

Specification for Approval

CONTENTS

Customer:	N/A	Vendor:	N/A
Customer P/N:	N/A	HL P/N:	N/A
Product model:	HSEL4Q_02_66M_33	HL Device Name:	N/A
Pcb antenna brand:	Fuxiang	Approval Date:	2024-3-29
Manufacturer	HANSHOW PTE. LTD.		
Address	138 ROBINSON ROAD #02-33 OXLEY TOWER SINGAPORE(068906)		

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

Revision:

Date	Rev	Description of Changes
2021-4-08	A	Initial Release

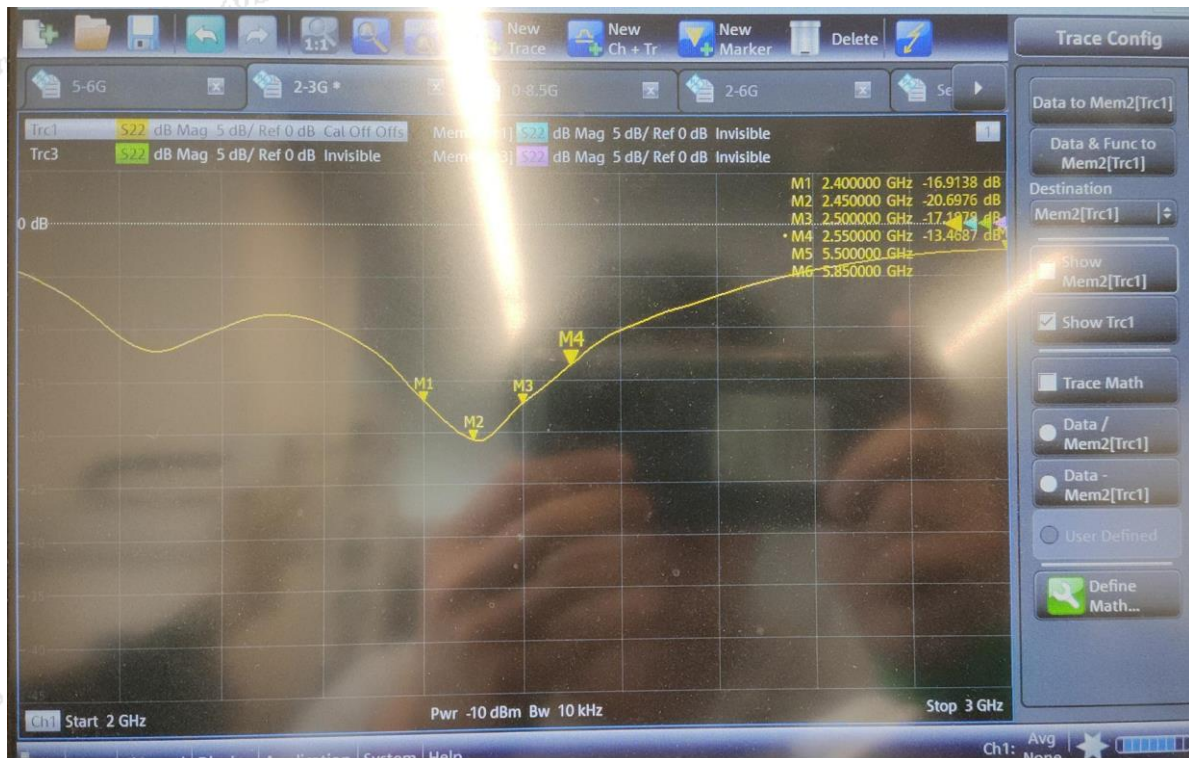
1、Products Electrical

PCB Antenna

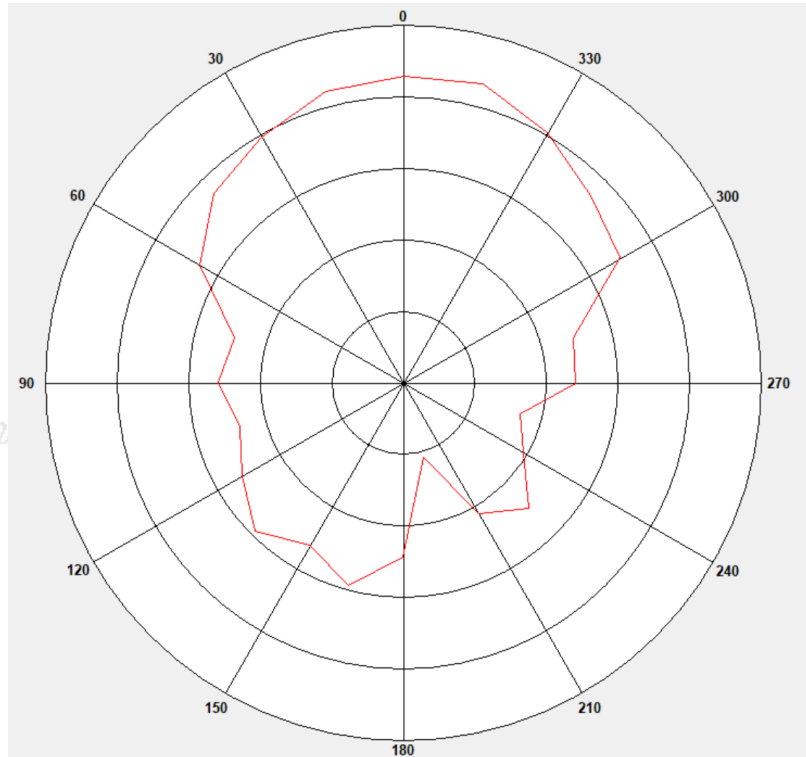
