

测试报告 (Test report)



客户名称(CN)		项目名称(RN)	915M Glue rod antenna
测试频段 Test frequency band	915Mhz	天线类型 antenna form	Glue rod antenna
射频工程师 (RF)		结构工程师 (ME)	
日期(Date)	2025/08/19	制表人 Watchmaker	

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一、报告版本提要 (Summary of the report version)

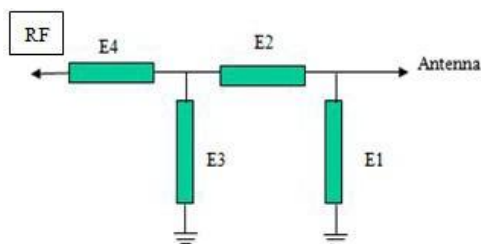
版本 Version number	日期 Date	内容概况 Content Overview
V1.0	2025/08/19	初始版本

二、天线实物图 (Physical diagram of the antenna)

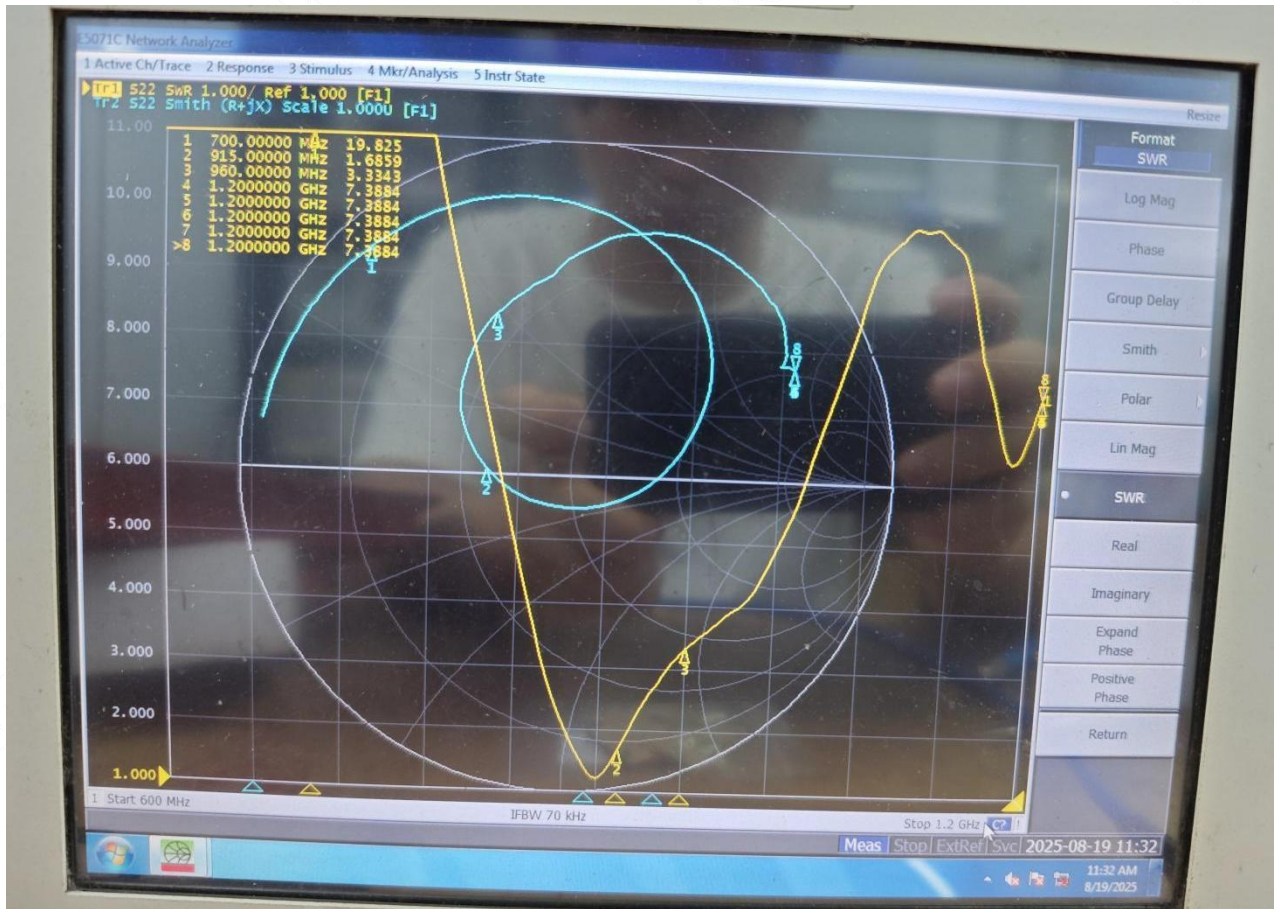


三、天线匹配电路 (Antenna matching circuit)

