



Antenna Part Specification

Project name:	AKG N9
Material category:	FPC
Antenna type:	LOOP 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 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china

③Antenna Testing Laboratory

Satimo Laboratory

④Antenna polarity information

elliptic polarized antenna

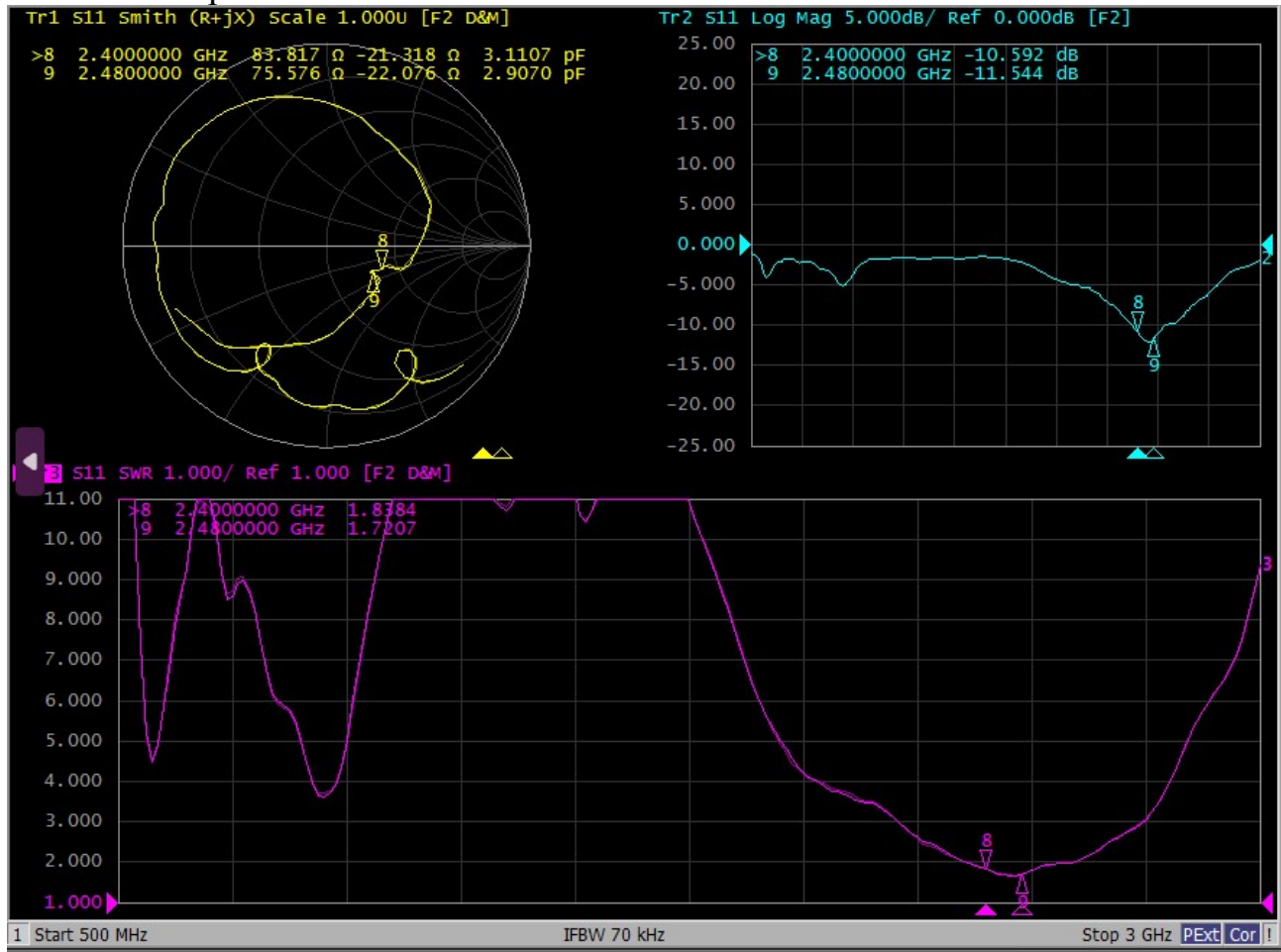
II: The report of passive data



Agilent E5071C



Antenna S11 parameter test situation





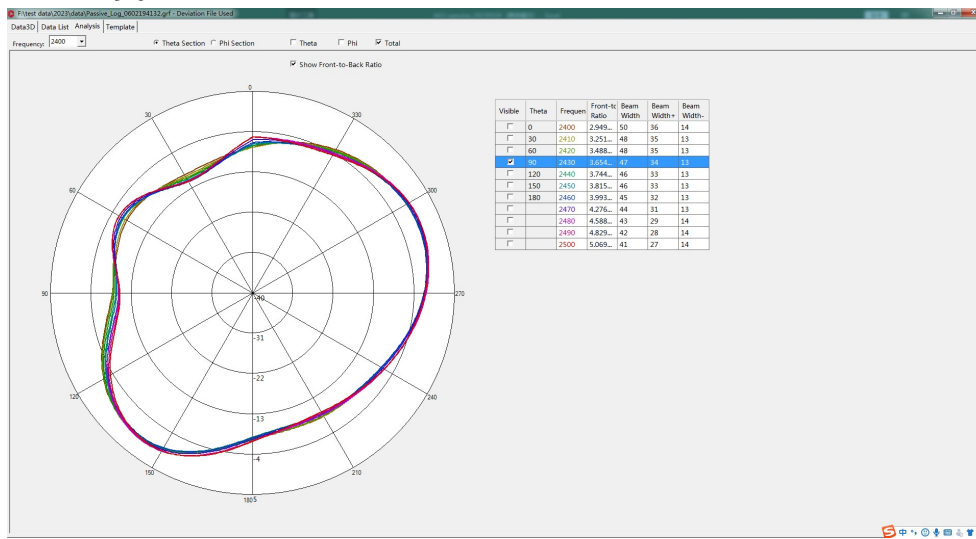
Efficiency:

free space			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	43.1%	-3.65	0.08
