



Antenna Performance Description

Applicant: Xiaomi Communications Co., Ltd

Product description: Mobile Phone

Model Name: 2412DPC0AG

FCC ID: 2AFZZPC0AG

Test date: 2024/09/26

Tester: Min Jie



1. Antenna information

Antenna	Pattern	Antenna Type	Serial Number	Manufacturer	Manufacturer Address	Test party of Antenna gain
ANT7	Metal Frame	IFA Antenna	TD LY	Tongda xiamentechnology Co.,Ltd Lingyi iTech	88Ding Shan Zhong Lu, Dongfu,Haicang District, Xiamen, Fujian Province No. 8, Longwan Road, Pengjiang District, Jiangmen City, Guangdong Province	Shenzhen Xiaomi Communications Co., Ltd.
ANT17	Metal Frame	IFA Antenna	TD LY	Tongda xiamentechnology Co.,Ltd Lingyi iTech	88Ding Shan Zhong Lu, Dongfu,Haicang District, Xiamen, Fujian Province No. 8, Longwan Road, Pengjiang District, Jiangmen City, Guangdong Province	Shenzhen Xiaomi Communications Co., Ltd.
ANT18	Metal Frame	IFA Antenna	TD LY	Tongda xiamentechnology Co.,Ltd Lingyi iTech	88Ding Shan Zhong Lu, Dongfu,Haicang District, Xiamen, Fujian Province No. 8, Longwan Road, Pengjiang District, Jiangmen City, Guangdong Province	Shenzhen Xiaomi Communications Co., Ltd.
ANT19	Metal Frame	IFA Antenna	TD LY	Tongda xiamentechnology Co.,Ltd Lingyi iTech	88Ding Shan Zhong Lu, Dongfu,Haicang District, Xiamen, Fujian Province No. 8, Longwan Road, Pengjiang District, Jiangmen City, Guangdong Province	Shenzhen Xiaomi Communications Co., Ltd.

NFC Antenna Size:315mm×305mm, Type: Coil

Software version

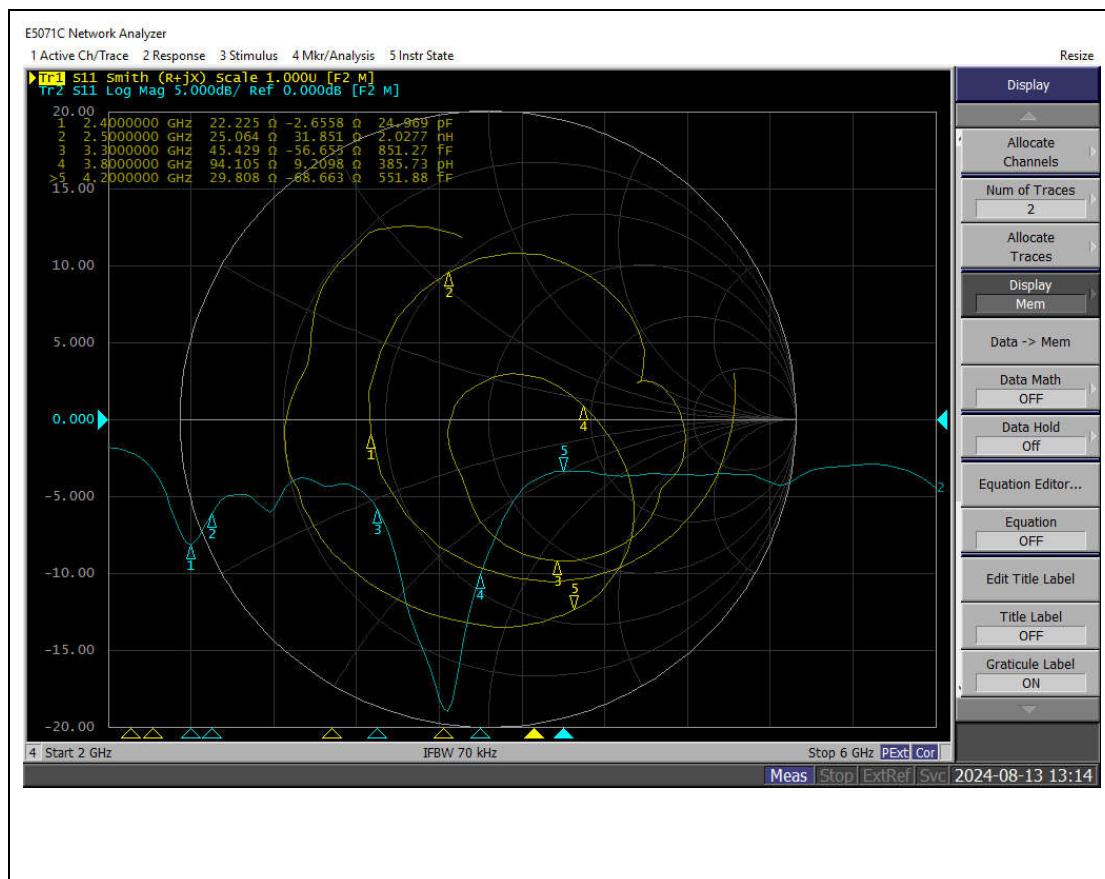
MaxSign Libra
Version - 1.3.7
Patent 9,614,627
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General Test System
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2. Test data

