

3D Antenna Measurement Report

REPORT NO.:
PLATFORM MANUFACTURER: Kunshan Innowave Communication Technology Co., Ltd.
PLATFORM NAME: BT
ANTENNA TYPE: PCB Antenna
TESTED DATE: 2022.11.25
ISSUED: 2022.11.28

APPLICANT: Kunshan Innowave Communication Technology Co., Ltd.

ADDRESS : 1689 Zizhu Road, Yushan Town, Kunshan City, Jiangsu Province

ISSUED BY :

ADDRESS :

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RELEASE CONTROL RECORD

| REPORT NO. | REASON FOR CHANGE | DATE ISSUED |
|------------|-------------------|-------------|
| | | |
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GENERAL INFORMATION

| | |
|----------------------|---|
| APPLICANT: | |
| MANUFACTURER: | Kunshan Innowave Communication Technology Co., Ltd. |
| MODEL NO.: | B02N |

Test Standard:

PREPARED BY : 董友强/工程师 _____ , **DATE :** 2022.11.28_

APPROVED BY : 严家鹏/经理 _____ , **DATE :** 2022.11.28_

1. Test EquipmentList

| TYPE OF EQUIPMENT | MODEL NUMBER | SERIAL NUMBER | CALIBRATION DUE DATE |
|-------------------|--------------|---------------|----------------------|
| etwork Analyzer | E5071C | WY46632208 | 2023.09.01 |
| OTA | GTS-1800 | N/A | 2023.09.10 |
| | | | |
| | | | |

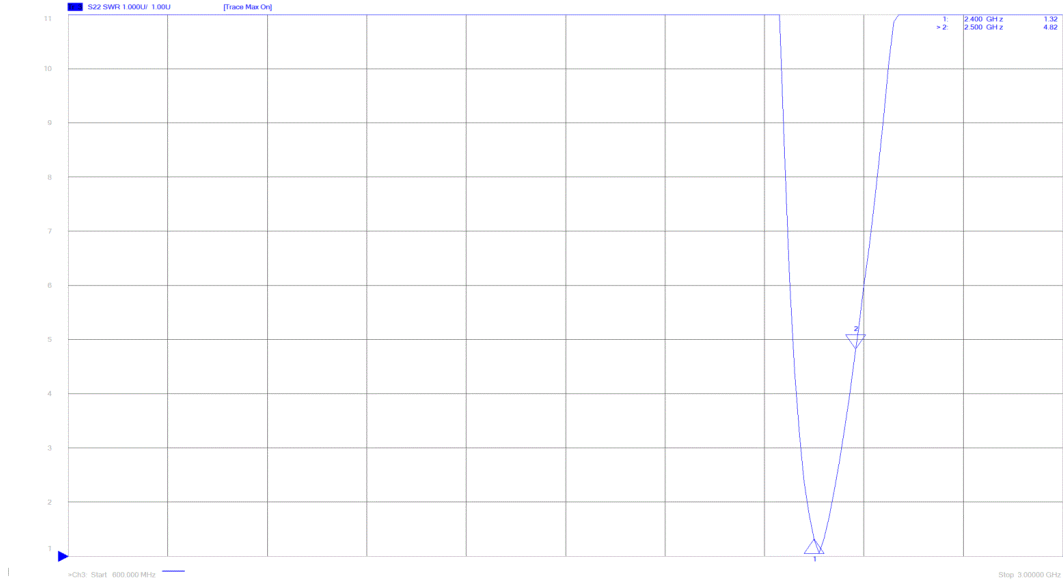
2. MeasurementUncertainty

Expanded Uncertainty for Measurement (k=2 or 95% Confidence Level) at Passive antenna test over frequency range 690 – 2200MHz is +/- 1.52 dB.

