

Passive Antenna Test Report

Project model:NE3034W

Antenna manufacturer:
SHENZHENYINGJIACHUANGEELECTRONICTECHNOLOGYCO.,LTD.

Address of antenna manufacturer:
Building C, Hongyu Guangming Valley, No. 11, Youma Gang Road,
Matan Street, Guangming District, Shenzhen City

Date:2025-02-20

edition	content	Update reason	Date
1.0	Antenna test	Initial issue	2025-2-20

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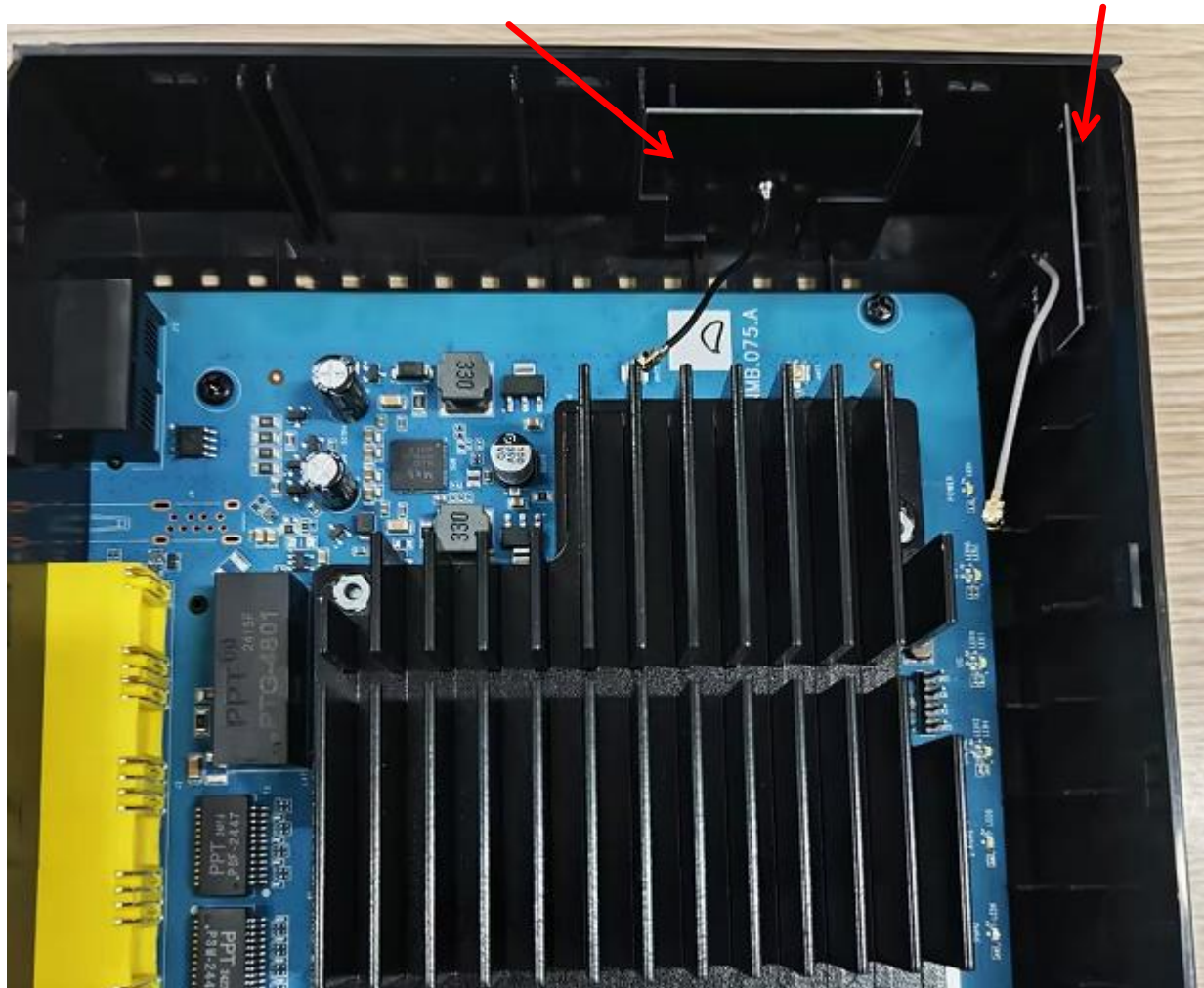
Project situation

Customer Name	1028
Project name	NE3034W
Number of antennas	2
Antenna band	2400–2500/5150–5850 MHz
Structural form	PCB antenna

