

Nanjing Jiahao Technology Co., Ltd. - PCB Antenna Test Report

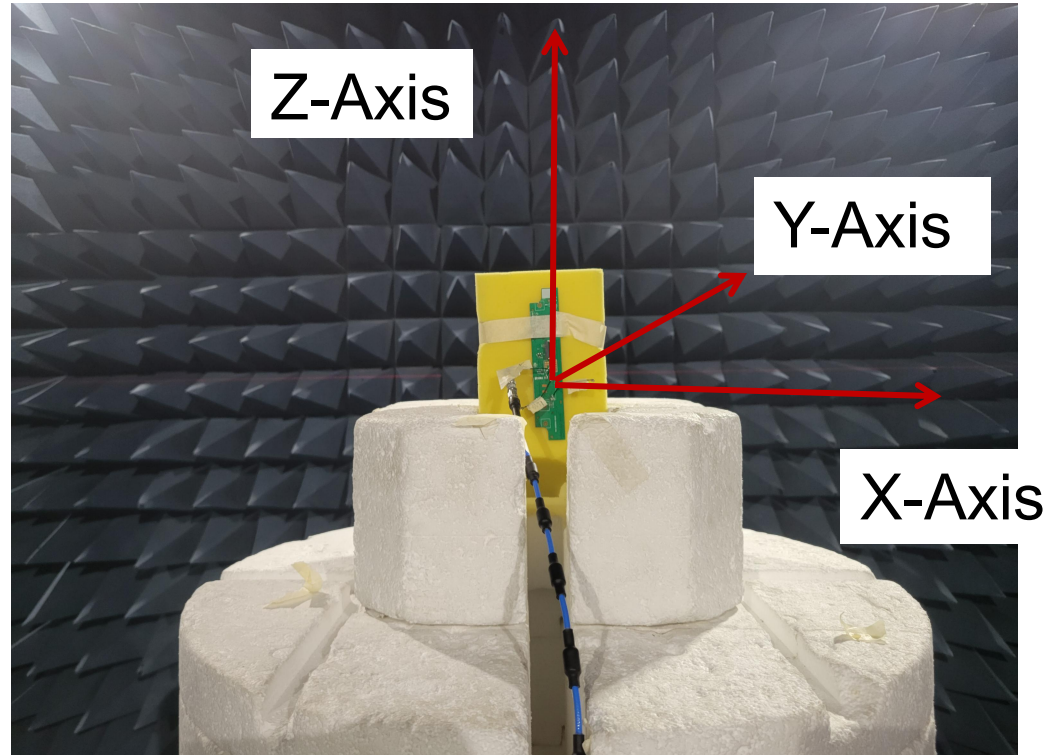
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- ☐ Project Requirements Analysis
- ☐ Passive Debugging Data

