



Antenna Performance Description

Applicant: Xiaomi Communications Co., Ltd

Product description: Mobile Phone

Model Name: P7L

FCC ID: 2510DRA23L

Test date: 2025/08/07



1. Antenna information

Antenna	Pattern	Antenna Type	Manufacturer	Address/Test party of Antenna gain
ANT0	Metal Frame	PIFA Antenna	AAC Technologies Holdings Inc	No.3 Changcao Road, Wujin District, Changzhou City, Jiangsu Province
ANT1	Metal Frame	PIFA Antenna	KunShan Innowave Communication Technology Co, Ltd.	Building H, No. 55, Shengchuang Road, Yushan Town, Kunshan City, Jiangsu Province, China
ANT3	Metal Frame	PIFA Antenna	KunShan Innowave Communication Technology Co, Ltd.	Building H, No. 55, Shengchuang Road, Yushan Town, Kunshan City, Jiangsu Province, China
ANT4	Metal Frame	PIFA Antenna	KunShan Innowave Communication Technology Co, Ltd.	Building H, No. 55, Shengchuang Road, Yushan Town, Kunshan City, Jiangsu Province, China



2. Test data

Bands for Antenna 0	ANT0	
	Avg.Effi.(dB)	Peak gain(dBi)
B28/B12/B17	-7.2	-4.6
B13	-8.7	-5.4
B5/B18/B19/B26/WB5/WB6/WB19/GS M850	-8.2	-5.5
B8/WB8/GSM900	-8.8	-5.9
B1/WB1	-6	-3.4
B2/WB2/PCS	-6.3	-3.9
B3/4/66/WB4/DCS	-5.8	-2.4
B40	-5.1	-1.3
B7/41	-6	-1.7
B38	-6.2	-2.7

Bands for Antenna 1	ANT1	
	Avg.Effi.(dB)	Peak gain(dBi)
B28/B12/B17	-11	-6.6
B13	-11	-6.8
B5/B18/B19/B26/WB5/WB6/WB19/ GSM850	-10.6	-6.9
B8/WB8/GSM900	-10.4	-6.6
B1/WB1	-5.7	-0.7
B2/WB2/PCS	-6.7	-1.2
B3/4/66/WB4/DCS	-7.7	-0.5
B40	-7	-2.1
B7	-7	-2.1
B38	-7.1	-2.9
B41	-7.1	-2.1



Bands for Antenna 3	ANT3	
	Avg.Effi.(dB)	Peak gain(dBi)
GPS	-4.8	/
WIFI 5G 5.15~5.25GHz	-6.0	-1.4
WIFI 5G 5.25~5.35GHz	-5.9	-1.3
WIFI 5G 5.47~5.725GHz	-5.8	-1.8
WIFI 5G 5.725~5.85GHz	-5.9	-1.5

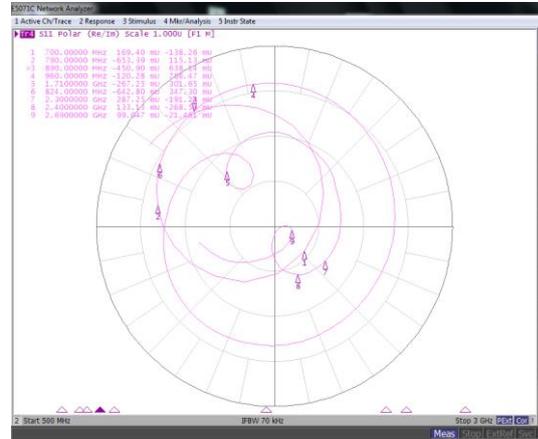
Bands for Antenna 4	ANT4	
	Avg.Effi.(dB)	Peak gain(dBi)
WIFI 2.4G/BT	-4.7	-0.2



ANTO

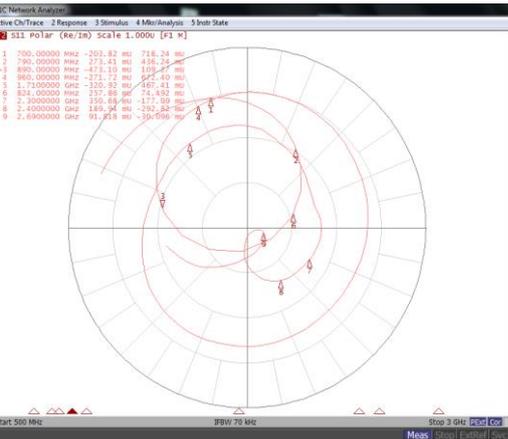
B1/B2/B3/B4/B7/B38/B40/B41/B66/WB1/2/4/GSM DCS/PCS

