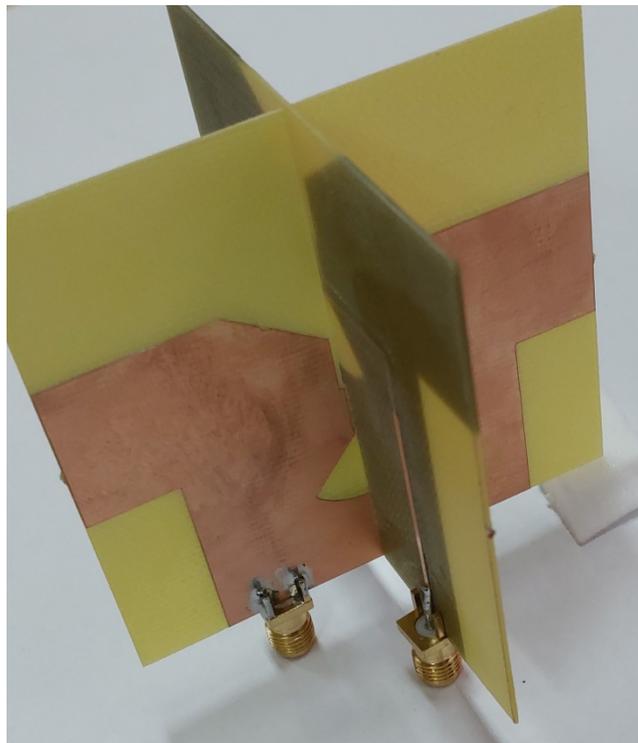


Antenna: 4.4 GHz-5.4 GHz

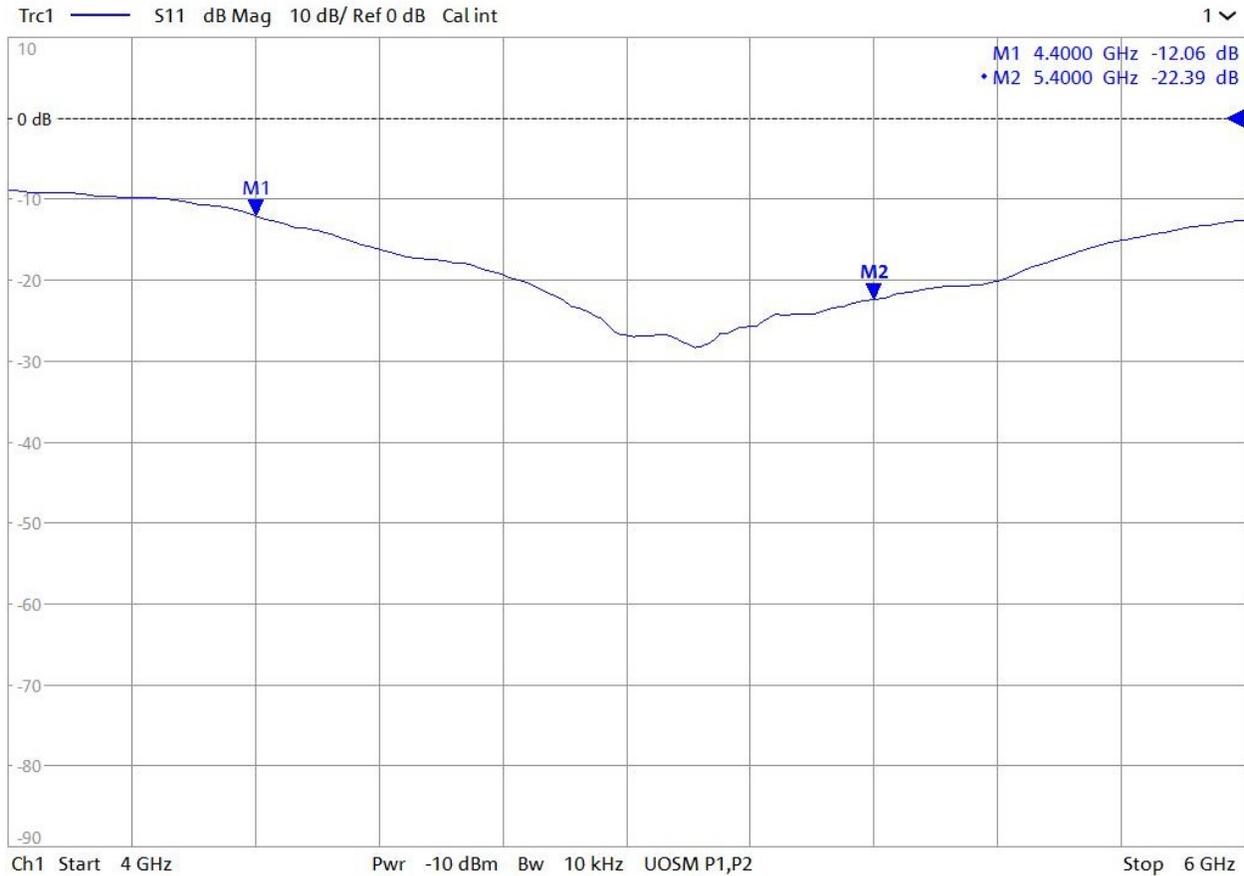
S.No	Parameter	Description
1	Frequency	4.4-5.4 GHz
2	Gain	>3dBi
3	Beam width (for Vertical dipole)	130 deg (Az) x 70 deg (Ei) (with back plate)
4	Size	100mm x100mmx40mm
5	Polarization	Linear V & H
6	Connector (Optional)	SMA
7	Impedance	50 Ohm
8	Antenna type	Crossed dipole
9	PCB type	FR4 (4.4Dk and 0.8mm thick)



