

Antenna_Performance_Description

Applicant: Xiaomi Communications Co., Ltd

Product description: Tablet Computer

Model Name: 25091RP04G

FCC ID: 2AFZZRP04G

Test date: 2025/7/1

1. Antenna information

Antenna	Model Name	Antenna Pattern	Antenna Type	Manufacturer	Manufacturer Address	Test party of Antenna gain
ANT0	AL6M13	FPC	PIFA Antenna	AAC& RUIXIANG	AAC: No. 133 Weixin Road, Suzhou Industrial Park, Jiangsu Province, China RUIXIANG: Room 009, No. 55, Shengchuang Road, Yushan Town, Kunshan City, Jiangsu Province, China	Xiaomi Nanjing Technology Park
ANT1	AL6M13	/	Resonant cavity antenna	AAC& RUIXIANG		Xiaomi Nanjing Technology Park
ANT2	AL6M13	/	Resonant cavity antenna	AAC& RUIXIANG		Xiaomi Nanjing Technology Park

2. Test data

Eff:

Band for Antenna0		Eff(dB)
wifi2.4G	2412MHz	-8.3
	2437MHz	-8.0
	2462MHz	-7.7
wifi5G	5.15~5.25 GHz	-5.4

	5.25~5.35 GHz	-5.3
	5.47~5.725 GHz	-5.3
	5.725~5.85 GHz	-5.6
WIFI 6E	B5	-7.2
	B6	-6.9
	B7	-6.4
	B8	-6.9

Band for Antenna1&2		Eff(dB)
wifi2.4G	2412MHz	-7.4
	2437MHz	-7.1
	2462MHz	-6.7
wifi5G	5.15~5.25 GHz	-4.0
	5.25~5.35 GHz	-3.9
	5.47~5.725 GHz	-4.4
	5.725~5.85 GHz	-4.3
WIFI 6E	B5	-5.0
	B6	-5.3
	B7	-5.2
	B8	-5.9

Gain:

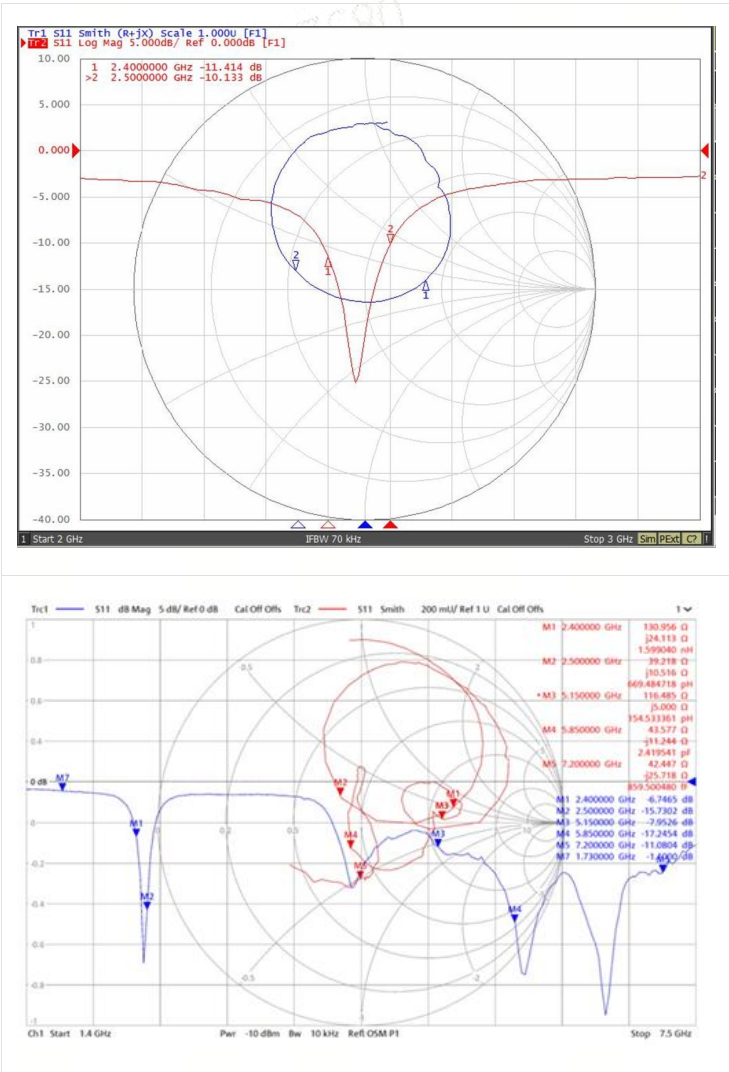
Band for Antenna0		peak gain(dBi)
wifi2.4G	2412MHz	-4.3
	2437MHz	-3.9
	2462MHz	-3.5
wifi5G	5.15~5.25 GHz	0.78
	5.25~5.35 GHz	0.71
	5.47~5.725 GHz	1.64
	5.725~5.85 GHz	1.26
wifi6E	B5	0.75
	B6	0.8
	B7	0.92
	B8	-1.1

Band for Antenna1		peak gain(dBi)
wifi5G	5.15~5.25 GHz	1.6
	5.25~5.35 GHz	1.7
	5.47~5.725 GHz	1.7
	5.725~5.85 GHz	1.4
wifi6E	B5	1.4
	B6	0.8
	B7	0.9
	B8	1

