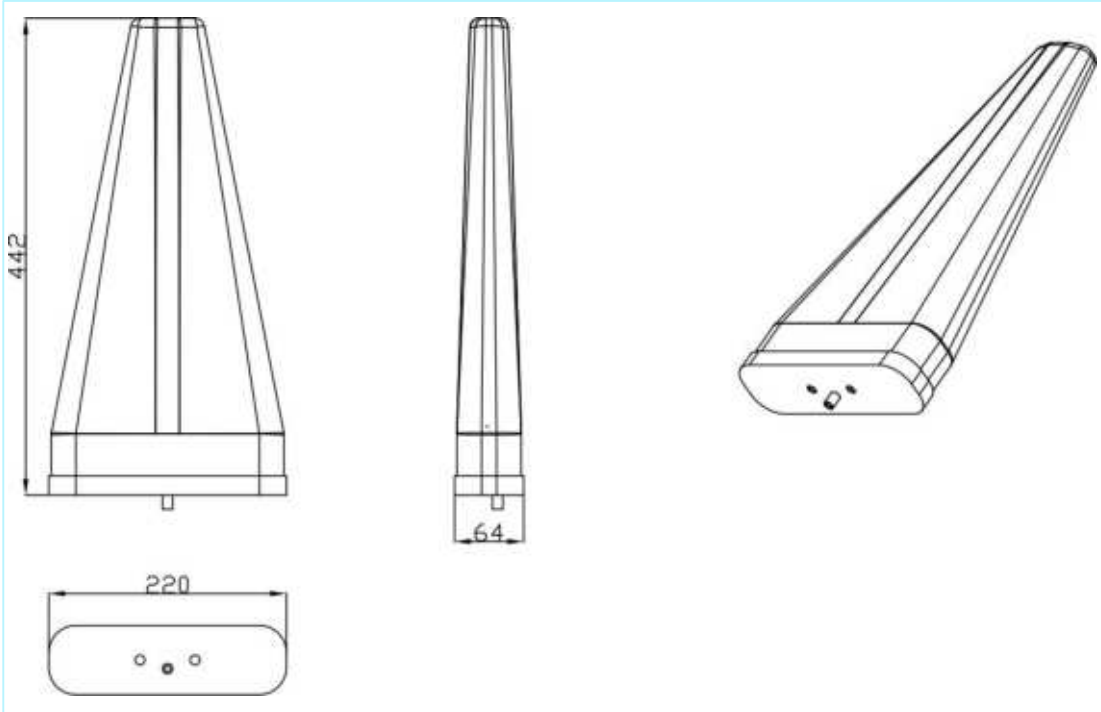
Maswell 5G High Gain Ultra Wideband Log Periodic Antenna

AN_Master_005



Mechanical dimension



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AN_Master_005

Specifications

Item		Specifications
Antenna	Center Frequency	600~6000 MHz
	Polarization	Linear
	Gain	9.50dBi (Zenith)
	V.S.W.R	< 2.0
	Impendance	50Ω
	Mounting Method	U bolt
	Cable	Ultra Low loss cable 4 meters (LMR 600 equivalent)
	Connector	Both SMA male and N male supported
	Dimension	442* 220*64mm
Environmental	Operating Temperature	-40℃~+85℃
	Vibration	10 to 55Hz with 1.5mm amplitude 2hours
	Environmentally Friendly	ROHS Compliant

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Product Configuration in Details







The AN_Master_005 comes with two boxes:

- **Box One: AN_Master_005 with 10cm cable and N male connector**
- **Box Two: One unit of Ultra low loss 0.6 inch cable (LMR 600 equivalent) with N female to N male connector**
  One Unit of Interface cable 10cm N female to SMA male

