



Antenna Performance Description

Applicant: Xiaomi Communications Co., Ltd

Product description: Mobile Phone

Model Name: 25102PCBEG

FCC ID: 2AFZZPCBEG

Test date: 2025/07/24

Test engineer:



1. Antenna information

Antenna	Pattern	Antenna Type	Manufacturer	Test party of Antenna gain
ANT7	Metal Frame	PIFA Antenna	HuiZhou BYD Electronics Co., Ltd &Biel Technology Manufactory(Huizhou)limited	Shenzhen Xiaomi Communications Co., Ltd.
ANT8	Metal Frame	PIFA Antenna	HuiZhou BYD Electronics Co., Ltd &Biel Technology Manufactory(Huizhou)limited	Shenzhen Xiaomi Communications Co., Ltd.
ANT10	Metal Frame	PIFA Antenna	HuiZhou BYD Electronics Co., Ltd &Biel Technology Manufactory(Huizhou)limited	Shenzhen Xiaomi Communications Co., Ltd.
ANT12	Metal Frame	PIFA Antenna	HuiZhou BYD Electronics Co., Ltd &Biel Technology Manufactory(Huizhou)limited	Shenzhen Xiaomi Communications Co., Ltd.
NFC	FPC	FPC	Luxshare Precision Industry Co., Ltd.	Shenzhen Xiaomi Communications Co., Ltd.

