

acknowledgement

SPECIFICATION FOR APPROVAL

Customer Name : _____

Customer material number: _____

Product Name : _____ 434MHz spring antenna _____

Top Point Material No: _____ DD200008436 _____

edition: _____ V1.0 _____

Customer signature: Date:

purchase department	engineering department	ratify

Vertex Technology: Date: 2026-8-19

engineering department	sales department	ratify
Wu Liangchao		Li Chao



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catalogue

the title page of a thread-bound book.....	1
catalogue.....	2
1. Finished product picture:.....	3
2. Product parameter.....	3
3. Antenna test environment:.....	4
4, antenna matching and environmental treatment.....	4
5. Product structure diagram.....	5
6. Environmental reliability test report 6.....	6-7
1. Environmental test.....	6
2, the salt spray test.....	7
7, antenna passive data.....	8
1. VSWR.. ..	8
2. Gain, efficiency.....	8
8. Packaging method.....	9

Revised records		
version number	Change the content	Effective year month
V1.0	The initial version	2026-8-19

specification

1.Finished product drawing (for reference only)

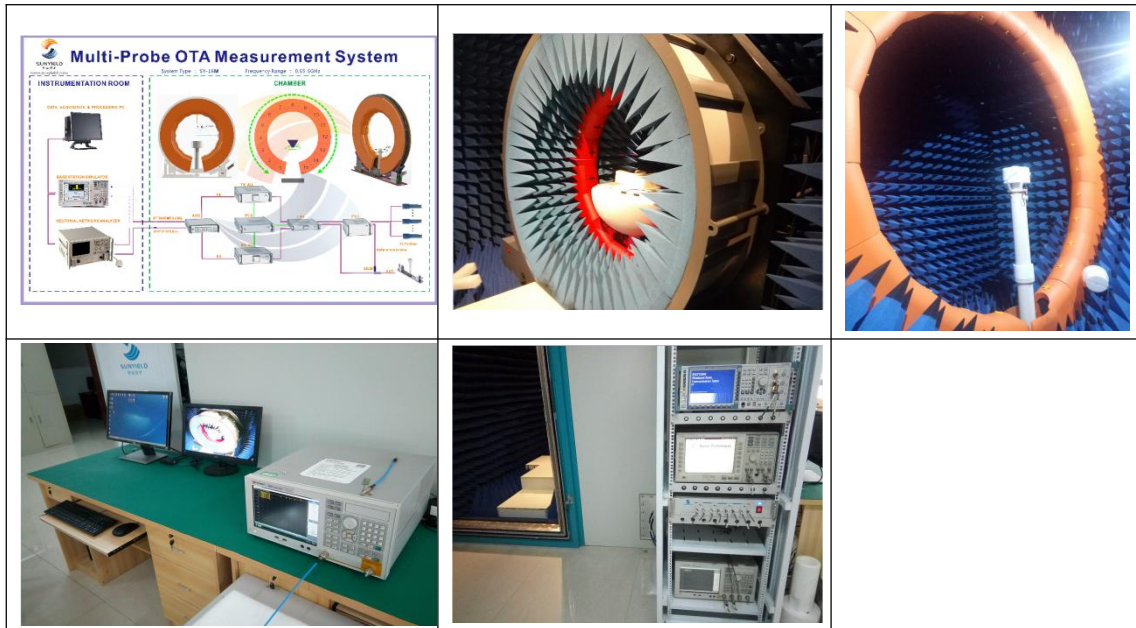


2. Product test parameters

Name 433MHz spring antenna ((DD200008436)		Model Type DDA-U434-TH1724	
ELECTRICAL SPECTFICATIONS		MECHANICAL SPECTFICATIONS	
Frenquency Range	434±5 MHz	Height	Refer to the product image
Band Width	10 MHz	Connector	Welded
Impedance	50 Ω	Chassis material: Nickel-plated stainless steel	
VSWR	≤2	Working Temperature	-40℃~+85℃
Gain	>-2dbi	Limit Temperature	-40℃~+85℃
Polarization	line		
Radiation	full direction		
Power	50W		

