



Antenna Specification

Manufacture: SYL

Product Name: EK-031-BT 波斯棒 Antenna

Antenna Type: Ceramic Antenna

Test Date: 2026/3/18

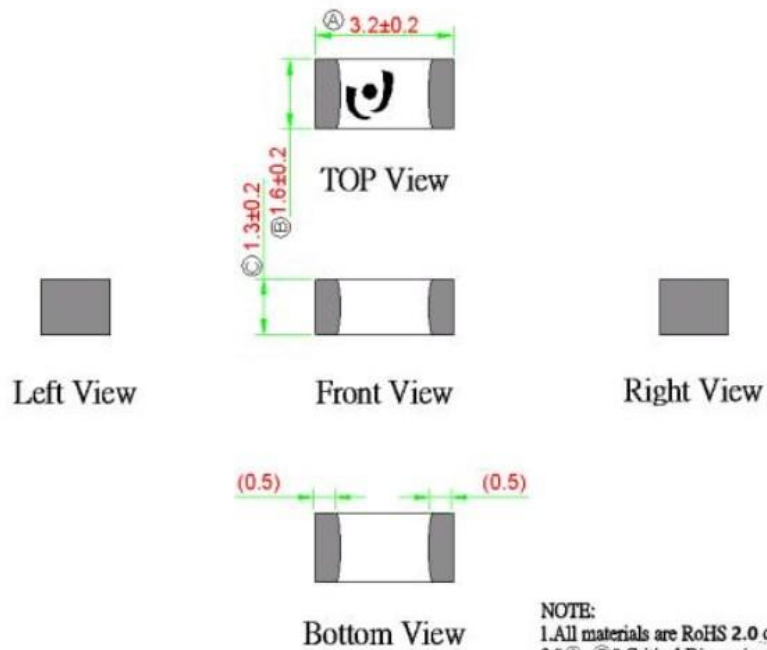
Tested by:	Checked By:	Approved By:
ChengMingWei	DuLin	QianCongGen



1. General Description

Manufacturer:	Dong Guan SYL Technology CO.,LTD
Address:	Room 203,DongHui Industrial Park,No.198 DaTang Road, DongGuan, Guangdong,China
Product Name:	EK-031-BT 波斯棒 Antenna
Product model:	EK-031-BT 波斯棒
Antenna Type:	Ceramic Antenna
Test Frequency:	2400-2500MHz
Antenna Gain:	1.6dBi
VSWR:	<2
Impedance:	50Ω
Polarization:	Linear

2.Antenna size:



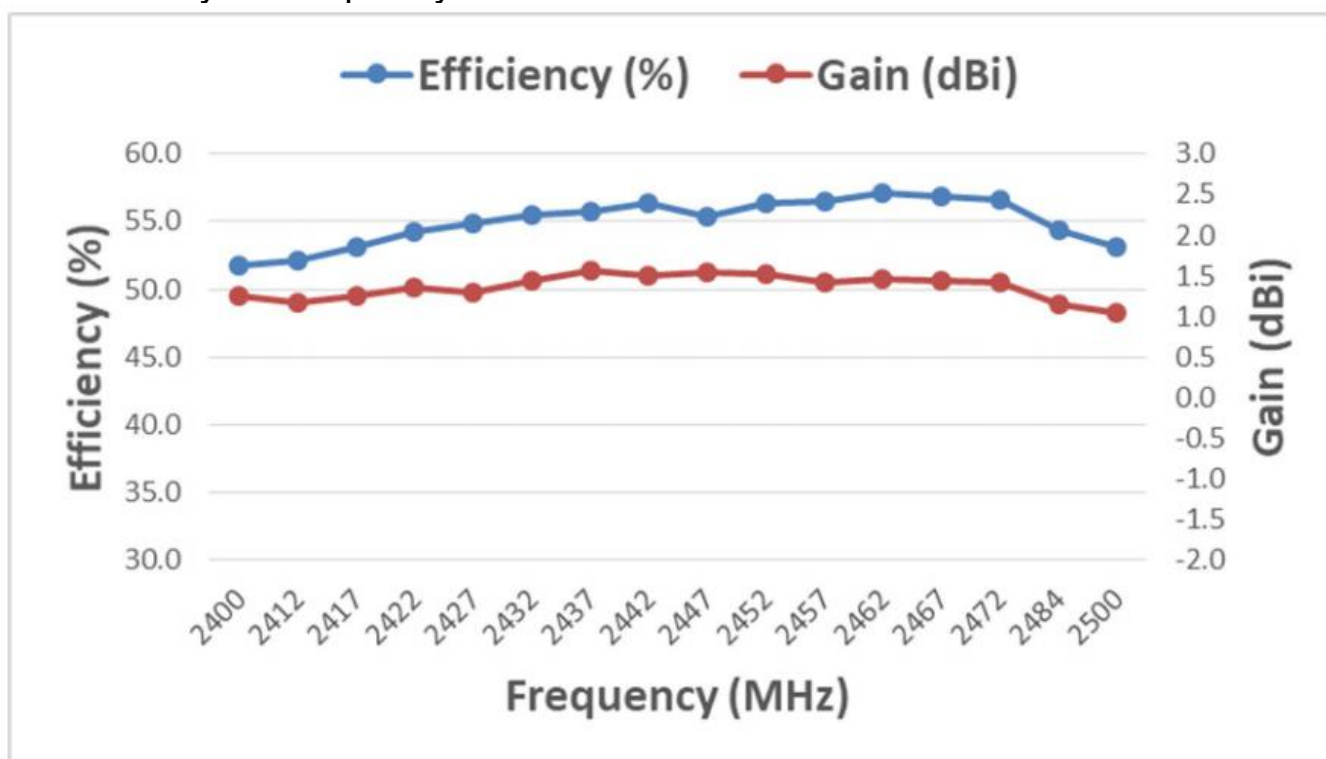
NOTE:
 1.All materials are RoHS 2.0 compliant.
 2."A~C" Critical Dimensions.
 3."()" Reference Dimensions.

