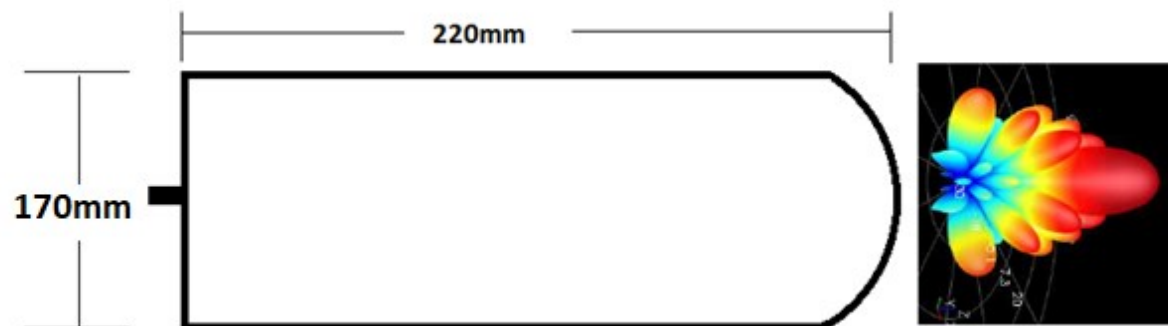




Antenna Datasheet

0.4 GHz -6 GHz Frequency Band

S.No	Parameter	Description
1	Frequency	0.4GHz-6GHz
2	Gain	>0dBi @0.4GHz >4.0dBi@1GHz >7.5dBi@2GHz >9.0dBi-12.0dBi from 2.4-6GHz
3	Beam width	150 deg (Az) x 80 deg(EI) @ 0.4GHz 75 deg (Az) x 42 deg (EI) @ 3GHz 45 deg (Az) x 52deg (EI) @5GHz 30 deg (Az) x 54 deg (EI)@6GHz
4	Size	170mm x 220mm x 10mm
5	Polarization	Linear
6	Connector (Optional)	SMA
7	Impedance	50 Ohm
8	Radiation	ENDFIRE
9	Antenna Type	Vivaldi



