



Antenna Performance Description

Applicant: Xiaomi Communications Co., Ltd

Product description: Mobile Phone

Model Name: 25010PN30G

FCC ID: 2AFZZPN30G

Test date: 2024/10/15



1. Antenna information

Antenna	Model Name	Pattern	Antenna Type	Manufacturer	Test party of Antenna gain
ANT7	O1	Metal Frame	PIFA Antenna	Huizhou BYD Electronic Co., Ltd.	Xiaomi Campus, No.33 Xi erqi Middle Road, Haidian District, Beijing
ANT15	O1	Metal Frame	PIFA Antenna	Huizhou BYD Electronic Co., Ltd.	Xiaomi Campus, No.33 Xi erqi Middle Road, Haidian District, Beijing
ANT16	O1	Metal Frame	PIFA Antenna	Huizhou BYD Electronic Co., Ltd.	Xiaomi Campus, No.33 Xi erqi Middle Road, Haidian District, Beijing
ANT17	O1	Metal Frame	PIFA Antenna	Huizhou BYD Electronic Co., Ltd.	Xiaomi Campus, No.33 Xi erqi Middle Road, Haidian District, Beijing
NFC1	O1	single form	FPC Antenna	Shenzhen Haidemen Electronic	/



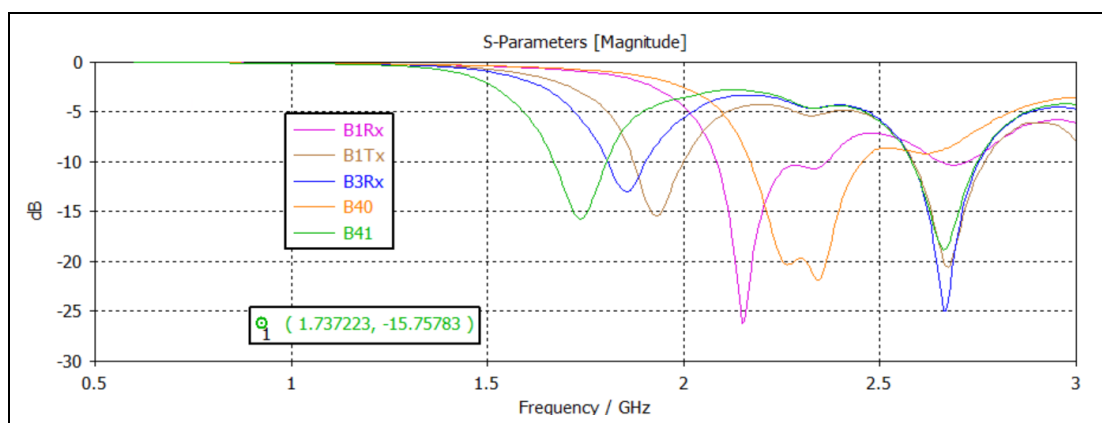
NFC2	O1	loop antenna	FPC Antenna	Shenzhen Haidemen Electronic	/
WPT	O1	Planar Coil	Wire Coil	Shanghai Demen Electronics Technology Co./Lixun Precision Industry Co	/



