

H691 Pike Wireless Performance Test Report

Hardware Vision: H691 Pike, V1R1 ,6 layers

Software Vision: V0.28

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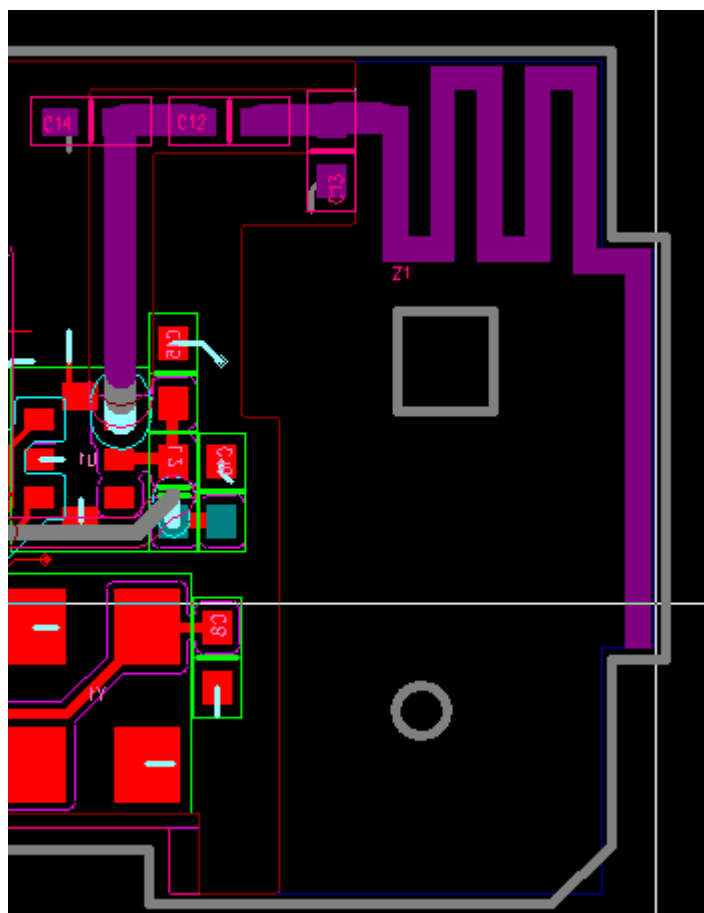
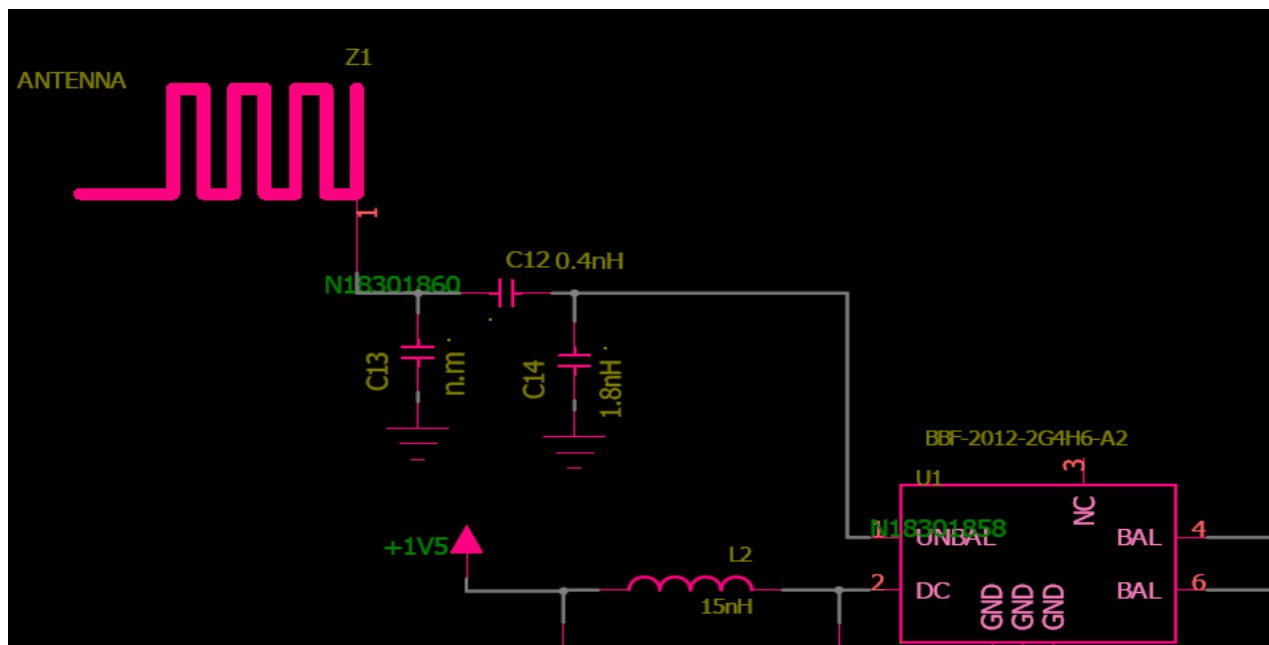
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1. Purpose

