

Antenna Specification

Project number : UKE

Customer part number :

Product name : Moto-UKE Antenna

Project number : Moto-UKE

Signature :

Issued by	Review	Approval	Date
He shiyin	chen kahong	Wang Jieshi	2025/11/27

Part I、 Antenna Basic Parameters

1.1 Type of Antenna: FPC Antenna

1.2 Model: Moto-UKE

1.3 Dimension: Length, Width and Thickness are 21.08mm, 4.32mm and 0.12mm

1.4 Frequency range: 2400MHz ~ 2500MHz

1.5 Gain: Left Ear, -0.89dBi; Right Ear, -0.77dBi

1.6 VSWR: ≤ 2

1.7 Return Loss: $\leq -6\text{dB}$

1.8 Polarization: Linear

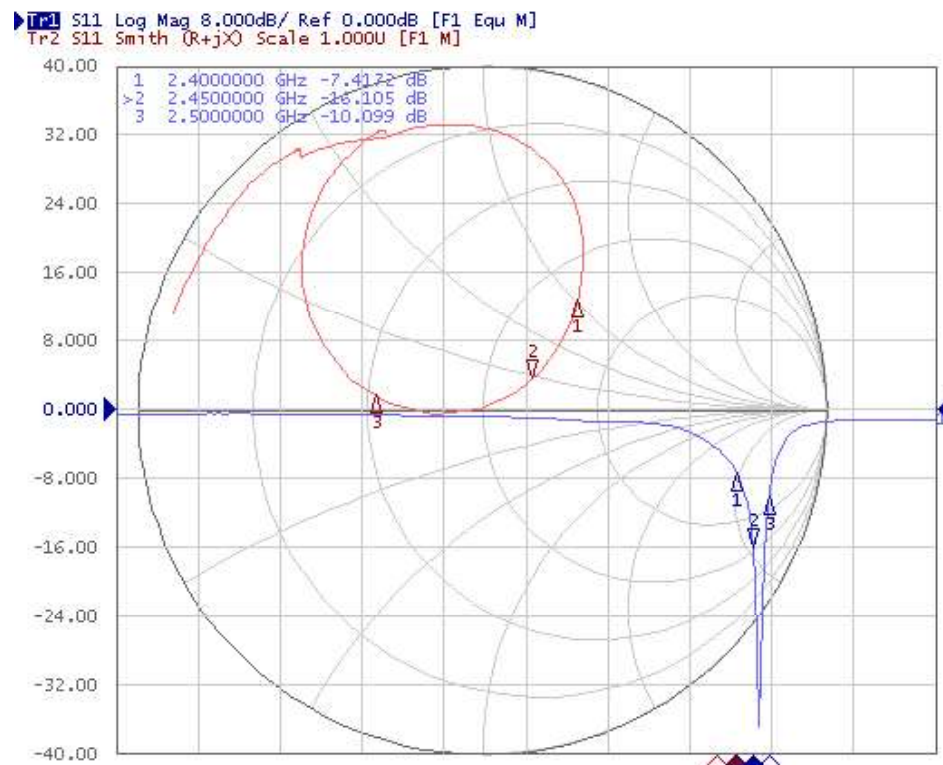
1.9 Radiation: Omni-directional

1.10 Manufacturer: Shenzhen Yusheng Communication Equipment Co., LTD.

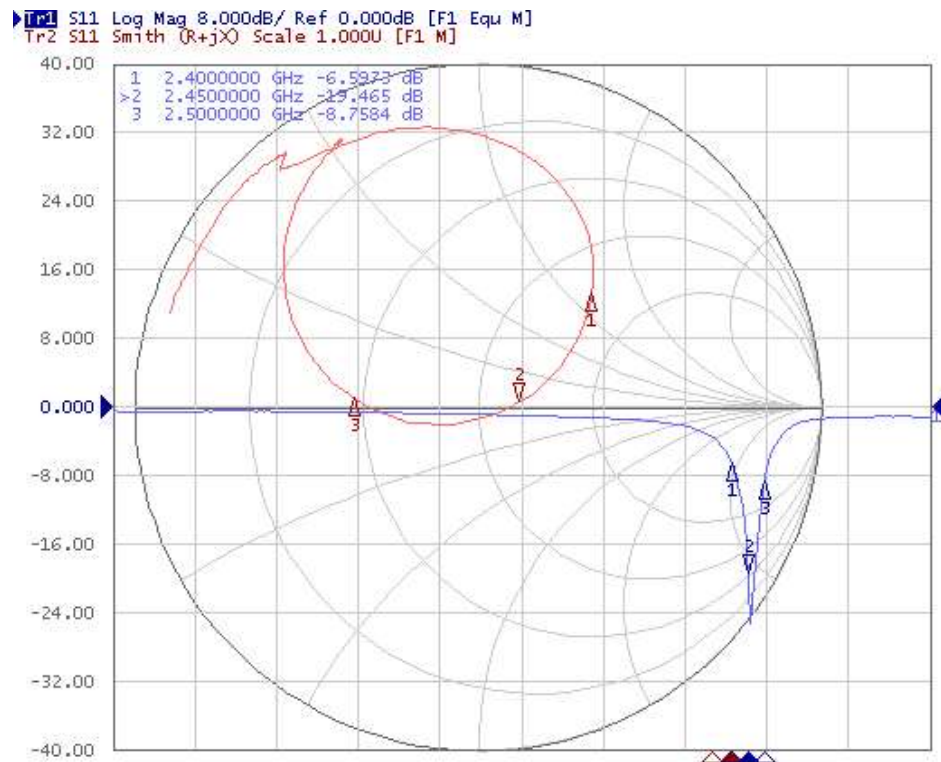
1.11 Address: 407-411, 4th Floor, Building 2, Nanyun Chuanggu Park, Southeast of the intersection of Guangming Avenue and Dongchang Road, Guangming District, Shenzhen, Guangdong Province

