

Shenzhen Shanghai Communication Technology Co., LTD

Antenna test report

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

Sevvey-to far, dimension to

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

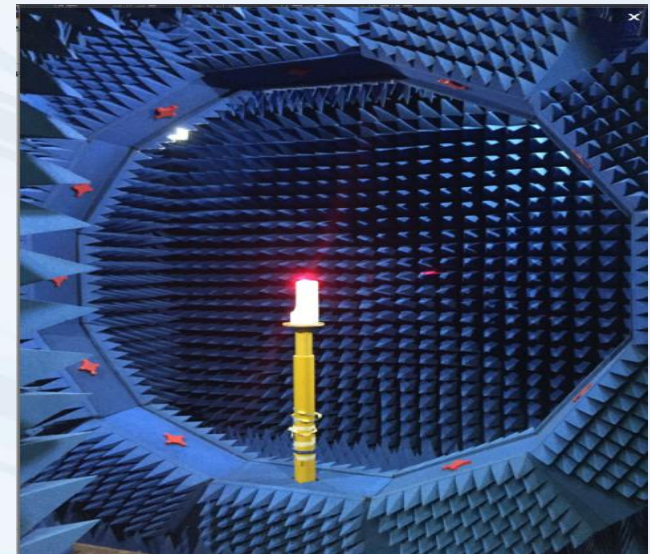
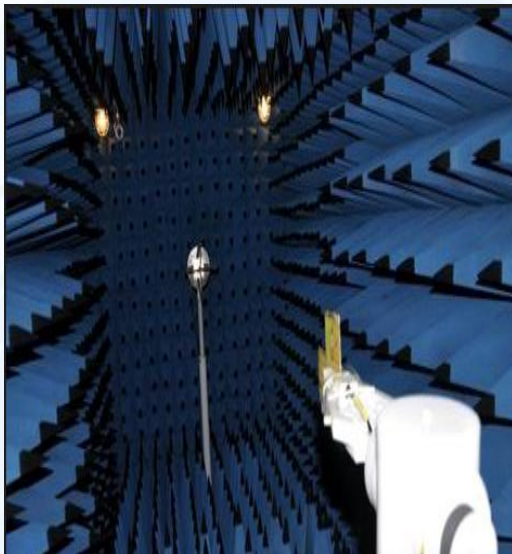


Project commissioning brief

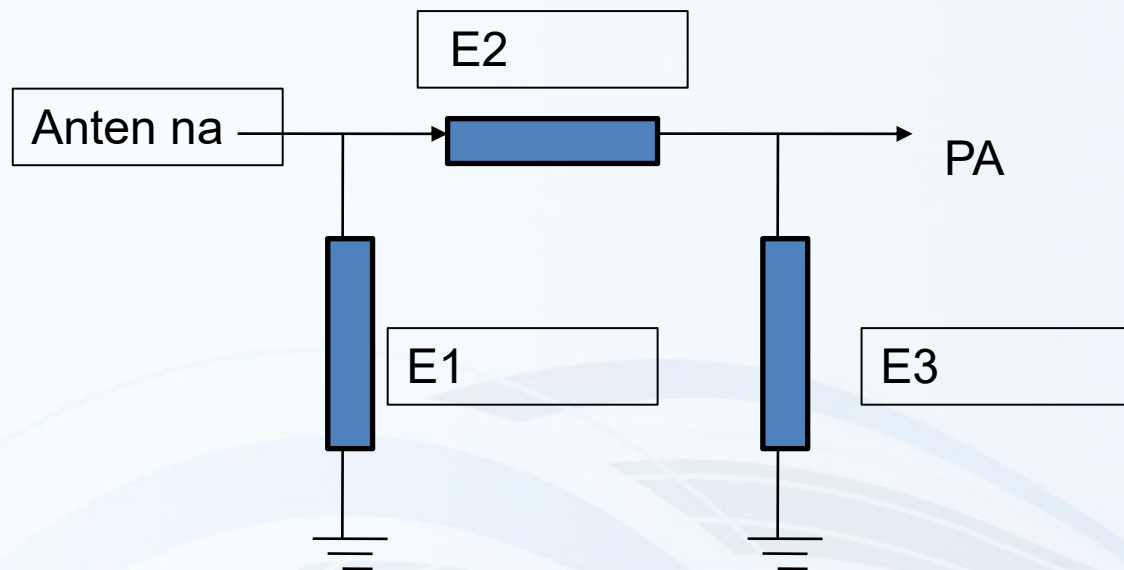
type							
Version / platform							
Antenna profile	mai n ante nna		Antenna band	Antenn a state	Antenn a debugg ing form	Antenna design area	Whet her the matc h is chan ged
	Othe r ante nna	WIFI/BT	2.4G				

