



DONGGUAN SLEing INTEL-TECH CO.,LTD

SPECIFICATION APPROVAL SHEET

CUSTOMER _____

CUS PART NO _____ REV _____X1

2.4~2.5/5.15~5.85GHz
SPECIFICATION WIFI Antenna L=190mm(Ø1.13 +MHF) weight _____

SUP PART NO SLEingB243310190-C01

DATE 2024.01.19

SUP APPROVED

APPROVED	CHECKED	QA CHECKED	DESIGNED

CUS APPROVED

APPROVED	CHECKED	QA CHECKED	DESIGNED

DONGGUAN CITY SLEing INTEL-TECH CO.,LTD

Room 402, No. 6 Plant, Accelerator of Modern Enterprise, No, 24 Industry East Road
Songshanlake District, Donguan City, Guangdong Province, China.

Tel: +86-076989208968

Fax: +86-0769-89208969

www.sleing.com



RECORD SHEET

REV.	Modification date	Summary of modification content	Signature	Approval
X1	2024.01.19	First Issue	Jerry	Jongrei

Spec Item

NO.	Project	Remark	Page
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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	
		X1		First Sample		2024.01.19	

Specification:
 Frequency Rang: 2.4~2.5/5.15~5.85GHz
 Return Loss: -10dB or less
 VSWR: 1.92 Max

SLEing®		DONGGUAN SLEing INTEL-TECH CO., LTD		TOLERANCE UNLESS OTHERWISE SPECIFIED		S.L P/NO		WIFI ANTENNA	
PART NO		TITLE		SIZE		DRAWN		CHECKED	
1		Connector		MHF Plug for Φ1.13 Cable		1		1	
2		Cable		Φ1.13mm Coaxial Cable Black, 50Ω		1		1	
3		FPCB		FPC, L34.8*W12.0*TO.1mm Color Black		300L SE Adhesive		1	
4		PART NAME		DESCRIPTION		REMARK		QTY	
5		8		7		6		5	

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PART NO		TITLE		SIZE		DRAWN		CHECKED	
1		Connector		MHF Plug for Φ1.13 Cable		1		1	
2		Cable		Φ1.13mm Coaxial Cable Black, 50Ω		1		1	
3		FPCB		FPC, L34.8*W12.0*TO.1mm Color Black		300L SE Adhesive		1	
4		PART NAME		DESCRIPTION		REMARK		QTY	
5		8		7		6		5	

