ART SIGNAL Company _ Antenna Total Solution (ART-S 2023)

ART SIGNAL

ANTENNA TOTAL SOLUTION

Ver.1 2020

2.4G Antenna Test Data

Solu-M 9.7inch tag ant #1 2.4G Antenna Test Data

- Network & 3D gain & 3D Radiation Pattern

2023-09-12

Test by : Dong-Kyu Hwang

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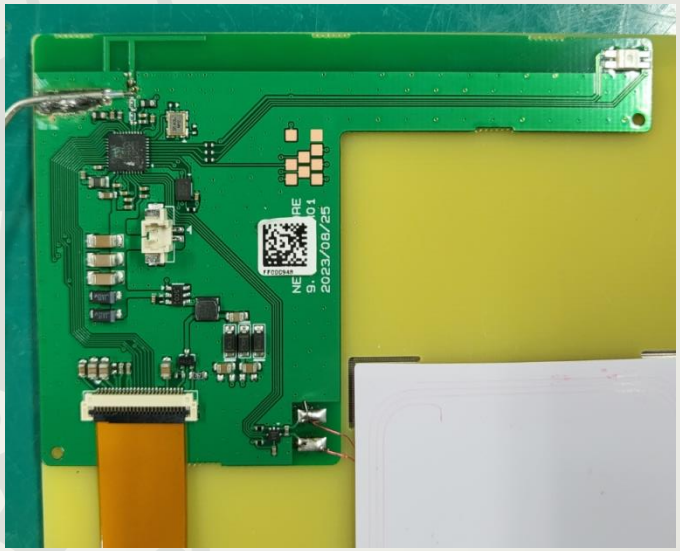
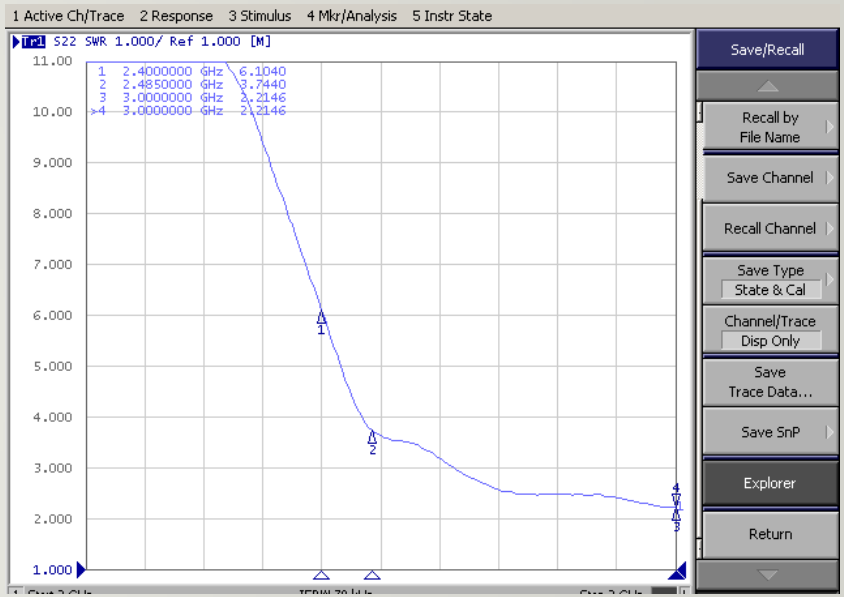
Jungwon-gu, Seongnam-si, Gyeonggi-do, KOREA

