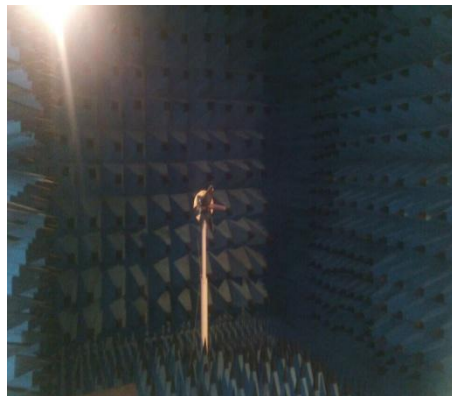


目录

- ◇ 研发设备
- ◇ 名词解释
- ◇ 测试数据
- ◇ 匹配电路
- ◇ 装配说明
- ◇ 项目总结

研发设备



公司拥有通信行业最领先的法国 Satimo SG24 OTA测试系统1套, ETS OTA 标准测试系统2套, Bluetest 混响暗室1套, MicroPress NFC测试系统1套, 能快速稳定的给客户id提供精确的测试报告, 完全符合CITA标准, 支持 GSM/CDMA/WCDMA/TD/LTE/WIFI/BT/GPS/MIMO等各制式的有源无源测试。

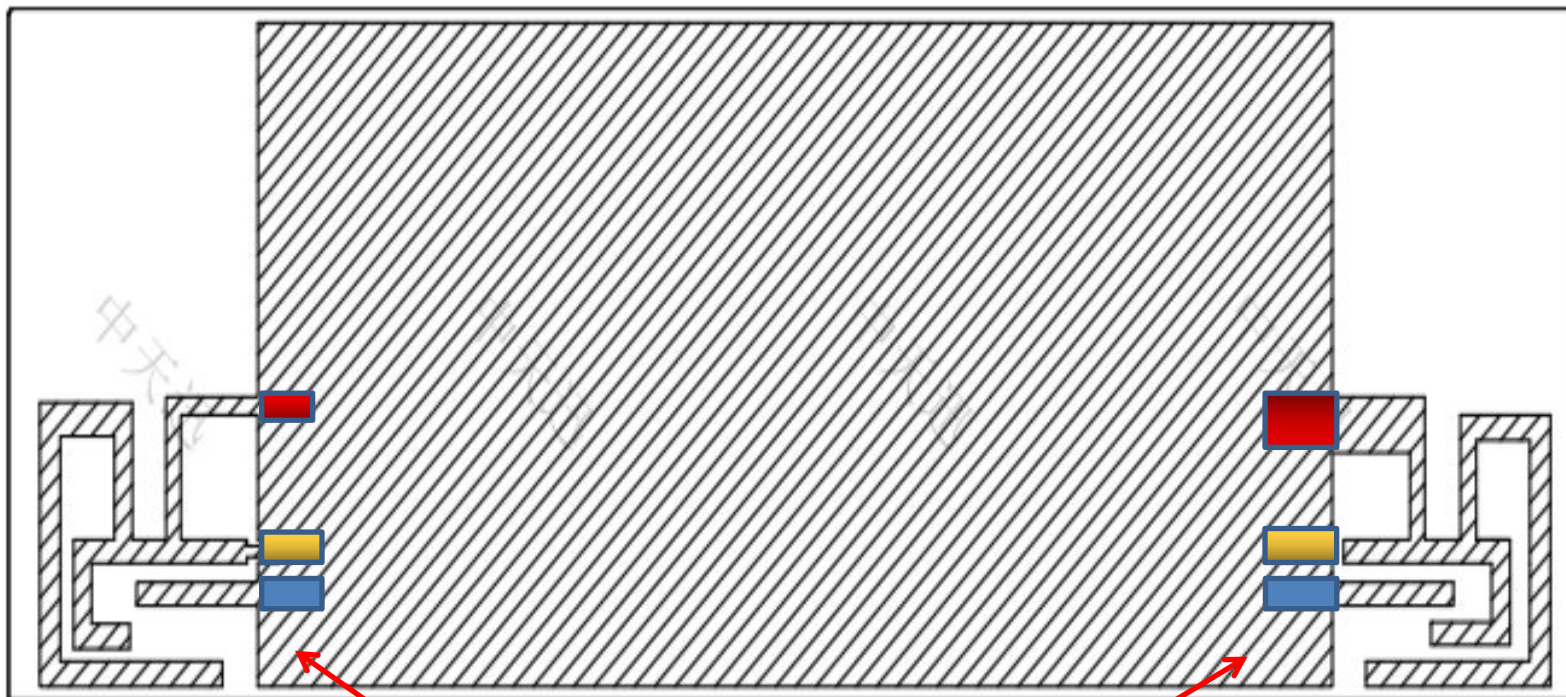


MicroPress NFC系统能满足各运行商测试要求, 对NFC设备进行快速性能测试, 并输出正式认证测试报告

名词解释

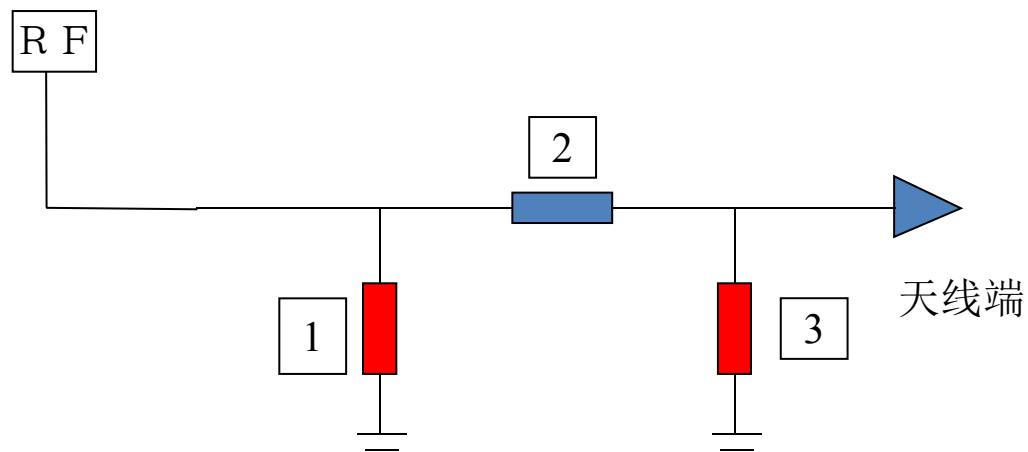
dB _i	Decibel relative isotropic antenna
T _x	Transmit frequency
R _x	Receive frequency
TRP	Total Radiated Power
TIS	Total Isotropic Sensitivity
VSWR	Voltage Standing Wave Ratio
GSM	Global Service for Mobile communication
DCS	Digital Communication System
PCS	Personal Communication System
PHS	Personal Handly-phone System
SAR	Specific Absorption Rate
PCB	Printed Circuit Board
CDMA	Code Division Multiple Access
WCDMA	Wideband Code Division Multiple Access
LTE	Long Term Evolution





