

2.4&5.8G 30x8 L50 CM1 Antenna

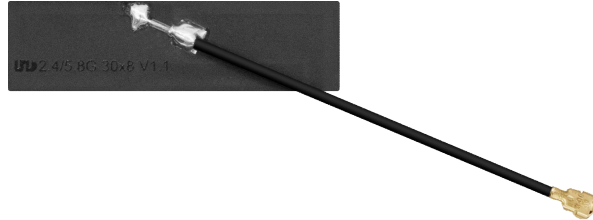
FEATURES & BENEFITS



- Welding RG 1.13 cable, Ipex connector, 3M sticker for easy installation.
- Mounting to: non-conductive surface
- Installation type: adhesive

APPLICATIONS

- IoT Devices
- Smart Cities
- Smart Agriculture
- Consumer Tracking
- Smart Metering
- Smart Agriculture



ORDER INFORMATION

Product Name	2.4&5.8G 30x8 L50 CM1 Antenna
Part Number	M01-0202880R0A
Dimensions	30.0 x 8.0mm
Weight	0.4 g
Color	Black
Mounting	adhesive
Antenna Cable	Default IPEX 1 RF 1.13 black coaxial cable (Ø 1.13 x 50 mm) , customizable.

REFERENCE GUIDE

Technical Features (MHz)	2400-2500	5100-5900
Max VSWR	3.0:1	
Max Efficiency	62.15%	
Peak Gain	2.07dBi	
Radiation Pattern	Omnidirectional	
Polarization	Linear	
Input Impedance	50 Ω	
Operating Temperature	-40°C to +85°C	
Storage Temperature	-40°C to +85°C	
Relative Humidity	10 to 70%	
Material Substance Compliance	ROHS And REACH Compliant	
Dimensions (L x W x H)	30.0 x 8.0mm	
All test data were obtained from testing conducted on 1.4mm thick polycarbonate (PC) plastic material; with an 50-mm-long RF 1.13 cable.Application data might vary.		

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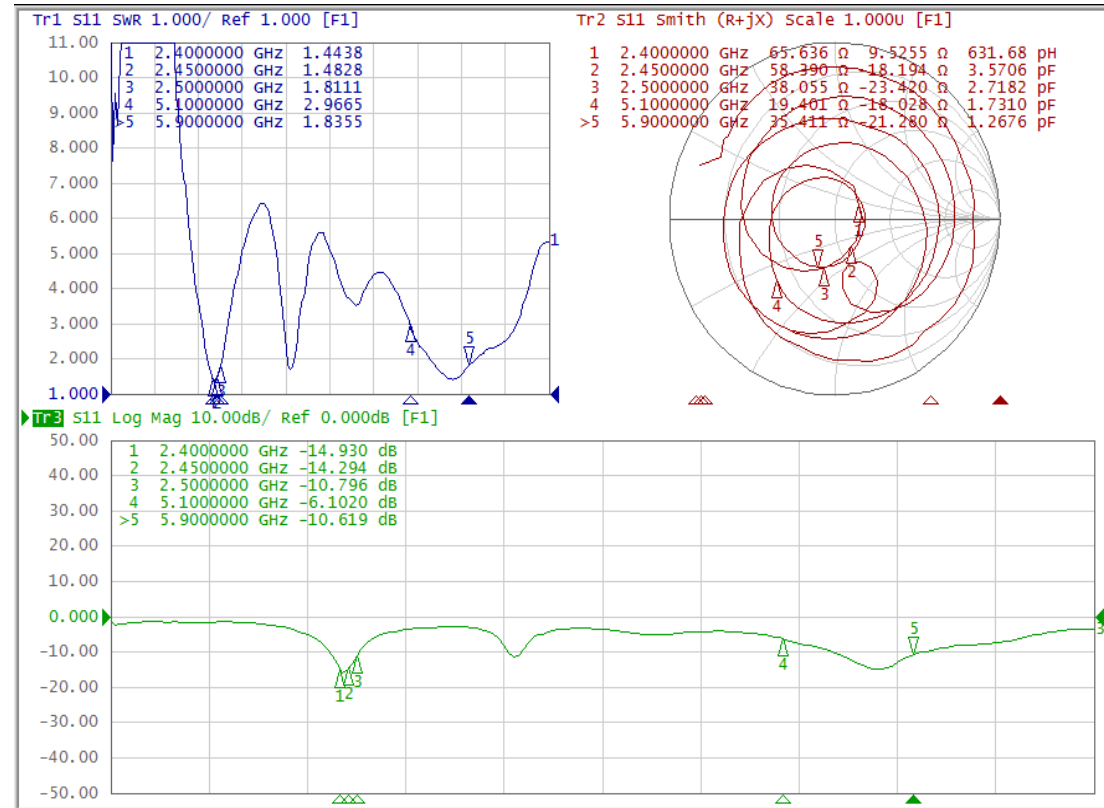
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ELECTRICAL PERFORMANCE