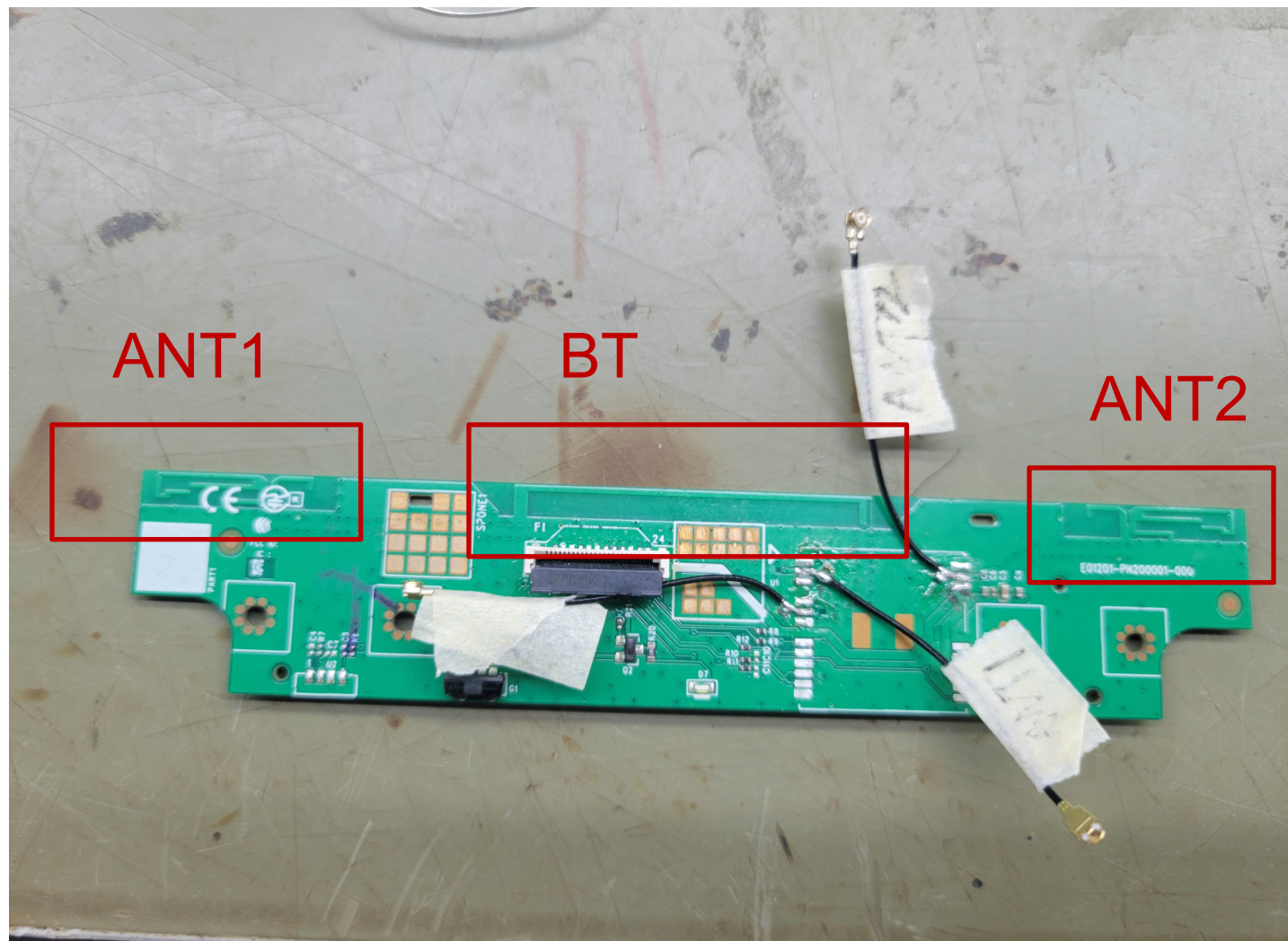
Project Requirements

- ☐ Passive Data
- ☐ Efficiency, Gain, Radiation Pattern

Antenna Anechoic Chamber Testing



Antenna Design Diagram



BT Passive Test Data: Efficiency / Gain

Frequency(MHz)	Efficiency	Efficiency . dB	Gain . dB
2400	45%	-3.45	1.62
2410	43%	-3.64	1.51
2420	42%	-3.74	1.56
2430	41%	-3.88	1.5
2440	39%	-4.1	1.38
2450	37%	-4.26	1.36
2460	36%	-4.44	1.24
2470	34%	-4.64	1.03
2480	33%	-4.82	0.79
2490	31%	-5.06	0.48
2500	29%	-5.41	0.08

WiFi ANT1 Passive Test Data: Efficiency / Gain



Frequency(MHz)	Efficiency	Efficiency . dB	Gain . dB
2400	43.05%	-3.66	2.49
2410	44.69%	-3.5	3.07
2420	45.32%	-3.44	3.25
2430	46.15%	-3.36	3.35
2440	45.72%	-3.4	3.18
2450	44.18%	-3.55	2.94
2460	41.87%	-3.78	2.66
2470	39.87%	-3.99	2.49
2480	37.96%	-4.21	2.34
2490	35.48%	-4.5	1.92
2500	33.05%	-4.81	1.42
5150	37.79%	-4.23	4.15
5200	36.39%	-4.39	4.57
5250	35.62%	-4.48	5.02
5300	34.32%	-4.64	4.76
5350	34.32%	-4.64	4.54
5400	33.86%	-4.7	4.72
5450	35.86%	-4.45	4.41
5500	36.53%	-4.37	4.66
5550	39.54%	-4.03	5.03
5600	42.92%	-3.67	4.71
5650	46.97%	-3.28	4.13
5700	49.87%	-3.02	4.67
5750	51.94%	-2.85	4.99
5800	53.16%	-2.74	4.07
5850	53.82%	-2.69	4.33