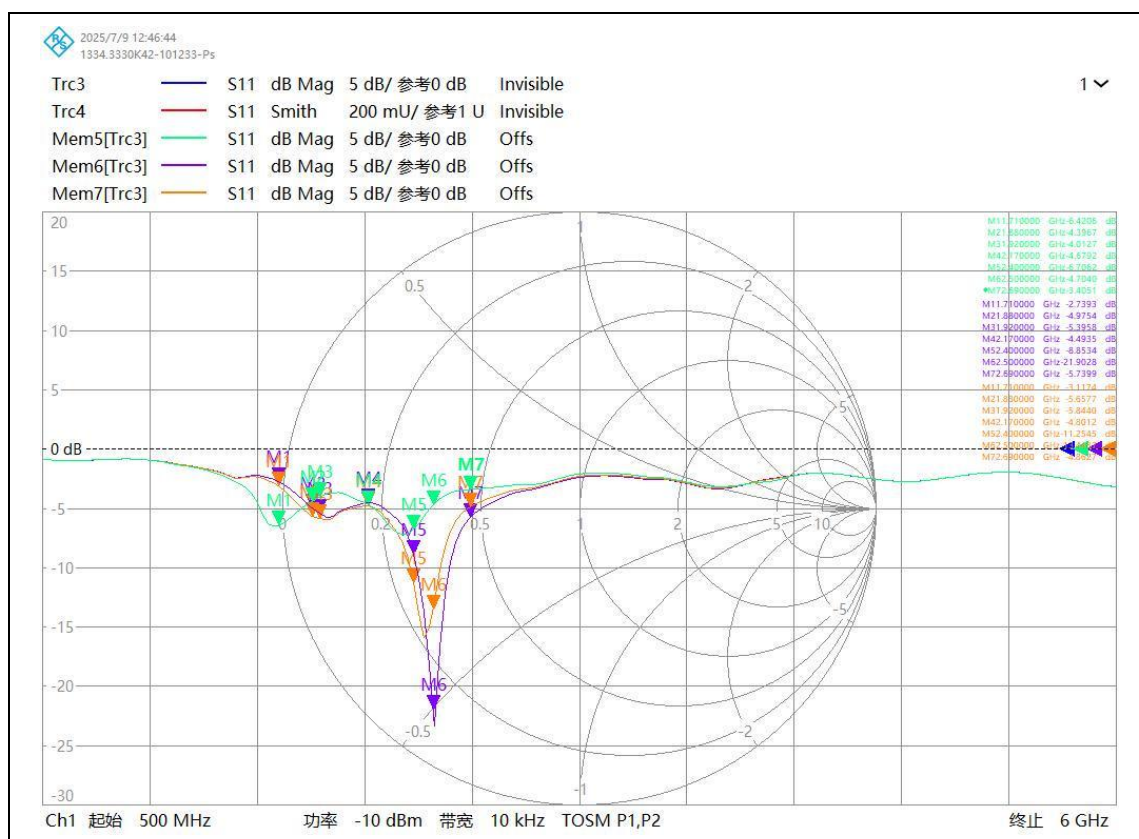


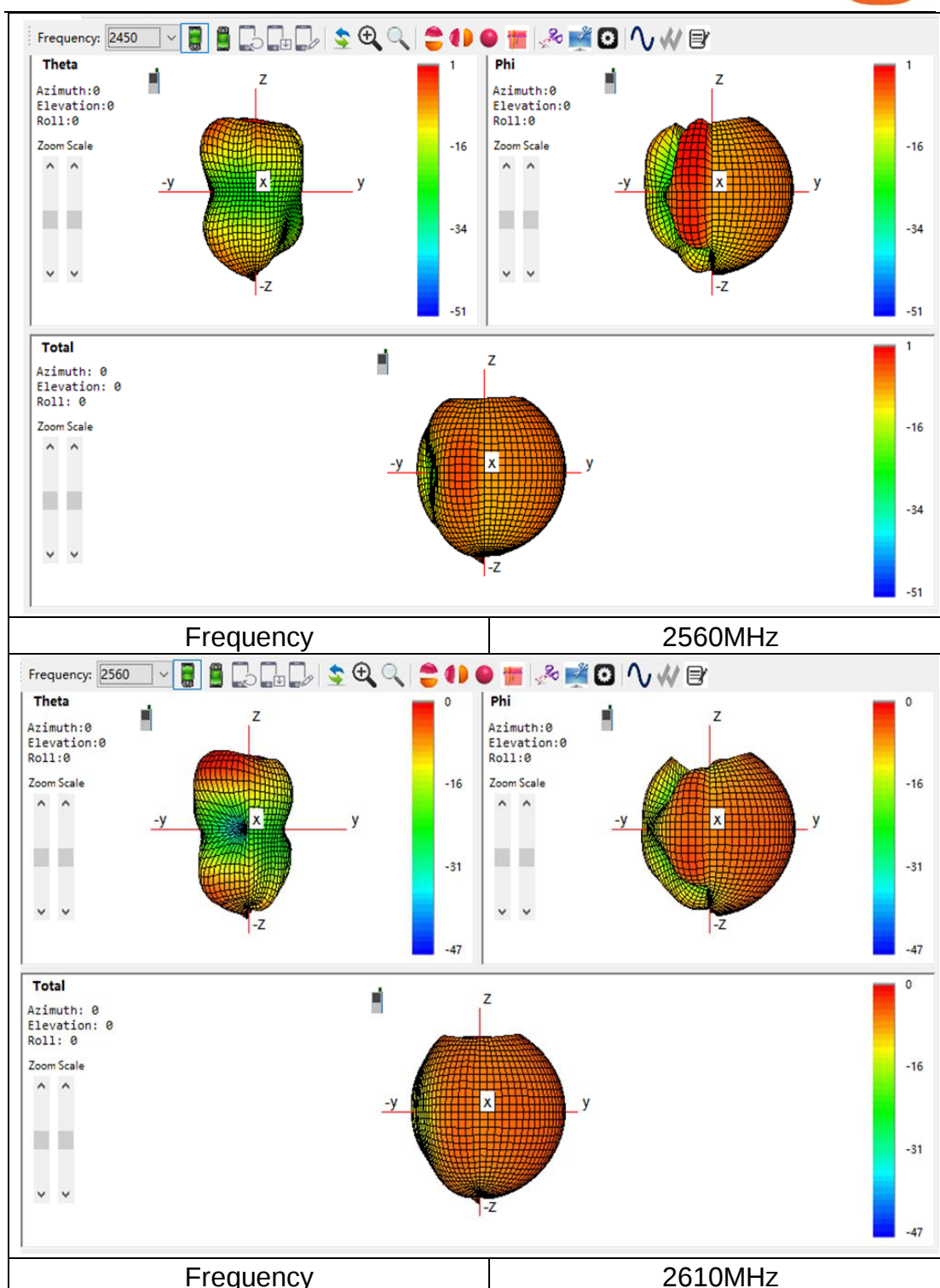
WPT (external diameter: 48mm Inner diameter:22mm)	FPC	FPC	Luxshare Precision Industry Co., Ltd.	