Antenna and structure form

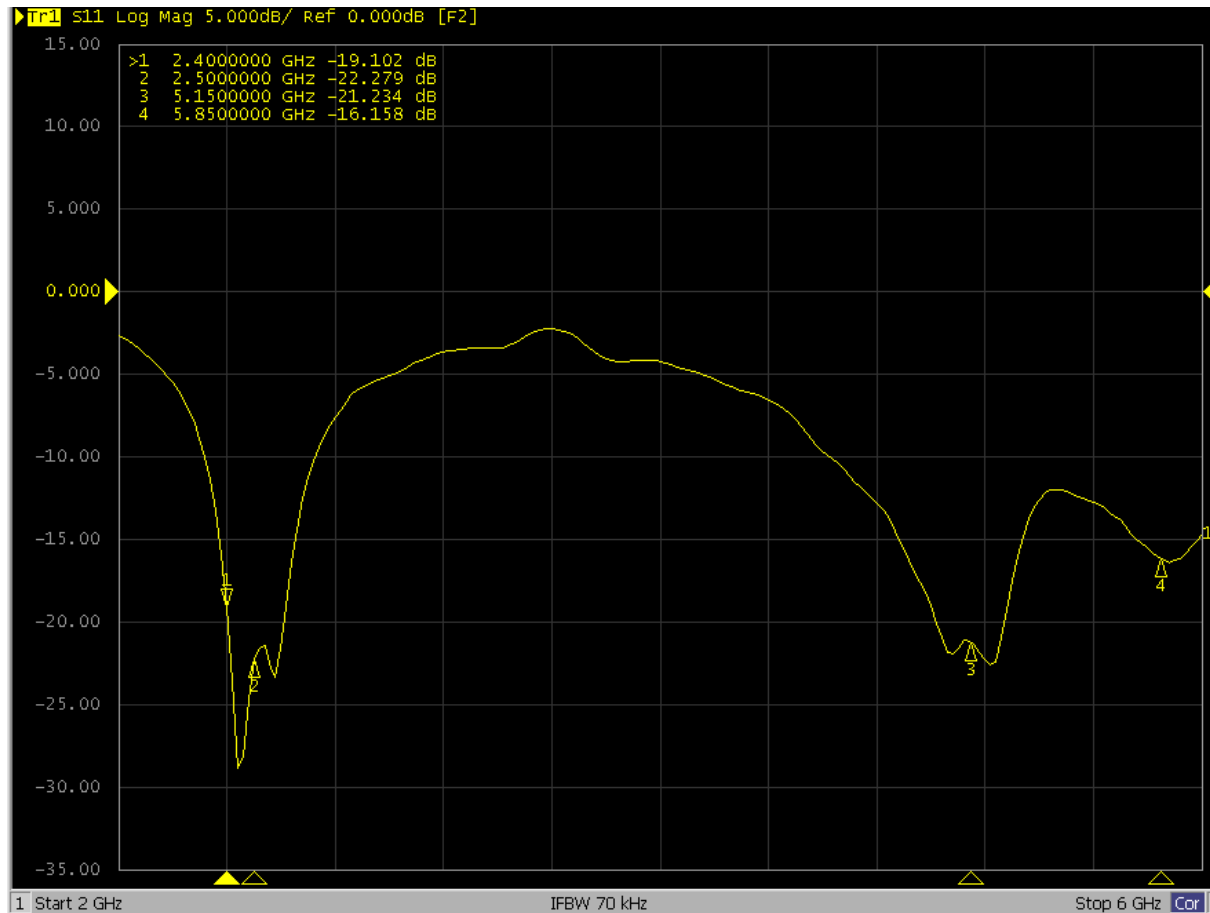
WIFI-2Antenna

WIFI-1Antenna





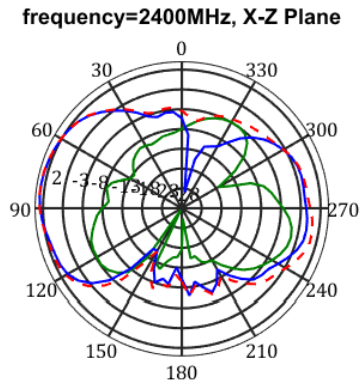
WIFI-1 Antenna network analyzer test diagram



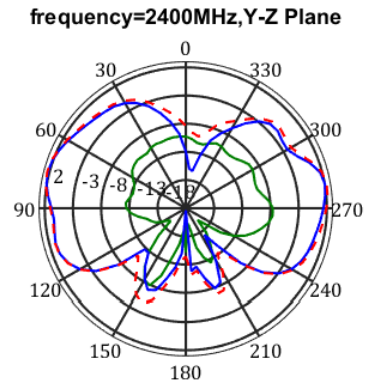
Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	80.86	4.0
2450	81.28	4.1
2500	76.37	3.8
5150	67.31	2.9
5500	66.22	3.6
5850	66.05	3.1

