Advanced Technology & Communications

A91B2_Antenna Report

2024.05.20

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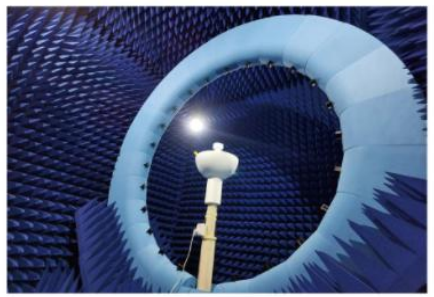
公司简介

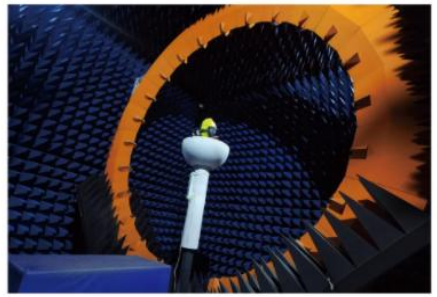
爱特恩科技（深圳）有限公司成立于2016年，公司位于深圳市，是一家专业的通讯电子产品配件的解决方案提供商和制造商。集天线研发、生产、销售于一体的高新科技企业。

公司主要从事与开发安防类、智能家居类的电子产品。 目前拥有3座微波暗室、模拟人头手测试、网络分析仪等 。

我们致力与客户建立长期稳定的商业合作关系，始终坚持“顾客至上，锐意进取”的经营理念，为我们的客户提供最具竞争力的价格，最好的质量和优质的服务。

AT&C 专注品质 | 质量第一 | 共赢未来





拥有SATIMO原装实验室7M*5M*5M的24探头一座
益麦3.5MX3.5MX3.5M的24探头一座
频率范围均为400MHZ-8.5GHZ
2/3/4/5G、
WIFI A/B/G/N/AC/AX
BT
GPS
NB-10T等有源测试，
拥有模拟人头手测试设备

拥有AGILENT5071系列网络分析仪、AGILENT8960、RS CMW500、4438C等终端测试设备,提供天线性能测试。

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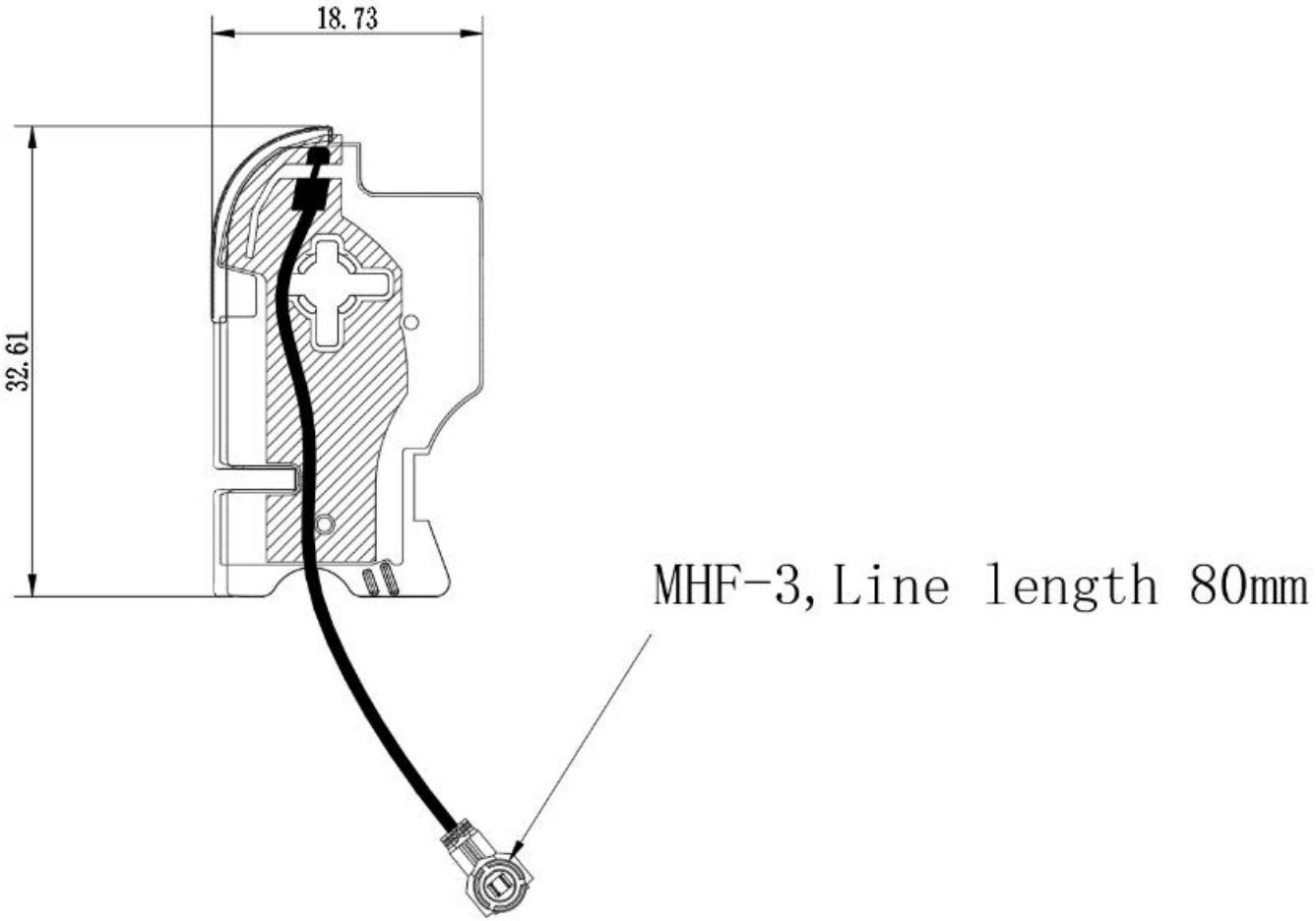
1. Type of the antenna（天线类型）： FPC+CABLE
2. The name of the antenna （天线名字）： A91B2 ATC V1.3
3. Coverage （覆盖范围）: 2400 ~ 2500MHz(WIFI2.4G).