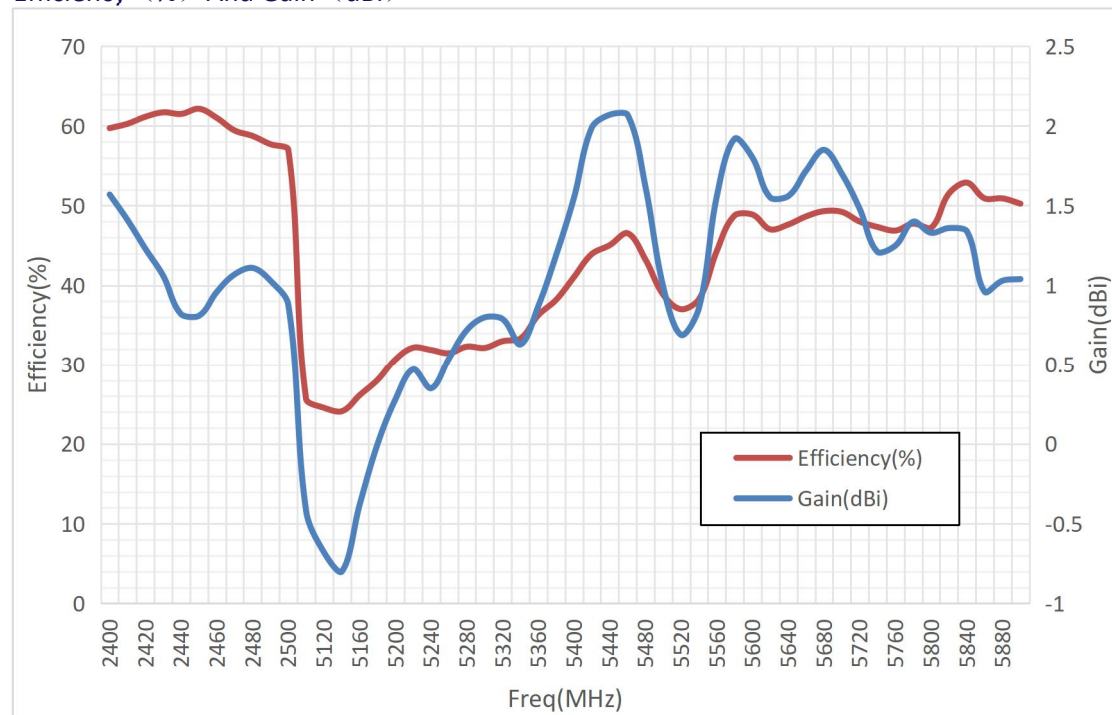
Note

All data displayed in the "ELECTRICAL PERFORMANCE" section were measured using a 50mm-long RF 1.13 cable mounted on 1.4mm thick polycarbonate (PC) plastic material.

