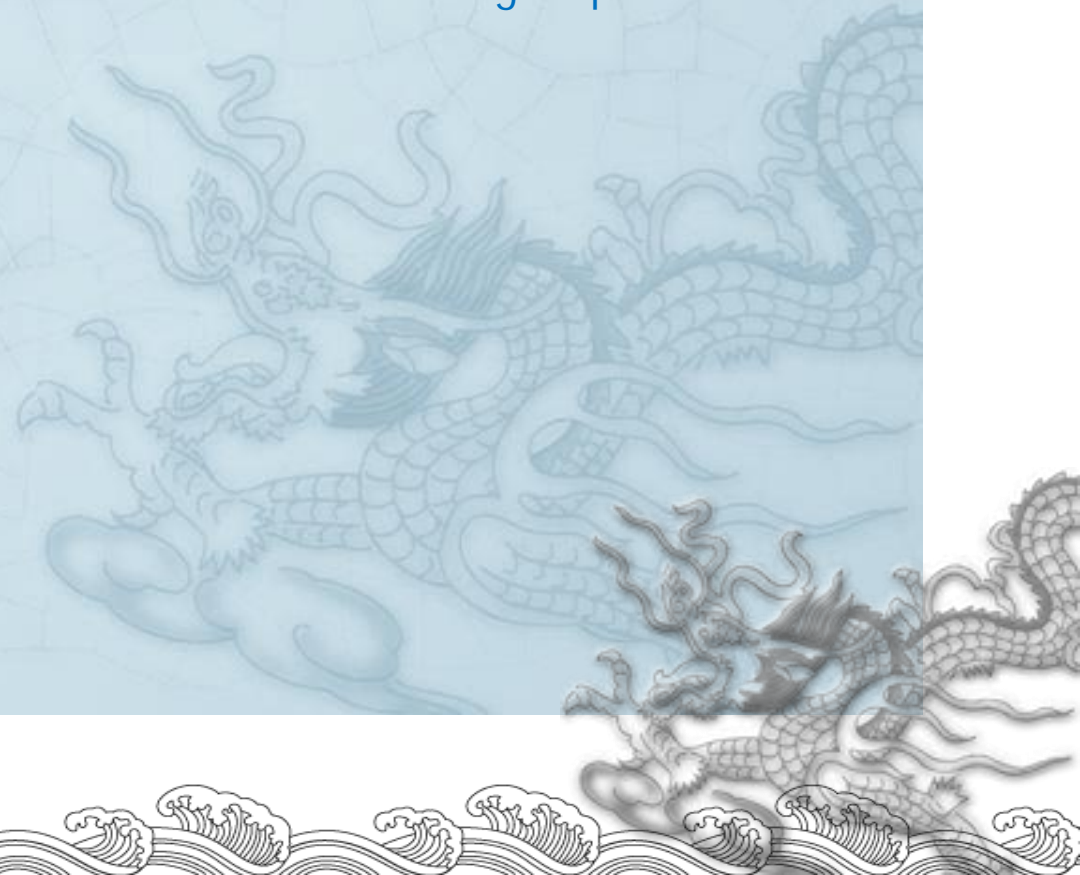




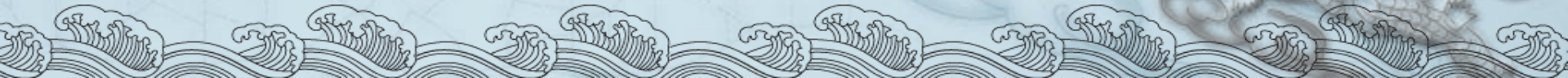
Shenzhen Ti anda Communication Co. , Ltd

LVD01 Antenna commi ssi oni ng report



# catalogue

- ①、 Test equipment
- ②、 Project Description
- ③、 Debug version record
- ④、 Matching circuit
- ⑤、 Complete machine test data
- ⑥、 Explain