S11/SMITH



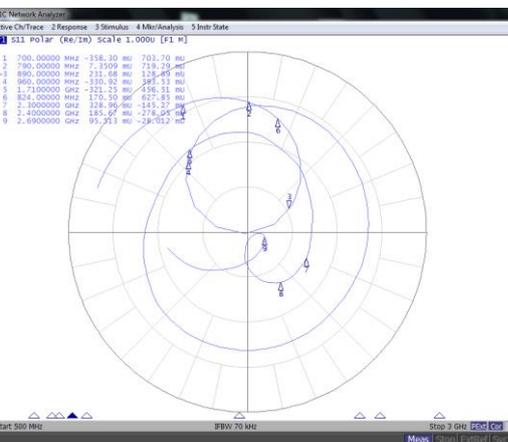
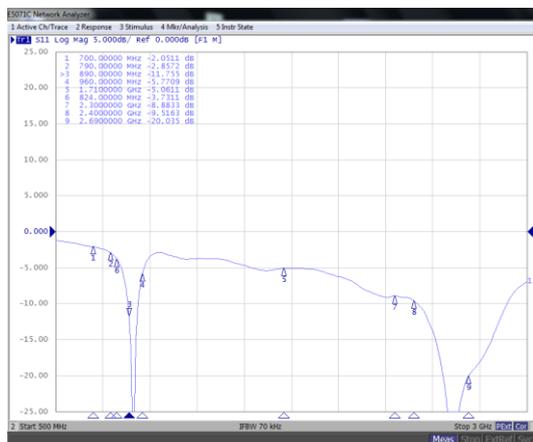
B5/B18/B19/B26/WB5/WB6/WB19/GSM850

S11/SMITH



B8/WB8/GSM900

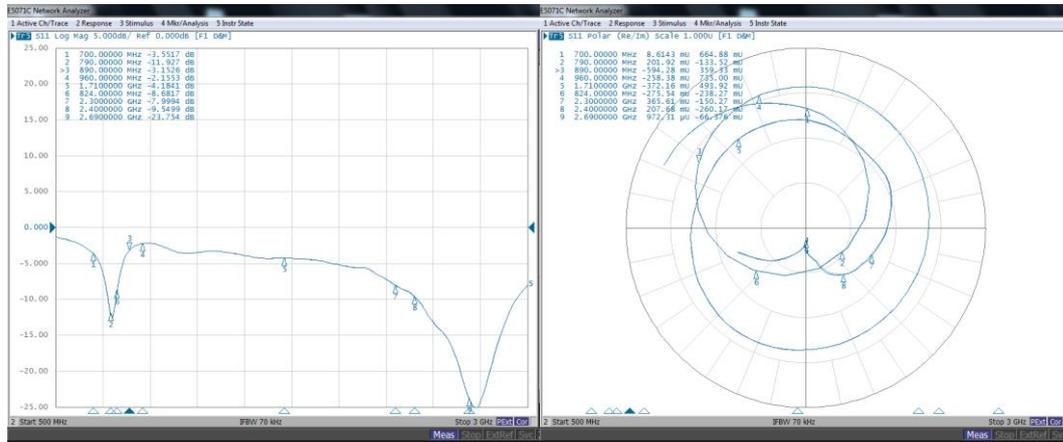
S11/SMITH





B13

S11/SMITH



B28

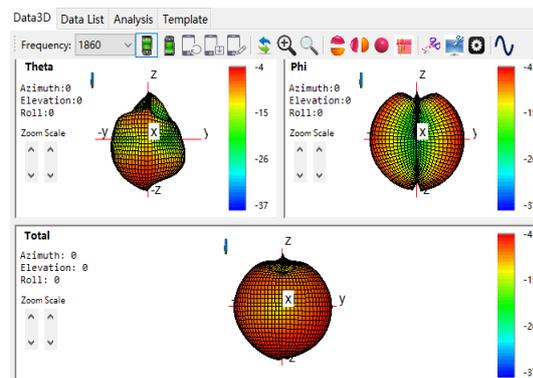
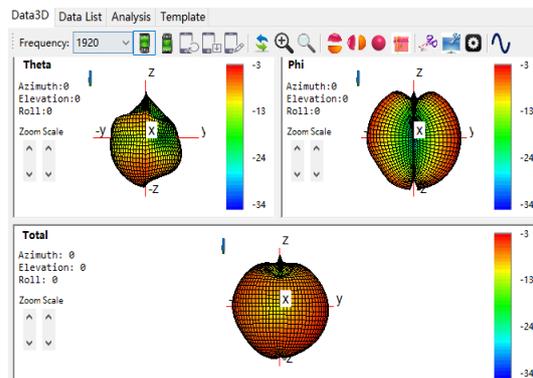
S11/SMITH



