

ART SIGNAL

ANTENNA TOTAL SOLUTION



| 2.4G Antenna Test Data

Solu-M Newton Silabs 2.6 ANT #1 2.4G Antenna Test Data - Network & 3D gain & 3D Radiation Pattern

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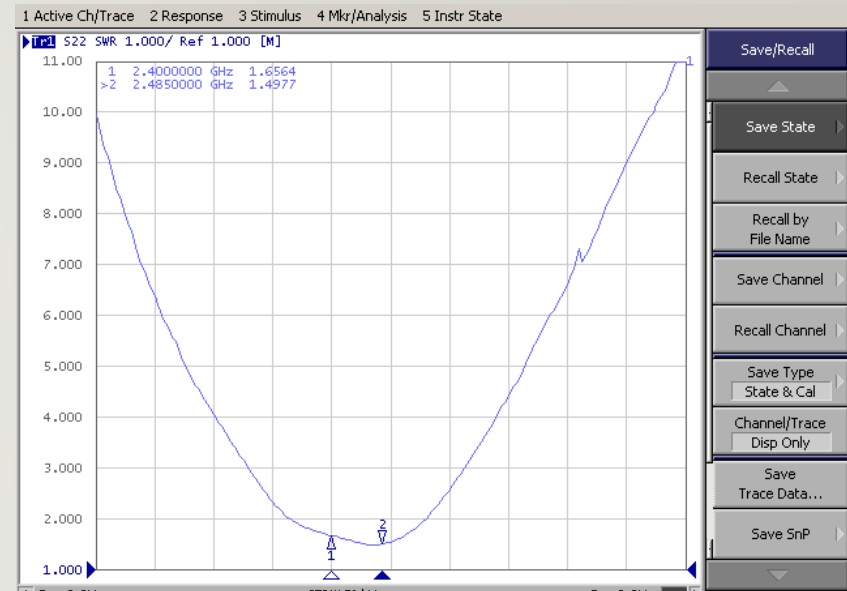
A N T E N N A T O T A L S O L U T I O N

Solu-M Newton Silabs 2.6 ANT #1 TEST DATA

Picture



VSWR

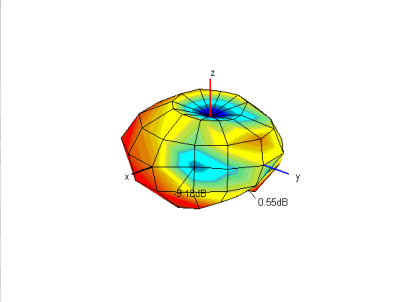
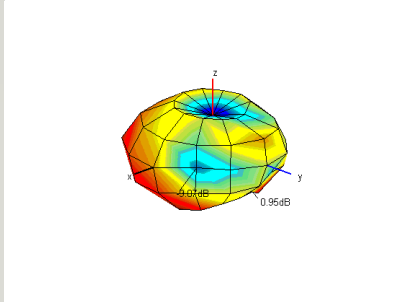
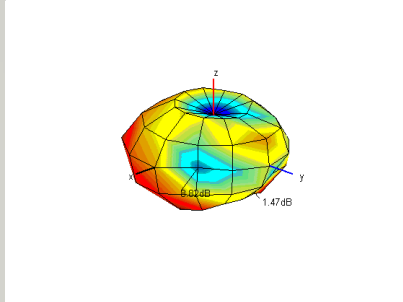
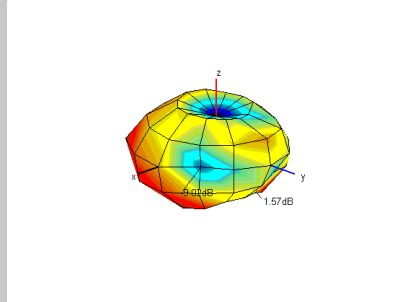
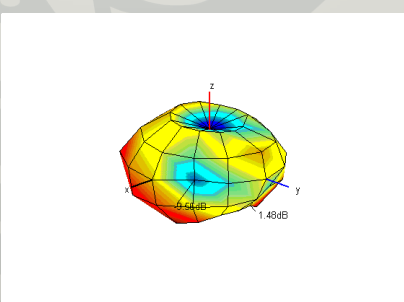


3D gain

	1	2	3	4	5
Frequency [MHz]	2400	2420	2440	2460	2485
Efficiency [dB]	-2.68	-2.43	-1.89	-1.90	-2.33
Efficiency [%]	54.0	57.2	64.7	64.6	58.5
Peak Gain [dB]	0.55	0.95	1.47	1.57	1.48
Directivity [dB]	3.23	3.37	3.36	3.46	3.81
Minimum Gain [dB]	-9.18	-9.07	-8.82	-9.02	-9.56

2.4G ANT DATA – 3D Radiation Pattern

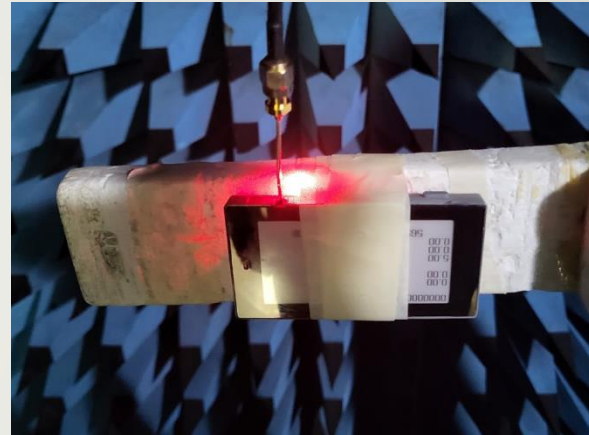
3D Radiation Pattern

2400	2420	2440	2460
 <p>A 3D radiation pattern plot for 2400 MHz. The plot shows a main lobe pointing upwards along the z-axis. The radiation intensity is color-coded from blue (low) to red (high). The main lobe reaches a peak of 2.10 dB. The side lobes are significantly lower, with the highest side lobe being 0.55 dB. The plot includes x, y, and z axes.</p>	 <p>A 3D radiation pattern plot for 2420 MHz. The plot shows a main lobe pointing upwards along the z-axis. The radiation intensity is color-coded from blue (low) to red (high). The main lobe reaches a peak of 2.01 dB. The side lobes are significantly lower, with the highest side lobe being 0.95 dB. The plot includes x, y, and z axes.</p>	 <p>A 3D radiation pattern plot for 2440 MHz. The plot shows a main lobe pointing upwards along the z-axis. The radiation intensity is color-coded from blue (low) to red (high). The main lobe reaches a peak of 1.61 dB. The side lobes are significantly lower, with the highest side lobe being 1.47 dB. The plot includes x, y, and z axes.</p>	 <p>A 3D radiation pattern plot for 2460 MHz. The plot shows a main lobe pointing upwards along the z-axis. The radiation intensity is color-coded from blue (low) to red (high). The main lobe reaches a peak of 1.44 dB. The side lobes are significantly lower, with the highest side lobe being 1.57 dB. The plot includes x, y, and z axes.</p>
2485			
 <p>A 3D radiation pattern plot for 2485 MHz. The plot shows a main lobe pointing upwards along the z-axis. The radiation intensity is color-coded from blue (low) to red (high). The main lobe reaches a peak of 1.54 dB. The side lobes are significantly lower, with the highest side lobe being 1.48 dB. The plot includes x, y, and z axes.</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)