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Antenna radiation pattern

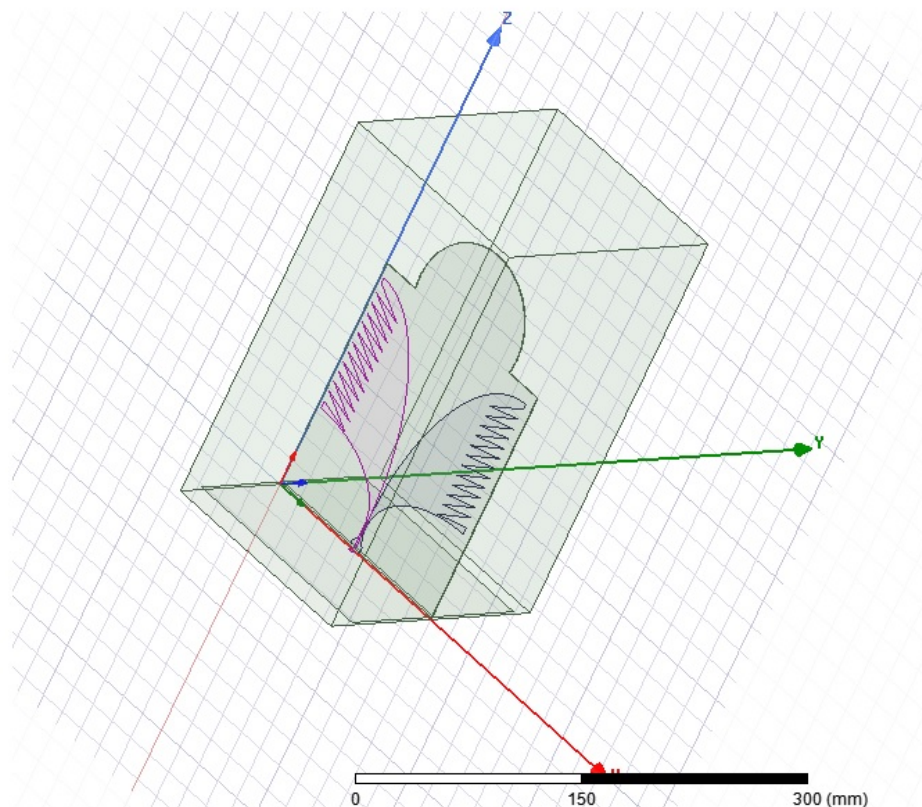


Fig.1 Simulated Antenna Model

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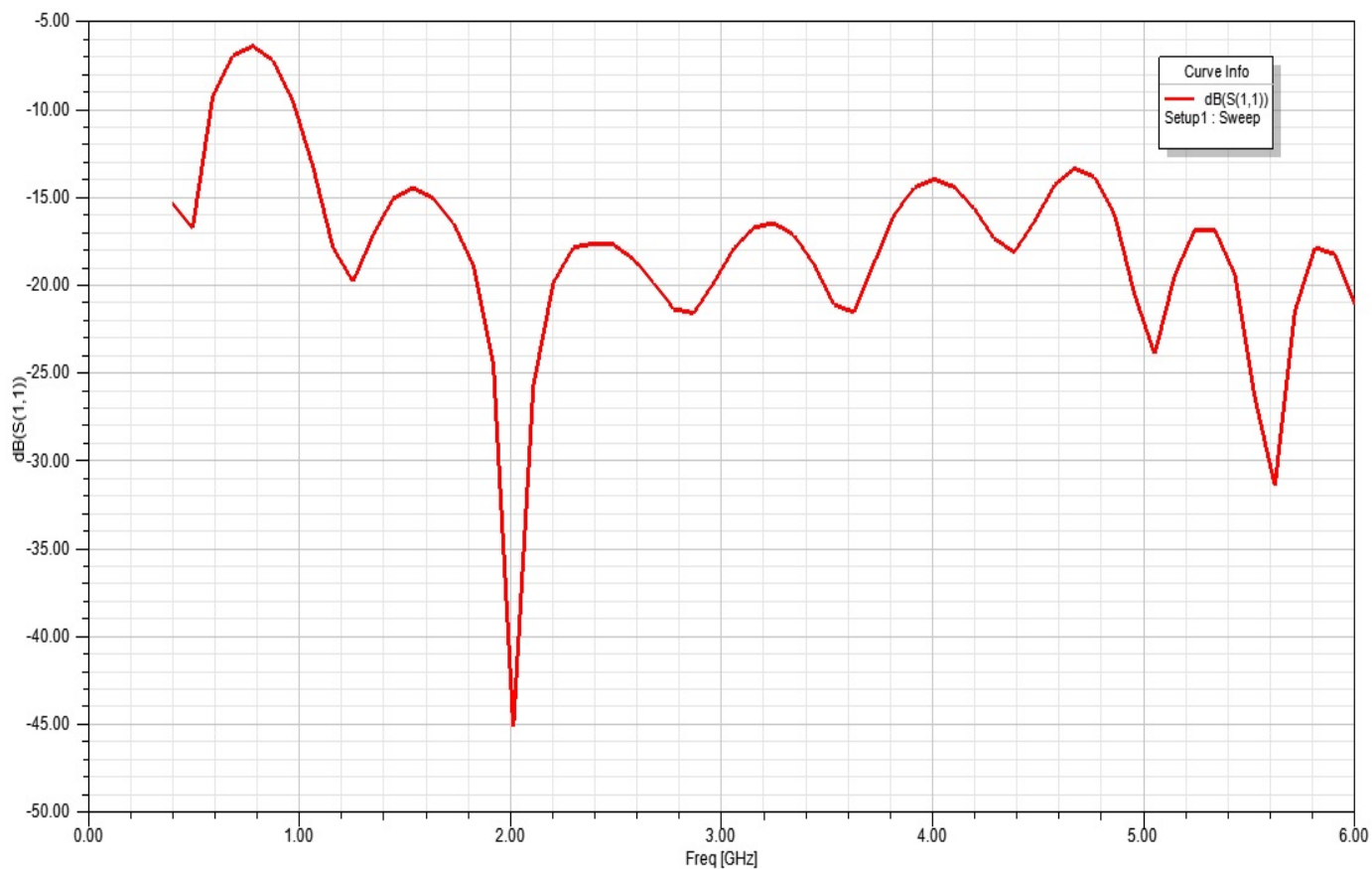