Scale: 1/1

2024.01.19

2024.01.19

Test Reports

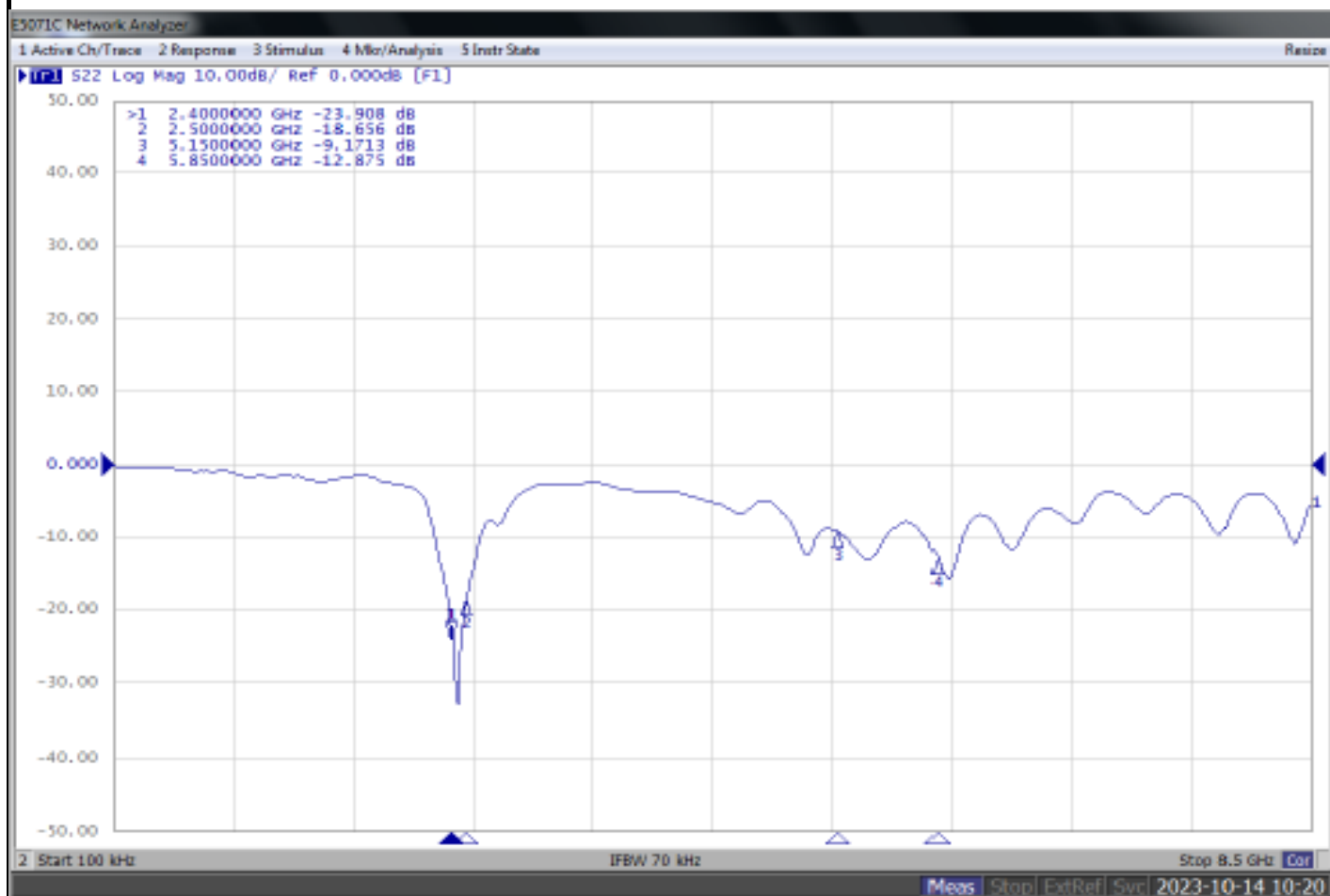
Electrical Properties	
Frequency	2.4~2.5/5.15~5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	≤ 1.92
Return Loss	-10dB Max
Radiation	Omni-directional
2.4G Gain (Peak)	2.43 dBi
5G Gain (Peak)	4.91 dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	MHF
Physical Properties	
Antenna Material	FPCB
Cable Type	$\Phi 1.13\text{mm}$ Black
Operating Temp	-40°C~+85°C
Storage Temp.	-5°C~+30°C