3. Characteristics of antenna

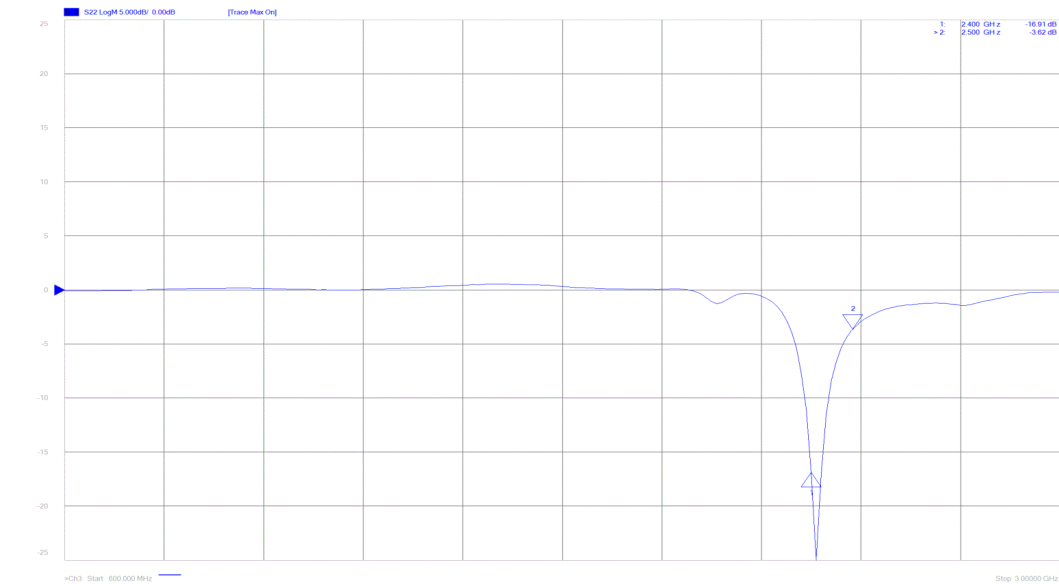
3.1. VSWR

蓝牙天线:



3.2. S11

蓝牙天线:

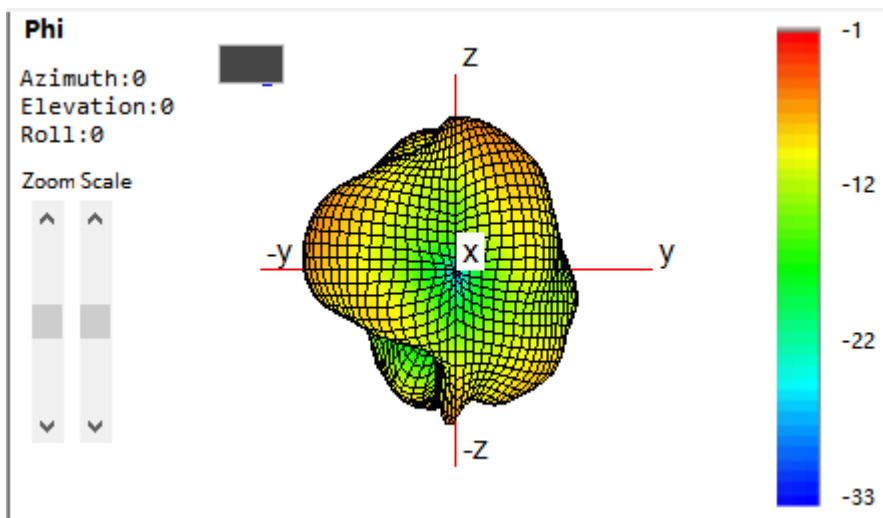
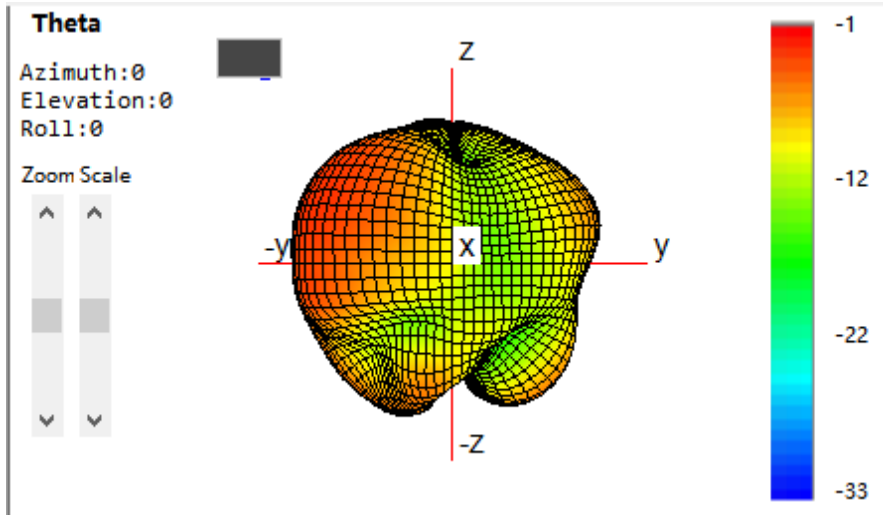


