



Kirchhoff
Technology Co., Ltd

KB64A/B/C
Antenna Specification

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Revision 1.0.0
Oct. 27th, 2016



Revision History

Revision	Date	Description
V1.0.0	2016/Oct/27	Initial release

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1. Module Antenna

Frequency: 2400MHz ~ 2483.5MHz

Antenna Type: PCB antenna

Impedance: 50ohm

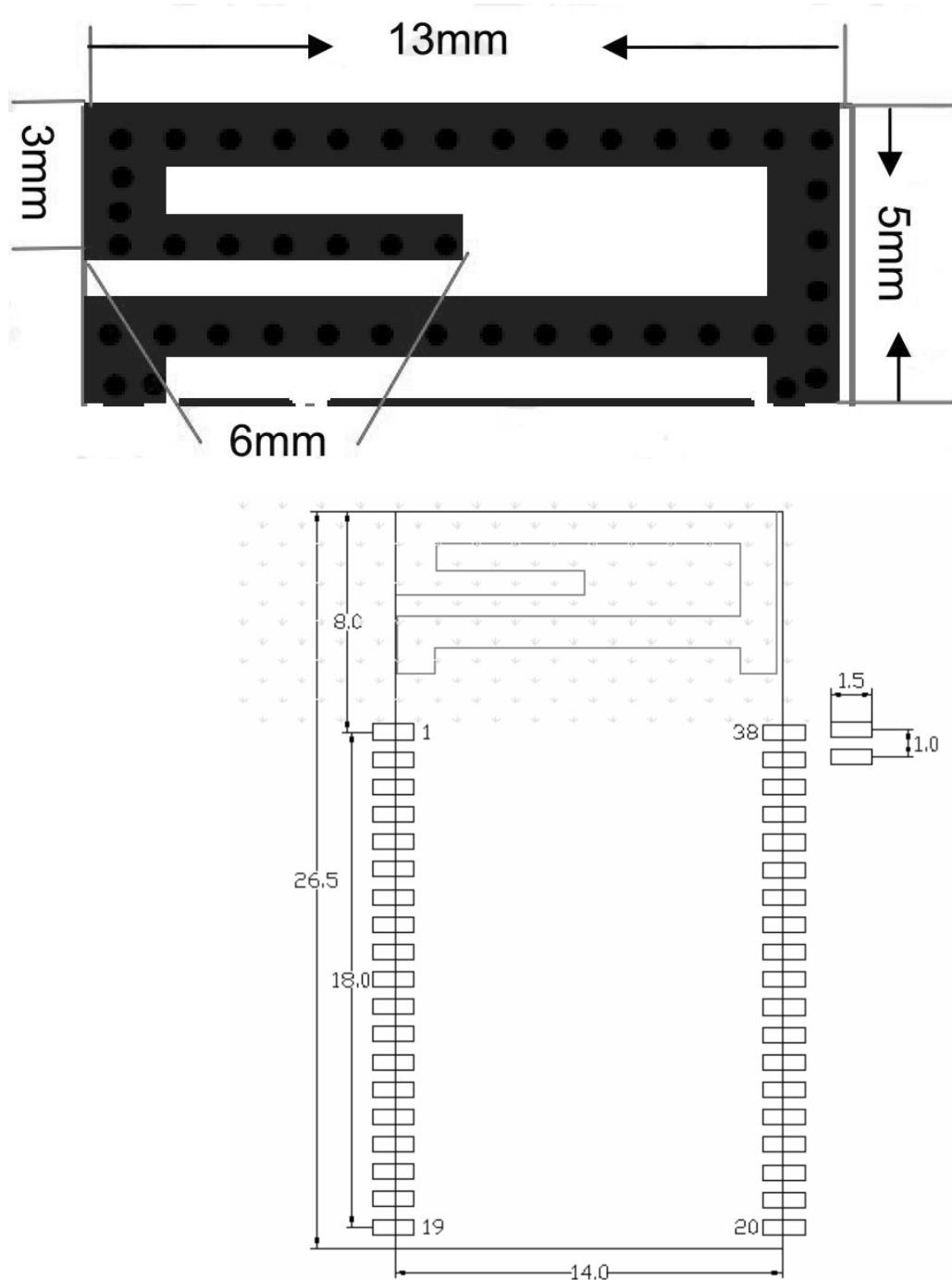


Fig 1. Dimension of KB64ABC Antenna

2. Coordinate System and Test Environment

2.1 List Of Test Equipments

No.	Type	Specification
1	E5071B Vector Network Analyzer	Manufacturer: Agilent
2	4*4*4 Full Anechoic Chamber	Manufacturer: Satimo
3	Antenna Measurement System	Manufacturer: Satimo

2.2 Environmental Conditions

Test Environment Conditions:

Relative Humidity:	25... 75%
Temperature:	+10 Degree of C to +30 Degree of C

2.3 Coordinate System and Setup

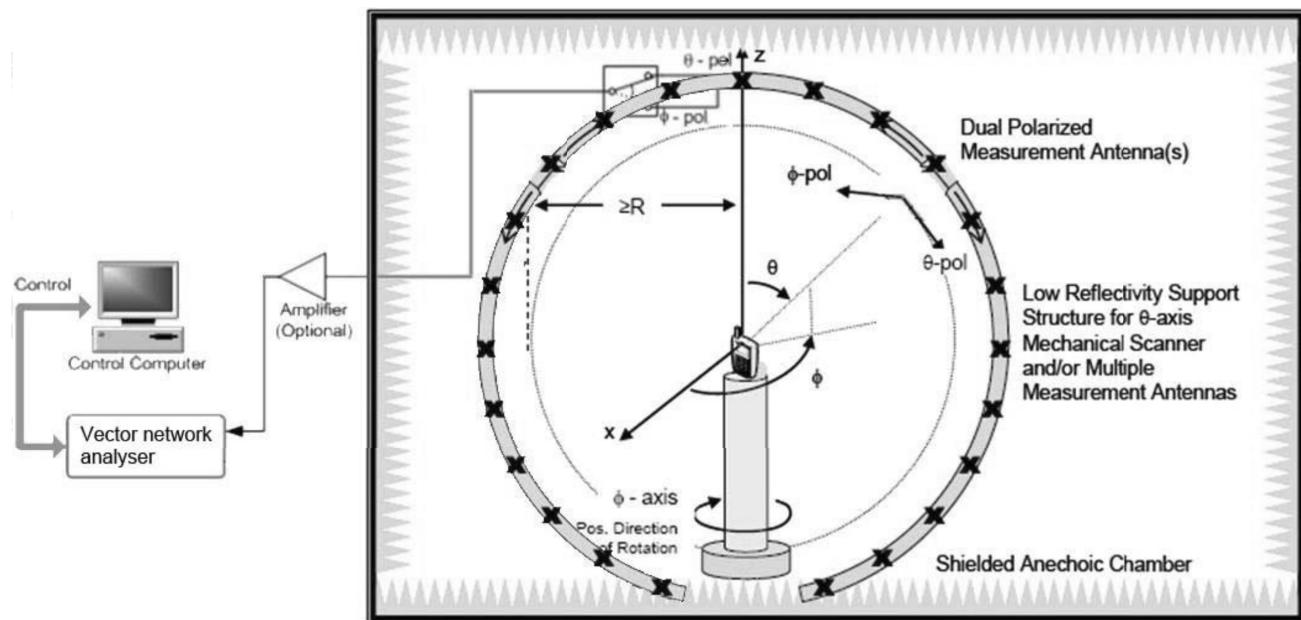


Fig 2. Measurement coordinate system



Fig 3. DUT in Test Environment

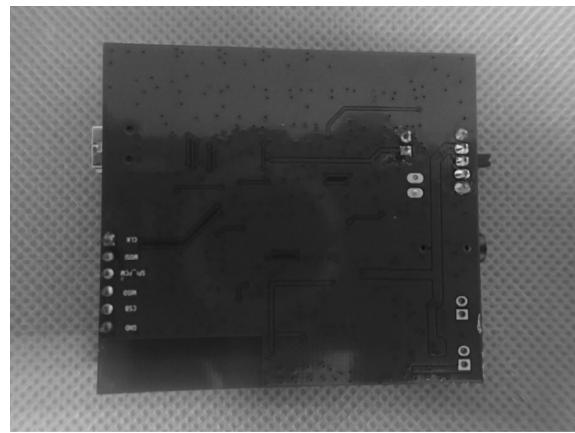
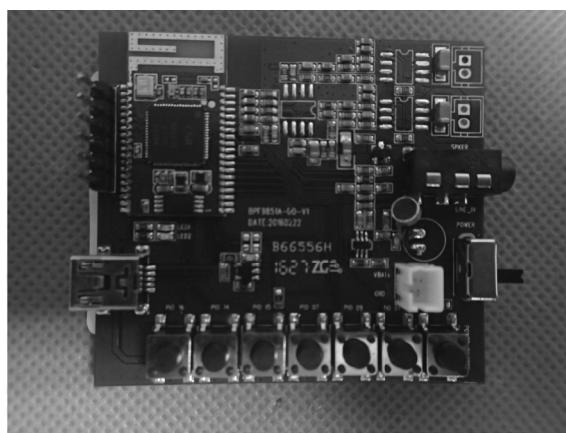