Shenzhen Xiaomi Communications Co., Ltd.
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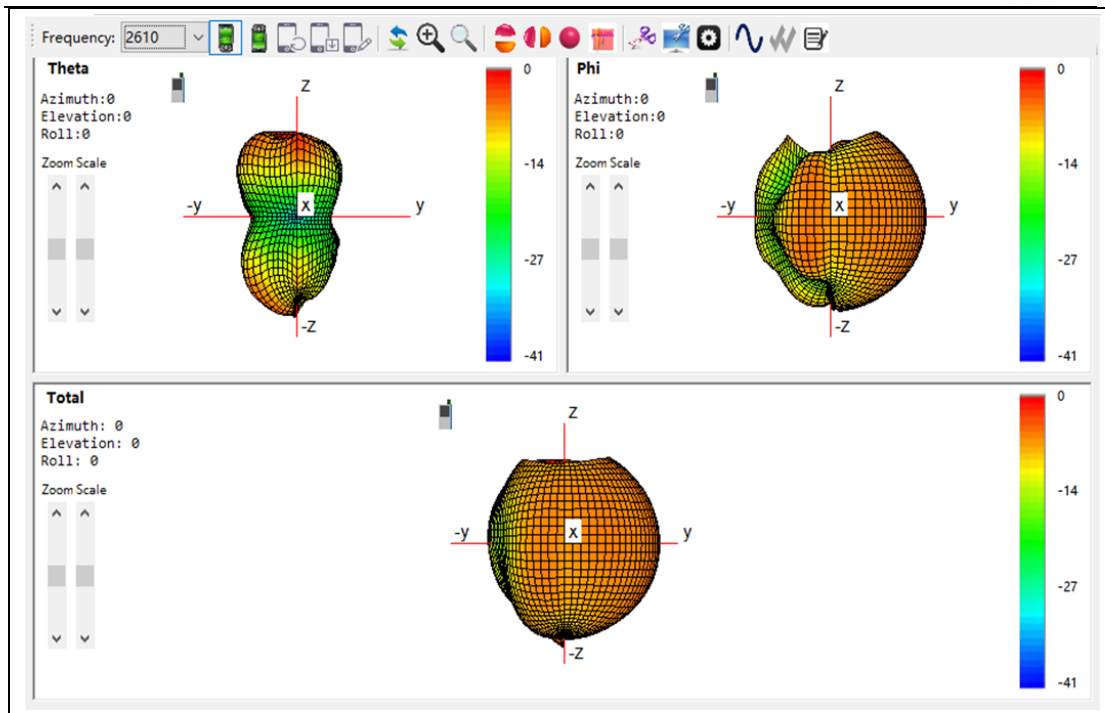


