

Antenna_Performance_Description_ 20230710_N16U

Antenna Performance Description

Applicant: Xiaomi Communications Co., Ltd

Product description: Mobile Phone

Model Name: 23090RA98G

FCC ID: 2AFZZRA98G

Test date: 2023/07/10

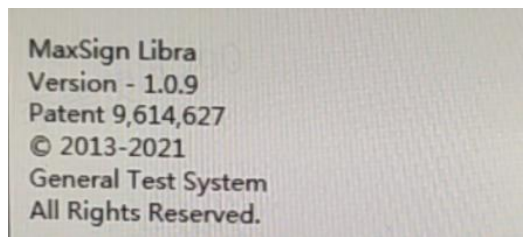
Tester:

赖敏

Antenna	Model Name	Antenna Pattern	Antenna Type	Manufacturer	Test party of Antenna gain
ANT9/10	N16U	Metal Frame	PIFA Antenna	Huizhou Winone Precision Technology Co.,Ltd. (Address: xinwanda Industrial Park, Dongpo Avenue, Yuanzhou Town, BOLUO County) TONGDA (Xiamen)TECHNOLOGY CO.,LTD. (No. 89 DingShan Middle Road, Dongfu Town, Haicang District, Xiamen City, Fujian Province, 361027, P.R.China)	BeiJing Innwave Communication Technology Co.,Ltd Luxshare Precision Industry Co., Ltd
ANT8/11	N16U	Metal Frame	PIFA Antenna	Huizhou Winone Precision Technology Co.,Ltd. (Address: xinwanda Industrial Park, Dongpo Avenue, Yuanzhou Town, BOLUO County) TONGDA (Xiamen)TECHNOLOGY CO.,LTD. (No. 89 DingShan Middle Road, Dongfu Town, Haicang District, Xiamen City, Fujian Province, 361027, P.R.China)	BeiJing Innwave Communication Technology Co.,Ltd Luxshare Precision Industry Co., Ltd
NFC (41.44mm×32.29mm×0.21mm)	N16U	N/A	Coil Antenna	Shenzhen Deman electronic co., Ltd. (Sunlord Industrial Park,Guanlan Da Fu Yuan,Guanguang Road,Long Hua,Shenzhen)	N/A

Test instrument:GTS2800

Software version

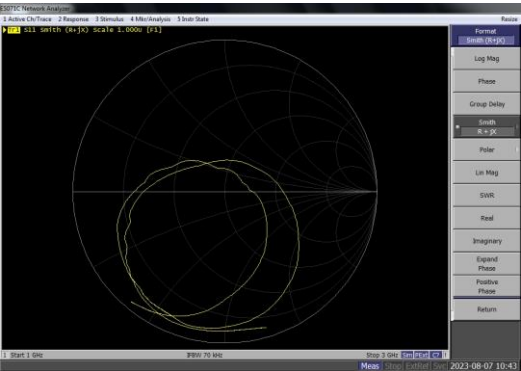
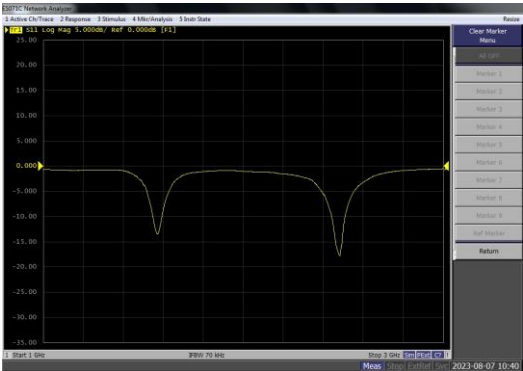


ANT9/10:

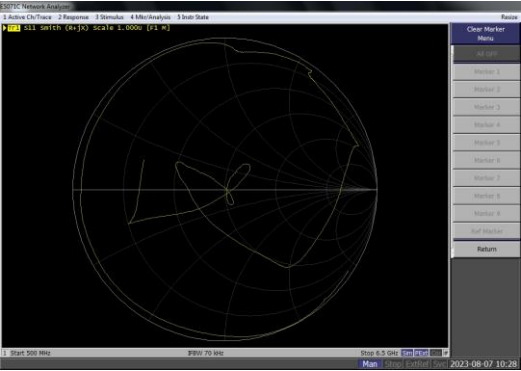
Band	ANT 9/10	
	Effi.(dBi)	peak gain(dBi)
2.4G	-7.8	-3.3
5G (5.15-5.25GHZ)	-8.2	-2.2
5G (5.25-5.35GHZ)	-7.6	-2.7
5G (5.47-5.725GHZ)	-6.2	-0.9
5G (5.725-5.85GHZ)	-6.3	-1

S11:

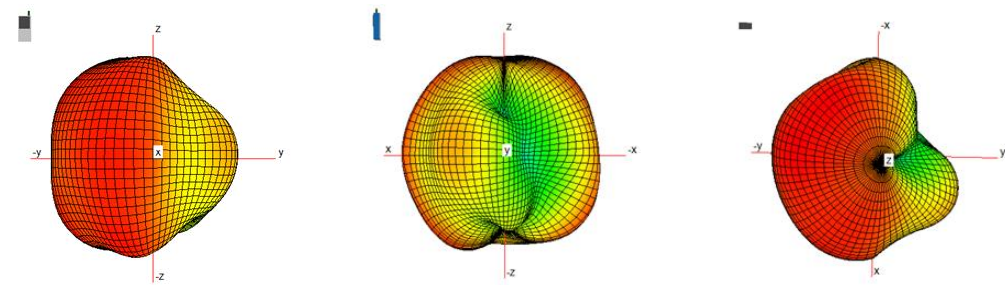
2.4G



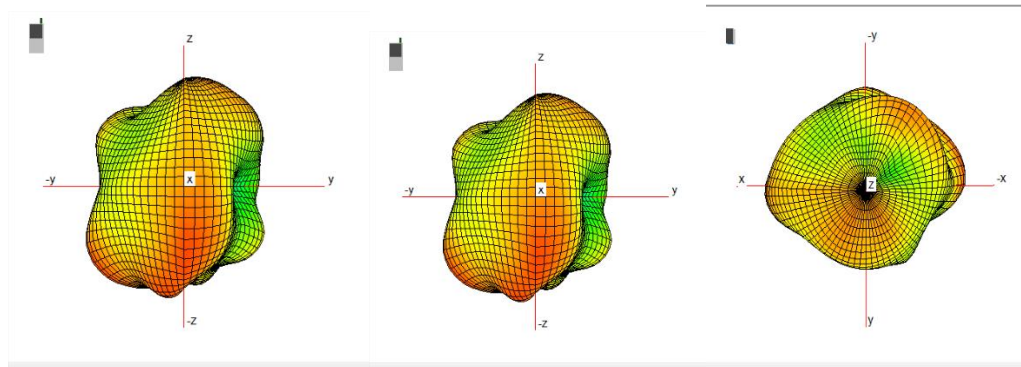
5G



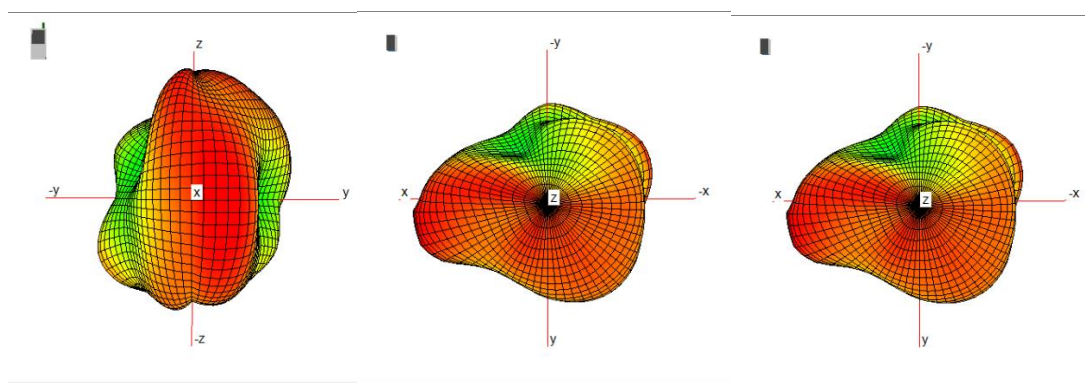
ANT9 2450:



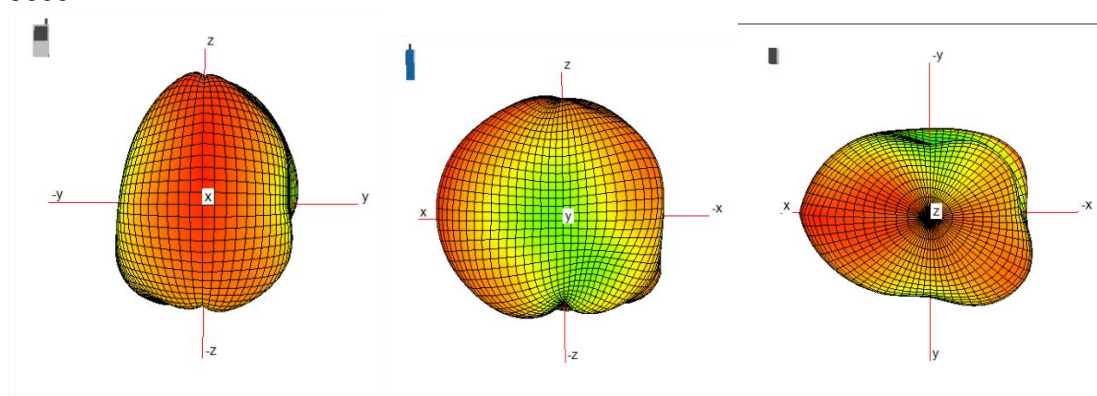
ANT10 5150:



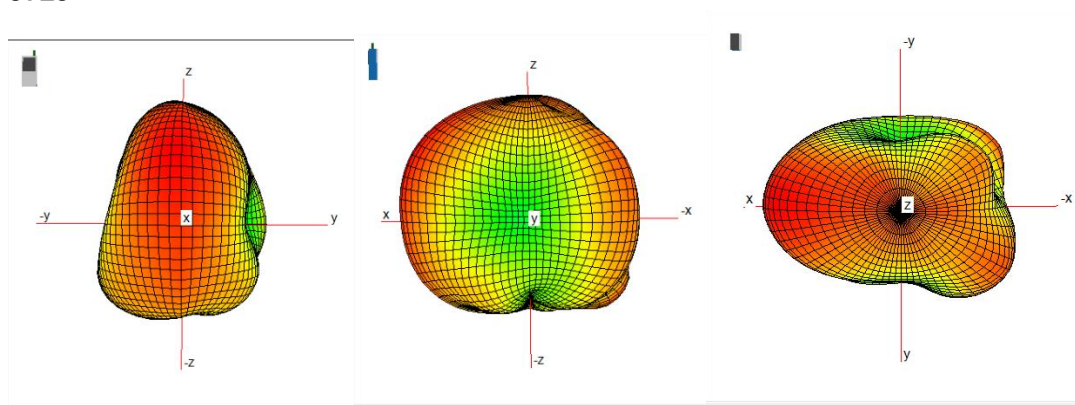
5350:



5600:



5725:

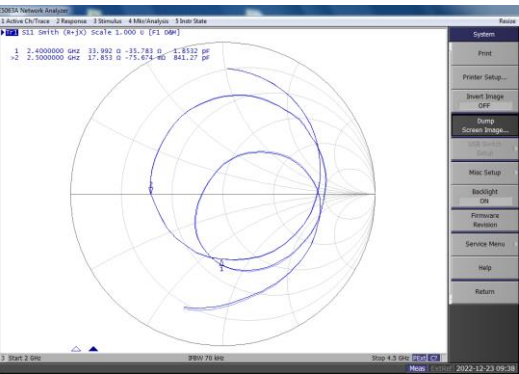
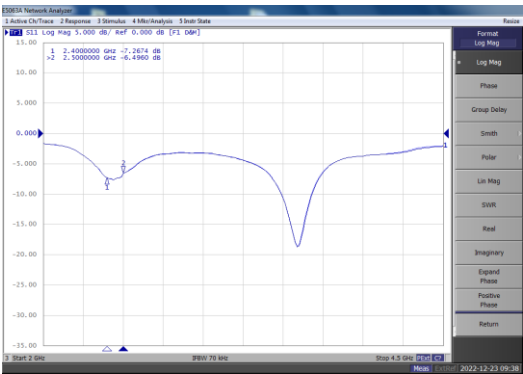


ANT8/11:

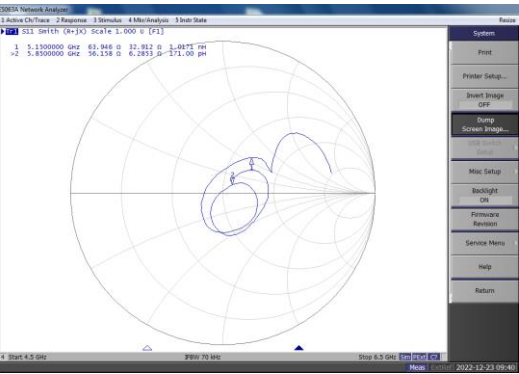
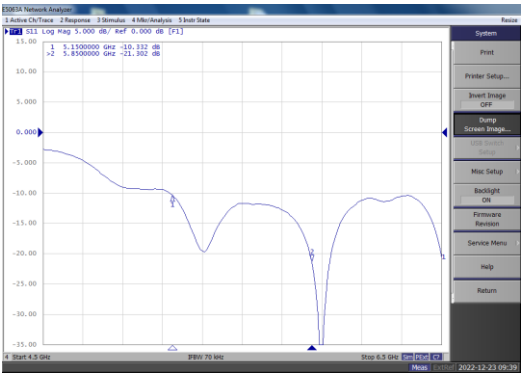
Band	ANT 8/11	
	Effi.(dBi)	peak gain(dBi)
2.4G	-5.3	0.1
5G (5.15-5.25GHZ)	-6.4	-1.9
5G (5.25-5.35GHZ)	-6.0	-2.1
5G (5.47-5.725GHZ)	-5.6	-0.9
5G (5.725-5.85GHZ)	-5.9	-1.2