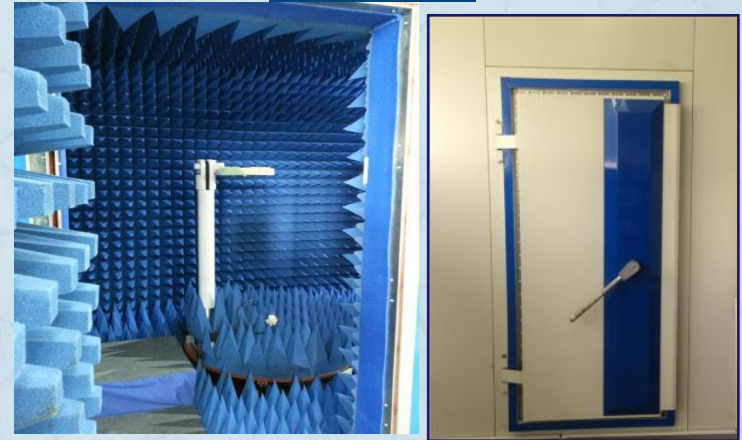


# Test equipment

SATIMO—24



广屏—ETS



Amway MT8820C



Agilent 8960



Agilent E5071C

测试系统	测试环境	有源测试	无源测试
Wide screenETS	Temperature : 22°C±3°C Humidity: 50%±15%	Support 2G/3G/4G	600MHZ——6G

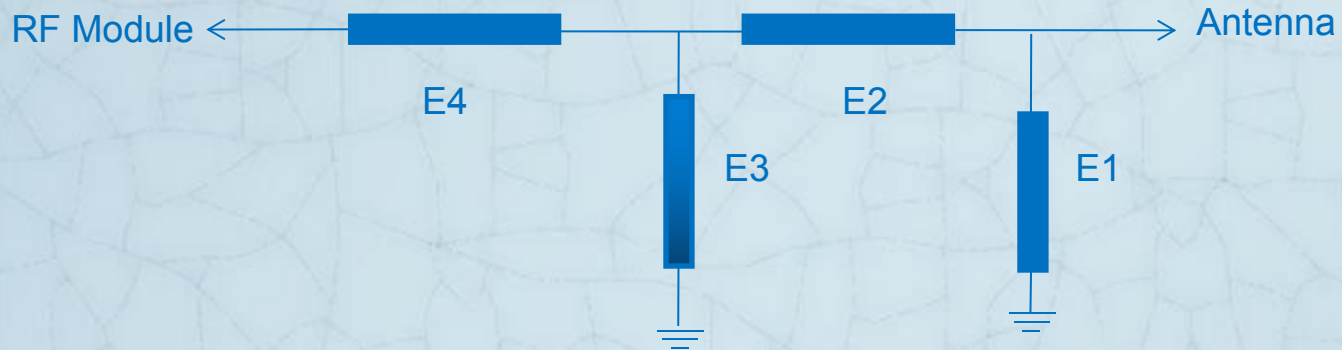
# Project overview

Customer Name		Entry name	Model	Antenna implementation mode	Model size
Lindo		BAA01	Doorbell	FPC	/
频段					
Main antenna	2G	/	Sub antenna	GPS	/
	3G	/		WIFI/BT	2400--2500MHz
	4G	FDD: /		433MHz	
		TDD: /		NFC	/
壳料材质		Plastic cement			

# Test version record

版本	日期	内容概述
V1	2021.07.23	Passive test data of WIFI antenna
V2		
V3		
V5		
V6		
V7		
V5		
V9		
V10		

# Matching circuit



Element	Value
E1(0402)	NC
E2(0402)	0Ω
E3(0402)	NC
E4(0402)	

