



Antenna Performance Description

Applicant: Xiaomi Communications Co., Ltd

Product description: Mobile Phone

Model Name: 2506BPN68G

FCC ID: 2AFZZPN68G

Test date: 2025/05/16



1. Antenna information

Antenna	Pattern	Antenna Type	Manufacturer	Manufacturer Address	Test party of Antenna gain
ANT6	Metal Frame	PIFA Antenna	XIAOMI	Floor 9th, Tower 1, Novel Park, No.4078 Dongbin Road, Nanshan District, Shenzhen.	Shenzhen Xiaomi Communications Co., Ltd.
ANT10	Metal Frame	PIFA Antenna	XIAOMI	Floor 9th, Tower 1, Novel Park, No.4078 Dongbin Road, Nanshan District, Shenzhen.	Shenzhen Xiaomi Communications Co., Ltd.
ANT8	Metal Frame	PIFA Antenna	XIAOMI	Floor 9th, Tower 1, Novel Park, No.4078 Dongbin Road, Nanshan District, Shenzhen.	Shenzhen Xiaomi Communications Co., Ltd.
ANT17	Metal Frame	PIFA Antenna	XIAOMI	Floor 9th, Tower 1, Novel Park, No.4078 Dongbin Road, Nanshan District, Shenzhen.	Shenzhen Xiaomi Communications Co., Ltd.



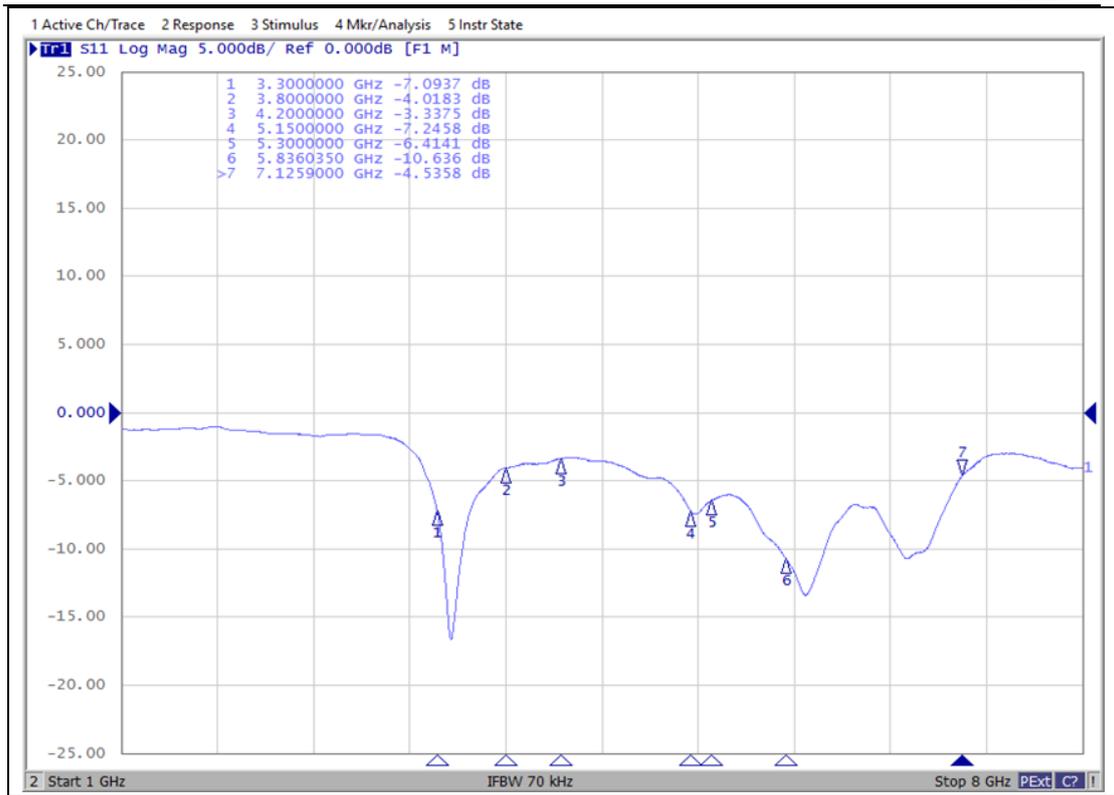
NFC	FPC	IFA	Kunshan Innowave Communication Technology Co., Ltd. XIAOMI	Building 4, Zone A, Hong Xin Tai Industrial Park, No.28 Yinying Road, Gaoying Village, Dongguan City Floor 9th, Tower 1, Novel Park, No.4078 Dongbin Road, Nanshan District, Shenzhen.	Shenzhen Xiaomi Communications Co., Ltd.
WPT	FPC+Nano	Coil	Luxshare Precision Industry Co.,Ltd.	The intersection of Selenium Valley Road and Selenium Garden Road, Songshuping Village, Liujiatong Sub- office, Enshi, Hubei	Shenzhen Xiaomi Communications Co., Ltd.



2. Test data

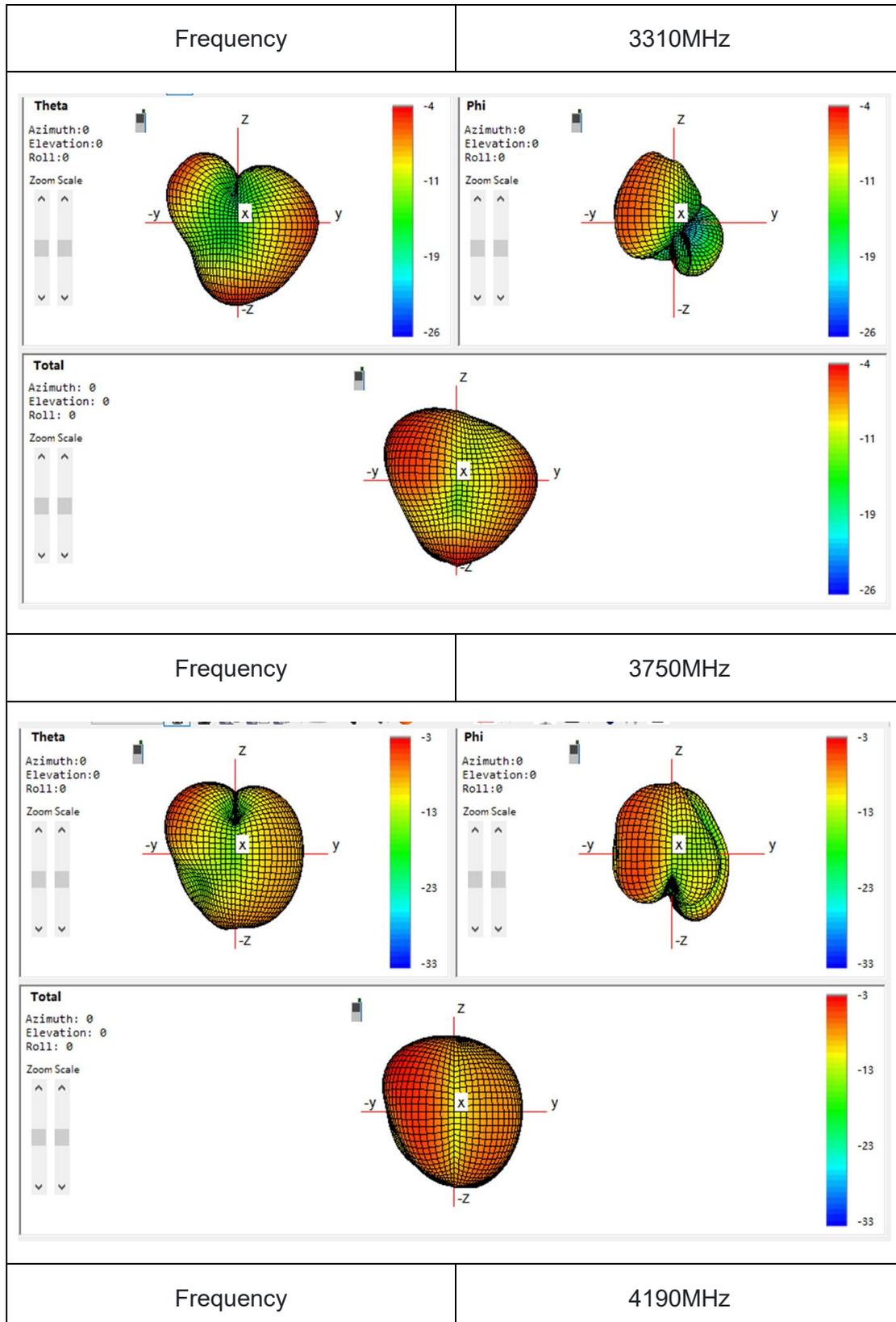
Bands for Antenna 6	Avg.Effi.(dB)	Peak gain(dBi)
	5G (5150~5250MHz)	-6.9
5G (5250~5350MHz)	-7.5	-3
5G (5470~5725MHz)	-7.9	-0.6
5G (5470~5850MHz)	-7.9	-0.6
6G (5925-6425GHz)	-7	-0.5
6G (6425-6525GHz)	-8.1	-2.3
6G (6525-6875GHz)	-7.4	-0.7
6G (6875-7125GHz)	-8.9	-2

