



Modular Approval  
Test Report  
And Application for Grant of Equipment Authorization

*TEST REPORT PERTAINING TO:*

| Equipment Under Test             | Model Number(s) |
|----------------------------------|-----------------|
| Intel® Centrino® Ultimate-N 6200 | 622ANHMW        |

| CONFIGURATION                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------|
| IEEE 802.11a / 802.11b / 802.11g / 802.11n with a set of<br>Shanghai Universe Communication Electron Co.,Ltd. Antennas |

*MEASUREMENTS PERFORMED IN ACCORDANCE WITH THE FOLLOWING STANDARD (S)*

| Regulatory Standard(s)                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 47 CFR Part 15, Subpart E Section 15.407 (UNII Devices)                                                                                                                                              |
| Test Method:<br>ANSI C63.4: 2003 American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz |



Certificate Number: 1111.01

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|       | REPORT BODY | APPENDICES |   | TOTAL PAGES |
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|       |             | A          | B |             |
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## 1.0 REGULATORY COMPLIANCE GUIDELINES

Aegis Labs, Inc. operates as both a Nevada and California Corporation with no organizational or financial relationship with any company, institution, or private individual. Testing and engineering functions provided by Aegis Labs were furnished by RF technicians and engineers with accredited qualifications and training credentials to carry out their duties.

The object of this report was to publish verifiable test results of an EUT subjected to the tests outlined in the standard listed on the cover page of this report.

### 1.1 Guidelines For Testing To Emissions Standards

This standard for EMC emission requirements apply to electrical equipment for Information Technology Equipment (ITE). Compliance to these standards and in combination with the other standards listed in this test report can be used to demonstrate presumption of compliance with the protection requirements of the appropriate agency standard.

The purpose of this standard is to specify minimum requirements for emissions regarding electromagnetic compatibility (EMC) and protect the radio frequency spectrum 9 kHz. – 400 GHz. from unwanted interference generated from electrical/digital systems that intentionally or unintentionally generated RF energy. The emissions standards, normative documents and/or publications were used to conduct all tests performed on the equipment herein referred to as “Equipment Under Test”.



**2.0 SUMMARY OF TEST RESULTS**

**802.11a Mode (5150-5350 MHz) Chain A**

| <b>EMISSIONS STANDARD</b>                  |                                                                                                                                                                                      |                |                                                                                                                                  |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>FCC Part 15 Section</b>                 | <b>Description</b>                                                                                                                                                                   | <b>Results</b> | <b>Comments</b>                                                                                                                  |
| <b>Operation in the 5.15-5.25 GHz Band</b> |                                                                                                                                                                                      |                |                                                                                                                                  |
| 15.407(d)                                  | Any UNII device shall use a transmitting antenna that is an integral part of the device.                                                                                             | PASSED         | The antenna will be integral when installed in a notebook computer                                                               |
| 15.407(e)                                  | UNII devices will be restricted to indoor operations.                                                                                                                                | PASSED         | Refer to "User's Manual" Exhibit                                                                                                 |
| 15.407(a)(1)                               | 26dB emissions bandwidth in MHz.                                                                                                                                                     | N/A            | 5.18 GHz = 25.58 MHz<br>5.20 GHz = 28.50 MHz<br>5.24 GHz = 23.50 MHz                                                             |
| 15.407(a)(1)                               | Maximum Conducted Output Power shall not exceed the lesser of 50mW or 4dBm+10logB (where B = 26dB emissions bandwidth).                                                              | PASSED         | 5.18 GHz = 16.64dBm (46.17mW)<br>5.20 GHz = 16.84dBm (48.35mW)<br>5.24 GHz = 16.44dBm (44.09mW)                                  |
| 15.407(a)(1)                               | The peak power spectral density shall not exceed 4dBm in any 1MHz band.                                                                                                              | PASSED         | 5.18 GHz = 1.240dBm<br>5.20 GHz = 1.851dBm<br>5.24 GHz = 2.120dBm                                                                |
| 15.407(a)(1)                               | Maximum Conducted Output Power and the peak power spectral density shall be reduced by the amount in dB that the transmitting antenna exceeds 6dBi.                                  | N/A            | All antennas tested have less than 6dBi antenna gain (Please see the antenna data sheets)                                        |
| 15.407(b)(6) 15.209                        | Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                                                            |
| 15.407(b)(1)                               | All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.                                                                                              | PASSED         | See Data Sheets                                                                                                                  |
| <b>Operation in the 5.25-5.35 GHz Band</b> |                                                                                                                                                                                      |                |                                                                                                                                  |
| 15.407(a)(2)                               | 26dB emissions bandwidth in MHz.                                                                                                                                                     | N/A            | 5.26 GHz = 27.08 MHz<br>5.28 GHz = 25.58 MHz<br>5.32 GHz = 23.33 MHz                                                             |
| 15.407(a)(2)                               | Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).                                                            | PASSED         | 5.26 GHz = 16.64dBm (46.17mW)<br>5.28 GHz = 16.64dBm (46.17mW)<br>5.32 GHz = 16.74dBm (47.25mW)                                  |
| 15.407(a)(2)                               | The peak power spectral density shall not exceed 11dBm in any 1MHz band.                                                                                                             | PASSED         | 5.26 GHz = 1.900dBm<br>5.28 GHz = 2.188dBm<br>5.32 GHz = 2.376dBm                                                                |
| 15.407(a)(2)                               | Maximum Conducted Output Power and the peak power spectral density shall be reduced by the amount in dB that the transmitting antenna exceeds 6dBi.                                  | N/A            | All antennas tested have less than 6dBi antenna gain (Please see the antenna data sheets)                                        |
| 15.407(b)(6) 15.209                        | Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                                                            |
| 15.407(b)(2)                               | All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz. Must meet all applicable technical requirements for operating in the 5.15-5.25 GHz band.     | PASSED         | See Data Sheets                                                                                                                  |
| <b>General Requirements For All Bands</b>  |                                                                                                                                                                                      |                |                                                                                                                                  |
| 15.407(a)(6)                               | The ratio of the peak excursion of the modulation envelope to the peak transmit power shall not exceed 13dB across any 1 MHz bandwidth or the emissions bandwidth whichever is less. | PASSED         | 5.18 GHz = 5.50 dB<br>5.20 GHz = 5.33 dB<br>5.24 GHz = 6.00 dB<br>5.26 GHz = 5.84 dB<br>5.28 GHz = 5.50 dB<br>5.32 GHz = 5.67 dB |
| 15.407(f)                                  | Radio frequency radiation exposure requirement.                                                                                                                                      | PASSED         | Refer to MPE Calculations                                                                                                        |
| 15.407(b)(6) 15.207                        | UNII devices using AC power line are required to comply with the conducted limits set forth in Section 15.207.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                                                            |



2.0 Summary Of Test Results (Continued)

**802.11a Mode (5150-5350 MHz) Chain B**

| <b>EMISSIONS STANDARD</b>                  |                                                                                                                                                                                      |                |                                                                                                                                  |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>FCC Part 15 Section</b>                 | <b>Description</b>                                                                                                                                                                   | <b>Results</b> | <b>Comments</b>                                                                                                                  |
| <b>Operation in the 5.15-5.25 GHz Band</b> |                                                                                                                                                                                      |                |                                                                                                                                  |
| 15.407(d)                                  | Any UNII device shall use a transmitting antenna that is an integral part of the device.                                                                                             | PASSED         | The antenna will be integral when installed in a notebook computer                                                               |
| 15.407(e)                                  | UNII devices will be restricted to indoor operations.                                                                                                                                | PASSED         | Refer to "User's Manual" Exhibit                                                                                                 |
| 15.407(a)(1)                               | 26dB emissions bandwidth in MHz.                                                                                                                                                     | N/A            | 5.18 GHz = 25.33 MHz<br>5.20 GHz = 30.08 MHz<br>5.24 GHz = 32.17 MHz                                                             |
| 15.407(a)(1)                               | Maximum Conducted Output Power shall not exceed the lesser of 50mW or 4dBm+10logB (where B = 26dB emissions bandwidth).                                                              | PASSED         | 5.18 GHz = 16.64dBm (46.17mW)<br>5.20 GHz = 16.74dBm (47.25mW)<br>5.24 GHz = 16.84dBm (48.35mW)                                  |
| 15.407(a)(1)                               | The peak power spectral density shall not exceed 4dBm in any 1MHz band.                                                                                                              | PASSED         | 5.18 GHz = 1.786dBm<br>5.20 GHz = 1.965dBm<br>5.24 GHz = 1.975dBm                                                                |
| 15.407(a)(1)                               | Maximum Conducted Output Power and the peak power spectral density shall be reduced by the amount in dB that the transmitting antenna exceeds 6dBi.                                  | N/A            | All antennas tested have less than 6dBi antenna gain (Please see the antenna data sheets)                                        |
| 15.407(b)(6)<br>15.209                     | Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                                                            |
| 15.407(b)(1)                               | All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.                                                                                              | PASSED         | See Data Sheets                                                                                                                  |
| <b>Operation in the 5.25-5.35 GHz Band</b> |                                                                                                                                                                                      |                |                                                                                                                                  |
| 15.407(a)(2)                               | 26dB emissions bandwidth in MHz.                                                                                                                                                     | N/A            | 5.26 GHz = 33.17 MHz<br>5.28 GHz = 32.58 MHz<br>5.32 GHz = 31.75 MHz                                                             |
| 15.407(a)(2)                               | Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).                                                            | PASSED         | 5.26 GHz = 16.64dBm (46.17mW)<br>5.28 GHz = 16.54dBm (45.12mW)<br>5.32 GHz = 16.54dBm (45.12mW)                                  |
| 15.407(a)(2)                               | The peak power spectral density shall not exceed 11dBm in any 1MHz band.                                                                                                             | PASSED         | 5.26 GHz = 2.165dBm<br>5.28 GHz = 2.105dBm<br>5.32 GHz = 1.870dBm                                                                |
| 15.407(a)(2)                               | Maximum Conducted Output Power and the peak power spectral density shall be reduced by the amount in dB that the transmitting antenna exceeds 6dBi.                                  | N/A            | All antennas tested have less than 6dBi antenna gain (Please see the antenna data sheets)                                        |
| 15.407(b)(6)<br>15.209                     | Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                                                            |
| 15.407(b)(2)                               | All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz. Must meet all applicable technical requirements for operating in the 5.15-5.25 GHz band.     | PASSED         | See Data Sheets                                                                                                                  |
| <b>General Requirements For All Bands</b>  |                                                                                                                                                                                      |                |                                                                                                                                  |
| 15.407(a)(6)                               | The ratio of the peak excursion of the modulation envelope to the peak transmit power shall not exceed 13dB across any 1 MHz bandwidth or the emissions bandwidth whichever is less. | PASSED         | 5.18 GHz = 5.16 dB<br>5.20 GHz = 6.00 dB<br>5.24 GHz = 5.33 dB<br>5.26 GHz = 6.34 dB<br>5.28 GHz = 5.50 dB<br>5.32 GHz = 6.33 dB |
| 15.407(f)                                  | Radio frequency radiation exposure requirement.                                                                                                                                      | PASSED         | Refer to MPE Calculations                                                                                                        |
| 15.407(b)(6)<br>15.207                     | UNII devices using AC power line are required to comply with the conducted limits set forth in Section 15.207.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                                                            |