WiFi ANT2 Passive Test Data: Efficiency / Gain

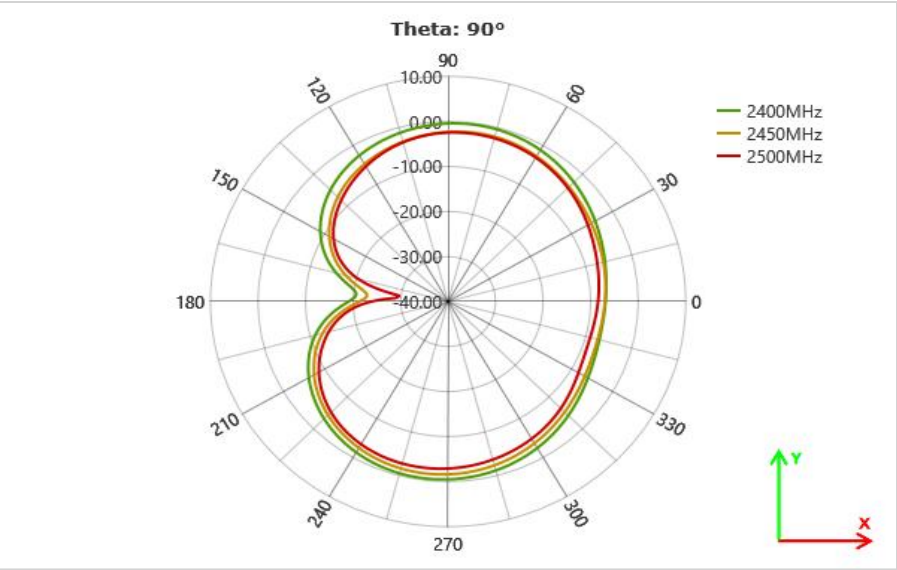


Frequency(MHz)	Efficiency	Efficiency . dB	Gain . dB
2400	40.96%	-3.88	0.11
2410	44.77%	-3.49	0.21
2420	46.68%	-3.31	0.01
2430	48.33%	-3.16	0.24
2440	49.27%	-3.07	0.44
2450	48.63%	-3.13	0.33
2460	47.05%	-3.27	0.1
2470	45.47%	-3.42	-0.06
2480	43.88%	-3.58	-0.18
2490	41.87%	-3.78	-0.38
2500	39.16%	-4.07	-0.47
5150	40.28%	-3.95	1.45
5200	37.79%	-4.23	1.52
5250	36.33%	-4.4	1.94
5300	36.21%	-4.41	2.42
5350	36.01%	-4.44	2.66
5400	37.01%	-4.32	3.34
5450	40.82%	-3.89	3.88
5500	42.23%	-3.74	5.13
5550	46.45%	-3.33	4.40
5600	52.36%	-2.81	5.03
5650	56.64%	-2.47	4.38
5700	61.63%	-2.1	4.73
5750	64.16%	-1.93	4.67
5800	67.03%	-1.74	4.52
5850	67.54%	-1.7	4.48

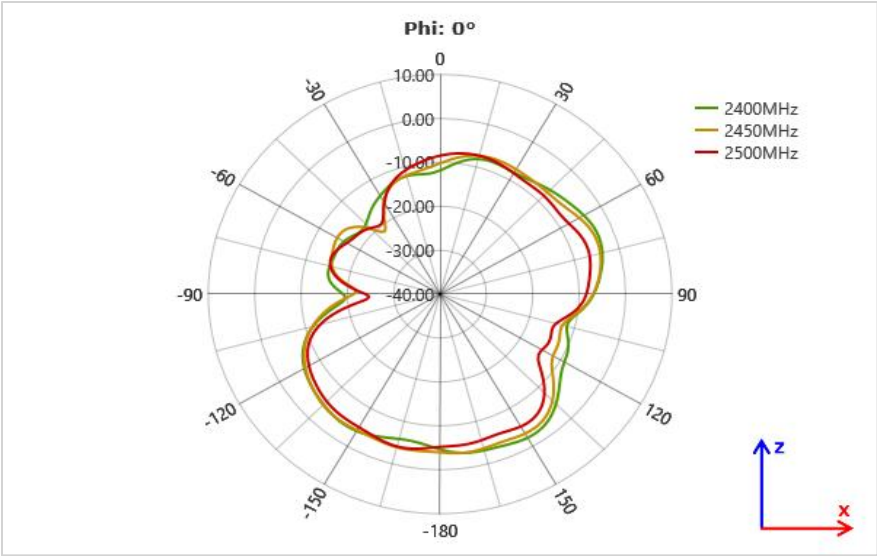
BT Passive Test Data: 2D Radiation Pattern / 3D Radiation Pattern



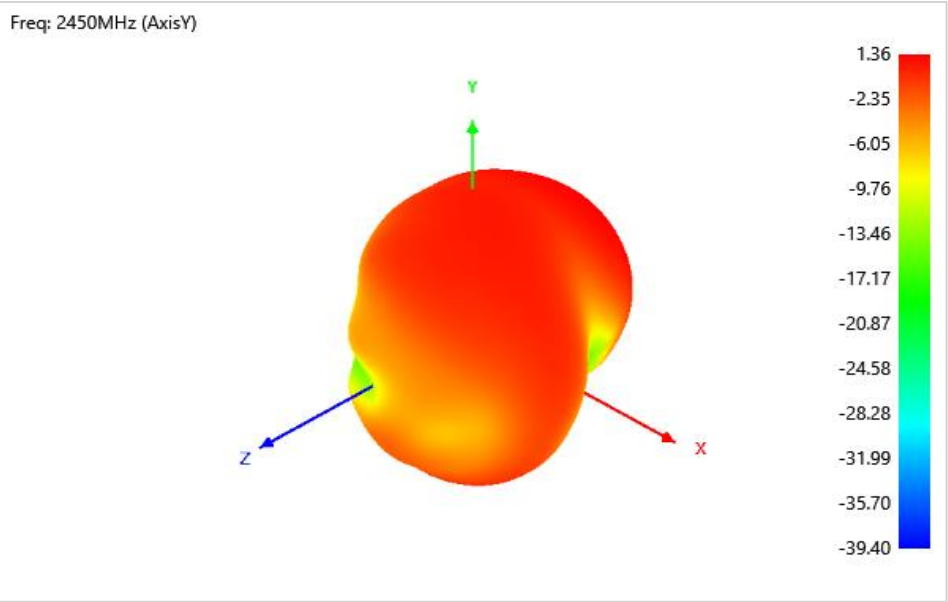
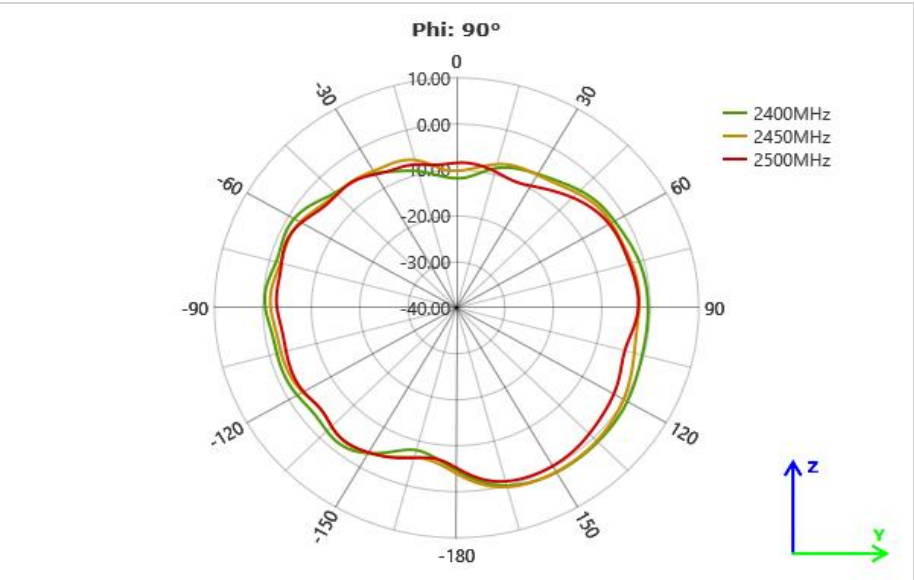
XOY