Return Loss

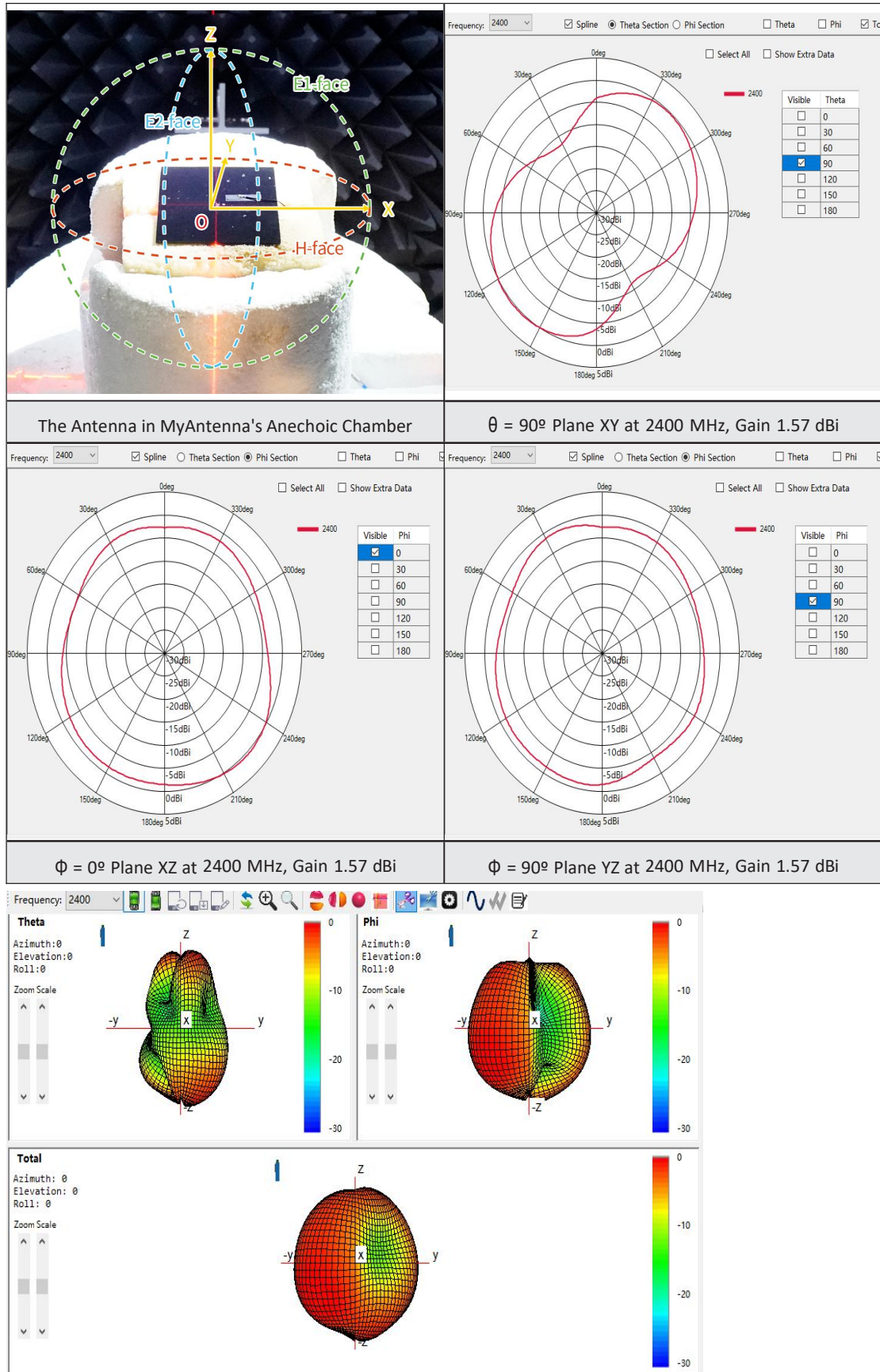


