

ART SIGNAL

ANTENNA TOTAL SOLUTION



| 2.4G Antenna Test Data

Solu-M Newton Pro 11.6 inch tag #1 ANT Test Data

- Network & 3D gain & 3D Radiation Pattern

- 16CMOLK & 3D 891H & 3D K9D19C10U 1.9C6LU

Solu-M Newton Pro 11.6 inch tag #2 ANT Test Data

- Network & 3D gain & 3D Radiation Pattern

- 16CMOLK & 3D 891H & 3D K9D19C10U 1.9C6LU

2024-02-22

Test by : Dong-Kyu Hwang

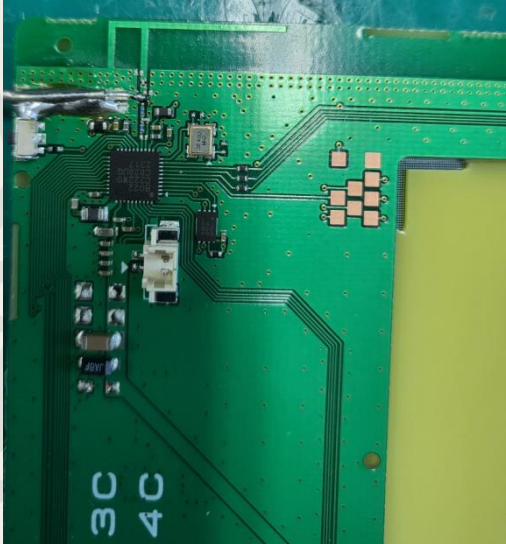
ART SIGNAL CO., LTD.

