

# 津宏电子（上海）有限公司

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Nessie Industrial Corporation

## 天线规格书

Antenna specifications

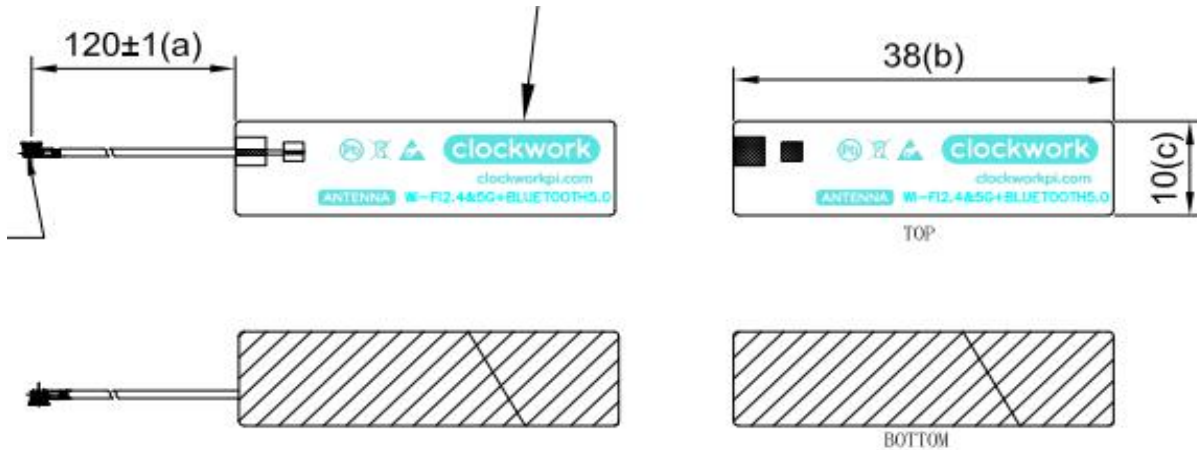
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# 目录

## Table of contents

|   |     |
|---|-----|
| 产品图片,尺寸 (Product pictures, size) .....        | 1   |
| 产品参数 (Product Parameters) .....               | 1   |
| 增益, 效率, 方向图 (gain, efficiency, pattern) ..... | 2-7 |
| 测试连接系统(Test connection system).....           | 8   |

一.产品图片,尺寸 (Product pictures, size)



二、产品参数 (Product Parameters)

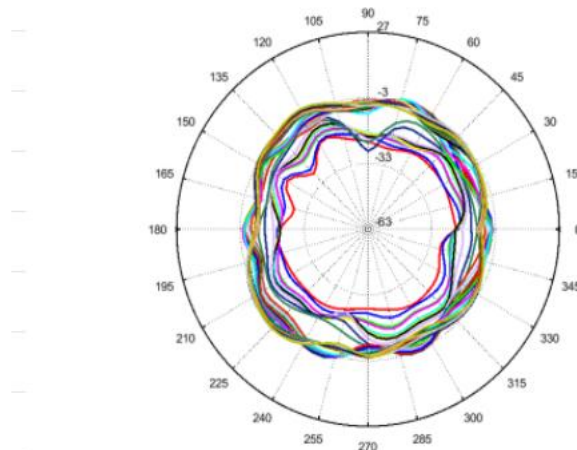
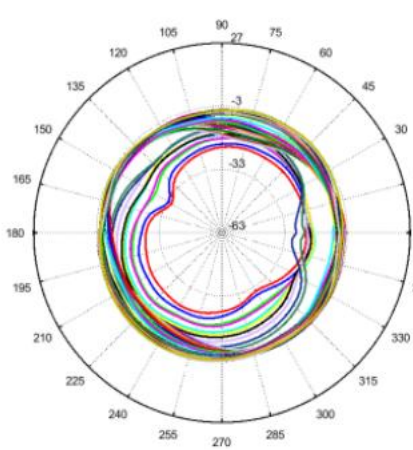
| 产品测试参数 (Product test parameters)  |   |                            |                      |
|-----------------------------------|---|----------------------------|----------------------|
| 产品名称(Name)                        | 内置天线 (Internal antenna)                         | 产品型号(Model Type)           | TC2023E001           |
| 电性能指标 (Electrical Specifications) |   |                            |                      |
| 频率范围 (Frequency Range)            | 2400-2480MHz                                    | 极化方式 (Polarization)        | 垂直 (vertical)        |
| 输入阻抗(Impedance)                   | 50 Ω  | 辐射方向 (Radiation direction) | 全向 (Omnidirectional) |
| 驻波比 (VSWR)                        |   | 功率容量(Power)                | 50W                  |
| 增益(Gain)                          |   | 带宽 (bandwidth)             | 136/980MHz           |
| 机械指标 (Mechanical Specifications)  |   |                            |                      |
| 尺寸 (Dimensions)                   | 38*10mm   | 天线颜色(Radome Color)         | 黑色 (black)           |
| 连接器型号 (Connector)                 | 1代端子1.13线材<br>1st generation terminal 1.13 wire | 引线长度(Cable Length)         | 120mm                |
| 外壳材料 Radome Material              | IPX:20278-112R-13                               | NA                         | NA                   |
| 工作温度 (Working Temperature)        | -10°C-+60°C                                     | 存放温度 (Limit Temperature)   | -10°C-+30°C          |