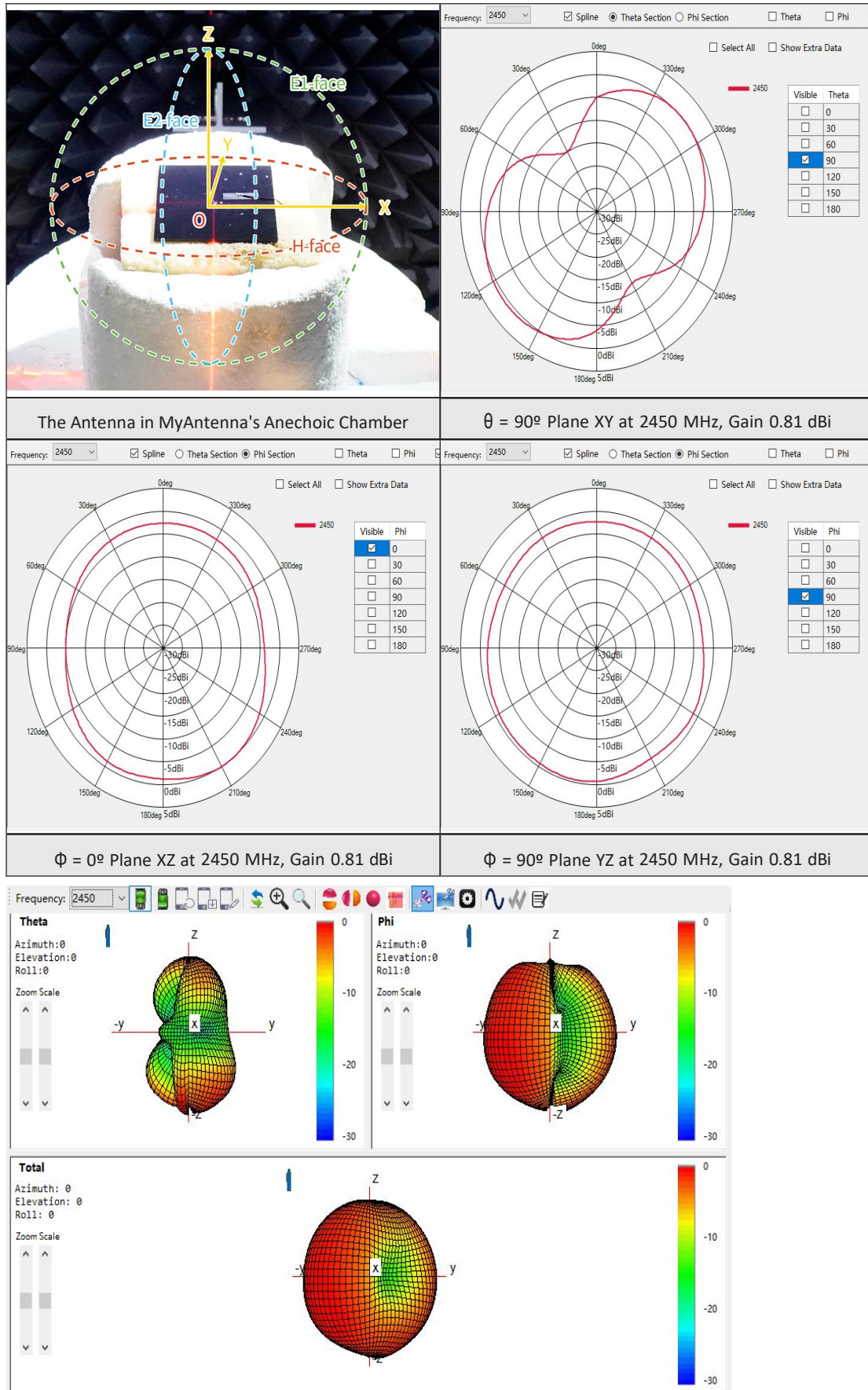
Efficiency (%) And Gain (dBi)