3. Gain and Efficiency

3D Efficiency Table

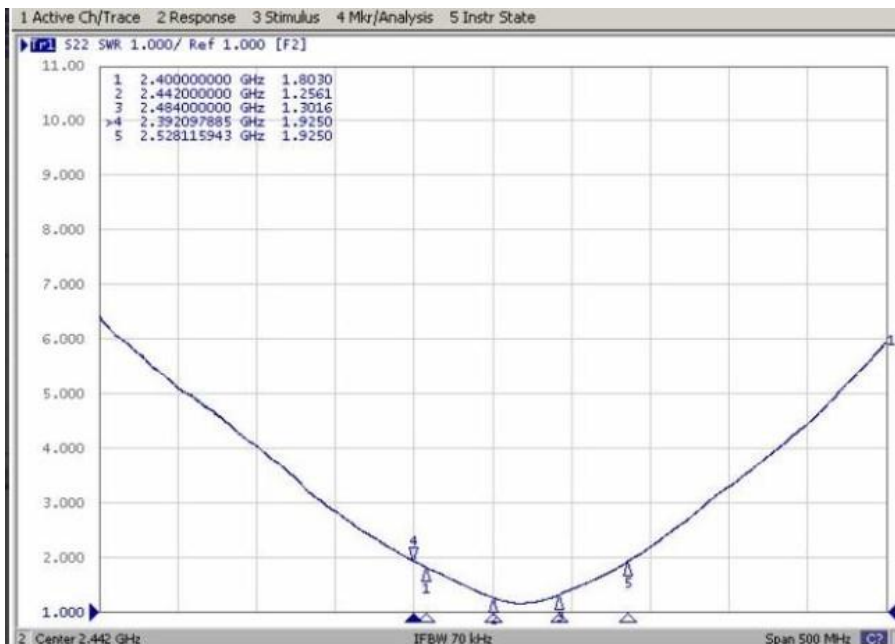
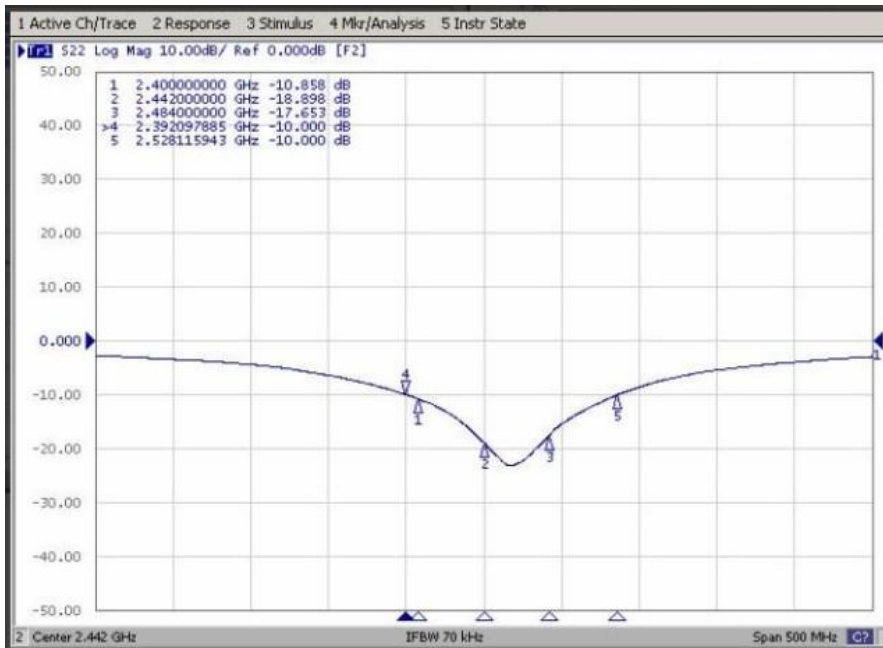
Frequency(MHz)	2400	2412	2417	2422	2427	2432	2437	2442	2447	2452	2457	2462	2467	2472	2484	2500
Efficiency(dB)	-2.9	-2.8	-2.7	-2.7	-2.6	-2.6	-2.5	-2.5	-2.6	-2.5	-2.5	-2.4	-2.5	-2.5	-2.6	-2.7
Efficiency(%)	51.8	52.1	53.1	54.3	54.9	55.5	55.7	56.3	55.4	56.4	56.5	57.1	56.8	56.6	54.4	53.1
Peak Gain(dBi)	1.2	1.2	1.3	1.3	1.3	1.4	1.6	1.5	1.5	1.5	1.4	1.5	1.4	1.4	1.2	1.1