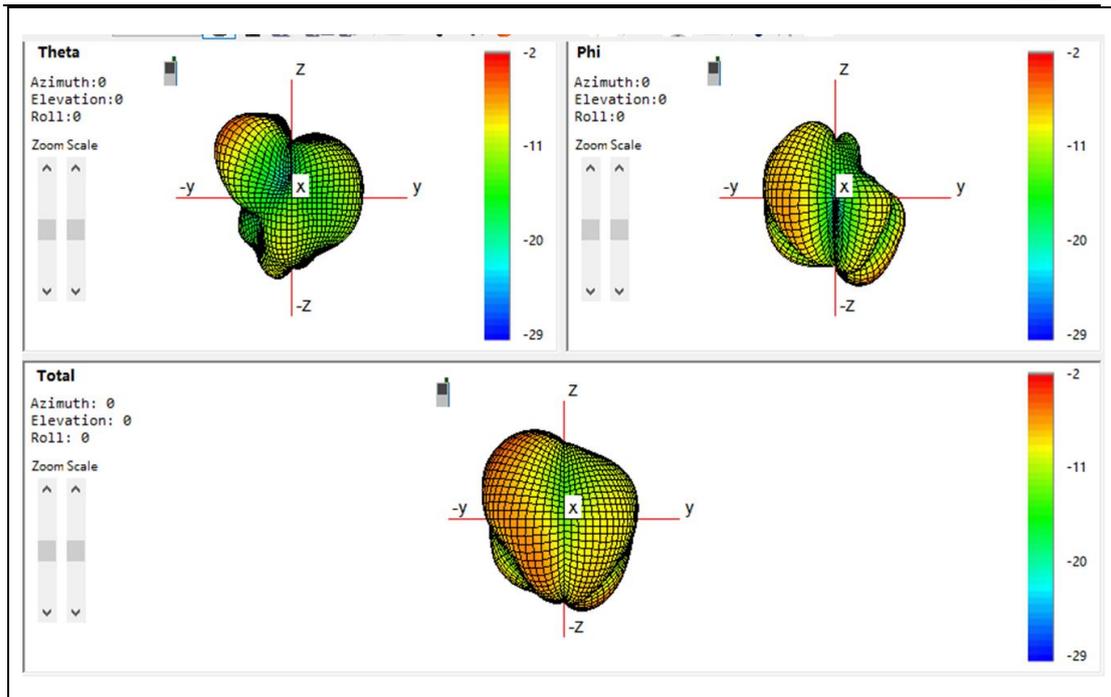
S 参数





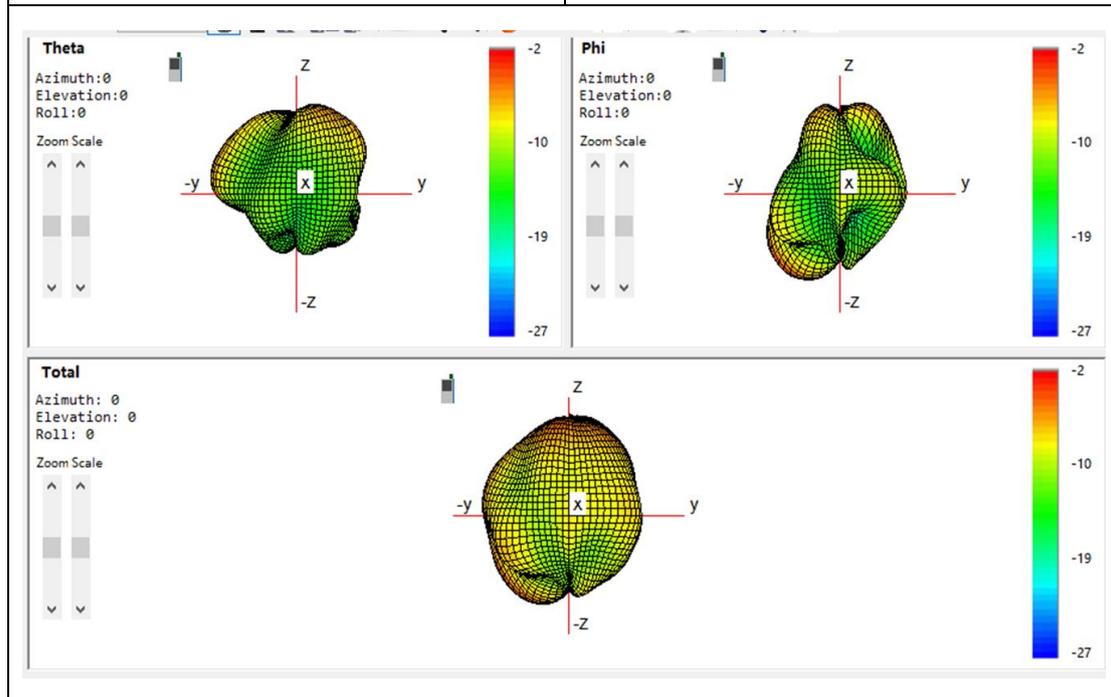
方向图





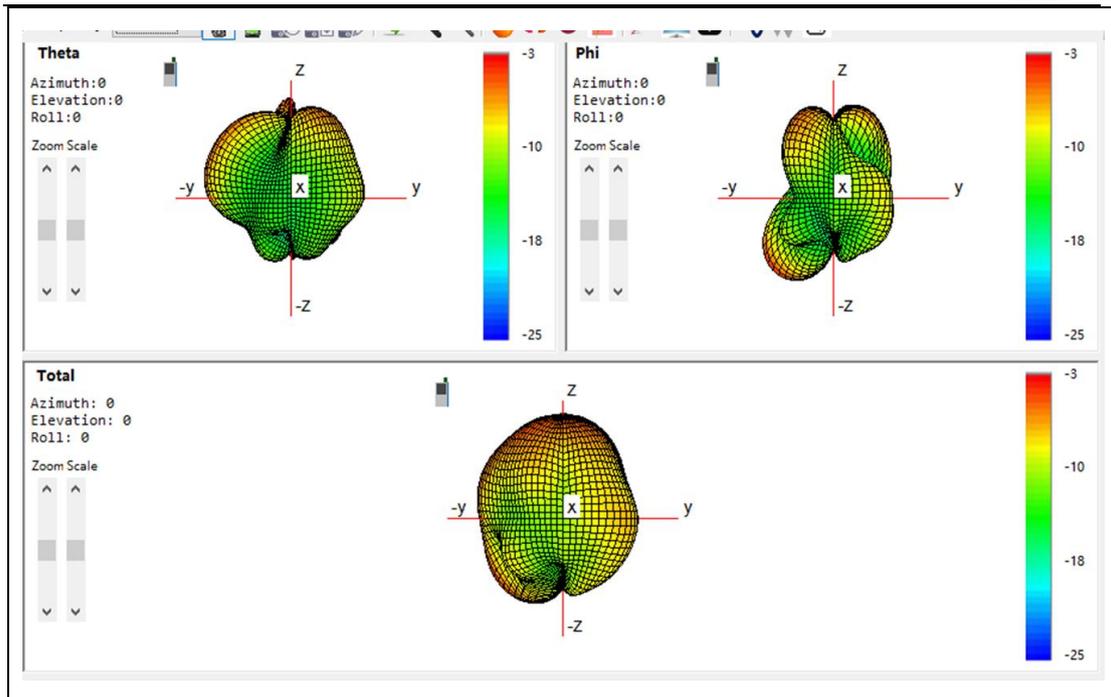
Frequency

5180MHz



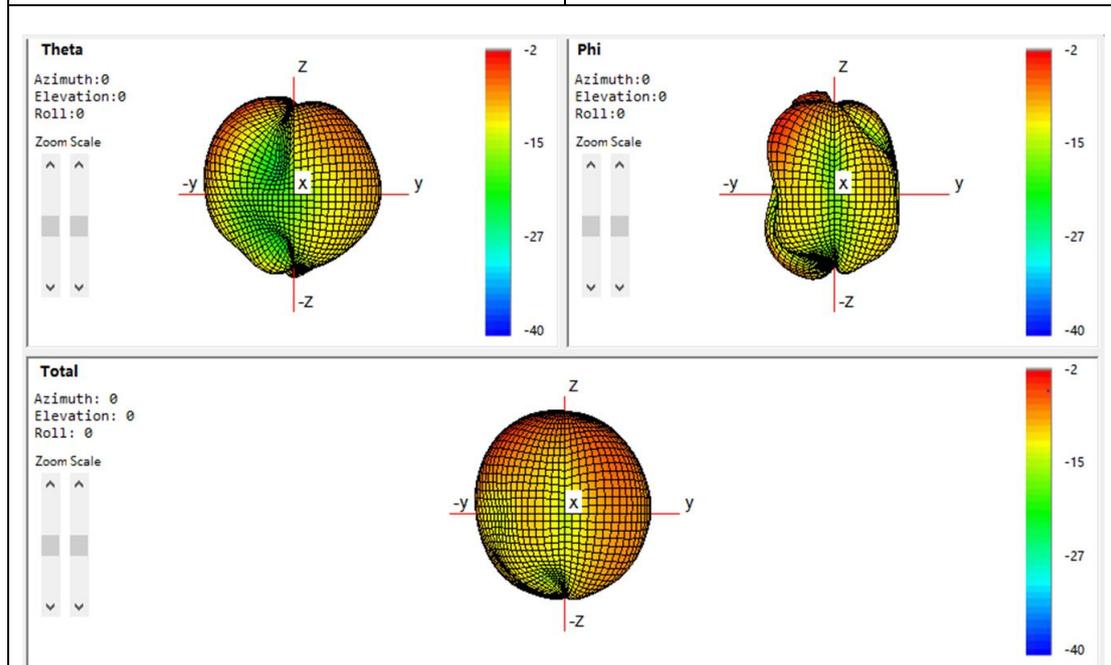
Frequency

5280MHz



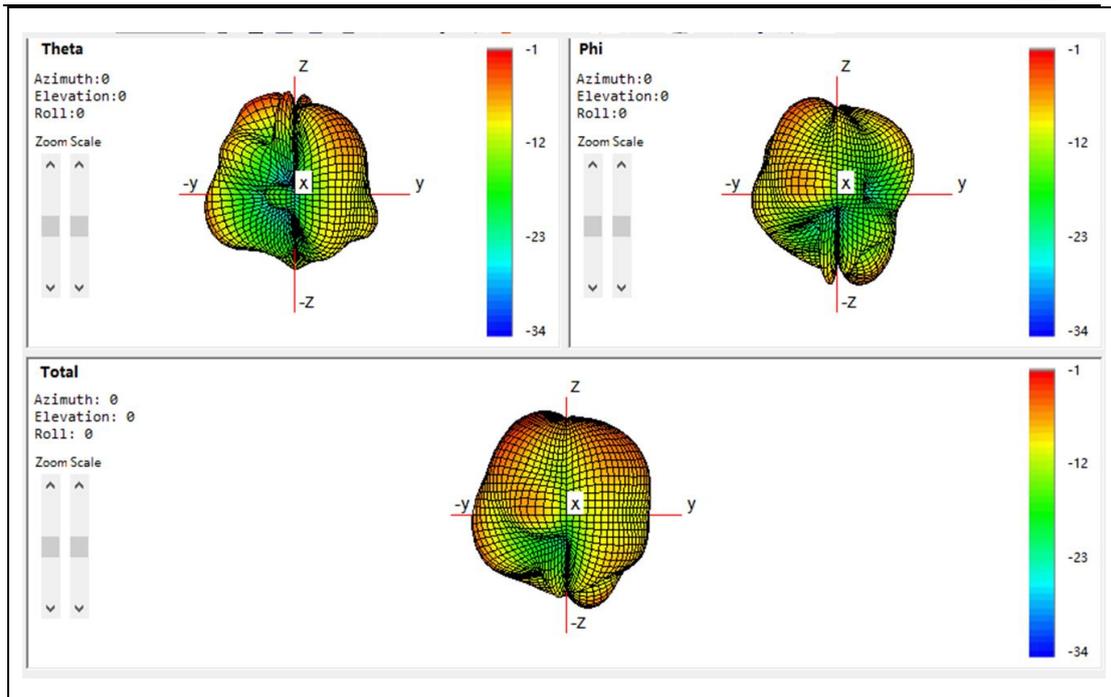
