

SPECIFICATION APPROVAL SHEET

CUSTOMER _____

CUS PART NO _____

版次:

REV

_____ X1

SPECIFICATION

5.15-5.85GHz

WIFI Antenna L=160mm(Ø1.13+Tin)

单重:

weight _____

SUP PART NO

SLEingA200330160-C03

DATE

2024.02.01

SUP APPROVED

APPROVED	CHECKED	QA CHECKED	DESIGNED
<i>Jackens</i> 2024.2.1	<i>Terry</i>	<i>Lsf</i>	<i>Terry</i>

CUS APPROVED

APPROVED	CHECKED	QA CHECKED	DESIGNED

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DONGGUAN SLEing INTEL-TECH CO.,LTD

变更记录
MODIFICATION RECORD SHEET

(REV.)	(Modification date)	Summary of modification content	Signature	Approval
X1	2024.02.01	First Issue	Jerry	Jongrei

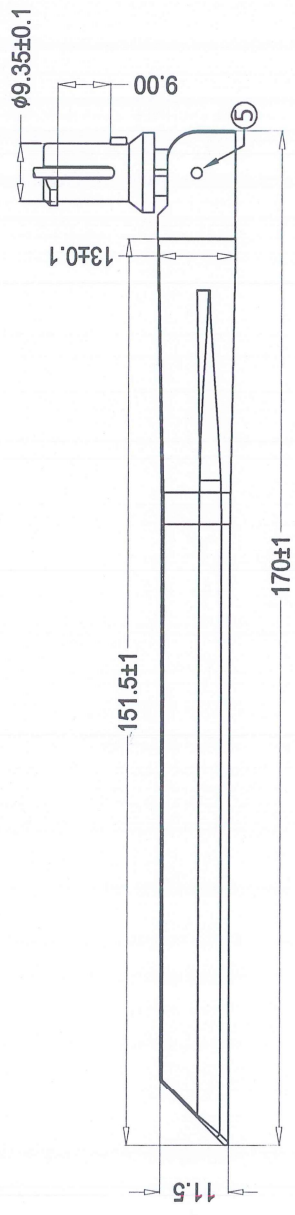
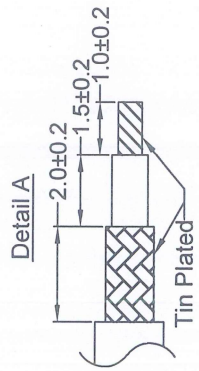
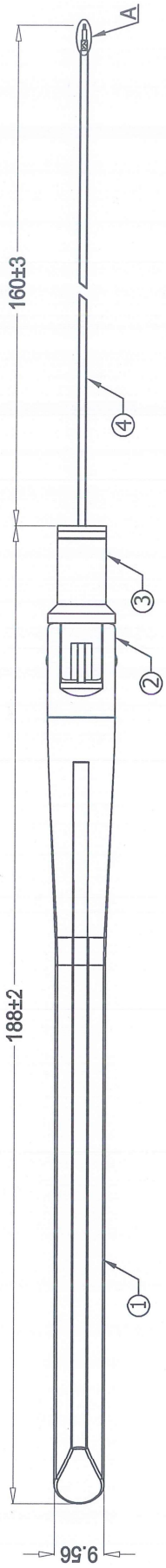
Spec Item

N0.	Project	Remark	Page
1	Spec Cover		1
2	MODIFICATION RECORD SHEET		2
3	Spec Item		3
4	Drawing		4
5	Test Reports		5
6	S Parameter Test		6
7	Test Setup		7
8	Test Efficiency		8
9	Patten		9

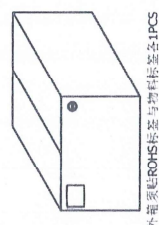
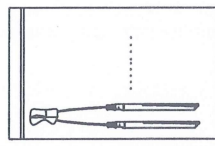
Give clear indication of:

1. The contents of the acknowledgement shall be arranged in order according to the items in the check sheet.
2. The number of copies of the acceptance letter shall be printed according to the customer's requirements, and the SGS report shall be stamped with the engineering seal.
3. All materials shall be confirmed by the customer. Any material/process/changes that may affect product quality and environmental quality must be re-sent to the customer for confirmation before import.
4. SGS report is valid for one year.
5. According to the contents attached to the actual acknowledgement, check the check form: "Yes" is provided, "no" is provided according to customer requirements.

