

BT Antenna Test Report

Customer	Sunwoda	Project	Ford
Report Version	V1.0	Report Date	2024-05-09
Prepared by	Jin Qun	Checked by	Zhang Lei

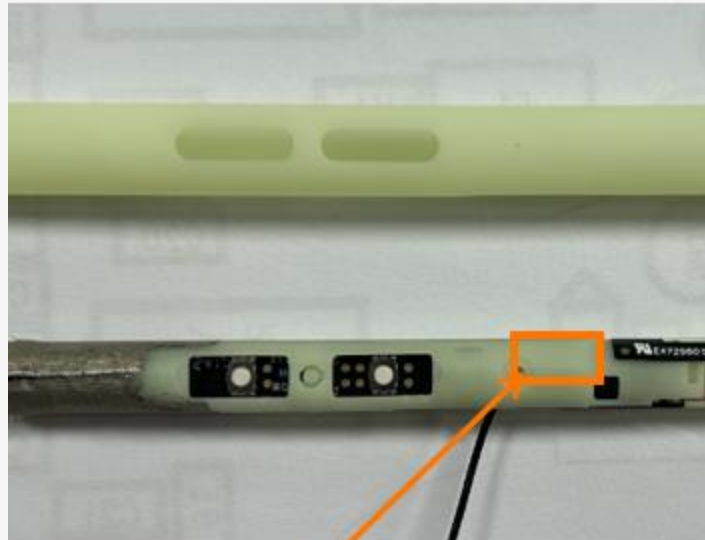
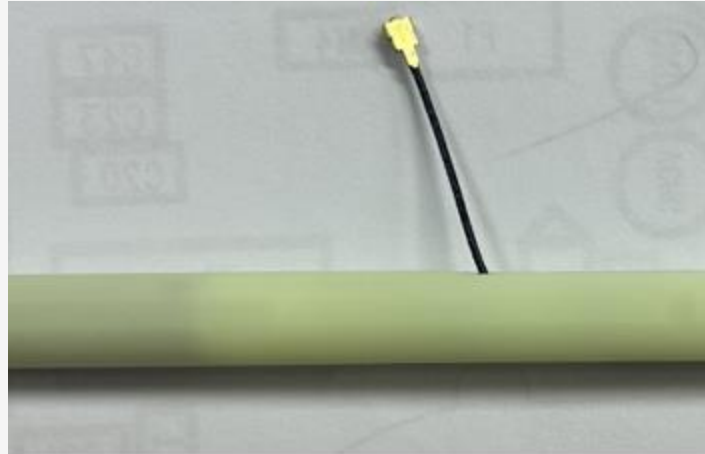


Project assessment RF overview

Product type	Active Pen		
Antenna type	3216 ceramic antenna		
Frequency band and antenna material	Main antenna		Material
	BT	2402-2480MHZ	ceramic antenna



