

Specification for Approval

CONTENTS

Customer:	N/A	Vendor:	IOE
Customer P/N:	N/A	HL P/N:	N/A
Customer Device Name:	N/A	HL Device Name:	N/A
Version:	Initial Release	Approval Date:	

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

Revision:

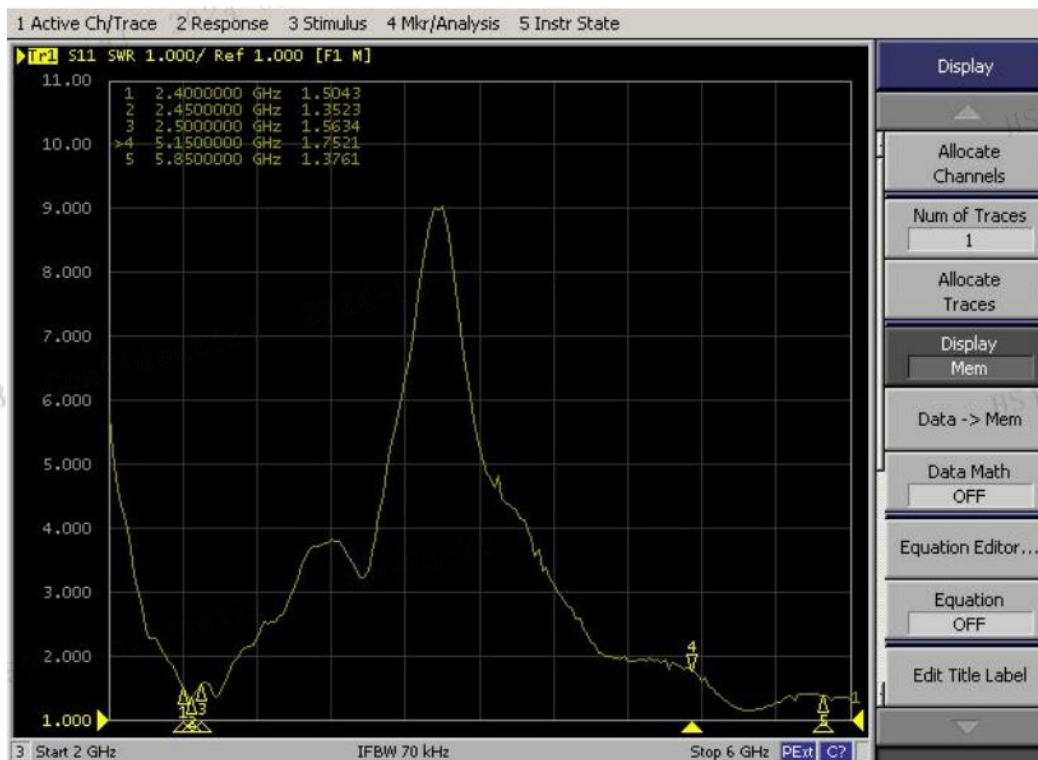
Date	Rev	Description of Changes
2024-03-09		

1、Products Electrical		
PCB Antenna		
1	Antenna Model	PCB IFA Antenna
2	Frequency Range	2400-2500MHz; 5150-5850MHz
3	VSWR	<2
4	Broadband	>80MHz; >650MHz
5	Impedance	50 ohm
6	Gain	
7	Polarization	LP
8	Type	PCB IFA Antenna

