



## Antenna Performance Description

Applicant: Xiaomi Communications Co., Ltd

Product description: Mobile Phone

Model Name: 2406APNFAG

FCC ID: 2AFZZPNFAG

Test date: 2024/04/15



## 1. Antenna information

Antenna	Pattern	Antenna Type	Manufacturer	Manufacturer Address	Test party of Antenna gain
ANT6	Metal Frame	PIFA	XIAOMI	Floor 9th, Tower 1, Novel Park, No.4078 Dongbin Road, Nanshan District, Shenzhen.	Shenzhen Xiaomi Communications Co., Ltd.
ANT16	Metal Frame	PIFA	XIAOMI	Floor 9th, Tower 1, Novel Park, No.4078 Dongbin Road, Nanshan District, Shenzhen.	Shenzhen Xiaomi Communications Co., Ltd.
ANT7	Metal Frame	PIFA	XIAOMI	Floor 9th, Tower 1, Novel Park, No.4078 Dongbin Road, Nanshan District, Shenzhen.	Shenzhen Xiaomi Communications Co., Ltd.
ANT17	Metal Frame	PIFA	XIAOMI	Floor 9th, Tower 1, Novel Park, No.4078 Dongbin Road, Nanshan District, Shenzhen.	Shenzhen Xiaomi Communications Co., Ltd.
NFC		FPC	Kunshan Innowave Communication Technology Co., Ltd.	Building 4, Zone A, Hong Xin Tai Industrial Park, No.28 Yinying Road, Gaoying Village, Dongguan City	Shenzhen Xiaomi Communications Co., Ltd.

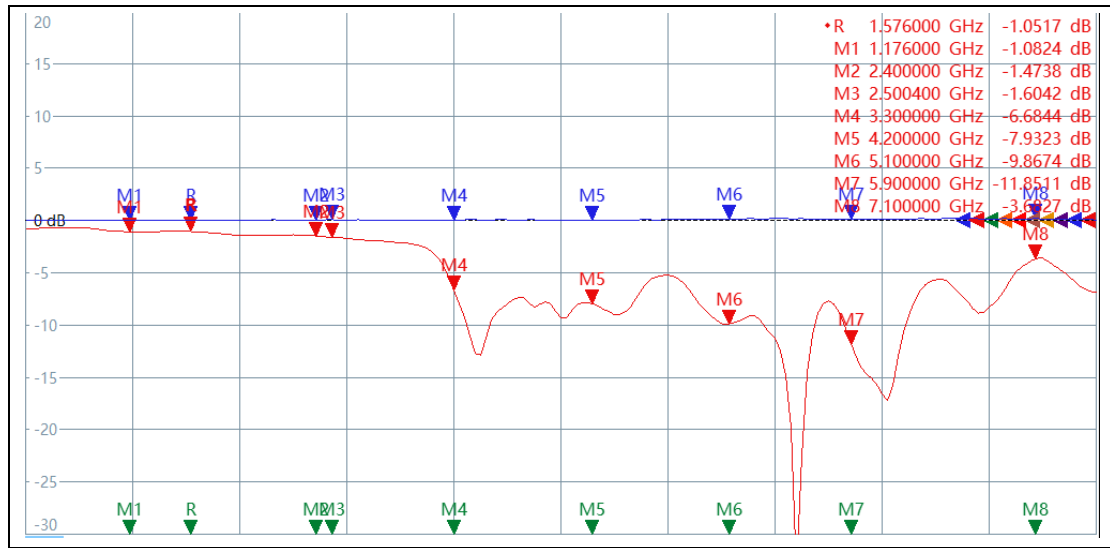


## 2. Test data

Bands for Antenna 6	Avg.Effi.(dB)	Peak gain(dBi)	EIRP	合路传导功率	Peak gain(dBi)
5G (5150~5250MHz)	-5.0dB	-2.3		/	
5G (5250~5350MHz)	-5.3dB	-2.5			
5G (5470~5725MHz)	-4.4dB	-2.2			
5G (5470~5850MHz)	-5.4dB	-2.2			
6G (5925-6425GHz)	-7.4dB	-0.1		/	
6G (6425-6525GHz)	-7.8dB	-2.5			
6G (6525-6875GHz)	-7.8dB	-3.6			
6G (6875-7125GHz)	-9.3dB	-6.6			