Frequency

5500MHz



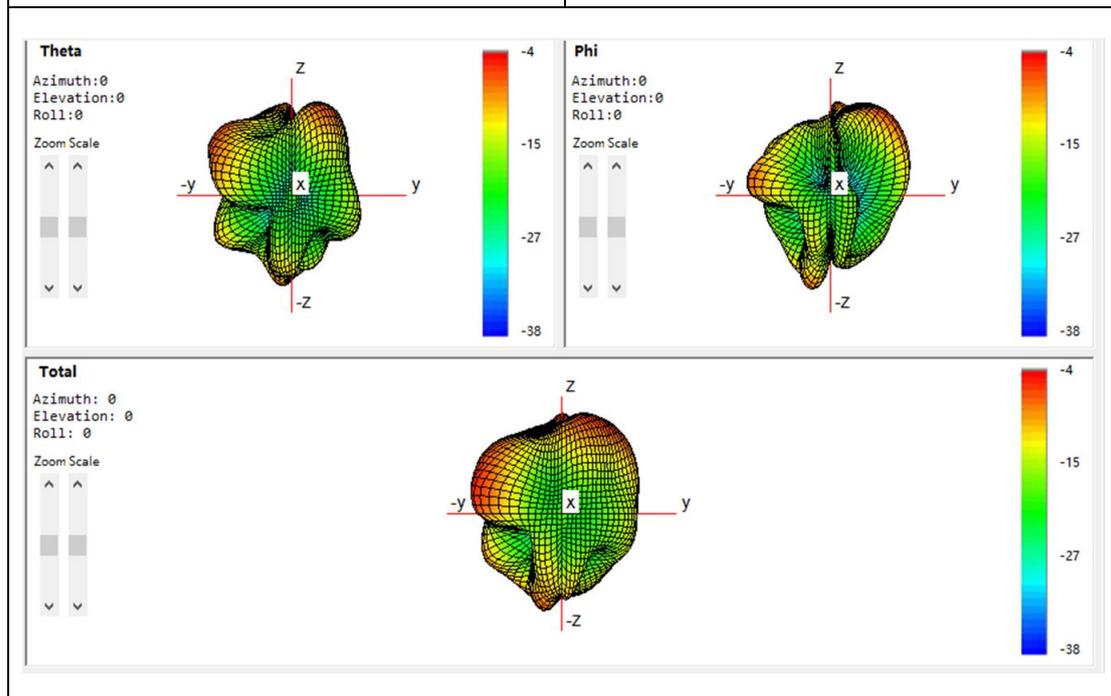
Frequency

5785MHz



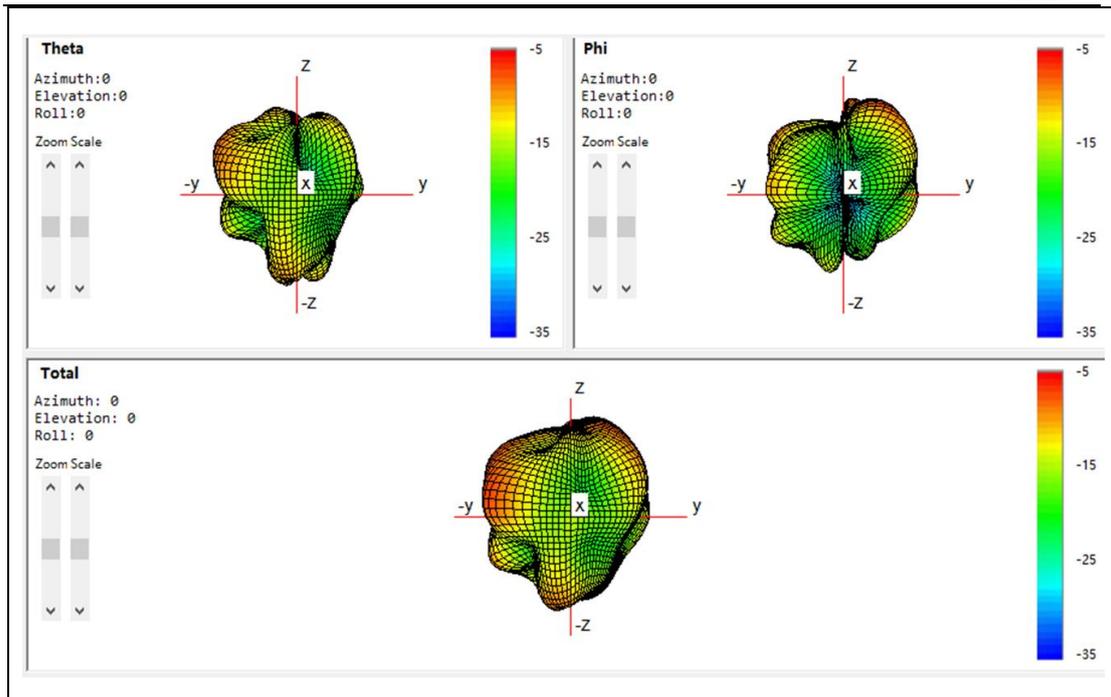
Frequency

6250MHz



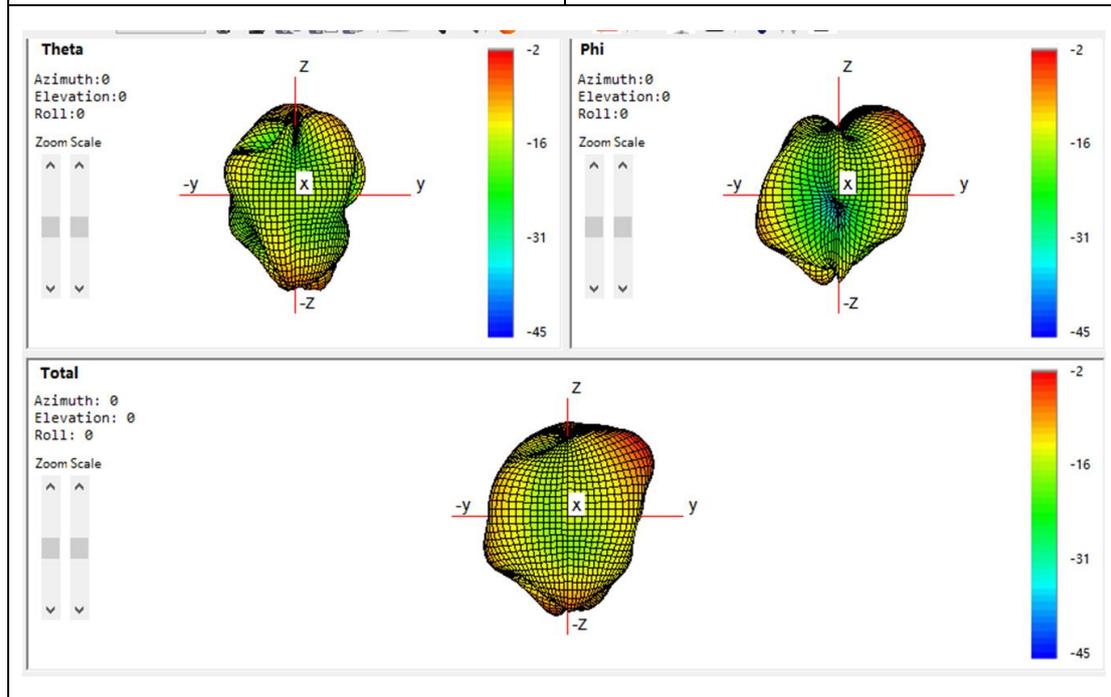
Frequency

6450MHz



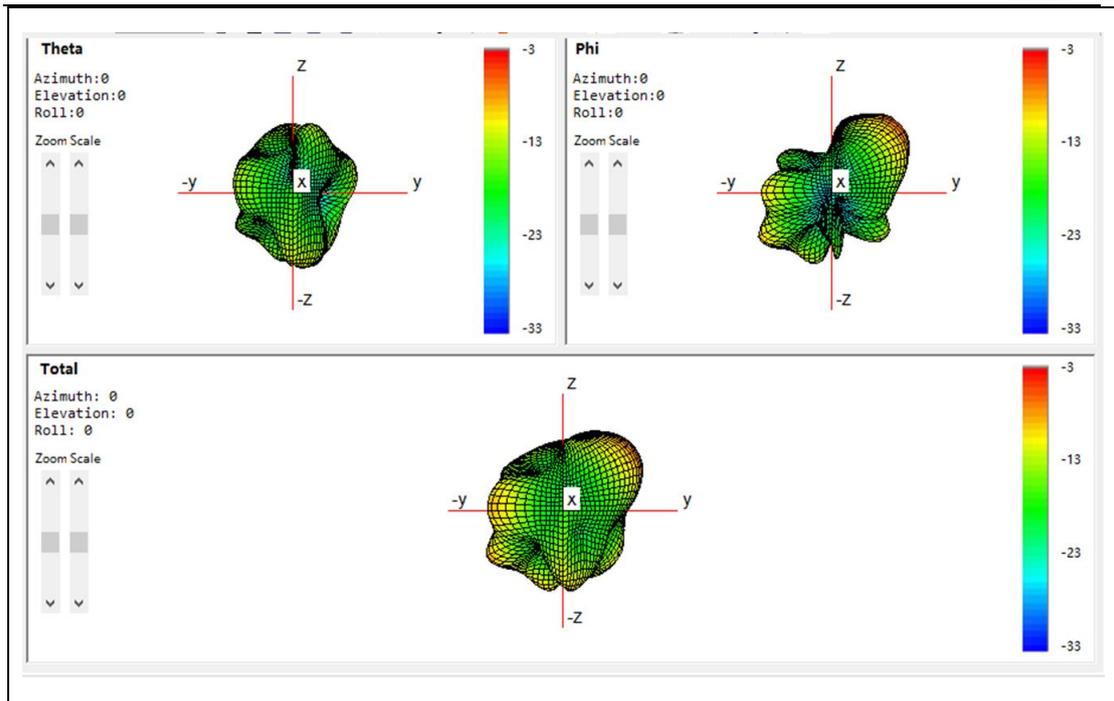