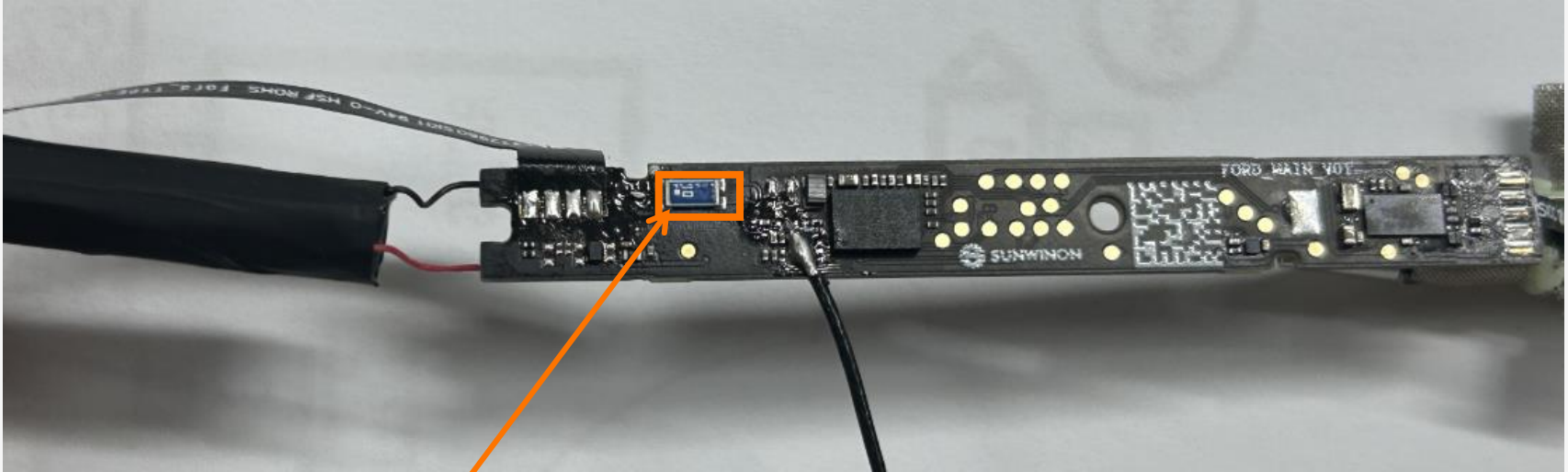
1. Test sample's antenna location



3216 ceramic antenna



