



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

DONGGUAN AEON TECH CO.,LTD.(CHINA)

SPECIFICATION FOR APPROVAL

CUSTOMER: 共進

PART NAME: RF Antenna Assembly

PART NO.:

REVISION:

W. Y. P/NO.: C6319-510337-A(SZ2208-033)

REV.: X2

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY :		
DATE :		

WHA YU GROUP

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DONGGUAN AEON TECH CO.,LTD.(CHINA)

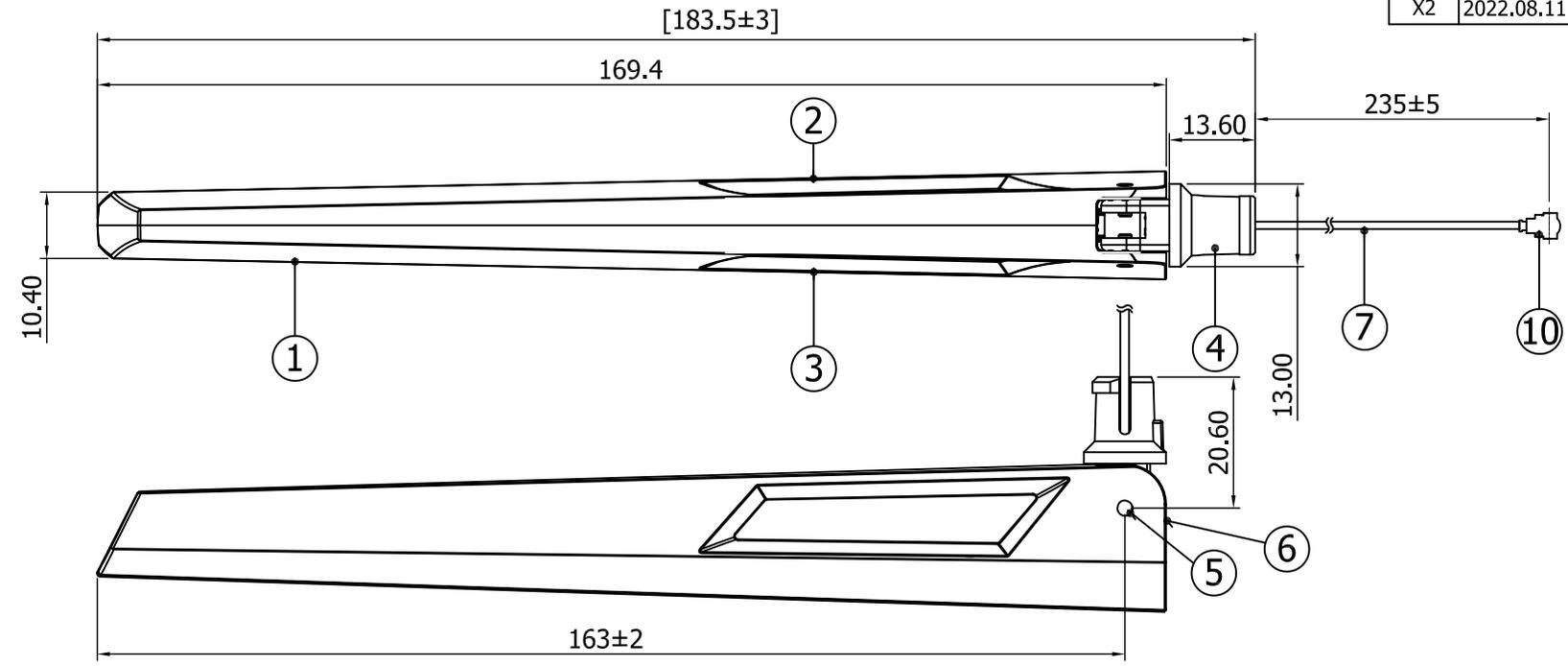
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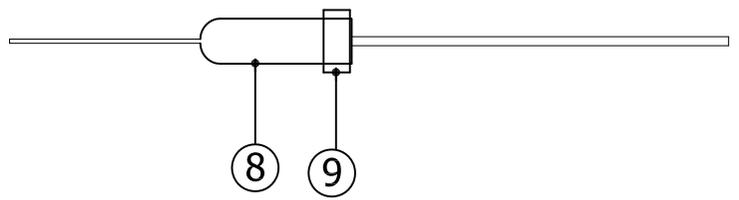
REV	DATE	DESCRIPTION
X1	2022.08.02	New Issue
X2	2022.08.11	变更线长



