



WHA YU INDUSTRIAL CO., LTD.(HEAD OFFICE)

DONGGUAN AEON TECH CO.,LTD.(CHINA)

SPECIFICATION FOR APPROVAL

CUSTOMER:

同維

PART NAME:

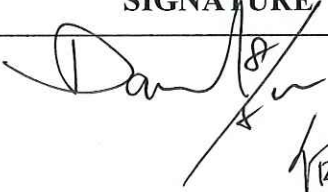
RF Antenna Assembly

PART NO.:

REVISION:

W. Y. P/NO.: C6319-510334-A(SZ2207-064)

REV.: X1

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY :	 何國春 8/2	
DATE :		

WHA YU GROUP

WHA YU INDUSTRIAL CO., LTD.(HEAD OFFICE)

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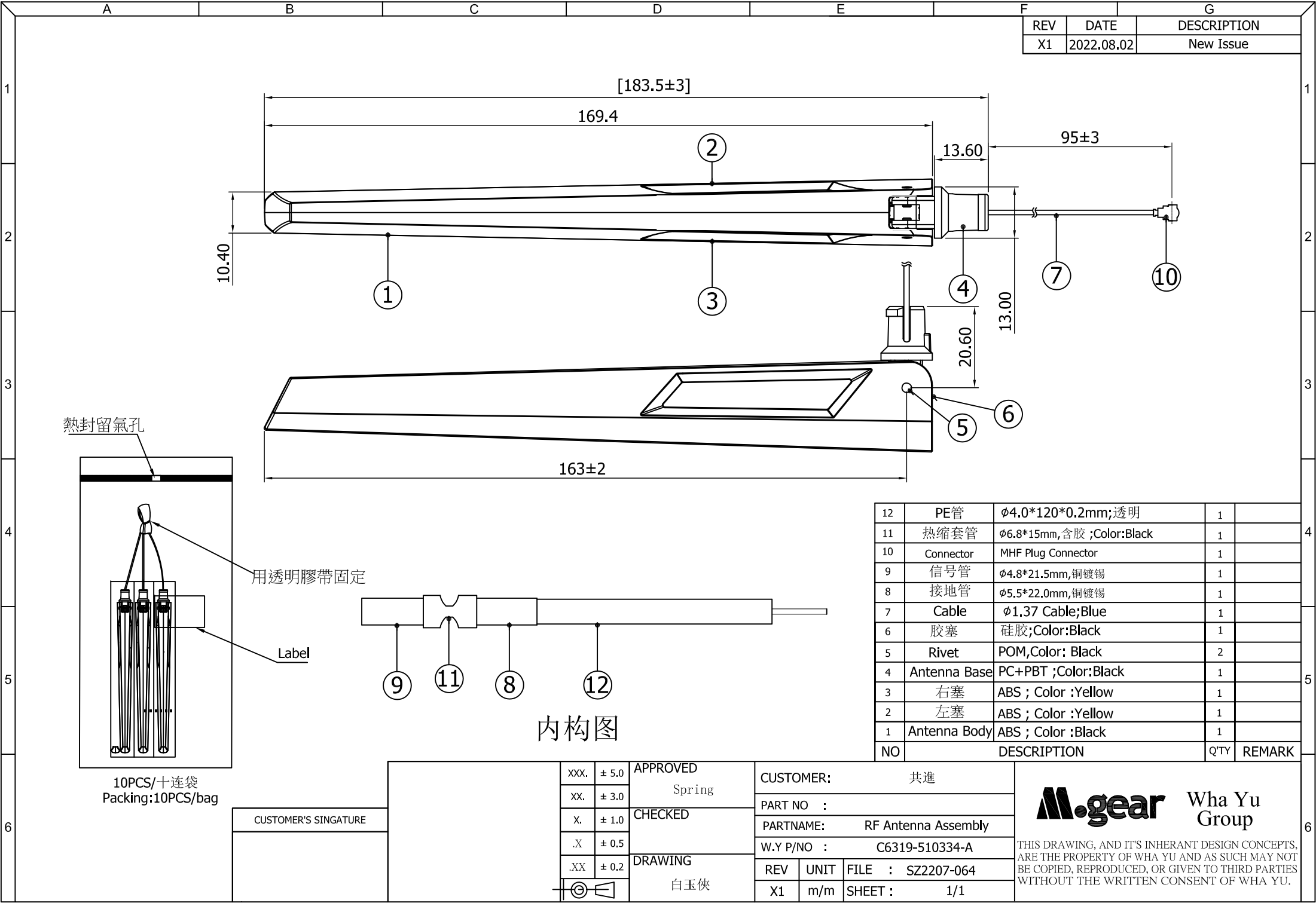
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REV	DATE	DESCRIPTION
X1	2022.08.02	New Issue

