

4G 109.0x8.6 L150 CM1 Antenna

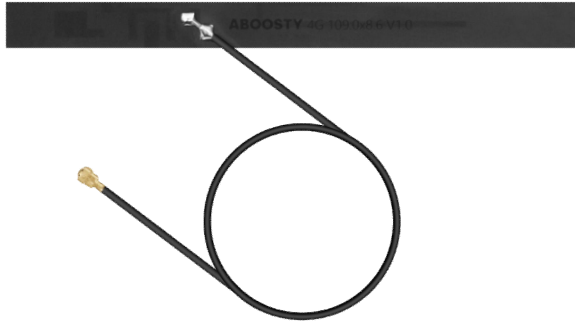
FEATURES & BENEFITS



- 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	4G 109.0x8.6 L150 CM1 Antenna
Part Number	AICF011
Dimensions	109.0 x 8.6mm
Weight	0.8 g
Color	Black
Mounting	adhesive
Antenna Cable	Default IPEX 1 RF 1.13 black coaxial cable (Ø 1.13 x 150 mm) , customizable.

REFERENCE GUIDE

Technical Features (MHz)	824-960	1710-2690
Max VSWR	2.9:1	3.0:1
Max Efficiency	82.4%	
Peak Gain	3.85dBi	
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 Compliant	
Dimensions (L x W x H)	109.0 x 8.6mm	
All test data were obtained from testing conducted on 1.4mm thick polycarbonate (PC) plastic material; with an 150-mm-long RF 1.13 cable.Application data might vary.		

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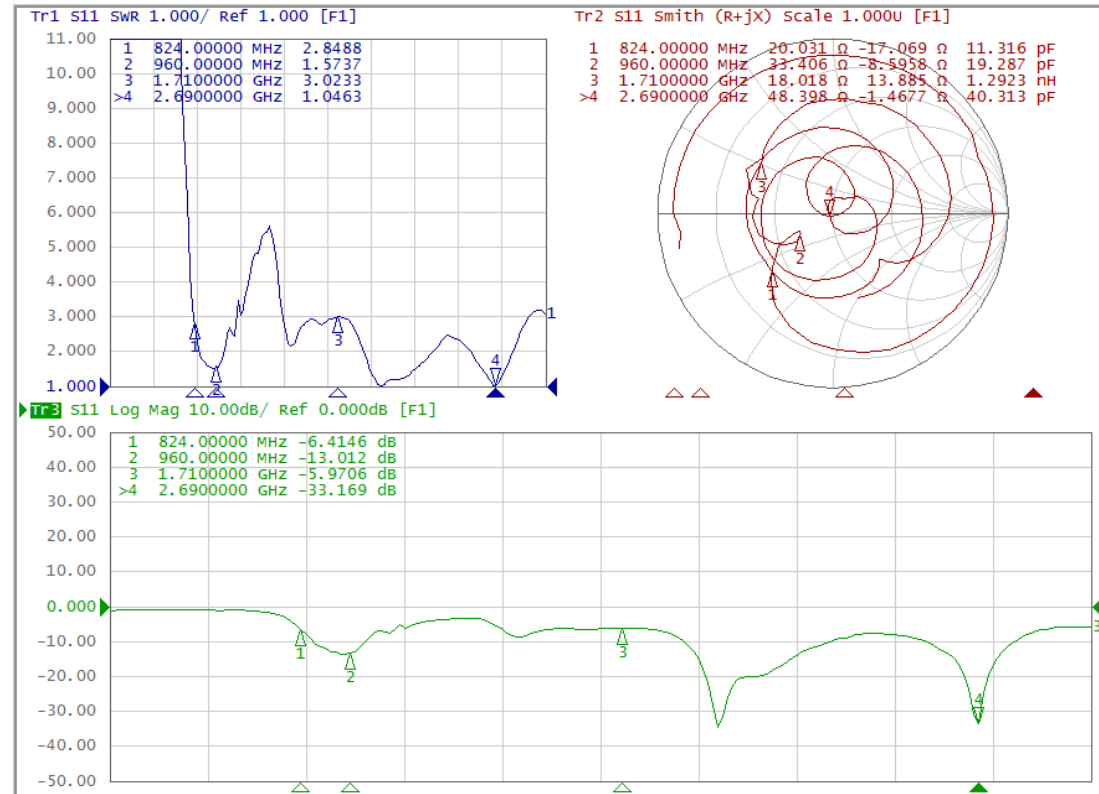
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ELECTRICAL PERFORMANCE

