

ART SIGNAL

ANTENNA TOTAL SOLUTION



| 2.4G Antenna Test Data

Solu-M Newton Pro 5.85 inch tag #1 ANT Test Data - Network & 3D gain & 3D Radiation Pattern

2024-02-21

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

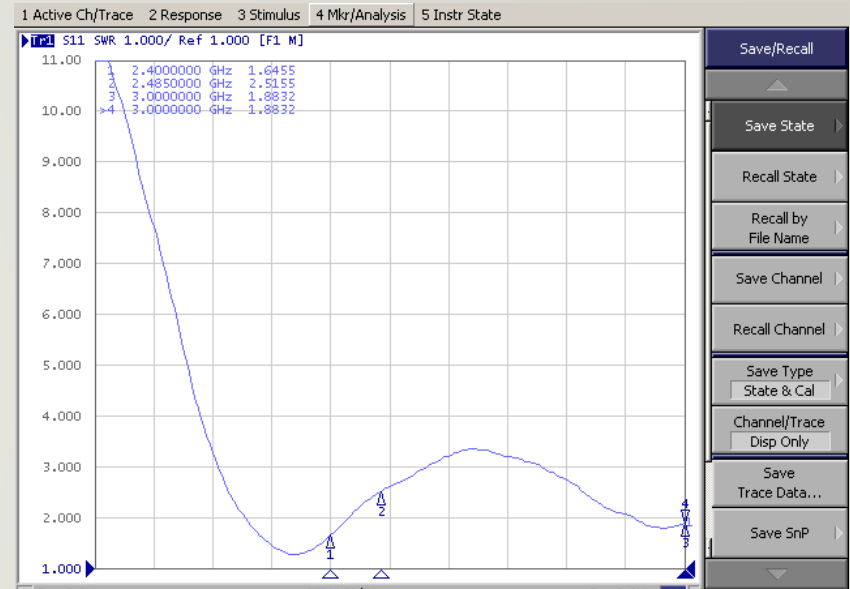
A N T E N N A T O T A L S O L U T I O N

Solu-M Newton Pro 5.85 inch tag #1 TEST DATA

Picture



VSWR

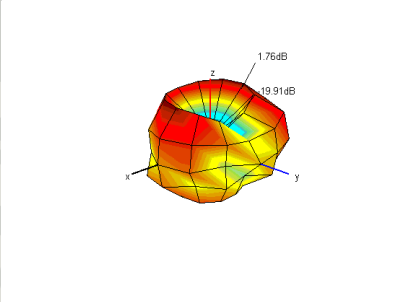
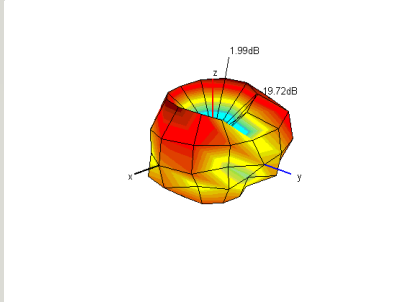
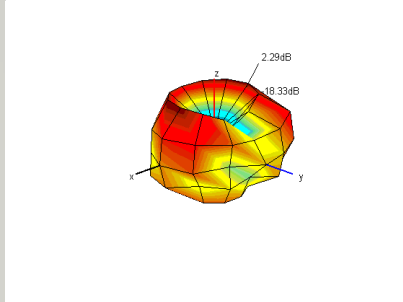
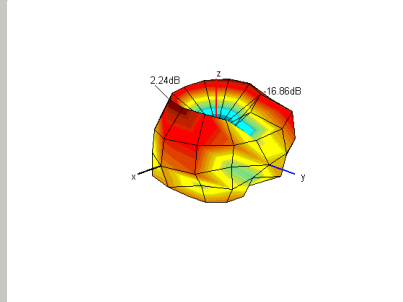
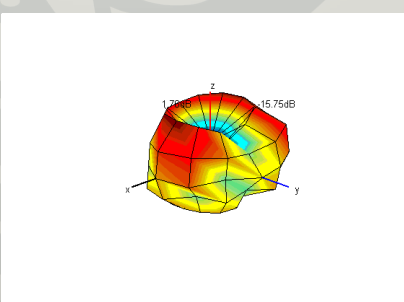


3D gain

	1	2	3	4	5
Frequency [MHz]	2400	2420	2440	2460	2485
Efficiency [dB]	-4.02	-3.72	-3.35	-3.42	-3.96
Efficiency [%]	39.6	42.5	46.2	45.5	40.2
Peak Gain [dB]	1.76	1.99	2.29	2.24	1.76
Directivity [dB]	5.78	5.71	5.64	5.66	5.71
Minimum Gain [dB]	-19.91	-19.72	-18.33	-16.86	-15.75

2.4G ANT DATA - 3D Radiation Pattern

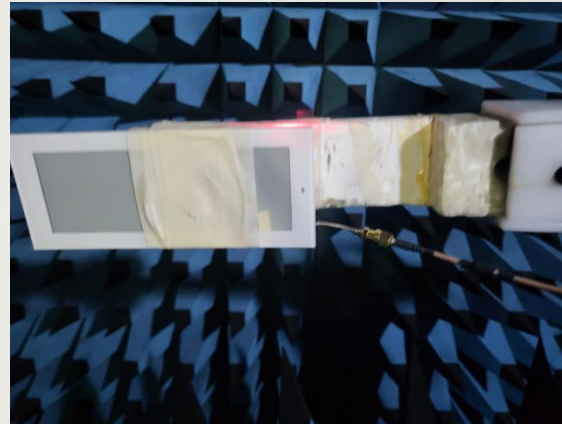
3D Radiation Pattern

2400	2420	2440	2460
 <p>3D radiation pattern for 2400 MHz. The plot shows a toroidal shape with a maximum gain of 1.76dB and a minimum gain of -19.91dB. The x, y, and z axes are shown.</p>	 <p>3D radiation pattern for 2420 MHz. The plot shows a toroidal shape with a maximum gain of 1.99dB and a minimum gain of -19.72dB. The x, y, and z axes are shown.</p>	 <p>3D radiation pattern for 2440 MHz. The plot shows a toroidal shape with a maximum gain of 2.29dB and a minimum gain of -18.33dB. The x, y, and z axes are shown.</p>	 <p>3D radiation pattern for 2460 MHz. The plot shows a toroidal shape with a maximum gain of 2.24dB and a minimum gain of -16.86dB. The x, y, and z axes are shown.</p>
2485			
 <p>3D radiation pattern for 2485 MHz. The plot shows a toroidal shape with a maximum gain of 1.75dB and a minimum gain of -15.75dB. 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)