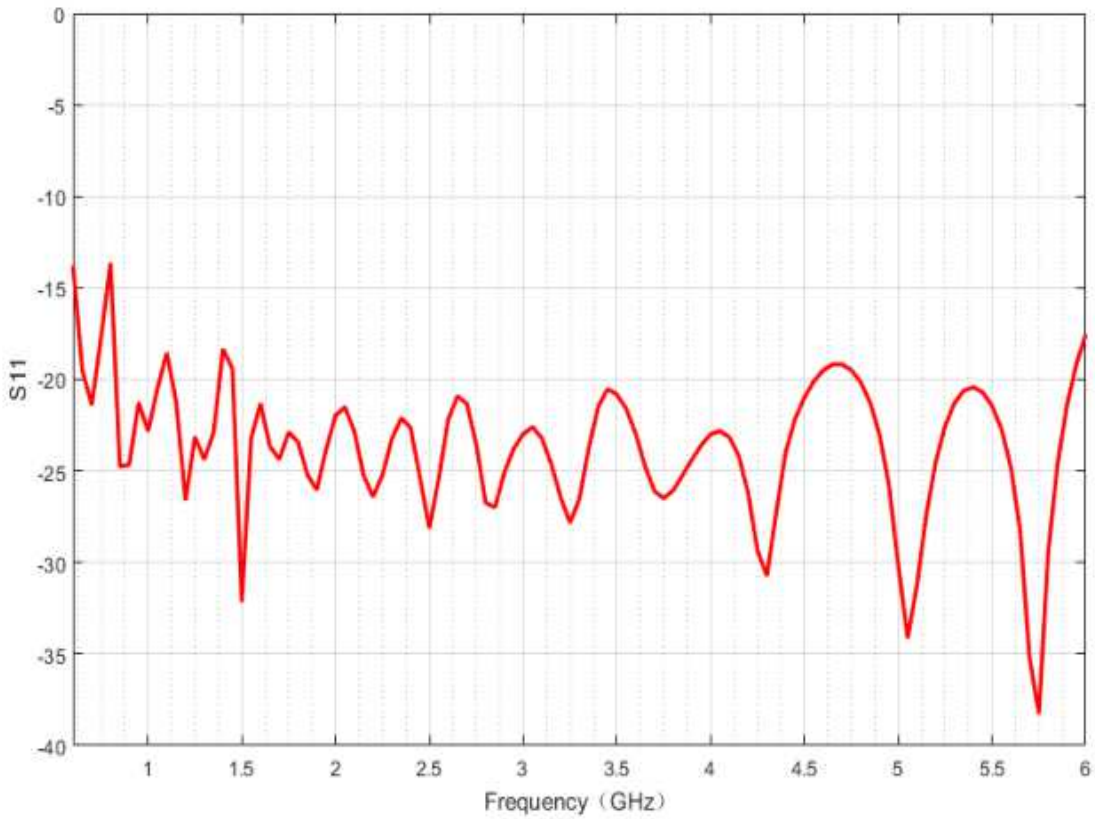
No need to worry about the high cable loss above 5GHz!

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Simulation Results

S11

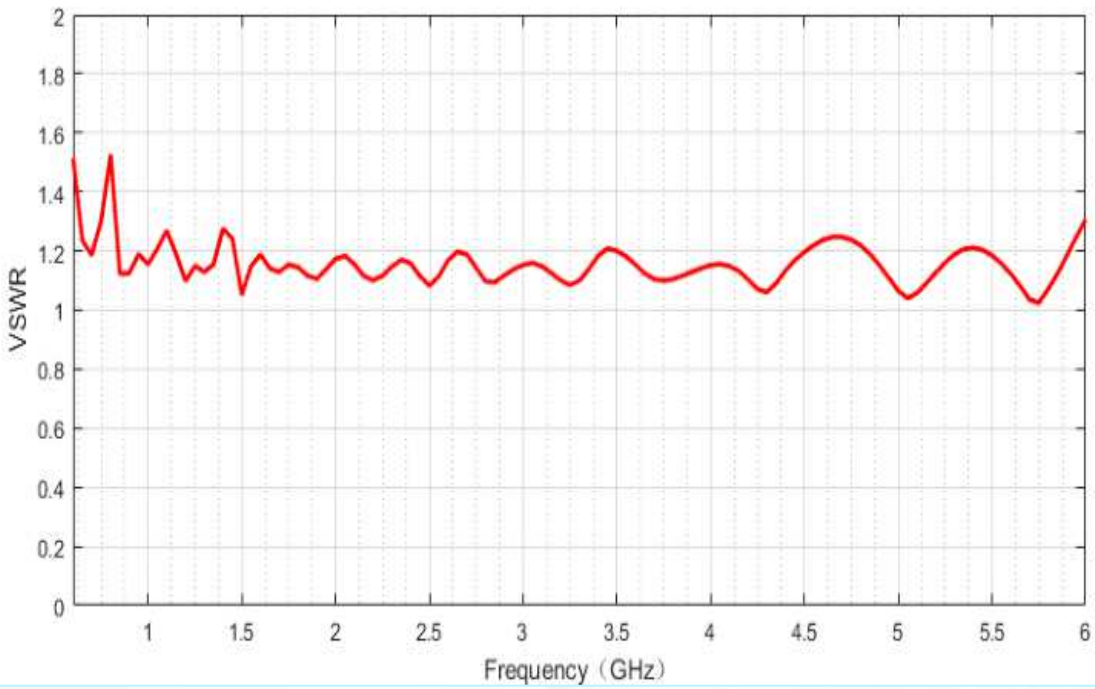


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Maswell 5G High Gain Ultra Wideband Log Periodic Antenna