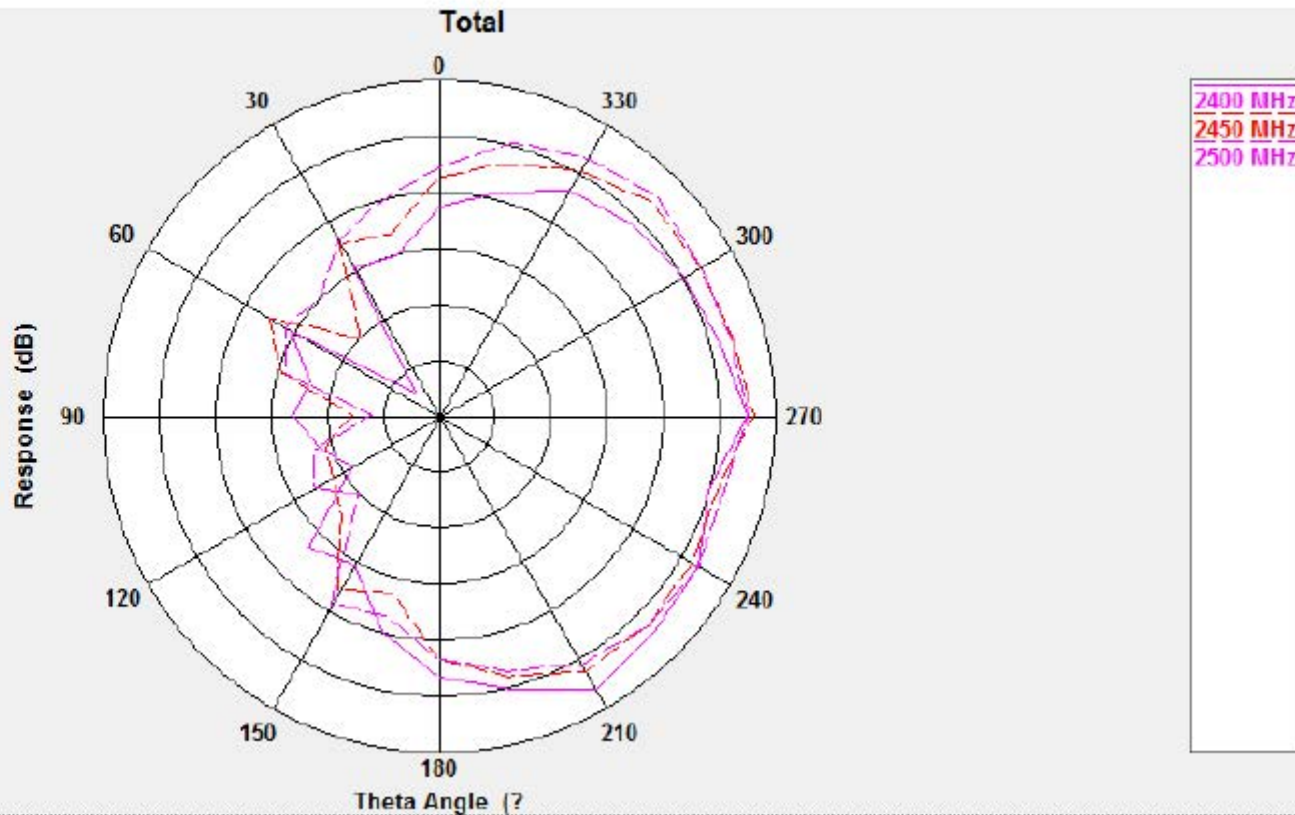
# Test Data



AntennaS11