Peak gain

B1

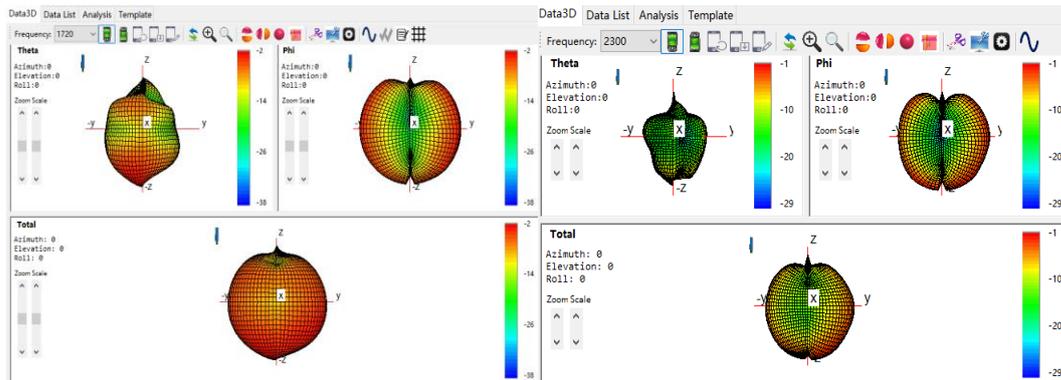
B2/WB2/PCS





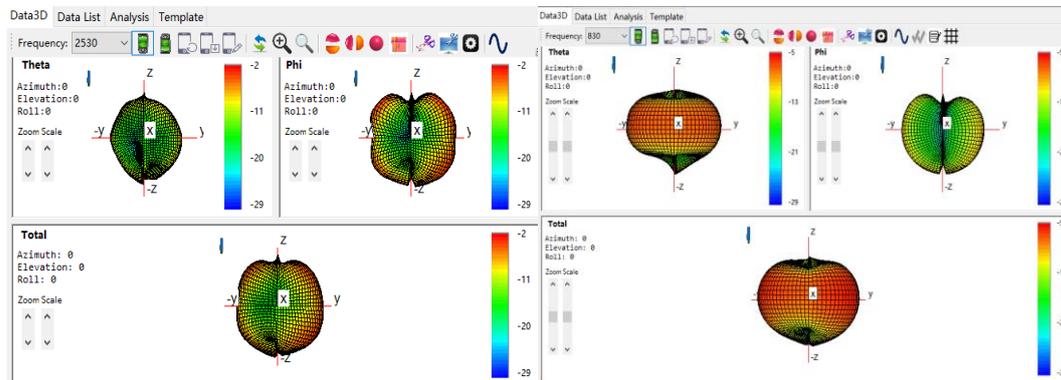
B3/B4/B66 /WB4/DCS

B40



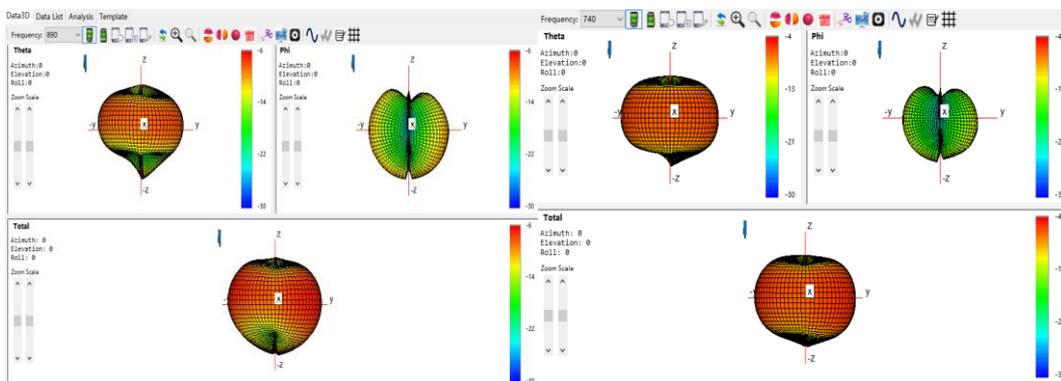
B7/B41

B5/19/18/26/ WB5/6/19/GSM850



