



Shenzhen Kenhaitong Antenna Technology Co.,Ltd.

Antenna Sample Confirmation Form

| Vendor Name | Shenzhen kenhaitong antenna technology co, ltd | | | | |
|--------------------------------------|--|------------------|-----------|---------------|-------------------|
| Customer Name | Habson | | | | |
| Sample Name | H170A | | | | |
| Part Number | H170A-BT-ANT | | | | |
| Specification | PCB 51.75*9*1mm Black、RF0.81CABLE Black IPEX3 L=285mm/EVAø22*4mm | | | | |
| Inspection Item | Performance | Total Appearance | structure | Audit | Inspection Result |
| | OK | OK | | | OK |
| Remark | | | | | |
| QA Audit | | Engineer Audit | | Sales Confirm | |
| The following are filled by Customer | | | | | |
| Customer Evaluation | | | | | |
| Signation/ Chapter by Customer | date: | | | | |

Address: 3rd floor, west of No. 1 Building, Hezhou Zhonguo Industrial Park,
Hangcheng Street, Bao'an District, Shenzhen
TEL: 0755-85274764 FAX: 0755-85274764



Antenna Test Report

| | | | | | | |
|---|---|--------------------------|------------------------------|--|--|--|
| Test by: Shenzhen kenhaitong antenna technology co, ltd | | | | | | |
| Material | PCB+CABLE+EVA | | | | | |
| Antenna Type | MonopoleType | Polarization mode | Linear | | | |
| Application | | | | | | |
| Band | 2.4G/WIFI | VSWR | ≤ 1.3 | | | |
| Power | Max: 5W | Impedance | 50Ω | | | |
| dB_i | 2400-2500MHz | | | | | |
| | ≤ 3.78 | | | | | |
| Test Equipment | HPE5071C、Shielding Room、3D automatic turntable | | | | | |
| Antenna Description:: | | | | | | |
| 1. Grounding processing and picture description: no | | | | | | |
| 2. Need to change the motherboard to match: no | | | | | | |
| <ul style="list-style-type: none">• Test voltage: 3.6V, check the antenna contact is good before testing.• The RF cable of the integrated tester is kept in a natural state and can not be curled. | | | | | | |
| Specification: test the specified power level, all indicators must conform to the specifications. | | | | | | |



Shenzhen Kenhaitong Antenna Technology Co.,Ltd.

1、Project photos

2、Antenna Matching Circuit

3、Dark room test equipment and data

- 3.0、Test the equipment
- 3.1、S11 parameter
- 3.2、Antenna passive parameter

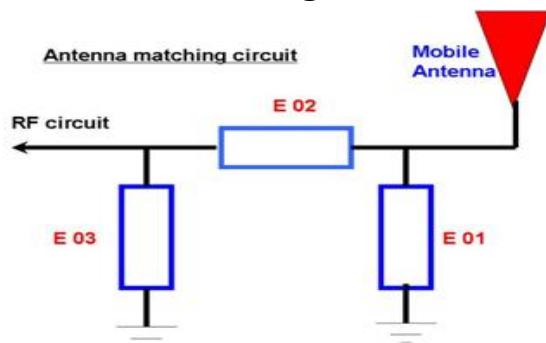
4、Environmental handling and assembly instructions

5、Structural drawings

6、Sample size inspection report

7、Manner of packing

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1、 Project photos**2、 Antenna Matching Circuit****Modify**

| E01 | E02 | E03 |
|-----|-----|-----|
| No | No | No |

Note: Match without modification.

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3、Dark room test equipment and data

3.0、Test the equipment

Test system: shield the dark room

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

Test equipment: Use the network analyzer AgilentE5071C when testing the passive data When testing active data, use the comprehensive meter CMW500