熱封留氣孔

用透明膠帶固定

Label



内构图

10	Connector	MHF Plug Connector	1	
9	泡棉单面背胶	EVA+3M 9888T	1	
8	接地管	∅6.8*23.0mm; 铜	1	
7	Cable	∅1.37 Cable; White	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

10PCS/十连袋
Packing:10PCS/bag

CUSTOMER'S SINGATURE

xxx.	± 5.0	APPROVED
xx.	± 3.0	Spring
x.	± 1.0	CHECKED
.X	± 0.5	
.XX	± 0.2	DRAWING
		白玉侠

CUSTOMER: 共進		
PART NO :		
PARTNAME: RF Antenna Assembly		
W.Y P/NO : C6319-510337-A		
REV	UNIT	FILE : S22208-033
X2	m/m	SHEET : 1/1

M.gear 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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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 MHz	

Requirements of Measurement

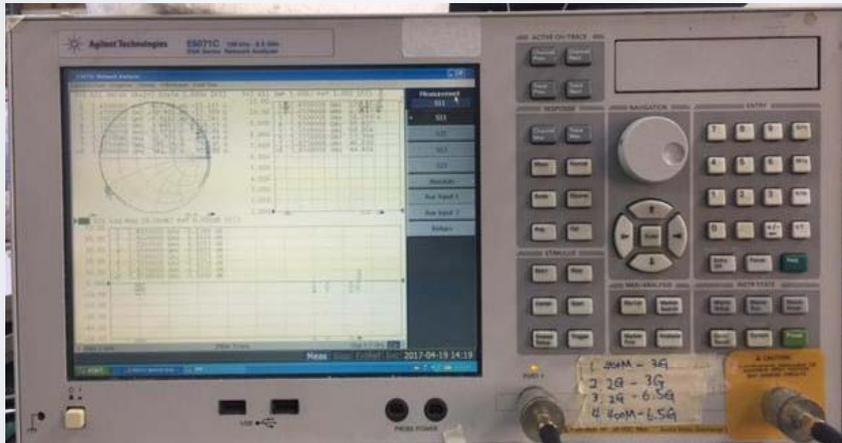
Test Item	Specification	Remark
VSWR	≤ 2.0	
Peak gain	≥ 2.0 dBi	
Efficiency	> 65 %	