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Production address: Science and Technology Industrial Park, SongFourth Road, Baimiao Economic Development Zone, Yicheng City, Hubei Province
Tel.: 0710-4283888 Fax: 0710-4283138
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3. Antenna test environment



Test system: SY-16M Antenna measuring system / SY-24M antenna measuring system

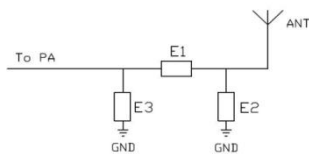
Test environment: temperature $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$, humidity $50\% \pm 15\%$

Test equipment: Agilent 5071C network analyzer, Agilent 8960 comprehensive tester, CMW500 4G comprehensive tester

4. Antenna matching and environmental treatment

No environmental treatment

Matching structure



Matching instructions	MINA ANT
E1	0 Ω
E2	NA
E3	NA

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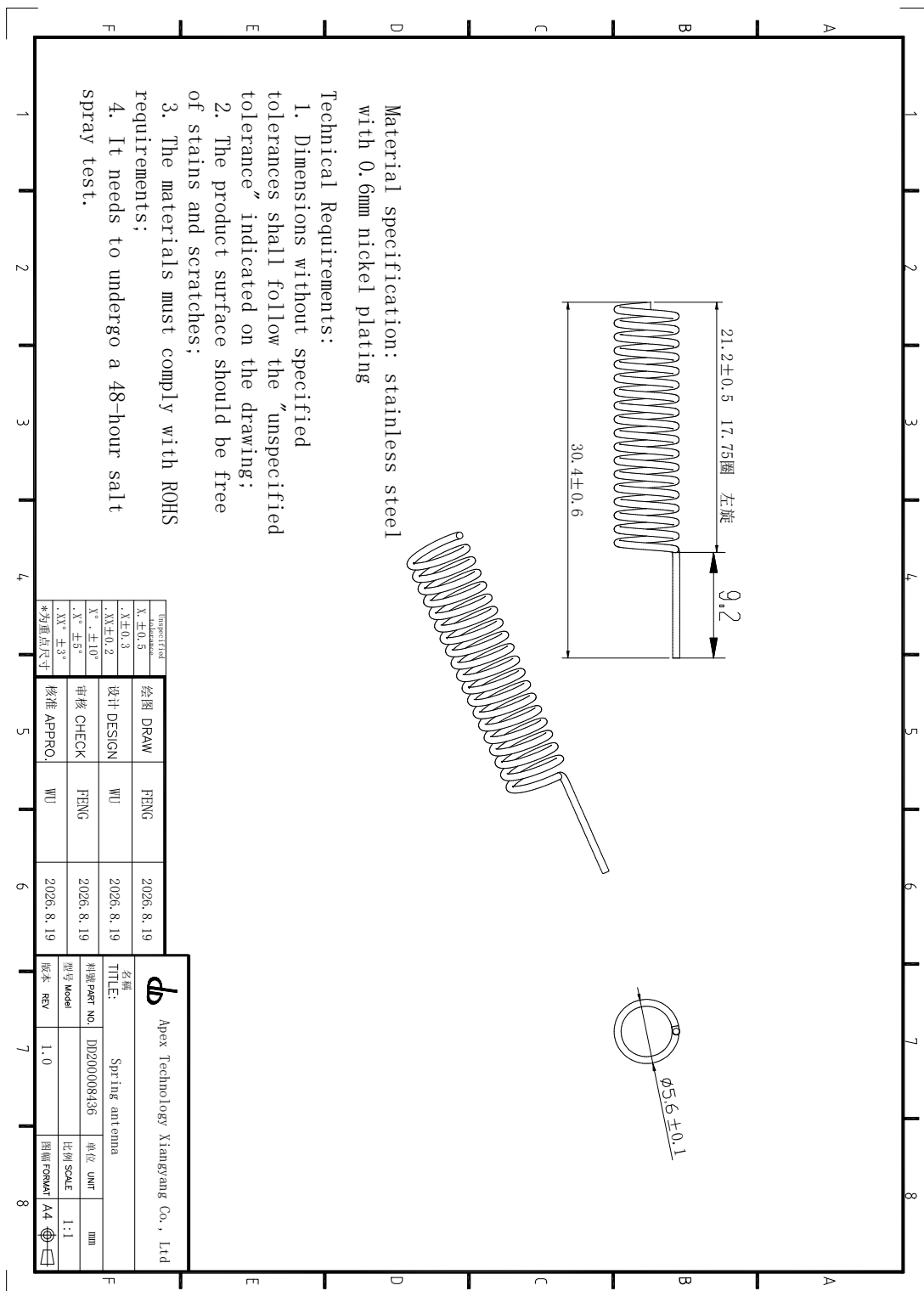
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5. Prouct structure diagram



