



Antenna Part Specification

Project name:	AKG N9 Dongle
Material category:	FPC
Antenna type:	PIFA Antenna
Version:	V3.0
Date:	2023.09.13



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Change record			
Compile / change date	Reason for change	Changed content	Version



I: Manufacturer Information

①Name of manufacturer

Shenzhen Cicent Communication Technology Co., Ltd.

②Address

505-506 ,A Block,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china

③Antenna Testing Laboratory

Satimo Laboratory

④Antenna polarity information

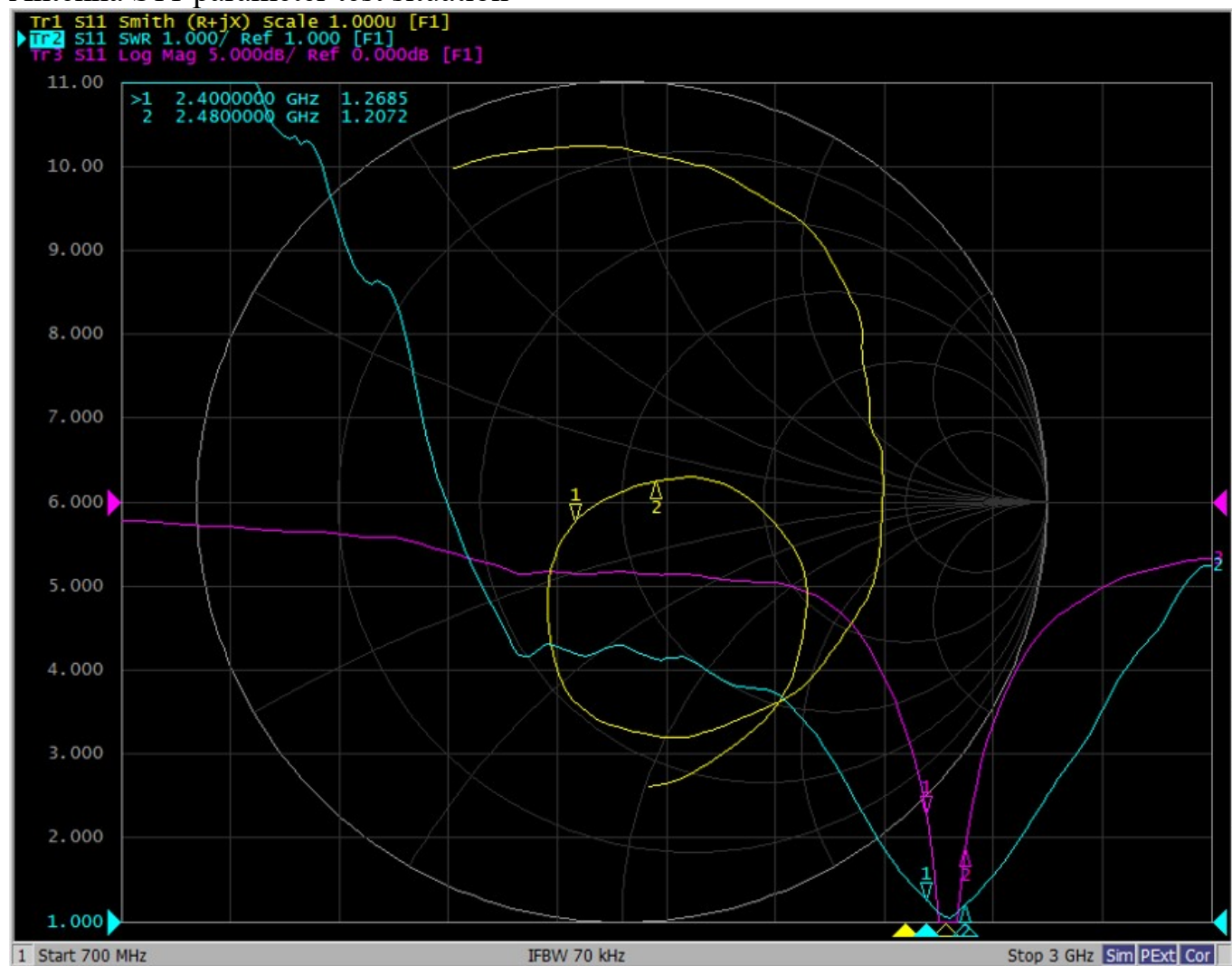
elliptic polarized antenna

II: The report of passive data



Angilent E5071C

Antenna S11 parameter test situation





Efficiency:

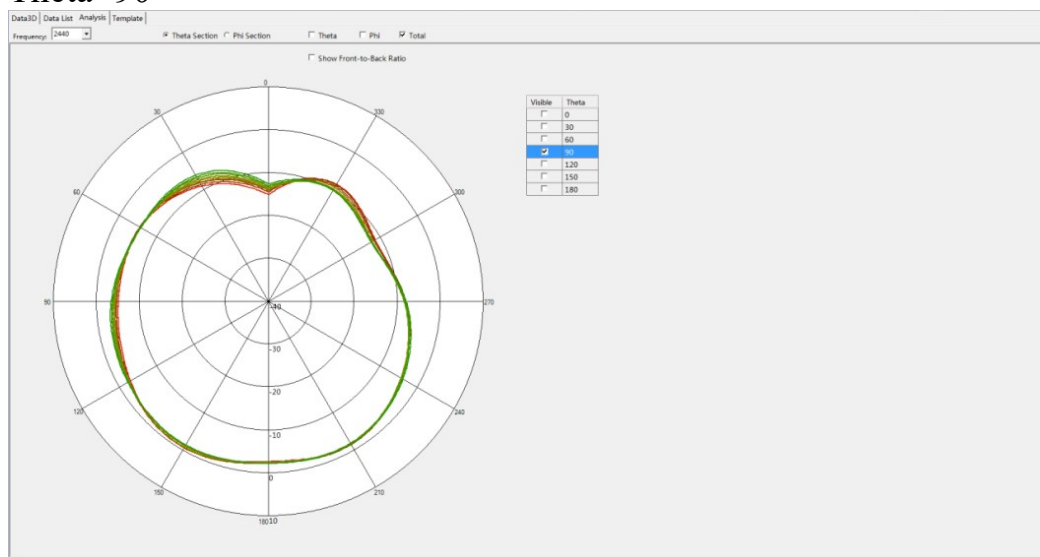
free space			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	24.7%	-6.08	-2.71
2410	25.5%	-5.93	-2.56
2420	25.0%	-6.02	-2.52
2430	24.0%	-6.20	-2.56
2440	23.3%	-6.32	-2.54
2450	23.2%	-6.34	-2.37
2460	23.6%	-6.28	-2.15
2470	23.5%	-6.29	-2.04
2480	23.7%	-6.26	-1.99
Average value	24.0%	-6.19	-2.38

Connect Notebook			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	35.4%	-4.51	-0.53
2410	37.2%	-4.29	-0.35
2420	36.9%	-4.33	-0.42
2430	35.5%	-4.49	-0.52
2440	34.6%	-4.61	-0.49
2450	34.6%	-4.61	-0.42
2460	35.0%	-4.56	-0.35
2470	35.1%	-4.55	-0.24
2480	35.7%	-4.48	-0.14
Average value	35.6%	-4.49	-0.38

