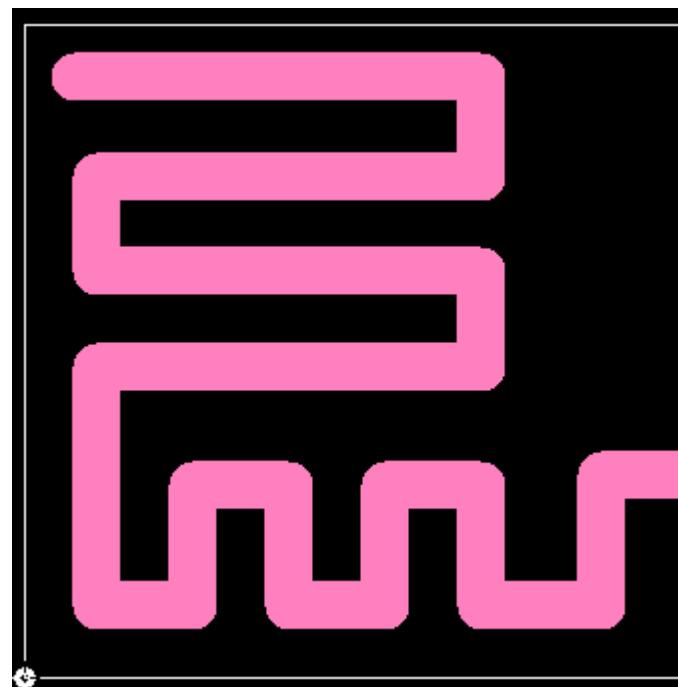


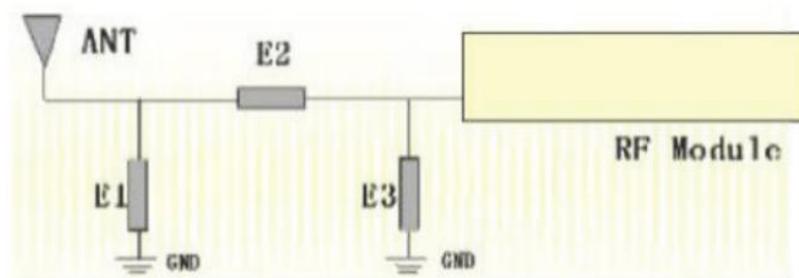
## ***Antenna test report***

Project name	
Customer	BYM
test frequency	BT (2. 4G)
Antenna material	PVB
Product name	BAND
Material Science	Metal
Testers	liuq ingyun
Consulting phone	
date	2023. 6. 21

