

Antenna test report

Customer Name:802

Project model:S1116A4543

Date:2024-03-07

edition	content	Update reason	Date
1.0	Antenna test	Initial issue	2024-03-07

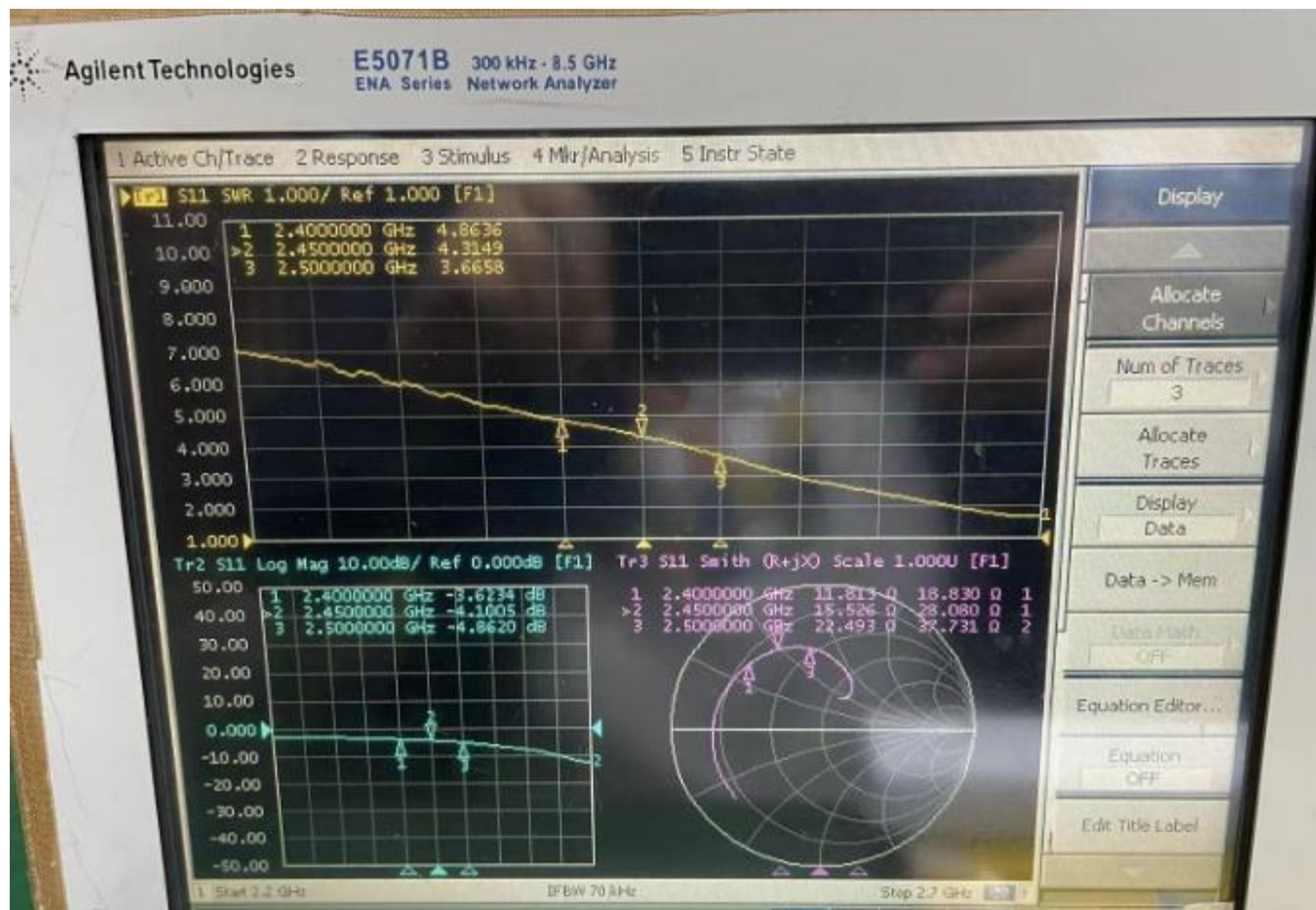
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8. New antenna passive data	...
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Project situation

Customer Name	802
Project name	S1116A4543
Number of antennas	1
Antenna band	2400–2500MHz
Structural form	Onboard antenna