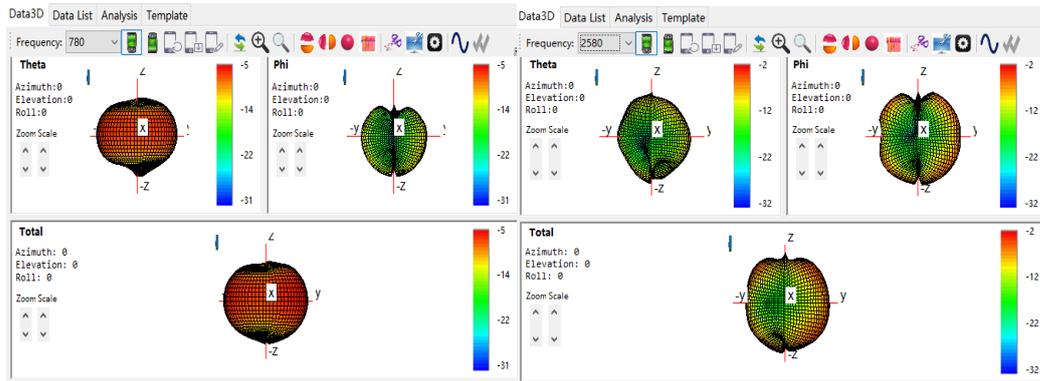
B8 /WB8/GSM900

B13



B28/B12/B17

B38

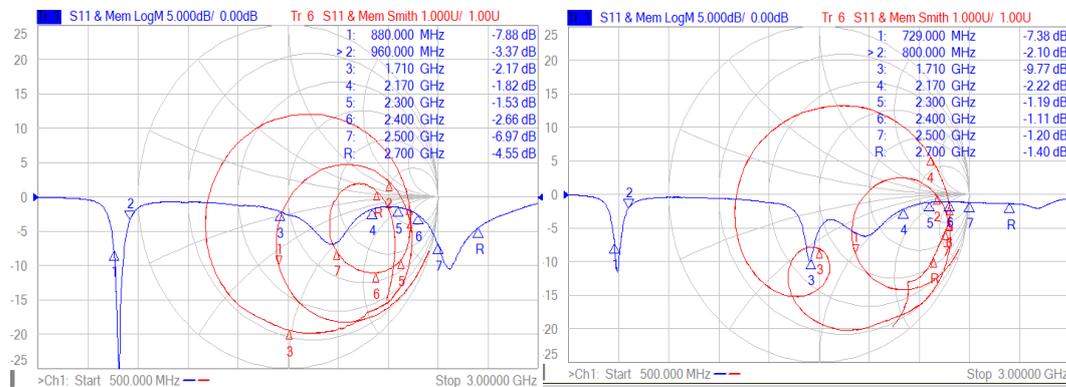


ANT1

B8/7/B38/B41/WB8/GSM900

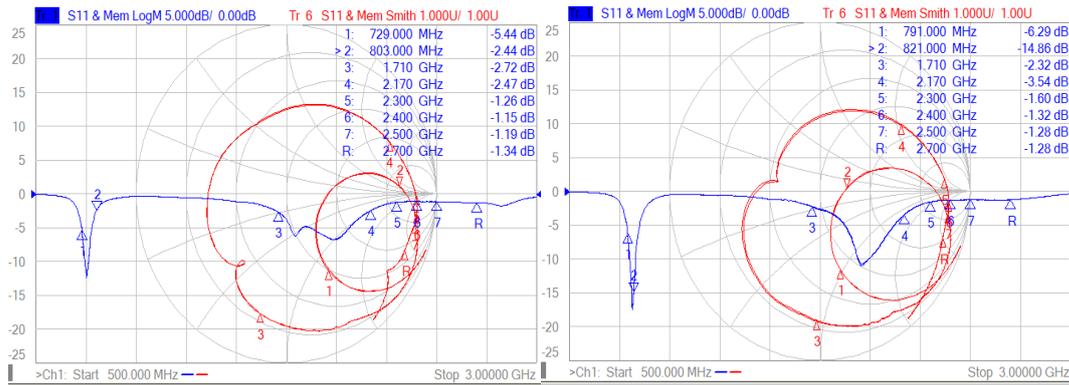
B3/4/66/12/17/WB4/DCS

S11&SMITH

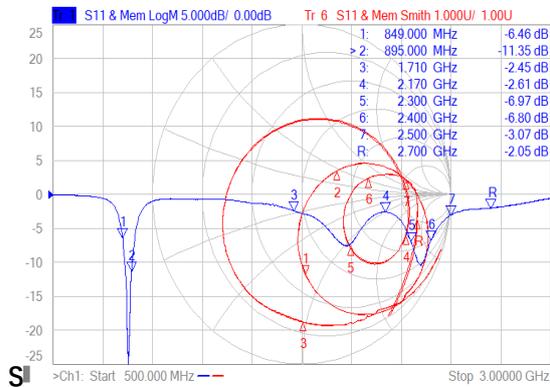


