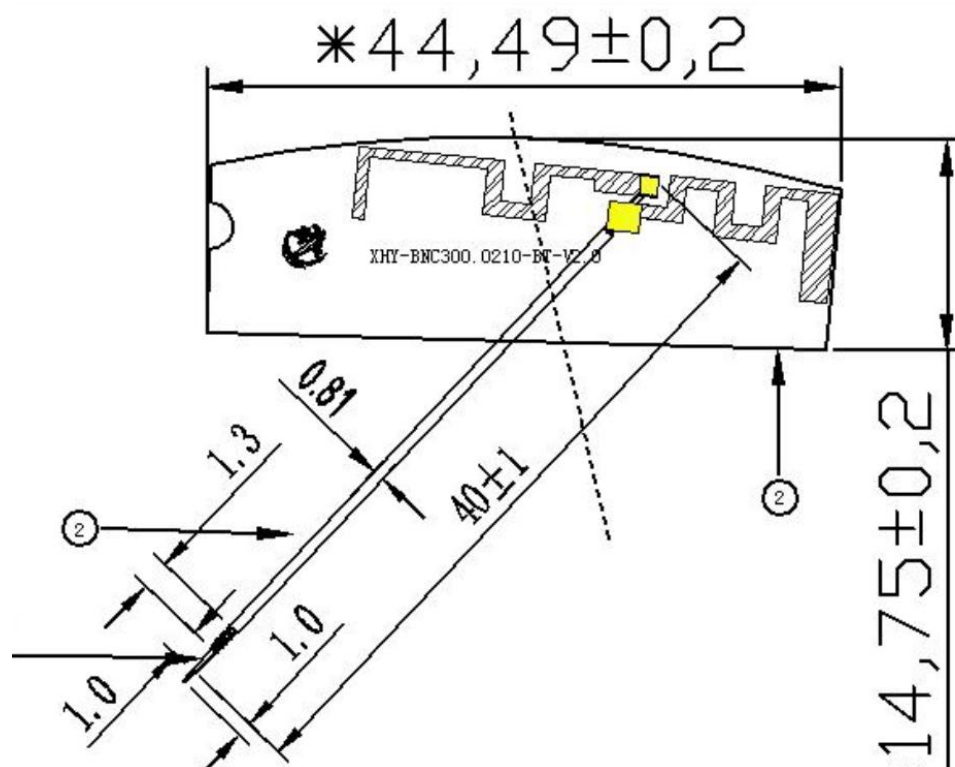




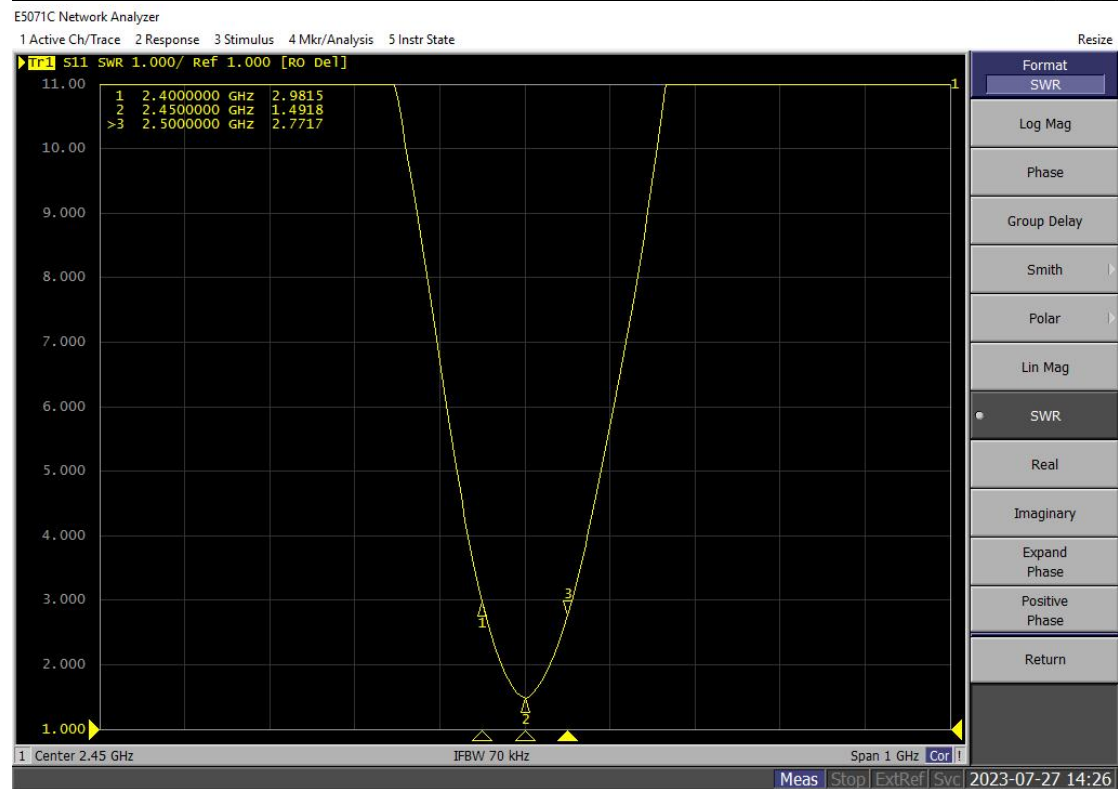
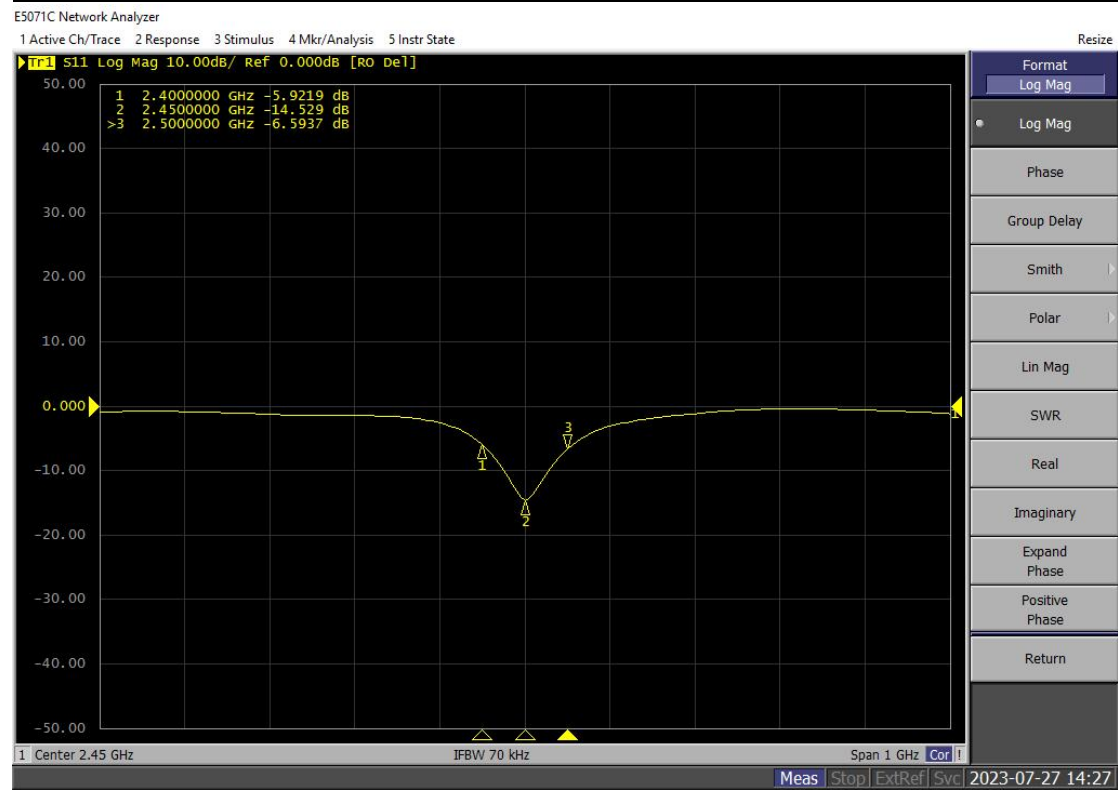
2. 2 Product electrical performance test data

