



# 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 /<br>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





Efficiency:

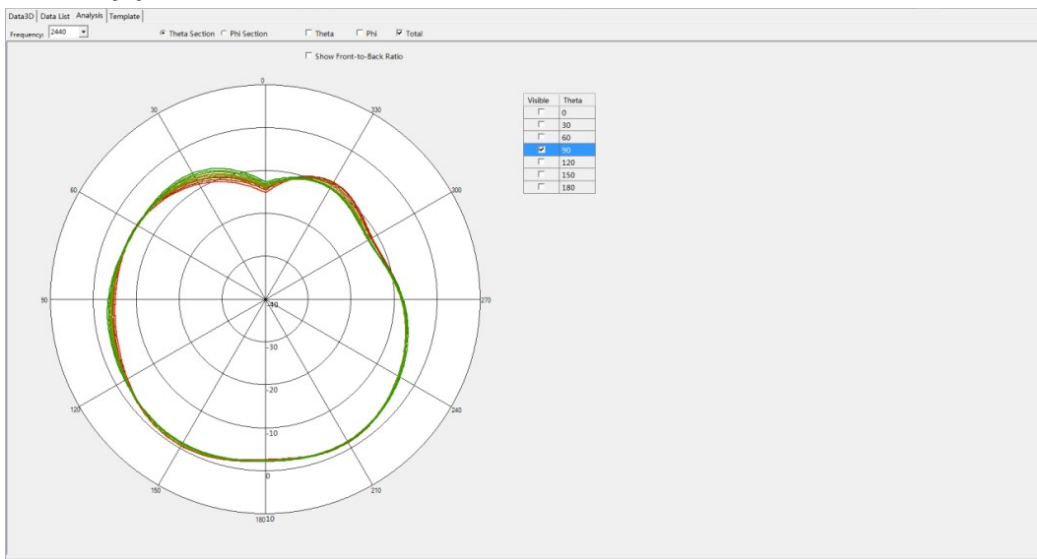
| free space      |            |                  |            |
|-----------------|------------|------------------|------------|
| Frequency (MHz) | Efficiency | Efficiency (dB ) | Gain (dBi) |
| 2400            | 24.7%      | -6.08            | -2.71      |
| 2410            | 25.5%      | -5.93            | -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      |

