

4G Omnidirectional Gooseneck Fiberglass Antenna (Ø18 × 400 mm)

FEATURES & BENEFITS



- Strong environmental adaptability: It performs well in harsh conditions like wind, sun exposure, rain, and salt spray corrosion, making it suitable for long-term outdoor use.
- Stable mechanical performance: The fiberglass radome ensures a robust antenna structure that can withstand certain degrees of mechanical stress
- Excellent electrical properties: The fiberglass material is highly transparent to RF signals, which helps maintain stable electrical performance
- The gooseneck design offers unparalleled installation flexibility. It can be easily bent and adjusted to fit various device enclosures and spatial constraints, ensuring optimal signal orientation
- Multiple RF connectors available (SMA, N-M, TNC)

APPLICATIONS

Various IoT applications, including,

- Smart valves
- Pressure/Level/Flow transmitters
- Temperature transmitters
- Water meters ect.



ORDER INFORMATION

Product Name	4G Omnidirectional Gooseneck Fiberglass Antenna
Part Number	M04-0105760R0A
Dimensions	Ø18 x 400mm
Weight	122 g
Color	Black
Mounting	Gooseneck flexible mount
Material	Fiberglass radome
Connector	SMA MALE (Customizable SMA /N/ TNC)

MyAntenna RF Technology Co., Ltd

ADD: No. RM 410, Country Garden Phoenix Wisdom Valley, No. 50 Tiezai Road, Baoan District, Shenzhen, P.R.China.

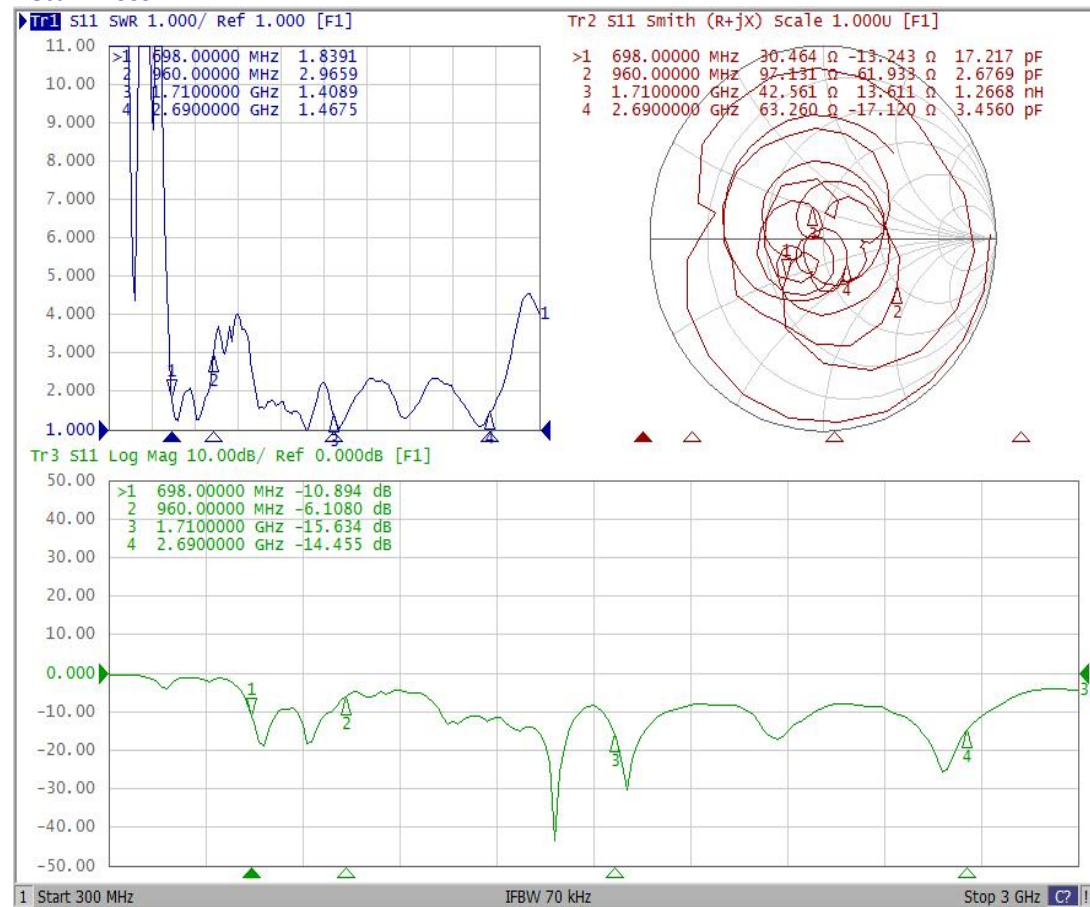
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REFERENCE GUIDE