Element	E1	E2	E3	
Value	/	/	/	

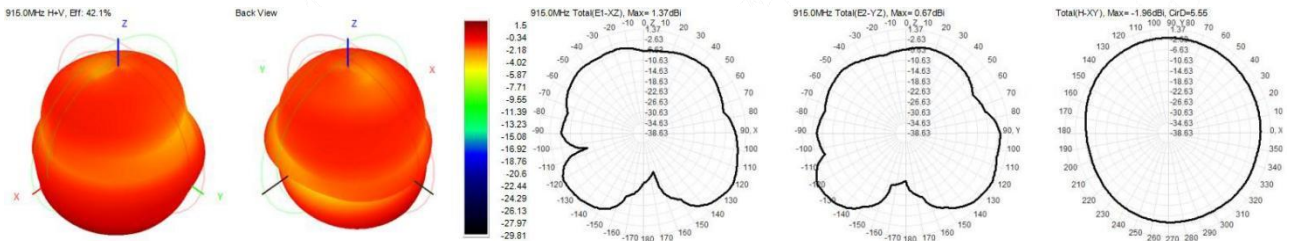


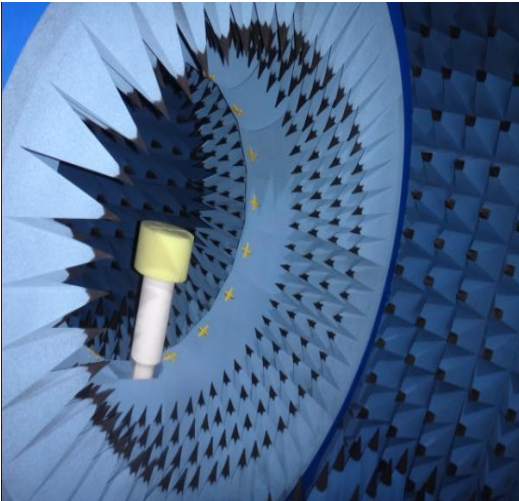
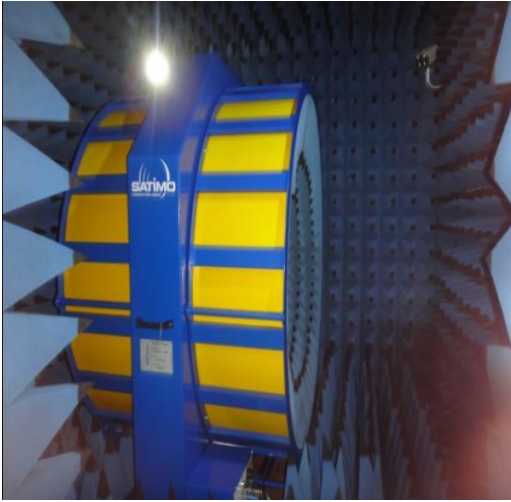
四、天线驻波比、回波损耗 (Standing wave ratio, return loss)



五、增益、效率、辐射方向图 (Gain, efficiency, radiation pattern)

Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Frequency (MHz)	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920
Efficiency (dBi)	-4.43	-4.45	-4.44	-4.40	-4.33	-4.24	-4.17	-4.10	-4.04	-4.00	-3.99	-3.86	-3.77	-3.73	-3.72	-3.75	-3.71	-3.67	-3.63	-3.59	-3.53
Gain (dBi)	1.13	1.05	1.07	1.07	1.12	1.19	1.24	1.28	1.35	1.34	1.34	1.46	1.53	1.56	1.55	1.50	1.54	1.57	1.59	1.63	1.67
Efficiency (%)	36.06	35.86	35.97	36.33	36.94	37.71	38.26	38.87	39.42	39.78	39.93	41.11	41.94	42.38	42.42	42.15	42.59	42.95	43.34	43.74	44.33
Directivity (dB)	5.56	5.51	5.51	5.47	5.45	5.43	5.41	5.39	5.39	5.34	5.32	5.32	5.30	5.29	5.28	5.26	5.24	5.24	5.22	5.22	5.20
Peak Gain Position (Theta)	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00
Peak Gain Position (Phi)	345.00	345.00	345.00	345.00	345.00	345.00	345.00	345.00	345.00	345.00	345.00	345.00	345.00	345.00	345.00	345.00	345.00	345.00	345.00	345.00	345.00
Efficiency ThetaPol (%)	26.45	26.25	26.29	26.49	26.89	27.42	27.80	28.25	28.67	28.98	29.14	30.08	30.77	31.17	31.29	31.16	31.55	31.87	32.19	32.51	32.96
Efficiency PhiPol (%)	9.61	9.61	9.69	9.84	10.05	10.29	10.46	10.62	10.75	10.81	10.79	11.02	11.17	11.20	11.13	10.99	11.04	11.08	11.15	11.23	11.36
Upper Hem. Efficiency (%)	12.39	12.35	12.41	12.56	12.80	13.10	13.31	13.54	13.74	13.89	13.96	14.37	14.66	14.82	14.84	14.75	14.91	15.05	15.19	15.34	15.56
Lower Hem. Efficiency (%)	23.68	23.51	23.56	23.78	24.14	24.61	24.95	25.33	25.68	25.89	25.98	26.74	27.28	27.56	27.58	27.40	27.68	27.90	28.14	28.40	28.76
T90(H)角度	7.01	6.83	6.77	6.64	6.48	6.32	6.28	6.18	6.09	5.91	5.93	5.83	5.76	5.69	5.59	5.55	5.59	5.45	5.47	5.50	5.46
Gain 15deg (dBi)																					
E1(XZ)波瓣宽度	40.00	40.00	40.00	40.00	40.00	40.00	40.00	39.00	40.00	39.00	40.00	40.00	40.00	40.00	40.00	39.00	40.00	39.00	40.00	40.00	40.00
E1(XZ)前后比	6.52	6.49	6.46	6.43	6.48	6.46	6.48	6.51	6.47	6.49	6.47	6.48	6.52	6.48	6.47	6.48	6.45	6.47	6.45	6.43	6.43
E2(YZ)波瓣宽度	30.00	31.00	31.00	31.00	31.00	31.00	31.00	31.00	32.00	32.00	32.00	33.00	33.00	33.00	33.00	33.00	33.00	33.00	33.00	33.00	33.00
E2(YZ)前后比	6.79	6.71	6.71	6.73	6.65	6.66	6.60	6.59	6.55	6.51	6.49	6.49	6.43	6.44	6.36	6.34	6.27	6.25	6.21	6.22	6.18
最大增益处轴比(P)	25.37	25.63	26.04	25.76	25.84	26.39	26.93	27.16	28.61	29.39	30.33	30.25	31.44	32.13	32.36	34.01	33.94	35.23	35.96	38.02	37.98
顶点(Theta=0)轴比(P)	10.22	9.97	9.53	9.22	8.95	8.73	8.11	8.09	7.78	7.40	7.27	7.27	6.92	6.85	6.70	6.40	6.41	6.48	6.37	6.36	6.16
仰角10度最差(大)轴比(P)	48.42	48.15	48.23	48.13	47.70	49.13	47.93	47.91	47.98	48.23	47.93	48.31	48.34	48.16	48.26	48.01	47.76	48.14	47.71	47.93	47.95
Hc(XY)波瓣宽度	234.00	237.00	240.00	244.00	247.00	249.00	251.00	254.00	255.00	257.00	261.00	261.00	261.00	262.00	264.00	266.00	265.00	267.00	268.00	268.00	269.00
Hc(XY)前后比	2.40	2.31	2.27	2.28	2.26	2.20	2.17	2.17	2.16	2.13	2.15	2.07	2.13	2.09	2.05	2.07	2.06	1.99	2.02	2.02	2.01
左旋圆极化效率(%)	19.90	19.78	19.83	20.02	20.36	20.75	21.02	21.34	21.63	21.81	21.87	22.49	22.94	23.16	23.15	22.98	23.23	23.41	23.59	23.79	24.11
右旋圆极化效率(%)	16.17	16.08	16.15	16.31	16.58	16.96	17.24	17.53	17.79	17.97	18.06	18.61	19.00	19.21	19.27	19.16	19.36	19.53	19.75	19.95	20.22





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