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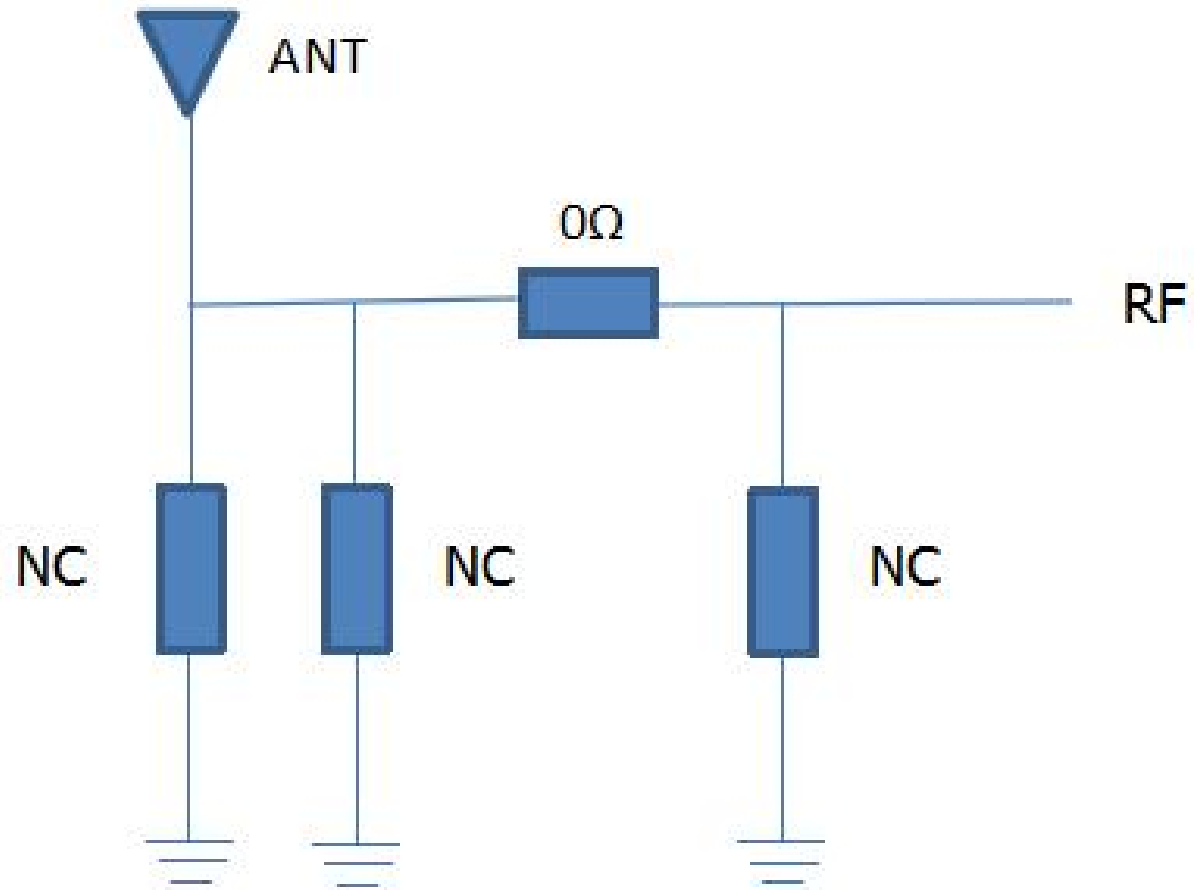
matches are unchanged



