

ART SIGNAL

ANTENNA TOTAL SOLUTION



| **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

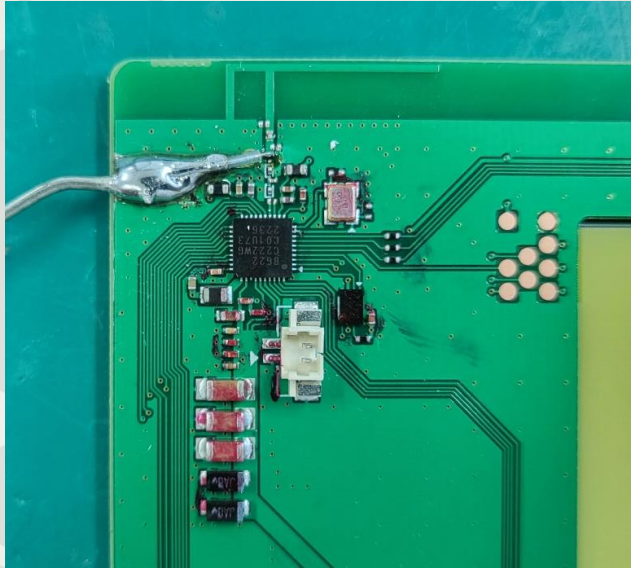
ART SIGNAL CO., LTD.

