



DONGGUAN SLEing INTEL-TECH CO.,LTD

SPECIFICATION APPROVAL SHEET

CUSTOMER : _____

CUS PART NO : _____ REV : X3

SPECIFICATION : 2.4-2.5/5.15-5.85GHz
WIFI MAIN Antenna L=250mm(Ø1.13+MHF) weight : _____

SUP PART NO : SLEingB243430260

DATE : 2024.03.29 ;

SUP APPROVED :

APPROVED	Structure audit	RF CHECKED	QA CHECKED	DESIGNED
Jerry 2024-3-29	Jerry	LSY	LSY	Jerry

CUS APPROVED :

APPROVED	CHECKED	QA CHECKED	承办 DESIGNED

DONGGUAN SLEing INTEL-TECH CO.,LTD

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

Tel: +86-076989208968

Fax: +86-0769-89208969

www.sleing.com

DONGGUAN SLEing INTEL-TECH CO., LTD

MODIFICATION RECORD SHEET

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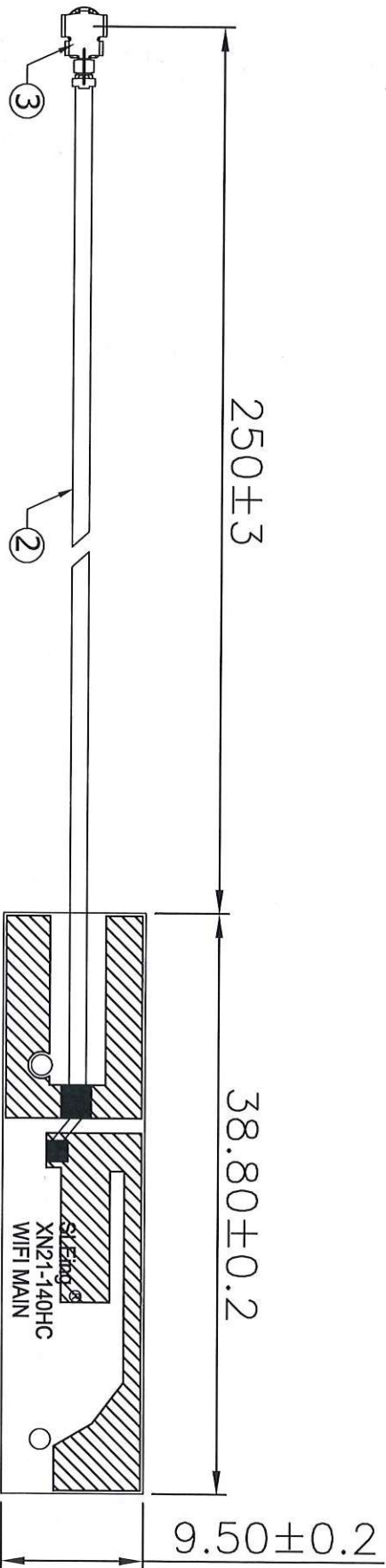
(Spec Item)

(NO.)	(Project)	(Remark)	(Page)
1	(Spec Cover)		1
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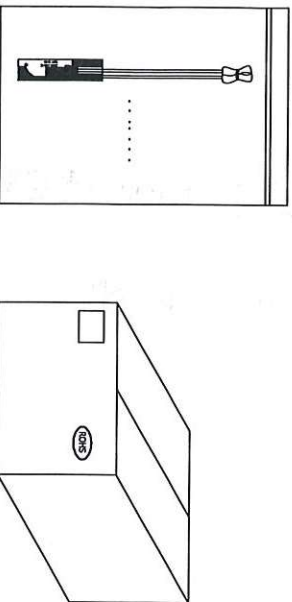
Give clear indication of:

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	2023.11.25
X2	增加线长	2024.03.21
X3	天线外形, 线路及线长变更	2024.03.29



Specification:
Frequency Rang:2.4~2.5/5.15~5.85GHZ(带机测试)
Return Loss:-10dB or less
VSWR:1.92 Max



NO	PART NAME	DESCRIPTION	REMARK	Q'TY
3	Connector	MHF Plug for $\Phi 1.13$ Cable (LJ)	第四代端子	1
2	Cable	$\Phi 1.13$ mm Coaxial Cable Black(低损耗),50 Ω		1
1	FPCB	FPCB,L38.8*W9.5*TO.2mm,Color:Black	300LSE Adhesive	1
8	PART NAME	DESCRIPTION	REMARK	Q'TY

