



South
star

SHENZHEN SOUTH STAR TECHNOLOGY CO., LTD

APPROVAL SHEET

Sample seal

Customer Name Roborock

Product Model Beryl C&Beryl S Shrapnel

Customer P/N 1. 16. 0036

Southstar P/N 3. N204. 0533

Production date 2026. 03. 07

Revision 1. 0

Southstar		
FICTION	DQE	R&D
Customer		
PUR	QC	R&D

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History

Version	Date	Change Description	Note
1.0	2026.03.07	First edition	



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Antenna Specification

A. Electrical Characteristics	
Frequency	2400MHz~ 2500MHz
VSWR	<2
Efficiency	>45%
Impedance	50 Ohm
Polarization	Linear
Gain	2.4G:2.19dBi
Note	
B. Material & Mechanical Characteristics	
Material of Radiator	shrapnel
Cable Type	1.13 red
Connector Type	First generation terminal
C. Environmental	
Operation Temperature	- 30°C ~ +65°C
Storage Temperature	- 40°C ~ +70°C



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Test Equipment & Conditions

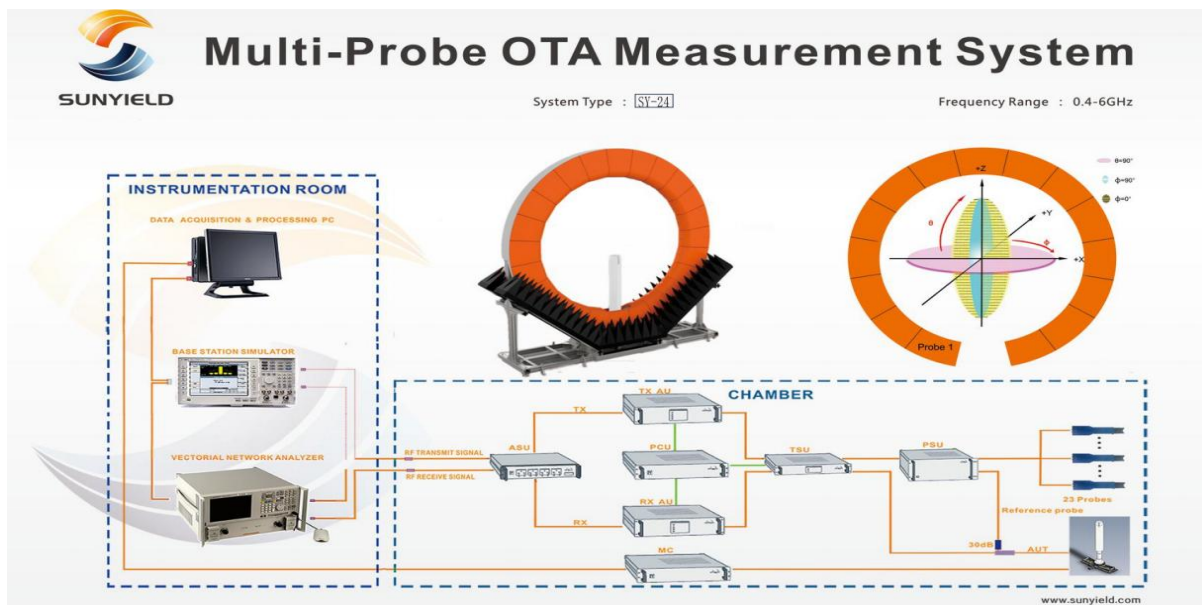
1. NetWork Analyzers:

Keysight E5071C

2. Comprehensive tester:

CMW500 、 MT8000A、 MT8862A

3. 3D Chamber Test System:

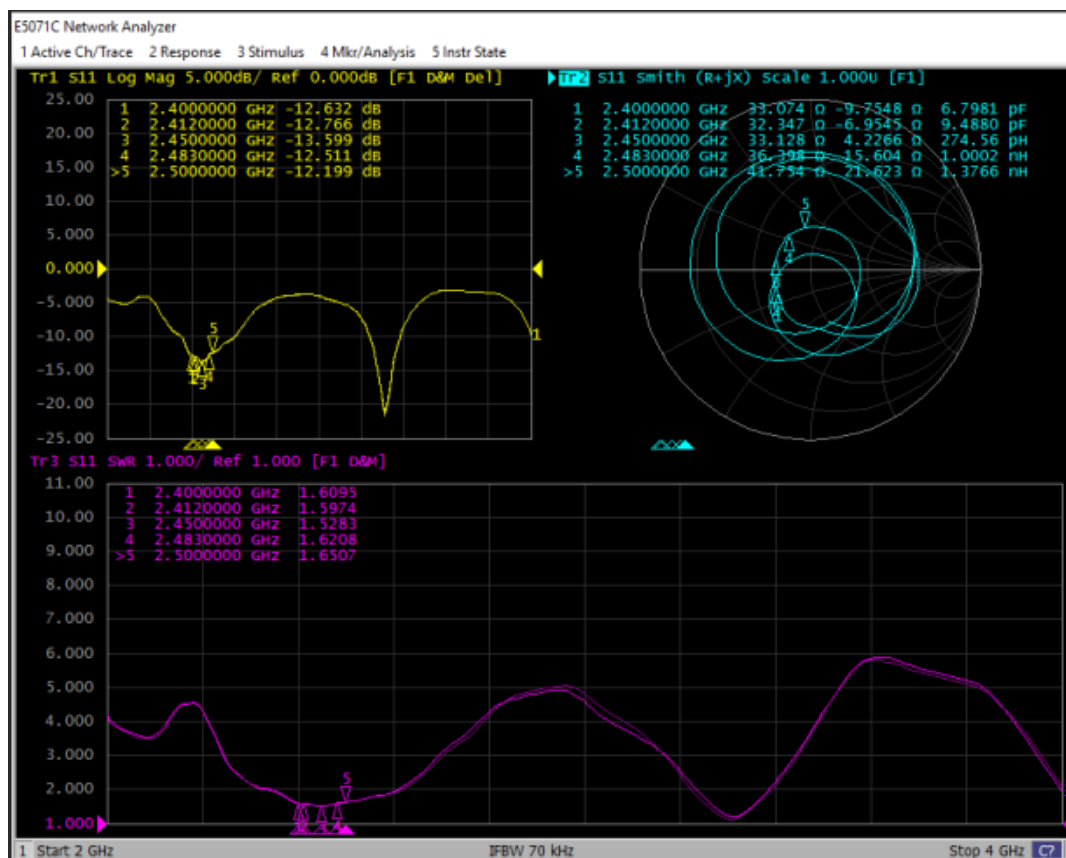




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Antenna Impedance: S11





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Efficiency & Gain:

Freq (MHz)	Effi (%)	Gain (dBi)
2400	48.65	2.00
2410	48.68	2.18
2420	48.85	2.11
2430	49.05	2.18
2440	49.17	2.19
2450	49.90	2.17
2460	49.30	2.16
2470	48.34	2.13
2480	48.48	2.06
2490	48.57	1.87
2500	48.11	1.92

