



Antenna Performance Description

Applicant: Xiaomi Communications Co., Ltd

Product description: Mobile Phone

Model Name: 24122RKC7G

FCC ID: 2AFZZRKC7G

Test date: 2024/09/07

Test Engineer: Haozhan Li



1. Antenna information

Antenna	Pattern	model name	Antenna Type	Manufacturer	Test party of Antenna gain
ANT6	Metal Frame	O11U	PIFA Antenna	AAC Technologies (Shenzhen) Co., Ltd & Shanghai Longcheer Technology Co., Ltd. &Biel Technology Manufactory(Huizhou)limited	Shenzhen Xiaomi Communications Co., Ltd.
ANT7	Metal Frame	O11U	PIFA Antenna	AAC Technologies (Shenzhen) Co., Ltd & Shanghai Longcheer Technology Co., Ltd. &Biel Technology	Shenzhen Xiaomi Communications Co., Ltd.
ANT16	Metal Frame	O11U	PIFA Antenna	AAC Technologies (Shenzhen) Co., Ltd & Shanghai Longcheer Technology Co., Ltd. &Biel Technology	Shenzhen Xiaomi Communications Co., Ltd.
ANT17	Metal Frame	O11U	PIFA Antenna	AAC Technologies (Shenzhen) Co., Ltd & Shanghai Longcheer Technology Co., Ltd. &Biel Technology	Shenzhen Xiaomi Communications Co., Ltd.