Part III、Electricity Performance

3.1 Return Loss



Left ear



Right ear

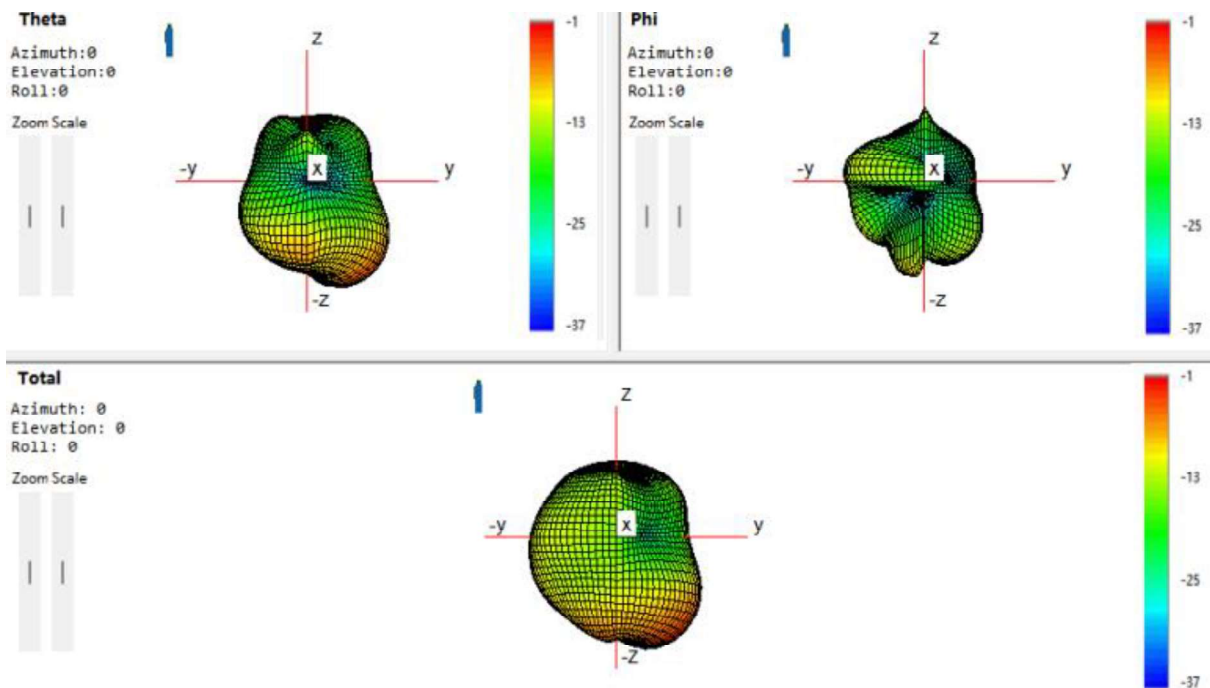
3.2 Antenna Efficiency

Left Ear				Right Ear			
Freq(MHz)	Effi (dB)	Effi (%)	Gain (dBi)	Freq(MHz)	Effi (dB)	Effi (%)	Gain (dBi)
2400	-6.57	22.03	-1.85	2400	-6.29	23.50	-1.72
2410	-6.46	22.59	-1.67	2410	-6.20	23.99	-1.60
2420	-6.40	22.91	-1.40	2420	-6.13	24.38	-1.33
2430	-6.21	23.93	-1.11	2430	-5.92	25.59	-1.07
2440	-5.93	25.53	-0.89	2440	-5.84	26.06	-0.91
2450	-5.98	25.23	-0.93	2450	-5.77	26.49	-0.77
2460	-6.12	24.43	-1.01	2460	-6.00	25.12	-0.99
2470	-6.34	23.23	-1.32	2470	-6.22	23.88	-1.18
2480	-6.37	23.07	-1.56	2480	-6.36	23.12	-1.37
2490	-6.45	22.65	-1.41	2490	-6.39	22.96	-1.55
2500	-6.55	22.13	-1.36	2500	-6.50	22.39	-1.43
AVG	-6.31	23.43	-1.32	AVG	-6.15	24.31	-1.27