2. Test data

Band for Antenna 7	MHB+WiFi 2.4G ant	
	Avg.Effi.(dBi)	Peak gain(dBi)
Bluetooth	-4.3	-1.5

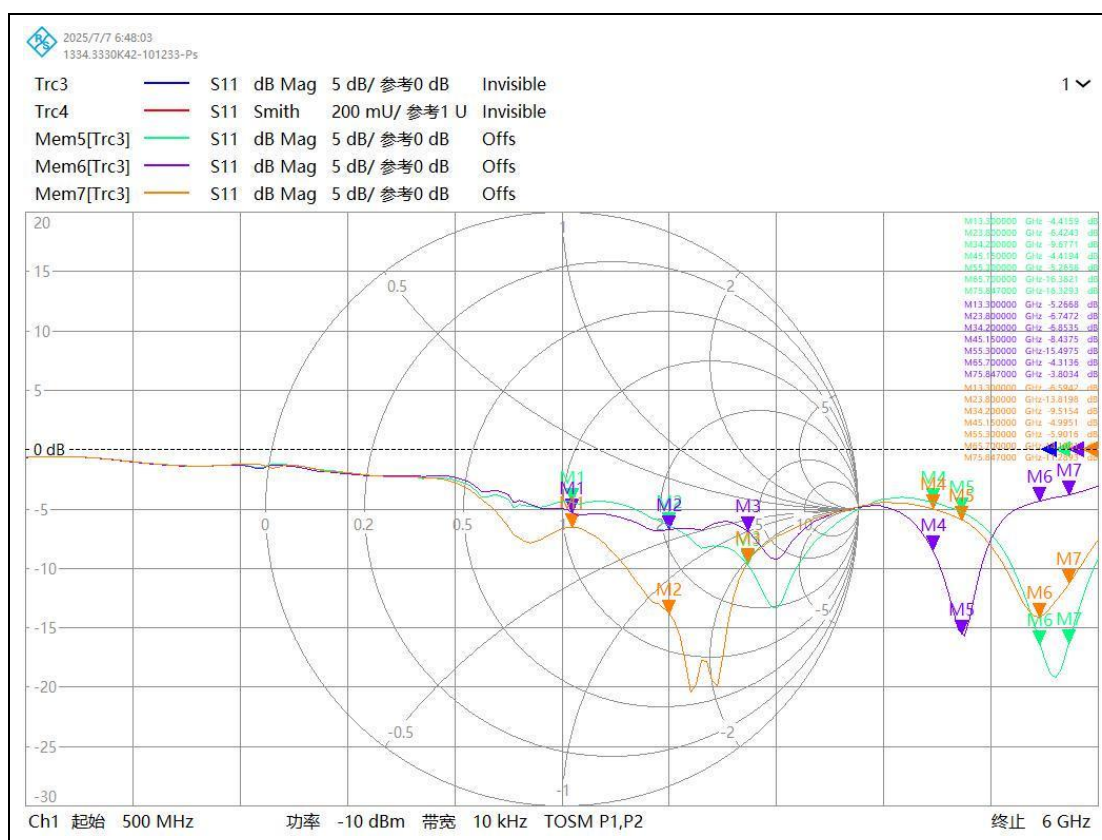


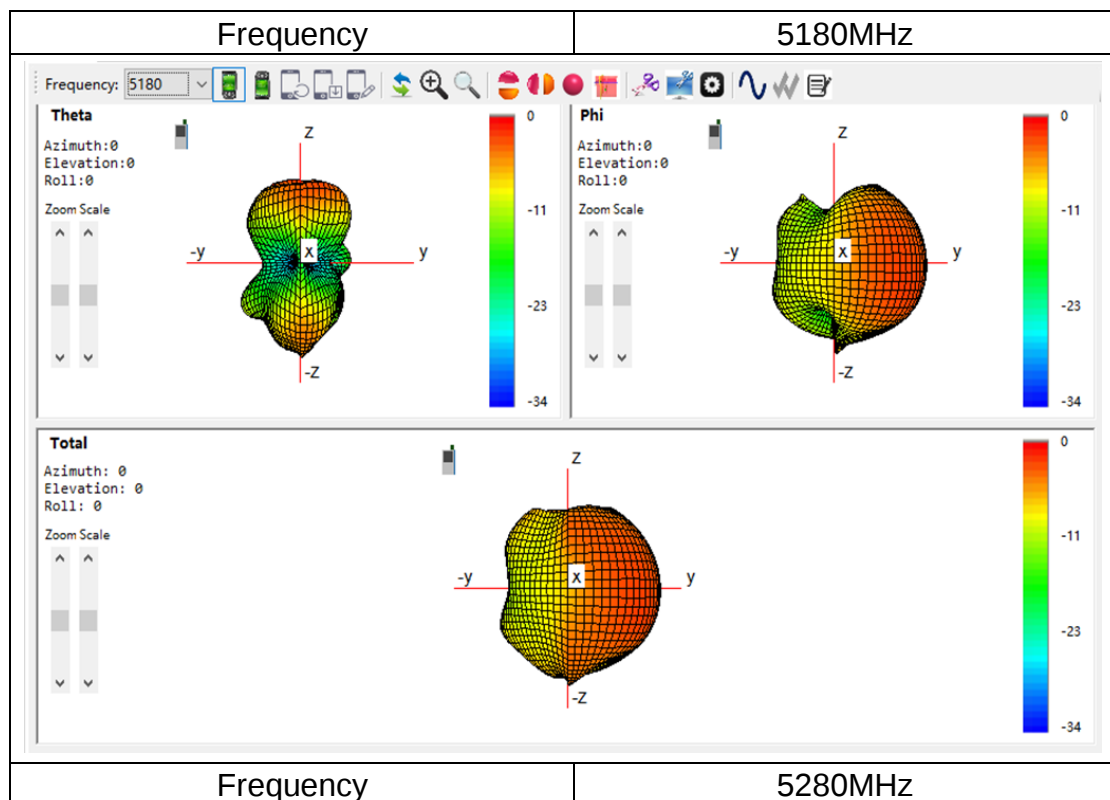


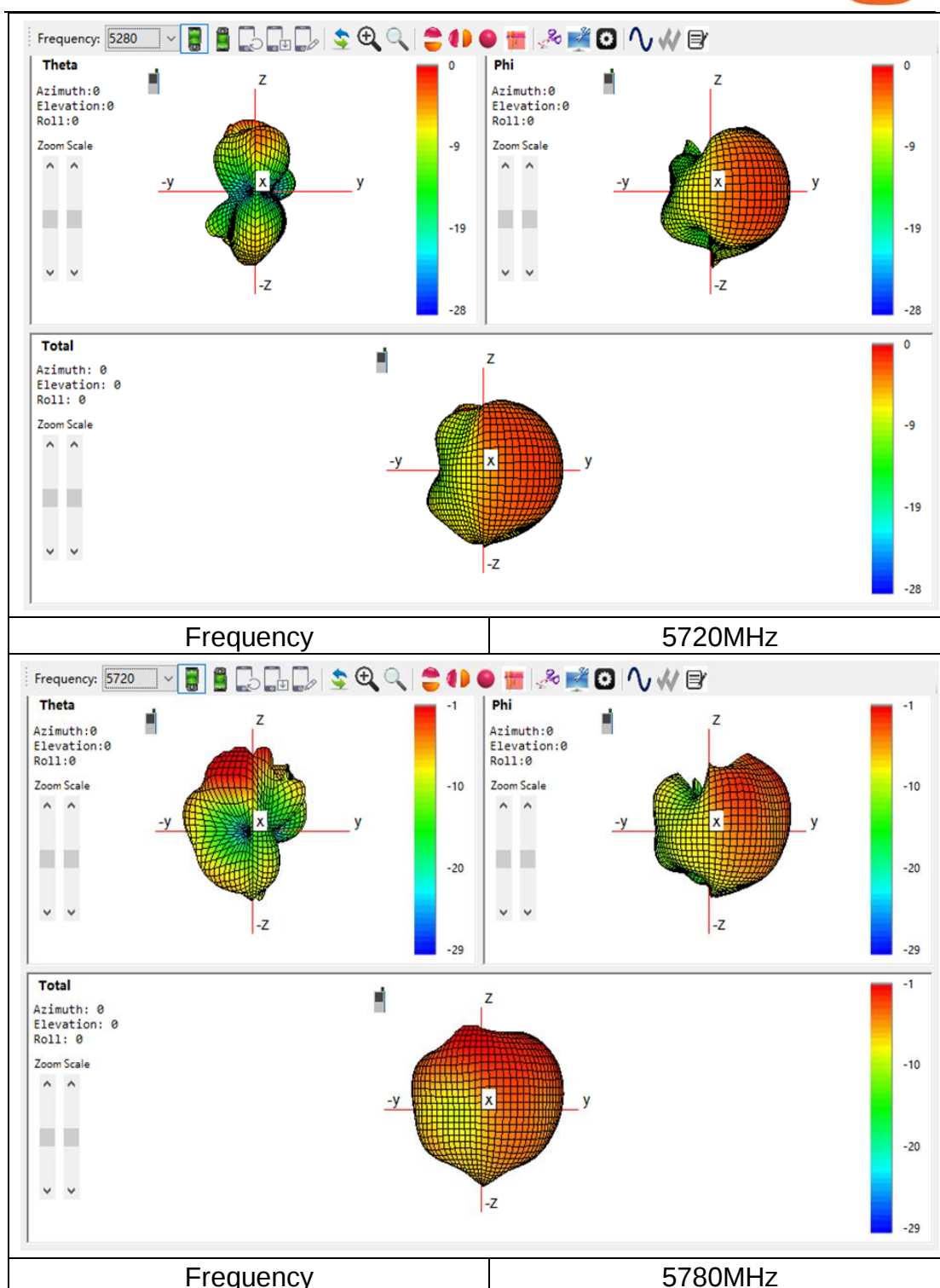