WIFI-1 Antenna test 2D3D diagram

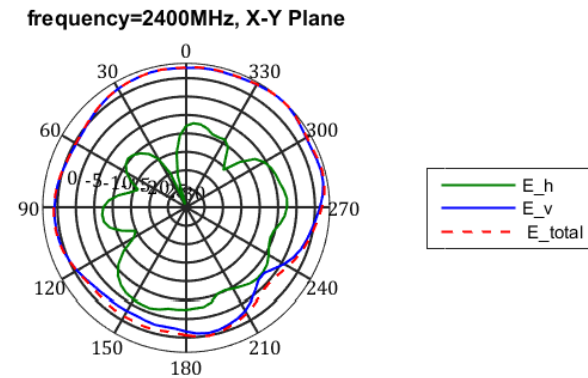
Phi=0



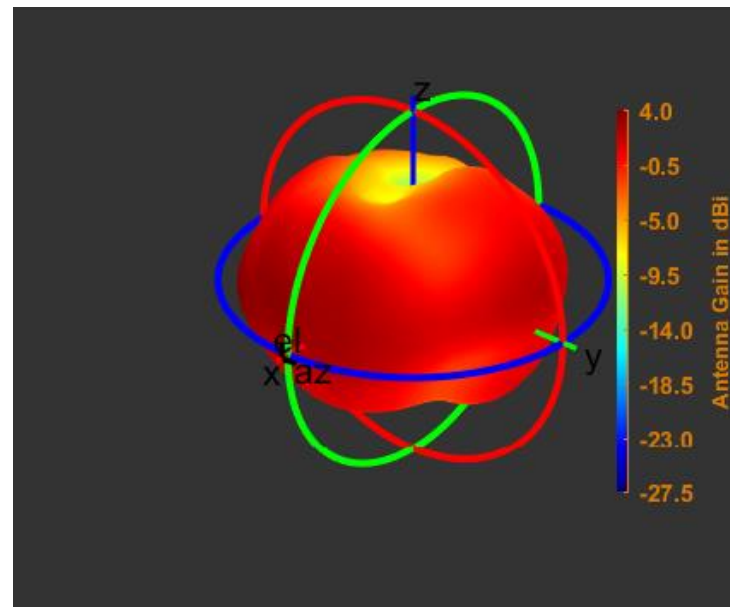
Phi=90



Theta=90



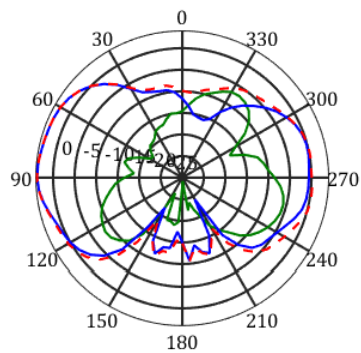
2400MHz



WIFI-1 Antenna test 2D3D diagram

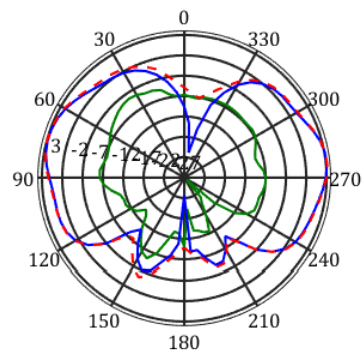
Phi=0

frequency=2450MHz, X-Z Plane



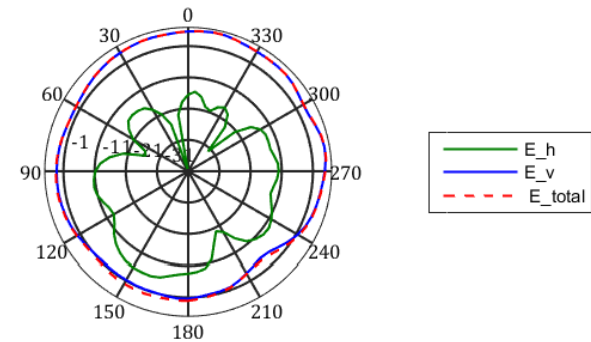
Phi=90

frequency=2450MHz, Y-Z Plane

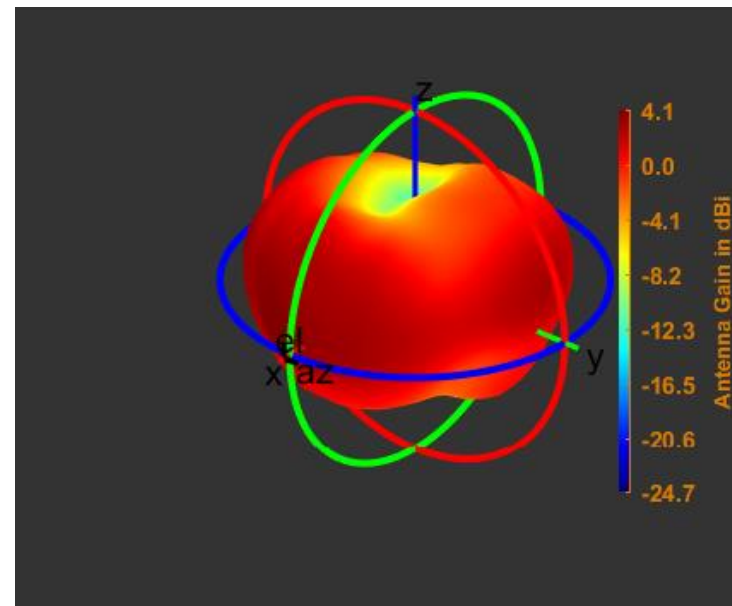


Theta=90

frequency=2450MHz, X-Y Plane



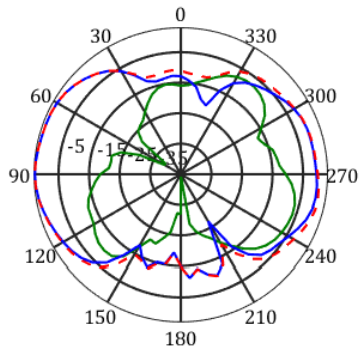
2450MHz



WIFI-1 Antenna test 2D3D diagram

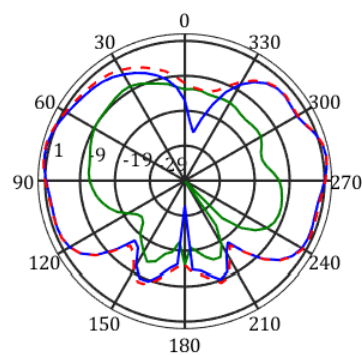
Phi=0

frequency=2500MHz, X-Z Plane



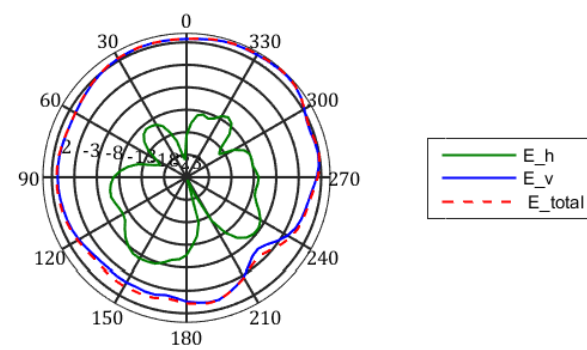
Phi=90

frequency=2500MHz, Y-Z Plane

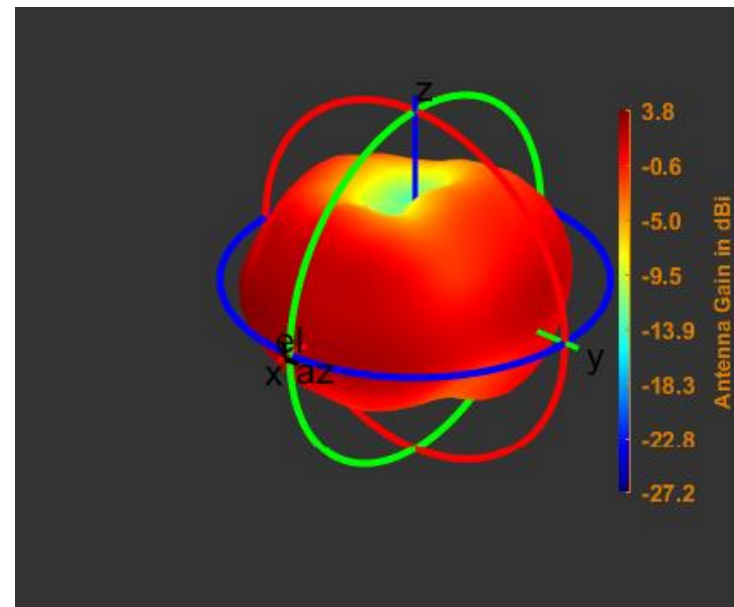


Theta=90

frequency=2500MHz, X-Y Plane



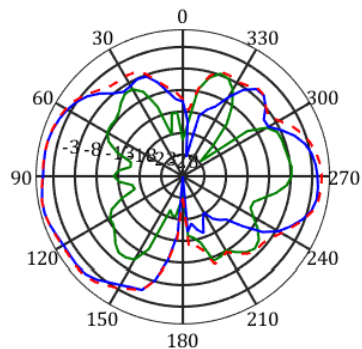
2500MHz



WIFI-1 Antenna test 2D3D diagram

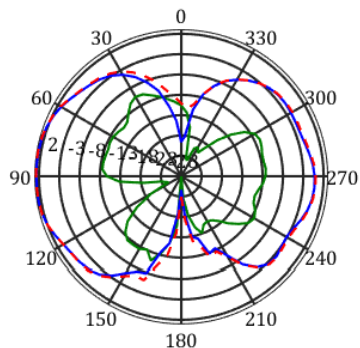
Phi=0

frequency=5150MHz, X-Z Plane



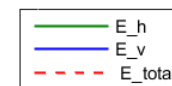
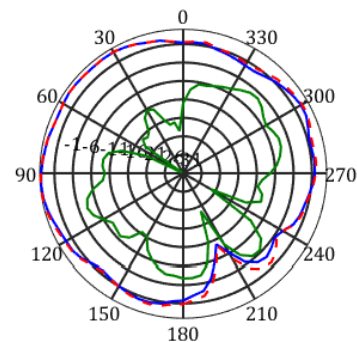
Phi=90