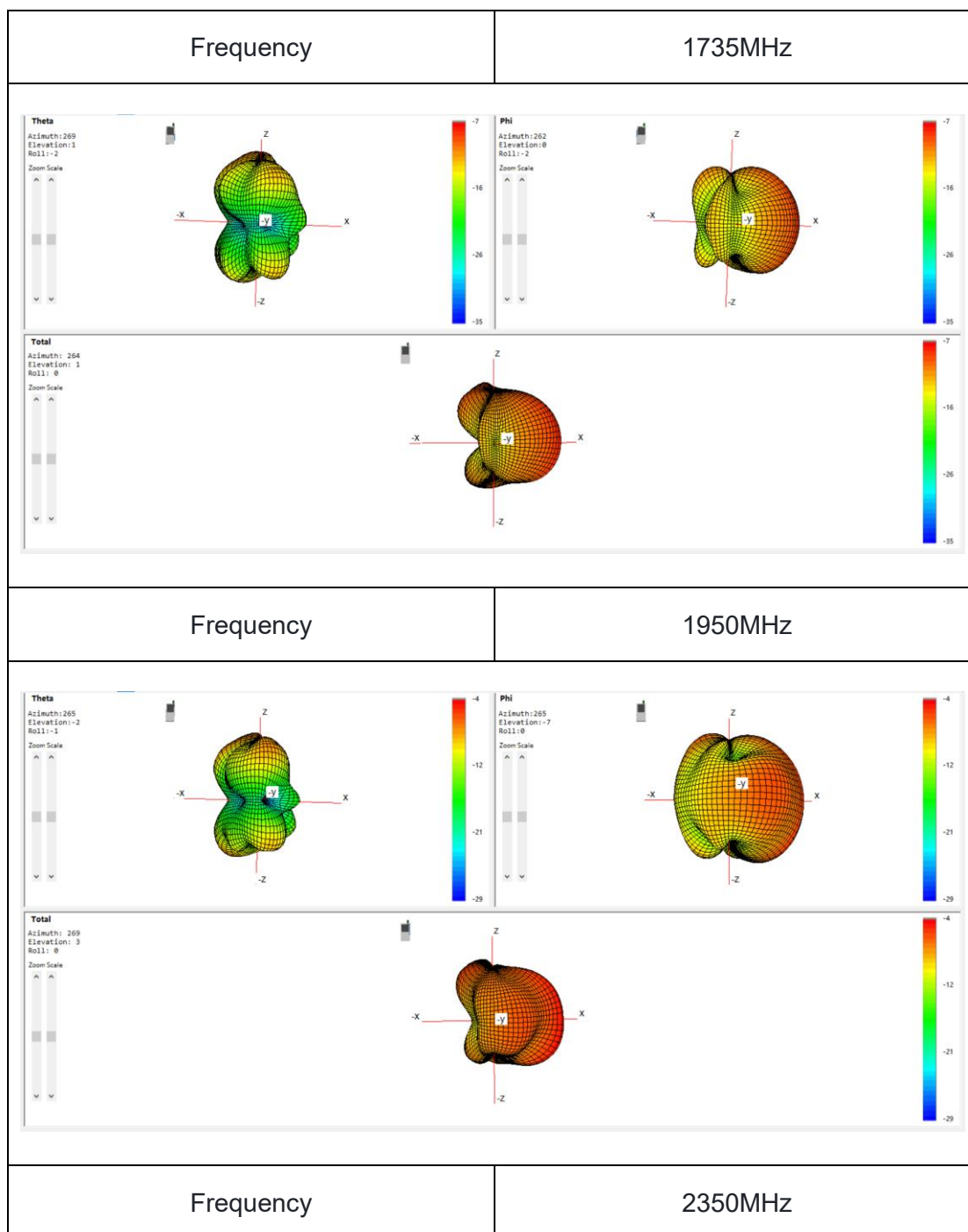
2. Test data

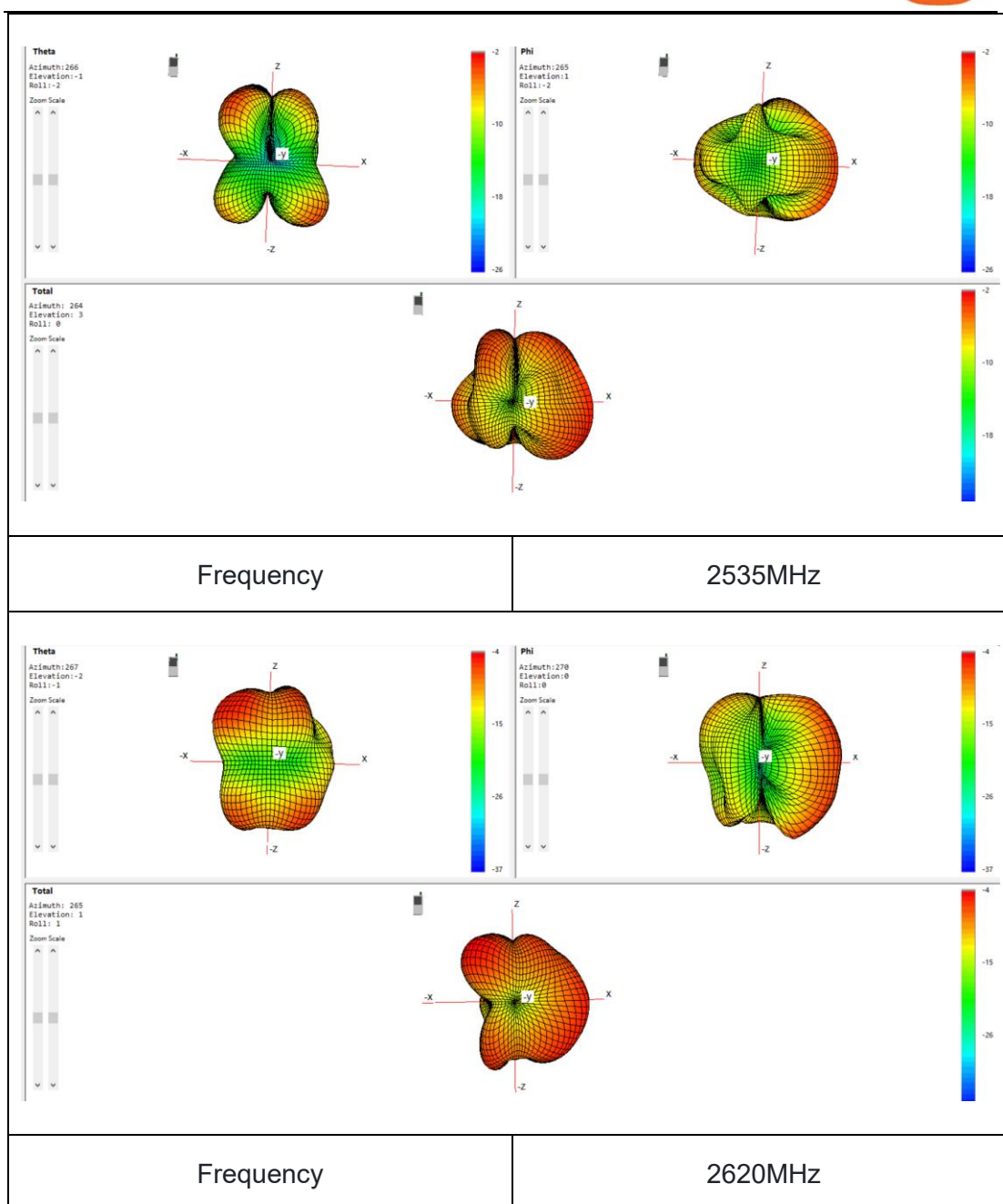
Band for Antenna 7	MHB+WIFI2.4G ANT	
	Avg.Effi.(dB)	Peak gain(dBi)
2.4G(2400~2485MHz)	-7.3	-2.3
Bluetooth	-7.3	-2.3