- 1) 黄色为馈电脚;
- 2) 红色和蓝色为馈地脚。

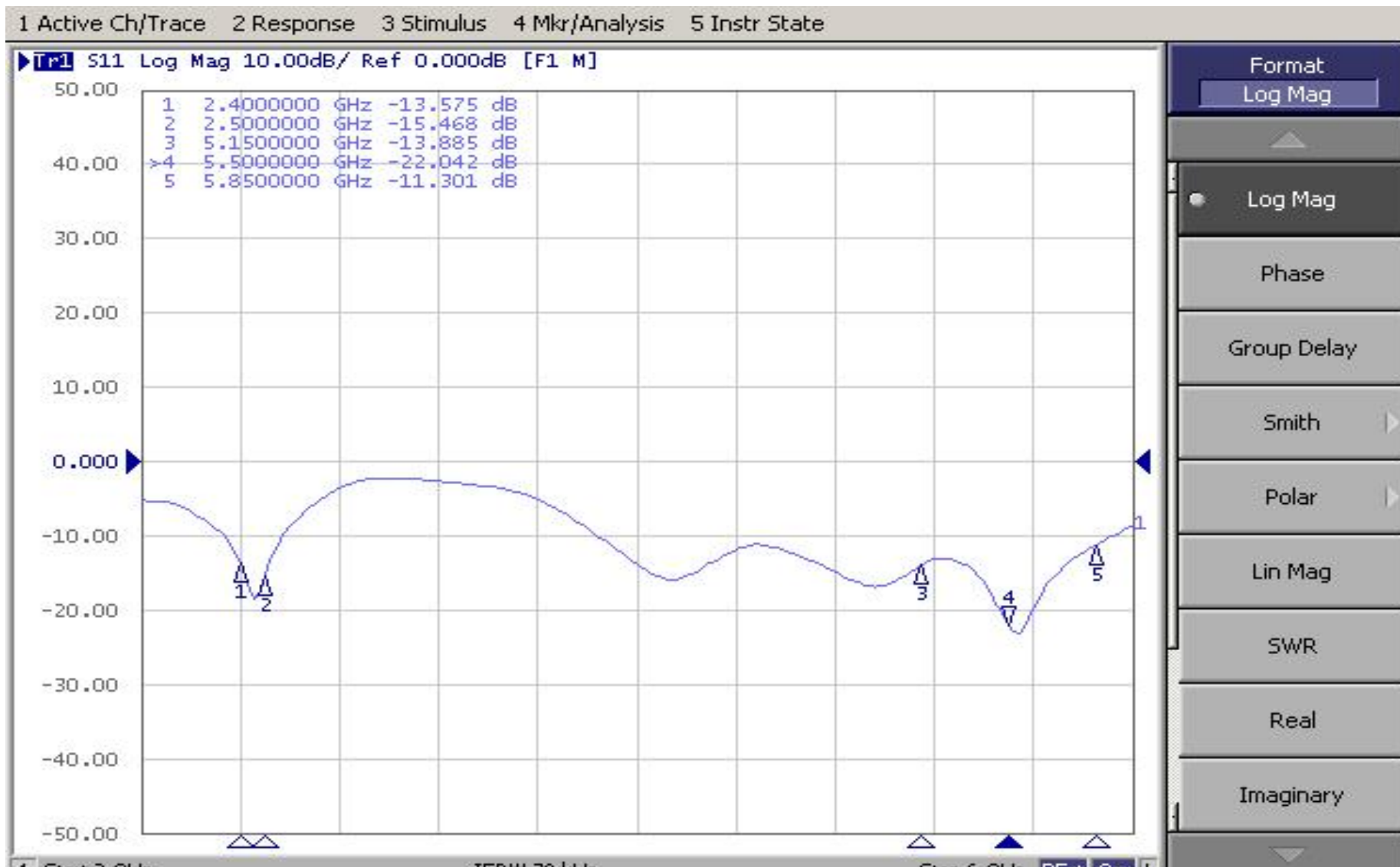
匹配电路



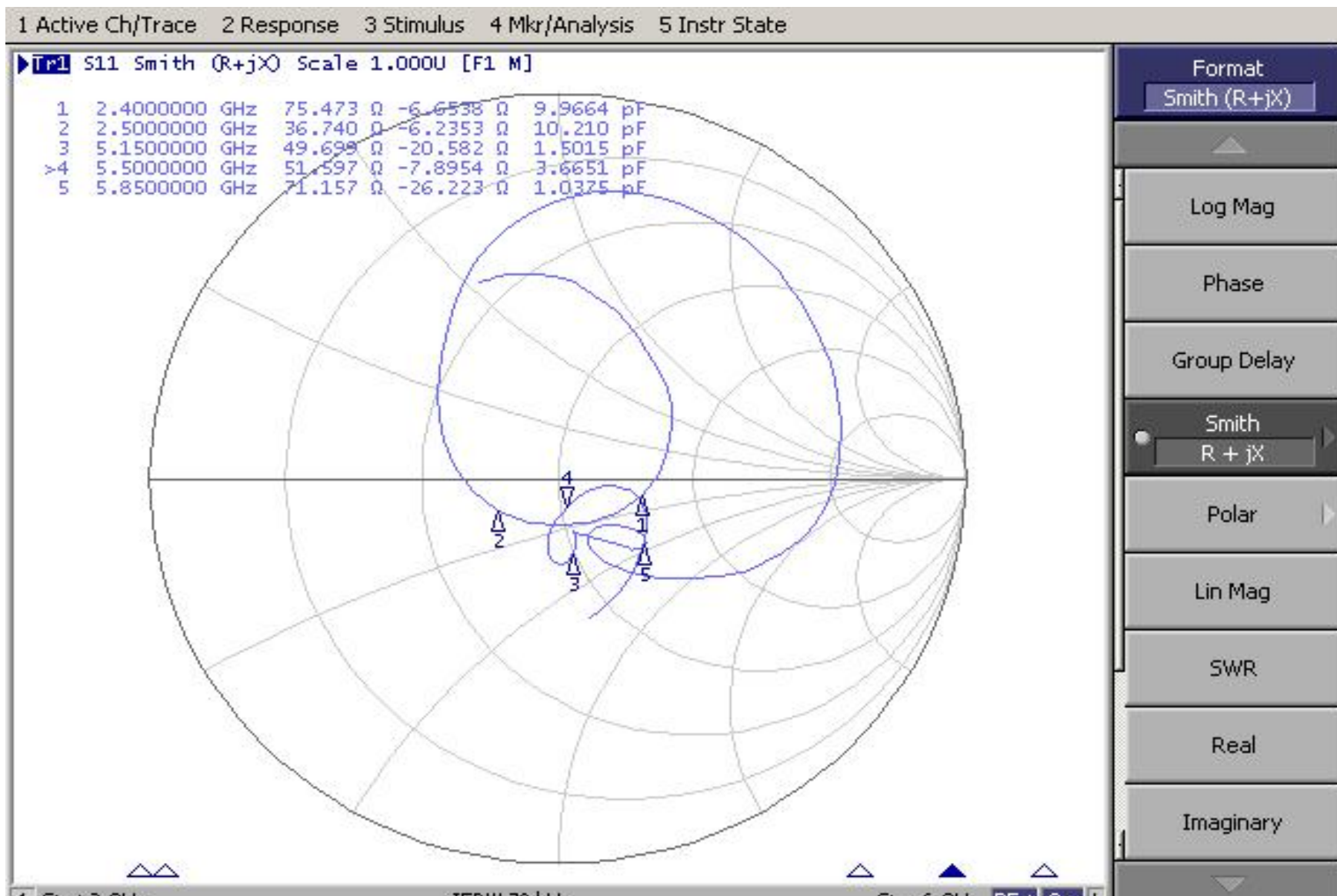
元件编号	1	2	3
原始	NF	0Ω	NF
更改后	NF	0Ω	NF

匹配电路未做更改

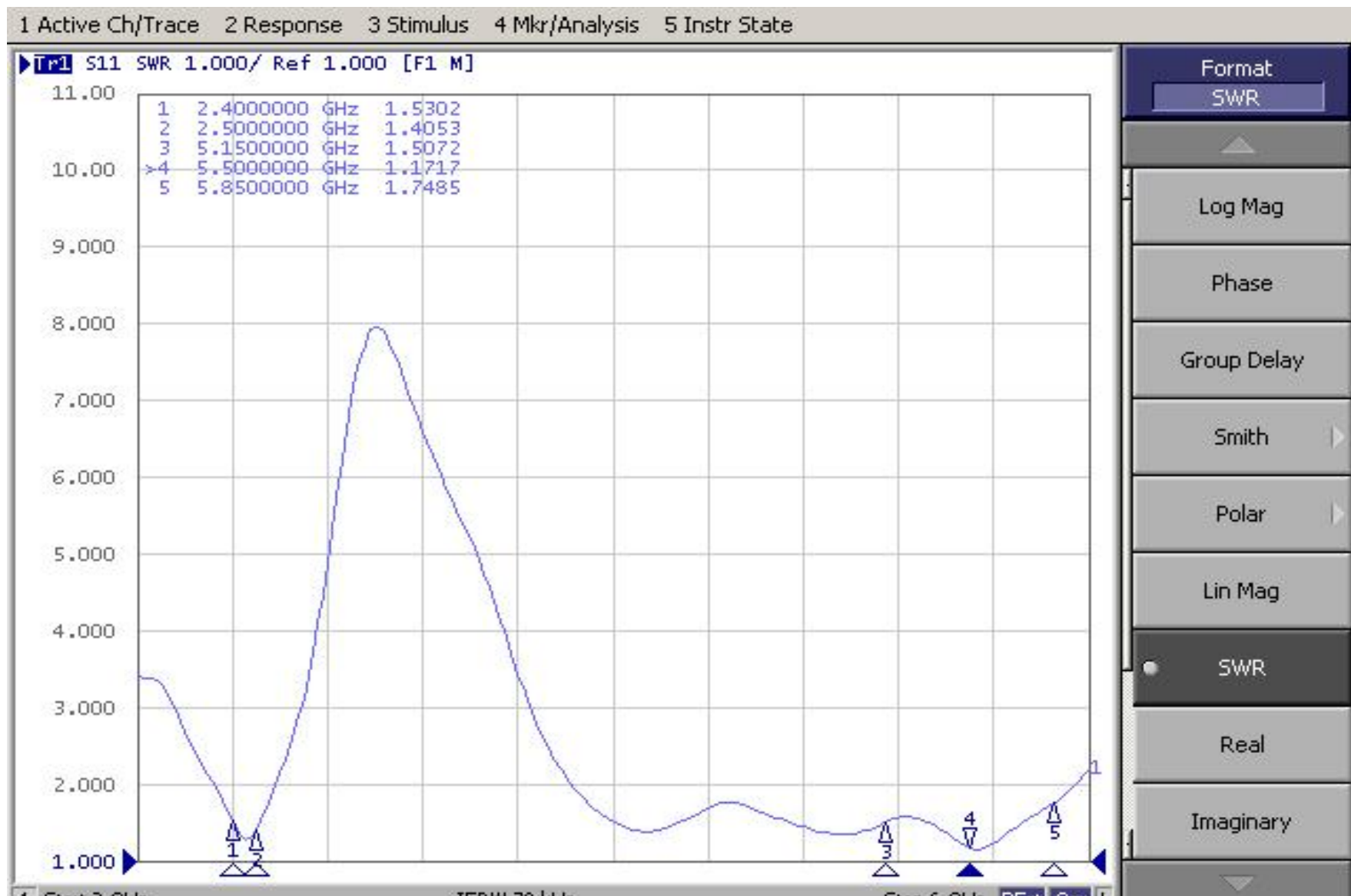
回波损耗图



史密斯圆图



驻波图

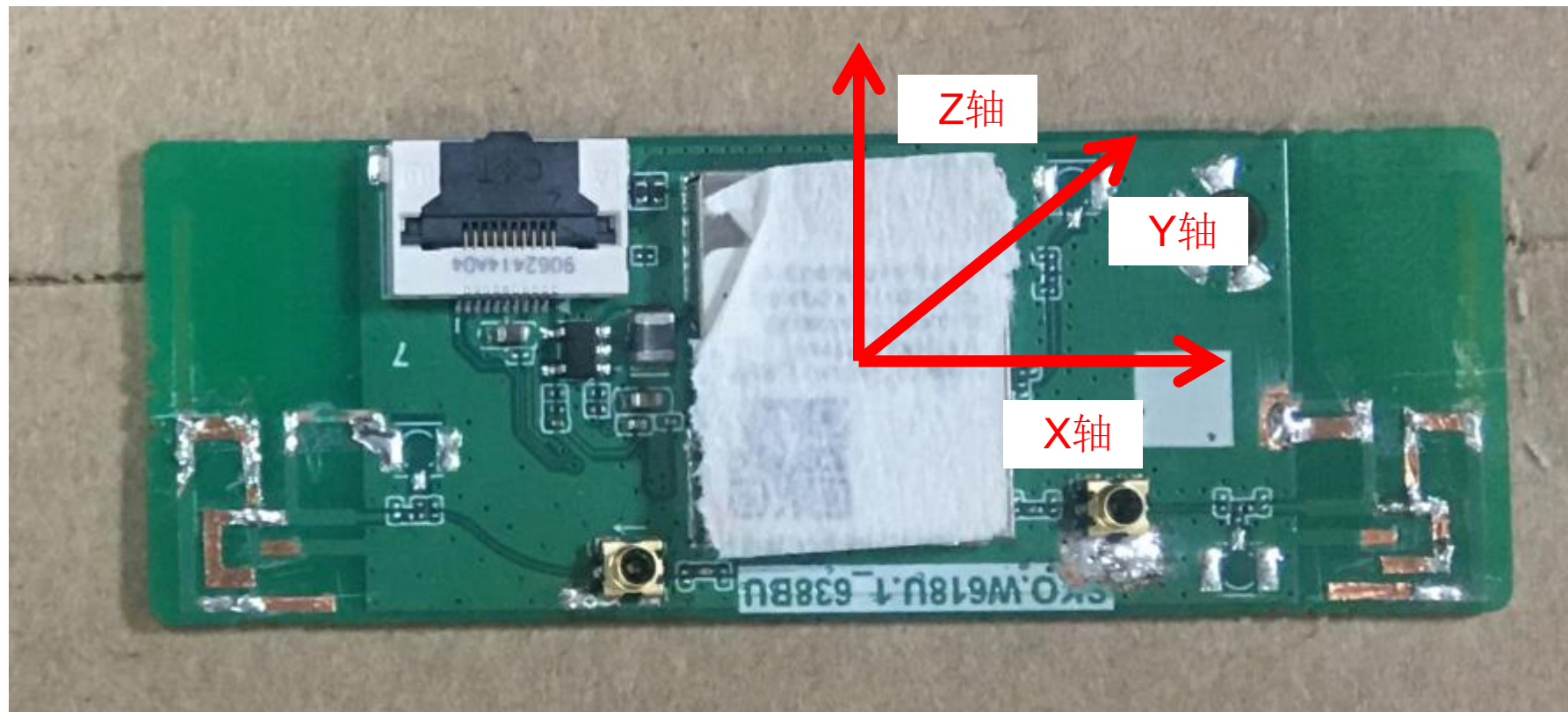


效率和增益

Frequency	Efficiency	Gain. dB
2.40E+09	60%	1.55
2.41E+09	60%	1.52
2.42E+09	60%	1.29
2.43E+09	62%	1.44
2.44E+09	63%	1.43
2.45E+09	62%	1.68
2.46E+09	64%	1.49
2.47E+09	62%	1.22
2.48E+09	63%	1.20
2.49E+09	62%	1.60
2.50E+09	62%	1.41

Frequency	Efficiency	Gain. dB
5.15E+09	64%	1.12
5.20E+09	64%	1.68
5.25E+09	63%	1.69
5.30E+09	63%	1.82
5.35E+09	64%	1.84
5.40E+09	63%	2.00
5.45E+09	63%	1.78
5.50E+09	62%	2.01
5.55E+09	62%	2.00
5.60E+09	62%	2.01
5.65E+09	64%	1.99
5.70E+09	64%	1.78
5.75E+09	64%	1.88
5.80E+09	64%	1.24
5.85E+09	64%	1.02

