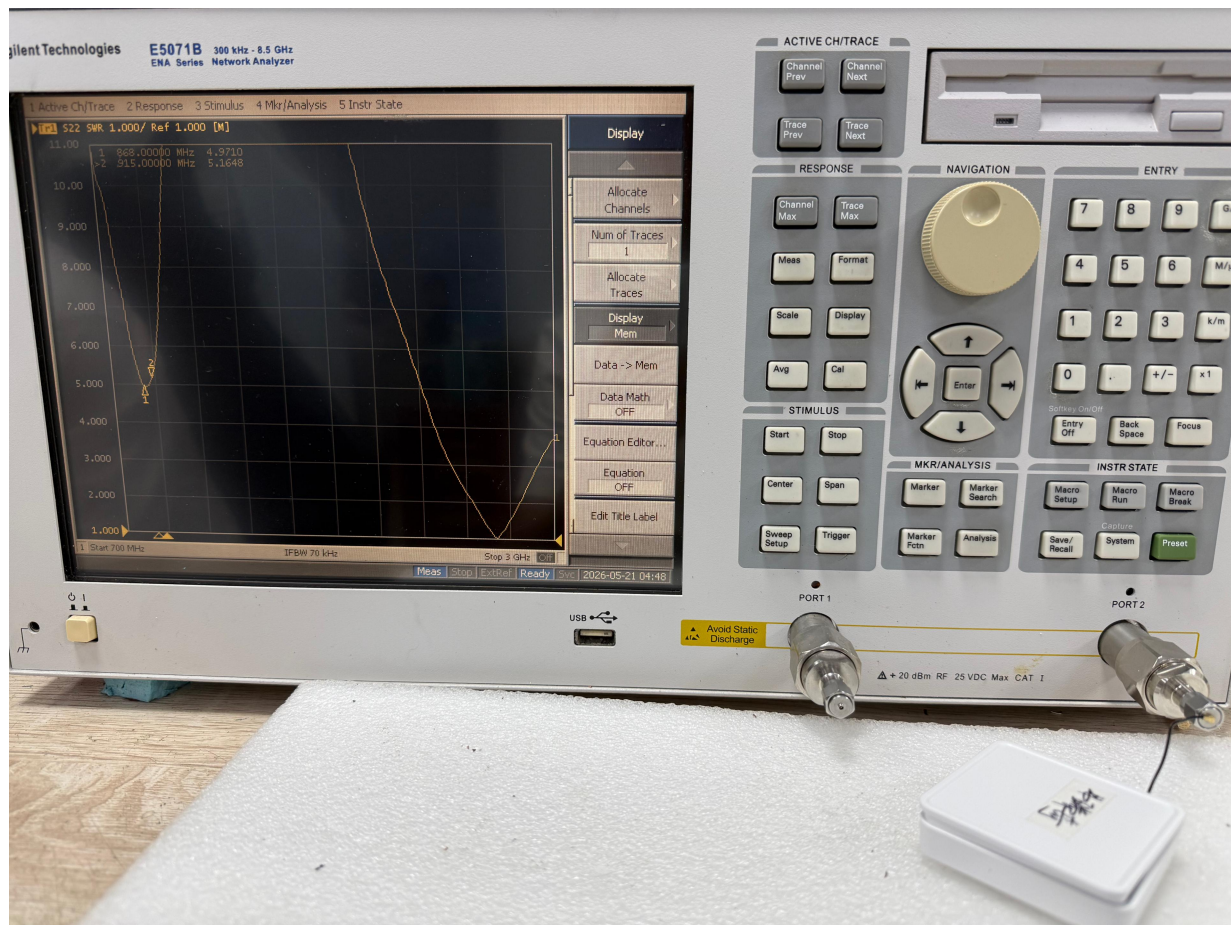


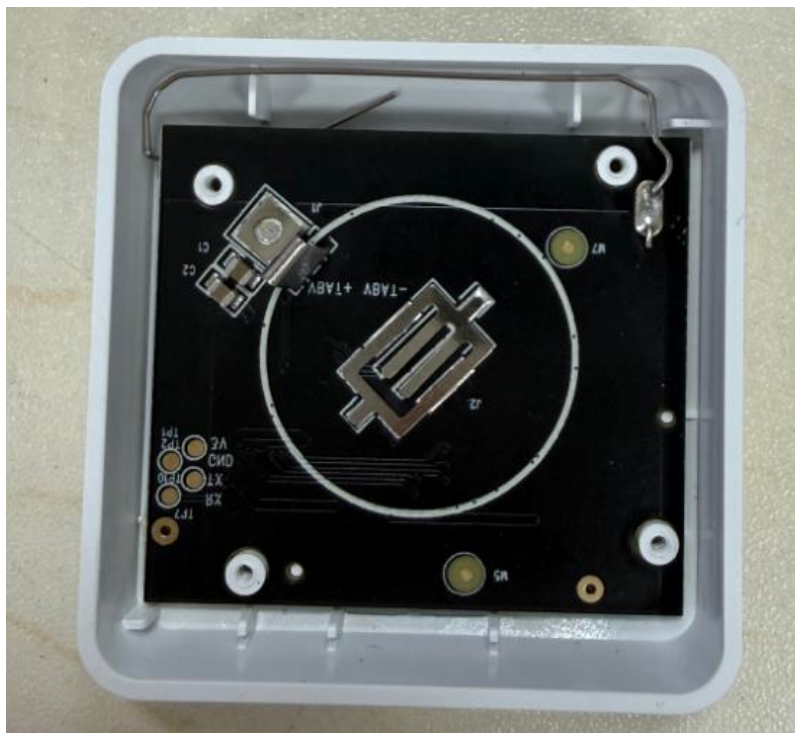
Antenna Specification Document

Model	WB1		
Client	Furchi Technology		
Specification Description			
	Product Contents	Specification	Customer Material Code
Specification	868/915 Antenna	WB1-RF Antenna - 868/915 MHz - Carbon steel plated with nickel - Wire diameter 0.5mm - Length 41.31MM - Width 12.78MM - ROHS - 1000 mesh (QM-WB1-868/915)	
Change resume			
Serial Number	Date	Version	Summary of Changes
1	2026-05-20	V1.0	New project
2	2026-06-18	V2.0	Structural modification
3			