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

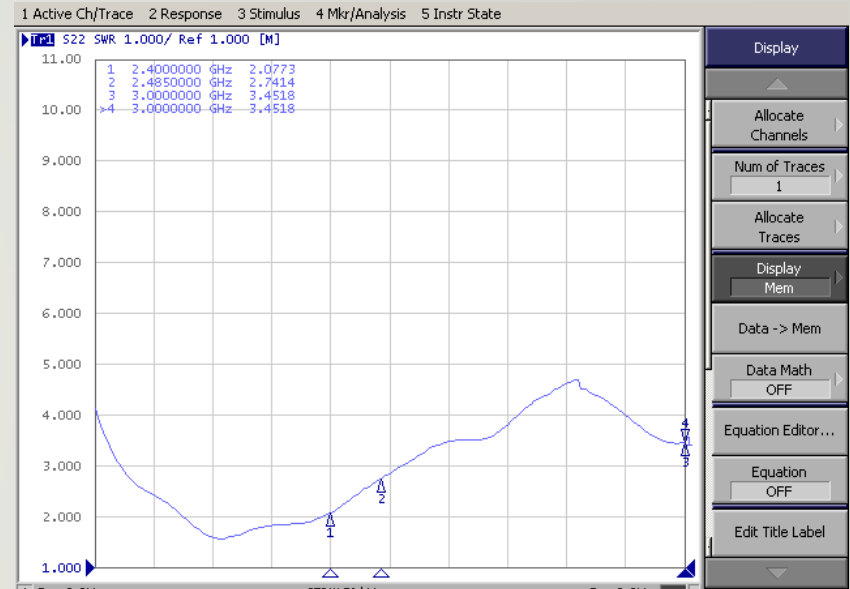
A N T E N N A T O T A L S O L U T I O N

Solu-M 11.6inch ANT #2 TEST DATA

Picture



VSWR

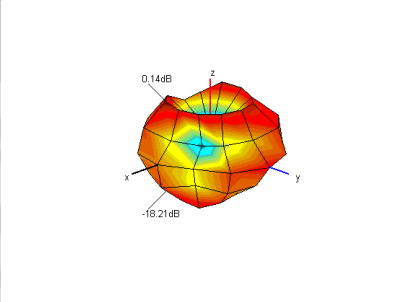
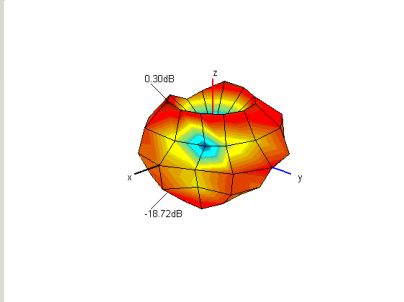
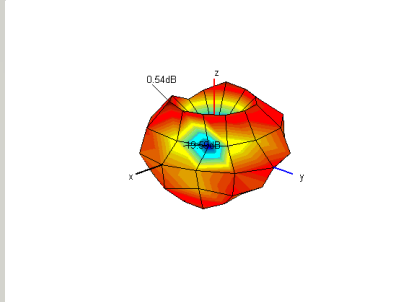
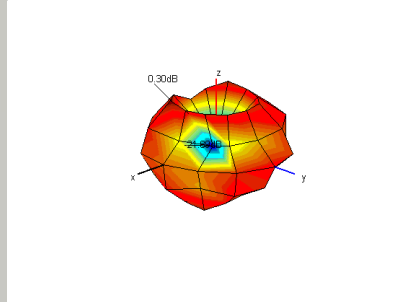
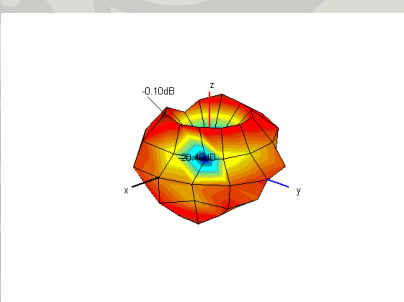


3D gain

	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

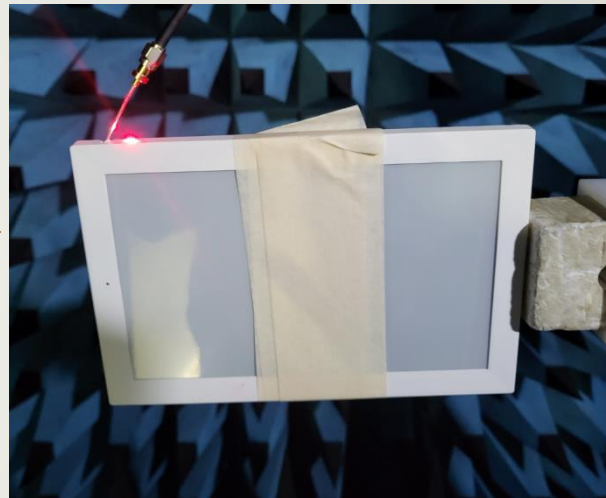
3D Radiation Pattern

2400	2420	2440	2460
 <p>3D radiation pattern for 2400 MHz. The plot shows a main lobe with a peak gain of 0.14 dB and a side lobe level of -18.21 dB. The x, y, and z axes are shown.</p>	 <p>3D radiation pattern for 2420 MHz. The plot shows a main lobe with a peak gain of 0.30 dB and a side lobe level of -18.72 dB. The x, y, and z axes are shown.</p>	 <p>3D radiation pattern for 2440 MHz. The plot shows a main lobe with a peak gain of 0.54 dB and a side lobe level of -18.72 dB. The x, y, and z axes are shown.</p>	 <p>3D radiation pattern for 2460 MHz. The plot shows a main lobe with a peak gain of 0.30 dB and a side lobe level of -18.72 dB. The x, y, and z axes are shown.</p>
2485			
 <p>3D radiation pattern for 2485 MHz. The plot shows a main lobe with a peak gain of 0.10 dB and a side lobe level of -18.72 dB. The x, y, and z axes are shown.</p>			

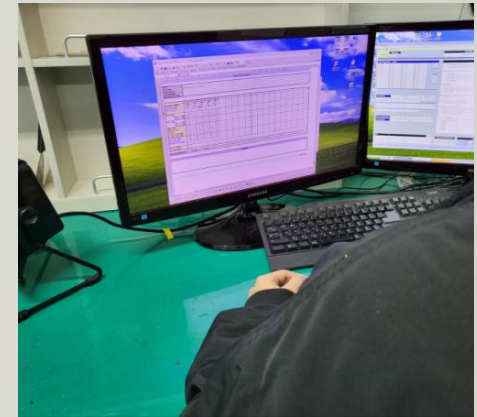
Measurement Procedure



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)