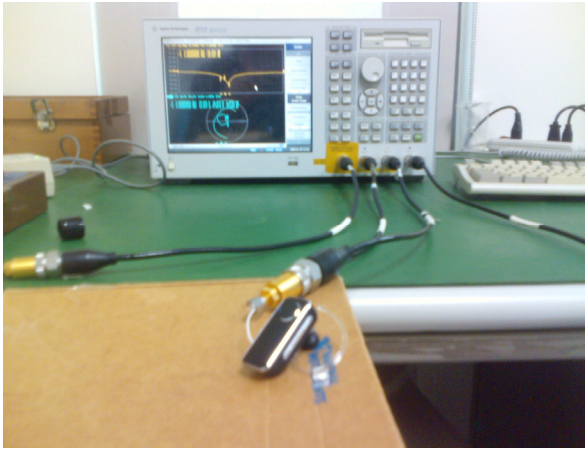
We want to measure antenna performance and make sure the wireless performance.

2. Schematic and Layout



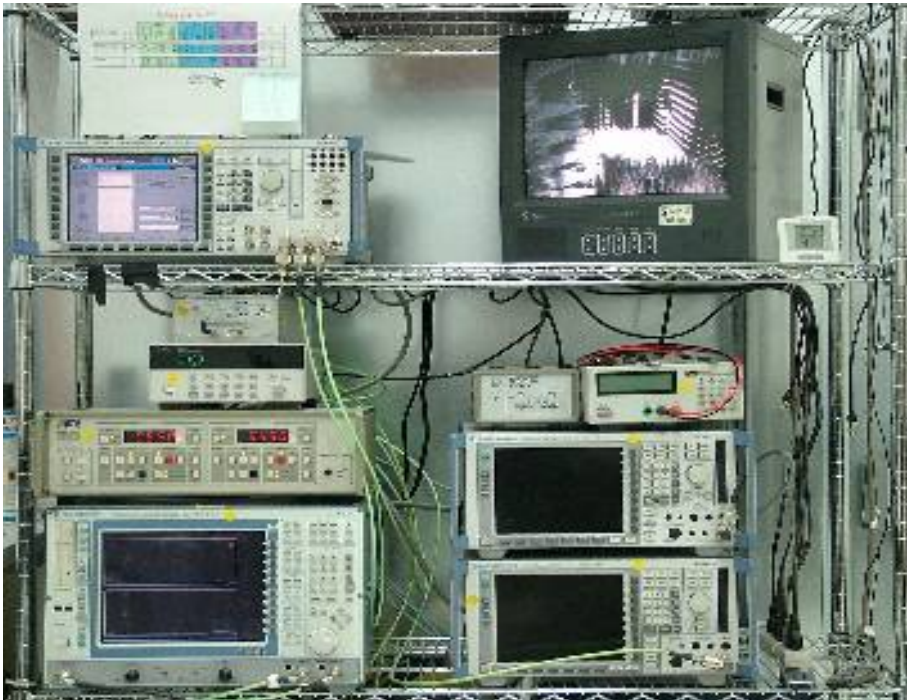
3. Test setting:

a. Return Loss



1. Test Equipment: HP Agilent Network Analyzer E5071B

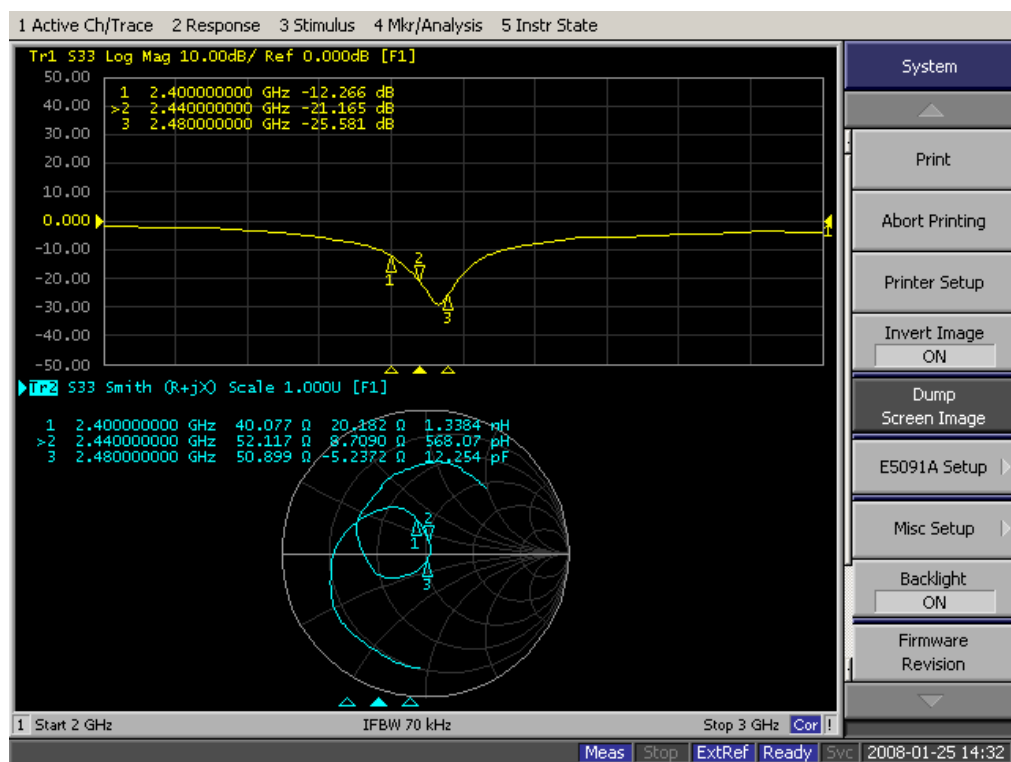
b. Antenna Radiation Pattern



1. Lab standard: 3D Chamber for CTIA standard
2. Chamber: 7.2 * 3.6 * 3.6(meter) Fully anechoic
3. Signal generator
4. Spectrum Analyzer R&S FSP
5. Measurement Software: EMQuest 3D OTA (ETS-Lindgren)