XOZ

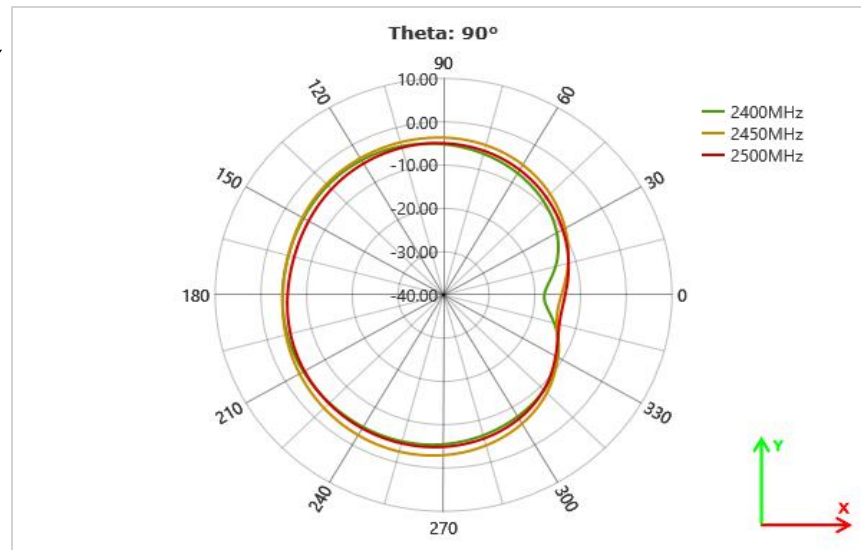


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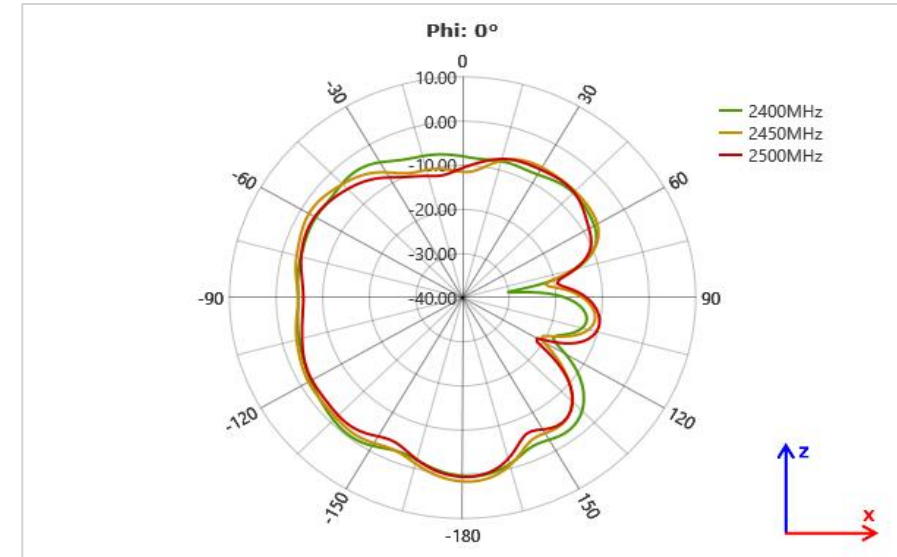