Frequency

6700MHz



Frequency

7000MHz

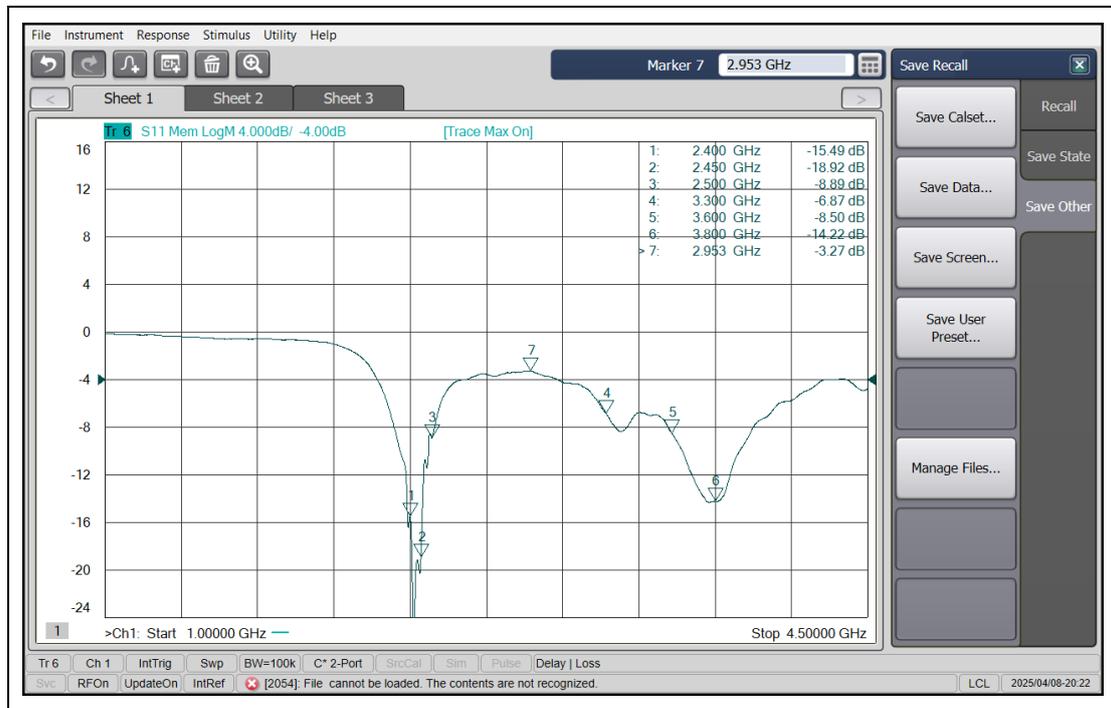




Bands for Antenna 8

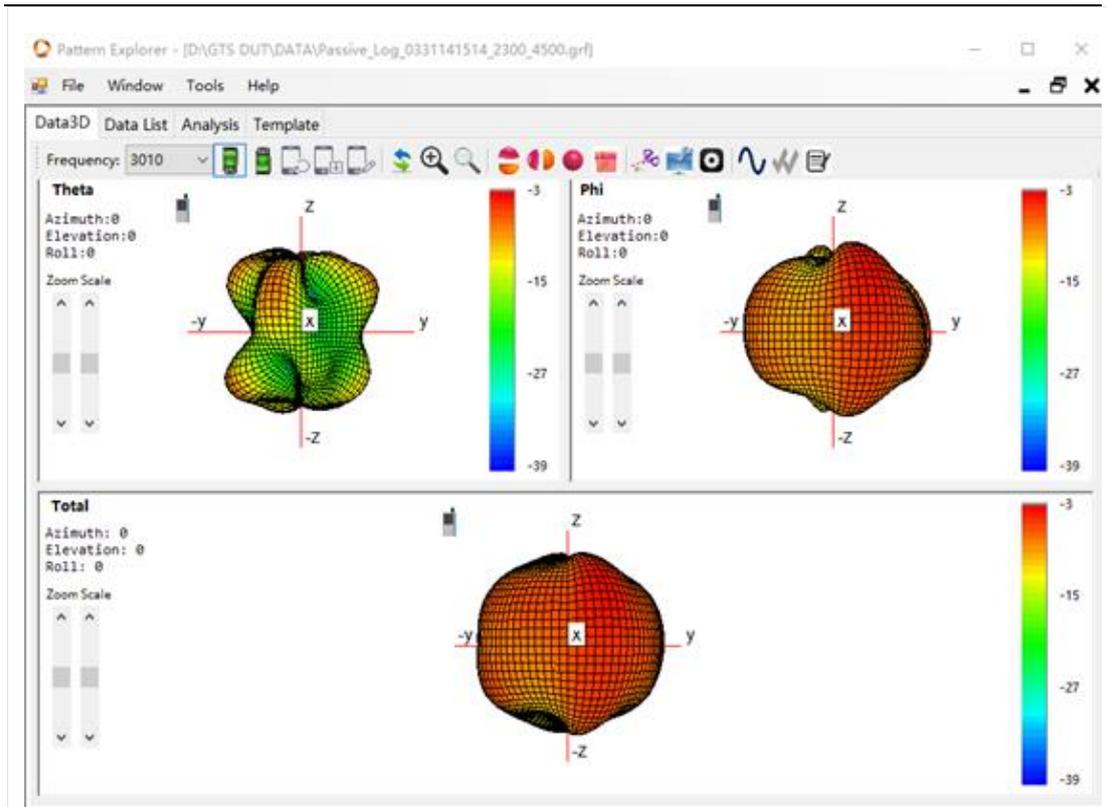
	Avg.Effi. (dB)	EIRP	合路传导功 率	Peak gain(dBi)
2.4G(2400~2485MHz)	-4.8	18.8	22	-0.83
Bluetooth	-4.8	/	/	-0.83