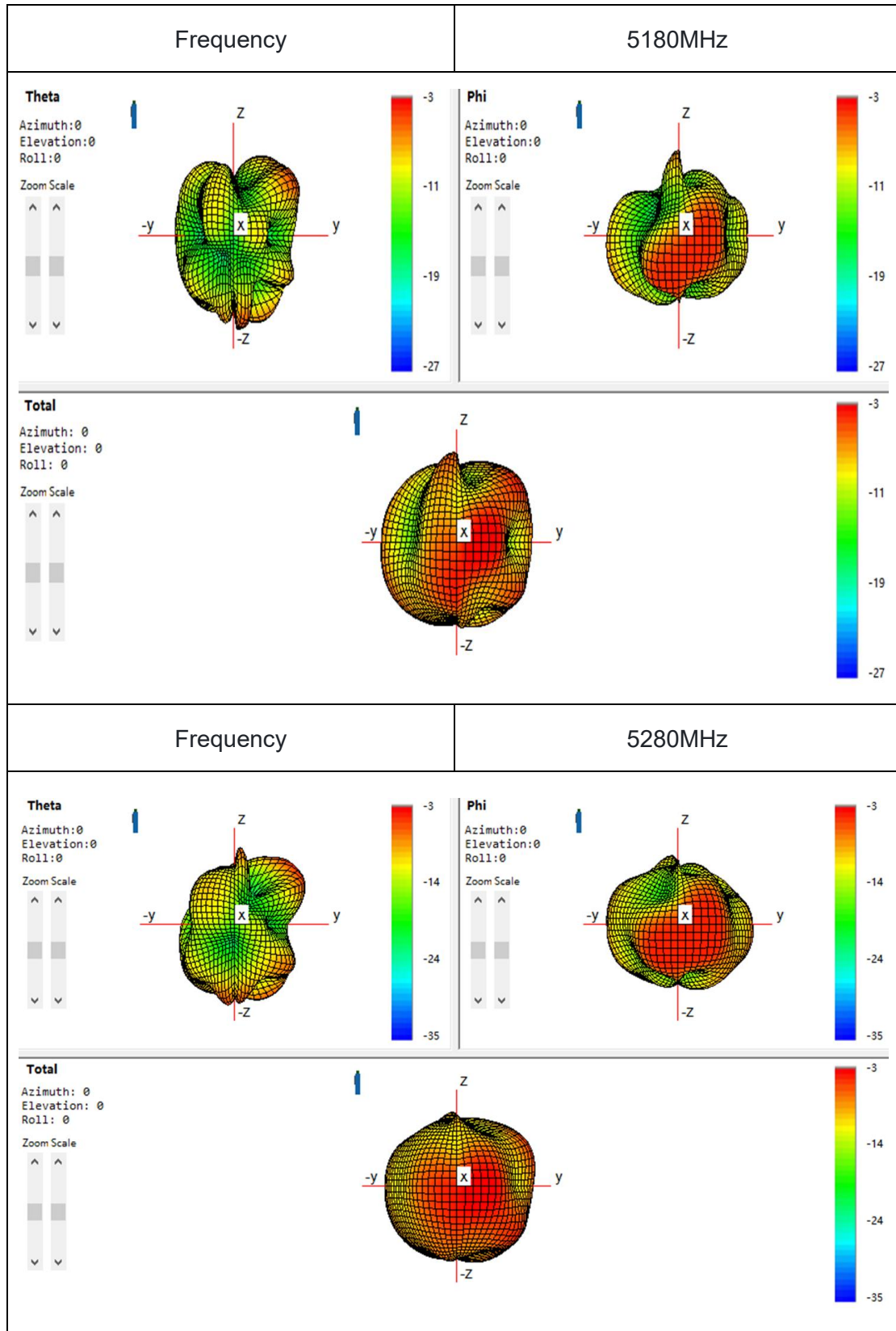


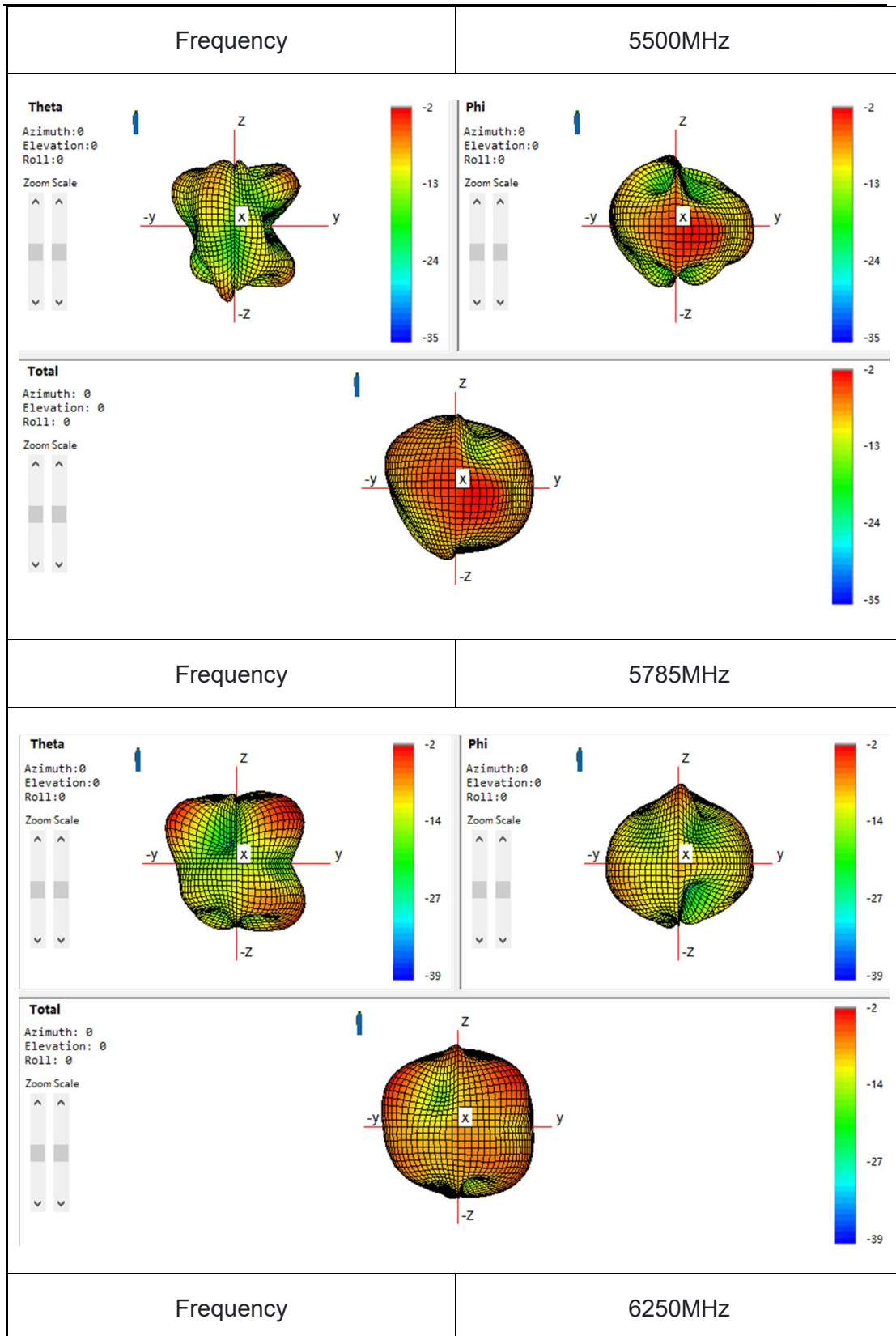
## S 参数

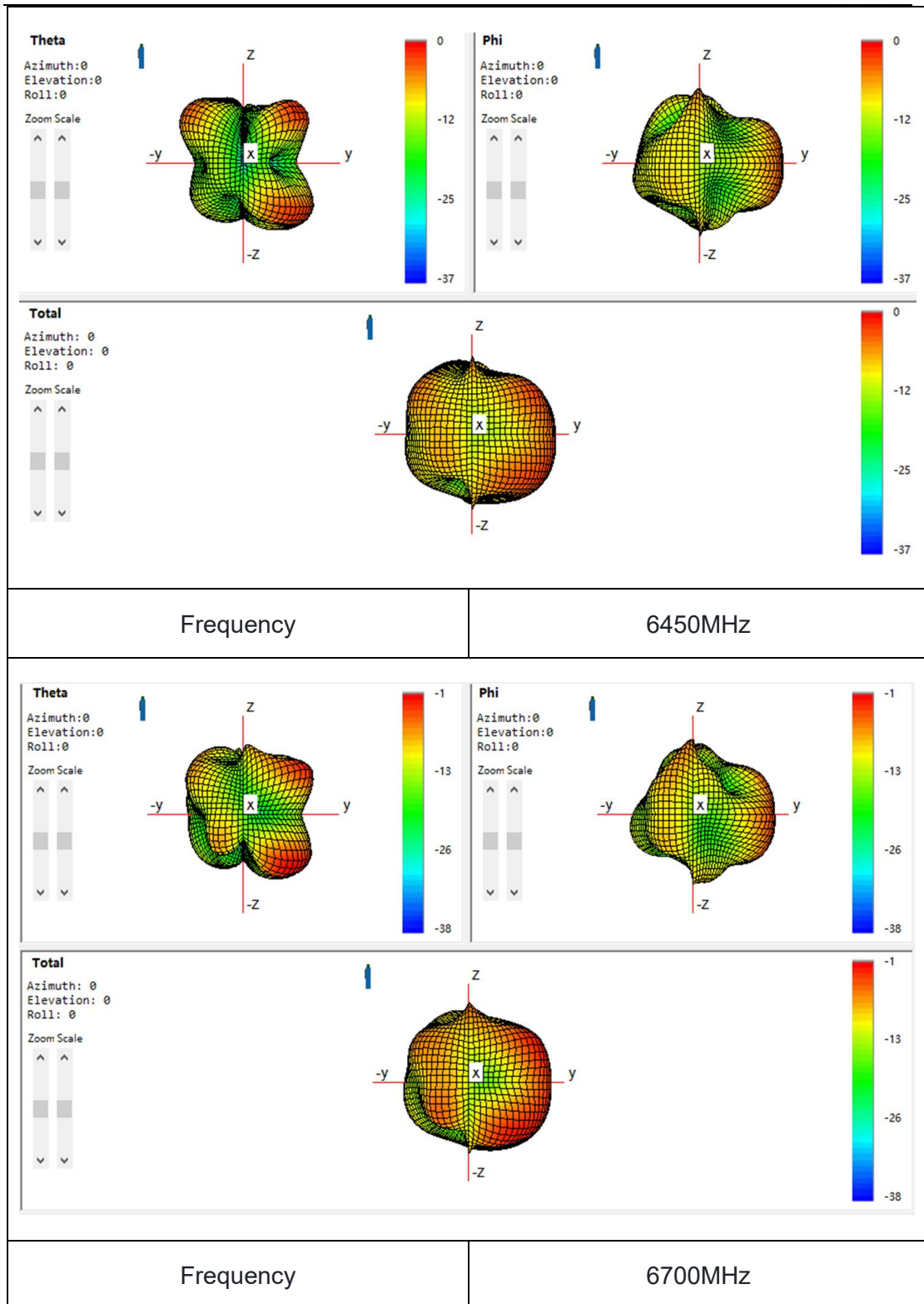


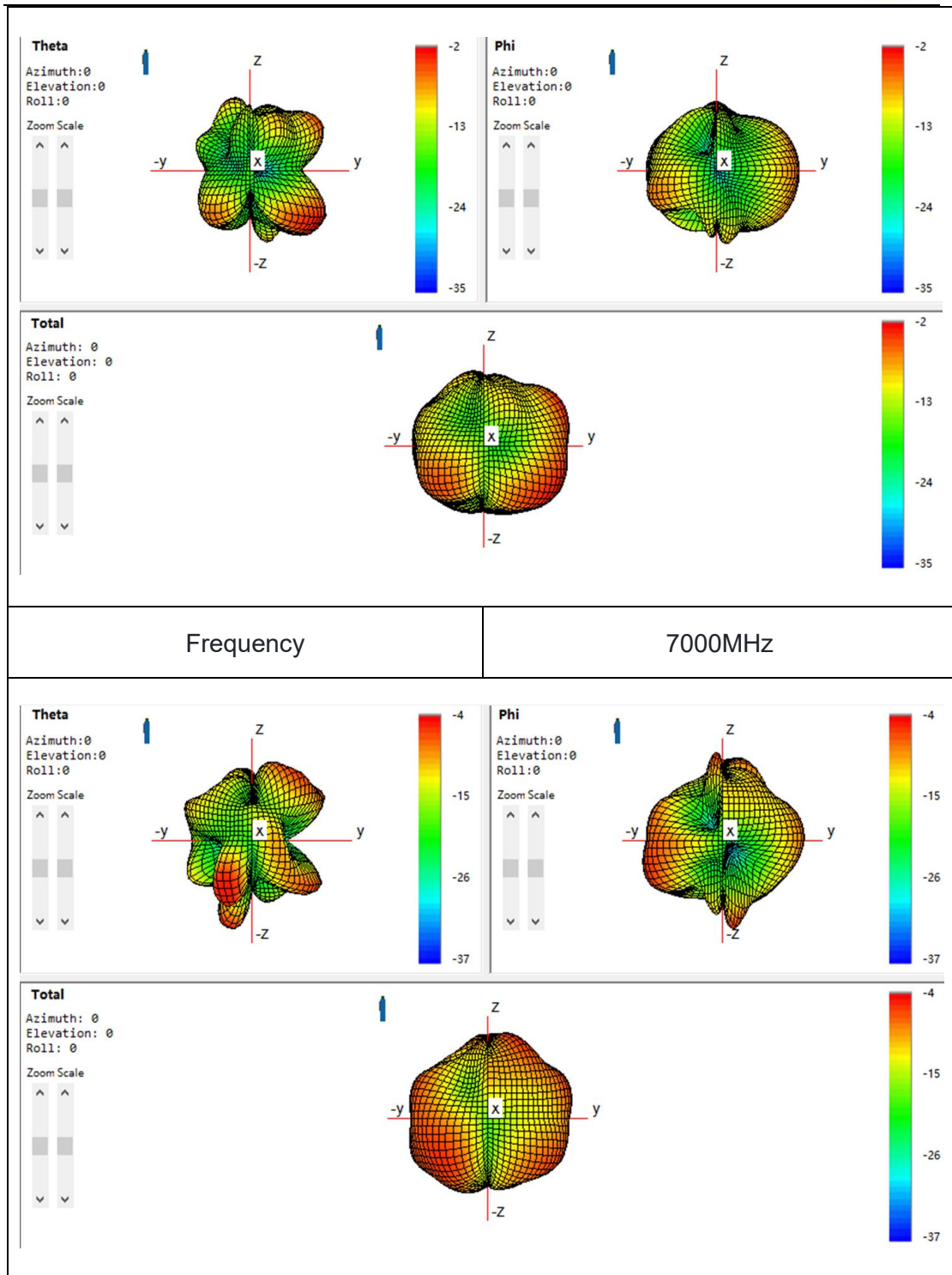


## 方向图











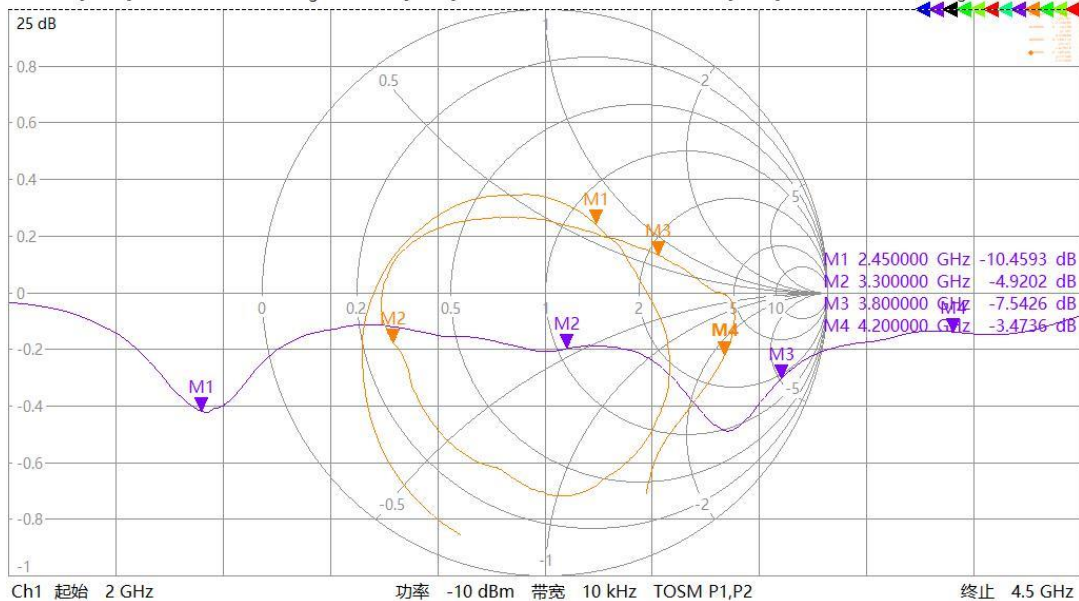


Bands for Antenna 7	WIFI 2.4G ANT				
	Avg.Effi. (dB)	Peak gain(dBi)	EIRP	合路传导功 率	Peak gain(dBi)