Fig 4. EUT front and back

3. Measurement Result

3.1 2D Radiation Pattern

3.1.1 Phi = 0 Degree

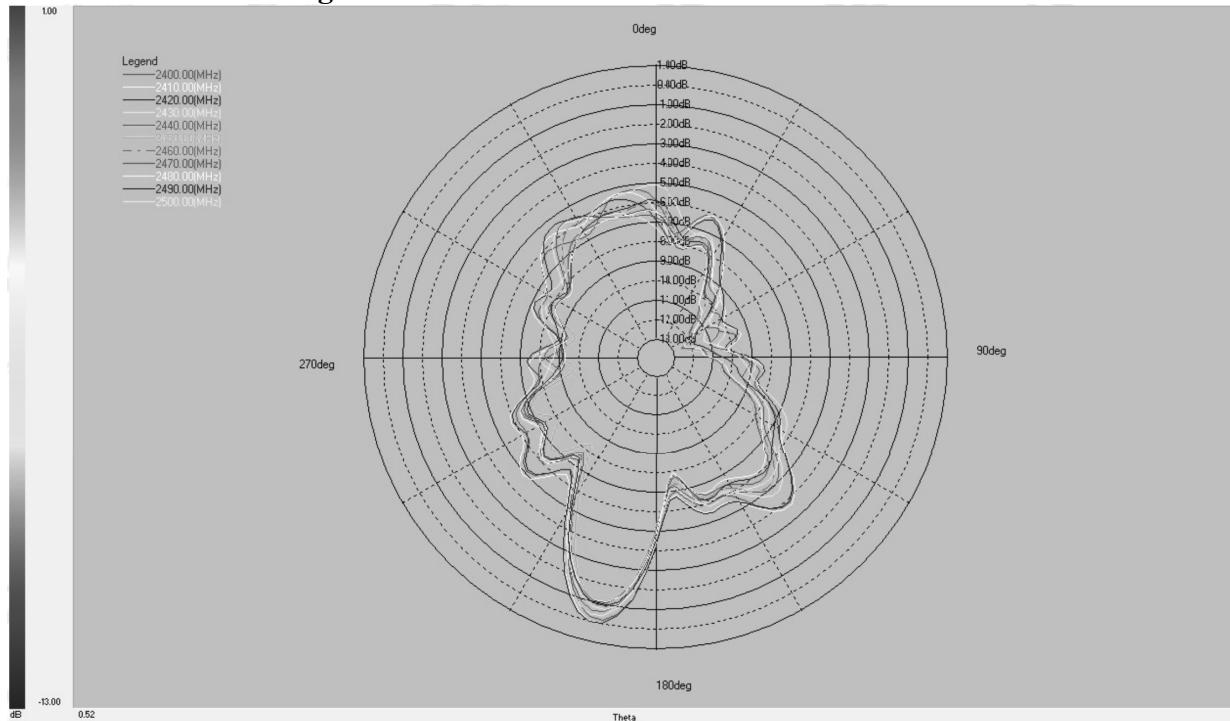


Fig 5. 2D Radiation Pattern Phi = 0 Degree 2400MHz to 2500MHz