方向示意图

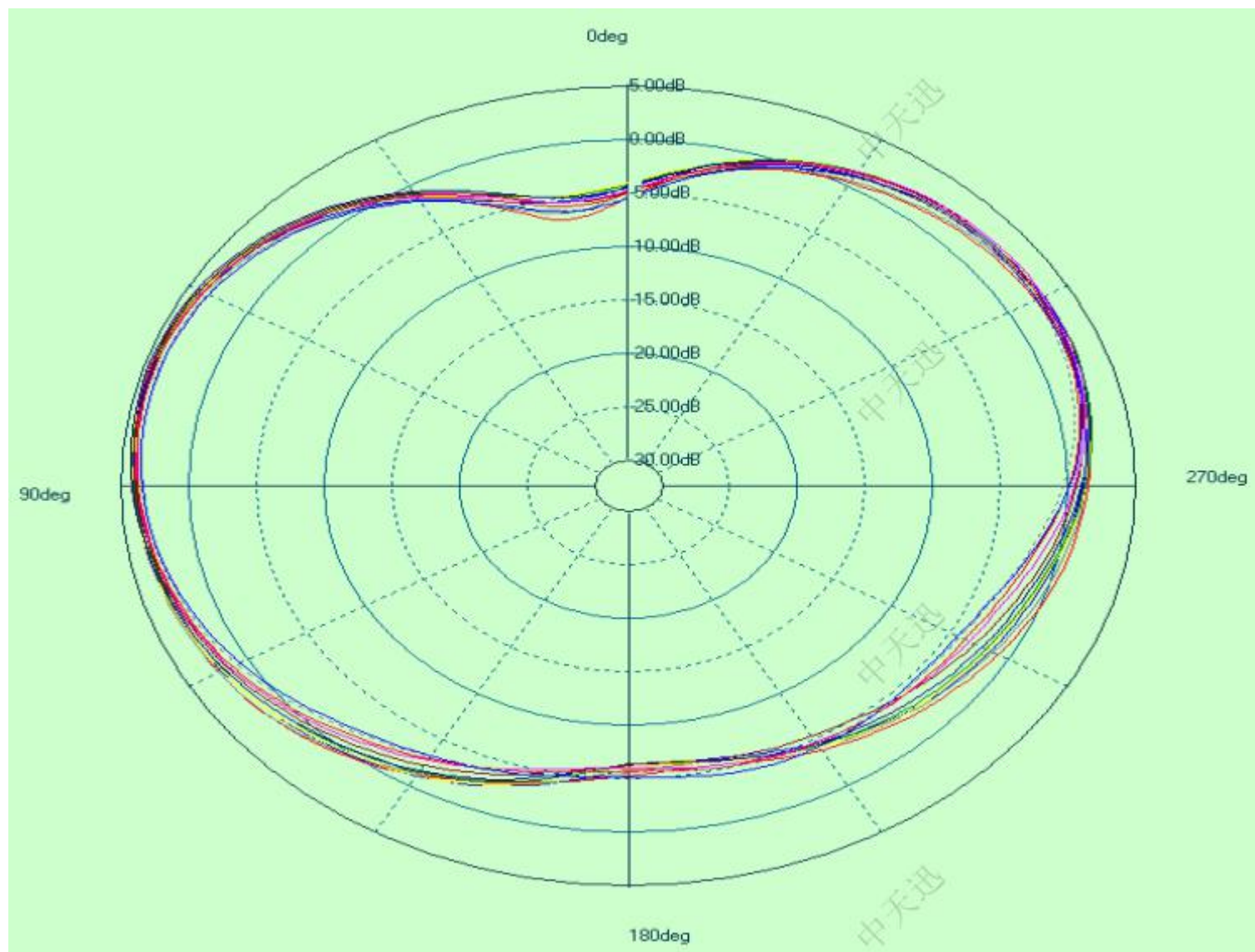


X轴指平行于PCB板正面向右；

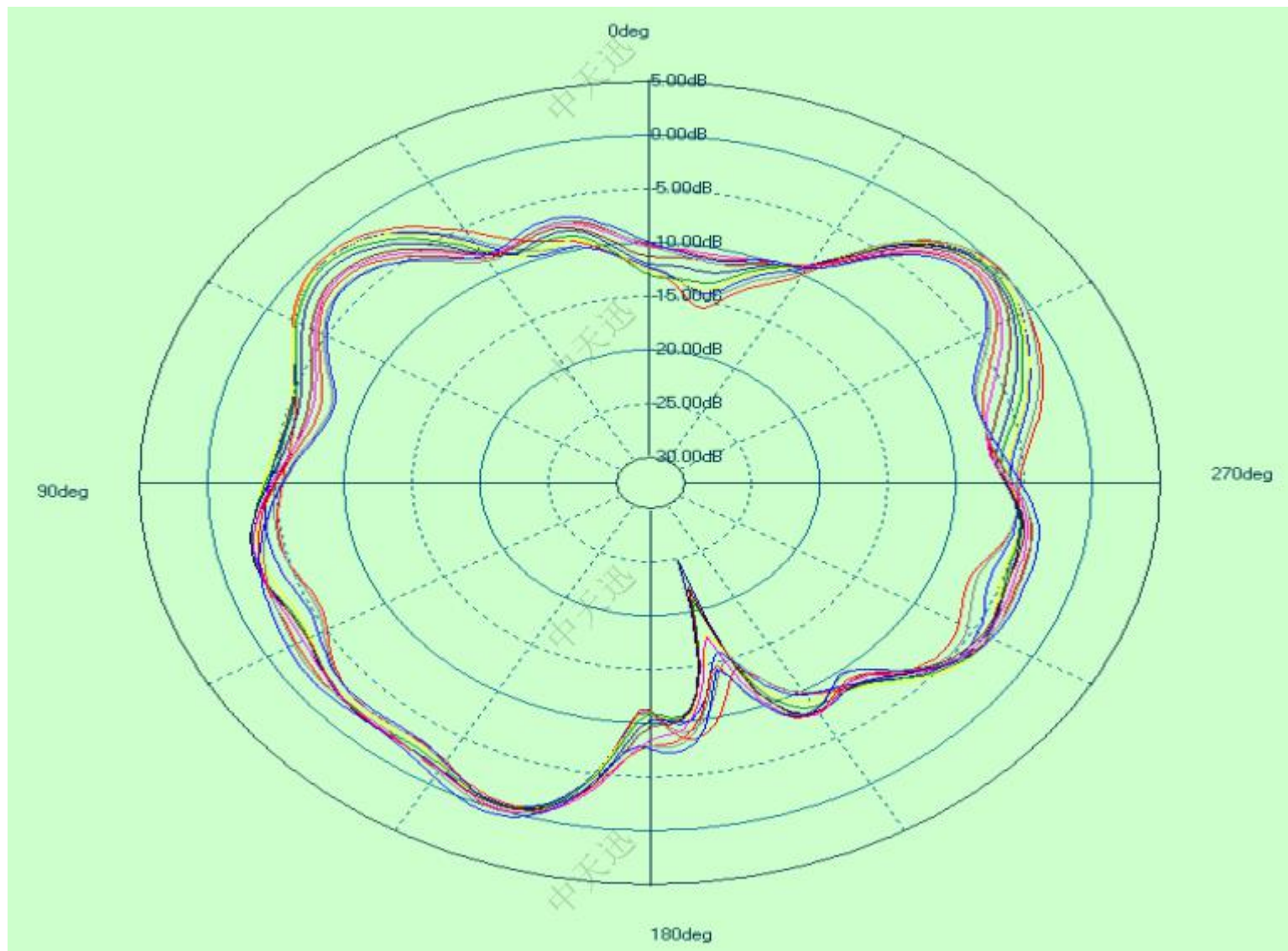
Y轴指垂直于PCB板正面向后；

Z轴指平行于PCB板正面向上。

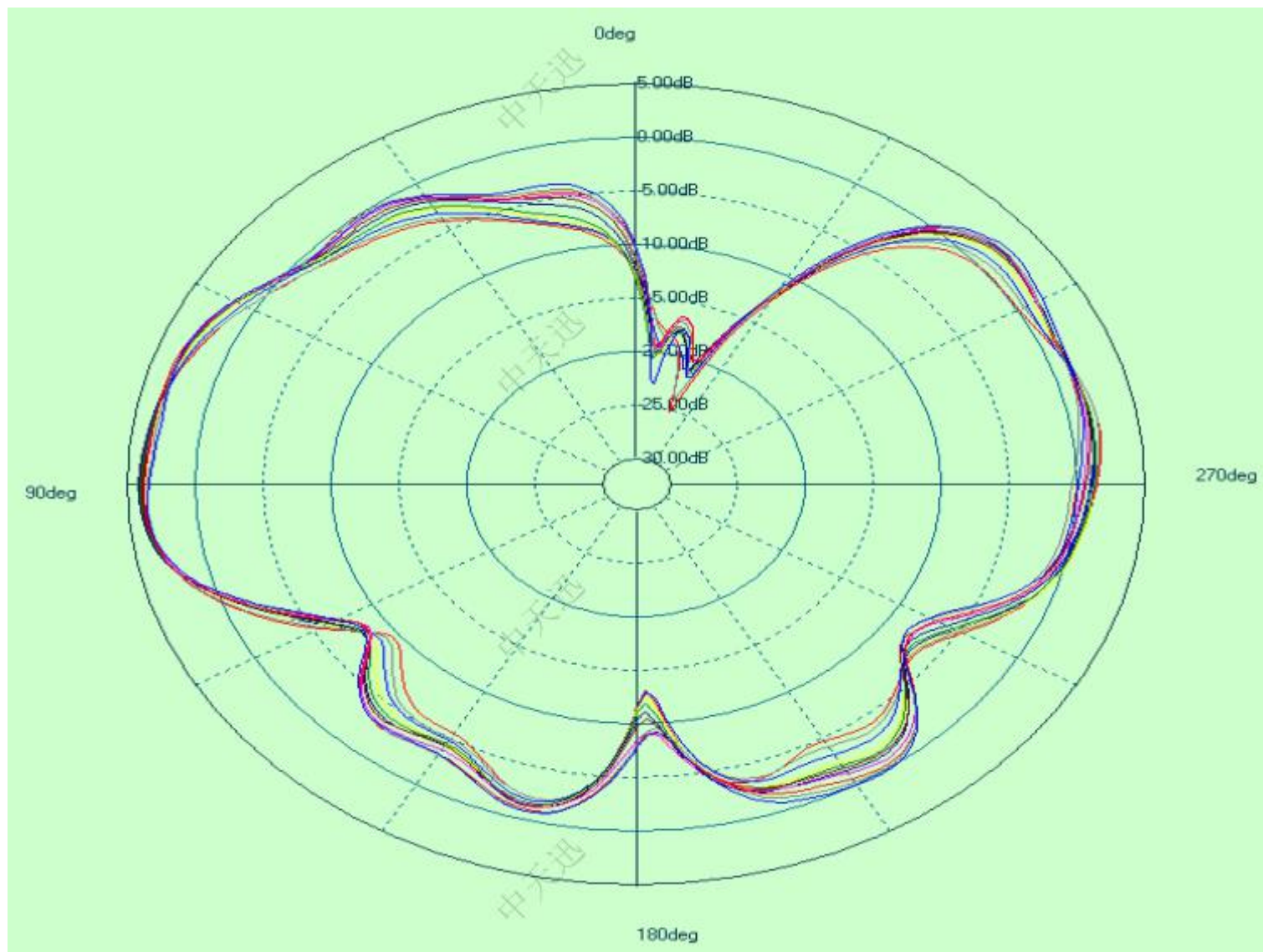
X0Y面 (Z=0) 2.4G



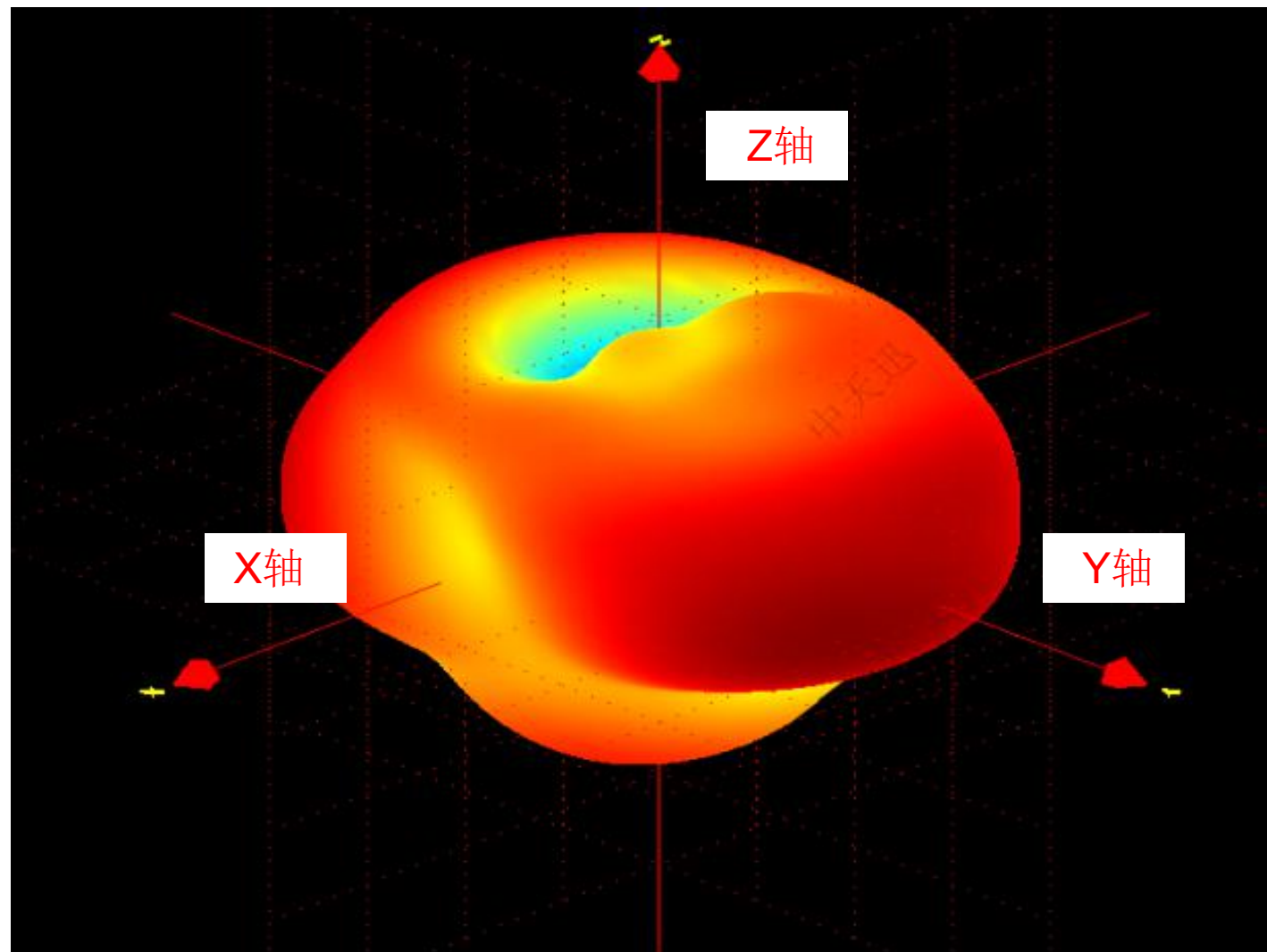
XOZ面 (Y=0) 2.4G



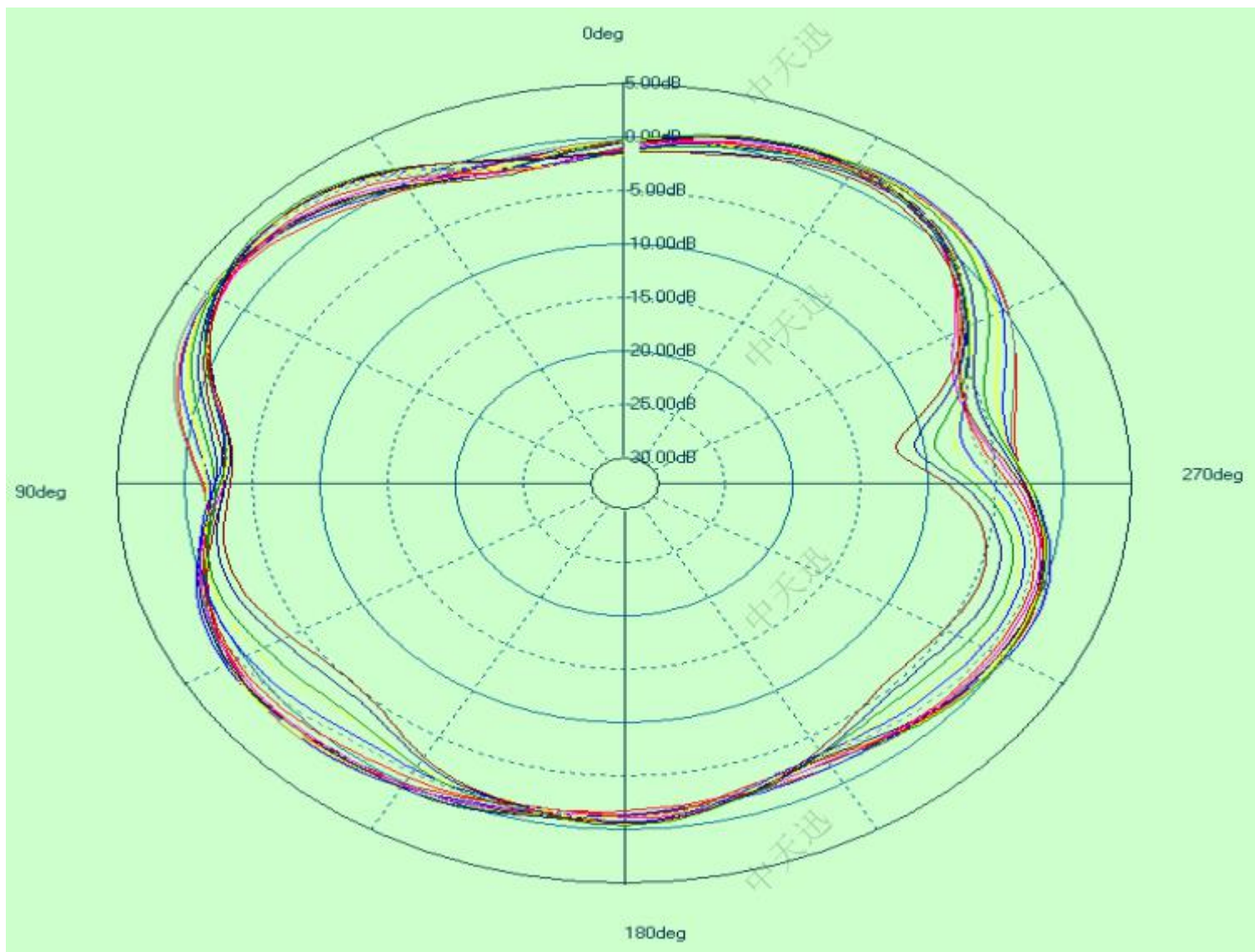
Y0Z面 (X=0) 2.4G



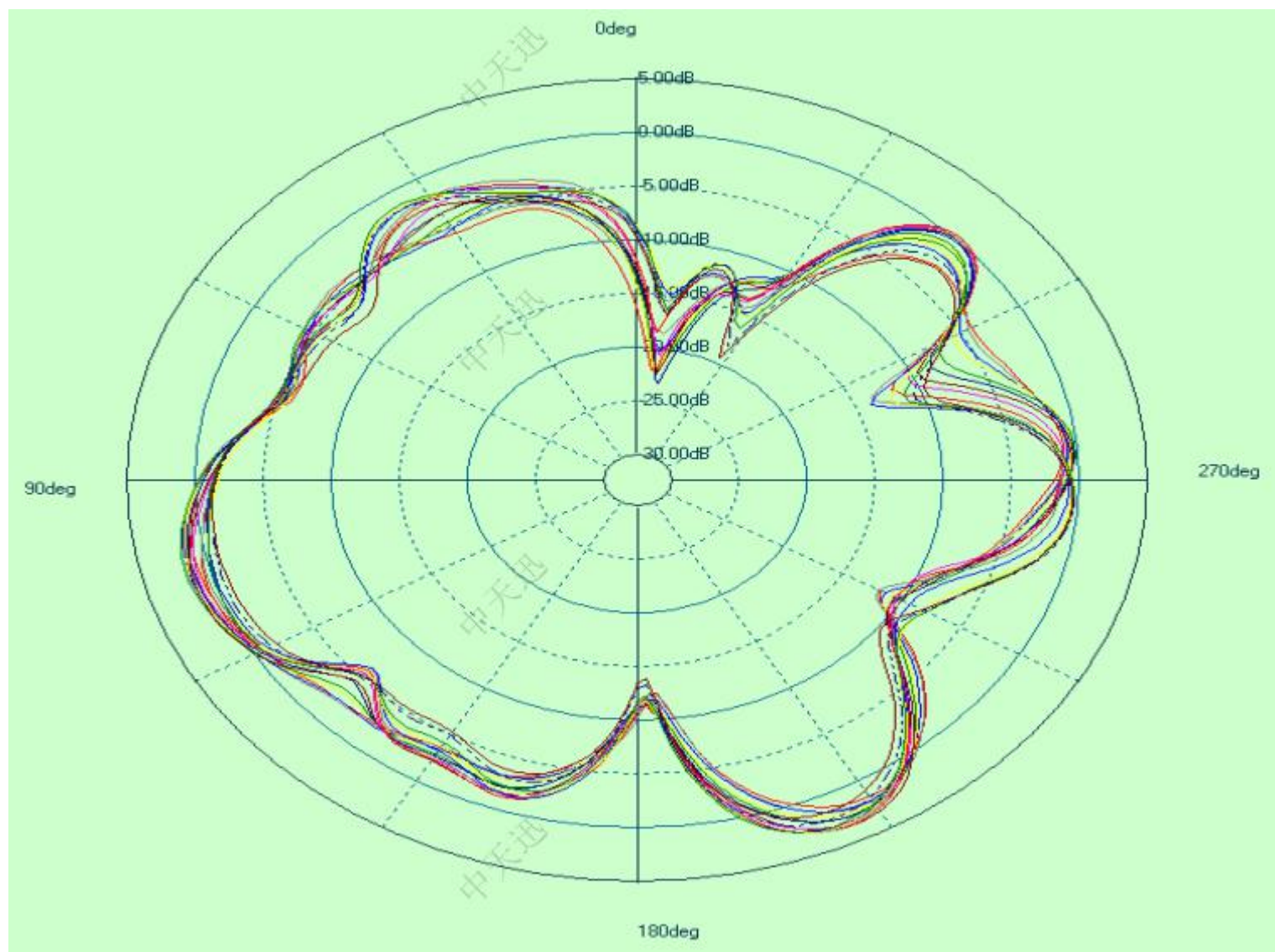