TE TECH SOLUTION

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Photograph of crossed dipole



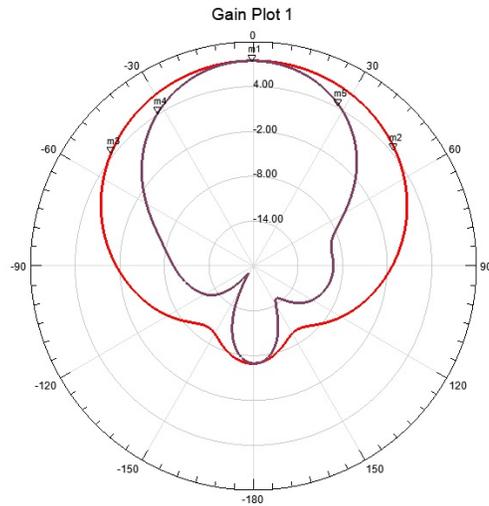
Measured Return loss plot

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Simulated Results

Name	Theta	Phi	Mag
m1	0.0000	0.0000	7.4569
m2	50.5000	50.5000	4.6021
m3	-51.5000	-51.5000	4.4105
m4	-32.0000	-32.0000	4.2135
m5	28.0000	28.0000	4.4000



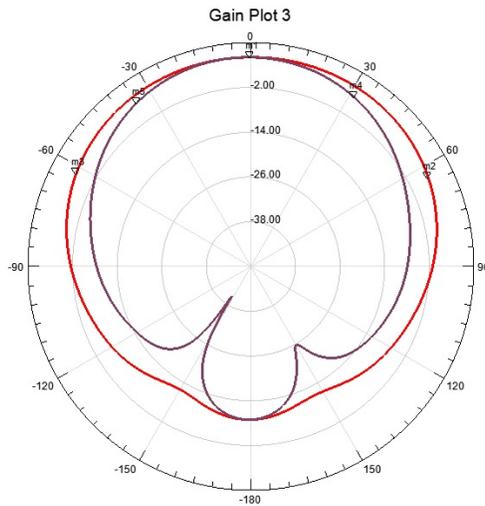
HFSSDesign1 ▲	
Curve Info	
—	dB(GainTotal)
Setup1: Sweep	Freq=4.4GHz Phi=0deg'
—	dB(GainTotal)
Setup1: Sweep	Freq=4.4GHz Phi=90deg'

Simulated radiation pattern at 4.4GHz

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Name	Theta	Ang	Mag
m1	0.0000	0.0000	6.0876
m2	63.5000	63.5000	3.3371
m3	-62.0000	-62.0000	3.1826
m4	31.5000	31.5000	3.1930
m5	-35.0000	-35.0000	3.5252



HFSSDesign1	
Curve Info	
—	dB(GainTotal)
Setup1: Sweep	Freq=5.4GHz Phi=0deg
—	dB(GainTotal)
Setup1: Sweep	Freq=5.4GHz Phi=90deg

Simulated radiation pattern at 5.4GHz

TE TECH SOLUTION

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