WiFi ANT1 2.4G Passive Test Data: 2D Radiation Pattern / 3D Radiation Pattern

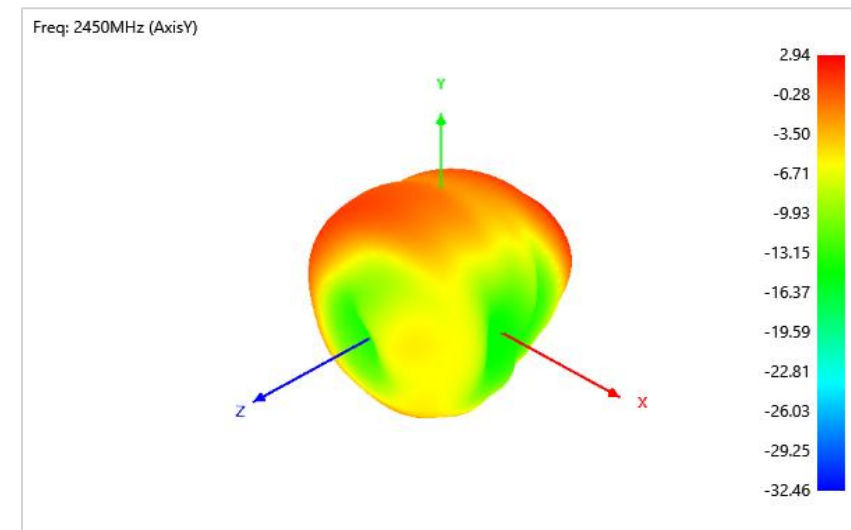
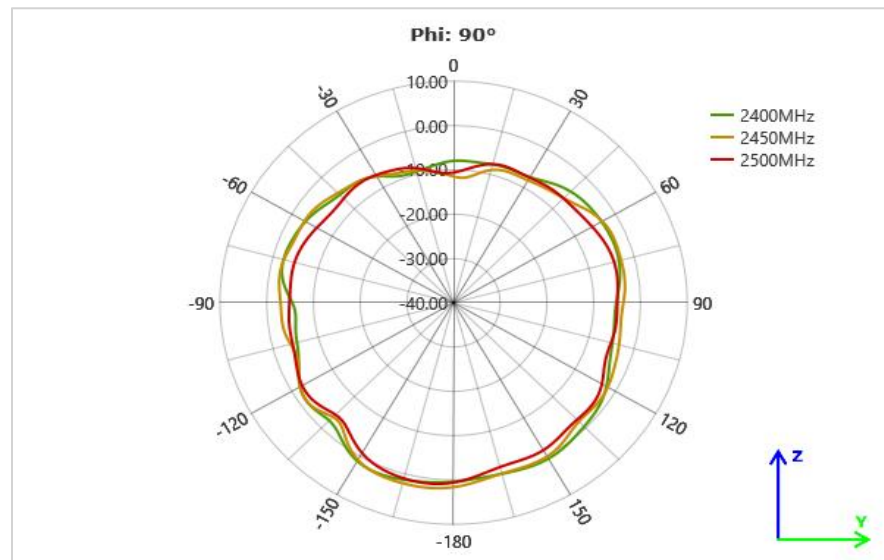
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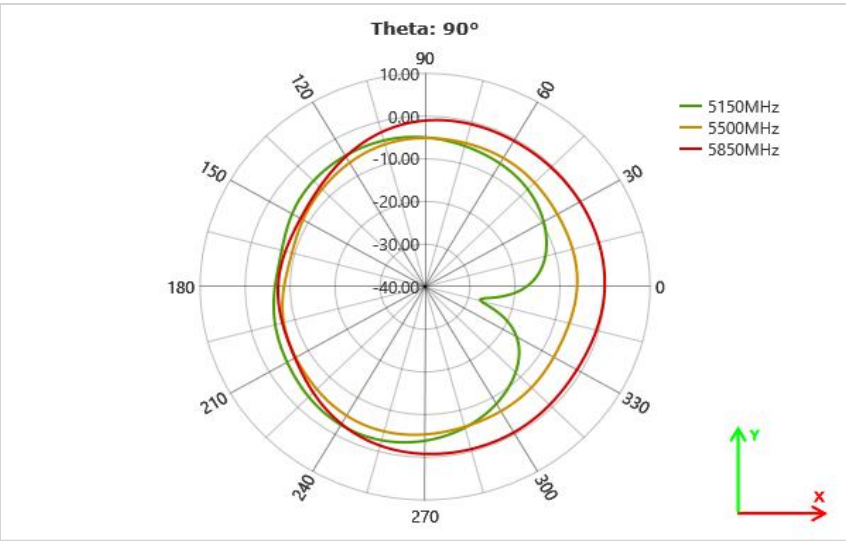
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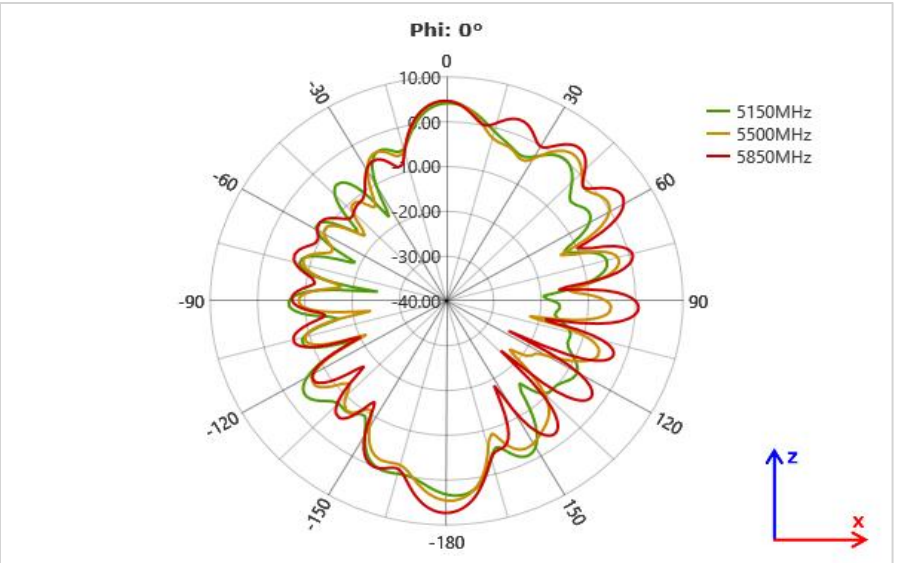
WiFi ANT1 5G Passive Test Data: 2D Radiation Pattern / 3D Radiation Pattern