# Test Data

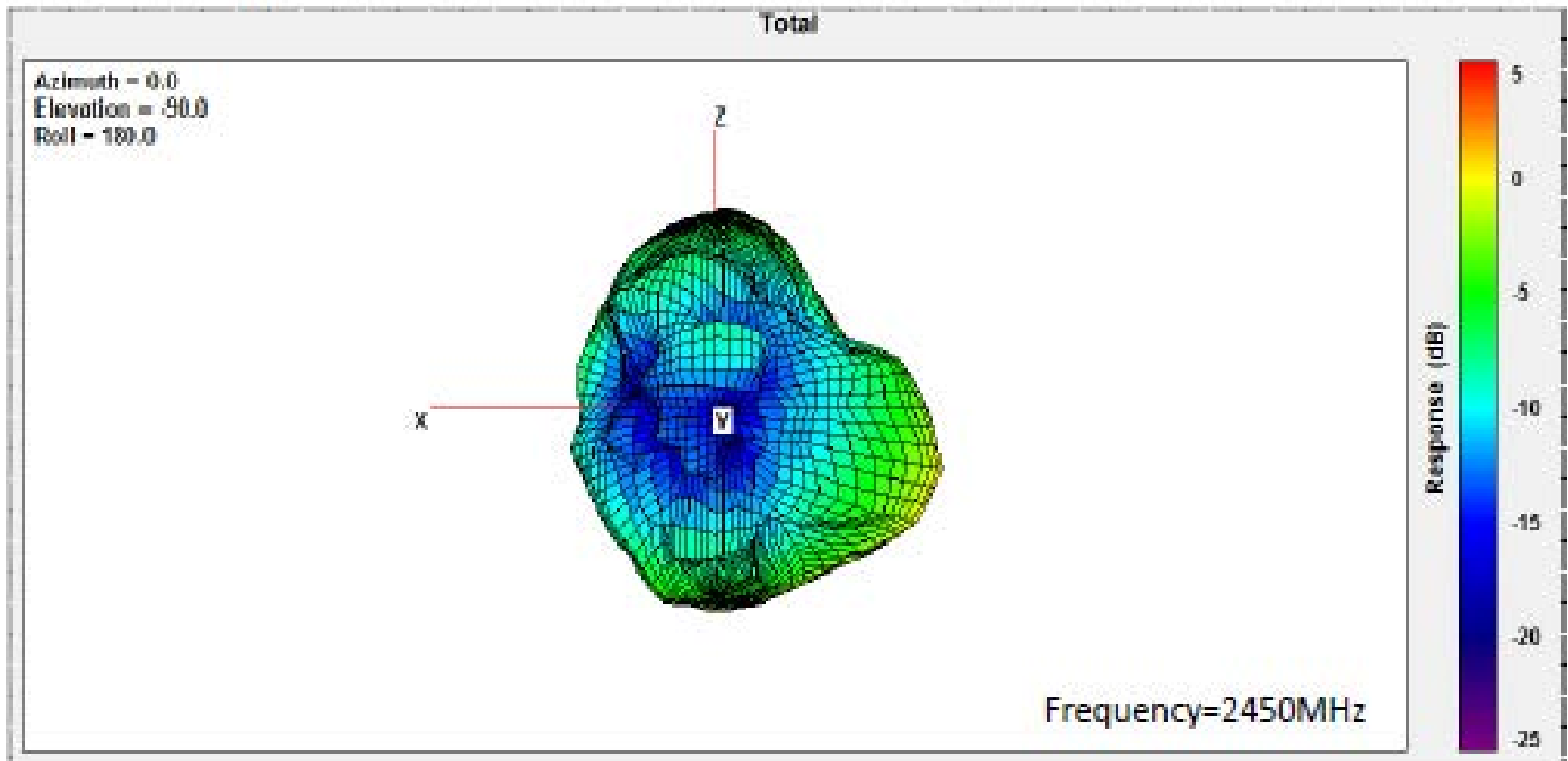
## 2-D antenna pattern (Phi=90°)