3D辐射图 2.4G



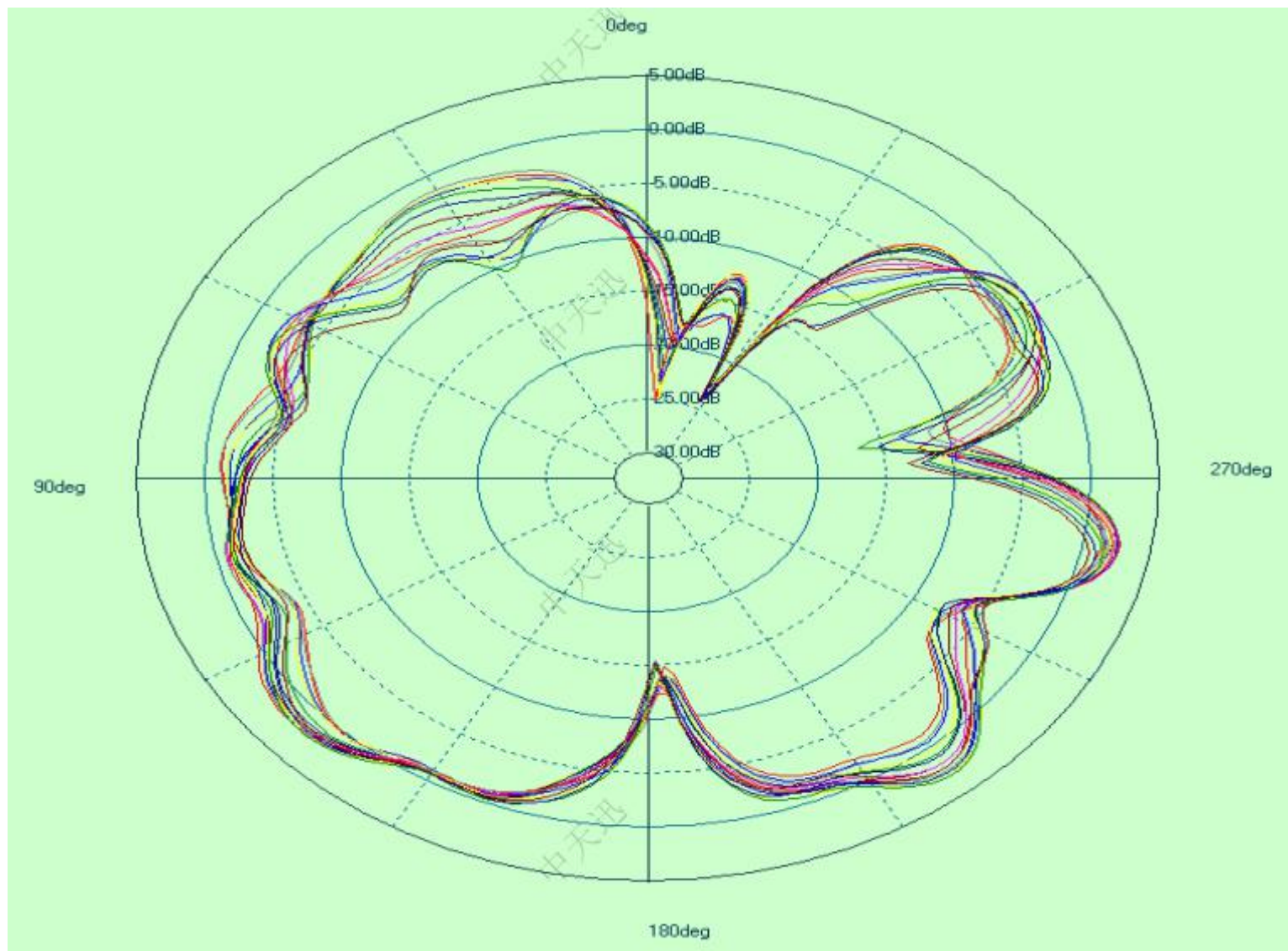
X0Y面 (Z=0) 5G



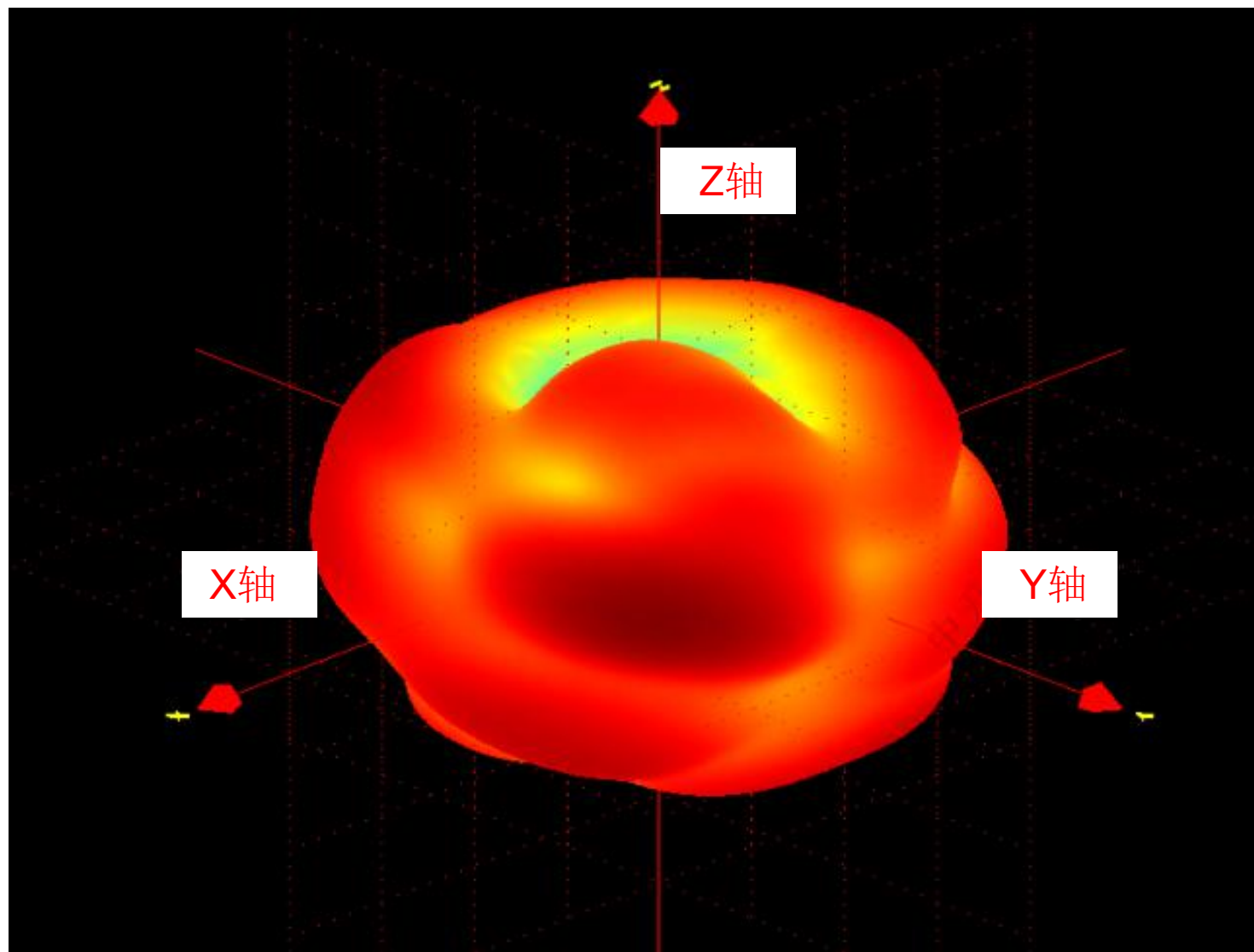
XOZ面 (Y=0) 5G



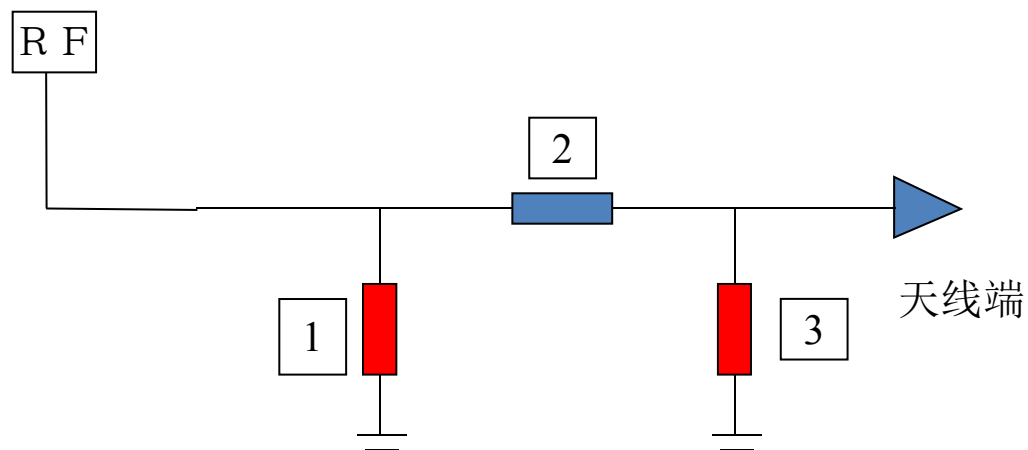
Y0Z面 (X=0) 5G



3D辐射图 5G



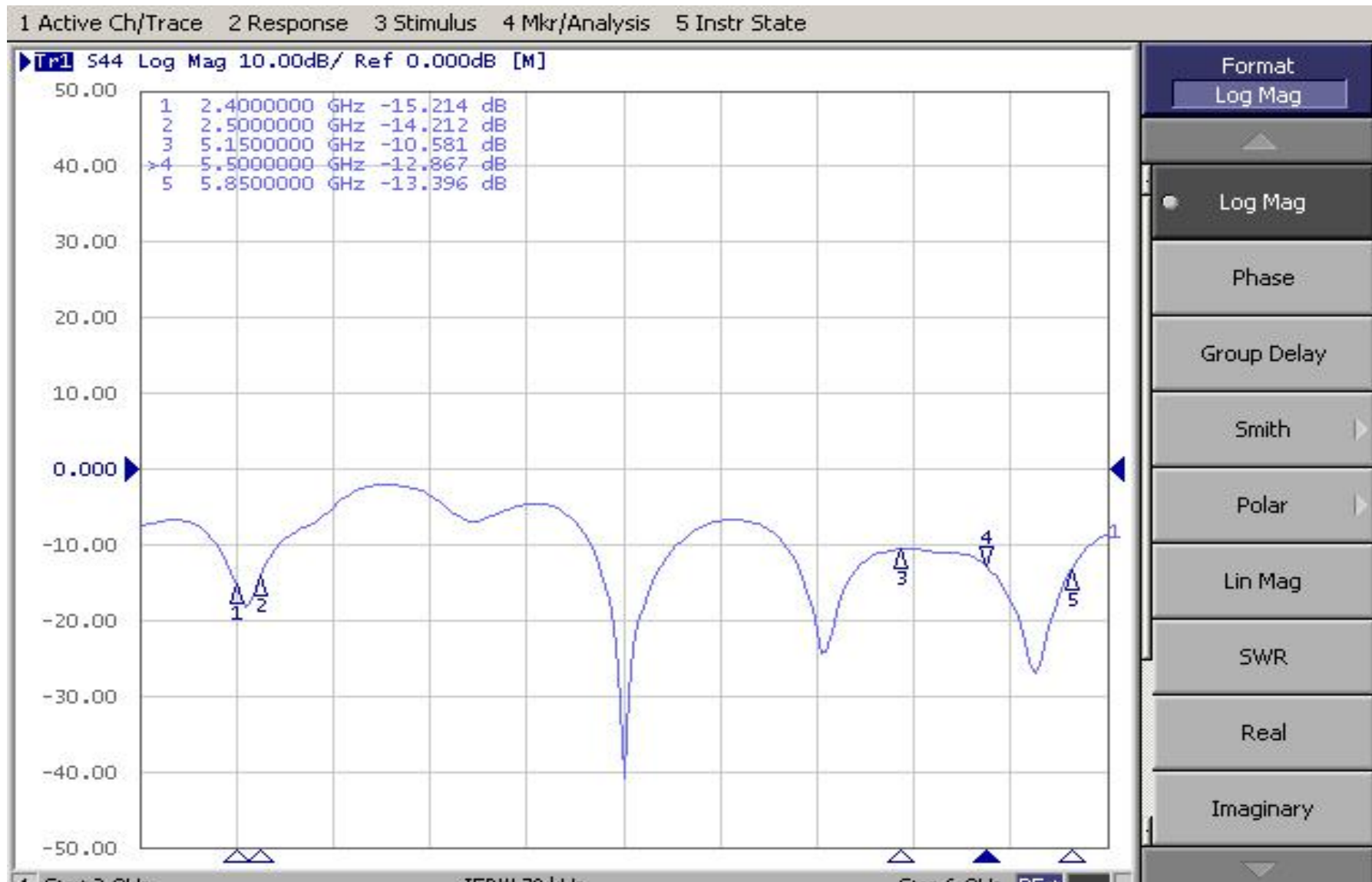
匹配电路



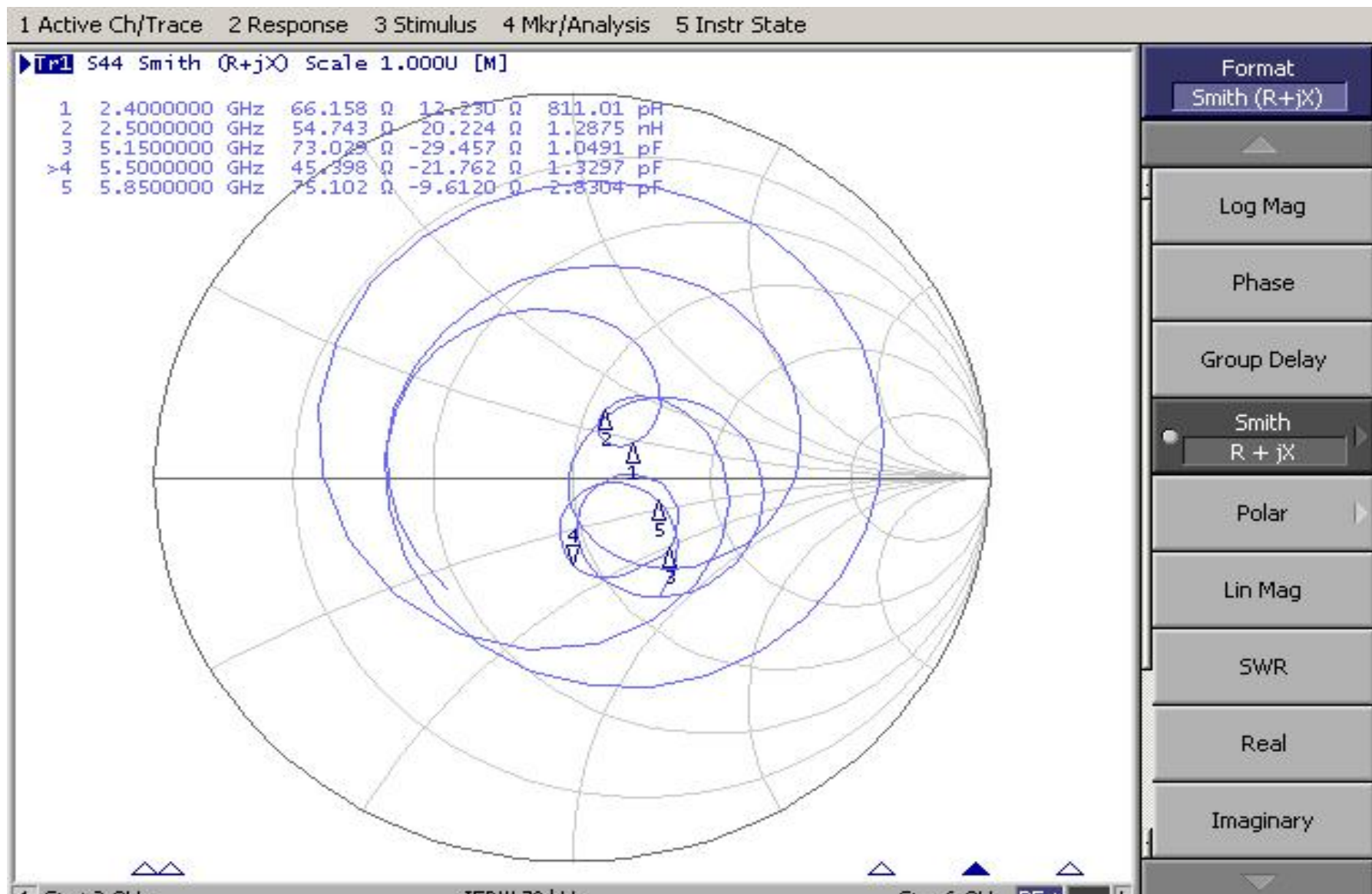
元件编号	1	2	3
原始	NF	0Ω	NF
更改后	NF	0Ω	NF