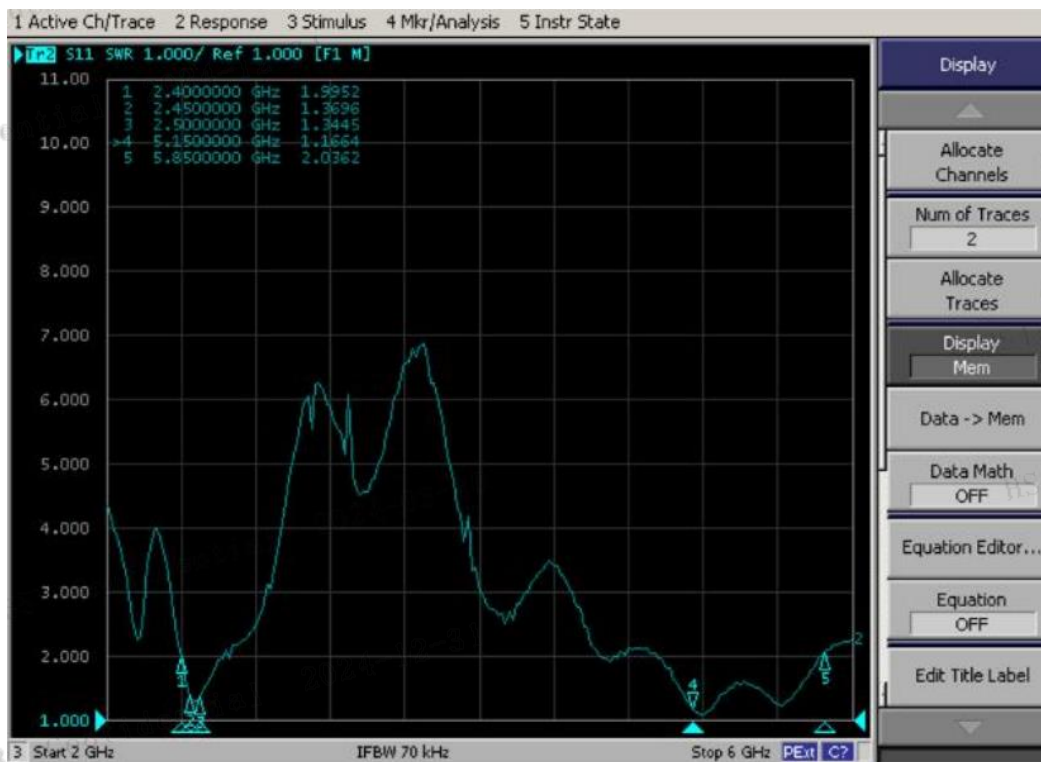
2、Antenna Test Data

2.1 VSWR

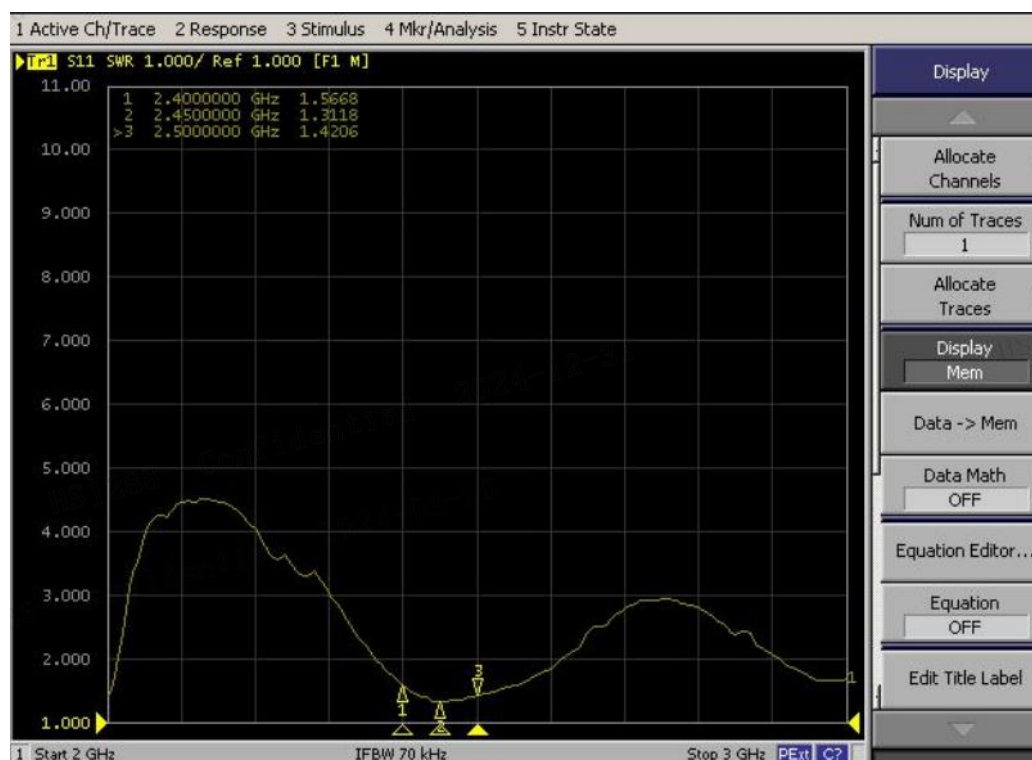
Wi-Fi ANT1



Wi-Fi ANT2



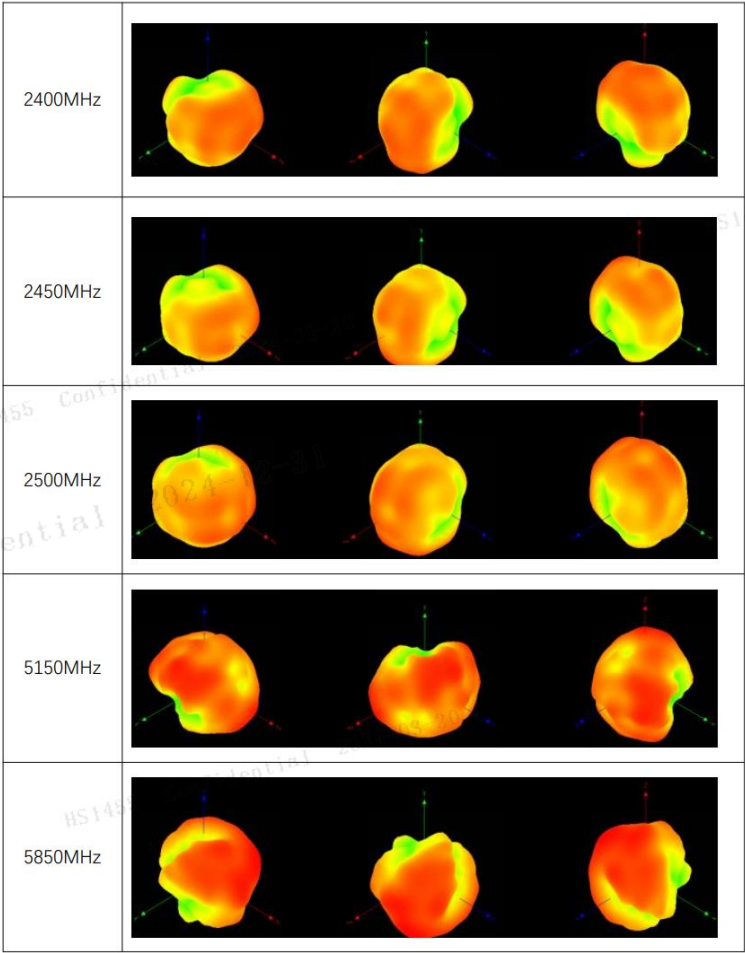
ESL ANT3



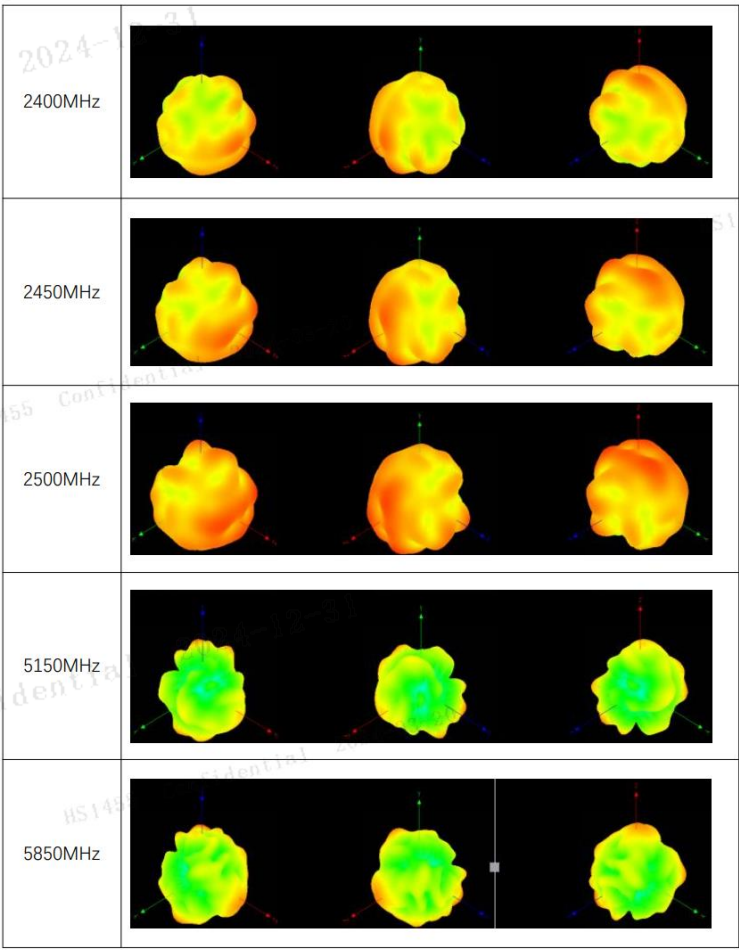
ANT4

2.2 RADIATION PATTERNS

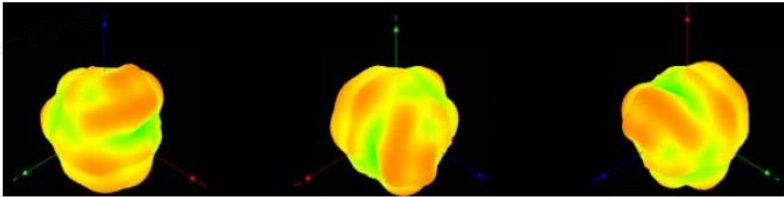
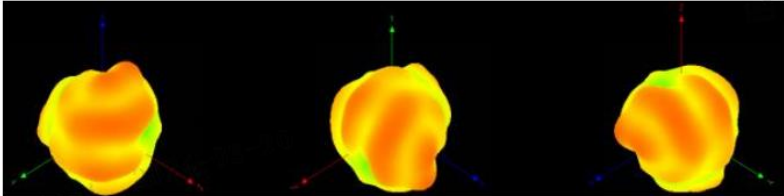
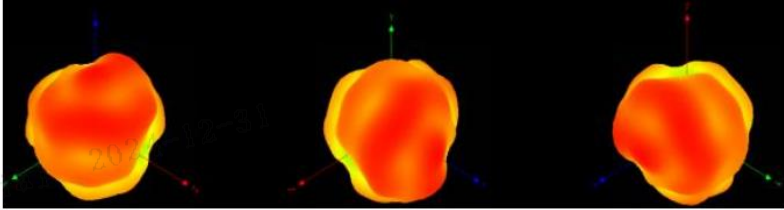
ANT1



ANT2 2440MHz



ANT3 2440MHz

2400MHz	
2450MHz	
2500MHz	

2.3 GAIN AND EFFICIENCY

