

Shenzhen Shanghai Communication Technology Co., LTD

Antenna test report

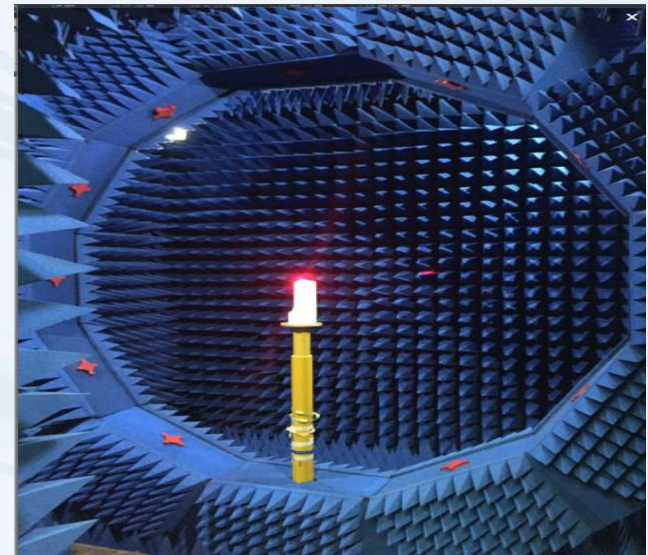
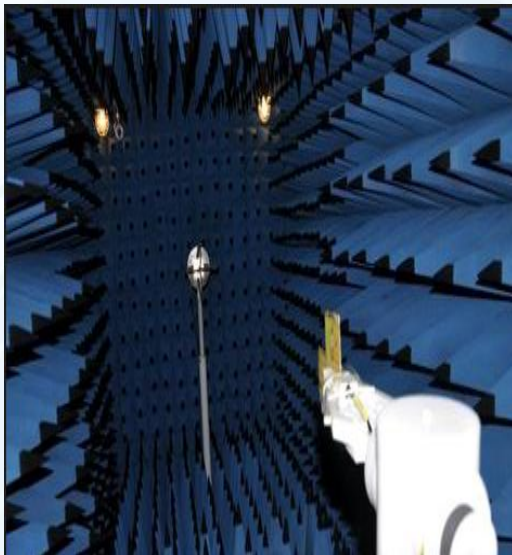
Customer name: Wu Ju
Project name: Bluetooth
Report time: 20240402

- △ Brief introduction of the project commissioning
- △ Report Version Summary
- △ testing environment
- △ Main antenna darkroom data
- △ Additional instructions

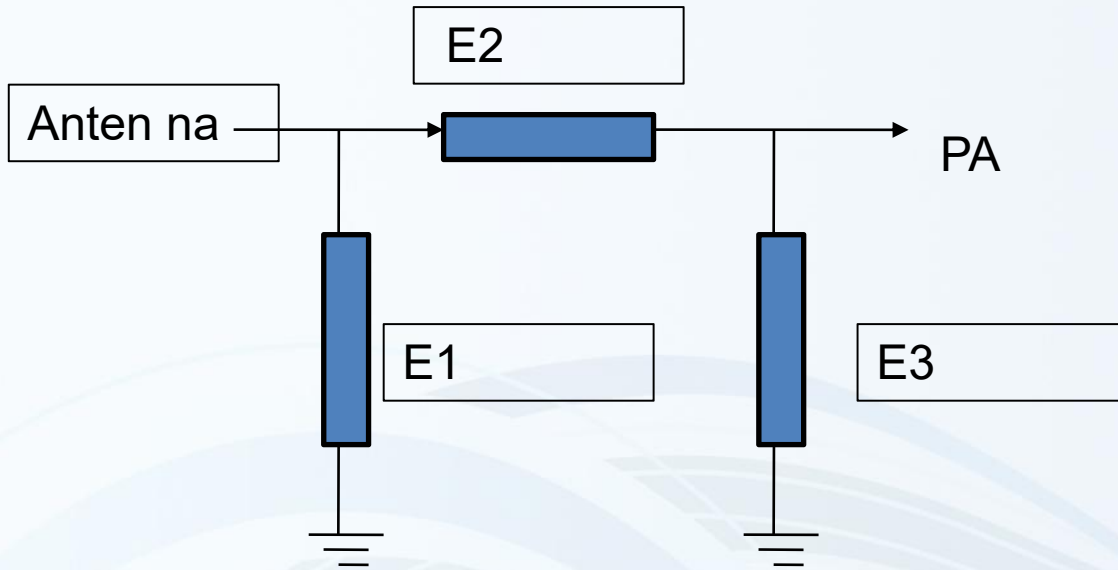
type							
Version / platform							
Antenna profile	main antenna		Antenna band	Antenna state	Antenna debugging form	Antenna design area	Whether the match is changed
	Other antenna	WIFI/BT	2.4G				