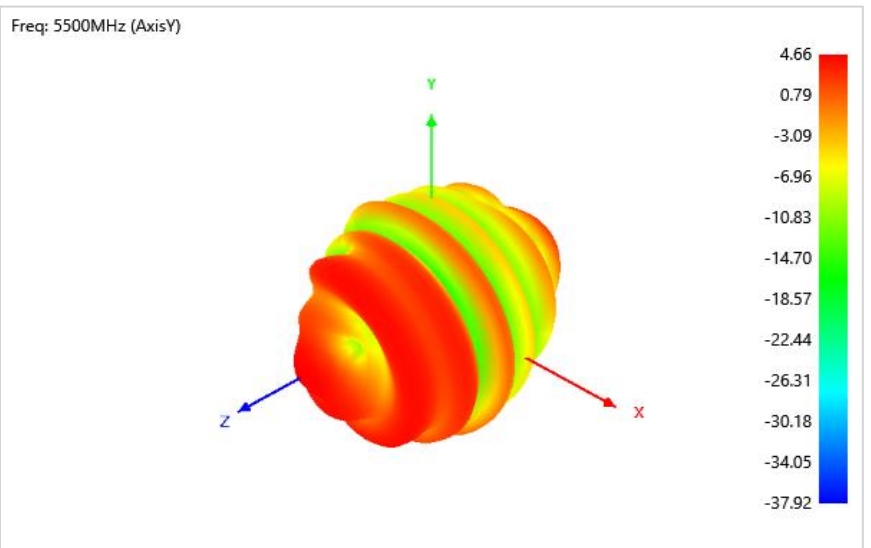
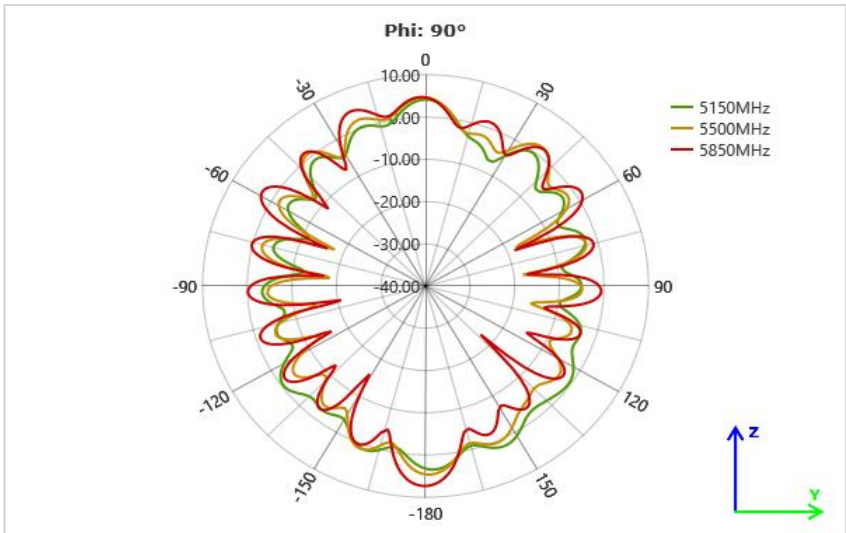
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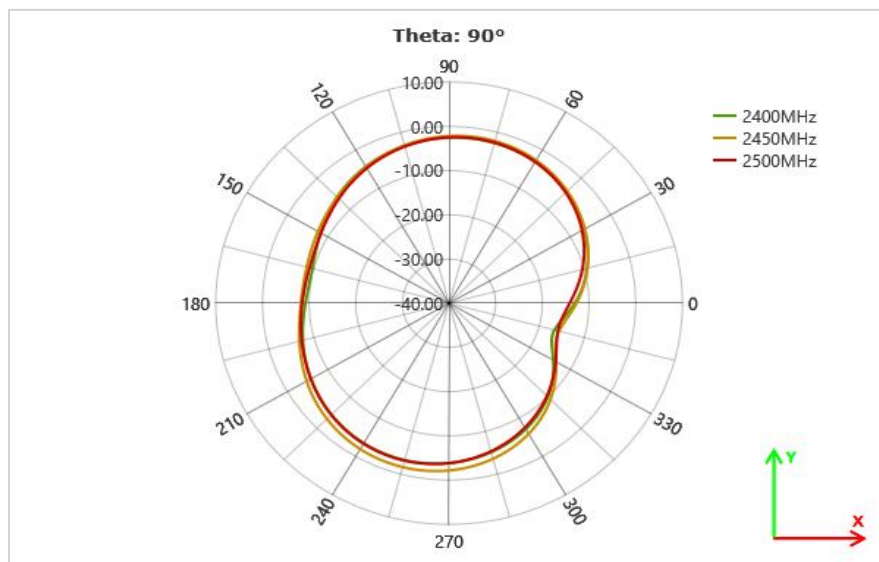