B28/13

B1/2/WB1/WB2/PCS



B5/18/19/26/40/WB5/6/19/GSM850

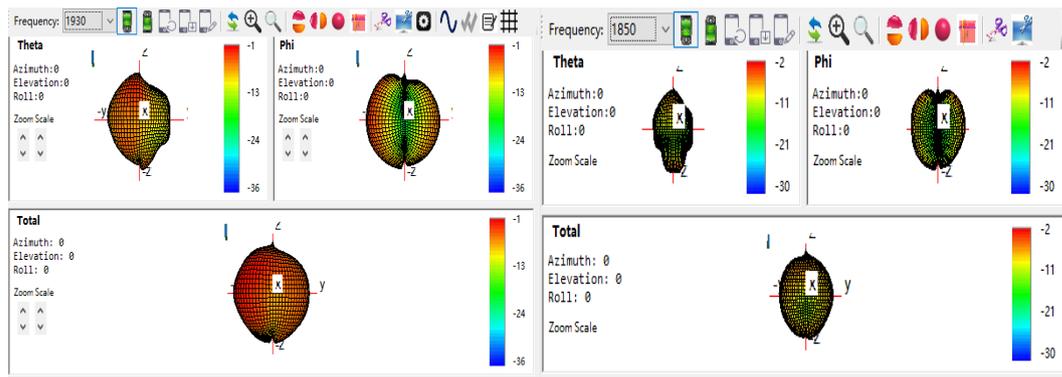


S

Peak gain

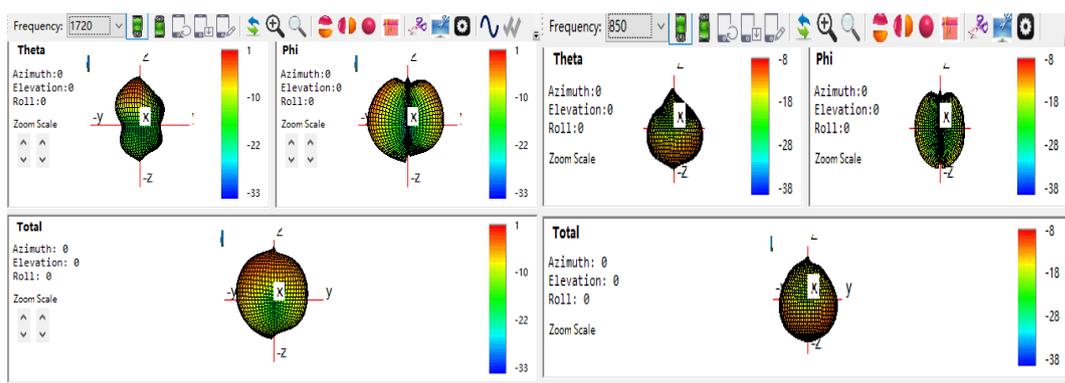
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B2/WB2/PCS