2.0 Summary Of Test Results (Continued)

**802.11n Mode 20MHz Wide (5150-5350 MHz) Chain A**

| <b>EMISSIONS STANDARD</b>                  |                                                                                                                                                                                      |                |                                                                                                                                  |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>FCC Part 15 Section</b>                 | <b>Description</b>                                                                                                                                                                   | <b>Results</b> | <b>Comments</b>                                                                                                                  |
| <b>Operation in the 5.15-5.25 GHz Band</b> |                                                                                                                                                                                      |                |                                                                                                                                  |
| 15.407(d)                                  | Any UNII device shall use a transmitting antenna that is an integral part of the device.                                                                                             | PASSED         | The antenna will be integral when installed in a notebook computer                                                               |
| 15.407(e)                                  | UNII devices will be restricted to indoor operations.                                                                                                                                | PASSED         | Refer to "User's Manual" Exhibit                                                                                                 |
| 15.407(a)(1)                               | 26dB emissions bandwidth in MHz.                                                                                                                                                     | N/A            | 5.18 GHz = 27.25 MHz<br>5.20 GHz = 30.08 MHz<br>5.24 GHz = 29.00 MHz                                                             |
| 15.407(a)(1)                               | Maximum Conducted Output Power shall not exceed the lesser of 50mW or 4dBm+10logB (where B = 26dB emissions bandwidth).                                                              | PASSED         | 5.18 GHz = 16.74dBm (47.25mW)<br>5.20 GHz = 16.74dBm (47.25mW)<br>5.24 GHz = 16.84dBm (48.35mW)                                  |
| 15.407(a)(1)                               | The peak power spectral density shall not exceed 4dBm in any 1MHz band.                                                                                                              | PASSED         | 5.18 GHz = 2.101dBm<br>5.20 GHz = 1.396dBm<br>5.24 GHz = 1.188dBm                                                                |
| 15.407(a)(1)                               | Maximum Conducted Output Power and the peak power spectral density shall be reduced by the amount in dB that the transmitting antenna exceeds 6dBi.                                  | N/A            | All antennas tested have less than 6dBi antenna gain (Please see the antenna data sheets)                                        |
| 15.407(b)(6) 15.209                        | Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                                                            |
| 15.407(b)(1)                               | All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.                                                                                              | PASSED         | See Data Sheets                                                                                                                  |
| <b>Operation in the 5.25-5.35 GHz Band</b> |                                                                                                                                                                                      |                |                                                                                                                                  |
| 15.407(a)(2)                               | 26dB emissions bandwidth in MHz.                                                                                                                                                     | N/A            | 5.26 GHz = 27.83 MHz<br>5.28 GHz = 27.58 MHz<br>5.32 GHz = 28.50 MHz                                                             |
| 15.407(a)(2)                               | Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).                                                            | PASSED         | 5.26 GHz = 16.84dBm (48.35mW)<br>5.28 GHz = 16.54dBm (45.12mW)<br>5.32 GHz = 16.64dBm (46.17mW)                                  |
| 15.407(a)(2)                               | The peak power spectral density shall not exceed 11dBm in any 1MHz band.                                                                                                             | PASSED         | 5.26 GHz = 1.475dBm<br>5.28 GHz = 1.447dBm<br>5.32 GHz = 1.788dBm                                                                |
| 15.407(a)(2)                               | Maximum Conducted Output Power and the peak power spectral density shall be reduced by the amount in dB that the transmitting antenna exceeds 6dBi.                                  | N/A            | All antennas tested have less than 6dBi antenna gain (Please see the antenna data sheets)                                        |
| 15.407(b)(6) 15.209                        | Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                                                            |
| 15.407(b)(2)                               | All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz. Must meet all applicable technical requirements for operating in the 5.15-5.25 GHz band.     | PASSED         | See Data Sheets                                                                                                                  |
| <b>General Requirements For All Bands</b>  |                                                                                                                                                                                      |                |                                                                                                                                  |
| 15.407(a)(6)                               | The ratio of the peak excursion of the modulation envelope to the peak transmit power shall not exceed 13dB across any 1 MHz bandwidth or the emissions bandwidth whichever is less. | PASSED         | 5.18 GHz = 5.50 dB<br>5.20 GHz = 5.34 dB<br>5.24 GHz = 5.50 dB<br>5.26 GHz = 5.50 dB<br>5.28 GHz = 6.16 dB<br>5.32 GHz = 5.34 dB |
| 15.407(f)                                  | Radio frequency radiation exposure requirement.                                                                                                                                      | PASSED         | Refer to MPE Calculations                                                                                                        |
| 15.407(b)(6) 15.207                        | UNII devices using AC power line are required to comply with the conducted limits set forth in Section 15.207.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                                                            |



2.0 Summary Of Test Results (Continued)

**802.11n Mode 20MHz Wide (5150-5350 MHz) Chain B**

| <b>EMISSIONS STANDARD</b>                  |                                                                                                                                                                                      |                |                                                                                                                                  |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>FCC Part 15 Section</b>                 | <b>Description</b>                                                                                                                                                                   | <b>Results</b> | <b>Comments</b>                                                                                                                  |
| <b>Operation in the 5.15-5.25 GHz Band</b> |                                                                                                                                                                                      |                |                                                                                                                                  |
| 15.407(d)                                  | Any UNII device shall use a transmitting antenna that is an integral part of the device.                                                                                             | PASSED         | The antenna will be integral when installed in a notebook computer                                                               |
| 15.407(e)                                  | UNII devices will be restricted to indoor operations.                                                                                                                                | PASSED         | Refer to "User's Manual" Exhibit                                                                                                 |
| 15.407(a)(1)                               | 26dB emissions bandwidth in MHz.                                                                                                                                                     | N/A            | 5.18 GHz = 29.58 MHz<br>5.20 GHz = 28.00 MHz<br>5.24 GHz = 26.83 MHz                                                             |
| 15.407(a)(1)                               | Maximum Conducted Output Power shall not exceed the lesser of 50mW or 4dBm+10logB (where B = 26dB emissions bandwidth).                                                              | PASSED         | 5.18 GHz = 16.64dBm (46.17mW)<br>5.20 GHz = 16.54dBm (45.12mW)<br>5.24 GHz = 16.84dBm (48.35mW)                                  |
| 15.407(a)(1)                               | The peak power spectral density shall not exceed 4dBm in any 1MHz band.                                                                                                              | PASSED         | 5.18 GHz = 2.522dBm<br>5.20 GHz = 1.702dBm<br>5.24 GHz = 1.928dBm                                                                |
| 15.407(a)(1)                               | Maximum Conducted Output Power and the peak power spectral density shall be reduced by the amount in dB that the transmitting antenna exceeds 6dBi.                                  | N/A            | All antennas tested have less than 6dBi antenna gain (Please see the antenna data sheets)                                        |
| 15.407(b)(6) 15.209                        | Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                                                            |
| 15.407(b)(1)                               | All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.                                                                                              | PASSED         | See Data Sheets                                                                                                                  |
| <b>Operation in the 5.25-5.35 GHz Band</b> |                                                                                                                                                                                      |                |                                                                                                                                  |
| 15.407(a)(2)                               | 26dB emissions bandwidth in MHz.                                                                                                                                                     | N/A            | 5.26 GHz = 28.33 MHz<br>5.28 GHz = 29.58 MHz<br>5.32 GHz = 30.42 MHz                                                             |
| 15.407(a)(2)                               | Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).                                                            | PASSED         | 5.26 GHz = 16.54dBm (45.12mW)<br>5.28 GHz = 16.84dBm (48.35mW)<br>5.32 GHz = 16.84dBm (48.35mW)                                  |
| 15.407(a)(2)                               | The peak power spectral density shall not exceed 11dBm in any 1MHz band.                                                                                                             | PASSED         | 5.26 GHz = 1.335dBm<br>5.28 GHz = 2.038dBm<br>5.32 GHz = 1.957dBm                                                                |
| 15.407(a)(2)                               | Maximum Conducted Output Power and the peak power spectral density shall be reduced by the amount in dB that the transmitting antenna exceeds 6dBi.                                  | N/A            | All antennas tested have less than 6dBi antenna gain (Please see the antenna data sheets)                                        |
| 15.407(b)(6) 15.209                        | Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                                                            |
| 15.407(b)(2)                               | All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz. Must meet all applicable technical requirements for operating in the 5.15-5.25 GHz band.     | PASSED         | See Data Sheets                                                                                                                  |
| <b>General Requirements For All Bands</b>  |                                                                                                                                                                                      |                |                                                                                                                                  |
| 15.407(a)(6)                               | The ratio of the peak excursion of the modulation envelope to the peak transmit power shall not exceed 13dB across any 1 MHz bandwidth or the emissions bandwidth whichever is less. | PASSED         | 5.18 GHz = 6.00 dB<br>5.20 GHz = 5.34 dB<br>5.24 GHz = 6.33 dB<br>5.26 GHz = 5.34 dB<br>5.28 GHz = 5.50 dB<br>5.32 GHz = 5.66 dB |
| 15.407(f)                                  | Radio frequency radiation exposure requirement.                                                                                                                                      | PASSED         | Refer to MPE Calculations                                                                                                        |
| 15.407(b)(6) 15.207                        | UNII devices using AC power line are required to comply with the conducted limits set forth in Section 15.207.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                                                            |