2.4G(2400~2485MHz )	-5.6	-1	20	22.4	-2.4
Bluetooth	-5.6	-1	20	22.4	-2.4

### S 参数

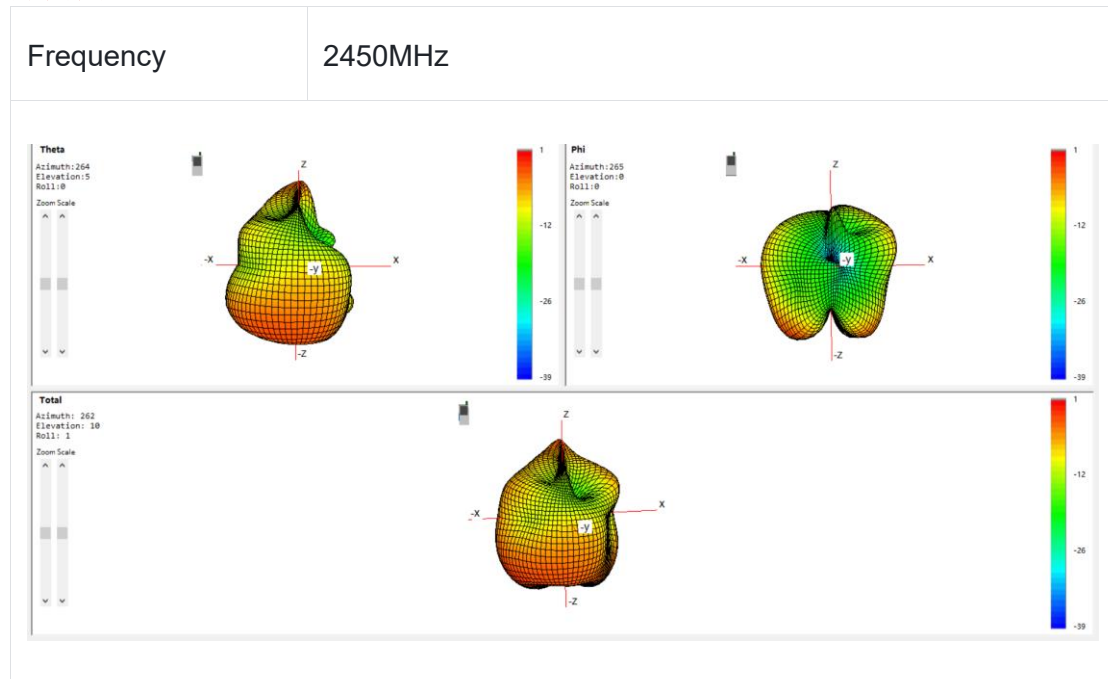
2024/1/27 11:25:27  
1334.3330K42-101232-xM

- Trc18 — S11 dB Mag Trc51 — S11 Smith Mem52[Trc51] — S11 Smith 1 v
- Mem53[Trc18] — S11 dB Mag Mem54[Trc51] — S11 Smith Trc55 — S21 dB Mag
- Mem56[Trc18] — S11 dB Mag Mem57[Trc18] — S11 dB Mag Mem58[Trc51] — S11 Smith
- Mem59[Trc18] — S11 dB Mag Mem60[Trc55] — S21 dB Mag Mem61[Trc55] — S21 dB Mag
- Mem62[Trc18] — S11 dB Mag Mem63[Trc51] — S11 Smith Mem64[Trc55] — S21 dB Mag
- Mem65[Trc18] — S11 dB Mag Mem66[Trc51] — S11 Smith Mem67[Trc55] — S21 dB Mag