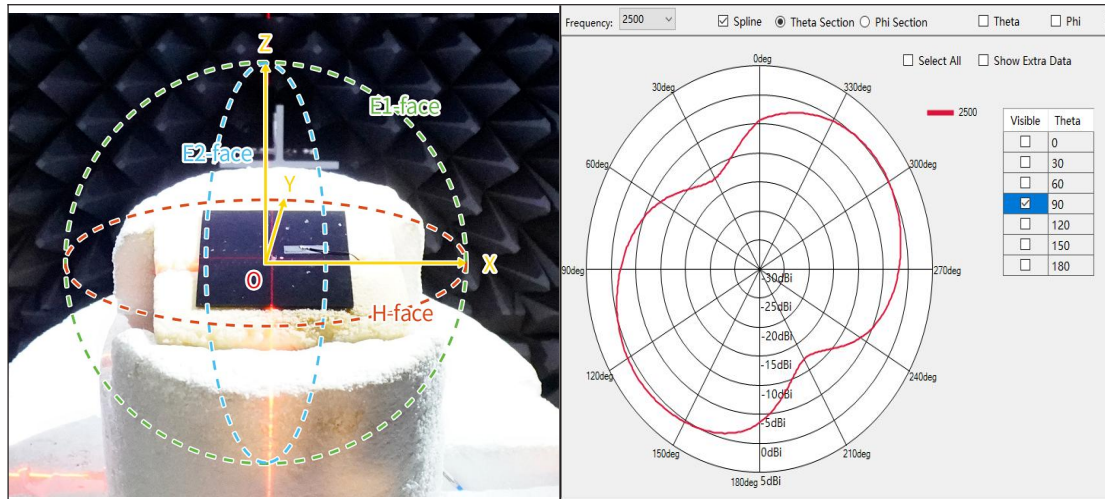


Freq(MHz)	Gain(dBi)	Efficiency(%)	Freq(MHz)	Gain(dBi)	Efficiency(%)
2400	1.57	59.72	5400	1.55	41.06
2410	1.41	60.27	5420	1.99	43.95
2420	1.23	61.15	5440	2.07	45.05
2430	1.06	61.70	5460	2.07	46.55
2440	0.82	61.50	5480	1.62	43.26
2450	0.81	62.15	5500	0.99	38.83
2460	0.96	61.00	5520	0.69	37.02
2470	1.07	59.42	5540	0.86	38.28
2480	1.11	58.74	5560	1.56	44.34
2490	1.03	57.71	5580	1.92	48.79
2500	0.88	57.03	5600	1.80	48.88
5100	-0.42	25.63	5620	1.55	47.03
5120	-0.68	24.54	5640	1.56	47.64
5140	-0.80	24.11	5660	1.72	48.66
5160	-0.38	26.13	5680	1.85	49.32
5180	0.00	28.06	5700	1.70	49.22
5200	0.28	30.68	5720	1.48	48.01
5220	0.47	32.19	5740	1.21	47.33
5240	0.35	31.89	5760	1.25	46.88
5260	0.54	31.49	5780	1.40	47.75
5280	0.72	32.32	5800	1.33	47.23
5300	0.80	32.16	5820	1.36	51.53
5320	0.79	33.00	5840	1.34	52.89
5340	0.63	33.34	5860	0.96	50.91
5360	0.87	36.28	5880	1.03	50.91
5380	1.19	38.20	5900	1.04	50.25