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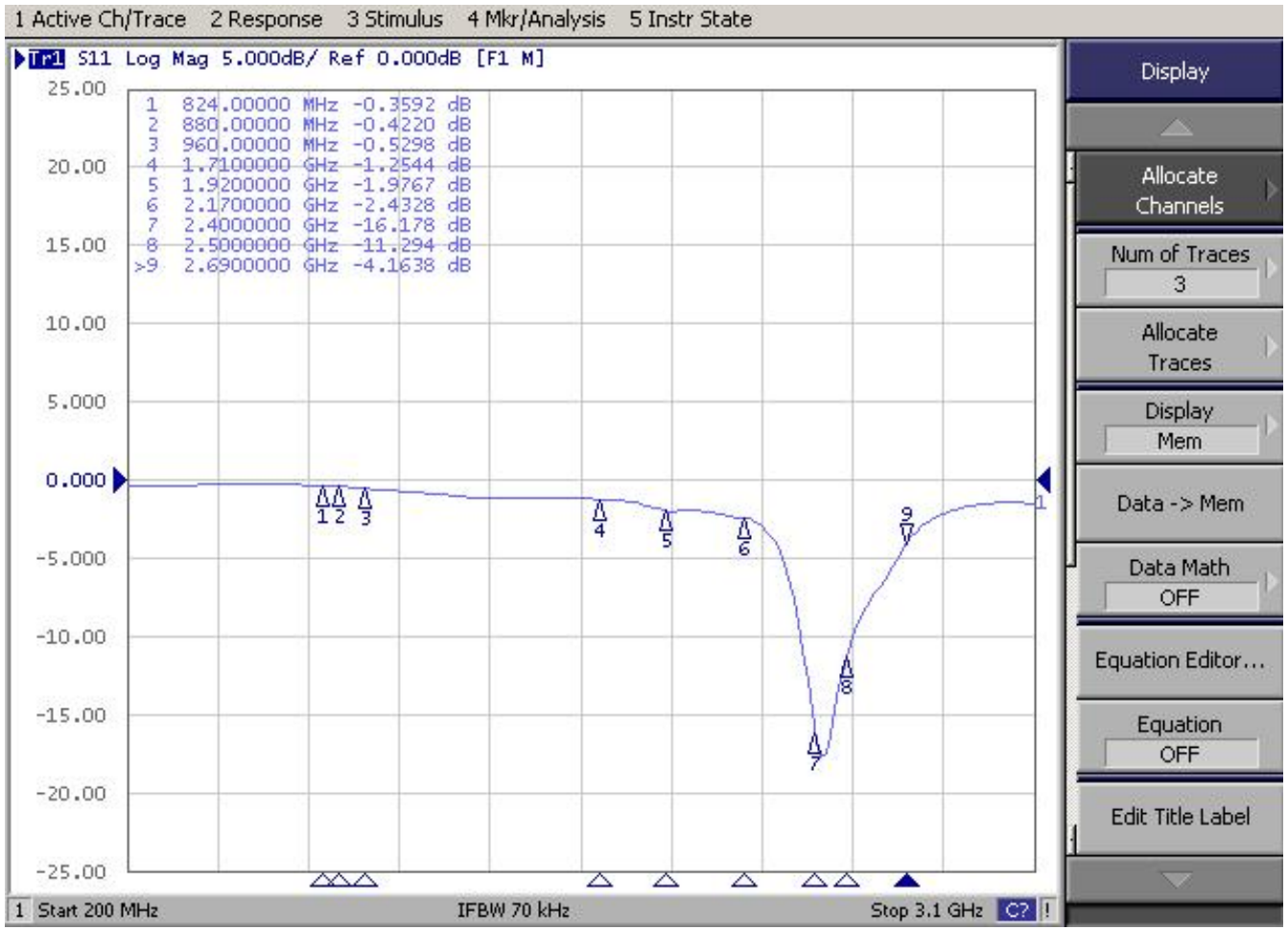