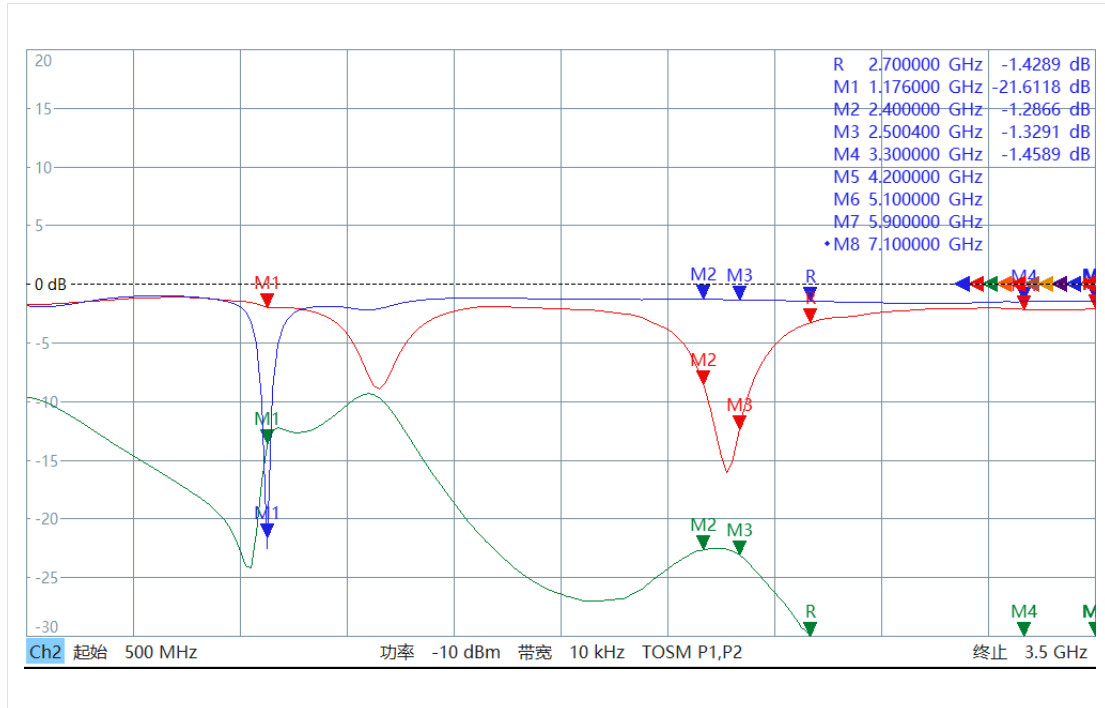
## 方向图



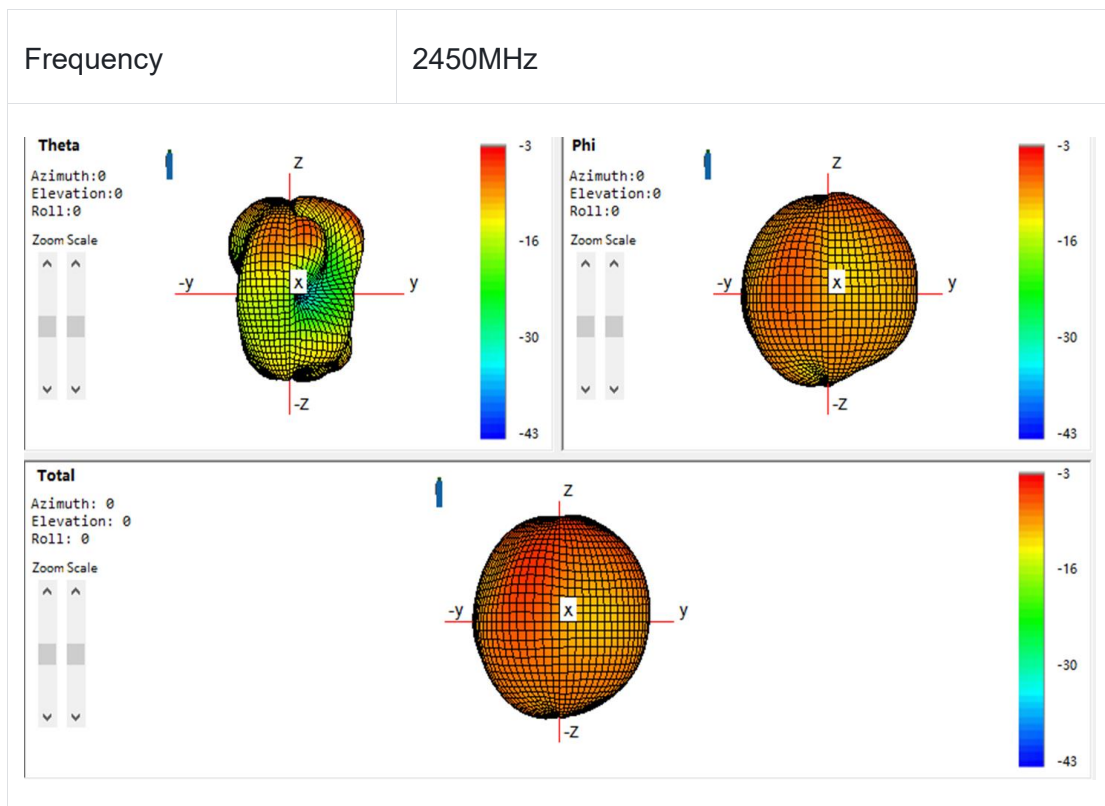
Band for Antenna 16	WIFI_2.4G ANT				
	Avg.Effi (dB)	Peak gain(dBi )	EIRP	合路传导 功率	Peak gain(dBi)
2.4G (2400~2485MHz)	-7dB	-2	20	22.4	-2.4
Bluetooth	-7dB	-2	20	22.4	-2.4