Fig2. Simulated return loss of the antenna

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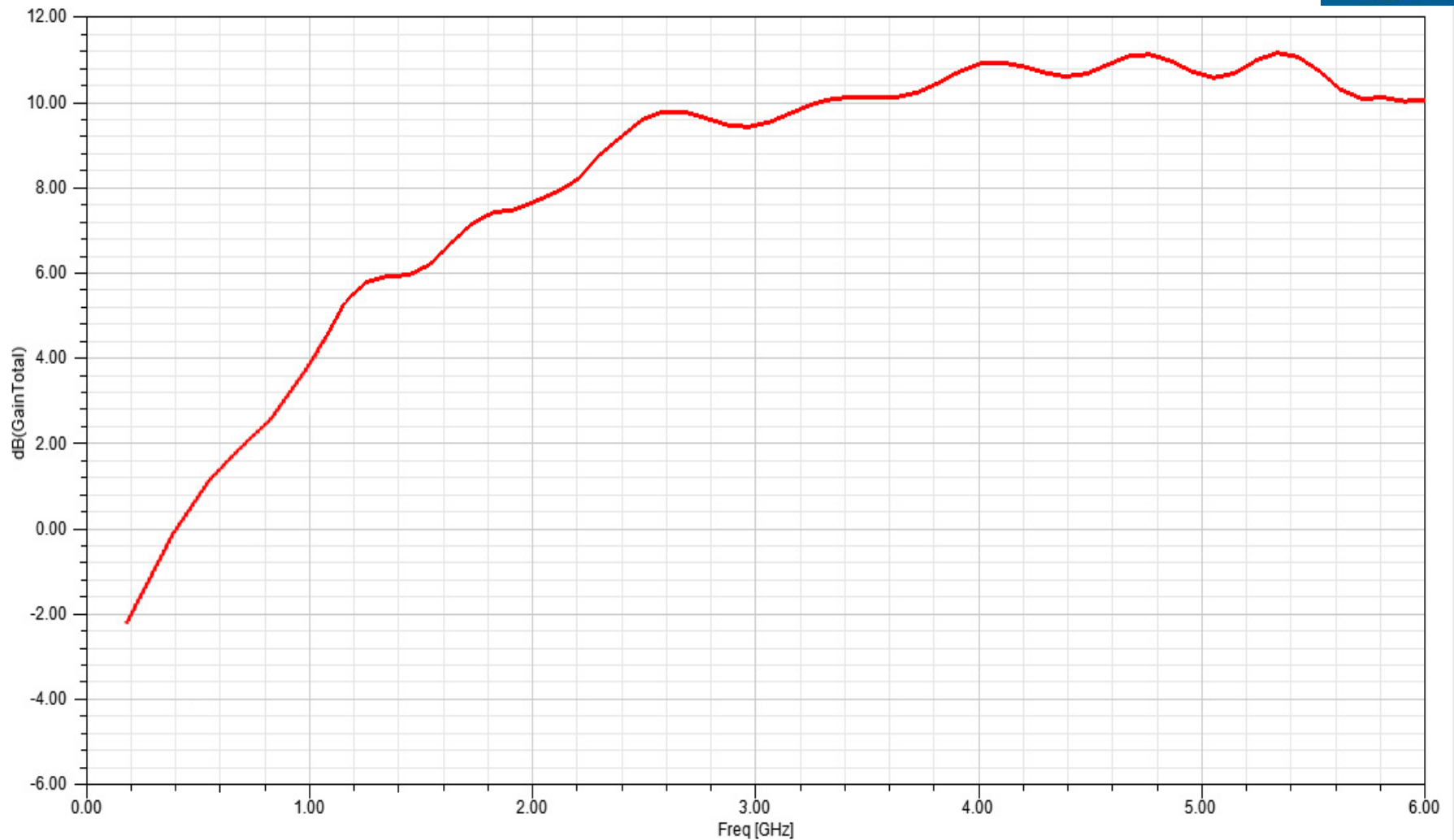