三、增益(Gain),效率(efficiency),  
VSWR,Impedance,Return Loss

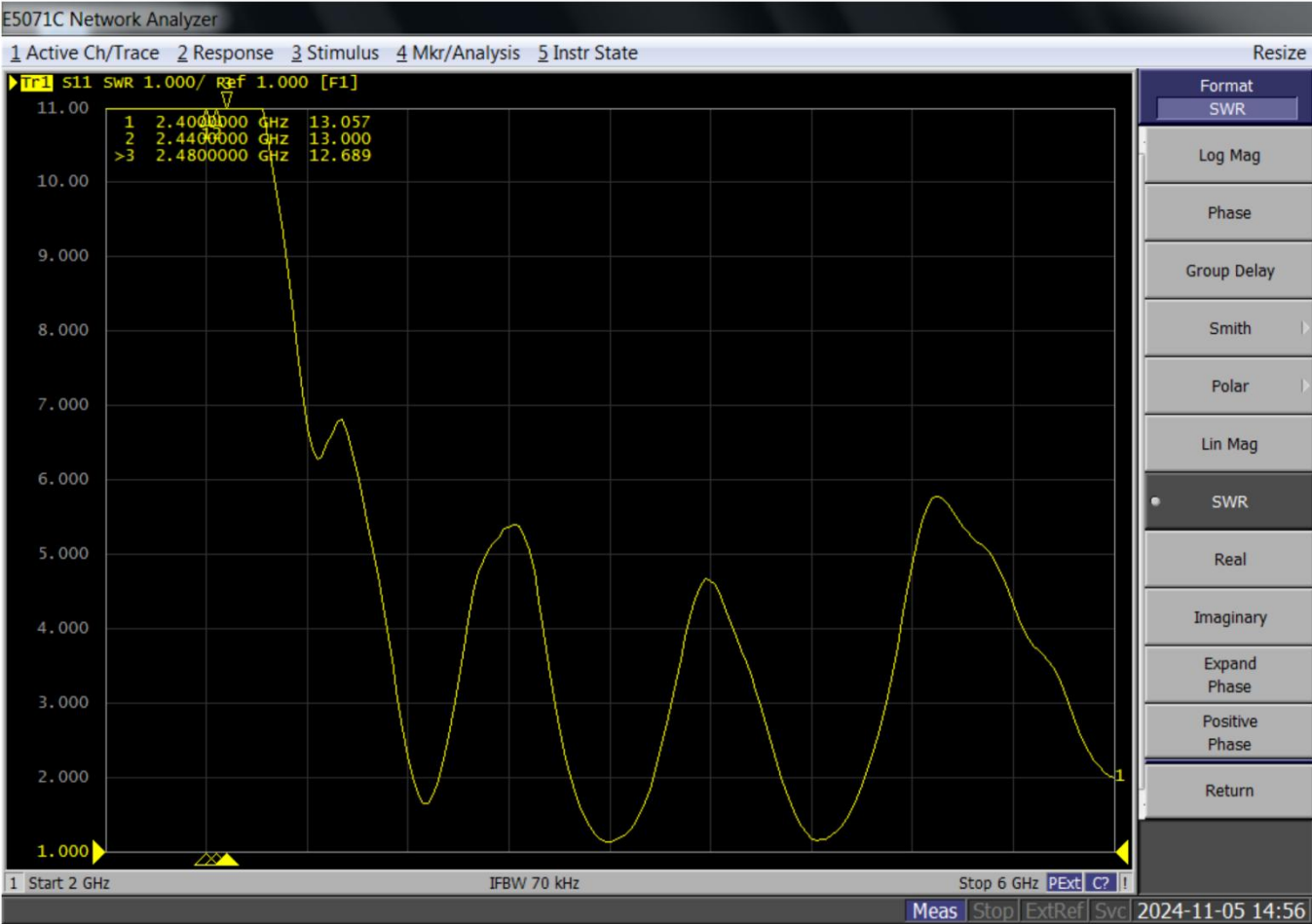
1. 增益,效率(gain,efficiency)

