

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称 315/433 内置天线

PRODUCT NAME:

客 户 料 号

CUSTOMER P/N: SK2535丰田车钥匙

优比电子料号

Youbi P/N:

REV: E

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:		
DATE:	2025/11/27	

Modification History

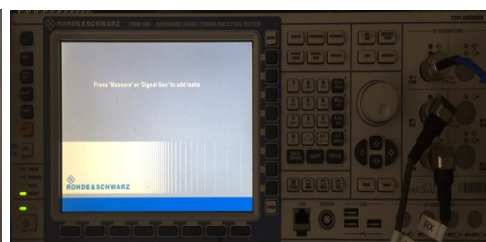
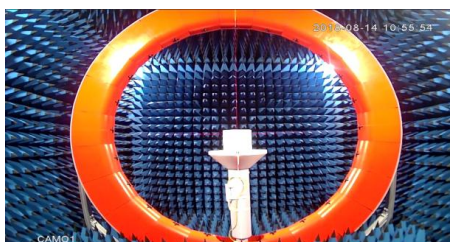
Version	Content Revision	Issued by	Date
A	Original version	Zhuzhi jun	2025-11-27

Content

<i>Item</i>	<i>Description</i>
1.-----	Test Items and Equipment
2.-----	S Parameter
3.-----	Efficiency and Gain
4.-----	Radiation Pattern

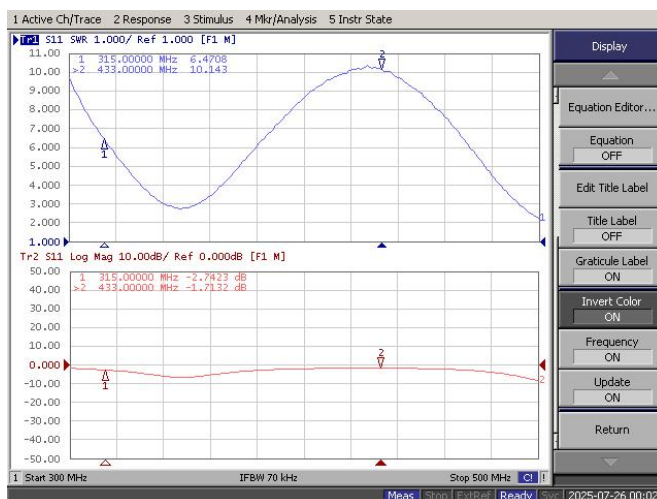
1.Test Items and Equipment

	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave darkroom (5m*5m*5m) 2.Comprehensive test instrument (CMW500)



2. S Parameter

Frequency (MHz)	VSWR	Return Loss (dB)
315	6.47	-2.76
433	10.14	-1.71

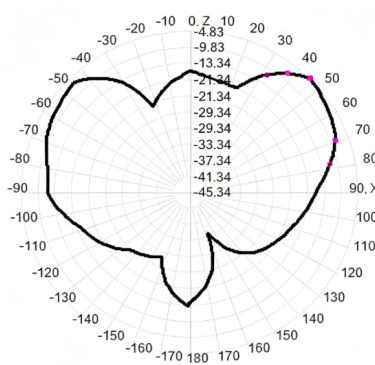
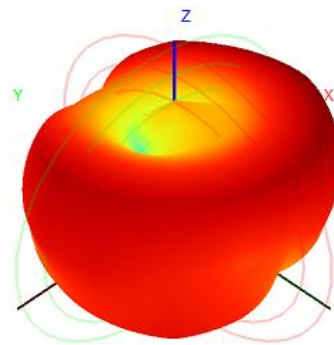
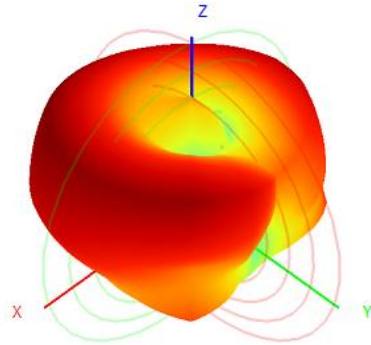


3.Efficiency and Gain

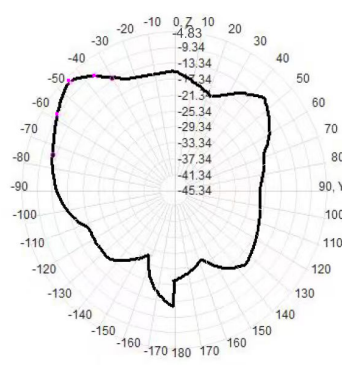
Frequency (MHz)	315	433
Efficiency (%)	5.47	1.28
Gain (dBi)	-4.83	-13.83