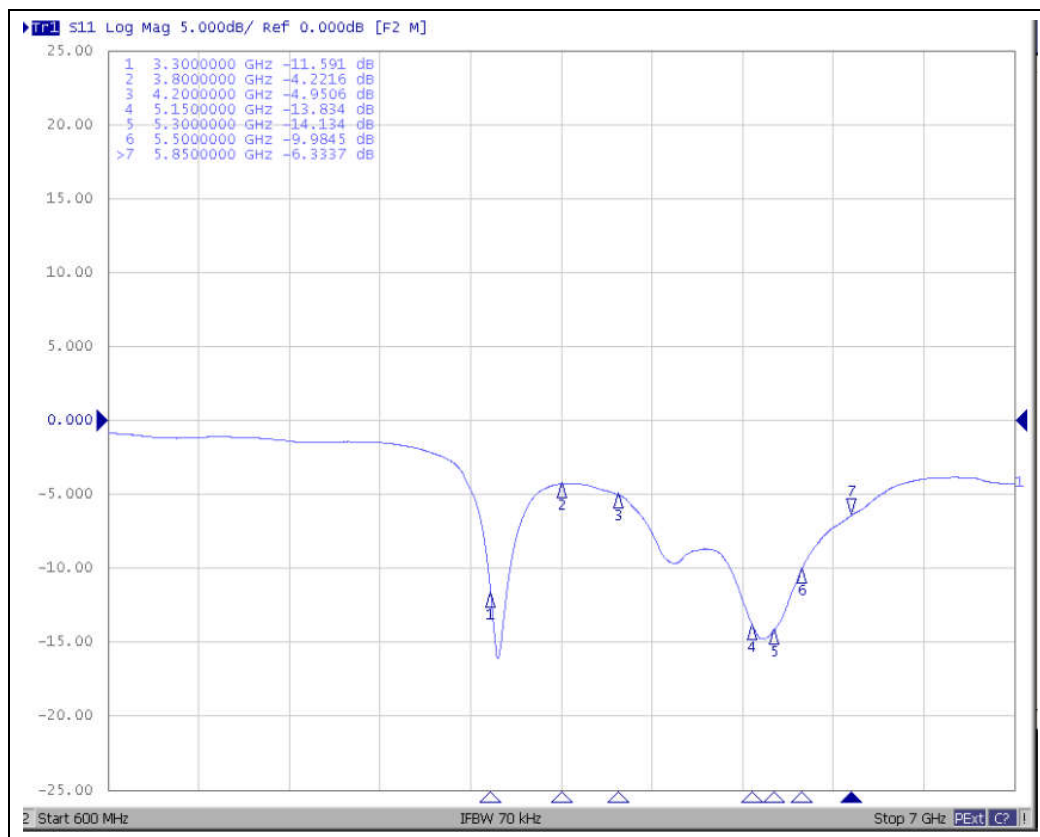


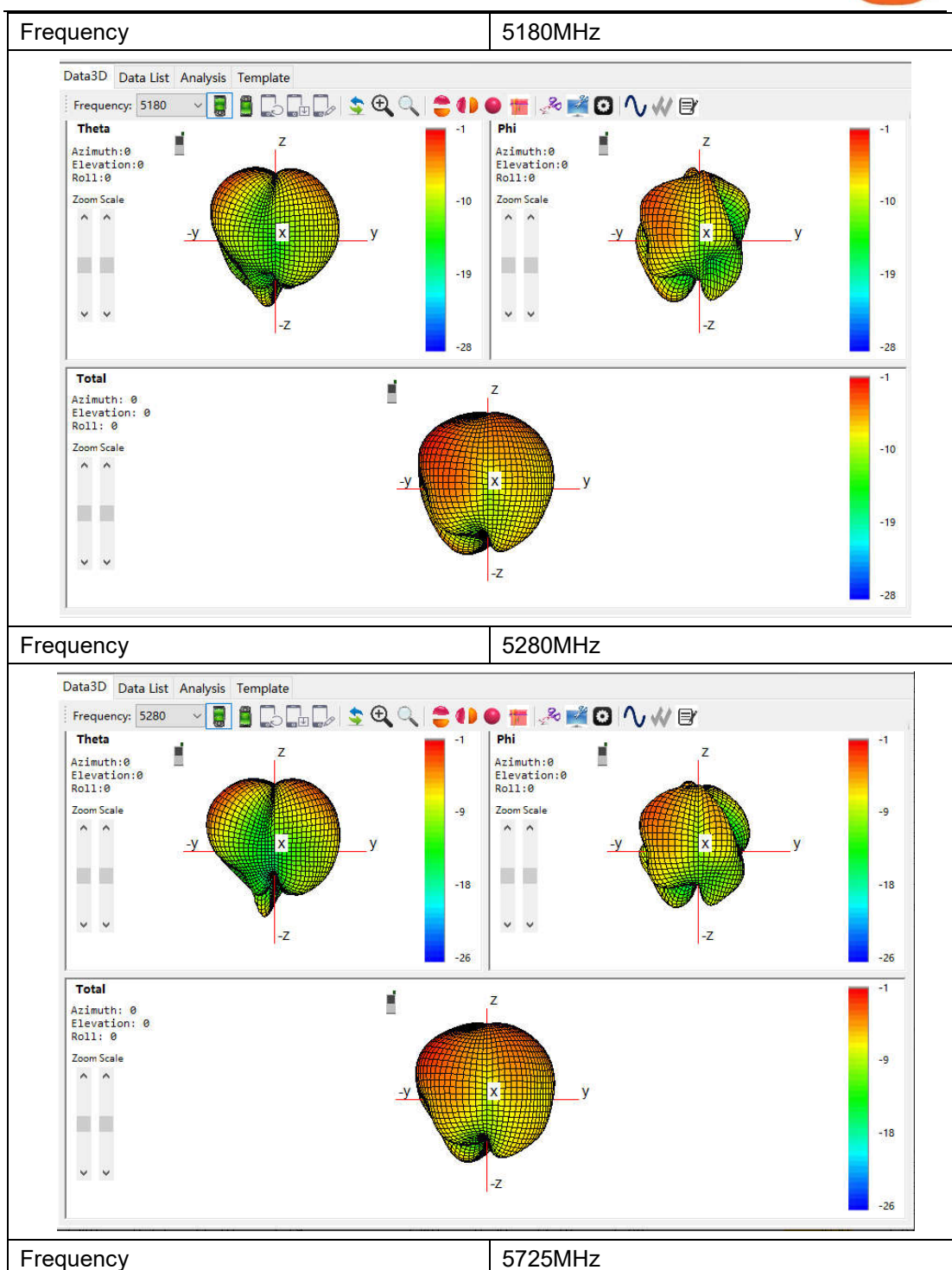
NFC	FPC	O11U	FPC Antenna	Kunshan Innowave Communication Technology Co., Ltd.	Length: 47.42x44.9mm Width: 2mm
WPT	Metal	O11U	Loop Antenna	LUXSHAREICT	inner diameter external diameter