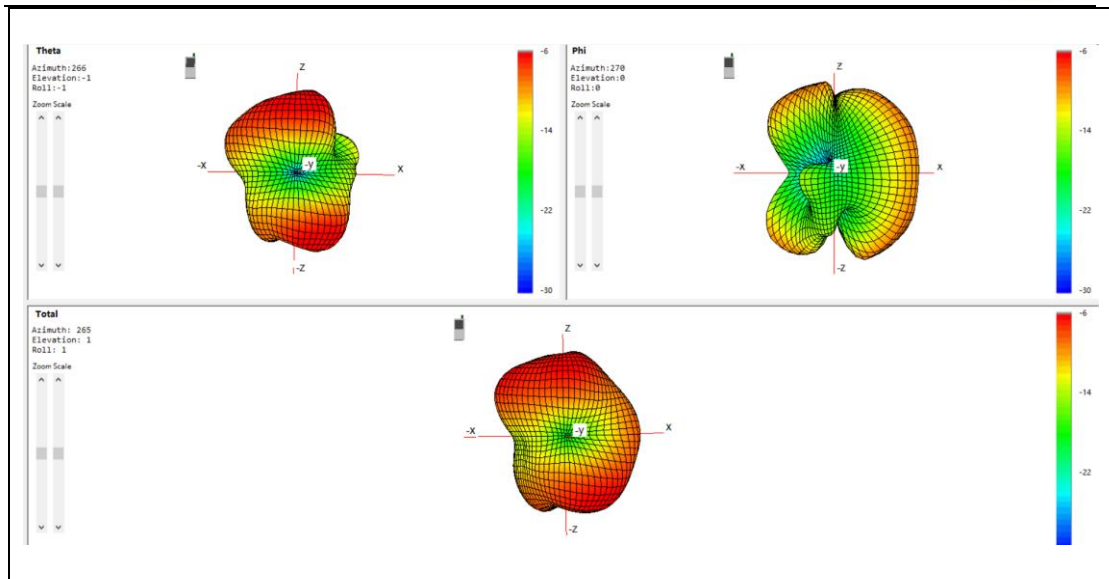
S 参数



方向图



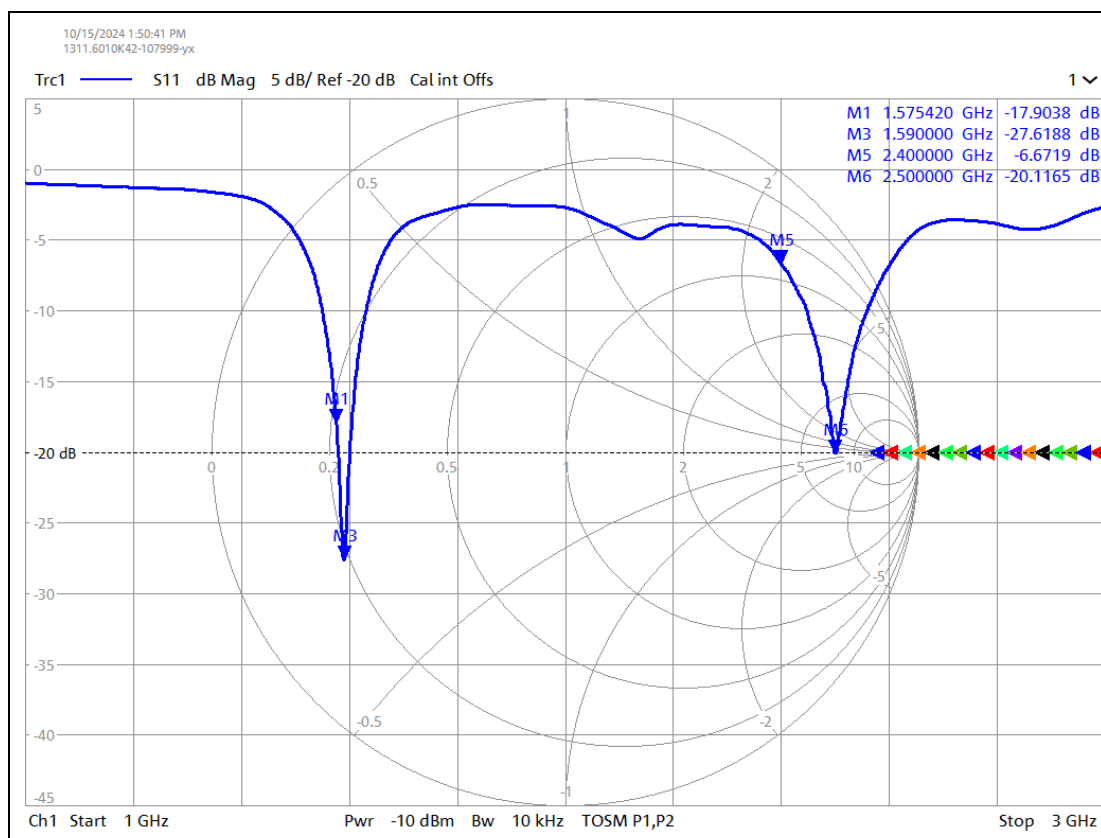






Bands for Antenna 15	WIFI2.4G+BT ANT	
	Avg.Effi.(dB)	Peak gain(dBi)
2.4G(2400~2485MHz)	-6.2	-1.2
Bluetooth	-6.2	-1.2

S 参数

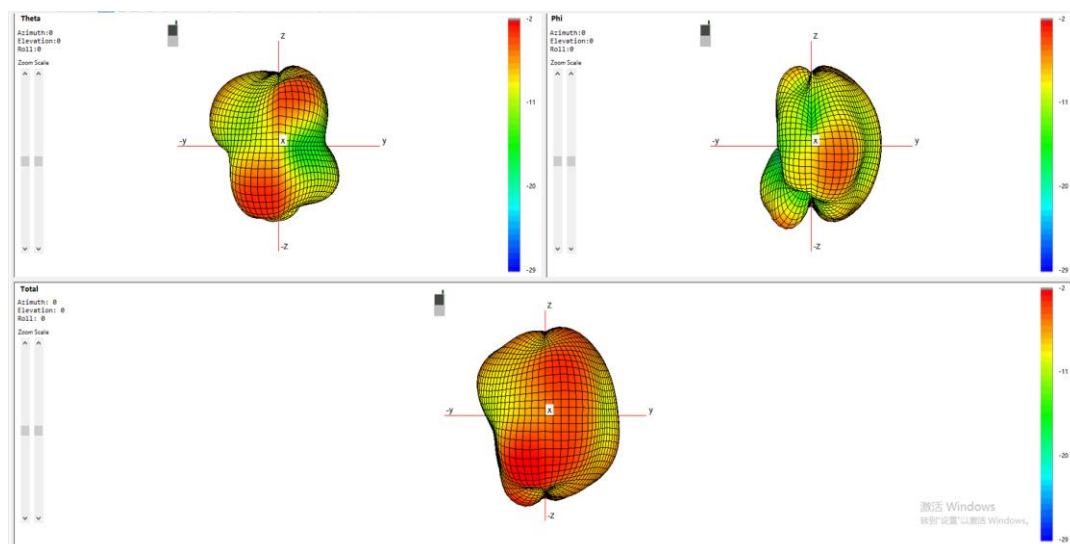




方向图

Frequency

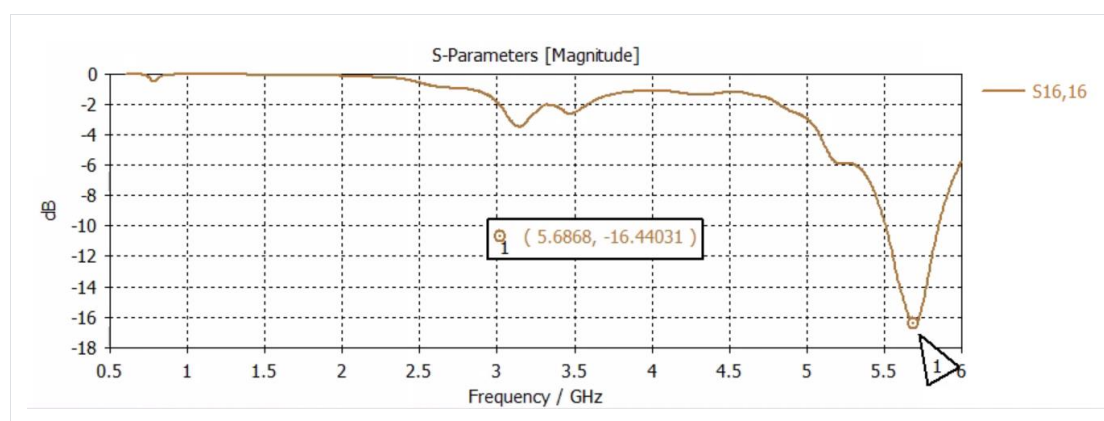
2450MHz





Bands for Antenna 16	WIFI5G/6E ANT	
	Avg.Effi.(dB)	Peak gain(dBi)
5G (5150~5250MHz)	-9.7	-3.8
5G (5250~5350MHz)	-8.3	-2.5
5G (5470~5725MHz)	-7.1	-3.1
5G (5470~5850MHz)	-7.0	-2.3
6G (5925-6425GHz)	-8.0	-2.4
6G (6425-6525GHz)	-8.9	-4.8
6G (6525-6875GHz)	-9.0	-2.9
6G (6875-7125GHz)	-8.6	-2.0