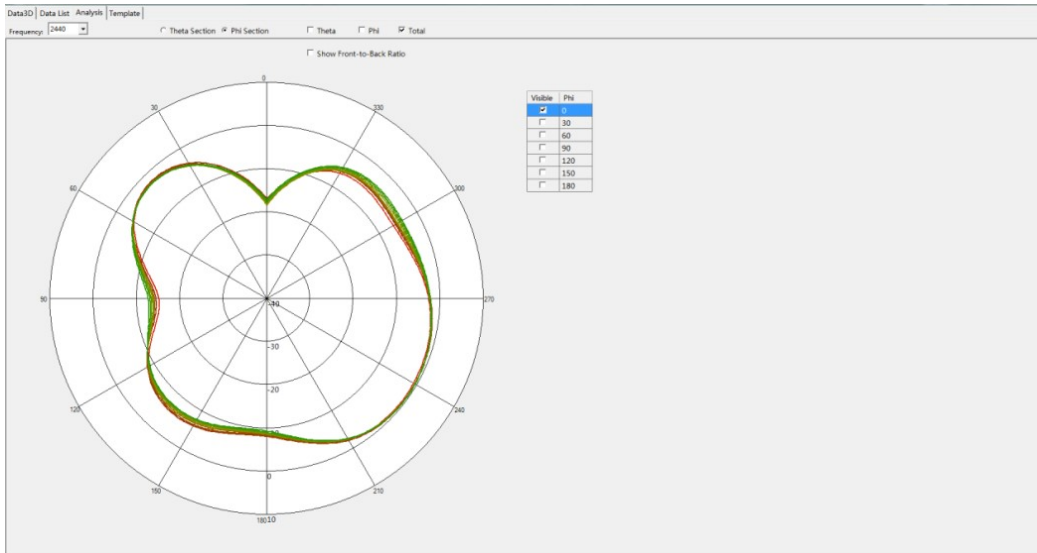


### Antenna radiation pattern(free space):

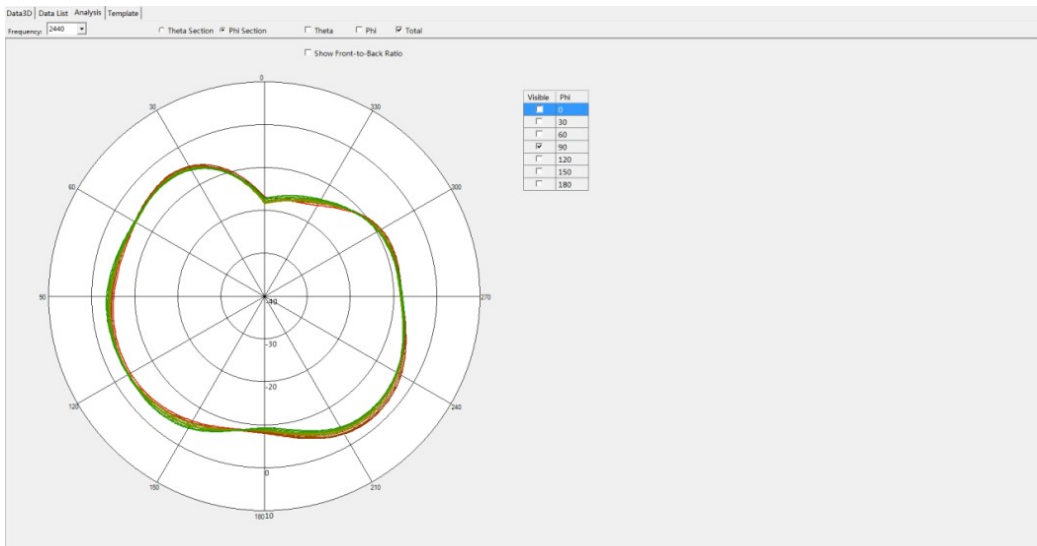
Theta=90°



Phi=0°

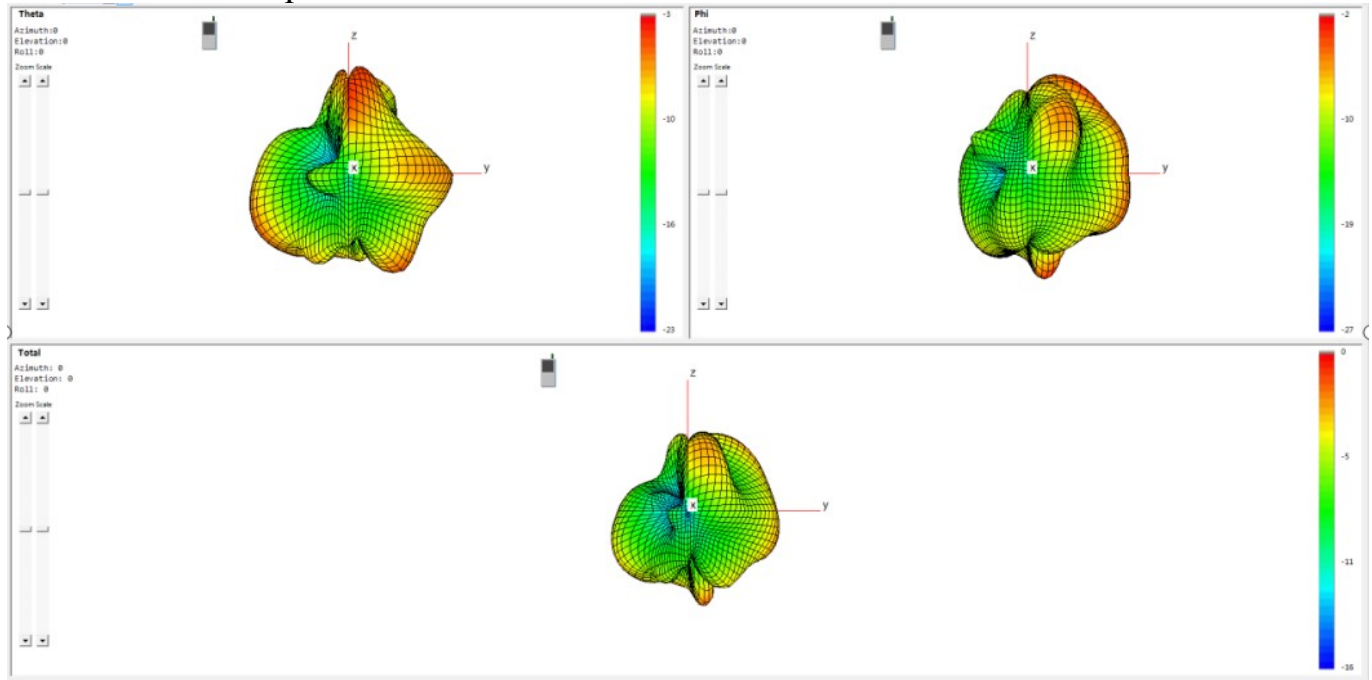


Phi=90°





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     |

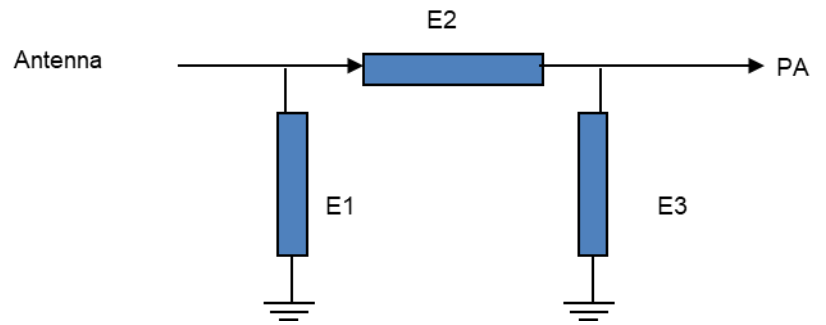


OTA Standard Chamber



IV: Matching circuit

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







V: Structure file