2.0 Summary Of Test Results (Continued)

**802.11n Mode 40MHz Wide (5150-5350 MHz) Chain A**

| <b>EMISSIONS STANDARD</b>                  |                                                                                                                                                                                      |                |                                                                                           |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------|
| <b>FCC Part 15 Section</b>                 | <b>Description</b>                                                                                                                                                                   | <b>Results</b> | <b>Comments</b>                                                                           |
| <b>Operation in the 5.15-5.25 GHz Band</b> |                                                                                                                                                                                      |                |                                                                                           |
| 15.407(d)                                  | Any UNII device shall use a transmitting antenna that is an integral part of the device.                                                                                             | PASSED         | The antenna will be integral when installed in a notebook computer                        |
| 15.407(e)                                  | UNII devices will be restricted to indoor operations.                                                                                                                                | PASSED         | Refer to "User's Manual" Exhibit                                                          |
| 15.407(a)(1)                               | 26dB emissions bandwidth in MHz.                                                                                                                                                     | N/A            | 5.19 GHz = 41.00 MHz<br>5.23 GHz = 43.00 MHz                                              |
| 15.407(a)(1)                               | Maximum Conducted Output Power shall not exceed the lesser of 50mW or 4dBm+10logB (where B = 26dB emissions bandwidth).                                                              | PASSED         | 5.19 GHz = 16.89dBm (48.84mW)<br>5.23 GHz = 16.69dBm (46.64mW)                            |
| 15.407(a)(1)                               | The peak power spectral density shall not exceed 4dBm in any 1MHz band.                                                                                                              | PASSED         | 5.19 GHz = -1.037dBm<br>5.23 GHz = -1.325dBm                                              |
| 15.407(a)(1)                               | Maximum Conducted Output Power and the peak power spectral density shall be reduced by the amount in dB that the transmitting antenna exceeds 6dBi.                                  | N/A            | All antennas tested have less than 6dBi antenna gain (Please see the antenna data sheets) |
| 15.407(b)(6)<br>15.209                     | Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                     |
| 15.407(b)(1)                               | All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.                                                                                              | PASSED         | See Data Sheets                                                                           |
| <b>Operation in the 5.25-5.35 GHz Band</b> |                                                                                                                                                                                      |                |                                                                                           |
| 15.407(a)(2)                               | 26dB emissions bandwidth in MHz.                                                                                                                                                     | N/A            | 5.27 GHz = 41.00 MHz<br>5.31 GHz = 40.33 MHz                                              |
| 15.407(a)(2)                               | Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).                                                            | PASSED         | 5.27 GHz = 16.69dBm (46.64mW)<br>5.31 GHz = 16.79dBm (47.73mW)                            |
| 15.407(a)(2)                               | The peak power spectral density shall not exceed 11dBm in any 1MHz band.                                                                                                             | PASSED         | 5.27 GHz = -1.207dBm<br>5.31 GHz = -1.032dBm                                              |
| 15.407(a)(2)                               | Maximum Conducted Output Power and the peak power spectral density shall be reduced by the amount in dB that the transmitting antenna exceeds 6dBi.                                  | N/A            | All antennas tested have less than 6dBi antenna gain (Please see the antenna data sheets) |
| 15.407(b)(6)<br>15.209                     | Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                     |
| 15.407(b)(2)                               | All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz. Must meet all applicable technical requirements for operating in the 5.15-5.25 GHz band.     | PASSED         | See Data Sheets                                                                           |
| <b>General Requirements For All Bands</b>  |                                                                                                                                                                                      |                |                                                                                           |
| 15.407(a)(6)                               | The ratio of the peak excursion of the modulation envelope to the peak transmit power shall not exceed 13dB across any 1 MHz bandwidth or the emissions bandwidth whichever is less. | PASSED         | 5.19 GHz = 5.66 dB<br>5.23 GHz = 5.17 dB<br>5.27 GHz = 5.33 dB<br>5.31 GHz = 5.67 dB      |
| 15.407(f)                                  | Radio frequency radiation exposure requirement.                                                                                                                                      | PASSED         | Refer to MPE Calculations                                                                 |
| 15.407(b)(6)<br>15.207                     | UNII devices using AC power line are required to comply with the conducted limits set forth in Section 15.207.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                     |



2.0 Summary Of Test Results (Continued)

**802.11n Mode 40MHz Wide (5150-5350 MHz) Chain B**

| <b>EMISSIONS STANDARD</b>                  |                                                                                                                                                                                      |                |                                                                                           |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------|
| <b>FCC Part 15 Section</b>                 | <b>Description</b>                                                                                                                                                                   | <b>Results</b> | <b>Comments</b>                                                                           |
| <b>Operation in the 5.15-5.25 GHz Band</b> |                                                                                                                                                                                      |                |                                                                                           |
| 15.407(d)                                  | Any UNII device shall use a transmitting antenna that is an integral part of the device.                                                                                             | PASSED         | The antenna will be integral when installed in a notebook computer                        |
| 15.407(e)                                  | UNII devices will be restricted to indoor operations.                                                                                                                                | PASSED         | Refer to "User's Manual" Exhibit                                                          |
| 15.407(a)(1)                               | 26dB emissions bandwidth in MHz.                                                                                                                                                     | N/A            | 5.19 GHz = 37.50 MHz<br>5.23 GHz = 38.42 MHz                                              |
| 15.407(a)(1)                               | Maximum Conducted Output Power shall not exceed the lesser of 50mW or 4dBm+10logB (where B = 26dB emissions bandwidth).                                                              | PASSED         | 5.19 GHz = 16.79dBm (47.73mW)<br>5.23 GHz = 16.89dBm (48.84mW)                            |
| 15.407(a)(1)                               | The peak power spectral density shall not exceed 4dBm in any 1MHz band.                                                                                                              | PASSED         | 5.19 GHz = -2.065dBm<br>5.23 GHz = -2.320dBm                                              |
| 15.407(a)(1)                               | Maximum Conducted Output Power and the peak power spectral density shall be reduced by the amount in dB that the transmitting antenna exceeds 6dBi.                                  | N/A            | All antennas tested have less than 6dBi antenna gain (Please see the antenna data sheets) |
| 15.407(b)(6)<br>15.209                     | Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                     |
| 15.407(b)(1)                               | All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.                                                                                              | PASSED         | See Data Sheets                                                                           |
| <b>Operation in the 5.25-5.35 GHz Band</b> |                                                                                                                                                                                      |                |                                                                                           |
| 15.407(a)(2)                               | 26dB emissions bandwidth in MHz.                                                                                                                                                     | N/A            | 5.27 GHz = 38.50 MHz<br>5.31 GHz = 39.58 MHz                                              |
| 15.407(a)(2)                               | Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).                                                            | PASSED         | 5.27 GHz = 16.89dBm (48.84mW)<br>5.31 GHz = 16.89dBm (48.84mW)                            |
| 15.407(a)(2)                               | The peak power spectral density shall not exceed 11dBm in any 1MHz band.                                                                                                             | PASSED         | 5.27 GHz = -1.322dBm<br>5.31 GHz = -1.276dBm                                              |
| 15.407(a)(2)                               | Maximum Conducted Output Power and the peak power spectral density shall be reduced by the amount in dB that the transmitting antenna exceeds 6dBi.                                  | N/A            | All antennas tested have less than 6dBi antenna gain (Please see the antenna data sheets) |
| 15.407(b)(6)<br>15.209                     | Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                     |
| 15.407(b)(2)                               | All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz. Must meet all applicable technical requirements for operating in the 5.15-5.25 GHz band.     | PASSED         | See Data Sheets                                                                           |
| <b>General Requirements For All Bands</b>  |                                                                                                                                                                                      |                |                                                                                           |
| 15.407(a)(6)                               | The ratio of the peak excursion of the modulation envelope to the peak transmit power shall not exceed 13dB across any 1 MHz bandwidth or the emissions bandwidth whichever is less. | PASSED         | 5.19 GHz = 5.33 dB<br>5.23 GHz = 5.50 dB<br>5.27 GHz = 5.67 dB<br>5.31 GHz = 5.50 dB      |
| 15.407(f)                                  | Radio frequency radiation exposure requirement.                                                                                                                                      | PASSED         | Refer to MPE Calculations                                                                 |
| 15.407(b)(6)<br>15.207                     | UNII devices using AC power line are required to comply with the conducted limits set forth in Section 15.207.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                     |



2.0 Summary Of Test Results (Continued)

**802.11a Mode (5470-5725 MHz) Chain A**

| <b>EMISSIONS STANDARD</b>                 |                                                                                                                                                                                      |                |                                                                                                 |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------|
| <b>FCC Part 15 Section</b>                | <b>Description</b>                                                                                                                                                                   | <b>Results</b> | <b>Comments</b>                                                                                 |
| 15.407(a)(2)                              | 26dB emissions bandwidth in MHz.                                                                                                                                                     | N/A            | 5.50 GHz = 25.33 MHz<br>5.60 GHz = 29.75 MHz<br>5.70 GHz = 27.42 MHz                            |
| 15.407(a)(2)                              | Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).                                                            | PASSED         | 5.50 GHz = 16.54dBm (45.12mW)<br>5.60 GHz = 16.84dBm (48.35mW)<br>5.70 GHz = 16.64dBm (46.17mW) |
| 15.407(a)(2)                              | The peak power spectral density shall not exceed 11dBm in any 1MHz band.                                                                                                             | PASSED         | 5.50 GHz = 2.223dBm<br>5.60 GHz = 2.170dBm<br>5.70 GHz = 2.045dBm                               |
| 15.407(a)(2)                              | Maximum Conducted Output Power and the peak power spectral density shall be reduced by the amount in dB that the transmitting antenna exceeds 6dBi.                                  | N/A            | All antennas tested have less than 6dBi antenna gain (Please see the antenna data sheets)       |
| 15.407(b)(6)<br>15.209                    | Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                           |
| 15.407(b)(3)                              | For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.                                      | PASSED         | See Data Sheets                                                                                 |
| <b>General Requirements For All Bands</b> |                                                                                                                                                                                      |                |                                                                                                 |
| 15.407(a)(6)                              | The ratio of the peak excursion of the modulation envelope to the peak transmit power shall not exceed 13dB across any 1 MHz bandwidth or the emissions bandwidth whichever is less. | PASSED         | 5.50 GHz = 5.83 dB<br>5.60 GHz = 5.50 dB<br>5.70 GHz = 5.33 dB                                  |
| 15.407(f)                                 | Radio frequency radiation exposure requirement.                                                                                                                                      | PASSED         | Refer to MPE Calculations                                                                       |
| 15.407(b)(6)<br>15.207                    | UNII devices using AC power line are required to comply with the conducted limits set forth in Section 15.207.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                           |



2.0 Summary Of Test Results (Continued)

**802.11a Mode (5470-5725 MHz) Chain B**

| <b>EMISSIONS STANDARD</b>                 |                                                                                                                                                                                      |                |                                                                                                 |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------|
| <b>FCC Part 15 Section</b>                | <b>Description</b>                                                                                                                                                                   | <b>Results</b> | <b>Comments</b>                                                                                 |
| 15.407(a)(2)                              | 26dB emissions bandwidth in MHz.                                                                                                                                                     | N/A            | 5.50 GHz = 33.50 MHz<br>5.60 GHz = 34.00 MHz<br>5.70 GHz = 34.42 MHz                            |
| 15.407(a)(2)                              | Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).                                                            | PASSED         | 5.50 GHz = 16.74dBm (47.25mW)<br>5.60 GHz = 16.74dBm (47.25mW)<br>5.70 GHz = 16.84dBm (48.35mW) |
| 15.407(a)(2)                              | The peak power spectral density shall not exceed 11dBm in any 1MHz band.                                                                                                             | PASSED         | 5.50 GHz = 2.331dBm<br>5.60 GHz = 2.676dBm<br>5.70 GHz = 2.234dBm                               |
| 15.407(a)(2)                              | Maximum Conducted Output Power and the peak power spectral density shall be reduced by the amount in dB that the transmitting antenna exceeds 6dBi.                                  | N/A            | All antennas tested have less than 6dBi antenna gain (Please see the antenna data sheets)       |
| 15.407(b)(6)<br>15.209                    | Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                           |
| 15.407(b)(3)                              | For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.                                      | PASSED         | See Data Sheets                                                                                 |
| <b>General Requirements For All Bands</b> |                                                                                                                                                                                      |                |                                                                                                 |
| 15.407(a)(6)                              | The ratio of the peak excursion of the modulation envelope to the peak transmit power shall not exceed 13dB across any 1 MHz bandwidth or the emissions bandwidth whichever is less. | PASSED         | 5.50 GHz = 5.50 dB<br>5.60 GHz = 5.16 dB<br>5.70 GHz = 5.33 dB                                  |
| 15.407(f)                                 | Radio frequency radiation exposure requirement.                                                                                                                                      | PASSED         | Refer to MPE Calculations                                                                       |
| 15.407(b)(6)<br>15.207                    | UNII devices using AC power line are required to comply with the conducted limits set forth in Section 15.207.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                           |