REV.	CONTENT	DATE
A	First Issue	2024.02.01



Specification:
Frequency Rang:5.15~5.85GHz
Return Loss:-10dB or less
VSWR:1.92 Max
Gain:5.0±0.5 dBi



25pcs/Bundle Packing:50pcs/bag		外箱貼ROHS标签与物料标签各1PCS											
5	Rivet	POM,Color:White		2			SLEing® DONGGUAN SLEing INTEL-TECH CO., LTD		CUSTOMER				
4	Cable	Φ1.13mm Coaxial Cable Black,50Ω		1					TOLERANCE UNLESS OTHERWISE SPECIFIED		PART NO		
3	Bottom Base	PC,Color:White		1					SIZE		DRAWN		
2	Upper Base	PC,Color:White		1					UNIT:mm		CHECKED		
1	Antenna Cap	TPEE,Color:White		1					ANGLES ±0.5°		APPROVED		
NO	PART NAME	DESCRIPTION		REMARK	Q'TY	SCALE: 1/1	SHEET: 1/1	XX ±0.05	XXX. ±2.0	A4	Jerry	Jerry	
				8	7	6	5	4	3	2	2024.12.12 工程组		

Test Reports

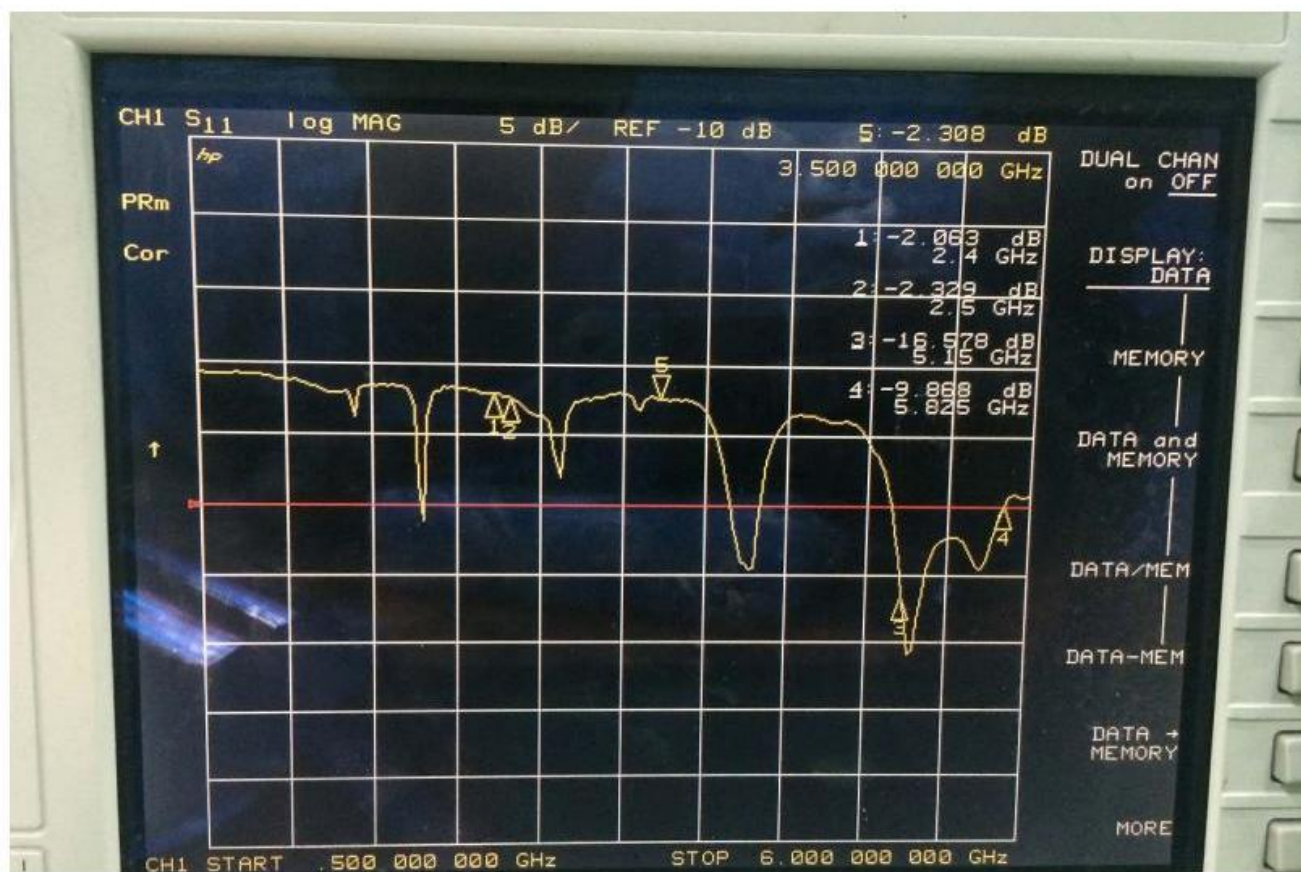
Electrical Properties	
Frequency	5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	≤ 1.92
Return Loss	-10dB Max
Radiation	Omni-directional
Gain	5 ± 1 dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	Tin
Physical Properties	
Antenna Material	TPEE/PC/POM
Cable Type	$\Phi 1.13$ mm Black
Operating Temp	-40°C-85°C
Storage Temp.	-40°C-85°C