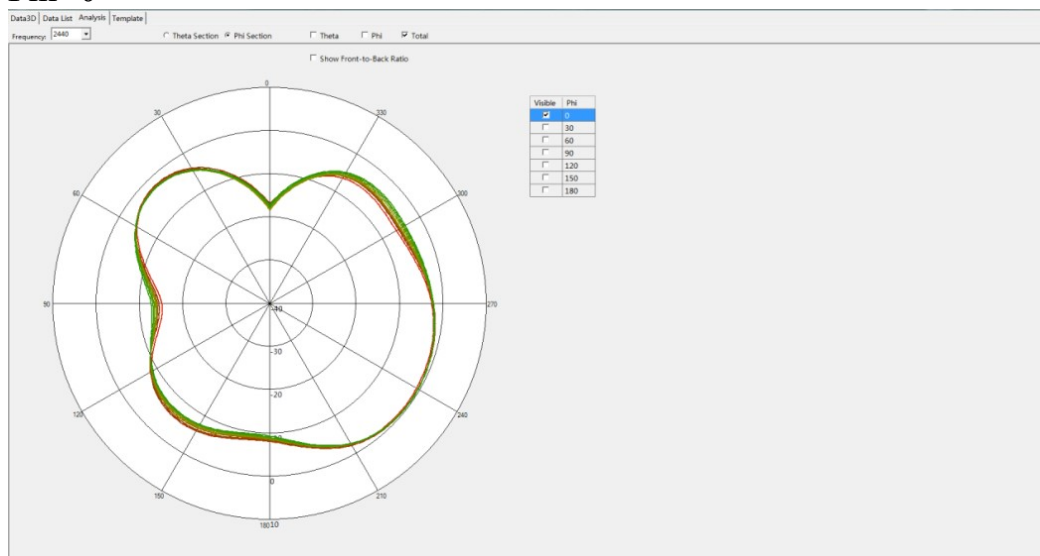


Antenna radiation pattern(free space):