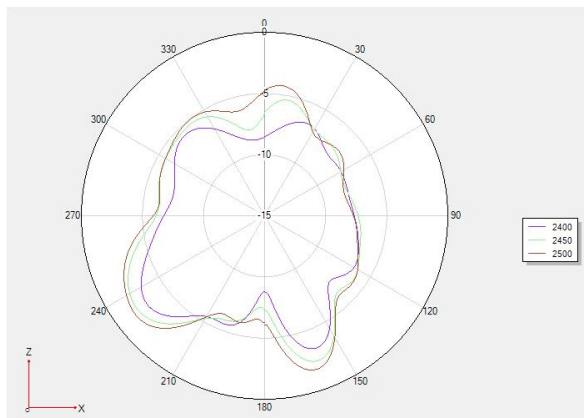




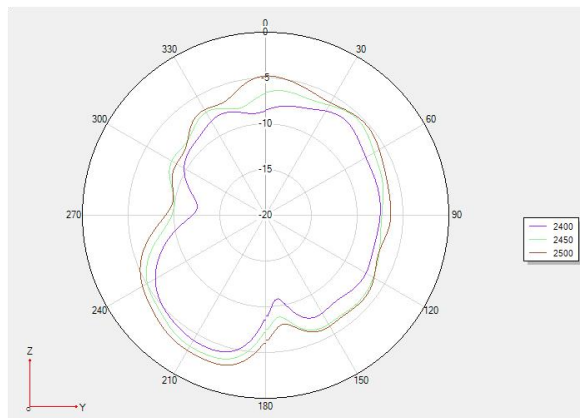
Frequency	Efficiency / %	Gain/ dBi
2400MHz	19.21	-1.81
2410MHz	20.43	-1.57
2420MHz	21.23	-1.19
2430MHz	21.94	-1.13
2440MHz	23.85	-0.8
2450MHz	24.29	-0.64
2460MHz	24.51	-0.52
2470MHz	25.44	-0.05
2480MHz	36.41	0.05
2490MHz	26.55	0.14
2500MHz	28.58	0.27

2D3D image of the original antenna test

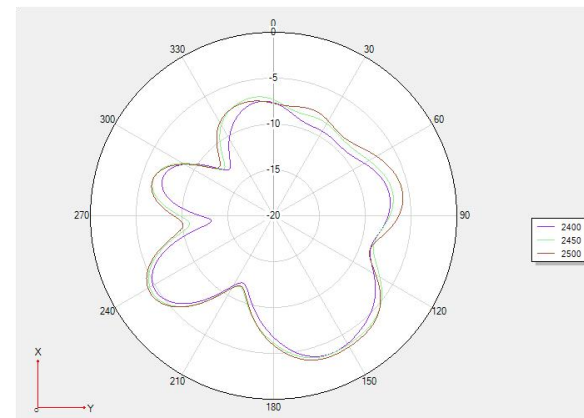
Phi 0 2Dfigure



Phi 90 2Dfigure

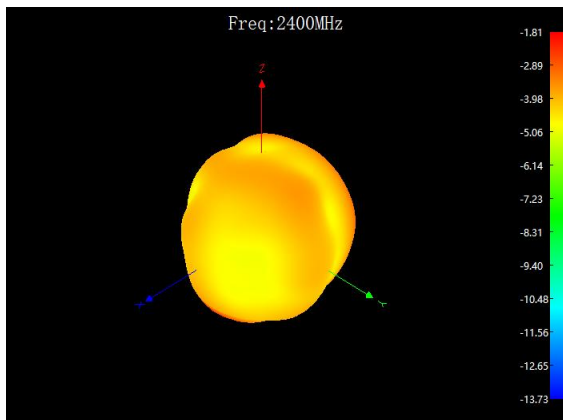


Theta 90 2Dfigure



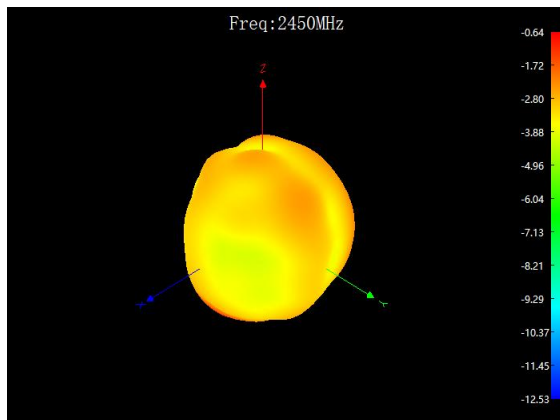
2400

Freq:2400MHz



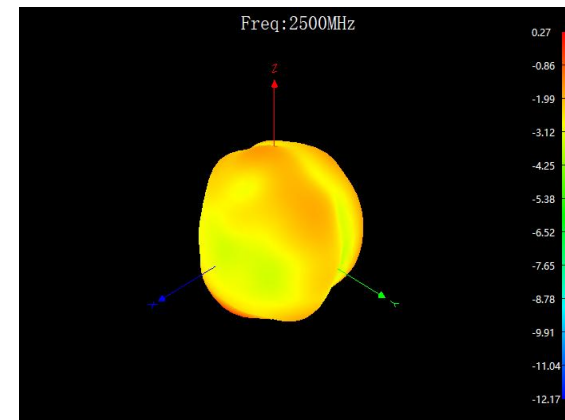
2450

Freq:2450MHz



2500

Freq:2500MHz





The R16 position string is a 2NH inductor, and the original C23 and C24 position match is removed.