2.0 Summary Of Test Results (Continued)

**802.11n Mode 20MHz Wide (5470-5725 MHz) Chain A**

| <b>EMISSIONS STANDARD</b>                 |                                                                                                                                                                                      |                |                                                                                                 |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------|
| <b>FCC Part 15 Section</b>                | <b>Description</b>                                                                                                                                                                   | <b>Results</b> | <b>Comments</b>                                                                                 |
| 15.407(a)(2)                              | 26dB emissions bandwidth in MHz.                                                                                                                                                     | N/A            | 5.50 GHz = 29.92 MHz<br>5.60 GHz = 27.08 MHz<br>5.70 GHz = 29.08 MHz                            |
| 15.407(a)(2)                              | Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).                                                            | PASSED         | 5.50 GHz = 16.84dBm (48.35mW)<br>5.60 GHz = 16.54dBm (45.12mW)<br>5.70 GHz = 16.74dBm (47.25mW) |
| 15.407(a)(2)                              | The peak power spectral density shall not exceed 11dBm in any 1MHz band.                                                                                                             | PASSED         | 5.50 GHz = 2.159dBm<br>5.60 GHz = 1.085dBm<br>5.70 GHz = 1.149dBm                               |
| 15.407(a)(2)                              | Maximum Conducted Output Power and the peak power spectral density shall be reduced by the amount in dB that the transmitting antenna exceeds 6dBi.                                  | N/A            | All antennas tested have less than 6dBi antenna gain (Please see the antenna data sheets)       |
| 15.407(b)(6) 15.209                       | Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                           |
| 15.407(b)(3)                              | For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.                                      | PASSED         | See Data Sheets                                                                                 |
| <b>General Requirements For All Bands</b> |                                                                                                                                                                                      |                |                                                                                                 |
| 15.407(a)(6)                              | The ratio of the peak excursion of the modulation envelope to the peak transmit power shall not exceed 13dB across any 1 MHz bandwidth or the emissions bandwidth whichever is less. | PASSED         | 5.50 GHz = 6.00 dB<br>5.60 GHz = 5.66 dB<br>5.70 GHz = 5.17 dB                                  |
| 15.407(f)                                 | Radio frequency radiation exposure requirement.                                                                                                                                      | PASSED         | Refer to MPE Calculations                                                                       |
| 15.407(b)(6) 15.207                       | UNII devices using AC power line are required to comply with the conducted limits set forth in Section 15.207.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                           |

## 2.0 Summary Of Test Results (Continued)

**802.11n Mode 20MHz Wide (5470-5725 MHz) Chain B**

| <b>EMISSIONS STANDARD</b>                 |                                                                                                                                                                                      |                |                                                                                                 |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------|
| <b>FCC Part 15 Section</b>                | <b>Description</b>                                                                                                                                                                   | <b>Results</b> | <b>Comments</b>                                                                                 |
| 15.407(a)(2)                              | 26dB emissions bandwidth in MHz.                                                                                                                                                     | N/A            | 5.50 GHz = 32.08 MHz<br>5.60 GHz = 36.42 MHz<br>5.70 GHz = 35.42 MHz                            |
| 15.407(a)(2)                              | Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).                                                            | PASSED         | 5.50 GHz = 16.94dBm (49.47mW)<br>5.60 GHz = 16.74dBm (47.25mW)<br>5.70 GHz = 16.74dBm (47.25mW) |
| 15.407(a)(2)                              | The peak power spectral density shall not exceed 11dBm in any 1MHz band.                                                                                                             | PASSED         | 5.50 GHz = 2.201dBm<br>5.60 GHz = 1.827dBm<br>5.70 GHz = 2.001dBm                               |
| 15.407(a)(2)                              | Maximum Conducted Output Power and the peak power spectral density shall be reduced by the amount in dB that the transmitting antenna exceeds 6dBi.                                  | N/A            | All antennas tested have less than 6dBi antenna gain (Please see the antenna data sheets)       |
| 15.407(b)(6)<br>15.209                    | Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                           |
| 15.407(b)(3)                              | For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.                                      | PASSED         | See Data Sheets                                                                                 |
| <b>General Requirements For All Bands</b> |                                                                                                                                                                                      |                |                                                                                                 |
| 15.407(a)(6)                              | The ratio of the peak excursion of the modulation envelope to the peak transmit power shall not exceed 13dB across any 1 MHz bandwidth or the emissions bandwidth whichever is less. | PASSED         | 5.50 GHz = 5.50 dB<br>5.60 GHz = 5.83 dB<br>5.70 GHz = 5.50 dB                                  |
| 15.407(f)                                 | Radio frequency radiation exposure requirement.                                                                                                                                      | PASSED         | Refer to MPE Calculations                                                                       |
| 15.407(b)(6)<br>15.207                    | UNII devices using AC power line are required to comply with the conducted limits set forth in Section 15.207.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                           |



2.0 Summary Of Test Results (Continued)

**802.11n Mode 40MHz Wide (5470-5725 MHz) Chain A**

| <b>EMISSIONS STANDARD</b>                 |                                                                                                                                                                                      |                |                                                                                                 |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------|
| <b>FCC Part 15 Section</b>                | <b>Description</b>                                                                                                                                                                   | <b>Results</b> | <b>Comments</b>                                                                                 |
| 15.407(a)(2)                              | 26dB emissions bandwidth in MHz.                                                                                                                                                     | N/A            | 5.51 GHz = 44.75 MHz<br>5.59 GHz = 42.83 MHz<br>5.67 GHz = 44.50 MHz                            |
| 15.407(a)(2)                              | Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).                                                            | PASSED         | 5.51 GHz = 16.79dBm (47.73mW)<br>5.59 GHz = 16.69dBm (46.64mW)<br>5.67 GHz = 16.59dBm (45.58mW) |
| 15.407(a)(2)                              | The peak power spectral density shall not exceed 11dBm in any 1MHz band.                                                                                                             | PASSED         | 5.51 GHz = -0.729dBm<br>5.59 GHz = -1.329dBm<br>5.67 GHz = -1.175dBm                            |
| 15.407(a)(2)                              | Maximum Conducted Output Power and the peak power spectral density shall be reduced by the amount in dB that the transmitting antenna exceeds 6dBi.                                  | N/A            | All antennas tested have less than 6dBi antenna gain (Please see the antenna data sheets)       |
| 15.407(b)(6)<br>15.209                    | Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                           |
| 15.407(b)(3)                              | For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.                                      | PASSED         | See Data Sheets                                                                                 |
| <b>General Requirements For All Bands</b> |                                                                                                                                                                                      |                |                                                                                                 |
| 15.407(a)(6)                              | The ratio of the peak excursion of the modulation envelope to the peak transmit power shall not exceed 13dB across any 1 MHz bandwidth or the emissions bandwidth whichever is less. | PASSED         | 5.51 GHz = 5.67 dB<br>5.59 GHz = 5.83 dB<br>5.67 GHz = 5.50 dB                                  |
| 15.407(f)                                 | Radio frequency radiation exposure requirement.                                                                                                                                      | PASSED         | Refer to MPE Calculations                                                                       |
| 15.407(b)(6)<br>15.207                    | UNII devices using AC power line are required to comply with the conducted limits set forth in Section 15.207.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                           |



## 2.0 Summary Of Test Results (Continued)

**802.11n Mode 40MHz Wide (5470-5725 MHz) Chain B**

| <b>EMISSIONS STANDARD</b>                 |                                                                                                                                                                                      |                |                                                                                                 |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------|
| <b>FCC Part 15 Section</b>                | <b>Description</b>                                                                                                                                                                   | <b>Results</b> | <b>Comments</b>                                                                                 |
| 15.407(a)(2)                              | 26dB emissions bandwidth in MHz.                                                                                                                                                     | N/A            | 5.51 GHz = 42.83 MHz<br>5.59 GHz = 43.42 MHz<br>5.67 GHz = 43.50 MHz                            |
| 15.407(a)(2)                              | Maximum Conducted Output Power shall not exceed the lesser of 250mW or 11dBm+10logB (where B = 26dB emissions bandwidth).                                                            | PASSED         | 5.51 GHz = 16.89dBm (48.84mW)<br>5.59 GHz = 16.59dBm (45.58mW)<br>5.67 GHz = 16.69dBm (46.64mW) |
| 15.407(a)(2)                              | The peak power spectral density shall not exceed 11dBm in any 1MHz band.                                                                                                             | PASSED         | 5.51 GHz = -1.457dBm<br>5.59 GHz = -0.866dBm<br>5.67 GHz = -1.191dBm                            |
| 15.407(a)(2)                              | Maximum Conducted Output Power and the peak power spectral density shall be reduced by the amount in dB that the transmitting antenna exceeds 6dBi.                                  | N/A            | All antennas tested have less than 6dBi antenna gain (Please see the antenna data sheets)       |
| 15.407(b)(6)<br>15.209                    | Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                           |
| 15.407(b)(3)                              | For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.                                      | PASSED         | See Data Sheets                                                                                 |
| <b>General Requirements For All Bands</b> |                                                                                                                                                                                      |                |                                                                                                 |
| 15.407(a)(6)                              | The ratio of the peak excursion of the modulation envelope to the peak transmit power shall not exceed 13dB across any 1 MHz bandwidth or the emissions bandwidth whichever is less. | PASSED         | 5.51 GHz = 5.67 dB<br>5.59 GHz = 5.50 dB<br>5.67 GHz = 5.83 dB                                  |
| 15.407(f)                                 | Radio frequency radiation exposure requirement.                                                                                                                                      | PASSED         | Refer to MPE Calculations                                                                       |
| 15.407(b)(6)<br>15.207                    | UNII devices using AC power line are required to comply with the conducted limits set forth in Section 15.207.                                                                       | PASSED         | See FCC 15.247 report (INTEL-090601F)                                                           |

**ANALYSIS AND CONCLUSIONS**

Based upon the measurement results we find that this equipment is within the limits of the global standards listed on the cover page of this test report. All results are based on a test of one sample. If any significant changes are made to the unit, the changes shall be evaluated and a retest may be required.