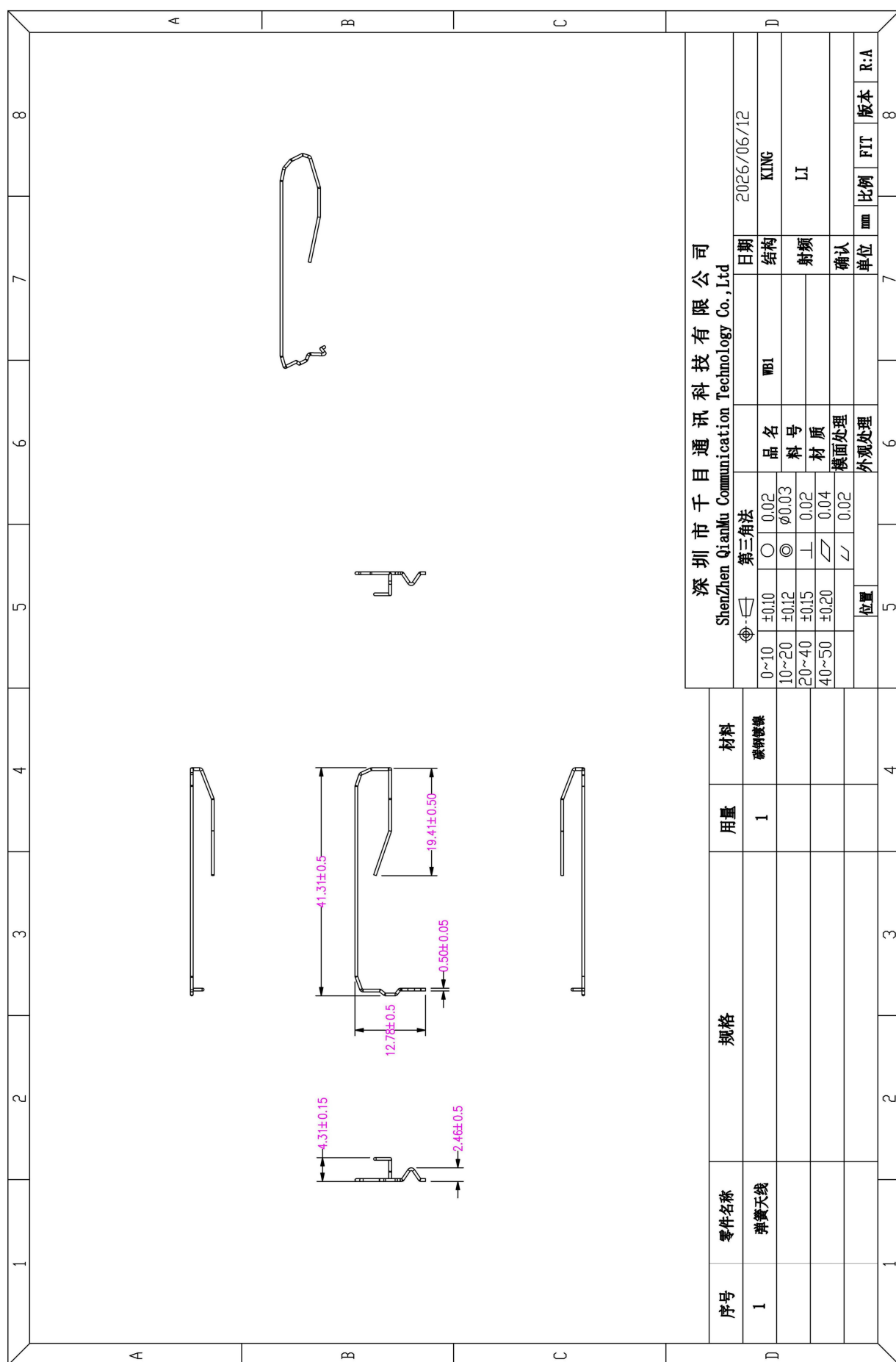
1、Passive standing wave



2、Antenna Placement



3、 Engineering drawing



4、868-920MHz Antenna efficiency and gain

Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13
Frequency (MHz)	860.0	865.0	870.0	875.0	880.0	885.0	890.0	895.0	900.0	905.0	910.0	915.0	920.0
Point Values													
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-4.74	-4.21	-3.89	-3.55	-3.29	-3.20	-3.20	-3.31	-3.48	-3.66	-3.90	-4.16	-4.40
Peak EIRP (dBm)	-0.21	0.16	0.35	0.75	1.14	1.30	1.21	1.06	0.87	0.63	0.36	0.05	-0.07
Directivity (dBi)	4.52	4.37	4.25	4.31	4.43	4.49	4.41	4.37	4.35	4.29	4.26	4.20	4.33
Efficiency (dB)	-4.74	-4.21	-3.89	-3.55	-3.29	-3.20	-3.20	-3.31	-3.48	-3.66	-3.90	-4.16	-4.40
Efficiency (%)	33.60	37.90	40.80	44.10	46.80	47.90	47.90	46.60	44.90	43.00	40.80	38.40	36.30