frequency=5150MHz, Y-Z Plane

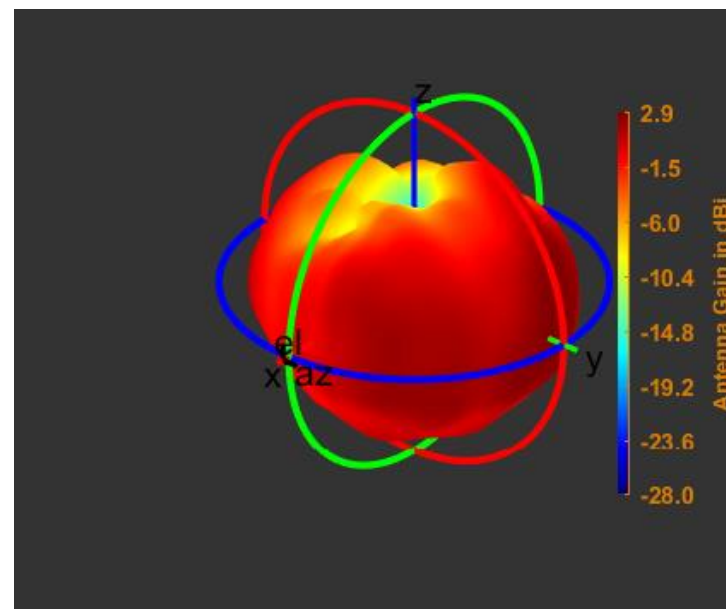


Theta=90

frequency=5150MHz, X-Y Plane

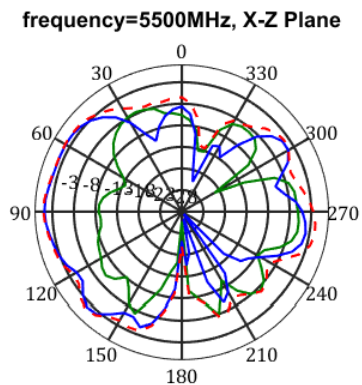


5150MHz

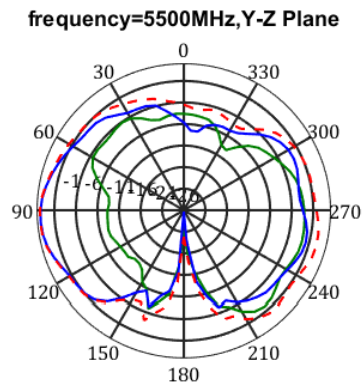


WIFI-1 Antenna test 2D3D diagram

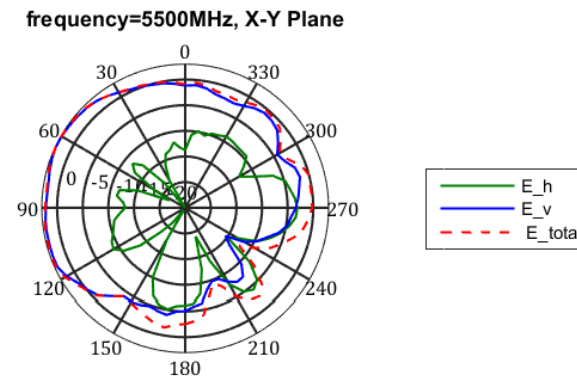
Phi=0



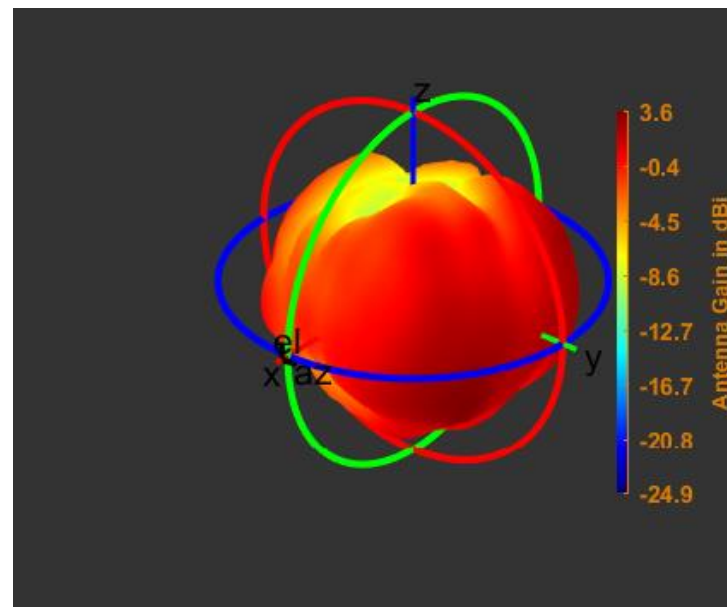
Phi=90



Theta=90



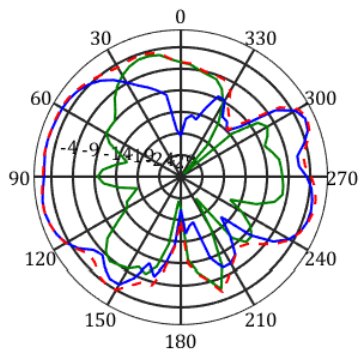
5500MHz



WIFI-1 Antenna test 2D3D diagram

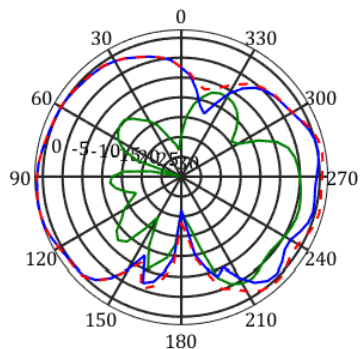
Phi=0