## Approval Signatories

**Report Completed By:**

**Johnny Candelas** 9/10/2009  
Senior Test Engineer  
Aegis Labs, Inc.

**Report Approved By:**

**Rick Candelas** 9/10/2009  
Quality Assurance  
Aegis Labs, Inc.



### 3.0 ADMINISTRATIVE DATA AND TEST DESCRIPTION

|                                      |                                                                                                                                                                                                                                                                  |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DEVICE TESTED:</b>                | ITE Type: Intel® Centrino® Ultimate-N 6200<br>Model Number(s): 622ANHMW<br>Serial Number: 0015005A3C7C<br>FCC ID: PD9622ANH                                                                                                                                      |
| <b>DATE EUT RECEIVED:</b>            | June 18 <sup>th</sup> , 2009                                                                                                                                                                                                                                     |
| <b>TEST DATE(S):</b>                 | July 21 <sup>st</sup> – Sept 4 <sup>th</sup> , 2009                                                                                                                                                                                                              |
| <b>ORIGIN OF TEST SAMPLE(S):</b>     | Production                                                                                                                                                                                                                                                       |
| <b>EQUIPMENT CLASS:</b>              | EUT tested as CLASS B device                                                                                                                                                                                                                                     |
| <b>RESPONSIBLE PARTY:</b>            | Intel Corporation<br>2111 NE 25 <sup>th</sup> Avenue<br>Hillsboro, Oregon 97124                                                                                                                                                                                  |
| <b>CLIENT CONTACT:</b>               | Mr. Steve Hackett                                                                                                                                                                                                                                                |
| <b>MANUFACTURER:</b>                 | Intel Corporation                                                                                                                                                                                                                                                |
| <b>TEST LOCATION:</b>                | Aegis Labs, Inc.<br>32231 Trabuco Creek Road<br>Trabuco Canyon, CA 92678<br>Open Area Test Site #1 & #2                                                                                                                                                          |
| <b>ACCREDITATION CERTIFICATE(S):</b> | A2LA Certificate Number: 1111.01, Valid through February 10, 2010                                                                                                                                                                                                |
| <b>PURPOSE OF TEST:</b>              | To demonstrate compliance with the standards as described in Sections 1.0 & 2.0 of this report.                                                                                                                                                                  |
| <b>UNCERTAINTY BUDGET:</b>           | Proficiency Testing and Uncertainty Calculations for all tests indicated in this report have been conducted in accordance with ISO 17025: 2005 requirements Section 5.4.6, and 5.9. Uncertainty Budgets and Proficiency Test results available upon request.     |
| <b>STATEMENT OF CALIBRATION:</b>     | All accredited equipment calibrations were performed by Liberty Labs, Inc. and World Cal. with typical calibration uncertainty estimates derived from ISO Guide to the determination of uncertainties with a Coverage Factor of k=2 for 95% level of confidence. |

## 4.0 DESCRIPTION OF EUT CONFIGURATION

### 4.1 EUT Description

| <b>Equipment Under Test (EUT)</b>               |                                                                                                    |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Trade Name:</b>                              | Intel® Centrino® Ultimate-N 6200                                                                   |
| <b>Model Number:</b>                            | 622ANHMW                                                                                           |
| <b>Frequency Range:</b>                         | 802.11a = 5.15 – 5.35 GHz & 5.47 – 5.725<br>802.11n = 5.15 – 5.35 GHz & 5.47 – 5.725               |
| <b>Enclosure:</b>                               | The EUT contains its own shield made of aluminum approximately 2.5cm wide by 2cm deep by 2mm high. |
| <b>Transfer Rate:</b>                           | 6/36/54 Mbps for 802.11a mode<br>Up to 450 Mbps for 802.11n mode                                   |
| <b>Antenna Type:</b>                            | <u>Shanghai Universe Communication Electron Co., Ltd Antennas:</u><br>PIFA                         |
| <b>Antenna Gain (See Note 2):</b>               | 3.73dBi @ 5 GHz                                                                                    |
| <b>Transmit Output Power:</b>                   | Please see Appendix A (Data Sheets) for actual output power.                                       |
| <b>Power Supply:</b>                            | 3.3VDC from external source                                                                        |
| <b>Number of External Test Ports Exercised:</b> | 2 Antenna Ports (Chain A & B)                                                                      |

The Intel® Centrino® Ultimate-N 6200 is an embedded IEEE 802.11a/b/g/n wireless network adapter that operates in the 2.4 GHz and 5.0 GHz spectrum. The adapter is capable of delivering up to 450 Mbps Tx/Rx.

**NOTE 1:** For a more detailed description, please refer to the manufacture’s specifications or User’s Manual.

**NOTE 2:** The EUT was tested with a set of Shanghai Universe Communication Electron Co., Ltd Antennas. (Refer to the antenna information exhibits).

#### 4.2 EUT Configuration

The EUT was tested installed in the Mini PCI-E slot of an extender board which is then connected to the host computer. The EUT was then connected to a set of antennas via its Chain A & B antenna ports. Data for a set of Shanghai Universe Communication Electron Co., Ltd Antennas can be found in Appendix A (Data Sheets)

The low, middle, and high channels were tested in 802.11a, b, g, & n modes. Also, the EUT was tested once transmitting from each chain individually (Chain A & B) and then tested with all chains transmitting simultaneously (Chain AB). The EUT was placed in continuous transmit mode by a program provided by the manufacturer (*CRTU Version 5.15.36.0*).

#### 4.3 List of EUT, Sub-Assemblies and Host Equipment

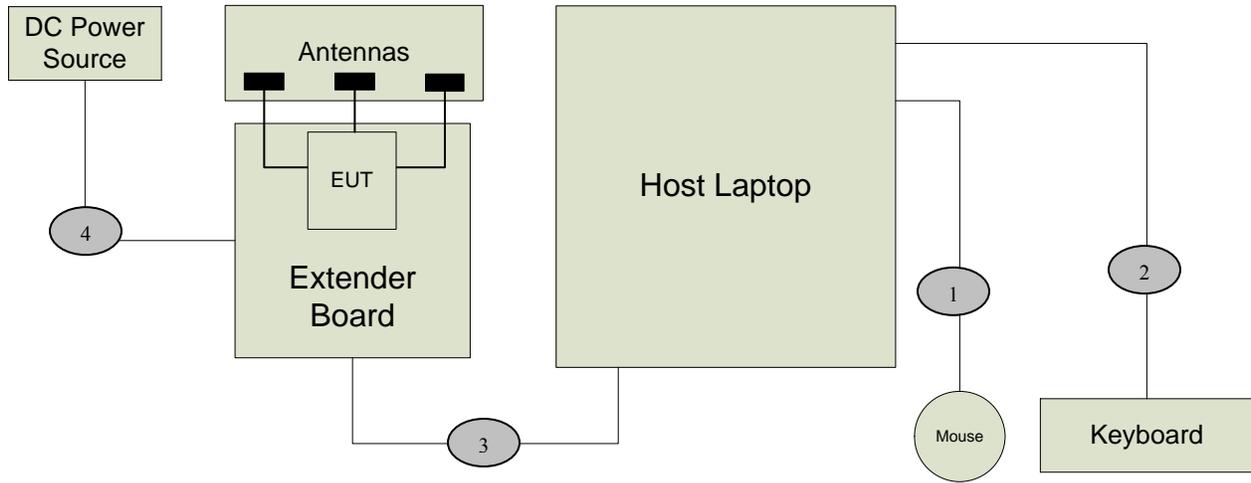
| <b>Equipment Under Test</b> |                                  |                             |                      |
|-----------------------------|----------------------------------|-----------------------------|----------------------|
| <b>Manufacturer</b>         | <b>Equipment Name</b>            | <b>Model or Part Number</b> | <b>Serial Number</b> |
| Intel Corporation           | Intel® Centrino® Ultimate-N 6200 | 622ANHMW                    | 0015005A3C7C         |

| <b>EUT Sub Assemblies</b>                        |                       |                             |                      |
|--------------------------------------------------|-----------------------|-----------------------------|----------------------|
| <b>Manufacturer</b>                              | <b>Equipment Name</b> | <b>Model or Part Number</b> | <b>Serial Number</b> |
| Shanghai Universe Communication Electron Co.,Ltd | Chain A Antenna       | SUC ANT S11                 | N/A                  |
|                                                  | Chain B Antenna       | SUC ANT S11                 | N/A                  |

| <b>HOST EQUIPMENT LIST</b> |                       |                             |                      |
|----------------------------|-----------------------|-----------------------------|----------------------|
| <b>Manufacturer</b>        | <b>Equipment Name</b> | <b>Model or Part Number</b> | <b>Serial Number</b> |
| Generic                    | Host Laptop           | ENG001                      | None                 |
| Protek                     | DC Power Source       | 3006B                       | AC2018               |
| Logitech                   | Keyboard              | Y-BF37                      | MCT25200581          |
| Logitech                   | Mouse                 | M-BJ58                      | LNA22802012          |

NOTE: All the power cords of the above support equipment are standard and non-shielded.

#### 4.4 I/O Cabling Diagram and Description



**Signal Line Cable Description**

| Cable | Length | Construction                 | Source Connector               | Destination Connector         | Bundled Length | Ferrite Attached | Note |
|-------|--------|------------------------------|--------------------------------|-------------------------------|----------------|------------------|------|
| 1     | 1.5m   | Round, Braid & Foil Shielded | Host Computer: USB Port        | Keyboard: Hardwired           | N/A            | N/A              | N/A  |
| 2     | 1.5m   | Round, Braid & Foil Shielded | Host Computer: USB Port        | Mouse: Hardwired              | N/A            | N/A              | N/A  |
| 3     | 0.5m   | Flat, Braid & Foil Shielded  | Extender Board: Mini PCIe slot | Host Laptop: Mini PCIe slot   | N/A            | N/A              | N/A  |
| 4     | 0.5m   | Round Un-shielded            | Extender Board: Power Input    | DC Power Source: Power Output | N/A            | N/A              | N/A  |



4.5 EMC Test Hardware and Software Measurement Equipment

| TEST EQUIPMENT LIST - Emissions          |                              |                      |               |                      |                               |
|------------------------------------------|------------------------------|----------------------|---------------|----------------------|-------------------------------|
| Equipment Name                           | Manufacturer                 | Model Number         | Serial Number | Calibration Due Date | Maintenance Calibration Cycle |
| Spectrum Analyzer                        | Agilent                      | 8565EC               | 3946A00245    | 07/24/10             | 1 Year                        |
| PSA Spectrum Analyzer                    | Agilent                      | E4440A               | MY46186811    | 07/02/11             | 2 Years                       |
| Antenna – Horn                           | ETS                          | 3117                 | 00057423      | 12/23/09             | 1 Year                        |
| Preamp                                   | Miteq                        | JS42-01001800-25-10P | 815980        | 12/23/09             | 1 Year                        |
| 30 Foot Coax                             | Semflex                      | S130SFBS10360        | 0619          | 07/26/10             | 1 Year                        |
| 5.15-5.35 GHz Notch Filter               | Microwave Circuits           | N0452502             | 3173-01       | NCR                  | NCR                           |
| Antenna - 18-26.5 GHz Pre-amplified Horn | Aegis Labs, Inc.             | H042                 | SLK-35-3W     | 02/08/10             | 1 Year                        |
| Antenna - 26.5-40 GHz Pre-amplified Horn | Aegis Labs, Inc.             | H028                 | GM1260-10     | 02/08/10             | 1 Year                        |
| EMI Receiver - RF Section                | Hewlett Packard              | 8546A                | 3325A00137    | 04/26/10             | 1 Year                        |
| EMI Receiver - RF Filter Section         | Hewlett Packard              | 85460A               | 3330A00138    | 04/26/10             | 1 Year                        |
| 10 dB Attenuator                         | Pasternack                   | PE7014-10            | N/A           | 09/05/09             | 1 Year                        |
| LISN (EUT)                               | Fisher Custom Communications | FCC-LISN-50-25-2     | 9931          | 06/03/10             | 1 Year                        |
| LISN (Access)                            | EMCO                         | 3825/2               | 9108-1848     | 06/03/10             | 1 Year                        |
| Antenna - Biconical                      | EMCO                         | 3110B                | 3383          | 06/05/10             | 1 Year                        |
| Antenna - Log Periodic                   | EMCO                         | 3148                 | 47943         | 06/12/10             | 1 Year                        |
| Power Meter                              | Anritsu                      | ML2487A              | 6K00001785    | 05/29/10             | 1 Year                        |
| Wide Bandwidth Sensor                    | Anritsu                      | MA2491A              | 31193         | 05/29/10             | 1 Year                        |
| 12dB Attenuator                          | Narda                        | 4779-12              | 203           | 06/09/10             | 1 Year                        |
| Temperature/Humidity Monitor             | Dickson                      | TH550                | 7255185       | 04/13/10             | 1 Year                        |

NCR – No Calibration Required.

