



好天线 · 优比造

东莞市优比电子有限公司

Dongguan UB Electronics Co., Ltd

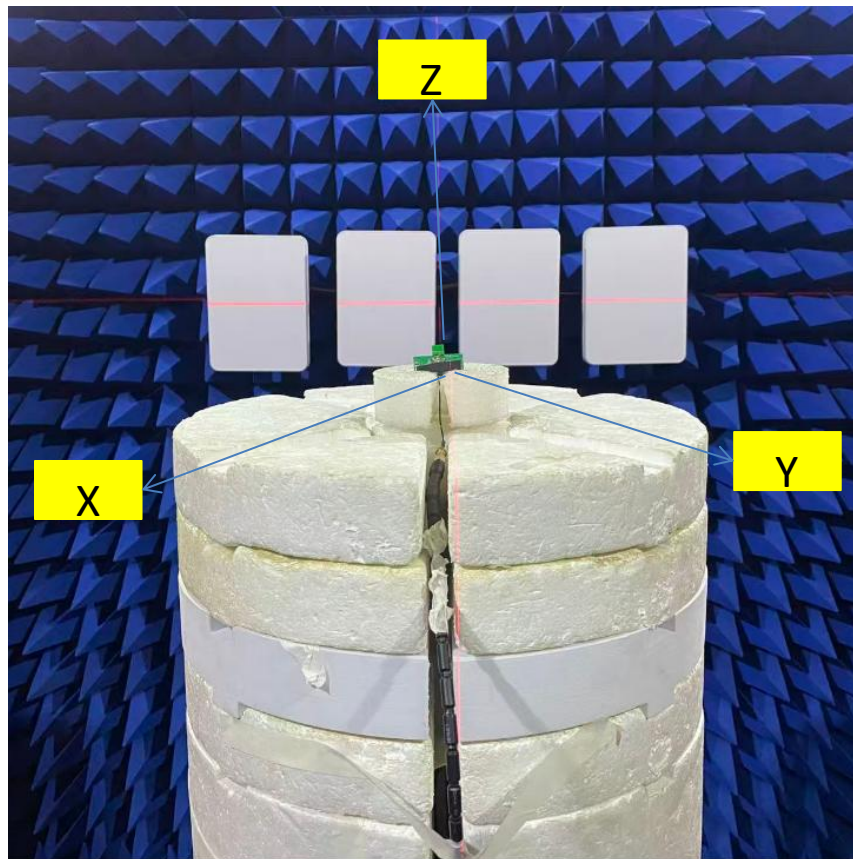
Antenna Study

- **Client Name: Beijing Jia An Electronics Technology Co., Ltd.**
- **Project Name: PCB Antenna**
- **Model: ANT-915SA**
- **Debugging frequency band: 900-930HMz**
- **Valuation date: 2025.12.27**

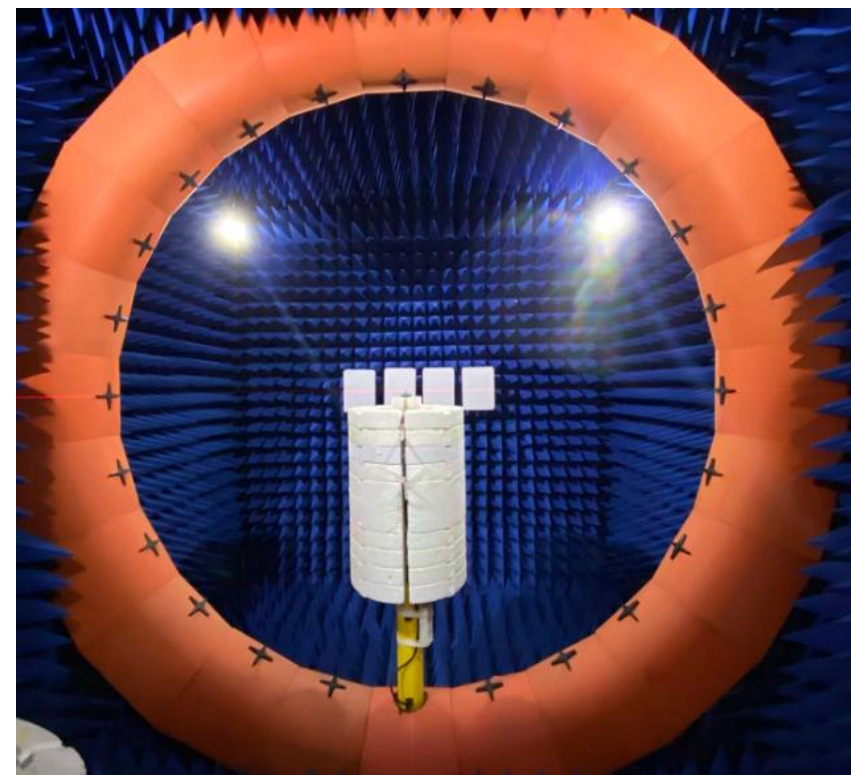
Address: Building 79, New Sun Industrial City, Lin Village Community, Tangxia Town, Dongguan (Dongguan Company) Phone: 0769-81777126