3D Efficiency vs.Frequency



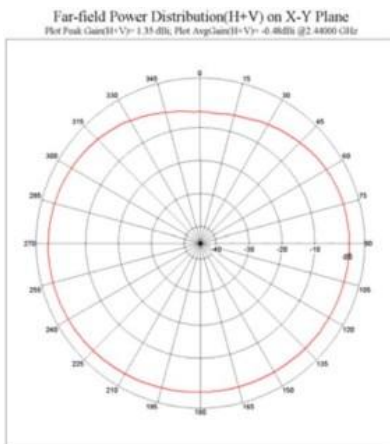


4.ReturnLoss

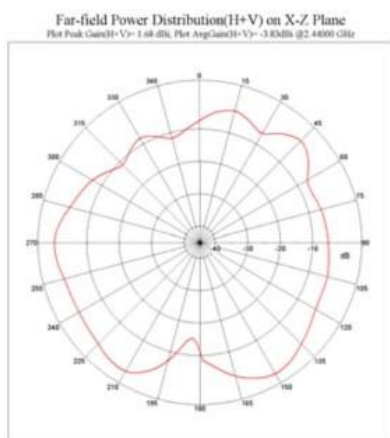




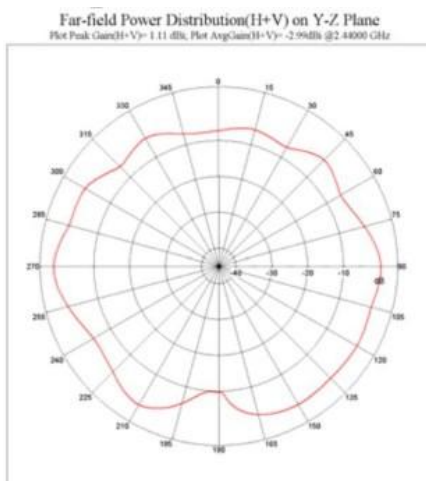
5.XY-Plane



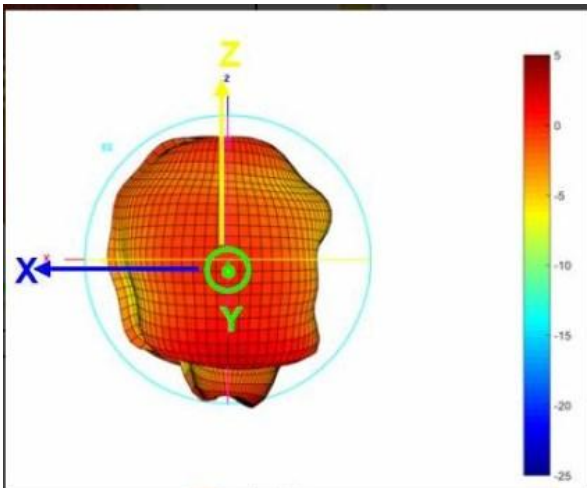
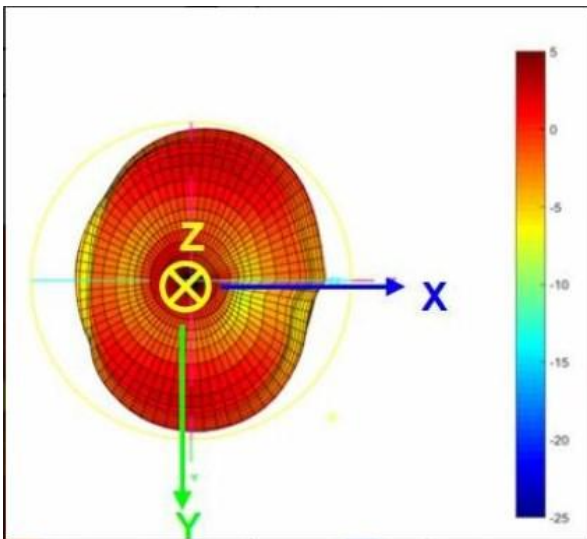
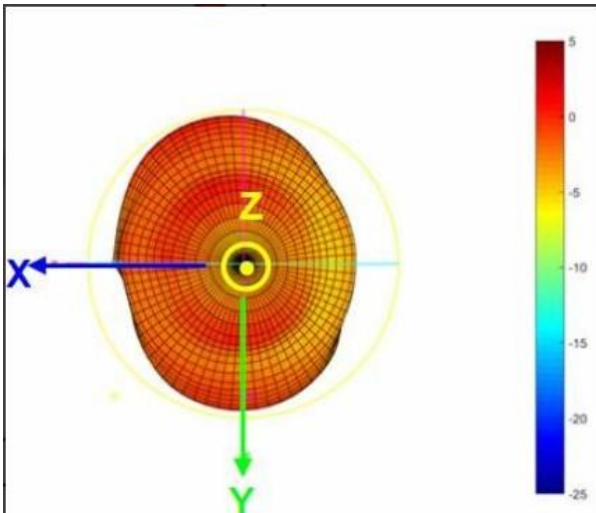
6.XZ-Plane



7. YZ-Plane



8.3D Radiation Pattern Diagram





10.Test Setup Photo

