



Antenna Performance Description

Applicant: Xiaomi Communications Co., Ltd

Product description: Mobile Phone

Model Name: 2511FPC34G

FCC ID: 2AFZZFPC34G

Test date: 2025/09/16



1. Antenna information

Antenna	Model	Pattern	Antenna Type	Manufacturer	Manufacturer Address	Test party of Antenna gain
ANT8	P10	Metal Frame	PIFA Antenna	HuiZhou BYD Electronics Co., Ltd &AAC Technologies (Shenzhen) Co., Ltd.	BYD Phase III Industrial Park, Xiangshui River, Daya Bay, Huizhou City, Guangdong Province & Block A Nanjing University Research Center Shenzhen Branch, No.6 YueXing 3rd Road. South Hi-Tech Industrial Park, Nanshan District, Shenzhen City, Guangdong Province	Shenzhen Xiaomi Communications Co., Ltd.
ANT10	P10	Metal Frame	PIFA Antenna	HuiZhou BYD Electronics Co., Ltd &AAC Technologies (Shenzhen) Co., Ltd.	BYD Phase III Industrial Park, Xiangshui River, Daya Bay, Huizhou City, Guangdong Province & Block A Nanjing University Research Center Shenzhen Branch, No.6 YueXing 3rd Road. South Hi-Tech Industrial Park, Nanshan District, Shenzhen City, Guangdong Province	Shenzhen Xiaomi Communications Co., Ltd.
ANT12	P10	Metal Frame	PIFA Antenna	HuiZhou BYD Electronics Co., Ltd &AAC Technologies (Shenzhen) Co., Ltd.	BYD Phase III Industrial Park, Xiangshui River, Daya Bay, Huizhou City, Guangdong Province & Block A Nanjing University Research Center Shenzhen Branch, No.6 YueXing 3rd Road. South Hi-Tech Industrial Park, Nanshan District, Shenzhen City, Guangdong Province	Shenzhen Xiaomi Communications Co., Ltd.



ANT13	P10	Metal Frame	PIFA Antenna	HuiZhou BYD Electronics Co., Ltd &AAC Technologies (Shenzhen) Co., Ltd.	BYD Phase III Industrial Park, Xiangshui River, Daya Bay, Huizhou City, Guangdong Province & Block A Nanjing University Research Center Shenzhen Branch, No.6 YueXing 3rd Road. South Hi-Tech Industrial Park, Nanshan District, Shenzhen City, Guangdong Province	Shenzhen Xiaomi Communications Co., Ltd.
NFC	P10	FPC	FPC	Kunshan Innowave Communication Technology Co., Ltd.&Shenzhen Deman Electronics Technology Co.,LTD	Building H, Jindi Zhizaoyuan, Shengchuang Road, Yushan Town, Kunshan City, Suzhou City, Jiangsu Province&Building D, Sunlord Electronics, No. 1 Fengtai Road, Tangxia Town, Dongguan City, Guangdong Province	Shenzhen Xiaomi Communications Co., Ltd.