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● A91B2_ Efficiency & Gain（效率和增益）

1. 无源效率：超过40%，天线性能基本达标。(Passive efficiency: over 40%, antenna performance basically meets the standard)

(2.4G) Passive Test **Results(无源测试结果)**			
Frequency(MHz)	Efficiency(%)	Efficiency(dB)	Max Gain(dBi)
2400	46.07%	-3.37	2.62
2410	46.05%	-3.37	2.73
2420	45.94%	-3.38	2.85
2430	44.87%	-3.48	2.83
2440	42.59%	-3.71	2.58
2450	41.23%	-3.85	2.31
2460	40.87%	-3.89	2.19
2470	41.69%	-3.80	2.37
2480	41.26%	-3.84	2.44
2490	40.11%	-3.97	2.47
2500	38.80%	-4.11	2.42
AVG:	42.68%	-3.70	2.53

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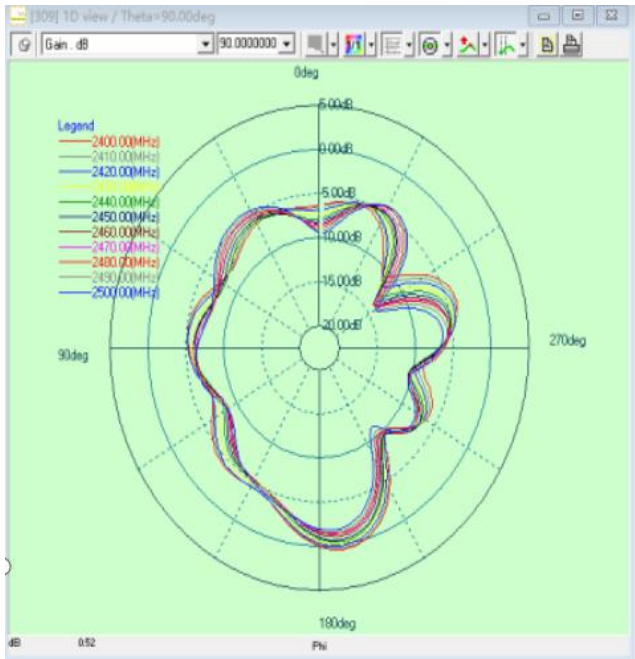
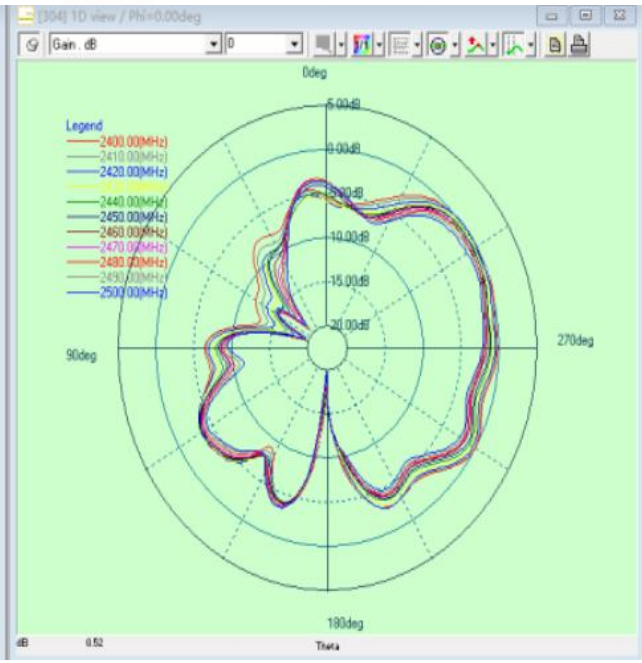
● A91B2_ 2D Radiation Pattern（2D辐射方向图）

1. Azimuth Pattern H-Plane（水平方向图为H平面）：“H”, X-Y plane
2. Elevation Pattern E1, E2-Plane（垂直方向图为E1, E2-平面）：“E1”, “E2”, X-Z plane(E1), Y-Z plane(E2)
3. It is a structure that supplements the distortion of the horizontal plane in the vertical plane and has a gentle sphere shape in three dimensions.（它是三维球面方向图，在二维水平和垂直的剖面）

