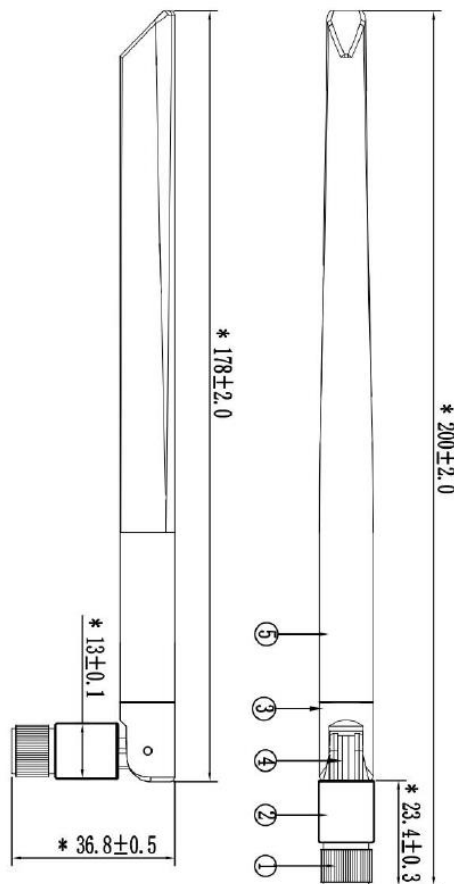


Antenna Specification

1. Antenna Describe

Antenna Manufacturer	Moka Technology(Guangdong) Co., Ltd.
Address	No. 1, Qiaoguang Road, Chenjiang Street, Zhongkai New and High-tech Industries Development Zone, 516029 Huizhou Guangdong, P.R. China
Antenna Model	NF1-2Z0169-RS
Antenna Type	External Antenna
Antenna Gain	3.04 Max (2.4G), 3.47dBi Max (5G)
Frequency Rang	2400-2500MHz, 5150-5850MHz
VSWR	≤ 2
Input Impedance	50 Ω