frequency=5850MHz, X-Z Plane



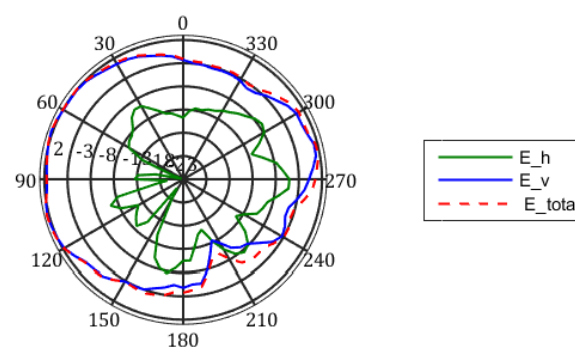
Phi=90

frequency=5850MHz, Y-Z Plane

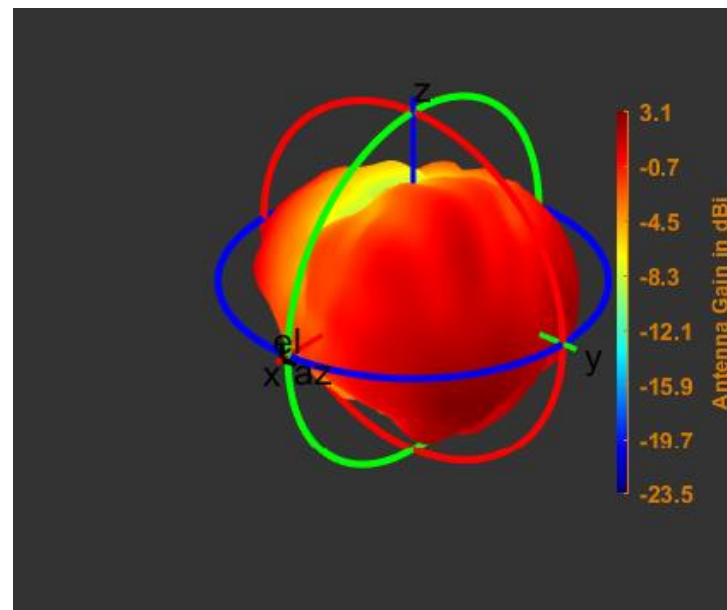


Theta=90

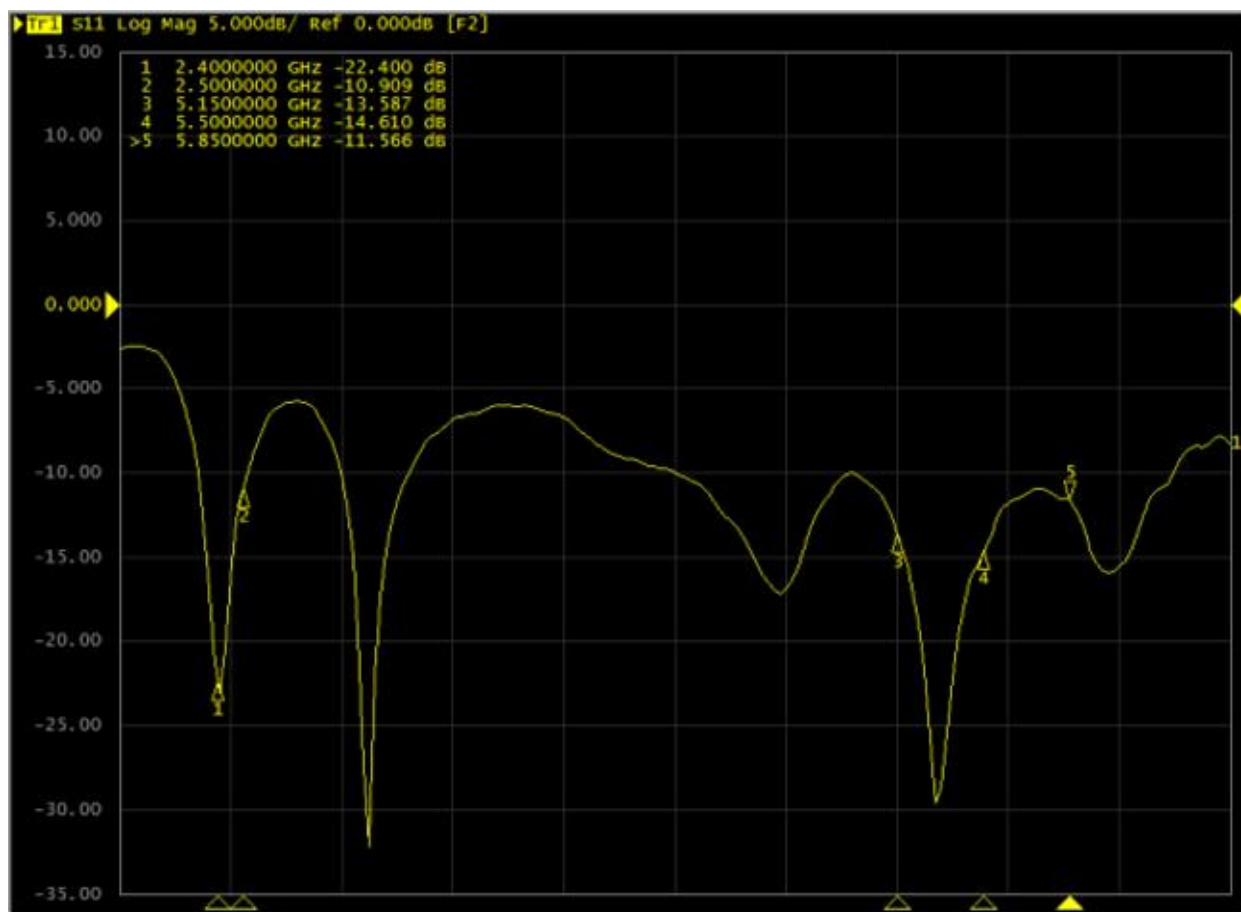
frequency=5850MHz, X-Y Plane



5850MHz



WIFI-2 Antenna network analyzer test diagram



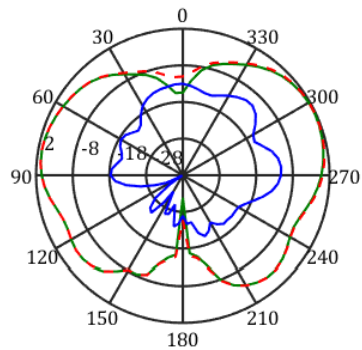
WIFI-2 Antenna passive test data

Frequency/Mhz	Efficiency / %	MaxGain/dBi
2400	74.32	2.1
2450	71.12	2.5
2500	69.87	1.8
5150	62.61	2.9
5500	65.14	2.8
5850	64.52	2.8