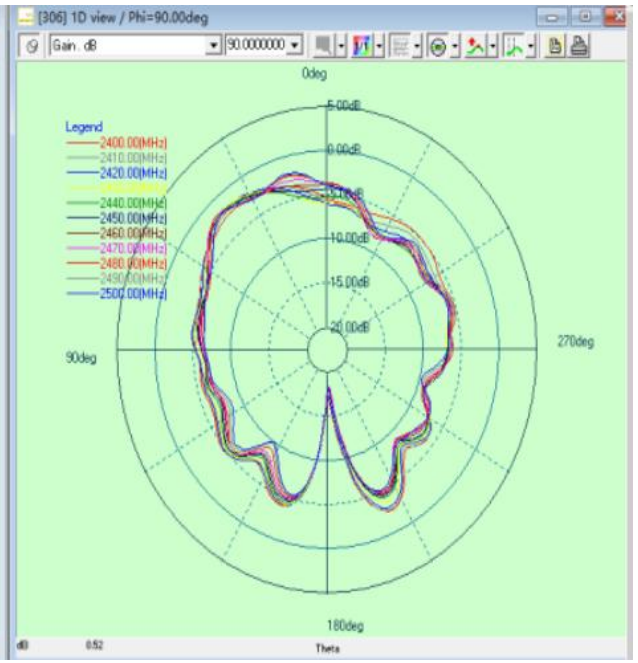
H



E1



E2



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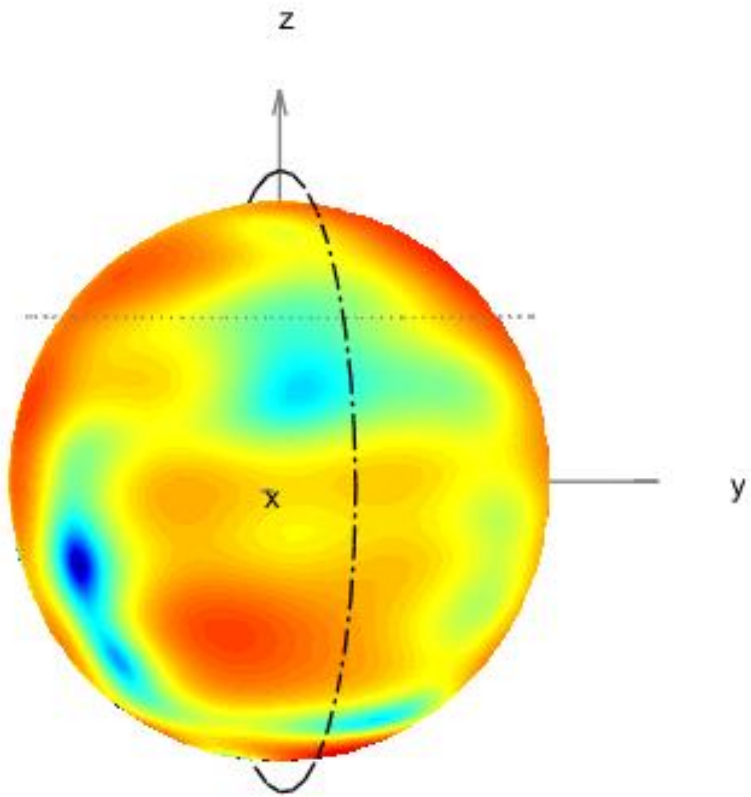
● A91B2_ Performance : 3D Radiation Pattern（3D辐射方向图）

1. This 3D Radiation Pattern shows the response of each angle antenna gain on the sphere.（此3D辐射图显示了每个角度天线增益在球体上的反应）
2. The objects corresponding to the X-Y-Z axes are shown in the left picture.（与X-Y-Z轴相对应的方向如左图所示）