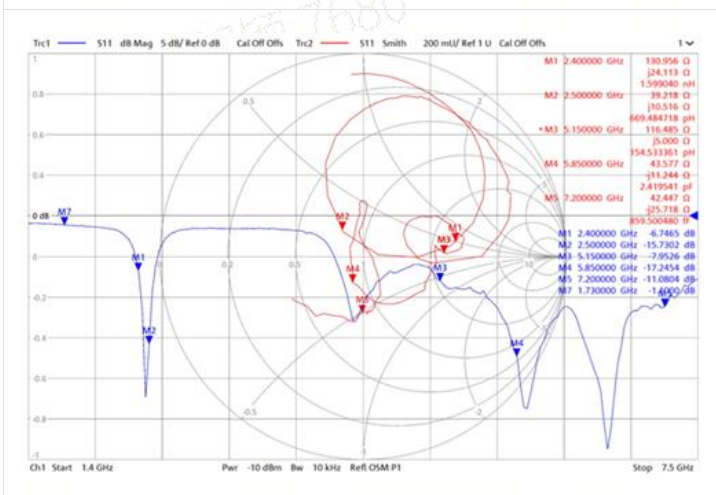
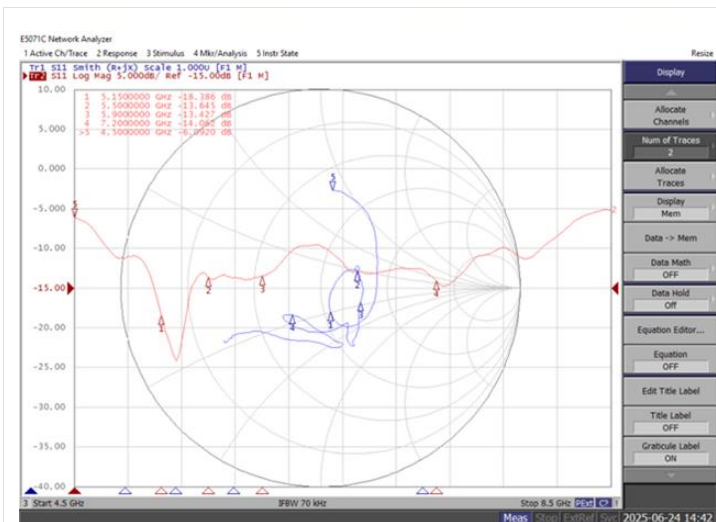
Band for Antenna2		peak gain(dBi)
wifi2.4G	2412MHz	-2.2
	2437MHz	-2.2
	2462MHz	-2.3

S11

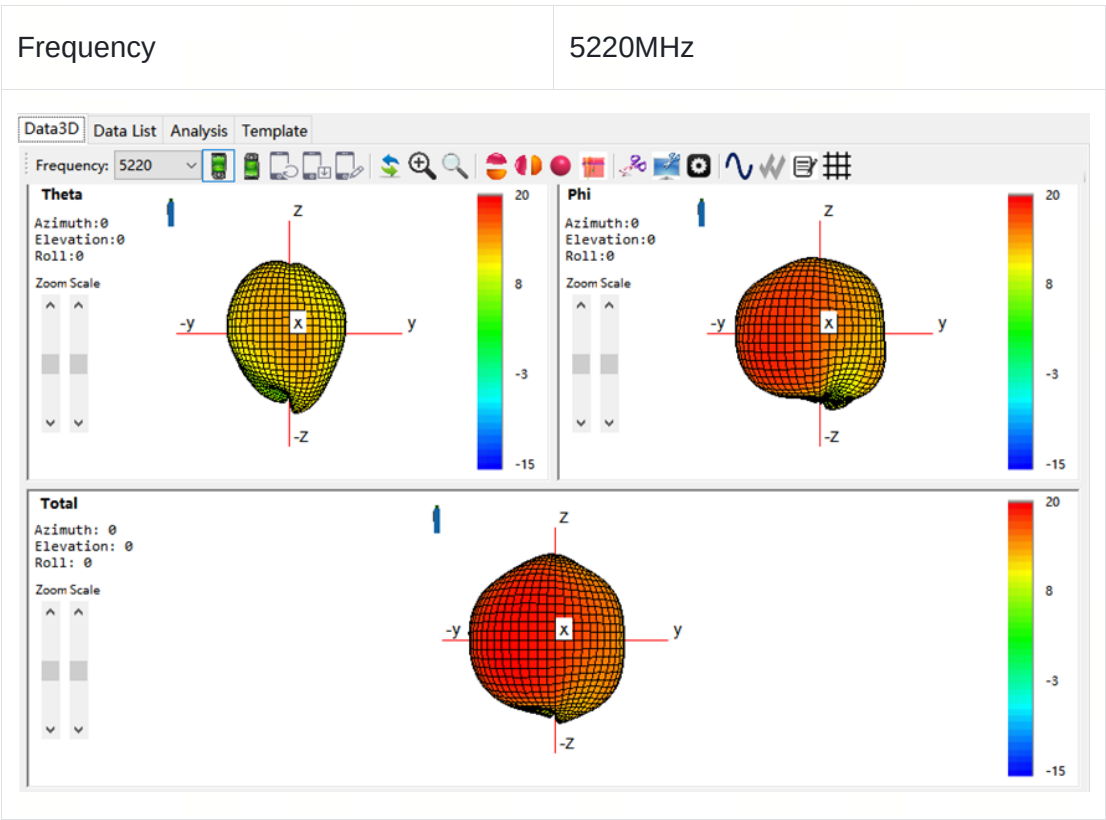
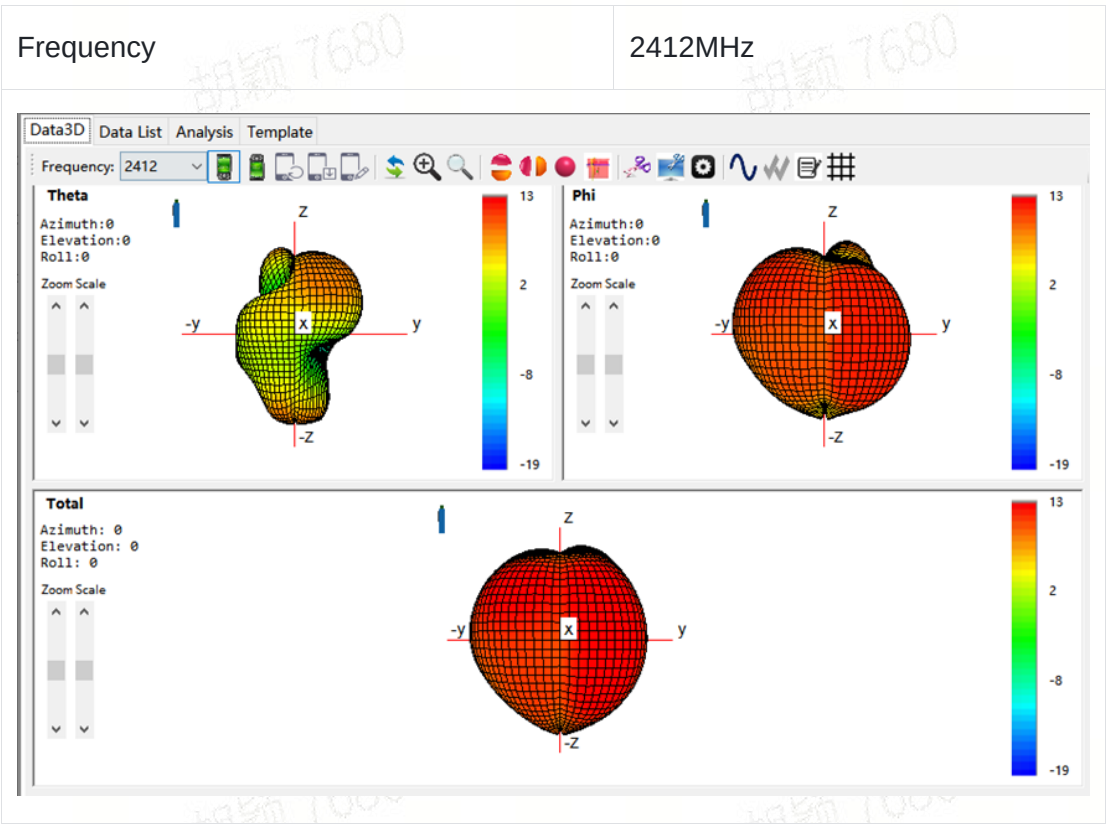
2.4G: ANT0 +ANT2