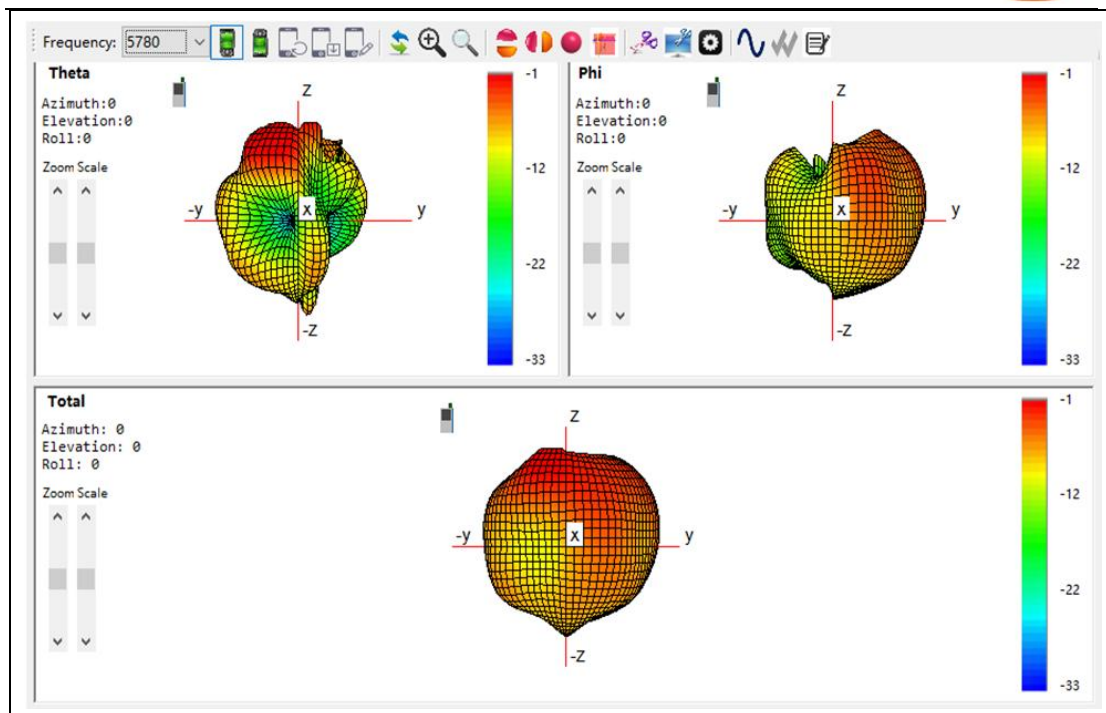


Band for Antenna 8	NR+WiFi 5G ant	
	Avg.Effi.(dBi)	Peak gain(dBi)
5G (5.15-5.25GHz)	-5.1	-1.4
5G (5.25-5.35GHz)	-5.1	-1.4
5G (5.47-5.725GHz)	-5.2	-1.3
5G (5.725-5.85GHz)	-5.6	-1.3