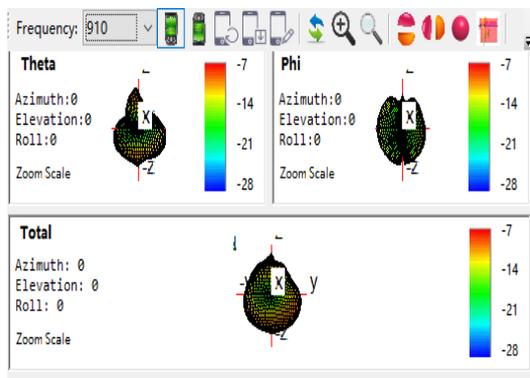


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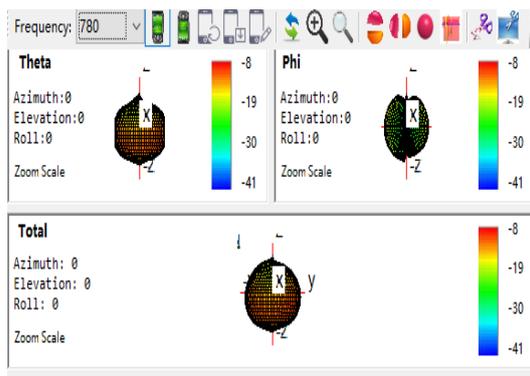
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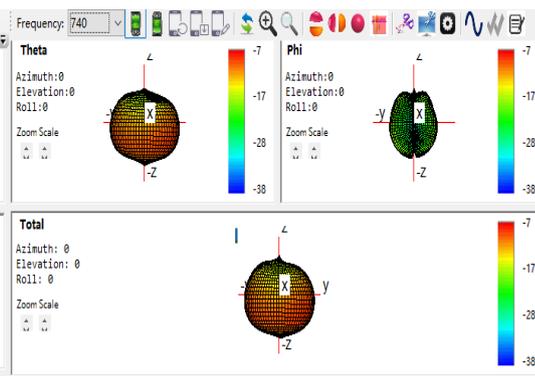
B8/WB8/GSM900