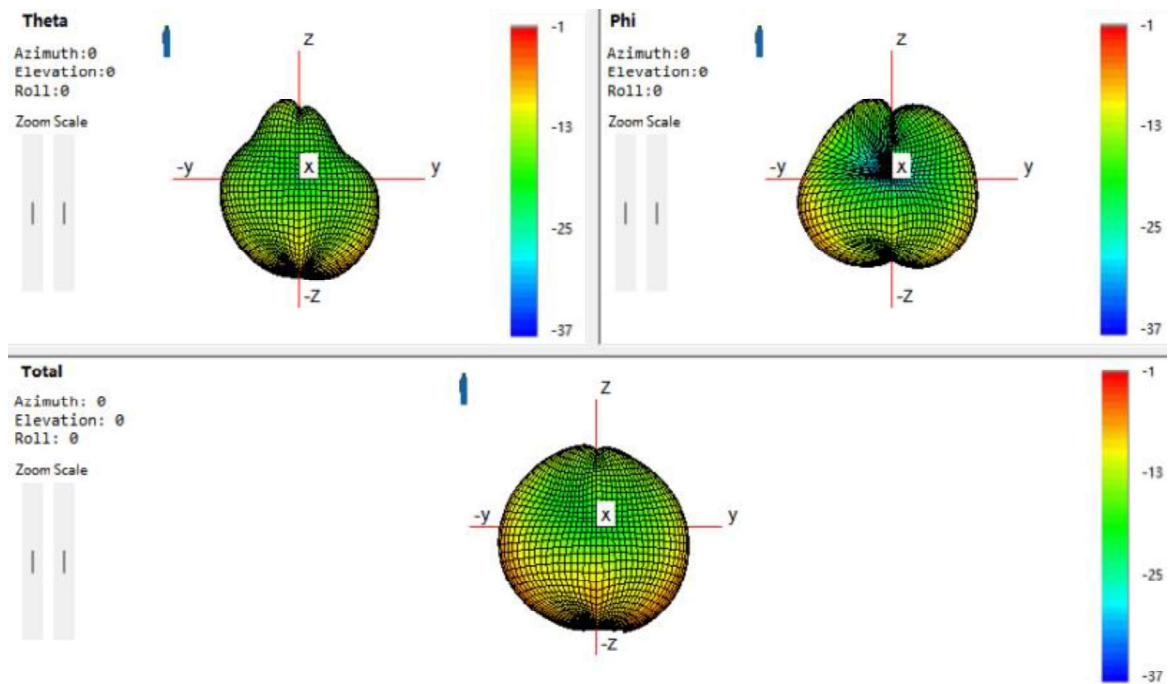
Free Space Efficiency

3.3 Radiation Pattern

3.3.1 3D Pattern

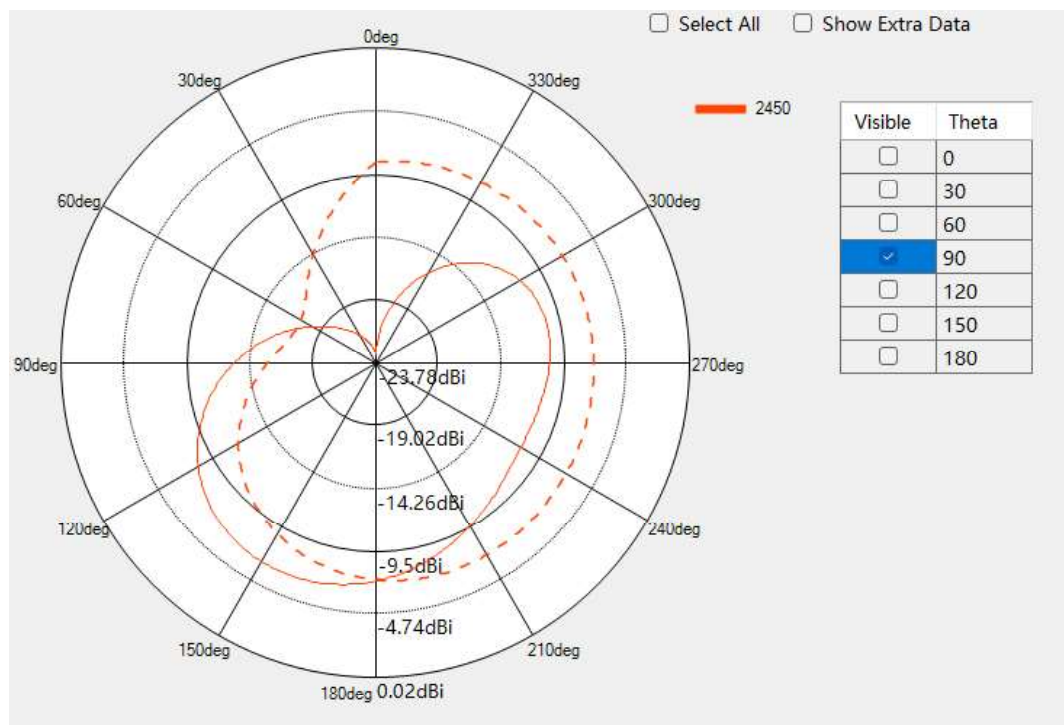