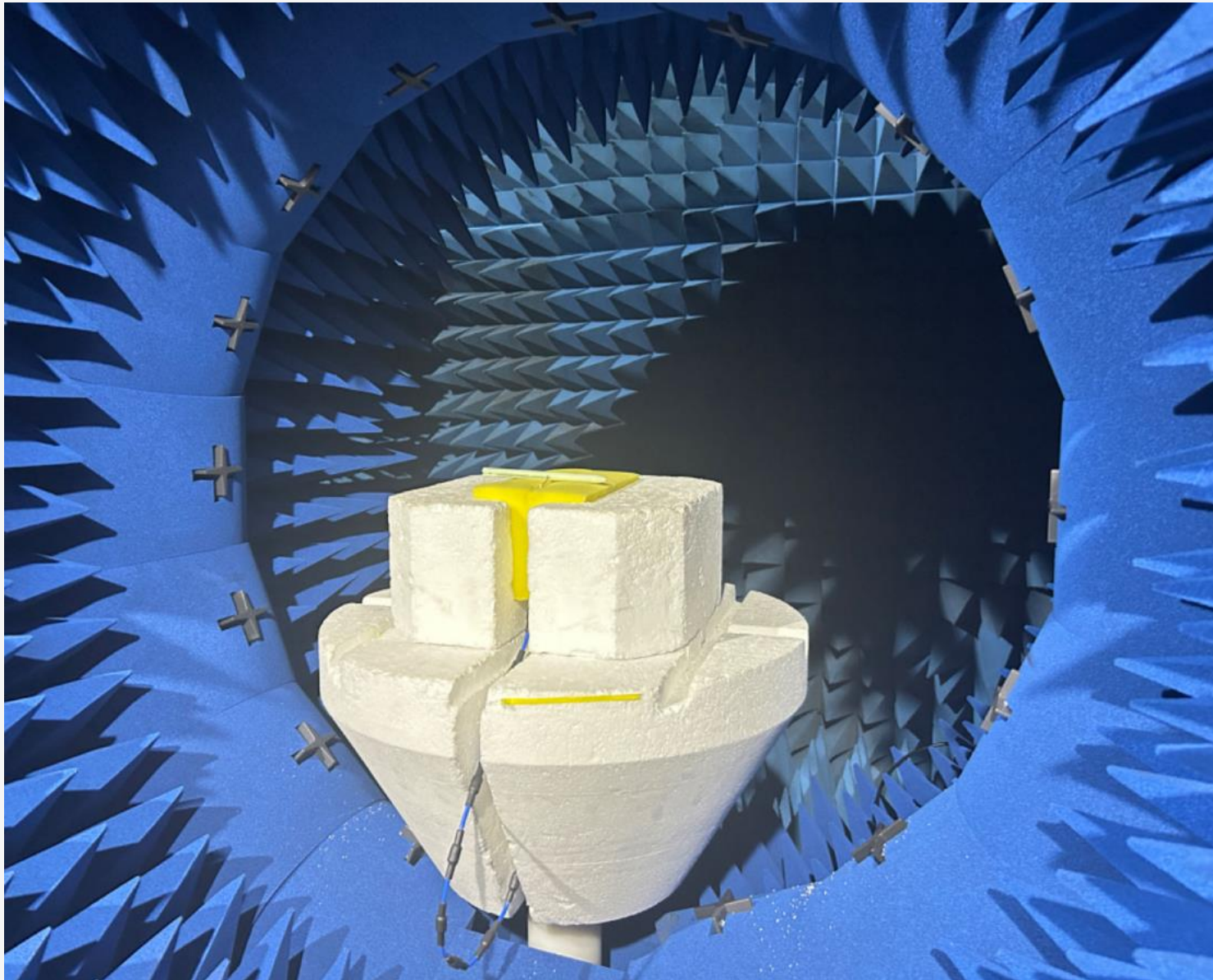
1. Test sample's antenna location



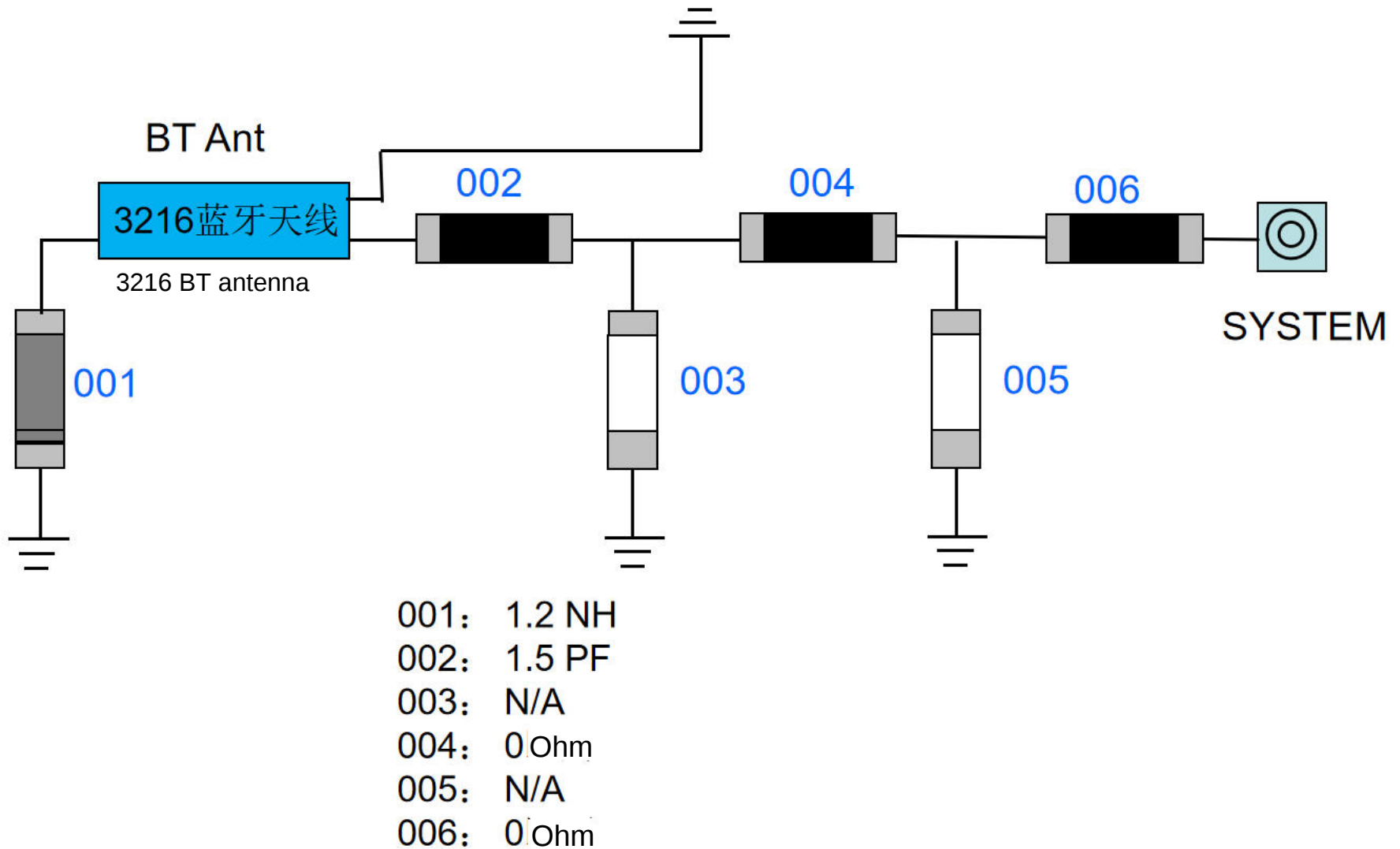
