Antenna Version：ANT-2G4-04

Model of the DUT：MT05801

PCB number and version: MS116F6_V2.2

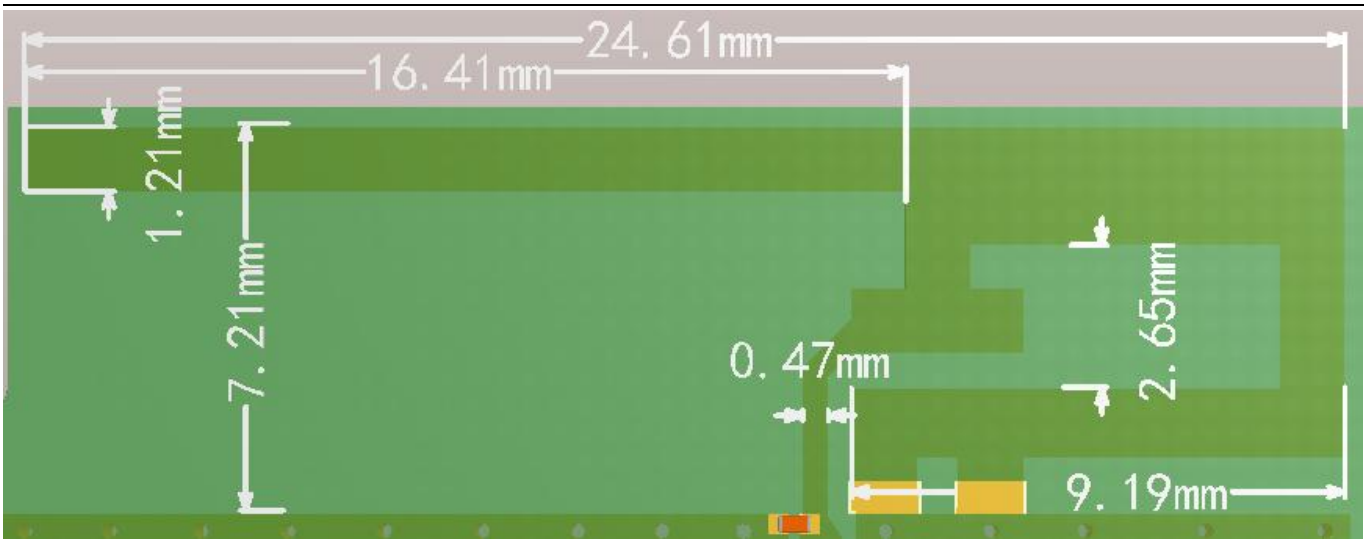
Hardware Engineer：窦淼全

Test Data：2019/11/6

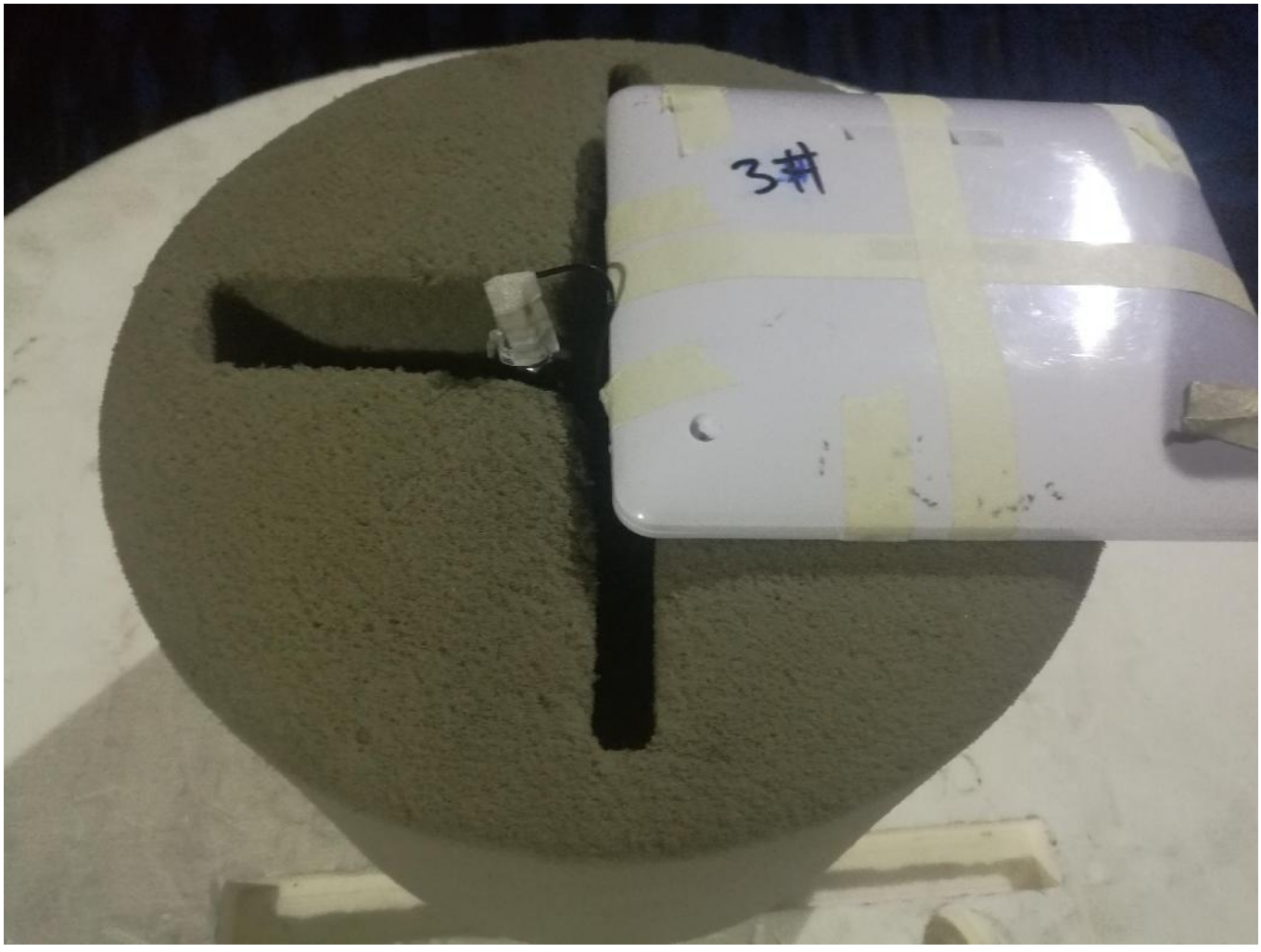
1、(Technical Specification)

Electrical Specifications	
Frequency Range （MHz）	2400-2480
Bandwidth (-10dB) （MHz）	≥100
Input Impedance （Ω）	50
Return Loss（dB）	＜-21
VSWR	＜1.5
Gain (@2.44GHz) （dBi）	0
Peak Gain（dBi）	0.2
Polarization Type	Linear polarization
Lightning Protection	（DC grounding）
Power Capacity （mW）	1000
Mechanical Specifications	
Antenna Size (mm)	25.6*7.2mm
Radiator	Cuprum
Connect Type	无
Working Temperature （℃）	-20~50
Storage Temperature （℃）	-40~65