	Wi-Fi ANT1	
Frequency / MHz	Efficiency / %	Gain/ dBi
2400	50	1.3
2410	49	1.2
2420	52	1.2
2430	52	1.7
2440	52	1.6
2450	51	1.8
2460	49	1.7
2470	47	1.2
2480	46	1.2
2490	43	1.1
2500	43	1
AVG	48	1.3
5150	45	0.9
5200	46	0.9
5250	47	0.8
5300	45	1
5350	46	1
5400	46	1
5450	57	1.3

5500	53	1.1
5550	55	1.2
5600	53	1.4
5650	54	1.2
5700	59	1.1
5750	58	1.1
5800	58	1.1
5850	60	1.2
AVG	55	1.1
	Wi-Fi ANT2	
Frequency / MHz	Efficiency / %	Gain/ dBi
2400	37	1
2410	37	0.9
2420	39	0.8
2430	40	0.8
2440	42	0.9
2450	42	0.8
2460	42	1
2470	41	1
2480	41	1
2490	40	1
2500	39	1.1

AVG	40	0.9
5150	49	0.9
5200	51	0.9
5250	52	0.8
5300	54	1
5350	56	1
5400	57	1
5450	57	1.3
5500	53	1.1
5550	55	1.2
5600	53	1.4
5650	54	1.2
5700	59	1.1
5750	58	1.1
5800	58	1.1
5850	60	1.2
AVG	55	1.1
	ESL ANT3	
Frequency / MHz	Efficiency / %	Gain/ dBi
2400	38	1.1
2410	39	1.1
2420	39	1.1

2430	40	1.2
2440	41	1.2
2450	42	1.2
2460	42	1.4
2470	42	1.5
2480	41	1.2
2490	40	1.3
2500	39	1.5
AVG	40	1.3