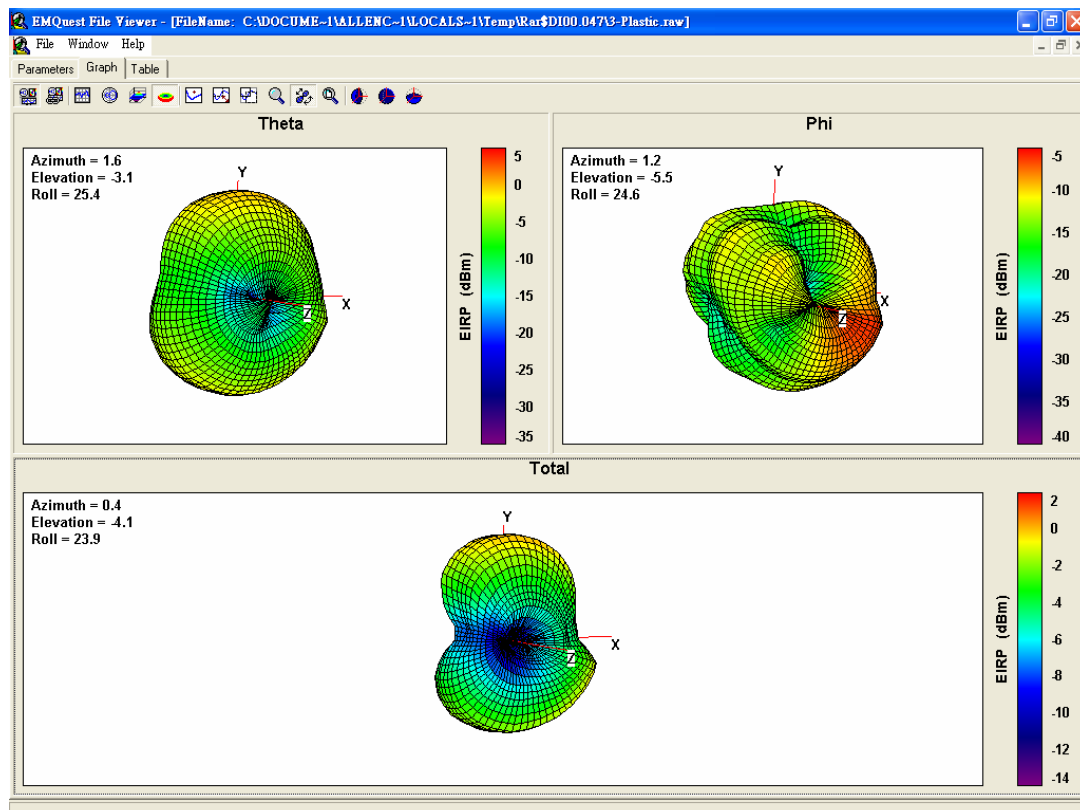
4. Test Data

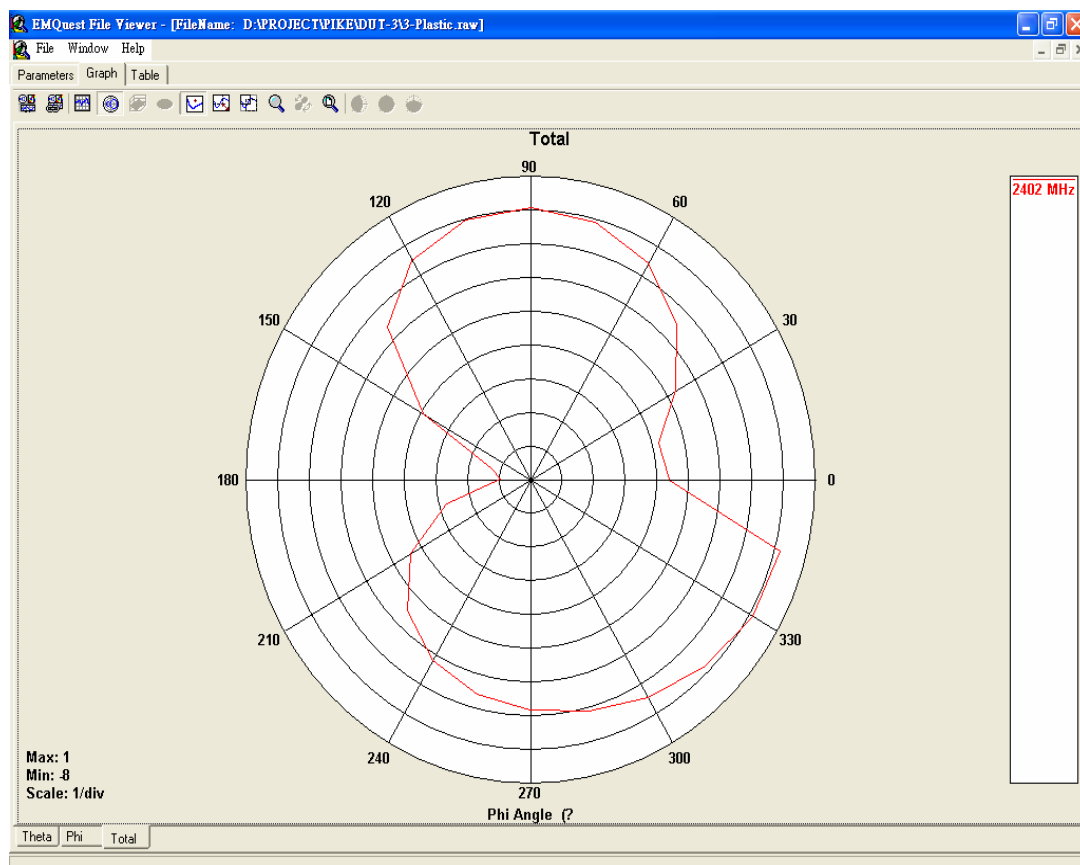