Room 106, Building 3, Lenton Technology Park, No. 500 Qiuyi Road, Binjiang District, Hangzhou (Hangzhou Branch) Fax: 0769-81777125

Room 106, Liuxian Second Road No. 47, LiuXian New Industrial Park, Bao'an District, Shenzhen (Shenzhen Company) Website: www.ubuant.com

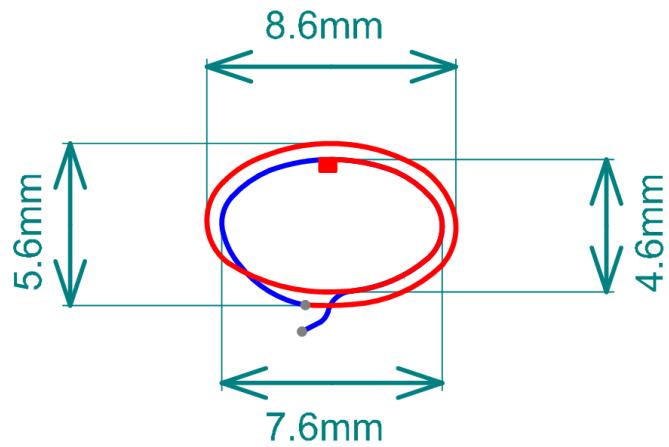


Testing environment



Testing 3D microwave darkroom(3m*3m*3m)