Antenna Placement & Solution



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

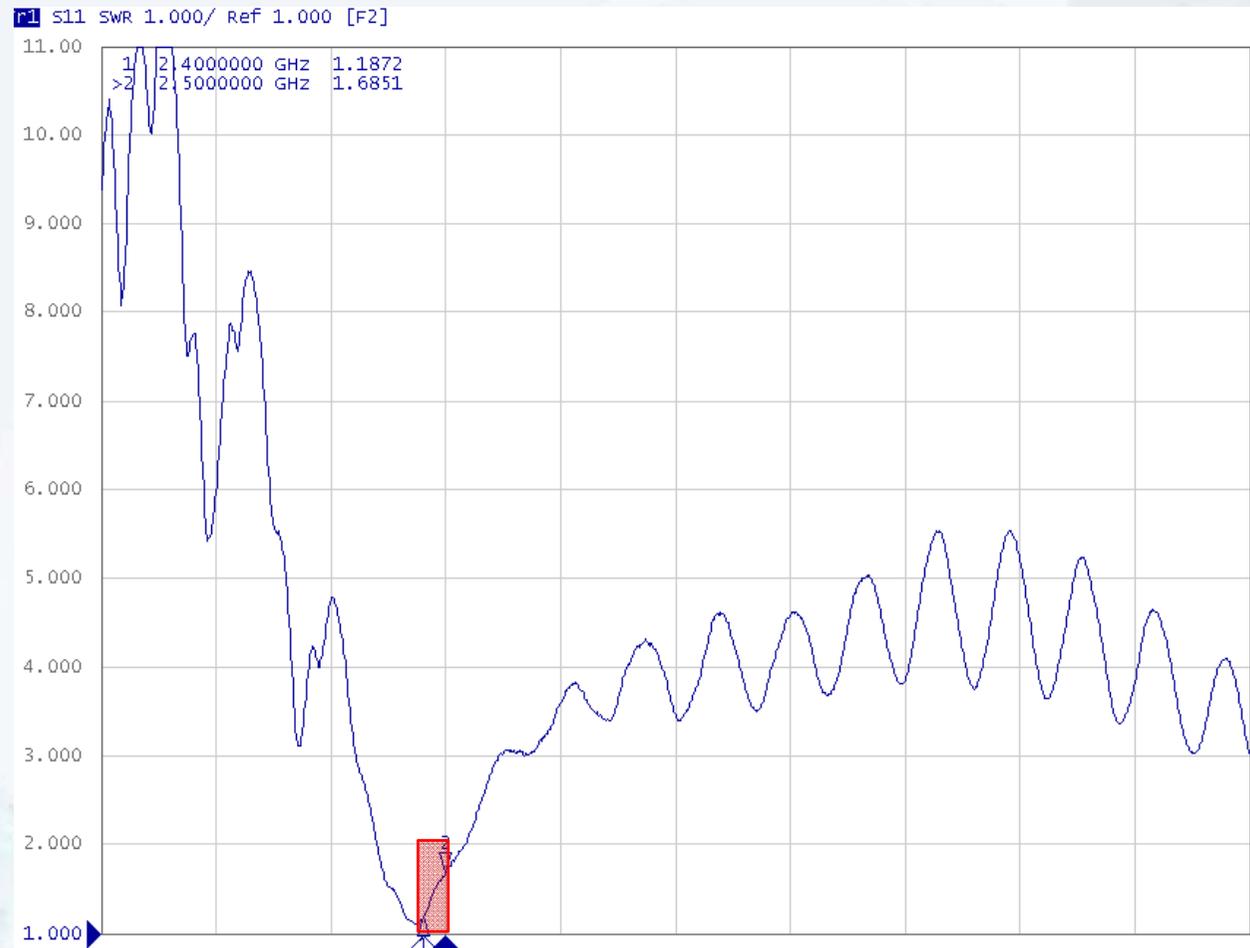
Test Setup for S-parameter Measurement



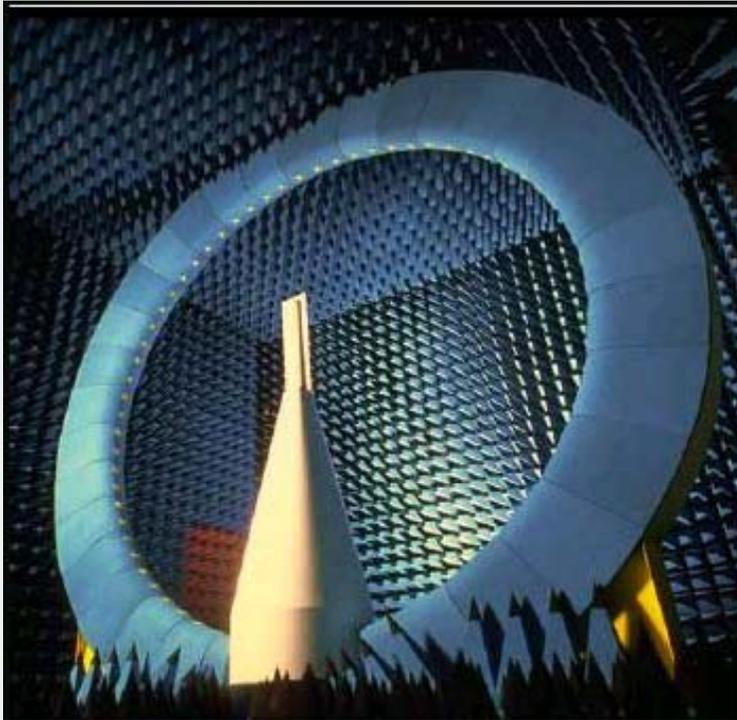
Equipment	Brand	Model	S/N
Network Analyzer	Keysight	E5071C	MY46107744