2、the shape and size of the antenna



3、The result of the test



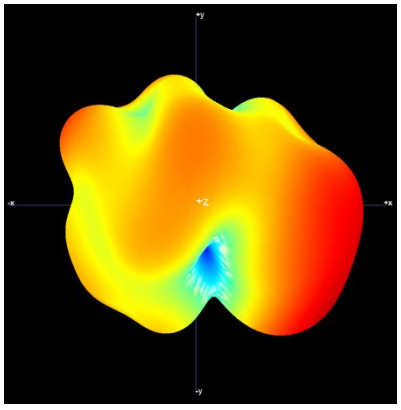
3.1 Gain and Efficiency

Frequency	Efficiency	Efficiency . dB	Frequency	Gain . dB
2.4E+09	23%	-6.32799	2.4E+09	-0.66006
2.4E+09	23%	-6.30898	2.4E+09	-0.56546
2.4E+09	23%	-6.32589	2.4E+09	-0.54336
2.41E+09	23%	-6.36286	2.41E+09	-0.66073
2.41E+09	23%	-6.35233	2.41E+09	-0.71176
2.41E+09	24%	-6.27077	2.41E+09	-0.63595
2.41E+09	24%	-6.16547	2.41E+09	-0.43647
2.41E+09	24%	-6.11536	2.41E+09	-0.35755
2.42E+09	24%	-6.11725	2.42E+09	-0.4147
2.42E+09	24%	-6.11008	2.42E+09	-0.43095
2.42E+09	25%	-6.07978	2.42E+09	-0.34409
2.42E+09	25%	-6.0391	2.42E+09	-0.22428
2.42E+09	25%	-6.04156	2.42E+09	-0.24951
2.43E+09	25%	-6.05295	2.43E+09	-0.35968
2.43E+09	25%	-6.00616	2.43E+09	-0.33309
2.43E+09	26%	-5.89414	2.43E+09	-0.12825
2.43E+09	26%	-5.84865	2.43E+09	0.053415
2.43E+09	26%	-5.85921	2.43E+09	0.01101
2.44E+09	26%	-5.89675	2.44E+09	-0.22421
2.44E+09	26%	-5.90238	2.44E+09	-0.23389
2.44E+09	26%	-5.88447	2.44E+09	-0.0321
2.44E+09	26%	-5.89213	2.44E+09	0.039532
2.44E+09	25%	-5.94917	2.44E+09	-0.09885
2.45E+09	25%	-5.97808	2.45E+09	-0.30077
2.45E+09	26%	-5.93428	2.45E+09	-0.20493
2.45E+09	26%	-5.86808	2.45E+09	0.043325
2.45E+09	26%	-5.81473	2.45E+09	0.122741
2.45E+09	26%	-5.80969	2.45E+09	-0.05347
2.46E+09	26%	-5.79446	2.46E+09	-0.10647
2.46E+09	27%	-5.73856	2.46E+09	0.015195
2.46E+09	27%	-5.68973	2.46E+09	0.155866
2.46E+09	27%	-5.69068	2.46E+09	0.087145
2.46E+09	27%	-5.71524	2.46E+09	-0.08214
2.47E+09	27%	-5.69377	2.47E+09	-0.10311
2.47E+09	27%	-5.621	2.47E+09	0.040684
2.47E+09	28%	-5.55159	2.47E+09	0.211747
2.47E+09	28%	-5.58712	2.47E+09	0.096428
2.47E+09	27%	-5.64649	2.47E+09	-0.05649
2.48E+09	27%	-5.65986	2.48E+09	-0.01055
2.48E+09	27%	-5.63399	2.48E+09	-0.03047

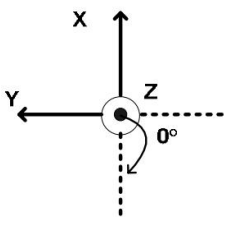
2.48E+09	27%	-5.63458	2.48E+09	-0.04555
2.48E+09	27%	-5.67343	2.48E+09	-0.16847
2.48E+09	27%	-5.71063	2.48E+09	-0.06164
2.49E+09	27%	-5.69227	2.49E+09	-0.02283
2.49E+09	27%	-5.64553	2.49E+09	-0.02305
2.49E+09	27%	-5.63323	2.49E+09	-0.0209
2.49E+09	27%	-5.63746	2.49E+09	-0.13023
2.49E+09	27%	-5.63554	2.49E+09	0.027534
2.5E+09	28%	-5.5953	2.5E+09	0.067706
2.5E+09	28%	-5.55627	2.5E+09	0.058407
2.5E+09	28%	-5.56593	2.5E+09	-0.03035