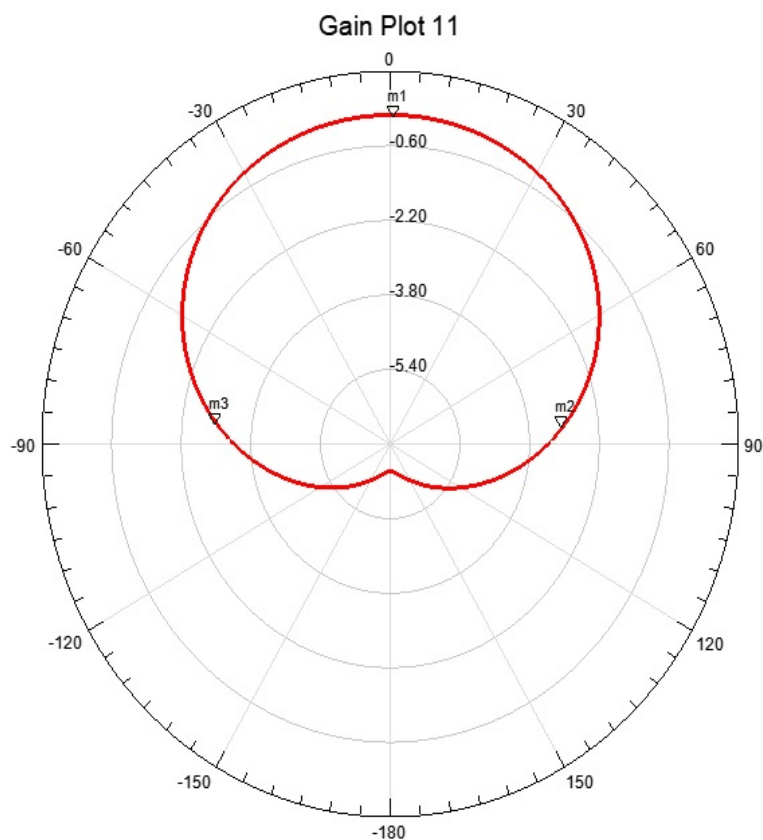
Fig3. Simulated Gain plot of the antenna

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Name	Theta	Ang	Mag
m1	1.0000	1.0000	0.0595
m2	84.5000	84.5000	-3.0041
m3	276.5000	-83.5000	-2.9715



HFSSDesign1

Curve Info
— dB(GainTotal)
Setup1 : Sweep
Freq=0.4GHz' Phi=90deg'