S11

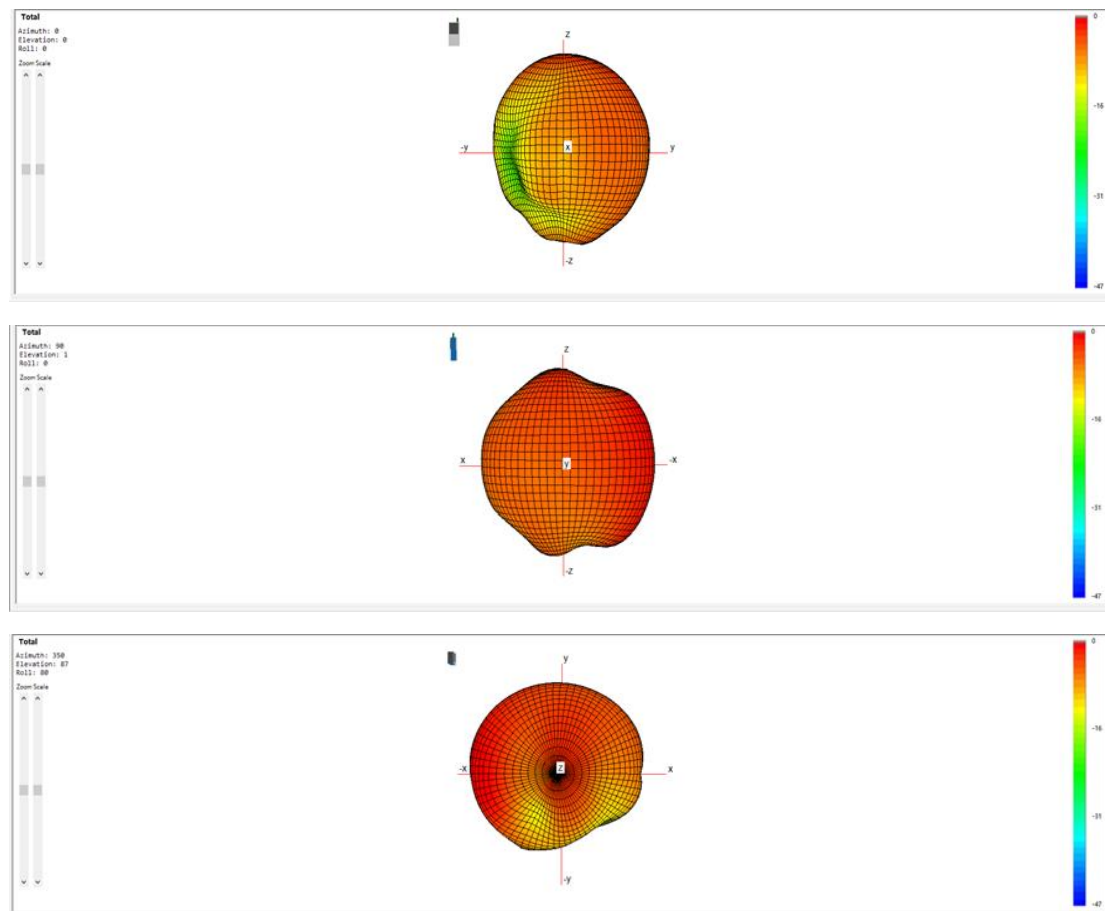
2.4G



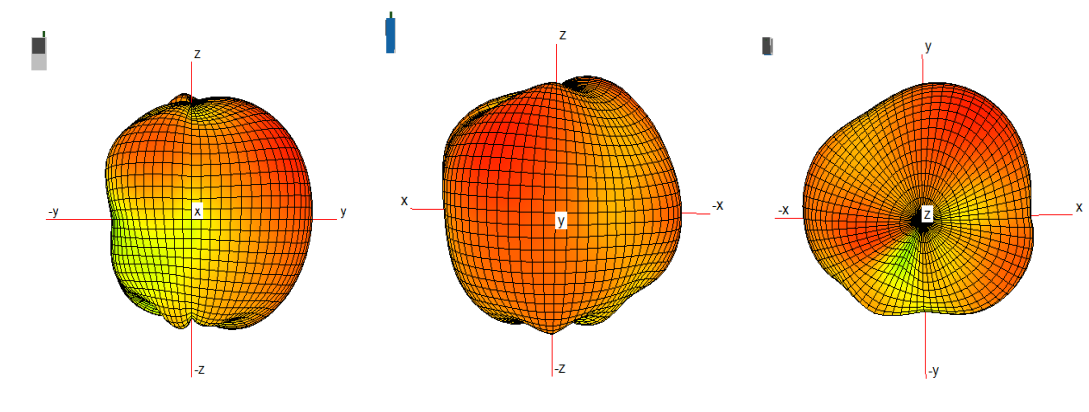
5G



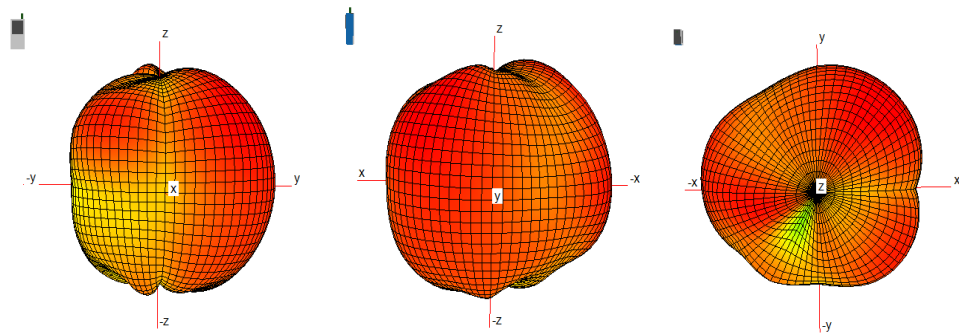
ANT8 2450:



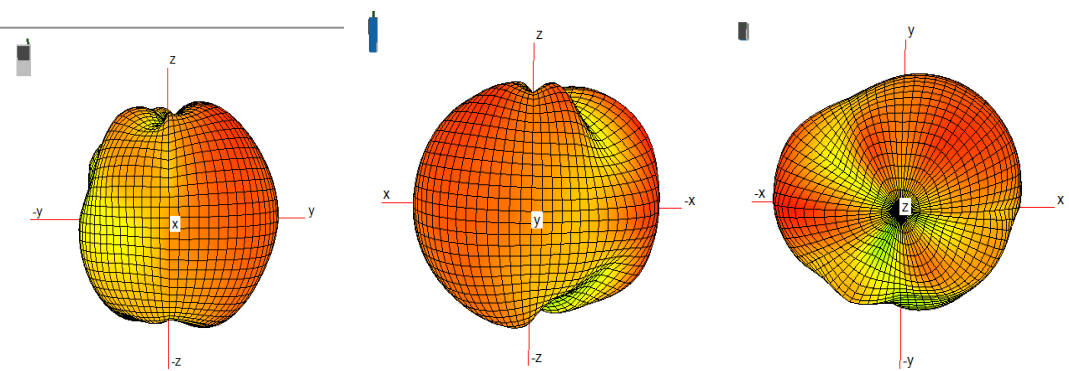
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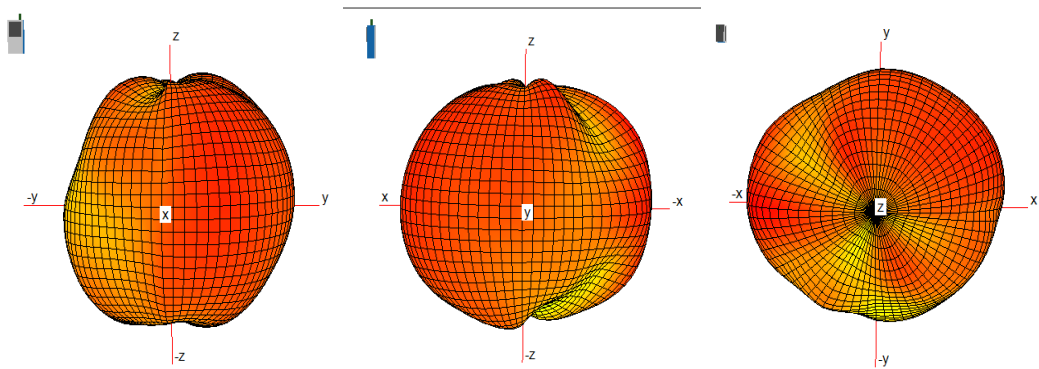
5320:



5680:



5780:



Main Test Instruments:

Name	Manufacturer	Model name	Serial Number	Cal., Date	Exp., Date
2G/3G/4G Vector Network Analyzer	KEYSIGHT	E5071C	My46733920	2022/12/30	2023/12/30
OTA TEST SYSTEM	GENERAL TEST	RayZone 2800	CT10120480B5054	2022/12/30	2023/12/30