



Advanced Technology & Communications

A91B2_Antenna Report

2024.05.20

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公司简介

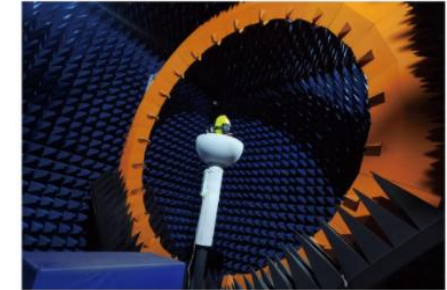
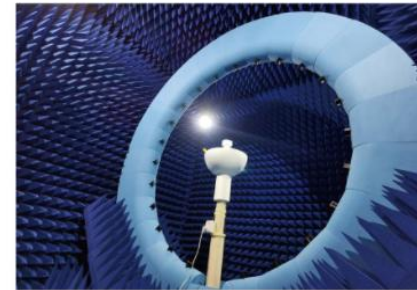
爱特恩科技（深圳）有限公司成立于2016年，公司位于深圳市，是一家专业的通讯电子产品配件的解决方案提供商和制造商。集天线研发、生产、销售于一体的高新科技企业。

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。

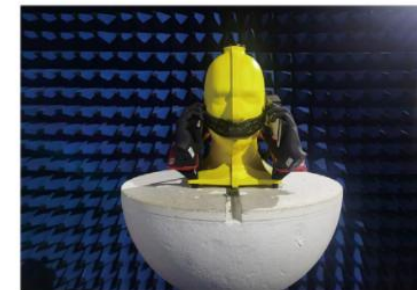
我们致力与客户建立长期稳定的商业合作关系，始终坚持“顾客至上，锐意进取”的经营理念，为我们的客户提供最具竞争力的价格，最好的质量和优质的服务。