12	PE管	φ4.0*120*0.2mm;透明	1	
11	热缩套管	φ6.8*15mm,含胶 ;Color:Black	1	
10	Connector	MHF Plug Connector	1	
9	信号管	φ4.8*21.5mm,铜镀锡	1	
8	接地管	φ5.5*22.0mm,铜镀锡	1	
7	Cable	φ1.37 Cable;Blue	1	
6	胶塞	硅胶;Color:Black	1	
5	Rivet	POM,Color: Black	2	
4	Antenna Base	PC+PBT ;Color:Black	1	
3	右塞	ABS ; Color :Yellow	1	
2	左塞	ABS ; Color :Yellow	1	
1	Antenna Body	ABS ; Color :Black	1	
NO	DESCRIPTION		Q'TY	REMARK

内构图

		xxx.	± 5.0	APPROVED Spring	CUSTOMER: 共進		
		xx.	± 3.0		PART NO :		
CUSTOMER'S SINGATURE		x.	± 1.0	CHECKED	PARTNAME: RF Antenna Assembly		
		.X	± 0.5		W.Y P/NO : C6319-510334-A		
		.XX	± 0.2	DRAWING 白玉俠	REV	UNIT	FILE : SZ2207-064
					X1	m/m	SHEET : 1/1



Wha Yu Group

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Antenna Test Report

Version: V 1.00

Released Date: 2022/08/02

Prepared By: Xiao dong

Reviewed By: Daniel



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- Conclusion & Comments
- Specification
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- Isolation Results
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- Results Summary (return loss, isolation, peak gain, efficiency)

Revision History

Released Date	Version	Record
2022/08/02	1.00	Antenna Testing Report NEW Project

Specification

Requirements of Antenna Design

RF Function	Number of ANT	Frequency Band	Remark
WIFI	1	2400~2500/5150~5850 MHz	

Requirements of Measurement

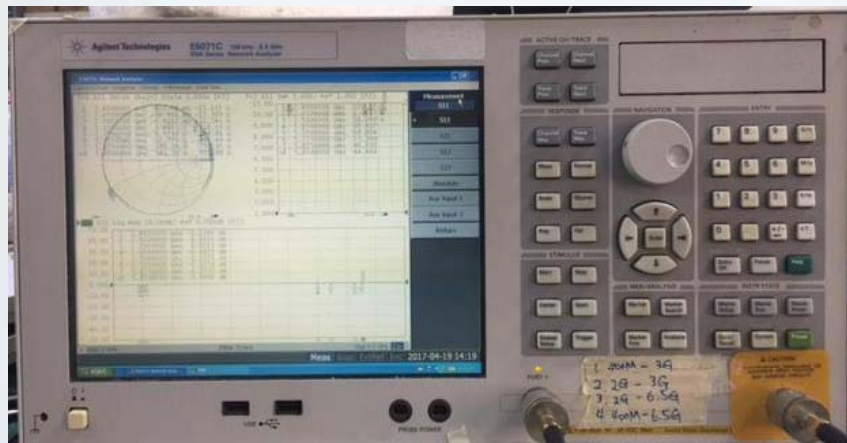
Test Item	Specification	Remark
VSWR	≤ 2.0	
Peak gain	≥ 2.0 dBi	
Efficiency	> 60 %	

Antenna Placement & Solution



Antenna	ANT Type	Size (L * W * H)	Cable Length (mm)	Cable Type
WIFI	Dipole	NA	NA	NA