5G: ANT0 +ANT1

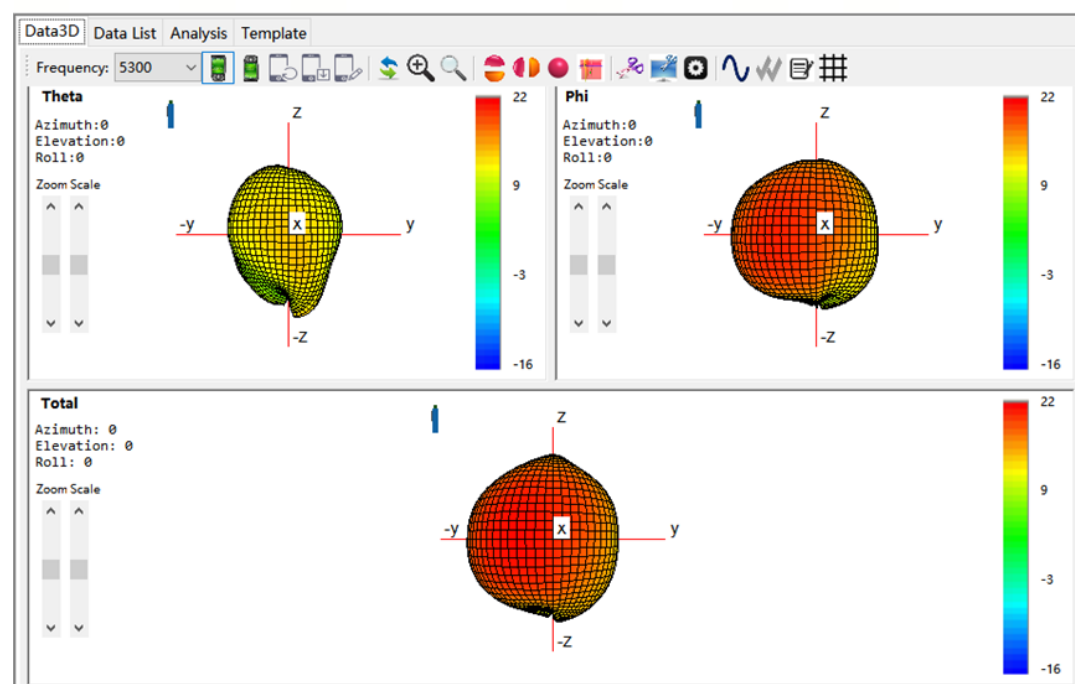


ANT0:2.4G+5G CHAIN1



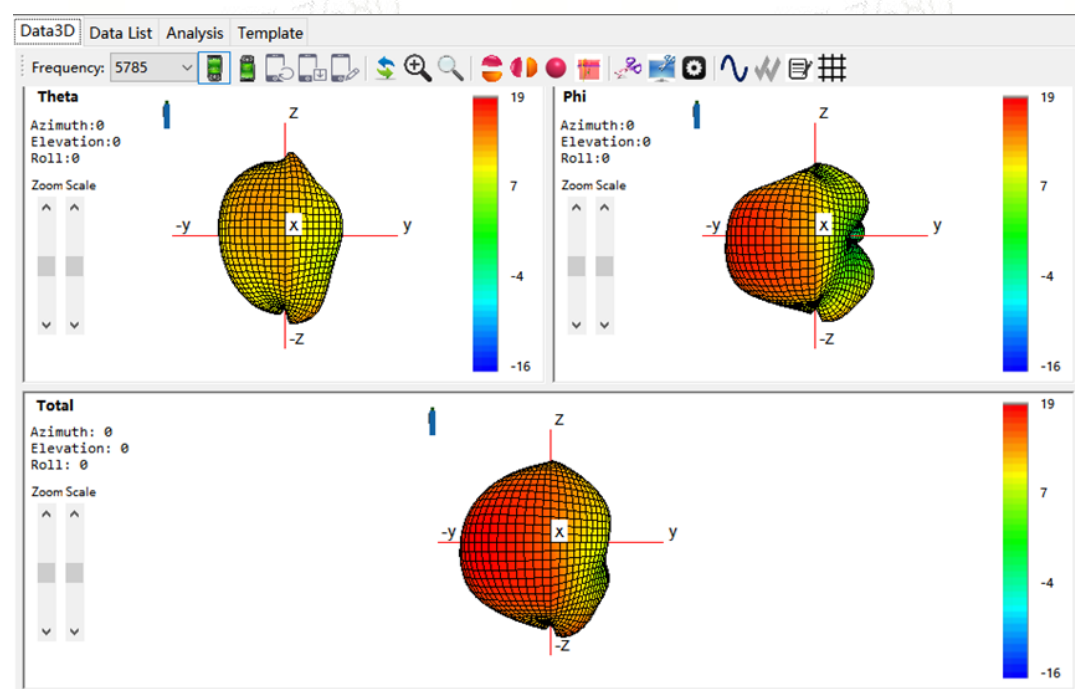
Frequency

5300MHz



