ART SIGNAL Company _ Antenna Total Solution ( ART-S 2023)

# ART SIGNAL

## ANTENNA TOTAL SOLUTION

Ver.1 2020

# 2.4G Antenna Test Data

## Solu-M 7.5 inch ANT #1  2.4G Antenna Test Data

- Network & 3D gain & 3D Radiation Pattern

## Solu-M 11.6 inch ANT #2  2.4G Antenna Test Data

- Network & 3D gain & 3D Radiation Pattern

2023-08-04

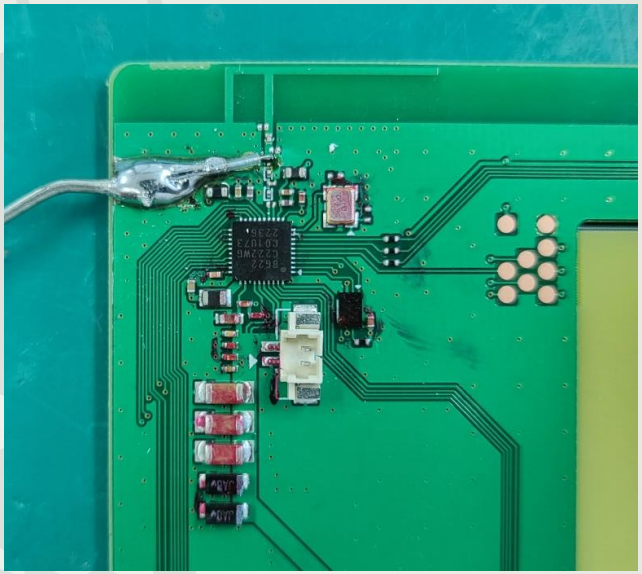
Test by : Dong-Kyu Hwang

ART SIGNAL CO., LTD.

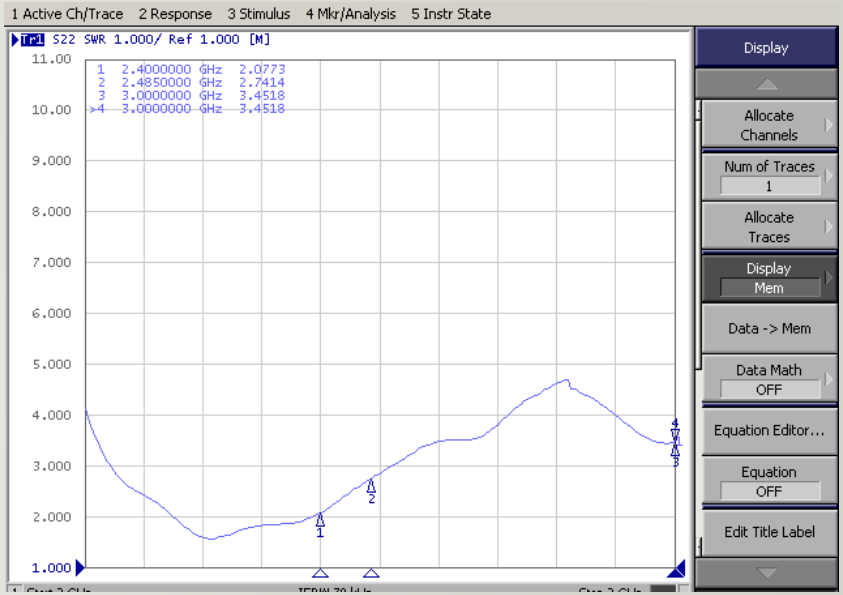
A-1008, Woolim Lion's Vally 2nd, 14, Sagimakgol-ro 45beon-gil,
Jungwon-gu, Seongnam-si, Gyeonggi-do, KOREA