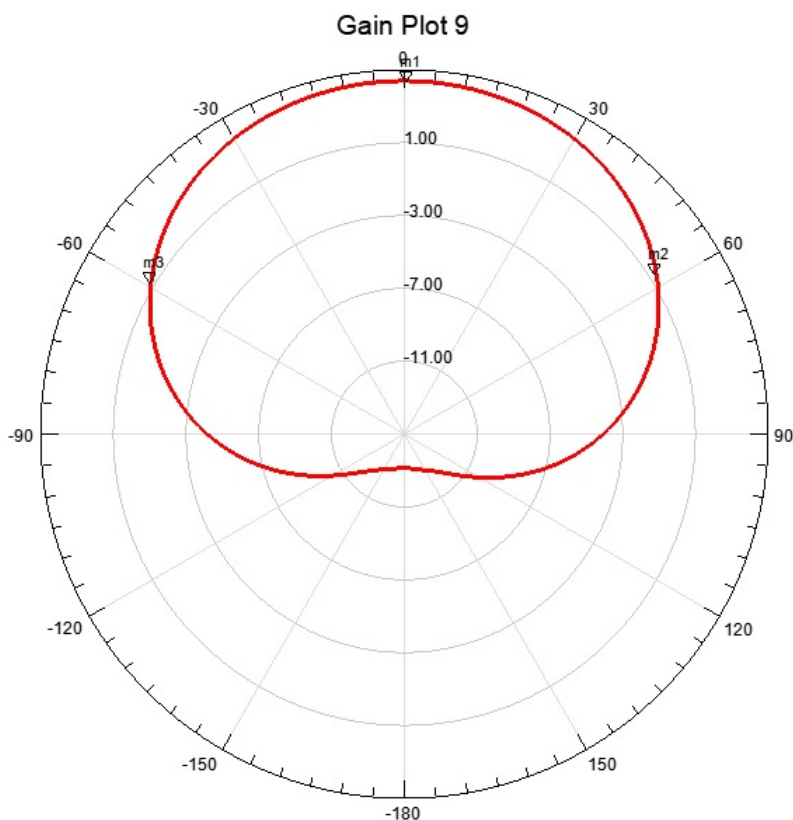
Fig4. Simulated Radiation pattern of the antenna @0.4GHz

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Name	Theta	Ang	Mag
m1	0.5000	0.5000	4.3860
m2	57.5000	57.5000	1.4113
m3	301.0000	-59.0000	1.2298



HFSSDesign1	
Curve Info	
—	dB(GainTotal)
Setup1 : Sweep	
Freq='1.06440678GHz' Phi='90deg'	

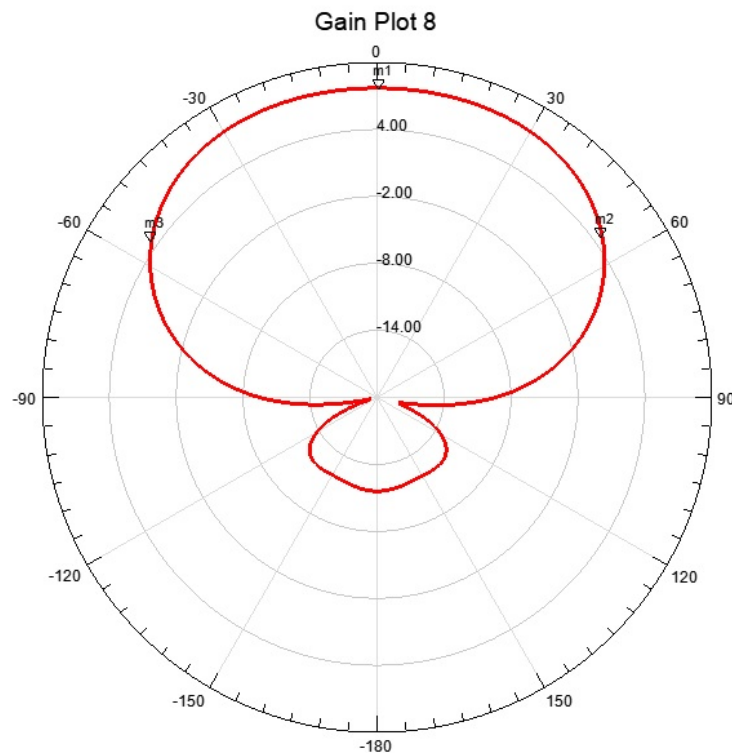
Fig5. Simulated Radiation pattern of the antenna @1.0GHz