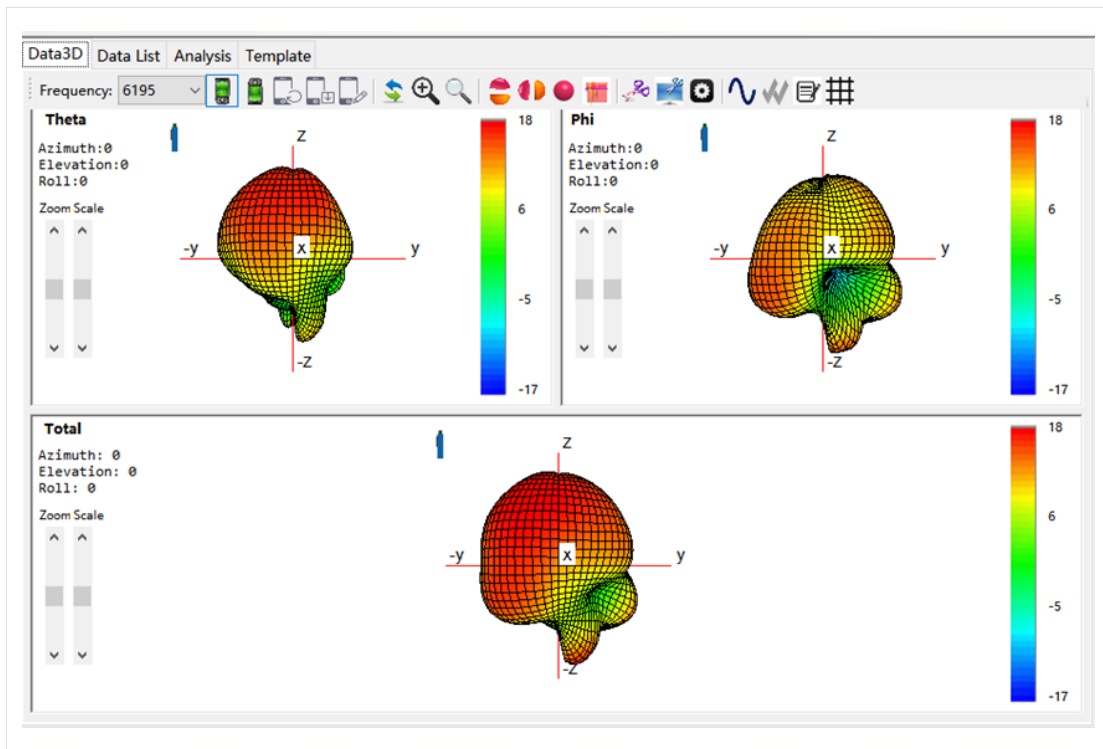
Frequency

5785MHz

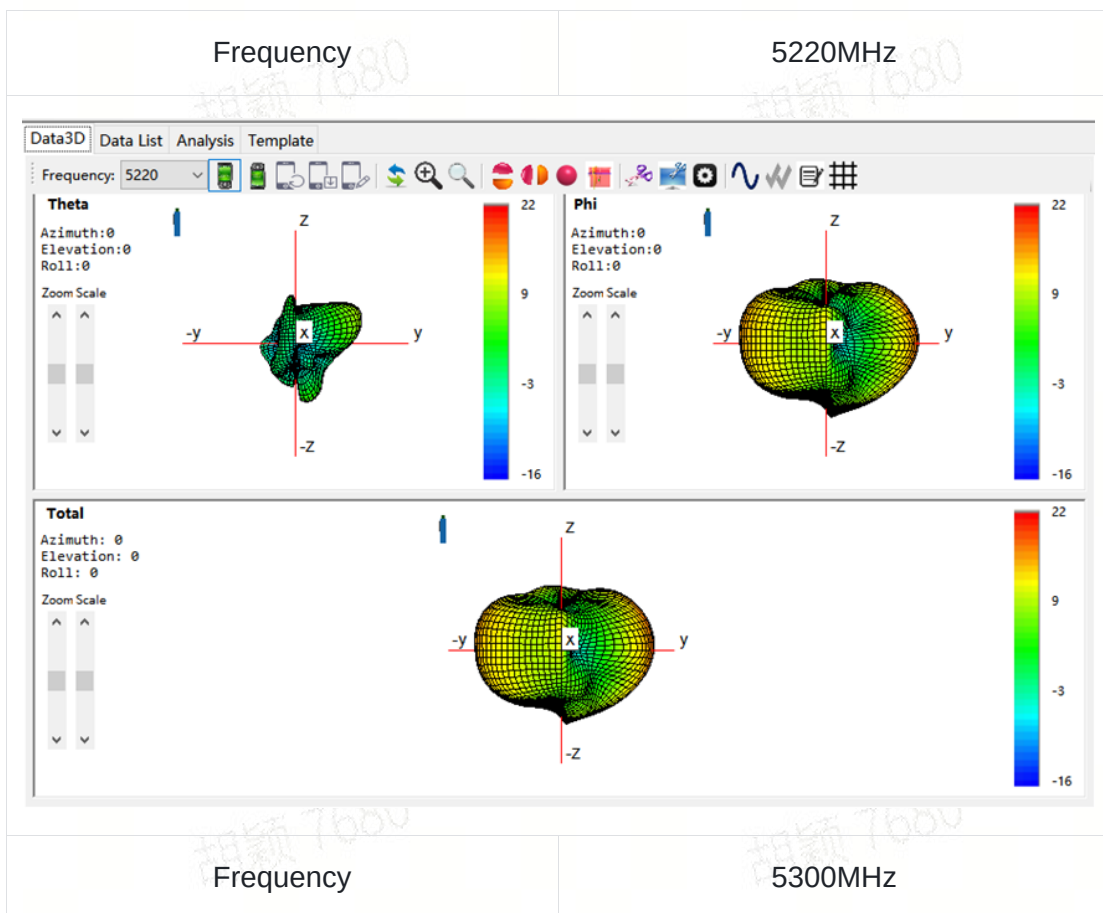


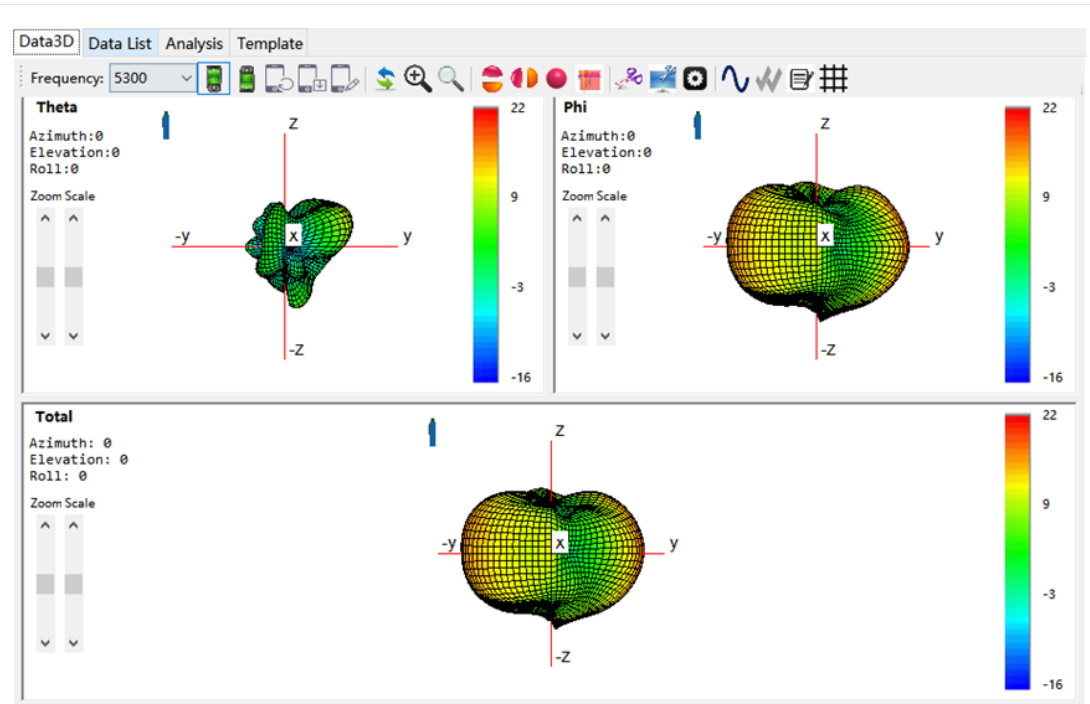