3.1.2 Phi = 90 Degree

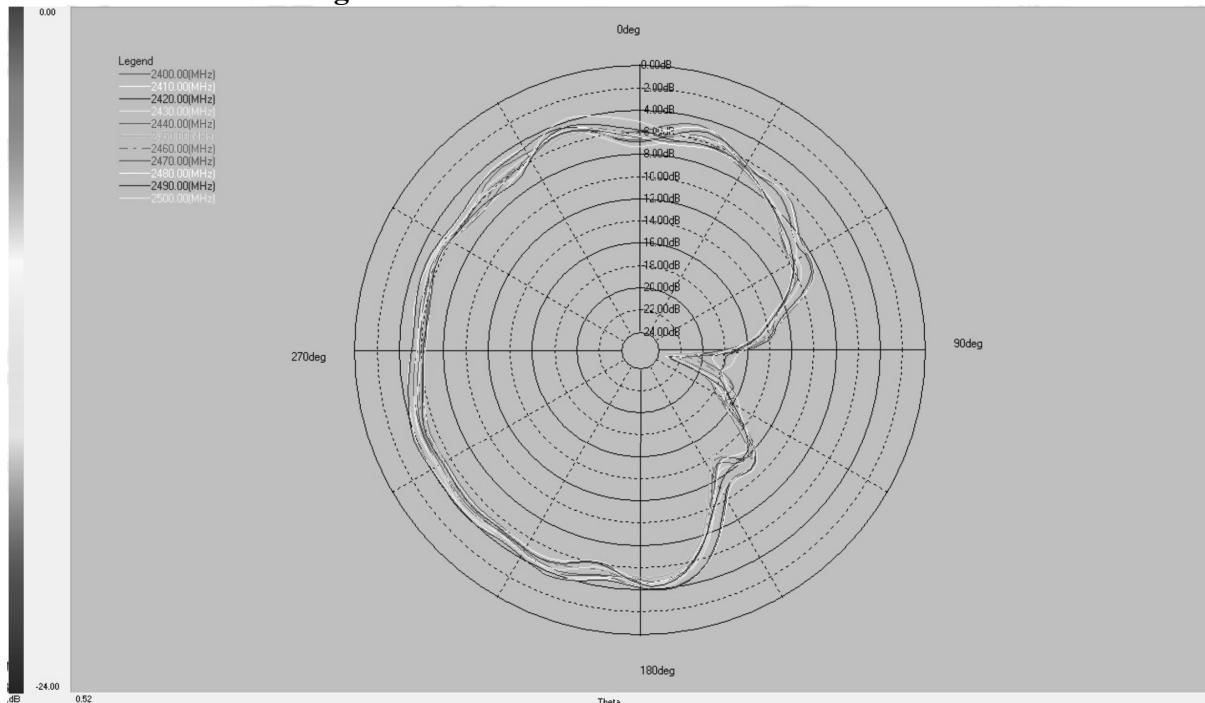


Fig 6. 2D Radiation Pattern Phi = 90 Degree 2400MHz to 2500MHz

3.1.3 Theta = 90 Degree