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Name	Theta	Ang	Mag
m1	0.5000	0.5000	7.7004
m2	54.5000	54.5000	4.7842
m3	305.0000	-55.0000	4.6349



HFSSDesign1	
Curve Info	
—	dB(GainTotal)
Setup1 : Sweep	
Freq=2.013559322GHz' Phi='90deg'	

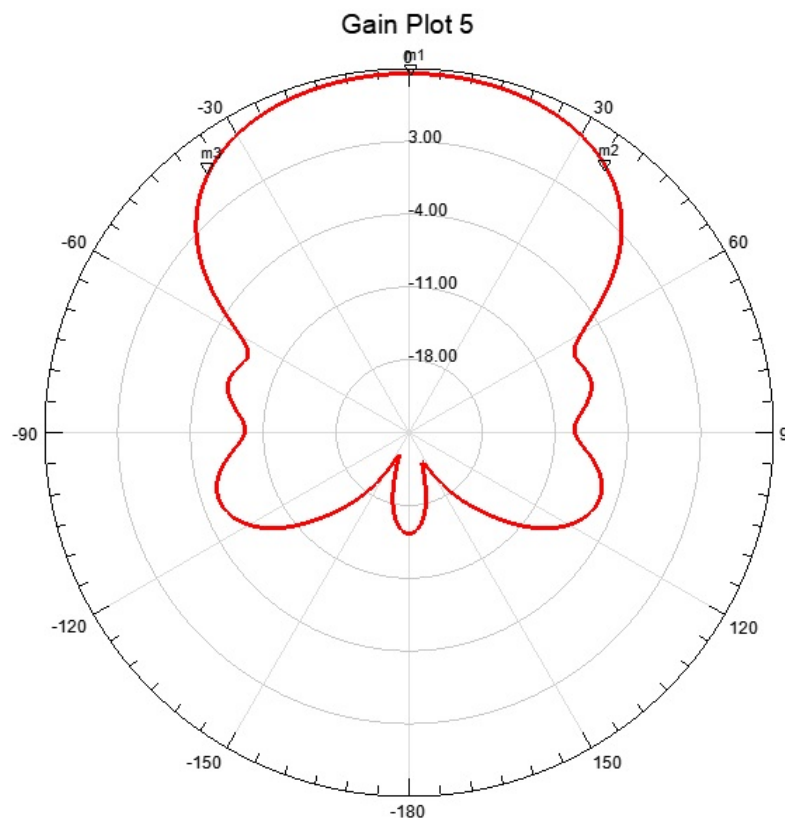
Fig6. Simulated Radiation pattern of the antenna @2.0GHz

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Name	Theta	Ang	Mag
m1	0.5000	0.5000	9.5315
m2	37.0000	37.0000	6.6483
m3	322.5000	-37.5000	6.5630



HFSSDesign1

Curve Info
— dB(GainTotal)
Setup1 : Sweep
Freq=3.057627119GHz' Phi=90deg'

