

DV6107Z BT Ant Passive Test Report

Record for version modification

Date	Revision	Modify Content	Author
2023-3-21	V1.0	1 st Version	Leon_Wu

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1 Test Summary

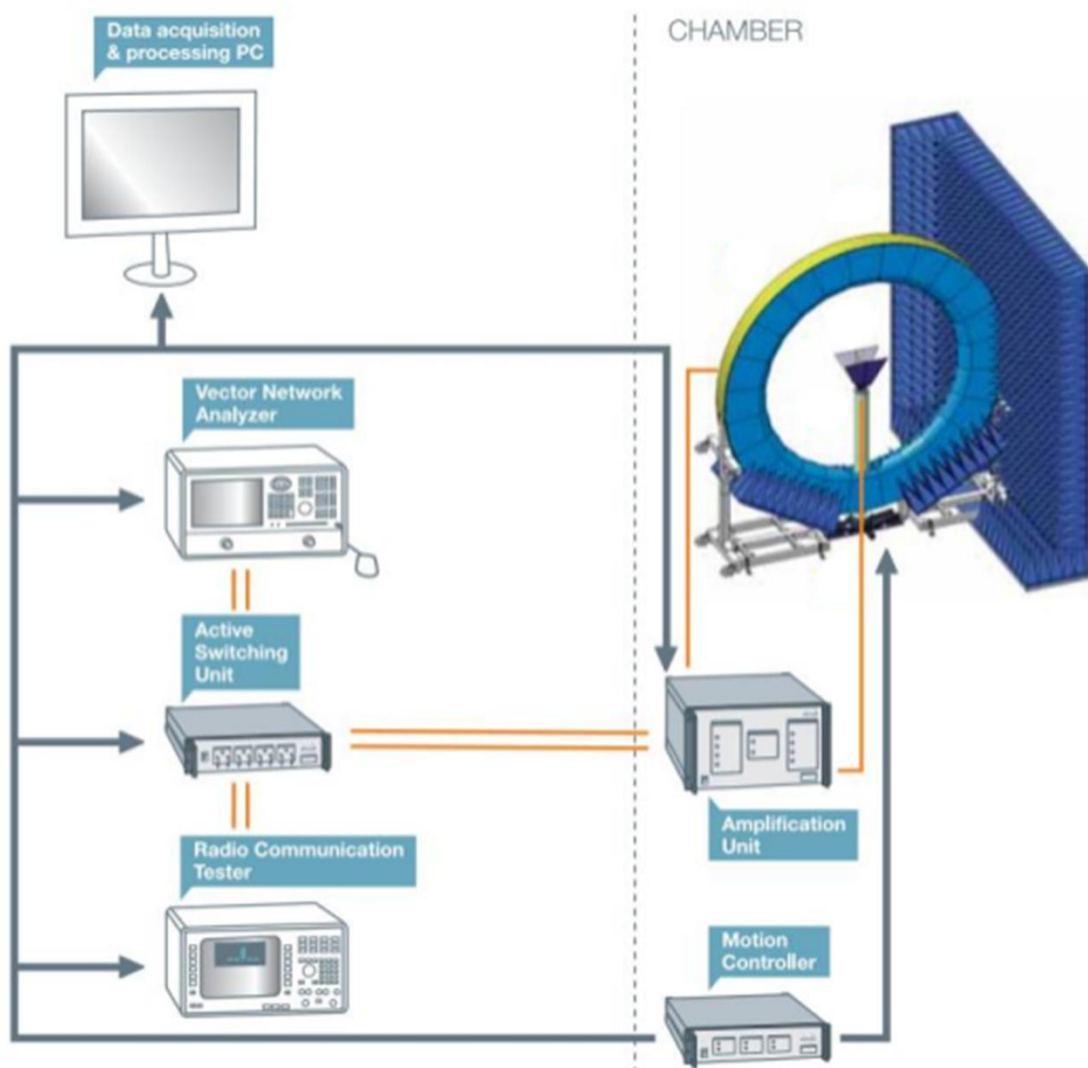
No.	Sample Name	Test item	Conclusion
1	DV6107Z	VSWR	Pass
2		Efficiency & Gain	Pass
3		2D & 3D Radiation Pattern	Pass

2 Test Information

Model No.	DV6107Z
HW Version	MB.XXX.X
SW Version	BaseLine-v11.1.1.1
CPU	Amlogic XXXX
DDR	XXXXXXXXXX
Wi-Fi Module	XXXX/Manufacturer
Tester	XXX
Reviewer	XXX
Approver	XXX
Date	2024.08.20