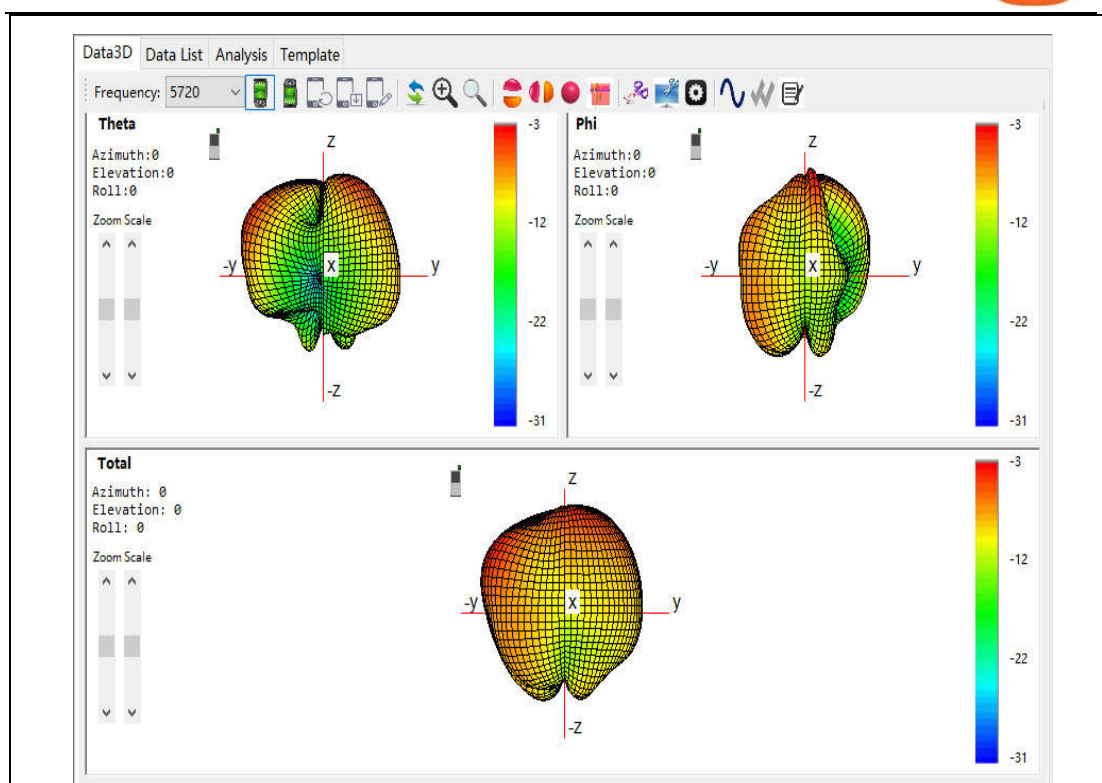


2. Test data

Bands for Antenna 6	WIFI 5G ANT			
	Avg.Effi.(dB)	EIRP	MIMO	Peak gain(dBi)
5G (5150~5250MHz)	-5.5	19.6	21.6	-2
5G (5250~5350MHz)	-5.6	19.7	21.5	-1.8
5G (5470~5725MHz)	-6.2	19.9	21.6	-1.7
5G (5470~5850MHz)	-6.3	20.1	21.7	-1.6