WIFI-2 Antenna test 2D3D diagram

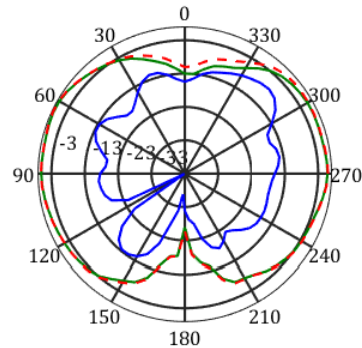
Phi=0

frequency=2400MHz, X-Z Plane



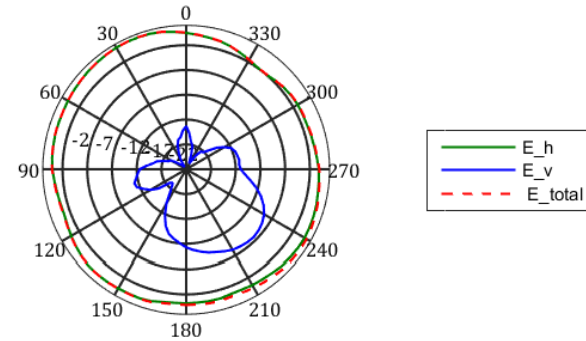
Phi=90

frequency=2400MHz, Y-Z Plane

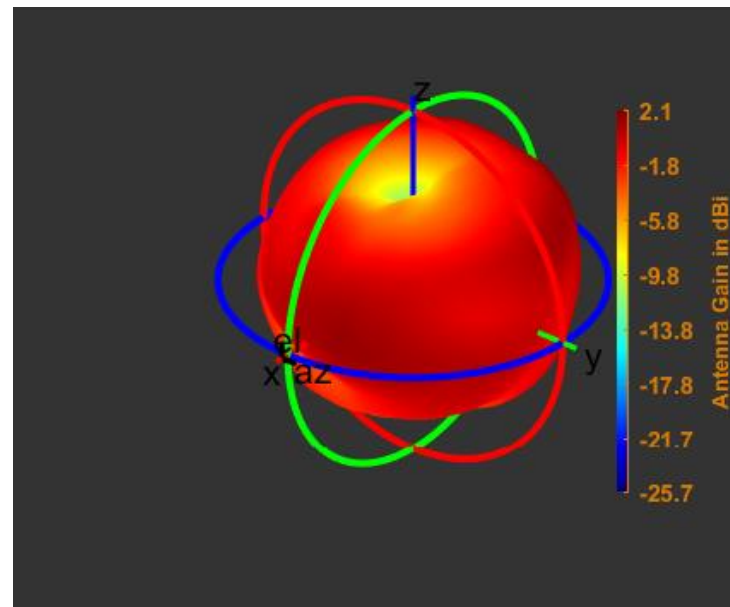


Theta=90

frequency=2400MHz, X-Y Plane



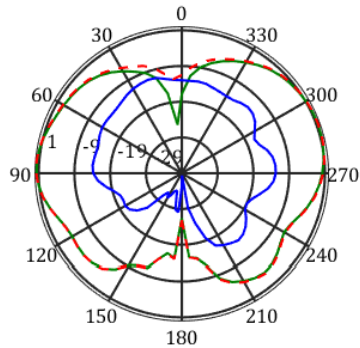
2400MHz



WIFI-2 Antenna test 2D3D diagram

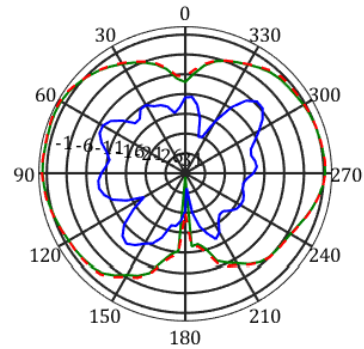
Phi=0

frequency=2450MHz, X-Z Plane



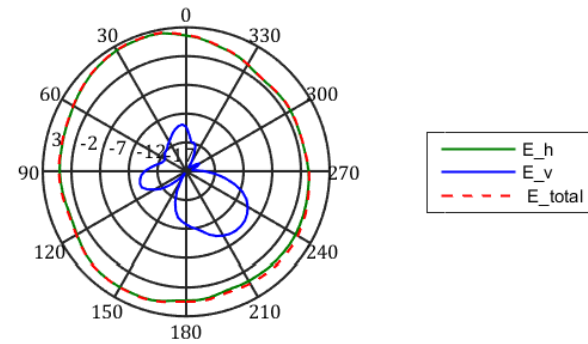
Phi=90

frequency=2450MHz, Y-Z Plane

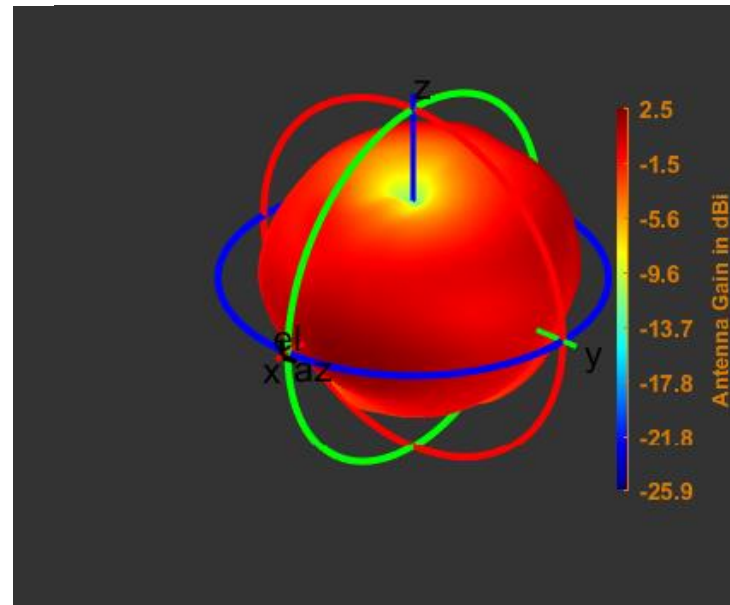


Theta=90

frequency=2450MHz, X-Y Plane

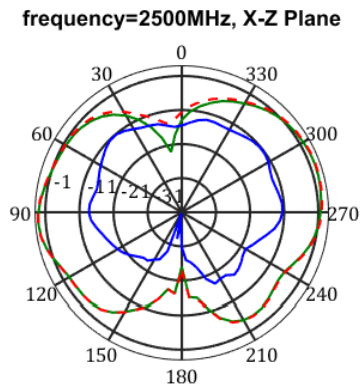


2450MHz

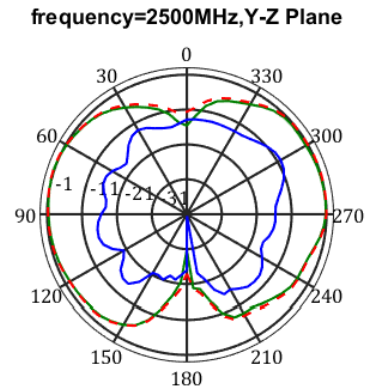


WIFI-2 Antenna test 2D3D diagram