匹配电路未做更改

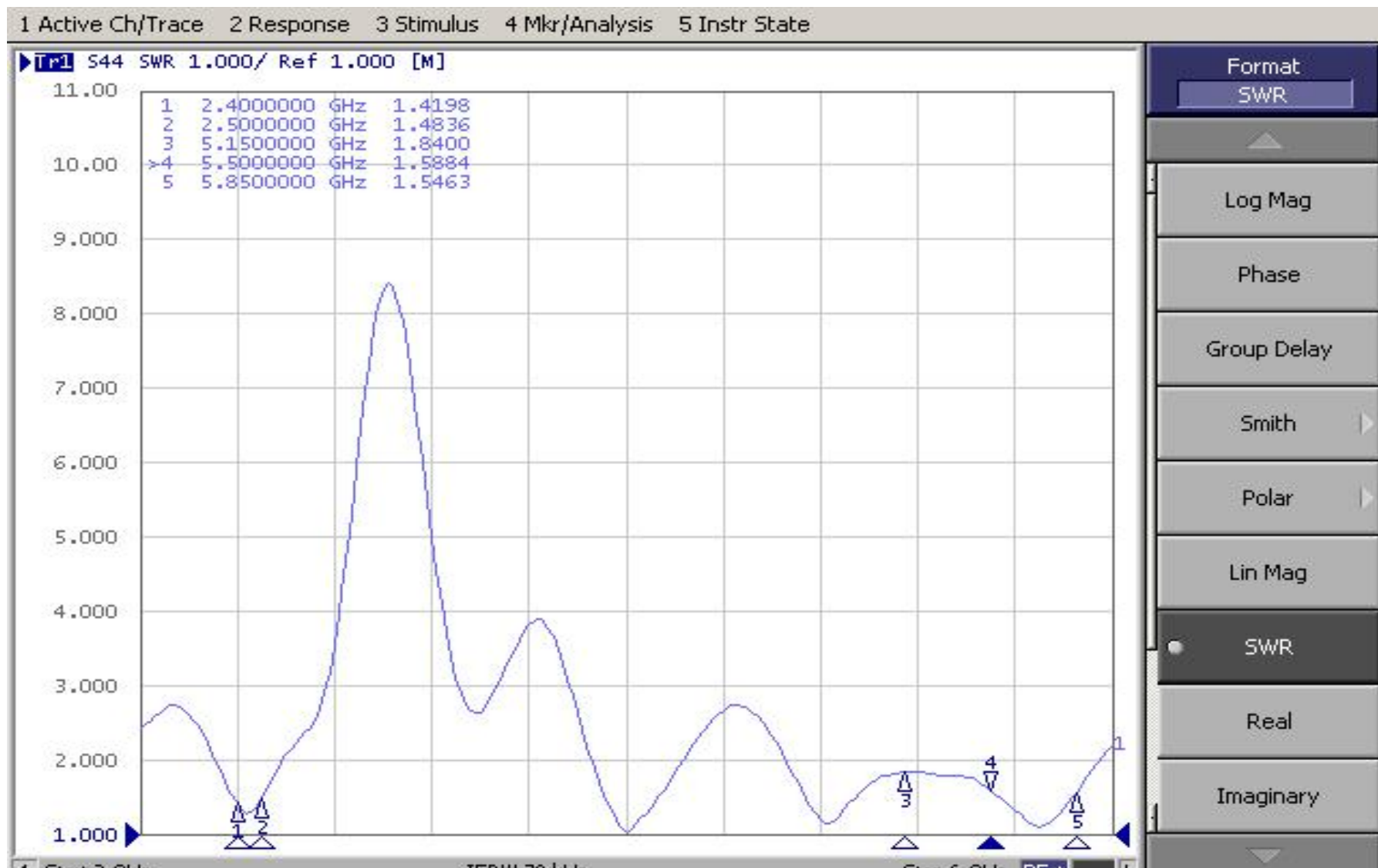
回波损耗图



史密斯圆图



驻波图

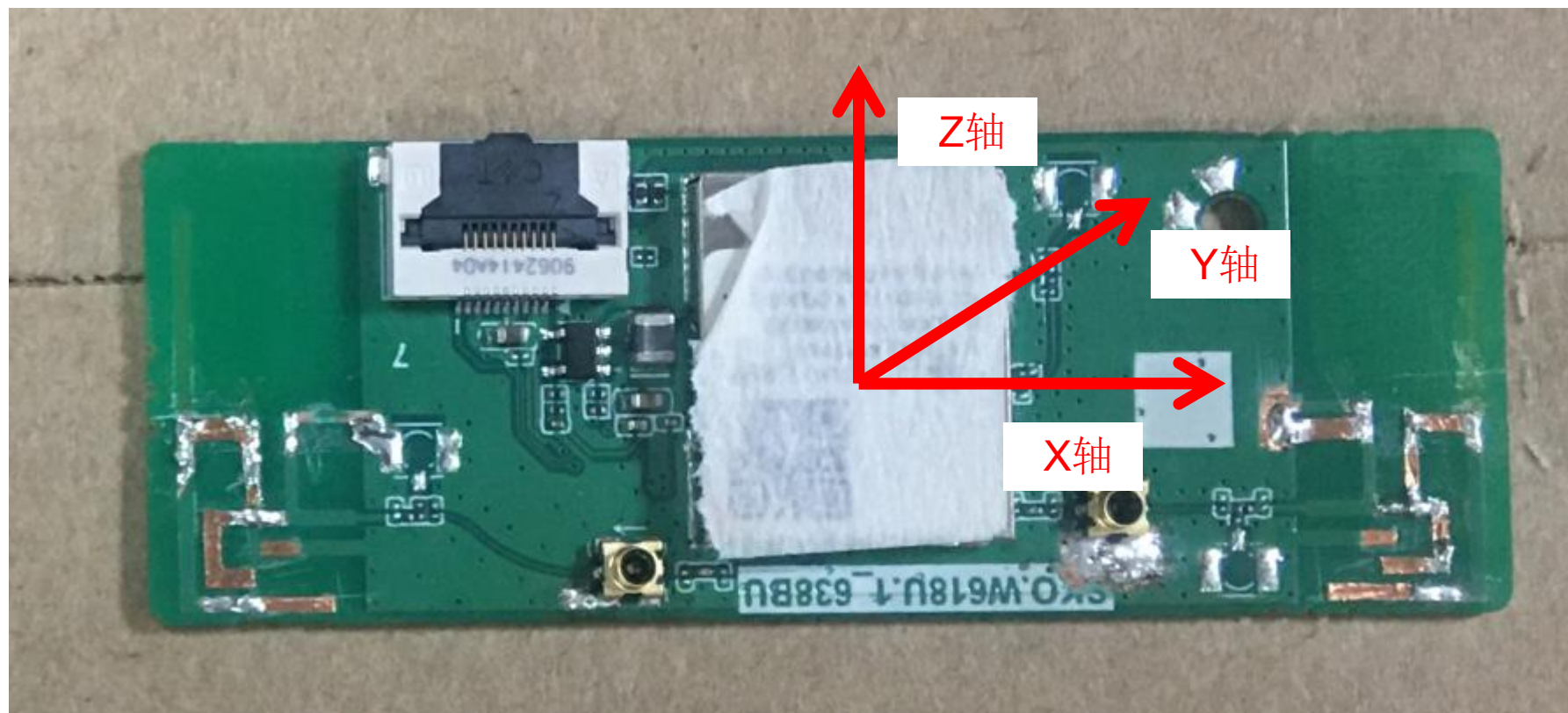


效率和增益

Frequency	Efficiency	Gain. dB
2.40E+09	62%	1.49
2.41E+09	63%	1.54
2.42E+09	64%	1.42
2.43E+09	65%	1.60
2.44E+09	66%	1.70
2.45E+09	66%	1.71
2.46E+09	66%	1.76
2.47E+09	65%	1.81
2.48E+09	64%	1.78
2.49E+09	63%	1.78
2.50E+09	64%	1.61