Frequency

6E



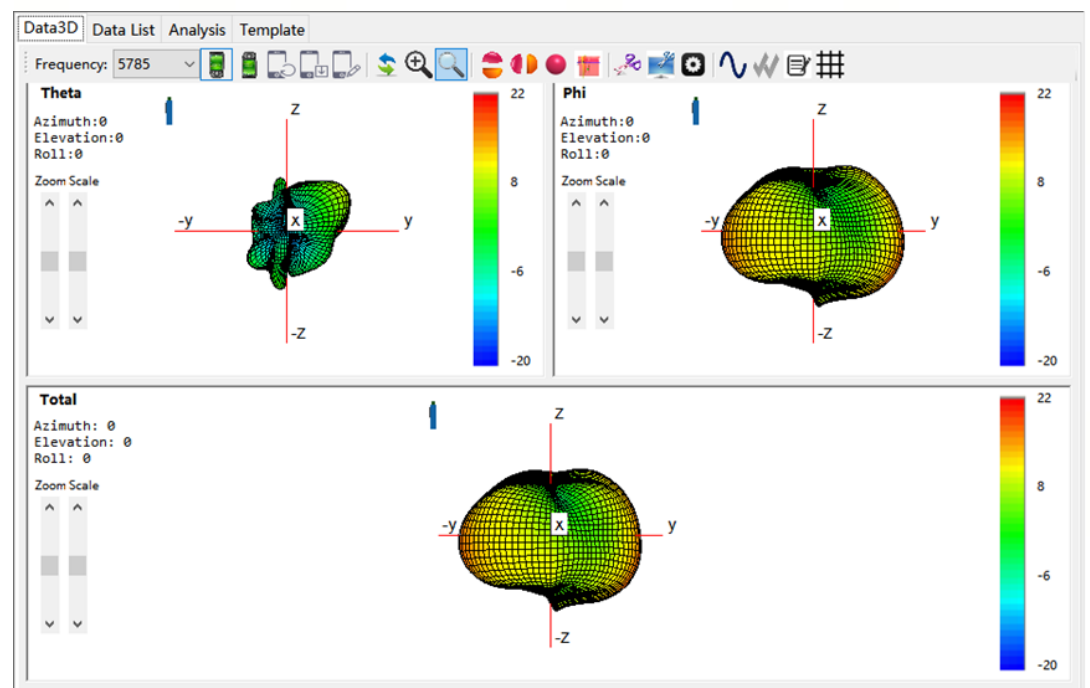
ANT1:5G CHAIN0





Frequency

5785MHz

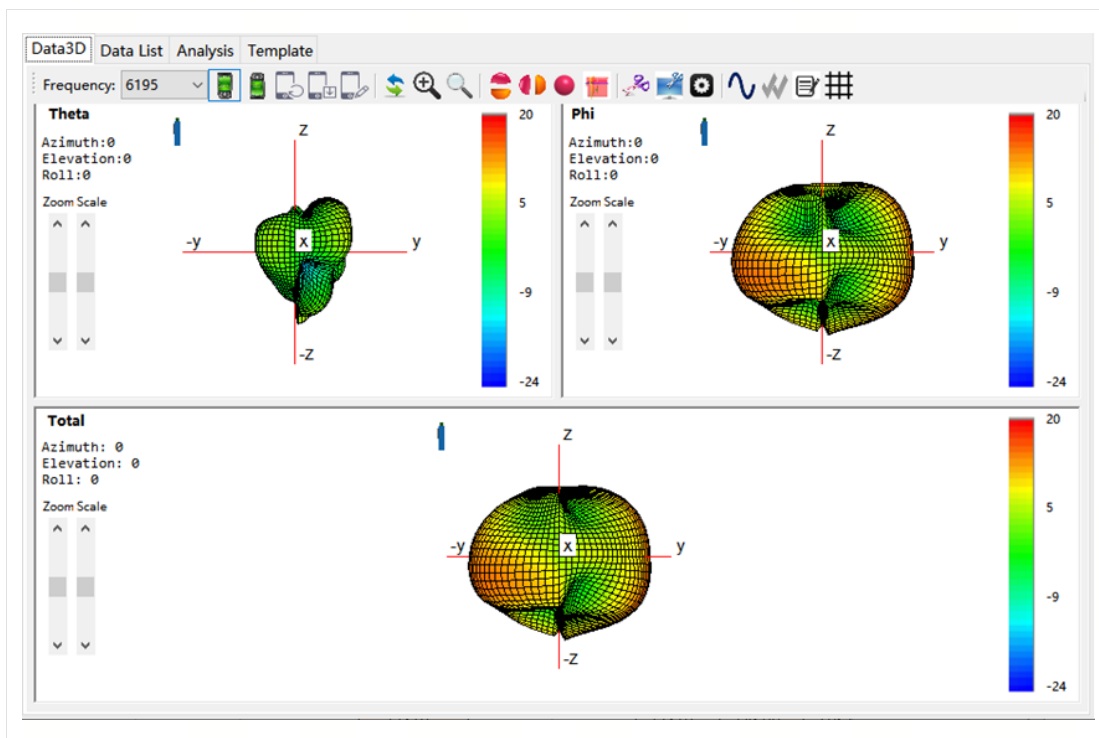


Frequency