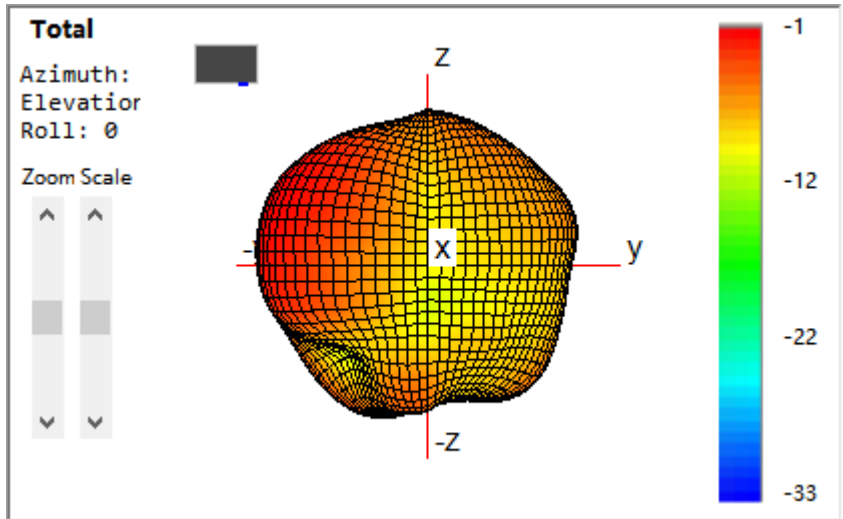
3.3. 3D Antenna Gain-Free Space

| Freq(MHz) | Effi (dB) | Gain(dBi) |
|-----------|-----------|-----------|
| 2400 | -5.31 | -5.1 |
| 2410 | -5.19 | -5.2 |
| 2420 | -5.42 | -5.1 |
| 2430 | -5.84 | -5.4 |
| 2440 | -6.03 | -5.1 |
| 2450 | -6 | -5 |
| 2460 | -6.43 | -5.2 |
| 2470 | -6.81 | -5 |
| 2480 | -6.66 | -5.3 |
| 2490 | -6.87 | -5.2 |
| 2500 | -7.16 | -5.2 |