Left Ear 3D Antenna Pattern, unit: dBi



Right Ear 3D Antenna Pattern, unit: dBi

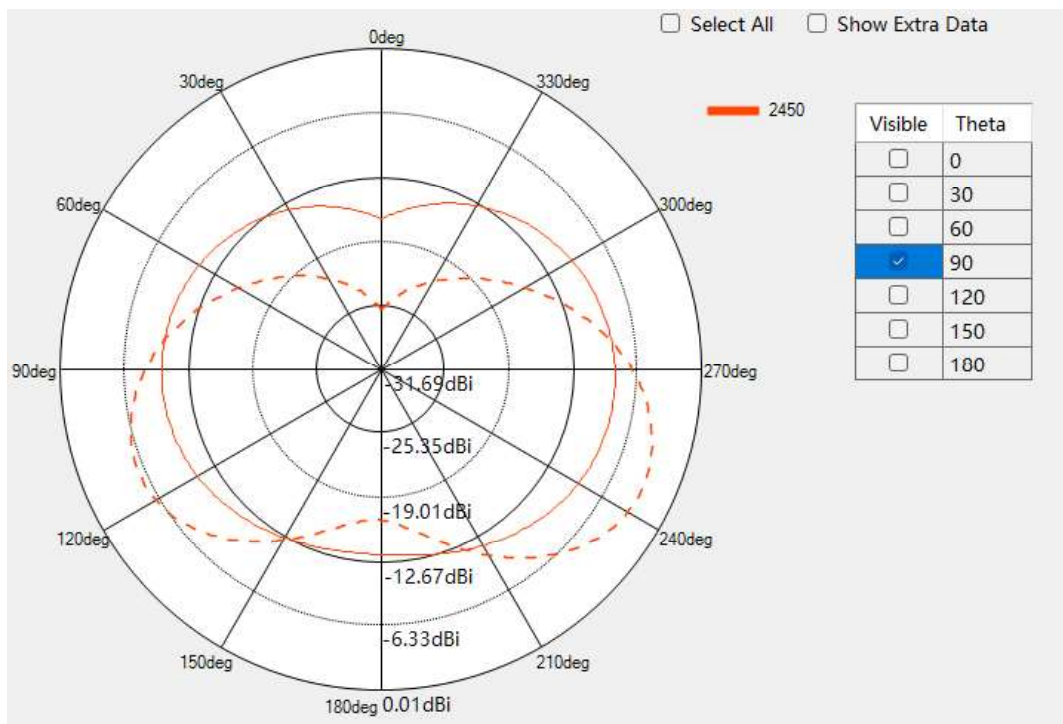
