

Antenna Test Report

訊動_BT 量測 SBWD1100-PLUS

Version: V 1.0

Released Date: 2020/06/05

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Revision History

Released Date	Version	Record
2020/06/05	1.0	BT Antenna test(量測)

Conclusion & Comments

Antenna Performance Summary

- NA

Comments for Further Improvement

- NA

Specification

Requirements of Antenna Design

RF Function	Number of ANT	Frequency Band	Remark
2G	1	2400~2500 (MHz)	

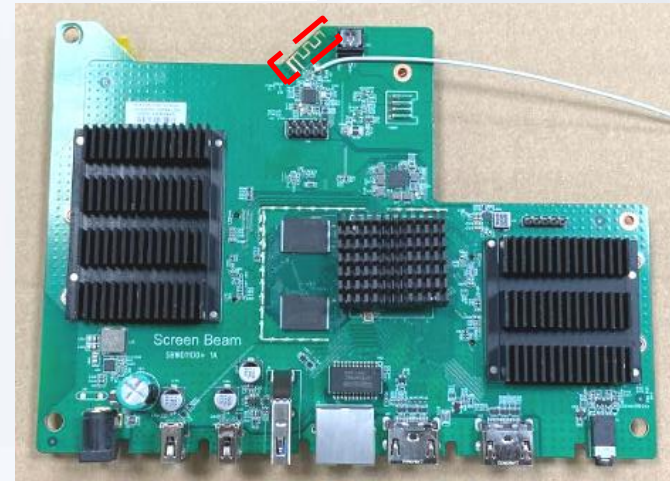
Requirements of Measurement

Test Item	Specification	Remark
Return Loss	NA	
Isolation	NA	
Peak gain	NA	
Efficiency	NA	
Radiation pattern	Scale: +10 ~ -40dBi, Angle step size: 2 degree	

Antenna Placement & Solution

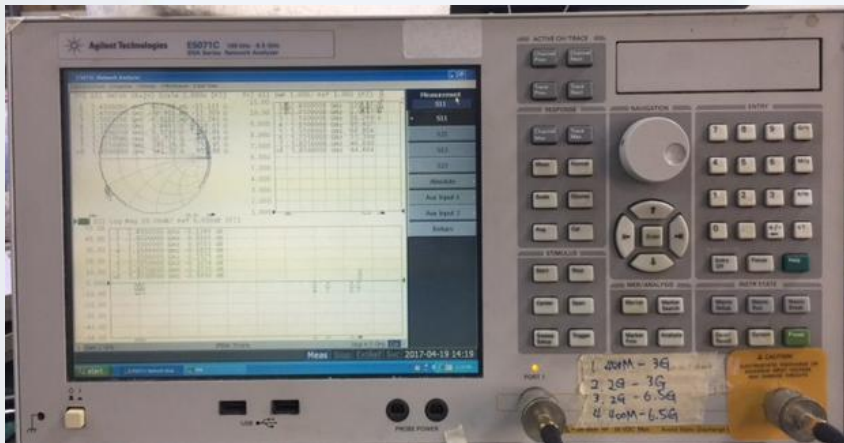


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Antenna	ANT Type	Size (L * W * H)	Cable Length (mm)	Cable Type
BT	Print	20mm*6mm	120(By test)	$\Phi=1.13$