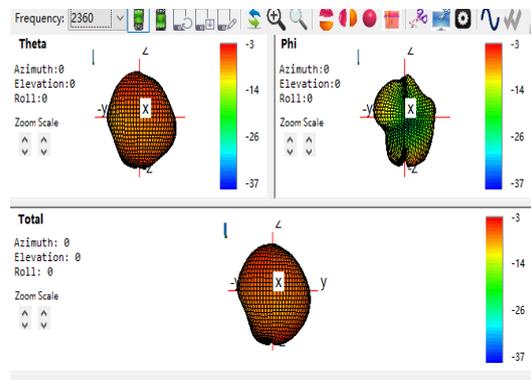
B13



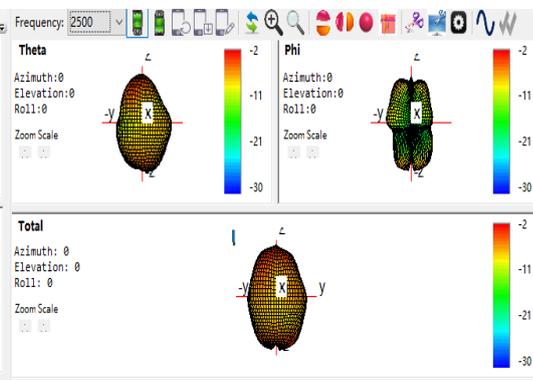
B28/B12/B17



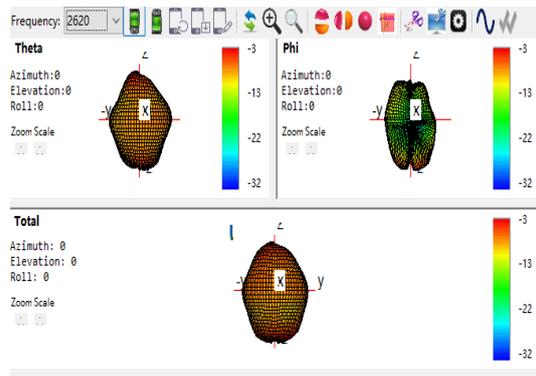
B40



B7



B38/B41

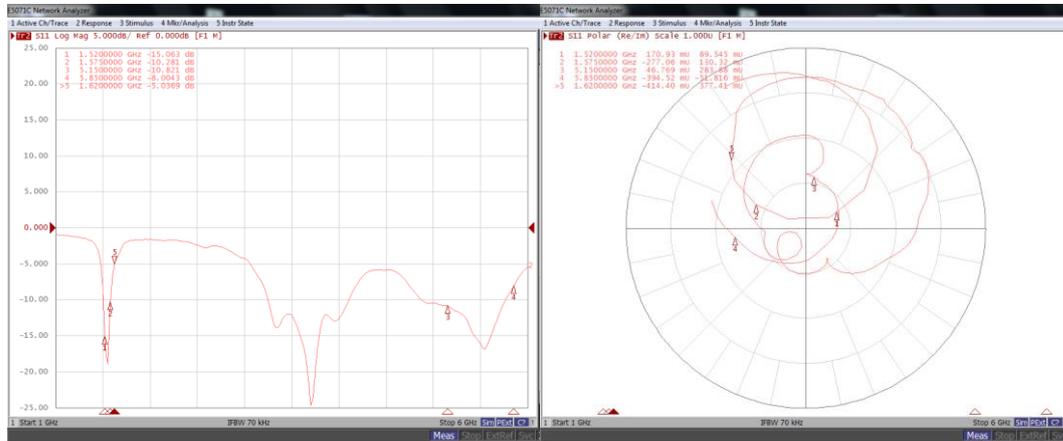




ANT3

GPS/WIFI5G

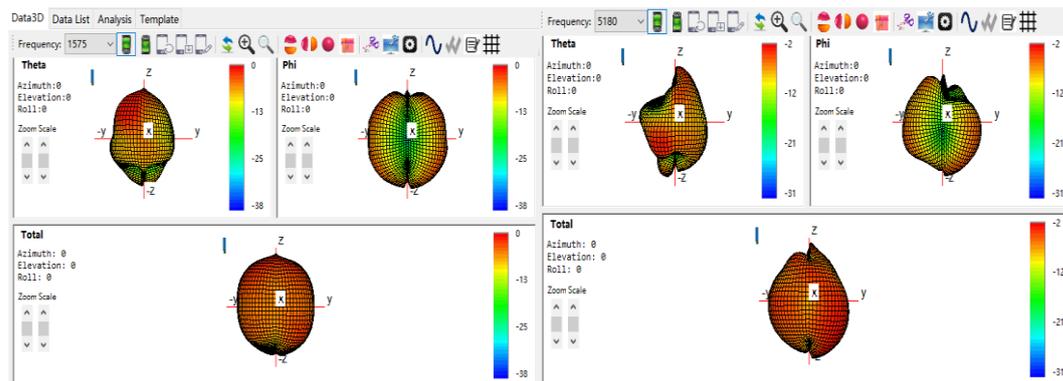
S11&SMITH



Peak gain

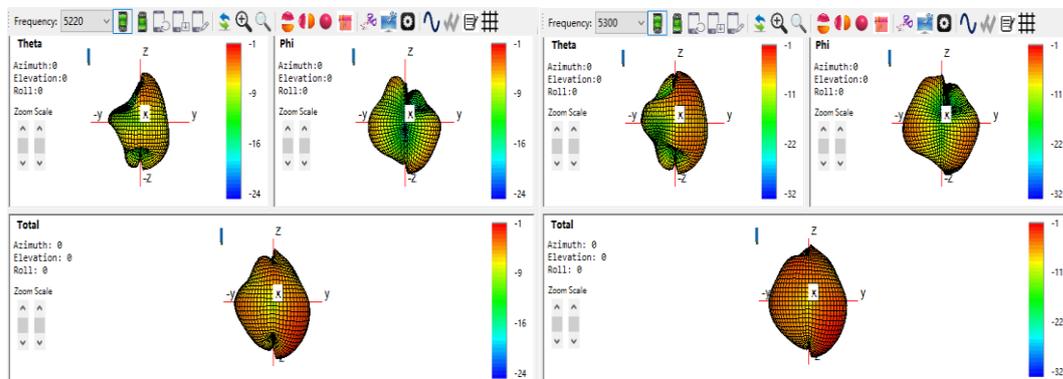
1.575GHZ

5.18GHZ



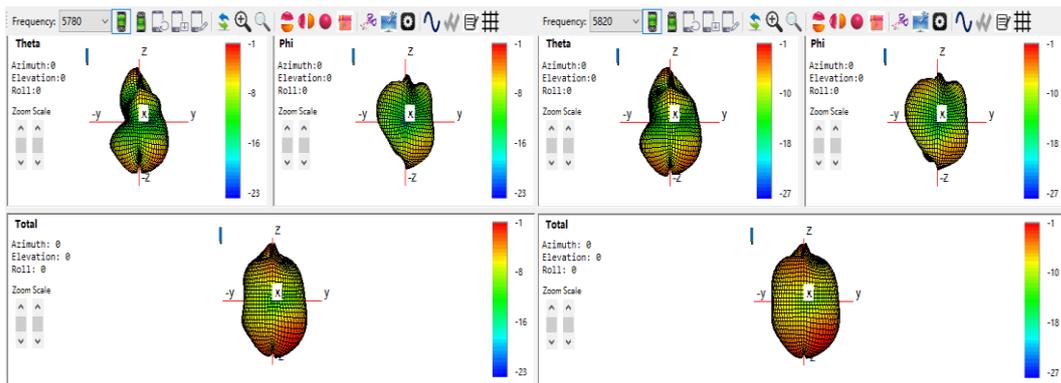
5.22GHZ

5.33GHZ



5.78GHZ

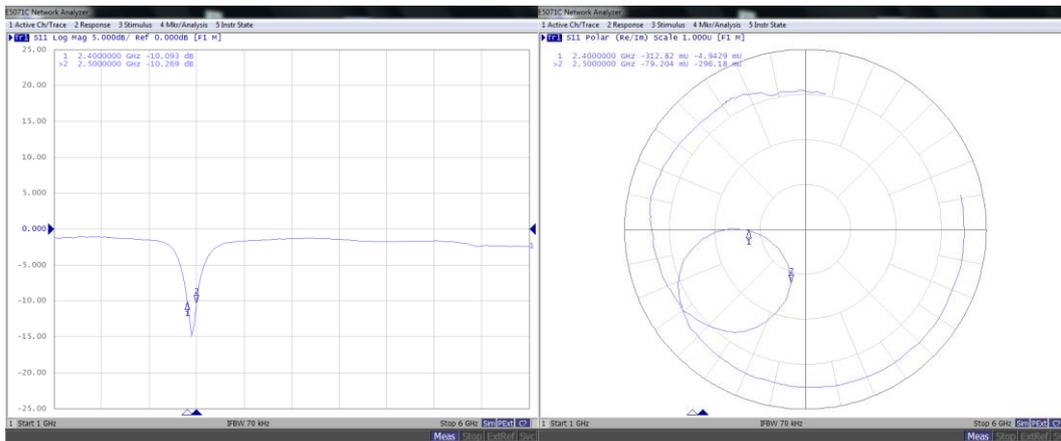
5.82GHZ



ANT4

WIFI 2.4G/BT

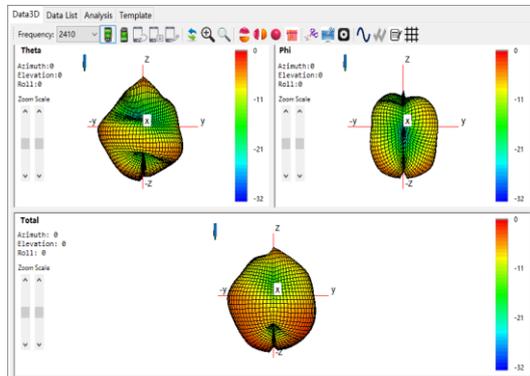