3216 ceramic antenna



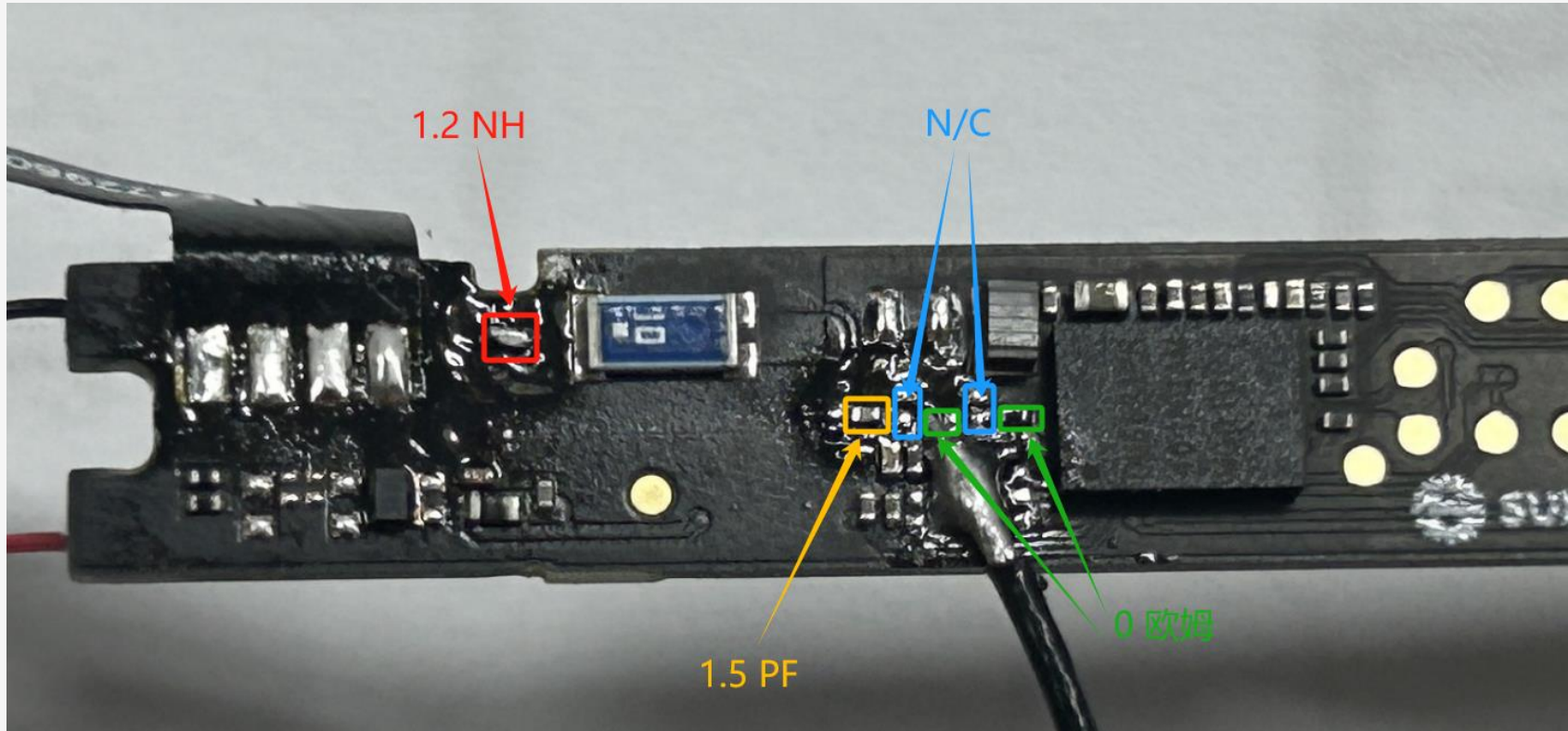
2. Test sample's position in the shielded chamber