2. 21 Test environment and equipment

Test environment: temperature: $10^{\circ}\text{C} \text{---} +30^{\circ}\text{C}$ Relative humidity: $\leq 80\% (+40^{\circ}\text{C})$	Test equipment: Network analyzer KEYSIGHT E5071C Multiprobe microwave darkroom
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4. 22. 1 Product electrical performance test data:

Marker (MHZ)	2400	2450	2500
Returnloss	-5.9	-14.5	-6.5
VSWR	2.9	1.4	2.7



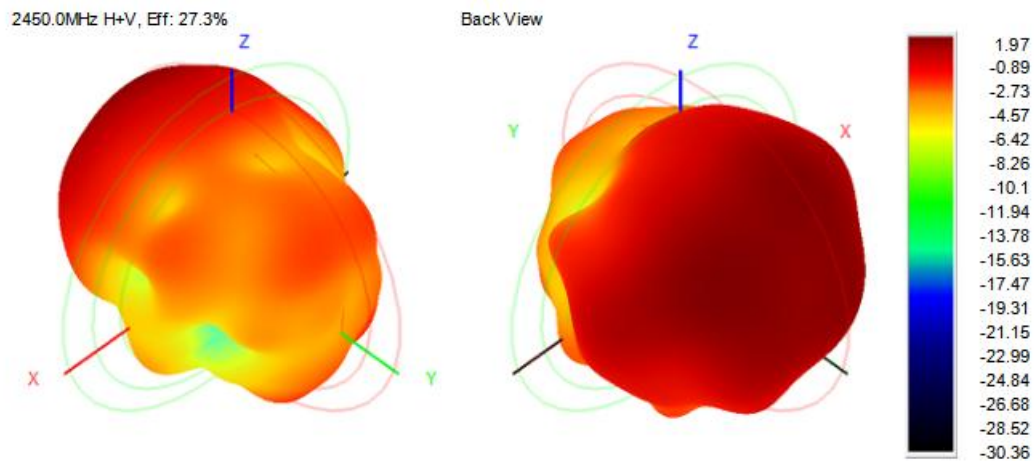
2. 22. 2 Gain, efficiency, and radiation direction maps



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Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	-4.25	-3.91	-2.37	-0.88	0.98	1.97	1.89	0.50	0.16	-0.08	-2.06
Efficien (%)	23.9	25.2	26.1	26.9	27.2	27.3	26.3	24.3	22.4	20.4	19.4

2450MHz Directional Diagram:



Gain graph