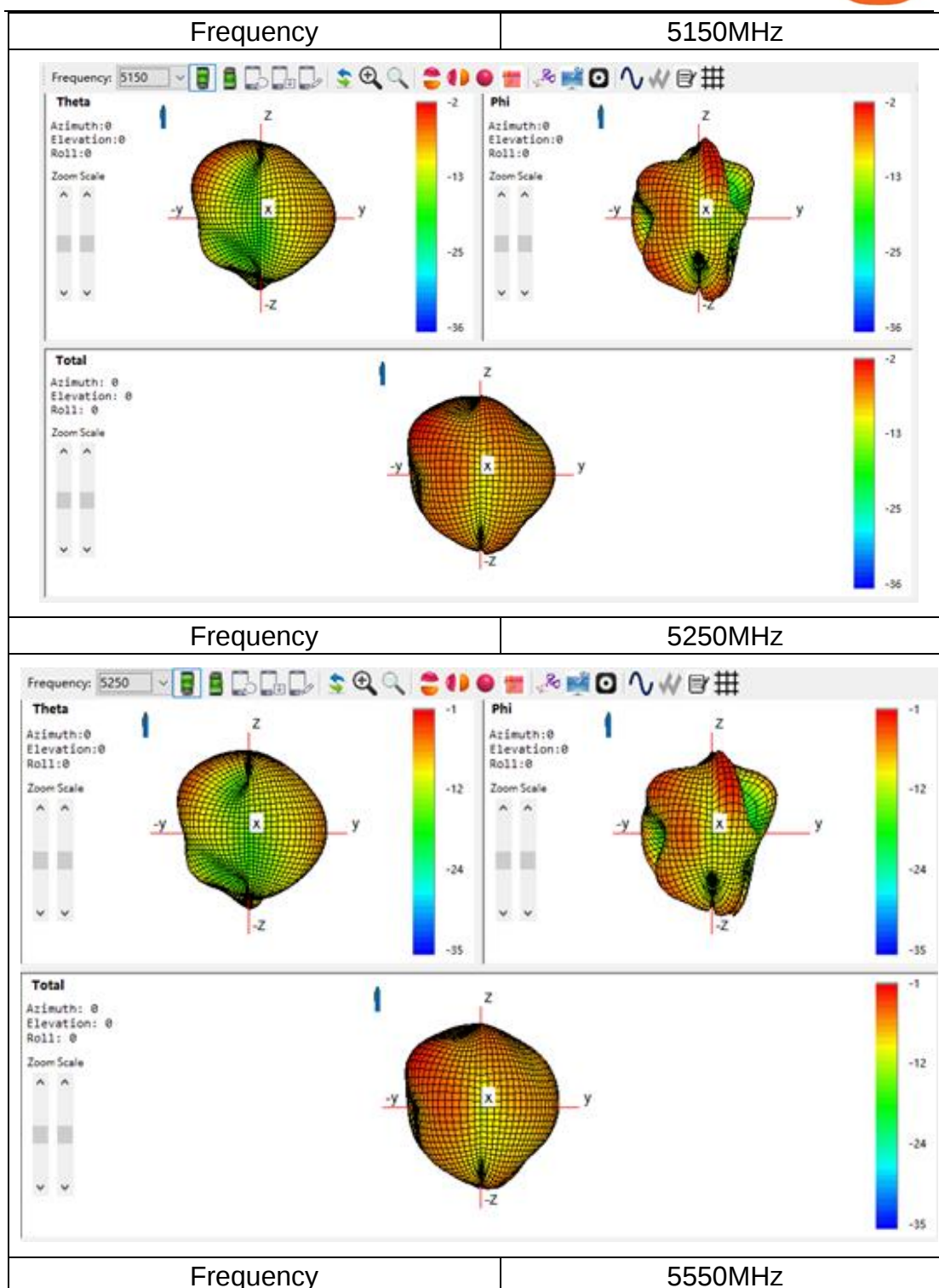


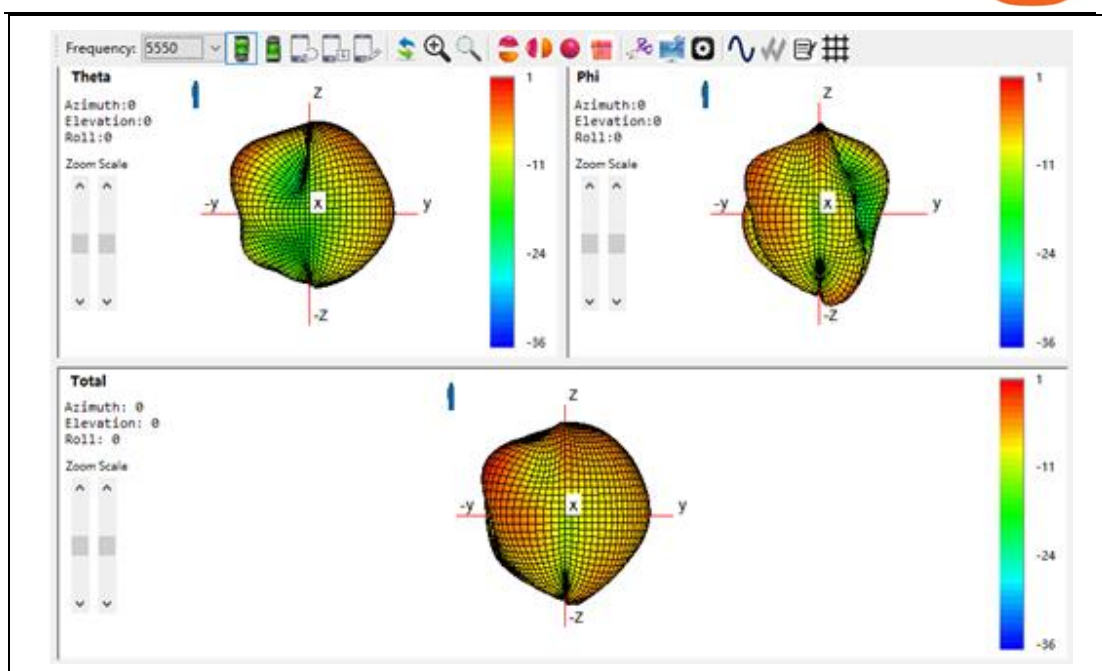
2. Test data

Band for Antenna 8	WIFI 5G ant	
	Avg.Effi.(dBi)	Peak gain(dBi)
5G (5.15-5.25GHz)	-6.07	-5.2
5G (5.25-5.35GHz)	-5.31	-4.4
5G (5.47-5.725GHz)	-4.15	-4.1
5G (5.725-5.85GHz)	-5.41	-2.9

