

P82 FCC Part 15 Antenna report

Applicant: Xiaomi Communications Co., Ltd

Product description: PAD

Model Name:

FCC ID:

Test date: 2025/7/1

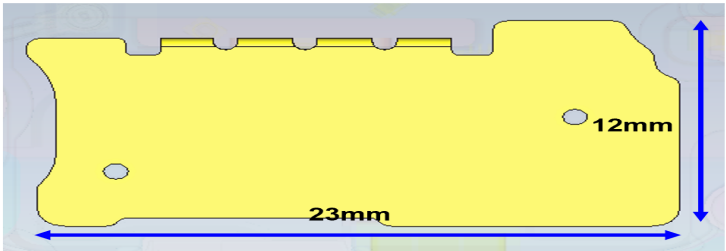
1. Antenna information

Antenna	Model Name	Antenna Size	Antenna Pattern	Antenna Type	Manufacturer	Trade mark	Manufacturer Address	Test party of Antenna gain
ANT0	AL6M13		FPC	PIFA Antenna	AAC&RUIXIANG	AAC:  RUIXIANG: 	AAC: No. 133 Weixin Road, Suzhou Industrial Park,	Xiaomi Nanjing Technology Park
ANT1	AL6M13		/	Resonant cavity antenna	AAC&RUIXIANG		Jiangsu Province	Xiaomi Nanjing Technology

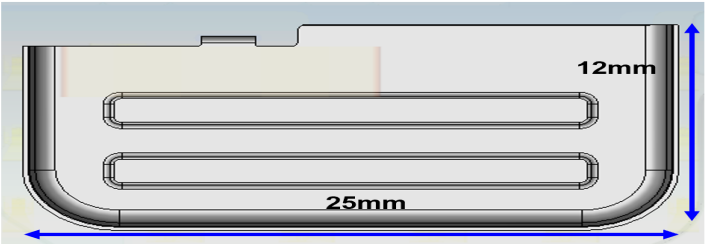
				a			e, China	ology Park
ANT2	AL6M13		/	Resonant cavity antenna	AAC&RUIXIANG		RUIXIANG: Room 009, No. 55, Shengcheng huang Road, Yushan Town, Kunshan City, Jiangsu Province, China	Xiaomi Nanjing Technology Park

Antenna Size:

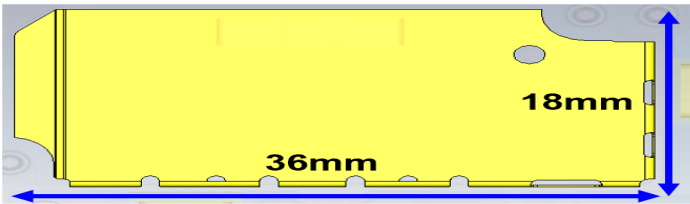
ANT0



ANT1



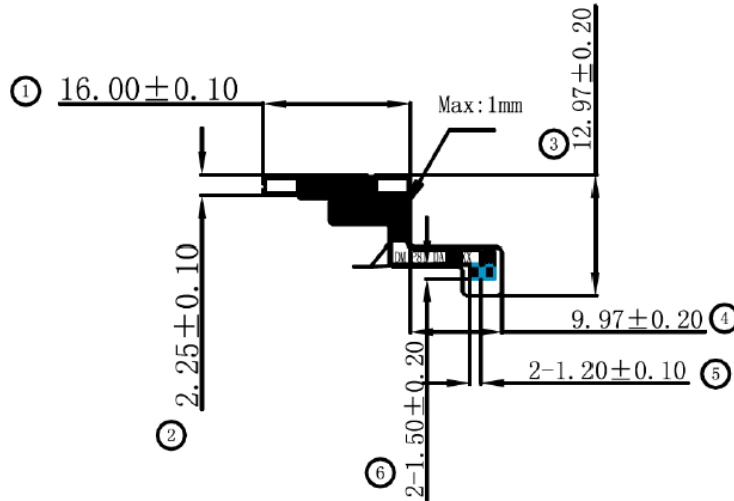
ANT2



WPC Antenna:

WPC antenna is coil antenna.

WPC antenna sizes are as follows:



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:

MIMO:Band for Antenna0&1&2		peak gain(dBi)
wifi2.4G MIMO	2412MHz	-3.2
	2437MHz	-2.9

	2462MHz	-2.9
wifi5G MIMO	5.15~5.25 GHz	1.1
	5.25~5.35 GHz	1.2
	5.47~5.725 GHz	1.6
	5.725~5.85 GHz	1.3

SISO: 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

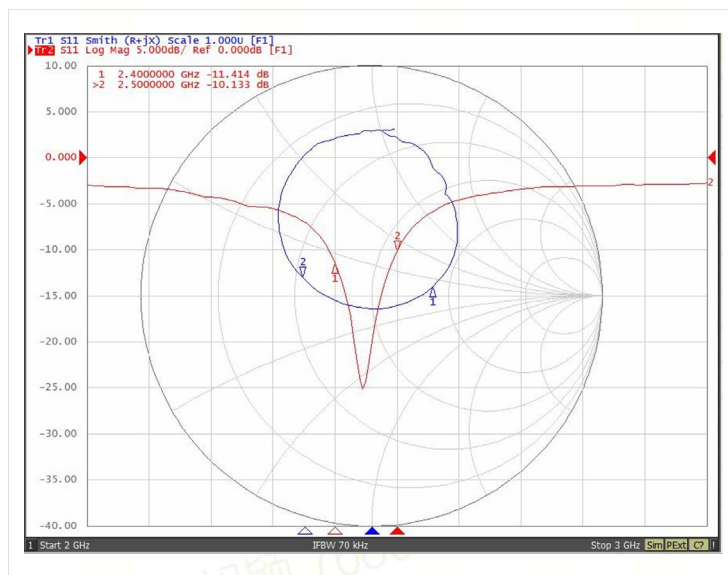
SISO:Band for Antenna1		peak gain(dBi)
wifi5G	5.15~5.25 GHz	1.6
	5.25~5.35 GHz	1.7

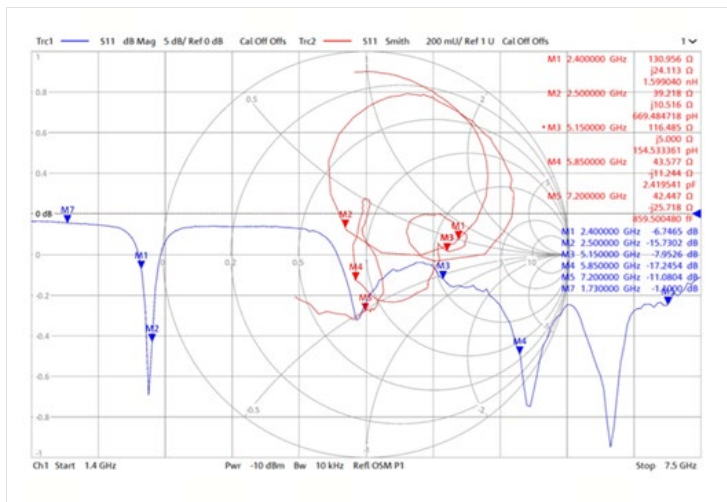
wifi6E	5.47~5.725 GHz	1.7
	5.725~5.85 GHz	1.4
	B5	1.4
	B6	0.8
	B7	0.9
	B8	1

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

S11:

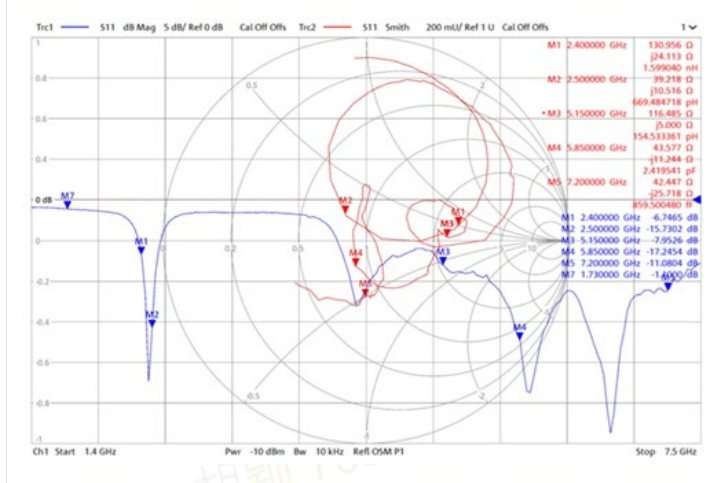
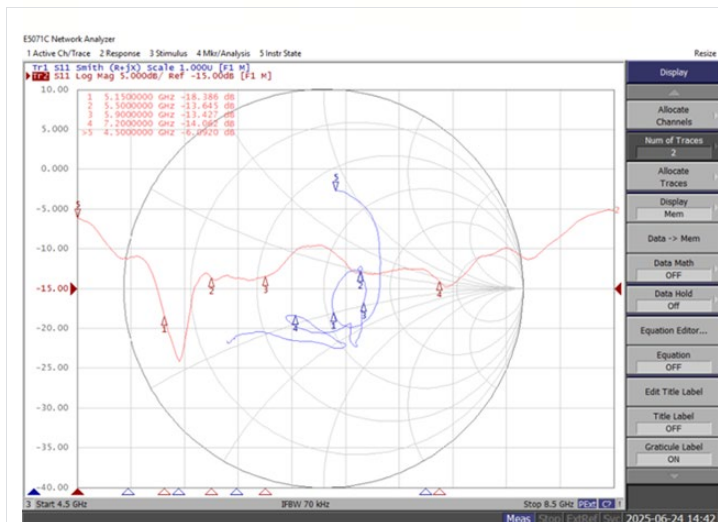
2.4G MIMO ANT0 +ANT2





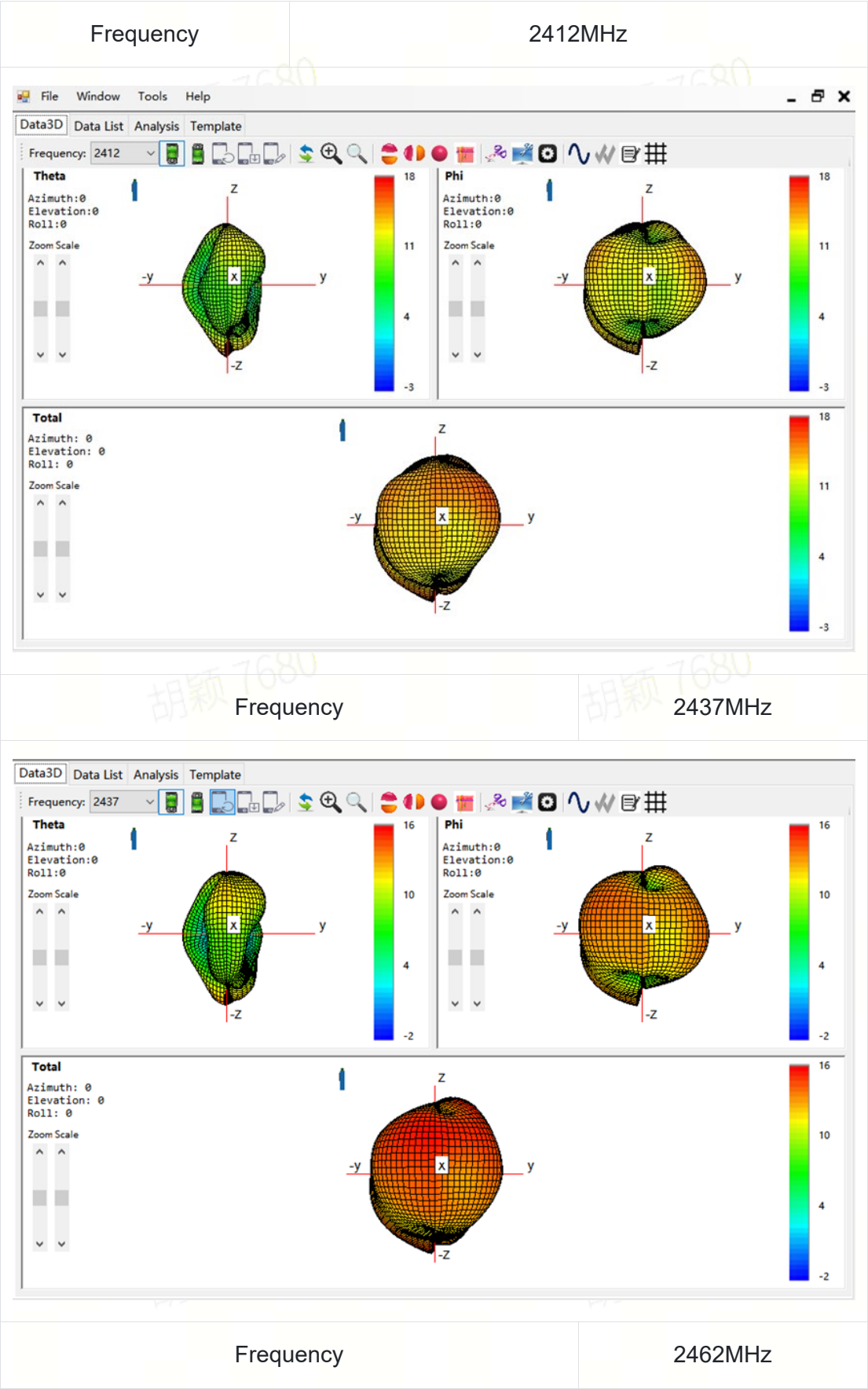
5G MIMO ANT0 +ANT1

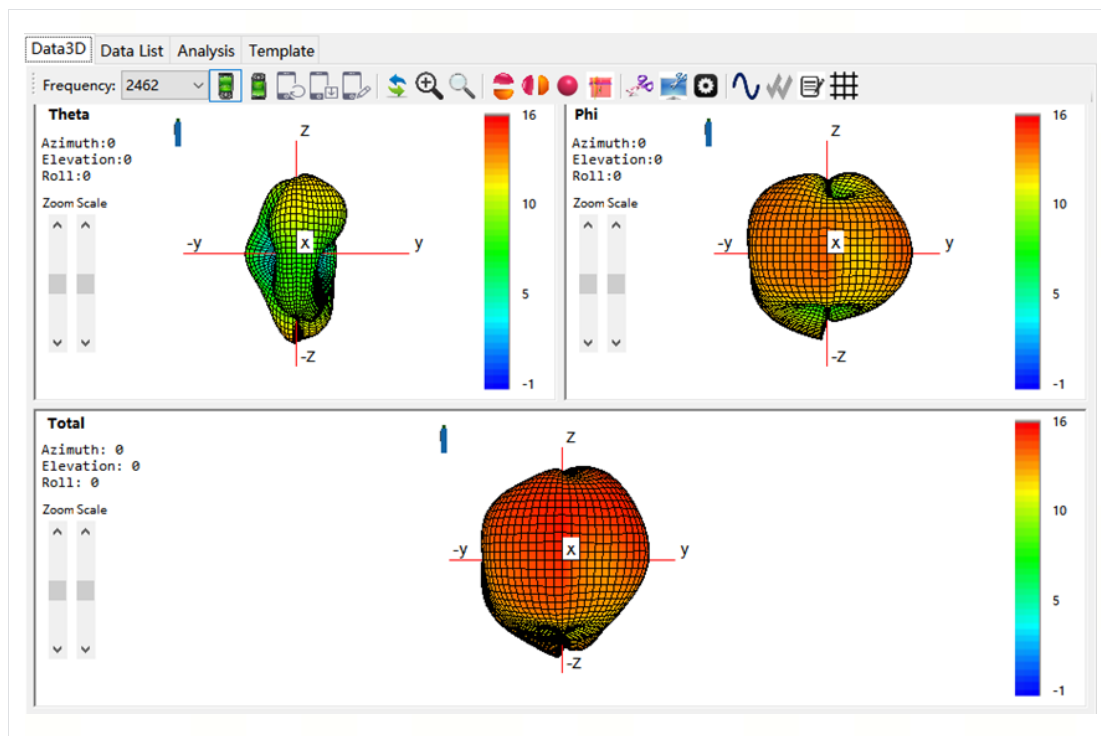
S11



Radiation pattern:

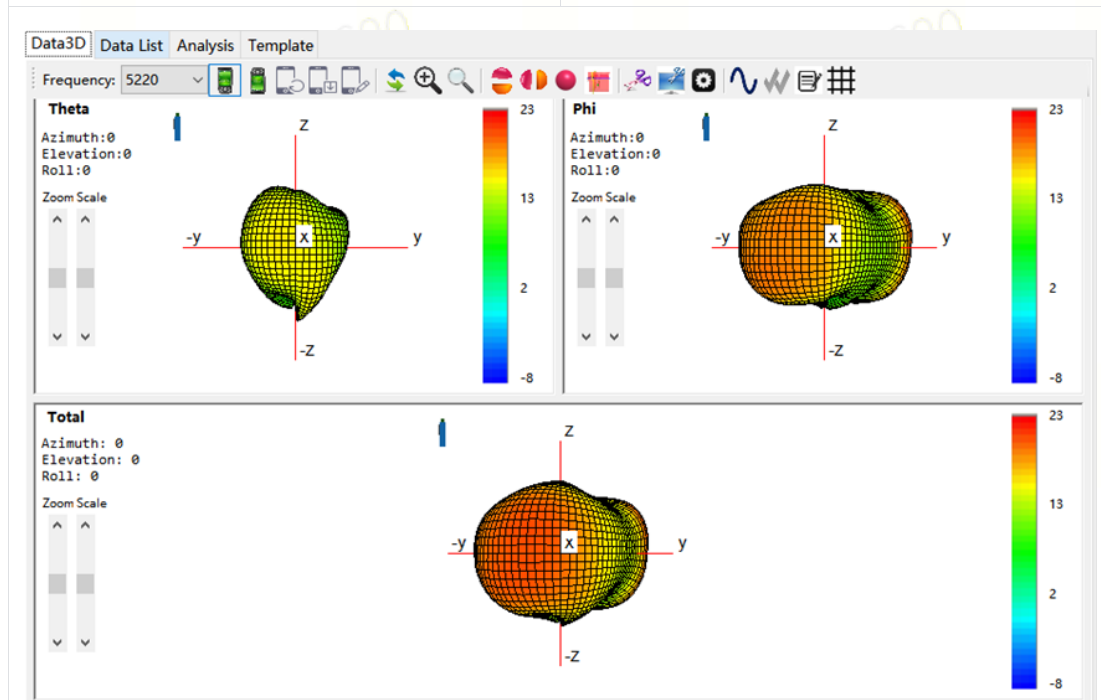
MIMO:





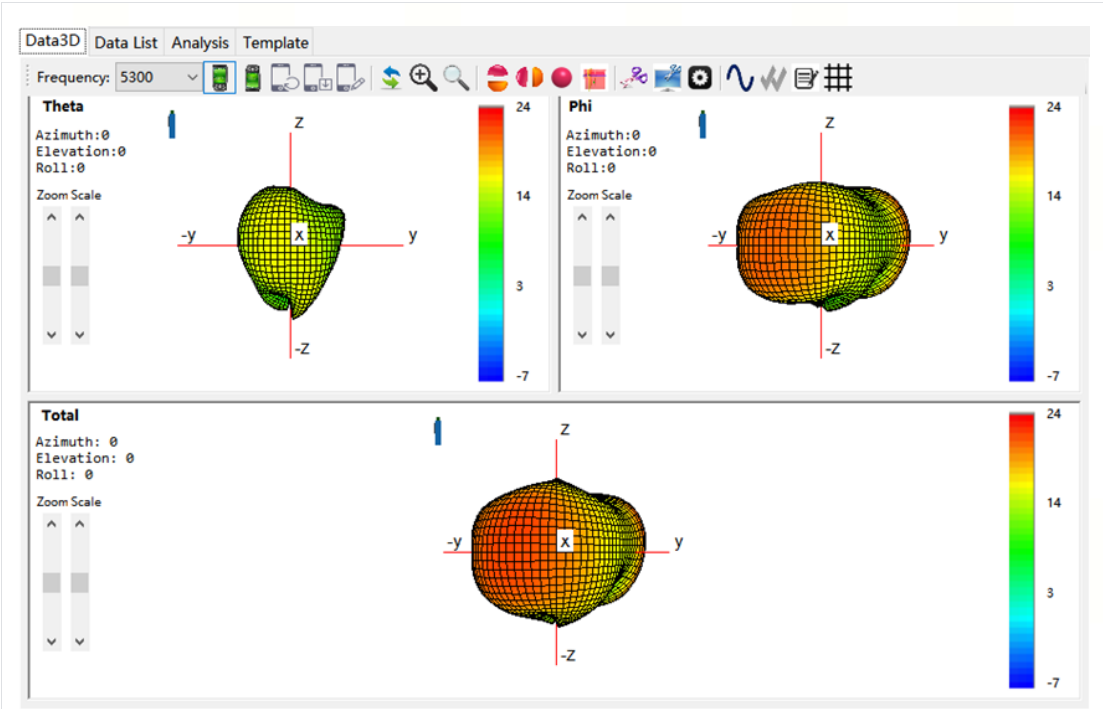
Frequency

5200MHz



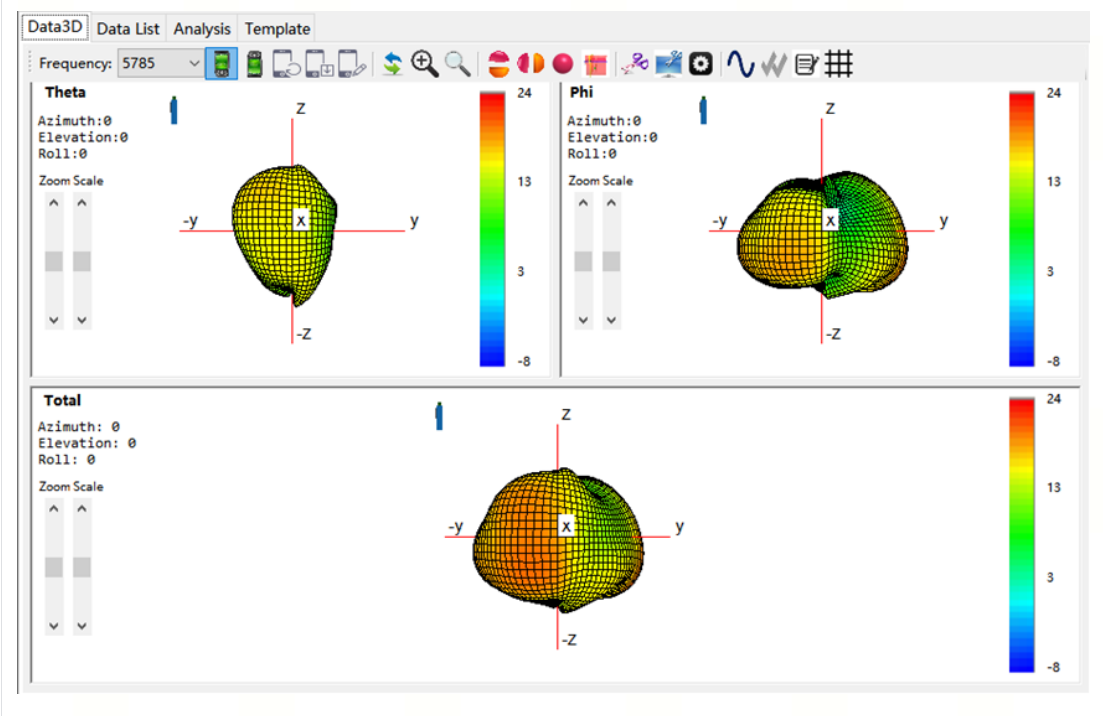
Frequency

5300MHz



Frequency

5785MHz

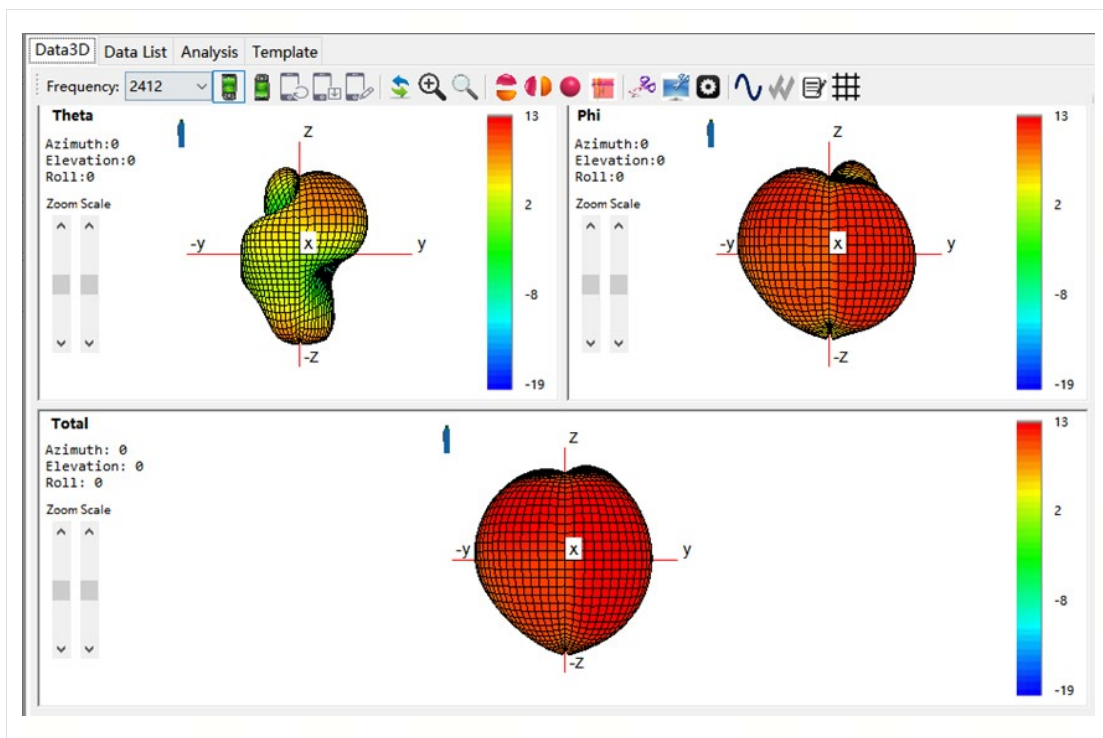


ANT0 SISO:2.4G+5G CHAIN1

Radiation pattern:

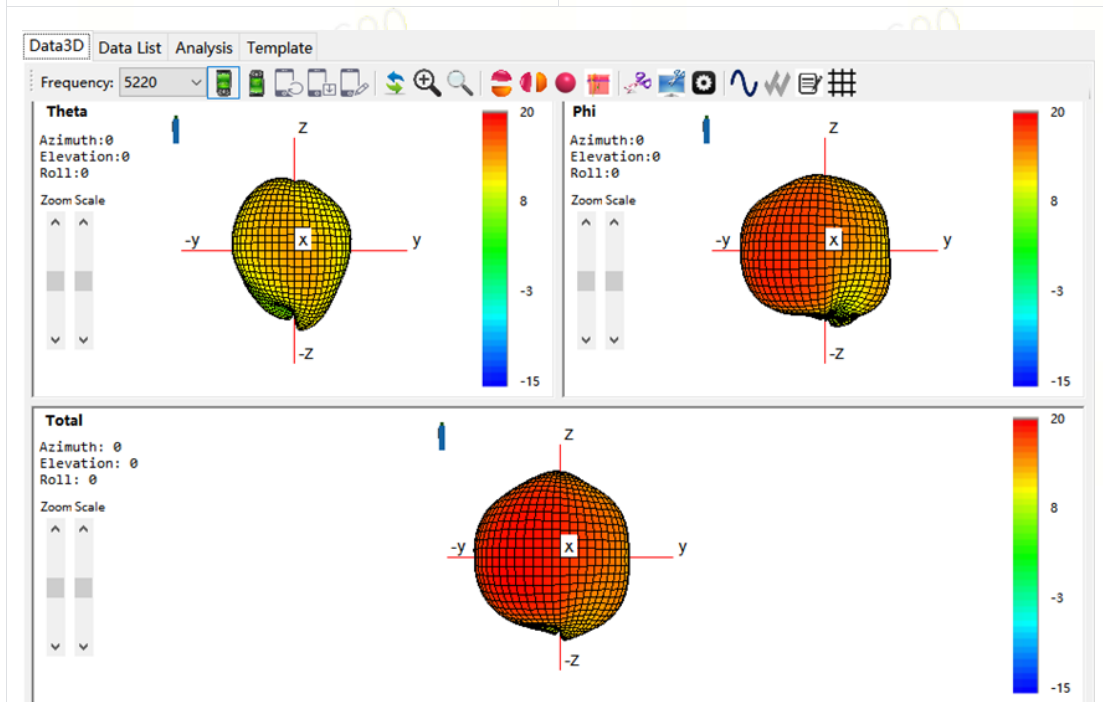
Frequency

2412MHz



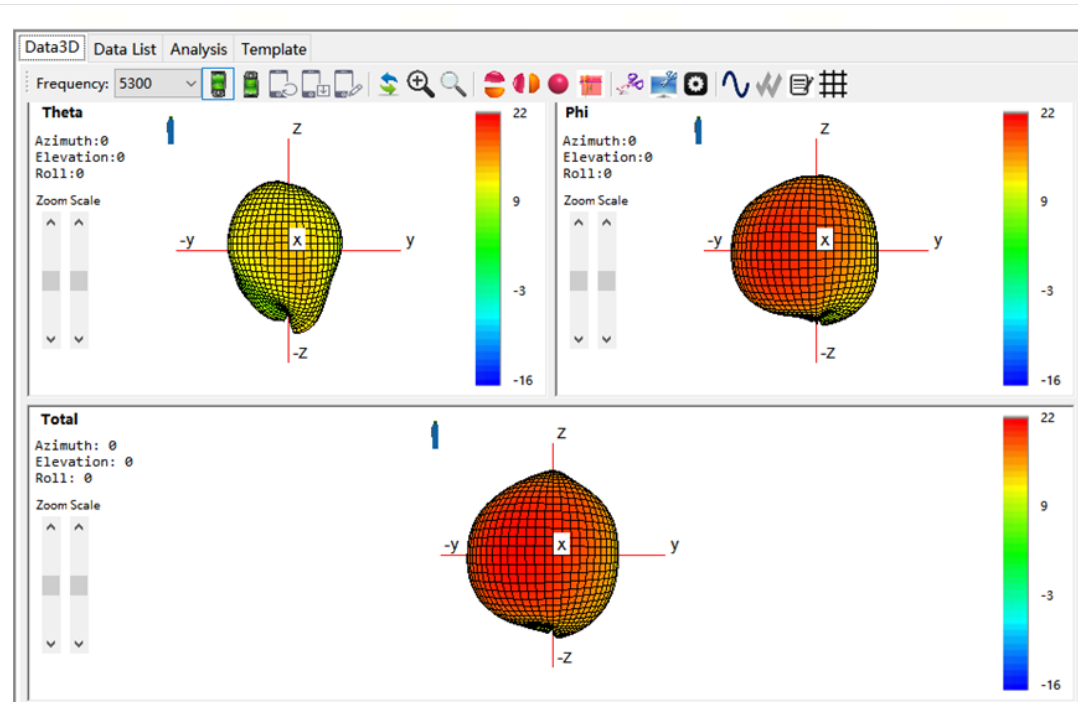
Frequency

5220MHz



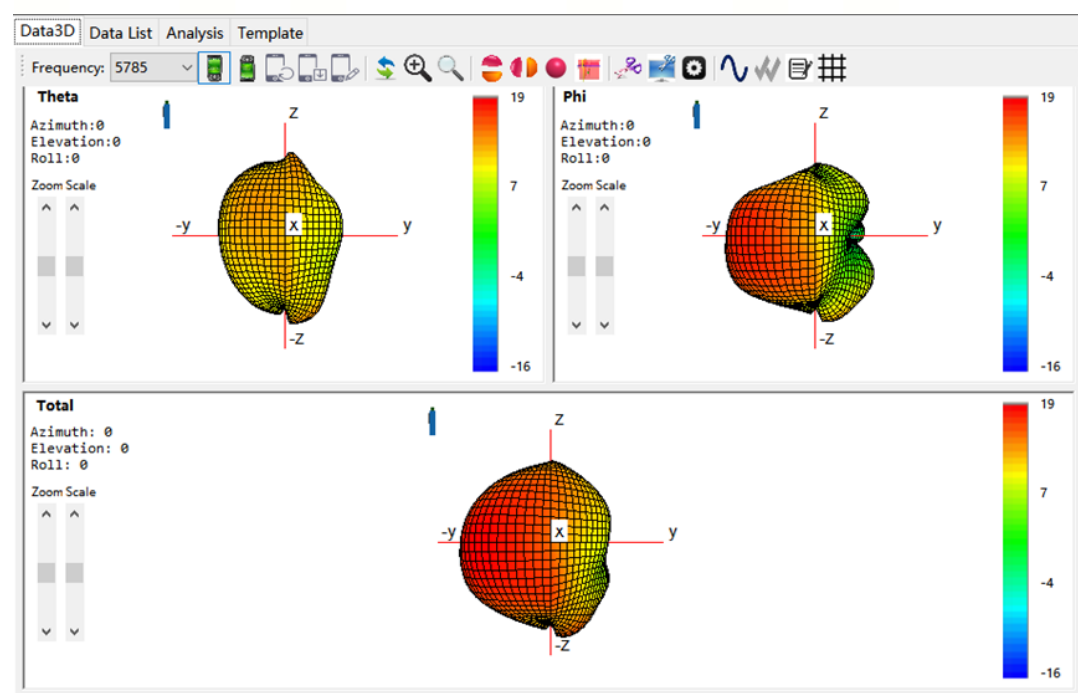
Frequency

5300MHz



Frequency

5785MHz