Report version feed

edition	date	Content overview
V1	20240402	test report



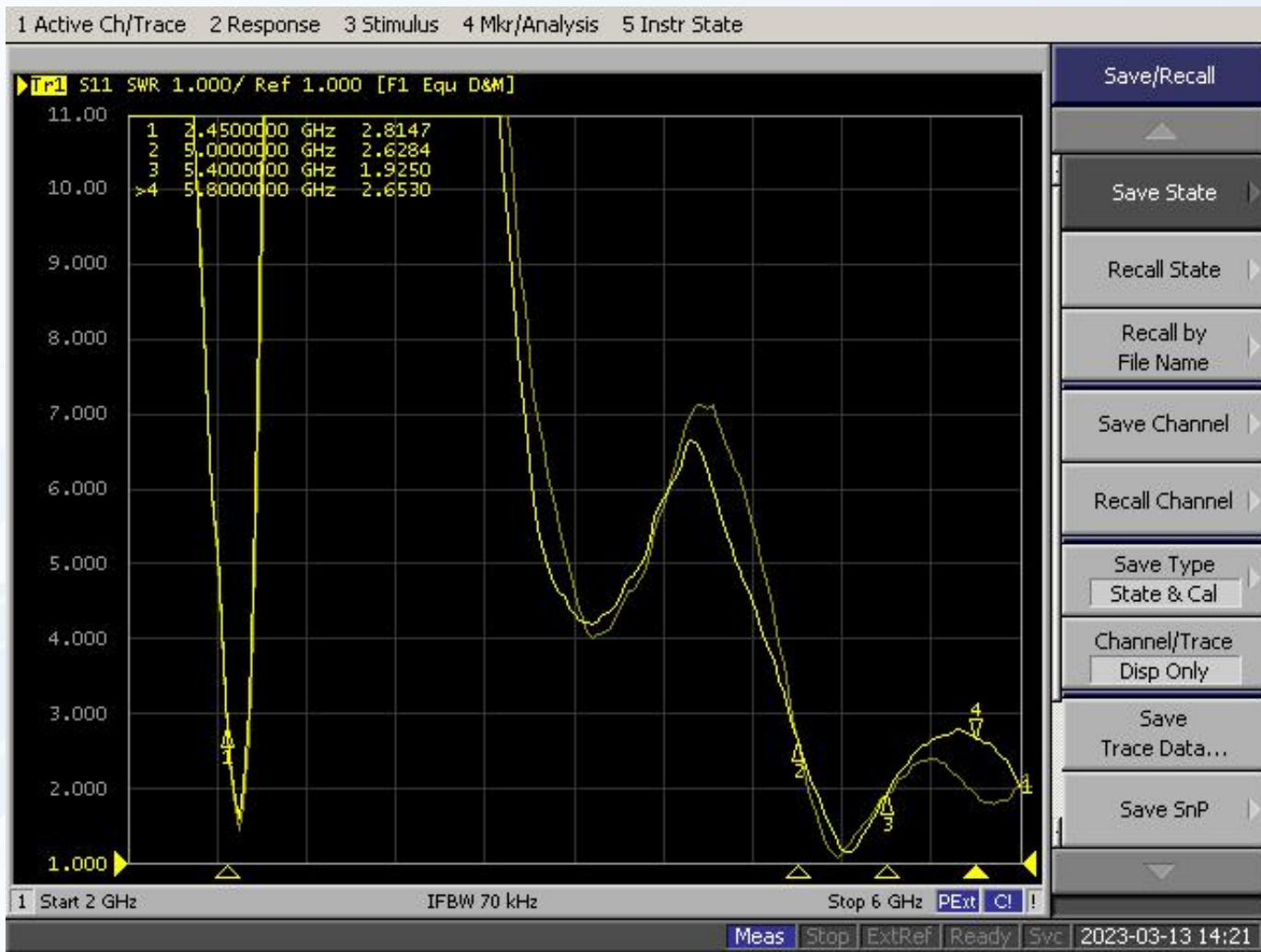
Antenna matching circuit

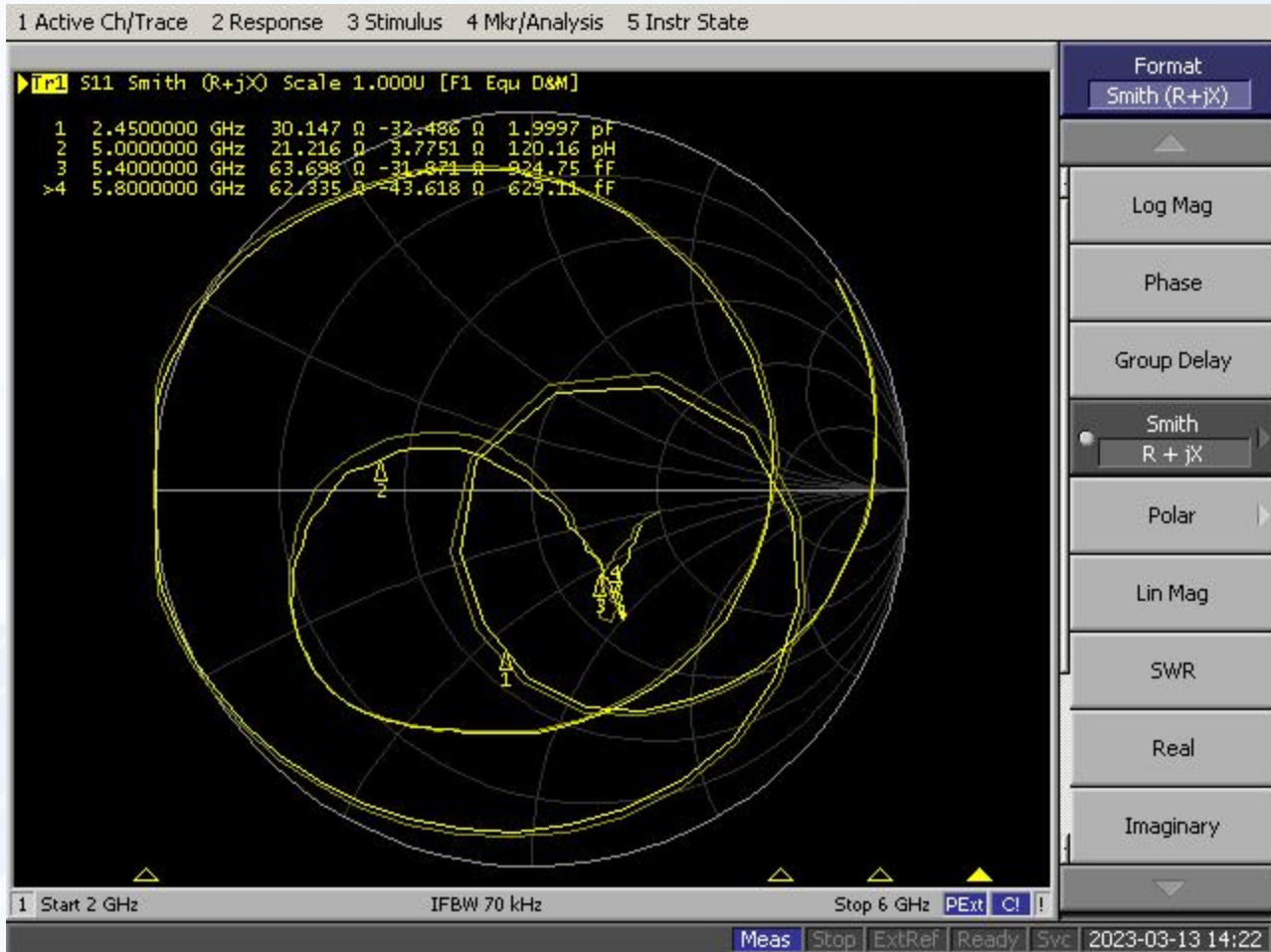


Element	Value
E1 (0201)	N/A
E2 (0201)	0 0u
E3 (0201)	N/A

No change

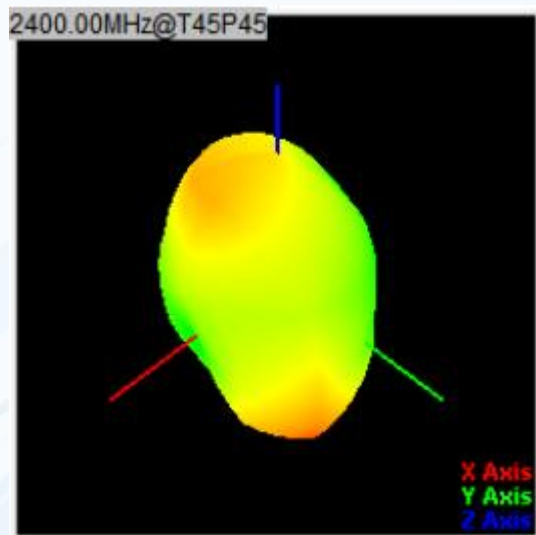
FETUKEJI											
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-5.12	-4.89	-4.68	-4.57	-4.45	-4.24	-3.99	-3.69	-3.43	-3.11	-2.86
Peak EIRP (dBm)	1.08	1.22	1.22	1.26	1.25	1.26	1.26	1.34	1.51	1.80	2.16