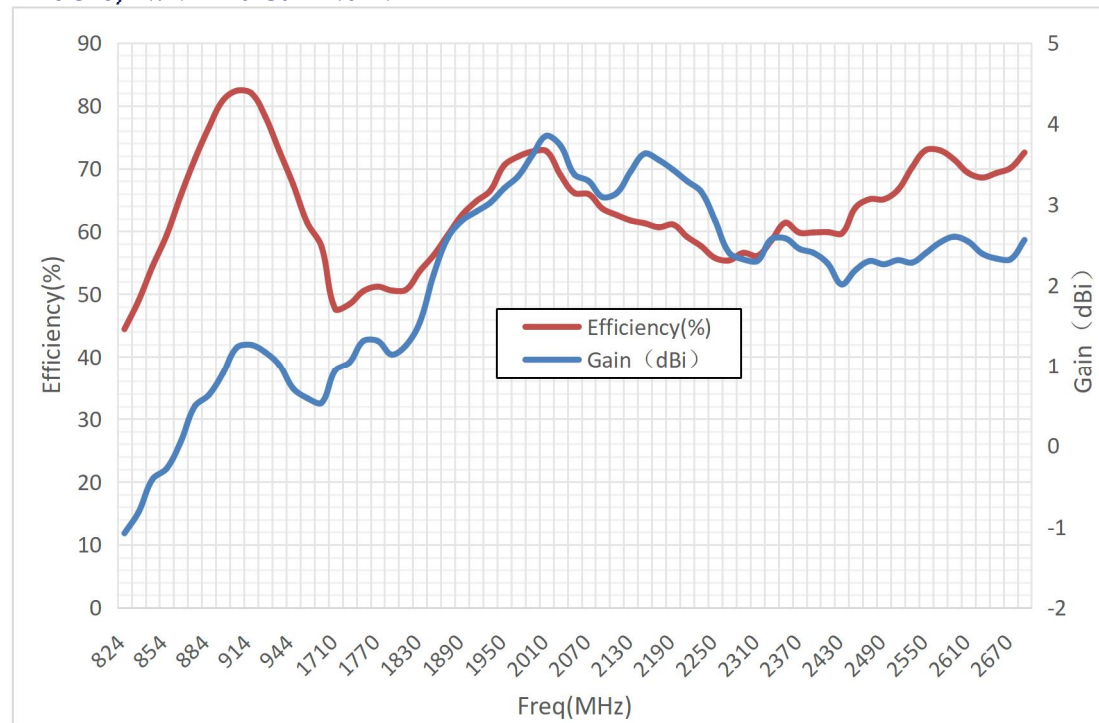
Note

All data displayed in the "ELECTRICAL PERFORMANCE" section were measured using a 150mm-long RF 1.13 cable mounted on 1.4mm thick polycarbonate (PC) plastic material.