RADIATION PATTERNS

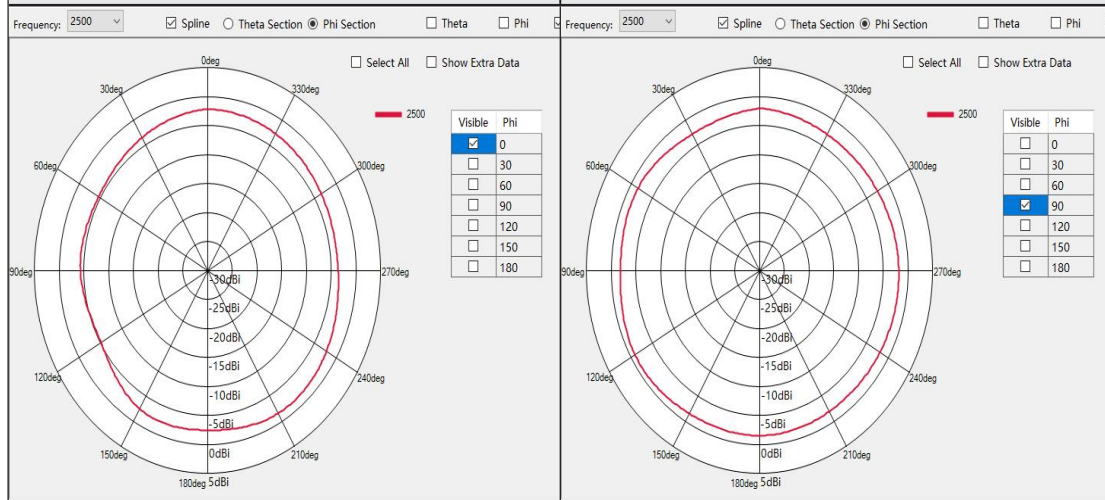






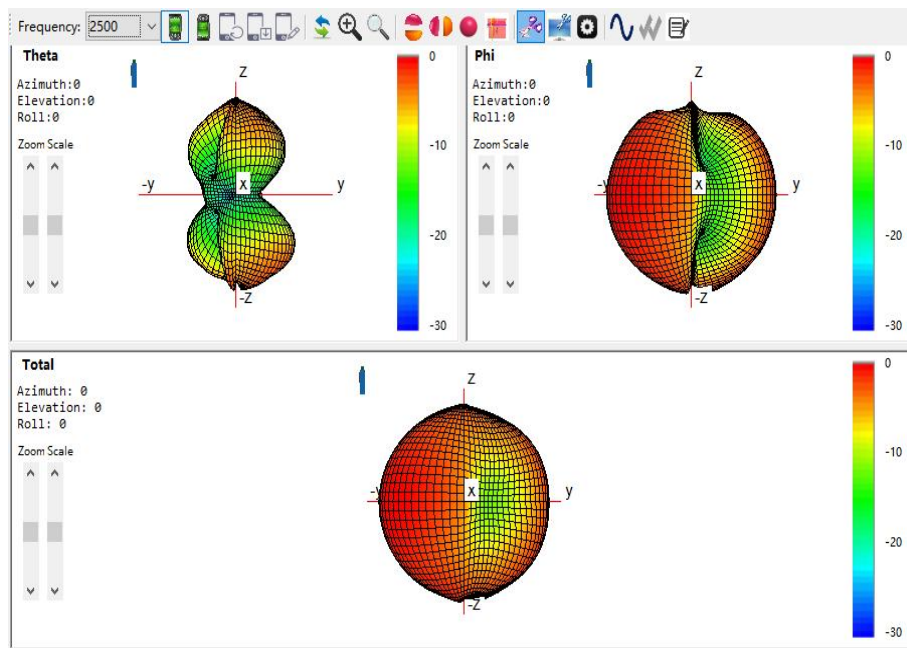
The Antenna in MyAntenna's Anechoic Chamber