S11

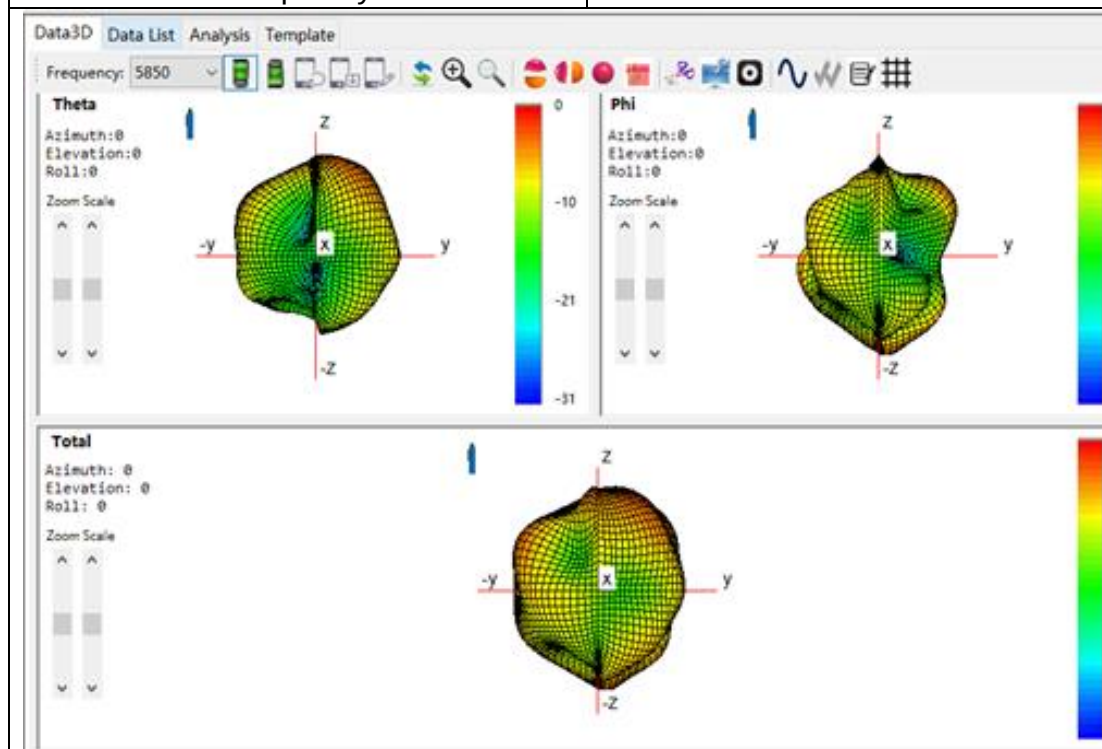






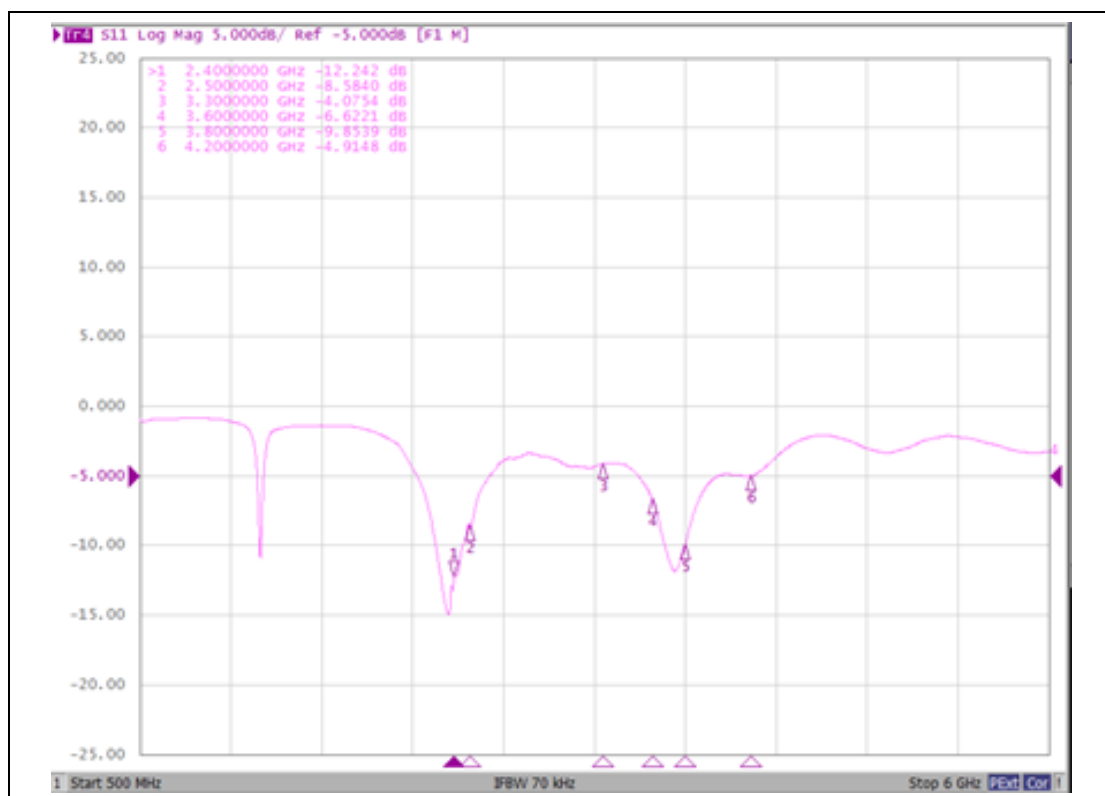
Frequency

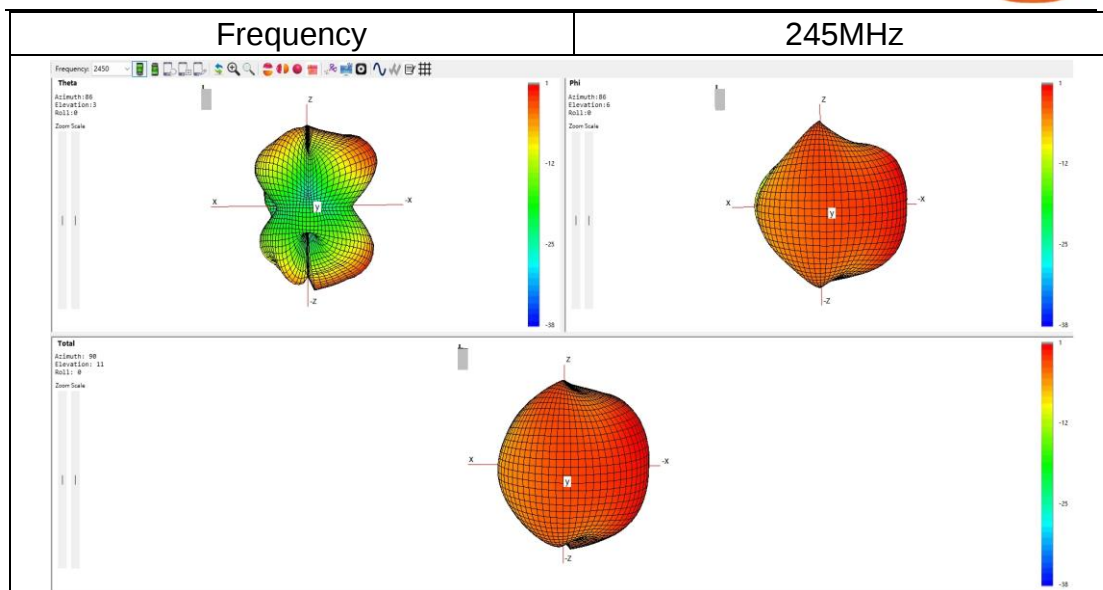