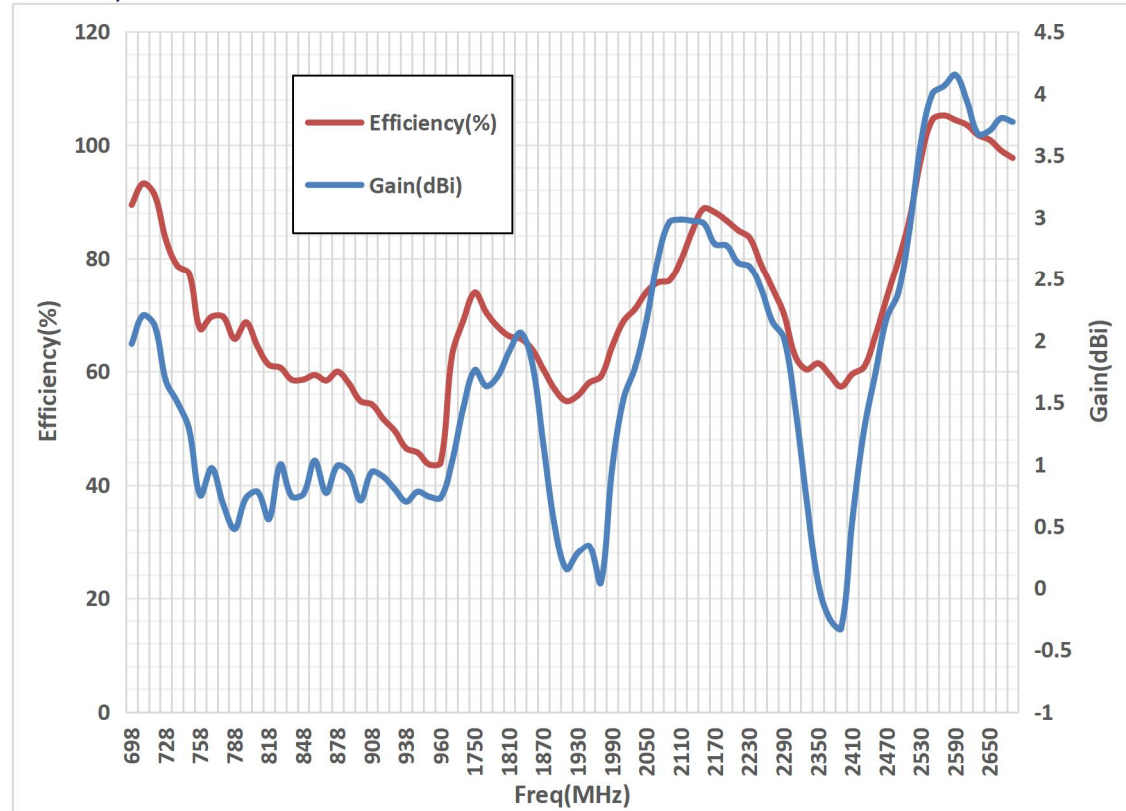
Technical Features (MHz)	698-960、1710-2690
Max VSWR	≤ 3.5
Max Efficiency	105.2%
Peak Gain	4.15dBi
Radiation Pattern	Omnidirectional
Polarization	Linear
Input Impedance	50 Ω
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Relative Humidity	10 to 70%
Material Substance Compliance	RoHS Compliant
Dimensions (L x W x H)	$\varnothing 18 \times 400$ mm
Ingress Protection (IP) Rating	IP67