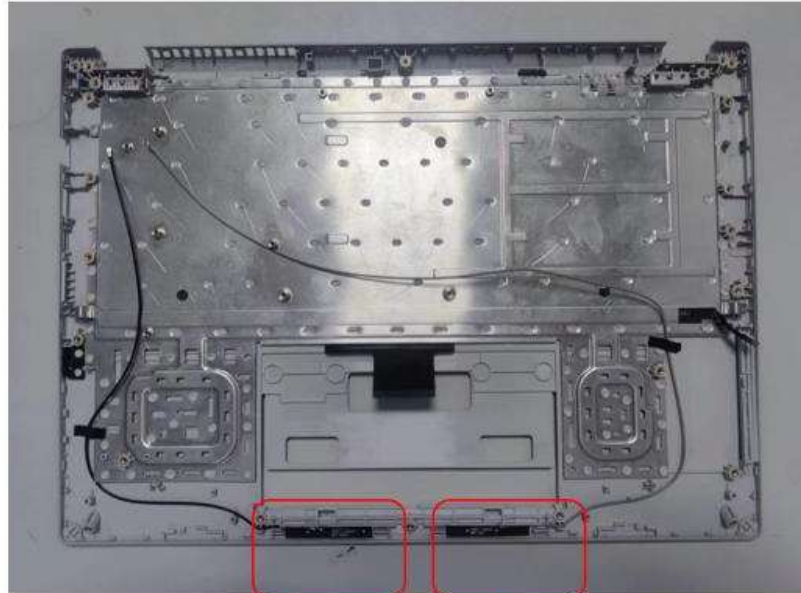
SLEing® 森岭 东莞市森岭智能科技有限公司 DONGGUAN SLEing INTEL-TECH CO., LTD				CUSTOMER	
TOLERANCE UNLESS OTHERWISE SPECIFIED				PART NO	
UNIT:mm				TITLE	
ANGLES $\pm 0.5^\circ$				S.L P/NO	
X. ± 0.3				SLEingB243430260	
SHEET: 1/1				SIZE	
SCALE: 1/1				DRAWED	
XXX. ± 2.0				CHECKED	
A4				APPROVED	
Terry				2024.03.29	
2024.03.29				2024.03.29	

Test Reports

Electrical Properties	
Frequency	2400-2500/5150-5850 MHz(带机测试)
Impedance	50 Ohm Nominal
V.S.W.R	≤ 1.98
Return Loss	-10dB Max
Radiation	Omni-directional
Gain (Peak)	2.4G:4.48 dBi/5.8G:4.73 dBi/7.15G:4.94dBi
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