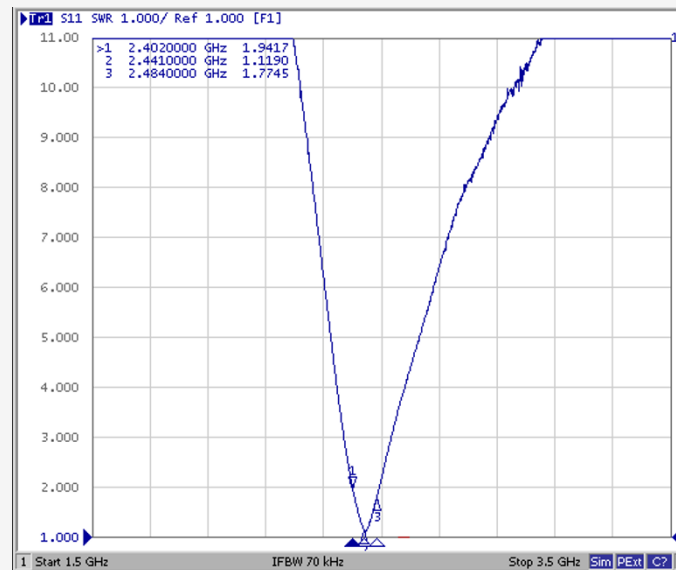
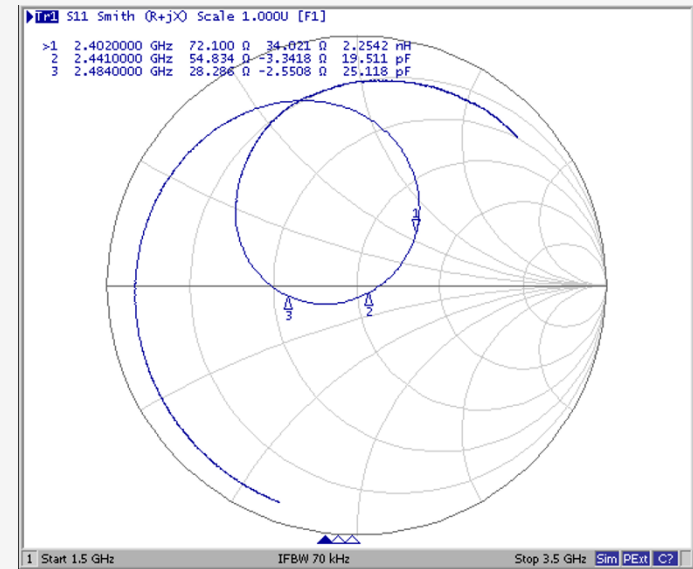
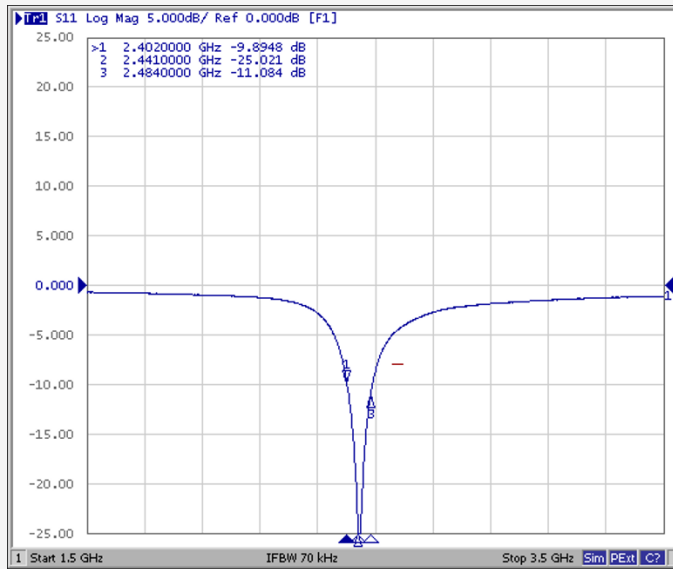
3. Circuit design