S Parameter Test

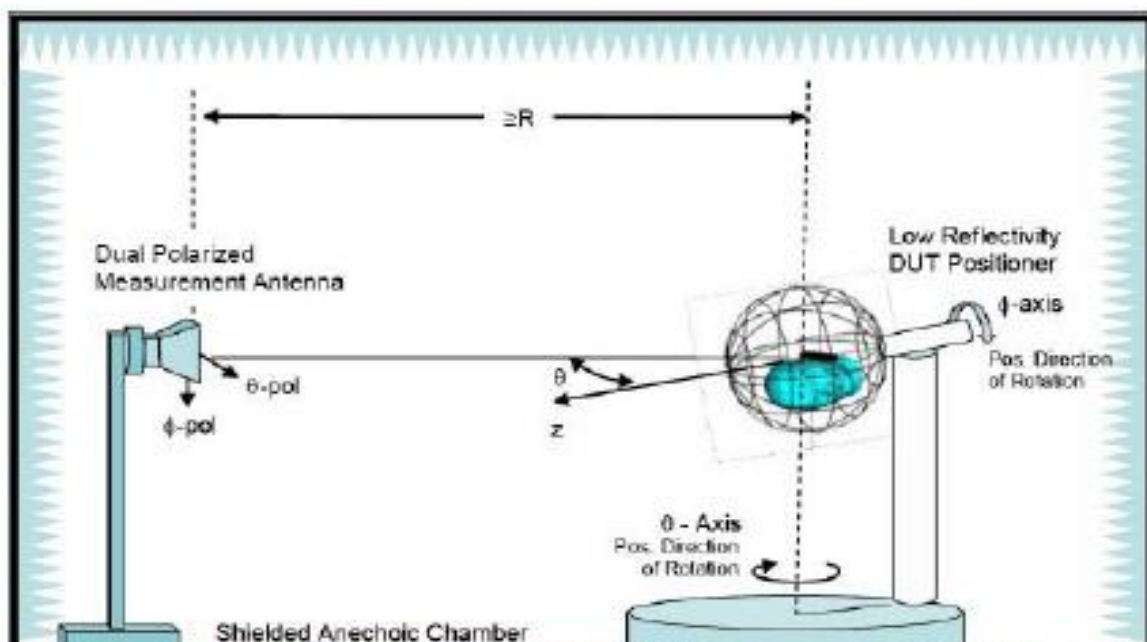
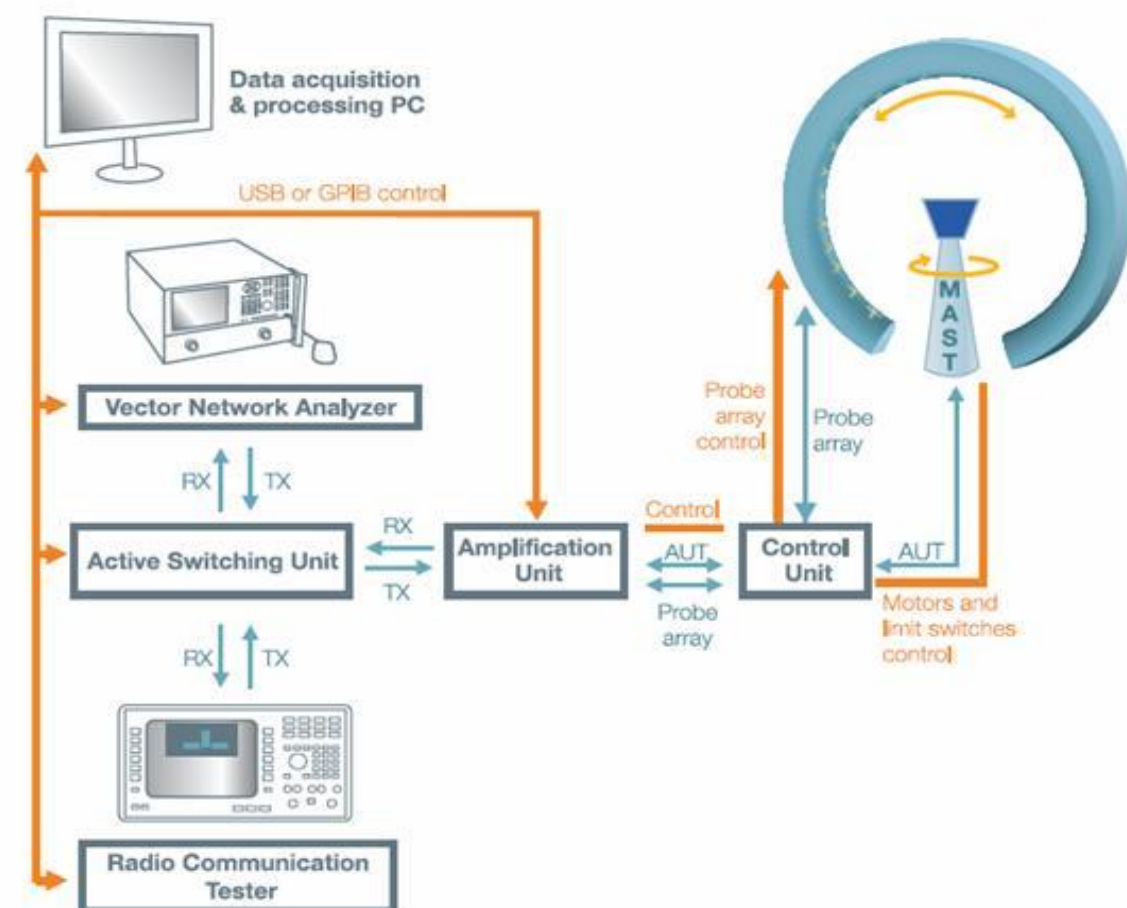
Agilent E5071C Network Analyzer