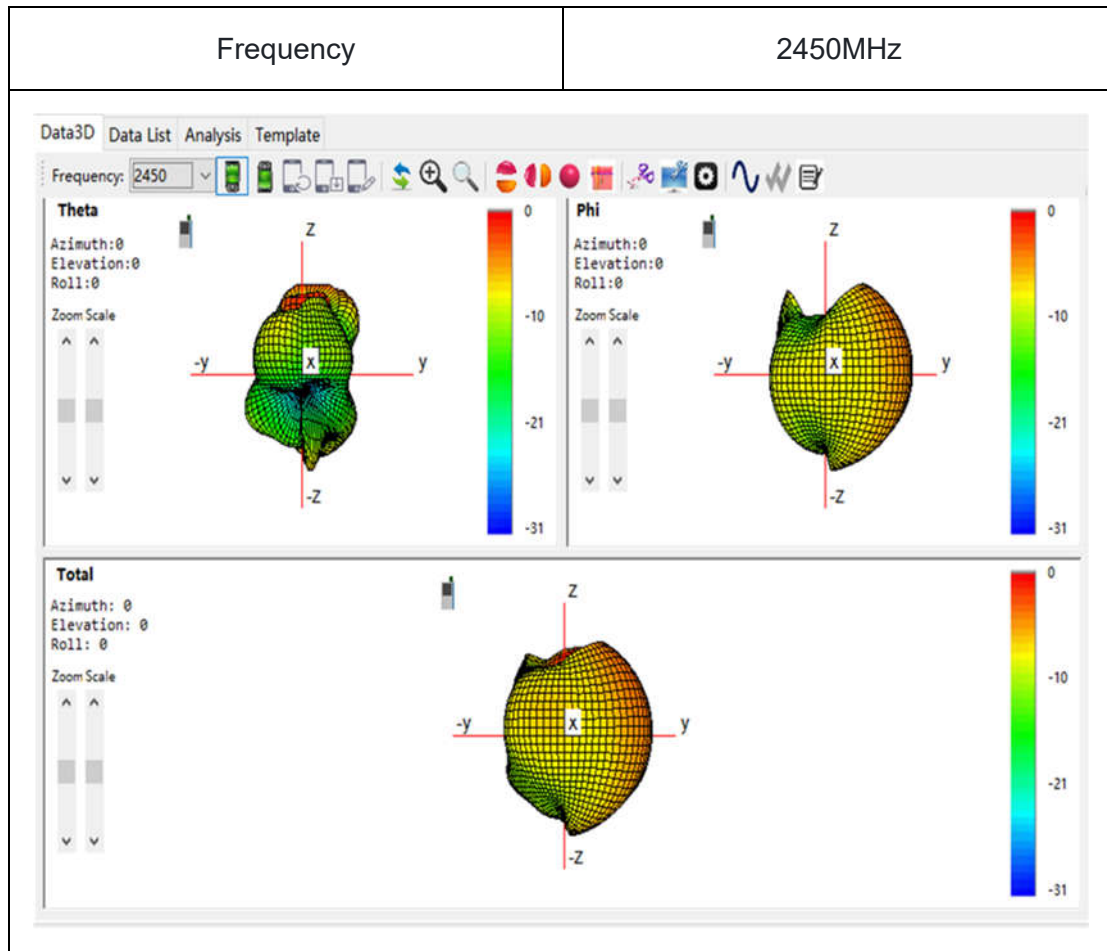
Band for Antenna 7	WiFi 2.4G ANT	
	Avg.Effi.(dB)	Peak gain(dBi)
2.4G(2400~2485MHz)	-6.5	-1.5