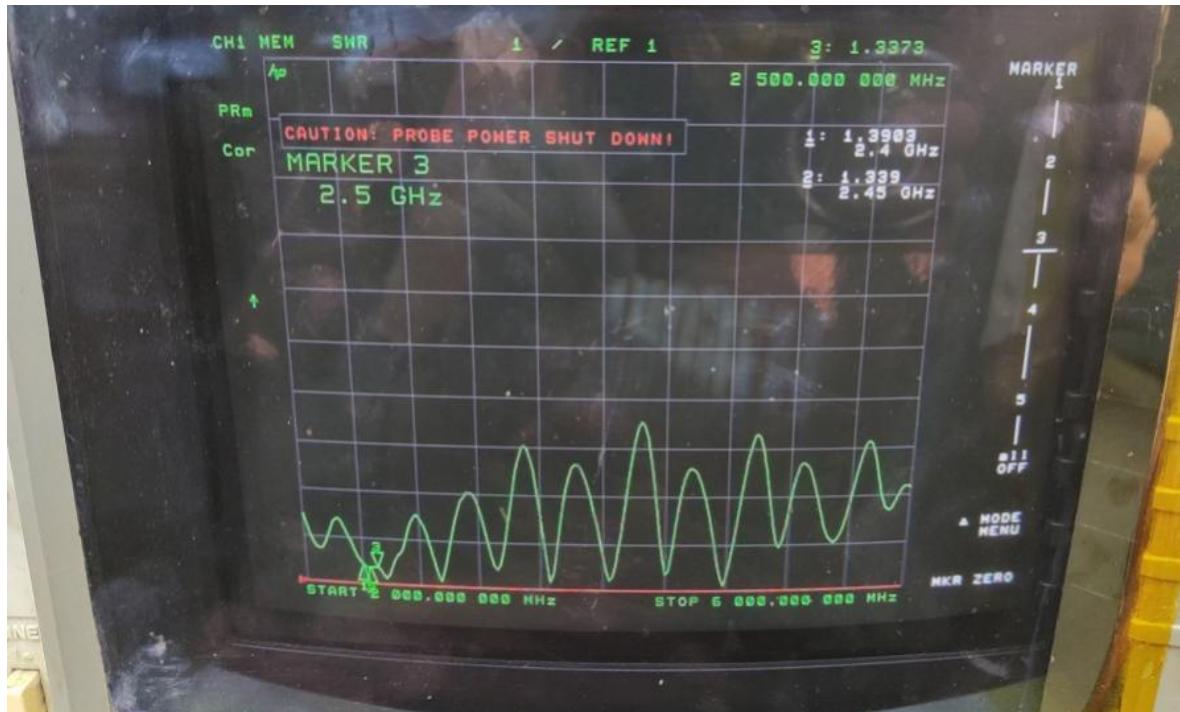
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3.1、S11 parameter

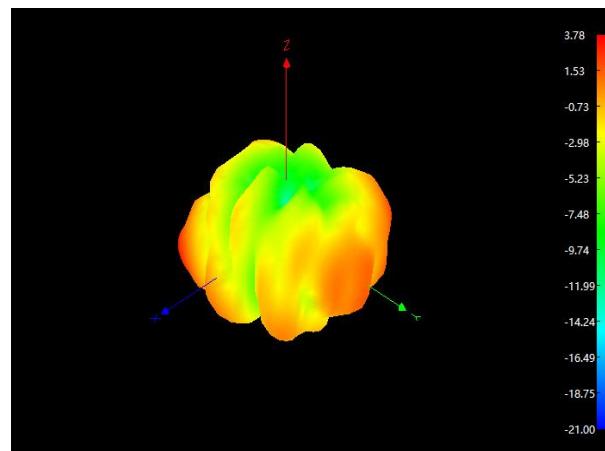
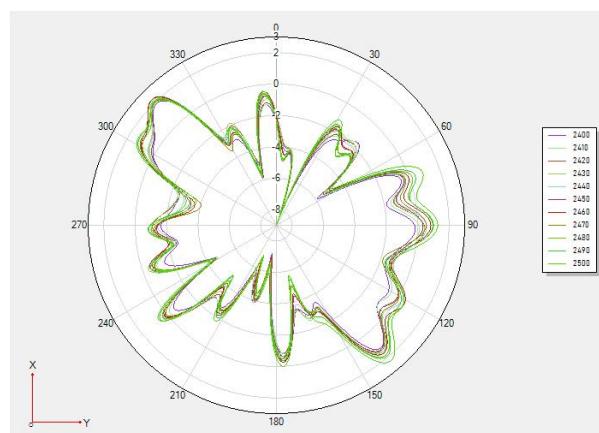


| | | | | | | |
|--------------------|------|------|------|--|--|--|
| Frequency (MHz) | 2400 | 2450 | 2500 | | | |
| VSWR | 1.3 | 1.3 | 1.3 | | | |