## S 参数



## 方向图

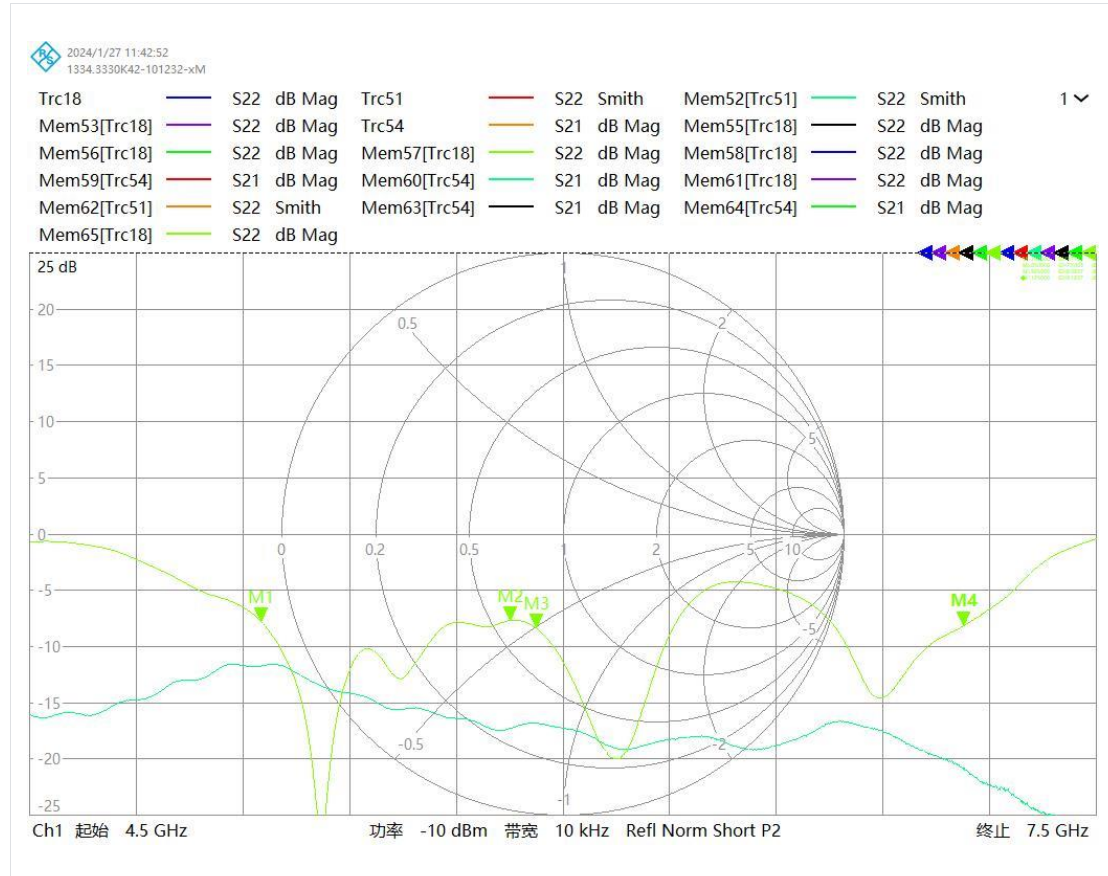




Band for Antenna 17	WIFI_5G ANT				
	Avg.Effi.(dB)	Peak gain(dBi)	EIRP	合路传导功率	Peak gain(dBi)
5G (5150~5250MHz)	-6.4	-2.8			
5G (5250~5350MHz)	-6	-1.6		/	
5G (5470~5725MHz)	-6.7	-1.7			
5G (5470~5850MHz)	-6.3	-1.7			
6G (5925-6425GHz)	-6	-1.9			
6G (6425-6525GHz)	-6.5	-3.5		/	
6G (6525-6875GHz)	-1.2	-6.2			
6G (6875-7125GHz)	-1.9	-7			