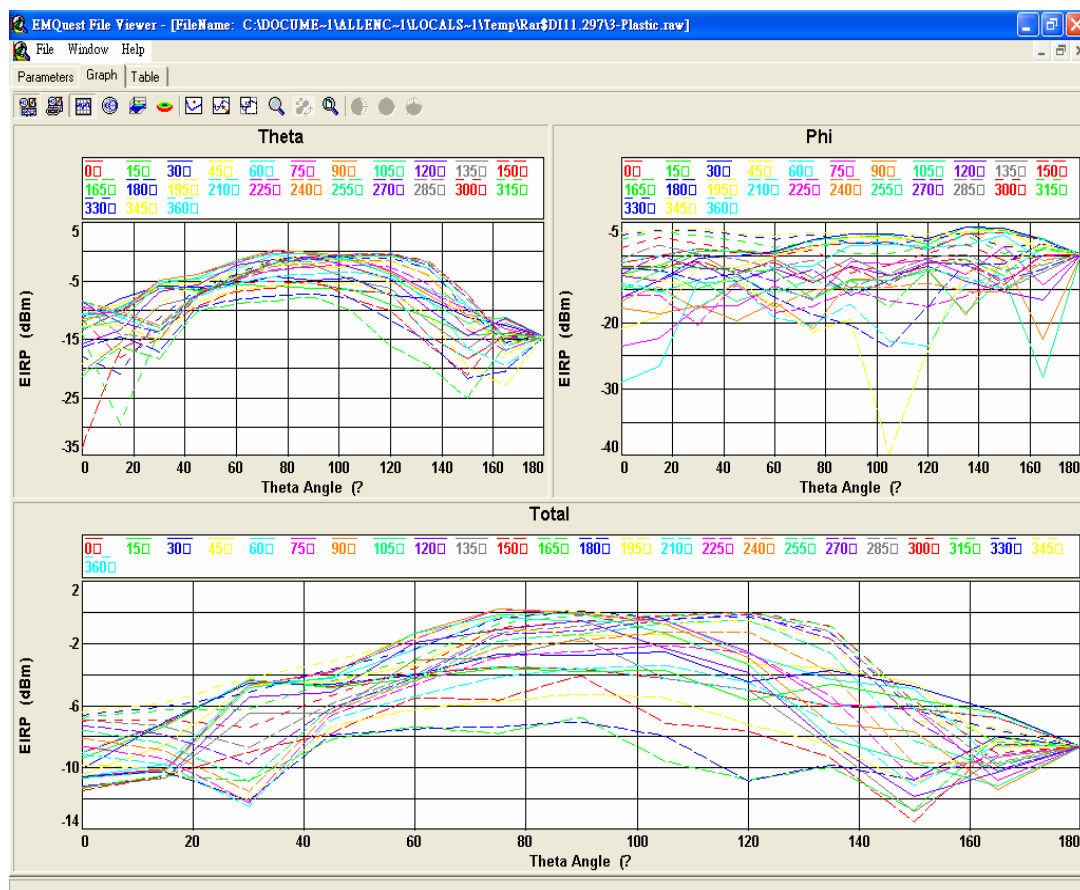
a. Return Loss