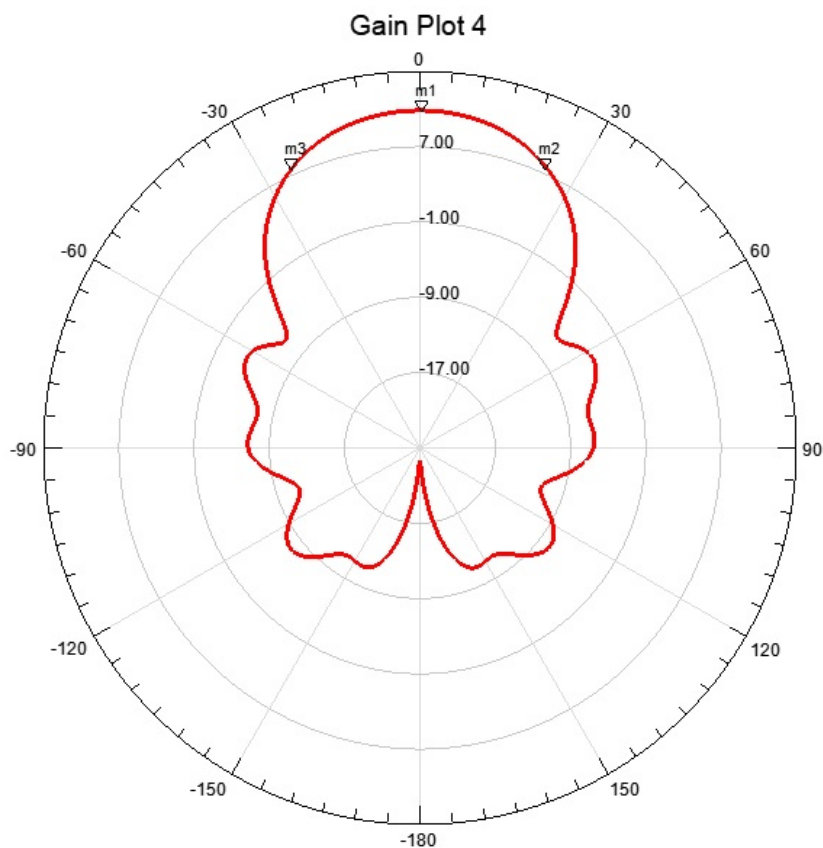
Fig7. Simulated Radiation pattern of the antenna @3.0GHz

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Name	Theta	Ang	Mag
m1	0.5000	0.5000	10.8437
m2	24.5000	24.5000	7.6247
m3	335.5000	-24.5000	7.6945



HFSSDesign1

Curve Info
dB(GainTotal)
Setup1 : Sweep
Freq=4.006779661GHz' Phi=90deg'

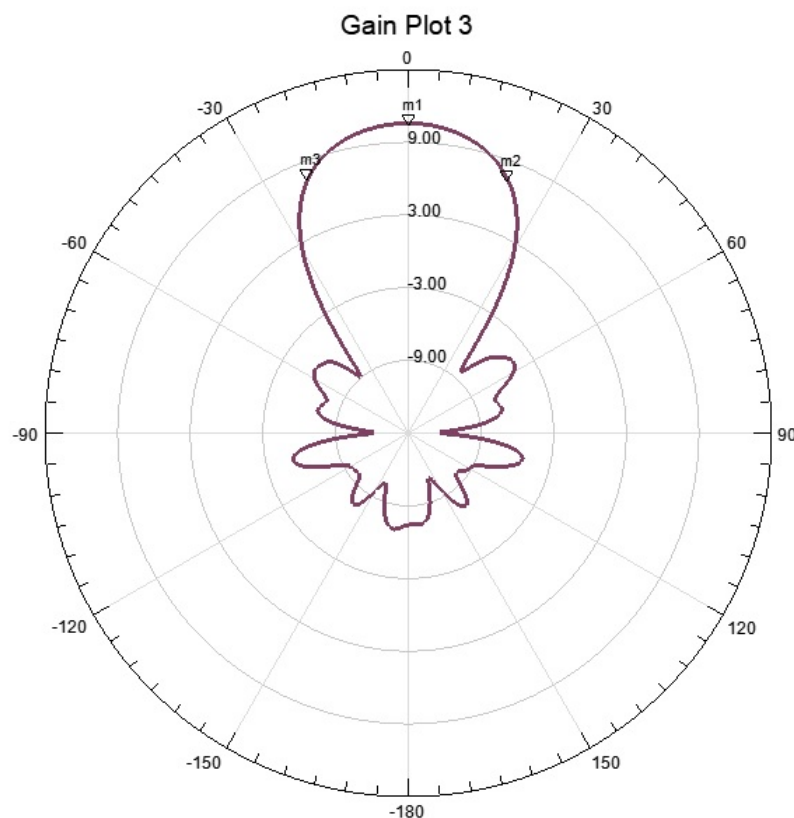
Fig8. Simulated Radiation pattern of the antenna @4.0GHz