ELECTRICAL PERFORMANCE

Return Loss



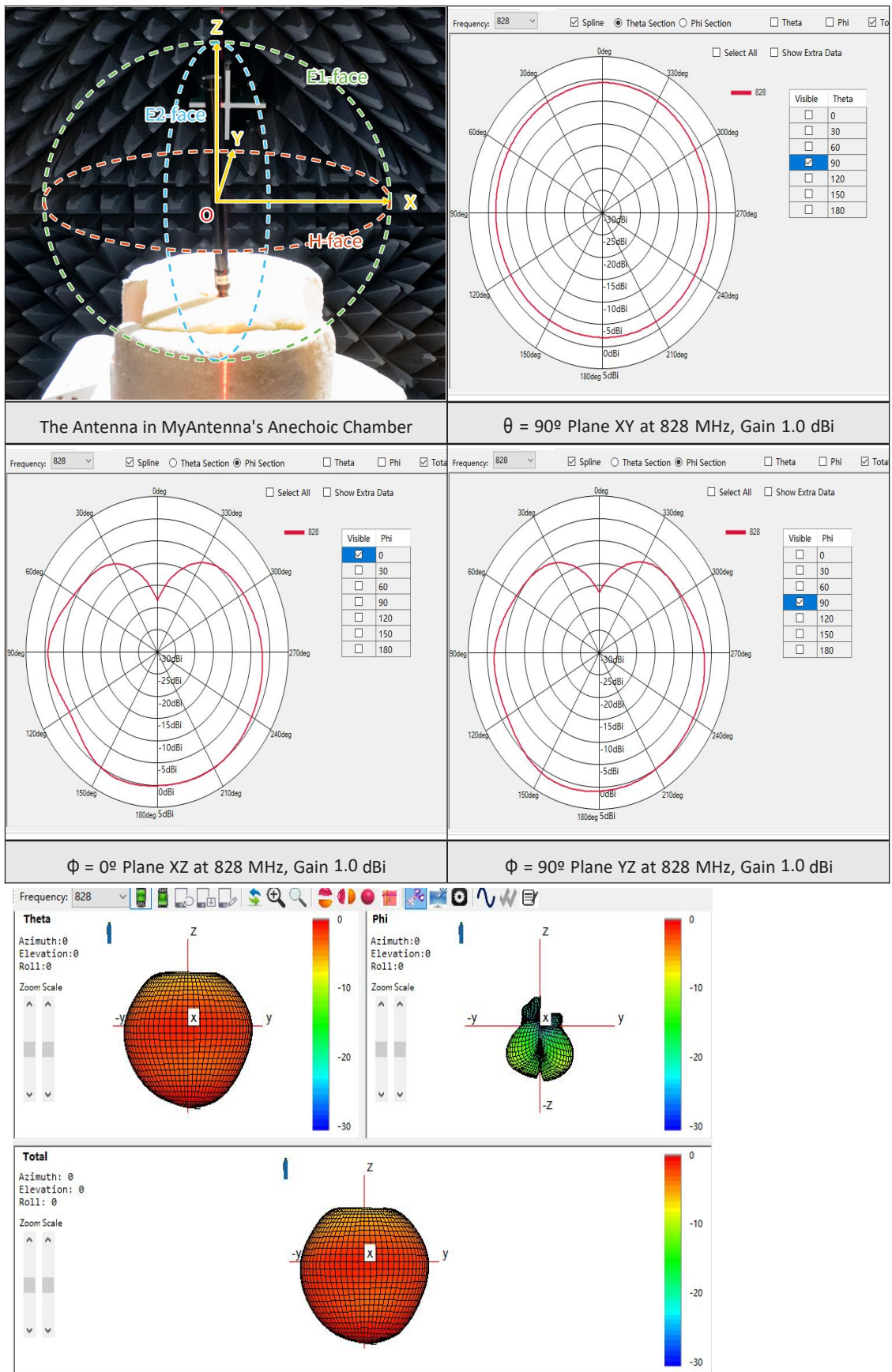
Efficiency (%) and Peak Gain (dBi)