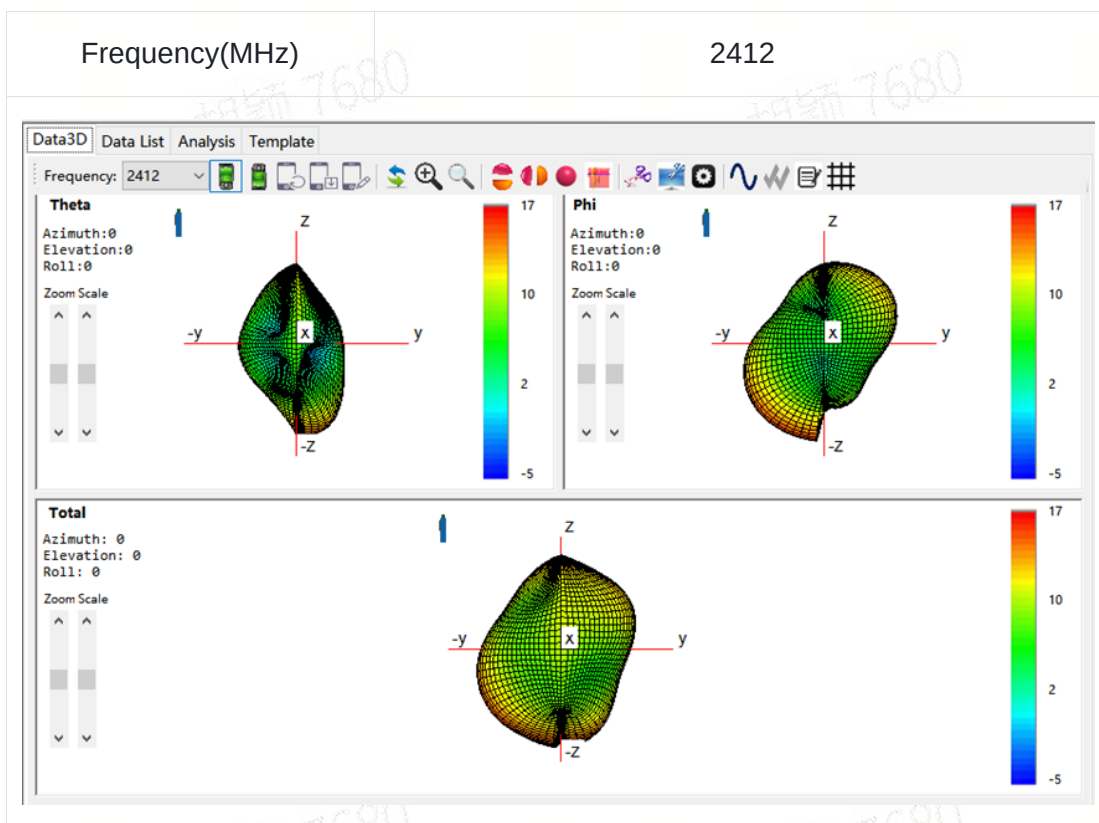
6E

胡颖 7680

胡颖 7680



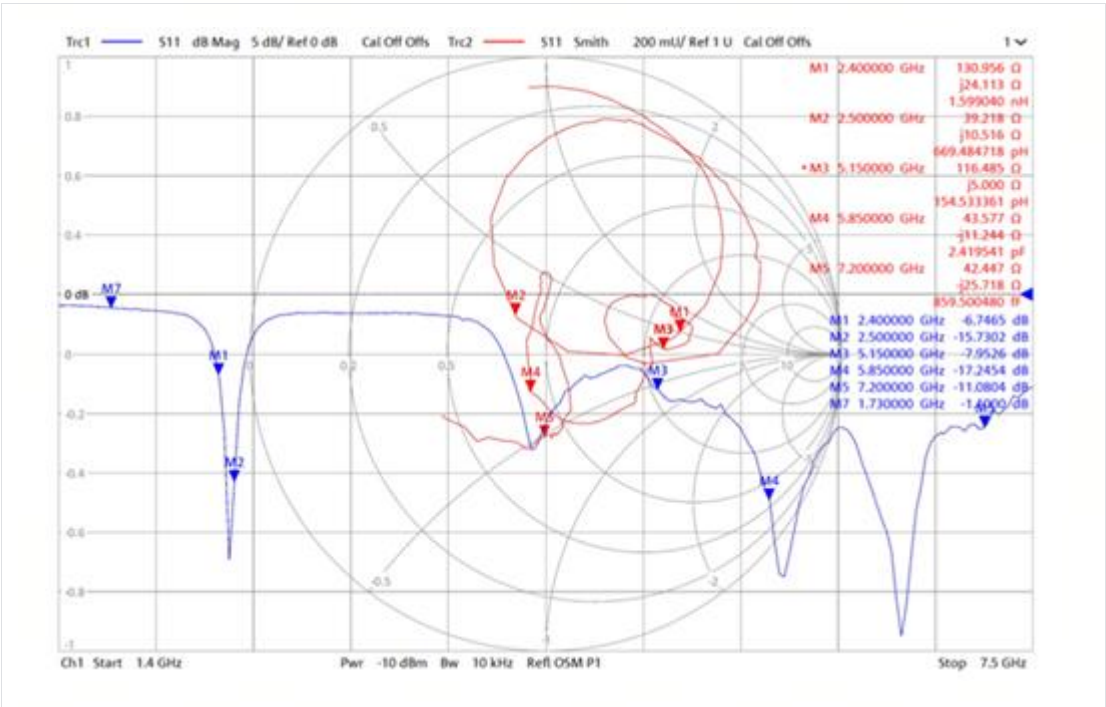
ANT2 SISO:2.4G CHAIN0