5850MHz





Band for Antenna 10	WIFI 2.4G ant	
	Avg.Effi.(dBi)	Peak gain(dBi)
2.4G	-4.2	-3

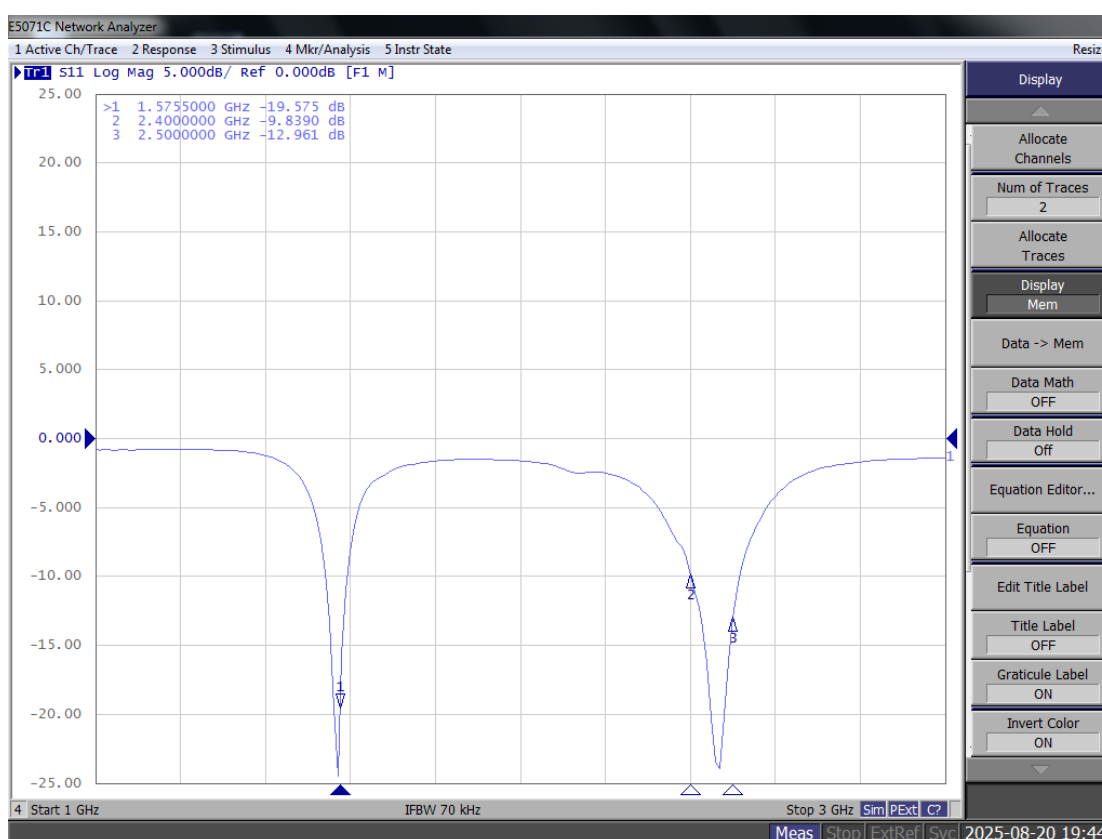