4. Radiation Pattern 2D&3D

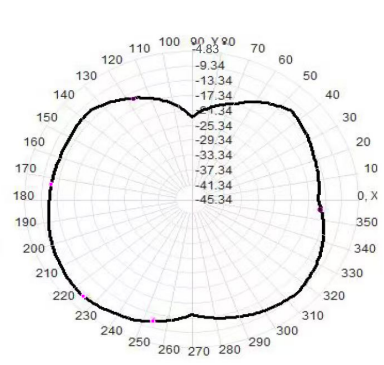
315MHz



Phi 0

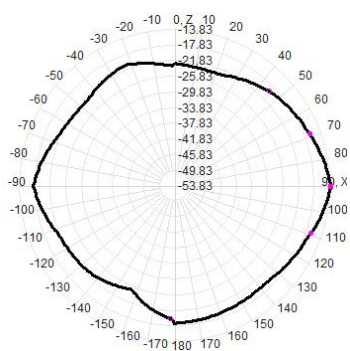
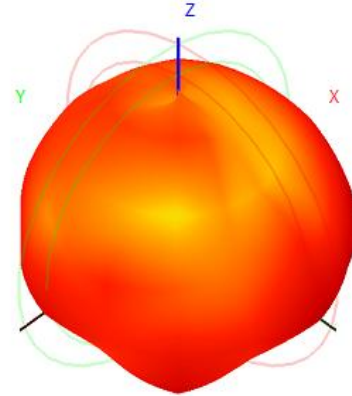
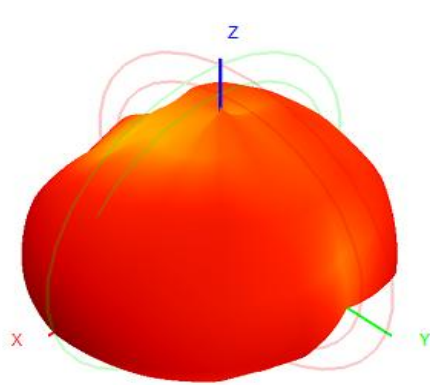


Phi 90

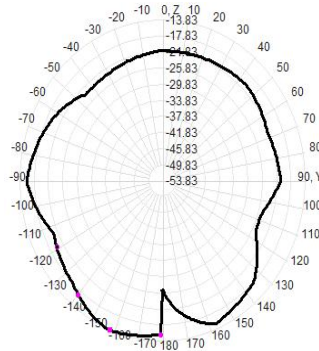


theta 90

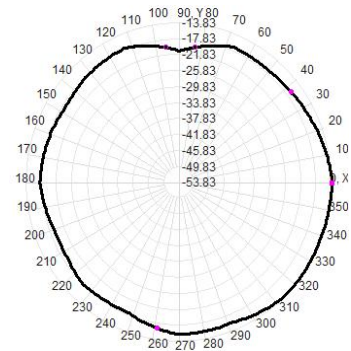
433MHz



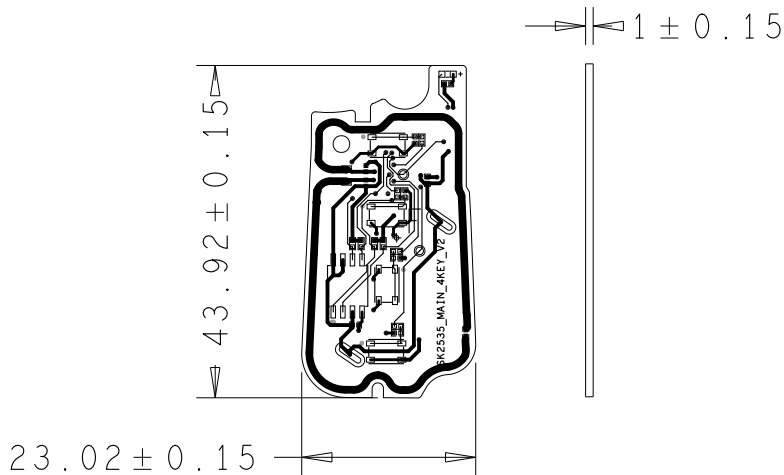
Phi 0

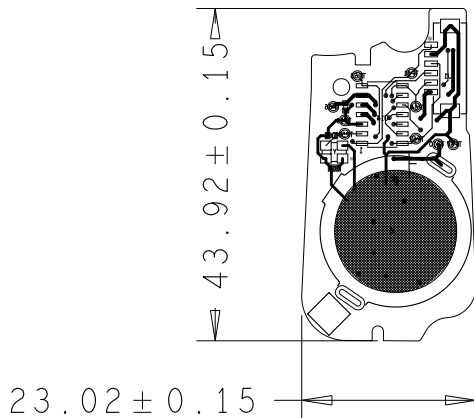


Phi 90



theta 90





$$1 \pm 0.15$$