2410	43.3%	-3.64	0.05
2420	43.3%	-3.64	0.19
2430	41.7%	-3.79	0.13
2440	39.9%	-3.99	-0.09
2450	40.3%	-3.95	-0.03
2460	39.1%	-4.08	-0.04
2470	41.2%	-3.85	0.38
2480	43.6%	-3.61	0.78
Average value	41.7%	-3.80	0.16

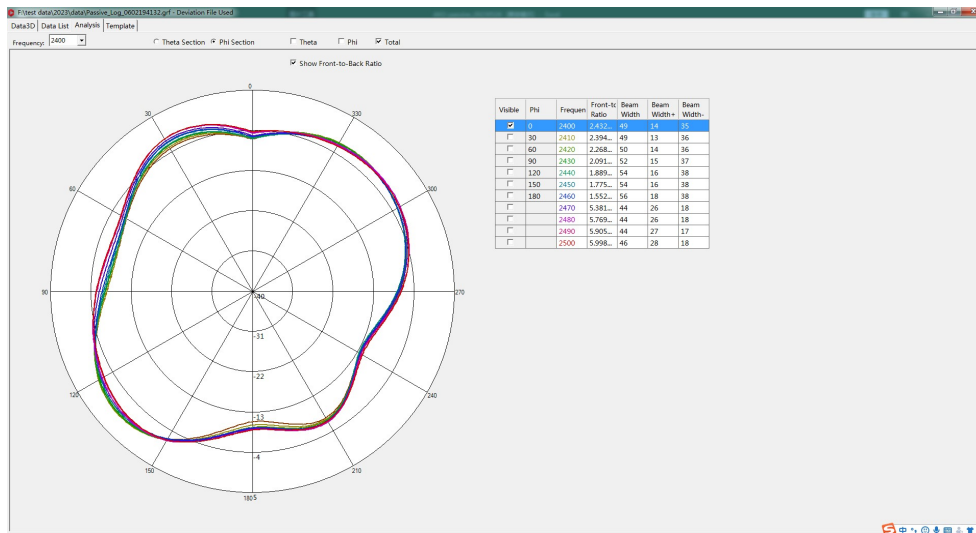
headform			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	35.5%	-4.49	3.03
2410	35.8%	-4.47	3.00
2420	35.8%	-4.46	2.88
2430	34.5%	-4.63	2.63
2440	32.8%	-4.84	2.38
2450	32.8%	-4.84	2.27
2460	31.5%	-5.01	1.98
2470	32.9%	-4.83	2.28
2480	34.1%	-4.68	2.49
Average value	34.0%	-4.69	2.55