## 5.0 CONDITIONS DURING EMISSIONS MEASUREMENTS

### 5.1 General

All measurements were made according to the procedures defined in or referred to by the standard listed on the cover page of this report. The measurements were made in the operating mode producing the largest emissions consistent with normal operation and connected to the minimum configuration of auxiliary devices.

### 5.2 Conducted Emissions Test Setup

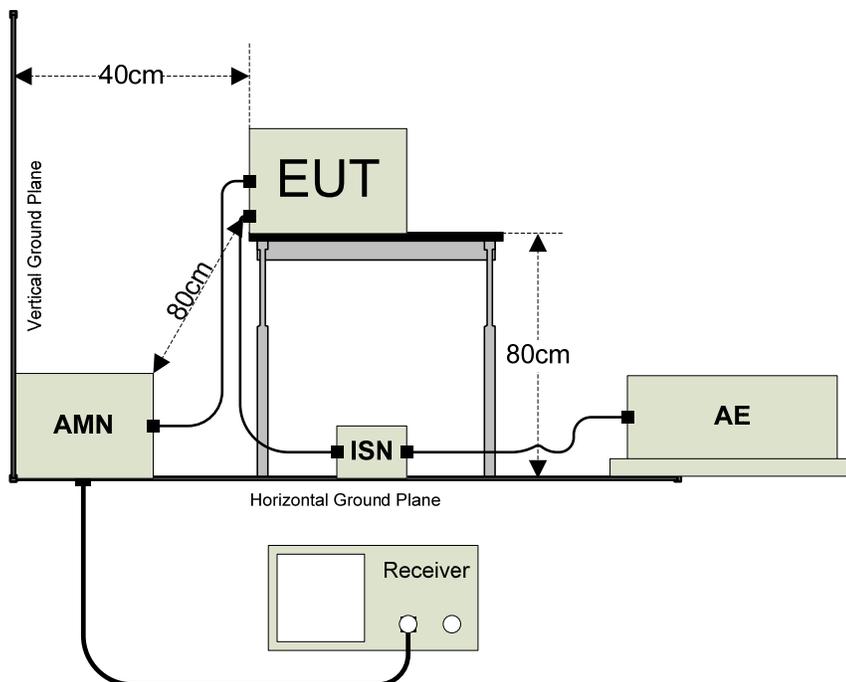
The following was the test configuration.

EUT signal cables that hung closer than 40 cm to the horizontal metal ground plane were folded back and forth forming a bundle 30 cm to 40 cm long. The power cord of the EUT was also bundled in the center and plugged into one of the artificial mains network (AMN). All peripheral equipment was powered from a second AMN via a multiple outlet strip placed at a distance on 10cm from each other. The AMN and ISN were positioned 80cm from the EUT. Signal cables that were not connected to an AE were terminated using the correct termination. If applicable, the current probe was placed at 0.1 m from the ISN.

Peak, quasi-peak and/or average detectors were used for testing performed between 150 kHz and 30 MHz. A swept frequency scan was performed for both Line 1 and Line 2. The six highest readings were compared against the limit and recorded in the data sheet along with a snapshot image of the sweep scan. The graphical scans in Appendix A only reflect peak readings while the tabulated data sheets reflect peak, average, and/or quasi-peak measurements.

#### Climatic Conditions:

The EUT was tested within its intended operating and climatic conditions.



AMN = Artificial mains network  
 AE = Associated equipment  
 EUT = Equipment under test  
 ISN = Impedance stabilization network

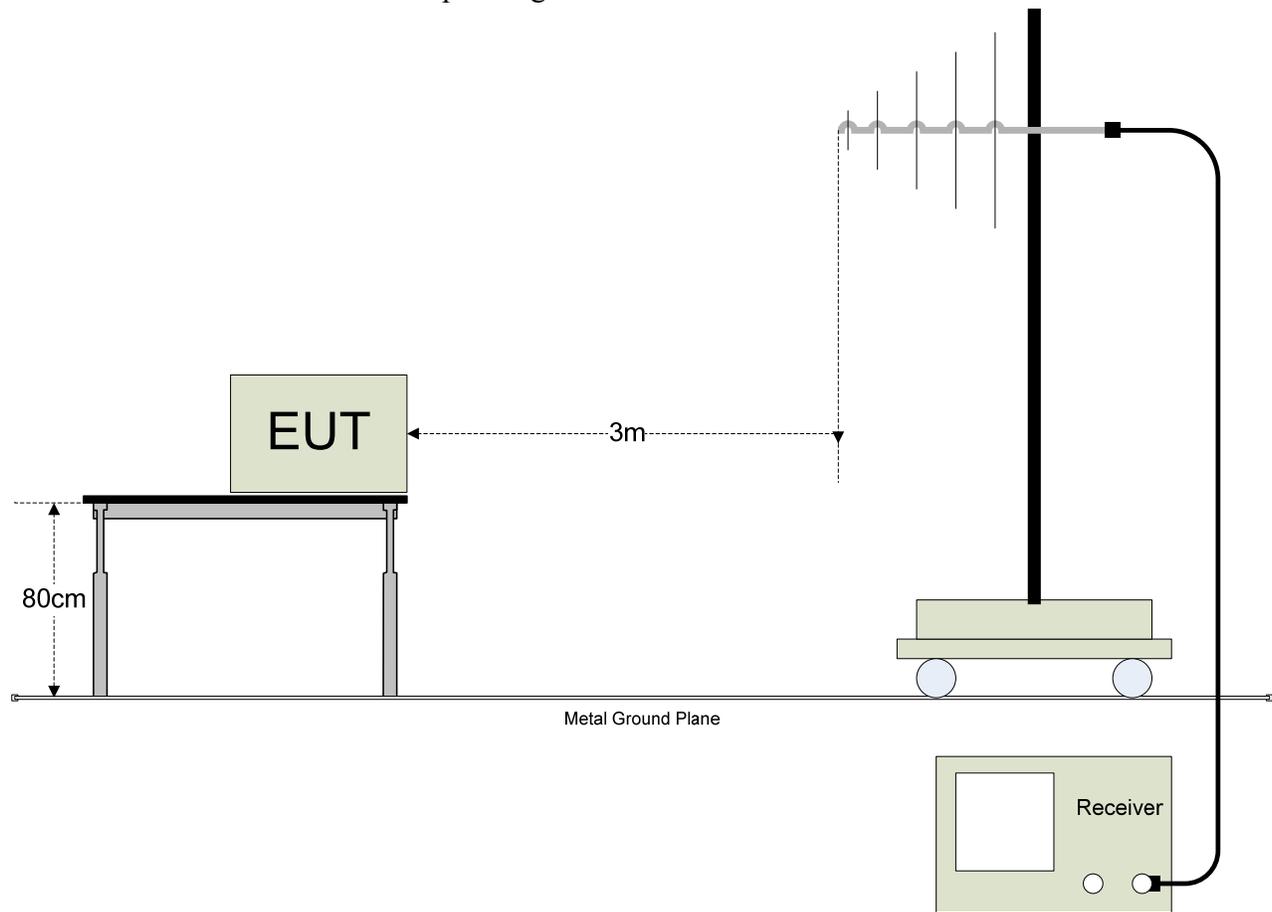
### 5.3 Radiated Emissions Test Setup

The Open Area Test Site (OATS) was used for radiated emission testing. The receiving (Rx) antenna(s) was placed 10m from the nearest side of the EUT facing the Rx antenna. The EUT (if floor-standing) was placed directly on the flush-mounted 360 degree rotating turntable. The EUT (if table-top) was placed directly on an 80cm high non-metallic table, and the table was placed on the rotating turntable. During the initial EMI scan, all the suspect frequencies, i.e.; harmonics, broadband signals were checked with the Rx broadband antennas in both vertical and horizontal polarities. The biconical Rx, log periodic Rx, and horn Rx antennas were used from 30MHz – 299.99MHz, 300MHz – 1000MHz, and 1GHz – 18GHz respectively.

Upon completion of all harmonic and broadband measurements, the balance of any remaining frequencies was checked between 30MHz – 18GHz. Any signals appearing within 20 dB of the classification limit was measured. Each signal was maximized by first rotating the turntable at least 360 degrees and recording the azimuth in the data sheet. Lastly, the Rx antenna was raised and/or lowered to maximize the signal elevation. If the measured signal was obtained using the peak detector and that signal appeared within 3 dB of the regulatory limit line, then the same signal was re-measured using the quasi-peak detector on the EMI receiver. Both meter readings if necessary were recorded on the data sheet.

#### Climatic Conditions:

The EUT was tested within its intended operating and climatic conditions.





## **APPENDIX A**

### ***TEST DATA***

**RADIATED EMISSIONS TEST RESULTS**

|                       |                                                                                                                            |                        |              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                          | <b>DATE:</b>           | 08/17/09     |
| <b>EUT:</b>           | Intel® Centrino® Ultimate-N 6200                                                                                           | <b>PROJECT NUMBER:</b> | INTEL-090601 |
| <b>MODEL NUMBER:</b>  | 622ANHMW                                                                                                                   | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 0015005A3C7C                                                                                                               | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in an extender board connected to the host laptop's mini PCI slot in <b>802.11a (5150-5350 MHz) mode.</b> | <b>TEMPERATURE:</b>    | 24° C        |
|                       |                                                                                                                            | <b>HUMIDITY:</b>       | 46% RH       |
|                       |                                                                                                                            | <b>TIME:</b>           | 9:30 AM      |

|                     |                                                                                                                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description:</b> | Radiated RF Emissions (1 GHz – 18 GHz)                                                                                                                                                      |
| <b>Results:</b>     | <b>PASSED</b> Horizontal and Vertical Antenna Polarizations Class B Limits                                                                                                                  |
| <b>Note:</b>        | Radiated Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. <ul style="list-style-type: none"> <li>• 120VAC / 60 Hz.</li> </ul> |

| <b>Unwanted Spurious Emissions Limits</b> |                              |                                                                        |                                                                              |
|-------------------------------------------|------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>Frequency (MHz)</b>                    | <b>Field Strength (uV/m)</b> | <b>Field Strength (dBuV/m)<br/>(Emissions in the restricted bands)</b> | <b>Field Strength (dBm/MHz)<br/>(Emissions outside the restricted bands)</b> |
| Above 960                                 | 500                          | 54.00 (Average)<br>74.00 (Peak)                                        | < -20 dBc                                                                    |

## Radiated Emissions Sample Calculations

$$\text{Corrected Meter Reading} = \text{Meter Reading} + F + C - D$$

Where, F = Antenna Factor

C = Cable Factor

G = Amplifier Gain

D = Distance Factor (if applicable)