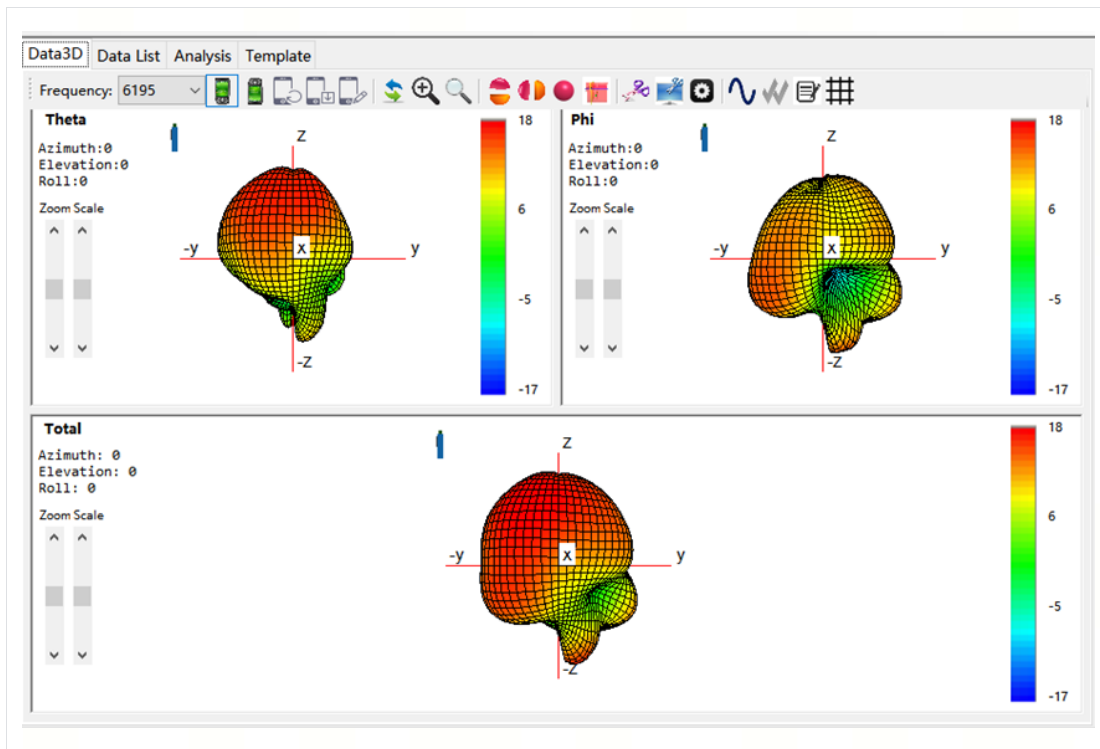


Frequency

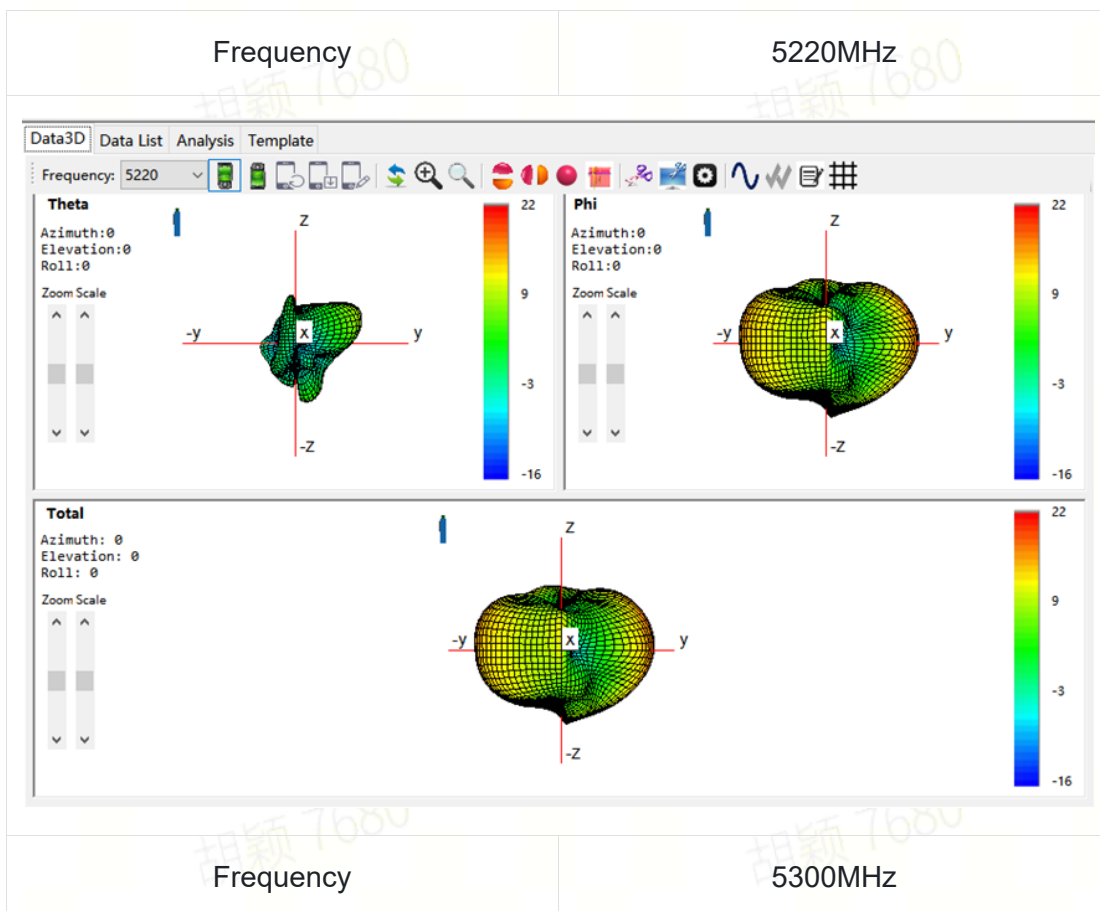
6e

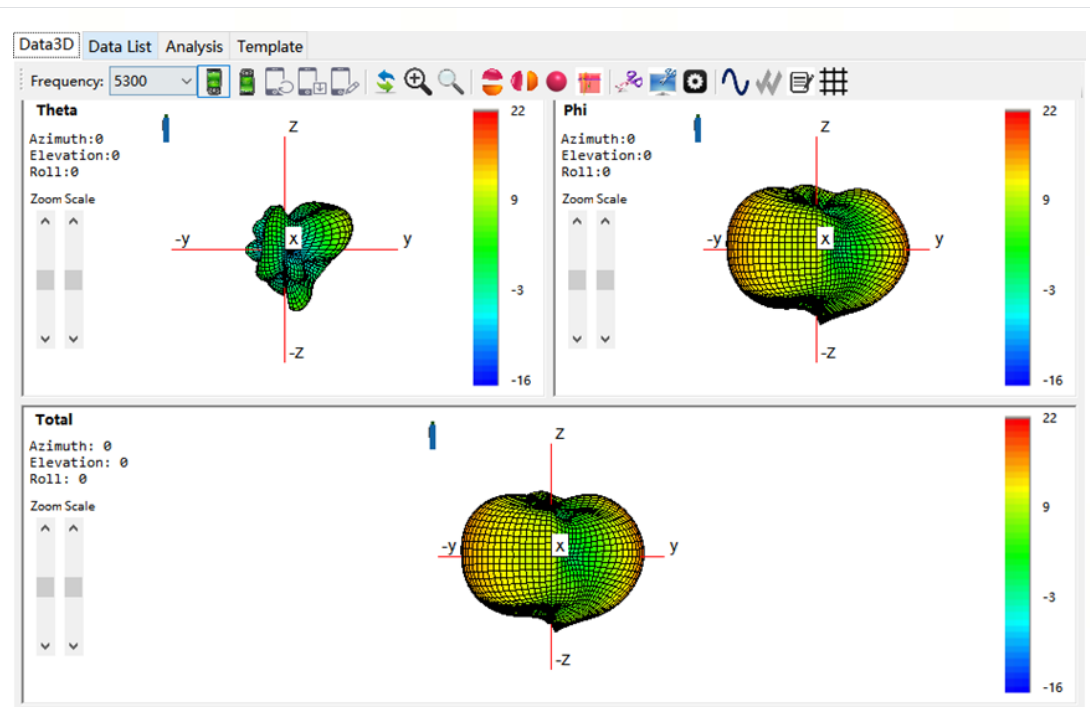
胡颖 7680

胡颖 7680



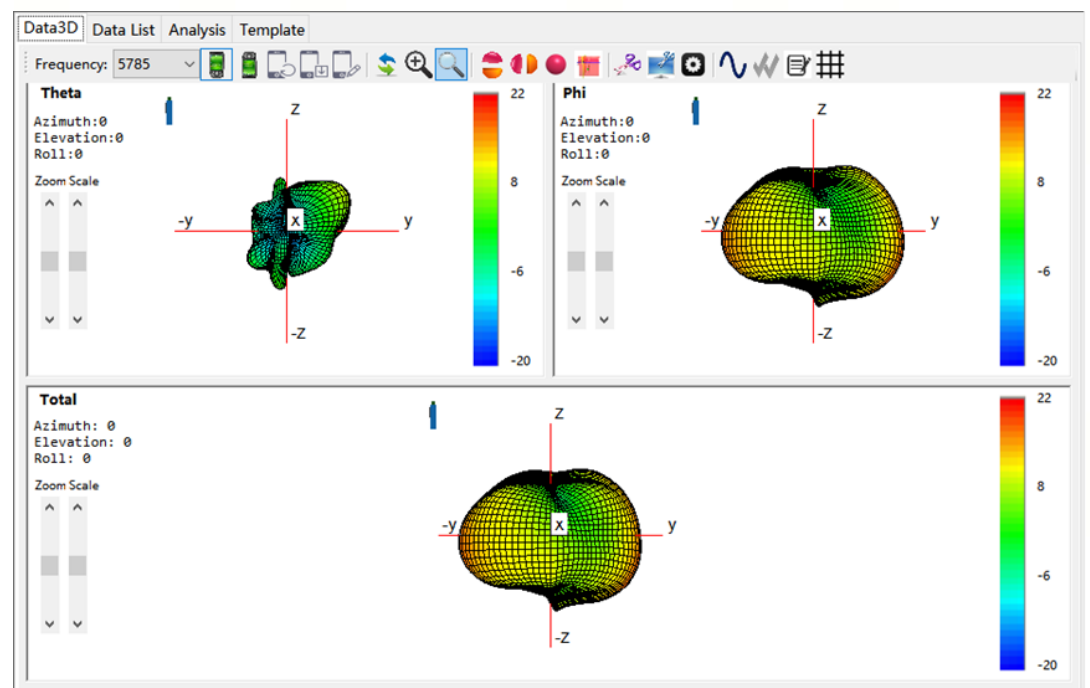
ANT1 SISO:5G CHAIN0