VSWR Results

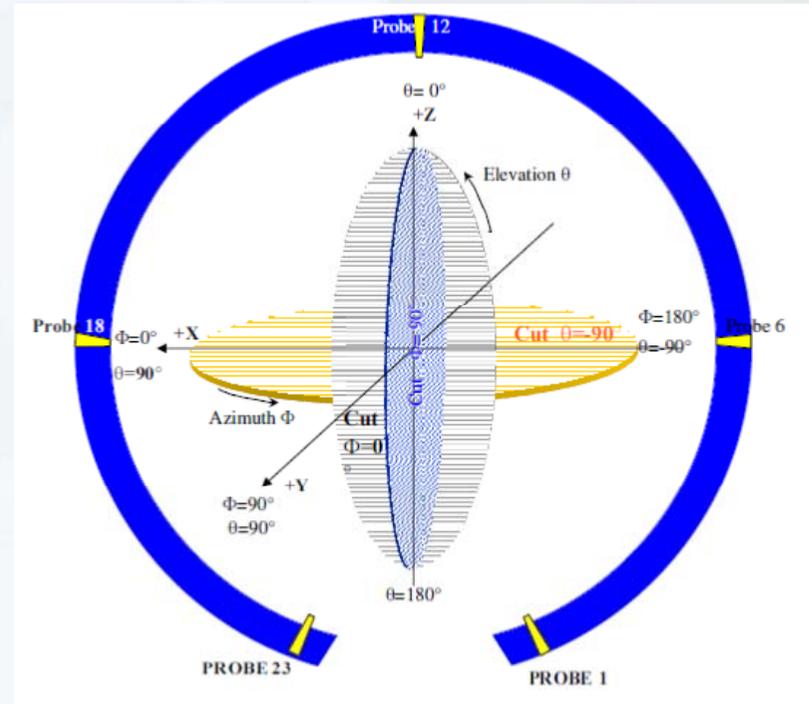
Antenna (2400~2500 MHz)



Chamber Information

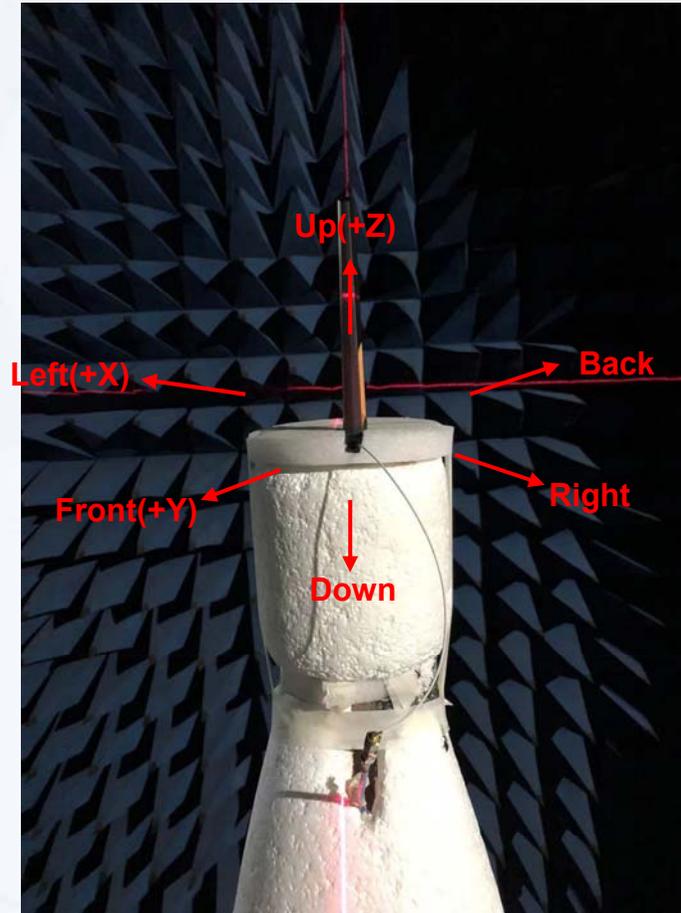
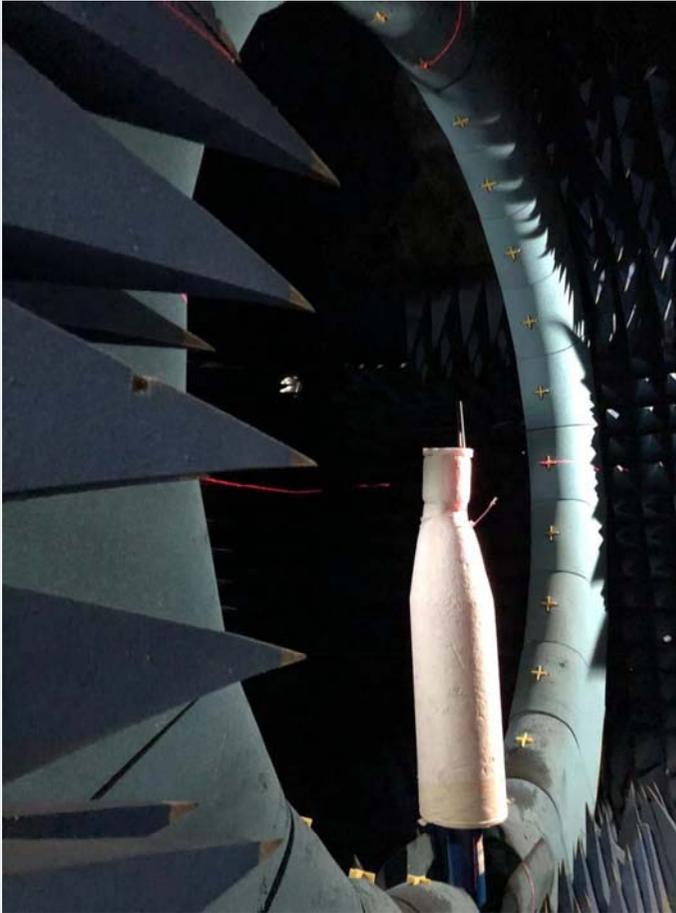


