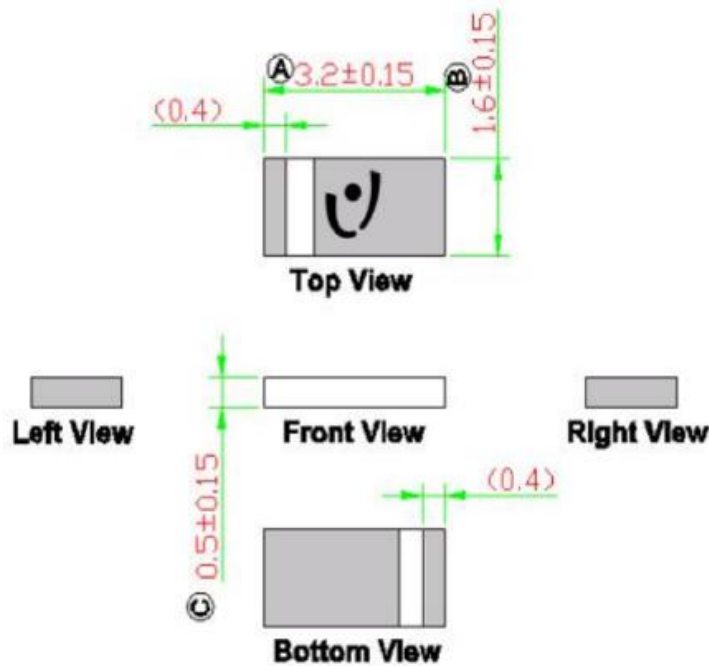


Antenna Specification

1. Antenna Describe

Antenna Manufacturer	Unictron Technologies Corporation
Address	No. 83, Kewang Rd., Longtan Dist., Taoyuan City 325, Taiwan
Antenna Model	AA055
Antenna Type	Chip Antenna
Antenna Gain	1.5dBi Max (2.4G), 2.3dBi Max (5G U-NII-1), 2.6dBi Max (5G U-NII-3)
Frequency Rang	2400-2500MHz, 5150-5850MHz
VSWR	≤ 2
Input Impedance	50 Ω

2. External View Drawing



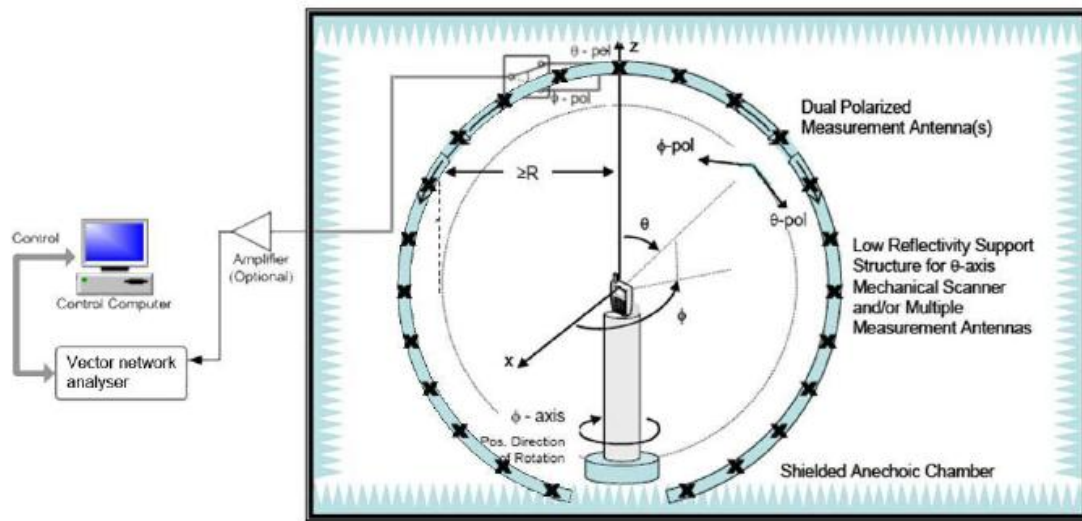
NOTE:

- 1.All materials are RoHS compliant.
- 2."A~C" Critical Dimensions.
- 3."()" Reference Dimensions.