# Test Data

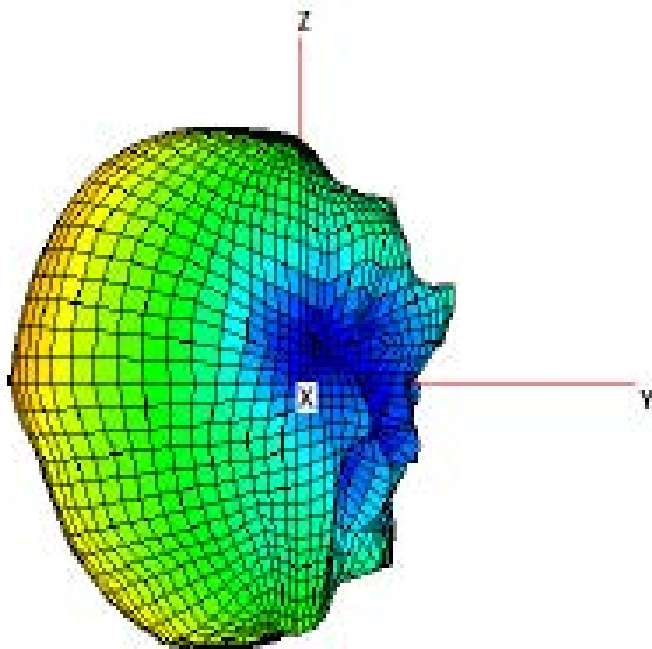
## 3-D antenna pattern



# Test Data

Total

Azimuth = 90.0  
Elevation = 0.0  
Roll = -90.0



Response (dB)

5

0

-5

-10

-15

-20

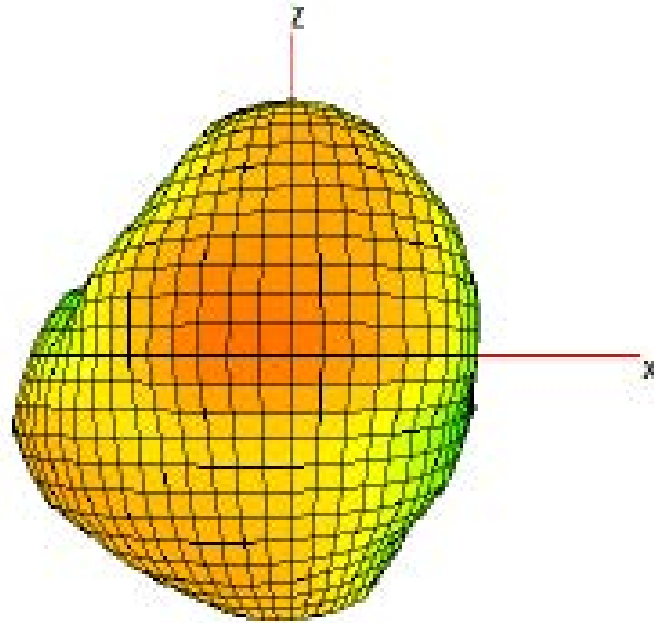
-25

Frequency=2450MHz

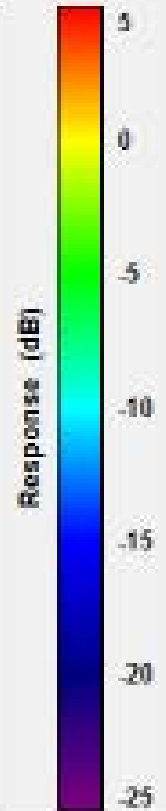
# Test Data

Total

Azimuth = 90.0  
Elevation = 90.0  
Roll = -90.0



Frequency=2450MHz



# Test Data

Passive Test For 2.4-2.5G									
Freq (MHz)	Effi (%)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	54.23	1.84	-0.31	26.843	27.387	1.84	-12.95	48.31	48.37
2410	54.04	1.83	-0.32	26.962	27.077	1.83	-12.04	48.38	48.42
2420	55.22	2.13	-0.02	27.271	27.948	2.13	-10.98	48.26	48.33
2430	56.35	1.94	-0.21	29.179	27.168	1.94	-10.84	48.26	48.35
2440	57.77	2	-0.15	29.858	27.914	2	-13.3	48.44	48.44
2450	57.63	2.01	-0.14	29.025	28.608	2.01	-10.14	48.72	48.63
2460	57.27	2.06	-0.09	29.695	27.575	2.06	-12.74	48.78	48.68
2470	56.96	2.03	-0.12	29.604	27.357	2.03	-10.51	48.72	48.61
2480	56.23	2.08	-0.07	28.843	27.387	2.08	-12.95	48.65	48.49
2490	55.04	2.02	-0.13	27.962	27.077	2.02	-12.04	48.57	48.34
2500	55.22	2.09	-0.06	28.271	26.948	2.09	-10.98	48.38	48.15

# Antenna position



Antenna position





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谢谢!