Simulation Results

VSWR

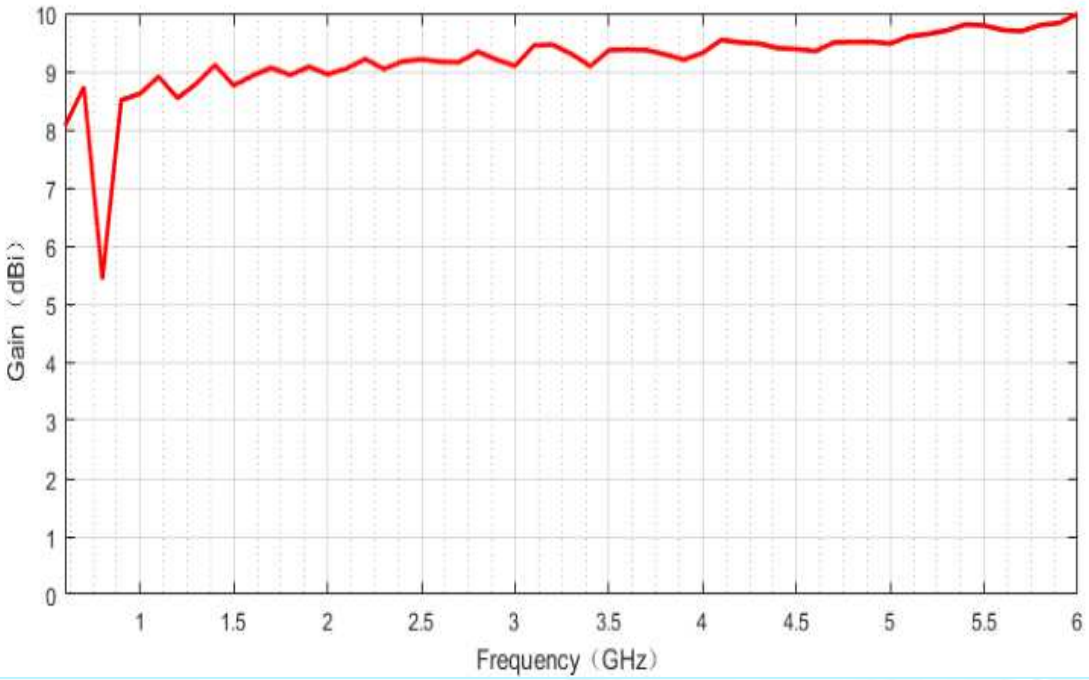


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Maswell 5G High Gain Ultra Wideband Log Periodic Antenna

Simulation Results

Gain

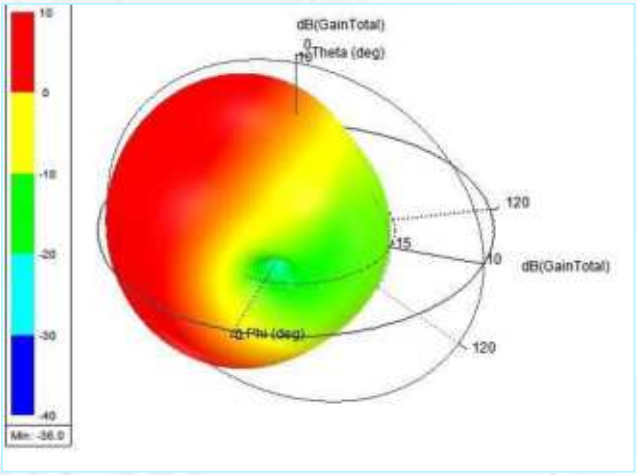


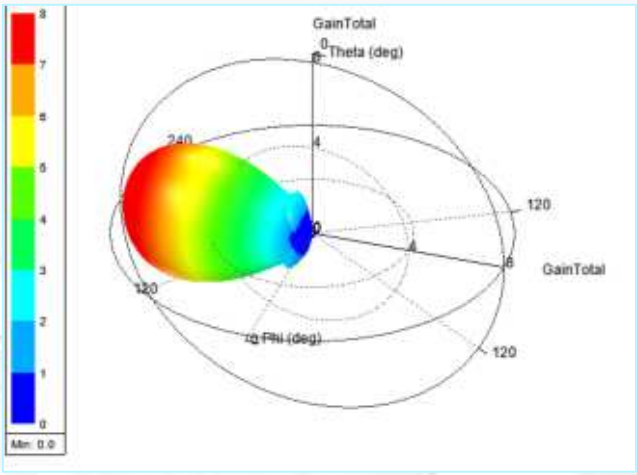
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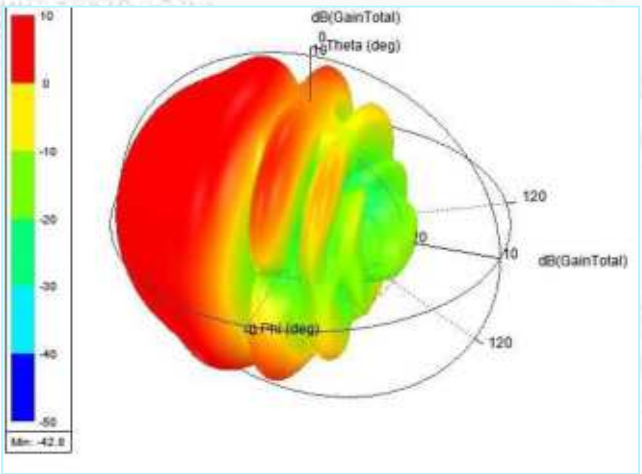
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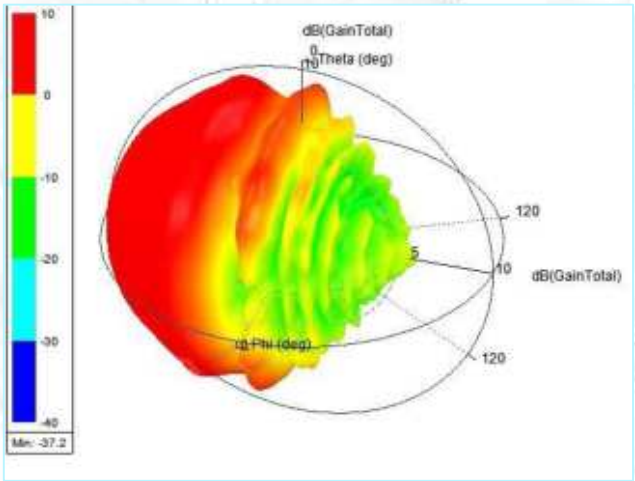
Simulation Results