Unit: mm

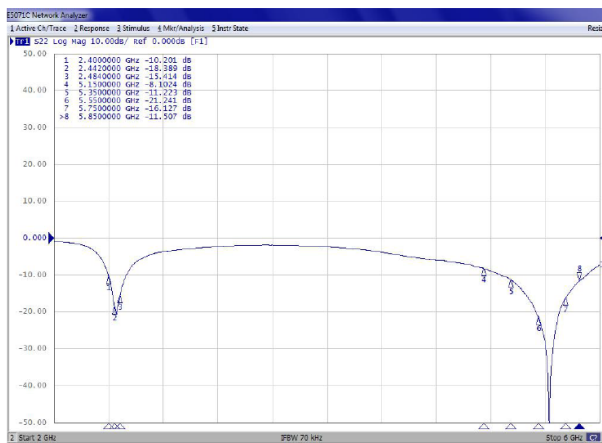
3. Measurement Result

3.1 Test Setup

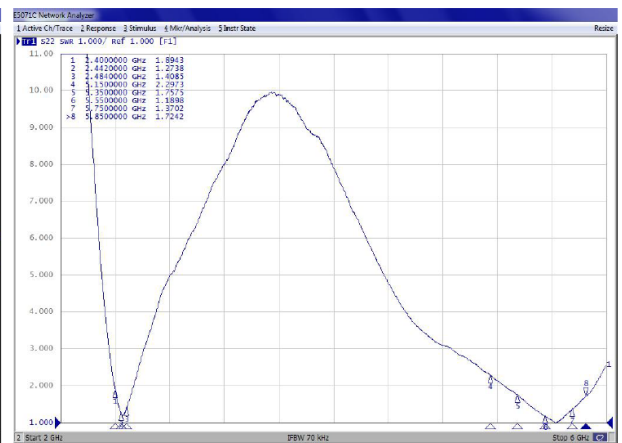


3.2 S11 Parameter

Return Loss (S_{11})



VSWR (S_{11})



3.3 Antenna test data

2.4G

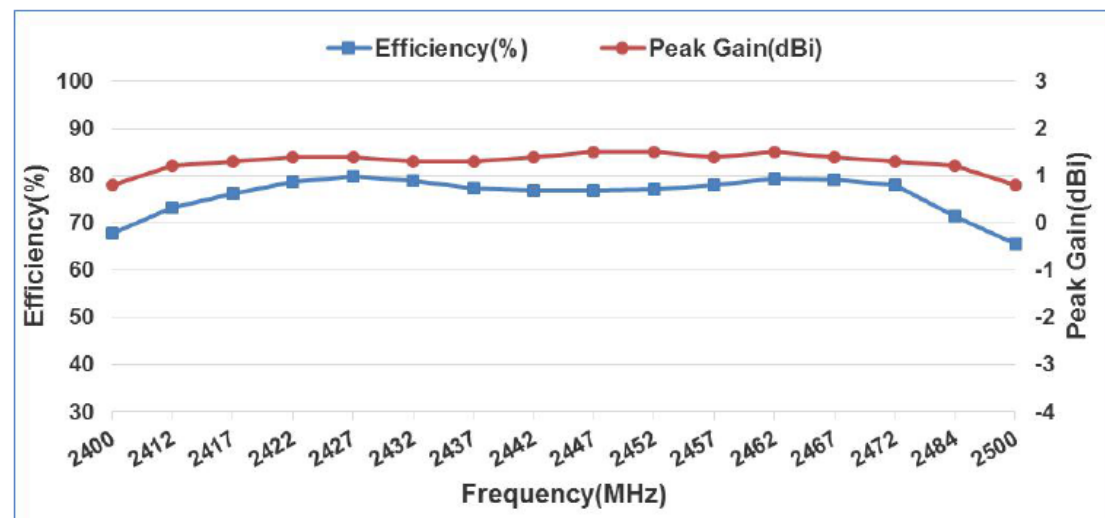
Frequency(MHz)	2400	2412	2417	2422	2427	2432	2437	2442	2447	2452	2457	2462	2467	2472	2484	2500
Efficiency(dB)	-1.7	-1.4	-1.2	-1.0	-1.0	-1.0	-1.1	-1.1	-1.2	-1.1	-1.1	-1.0	-1.0	-1.1	-1.5	-1.8
Efficiency(%)	67.9	73.2	76.1	78.7	79.9	78.8	77.4	76.8	76.8	77.2	78.1	79.3	79.2	78.1	71.5	65.5
Peak Gain(dBi)	0.8	1.2	1.3	1.4	1.4	1.3	1.3	1.4	1.5	1.5	1.4	1.5	1.4	1.3	1.2	0.8