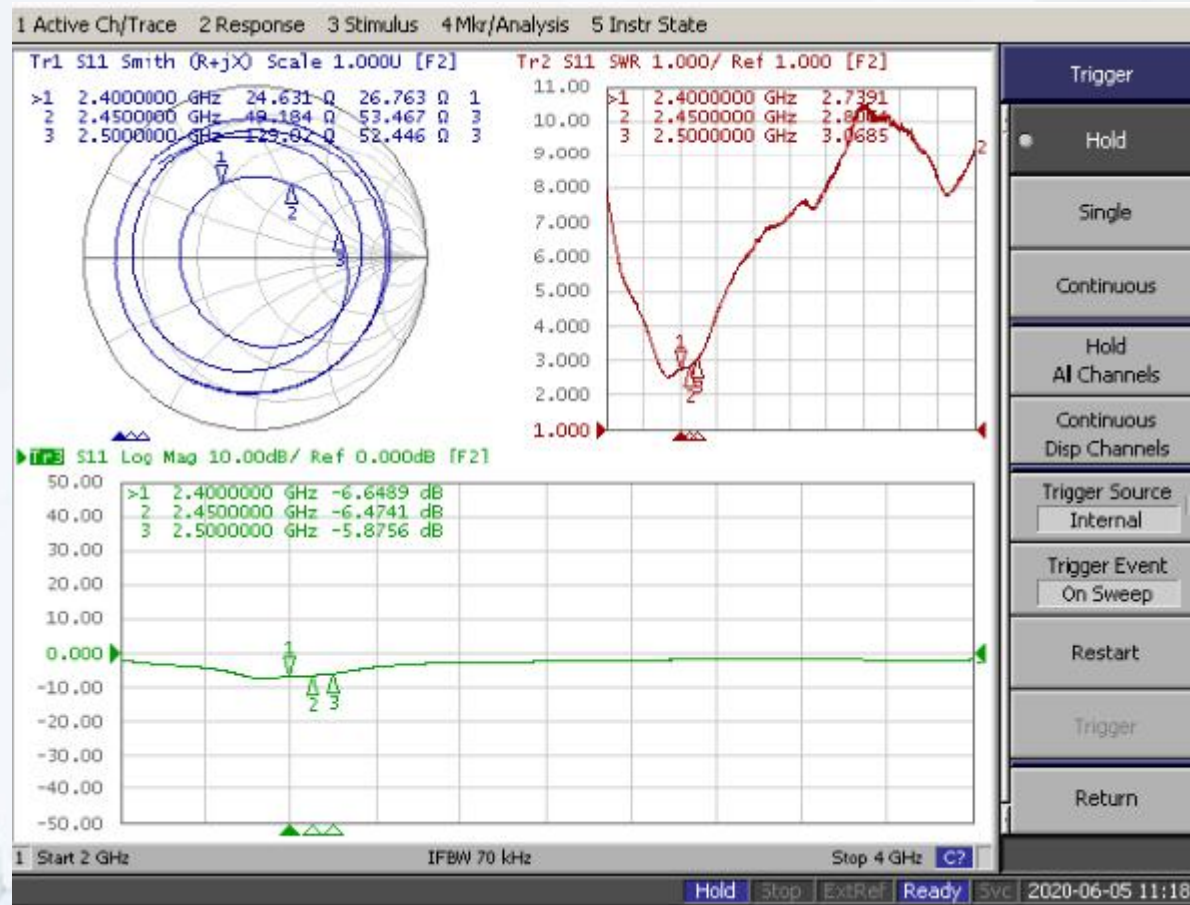
Test Setup for S-parameter Measurement



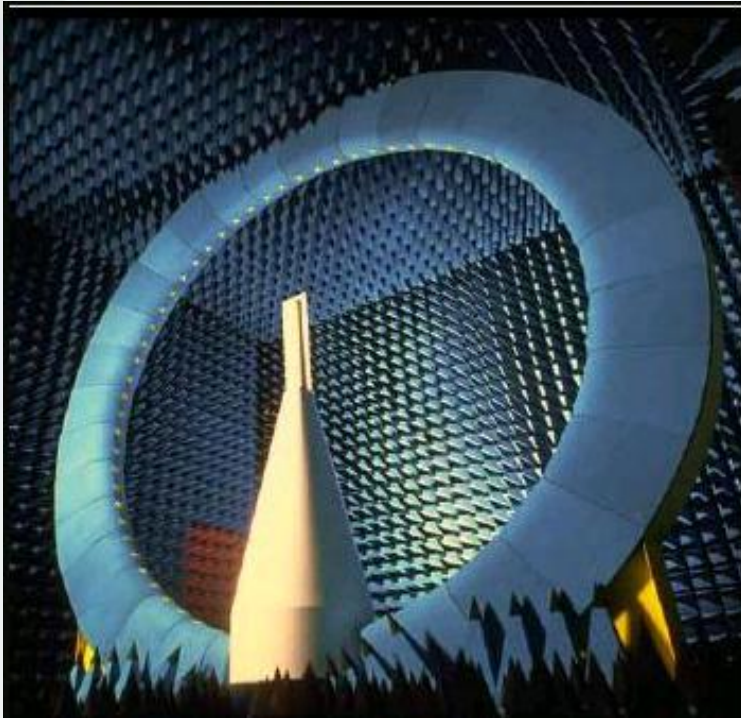
Equipment	Brand	Model	S/N
Network Analyzer	Keysight	E5071C	MY46107744