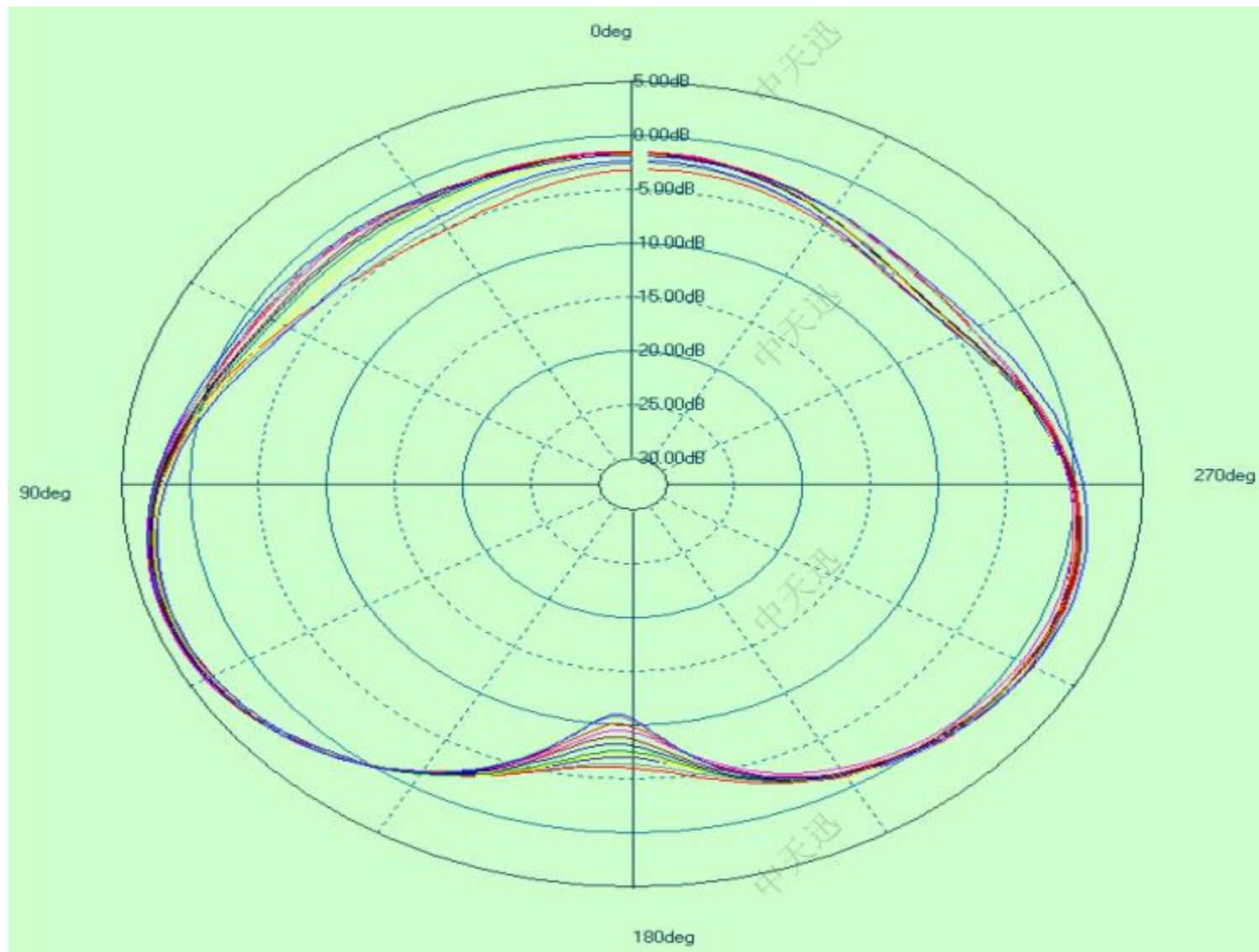
Frequency	Efficiency	Gain. dB
5.15E+09	63%	1.36
5.20E+09	64%	1.68
5.25E+09	65%	1.81
5.30E+09	65%	1.78
5.35E+09	66%	1.78
5.40E+09	68%	1.74
5.45E+09	67%	1.45
5.50E+09	68%	1.41
5.55E+09	67%	1.78
5.60E+09	65%	1.91
5.65E+09	65%	2.03
5.70E+09	64%	1.94
5.75E+09	63%	2.02
5.80E+09	64%	1.43
5.85E+09	63%	1.53