5G

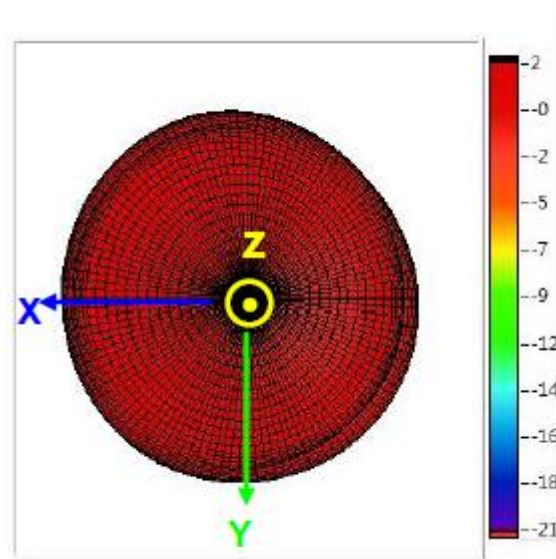
Frequency(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Efficiency(dB)	-1.5	-1.4	-1.8	-1.5	-1.4	-1.8	-2.0	-1.6	-1.7	-1.6	-1.4	-1.6	-1.8	-1.5	-1.9
Efficiency(%)	71.5	71.9	65.7	71.6	71.9	65.8	63.2	69.9	67.3	69.6	71.7	68.9	66.6	70.1	64.6
Peak Gain(dBi)	2.2	2.3	2.0	2.3	2.1	2.1	2.0	2.4	2.3	2.8	2.9	2.6	2.5	2.6	2.2