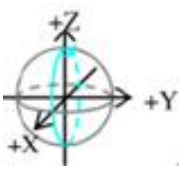
3.2 Radiation Pattern

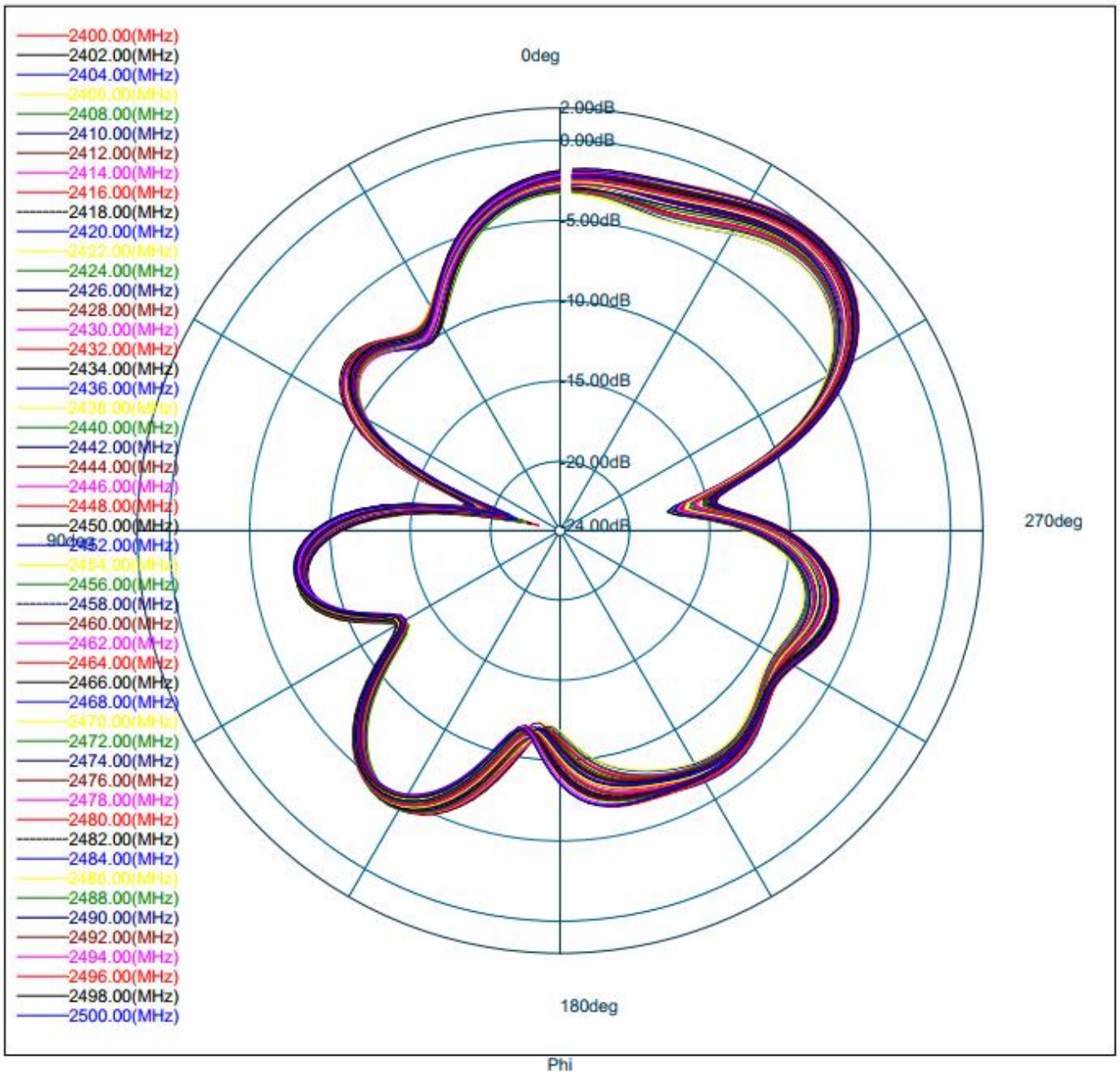
3D 方向图

	2440MHz	
		

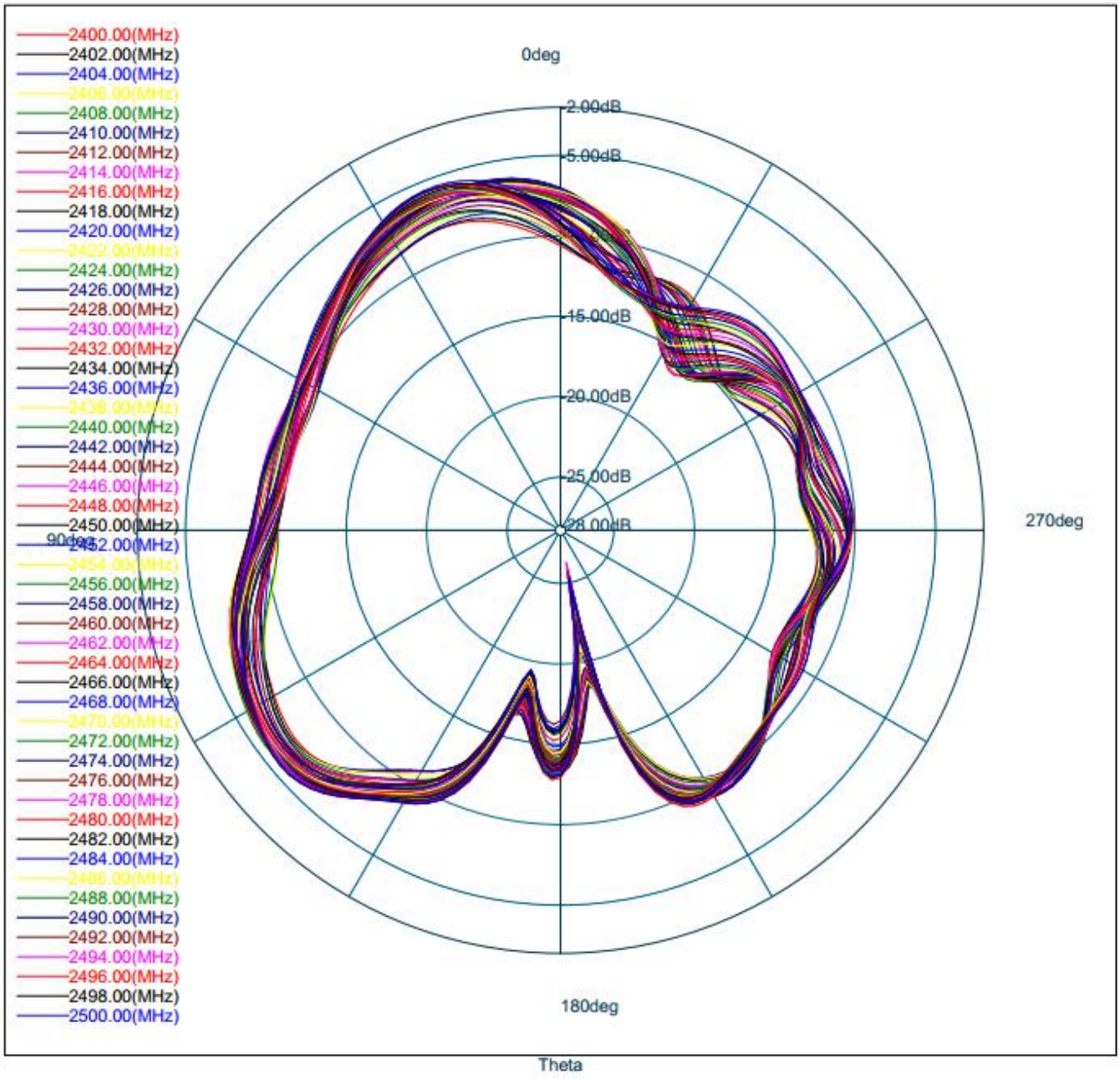
（1）E1，XZ 面，phi=0°；（E1，XZ plane，phi=0°）