Antenna assembly diagram

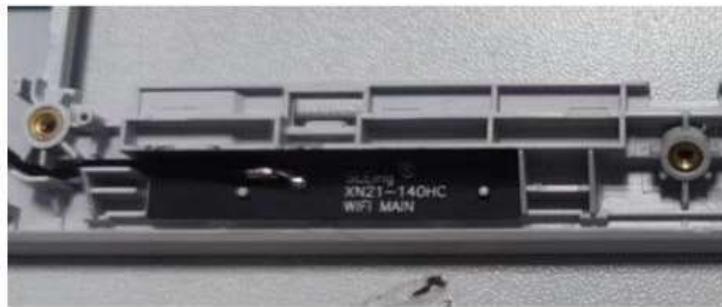
Device



WiFi Main

WiFiAUX

Antenna



WiFi Main

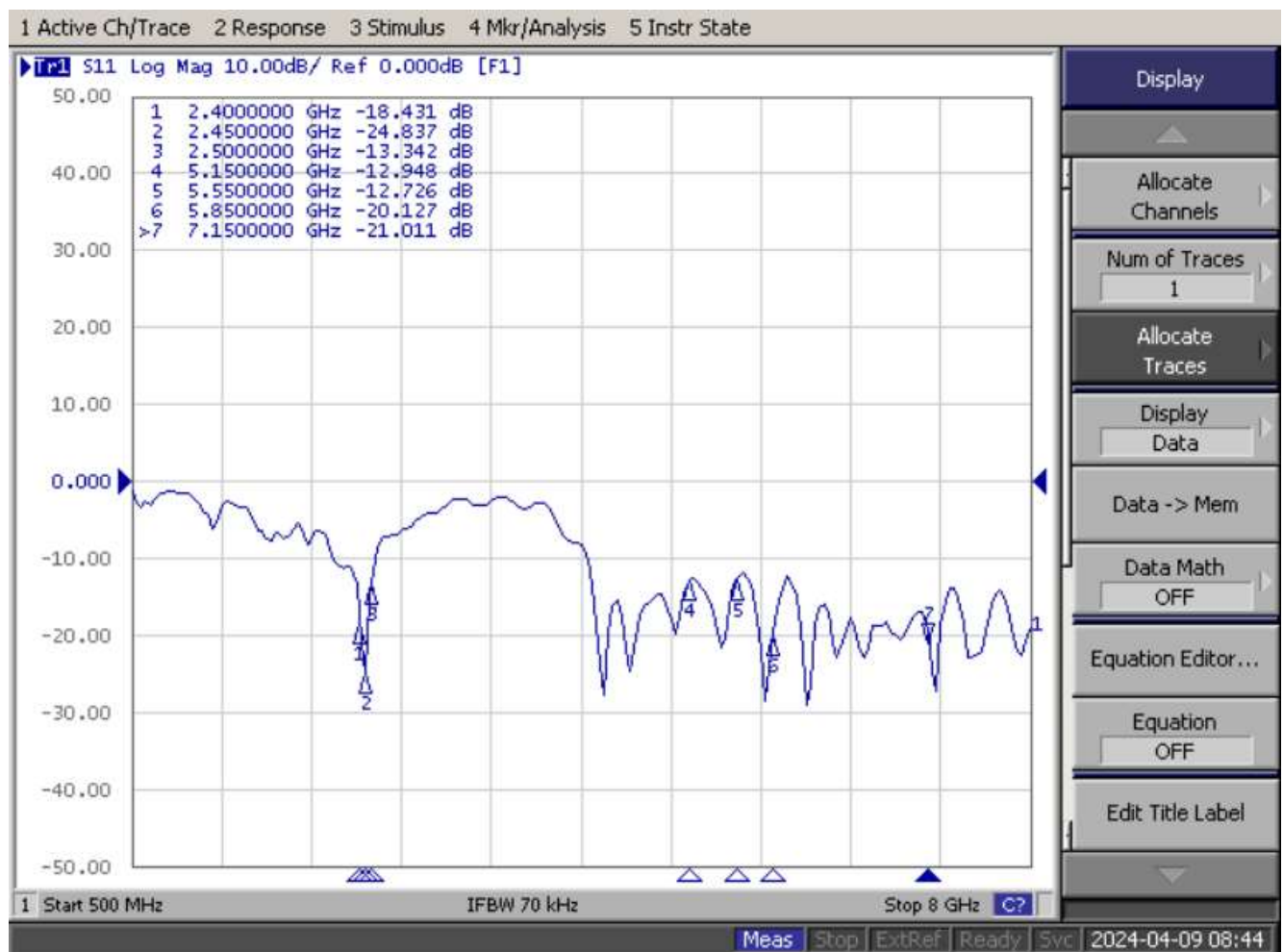


S Parameter Test

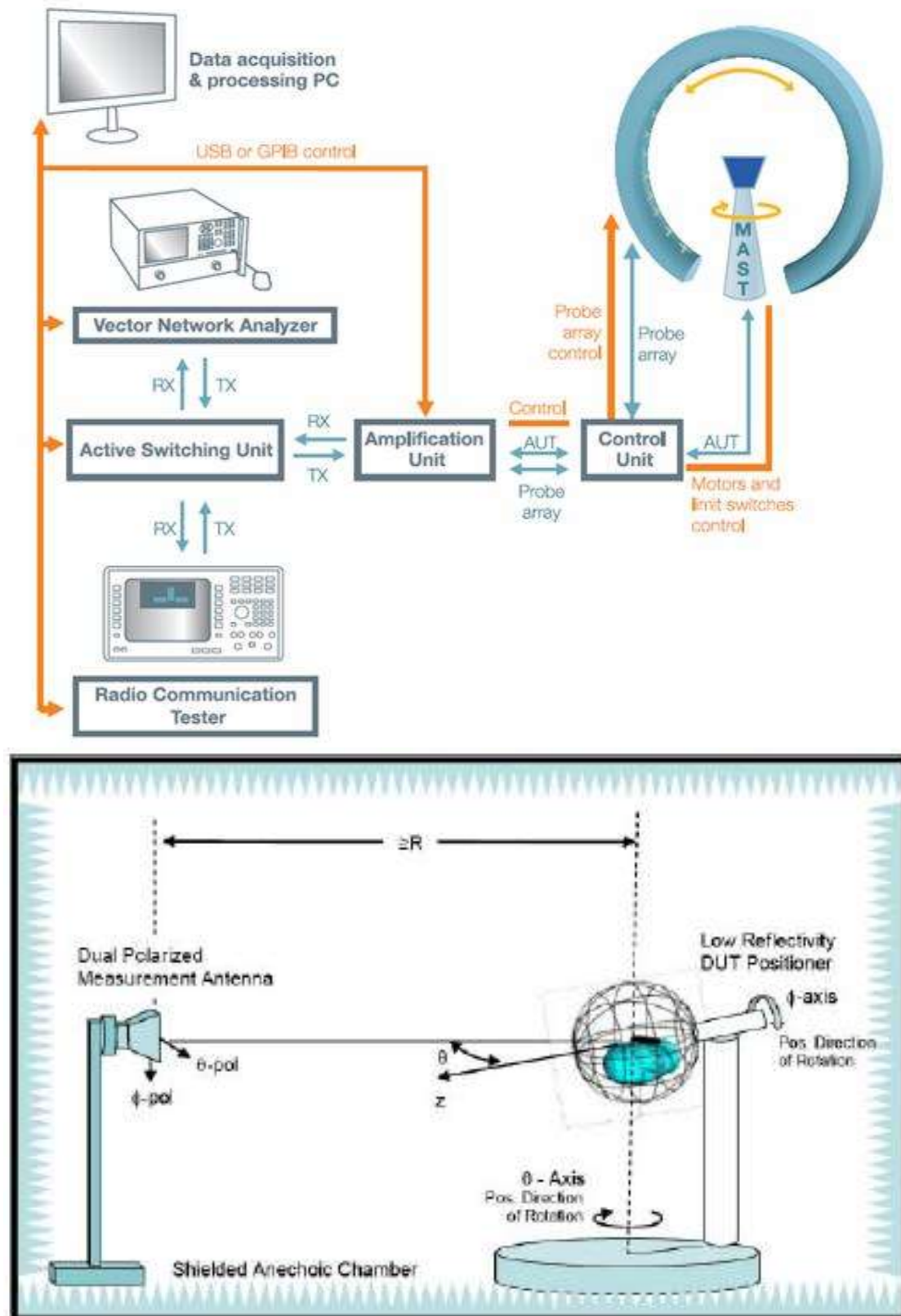
Agilent E5071C Network Analyzer



WIFI Antenna (Return Loss)



Test Setup





DONGGUAN SLEing INTEL-TECH CO.,LTD

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
Efficiency (dBi)	-2.00	-1.79	-1.71	-1.70	-1.60	-1.68	-1.86	-2.07	-2.21	-2.52	-2.64
Gain (dBi)	4.19	4.15	4.29	4.38	4.39	4.48	4.45	4.16	3.90	3.94	3.80
Efficiency (%)	63.03	66.15	67.40	67.58	69.24	67.89	65.17	62.09	60.13	55.98	54.44

12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
-2.80	-2.87	-2.46	-2.54	-2.67	-2.44	-2.56	-2.62	-2.88	-3.17	-2.77	-2.76	-2.61	-2.84	-2.97
4.16	3.89	3.91	3.90	4.39	4.48	4.58	4.42	4.26	4.36	4.50	4.73	4.67	4.72	4.46