S 参数



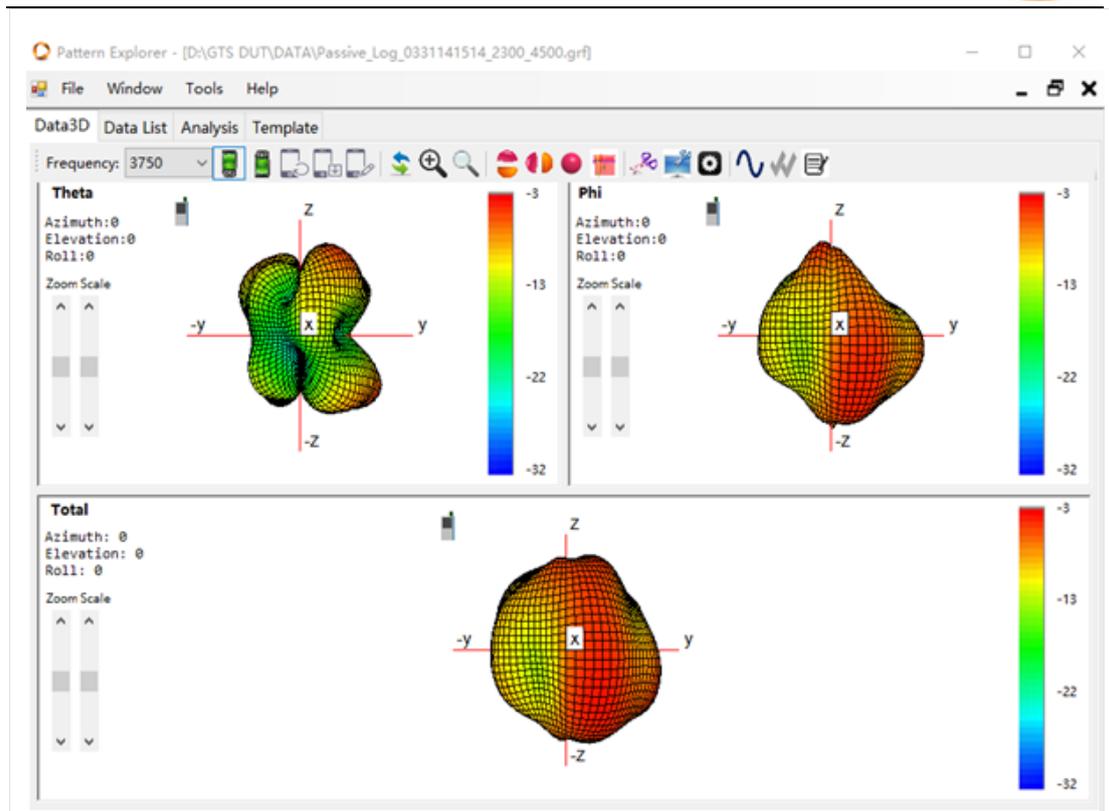
方向图

Frequency	3310MHz
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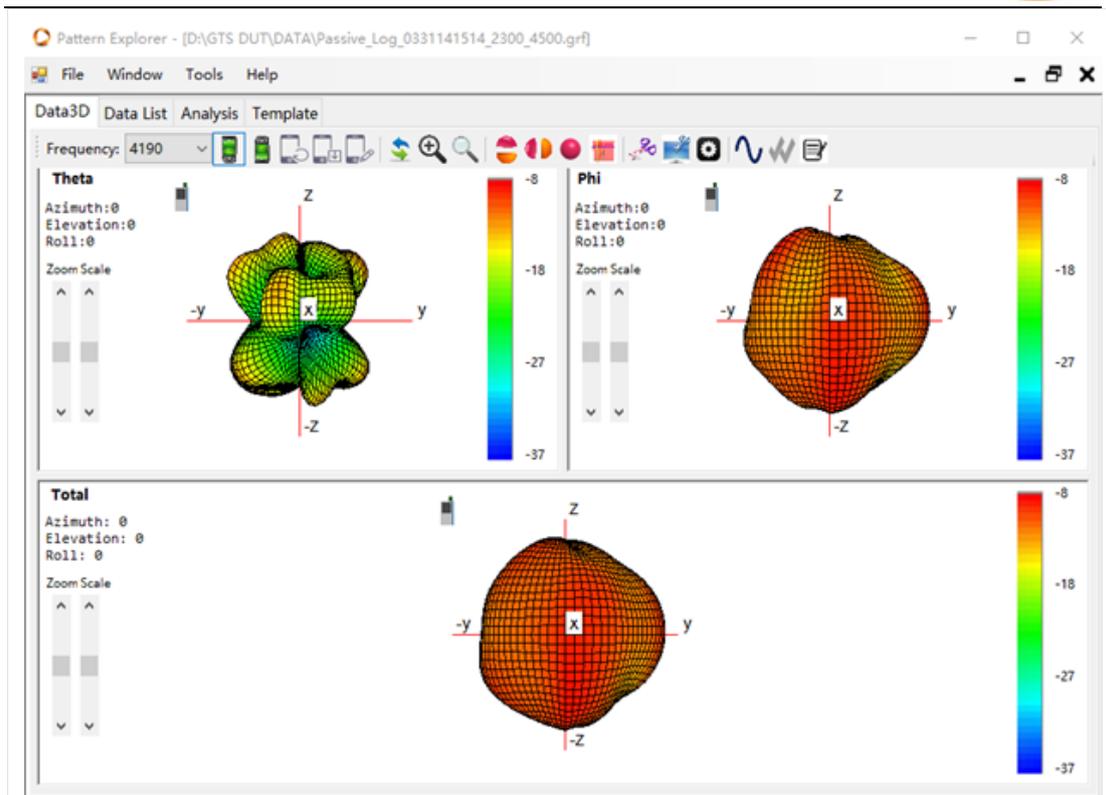
Frequency

3750MHz



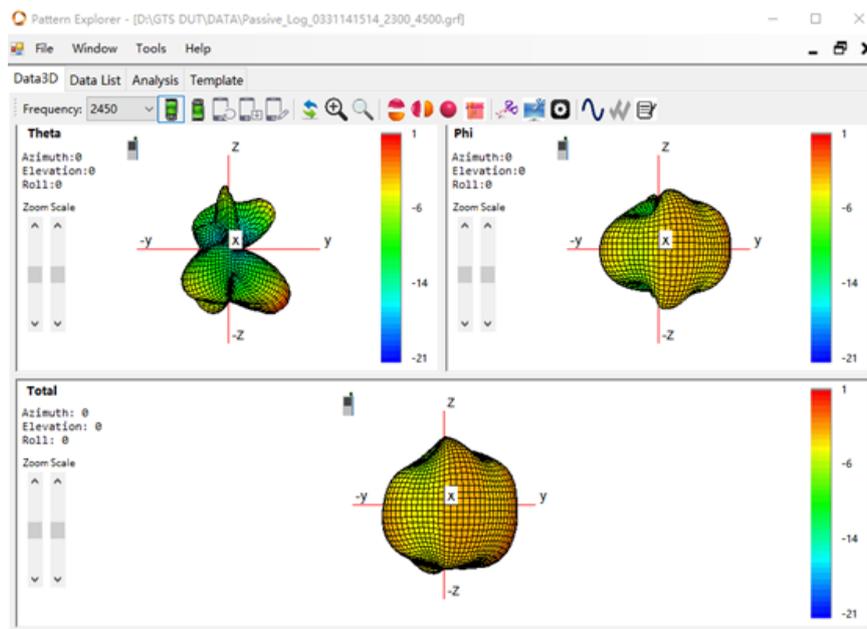
Frequency

4190MHz



Frequency

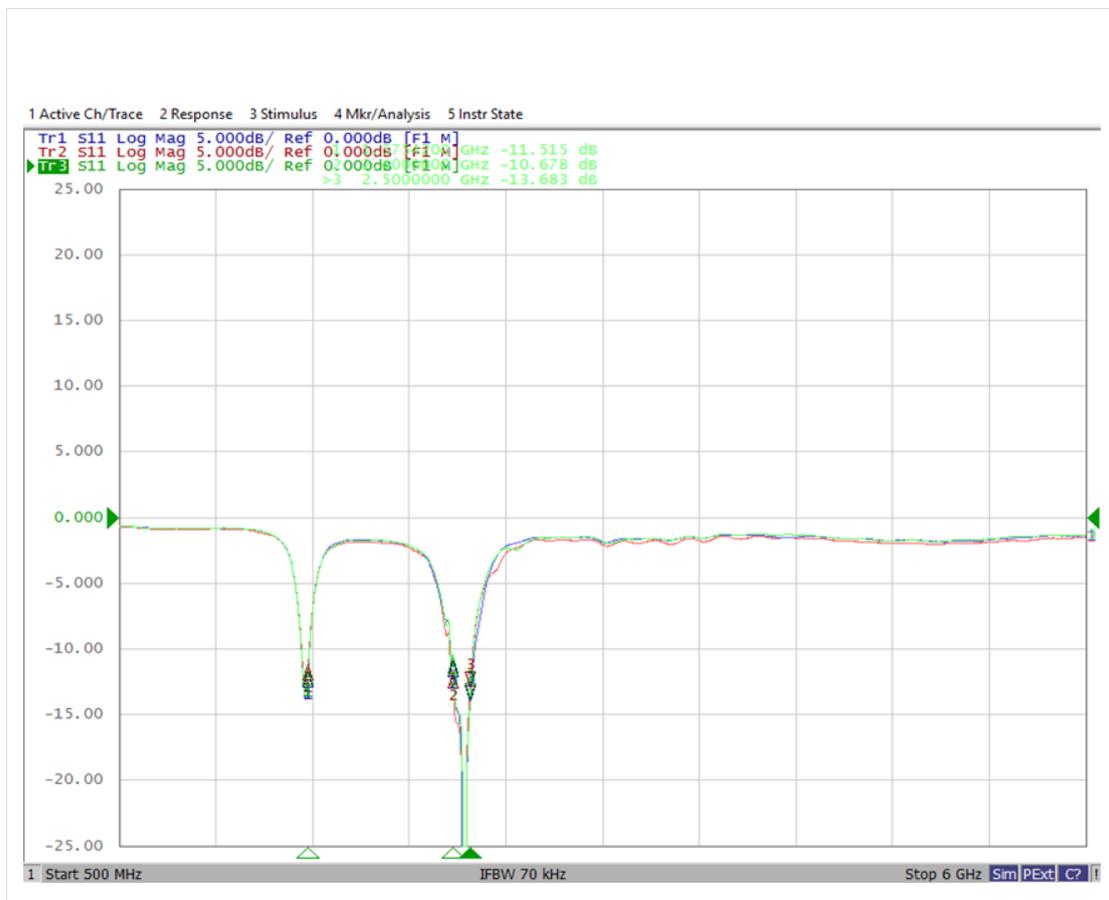
2450MHz





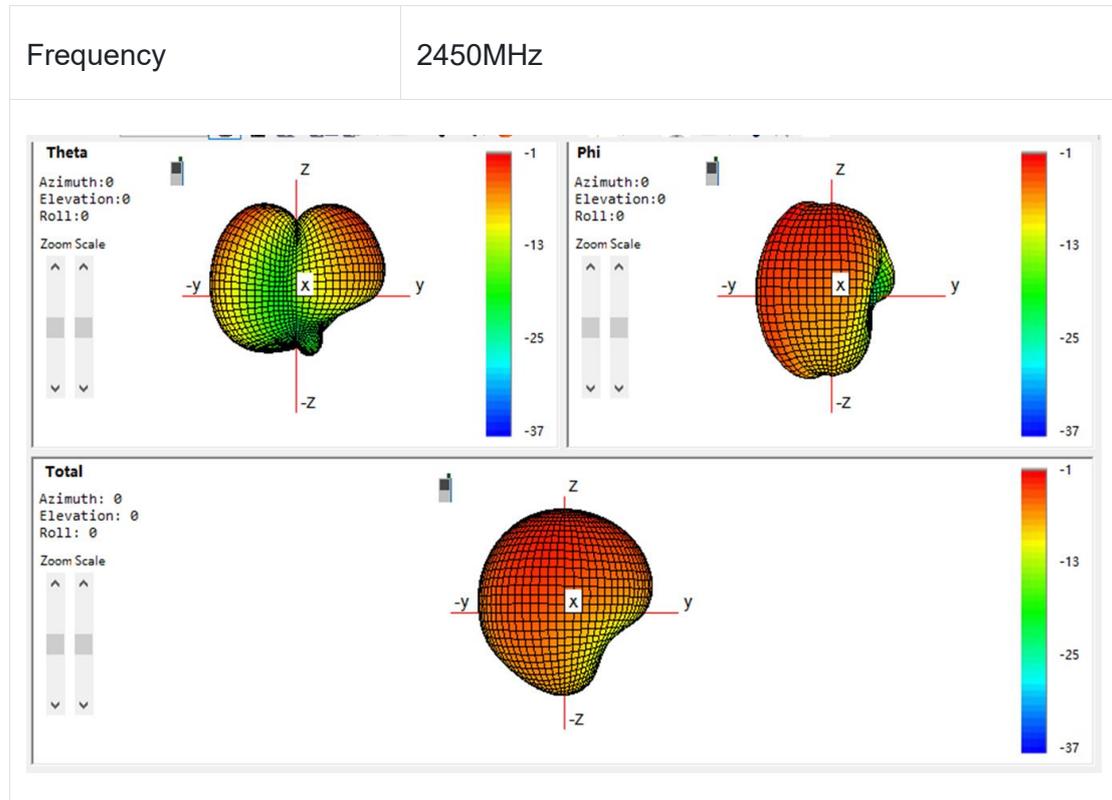
Band for Antenna 10	Avg.Effi .dB	EIRP	合路传导 功率	Peak gain(dBi)
2.4G (2400~2485MHz)	-5.4	18.8	22	-1.5
Bluetooth	-5.4	/	/	-1.5
B32/N75	-8.7	/	/	-3.6