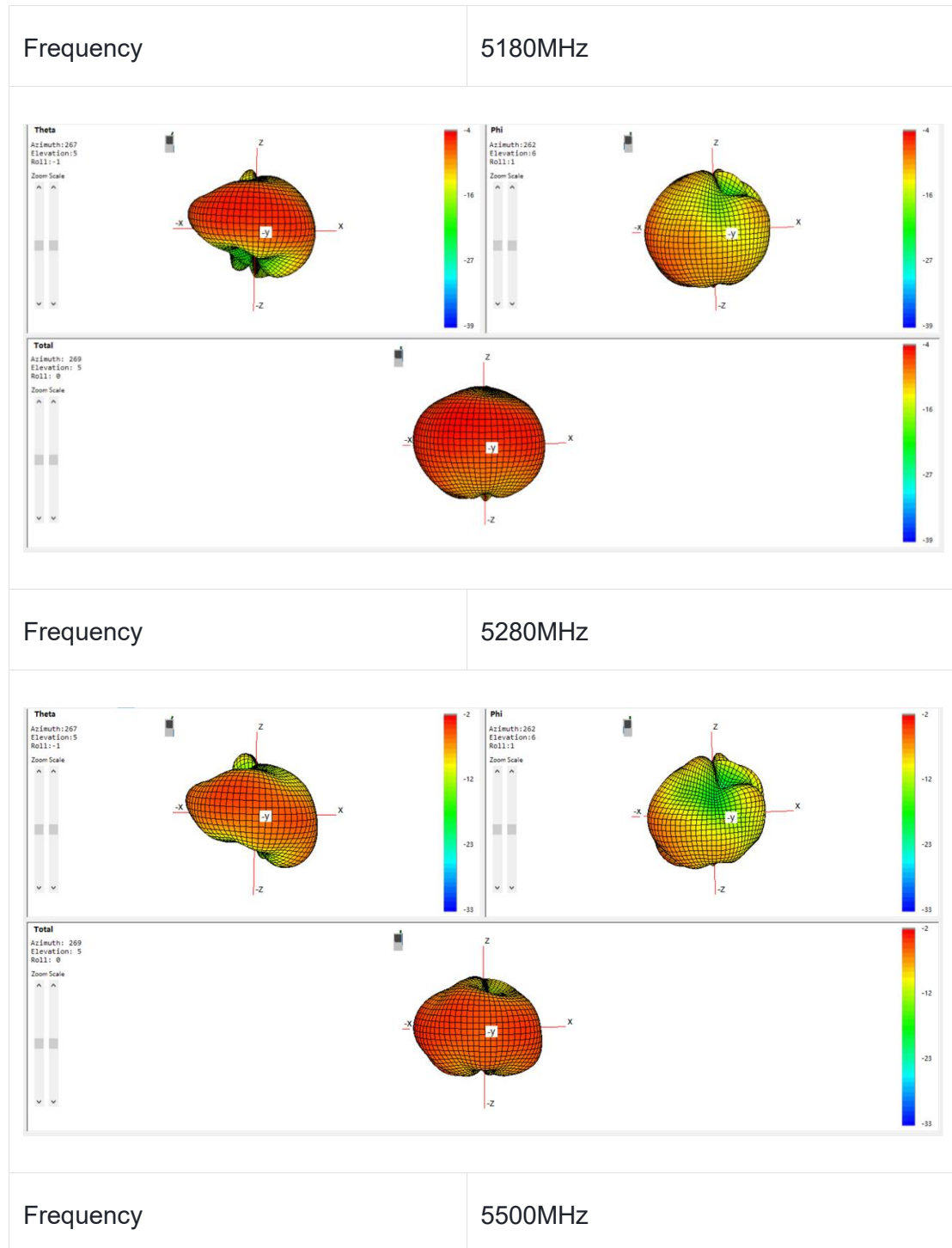


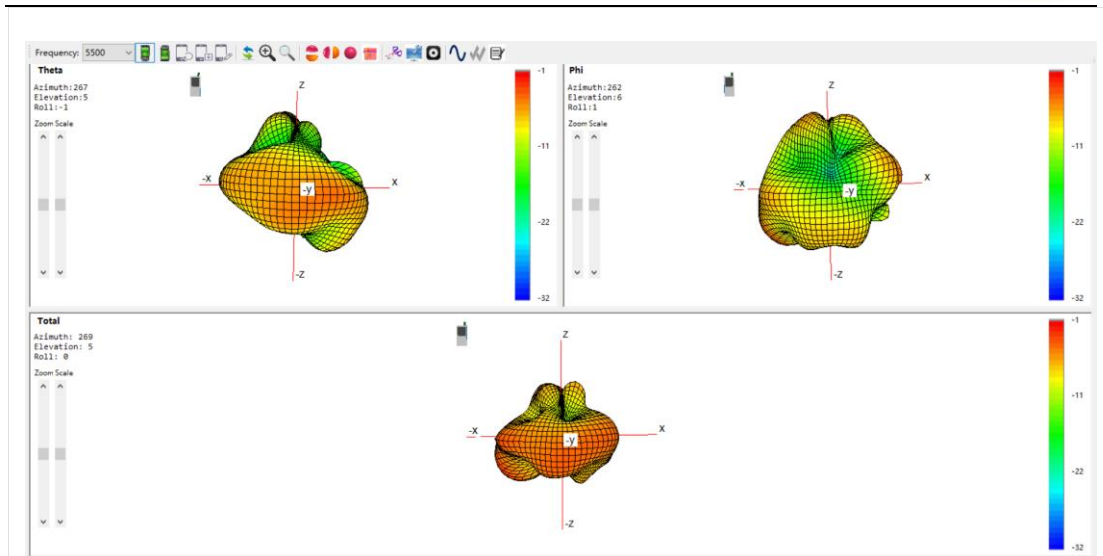
## S 参数





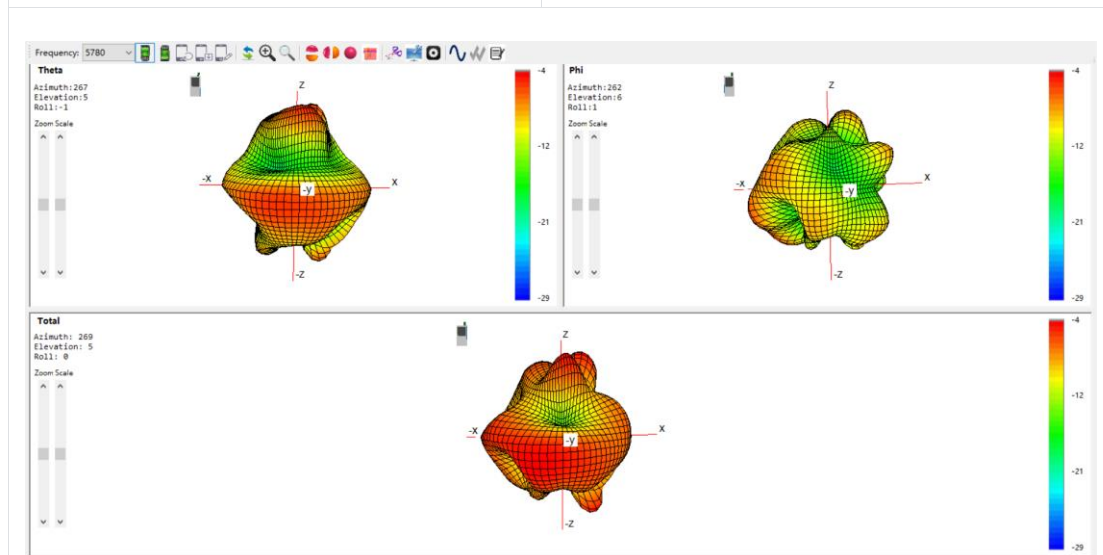
## 方向图





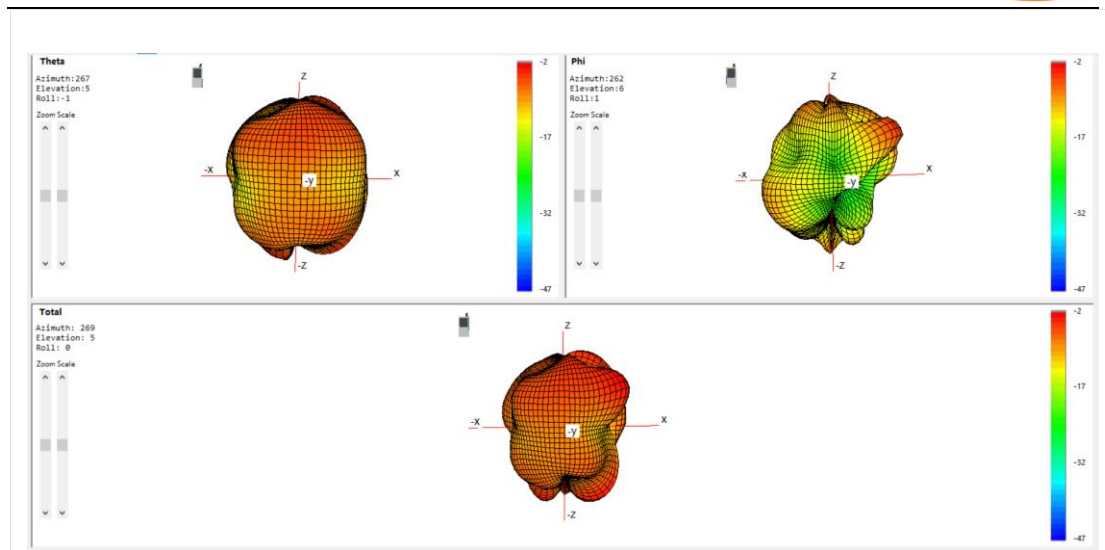
Frequency

5785MHz



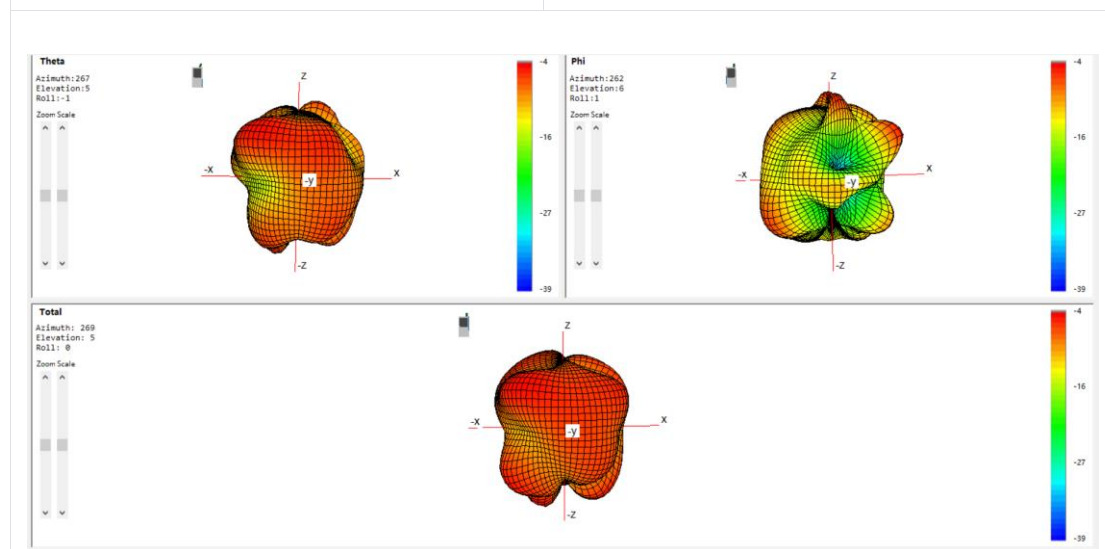
Frequency

6250MHz



Frequency

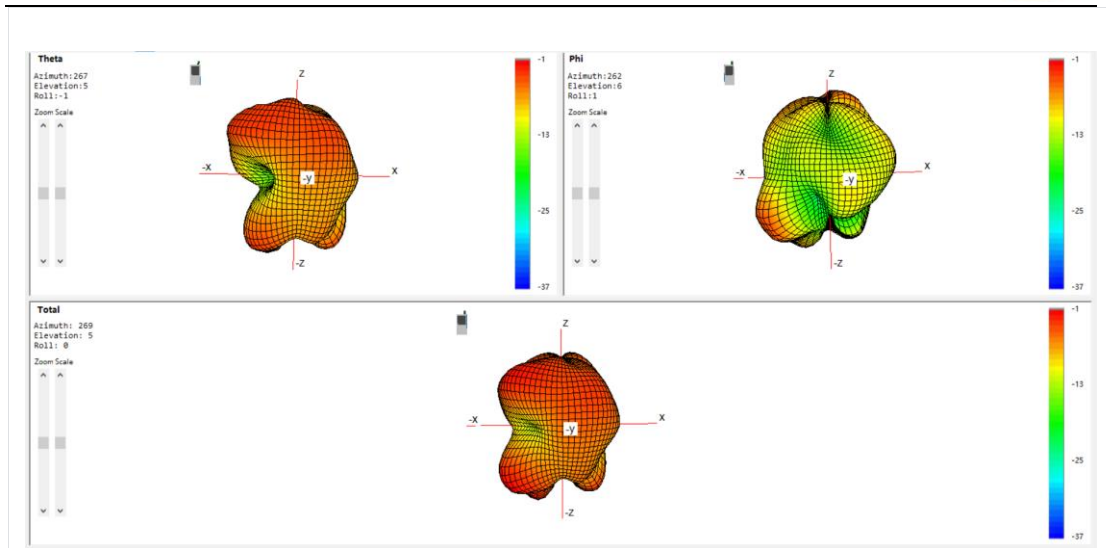