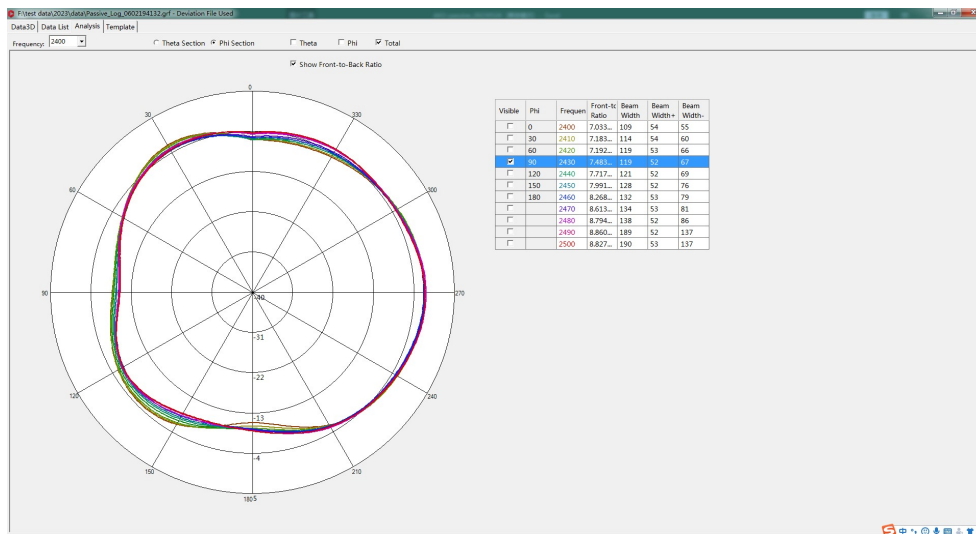
Antenna radiation pattern (free space): Theta=90°