2400MHz



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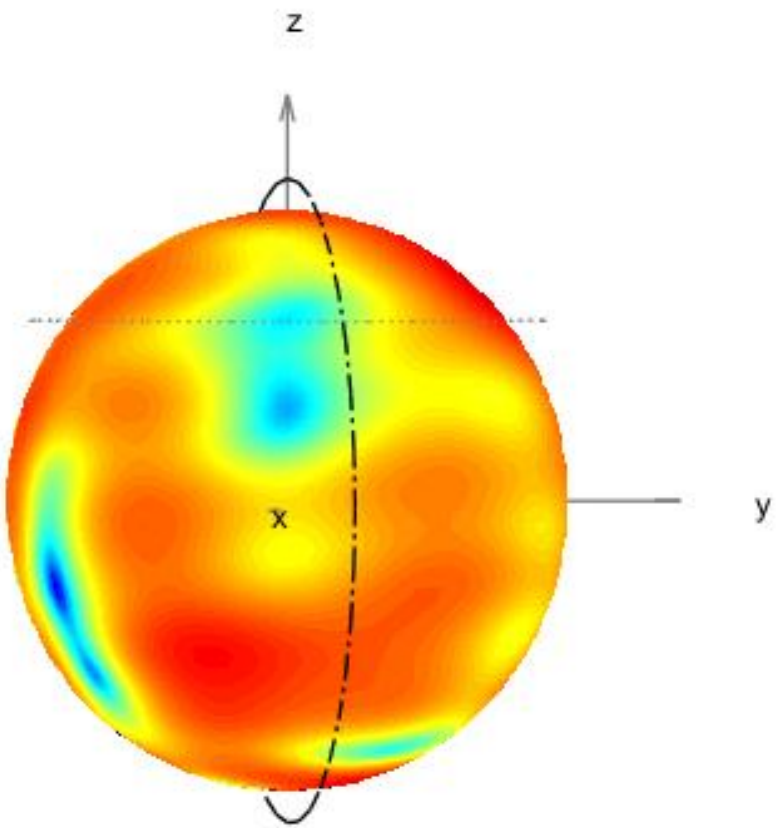
2450MHz



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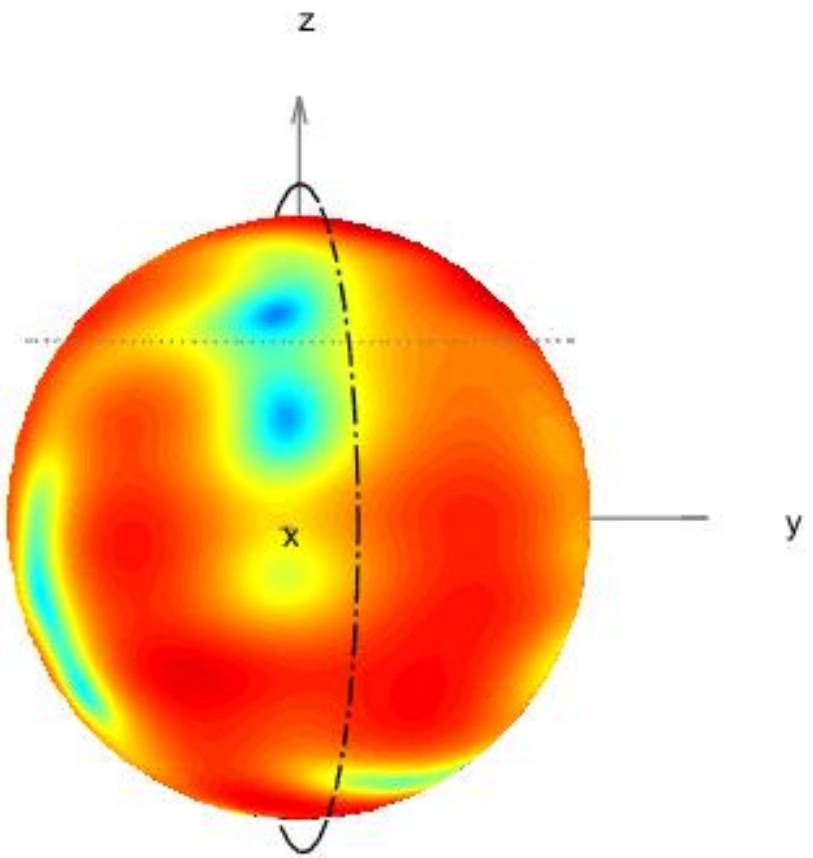
2500MHz



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● A91B2_ Antenna Summary（天线总结）

1. The antenna meets the basic performance requirements.（天线满足基本的性能要求）

*** Please let me know if there is a change in the device. And if have any questions, please communicate promptly***

（如果机器有变化，请通知我司；如果有任何问题，请及时沟通）

Thank You!!

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