

ART SIGNAL

ANTENNA TOTAL SOLUTION



| 2.4G Antenna Test Data

Solu-M 11.6inch Dual ant #1 2.4G Antenna Test Data - Network & 3D gain & 3D Radiation Pattern

2023-04-03

Test by : Dong-Kyu Hwang

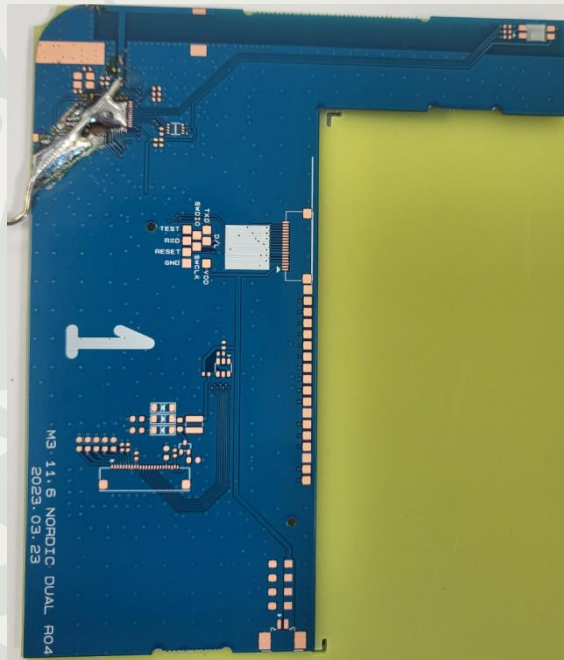
ART SIGNAL CO., LTD.