3.3.2 2D Pattern



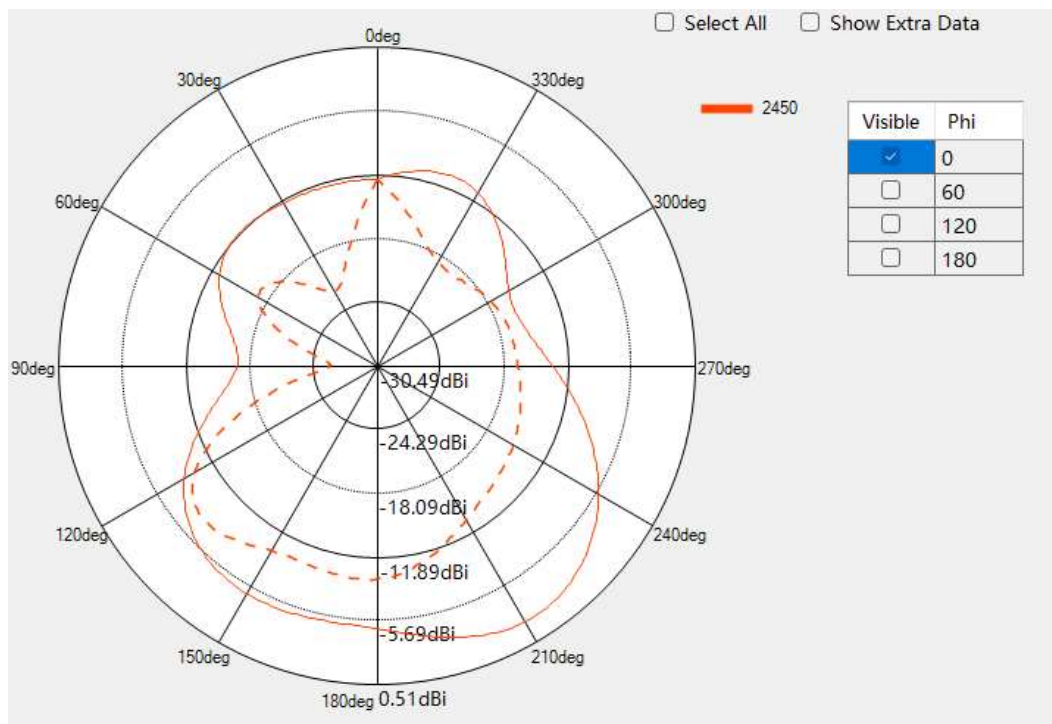
Theta=90°, Left Ear 2D Antenna Pattern, unit: dBi