Phi=0°

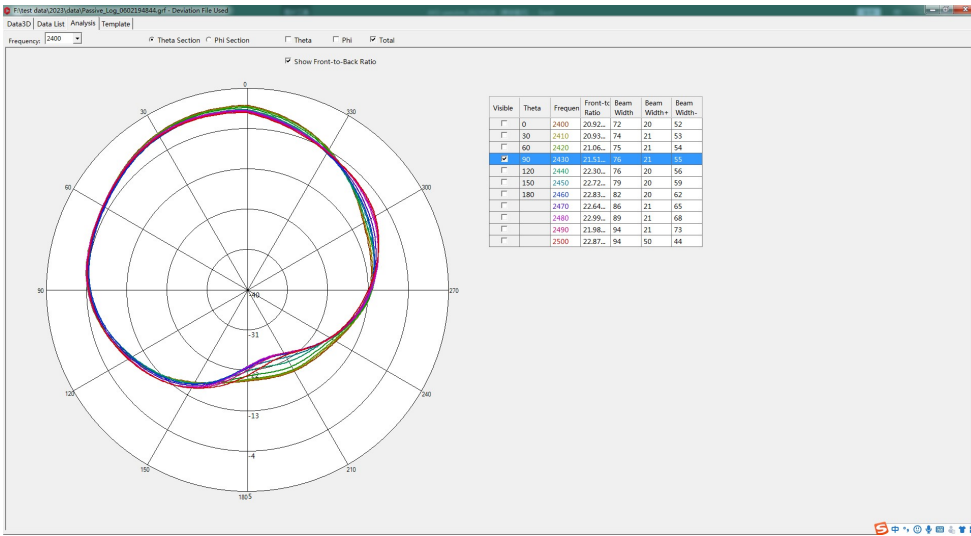


Phi=90°

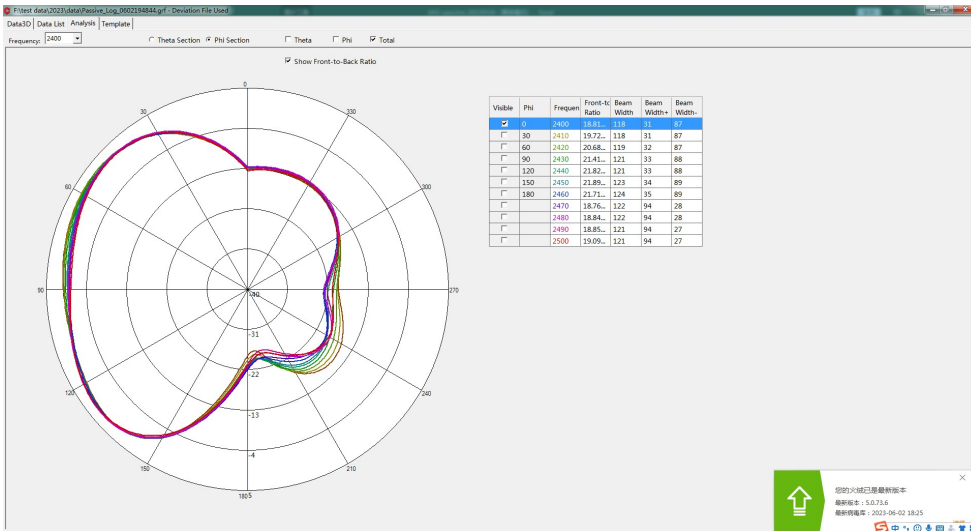




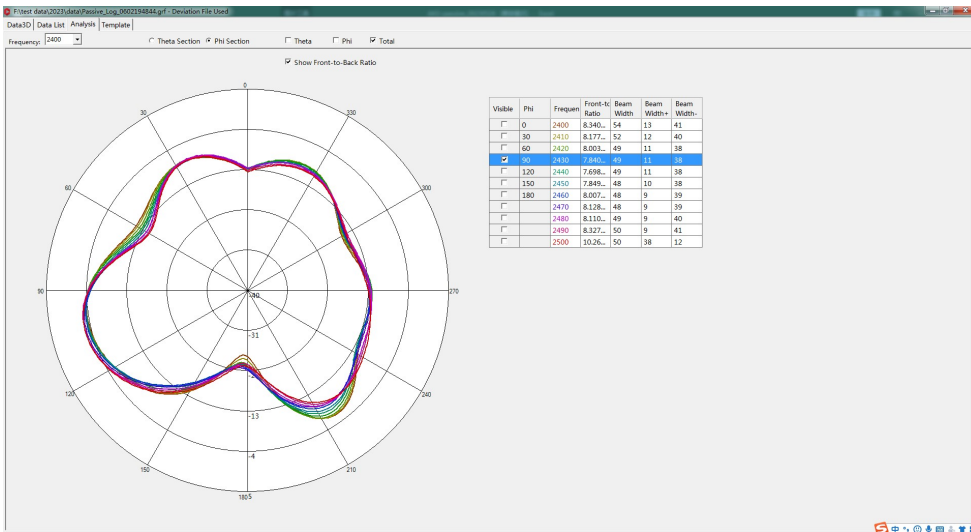
Antenna radiation pattern(headform): Theta=90°