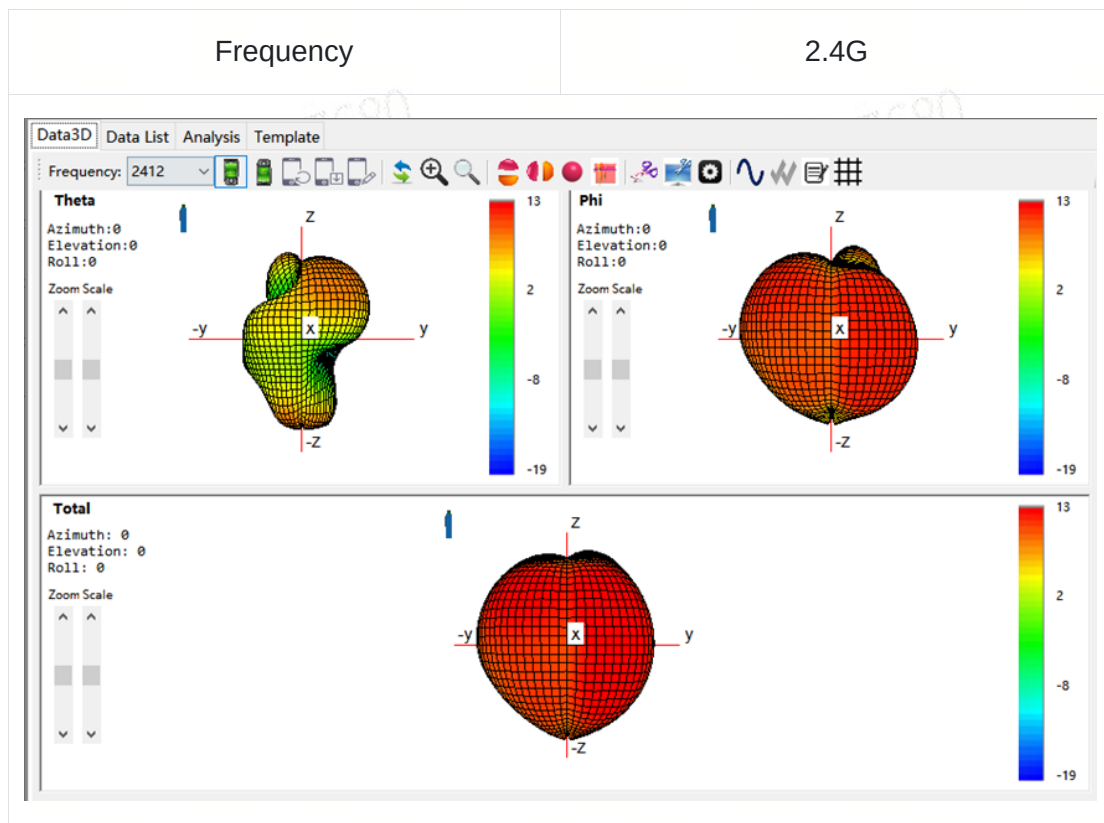


BT ANT0

Band for Antenna 0		Effi.(dB)	peak gain(dBi)
BT	2402MHz	-7.4	-4.3
	2440MHz	-7.1	-3.9
	2480MHz	-6.7	-3.5

