

Mclaren Beta
Antenna Return Loss
& Radiation Pattern
Test Report

Version: 0.4

Project Name: McLaren

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Document History

Rev.	Date	Author	Reason for Changes
0.1	2006/7/12	Tony Lu/ Wanson Hsu	<ul style="list-style-type: none">• First Release
0.2	2007/04/02	Owen Chan/Joe Wang	<ul style="list-style-type: none">• Release for Alpha
0.3	2007/04/04	Allen Yang	<ul style="list-style-type: none">• Added the test data of non plating samples
0.4	June/27/2007	Tony Lu	<ul style="list-style-type: none">• Release for Beta

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1. TEST SETUP

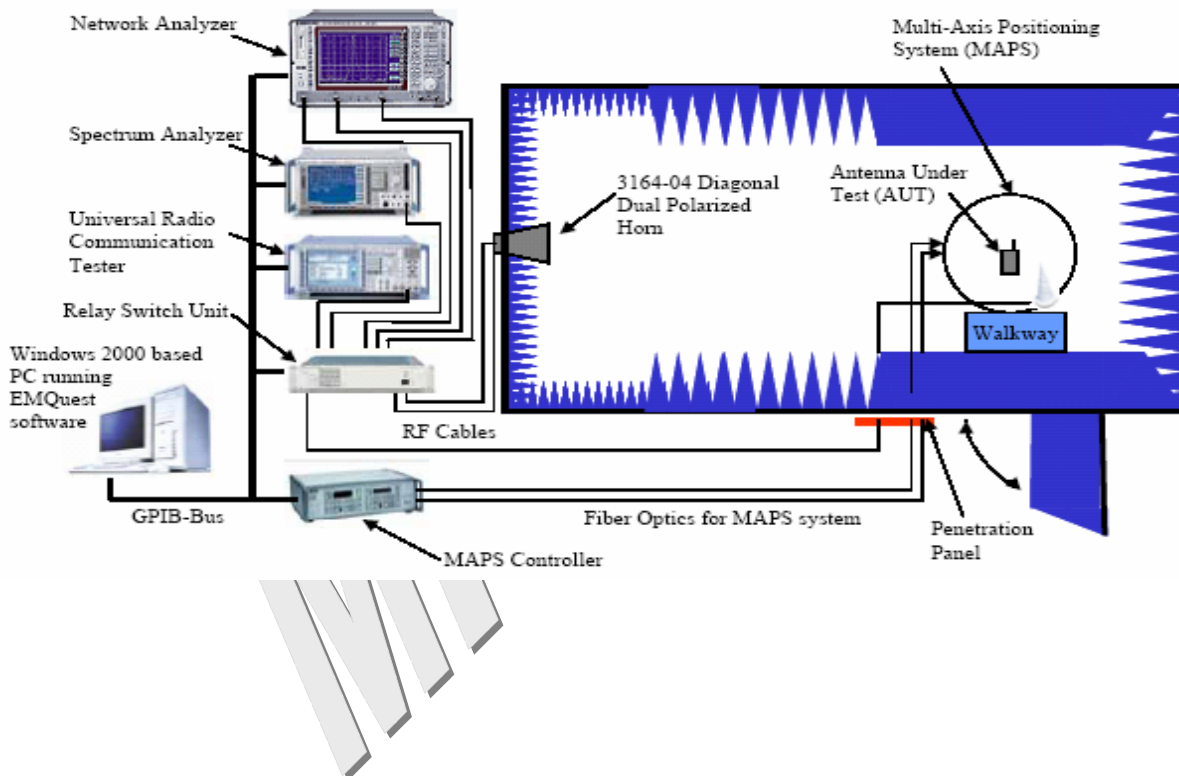
1.1 Test Unit

1. Hardware Version: V5R5
2. Housing: McLaren Beta

1.2 Test Equipment

1. AMS-8500 System
2. Test Method: 3D radiation pattern
3. Test Lab: Foxlink RTC

Typical AMS-8500 System Schematic



1.3 Test Result Summary

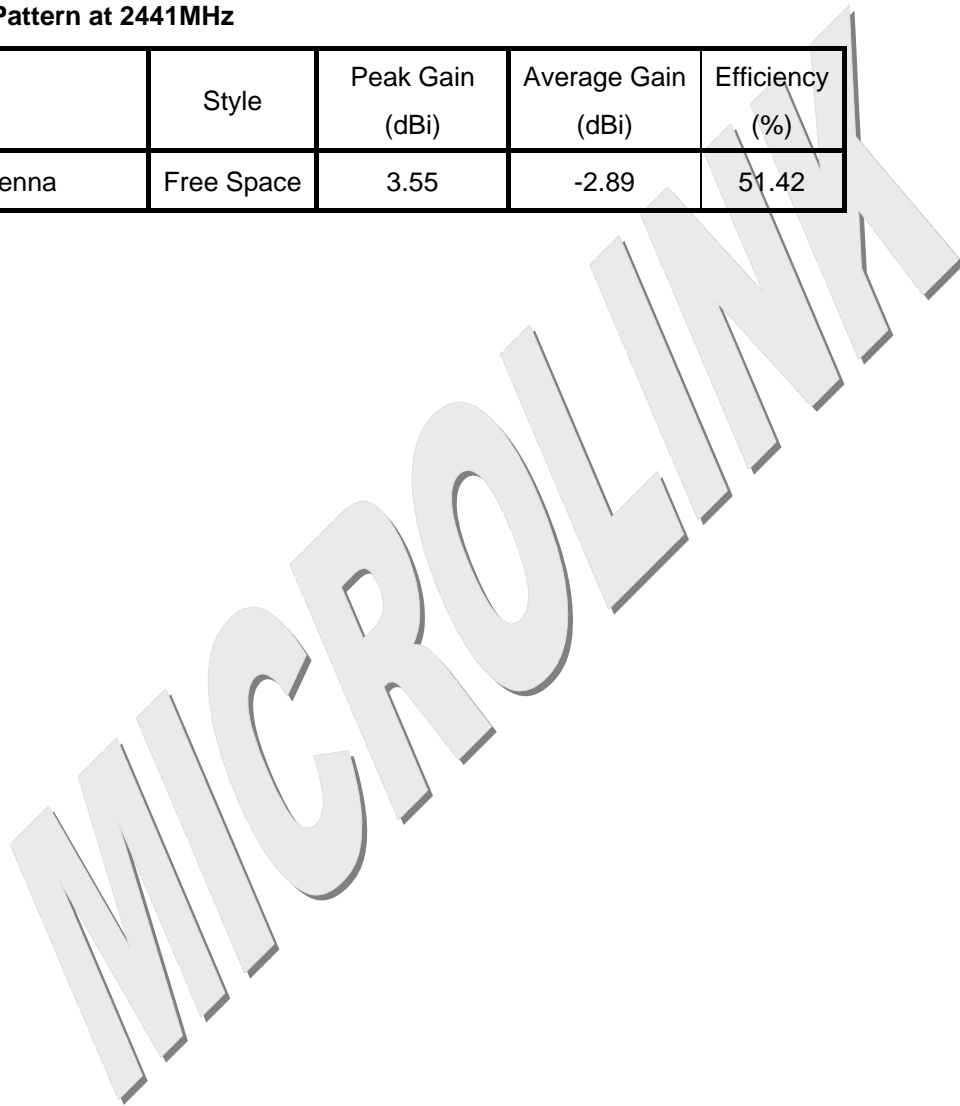