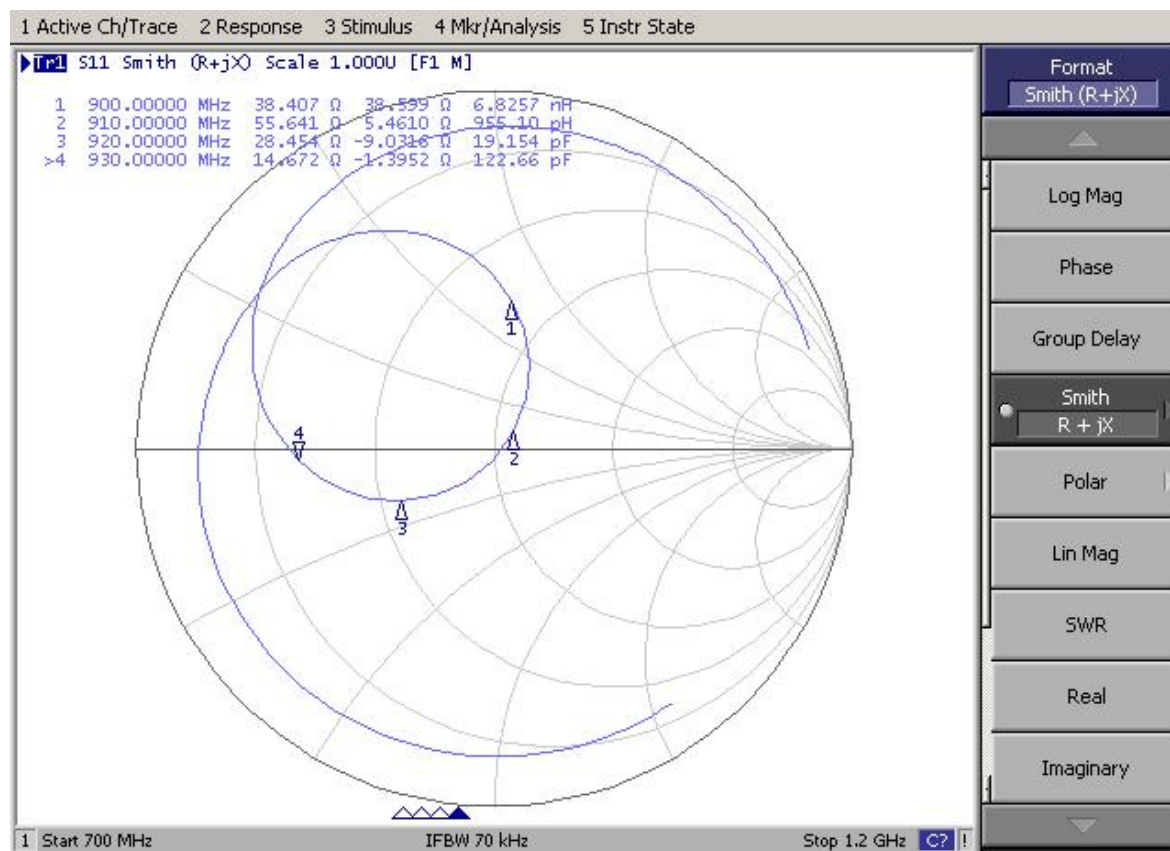
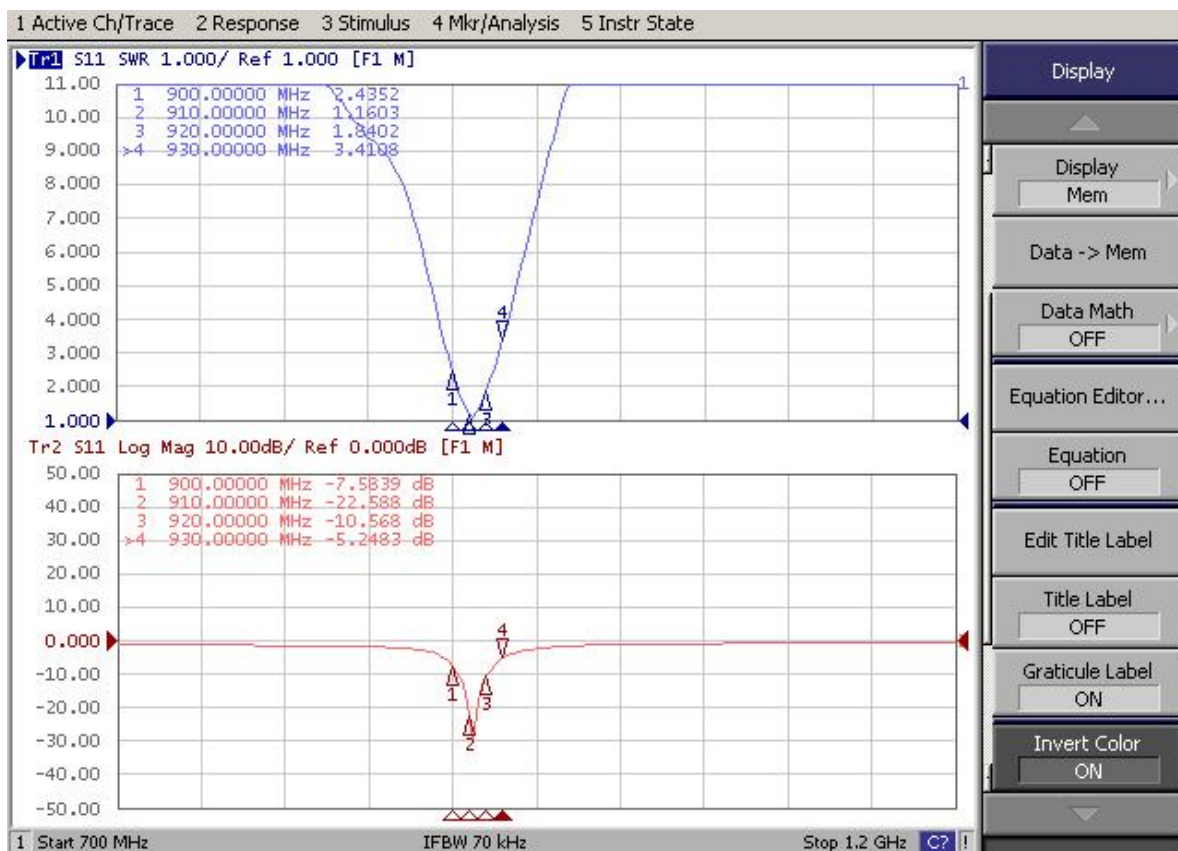
- Antenna name: ANT-915SA
(PCB Antenna)
- Covers : 900/930MHz



