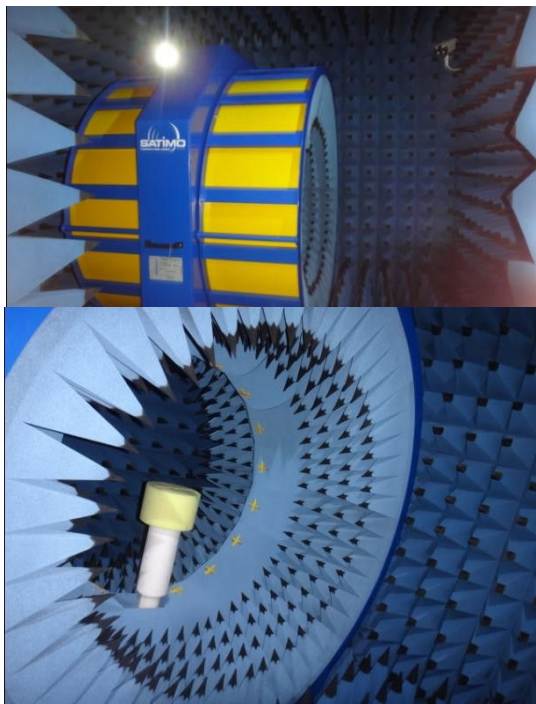


Manufacturer: Shenzhen HX Antenna Co., LTD
Test Report





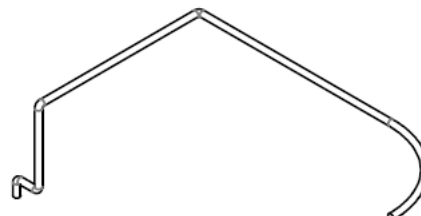
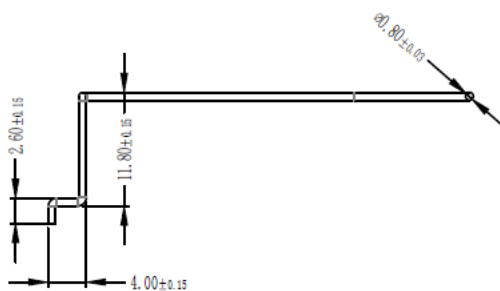
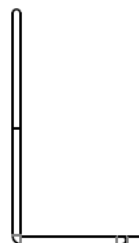
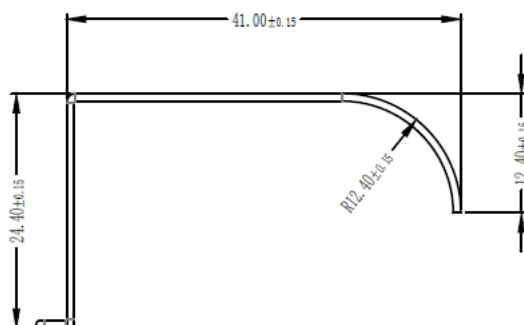
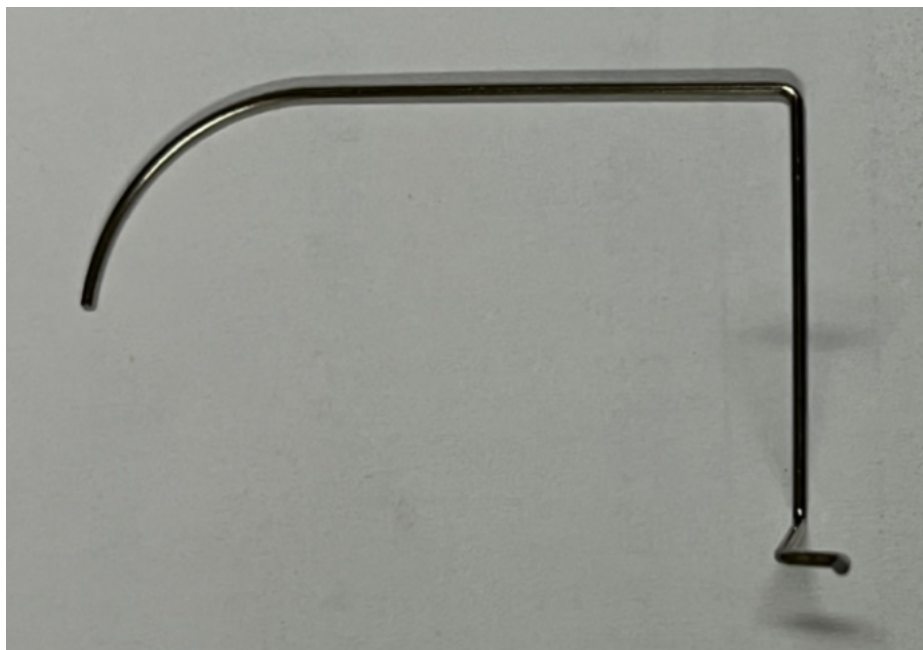
-  Report Version
-  Antenna Physical Image
-  VSWR & Return Loss
-  Matching Circuit
-  Gain & Efficiency & Radiation Pattern