Return Loss

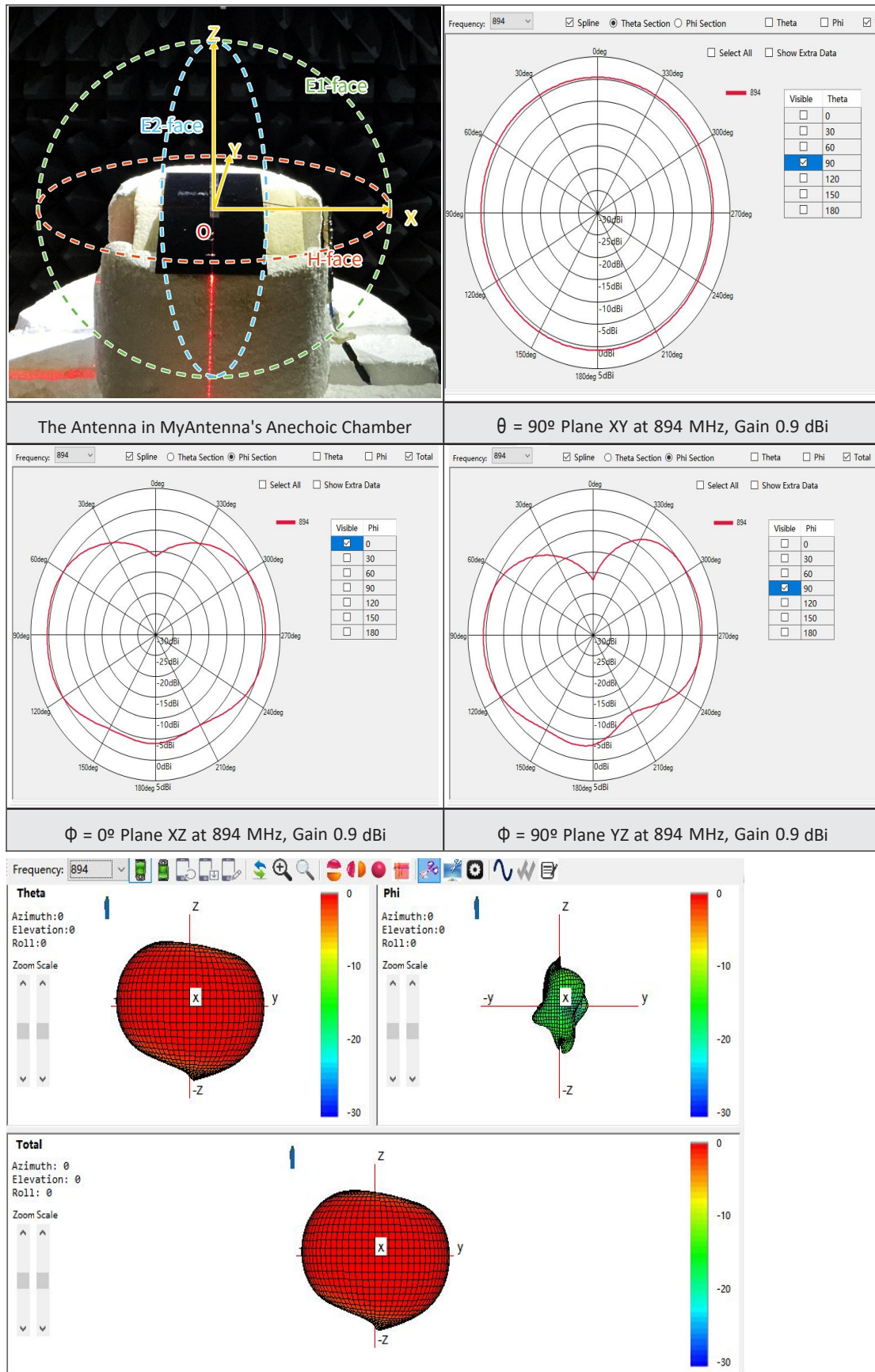


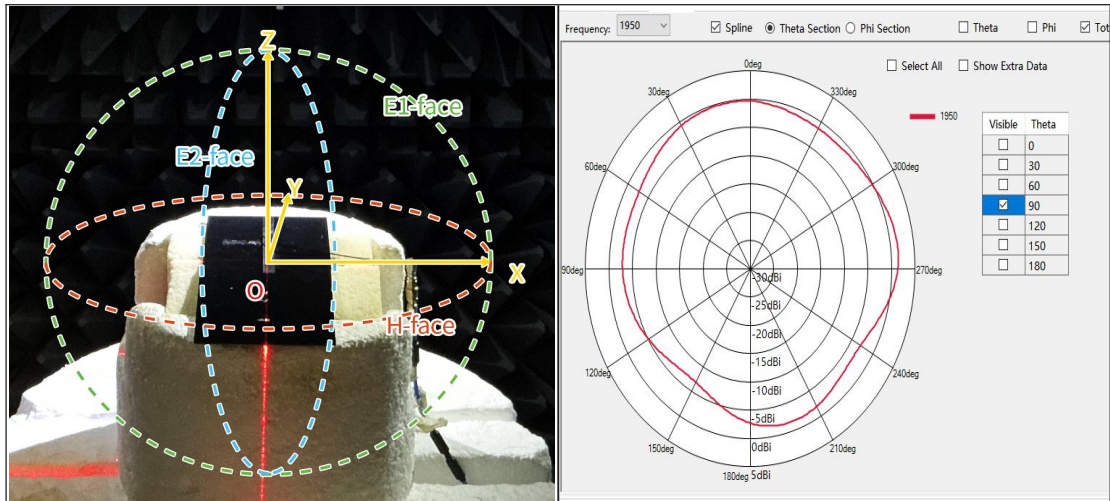
Efficiency (%) And Gain (dBi)