S Parameter Test

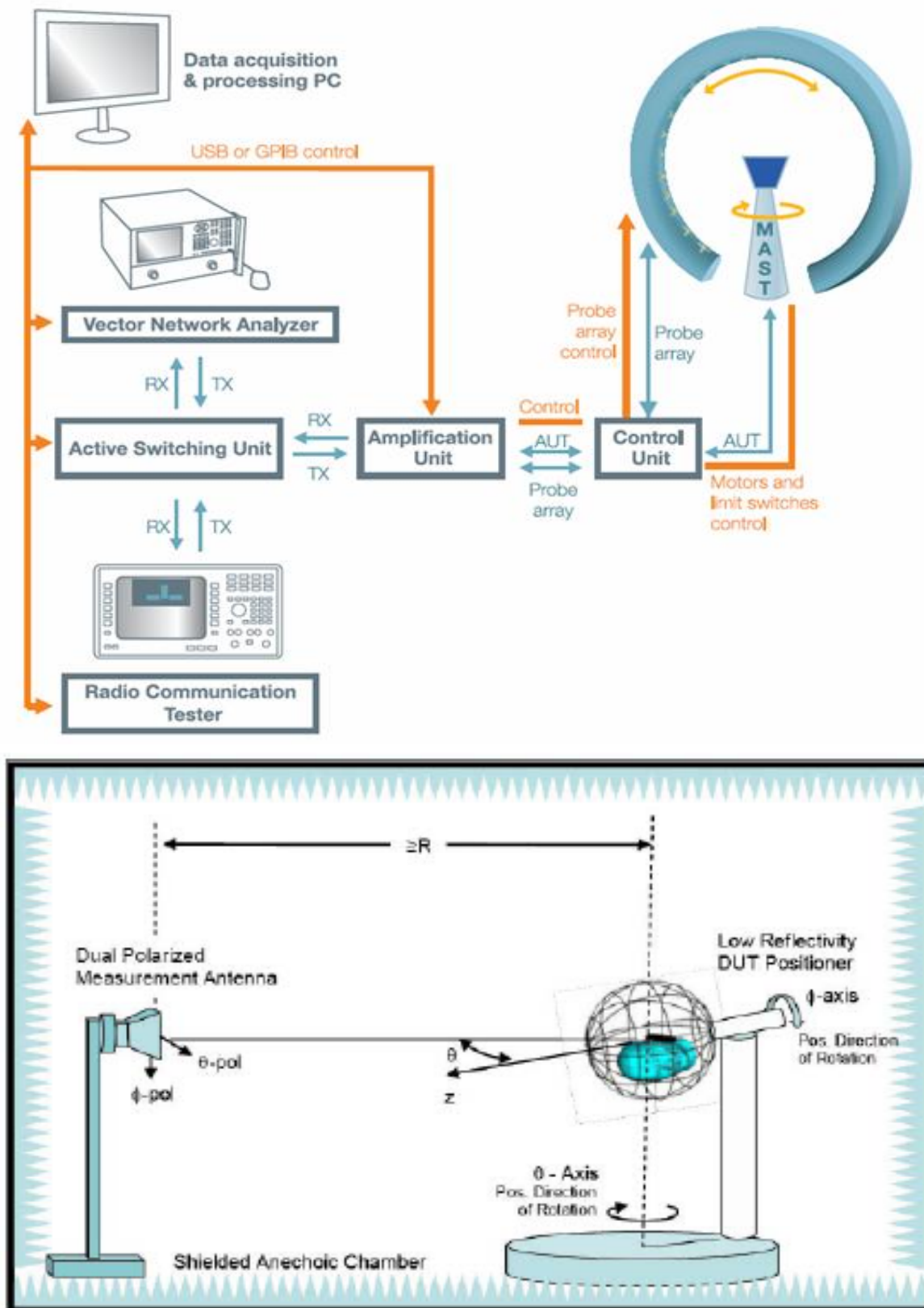
Agilent E5071C Network Analyzer



RF Antenna (Return Loss)