Test Setup for S-parameter Measurement

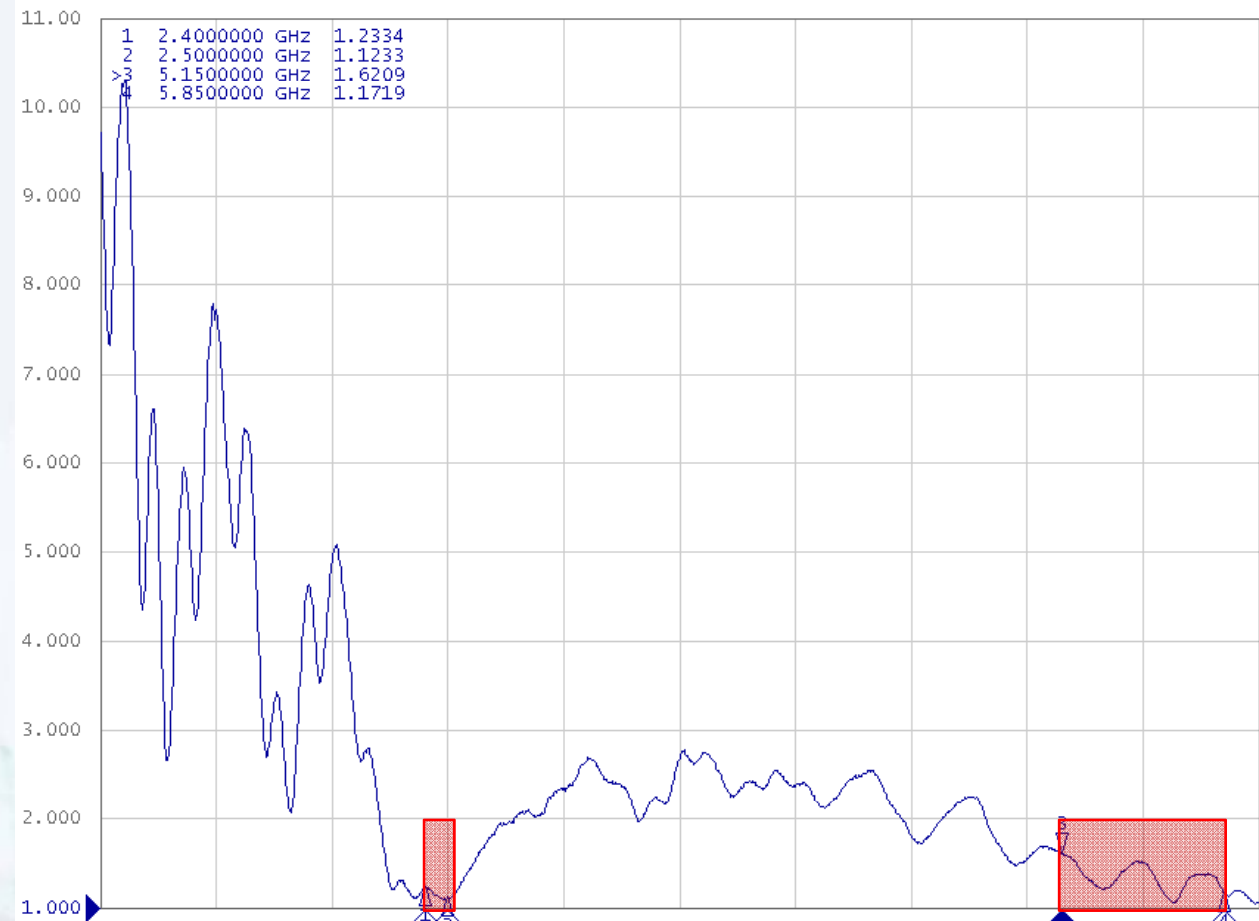


Equipment	Brand	Model	S/N
Network Analyzer	Keysight	E5071C	MY46107744

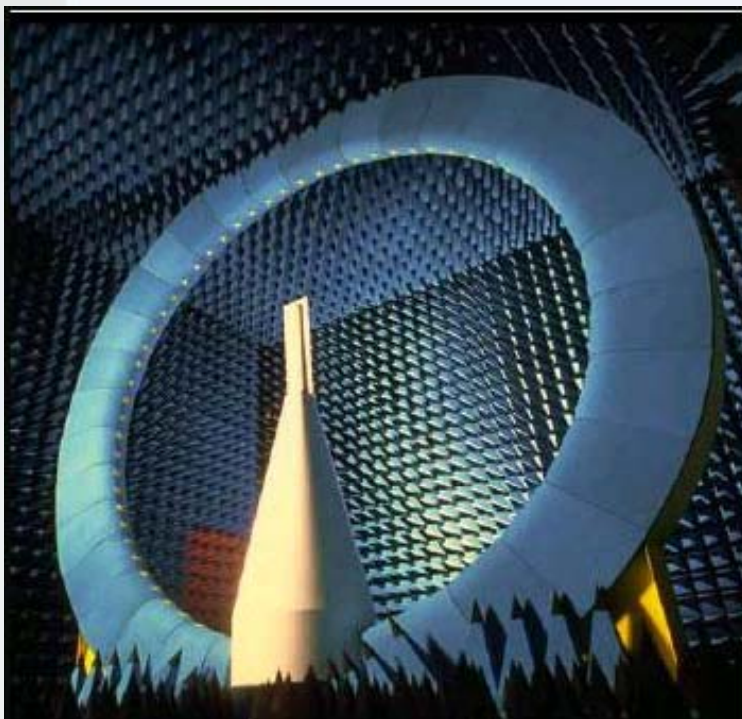
VSWR Results

Antenna (2400~2500/5150~5850 MHz)