Solu-M 9.7inch tag ant #1 TEST DATA

Picture



VSWR

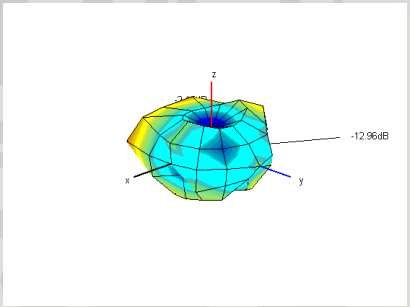
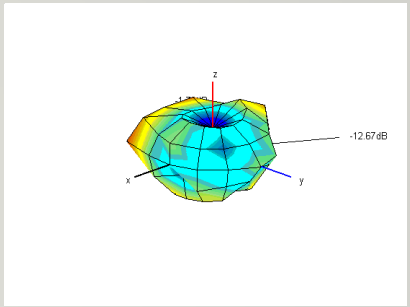
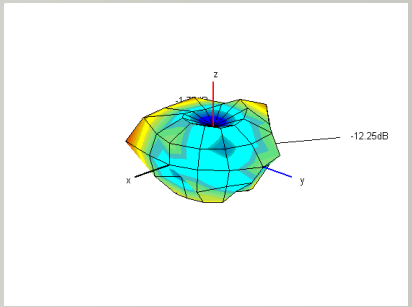
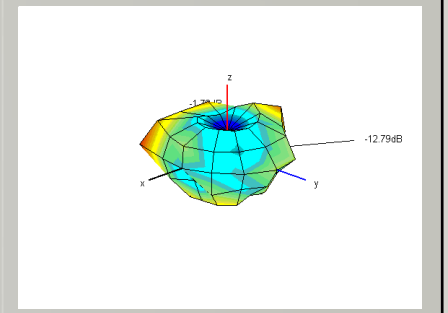
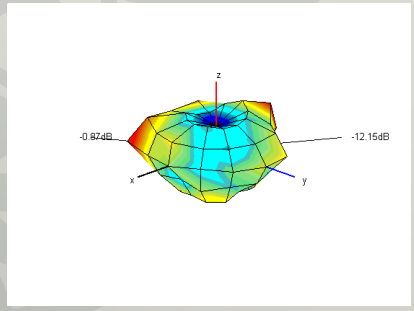


3D gain

	1	2	3	4	5
Frequency [MHz]	2400	2420	2440	2460	2485
Efficiency [dB]	**-7.13**	**-6.79**	**-6.68**	**-6.67**	**-6.26**
Efficiency [%]	**19.4**	**20.9**	**21.5**	**21.5**	**23.6**
Peak Gain [dB]	-2.15	-1.73	-1.72	-1.78	-0.87
Directivity [dB]	4.97	5.06	4.96	4.89	5.40
Minimum Gain [dB]	-12.96	-12.67	-12.25	-12.79	-12.15

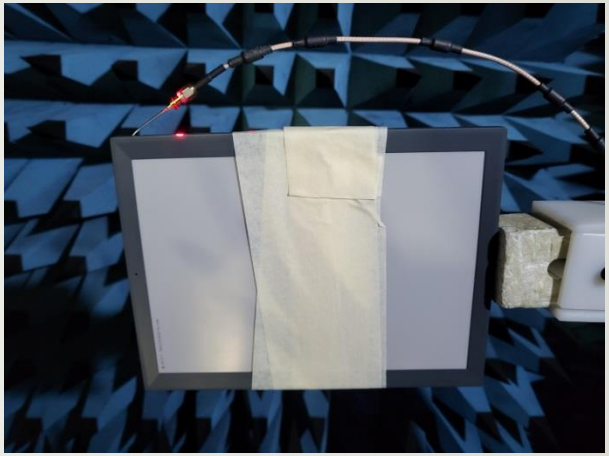
2.4G ANT DATA – 3D Radiation Pattern

3D Radiation Pattern

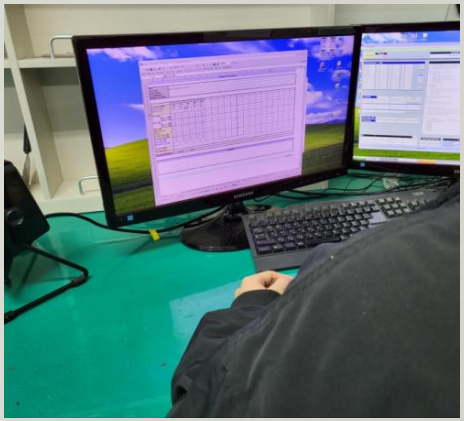
2400	2420	2440	2460
			
2485			
			

Measurement Procedure

Network Analyzer을 이용하여 VSWR 측정



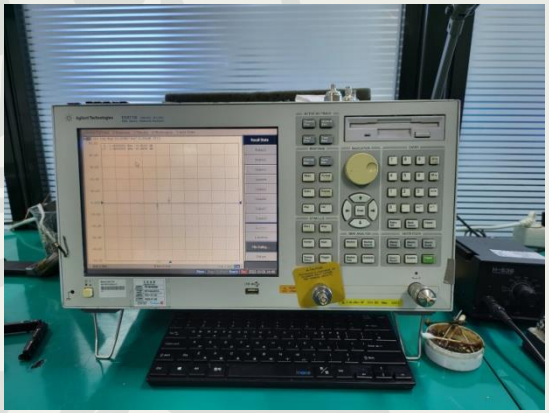
3D Chamber에 Set 거치



Program을 이용하여 Gain 측정

Measurement Equipment

Network Analyzer



E5071B (Agilent)

8753ES (Agilent)

CTIA 3D OTA Chamber(A+Tech)