Setup



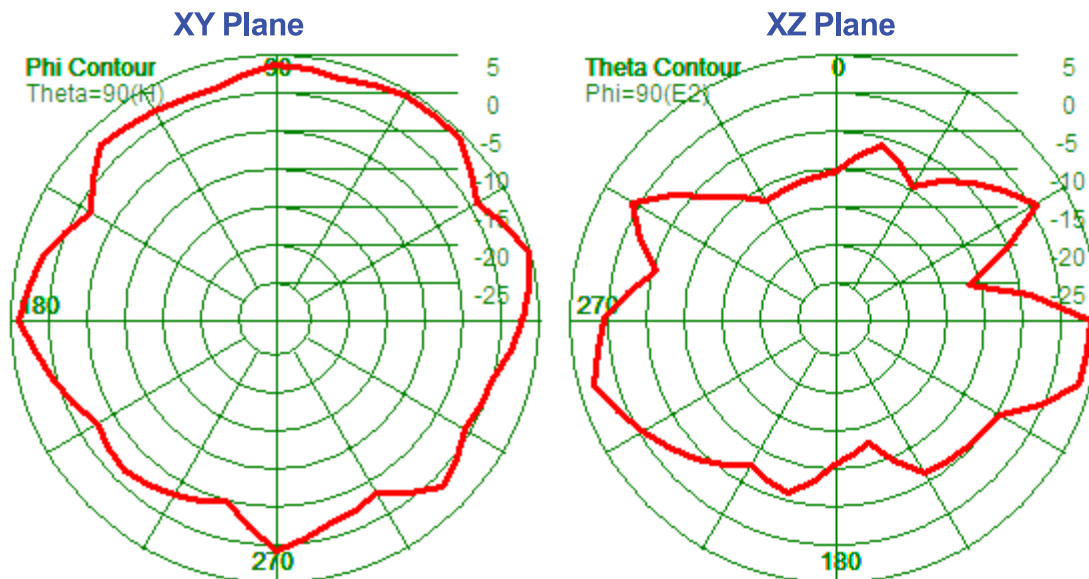
Test

Efficiency

Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dB)	Efficiency (%)	Efficiency (dB)	Max (dBm)	Theta of Max	Phi of Max	Min (dBm)	Theta of Min	Phi of Min	AVG (dBm)	Max/Min (dB)	Max/AVG (dB)	Min/AVG (dB)
1	5150.0	5150.00	4.54	6.08	70.1%	-1.54	4.54	90	15	-18.88	135	345	-2.79	23.42	7.33	-16.09
2	5250.0	5250.00	4.82	6.21	72.6%	-1.39	4.82	90	180	-21.45	165	30	-3.06	26.27	7.89	-18.39
3	5350.0	5350.00	4.83	6.49	68.1%	-1.67	4.83	90	135	-21.17	75	150	-4.10	26.00	8.93	-17.07
4	5450.0	5450.00	5.20	6.68	71.0%	-1.49	5.20	90	45	-24.14	165	180	-3.70	29.33	8.90	-20.43
5	5550.0	5550.00	5.44	6.93	71.0%	-1.48	5.44	90	45	-22.74	165	195	-3.46	28.18	8.91	-19.27
6	5650.0	5650.00	5.78	7.44	68.1%	-1.67	5.78	90	180	-21.46	15	270	-3.69	27.24	9.46	-17.78
7	5750.0	5750.00	5.67	7.22	70.1%	-1.54	5.67	90	180	-21.67	165	0	-3.69	27.24	9.36	-17.88
8	5850.0	5850.00	5.92	7.58	68.2%	-1.66	5.92	90	180	-23.29	180	105	-3.61	29.21	9.53	-19.68
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Patten

1.3 2D Radiation patterns test results (Passive Antenna)



1.5 3D Radiation patterns test results (Passive Antenna)

3D