专注品质 | 质量第一 | 共赢未来



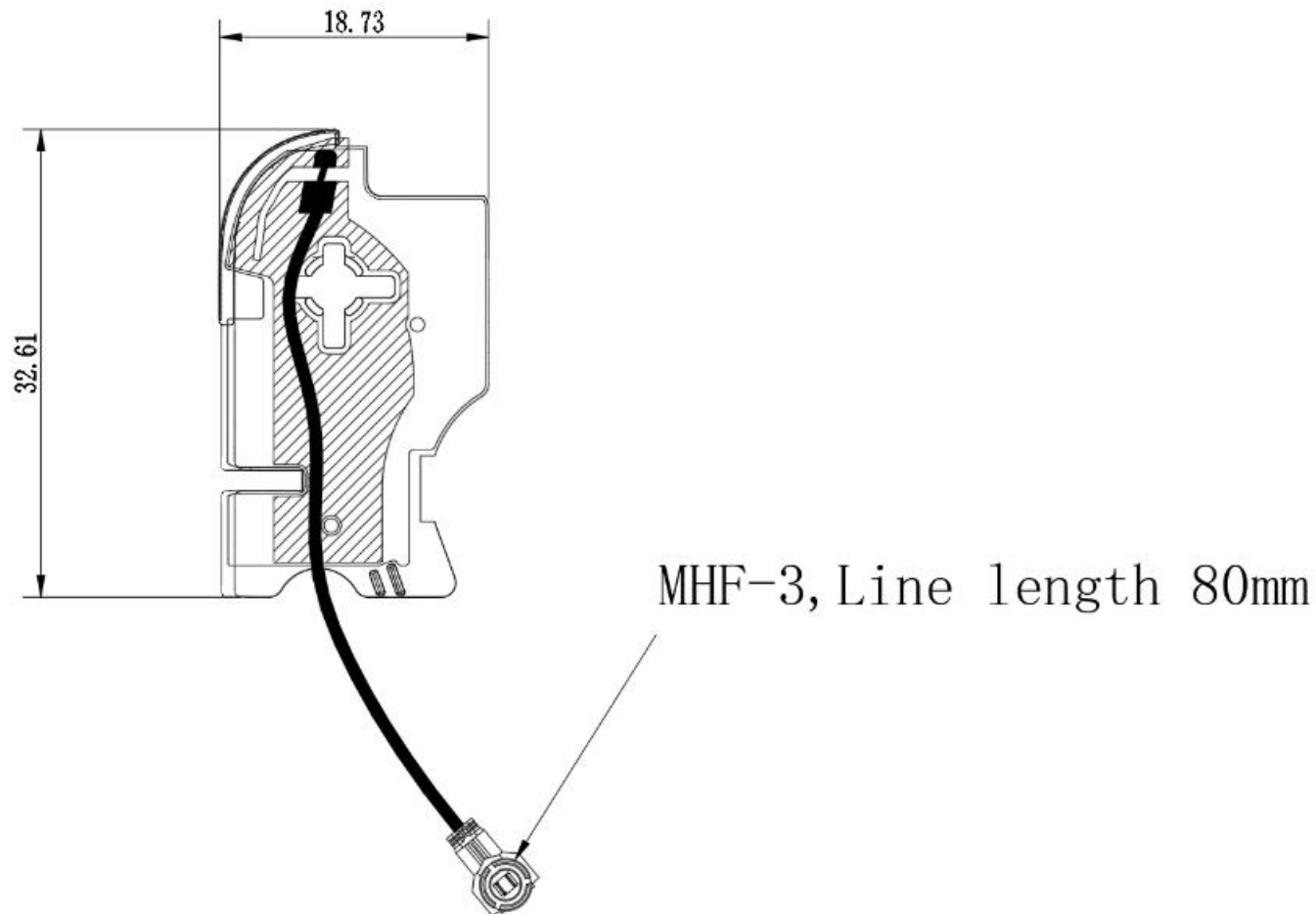
拥有SATIMO原装实验室7M*5M*5M的24探头一座
 益麦3.5MX3.5MX3.5M的24探头一座
 频率范围均为400MHZ-8.5GHZ
 2/3/4/5G、
 WIFI A/B/G/N/AC/AX
 BT
 GPS
 NB-10T等有源测试，
 拥有模拟人头手测试设备