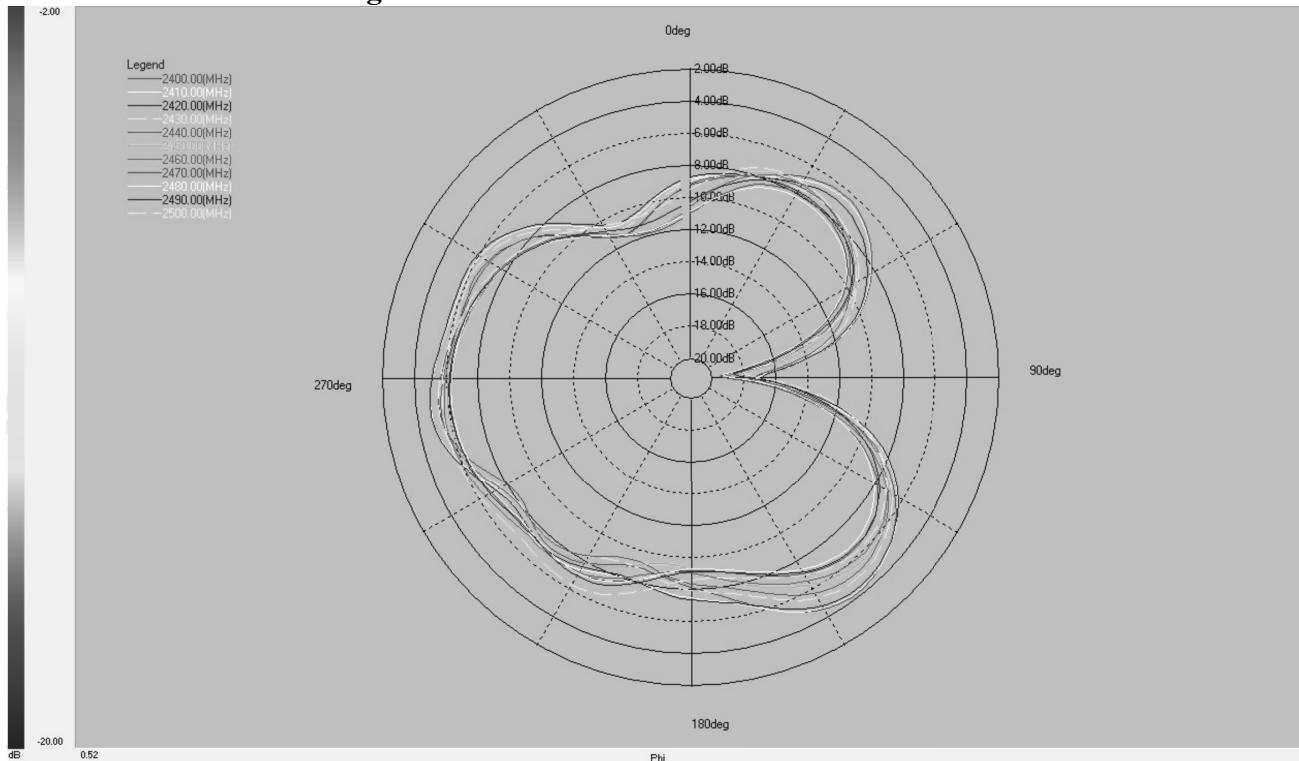


Fig 7. 2D Radiation Pattern Theta = 90 Degree 2400MHz to 2500MHz

3.2 3D Radiation Pattern

3.2.1 Test Result in 2402MHz