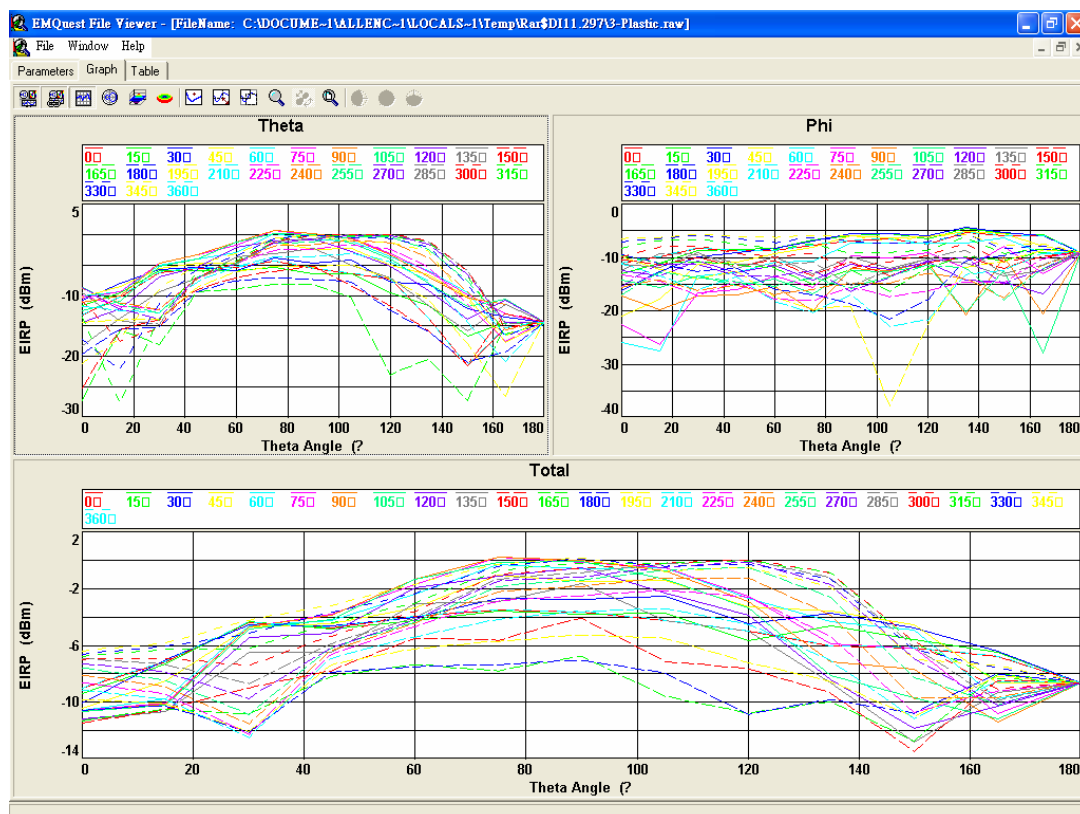
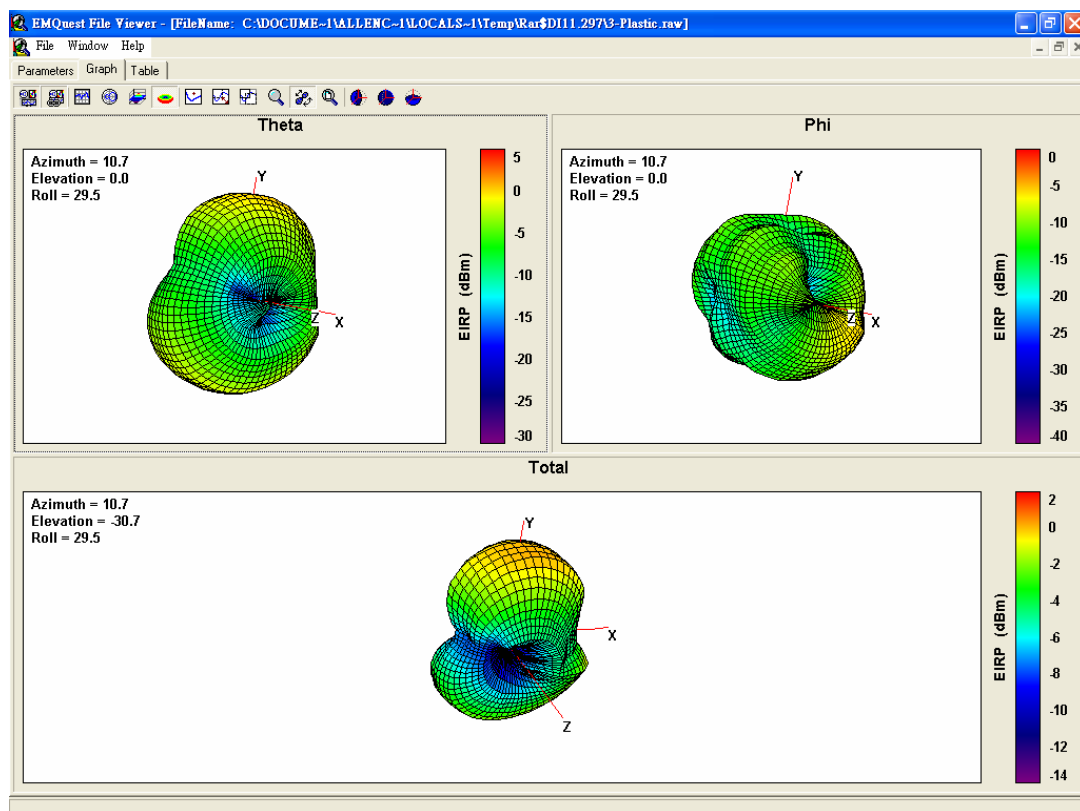