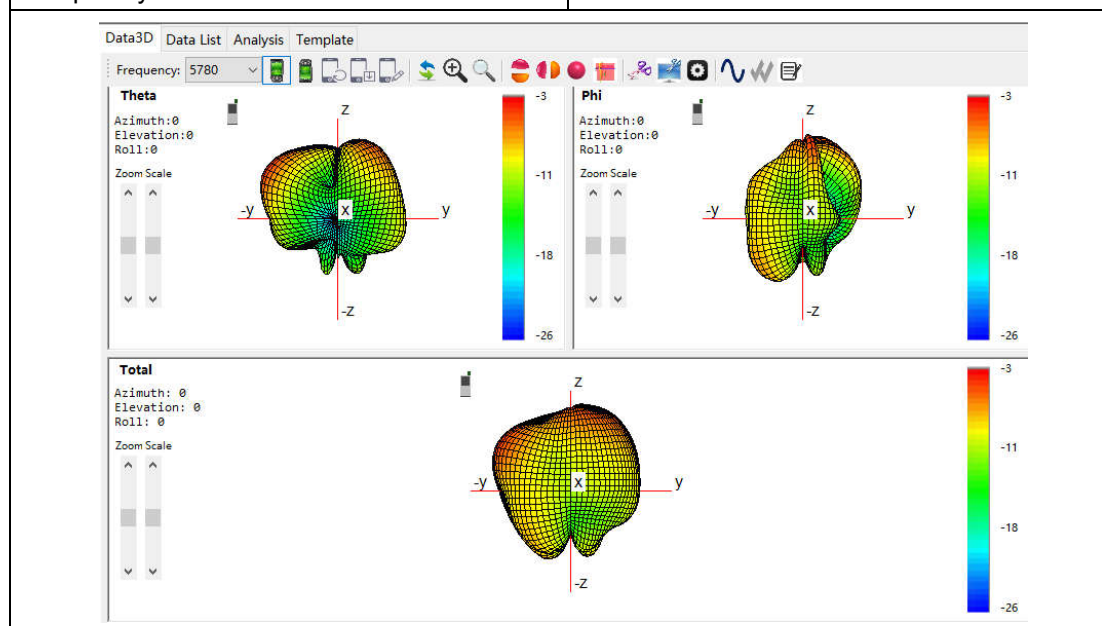






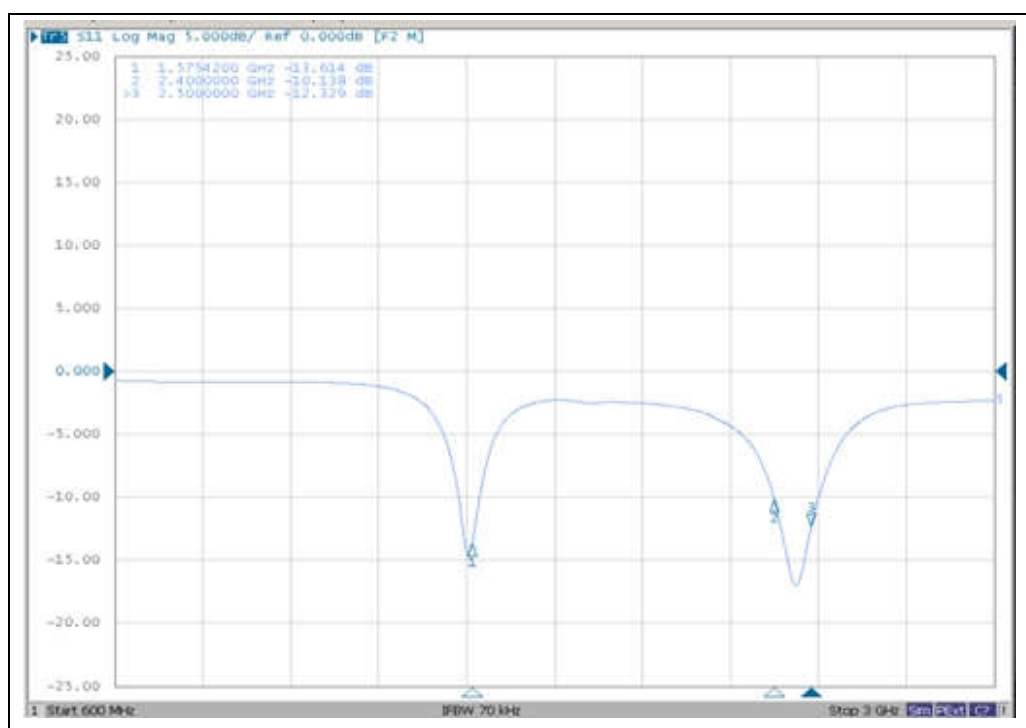
Frequency

5785MHz

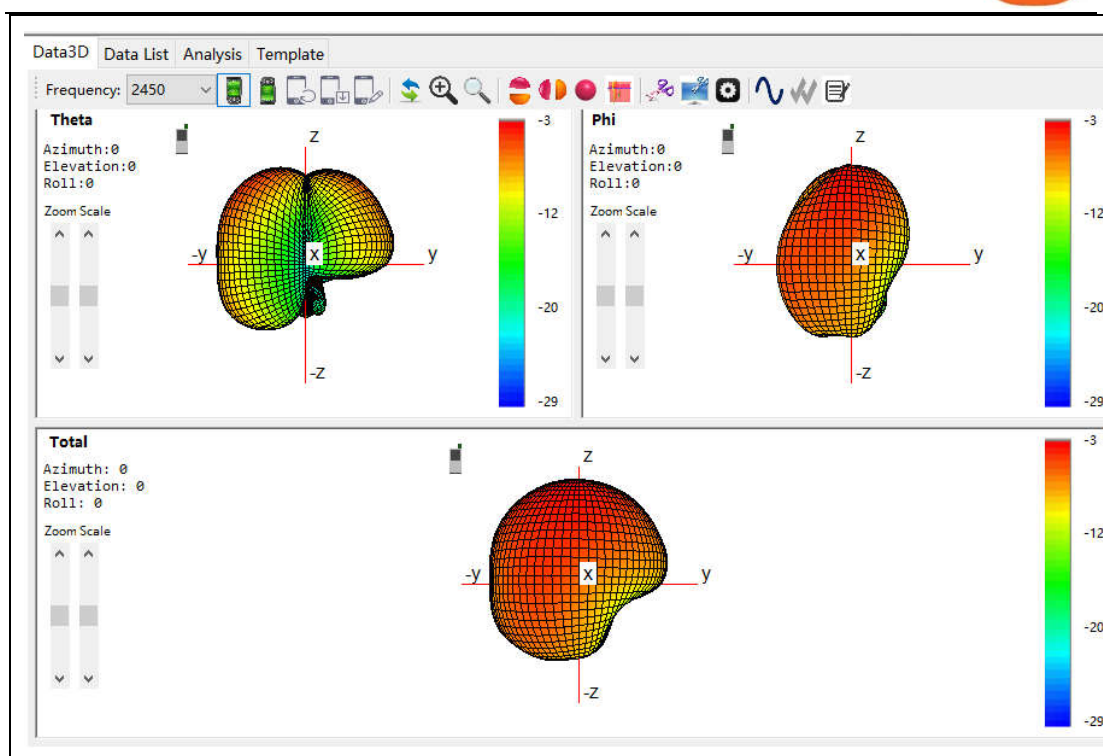




Band for Antenna 16	WIFI_2.4G ANT			
	Avg.Effi.(dB)	EIRP	合路传导功率	Peak gain(dBi)
2.4G (2400~2485MHz)	-5.6	19.2	21.8	-2.6
Bluetooth	-5.6			