Chamber	Brand	Model	Location
SATIMO	SATIMO	SG-24	Suzhou TLSZ



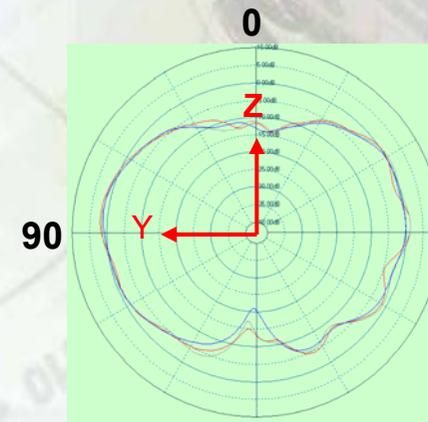
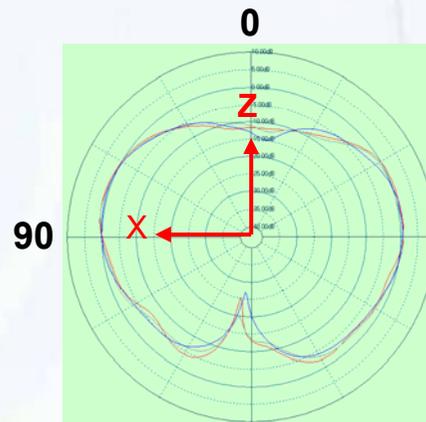
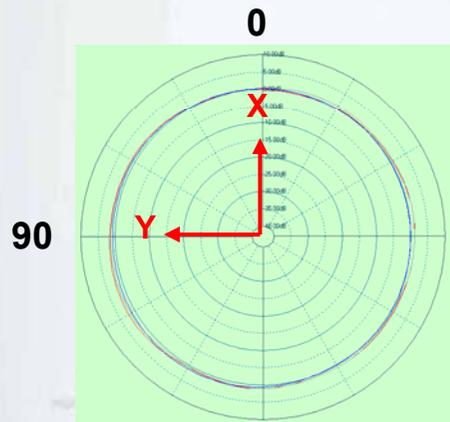
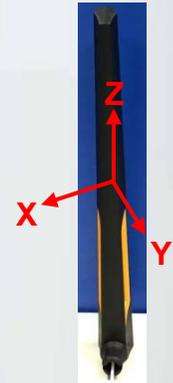
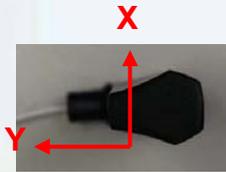
	θ	ϕ
Total angle	175°	360°
How many angle scan one point	5°	5°
Total scan point	36	73

Test Setup for Radiation Pattern Measurement



2D Radiation Pattern Results

Antenna



Results Summary

VSWR

Frequency	Antenna
2400MHz	1.18
2500MHz	1.68

Results Summary

Peak gain & Efficiency –Antenna

Frequency	Peak Gain (dBi)	Efficiency (%)
2400MHz	2.01	68
2450MHz	2.17	69
2500MHz	2.05	66