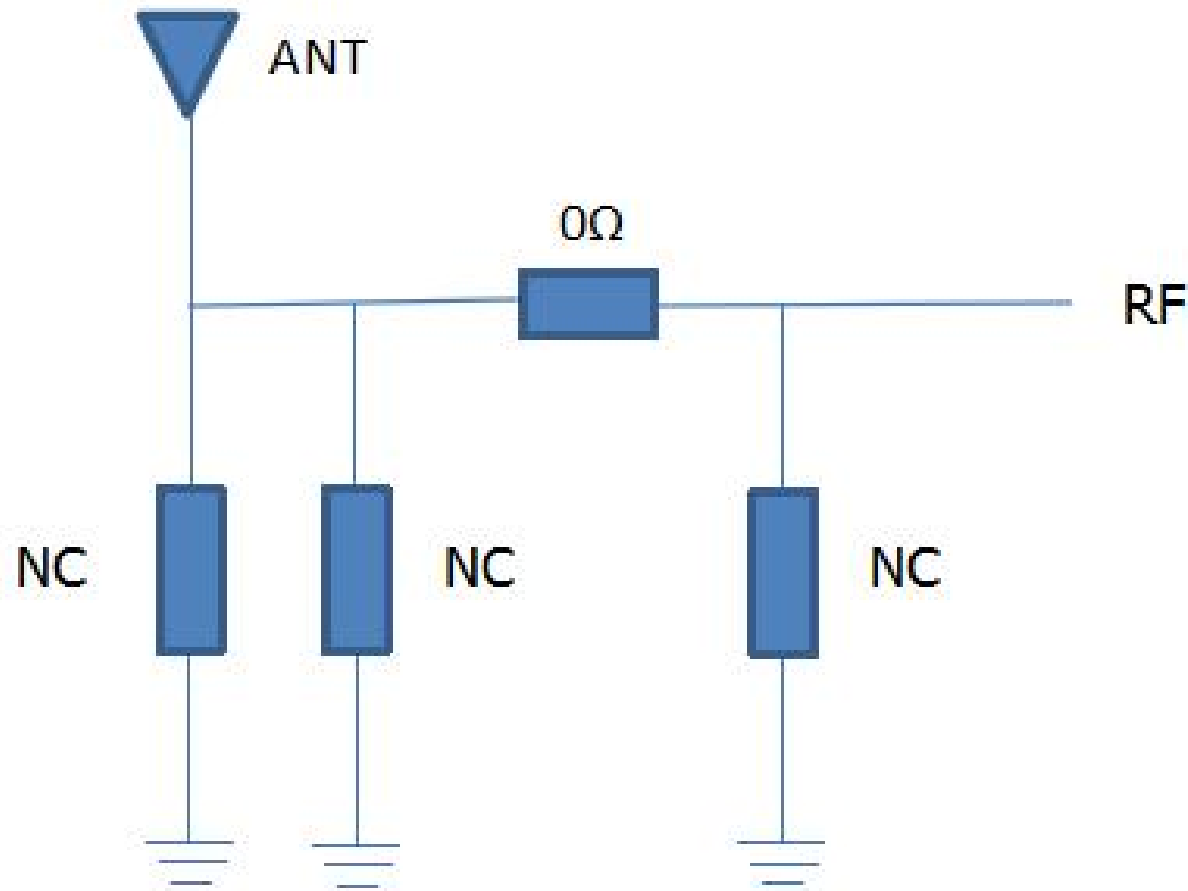
拥有AGILENT5071系列网络分析仪、AGILENT8960、RS CM W500、4438C等终端测试设备，提供天线性能测试。

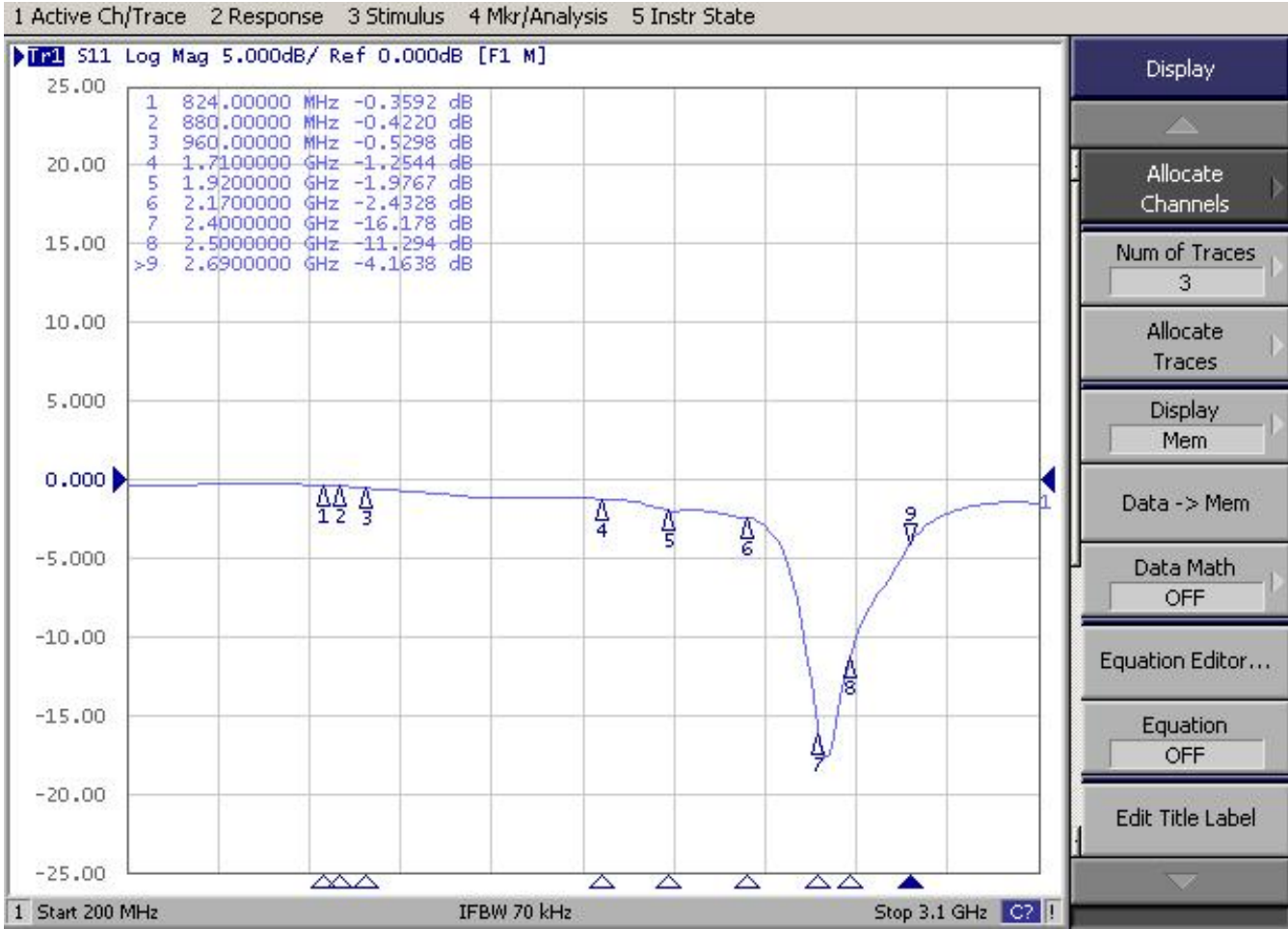
● A91B2_ Antenna Information (天线信息)