52.46	51.70	56.79	55.76	54.02	57.06	55.45	54.65	51.55	48.23	52.85	53.02	54.83	51.95	50.51

27	28	29	30	31	32	33	34	35	36	37	38	39
5925	6025	6125	6225	6325	6425	6525	6625	6725	6825	6925	7025	7125
-3.05	-3.03	-2.33	-2.83	-2.51	-2.07	-2.63	-2.21	-2.83	-2.64	-2.87	-2.30	-2.55
3.47	3.20	4.47	4.24	4.94	3.86	4.40	4.50	4.27	3.79	3.80	4.66	4.06
49.49	49.82	58.46	52.15	56.13	62.04	54.61	60.17	52.07	54.39	51.70	58.83	55.60

Product packaging specification

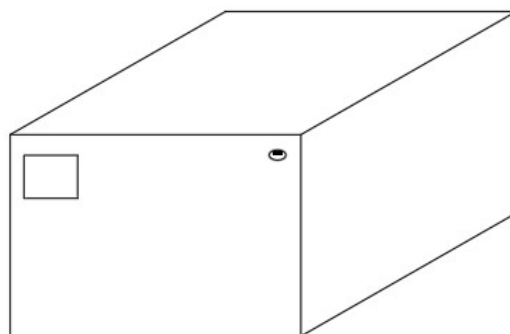
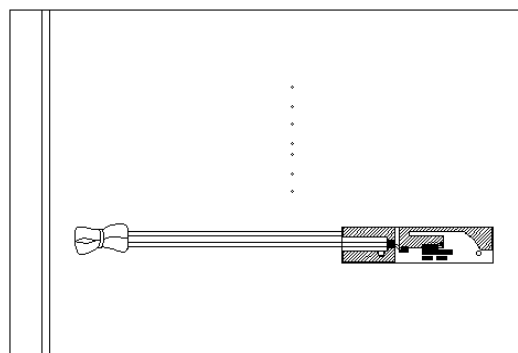
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Name of finished product	WIFI MAIN	customer	
Finished product number	SLEingB243430260	本 REV.	X3



单PCS天线



承办 DESIGNED		CHECKED		APPROVED	
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