S Parameters





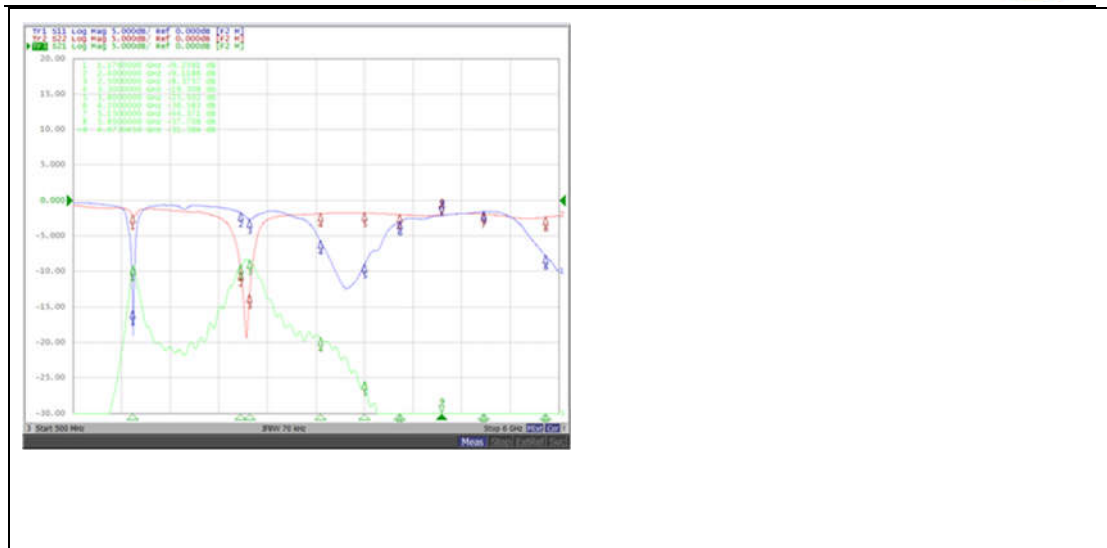
Radiation pattern



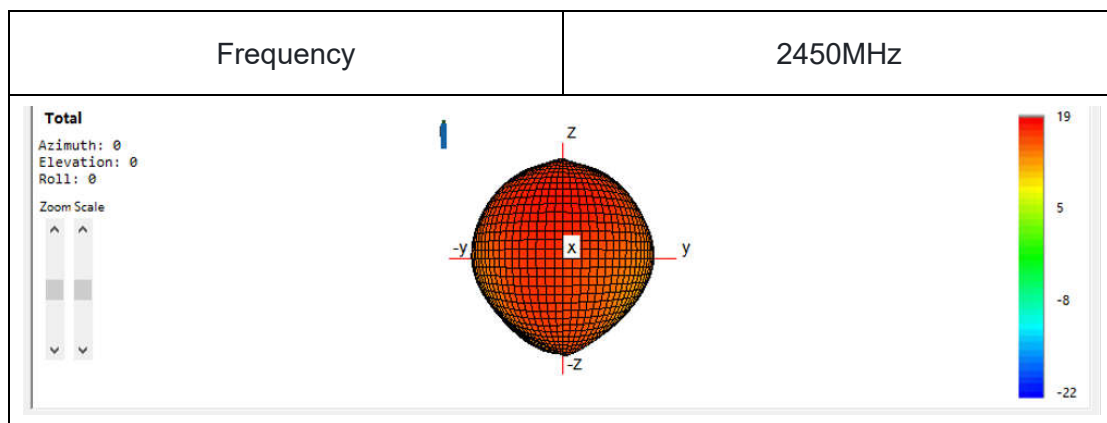
Radiation pattern

Band for Antenna 17	WIFI_2.4G ANT	
	Avg.Effi.(dB)	Peak gain(dBi)
2.4G(2400~2485MHz)	-6	-2.7
Bluetooth	-6	-2.7