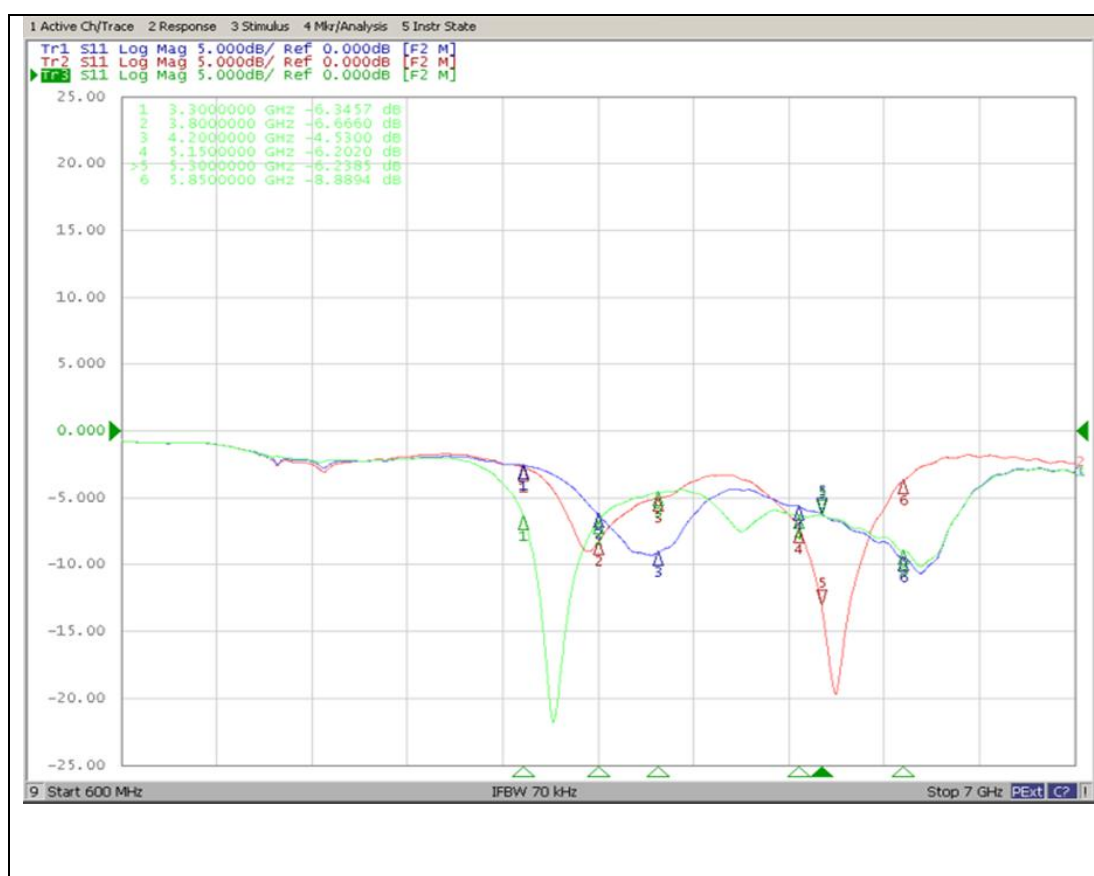


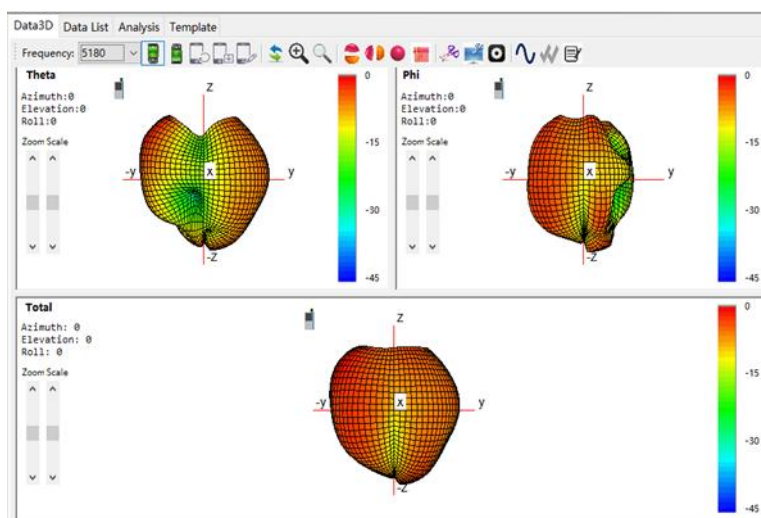






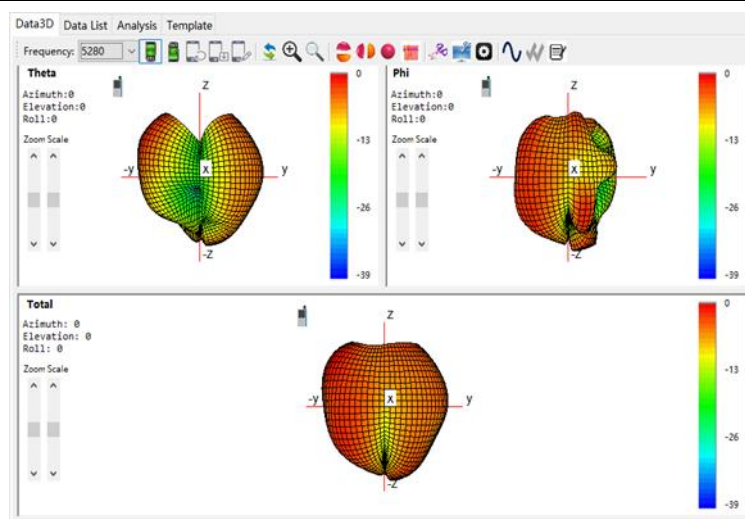
Band for Antenna 10	WIFI 5G ant	
	Avg.Effi.(dBi)	Peak gain(dBi)
5G (5.15-5.25GHz)	-4.7	-1.2