Phi=0°

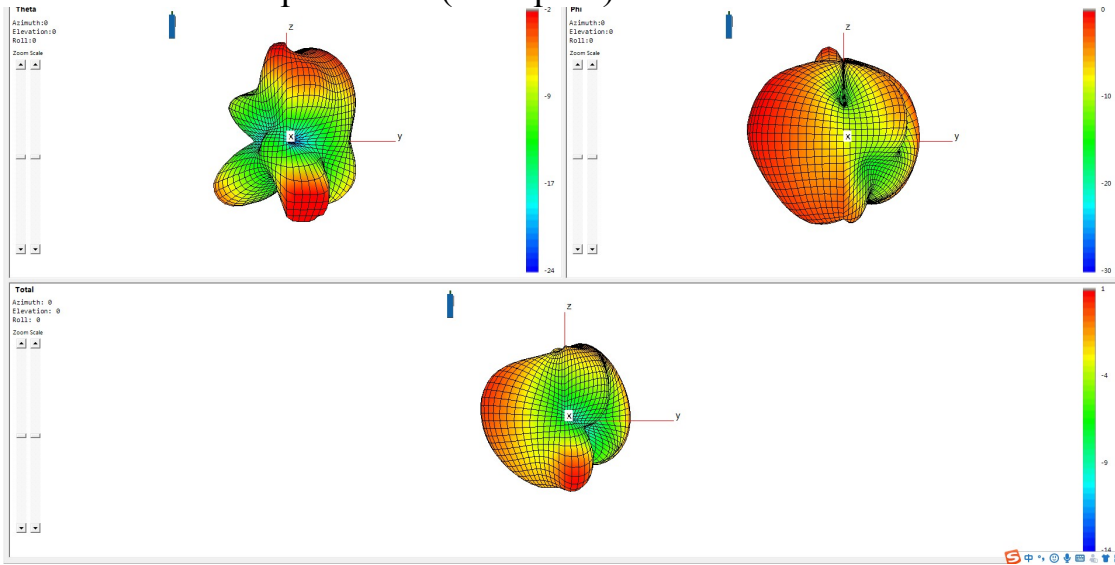


Phi=90°

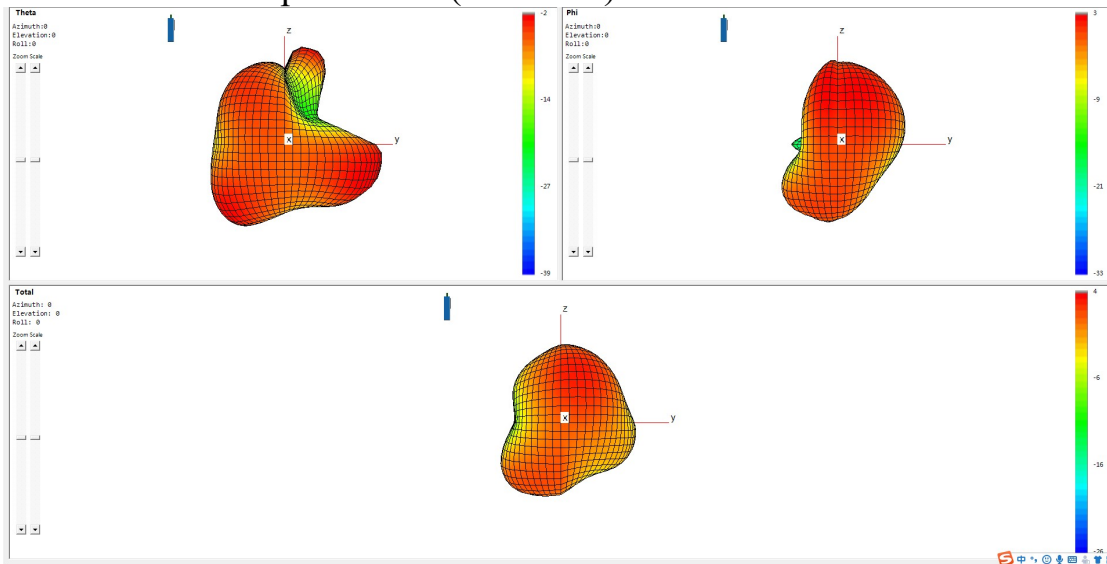




Antenna radiation pattern 3D(free space) :



Antenna radiation pattern 3D (headform):