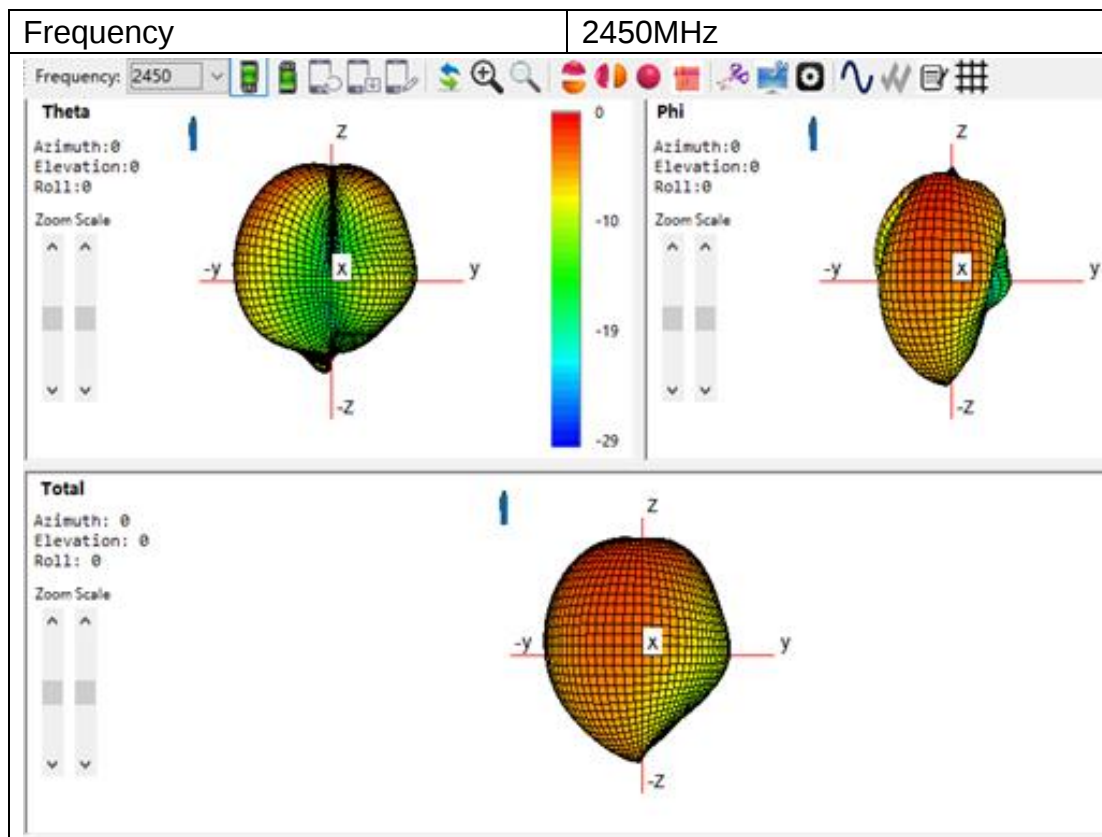




Band for Antenna 12	WIFI 2.4G ant	
	Avg.Effi.(dBi)	Peak gain(dBi)
2.4G	-4.74	-2.7
Bluetooth	-4.74	-1.7