Phi=0° , Left Ear 2D Antenna Pattern, unit: dBi



Theta=90° , Right Ear 2D Antenna Pattern, unit: dBi



Phi = 0° , Right Ear 2D Antenna Pattern, unit: dBi

Part IV、 Test Equipment

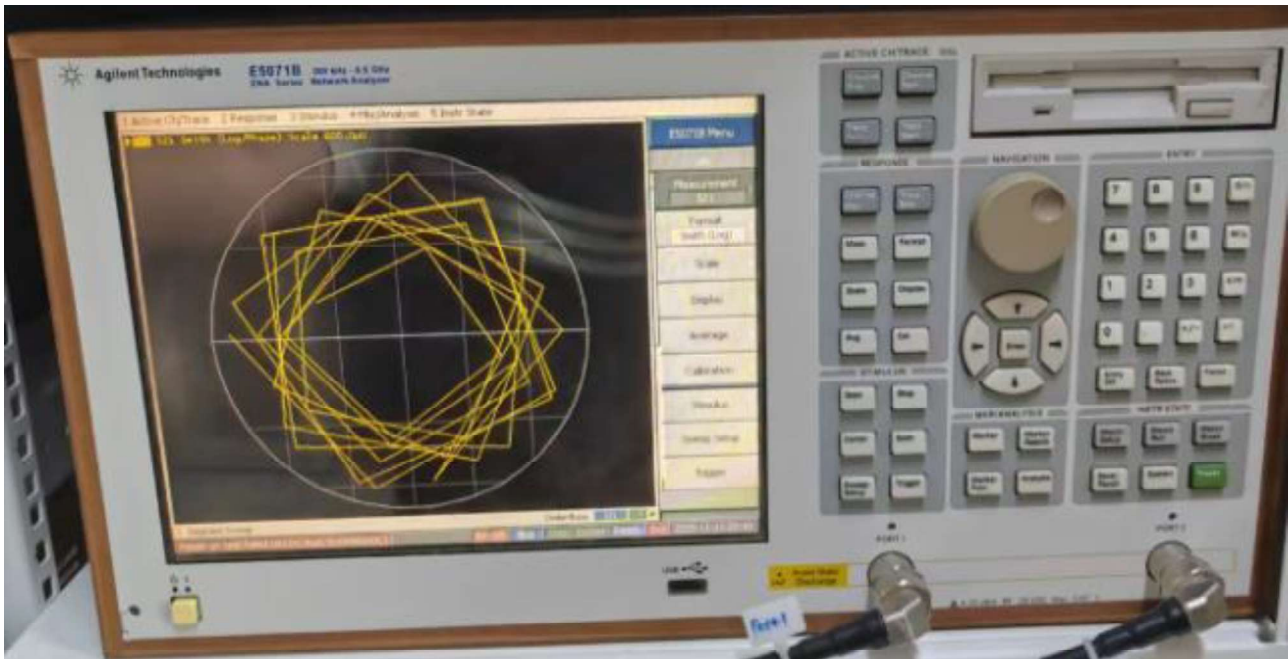
4.1 Compact OTA Test System

Model: RayZone 1800

Calibration Date: 2025/8/7

Due date: 2026/8/6

4.2 Test Equipment



Model: Agilent Technologies E5071B

Calibration Date: 2025/8/7

Due date: 2026/8/6



Model: ROHDE&SCHWARZ CMW 500

Calibration Date: 2025/8/7

Due date: 2026/8/6

4.3 Testing Software



Testing Software Name: Libra

Left Ear