Freq(MHz)	Gain (dBi)	Efficiency(%)	Freq(MHz)	Gain (dBi)	Efficiency(%)	Freq(MHz)	Gain (dBi)	Efficiency(%)
824	-1.08	44.44	1850	2.14	56.25	2290	2.32	56.58
834	-0.82	48.94	1870	2.59	59.44	2310	2.30	56.09
844	-0.41	54.46	1890	2.80	62.61	2330	2.57	58.54
854	-0.28	59.40	1910	2.91	64.76	2350	2.58	61.37
864	0.05	65.70	1930	3.02	66.46	2370	2.45	59.79
874	0.49	71.47	1950	3.20	70.51	2390	2.40	59.83
884	0.63	76.54	1970	3.35	71.92	2410	2.27	59.88
894	0.90	80.85	1990	3.61	72.71	2430	2.01	59.65
904	1.23	82.40	2010	3.85	72.79	2450	2.19	63.83
914	1.26	82.04	2030	3.73	69.00	2470	2.30	65.13
924	1.17	78.33	2050	3.37	66.10	2490	2.26	65.10
934	1.01	72.86	2070	3.29	65.93	2510	2.31	66.61
944	0.71	67.45	2090	3.09	63.60	2530	2.28	70.16
954	0.59	61.36	2110	3.14	62.60	2550	2.40	72.96
960	0.53	57.67	2130	3.41	61.73	2570	2.53	72.89
1710	0.94	47.60	2150	3.63	61.28	2590	2.60	71.42
1730	1.04	48.42	2170	3.55	60.66	2610	2.54	69.30
1750	1.31	50.50	2190	3.43	61.10	2630	2.39	68.57
1770	1.31	51.20	2210	3.29	59.14	2650	2.33	69.29
1790	1.14	50.59	2230	3.16	57.66	2670	2.32	70.07
1810	1.25	50.68	2250	2.80	55.75	2690	2.56	72.55
1830	1.54	53.67	2270	2.40	55.38			