方向示意图

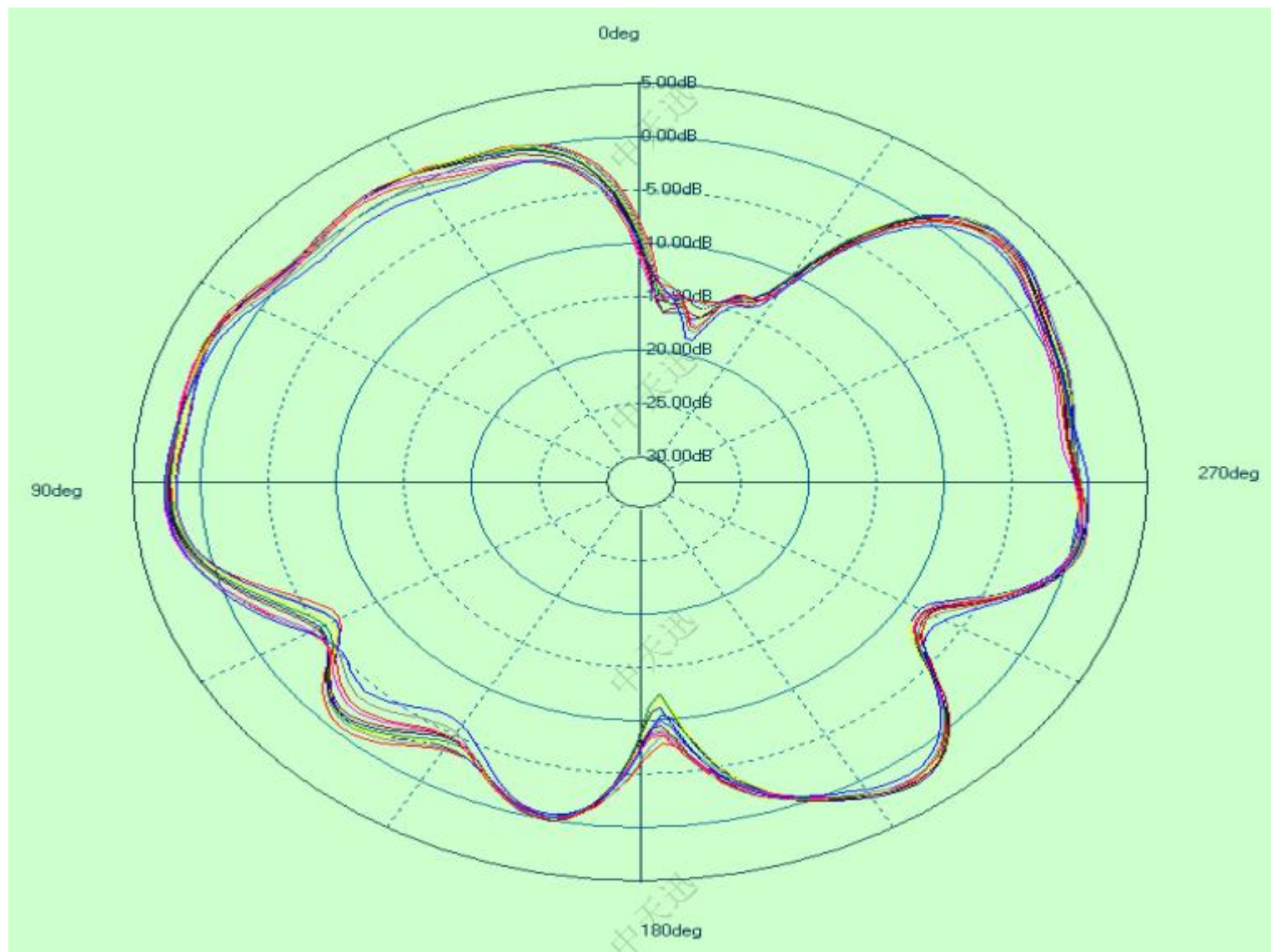


X轴指平行于PCB板正面向右；
Y轴指垂直于PCB板正面向后；
Z轴指平行于PCB板正面向上。

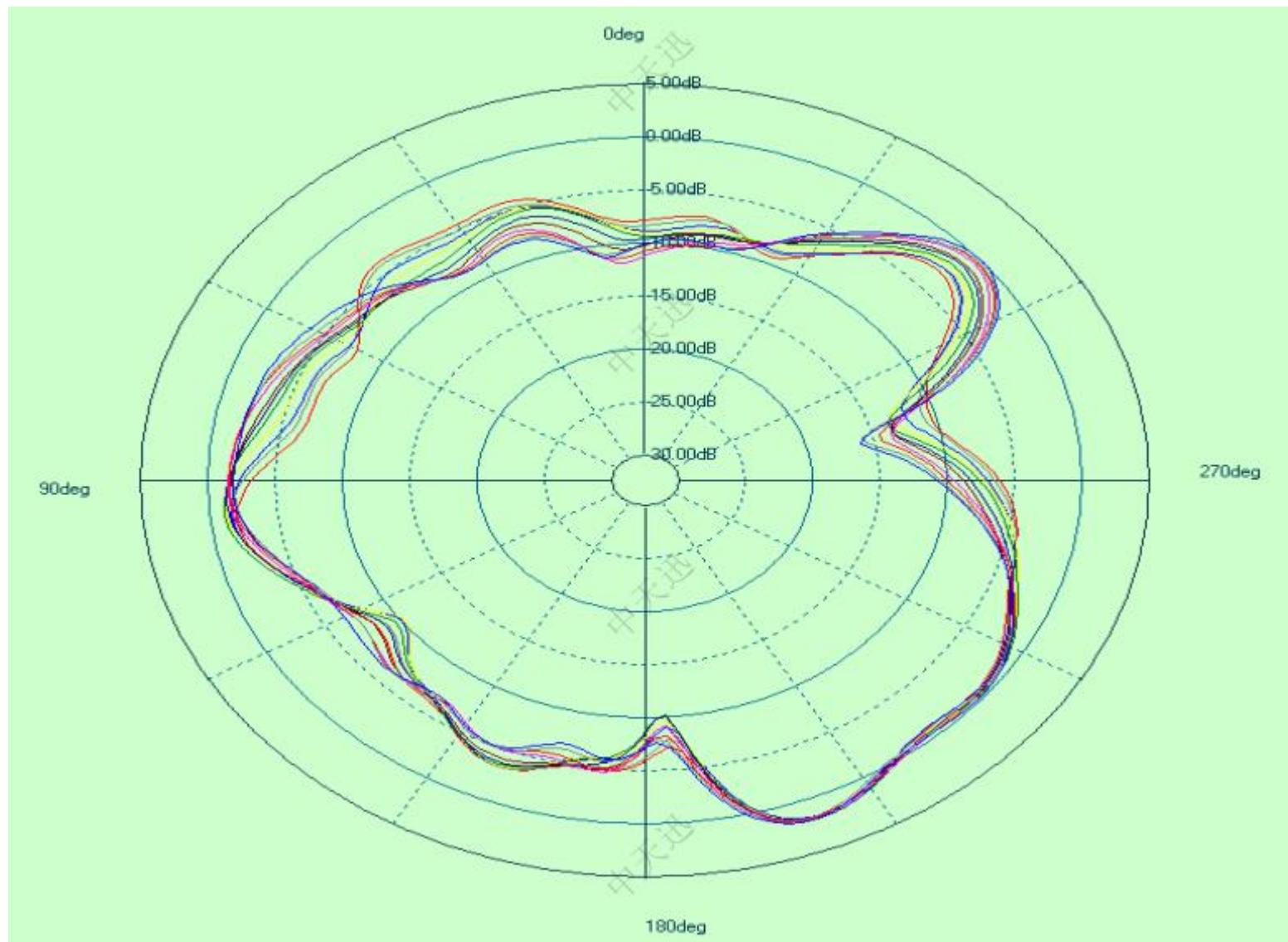
XOY面 (Z=0) 2.4G



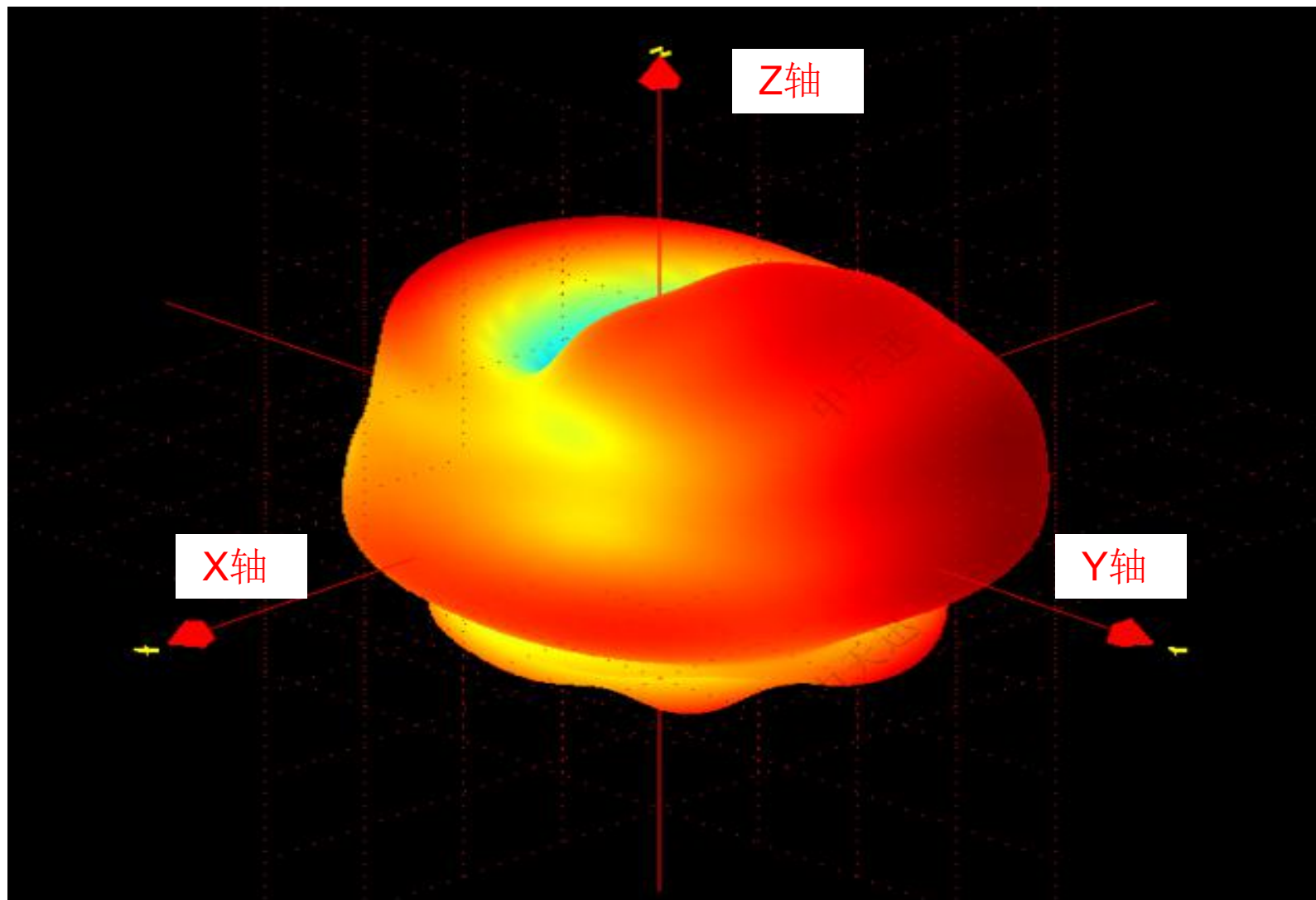
XOZ面 (Y=0) 2.4G



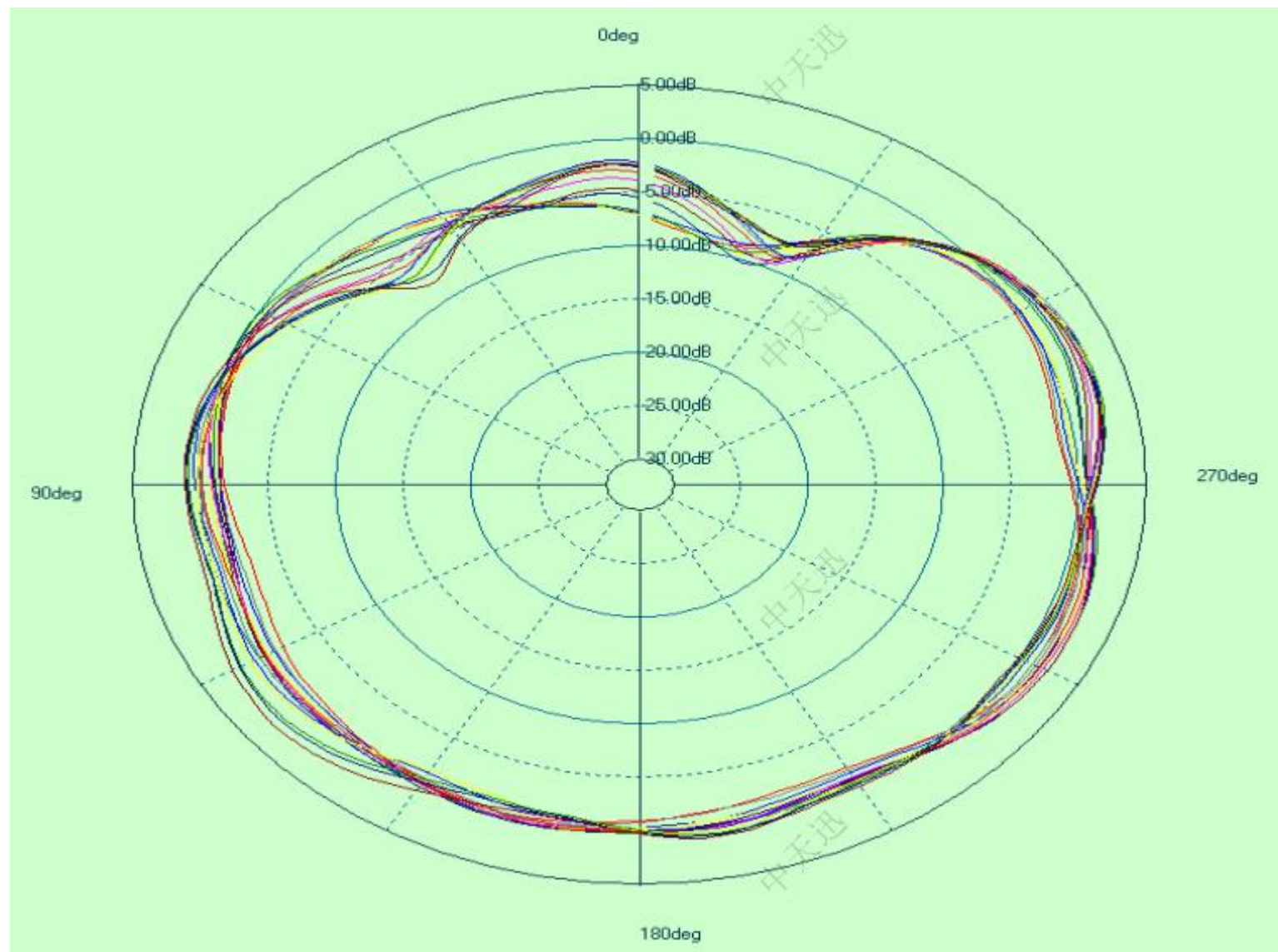
Y0Z面 (X=0) 2.4G



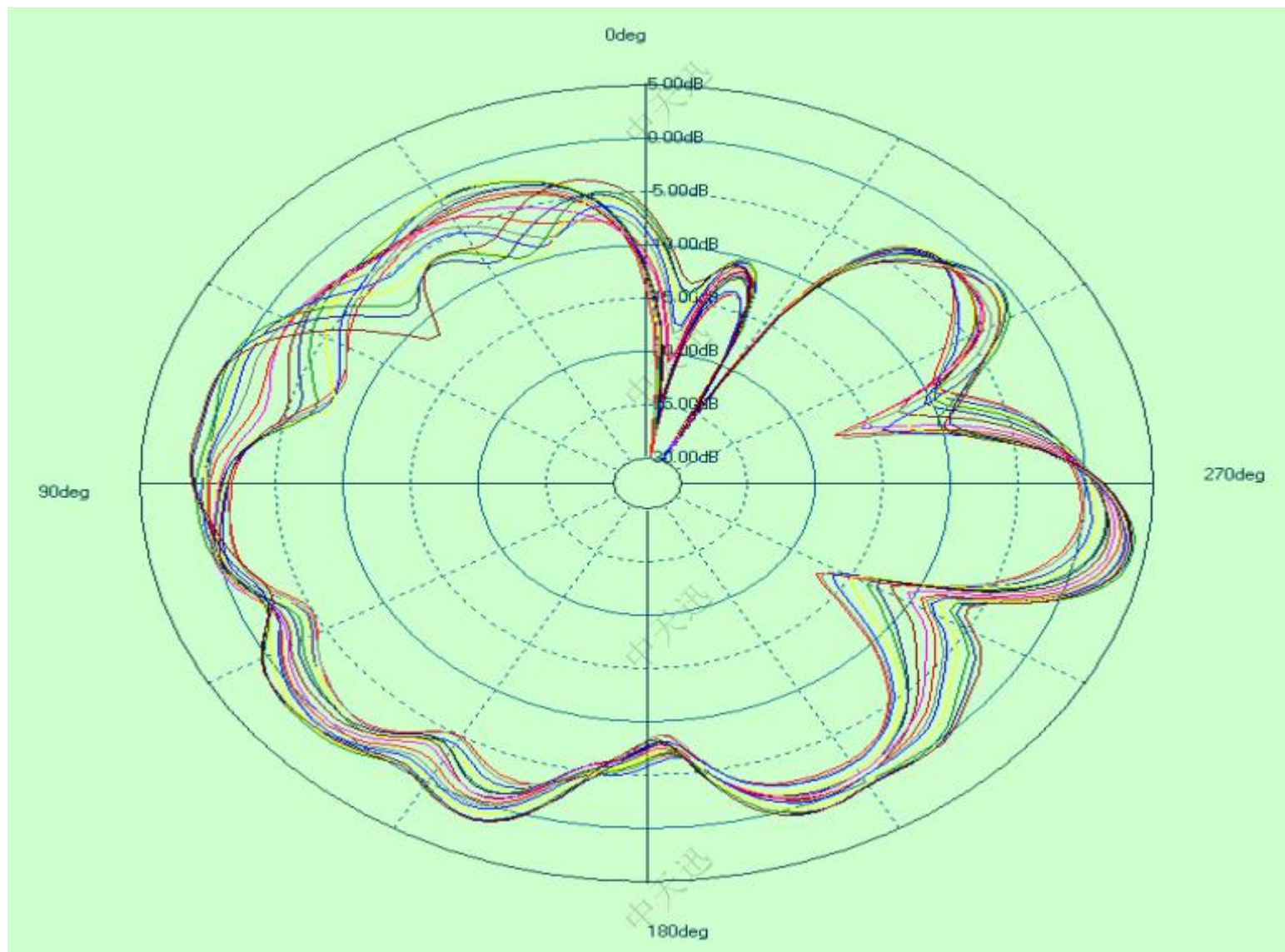