Therefore, the equation for determining the Corrected Meter Reading Limit (CML) is:

$$\text{CML} = \text{Specification Limit} - F - C + D$$



Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11a mode (5150-5350 MHz)  
 Channels 36, 40, 48, 52, 56, & 64  
 Continuous TX at Chain A Antenna port with Shanghai Universe Antennas  
 Aegis Labs, Inc. File #: INTEL-090601-02*

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                      |                     |                   |                        |   |                   |                  |                          |               |                  |               |
|-------------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|-------------------|------------------|--------------------------|---------------|------------------|---------------|
| Freq. (MHz)                                                 | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments      |
| 5180.00                                                     | 60.43                | 100                 | 45                |                        |   | 3.77              | 34.28            | 98.48                    |               |                  | <b>Ch. 36</b> |
| 5180.00                                                     |                      |                     |                   | 53.40                  | A | 3.77              | 34.28            | 91.45                    |               |                  |               |
| 5200.00                                                     | 62.00                | 100                 | 0                 |                        |   | 3.78              | 34.30            | 100.08                   |               |                  | <b>Ch. 40</b> |
| 5200.00                                                     |                      |                     |                   | 55.14                  | A | 3.78              | 34.30            | 93.22                    |               |                  |               |
| 5240.00                                                     | 61.11                | 100                 | 45                |                        |   | 3.80              | 34.34            | 99.25                    |               |                  | <b>Ch. 48</b> |
| 5240.00                                                     |                      |                     |                   | 54.19                  | A | 3.80              | 34.34            | 92.33                    |               |                  |               |
| 5260.00                                                     | 59.18                | 100                 | 45                |                        |   | 3.80              | 34.36            | 97.34                    |               |                  | <b>Ch. 52</b> |
| 5260.00                                                     |                      |                     |                   | 52.60                  | A | 3.80              | 34.36            | 90.76                    |               |                  |               |
| 5280.00                                                     | 60.08                | 100                 | 180               |                        |   | 3.81              | 34.38            | 98.27                    |               |                  | <b>Ch. 56</b> |
| 5280.00                                                     |                      |                     |                   | 53.37                  | A | 3.81              | 34.38            | 91.56                    |               |                  |               |
| 5320.00                                                     | 61.32                | 100                 | 45                |                        |   | 3.83              | 34.42            | 99.57                    |               |                  | <b>Ch. 64</b> |
| 5320.00                                                     |                      |                     |                   | 54.51                  | A | 3.83              | 34.42            | 92.76                    |               |                  |               |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                      |                     |                   |                        |   |                   |                  |                          |               |                  |               |
|-----------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|-------------------|------------------|--------------------------|---------------|------------------|---------------|
| Freq. (MHz)                                               | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments      |
| 5180.00                                                   | 62.61                | 100                 | 45                |                        |   | 3.77              | 34.48            | 100.86                   |               |                  | <b>Ch. 36</b> |
| 5180.00                                                   |                      |                     |                   | 53.13                  | A | 3.77              | 34.48            | 91.38                    |               |                  |               |
| 5200.00                                                   | 63.35                | 100                 | 45                |                        |   | 3.78              | 34.50            | 101.63                   |               |                  | <b>Ch. 40</b> |
| 5200.00                                                   |                      |                     |                   | 53.76                  | A | 3.78              | 34.50            | 92.04                    |               |                  |               |
| 5240.00                                                   | 63.74                | 100                 | 0                 |                        |   | 3.80              | 34.54            | 102.08                   |               |                  | <b>Ch. 48</b> |
| 5240.00                                                   |                      |                     |                   | 53.98                  | A | 3.80              | 34.54            | 92.32                    |               |                  |               |
| 5260.00                                                   | 64.52                | 100                 | 45                |                        |   | 3.80              | 34.56            | 102.88                   |               |                  | <b>Ch. 52</b> |
| 5260.00                                                   |                      |                     |                   | 55.06                  | A | 3.80              | 34.56            | 93.42                    |               |                  |               |
| 5280.00                                                   | 63.90                | 100                 | 0                 |                        |   | 3.81              | 34.58            | 102.29                   |               |                  | <b>Ch. 56</b> |
| 5280.00                                                   |                      |                     |                   | 54.29                  | A | 3.81              | 34.58            | 92.68                    |               |                  |               |
| 5320.00                                                   | 65.14                | 100                 | 315               |                        |   | 3.83              | 34.62            | 103.59                   |               |                  | <b>Ch. 64</b> |
| 5320.00                                                   |                      |                     |                   | 55.25                  | A | 3.83              | 34.62            | 93.70                    |               |                  |               |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.



Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11a mode (5150-5350 MHz)  
Channels 36 & 64  
Continuous TX at Chain A Antenna port with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-02*

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                      |                     |                   |                        |                   |                  |                          |               |                  |               |
|-------------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|-------------------|------------------|--------------------------|---------------|------------------|---------------|
| Freq. (MHz)                                                 | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments      |
| 5150.00                                                     |                      |                     |                   |                        |                   |                  | 55.82                    | 74.00         | -18.18           | <b>Ch. 36</b> |
| 5150.00                                                     |                      |                     |                   |                        |                   |                  | 49.48                    | 74.00         | -24.52           |               |
| 5150.00                                                     |                      |                     |                   |                        | A                 |                  | 40.62                    | 54.00         | -13.38           |               |
| 5150.00                                                     |                      |                     |                   |                        | A                 |                  | 42.45                    | 54.00         | -11.55           |               |
| 5350.00                                                     |                      |                     |                   |                        |                   |                  | 50.40                    | 74.00         | -23.60           | <b>Ch. 64</b> |
| 5350.00                                                     |                      |                     |                   |                        |                   |                  | 47.40                    | 74.00         | -26.60           |               |
| 5350.00                                                     |                      |                     |                   |                        | A                 |                  | 39.60                    | 54.00         | -14.40           |               |
| 5350.00                                                     |                      |                     |                   |                        | A                 |                  | 40.59                    | 54.00         | -13.41           |               |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                      |                     |                   |                        |                   |                  |                          |               |                  |               |
|-----------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|-------------------|------------------|--------------------------|---------------|------------------|---------------|
| Freq. (MHz)                                               | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments      |
| 5150.00                                                   |                      |                     |                   |                        |                   |                  | 58.20                    | 74.00         | -15.80           | <b>Ch. 36</b> |
| 5150.00                                                   |                      |                     |                   |                        |                   |                  | 51.86                    | 74.00         | -22.14           |               |
| 5150.00                                                   |                      |                     |                   |                        | A                 |                  | 40.55                    | 54.00         | -13.45           |               |
| 5150.00                                                   |                      |                     |                   |                        | A                 |                  | 42.38                    | 54.00         | -11.62           |               |
| 5350.00                                                   |                      |                     |                   |                        |                   |                  | 54.42                    | 74.00         | -19.58           | <b>Ch. 64</b> |
| 5350.00                                                   |                      |                     |                   |                        |                   |                  | 51.42                    | 74.00         | -22.58           |               |
| 5350.00                                                   |                      |                     |                   |                        | A                 |                  | 40.54                    | 54.00         | -13.46           |               |
| 5350.00                                                   |                      |                     |                   |                        | A                 |                  | 41.53                    | 54.00         | -12.47           |               |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = F_m - \Delta m$$

Where

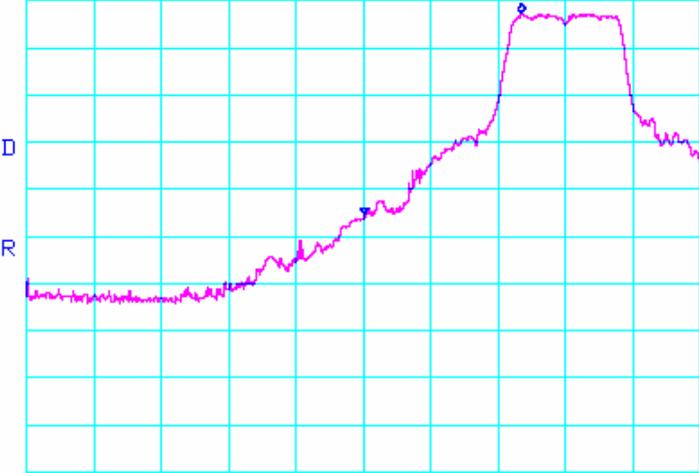
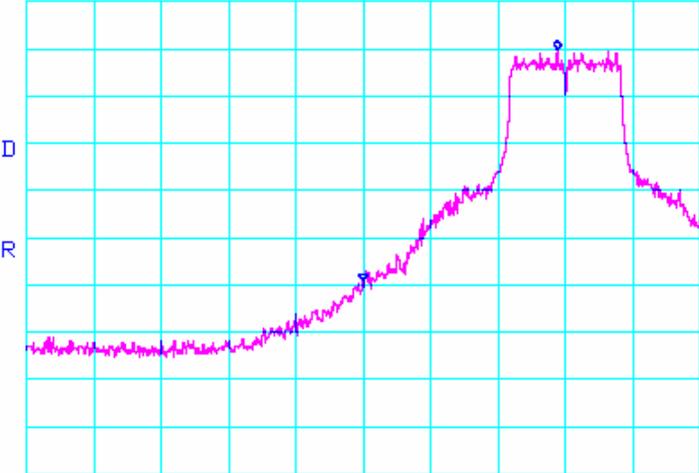
BE = Band Edge Field Strength

F<sub>m</sub> = Measured Fundamental (Peak or Average)

