

Specification for Approval

CONTENTS

Customer:	N/A	Vendor:	N/A
Customer P/N:	N/A	HL P/N:	N/A
Product model:	HSELAQ_04_20MG_31	HL Device Name:	N/A
Pcb antenna brand:	Fuxiang	Approval Date:	2025-4-25

Internal Approval		
Approved By:	Checked By:	Prepared By:
		Zhang Bin
Customer Approval		

Revision:

Date	Rev	Description of Changes
2024-9-19	A	Initial Release

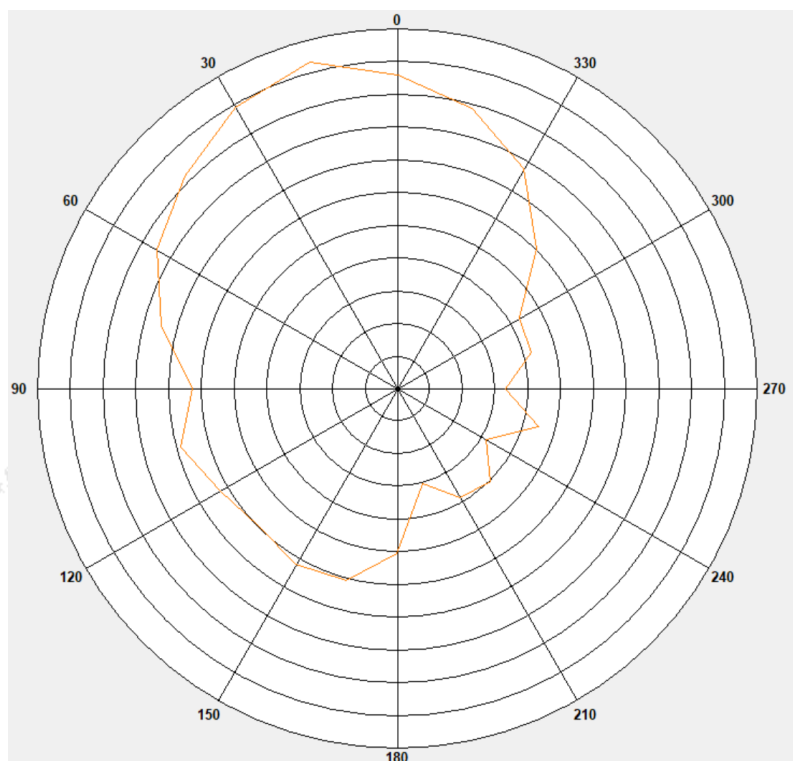
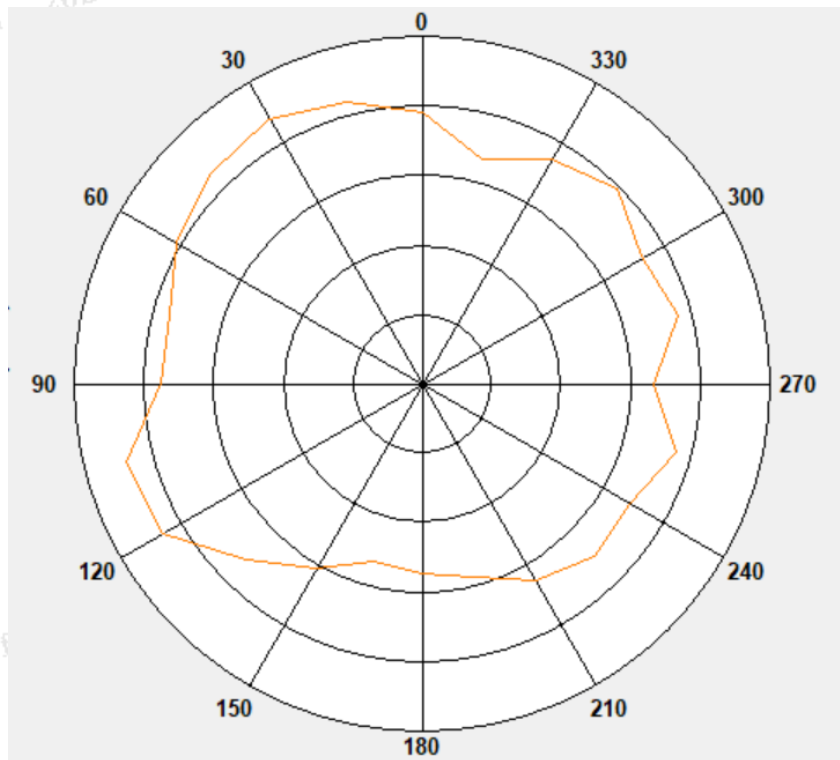
1、Products Electrical		
PCB Antenna		
1	Antenna Model	PCB IFA Antenna
2	Frequency Range	2400-2500MHz
3	VSWR (or return loss)	<2 (<-9.5dB)
4	Bandwidth	>100MHz
5	Impedance	50 ohm
6	Gain	-0.4dBi
7	Polarization	LP

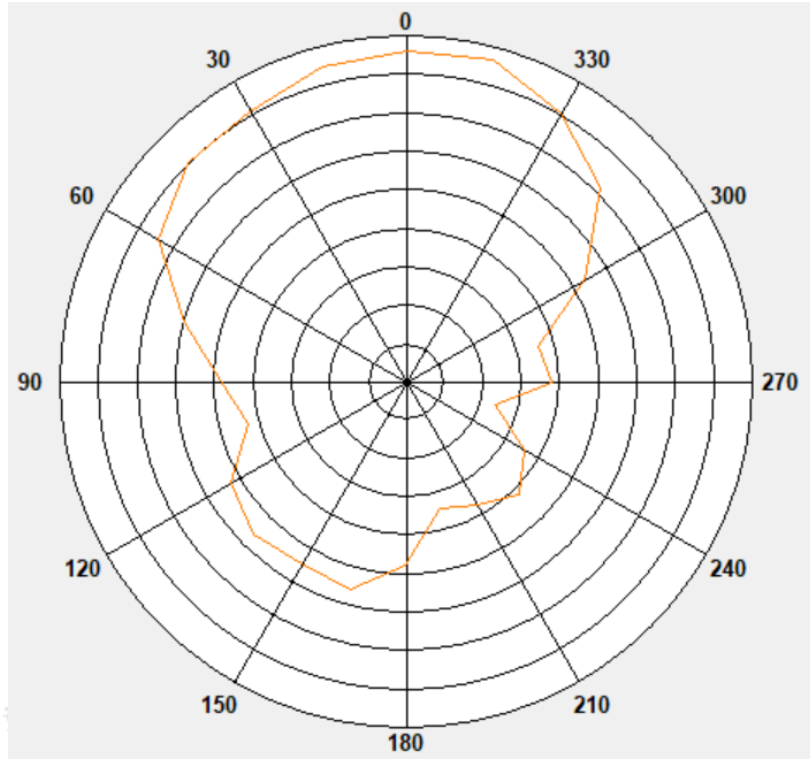
2、Antenna Test Data

2.1 VSWR



2.2 RADIATION PATTERNS 2450MHz





2.3 GAIN AND EFFICIENCY

Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	34.4	-0.8
2410	35.0	-0.7
2420	31.4	-1.4
2430	33.3	-0.5
2440	33.5	-0.5
2450	35.3	-0.5
2460	34.4	-1.6
2470	34.2	-1.4
2480	34.1	-0.4
2490	32.2	-1.0
2500	33.2	-1.0

3、PCB ANTENNA (MM)