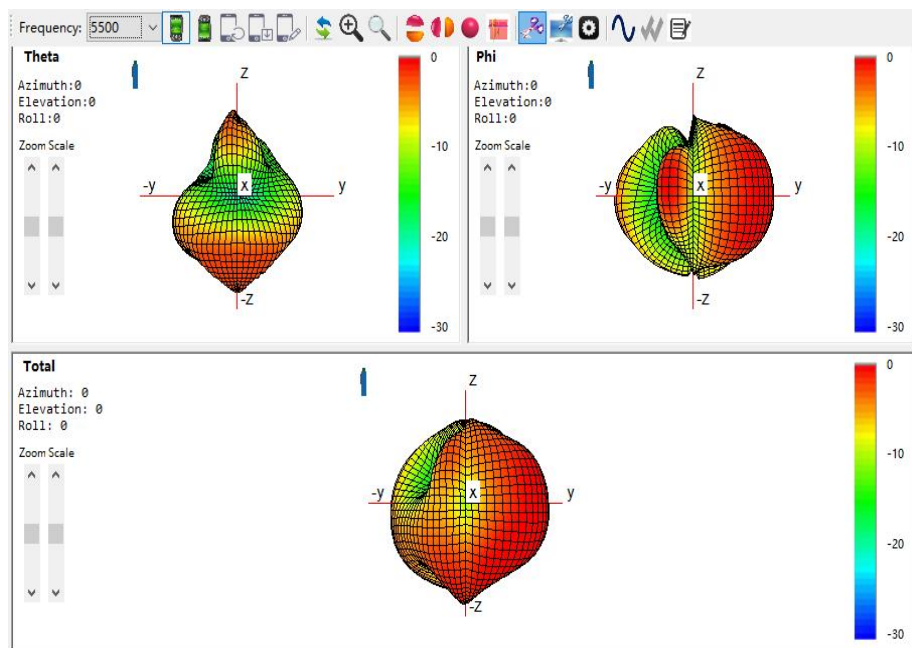
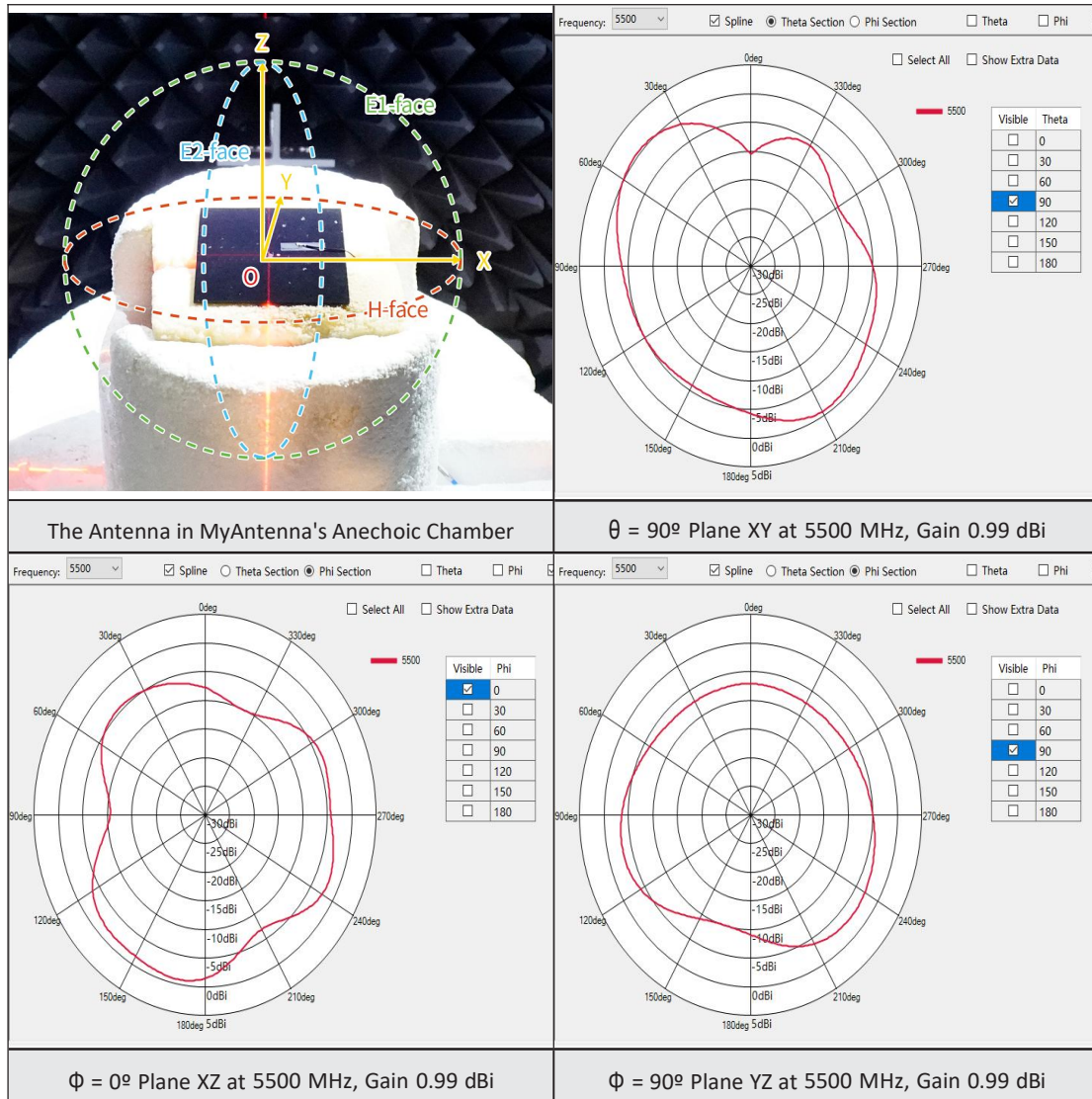
$\theta = 90^\circ$ Plane XY at 2500 MHz, Gain 0.88 dBi



$\phi = 0^\circ$ Plane XZ at 2500 MHz, Gain 0.88 dBi

$\phi = 90^\circ$ Plane YZ at 2500 MHz, Gain 0.88 dBi





HOUSING CONFIGURATIONS