Freq(MHz)	Gain(dBi)	Efficiency(%)	Freq(MHz)	Gain(dBi)	Efficiency(%)	Freq(MHz)	Gain(dBi)	Efficiency(%)
698	1.97	89.43	958	0.74	43.63	2190	2.77	86.65
708	2.20	93.21	960	0.73	43.89	2210	2.63	84.96
718	2.12	91.21	1710	1.02	62.74	2230	2.60	83.66
728	1.67	83.25	1730	1.46	68.98	2250	2.42	78.92
738	1.50	78.65	1750	1.76	73.83	2270	2.15	74.62
748	1.29	77.35	1770	1.63	70.30	2290	2.02	70.12
758	0.75	67.42	1790	1.71	67.81	2310	1.46	62.65
768	0.97	69.59	1810	1.91	66.16	2330	0.71	60.30
778	0.68	69.57	1830	2.06	65.71	2350	0.04	61.39
788	0.48	65.69	1850	1.82	63.85	2370	-0.25	59.38
798	0.73	68.59	1870	1.15	60.27	2390	-0.33	57.30
808	0.78	64.37	1890	0.49	56.77	2410	0.56	59.52
818	0.56	61.11	1910	0.15	54.75	2430	1.27	60.69
828	1.00	60.61	1930	0.28	55.74	2450	1.73	66.23
838	0.74	58.49	1950	0.34	57.99	2470	2.18	72.96
848	0.76	58.53	1970	0.04	59.03	2490	2.38	79.51
858	1.03	59.33	1990	0.97	64.36	2510	2.91	87.01
868	0.77	58.37	2010	1.53	68.81	2530	3.61	97.67
878	0.99	59.92	2030	1.78	70.95	2550	4.00	104.50
888	0.94	57.81	2050	2.16	73.92	2570	4.06	105.20

898	0.71	54.75	2070	2.66	75.62	2590	4.15	104.38
908	0.94	54.16	2090	2.96	75.99	2610	3.94	103.53
918	0.90	51.59	2110	2.98	79.62	2630	3.67	101.72
928	0.80	49.51	2130	2.97	84.79	2650	3.70	100.88
938	0.70	46.45	2150	2.95	88.80	2670	3.80	98.99
948	0.78	45.70	2170	2.78	88.09	2690	3.77	97.71