## ***Antenna appearance (total length: 31mm)***



## ***Antenna circuit matching description***



matching	parameter
E1(0402)	10nH
E2(0402)	1pF
E3(0402)	3.9nH

## SWR and Return loss

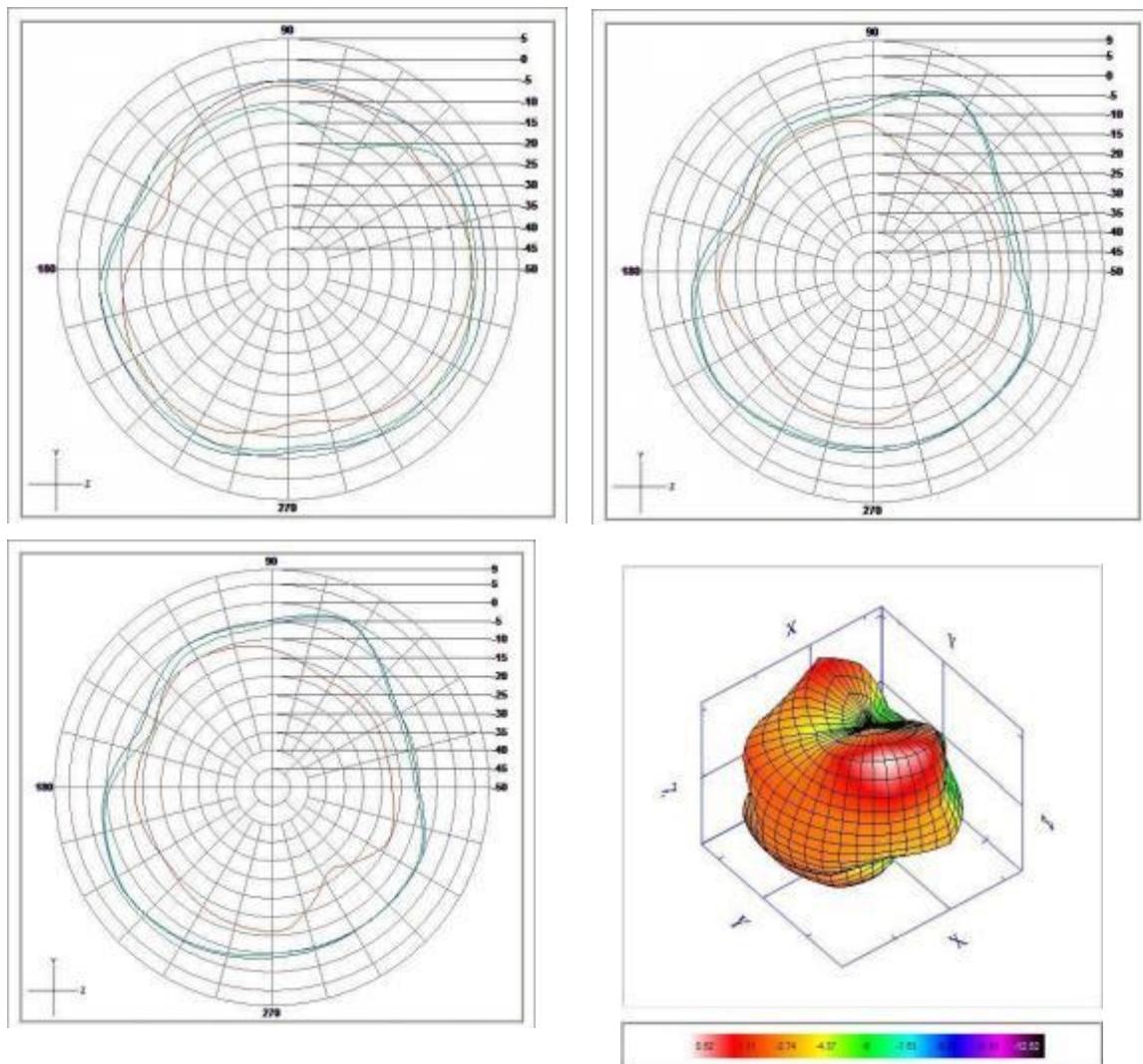


SWR



Return loss

## ***Radiation Pattern***



## Antenna efficiency and Gain

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)	-5.10	-5.11	-5.30	-5.48	-5.58	-5.57	-5.56	-5.46	-5.49	-5.41	-5.10
Peak ERP (dBm)	-0.88	-0.84	-1.02	-1.11	-1.23	-1.17	-1.08	-0.94	-0.86	-0.81	-0.48
Directivity (dBi)	4.22	4.27	4.29	4.37	4.35	4.40	4.47	4.52	4.64	4.60	4.62
Efficiency (dB)	-5.10	-5.11	-5.30	-5.48	-5.58	-5.57	-5.56	-5.46	-5.49	-5.41	-5.10
Efficiency (%)	30.90	30.90	29.50	28.30	27.70	27.70	27.80	28.50	28.20	28.80	30.90
Gain (dBi)	-0.88	-0.84	-1.02	-1.11	-1.23	-1.17	-1.08	-0.94	-0.86	-0.81	-0.48
NHPRP ±Pi/4 (dBm)	-6.23	-6.23	-6.48	-6.63	-6.72	-6.65	-6.49	-6.27	-6.26	-6.17	-5.91
NHPRP ±Pi/6 (dBm)	-7.63	-7.63	-7.88	-8.03	-8.13	-8.06	-7.91	-7.68	-7.68	-7.60	-7.34
NHPRP ±Pi/8 (dBm)	-9.72	-9.73	-9.95	-10.13	-10.22	-10.16	-10.02	-9.80	-9.81	-9.74	-9.49
Upper Hem. PRP (dBm)	-8.90	-8.92	-9.12	-9.30	-9.40	-9.41	-9.41	-9.35	-9.41	-9.34	-9.05
Lower Hem. PRP (dBm)	-7.44	-7.44	-7.63	-7.81	-7.91	-7.88	-7.86	-7.74	-7.75	-7.66	-7.35
Upper Hem. PRP (%)	12.88	12.83	12.24	11.75	11.48	11.45	11.44	11.62	11.46	11.64	12.45
Lower Hem. PRP (%)	18.02	18.03	17.25	16.54	16.20	16.29	16.39	16.84	16.78	17.12	18.42