| Frequency (MHz) | Efficiency(%) | Gain(dB) |
|-----------------|---------------|----------|
| 2400            | 2.2374        | -9.4609  |
| 2412            | 2.3241        | -9.2559  |
| 2437            | 2.3995        | -9.271   |
| 2442            | 2.5514        | -8.9709  |
| 2450            | 2.6407        | -8.8209  |
| 2462            | 2.8073        | -8.6209  |
| 2484            | 3.1353        | -7.9833  |
| 2500            | 3.4462        | -7.5344  |

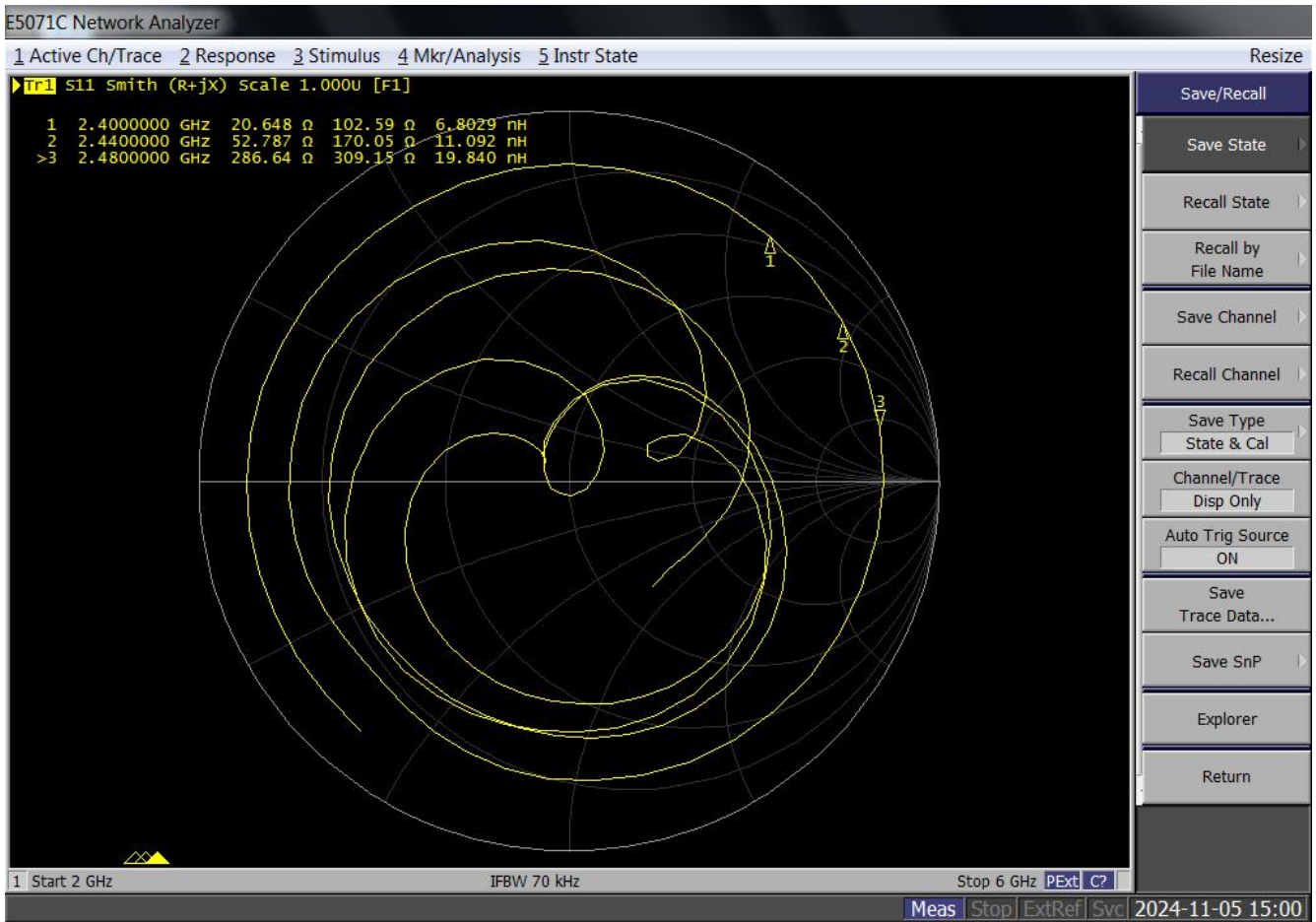
2. 方向图 (direction map)