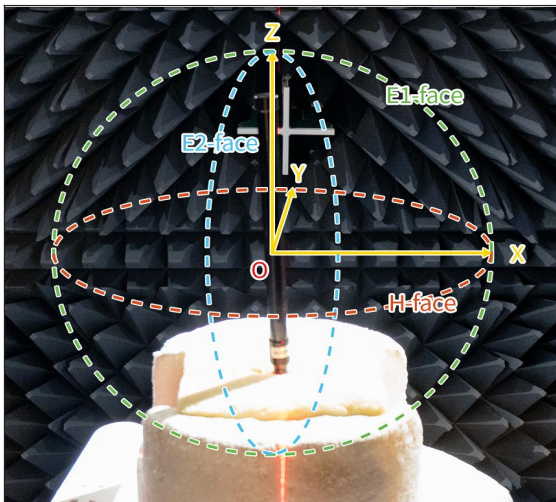
RADIATION PATTERNS



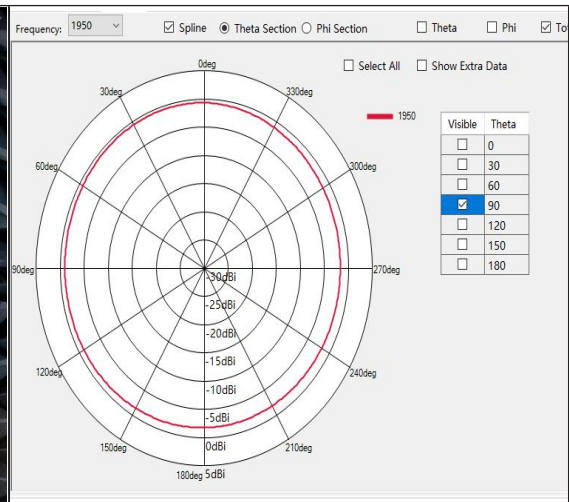
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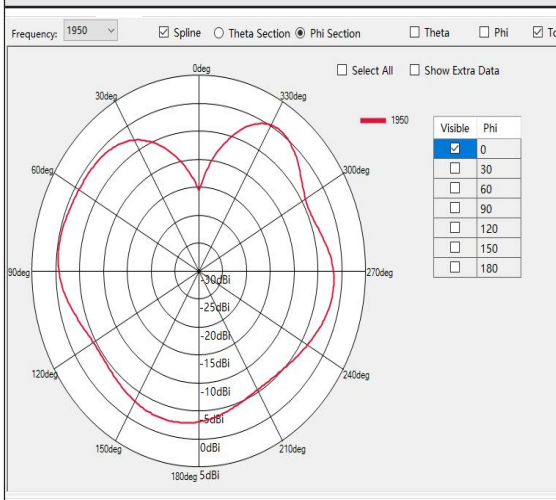
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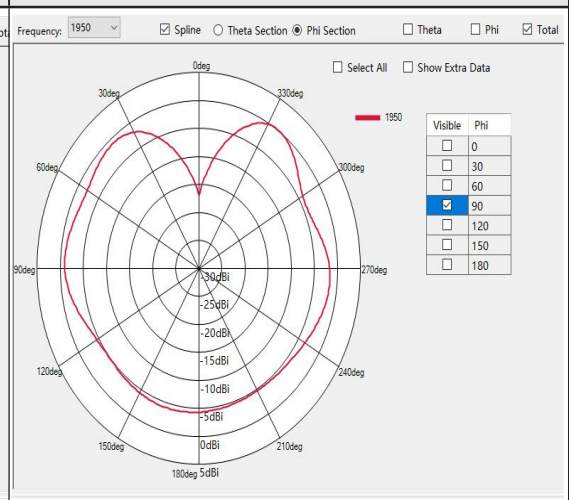
The Antenna in MyAntenna's Anechoic Chamber



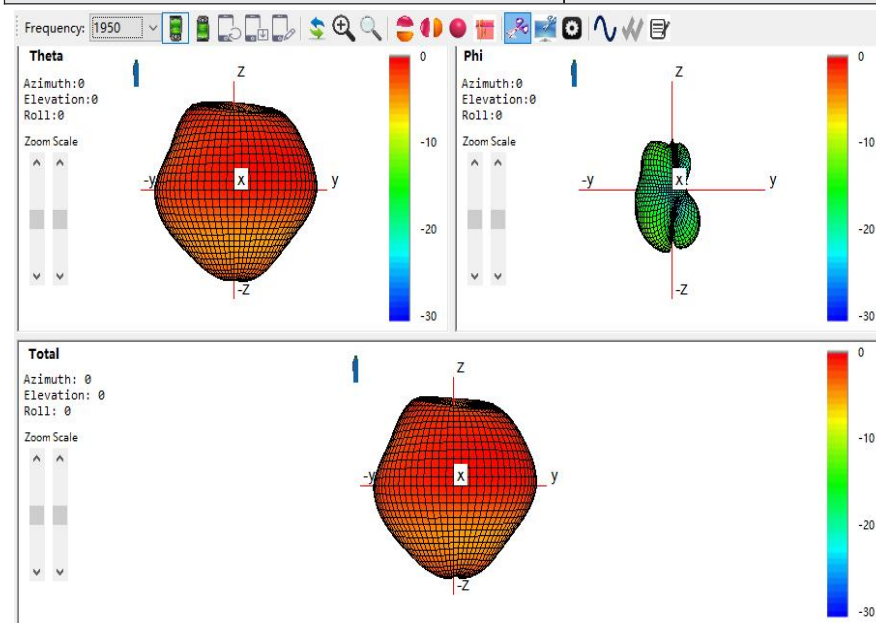
$\theta = 90^\circ$ Plane XY at 1950 MHz, Gain 0.34 dBi