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).



matches are unchanged





● 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

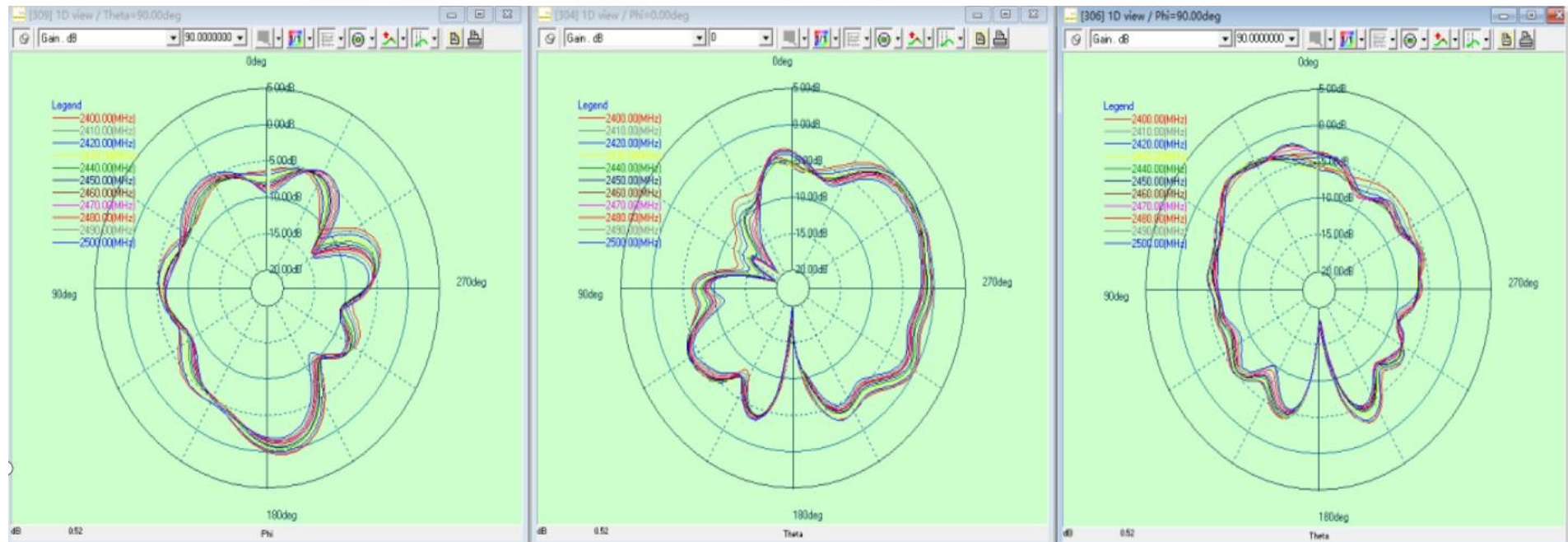
● A91B2_ 2D Radiation Pattern (2D辐射方向图)