S11&SMITH



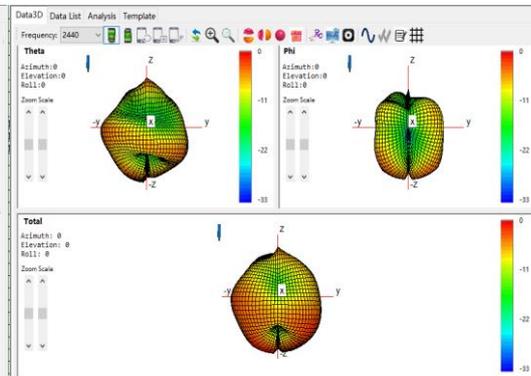


Peak gain

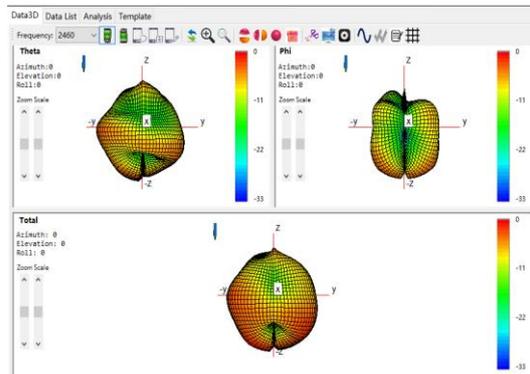
WIFI 2.4G/BT
2.41GHZ



2.44GHZ



2.46GHZ



3. Main Test Instruments

Name	Manufacturer	Model name	Serial Number	Cal., Date	Exp., Date
Test darkroom	General Teat +Agilent	GTS2800+E 5071C	CT1012026 0B5044	2024.10.15	2025.10.14

4. Test Site

KunShan Innowave Communication Technology Co.Ltd
Building H, No.55, Shengchuang Road, Yushan Town, Kunshan City, Jiangsu
Province, China

End of Test Report