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

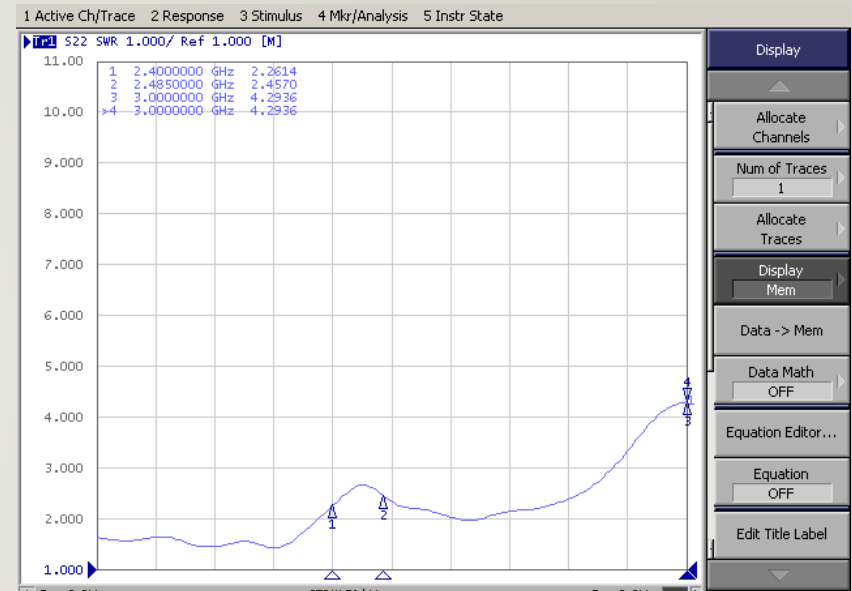
A N T E N N A T O T A L S O L U T I O N

Solu-M 11.6 inch Dual ant #1 TEST DATA

Picture



VSWR

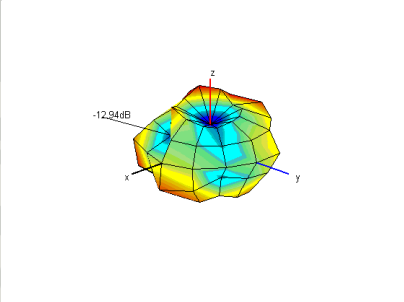
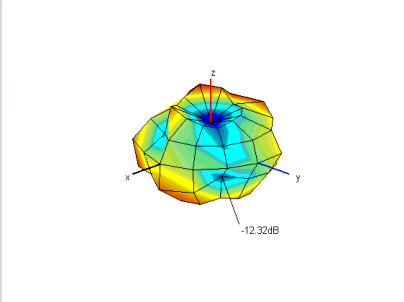
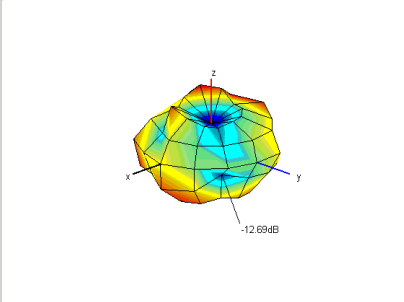
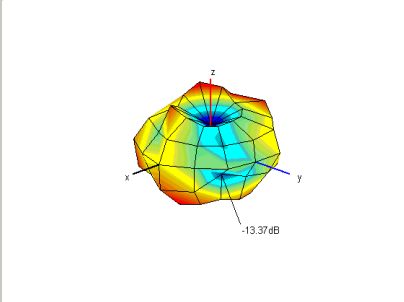
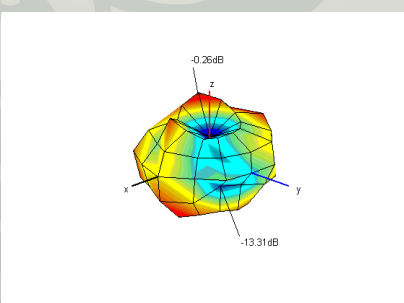


3D gain

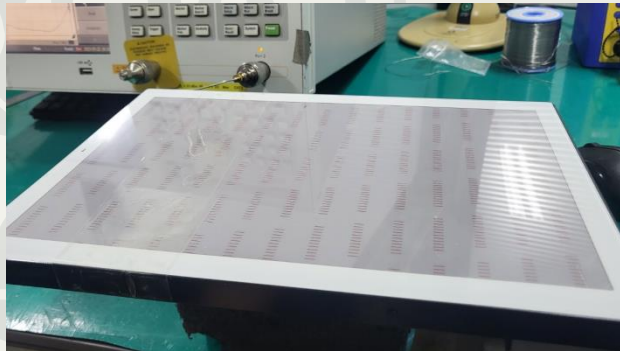
	1	2	3	4	5
Frequency [MHz]	2400	2420	2440	2460	2485
Efficiency [dB]	-4.91	-4.63	-4.37	-4.79	-5.01
Efficiency [%]	32.3	34.4	36.6	33.2	31.6
Peak Gain [dB]	0.12	0.40	0.53	-0.11	-0.26
Directivity [dB]	5.03	5.03	4.90	4.69	4.74
Minimum Gain [dB]	-12.94	-12.32	-12.69	-13.37	-13.31

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 -12.94 dB. The x, y, and z axes are shown, with the z-axis pointing upwards.</p>	 <p>3D radiation pattern for 2420 MHz. The plot shows a main lobe with a peak gain of -12.32 dB. The x, y, and z axes are shown, with the z-axis pointing upwards.</p>	 <p>3D radiation pattern for 2440 MHz. The plot shows a main lobe with a peak gain of -12.69 dB. The x, y, and z axes are shown, with the z-axis pointing upwards.</p>	 <p>3D radiation pattern for 2460 MHz. The plot shows a main lobe with a peak gain of -13.37 dB. The x, y, and z axes are shown, with the z-axis pointing upwards.</p>
2485			
 <p>3D radiation pattern for 2485 MHz. The plot shows a main lobe with a peak gain of -0.26 dB. The x, y, and z axes are shown, with the z-axis pointing upwards.</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)