6450MHz



Frequency

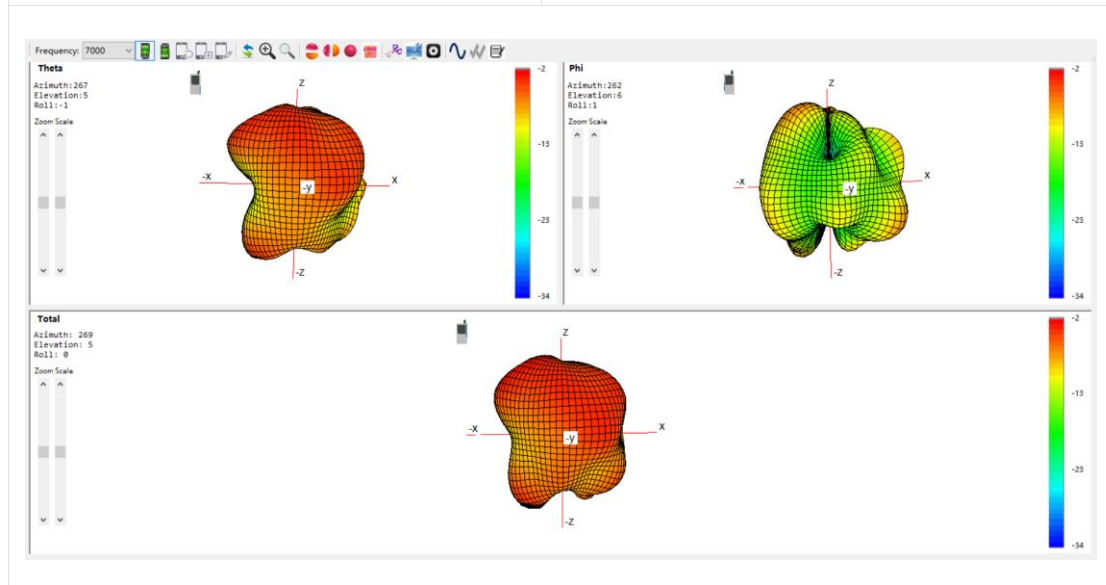
6700MHz





Frequency

7000MHz



### 3. Main Test Instruments

Name	Manufacturer	Model name	Serial Number	Cal., Date	Exp., Date
E5071C	KEYSIGHT	E5071C	EQ80224	2024-4-6	2025-4-6



4. Test sofot:

GTS MaxSign- RayZone2800D\_Z

End of Test Report