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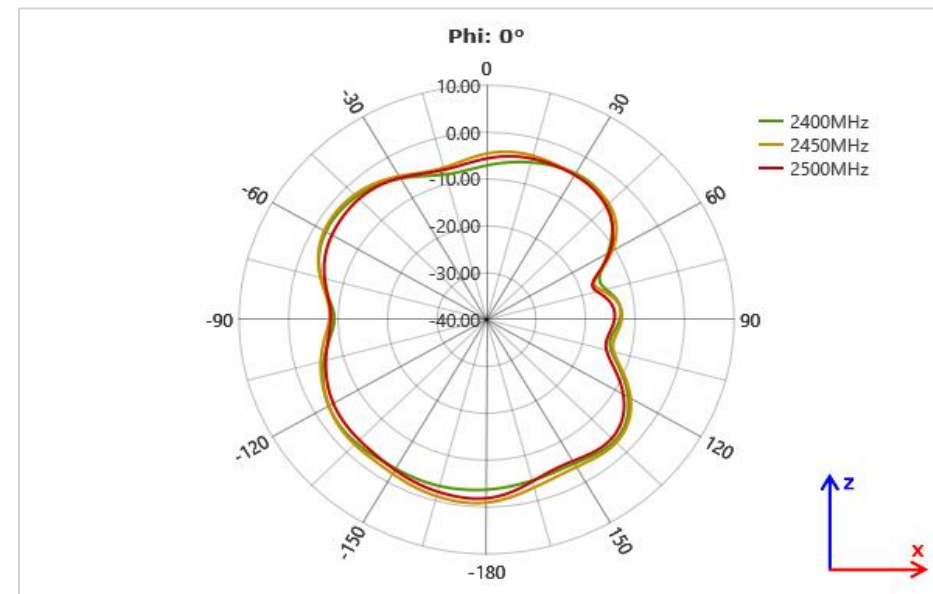


WiFi ANT2 2.4G Passive Test Data: 2D Radiation Pattern / 3D Radiation Pattern

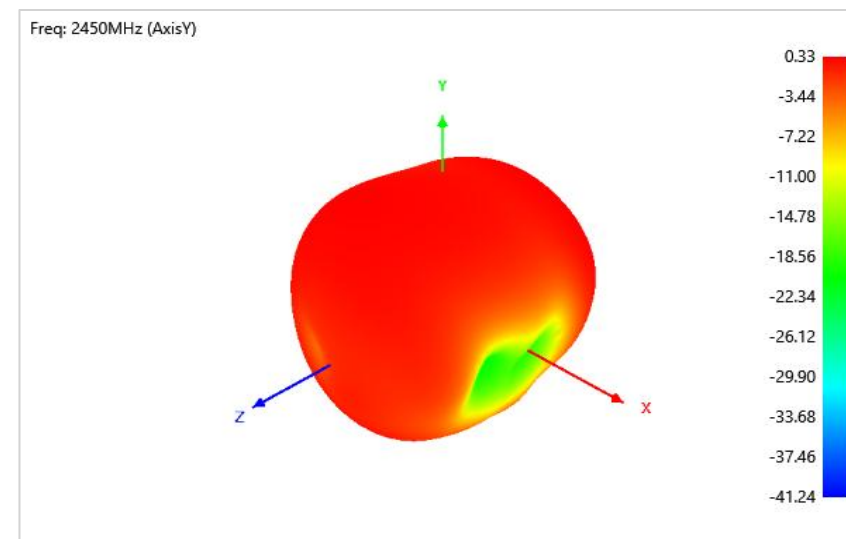
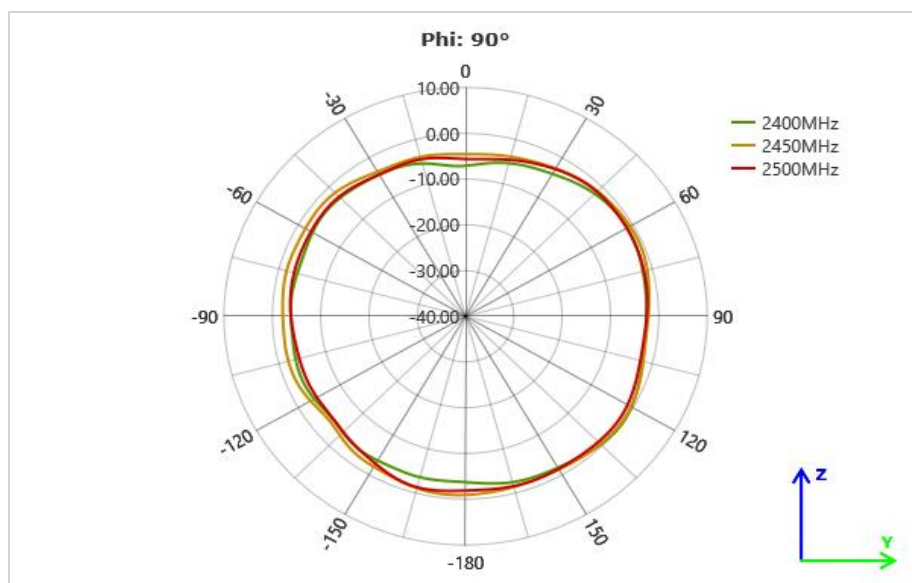
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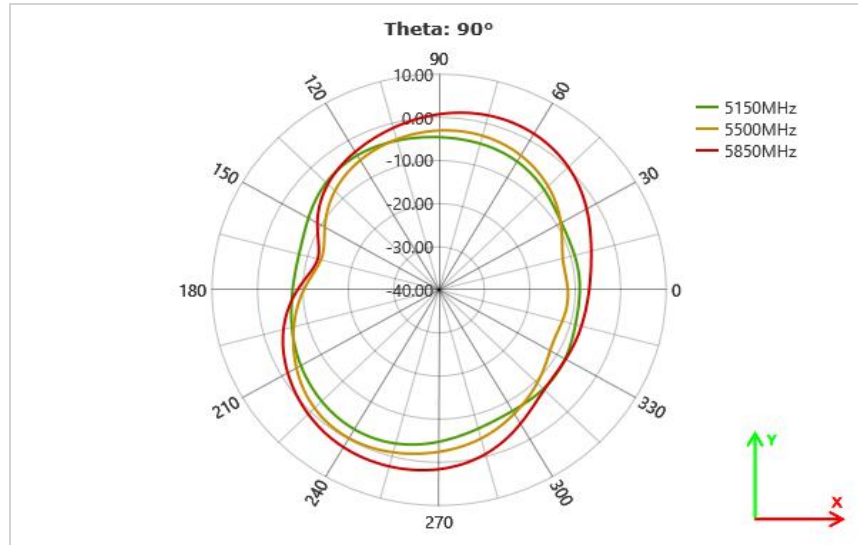