S Parameters



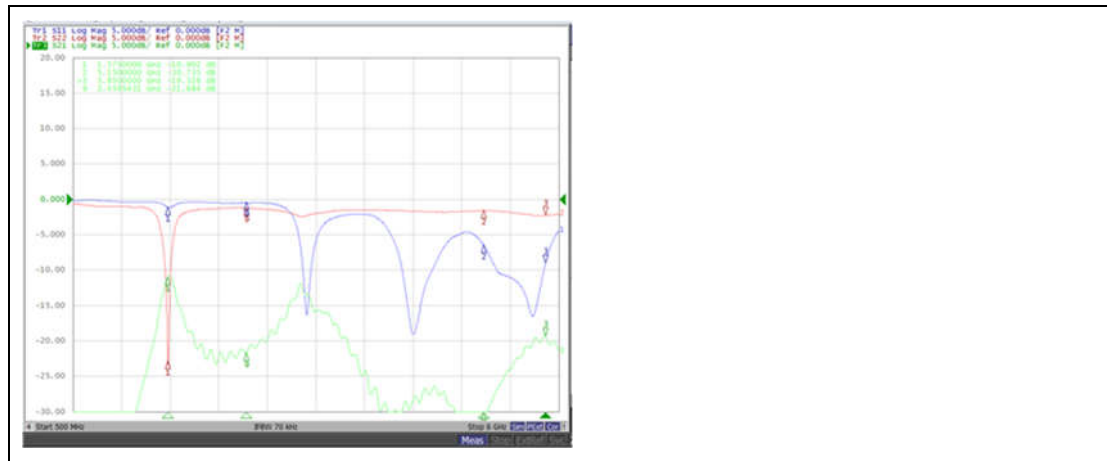
Radiation pattern





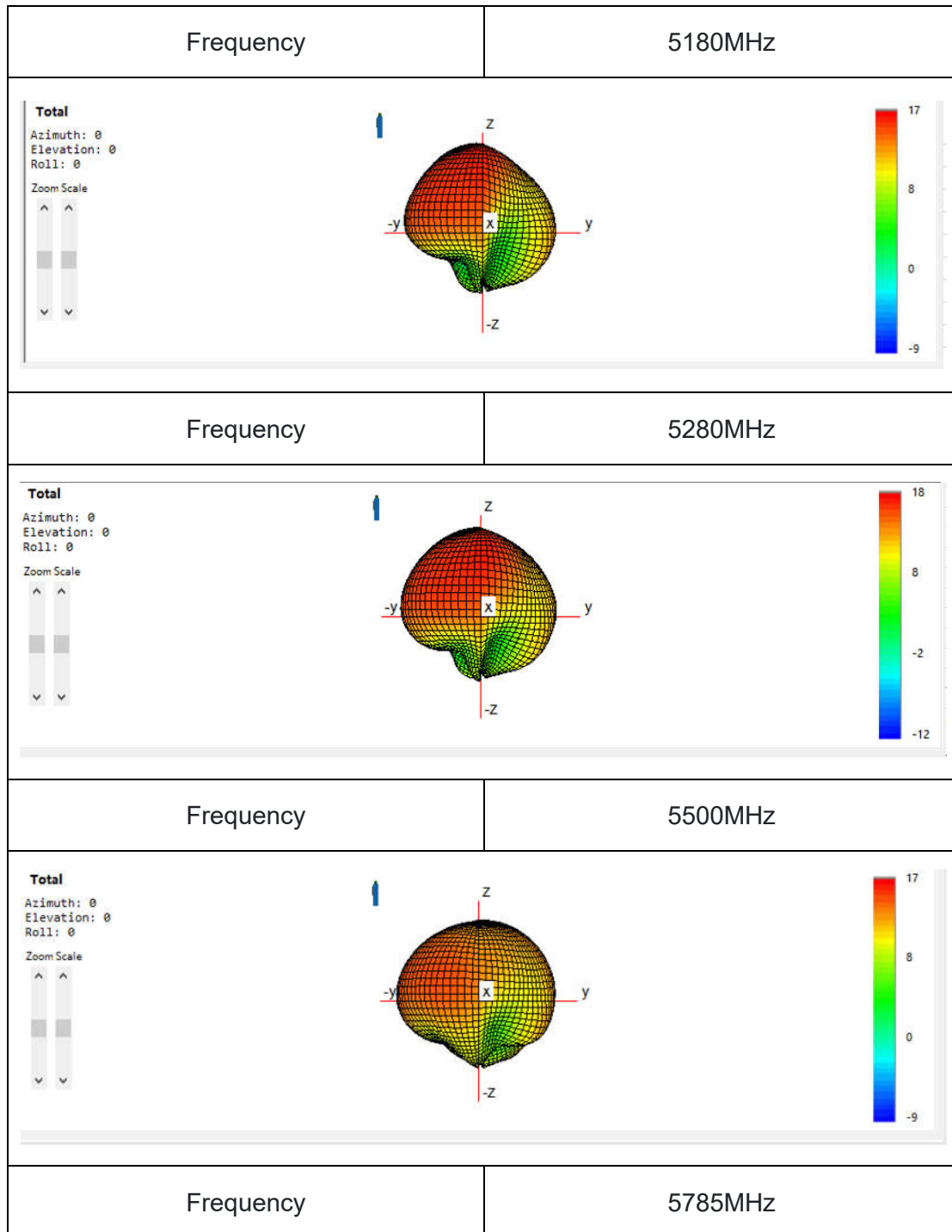
Band for Antenna 18	WIFI_5G ANT	
	Avg.Effi.(dB)	Peak gain(dBi)
5G (5150~5250MHz)	-5.8	-3
5G (5250~5350MHz)	-5.3	-2.5
5G (5470~5725MHz)	-5	-2.5
5G (5470~5850MHz)	-5.1	-3.5

