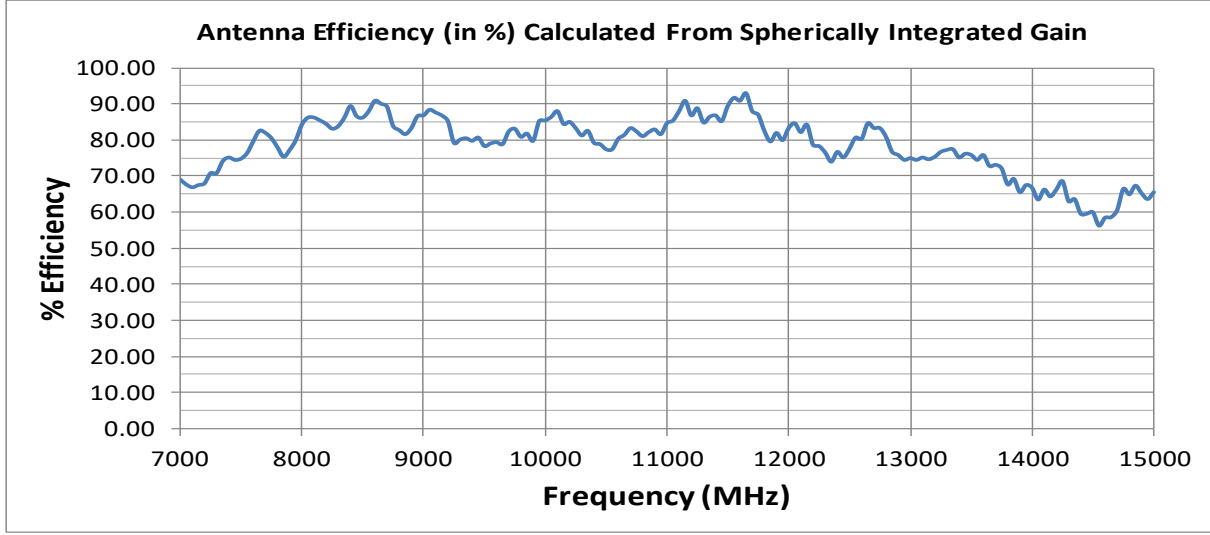


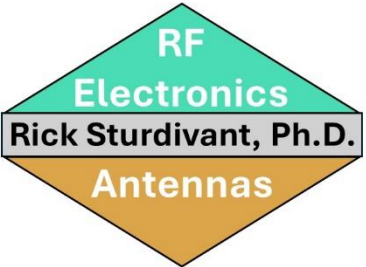
Antenna Pattern Of Single Element Shows Good Agreement With Simulated Data

Antenna Mounted In Chamber For Testing



- Measured antenna data shows 80% or better efficiency from 8-10GHz
- Better than 75% efficiency from 8-13GHz





A Four Element Antenna Array Was Fabricated With The Single Element and Measured Data Includes Beam Former Insertion Losses

Four Element at 9GHz Without Ground Plane