6. Environmental reliability test report

1. Environmental test

Constant humidity test report at high and low temperature						
trial project	High temperature, low temperature, constant humidity test					
Test sample Board name	DD200008436 Antenna			Test date	2026.8.15	
Experimental / test equipment	Constant temperature and humidity test box network analyzer			Test the number	5 PCS	
checkout standard	1. The metal surface coating shall not fall off, crack and wrinkle; the non-metallic part shall not have discoloration, rupture, deformation and glue. 2.The electrical test meets the design requirements; the voltage ratio test is qualified.					
trial name	test item	ask	experimental method	Actual test data	bear fruit	
					sample	judge
high temperature trial	temperature (℃) Temperature stabilization time of test samples (h) Duration of the Test (h) recovery time (h)	+85±3 1 2 1	Following GB2423.1-89 Chapter 9 The prescribed method is conducted	+83 1.2 2.3 1	1	qualified
					2	qualified
					3	qualified
					4	qualified
					5	qualified
low temperature trial	temperature (℃) Temperature stabilization time of test samples (h) Duration of the Test (h)	-45±3 1 2 1	Following GB2423.1-89 Chapter 8	-47 1.2 2.4 1.1	1	qualified
					2	qualified
					3	qualified

	recovery time (h)		The prescribed method is conducted		4	qualified
					5	qualified
Constant humidity hot test	temperature (°C) relative humidity (%) Duration of the Test (h) recovery time (h)	+40±2 90-95 21 1	Follow GB2423.3-93 Chapter 5 The prescribed method is conducted	+42 92 22 1.1	1	qualified
					2	qualified
					3	qualified
					4	qualified
					5	qualified