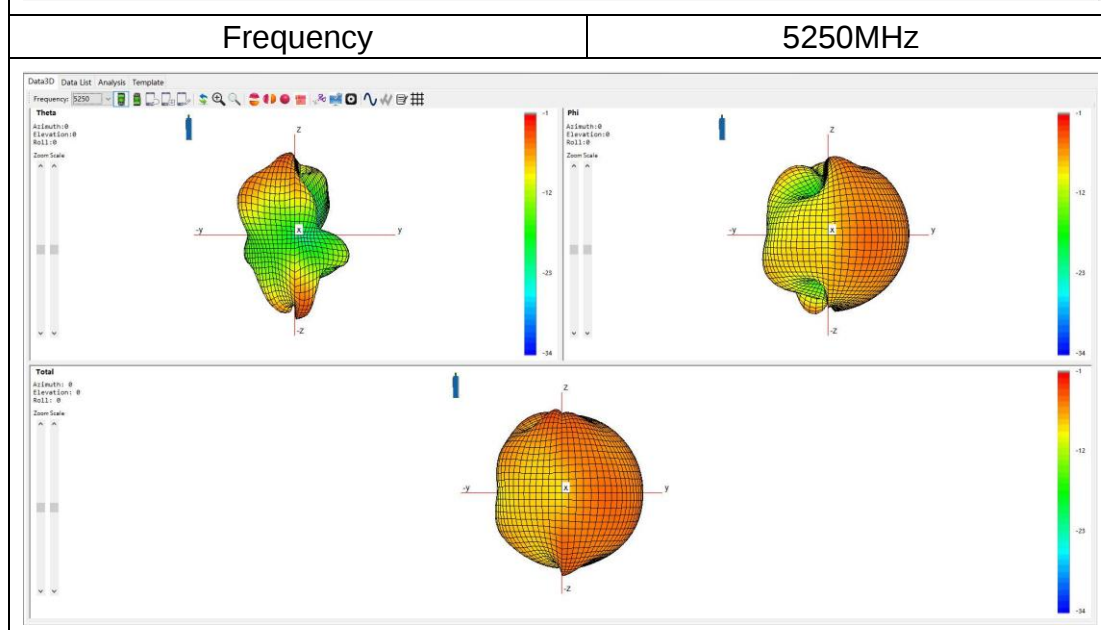
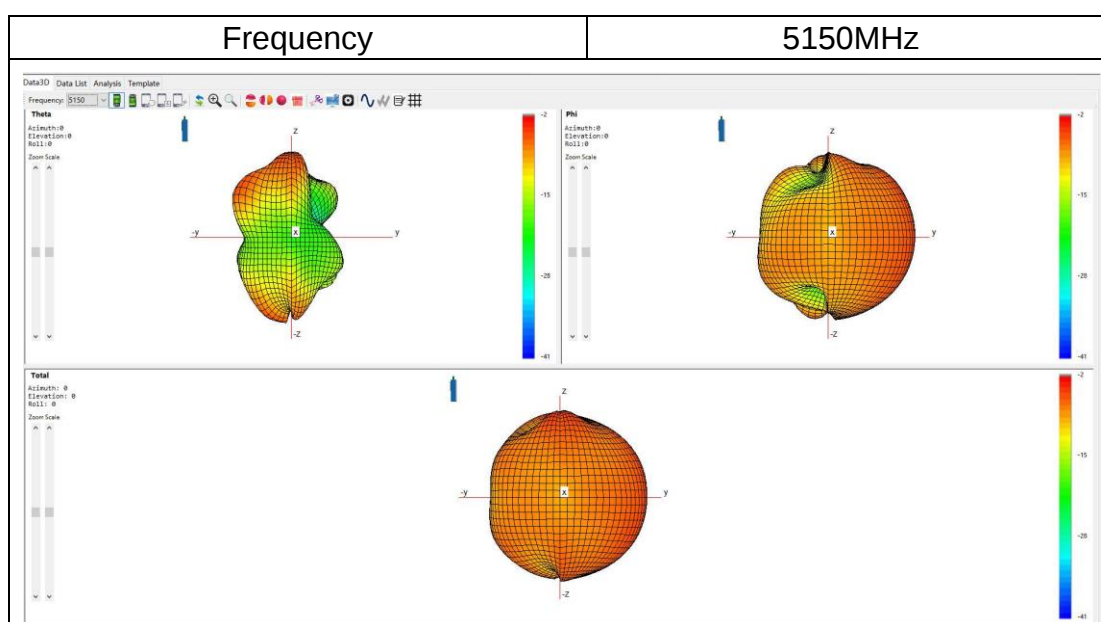
S11