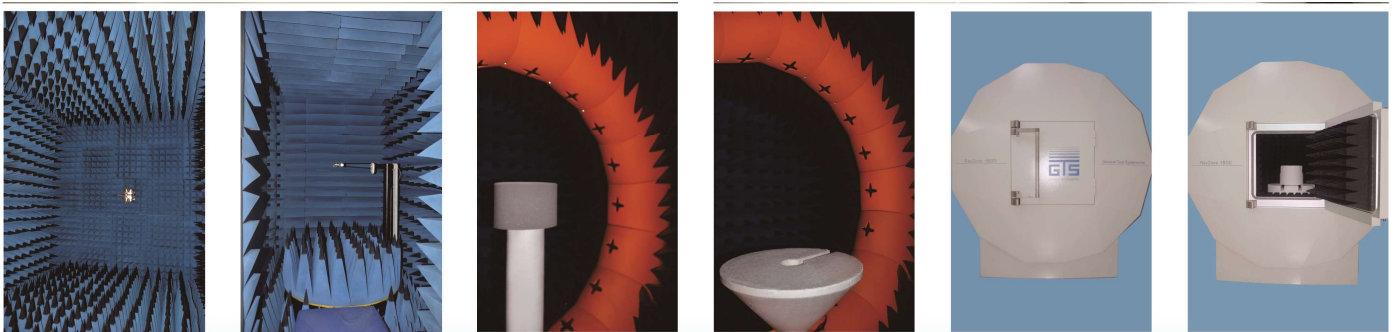




III: 3D Active test report of antenna

	Channel	TRP (dBm)	TIS (dBm)
free space	CH 0	6.1	-93.5
	CH 39	4.3	-93.9
	CH 78	4.6	-93.8

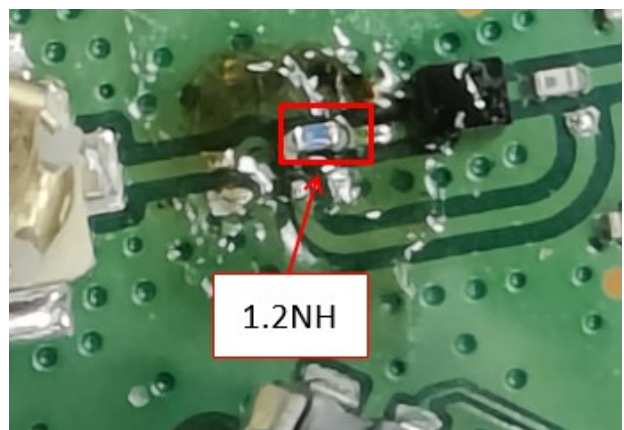
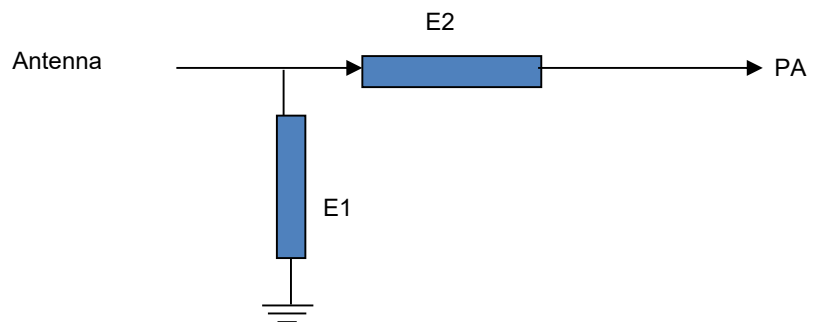
	Channel	TRP (dBm)	TIS (dBm)
headform	CH 0	4.4	-91.2
	CH 39	2.0	-91.7
	CH 78	2.3	-91.7