Directivity (dBi)	6.21	6.10	5.90	5.83	5.69	5.50	5.25	5.03	4.94	4.91	5.02
Efficiency (dB)	-5.12	-4.89	-4.68	-4.57	-4.45	-4.24	-3.99	-3.69	-3.43	-3.11	-2.86
Efficiency (%)	30.70	32.40	34.00	34.90	35.90	37.70	39.90	42.70	45.40	48.80	51.70
Gain (dBi)	1.08	1.22	1.22	1.26	1.25	1.26	1.26	1.34	1.51	1.80	2.16
NHPRP \pm Pi/4 (dBm)	-7.51	-7.33	-7.17	-7.12	-7.01	-6.76	-6.48	-6.14	-5.79	-5.43	-5.18
NHPRP \pm Pi/6 (dBm)	-9.40	-9.25	-9.13	-9.09	-9.00	-8.76	-8.47	-8.14	-7.76	-7.40	-7.13
NHPRP \pm Pi/8 (dBm)	-12.83	-12.76	-12.79	-12.81	-12.81	-12.58	-12.25	-11.95	-11.46	-11.09	-10.78
Upper Hem. PRP (dBm)	-8.37	-7.97	-7.59	-7.31	-7.08	-6.78	-6.47	-6.14	-5.91	-5.63	-5.32
Lower Hem. PRP (dBm)	-7.91	-7.83	-7.79	-7.87	-7.88	-7.78	-7.60	-7.35	-7.04	-6.69	-6.51
Upper Hem. PRP (%)	14.54	15.96	17.40	18.59	19.60	20.99	22.56	24.32	25.62	27.38	29.39
Lower Hem. PRP (%)	16.19	16.49	16.65	16.33	16.30	16.68	17.38	18.41	19.79	21.43	22.36