S11

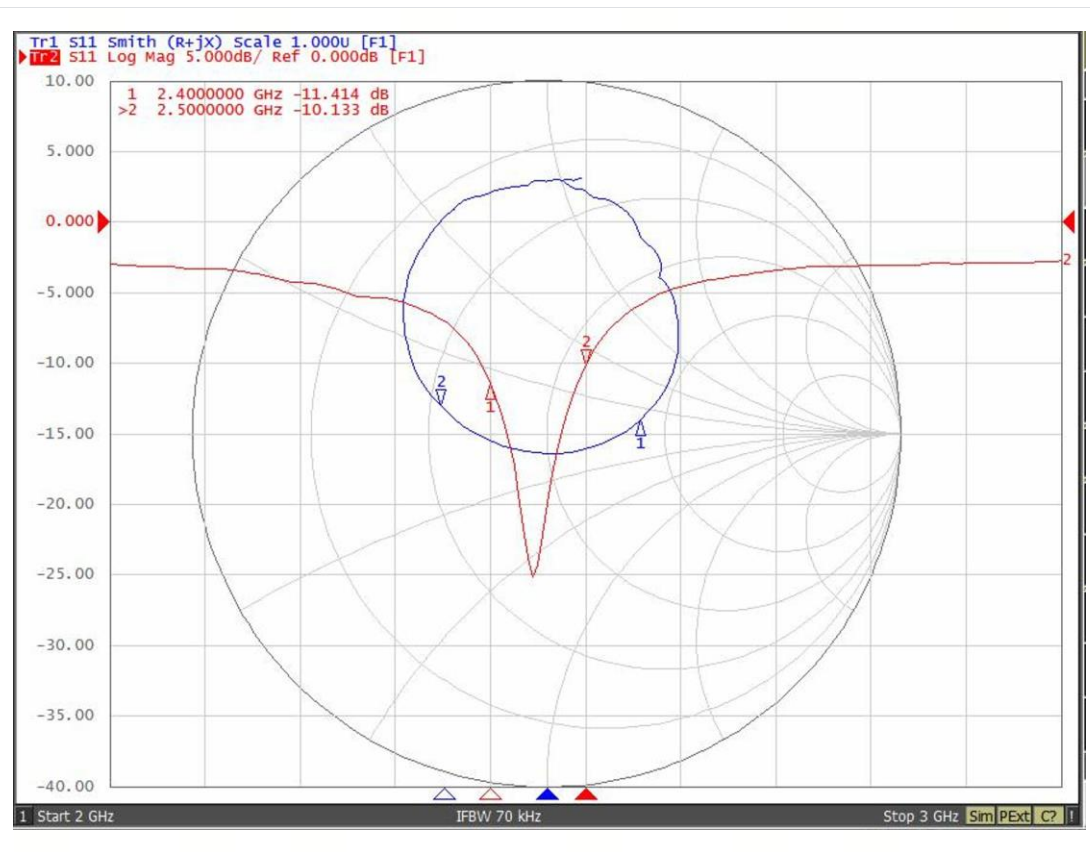




BT ANT2

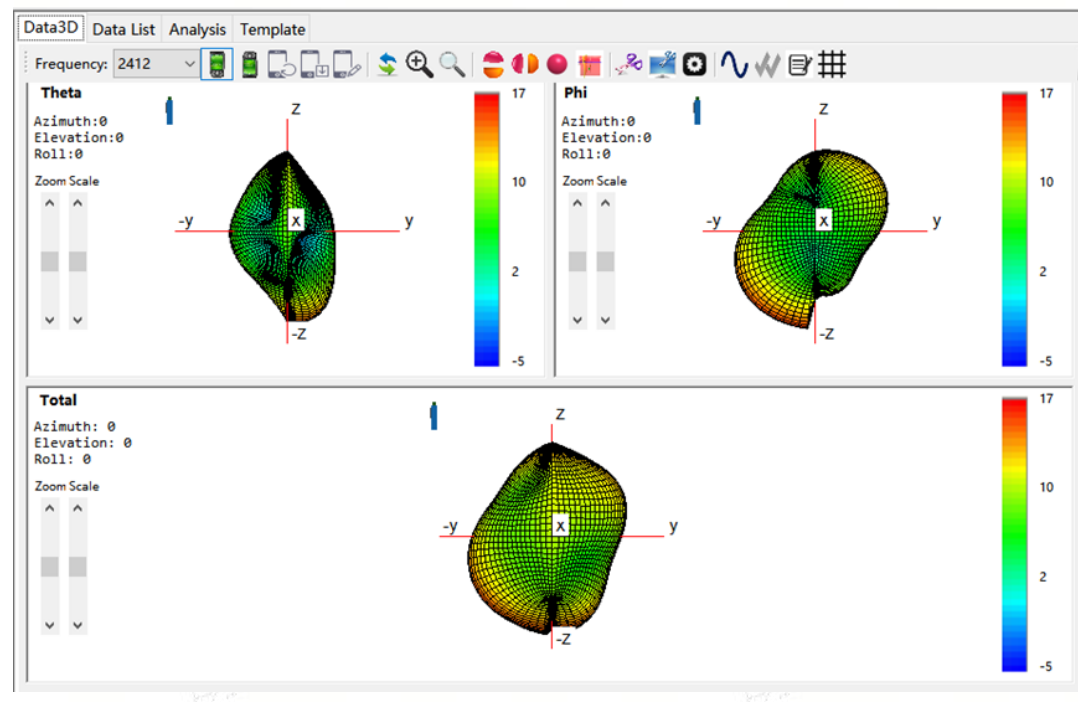
Band for Antenna 2		Effi.(dBi)	peak gain(dBi)
BT	2402MHz	-7.4	-2.2
	2440MHz	-7.1	-2.2
	2480MHz	-6.7	-2.3

S11



Frequency

2.4G

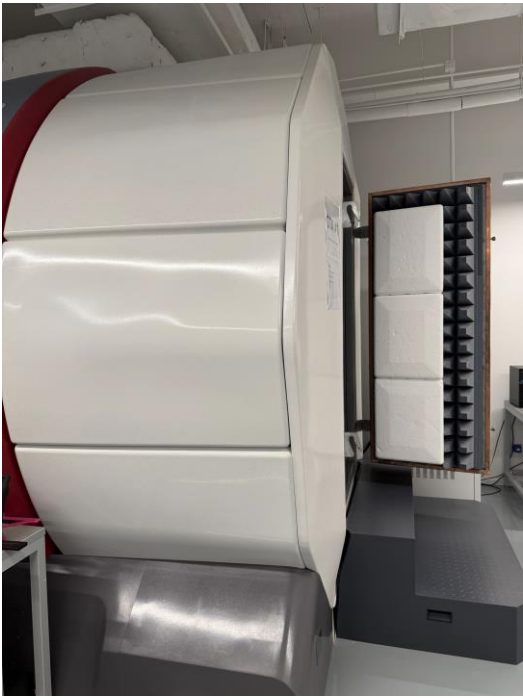


3. Main Test Instruments

Name	Manufacturer	Model name	Serial Number	Cal., Date	Exp., Date
E5071C	KEYSIGHT	E5071C	MY46733949	2025/04/01	2026/4/01
RBS CMX500	R&S	RBS CMX500	101186	2025/04/01	2026/4/01

Test software: GTS MaxSign-RayZone2800C_Z

4. Antenna test environment



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