OTA Standard Chamber

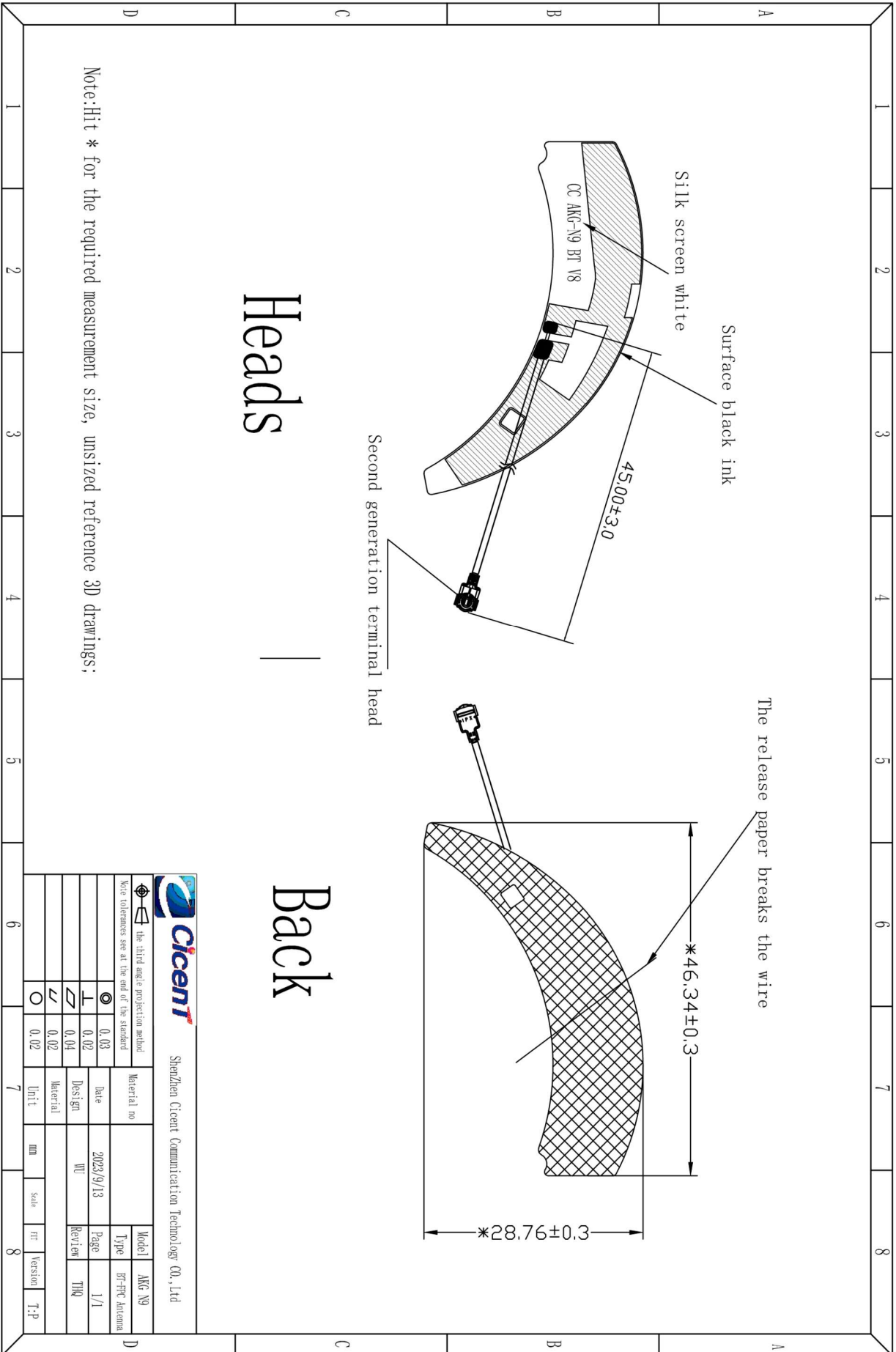
IV: Matching circuit

Element	Value
E1(0201)	N/A
E2(0201)	1.2NH





V: Structure file



Note: Hit * for the required measurement size, unsized reference 3D drawings;

		Shenzhen Cicent Communication Technology Co., Ltd	
	The third angle projection method	Material no	Model MKC N9
	Note: tolerances see at the end of the standard	Date	Type BT-FPC Antenna
		2023/9/13	Page 1/1
		Design WU	Review
		Material	THQ
		Unit	mm
		Scale	1:1
		Fit	Version
			T.P