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

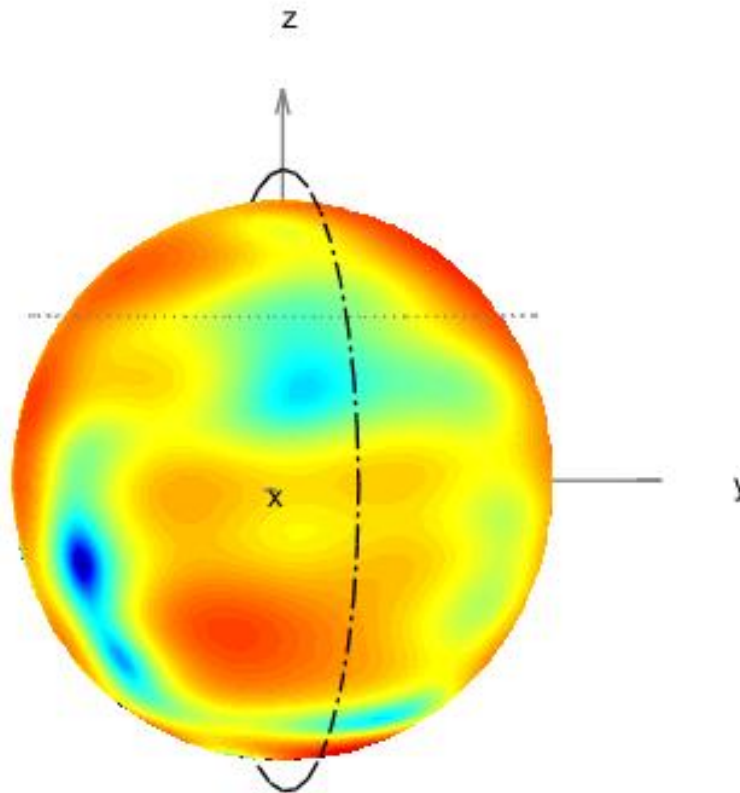
E2



● 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)