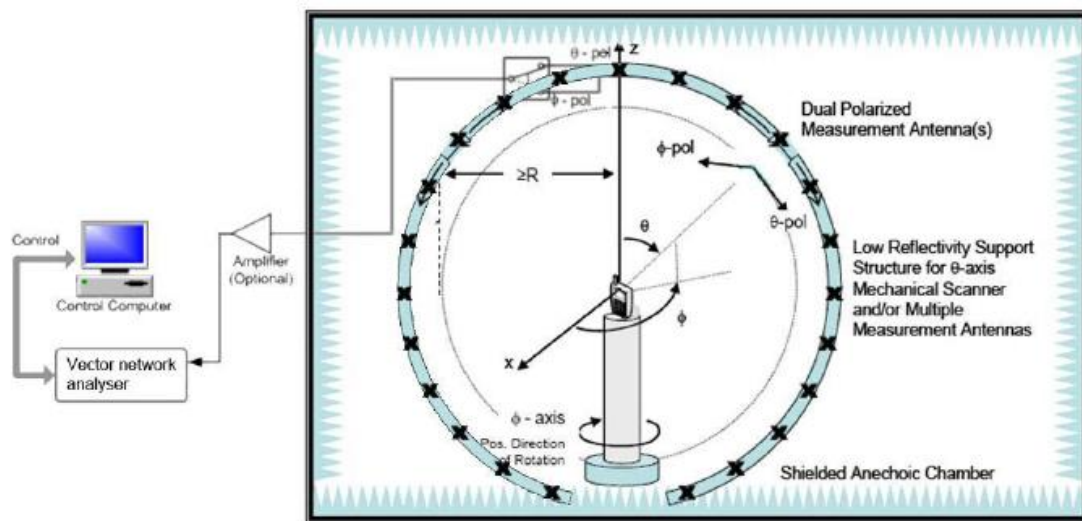
2. External View Drawing



Unit: mm

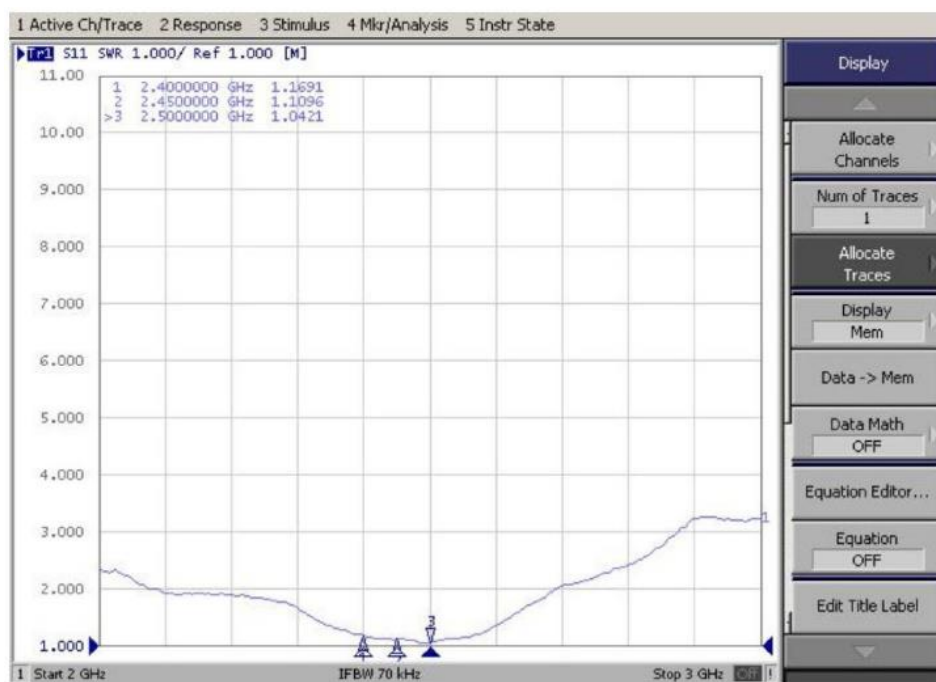
3. Measurement Result

3.1 Test Setup

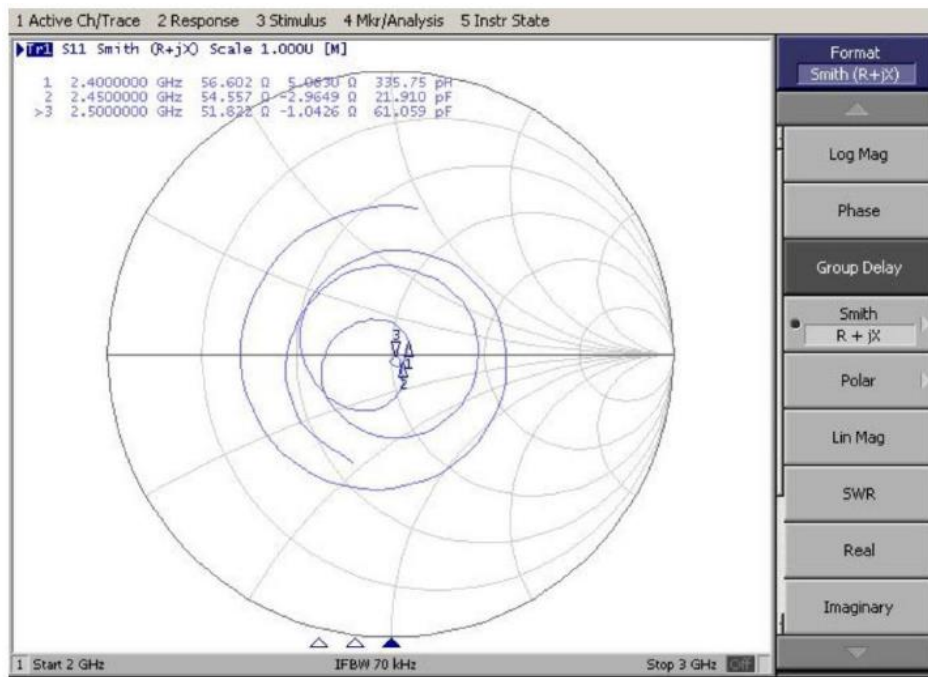


3.2 S11 Parameter

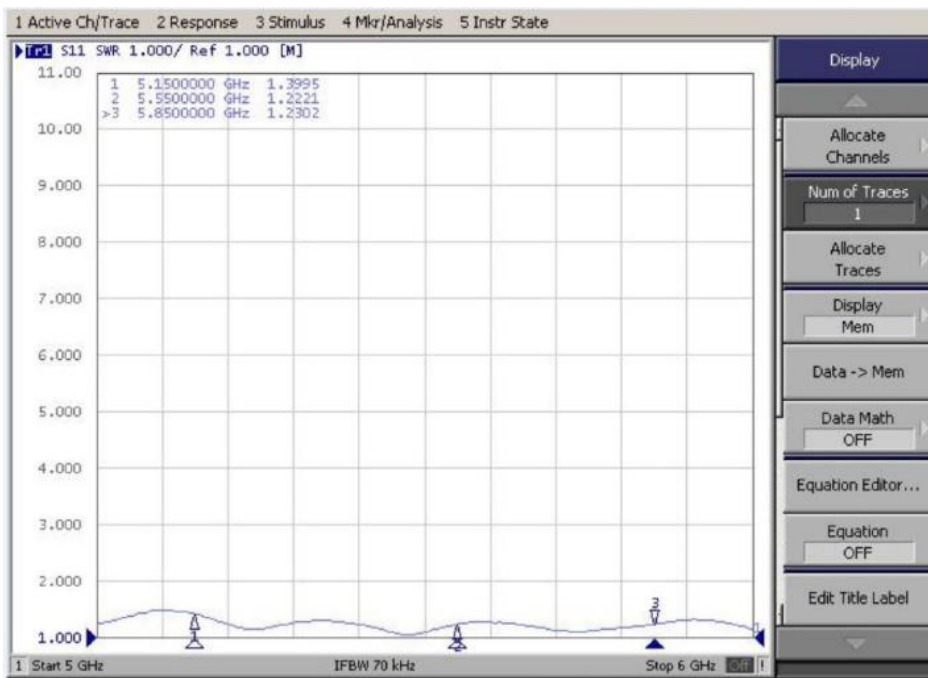
2.4G SWR



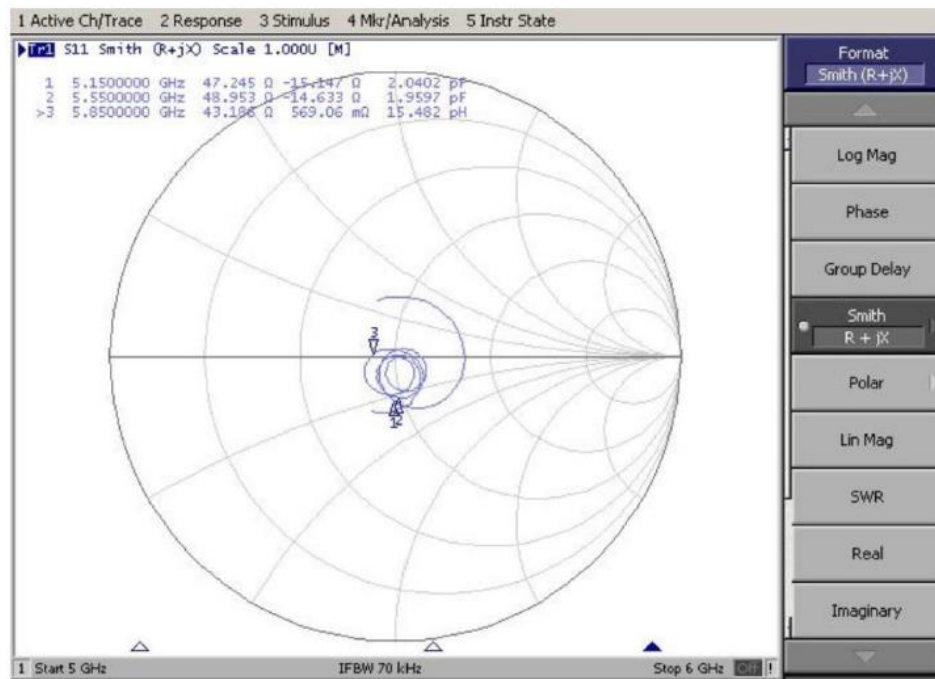
2.4G Smith



5G SWR



5G Smith



3.3 Antenna test data

Frequency/MHz	Efficiency/%	Gain/dBi
2400	52.37	2.85
2410	51.7	2.77
2420	52.36	2.52
2430	53.41	2.56
2440	50.12	2.94
2450	50.12	2.79
2460	53.88	2.79
2470	51.24	2.93
2480	53.39	3.04
2490	55.29	2.58
2500	50.02	2.6

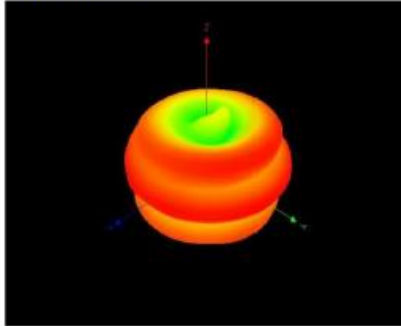
Frequency/MHz	Efficiency/%	Gain/dBi
5150	45.34	2.75
5200	43.7	3.21
5250	45.01	3.11
5300	55.68	3.21
5350	51.29	3.3
5400	53.79	3.47
5450	51.12	3.38
5500	50.15	3.01
5550	50.79	2.8
5600	48.87	2.73
5650	45.61	2.66
5700	47.92	2.56
5750	46.53	2.32
5800	43.24	2.2
5850	48.23	2.15