Gain (dBi)	-0.21	0.16	0.35	0.75	1.14	1.30	1.21	1.06	0.87	0.63	0.36	0.05	-0.07
NHPRP $\pm\pi/4$ (dBm)	-6.37	-5.87	-5.56	-5.23	-4.96	-4.87	-4.86	-4.98	-5.14	-5.33	-5.56	-5.82	-6.07
NHPRP $\pm\pi/6$ (dBm)	-8.62	-8.10	-7.76	-7.35	-7.00	-6.83	-6.76	-6.82	-6.93	-7.07	-7.26	-7.48	-7.70
NHPRP $\pm\pi/8$ (dBm)	-10.86	-10.23	-9.76	-9.19	-8.68	-8.38	-8.20	-8.18	-8.22	-8.32	-8.46	-8.65	-8.85
Upper Hem. PRP (dBm)	-8.63	-8.05	-7.73	-7.39	-7.14	-7.08	-7.11	-7.26	-7.49	-7.76	-8.12	-8.54	-9.01
Lower Hem. PRP (dBm)	-7.01	-6.52	-6.21	-5.87	-5.60	-5.48	-5.46	-5.55	-5.67	-5.80	-5.96	-6.12	-6.25
Upper Hem. PRP (%)	13.69	15.67	16.87	18.24	19.30	19.60	19.47	18.79	17.82	16.74	15.41	13.98	12.57
Lower Hem. PRP (%)	19.92	22.27	23.92	25.89	27.53	28.30	28.42	27.86	27.08	26.30	25.37	24.41	23.70