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3.2、Antenna passive parameter

| Frequency / MHz | Efficiency / % | Gain/ dB |
|-----------------|----------------|----------|
| 2400 | 50.23 | 3.28 |
| 2410 | 49.2 | 3.56 |
| 2420 | 52.84 | 3.58 |
| 2430 | 50.82 | 3.72 |
| 2440 | 51.05 | 3.4 |
| 2450 | 49.89 | 3.71 |
| 2460 | 51.17 | 3.6 |
| 2470 | 48.08 | 3.66 |
| 2480 | 49.32 | 3.49 |
| 2490 | 49.89 | 3.78 |
| 2500 | 51.17 | 3.72 |



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4、Environmental handling and assembly instructions

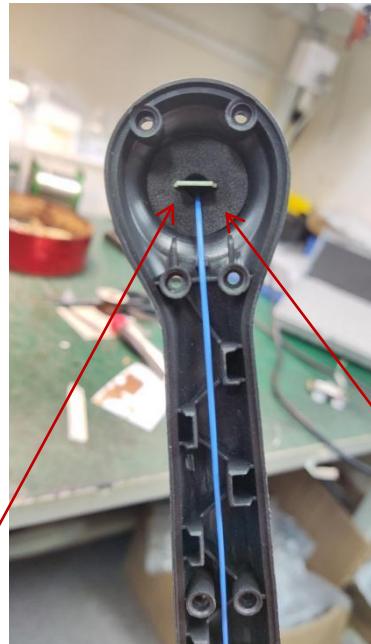
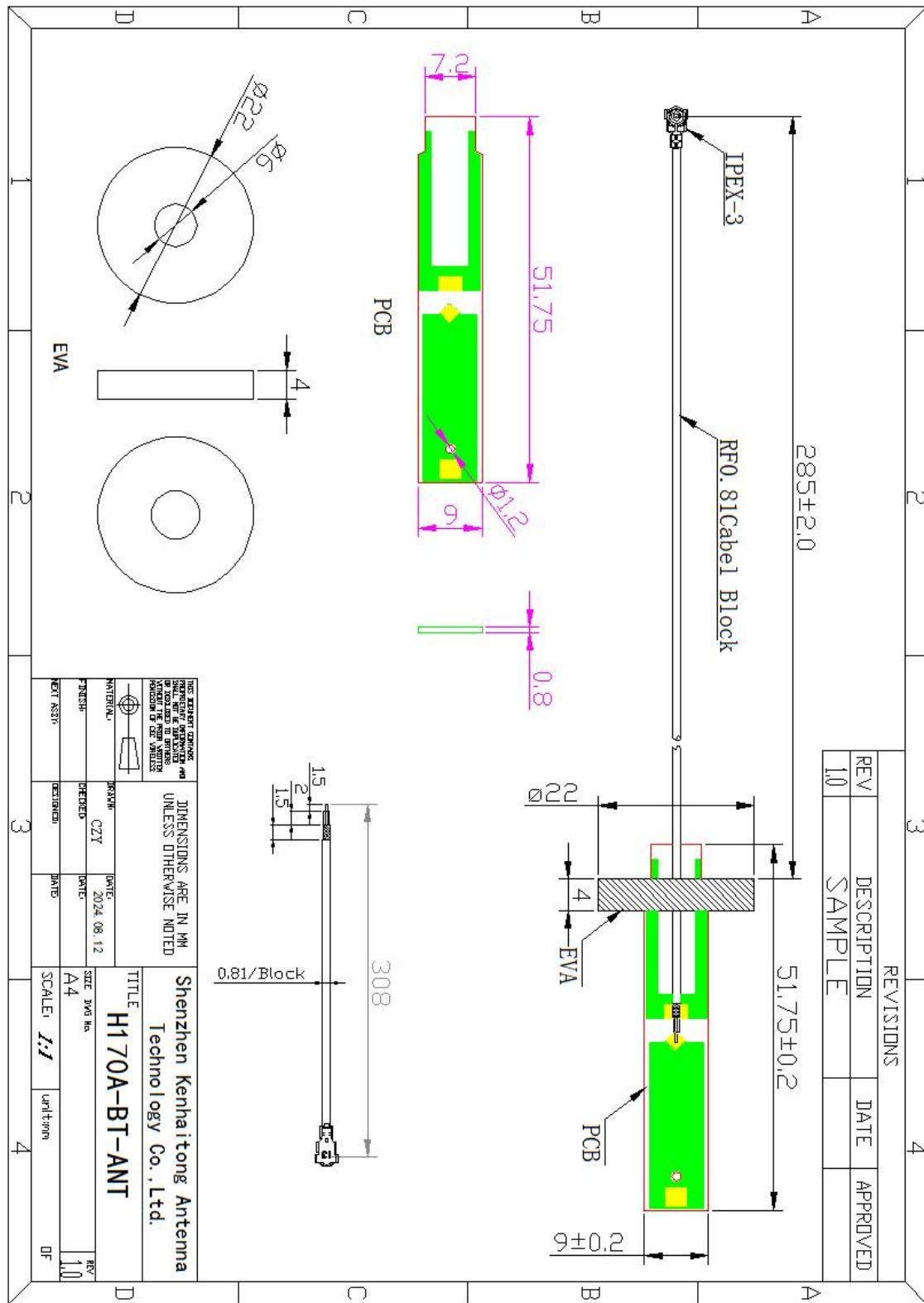