Radiation Patterns







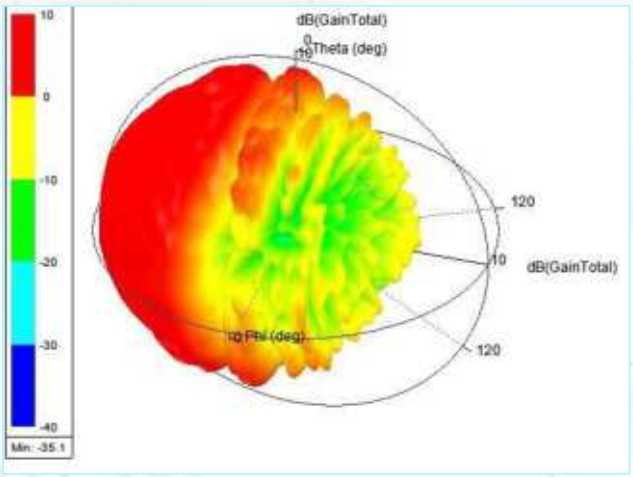


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Simulation Results

Radiation Patterns

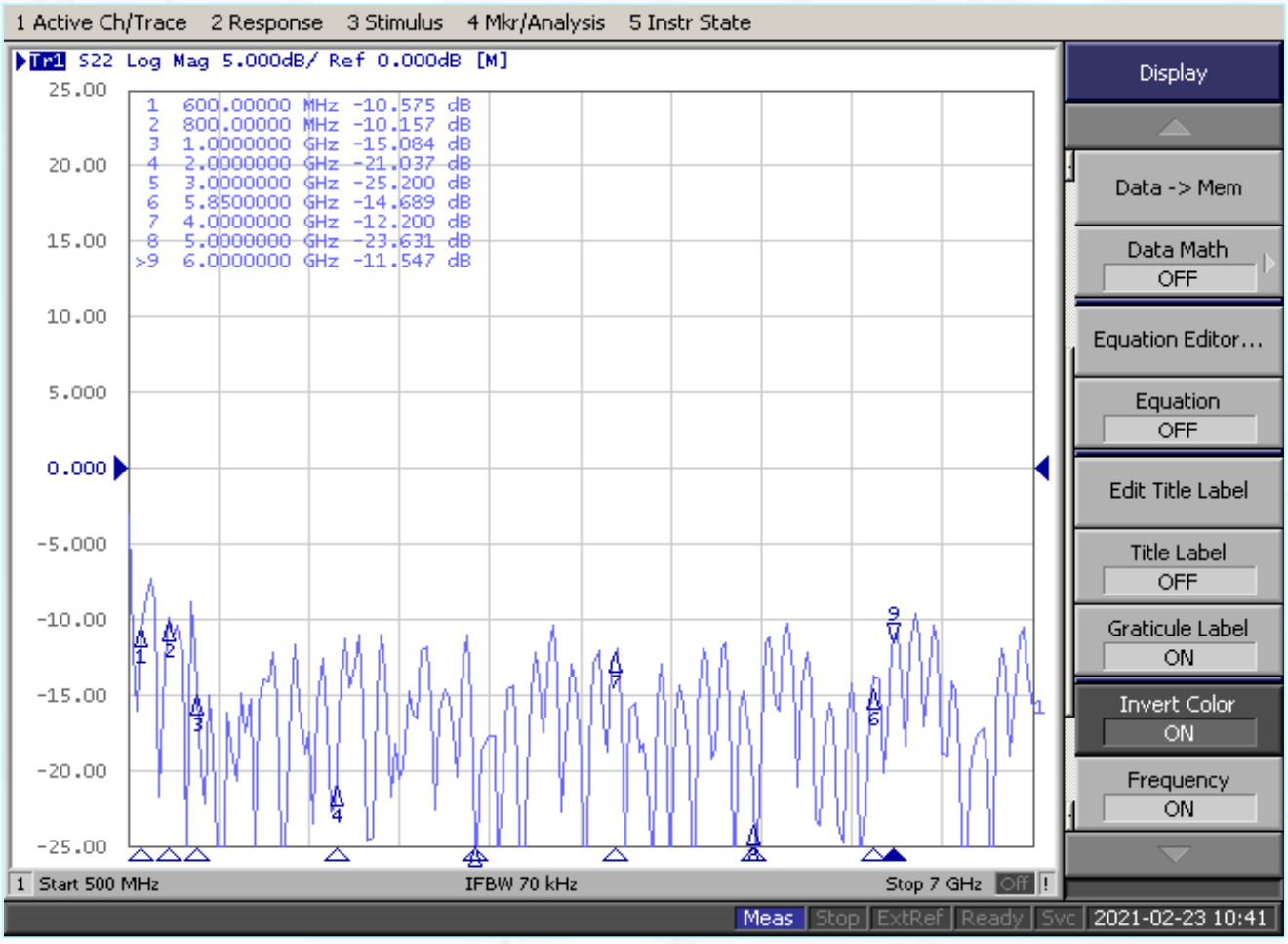


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Measured Results