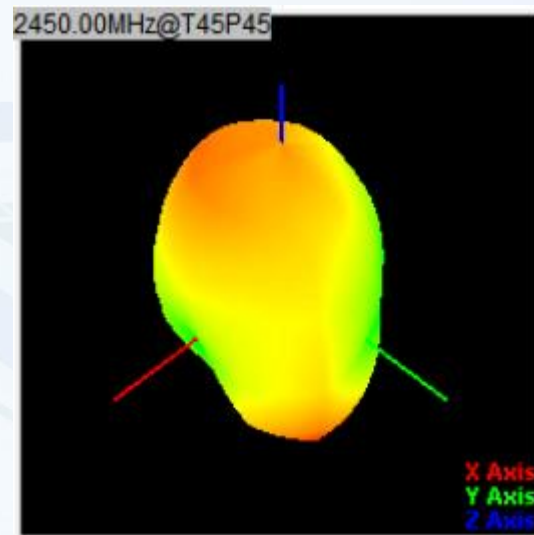


3D pattern

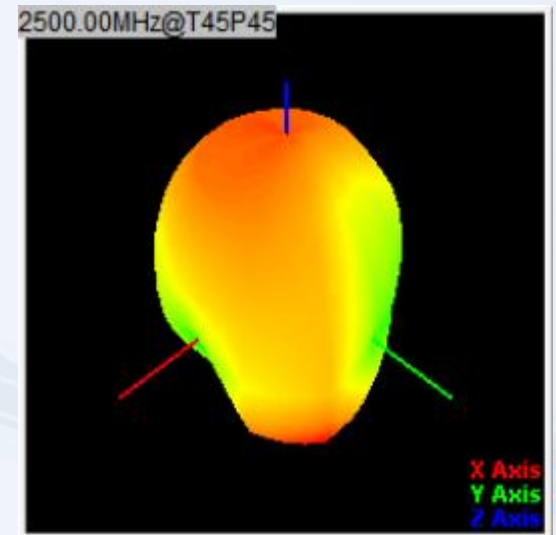
2400MHZ



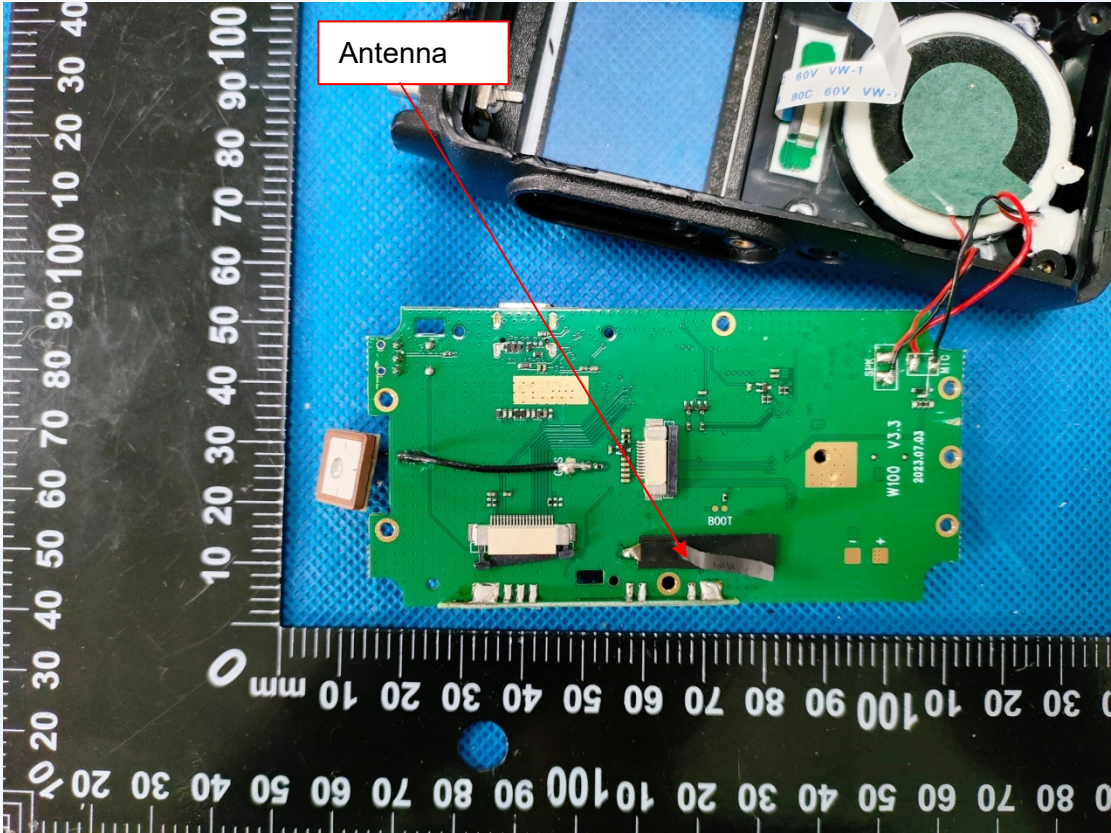
2450MHZ



2500MHZ



Bluetooth antenna size diagram



THANKS!