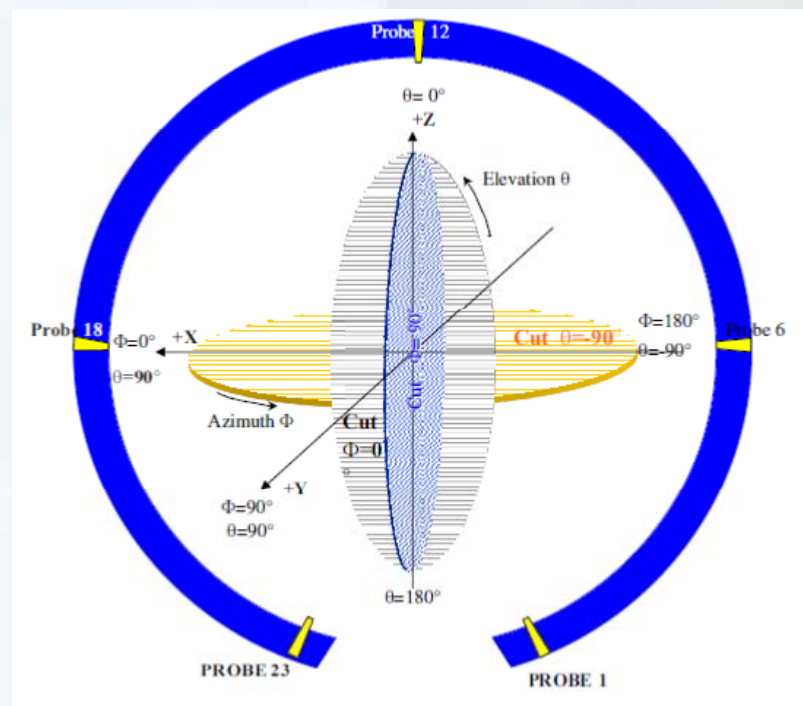
S11 SWR 1.000/ Ref 1.000 [F2]



Chamber Information

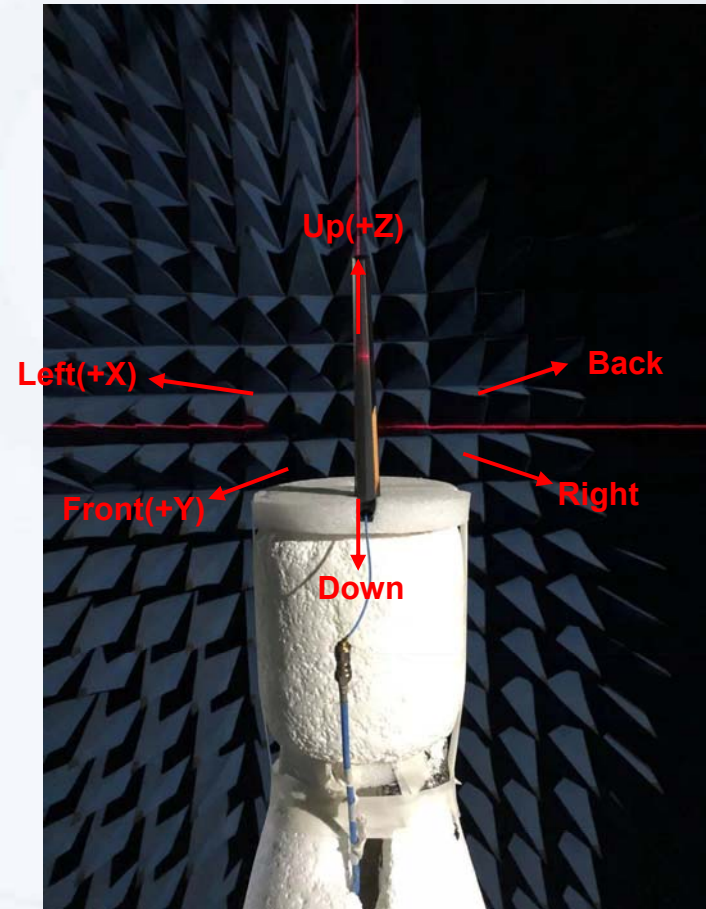
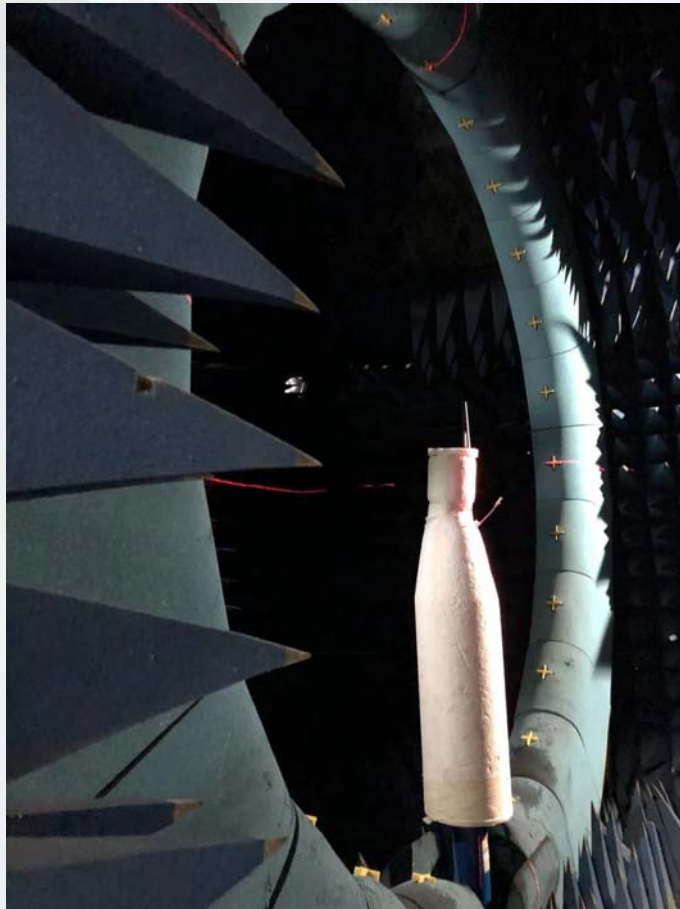