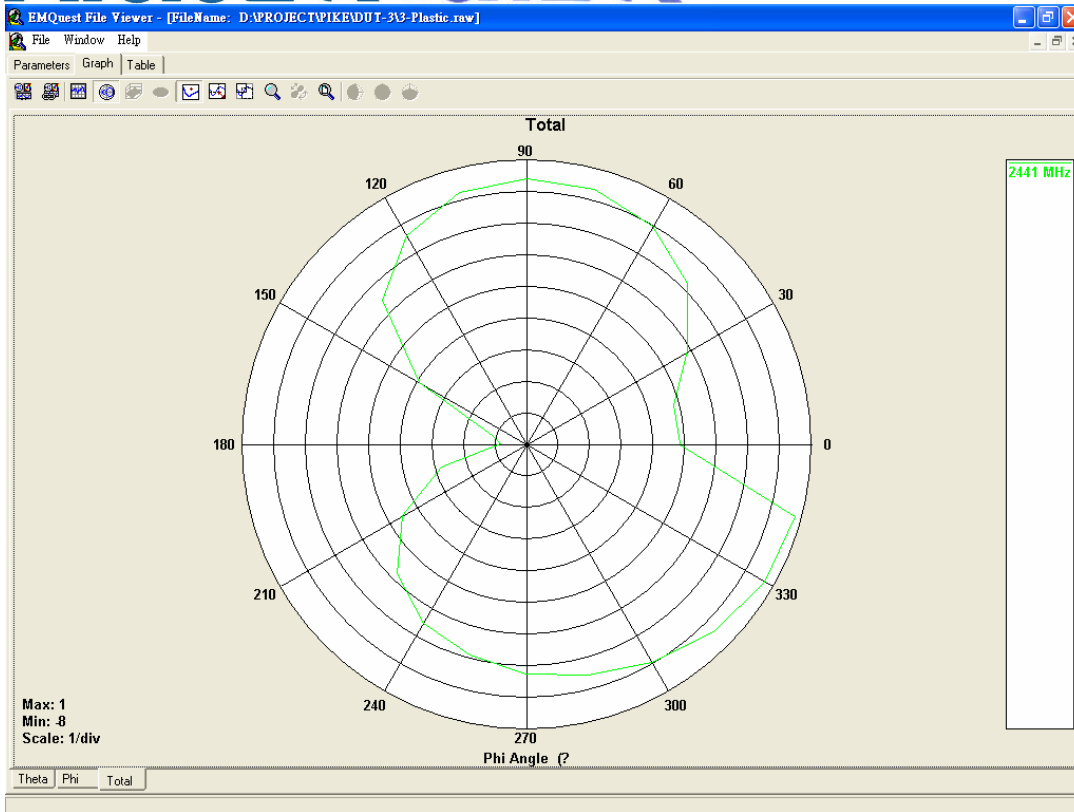
b. Antenna Radiation Pattern

2402MHz

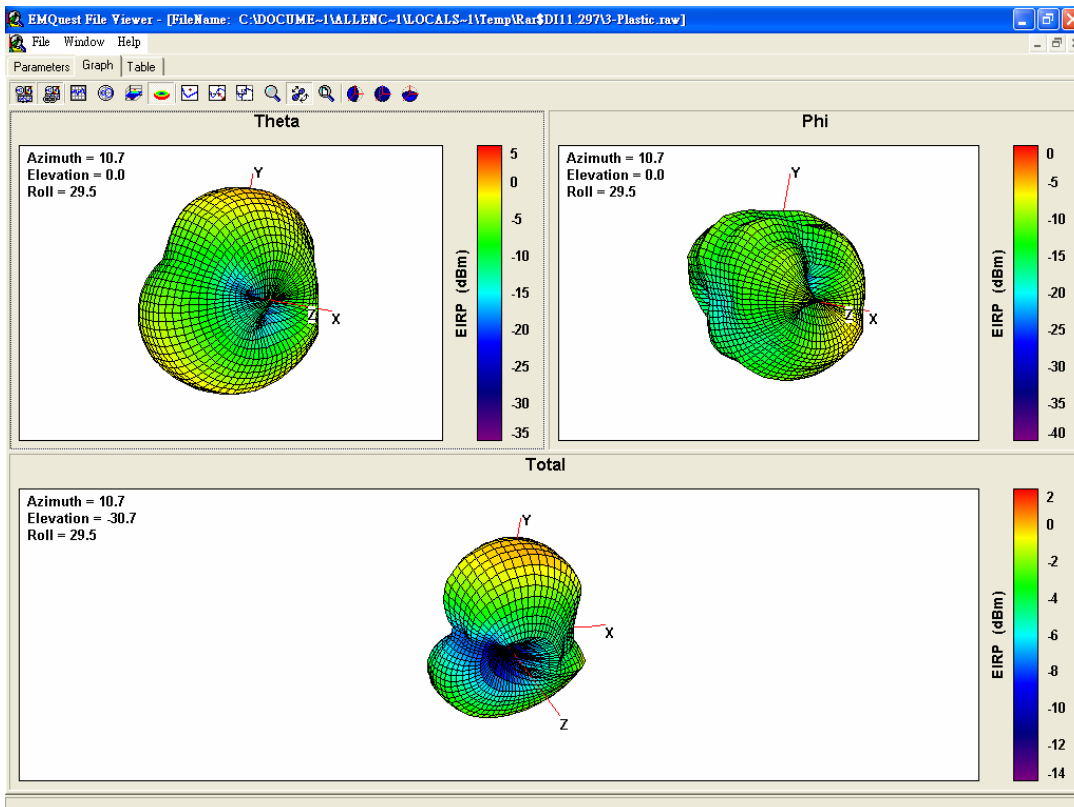


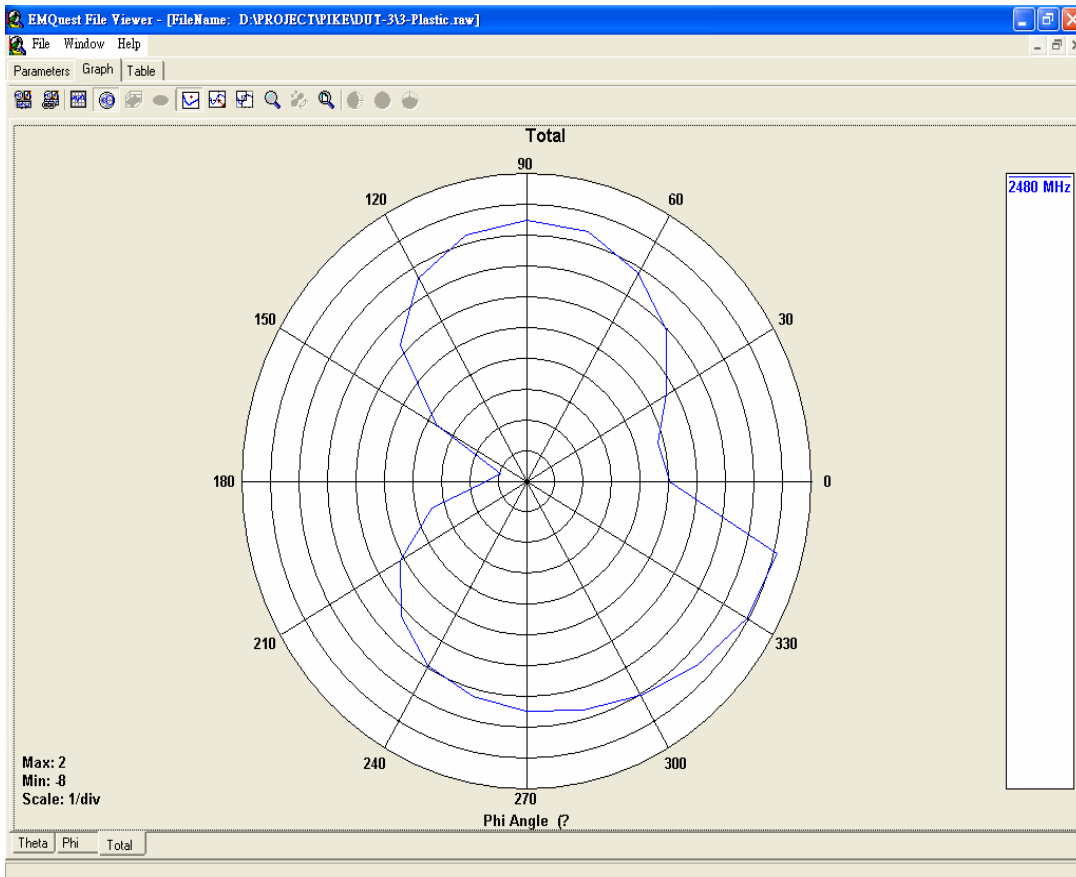
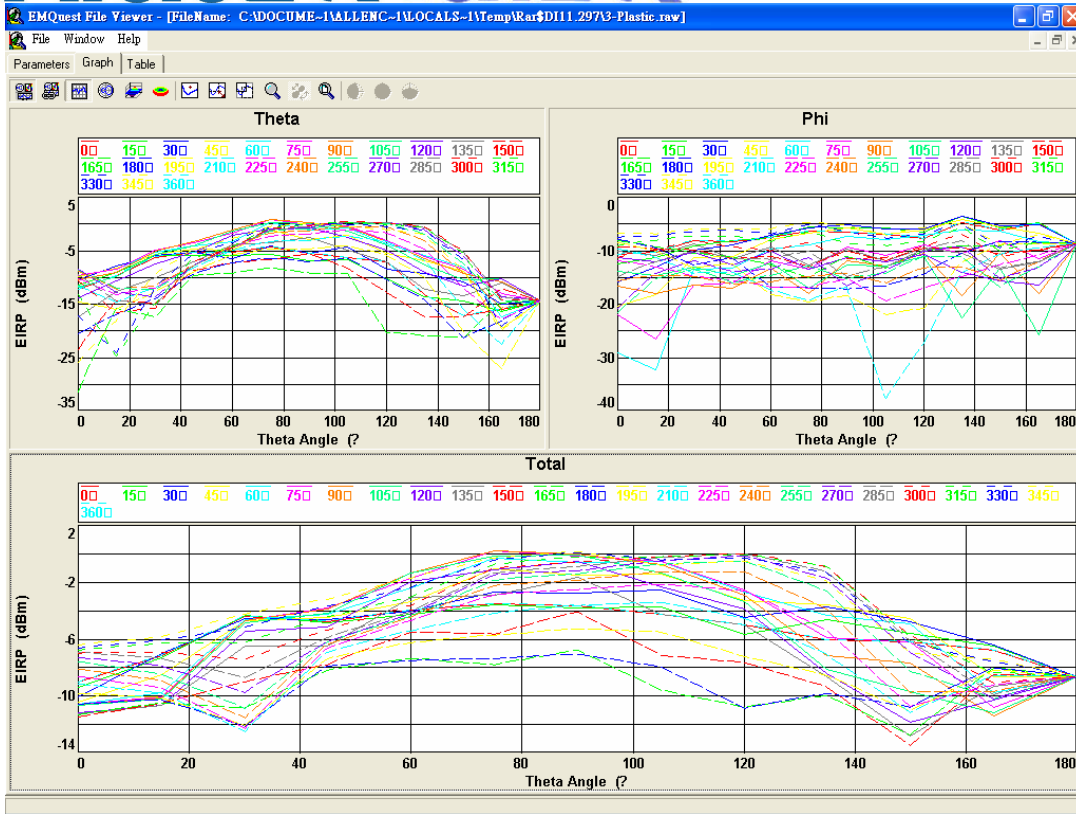






2480MHz





5. Test result Summary

5.1 Antenna returns loss test result:

Frequency (MHz)	2400	2440	2480
S11 (dB)	-12.2	-21.1	-25.5

5.2 Radiation pattern test result:

Frequency	2402	2441	2480
Total Radiation power (dBm)	-3.38	-2.93	-2.70
Peak EIRP(dBm)	0.19	0.79	1.10