S 参数

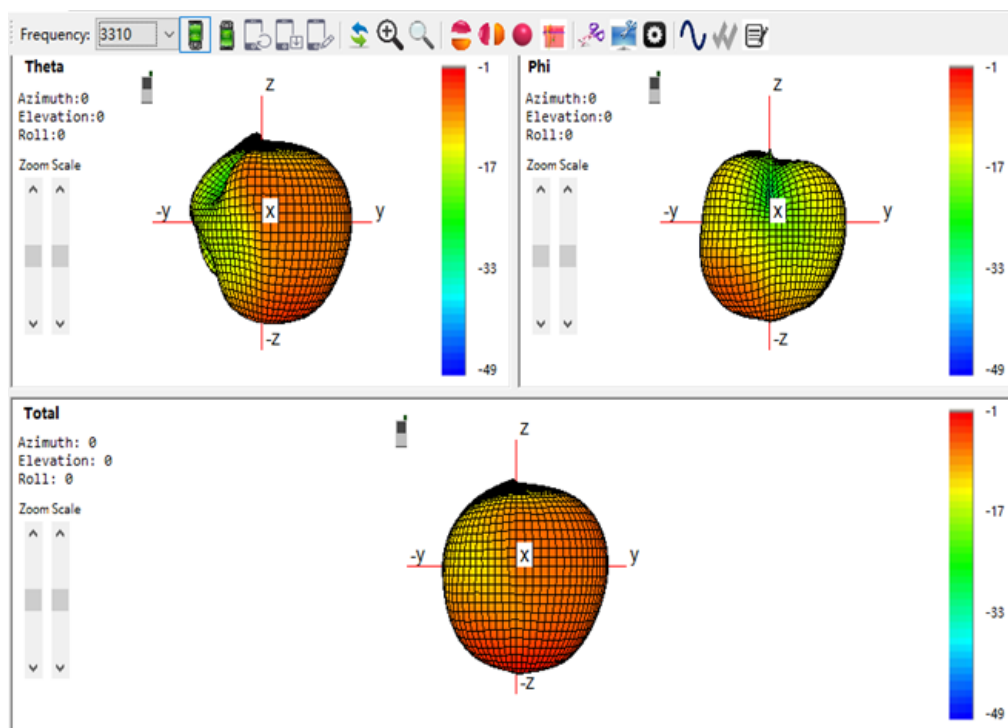




方向图

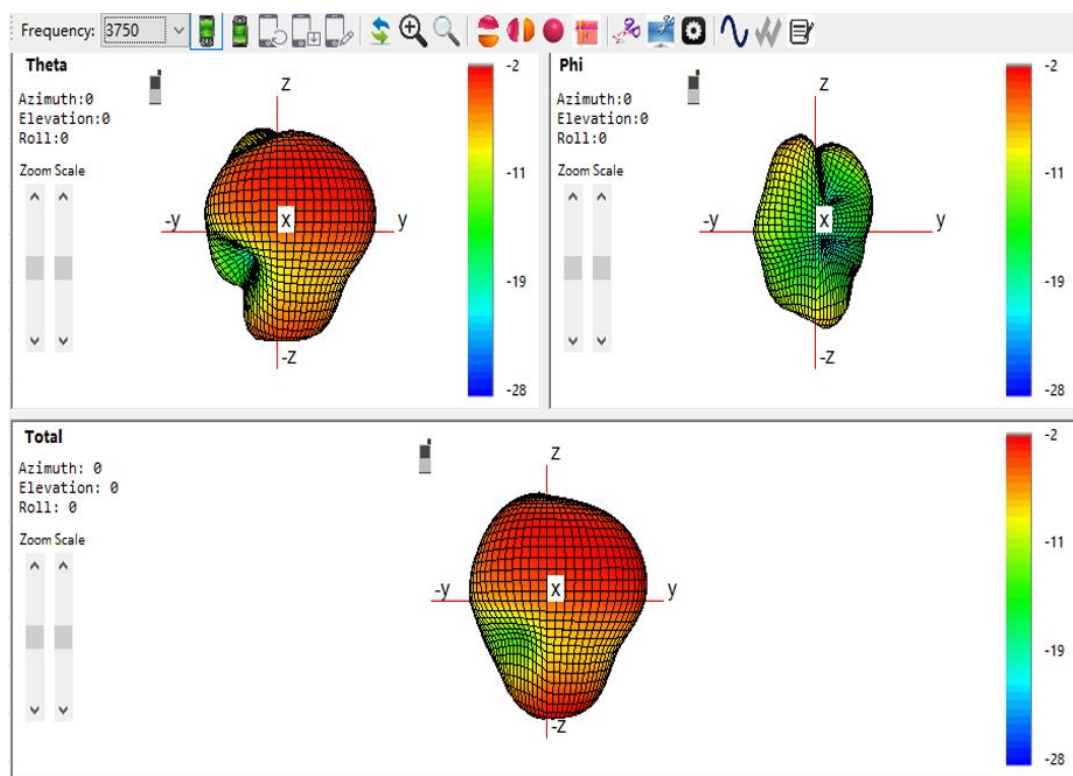
Frequency

5180MHz



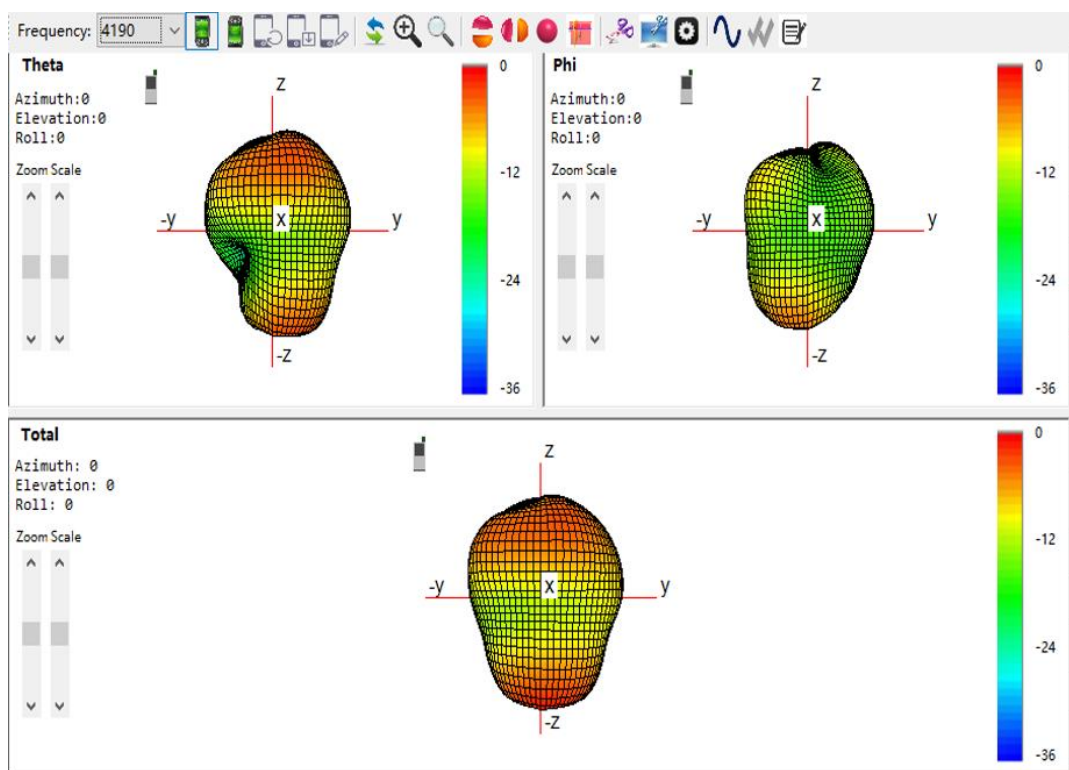
Frequency

5280MHz



Frequency

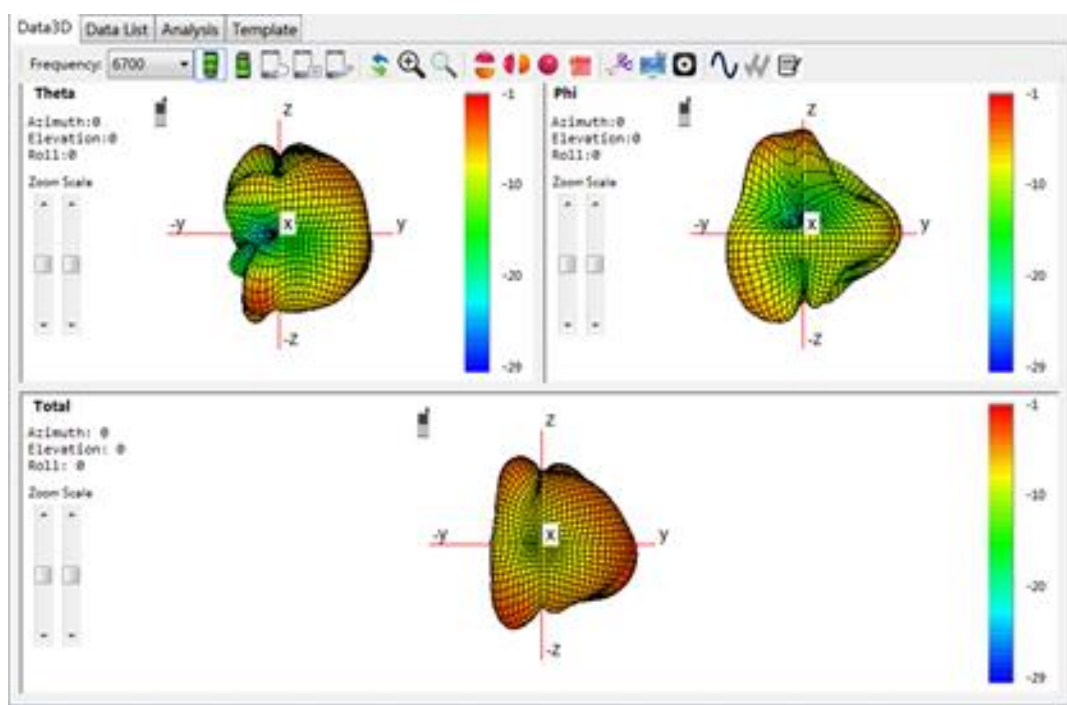