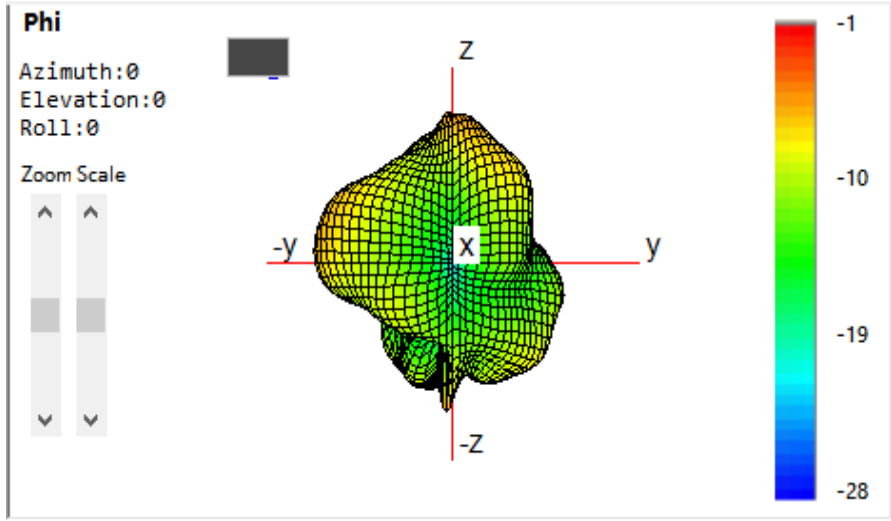
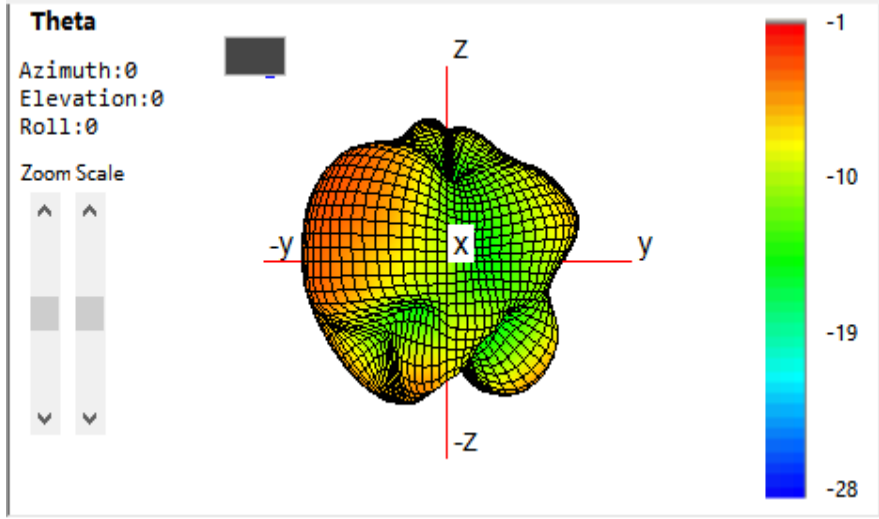
3.4. Antenna Pattern

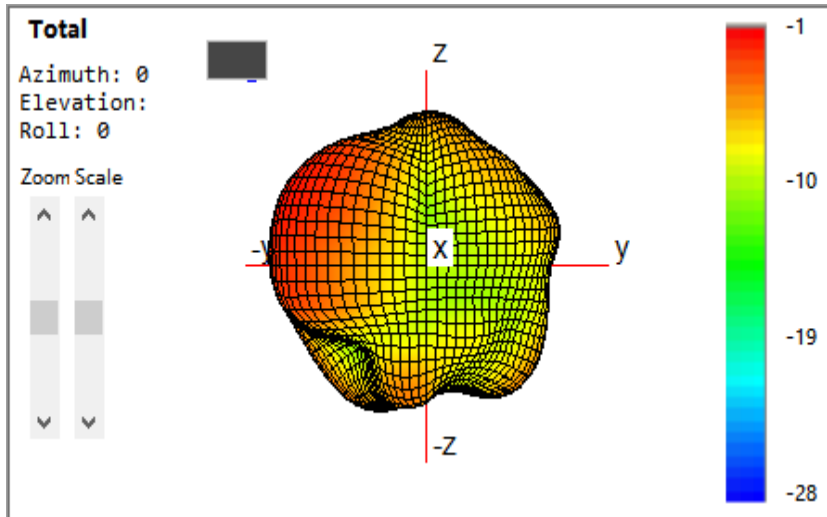
2400MHz





2440MHz





2480MHz