Frequency

5785MHz

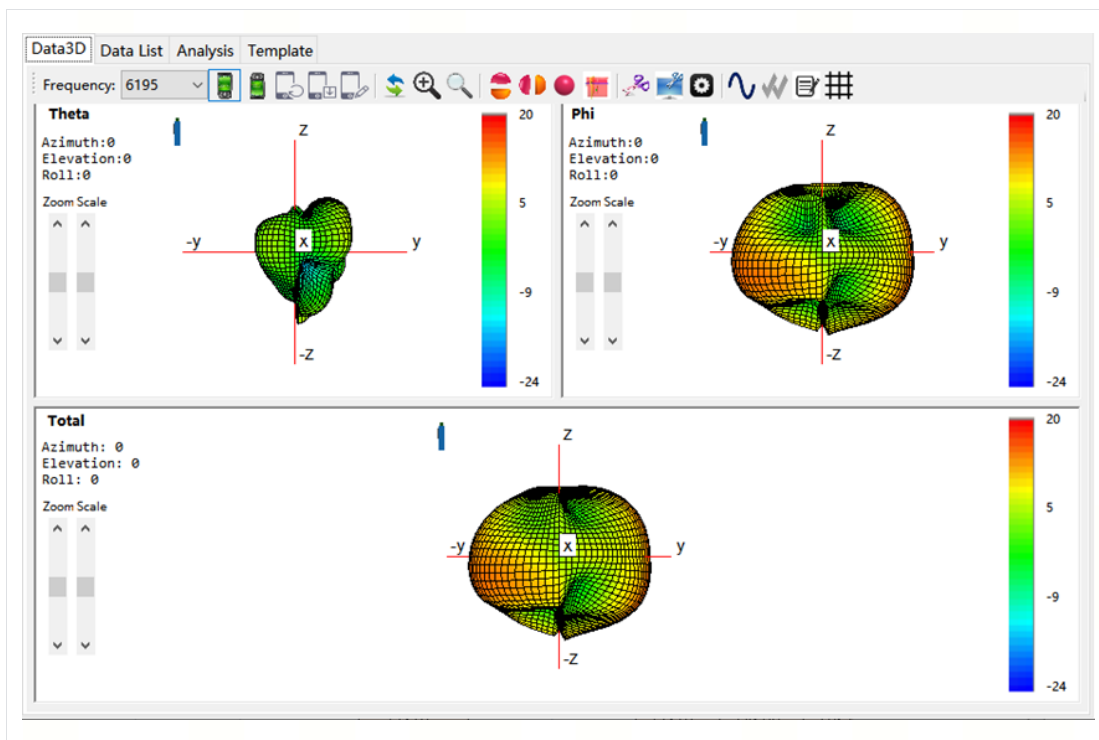


Frequency

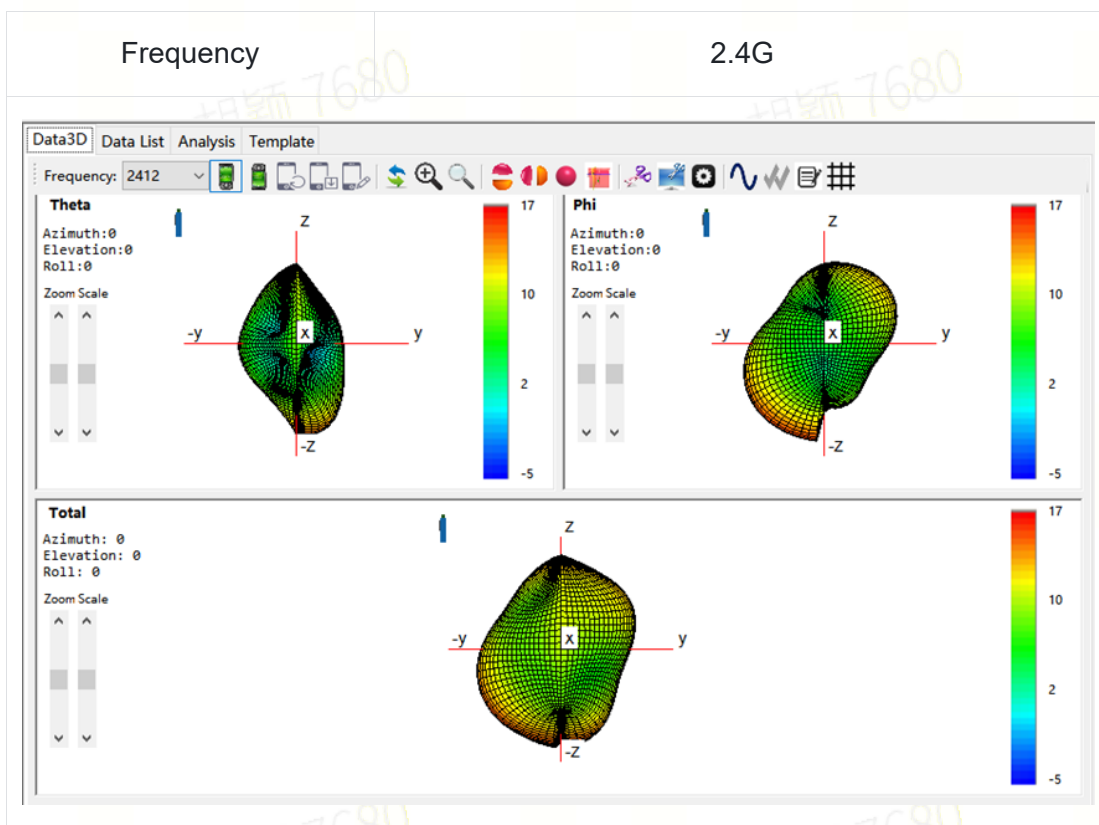
6e

胡颖 7680

胡颖 7680



ANT2 SISO:2.4G CHAIN0

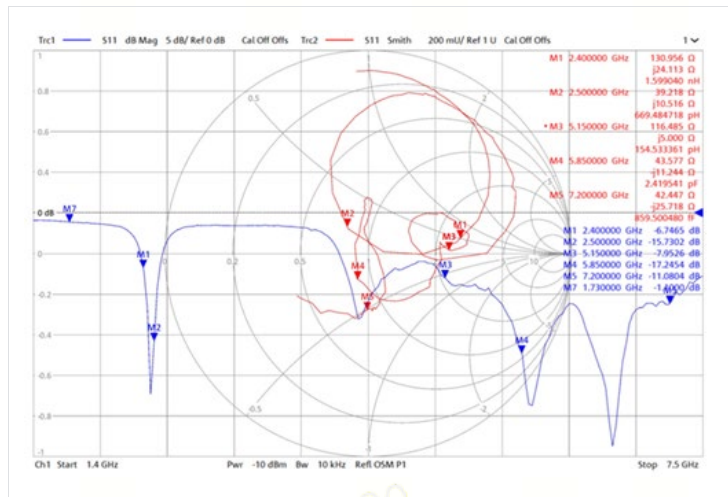


BT:

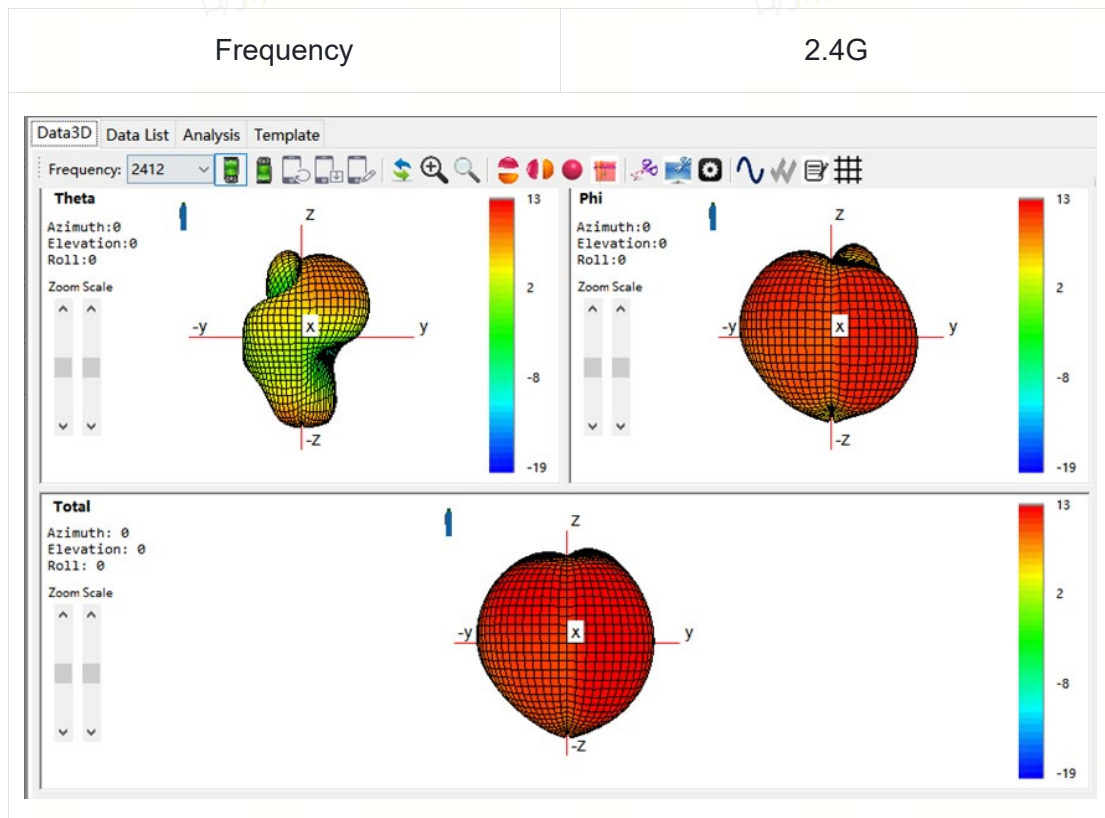
BT ANT0

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



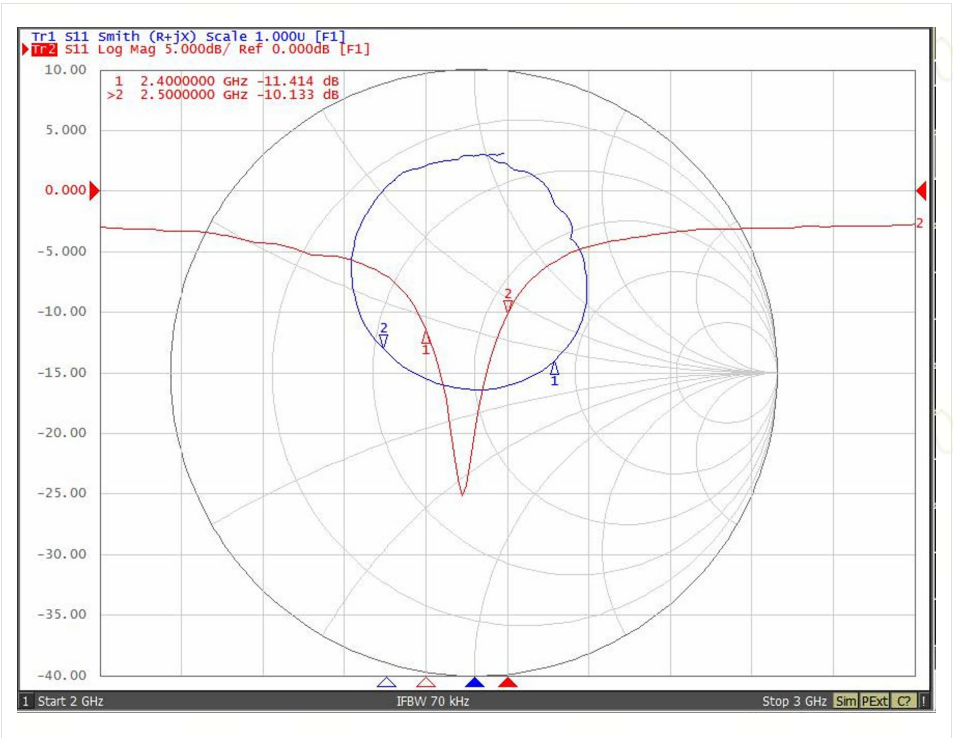
Radiation pattern:



BT ANT2

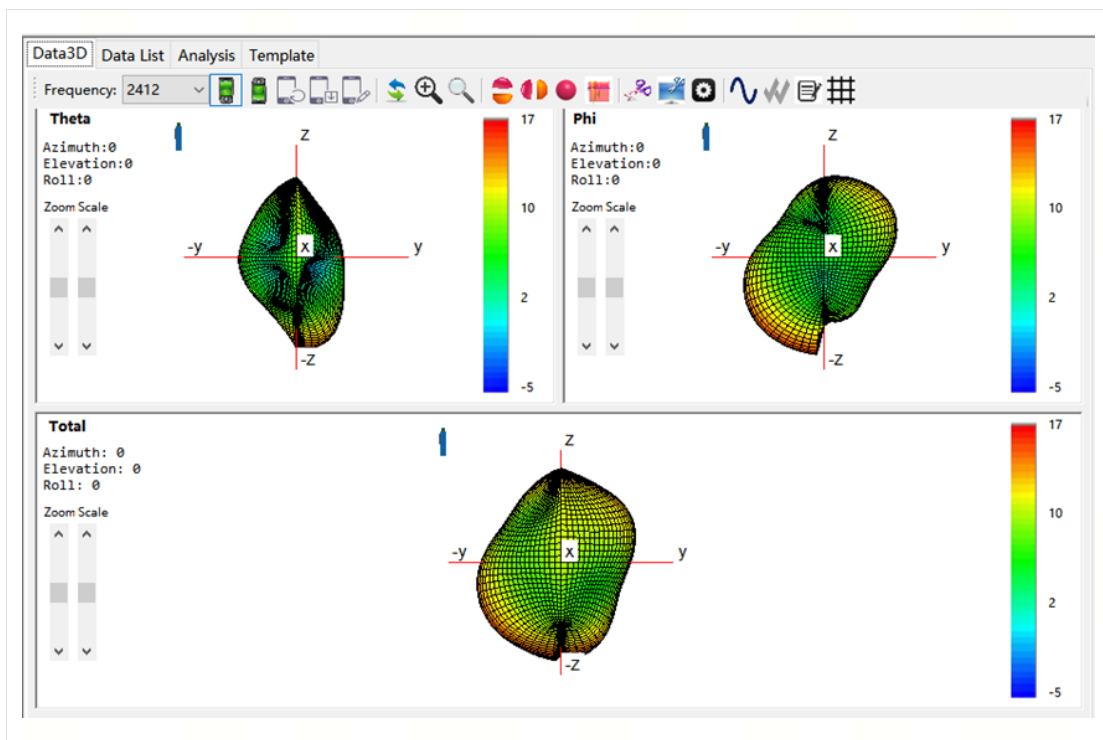
Band for Antenna 2		Effi.(dBi)	peak gain(dBi)
BT	2402MHz	-7.4	-2.2
	2440MHz	-7.1	-2.2
	2480MHz	-6.7	-2.3

S11



Radiation pattern:

Frequency	2.4G
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3. Main Test Instruments

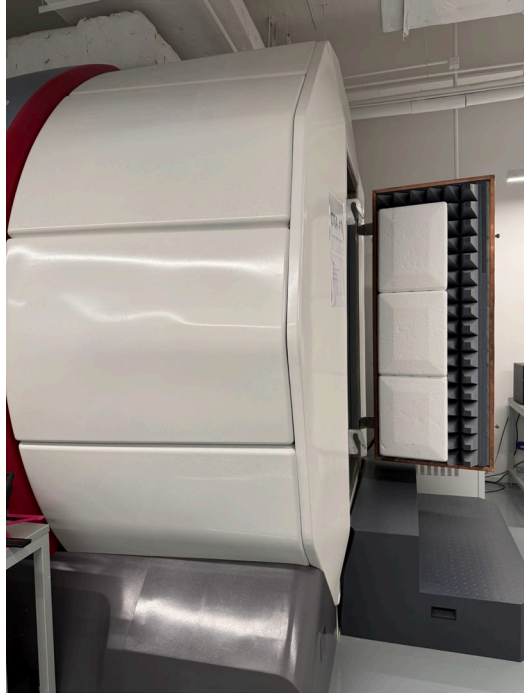
Name	Manufacturer	Model name	Serial Number	Cal., Date	Exp., Date
E5071C	KEYSIGHT	E5071C	MY46733949	2025/04/01	2026/4/01
RBS CMX500	R&S/罗德	RBS CMX500	101186	2025/04/01	2026/4/01

Test software: GTS MaxSign-RayZone2800C_Z

Test Engineer Signature:

徐远峰

Antenna test environment



End of Test Report

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