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Name	Theta	Ang	Mag
m1	0.5000	0.5000	10.5551
m2	21.5000	21.5000	7.4509
m3	338.5000	-21.5000	7.5549



HFSSDesign1

Curve Info
dB(GainTotal)_1
Setup1 : Sweep
Freq=5.050847458GHz' Phi=90deg'

Fig7. Simulated Radiation pattern of the antenna @5.0GHz

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Name	Theta	Ang	Mag
m1	360.0000	-0.0000	10.0412
m2	14.5000	14.5000	7.0991
m3	345.0000	-15.0000	7.0007

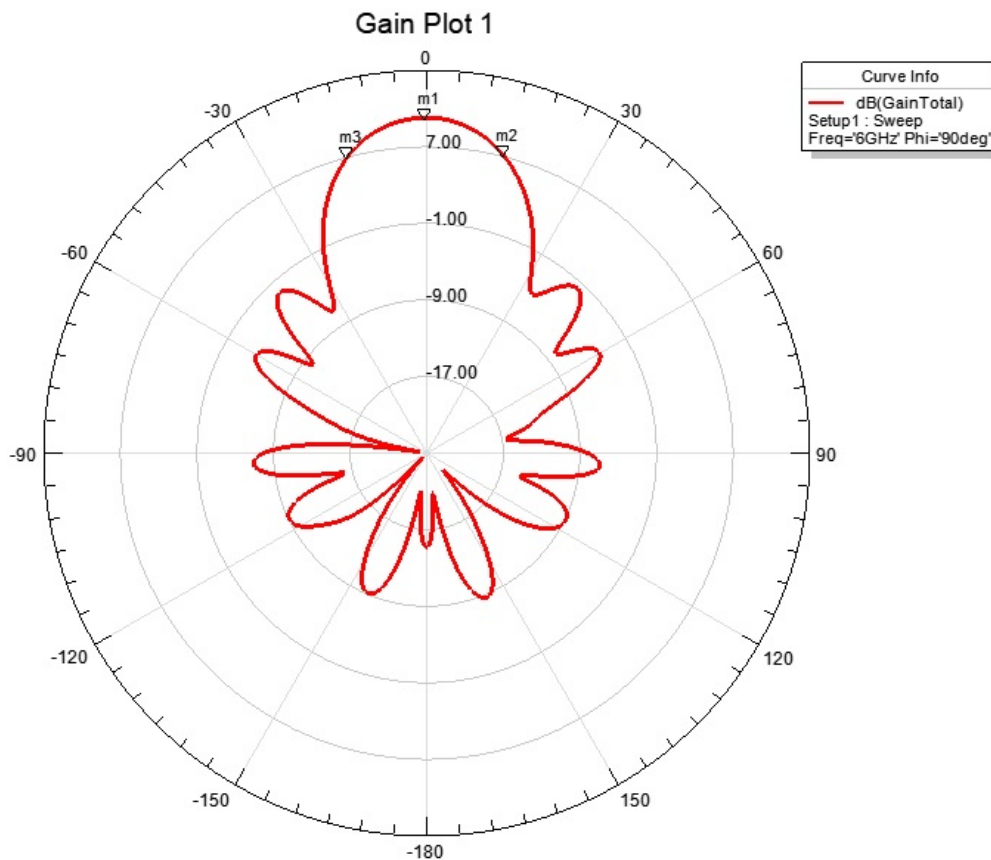


Fig8. Simulated Radiation pattern of the antenna @6.0GHz

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