Return Loss Results

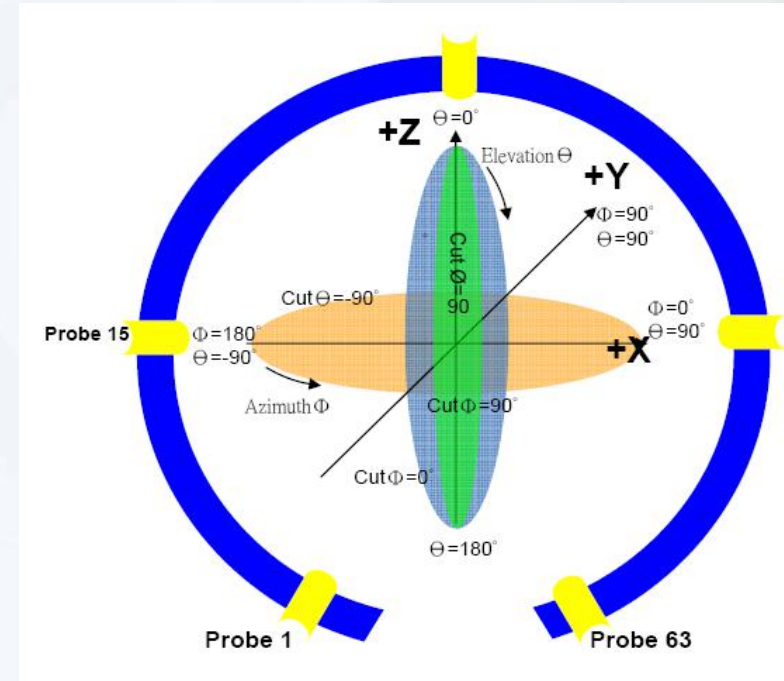
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Chamber Information