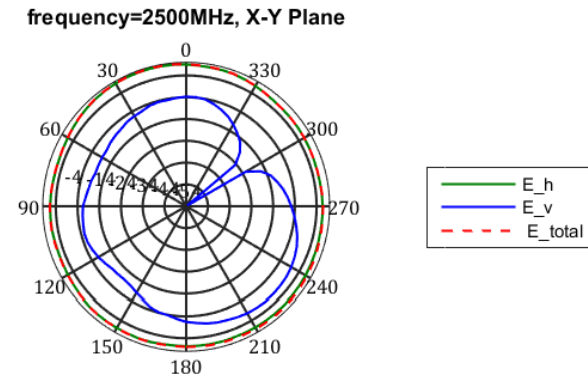
Phi=0



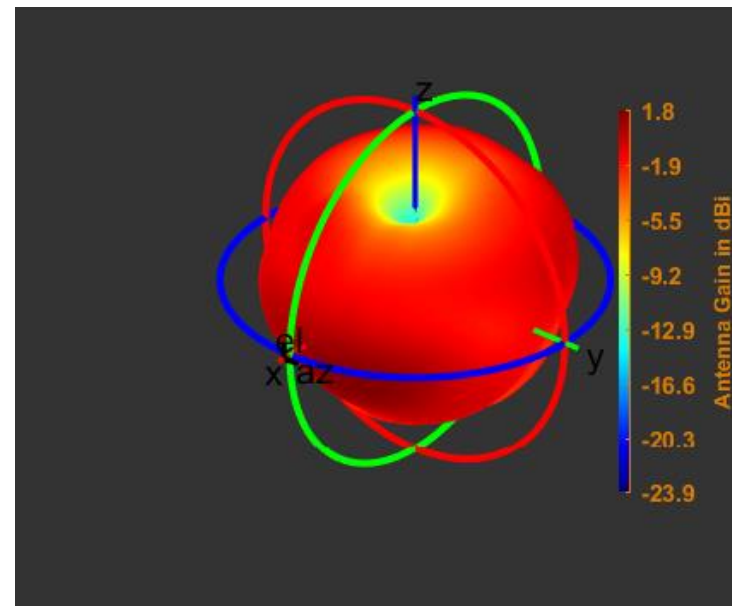
Phi=90



Theta=90

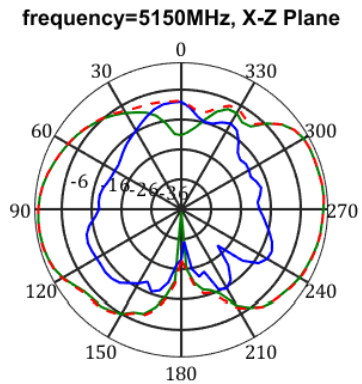


2500MHz

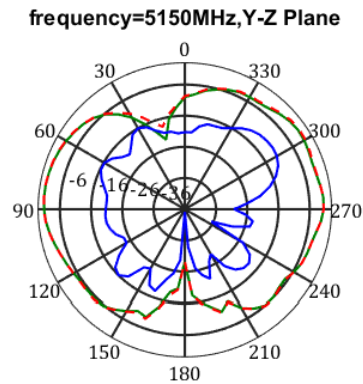


WIFI-2 Antenna test 2D3D diagram

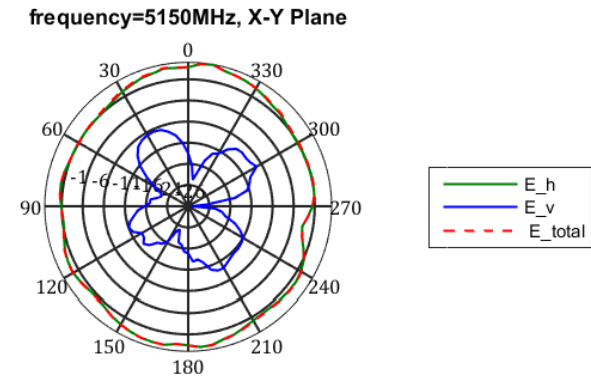
Phi=0



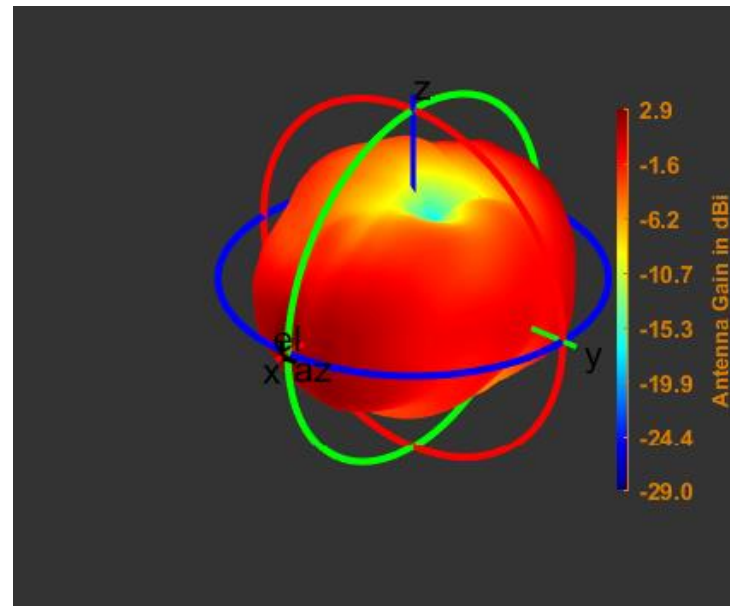
Phi=90



Theta=90



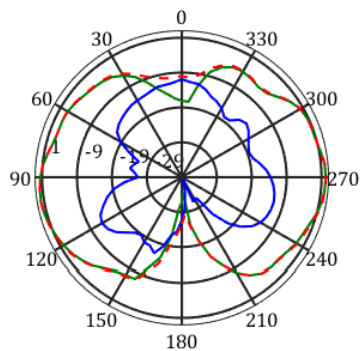
5150MHz



WIFI-2 Antenna test 2D3D diagram

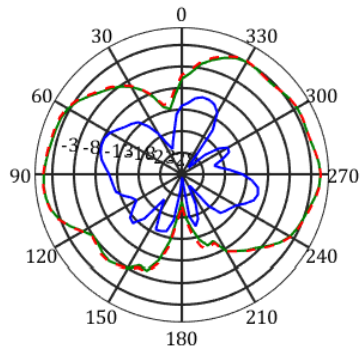
Phi=0

frequency=5500MHz, X-Z Plane



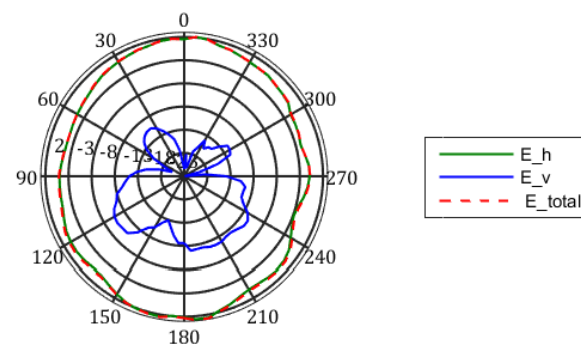
Phi=90

frequency=5500MHz, Y-Z Plane

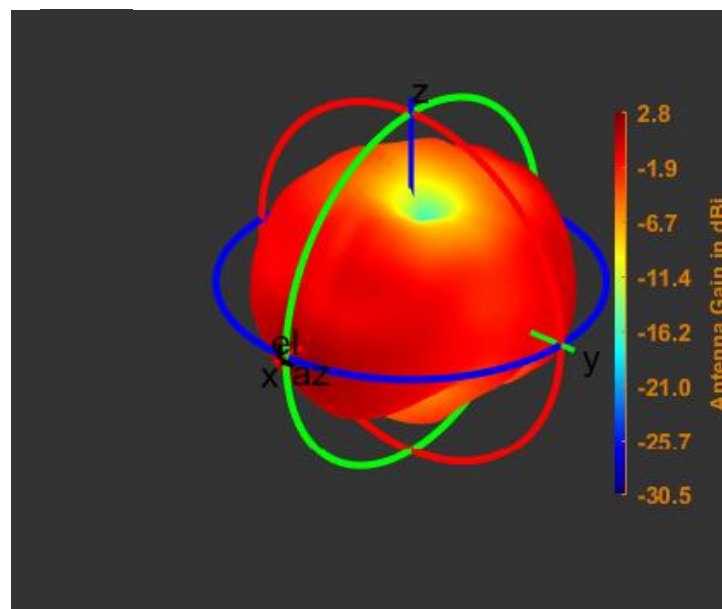


Theta=90

frequency=5500MHz, X-Y Plane



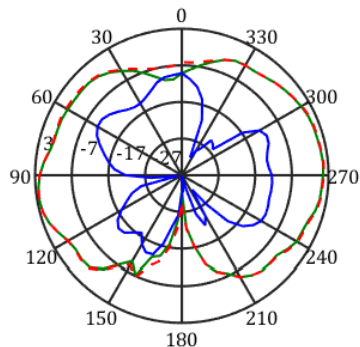
5500MHz