3 Testing Environment

Chamber	XH Chamber
Wireless Communication Tester	R&S CMW500
Vector Network Analyzer	KEYSIGHT E5071C
Temperature	25±2℃
Humidity	50±20%Rh

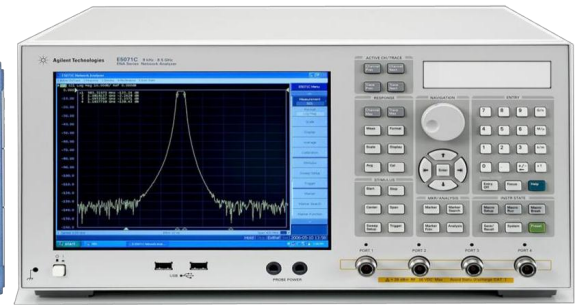




R&S CMW500

Wireless Communication Tester

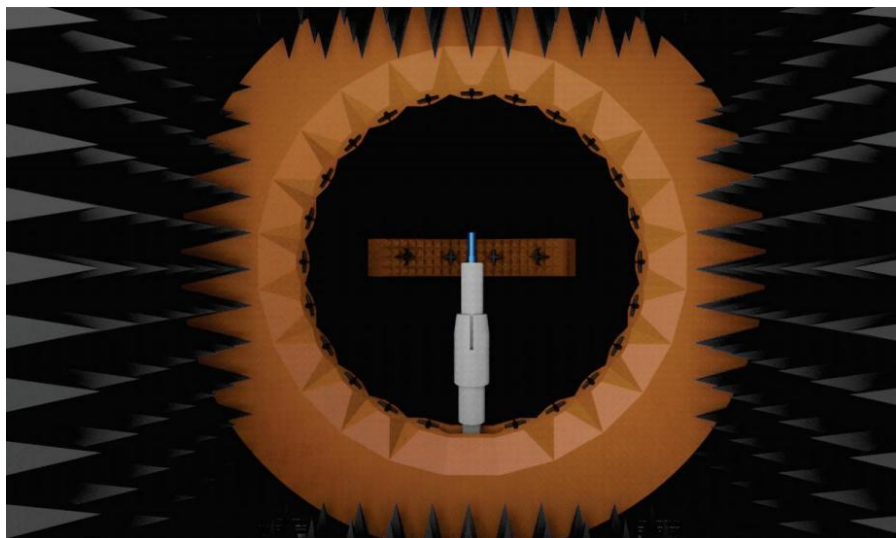
- GSM/3G/4G
- Wi-Fi/ BT
- NB-IoT



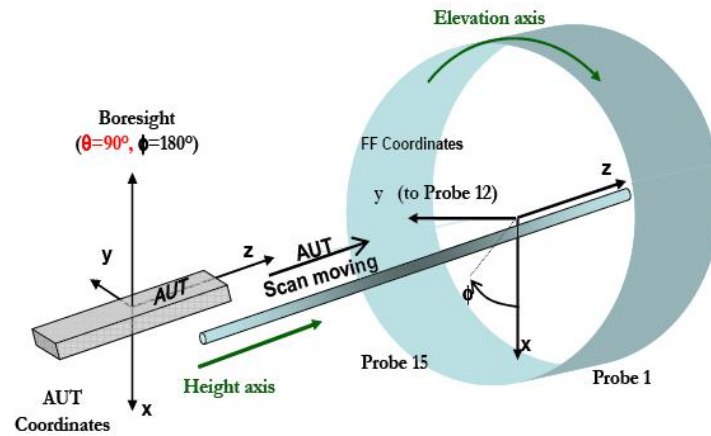
KEYSIGHT E5071C

Vector Network Analyzer

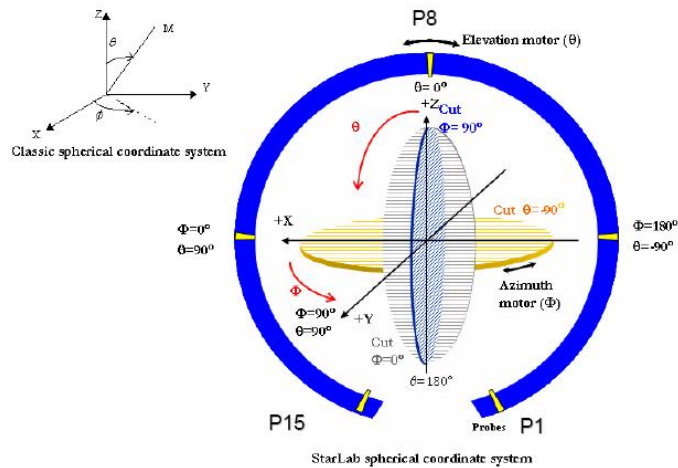
- Frequency: 100 kHz~8.5GHz



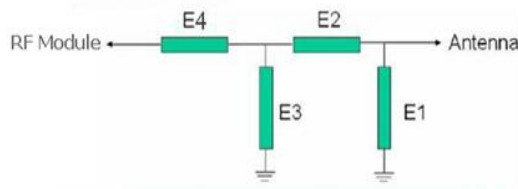
Coordinate system – Cylindrical geometry