5500MHz





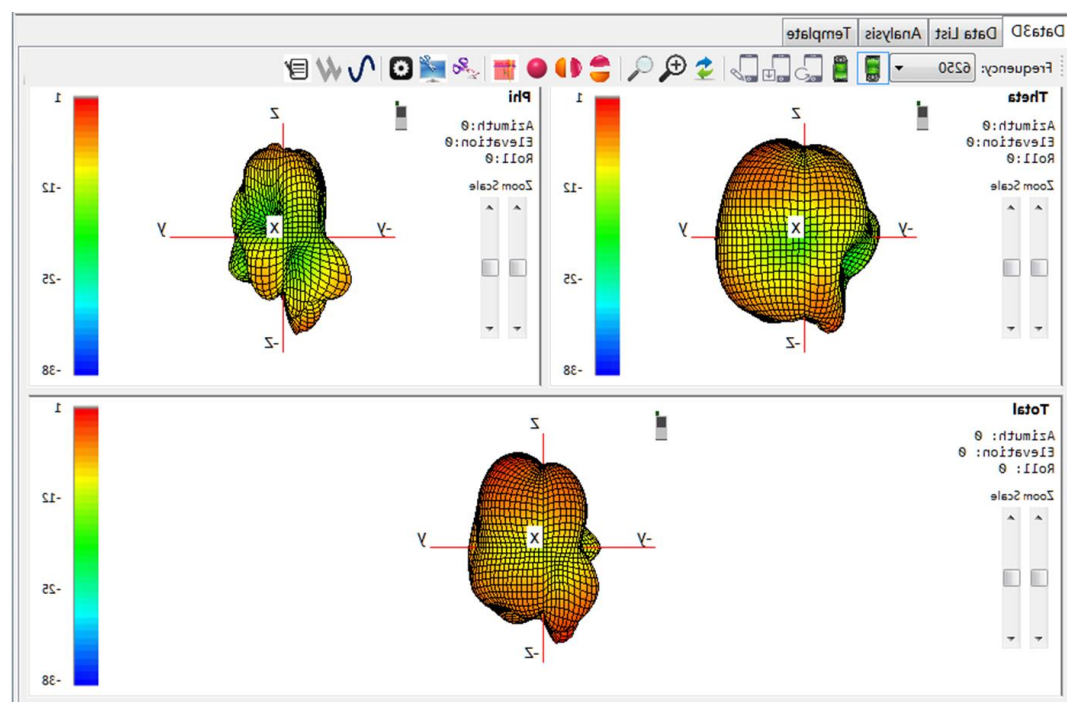
Frequency

5785MHz



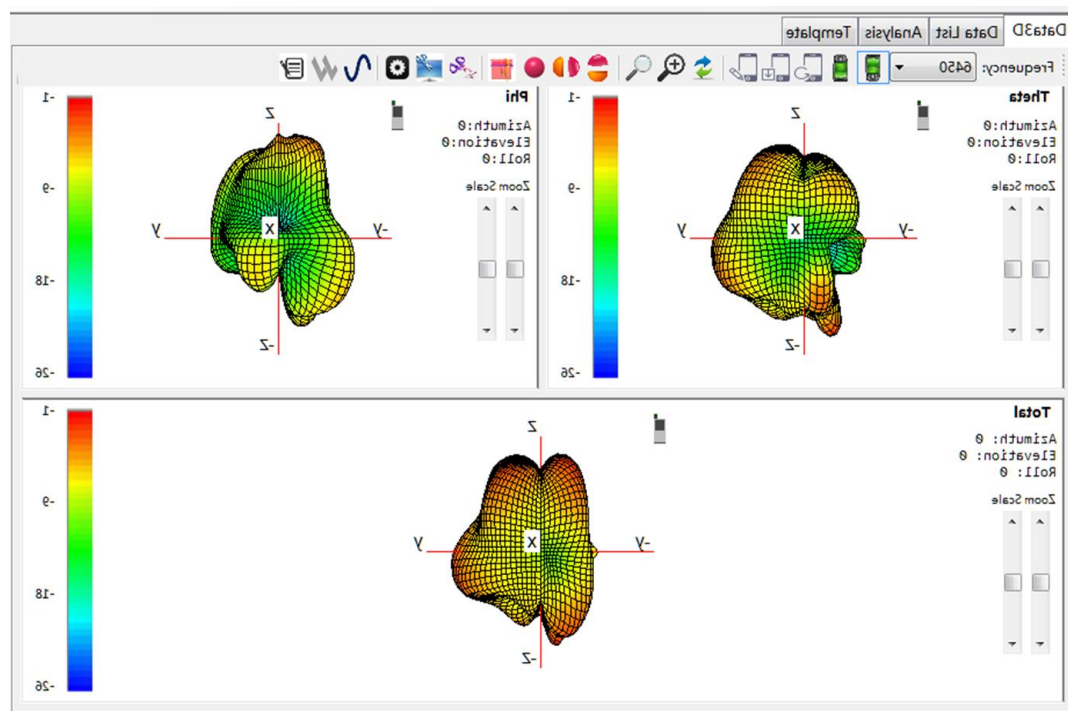
Frequency

6250MHz



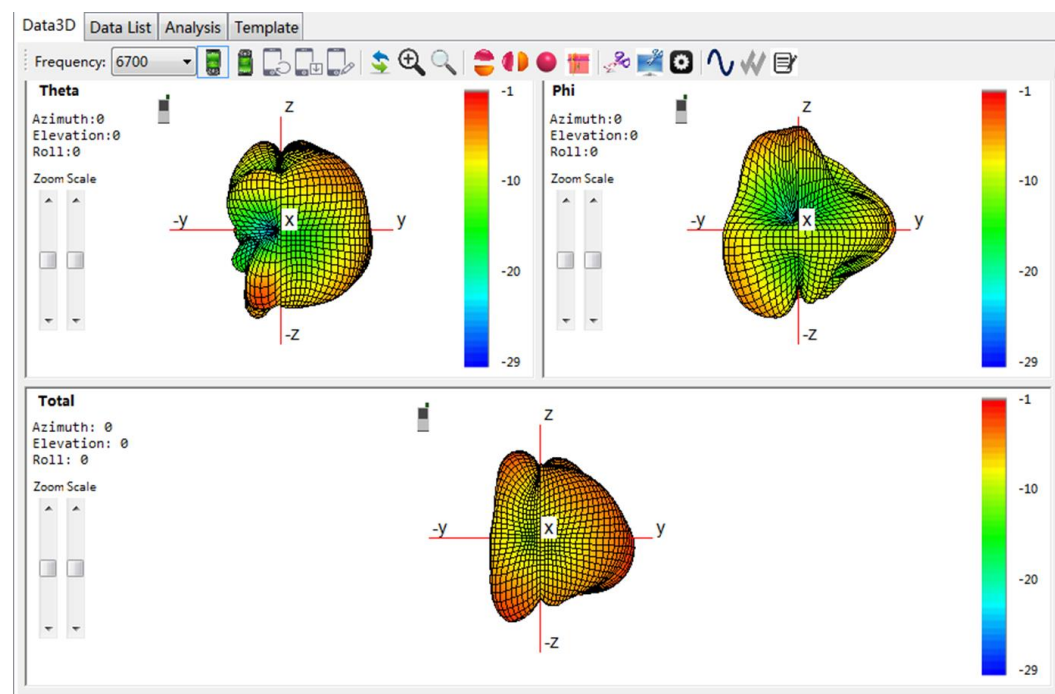
Frequency

6450MHz



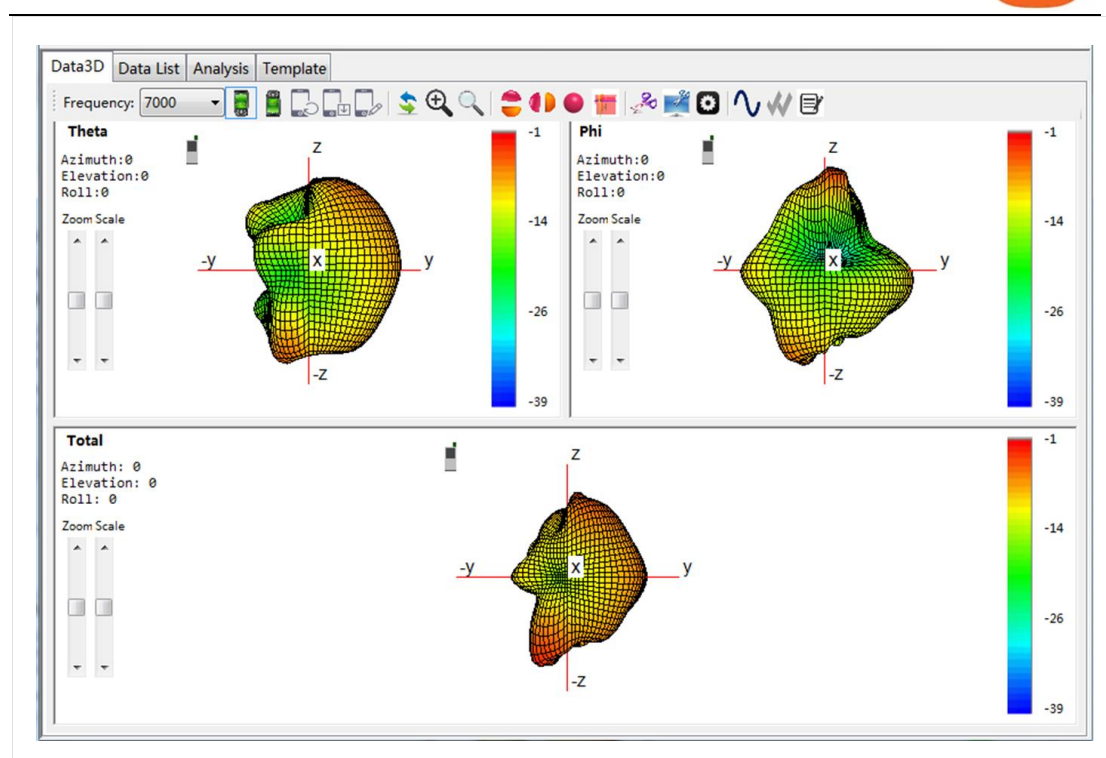