5G (5.25-5.35GHz)	-4.0	-1.2
5G (5.47-5.725GHz)	-4.7	-1.8
5G (5.725-5.85GHz)	-5	-1.8





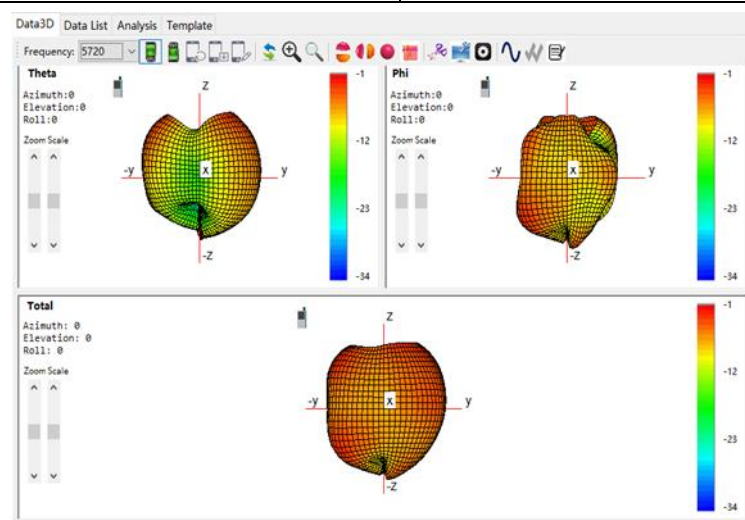
Frequency

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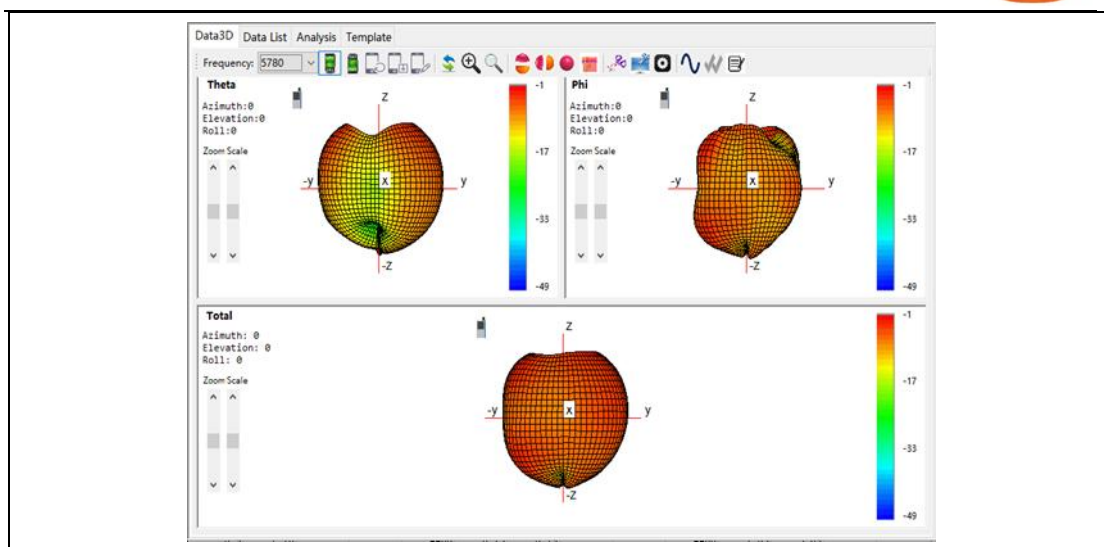
Frequency