3.4 Antenna test diagram

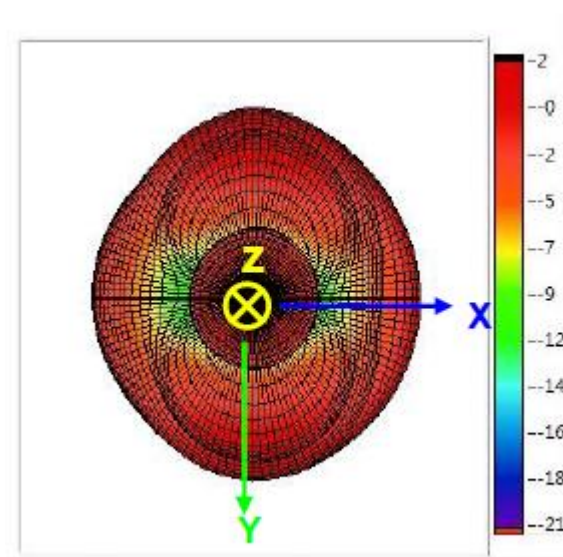
2.4G 2D Gain Pattern



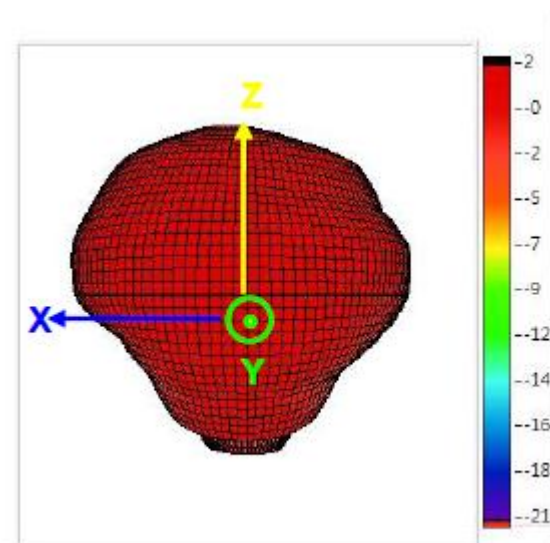
2.4G 3D Gain Pattern



2442MHz

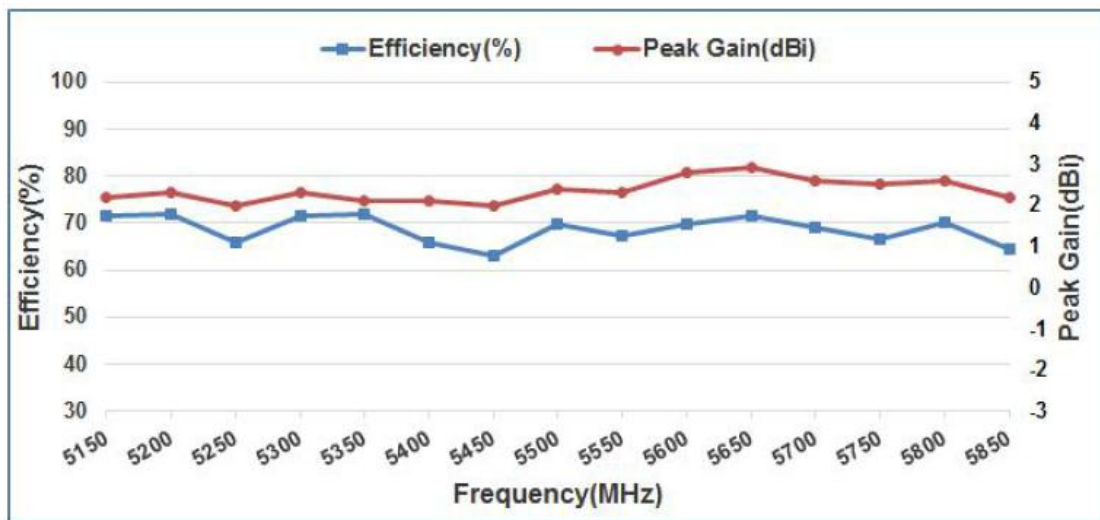


2442MHz

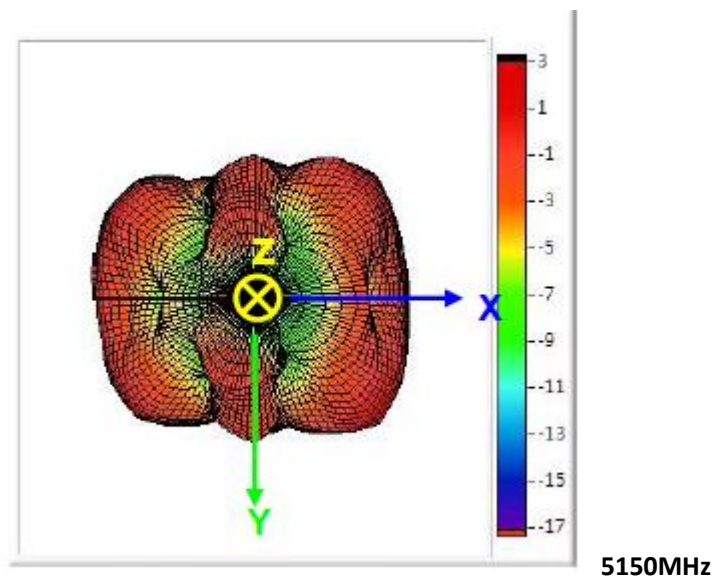
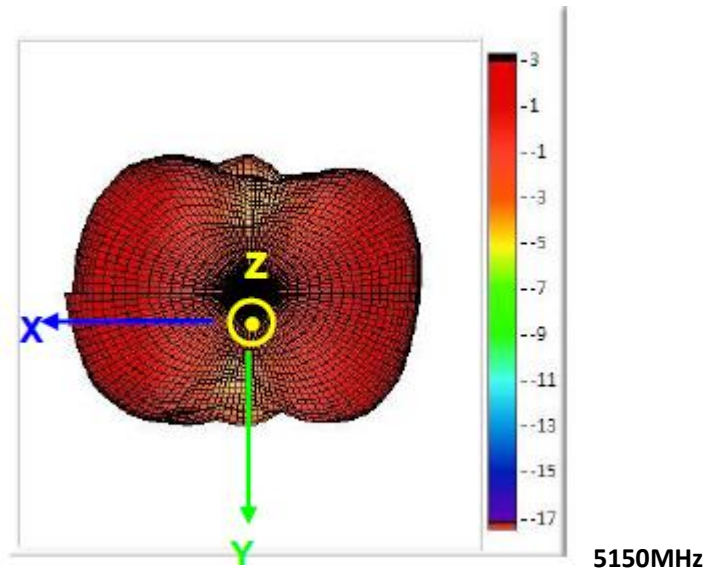