Frequency

6700MHz



Frequency

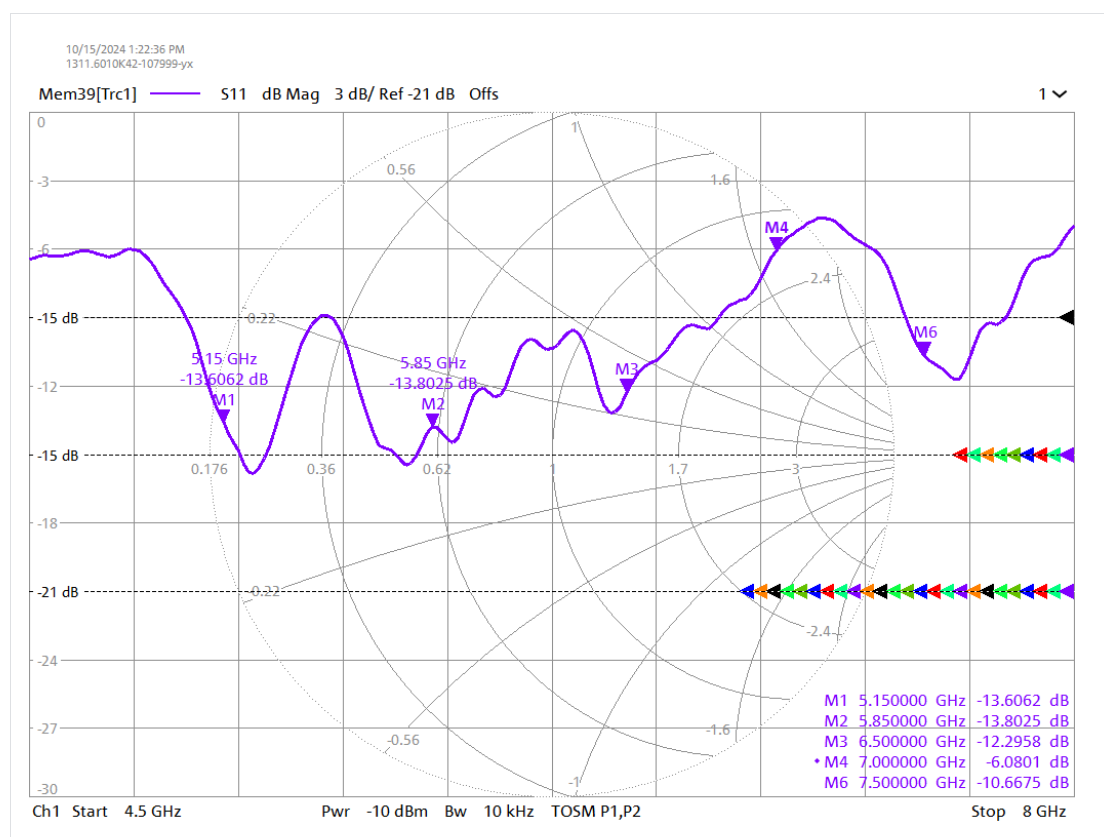
7000MHz



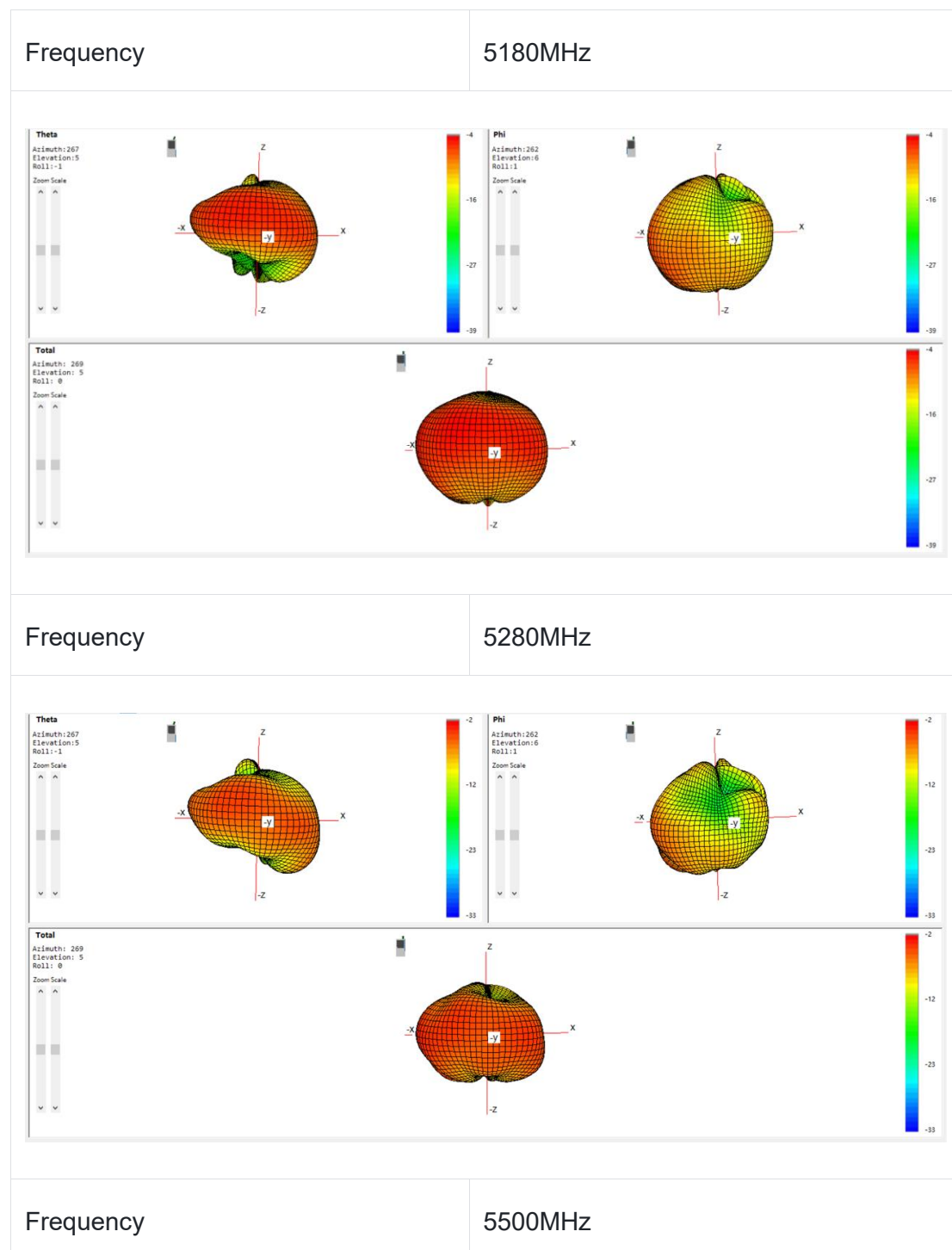


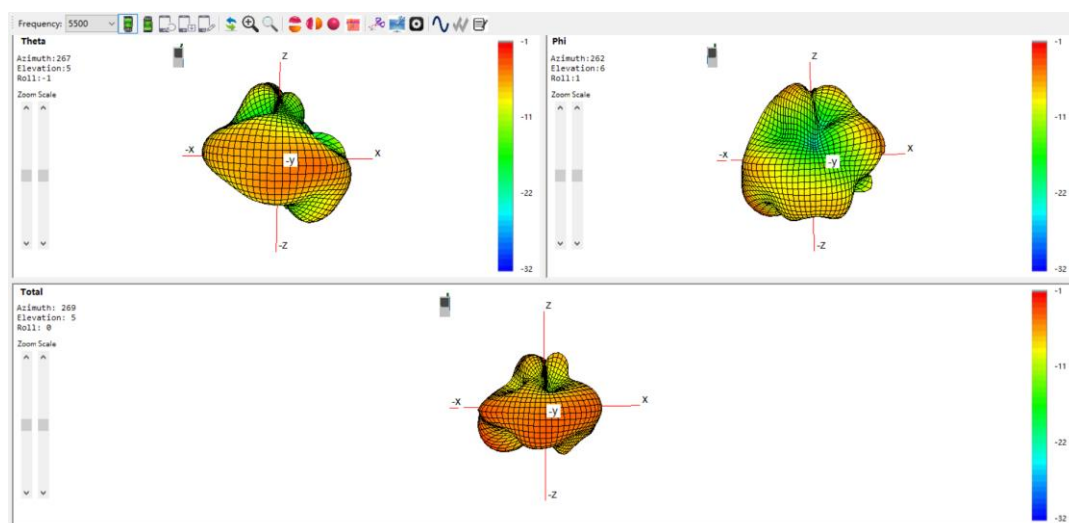
Bands for Antenna 17	WIFI5G/6E ANT	
	Avg.Effi.(dB)	Peak gain(dBi)
5G (5150~5250MHz)	-6.3	-3.7
5G (5250~5350MHz)	-6.2	-2.7
5G (5470~5725MHz)	-6.2	-3.2
5G (5470~5850MHz)	-6.3	-2.9
6G (5925-6425GHz)	-7.1	-2.8
6G (6425-6525GHz)	-7.0	-1.8
6G (6525-6875GHz)	-8.9	-1.2
6G (6875-7125GHz)	-10.0	-4.2