Report version feed

edition	date	Content overview
V1	20240402	test report



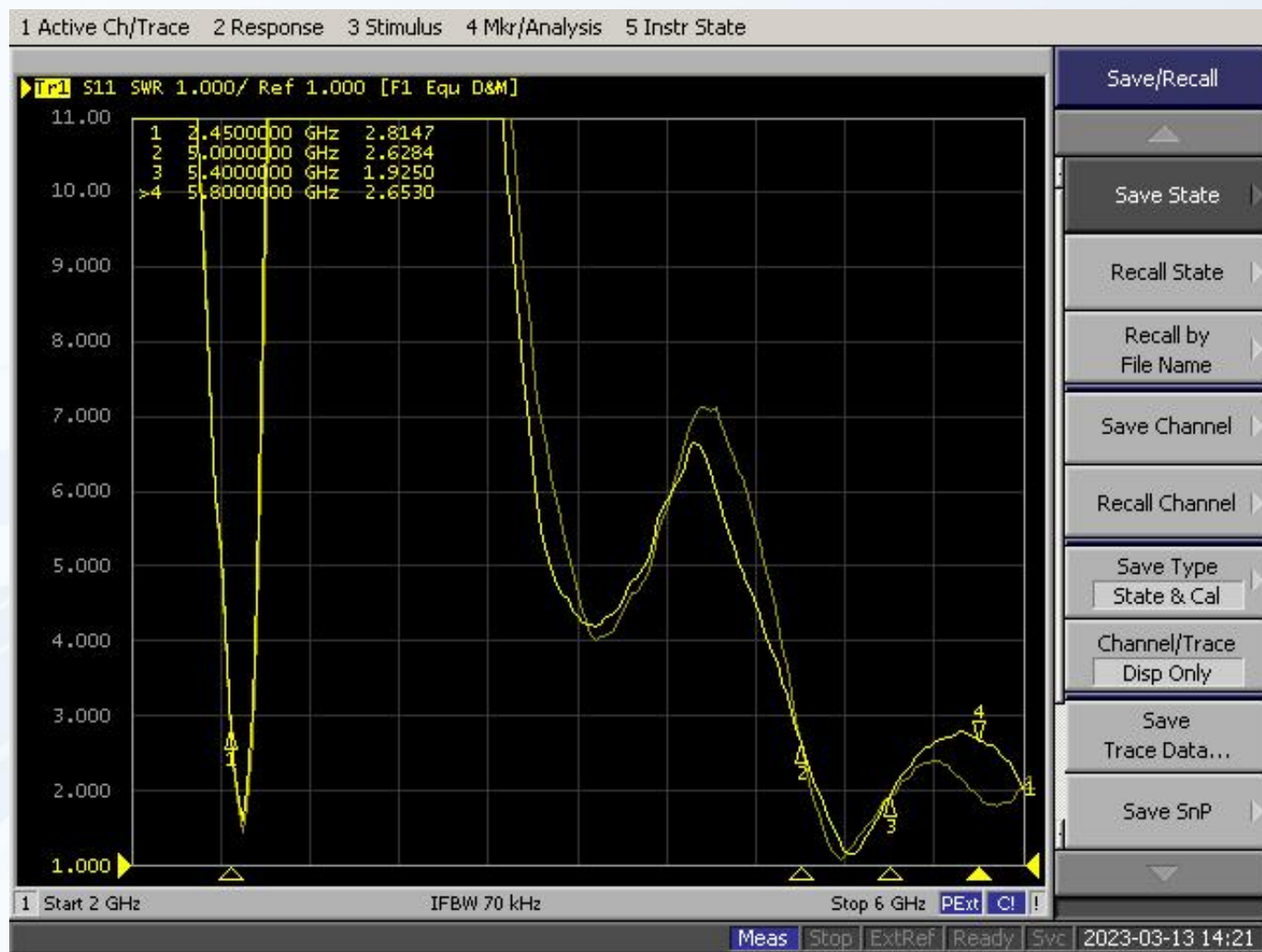
Antenna matching circuit

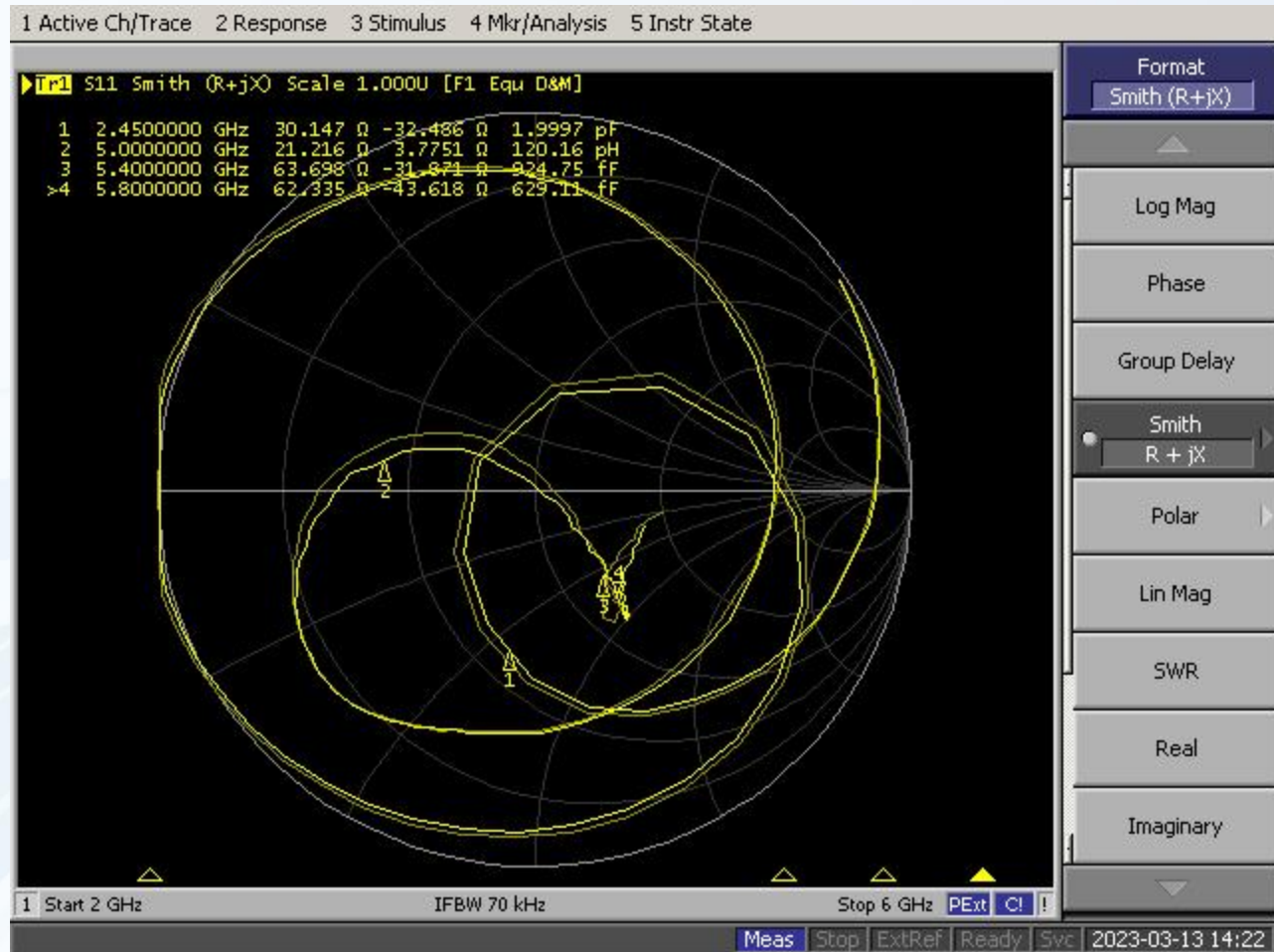


Element	Value
E1 (0201)	N/A
E2 (0201)	0 0u
E3 (0201)	N/A

No change