1.3.1 Return Loss

Unit	2400	2442	2480
With FM antenna	-10.52	-18.80	-11.36

Unit: dB

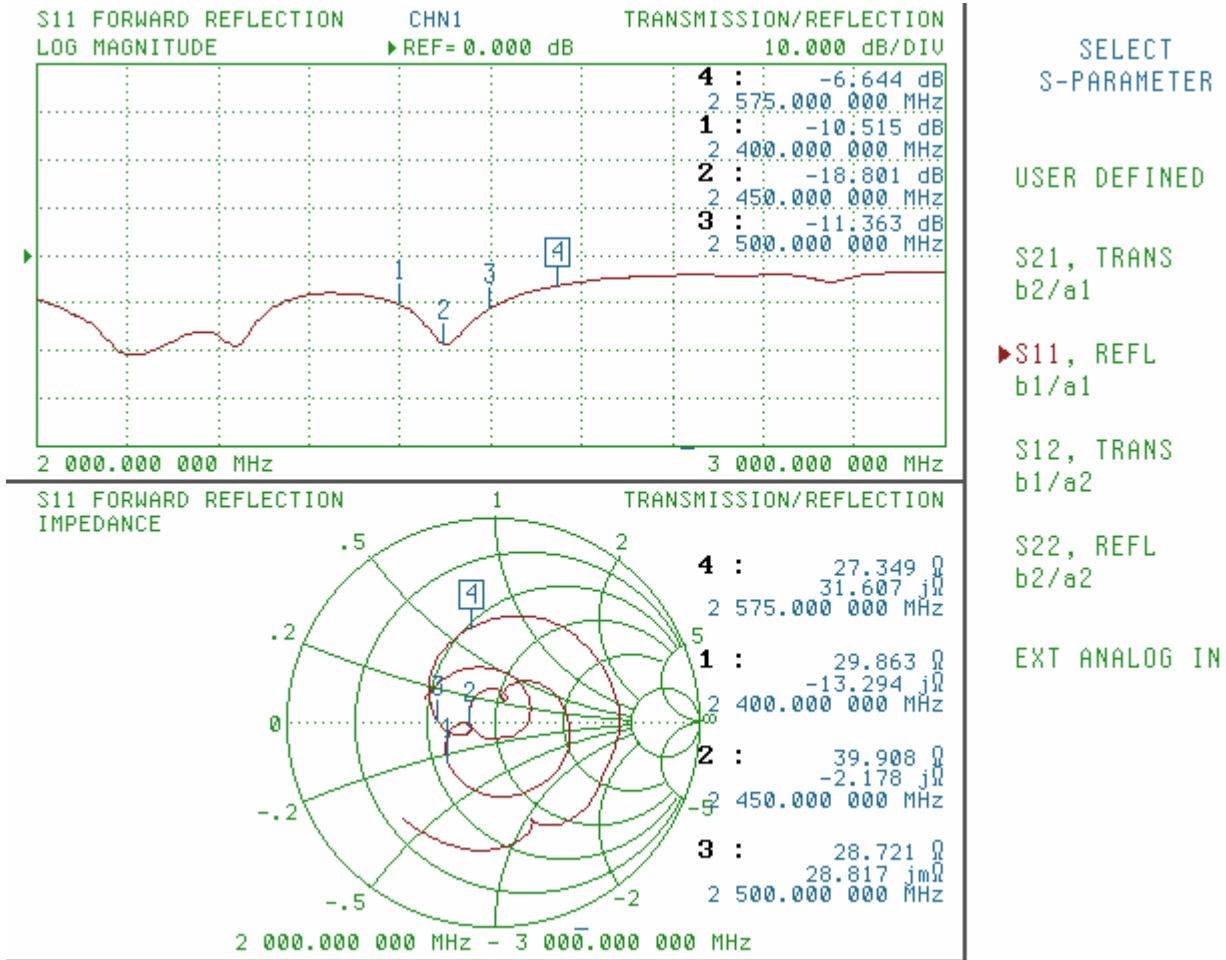
1.3.2 Radiation Pattern at 2441MHz

Unit	Style	Peak Gain (dBi)	Average Gain (dBi)	Efficiency (%)
With FM antenna	Free Space	3.55	-2.89	51.42



1.4 Return Loss and Radiation Pattern (With FM antenna)

1.4.1 Return Loss & Smith Chart



1.4.2 Radiation Pattern @ 2441MHz

Free Space:



"TS05 with FM antenna Free.pdf"