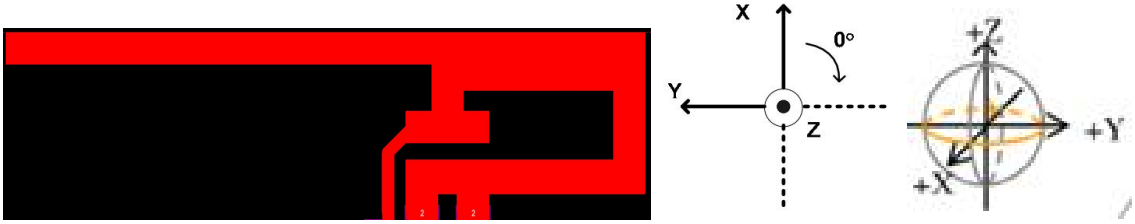


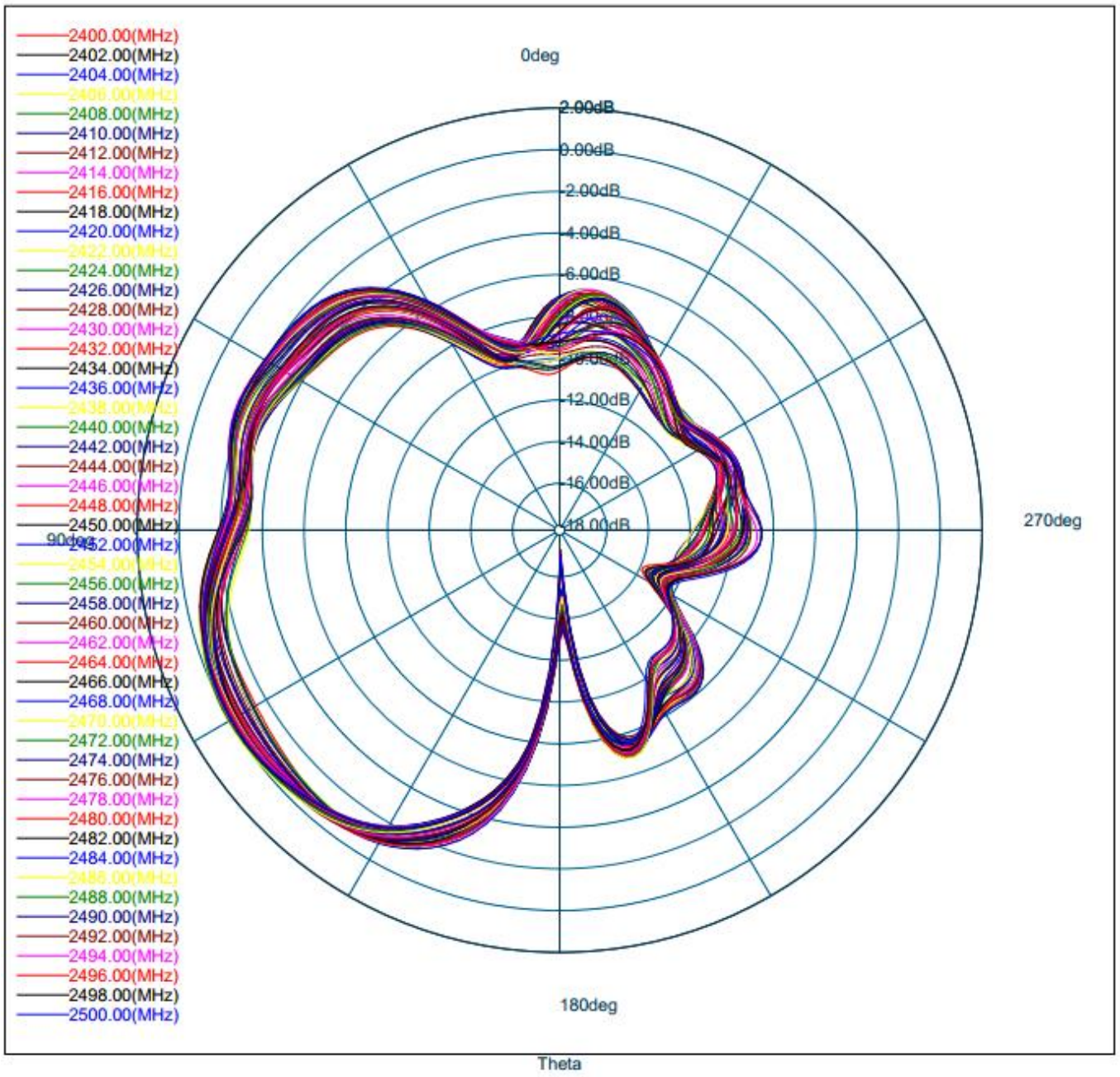


（2）E2，YZ 面，phi=90°；（E2，YZ 面，phi=90° ）



（3）H，XY 面， theta=90°；（H，XY plane，theta=90°）

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2494.00(MHz)
2496.00(MHz)
2498.00(MHz)
2500.00(MHz)
0deg
2.00dB
0.00dB
2.00dB
4.00dB
6.00dB
12.00dB
14.00dB
16.00dB
18.00dB
90deg
270deg
180deg
Theta