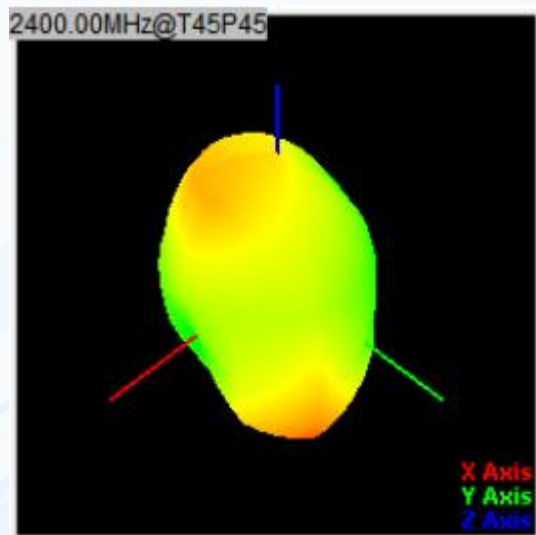
FETUKEJI											
Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Point Values											
Ant. Port Input Pwr. (dBm)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tot. Rad. Pwr. (dBm)	-5.12	-4.89	-4.68	-4.57	-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



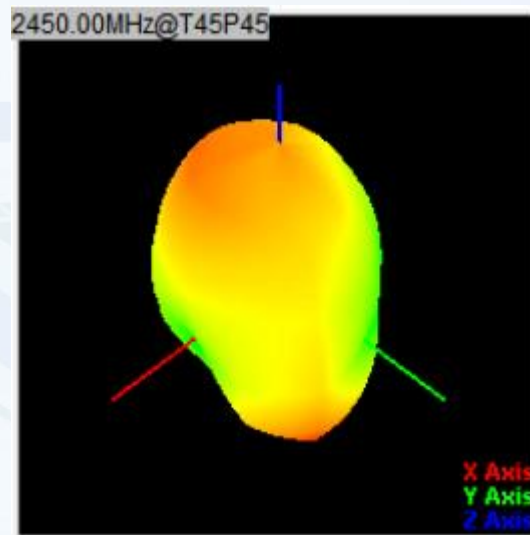


3D pattern

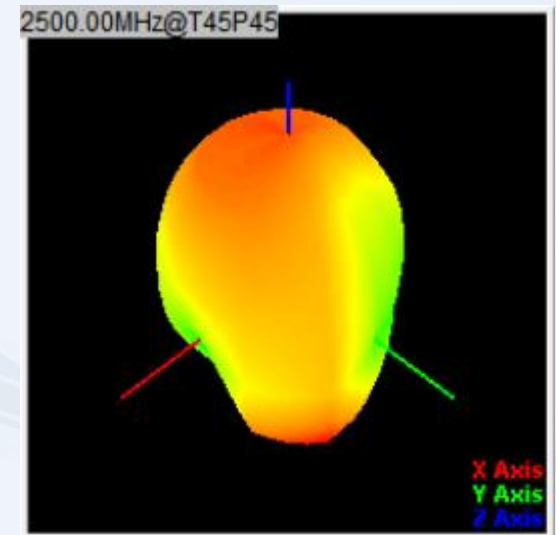
2400MHZ



2450MHZ

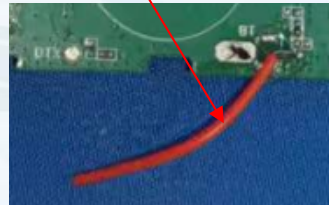


2500MHZ



Bluetooth antenna size diagram

Antenna



THANKS!