Measured S11 Result

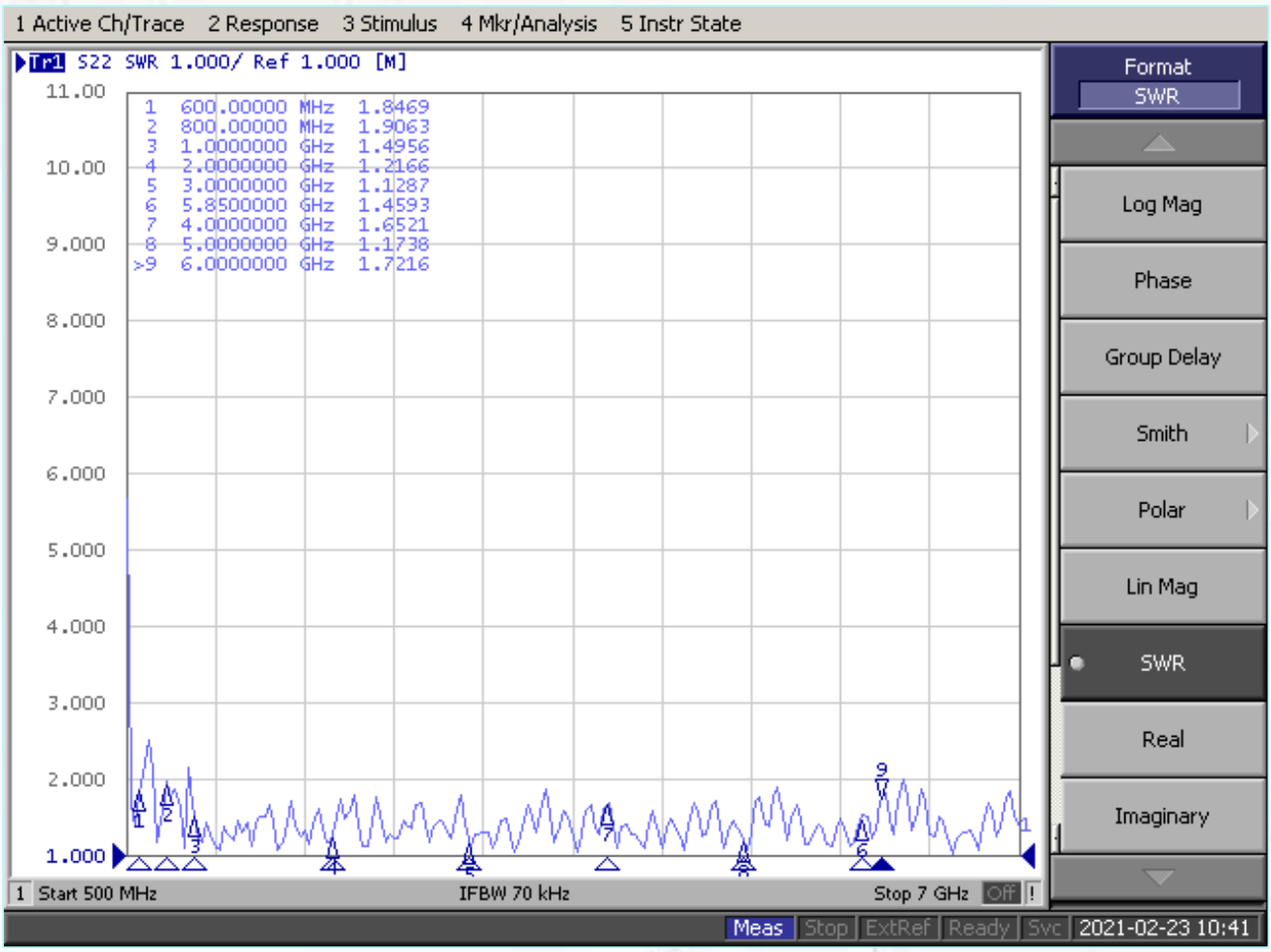


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Measured Results

Measured VSWR

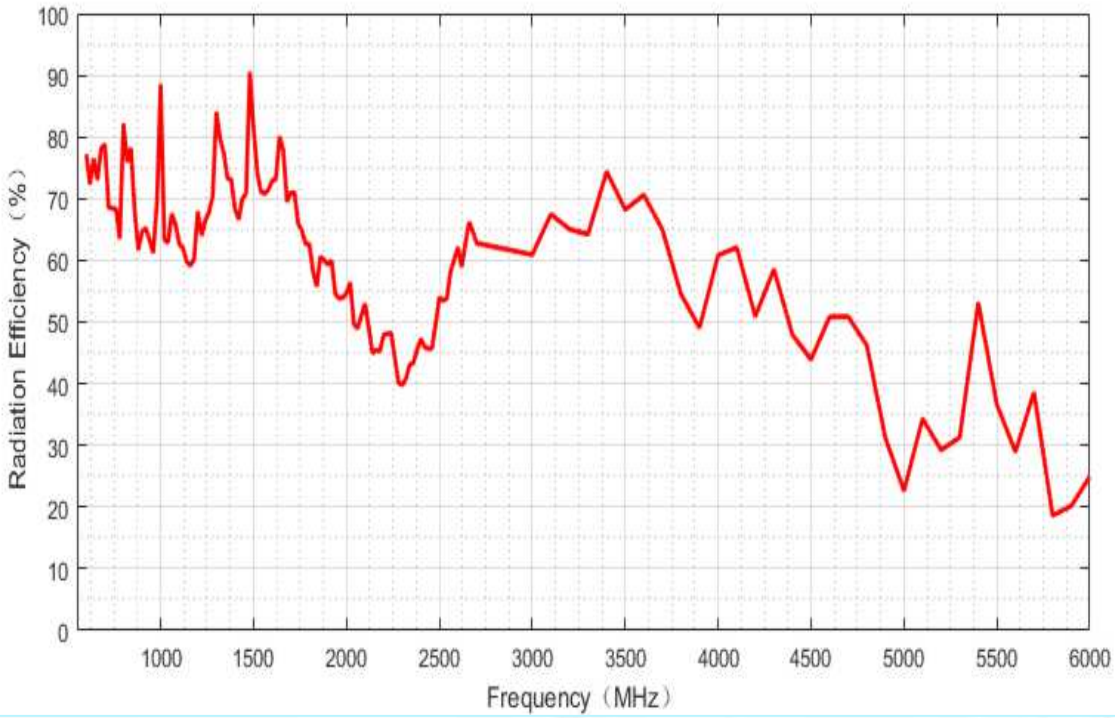


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Maswell 