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

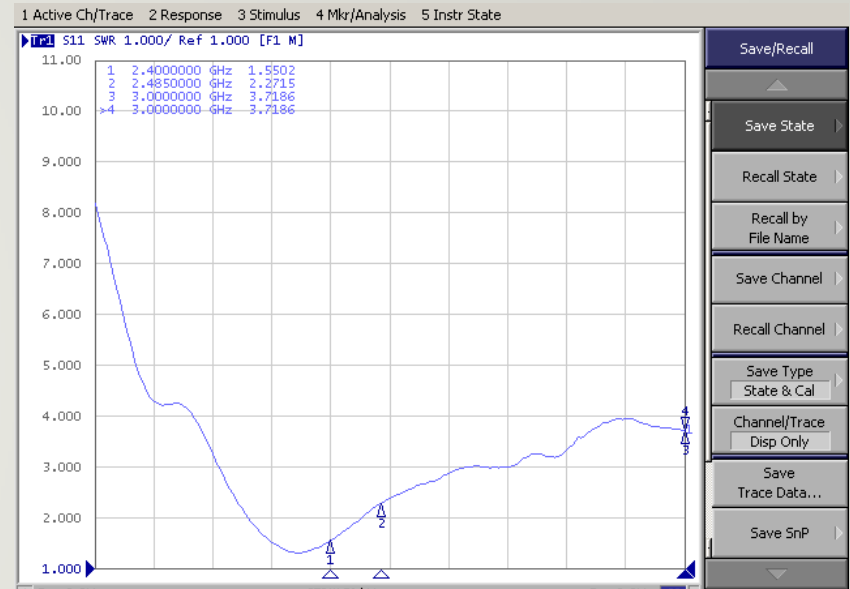
A N T E N N A T O T A L S O L U T I O N

Solu-M Newton Pro 11.6 inch tag #1 TEST DATA

Picture



VSWR

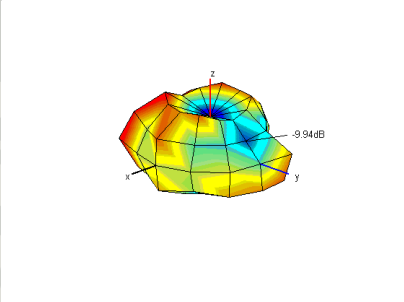
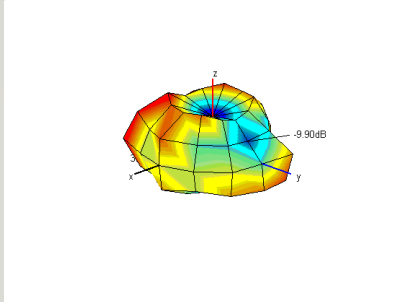
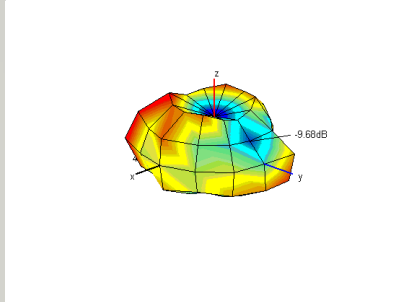
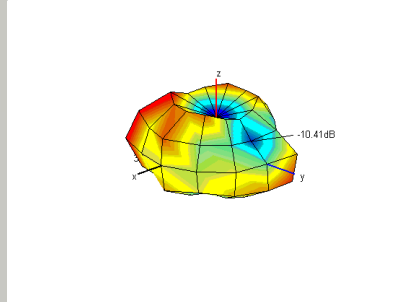
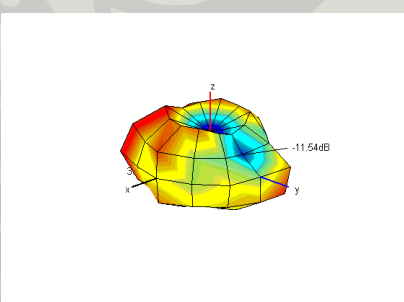


3D gain

	1	2	3	4	5
Frequency [MHz]	2400	2420	2440	2460	2485
Efficiency [dB]	-1.93	-1.69	-1.32	-1.53	-2.11
Efficiency [%]	64.1	67.8	73.8	70.2	61.6
Peak Gain [dB]	3.35	3.56	4.08	3.97	3.19
Directivity [dB]	5.29	5.25	5.40	5.50	5.30
Minimum Gain [dB]	-9.94	-9.90	-9.68	-10.41	-11.54

2.4G ANT DATA – 3D Radiation Pattern

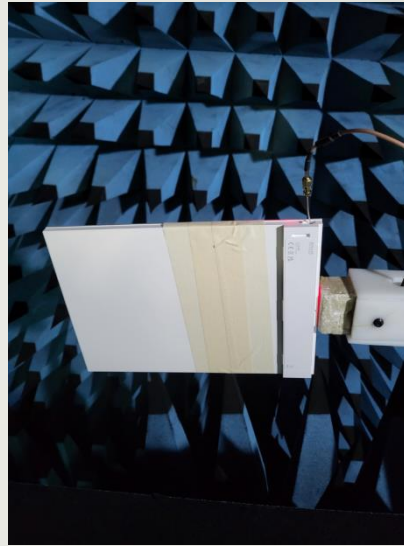
3D Radiation Pattern

2400	2420	2440	2460
 <p>3D radiation pattern for 2400 MHz. The plot shows a main lobe with a peak gain of -9.94 dB. The x, y, and z axes are visible.</p>	 <p>3D radiation pattern for 2420 MHz. The plot shows a main lobe with a peak gain of -9.90 dB. The x, y, and z axes are visible.</p>	 <p>3D radiation pattern for 2440 MHz. The plot shows a main lobe with a peak gain of -9.68 dB. The x, y, and z axes are visible.</p>	 <p>3D radiation pattern for 2460 MHz. The plot shows a main lobe with a peak gain of -10.41 dB. The x, y, and z axes are visible.</p>
2485			
 <p>3D radiation pattern for 2485 MHz. The plot shows a main lobe with a peak gain of -11.54 dB. The x, y, and z axes are visible.</p>			

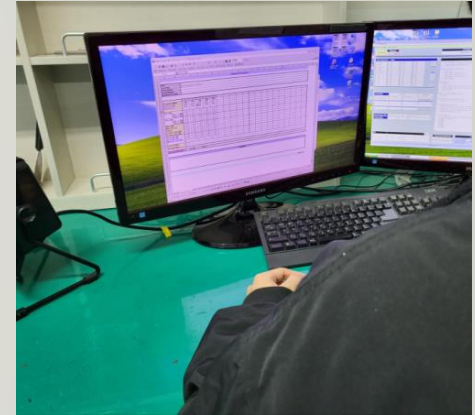
Measurement Procedure



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)