Antenna

S Parameter_Return Loss&VSWR-Smith

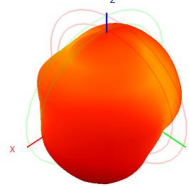
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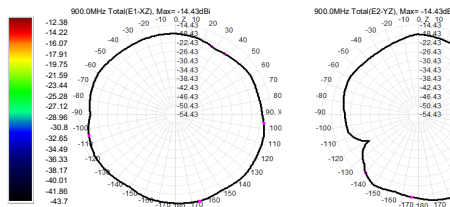
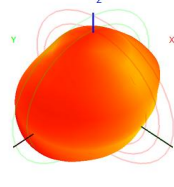
Efficiency and Gain

Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Frequency (MHz)	900.0	901.0	902.0	903.0	904.0	905.0	906.0	907.0	908.0	909.0	910.0	911.0	912.0	913.0	914.0	915.0	916.0	917.0	918.0	919.0	920.0	921.0	922.0	923.0	924.0	925.0	926.0	927.0	928.0	929.0	930.0
Gain (dBi)	-12.38	-12.23	-12.11	-12.03	-11.99	-11.98	-11.98	-12.02	-12.06	-12.12	-12.20	-12.28	-12.37	-12.46	-12.57	-12.69	-12.86	-13.05	-13.24	-13.45	-13.67	-13.92	-14.17	-14.41	-14.64	-14.87	-15.10	-15.31	-15.51	-15.69	-15.88
Efficiency (%)	1.52	1.58	1.63	1.66	1.69	1.69	1.70	1.69	1.67	1.65	1.63	1.60	1.58	1.55	1.52	1.49	1.45	1.40	1.35	1.29	1.24	1.18	1.12	1.07	1.01	0.96	0.92	0.88	0.84	0.81	0.79

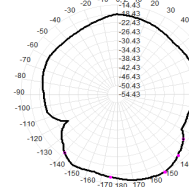
900.0MHz Total, Eff: 1.5%



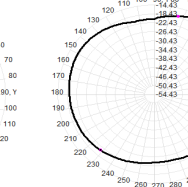
Back View



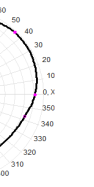
900.0MHz Total(E1-XZ), Max=-14.43dB



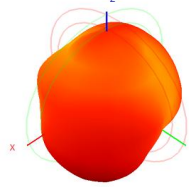
900.0MHz Total(E2-YZ), Max=-14.43dB



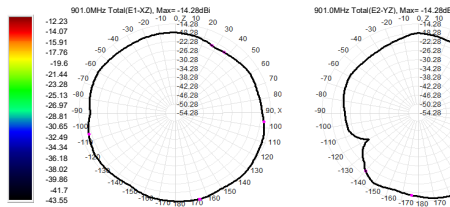
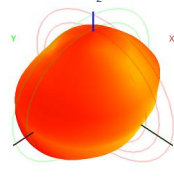
Total(H-XY), Max=-15.21dB, CrD=8.88