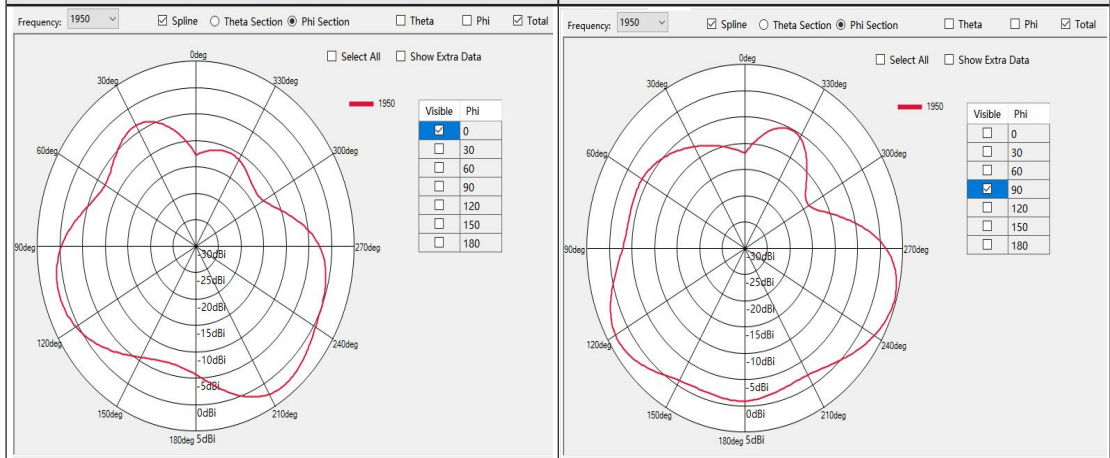
RADIATION PATTERNS





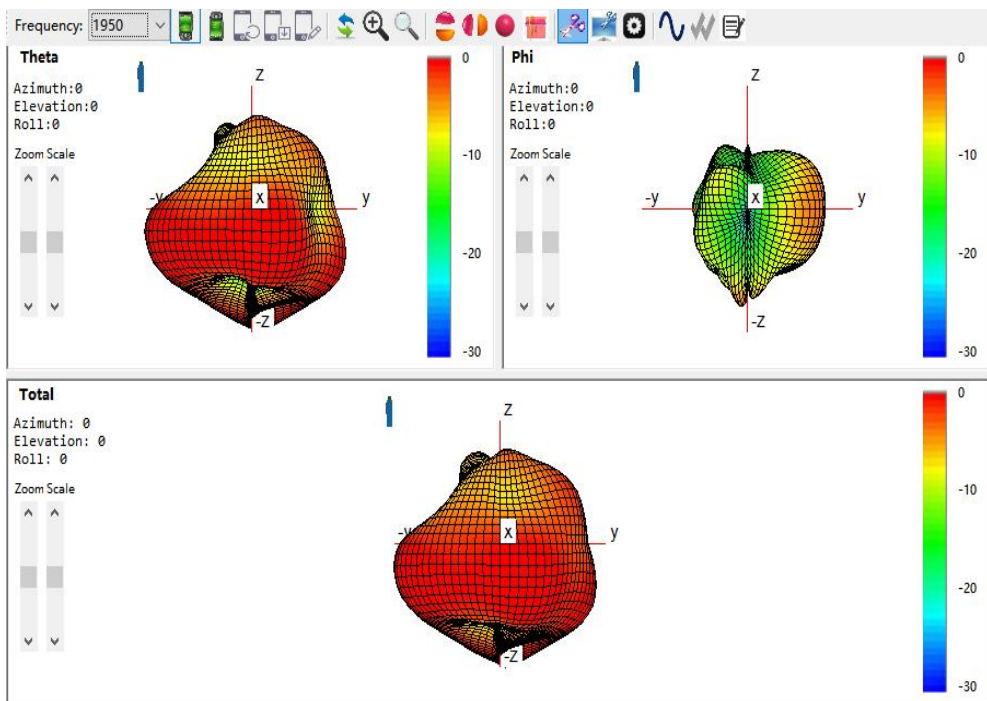
The Antenna in MyAntenna's Anechoic Chamber

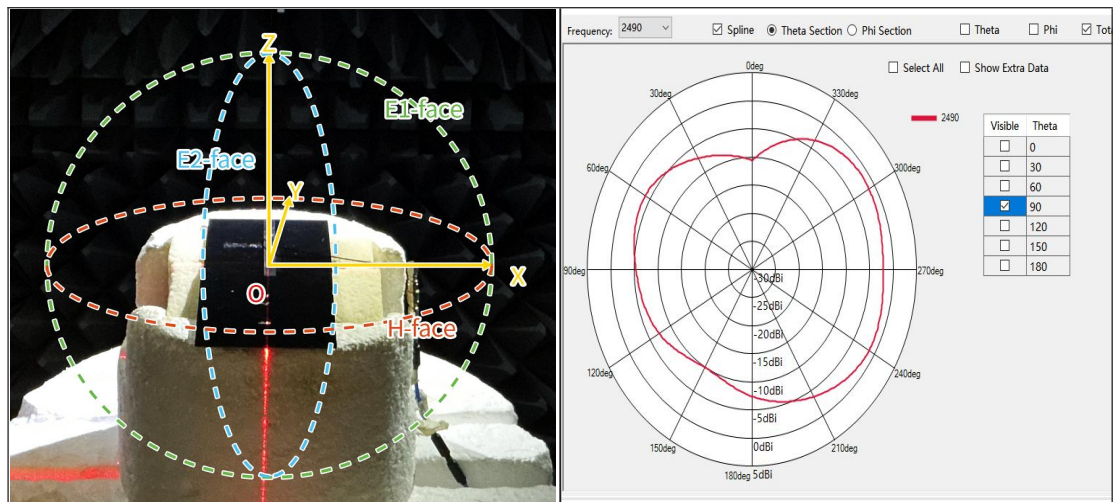
$\theta = 90^\circ$ Plane XY at 1950 MHz, Gain 3.2 dBi