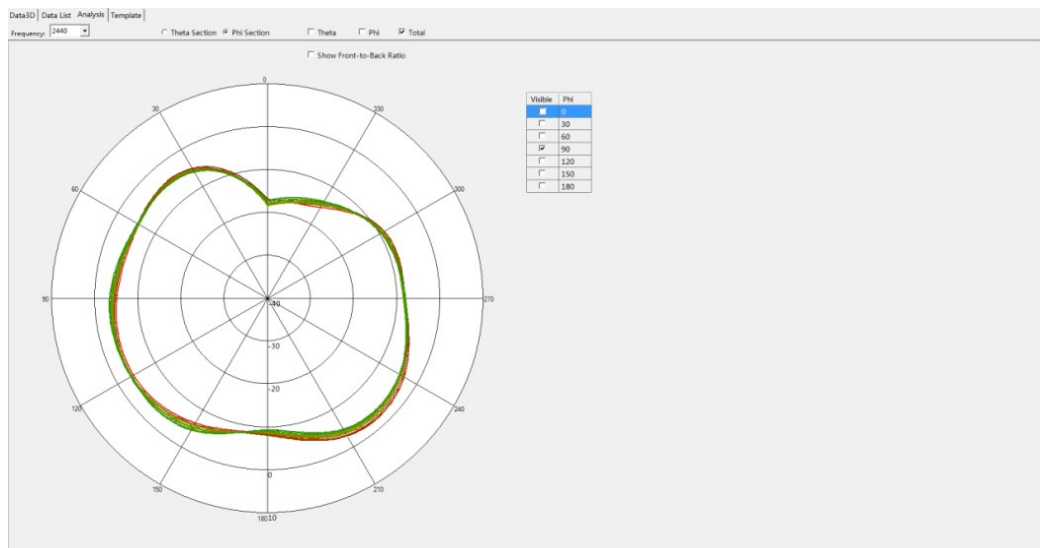
Theta=90°



Phi=0°

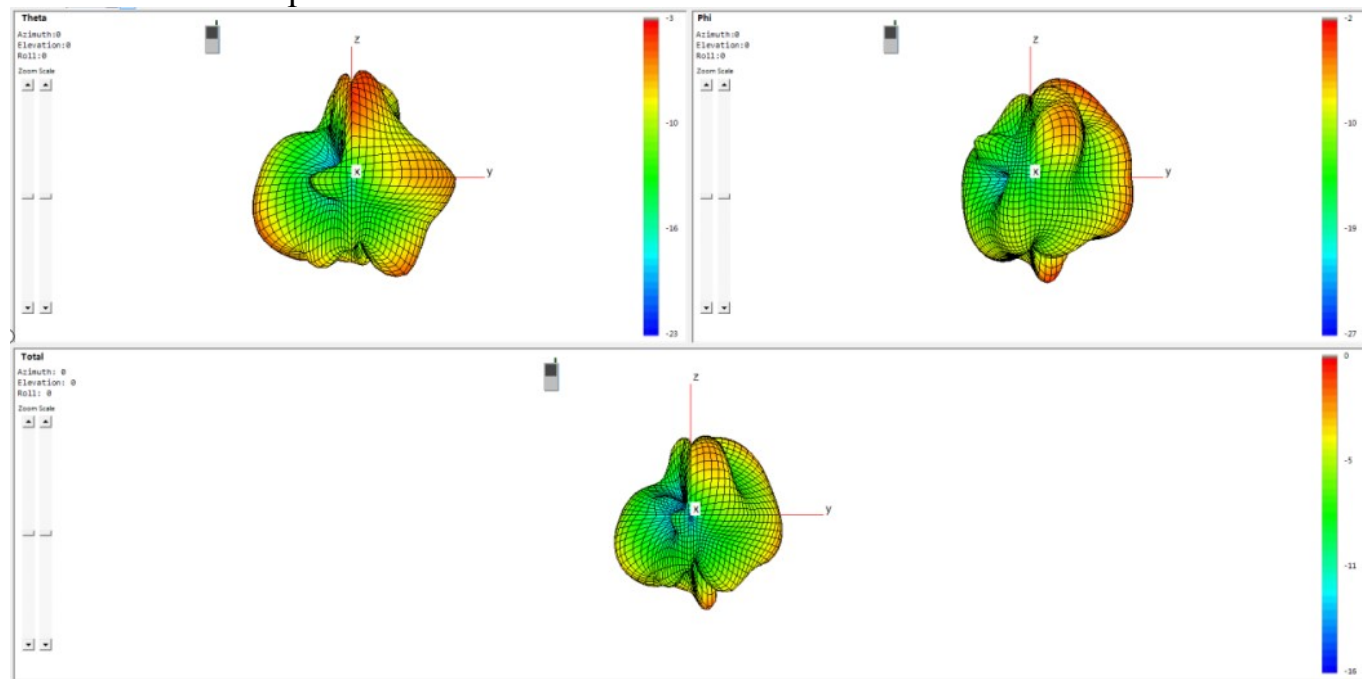


Phi=90°





Antenna radiation pattern 3D:



III: 3D Active test report of antenna

	Channel	TRP (dBm)	TIS (dBm)
BT	CH 0	5.6	-92.3
	CH 39	5.2	-92.0
	CH 78	4.7	-92.0

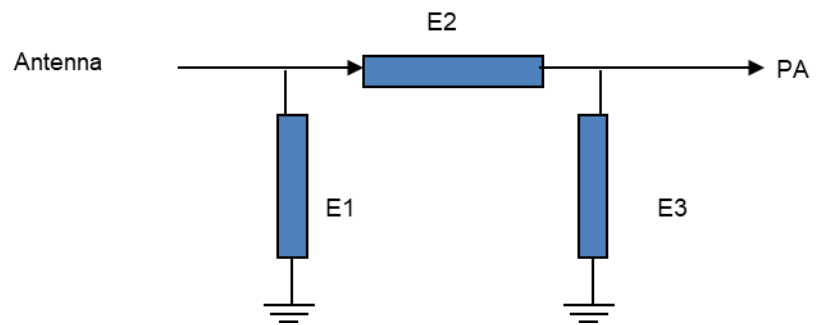


OTA Standard Chamber



IV: Matching circuit

Element	Value
E1(0201)	N/A
E2(0201)	0Ω
E3(0201)	N/A





V: Structure file