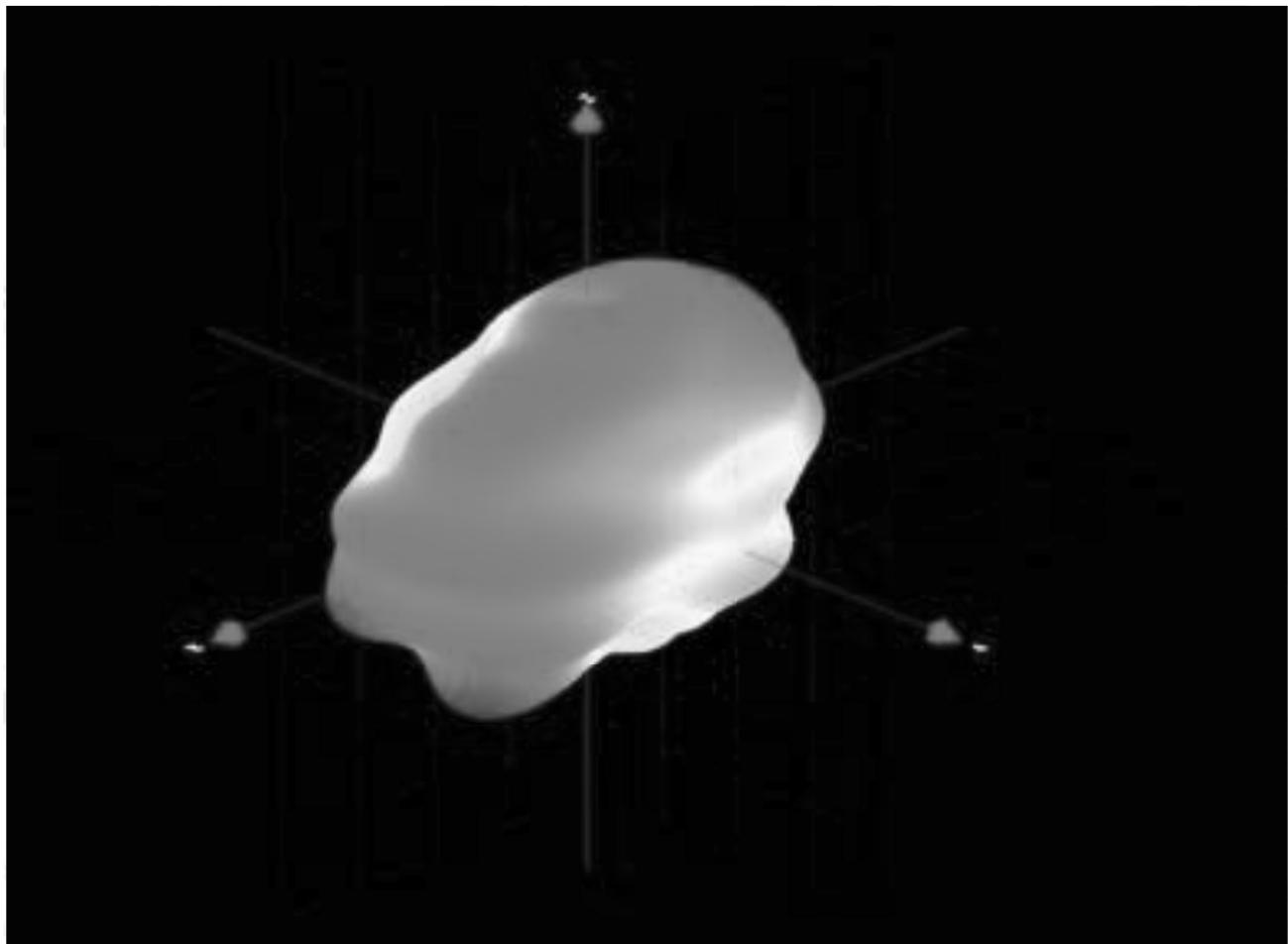


Fig 8. 3D Radiation Pattern in 2402MHz

3.2.2 Test result in 2440MHz

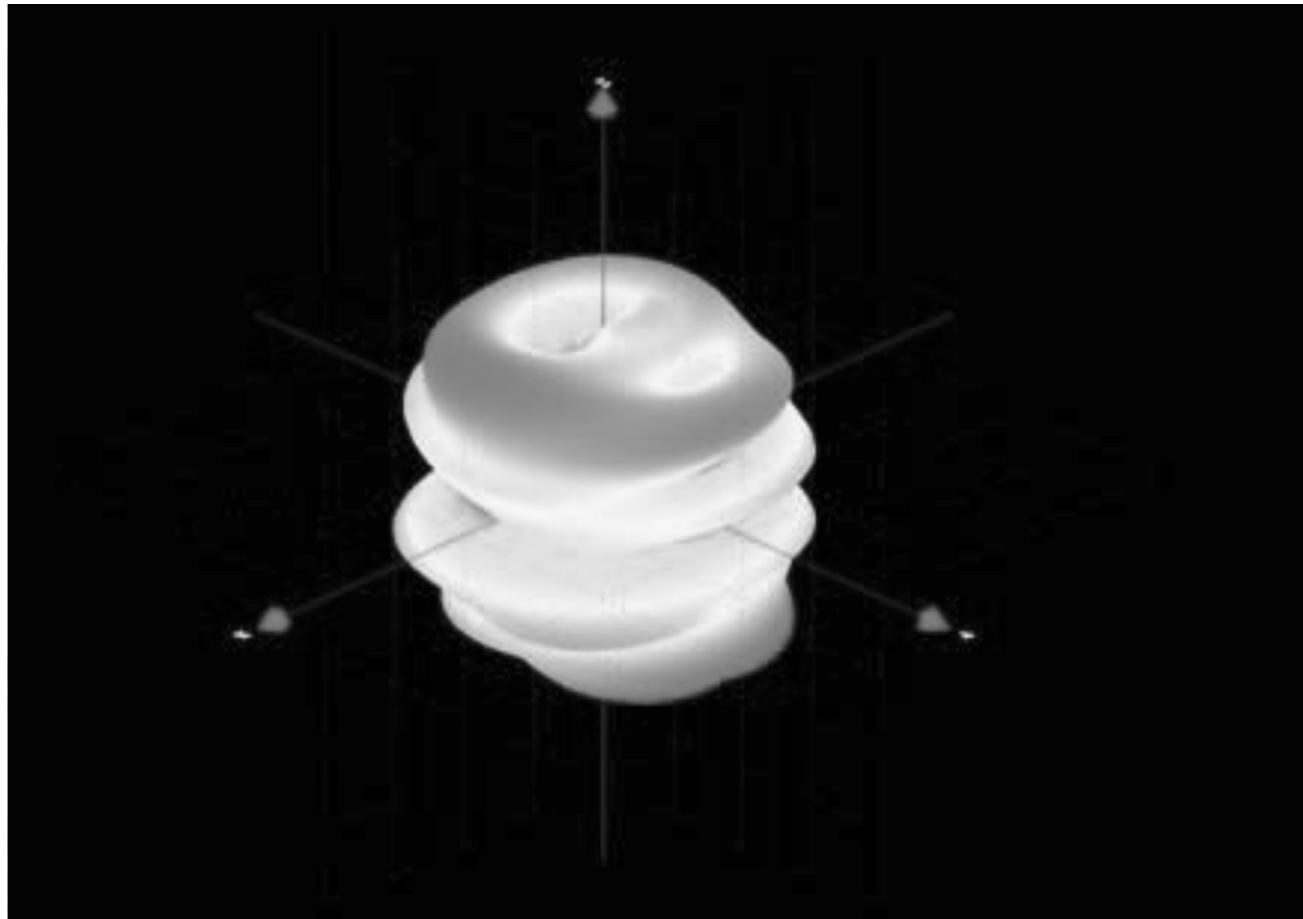


Fig 9. 3D Radiation Pattern in 2440MHz