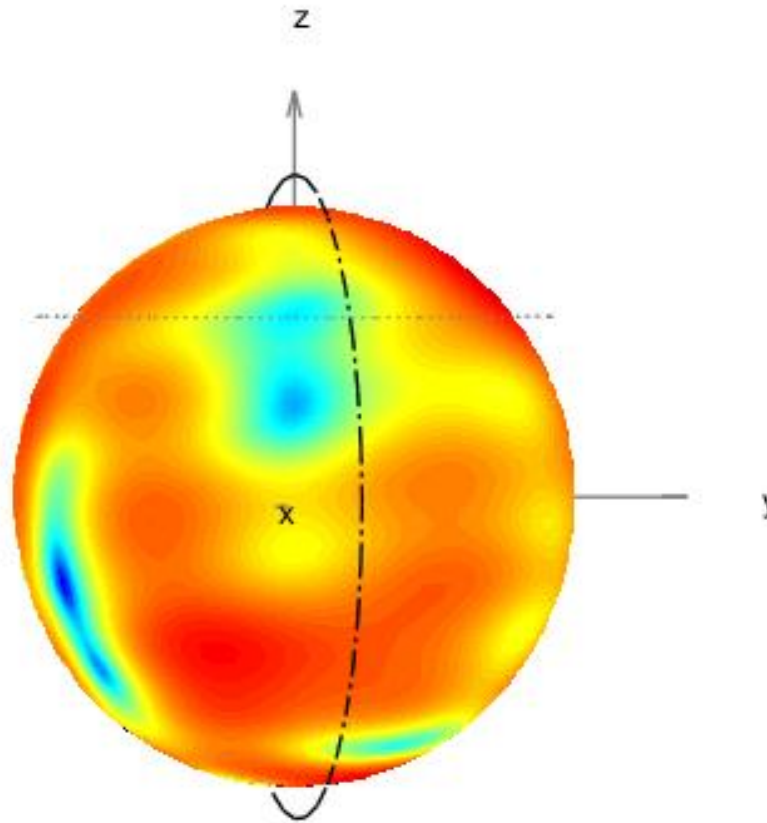
2400MHz



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

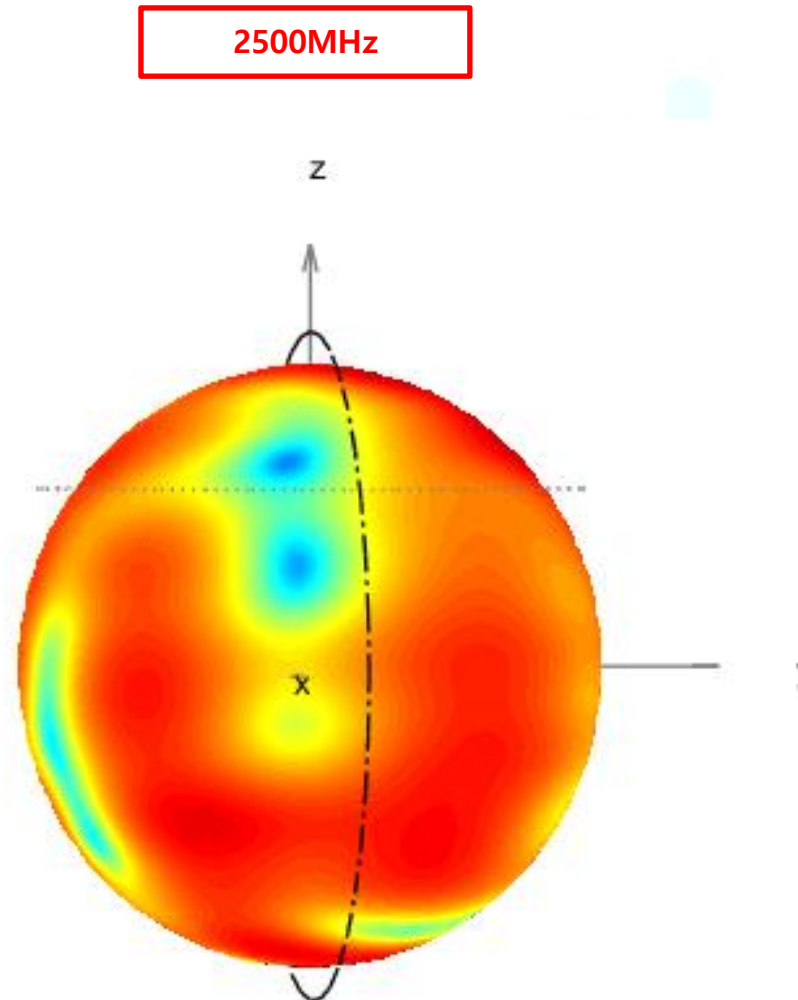
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2450MHz



● 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)



● 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!!