WIFI-2 Antenna test 2D3D diagram

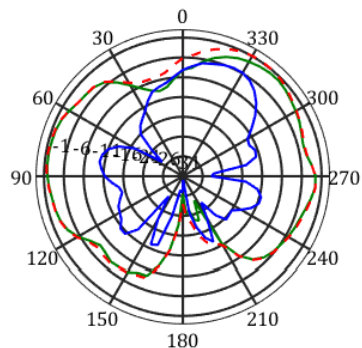
Phi=0

frequency=5850MHz, X-Z Plane



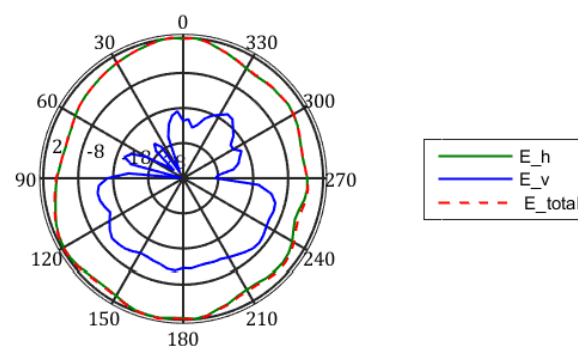
Phi=90

frequency=5850MHz, Y-Z Plane

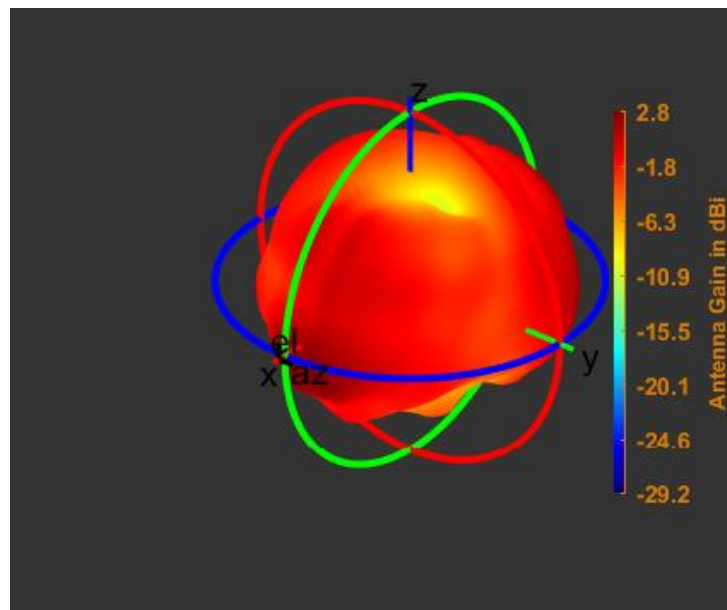


Theta=90

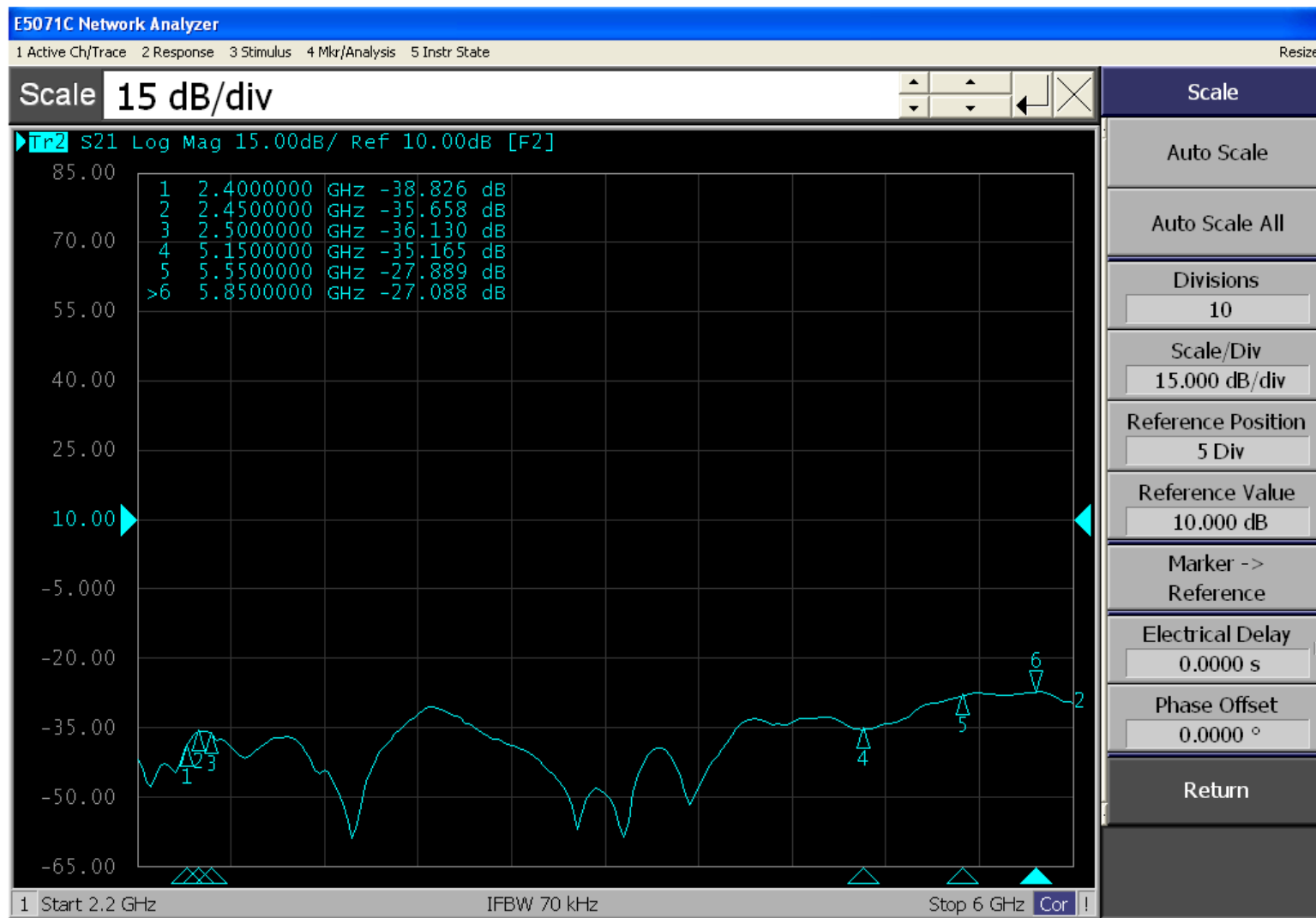
frequency=5850MHz, X-Y Plane



5850MHz



WIFI-1/WIFI-2 Isolation test diagram





Thank you!

Address: Building C, Hongyu Guangming Valley, No. 11, Youma Gang Road, Ma Tian Street, Guangming District, Shenzhen

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Mianyang R&D Center: No. 4F-34 Wanxiang High-tech International, 35 Mianxing East Road, High-tech Zone, Mianyang City, Sichuan Province

telephone: 18926060339 <http://www.szsyjc.com> email: yjc@szsyjc.com