# Solu-M 11.6inch ANT #2 TEST DATA

Picture



VSWR

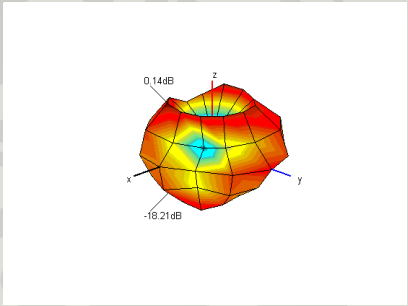
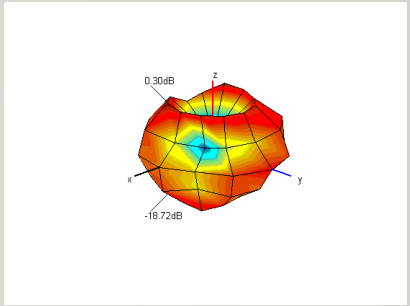
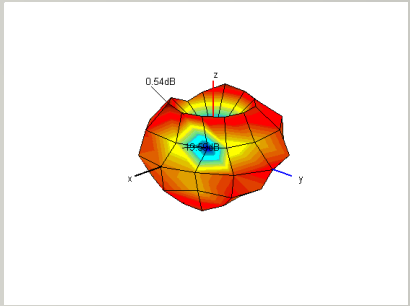
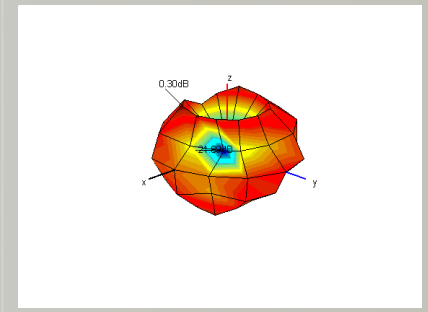
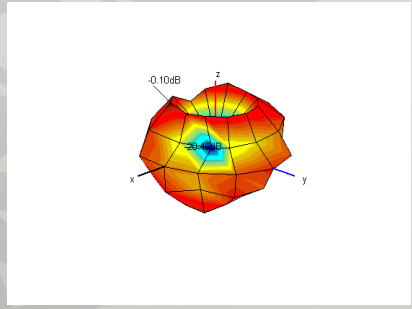



3D gain

| | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| **Frequency [MHz]** | 2400 | 2420 | 2440 | 2460 | 2485 |
| **Efficiency [dB]** | **-4.86** | **-4.69** | **-4.36** | **-4.64** | **-5.00** |
| **Efficiency [%]** | **32.7** | **33.9** | **36.7** | **34.4** | **31.6** |
| **Peak Gain [dB]** | 0.14 | 0.30 | 0.54 | 0.30 | -0.10 |
| **Directivity [dB]** | 4.99 | 4.99 | 4.90 | 4.94 | 4.89 |
| **Minimum Gain [dB]** | -18.21 | -18.72 | -19.59 | -21.89 | -20.46 |

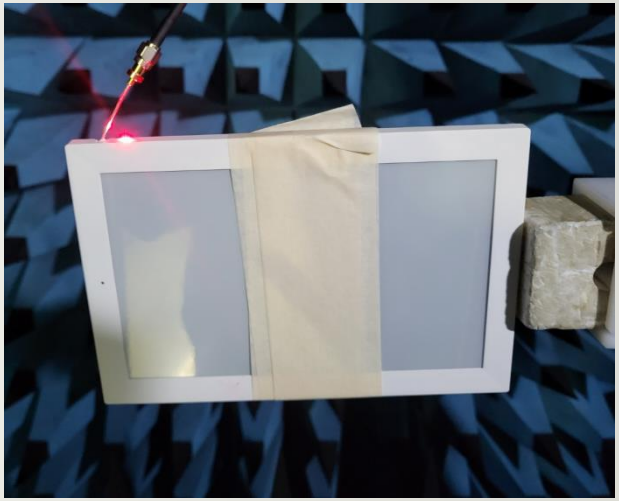
# 2.4G ANT DATA – 3D Radiation Pattern

3D Radiation Pattern

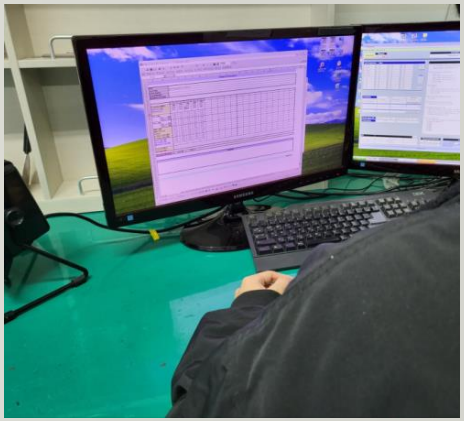
| 2400 | 2420 | 2440 | 2460 |
|---|---|---|---|
|   |   |   |   |
| **2485** | | | |
|   | | | |

# Measurement Procedure

Network Analyzer을
이용하여 VSWR 측정



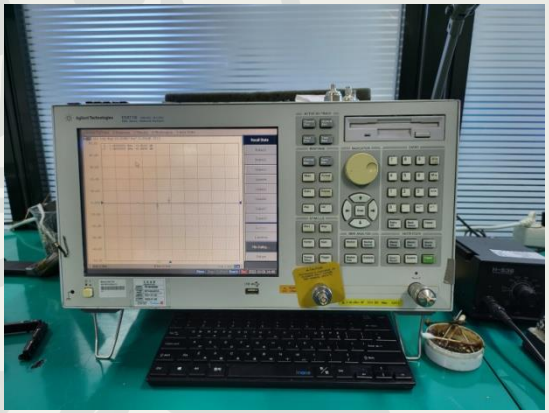
3D Chamber에 Set 거치



Program을 이용하여
Gain 측정

# Measurement Equipment

## Network Analyzer



E5071B (Agilent)

8753ES (Agilent)

CTIA 3D OTA Chamber(A+Tech)