3. circuit design



4.S parameter



5. Passive efficiency

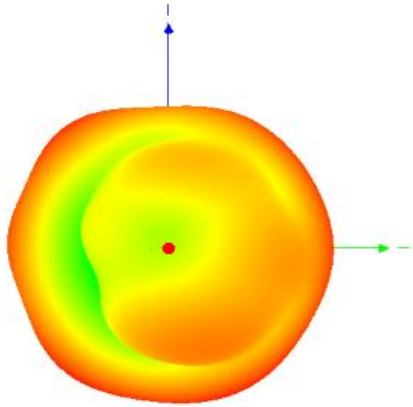
Frequency(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
2400	0.12	-3.73	42.37
2410	0.36	-3.48	44.89
2420	0.72	-3.26	47.24
2430	1.07	-3.09	49.12
2440	1.11	-3	50.16
2450	1.09	-3.03	49.79
2460	1.18	-3.11	48.9
2470	1.41	-3.12	48.75
2480	1.24	-3.29	46.93
2490	1.03	-3.55	44.13
2500	0.81	-3.75	42.16



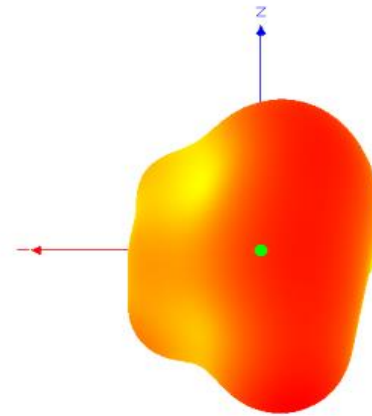
6.3D field pattern

2400MHZ

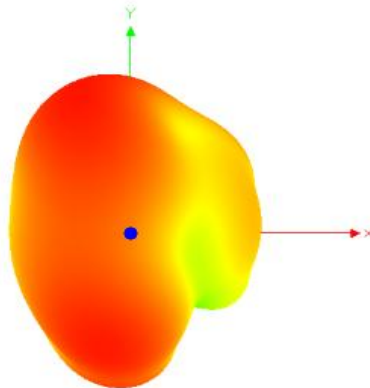
Freq: 2400MHz (XPositive)



Freq: 2400MHz (YPositive)



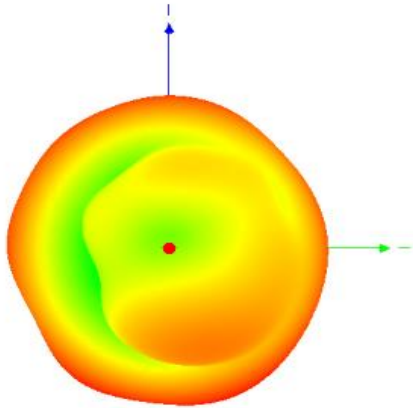
Freq: 2400MHz (ZPositive)



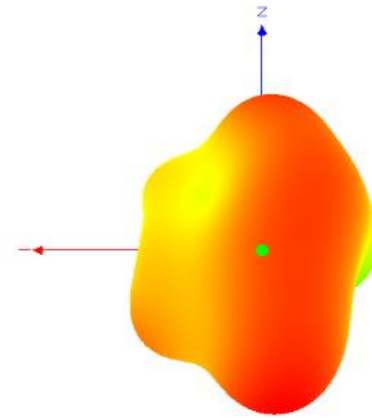
6.3D field pattern

2450MHZ

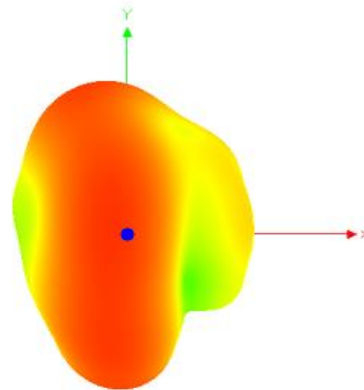
Freq: 2450MHz (XPositive)



Freq: 2450MHz (YPositive)



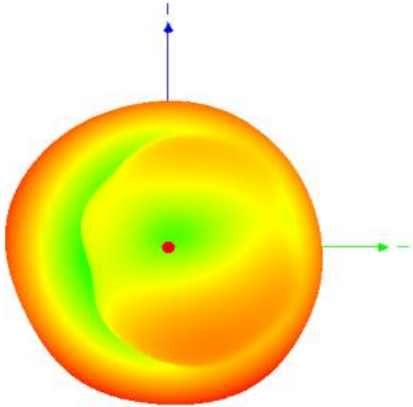
Freq: 2450MHz (ZPositive)