Figure the assembly
antenna

BT ANTENNA

5、Structural drawings



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6、Sample size inspection report

样品尺寸检验报告

Model: H170A-BT-ANT

Date: 2024-08-14

| Test Items | Standard | Sample inspection status (value) | | | | | Determine | Remarks |
|------------------------------|----------|----------------------------------|--------|-------|--------|--------|-----------|---------|
| | | 1 | 2 | 3 | 4 | 5 | | |
| Antenna structure size | A1 | 51.75±0.2mm | 51.85 | 51.88 | 51.79 | 51.87 | 51.86 | pass |
| | A2 | 9.0±0.2mm | 9.08 | 9.09 | 9.08 | 9.07 | 9.08 | pass |
| | A3 | 22±1.0mm | 21.86 | 22.06 | 22.01 | 22.07 | 2.98 | pass |
| | A4 | 4±0.5mm | 4.06 | 4.15 | 4.09 | 4.05 | 4.07 | pass |
| | A5 | 285±2.0mm | 284.85 | 285 | 285.52 | 285.22 | 285.13 | pass |
| | A6 | | | | | | | |
| | A7 | | | | | | | |
| | A8 | | | | | | | |
| | A9 | | | | | | | |
| | A10 | | | | | | | |
| | A11 | | | | | | | |
| | A12 | | | | | | | |

核准: CZY

审核: CXM

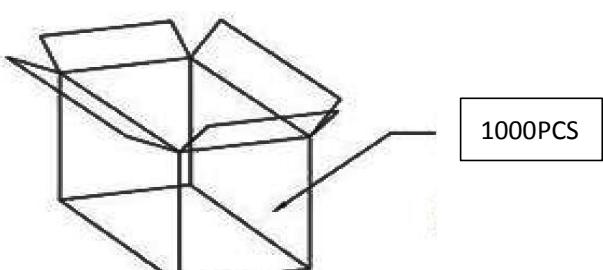
测试: JXB

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7、Manner of packing

| Packaging | | | | |
|-----------------------|---|-----------|--------------|------------|
| Customer Name: Habson | Name: H170A-BT-ANT | | Code: | TEST: A |
| Packaging details | Code | name | size | quantities |
| | PE | PE bag | 230*330*0.12 | 1/100 |
| | SYC-BZ-01 | Paper box | 270*250*130 | 1/10000 |
| | | | | |
| | | | | |
| job step | 1. Prepare the required packaging materials and place them in favorable operation positions. 2. Carcarton / PE bags, packaging, 100PCS / bag, 100 bags, 10,000 P C S per box. 3. Put 100 bags in each box, totaling 10,000 P C S. After filling the box, seal the box with transparent tape. Graphic picture of packaging products | | | |
| Illustration |  | | | |
| remark | | | | |
| compile | approval | | MADE | DATE |
| JSB | DS | | LSY | 2024/08/14 |

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