$\phi = 0^\circ$ Plane XZ at 1950 MHz, Gain 3.2 dBi

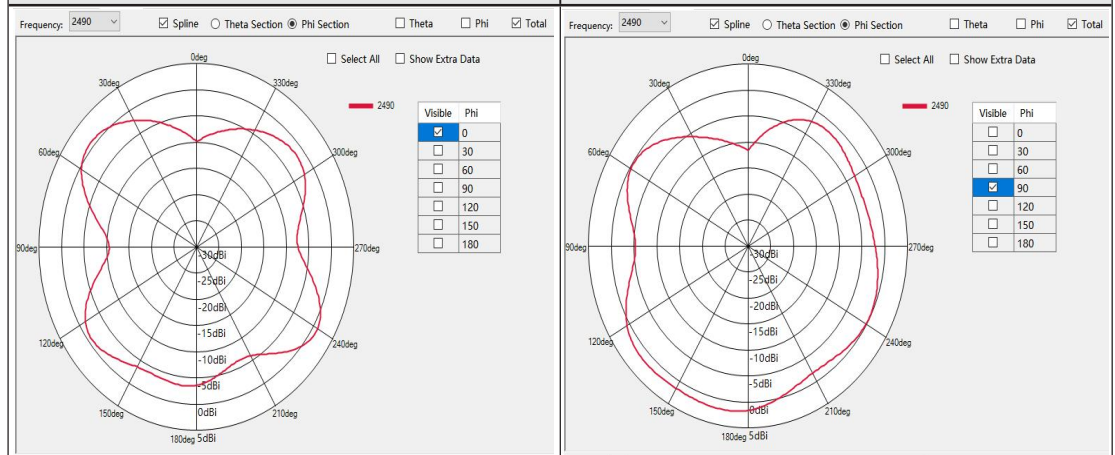
$\phi = 90^\circ$ Plane YZ at 1950 MHz, Gain 3.2 dBi





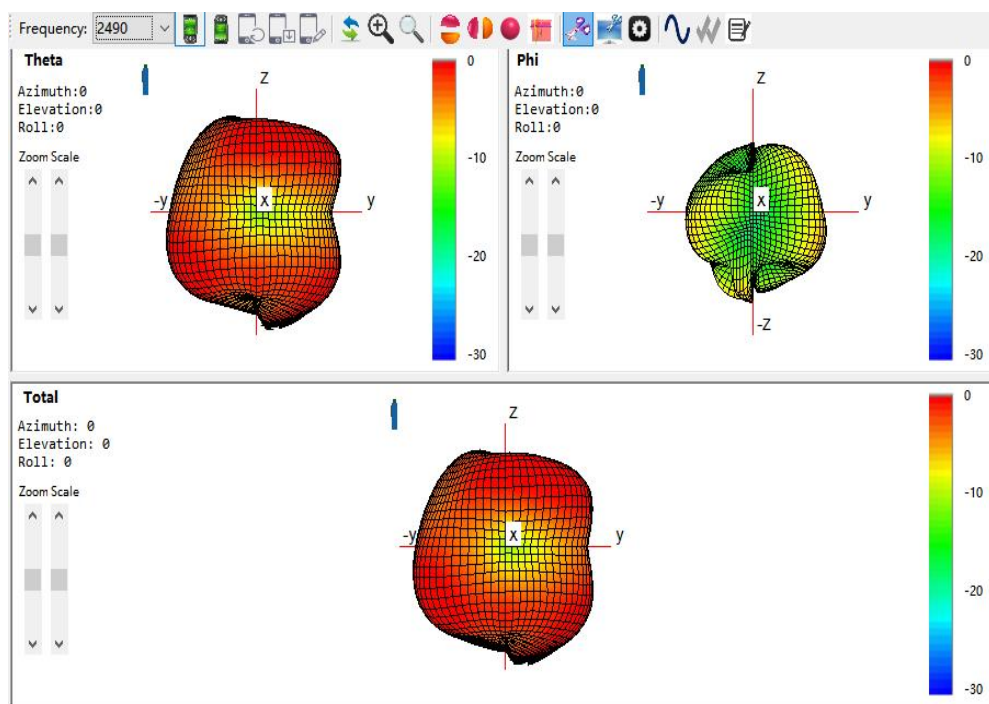
The Antenna in MyAntenna's Anechoic Chamber

$\theta = 90^\circ$ Plane XY at 2490 MHz, Gain 2.26 dBi



$\phi = 0^\circ$ Plane XZ at 2490 MHz, Gain 2.26 dBi

$\phi = 90^\circ$ Plane YZ at 2490 MHz, Gain 2.26 dBi



HOUSING CONFIGURATIONS