5G High Gain Ultra Wideband Log Periodic Antenna

Measured Results

Measured Radiation efficiency

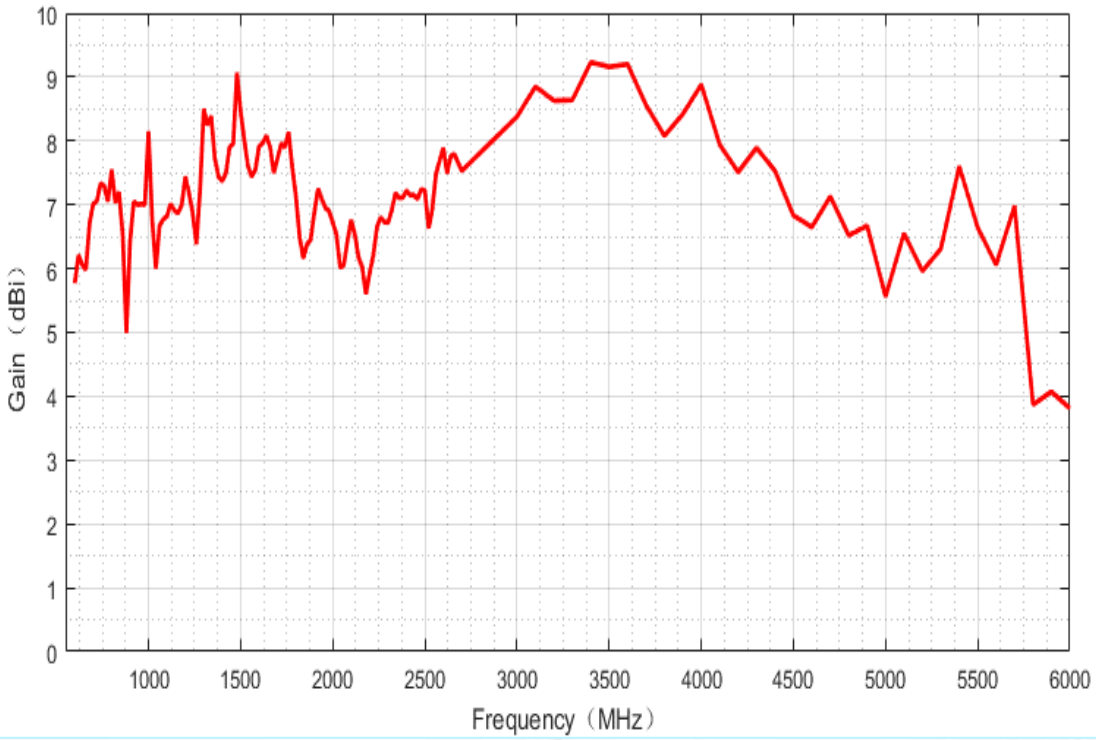


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Maswell 5G High Gain Ultra Wideband Log Periodic Antenna