Coordinate system – Spherical geometry



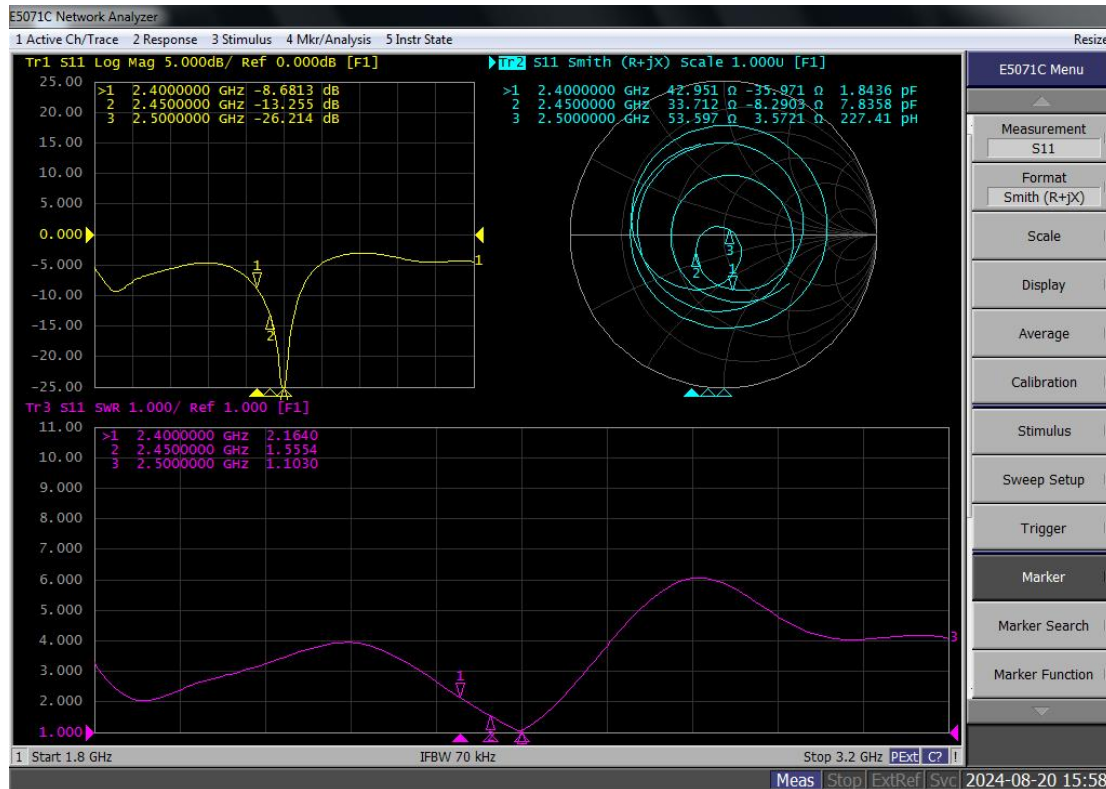
4 Matching Circuit Description



Element	Value
E1	N/A
E2	N/A
E3	N/A
E4	N/A

5 Passive Parameter Test

5.1 VSWR

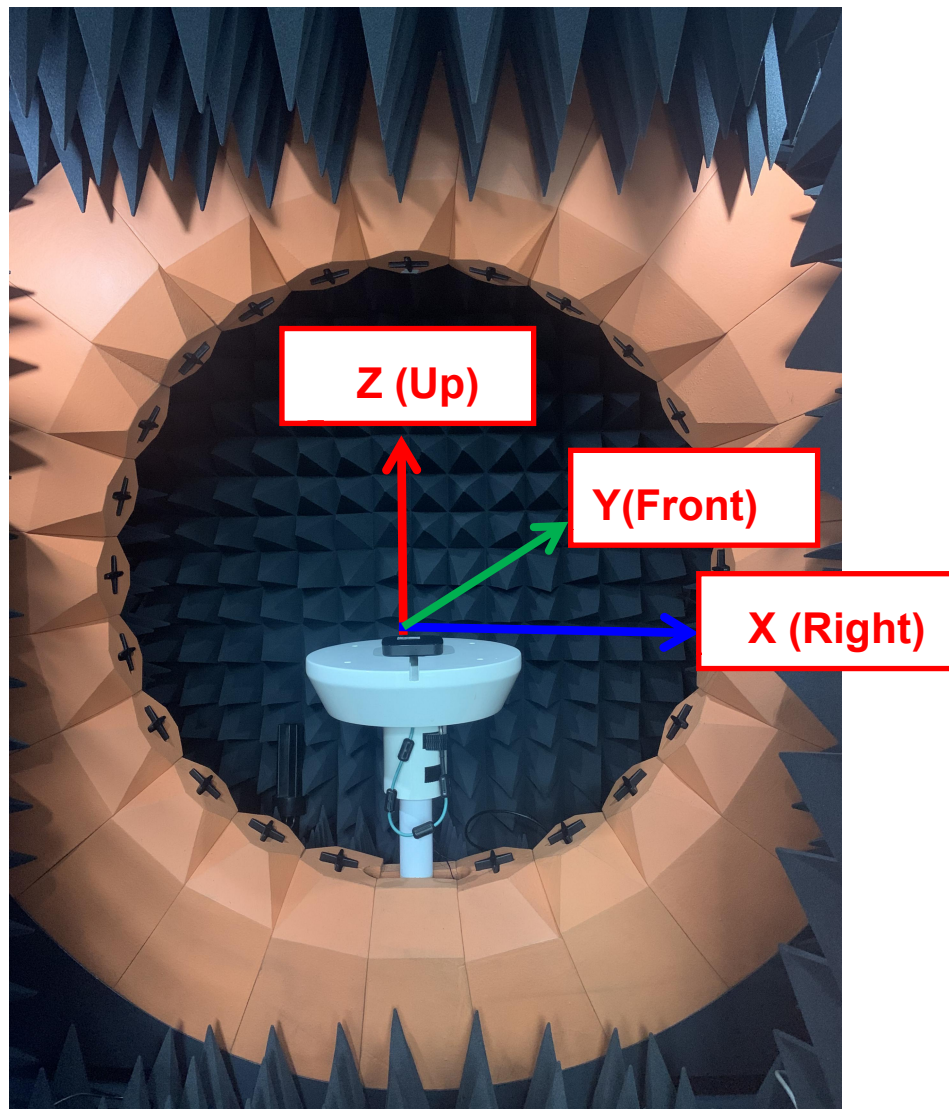


Freq/GHz	2.4	2.45	2.5
VSWR	2.1	1.5	1.1

5.2 Efficiency & Gain

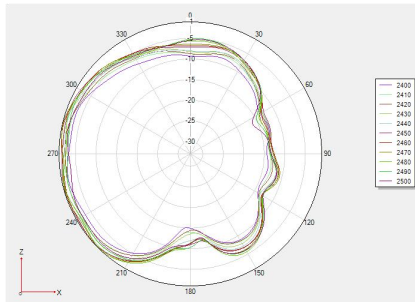
Efficiency & Gain of BT Ant		
Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400	-2.55	26.98
2410	-2.22	30.48
2420	-2.26	29.79
2430	-1.24	33.42
2440	-1.15	33.42
2450	-1.04	36.39
2460	-1.06	35.81
2470	-0.81	35.73
2480	-1.02	34.59
2490	-1.94	32.43
2500	-2.26	30.48

5.3 Reference Coordinate System

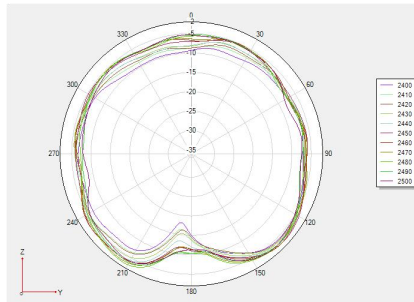


	XY	XZ	YZ
0°	Right	Up	Up
90°	Front	Right	Front
180°	Left	Down	Down
270°	Back	Left	Back