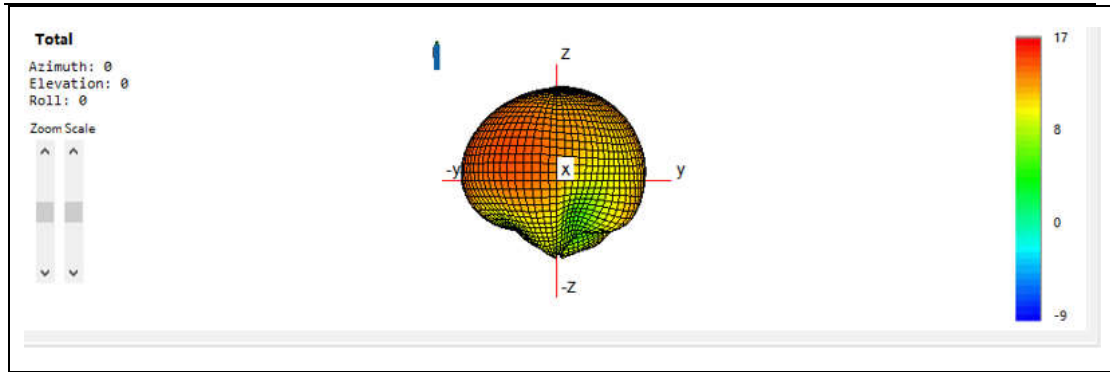
S Parameters





Radiation pattern

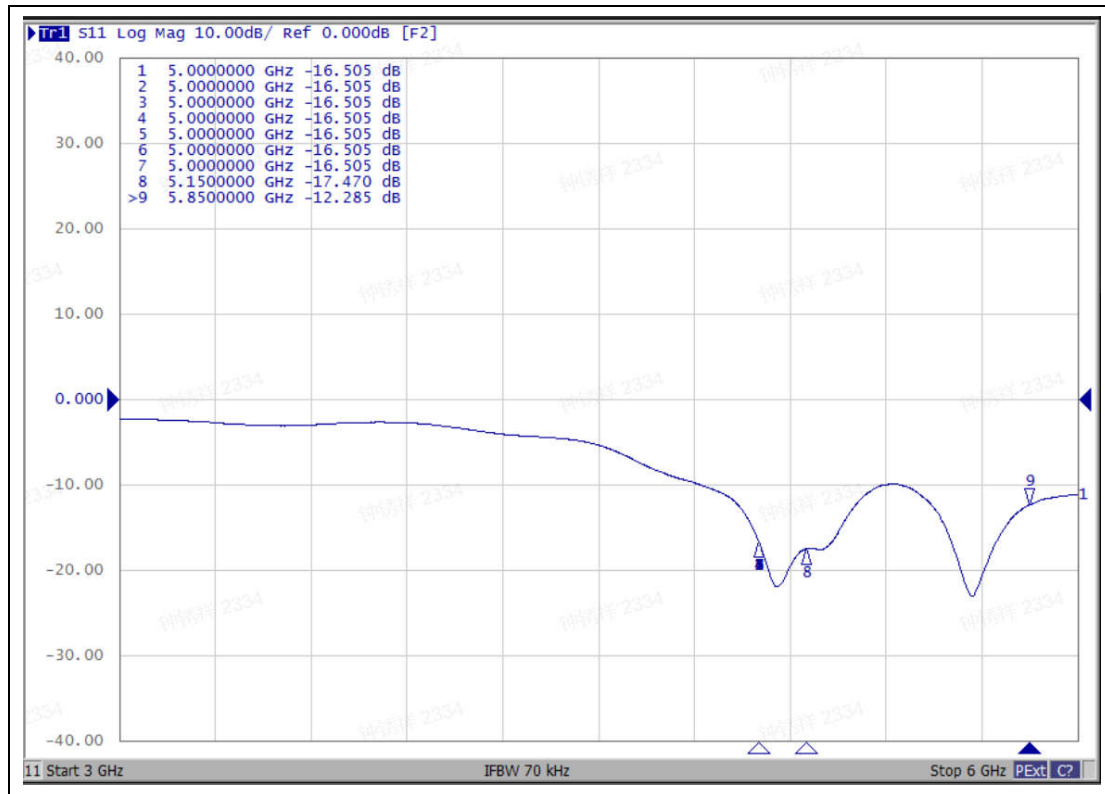






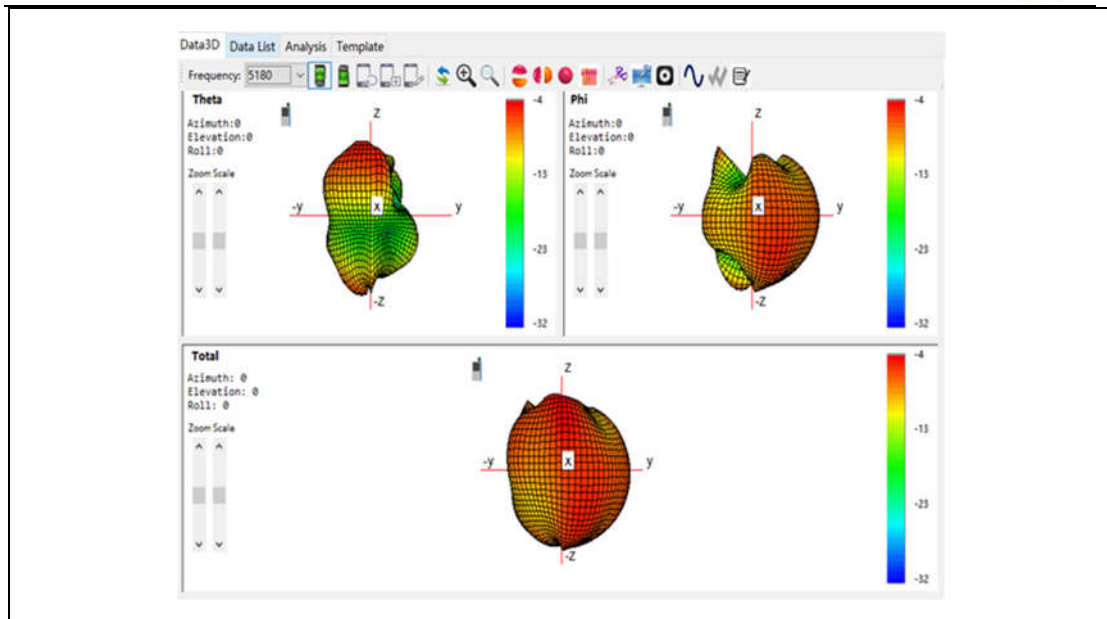
Band for Antenna 19	WIFI_5G ANT	
	Avg.Effi.(dB)	Peak gain(dBi)
5G (5150~5250MHz)	-6.2	-3.8
5G (5250~5350MHz)	-5.7	-2.9
5G (5470~5725MHz)	-5	-2.0
5G (5470~5850MHz)	-5.2	-2.0