Measured Results

Measured Gain Result



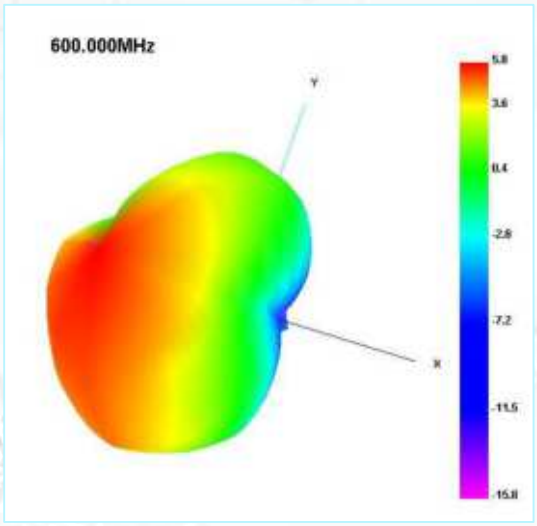
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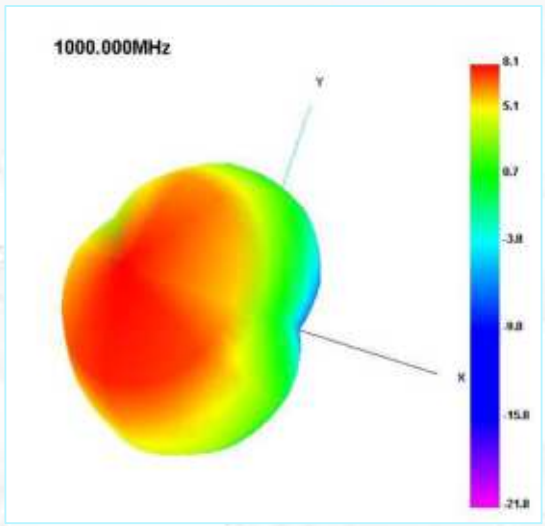
Measured Results

Measured Radiation Patterns

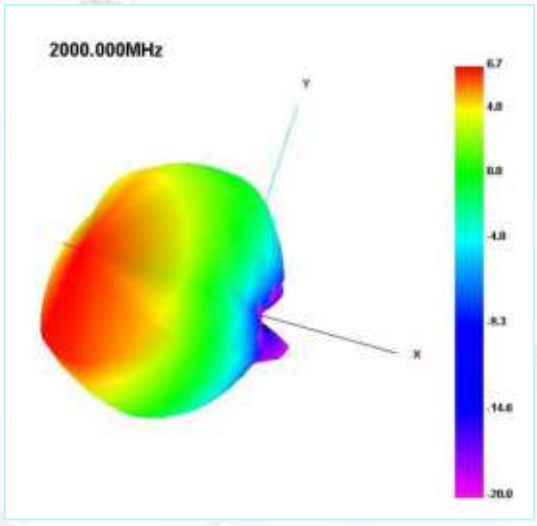
600MHz Radiation Pattern



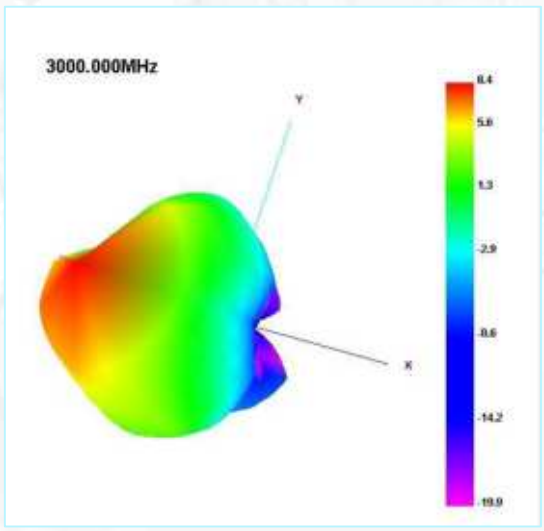
1000MHz Radiation Pattern



2000MHz Radiation Pattern



3000MHz Radiation Pattern



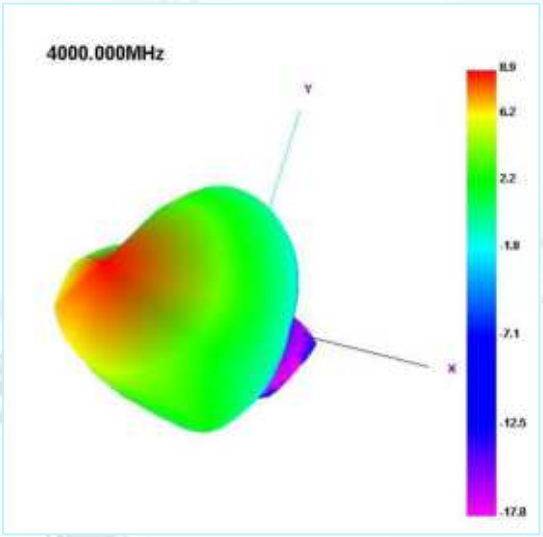
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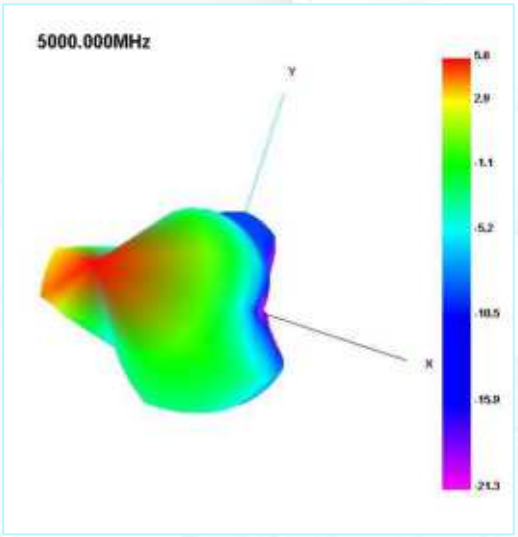
Measured Results