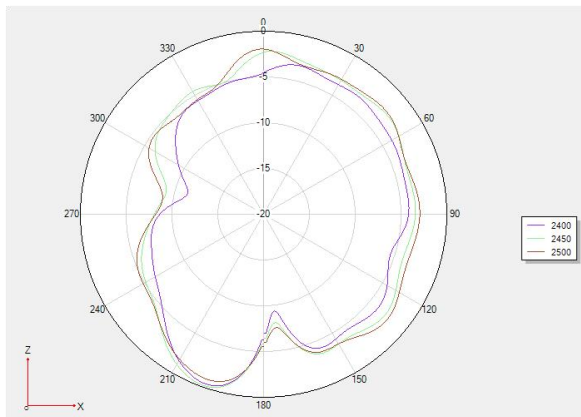
New antenna grid test diagram



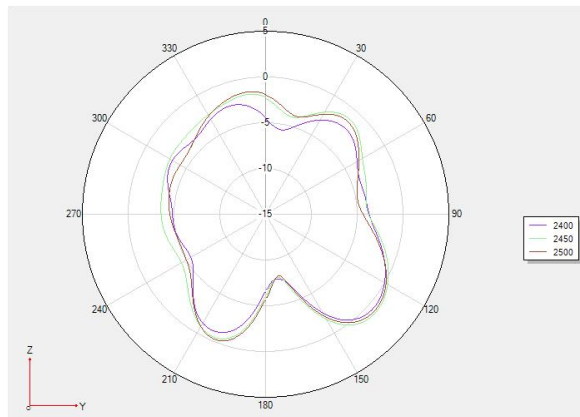
Frequency	Efficiency / %	Gain/ dBi
2400MHz	49.12	1.27
2410MHz	50.7	1.35
2420MHz	50.93	1.46
2430MHz	51.88	1.45
2440MHz	52.11	1.53
2450MHz	53.21	1.55
2460MHz	52.84	1.52
2470MHz	51.33	1.51
2480MHz	51.09	1.48
2490MHz	50.45	1.45
2500MHz	50.08	1.44

New antenna test 2D3D image

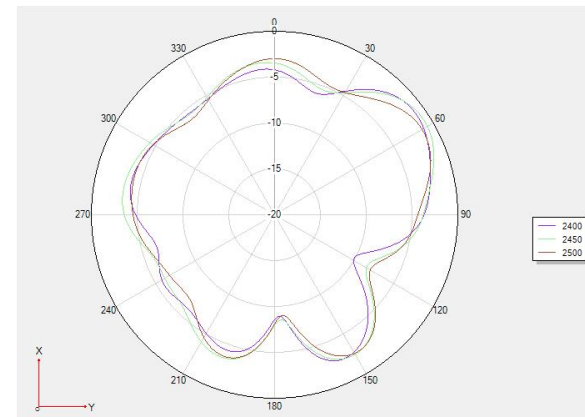
Phi 0 2Dfigure



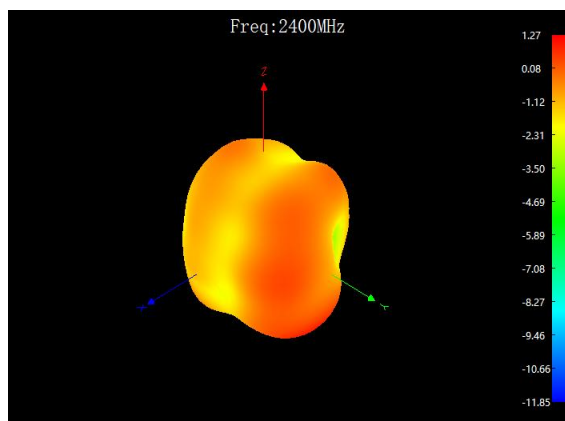
Phi 90 2Dfigure



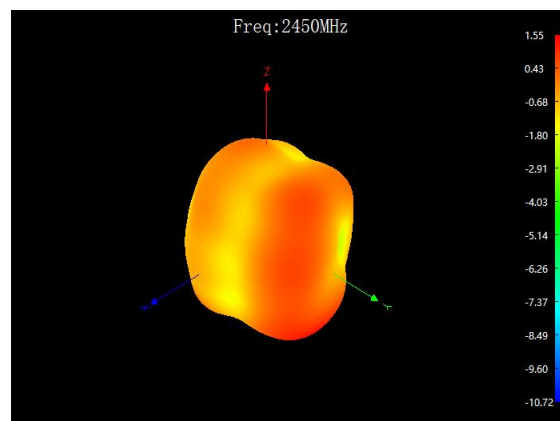
Theta 90 2Dfigure



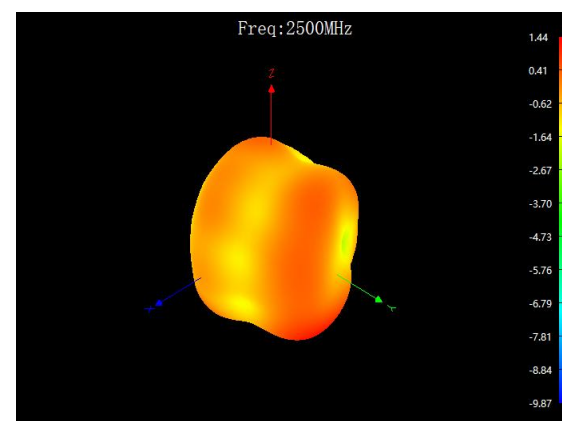
2400



2450



2500





Thank you!

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