S 参数





方向图

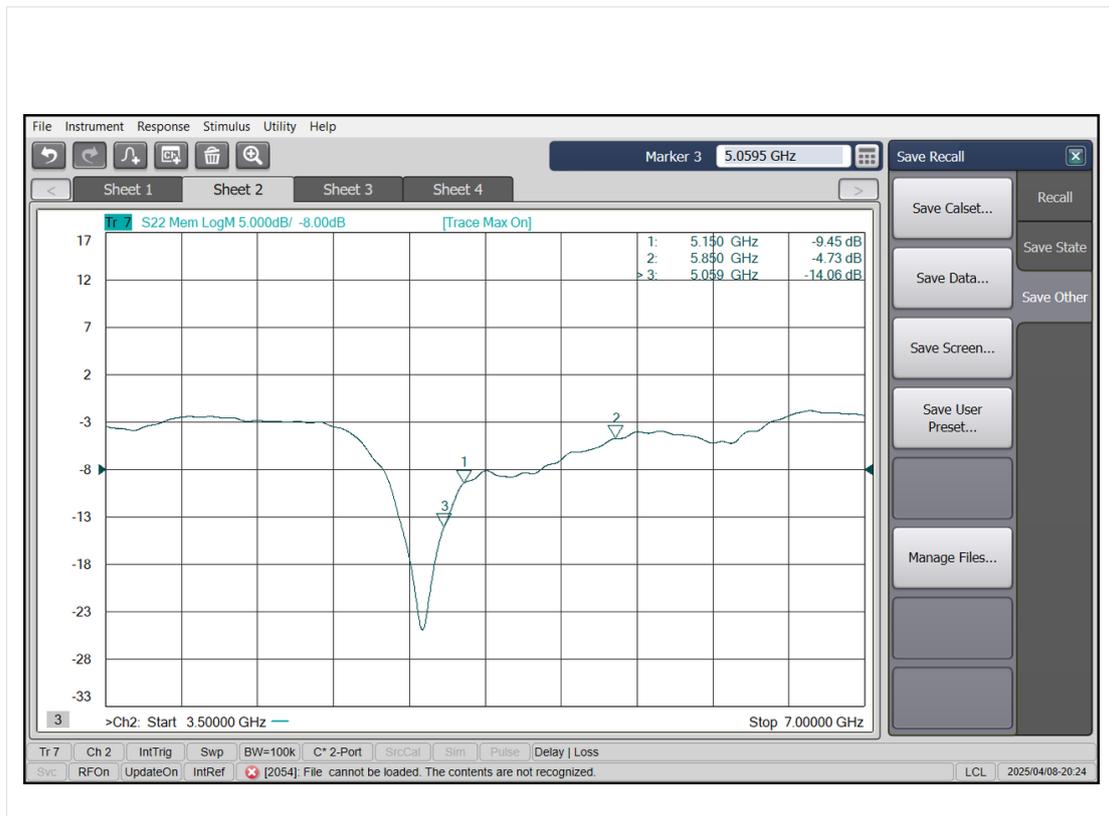


Band for Antenna 17	Avg.Effi.(dB)	EIRP	合路传导功率	Peak gain(dBi)
	5G (5150~5250MHz)	-6.9	18.1	22
5G (5250~5350MHz)	-7.1	17.4	22	-1.1
5G (5470~5725MHz)	-8.6	17.2	22	-3.58
5G (5470~5850MHz)	-8.5	19	22	-3.58



6G (5925-6425GHz)	-7.7	19.5	20	-0.5
6G (6425-6525GHz)	-8.7	17.7	20	-2.3
6G (6525-6875GHz)	-9.3	19.3	20	-0.7
6G (6875-7125GHz)	-8.9	18	20	-2