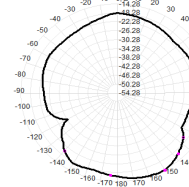
901.0MHz Total, Eff: 1.6%



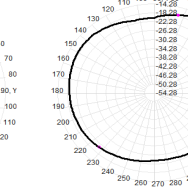
Back View



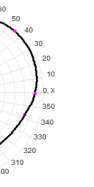
901.0MHz Total(E1-XZ), Max=-14.28dB



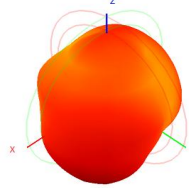
901.0MHz Total(E2-YZ), Max=-14.28dB



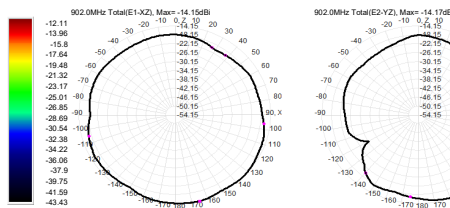
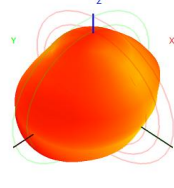
Total(H-XY), Max=-15.04dB, CrD=9.01



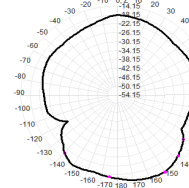
902.0MHz Total, Eff: 1.6%



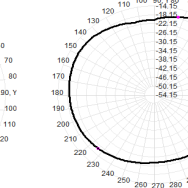
Back View



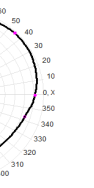
902.0MHz Total(E1-XZ), Max=-14.15dB



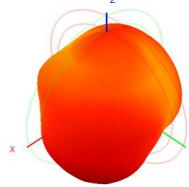
902.0MHz Total(E2-YZ), Max=-14.15dB



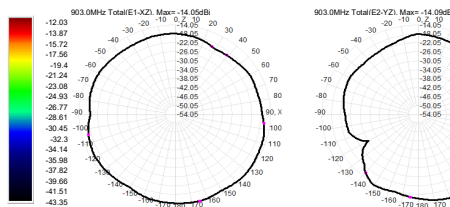
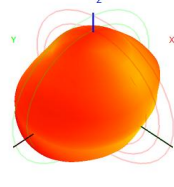
Total(H-XY), Max=-14.92dB, CrD=9.04



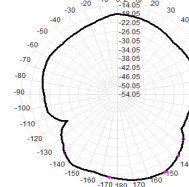
903.0MHz Total, Eff: 1.7%



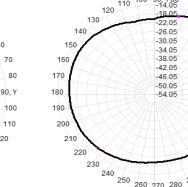
Back View



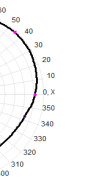
903.0MHz Total(E1-XZ), Max=-14.05dB



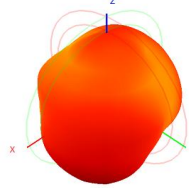
903.0MHz Total(E2-YZ), Max=-14.05dB



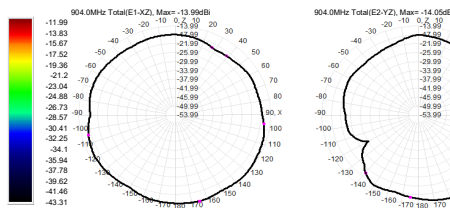
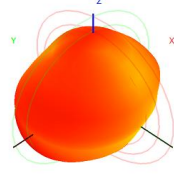
Total(H-XY), Max=-14.80dB, CrD=9.05



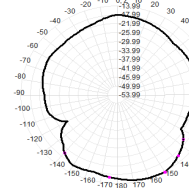
904.0MHz Total, Eff: 1.7%



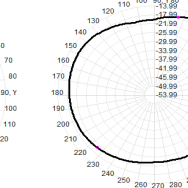
Back View



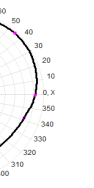
904.0MHz Total(E1-XZ), Max=-13.99dB



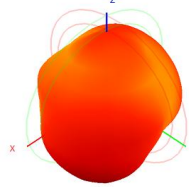
904.0MHz Total(E2-YZ), Max=-13.99dB



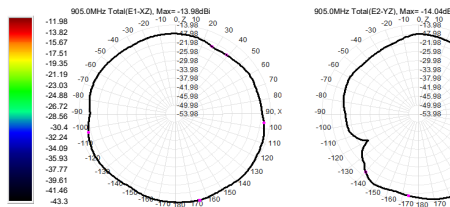
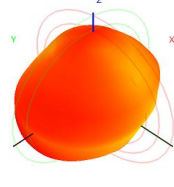
Total(H-XY), Max=-14.74dB, CrD=9.10