Measured Radiation Patterns

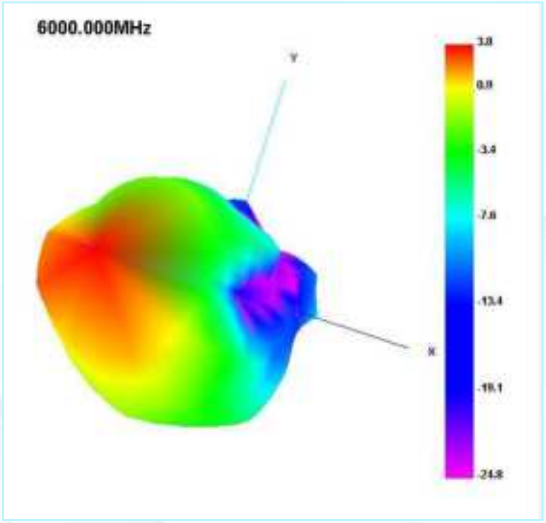
4000MHz Radiation Pattern



5000MHz Radiation Pattern



6000MHz Radiation Pattern



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Maswell 5G High Gain Ultra Wideband Log Periodic Antenna

Measured Results
(Gain and Radiation Efficiency under 30cm lead)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
600	27.4	-5.62	1.65	-0.5
700	45.45	-3.42	4.5	2.35
800	74.44	-1.28	6.56	4.41
900	63.8	-1.95	6.66	4.51
1000	78.78	-1.04	7.95	5.8
1100	60.26	-2.2	4.98	2.83
1200	66.14	-1.8	6.85	4.7
1300	72.01	-1.43	6.8	4.65
1400	67.41	-1.71	6.58	4.43
1500	65.77	-1.82	7.21	5.06
1600	50.65	-2.95	6.36	4.21
1700	48.14	-3.18	5.87	3.72
1800	56.78	-2.46	6.32	4.17
1900	55.53	-2.55	6.68	4.53
2000	55.45	-2.56	6.93	4.78
2100	57.09	-2.43	6.05	3.9
2200	53.17	-2.74	7.32	5.17
2300	52.92	-2.76	6.21	4.06
2400	62.77	-2.02	7.72	5.57
2500	74.42	-1.28	8.95	6.8
2600	69.29	-1.59	8.29	6.14
2700	71.08	-1.48	8.76	6.61
2800	69.41	-1.59	8.53	6.38
2900	65.89	-1.81	8.91	6.76
3000	69.63	-1.57	8.38	6.23
3100	63.98	-1.94	9.18	7.03
3200	58.62	-2.32	8.76	6.61

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Measured Results
(Gain and Radiation Efficiency under 30cm lead)

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)
3300	63.98	-1.94	9.26	7.11
3400	68.52	-1.64	7.92	5.77
3500	59.42	-2.26	7.19	5.04
3600	57.43	-2.41	8.39	6.24
3700	55.96	-2.52	8.02	5.87
3800	52.9	-2.77	6.88	4.73
3900	62.28	-2.06	6.83	4.68
4000	67.03	-1.74	7.81	5.66
4100	62.16	-2.06	7.84	5.69
4200	59.78	-2.23	7.92	5.77
4300	62.96	-2.01	8.28	6.13
4400	57.49	-2.4	7.45	5.3
4500	53.71	-2.7	6.17	4.02
4600	42.22	-3.75	6.65	4.5
4700	40.84	-3.89	6.92	4.77
4800	42.91	-3.67	7.03	4.88
4900	42.16	-3.75	6.97	4.82
5000	39.71	-4.01	6.28	4.13
5100	51.49	-2.88	5.86	3.71
5200	47.3	-3.25	4.9	2.75
5300	40.94	-3.88	5.11	2.96
5400	53.72	-2.7	6.99	4.84
5500	53.54	-2.71	6.99	4.84
5600	47.31	-3.25	6.83	4.68
5700	50.66	-2.95	7.92	5.77
5800	48.83	-3.11	6.66	4.51
5900	41.86	-3.78	5.37	3.22
6000	42.75	-3.69	5.07	2.92

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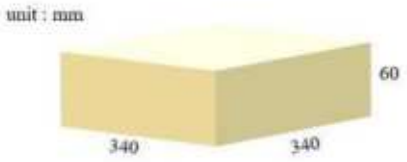
Maswell 5G High Gain Ultra Wideband Log Periodic Antenna

Package

AN_Master_005

Package with two cartons:

1pc Low Loss Coaxial Cable per Carton
Cable Dimension : 340*60*340mm
Cable Gross Weight : 1150g
Cable Net Weight : 870g



1pc LPDA Antenna High Gain per Carton
Antenna Dimension : 230*85*590mm
Antenna Gross Weight : 1230g
Antenna Net Weight : 900g



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