S Parameters



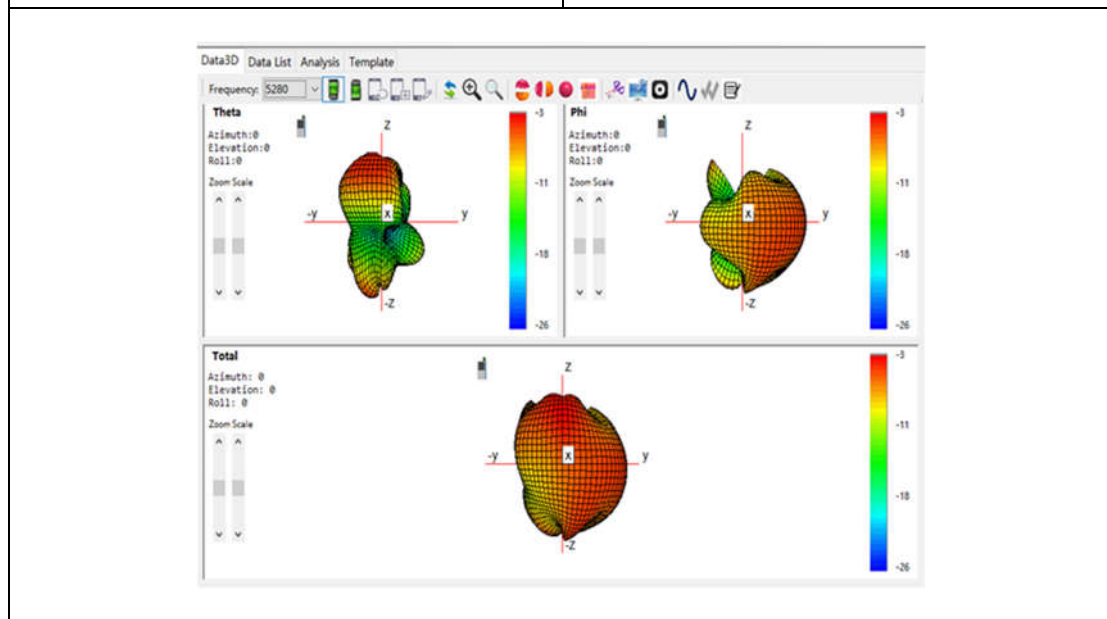
Radiation pattern

Frequency	5180MHz
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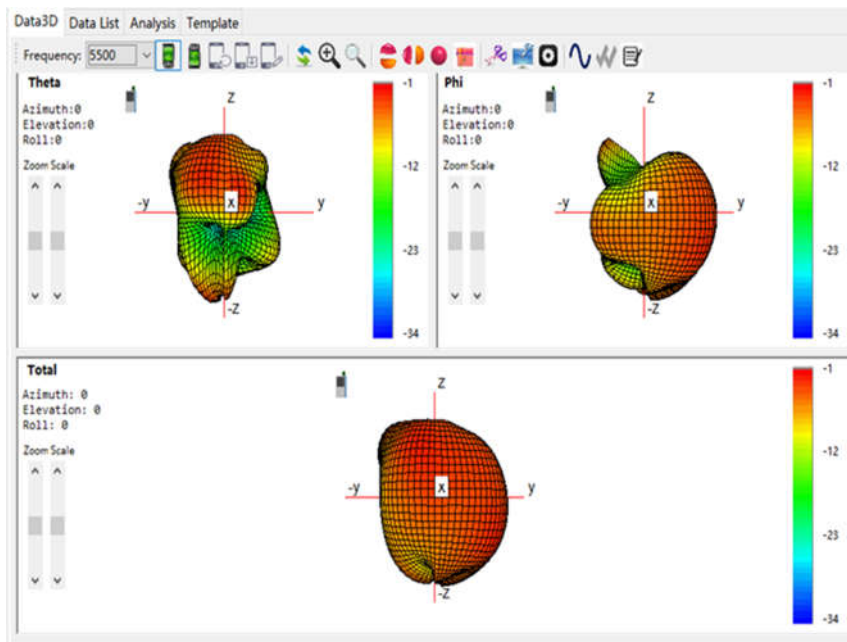
Frequency

5280MHz



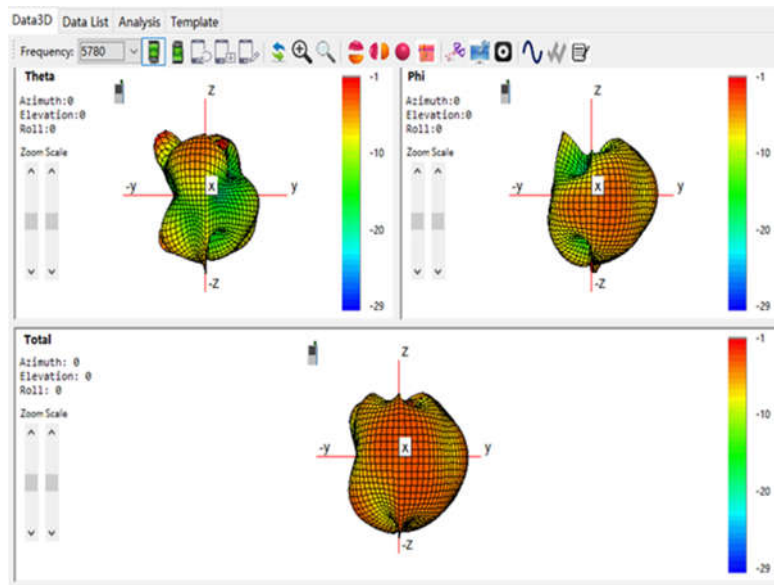
Frequency

5500MHz



Frequency

5785MHz





3. Main Test Instruments

Name	Manufacturer	Model name	Serial Number	Cal., Date	Exp., Date
E5071C	KEYSIGHT	E5071C	EQ80224	2024-09-06	2025-09-06
GTS2800	MaxSign Libra	GTS2800	/	2024-09-06	2025-09-06

End of Test Report