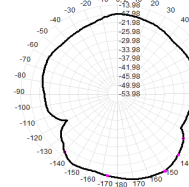
905.0MHz Total, Eff: 1.7%



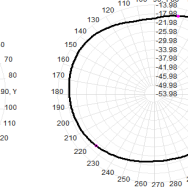
Back View



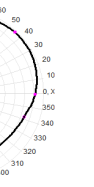
905.0MHz Total(E1-XZ), Max=-13.98dB



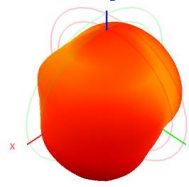
905.0MHz Total(E2-YZ), Max=-13.98dB



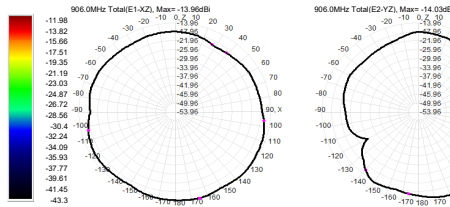
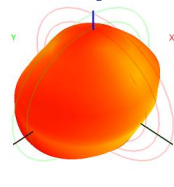
Total(H-XY), Max=-14.68dB, CrD=9.15



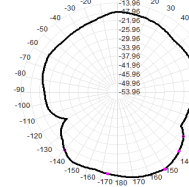
906.0MHz Total, Eff: 1.7%



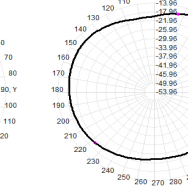
Back View



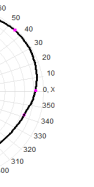
906.0MHz Total(E1-XZ), Max=-13.96dB



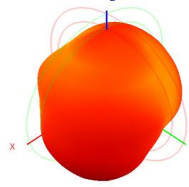
906.0MHz Total(E2-YZ), Max=-13.96dB



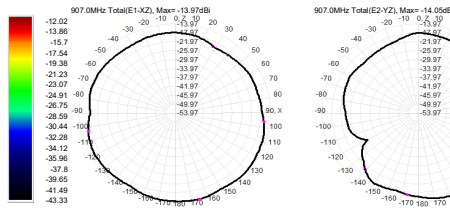
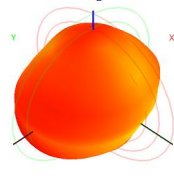
Total(H-XY), Max=-14.68dB, CrD=9.21



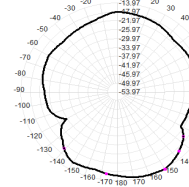
907.0MHz Total, Eff: 1.7%



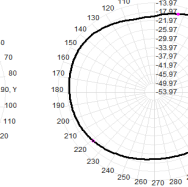
Back View



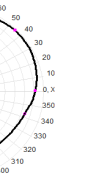
907.0MHz Total(E1-XZ), Max=-13.97dB



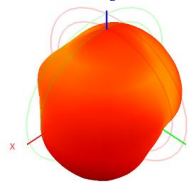
907.0MHz Total(E2-YZ), Max=-13.97dB



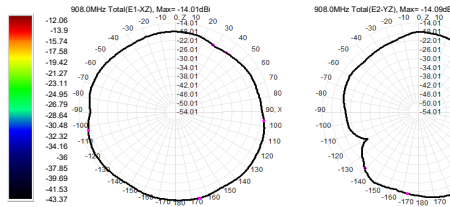
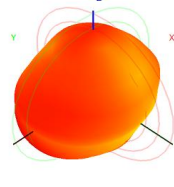
Total(H-XY), Max=-14.68dB, CrD=9.24



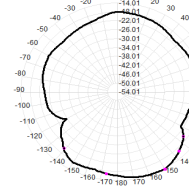
908.0MHz Total, Eff: 1.7%



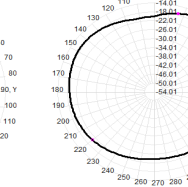
Back View



908.0MHz Total(E1-XZ), Max=-14.01dB



908.0MHz Total(E2-YZ), Max=-14.01dB



Total(H-XY), Max=-14.72dB, CrD=9.31