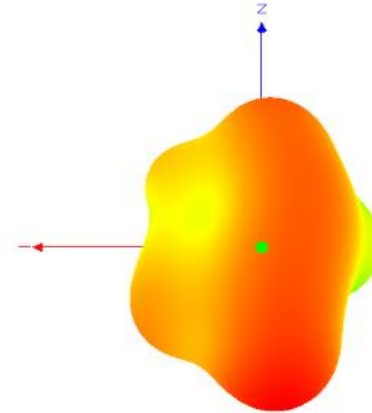
6.3D field pattern

2500MHZ

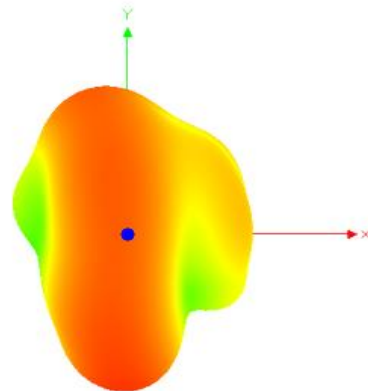
Freq: 2500MHz (XPositive)



Freq: 2500MHz (YPositive)



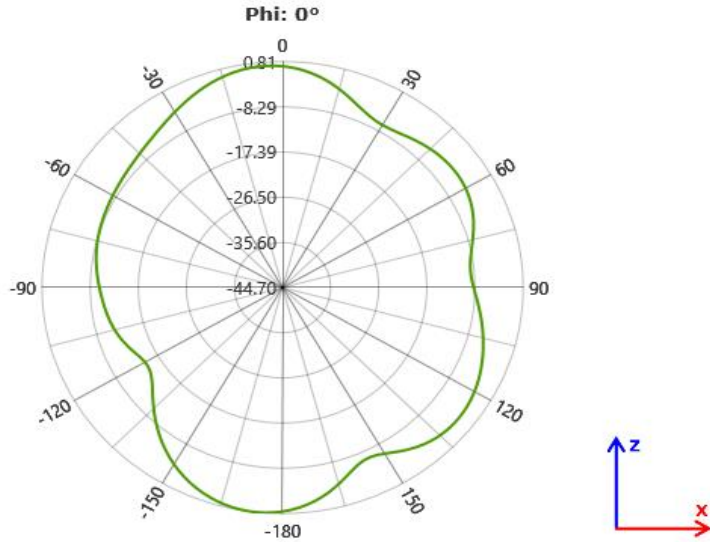
Freq: 2500MHz (ZPositive)



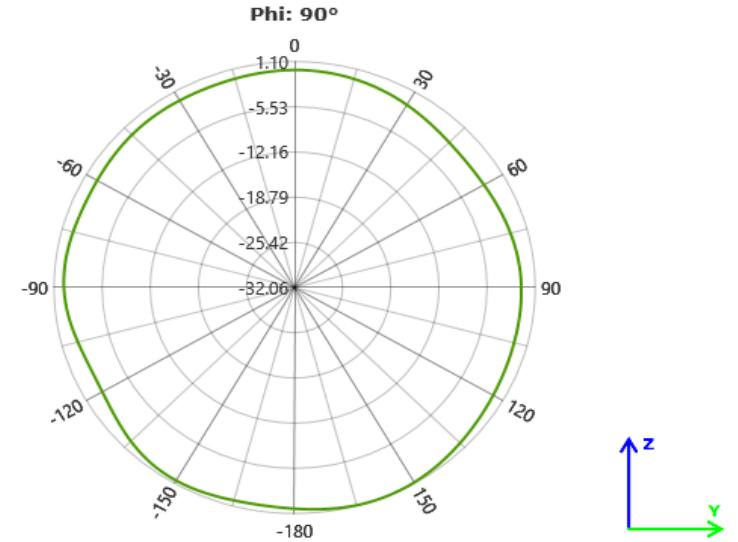
7.2D field pattern

2450MHZ

2450MHz



2450MHz



2450MHz