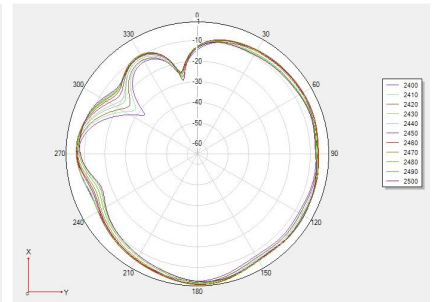
5.4 2D & 3D Radiation Pattern



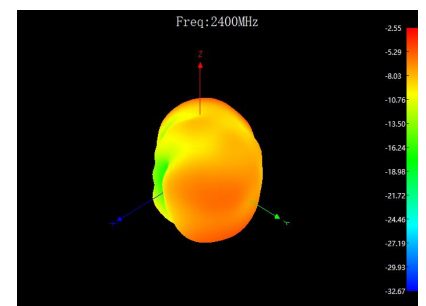
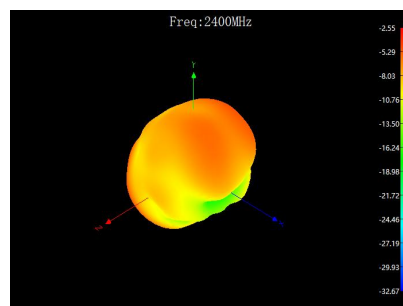
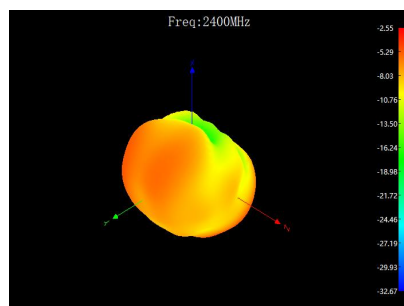
Phi = 0



Phi = 90



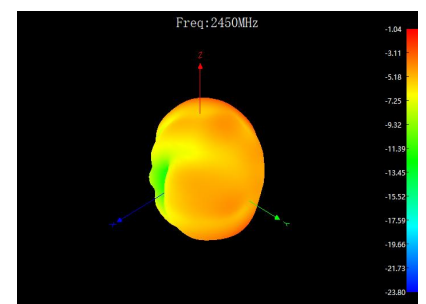
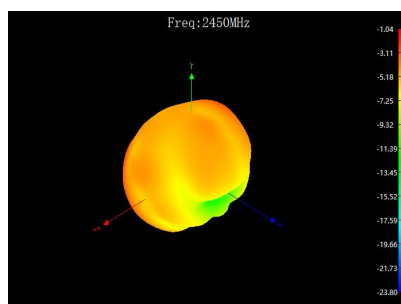
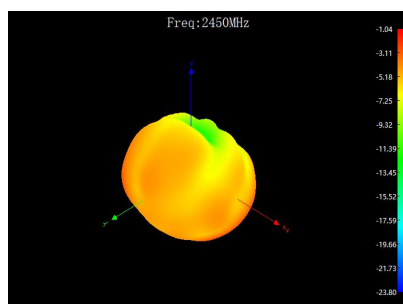
Theta = 90



ZXY face @2400MHz

XYZ face @2400MHz

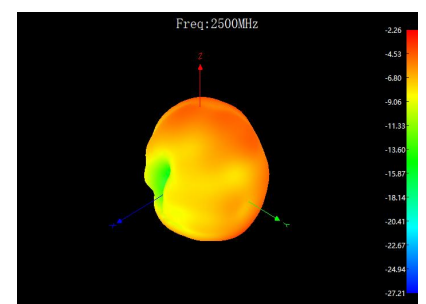
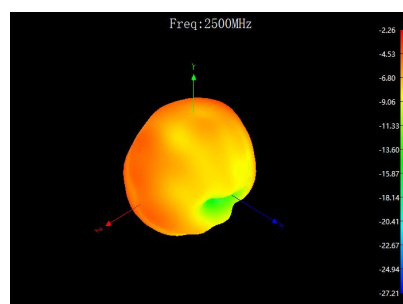
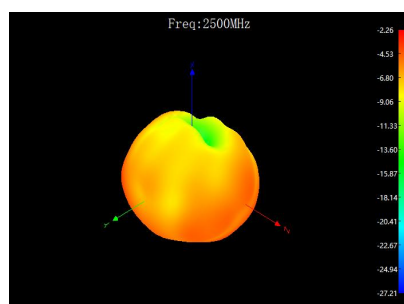
YZX face @2400MHz



ZXY face @2450MHz

XYZ face @2450MHz

YZX face @2450



ZXY face @2500MHz

XYZ face @2500MHz

YZX face @2500MHz