一：Report Version

Version	Date	Content Summary
V1.0	2024/5/23	Initial Version

二：Antenna Physical Image

unit:mm

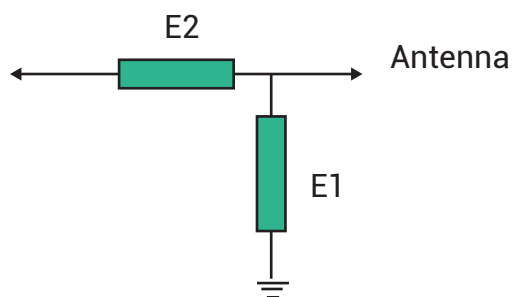


三：VSWR & Return Loss



四：Matching Circuit

Element	E1	E2		
Value	NC	0R		



五：Gain & Efficiency & Radiation Pattern

Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Frequency (MHz)	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923
Efficiency (dBi)	-5.17	-5.11	-5.11	-4.99	-4.92	-4.90	-4.93	-4.99	-4.98	-4.97	-4.95	-4.92	-4.87	-4.90	-4.91	-4.88
Gain (dBi)	0.84	0.89	0.85	0.91	0.96	0.93	0.87	0.72	0.68	0.62	0.61	0.57	0.54	0.48	0.39	0.34
Efficiency (%)	30.44	30.81	30.87	31.73	32.23	32.37	32.16	31.66	31.79	31.87	32.00	32.20	32.61	32.33	32.30	32.51
Directivity (dB)	6.00	6.00	5.96	5.90	5.88	5.83	5.79	5.72	5.66	5.59	5.56	5.49	5.41	5.38	5.30	5.22
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
Peak Gain Position (Phi)	195.00	195.00	195.00	195.00	195.00	195.00	195.00	195.00	195.00	195.00	195.00	195.00	195.00	195.00	195.00	195.00
Efficiency ThetaPol (%)	13.93	14.23	14.38	14.94	15.32	15.54	15.59	15.50	15.67	15.81	15.96	16.13	16.40	16.31	16.34	16.47
Efficiency PhiPol (%)	16.51	16.59	16.48	16.79	16.91	16.83	16.56	16.16	16.12	16.06	16.04	16.07	16.21	16.02	15.96	16.04
Upper Hem. Efficiency (%)	11.37	11.51	11.54	11.88	12.08	12.16	12.10	11.92	11.97	12.02	12.09	12.17	12.36	12.27	12.28	12.37
Lower Hem. Efficiency (%)	19.07	19.30	19.32	19.85	20.15	20.22	20.06	19.74	19.82	19.86	19.91	20.03	20.25	20.06	20.02	20.14

T90(H)图度	10.96	10.86	10.77	10.58	10.48	10.23	10.19	9.97	10.03	9.86	9.66	9.48	9.39	9.27	9.14	9.02
Gain 15deg (dBi)																
E1(XZ)波谱宽度	44.00	44.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	44.00	45.00	44.00
E1(XZ)前后比	4.04	4.07	4.10	4.11	4.16	4.17	4.24	4.28	4.32	4.35	4.36	4.45	4.45	4.48	4.45	4.51
E2(YZ)波谱宽度	40.00	40.00	40.00	40.00	40.00	41.00	41.00	41.00	41.00	41.00	42.00	42.00	42.00	40.00	40.00	39.00
E2(YZ)前后比	1.00	1.09	1.08	1.06	1.05	1.08	1.09	1.04	1.08	0.97	0.97	0.91	0.91	0.82	0.91	0.98
最大增益处轴比(P)	4.41	4.46	4.57	4.63	4.66	4.66	4.69	4.71	4.68	4.68	4.68	4.74	4.67	4.67	4.66	4.71
顶点(Theta=0)处轴比(P)	8.36	8.50	8.60	8.75	8.96	9.02	9.23	9.31	9.38	9.58	9.68	9.66	9.76	9.96	10.01	10.07
仰角10度最差(大)轴比(P)	34.17	34.59	34.07	46.89	49.24	46.85	46.83	44.34	42.02	48.12	42.96	46.89	46.92	41.97	47.99	37.26
Hc(XY)波谱宽度	74.00	75.00	76.00	77.00	77.00	78.00	79.00	79.00	82.00	82.00	83.00	84.00	85.00	86.00	86.00	87.00
Hc(XY)前后比	3.21	3.26	3.41	3.41	3.49	3.55	3.65	3.79	3.85	4.02	4.13	4.28	4.36	4.50	4.60	4.79
左旋圆极化效率(%)	19.70	19.93	19.90	20.41	20.69	20.73	20.54	20.17	20.22	20.25	20.30	20.41	20.64	20.44	20.39	20.48
右旋圆极化效率(%)	10.73	10.88	10.96	11.32	11.54	11.65	11.62	11.49	11.57	11.62	11.70	11.80	11.96	11.89	11.91	12.03