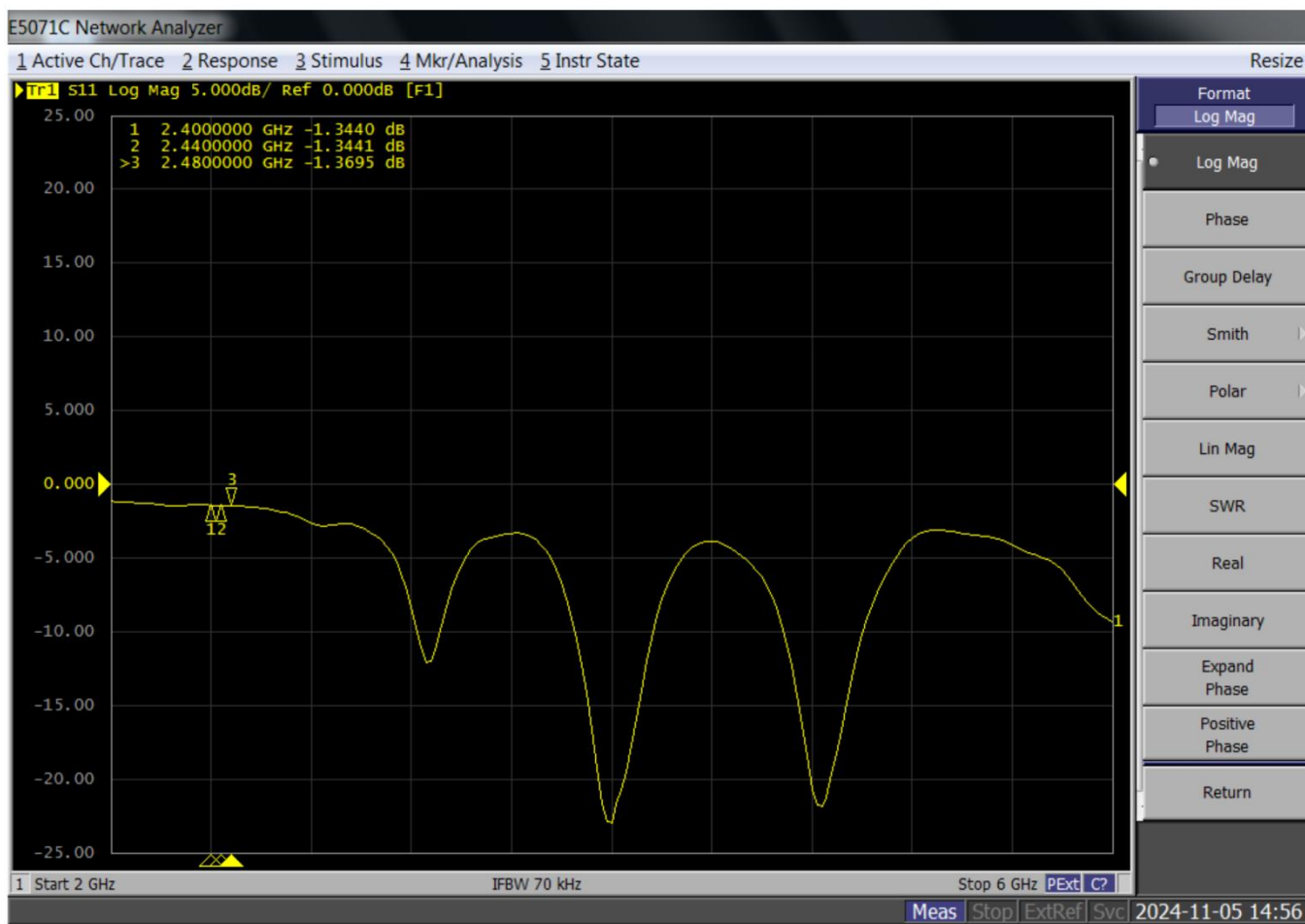
### 3.VSWR



## 4. Impedance

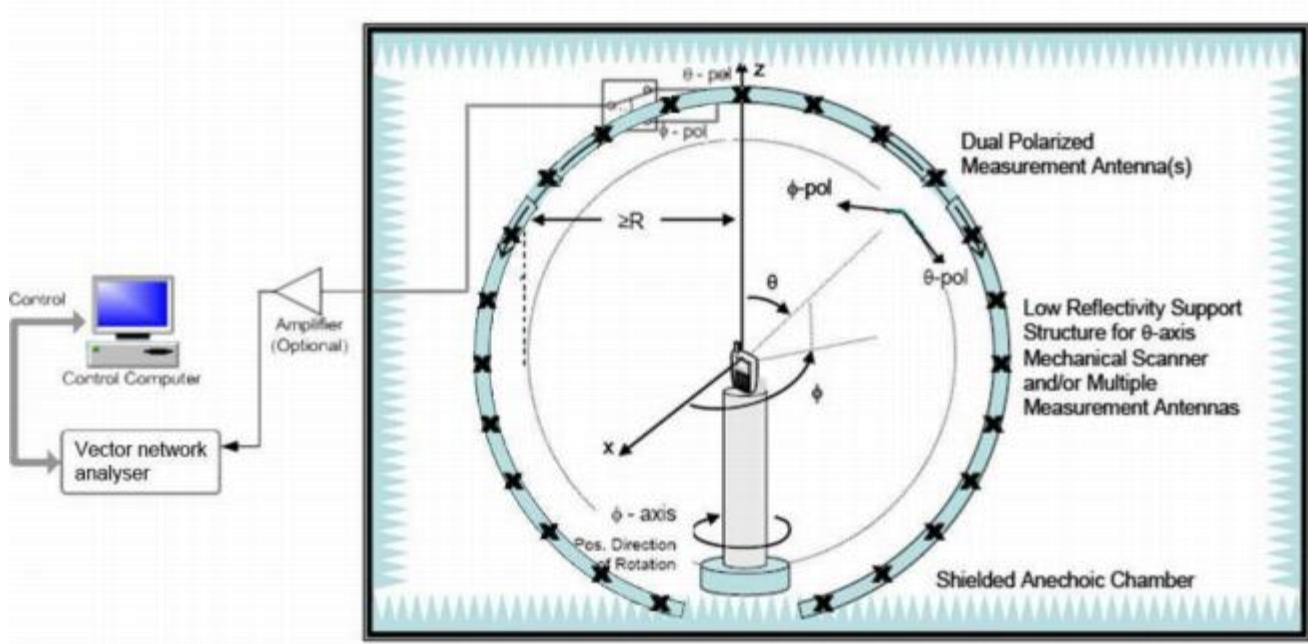


## 5.Return Loss



| 频率<br>Frequency(MHZ) | 回波损耗<br>Return loss(dB) | 电压驻波比<br>Voltage standing wave ratio) | 阻抗 (Impedance) $\Omega$ |
|----------------------|-------------------------|---------------------------------------|-------------------------|
| 2400                 | -1.3440                 | 13.057                                | 20.648                  |
| 2440                 | -1.3441                 | 13.000                                | 52.787                  |
| 2480                 | -1.3695                 | 12.689                                | 286.64                  |

## 测试连接系统(Test connection system)



测试机构 (testing agency) :