2. Salt mist test

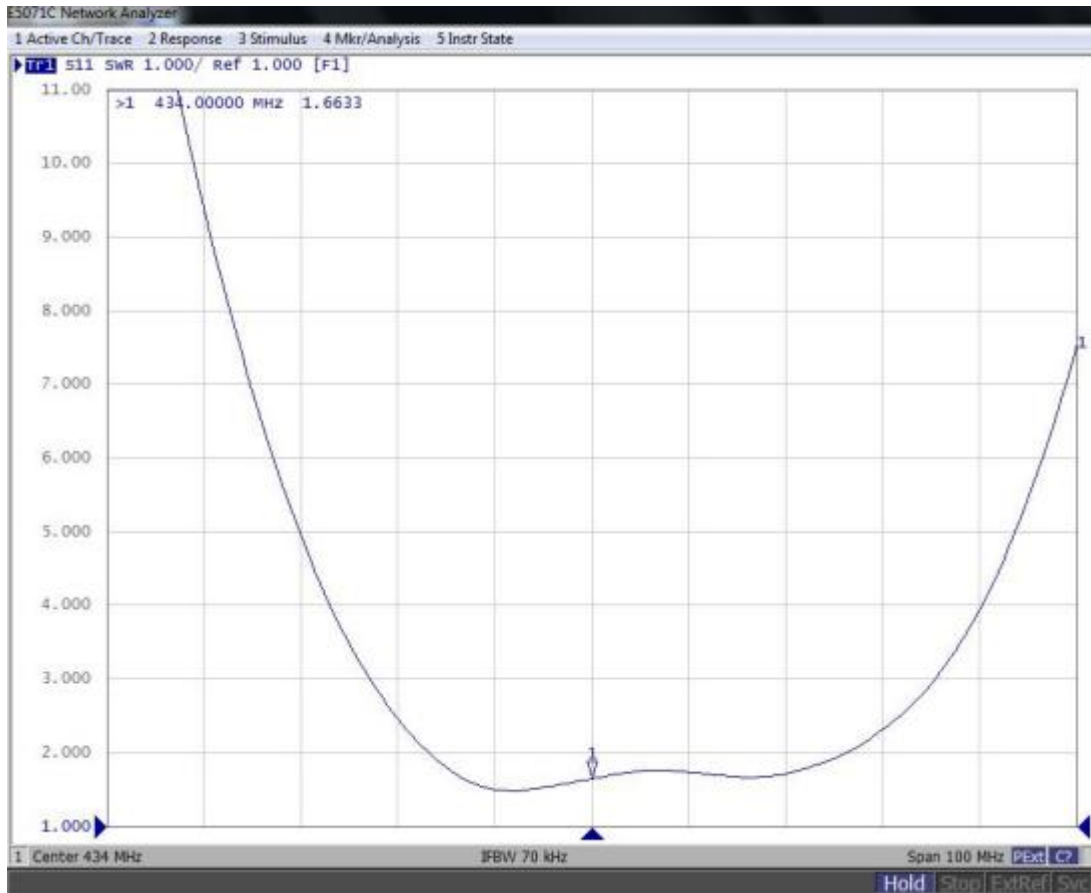
Salt mist test report			
test item	salt spray test		
Test model name	DD200008436 Antenna	Test date	2026.8.15
device name	salt spray	Test the number	5 PCS
experimental method	Put the test sample into the prepared salt solution test box and the salt spray corrosion box for continuous spray test		
Concentration of salt solution	52g/L	PH value of salt solution: 6.5-7.2	Test period: 48h

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Actual test data	55g/L	PH value of salt solution: 6.8	Test period: 48h	
test criteria	Conduct the test according to GB / T10125 Artificial Atmosphere Corrosion Test, Salt Fog Test; the results are rated according to GB / T6461-2002, rating of metal and other inorganic cover layer as specimens and specimens after corrosion test.			
end of test				
number	Corrosion resistance grade	Actual test data	Evaluation results	remarks
1	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	qualified	
2	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	qualified	
3	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	qualified	
4	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	qualified	
5	Rp/Ra=10/10vsB	Rp/Ra=10/10vsB	qualified	