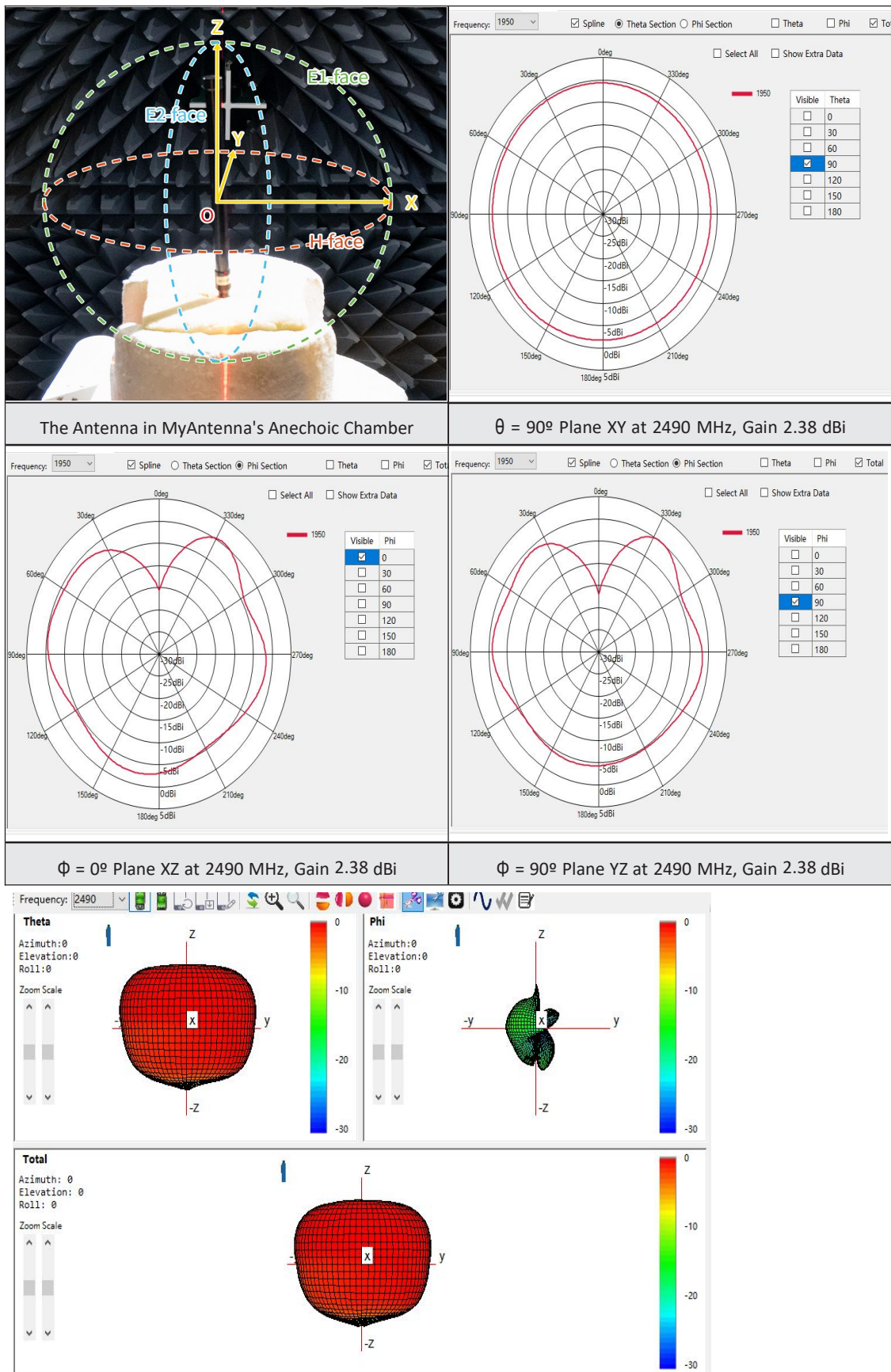


$\phi = 0^\circ$ Plane XZ at 1950 MHz, Gain 0.34 dBi

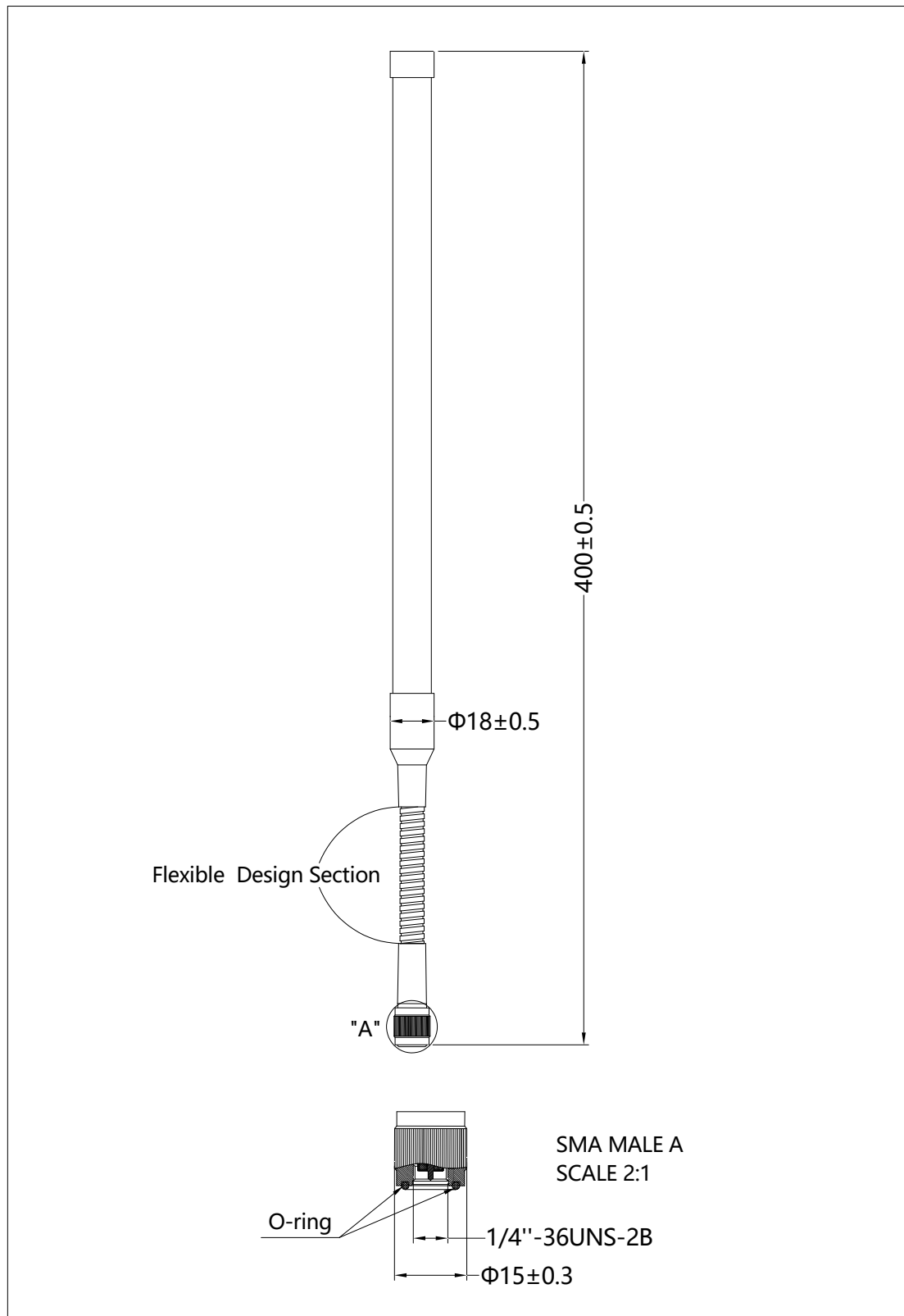


$\phi = 90^\circ$ Plane YZ at 1950 MHz, Gain 0.34 dBi





HOUSING CONFIGURATIONS



Aboosty™ is owned by Shenzhen MyAntenna RF Technology Co., Ltd. (often abbreviated as MyAntenna).