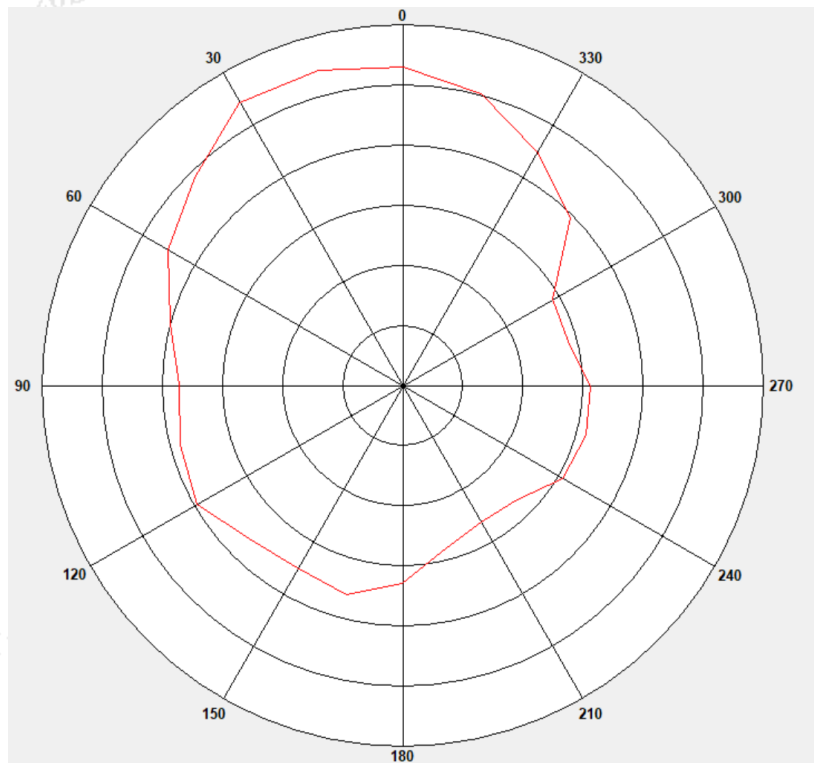
1	Antenna Model	PCB IFA Antenna
2	Frequency Range	2400-2500MHz
3	VSWR (or return loss)	<2 (<-9.5dB)
4	Broadband	>100MHz
5	Impedance	50 ohm
6	Gain	-0.6dBi
7	Polarization	LP

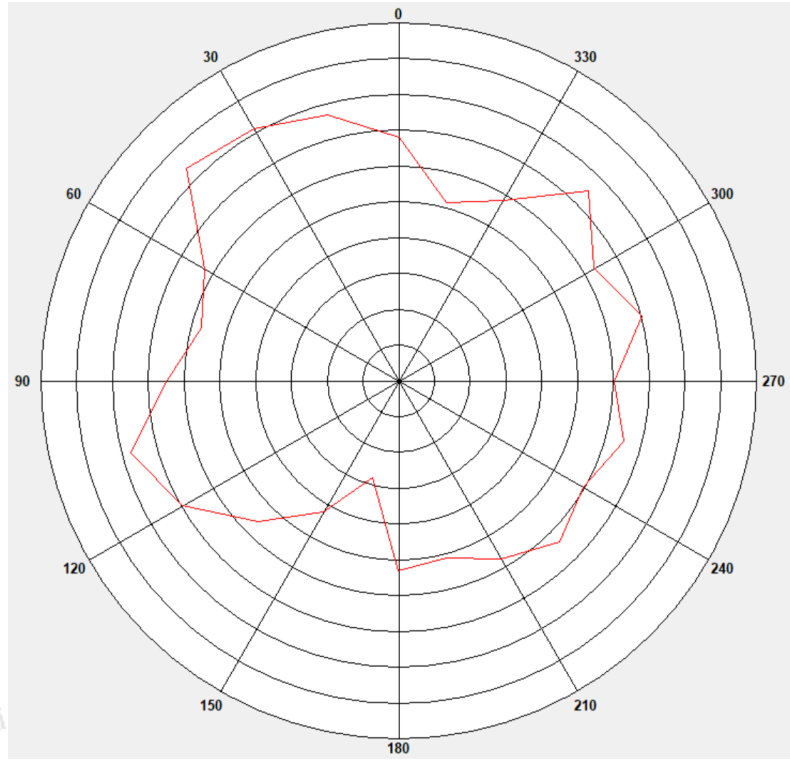
2、Antenna Test Data

2.1 VSWR



2.2 RADIATION PATTERNS 2450MHz





2.3 GAIN AND EFFICIENCY

Frequency (MHz)	Efficiency (%)	Gain (dBi)
2400	37.6	-1.4
2410	35.0	-1.6
2420	31.4	-1.2
2430	37.3	-1.5
2440	34.5	-1.4
2450	34.8	-1.4
2460	35.2	-0.6
2470	34.0	-0.7
2480	34.6	-0.7
2490	32.5	-1.7
2500	31.2	-1.3

3、PCB ANTENNA (MM)