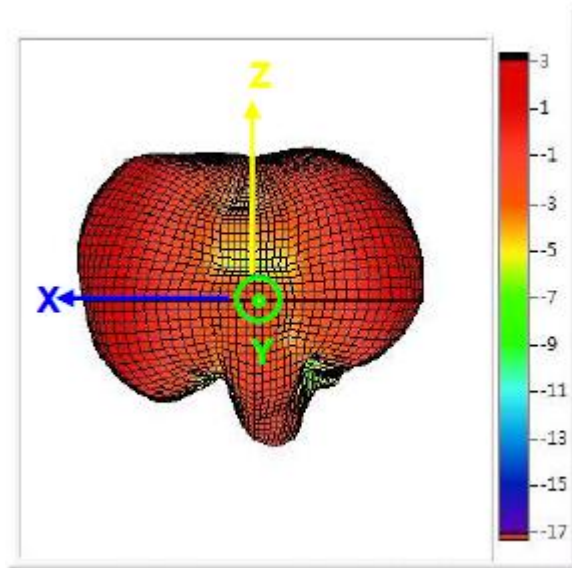
2442MHz

5G 2D Gain Pattern

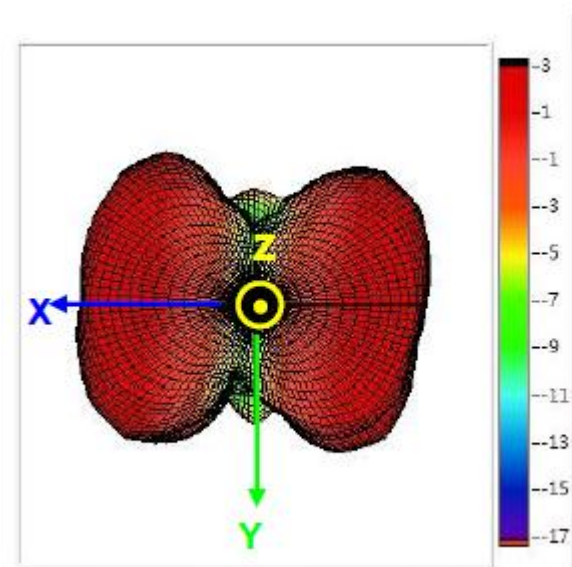


5G 3D Gain Pattern

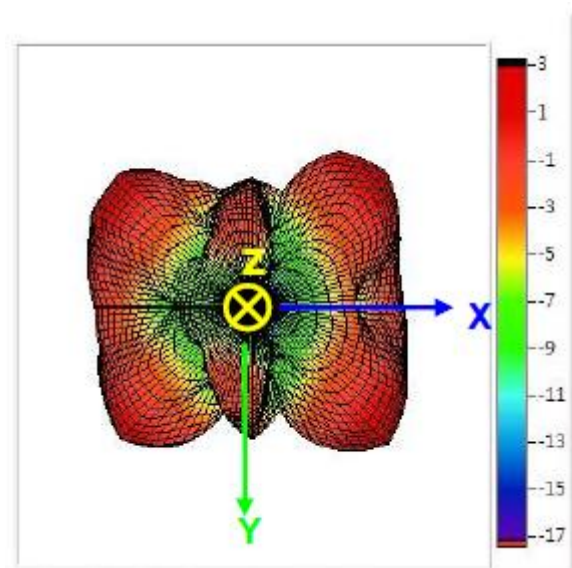




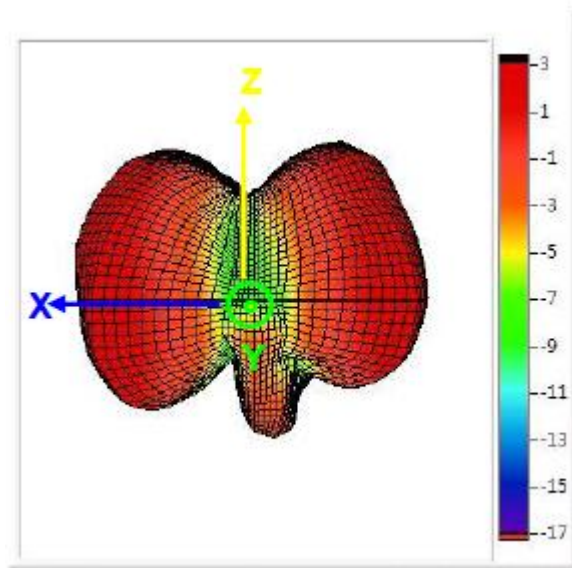