3.2.3 Test Result in 2480MHz

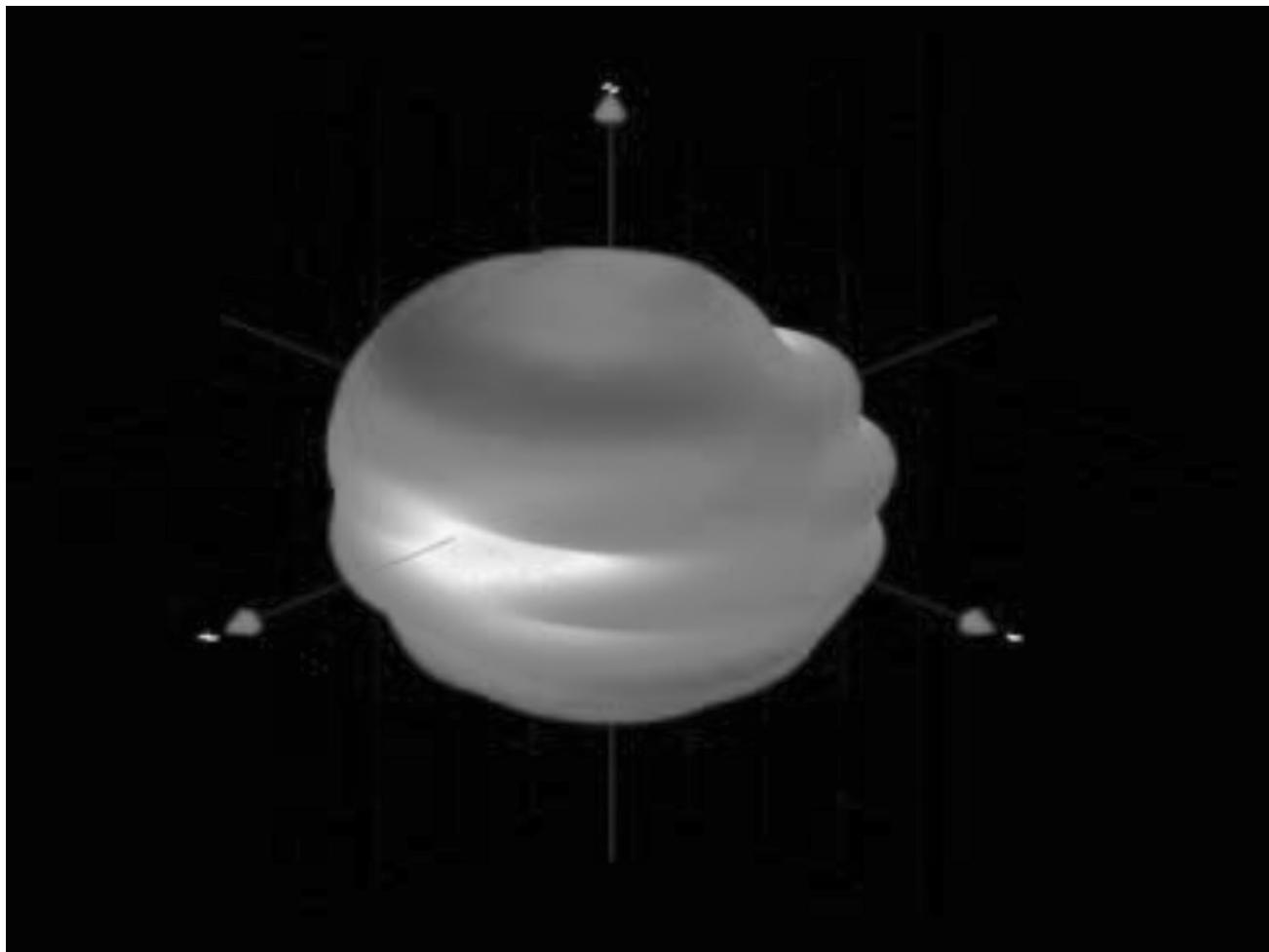


Fig 10. 3D Radiation Pattern in 2480MHz

3.3 Power Gain Result

Frequency	Gain (dBi)
2402MHz	0.11
2440MHz	-0.32
2480MHz	-1.02

4. Reference Documents

No	Identity	Document Title
1	IEEE149-1979	IEEE Standard Test Procedure

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