S 参数



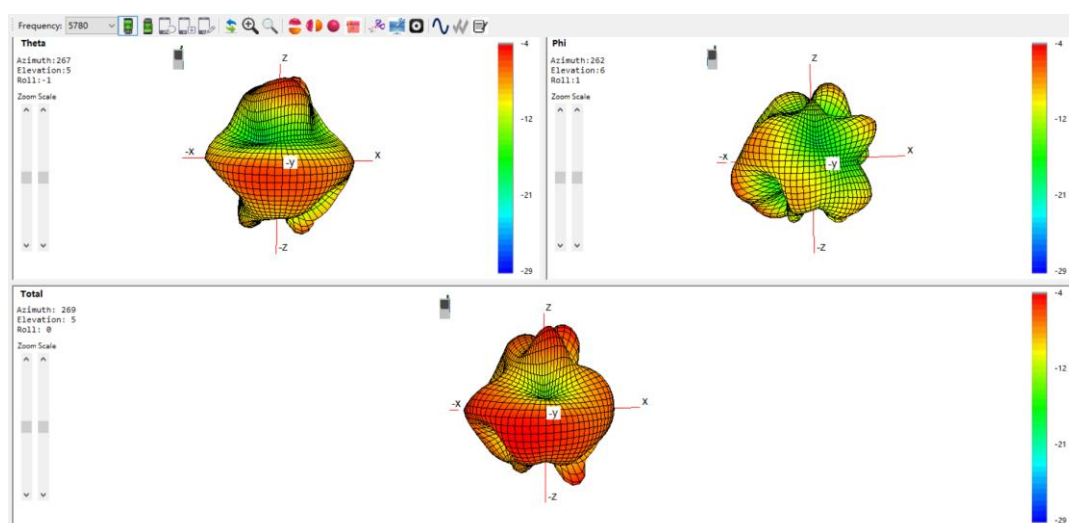
方向图





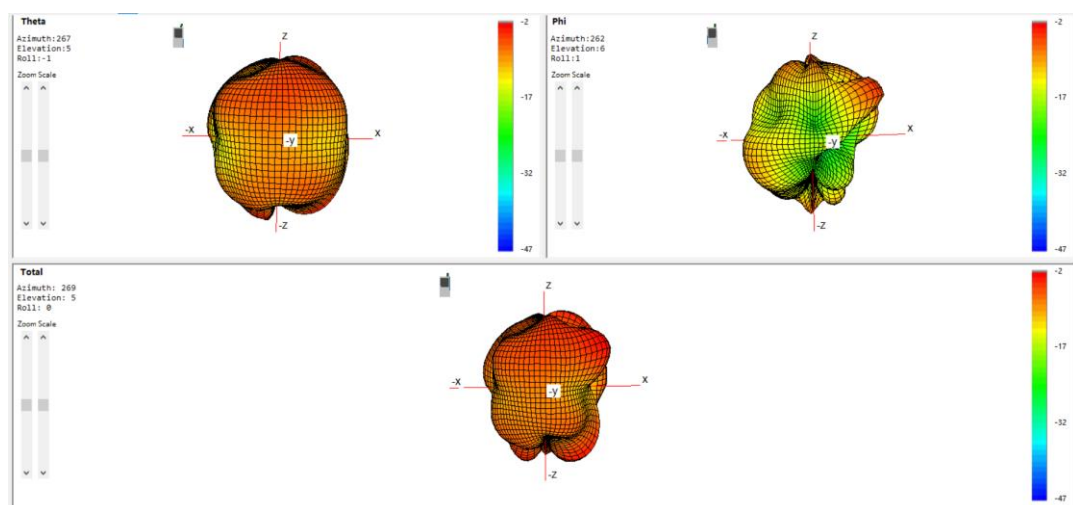
Frequency

5785MHz



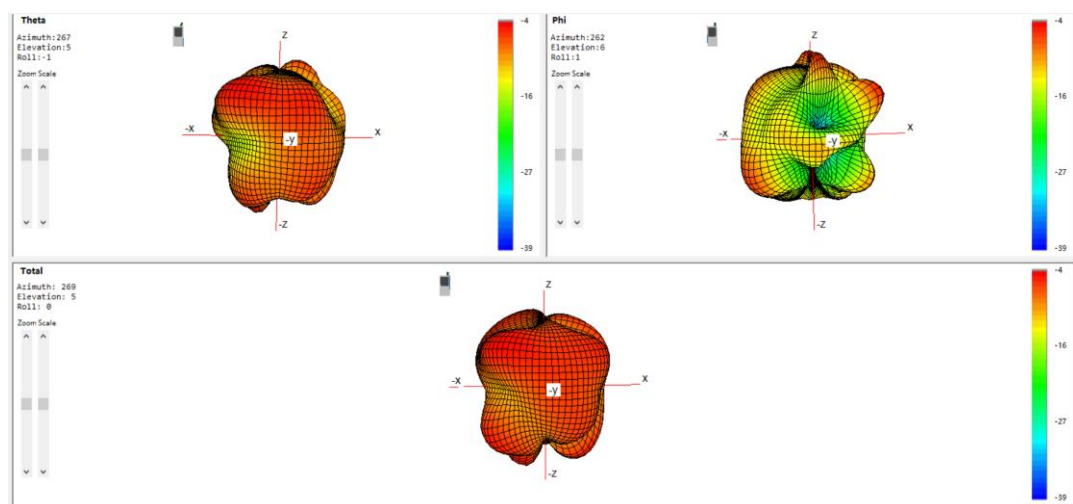
Frequency

6250MHz



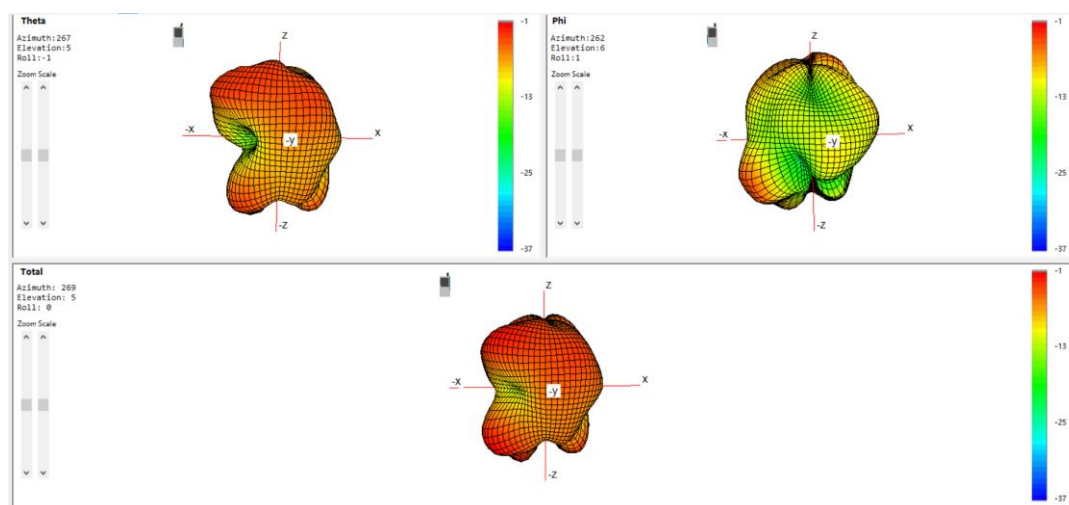
Frequency

6450MHz



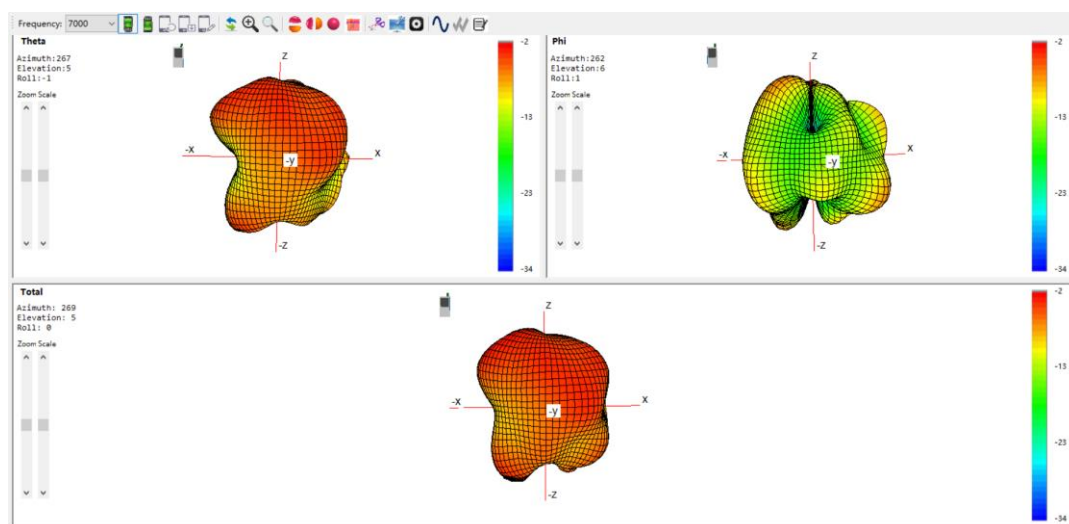
Frequency

6700MHz



Frequency

7000MHz





3. Main Test Instruments

Name	Manufacturer	Model name	Serial Number	Cal., Date	Exp., Date
OTA TEST SYSTEM	GENERAL TEST	RayZone 2800	CT1012048 0B5054	2024/4/6	2025/4/6
E5071C	KEYSIGHT	E5071C	EQ80224	2024-4-6	2025-4-6

4. The name of the test software

GTS MaxSign- RayZone2800D_Z



Cheng Yibo , antenna engineer

End of Test Report