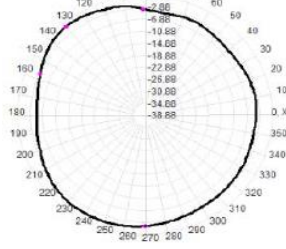
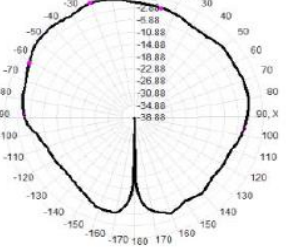
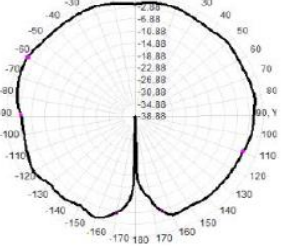
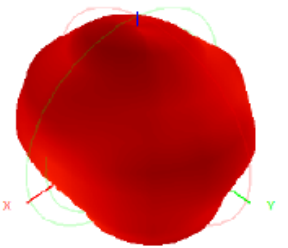
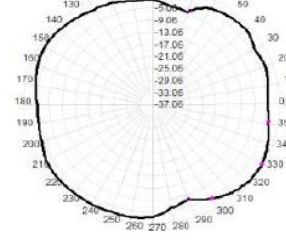
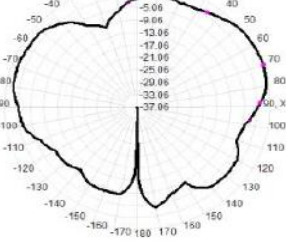
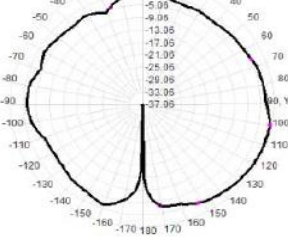
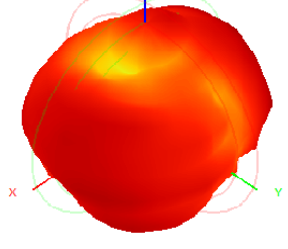
RF Antenna (Return Loss)



Setup



Patten

	XoY	XoZ	YoZ	3D
###	Total(H-YZ), Max=-0.25dBi, C/D=4.88 	2400.0MHz Total(EI-XZ), Max=1.12dBi 	2400.0MHz Total(EI-YZ), Max=-0.25dBi 	
5150	Total(H-YZ), Max=2.44dBi, C/D=5.88 	5150.0MHz Total(EI-XZ), Max=2.94dBi 	5150.0MHz Total(EI-YZ), Max=1.98dBi 	



Test

Efficiency

Frequency ID	1	2	3	4	5	6	7	8	9	10	11				
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500				
Gain (dBi)	1.12	1.35	1.44	1.31	1.68	1.99	2.43	2.40	2.33	2.21	2.43				
Efficiency (%)	52.08	54.05	56.00	57.16	60.65	62.19	61.73	63.95	63.66	62.19	63.95				
Frequency ID	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Frequency (MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Gain (dBi)	2.94	4.16	4.28	4.48	4.26	4.66	4.91	4.85	4.64	4.33	4.54	4.55	4.48	4.75	4.60
Efficiency (%)	70.87	73.02	86.40	78.31	79.12	73.45	73.02	72.96	72.91	75.12	74.57	72.96	73.50	73.28	63.50