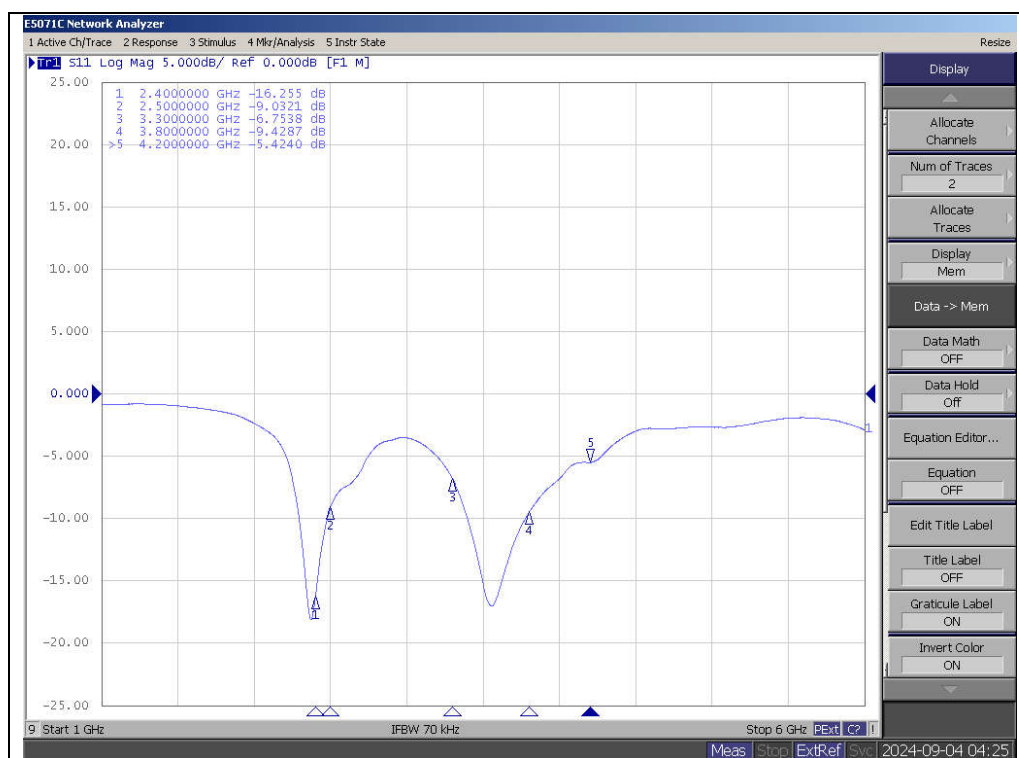


Frequency	2450MHz
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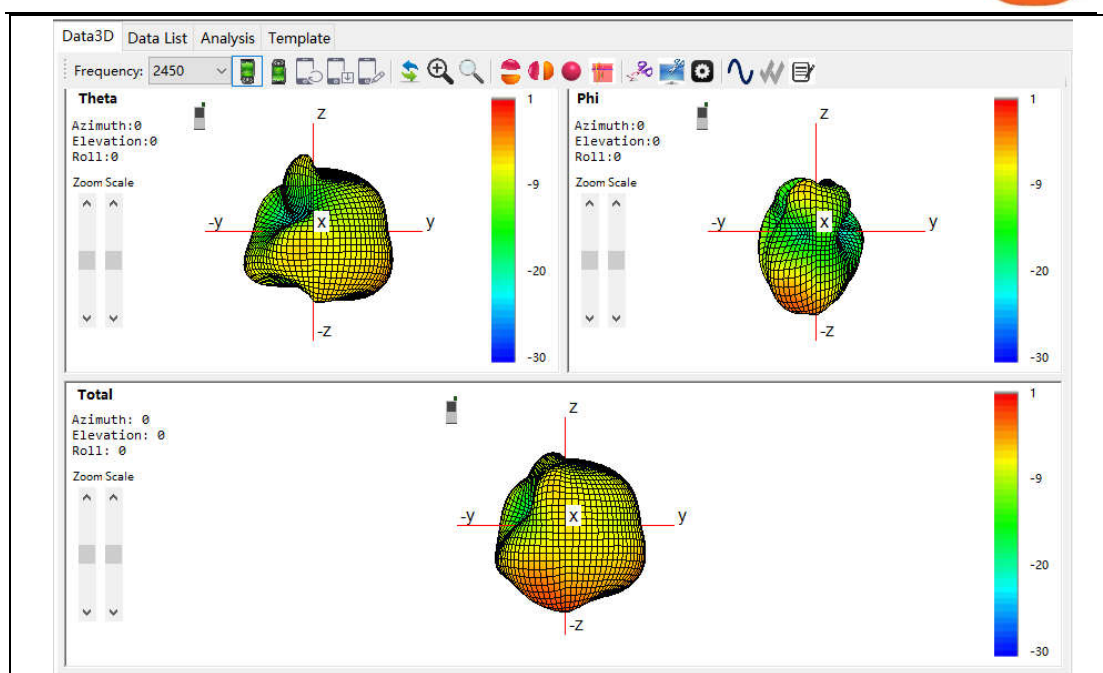


Band for Antenna 7	WIFI_2.4G ANT			
	Avg.Effi.(dB)	EIRP	合路传导功率	Peak gain(dBi)
2.4G (2400~2485MHz)	-4.6	19.2	21.8	-2.6
Bluetooth	-4.6			