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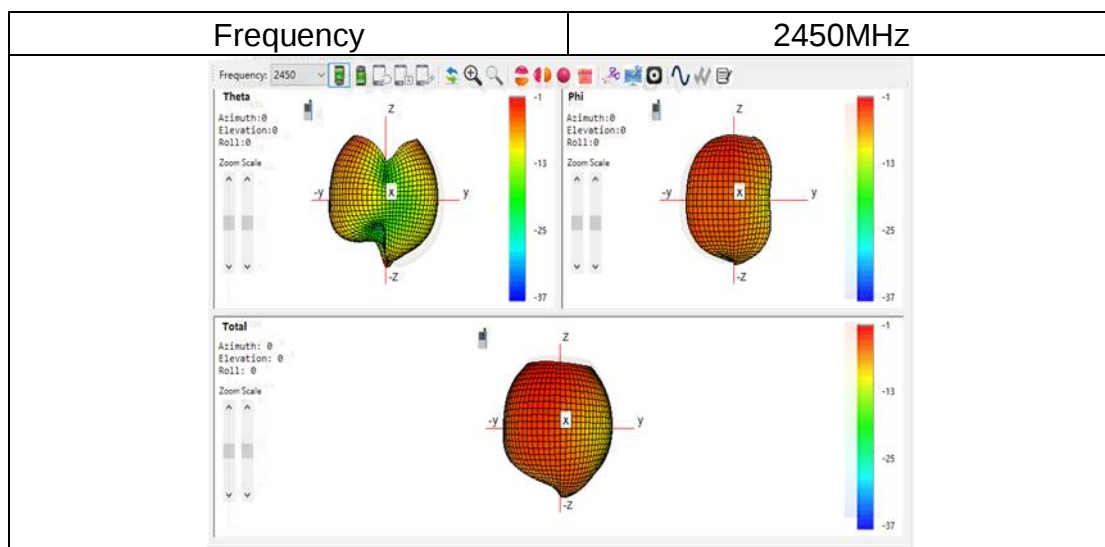
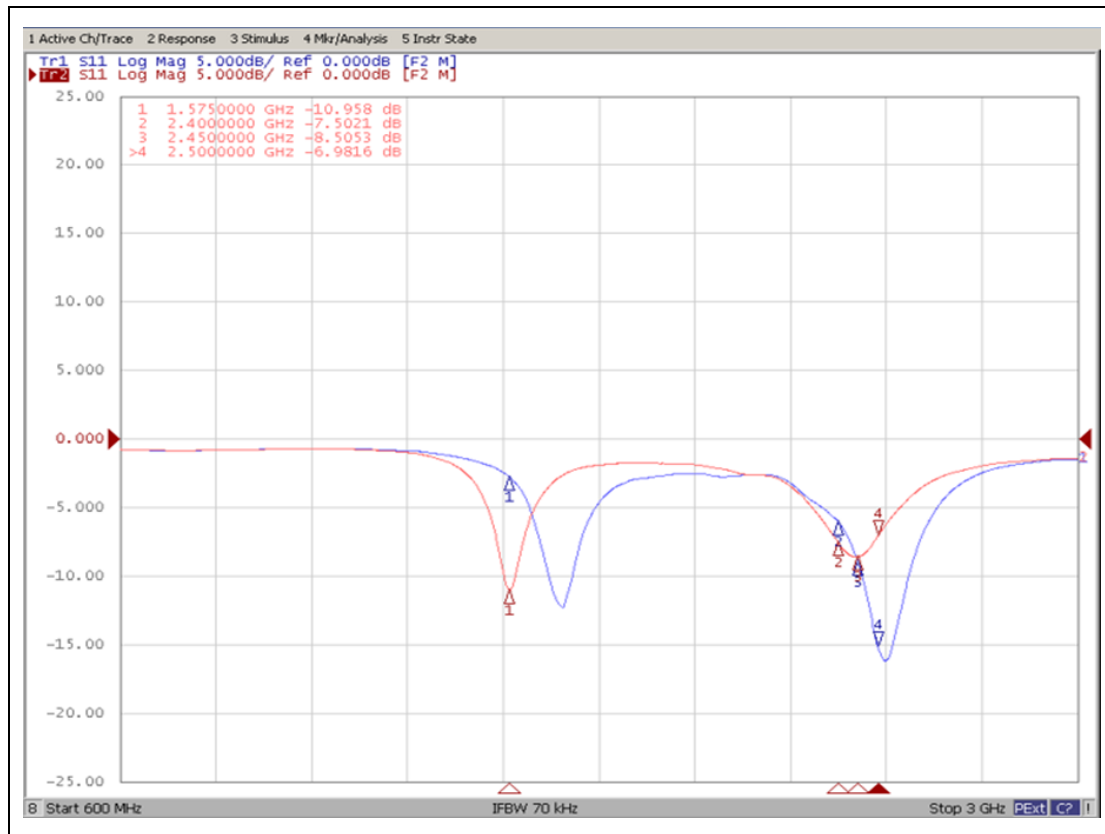
Frequency

5780MHz





Band for Antenna 12	WIFI 2.4G ant	
	Avg.Effi.(dBi)	Peak gain(dBi)
2.4G	-5	-1.6
Bluetooth	-5	-1.6





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

End of Test Report