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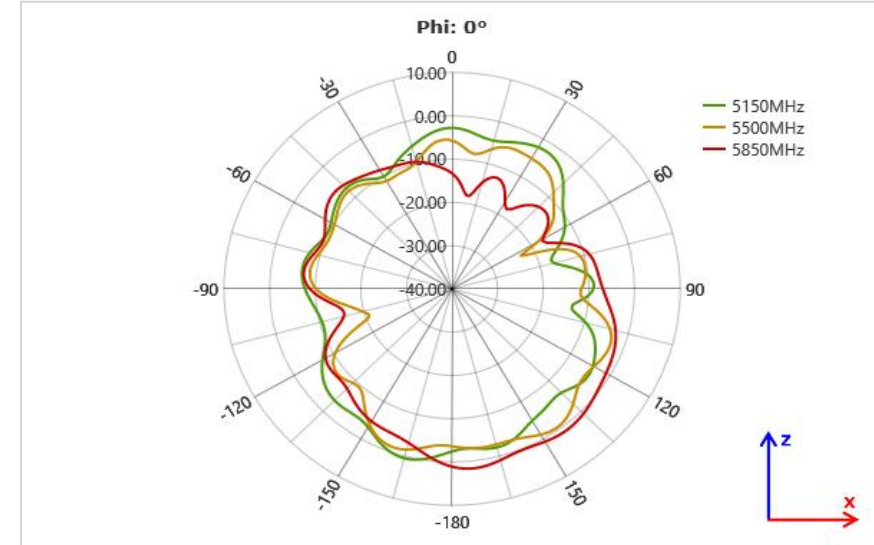


WiFi ANT2 5G Passive Test Data: 2D Radiation Pattern / 3D Radiation Pattern

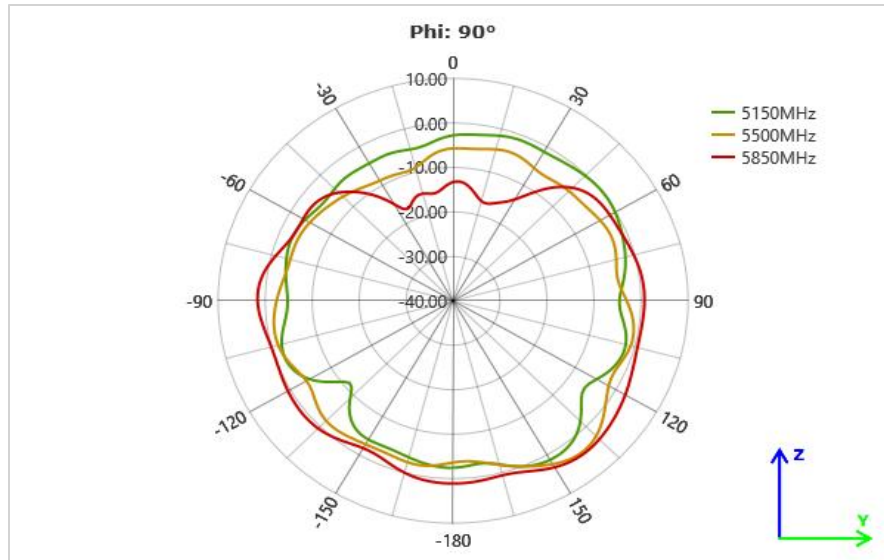
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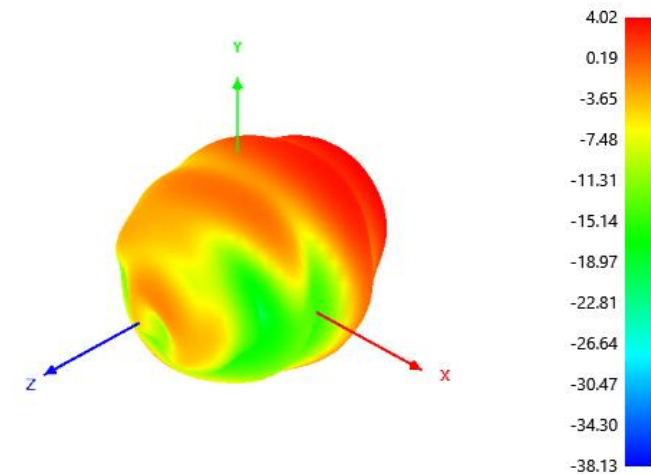
XOZ



YOZ



Freq: 5500MHz (AxisY)



Thank You