S 参数

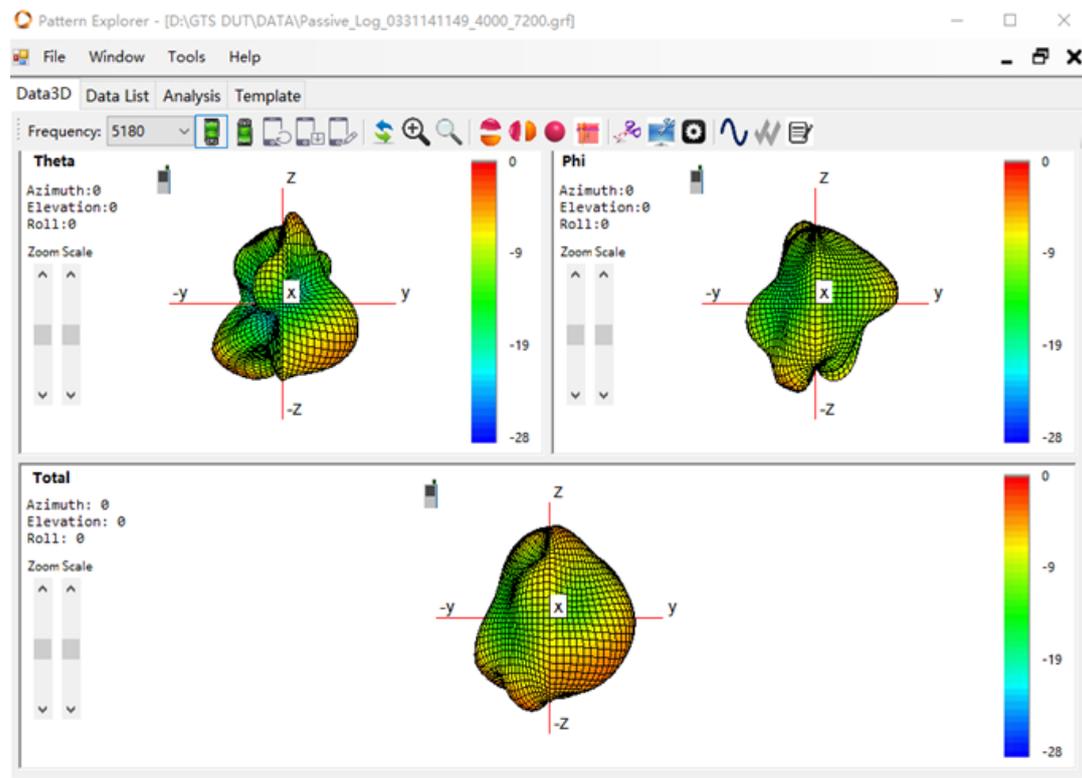


方向图



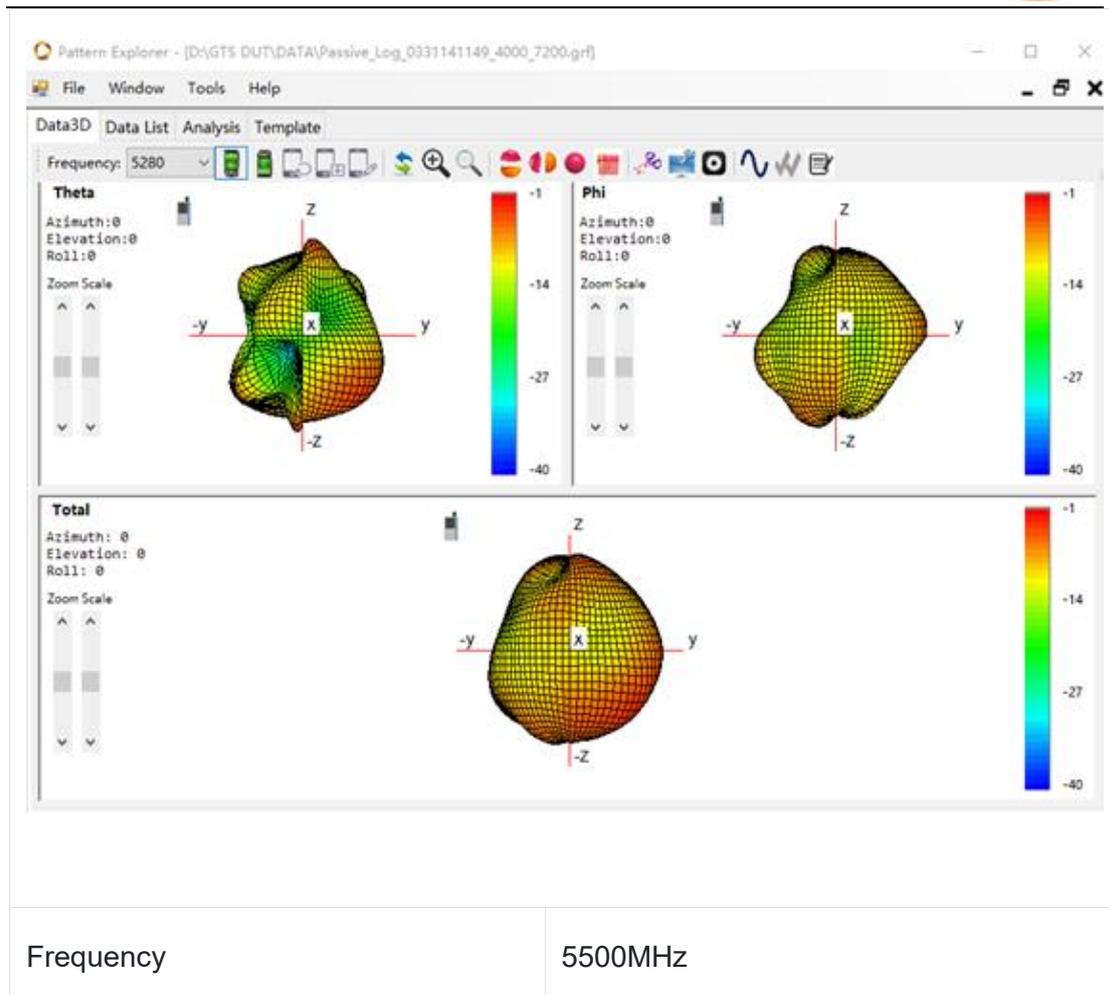
Frequency

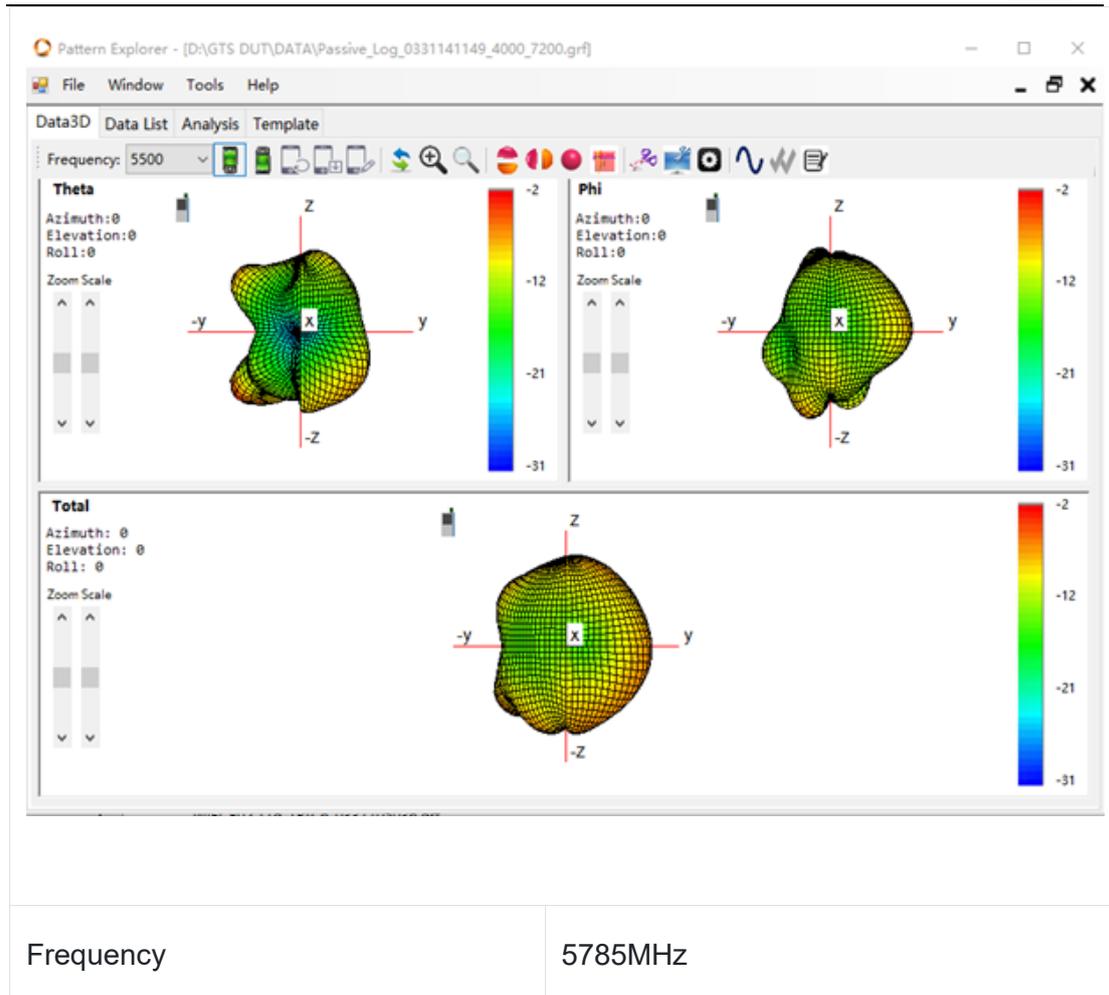
5180MHz

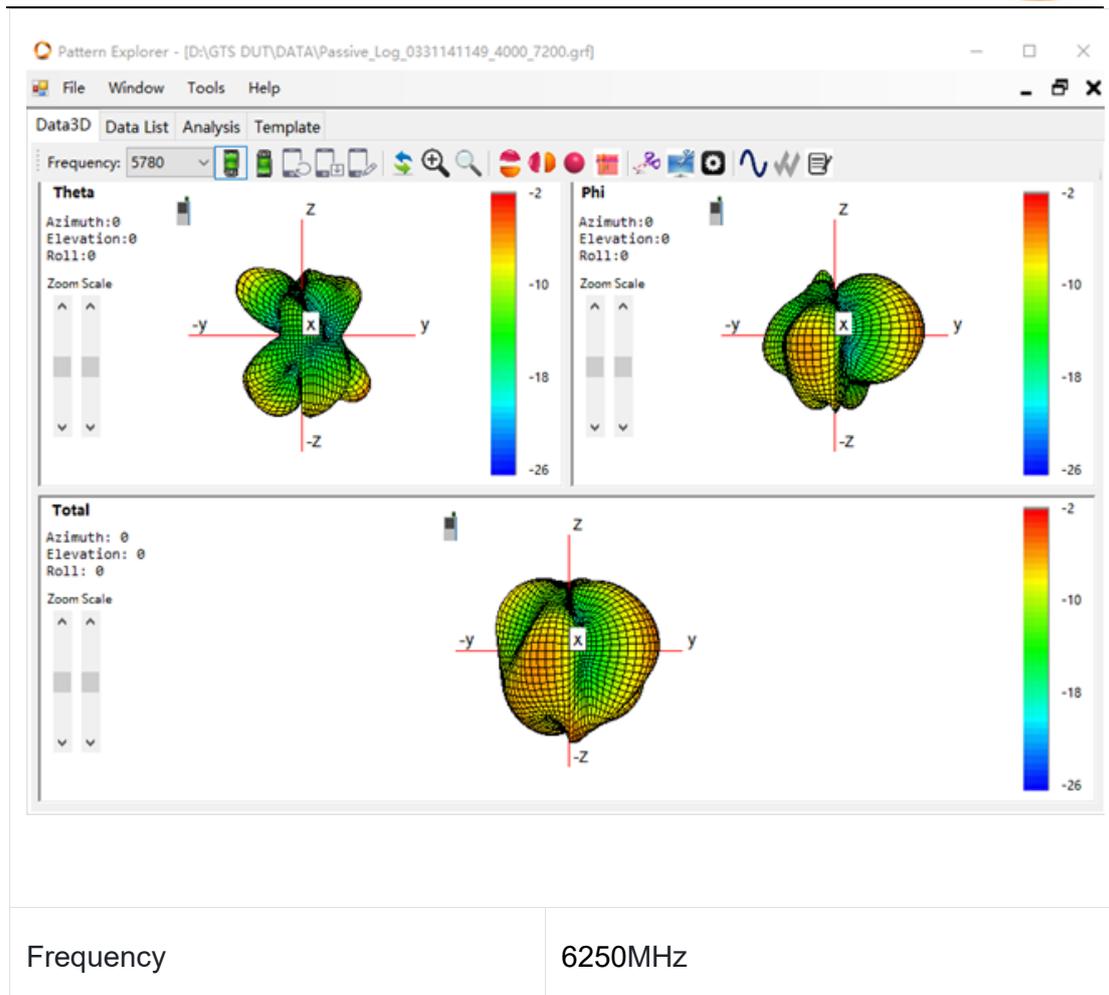


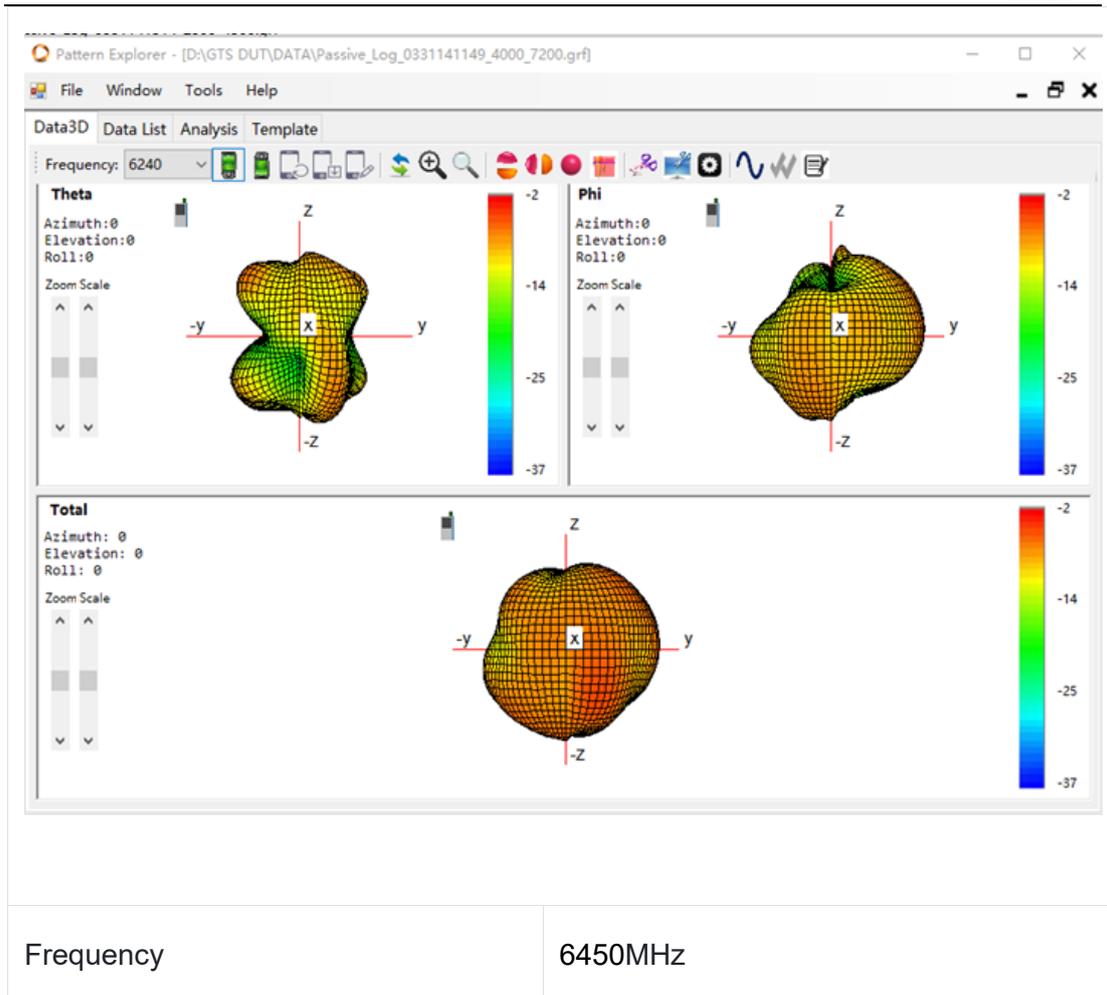
Frequency

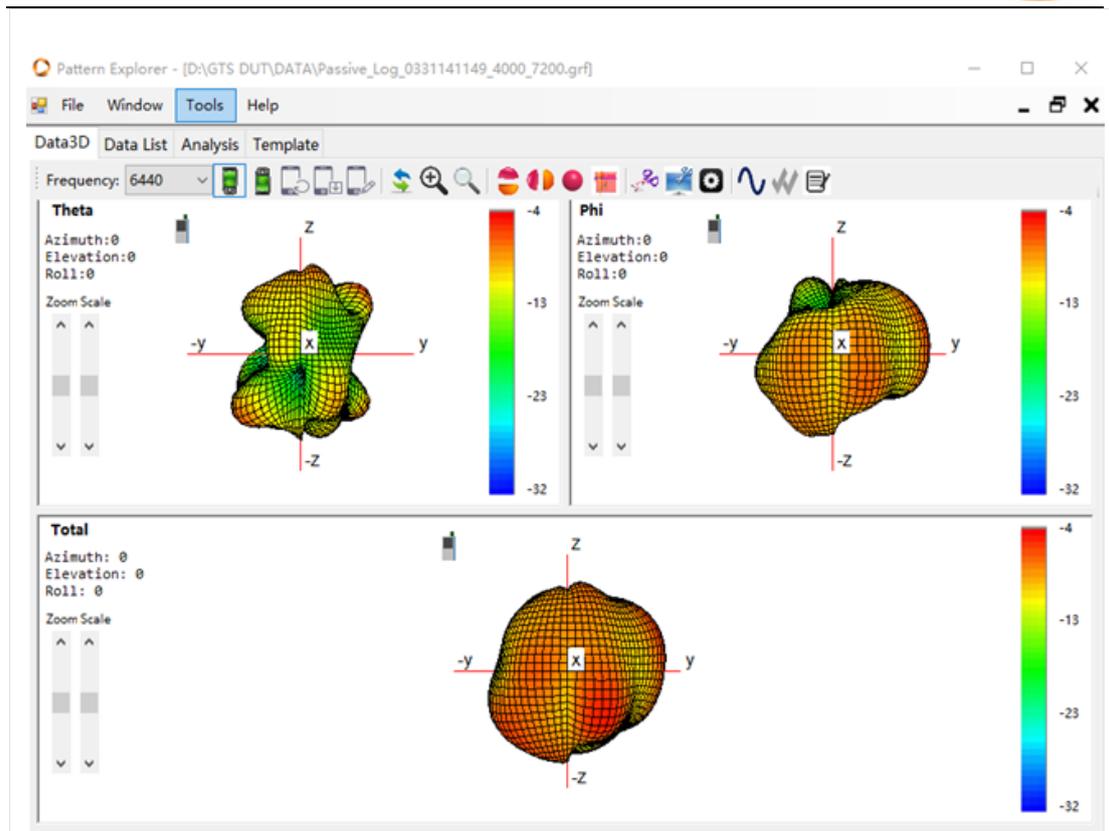
5280MHz





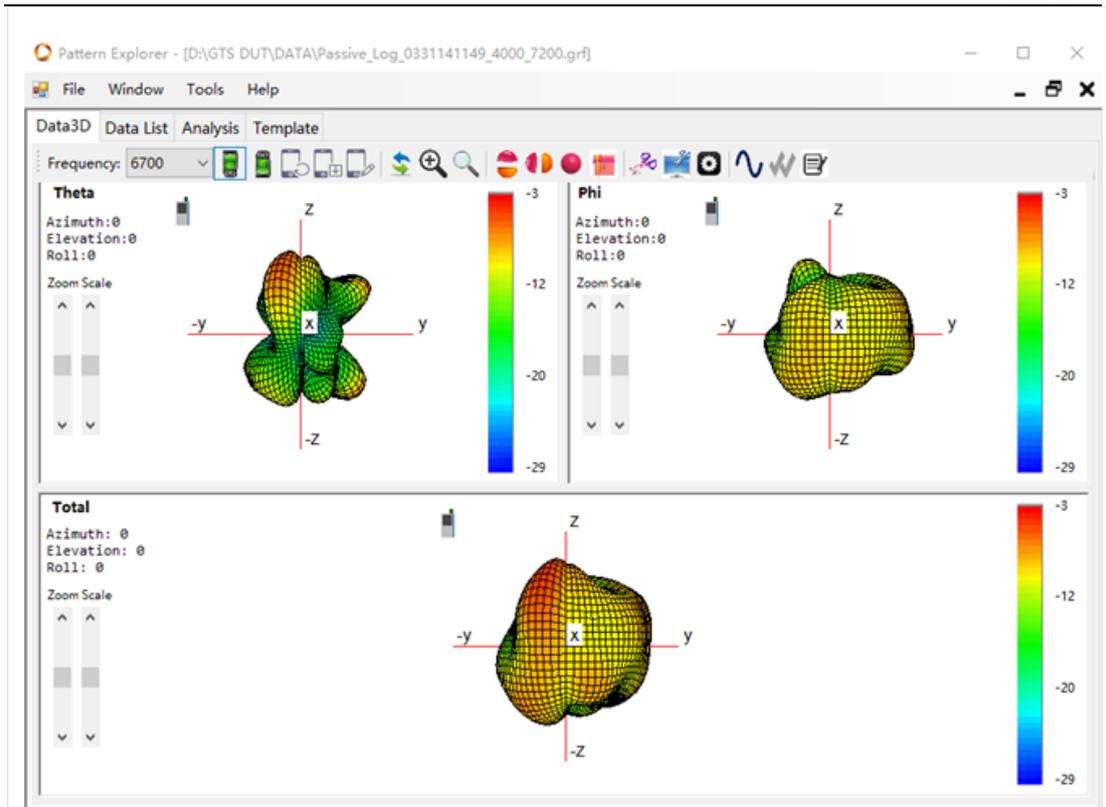






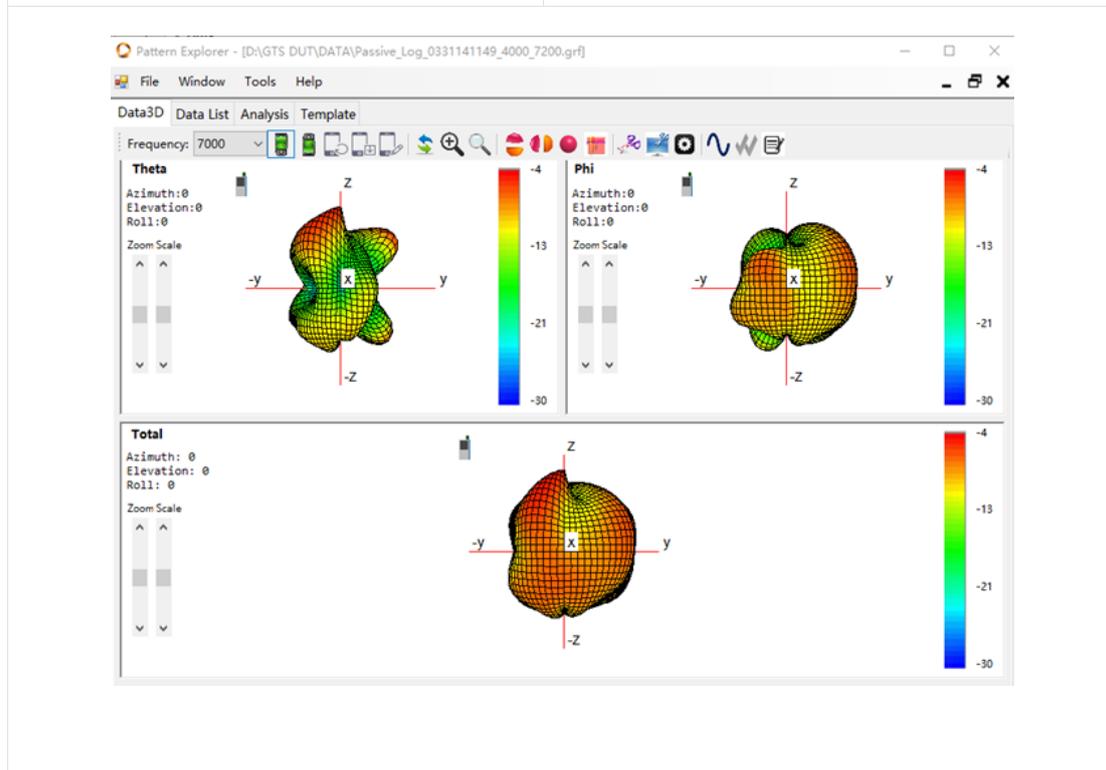
Frequency

6700MHz



Frequency

7000MHz





3. Main Test Instruments

Name	Manufacturer	Model name	Serial Number	Cal., Date	Exp., Date
E5071C	KEYSIGHT	E5071C	EQ80224	2025-5-6	2026-5-6
OTA TEST SYSTEM	GENERAL TEST	RayZone 2800	T1012048 0B5054	2025-4-6	2526-4-6

4. Test Site

Shenzhen



5. The name of the test software

GTS MaxSign- RayZone2800D_Z



6. Signed by the test engineer

Du Zhimin

End of Test Report