5150MHz



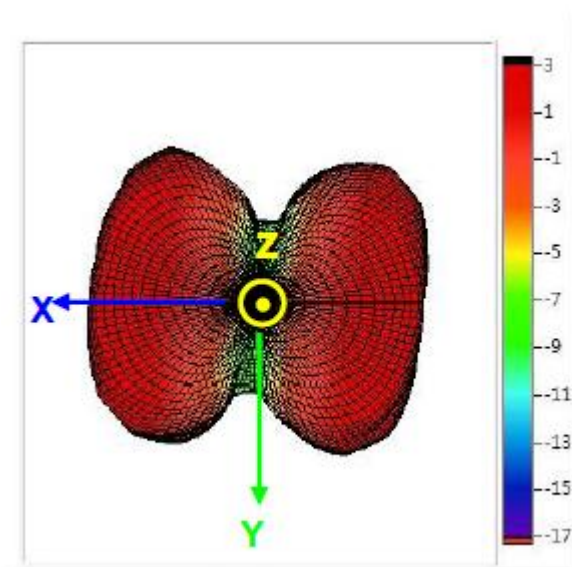
5550MHz



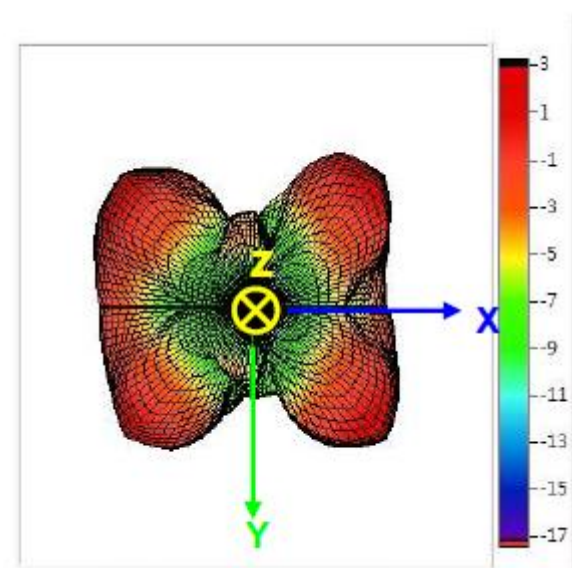
5550MHz



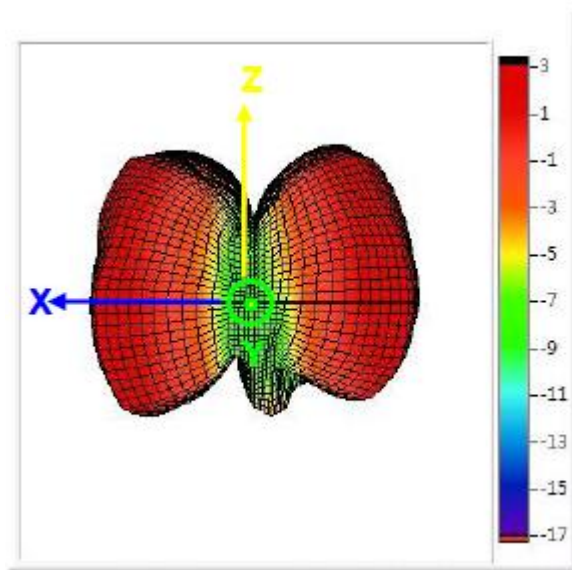
5550MHz



5850MHz



5850MHz



5850MHz