7. passive test parameters

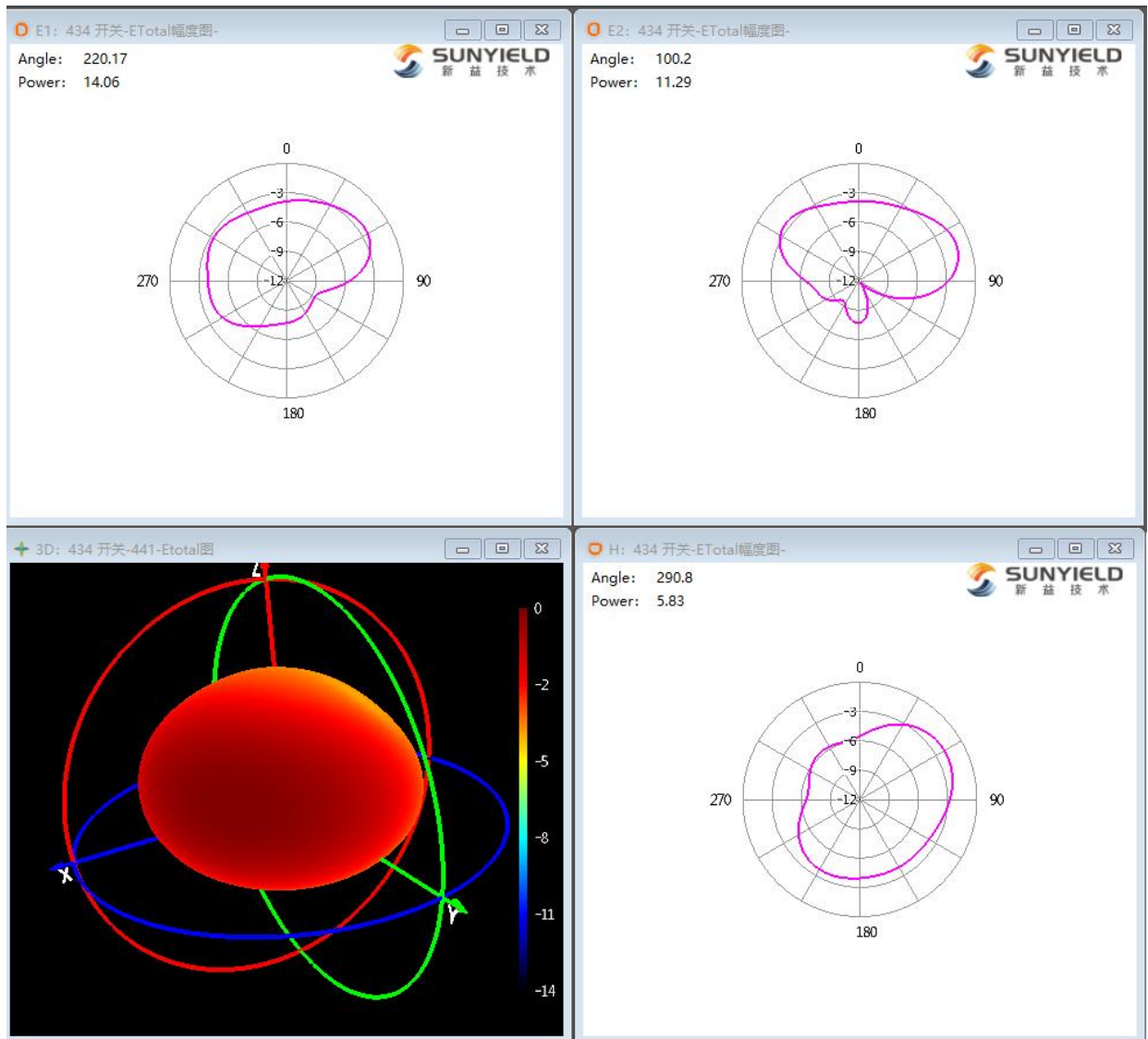
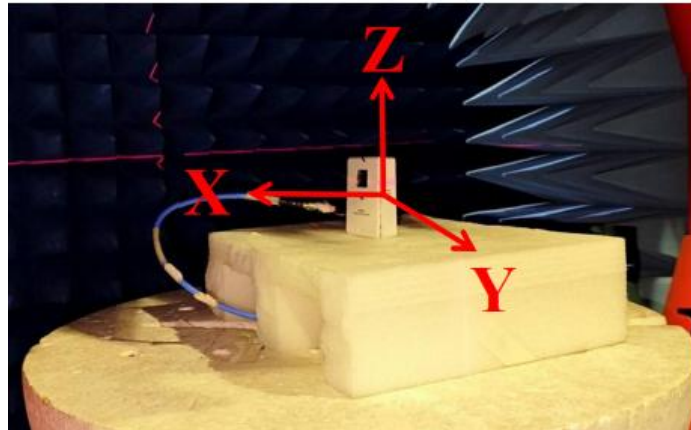
1. VSWR



2. Gain, efficiency

频率 (MHz)	增益 (dBi)	效率 (%)
429	-1.52	13.24
430	-1.29	14.22
431	-1.16	14.63
432	-0.89	14.97
433	-0.82	15.30
434	-0.64	15.71
435	-0.83	16.12
436	-0.92	16.56
437	-1.19	16.82
438	-1.24	16.94
439	-1.37	14.48

3. 2D/3D Pattern



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8. manner of packing



图1 PE袋

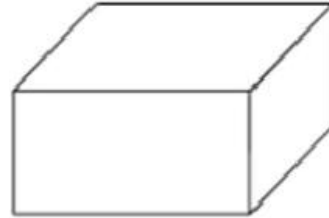


图2 纸箱

Specific according to the customer requirements and the actual packaging quantity shall prevail