3D辐射图 2.4G



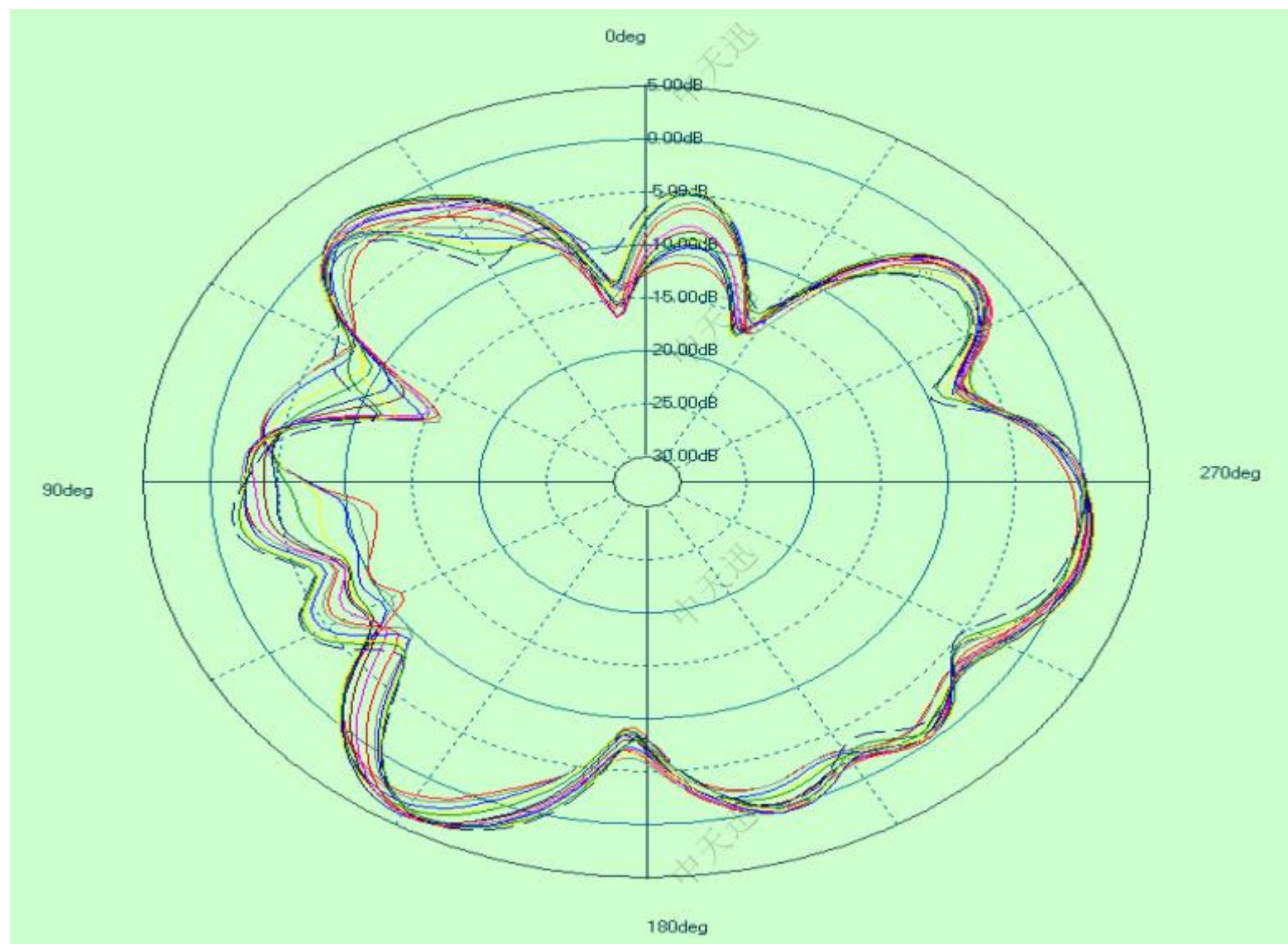
X0Y面 (Z=0) 5G



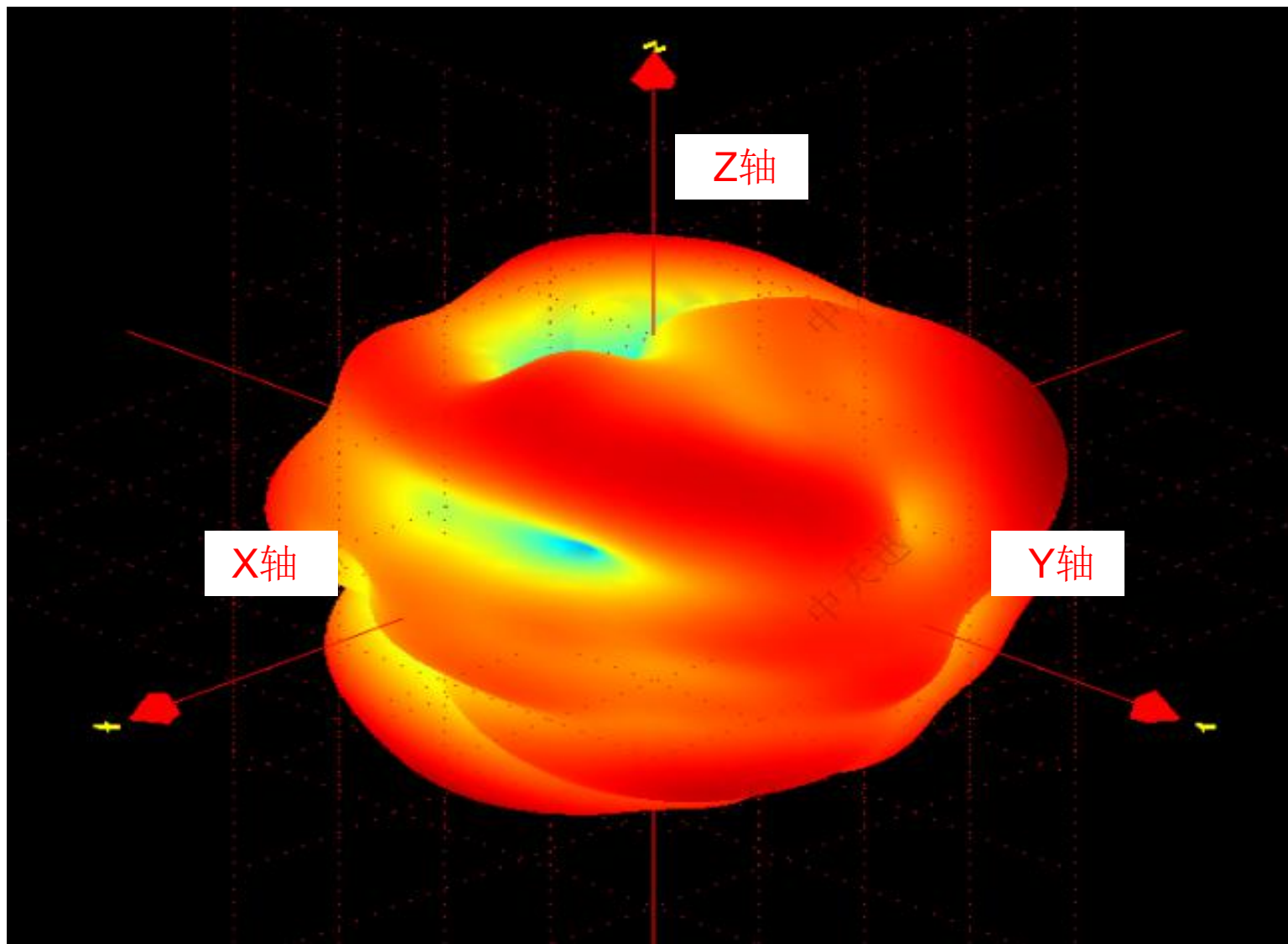
X0Z面 (Y=0) 5G



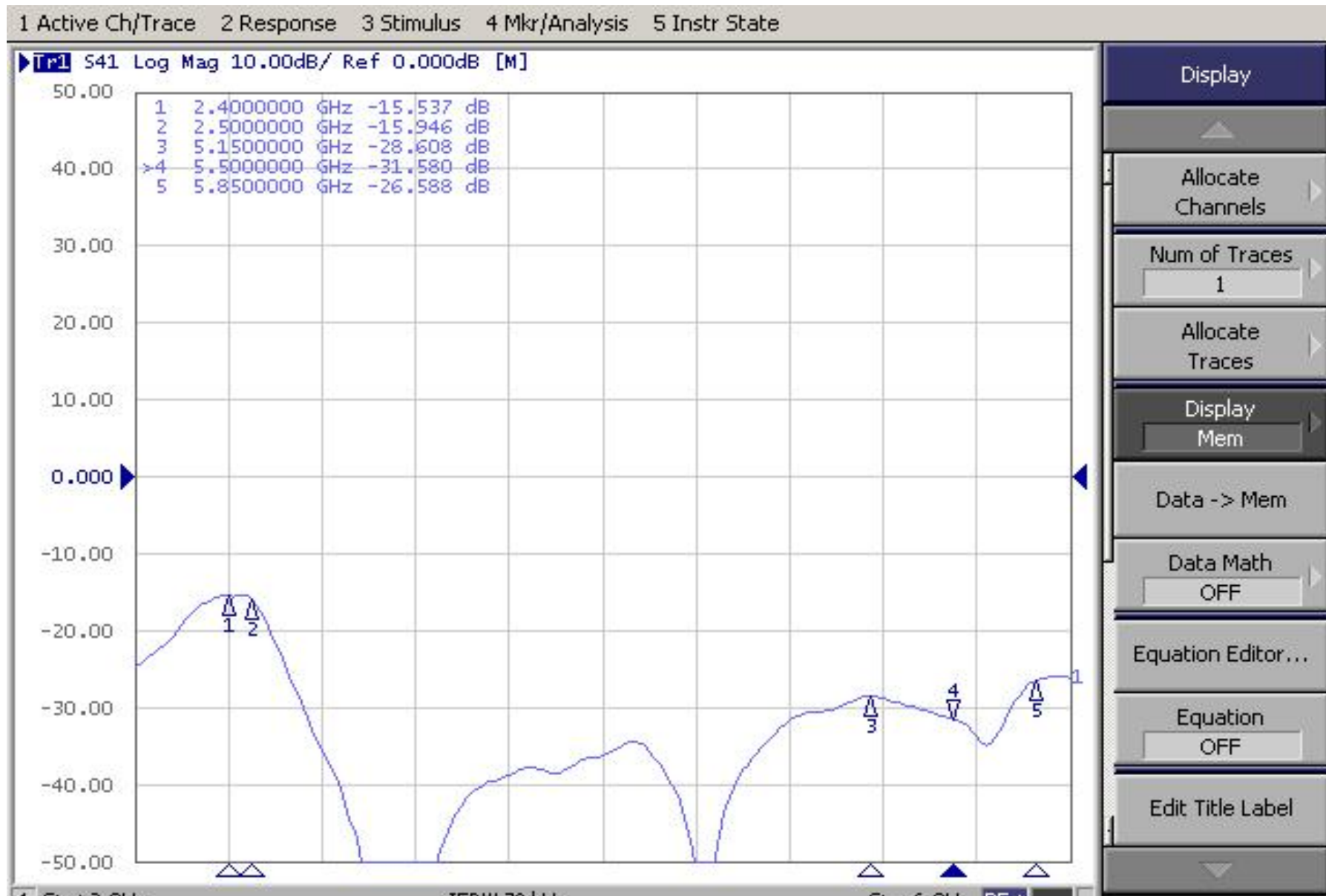
Y0Z面 (X=0) 5G



3D辐射图 5G



测试数据 (WIFI-1天线与WIFI-2天线隔离度)





谢 谢！

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