3.4 Antenna test diagram

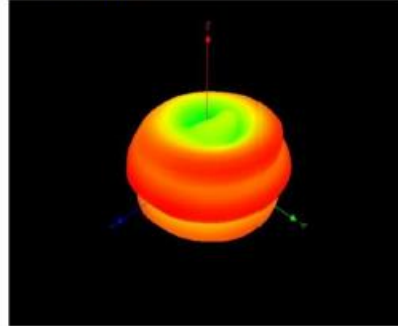
2.4G

3D Patten

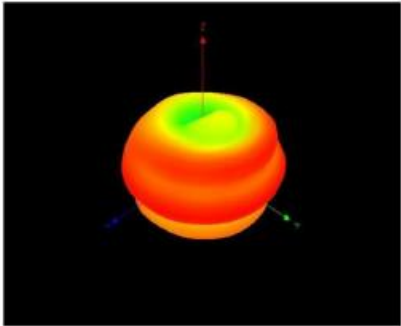
2400MHz



2450MHz

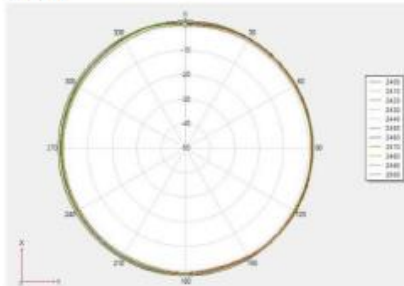


2500MHz

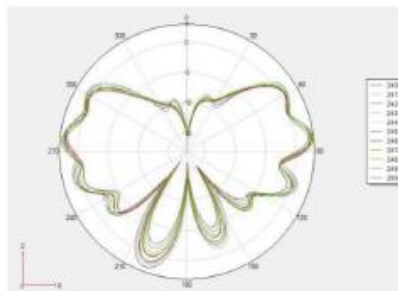


2D Patten

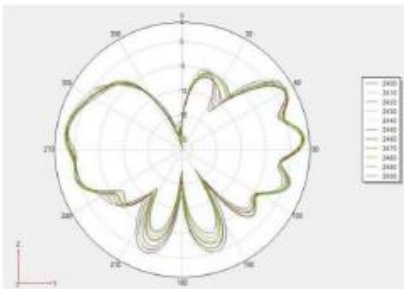
XOY



ZOX



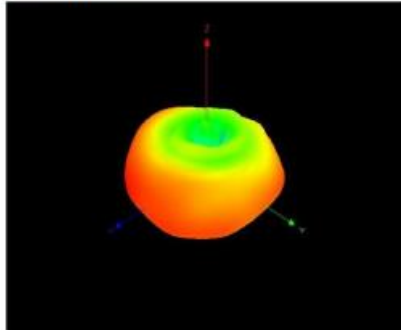
ZOY



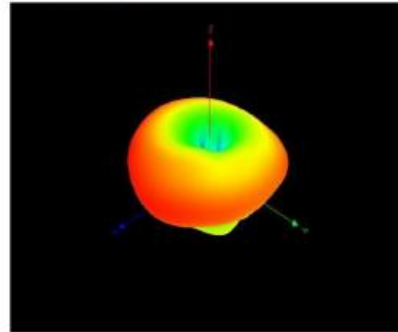
5G

3D Patten

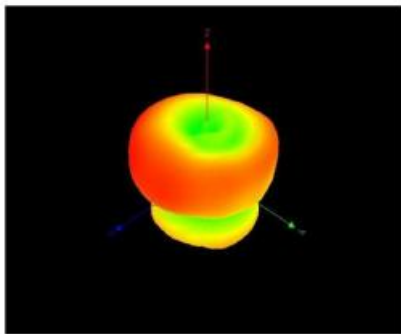
5150MHz



5550MHz

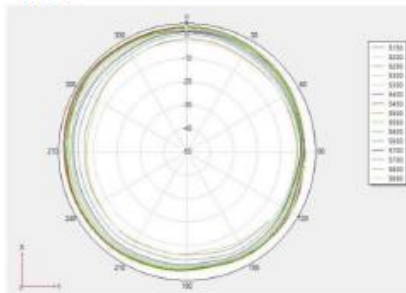


5850MHz

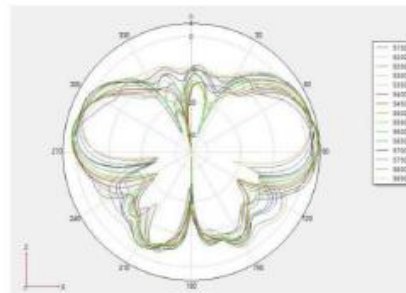


2D Patten

XOY



ZOX



ZOY