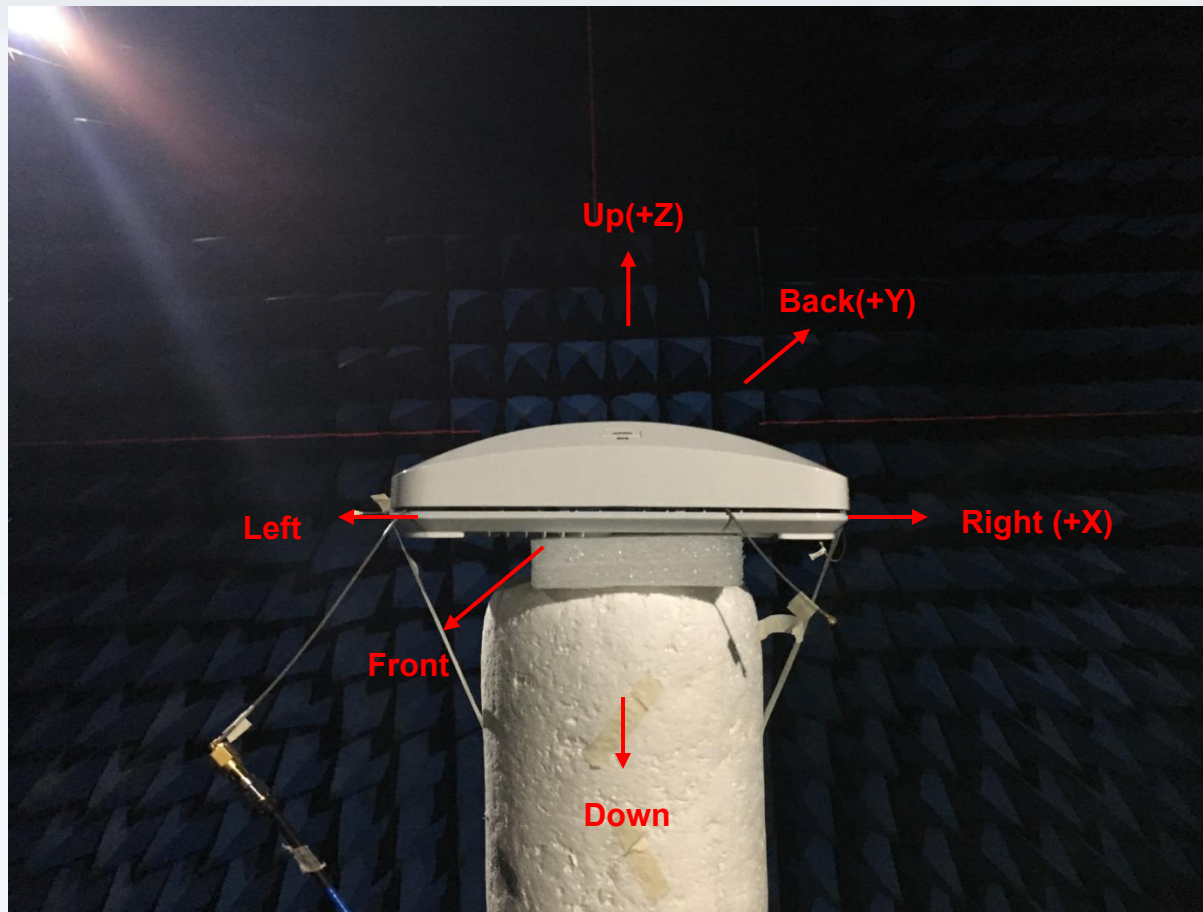


Chamber	Brand	Model	Location
SATIMO	SATIMO	SG-64	Taiwan HsinChu



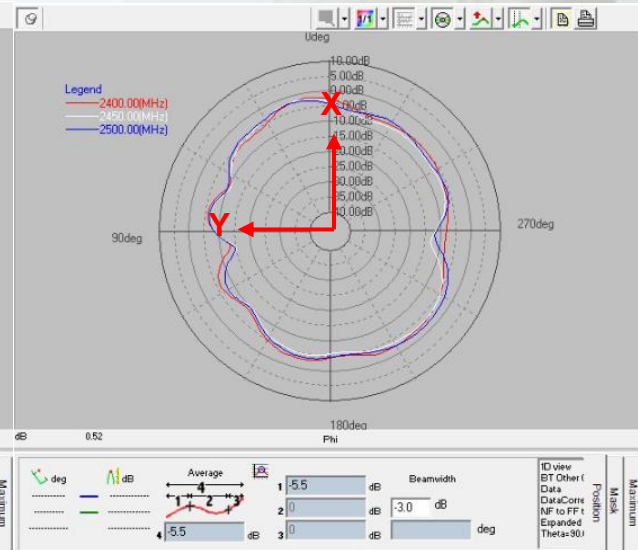
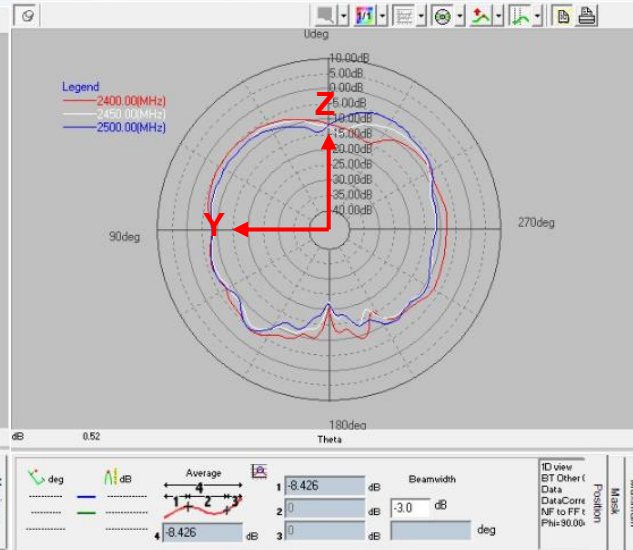
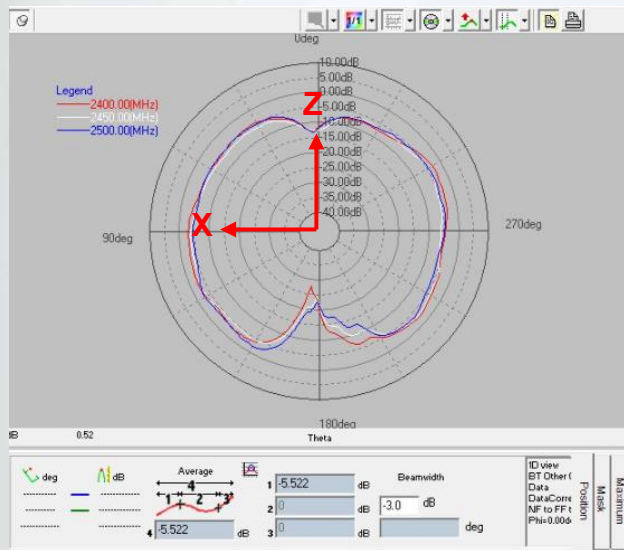
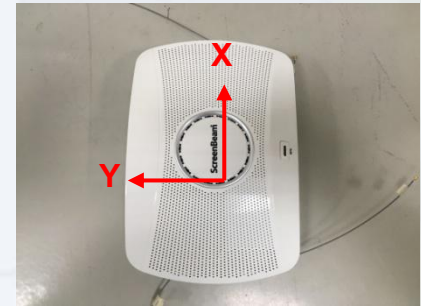
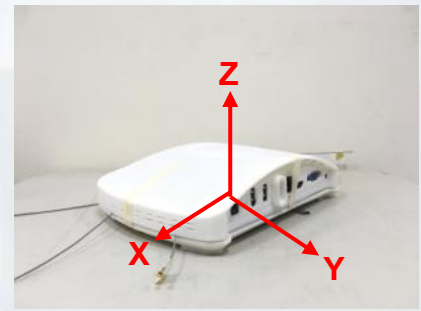
	θ	ϕ
Total angle	175°	360°
How many angle scan one point	2°	2°
Total scan point	90	180

Test Setup for Radiation Pattern Measurement



2D Radiation Pattern Results

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Results Summary

Peak gain & Efficiency – BT

Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400MHz	-0.37	29
2450MHz	-0.86	23
2500MHz	-1.34	26