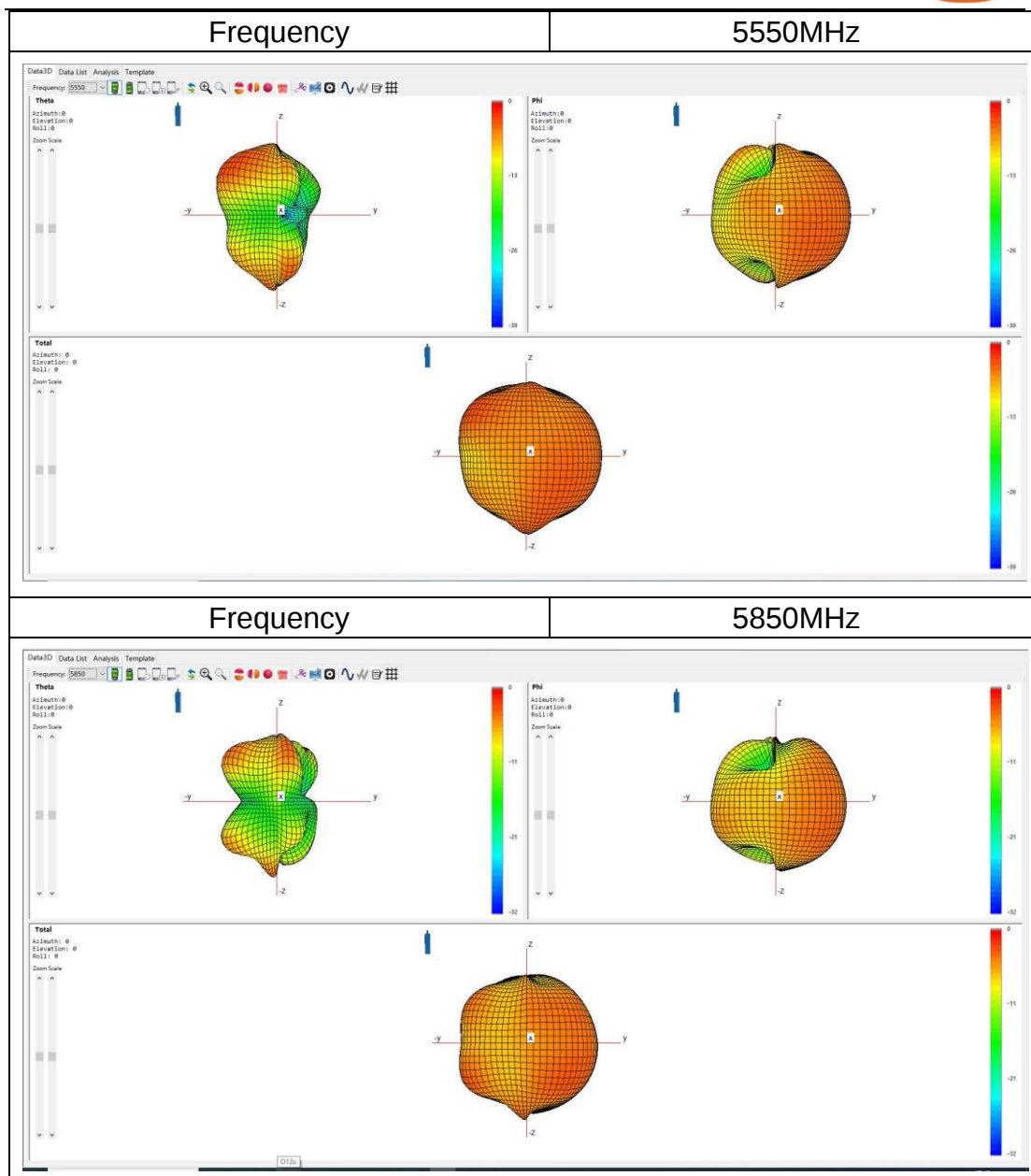






Band for Antenna 13	WIFI 5G ant	
	Avg.Effi.(dBi)	Peak gain(dBi)
5G (5.15-5.25GHz)	-6.2	-6.5
5G (5.25-5.35GHz)	-5.8	-4.5
5G (5.47-5.725GHz)	-5.4	-4.5
5G (5.725-5.85GHz)	-5.2	-3.7





3. Main Test Instruments

Name	Manufacturer	Model name	Software name	Serial Number	Cal., Date	Exp., Date
E5071C	KEYSIGHT	E5071C	GTS Max sign	EQ80224	2025.06.10	2025.12.10
8000A	Anritsu	8000A	GTS Max sign	EQ80224	2025.06.10	2025.12.10

4. Test Site

Shenzhen



--- End ---