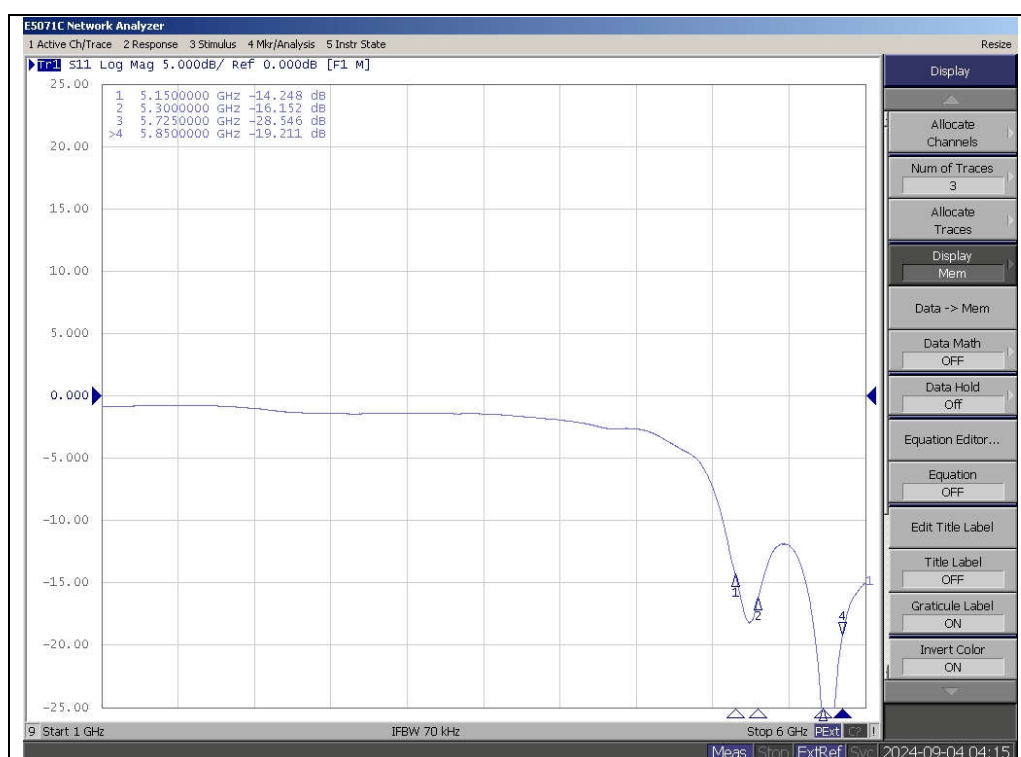
Frequency

2450MHz

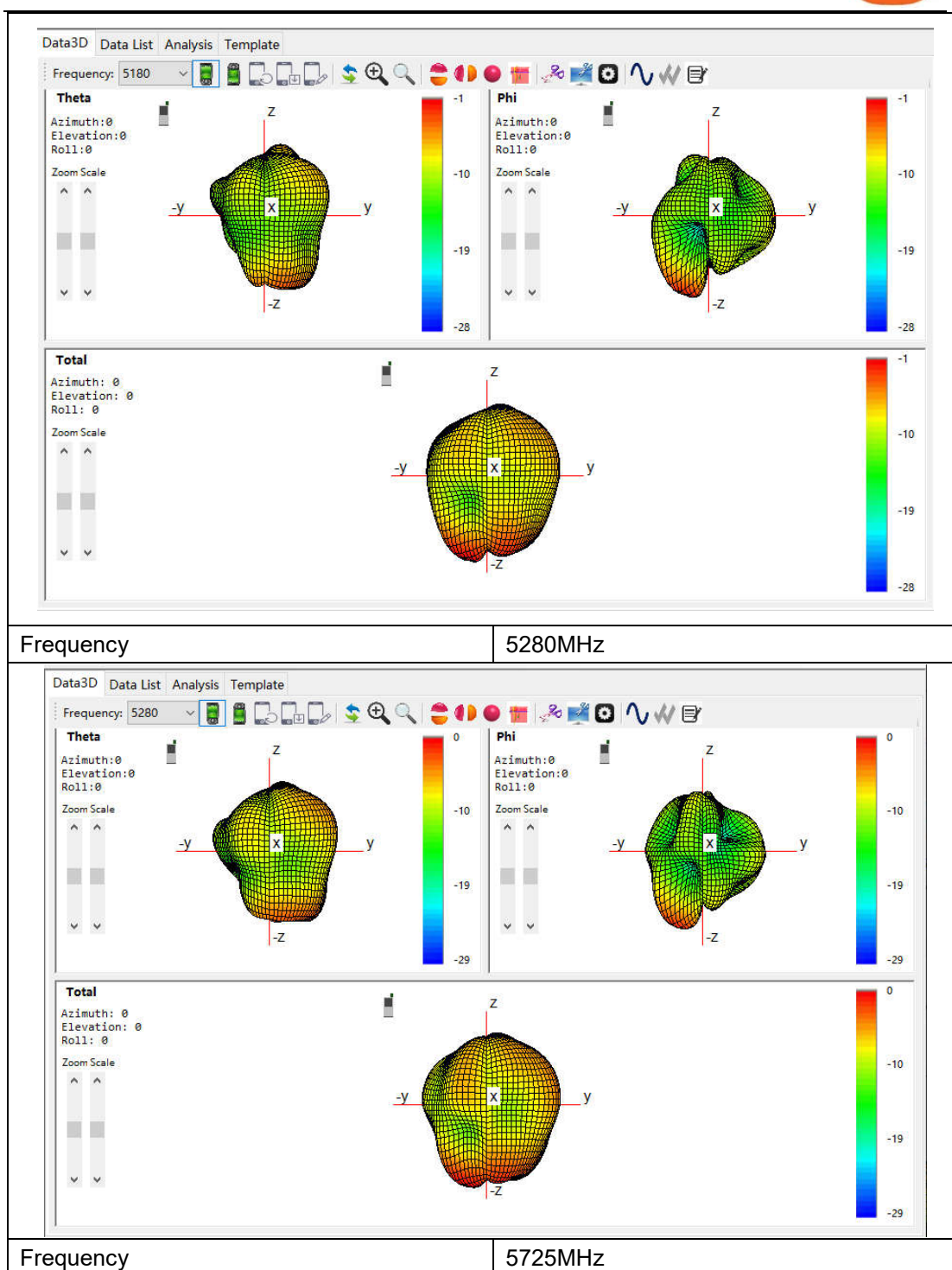


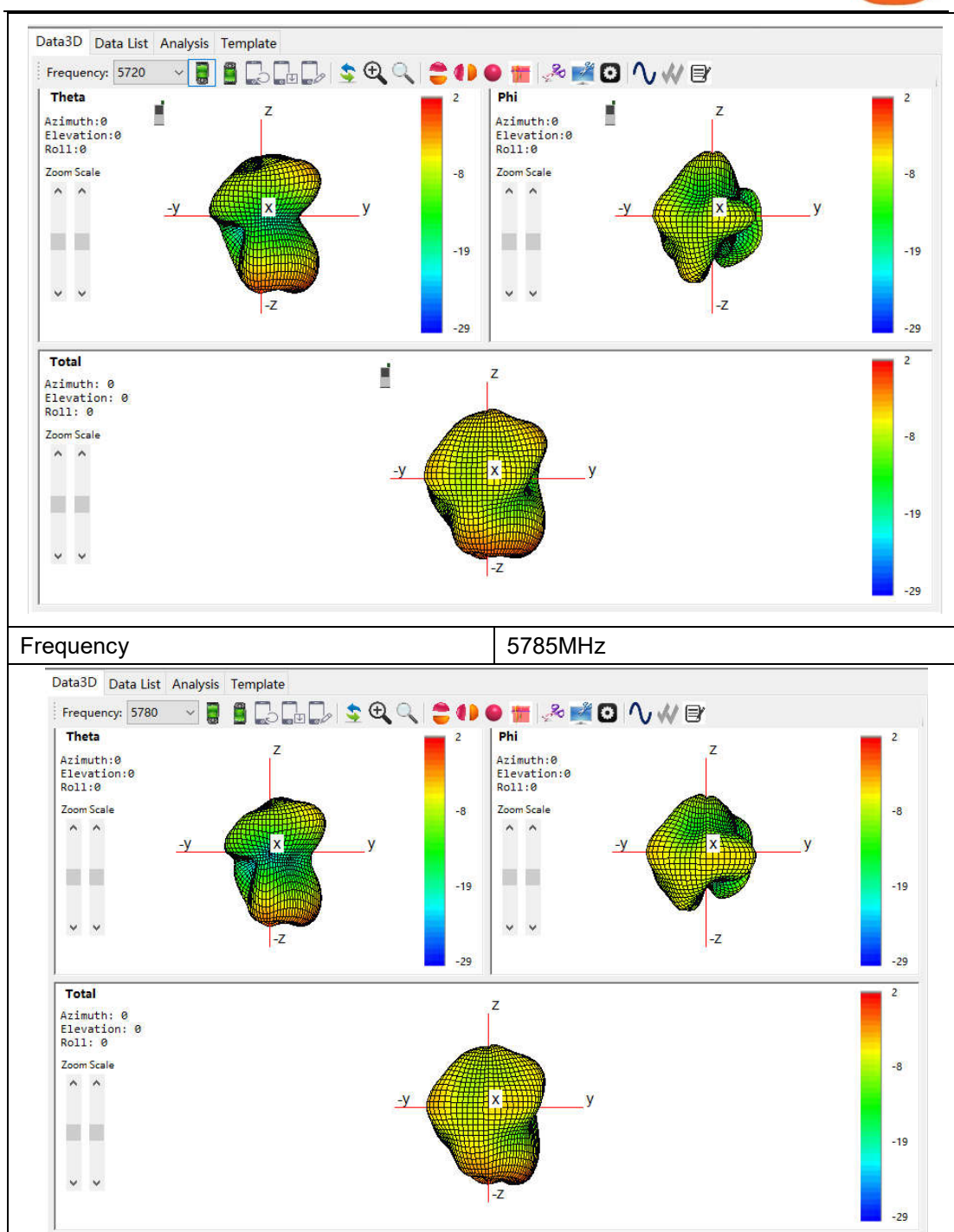


Band for Antenna 17	WIFI_5G ANT			
	Avg.Effi.(dB)	EIRP	合路传导功率	Peak gain(dBi)
5G (5150~5250MHz)	-6.1	19.6	21.6	-2
5G (5250~5350MHz)	-5.2	19.7	21.5	-1.8
5G (5470~5725MHz)	-4.8	19.9	21.6	-1.7
5G (5470~5850MHz)	-5.1	20.1	21.7	-1.6



Frequency	5180MHz
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3. Main Test Instruments

Name	Manufacturer	Model name	Software name	Serial Number	Cal., Date	Exp., Date
E5071C	KEYSIGHT	E5071C	GTS Max sign	EQ80224	2024.06.15	2024.12.15
8000A	Anritsu	8000A	GTS Max sign	EQ80224	2024.06.15	2024.12.15

End of Test Report