Chamber	Brand	Model	Location
SATIMO	SATIMO	SG-24	Suzhou TLSZ



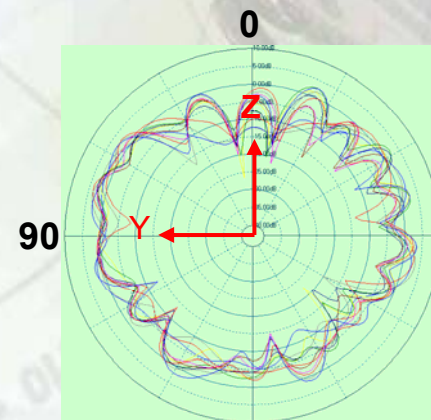
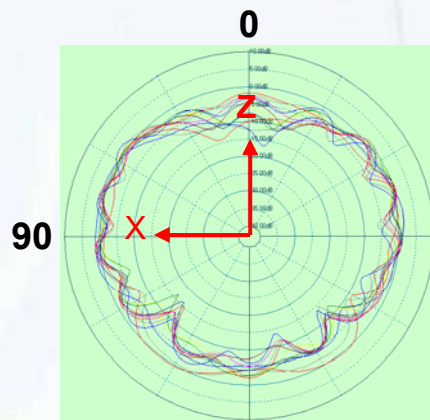
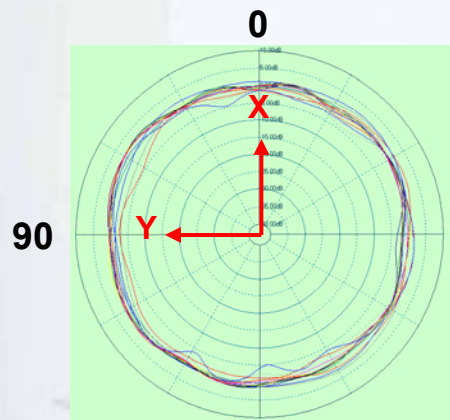
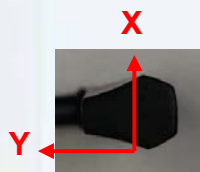
	θ	ϕ
Total angle	175°	360°
How many angle scan one point	5°	5°
Total scan point	36	73

Test Setup for Radiation Pattern Measurement



2D Radiation Pattern Results

Antenna



Results Summary

VSWR

Frequency	Antenna
2400MHz	1.23
2500MHz	1.12
5150MHz	1.62
5850MHz	1.17

Results Summary

Peak gain & Efficiency –Antenna

Frequency	Peak Gain (dBi)	Efficiency (%)
2400MHz	2.26	64
2450MHz	2.59	70
2500MHz	2.32	73
5150MHz	2.99	62
5250MHz	3.32	67
5350MHz	3.13	63
5450MHz	3.35	61
5550MHz	3.38	60
5650MHz	3.41	65
5750MHz	3.31	65
5850MHz	3.22	70