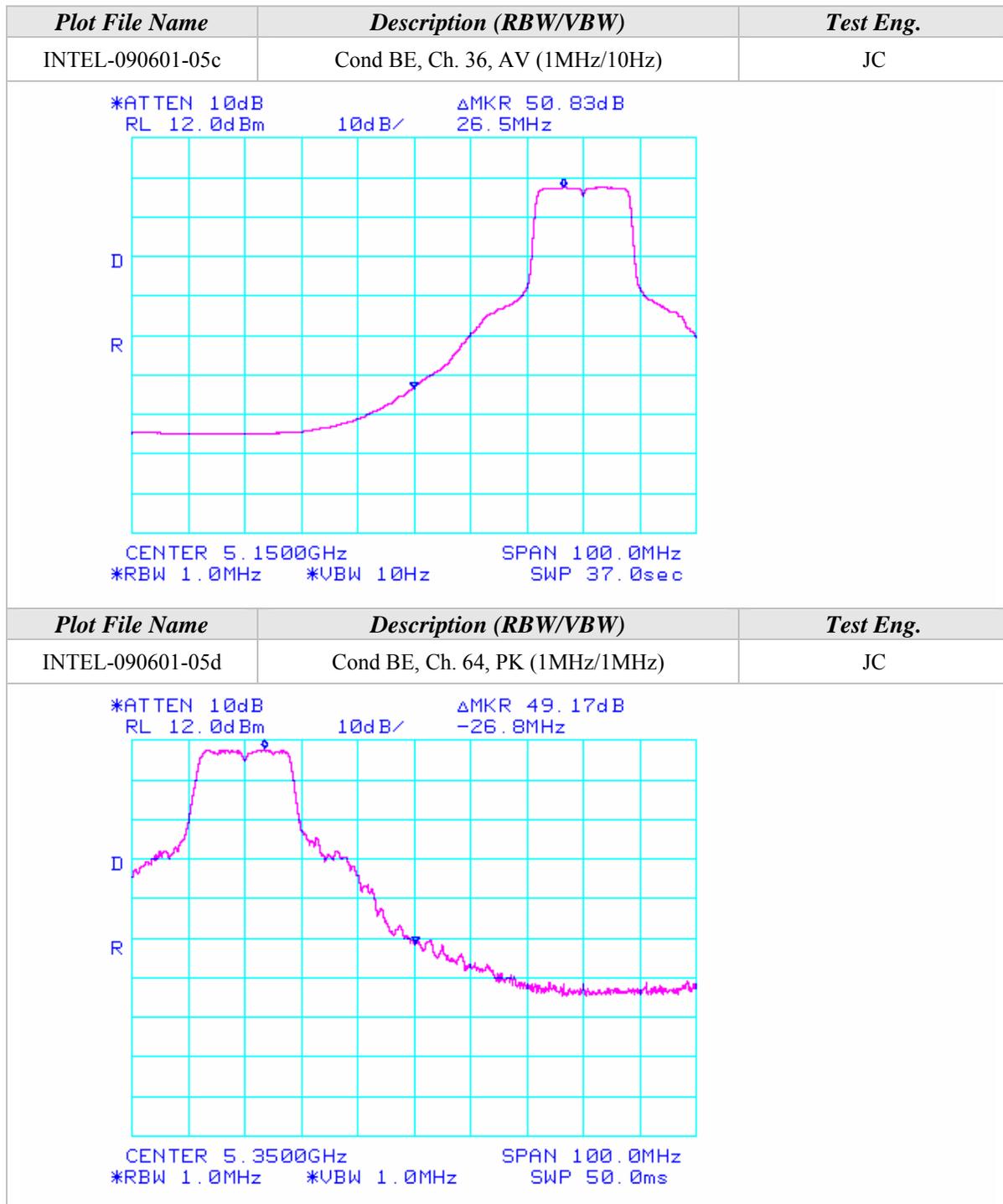
Δ<sub>m</sub> = Measured Conducted Band Edge Delta (Peak or Average)



Band-Edge Plots (Continued)

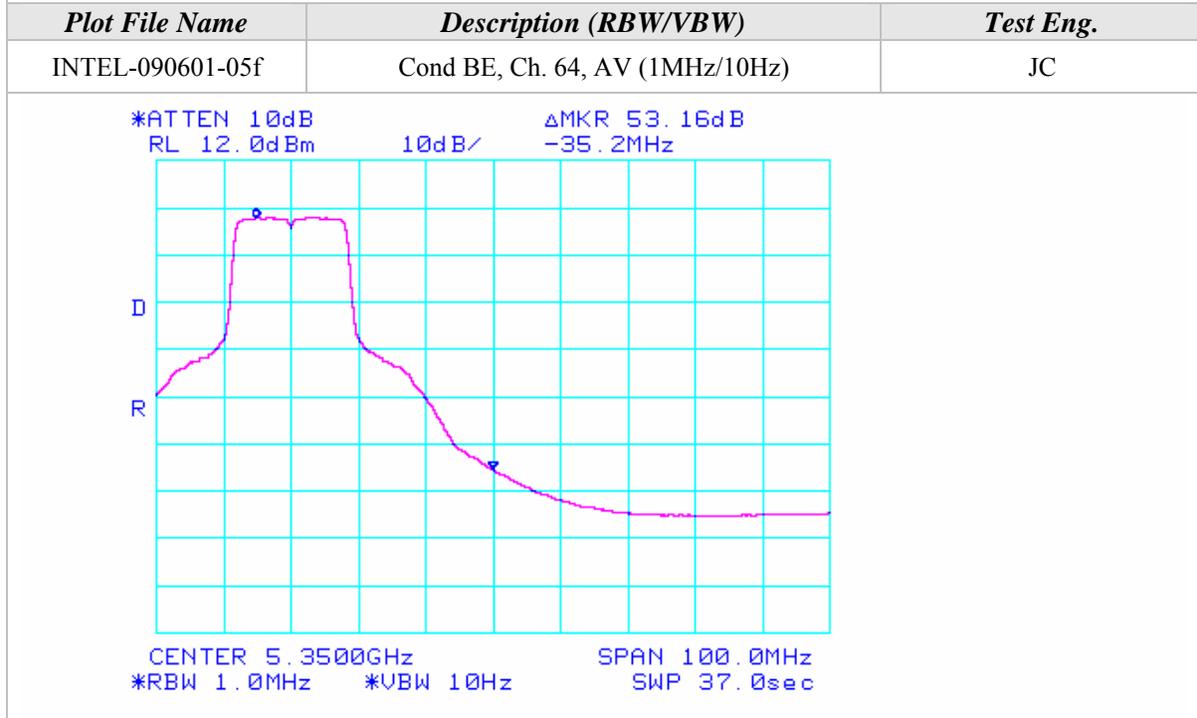
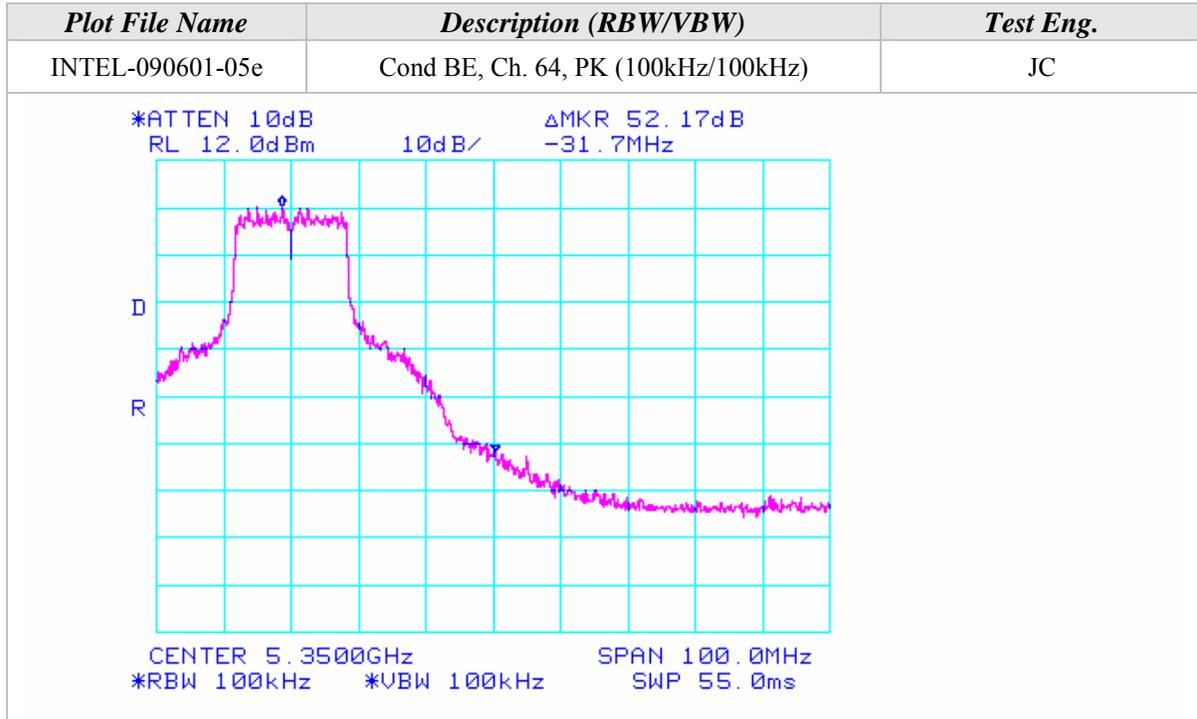
| <i>Plot File Name</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <i>Description (RBW/VBW)</i>        | <i>Test Eng.</i> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------|
| INTEL-090601-05a                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Cond BE, Ch. 36, PK (1MHz/1MHz)     | JC               |
| <p data-bbox="337 399 950 447">*ATTEN 10dB                           ΔMKR 42.66dB<br/>                     RL 12.0dBm                           10dB/               23.3MHz</p>  <p data-bbox="337 934 1023 982">CENTER 5.1500GHz                           SPAN 100.0MHz<br/>                     *RBW 1.0MHz                           *VBW 1.0MHz                           SWP 50.0ms</p>       |                                     |                  |
| <i>Plot File Name</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <i>Description (RBW/VBW)</i>        | <i>Test Eng.</i> |
| INTEL-090601-05b                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Cond BE, Ch. 36, PK (100kHz/100kHz) | JC               |
| <p data-bbox="337 1117 950 1165">*ATTEN 10dB                           ΔMKR 49.00dB<br/>                     RL 12.0dBm                           10dB/               28.8MHz</p>  <p data-bbox="337 1652 1023 1701">CENTER 5.1500GHz                           SPAN 100.0MHz<br/>                     *RBW 100kHz                           *VBW 100kHz                           SWP 55.0ms</p> |                                     |                  |

## Band-Edge Plots (Continued)





Band-Edge Plots (Continued)





Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11a mode (5150-5350 MHz)  
 Channels 36, 40, 48, 52, 56, & 64  
 Continuous TX at Chain B Antenna port with Shanghai Universe Antennas  
 Aegis Labs, Inc. File #: INTEL-090601-04*

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                      |                     |                   |                        |   |                   |                  |                          |               |                  |               |
|-------------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|-------------------|------------------|--------------------------|---------------|------------------|---------------|
| Freq. (MHz)                                                 | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments      |
| 5180.00                                                     | 62.67                | 100                 | 315               |                        |   | 3.77              | 34.28            | 100.72                   |               |                  | <b>Ch. 36</b> |
| 5180.00                                                     |                      |                     |                   | 53.33                  | A | 3.77              | 34.28            | 91.38                    |               |                  |               |
| 5200.00                                                     | 63.50                | 100                 | 315               |                        |   | 3.78              | 34.30            | 101.58                   |               |                  | <b>Ch. 40</b> |
| 5200.00                                                     |                      |                     |                   | 54.00                  | A | 3.78              | 34.30            | 92.08                    |               |                  |               |
| 5240.00                                                     | 62.33                | 100                 | 0                 |                        |   | 3.80              | 34.34            | 100.47                   |               |                  | <b>Ch. 48</b> |
| 5240.00                                                     |                      |                     |                   | 53.17                  | A | 3.80              | 34.34            | 91.31                    |               |                  |               |
| 5260.00                                                     | 63.83                | 100                 | 315               |                        |   | 3.80              | 34.36            | 101.99                   |               |                  | <b>Ch. 52</b> |
| 5260.00                                                     |                      |                     |                   | 55.50                  | A | 3.80              | 34.36            | 93.66                    |               |                  |               |
| 5280.00                                                     | 64.33                | 100                 | 315               |                        |   | 3.81              | 34.38            | 102.52                   |               |                  | <b>Ch. 56</b> |
| 5280.00                                                     |                      |                     |                   | 55.83                  | A | 3.81              | 34.38            | 94.02                    |               |                  |               |
| 5320.00                                                     | 63.67                | 100                 | 315               |                        |   | 3.83              | 34.42            | 101.92                   |               |                  | <b>Ch. 64</b> |
| 5320.00                                                     |                      |                     |                   | 54.50                  | A | 3.83              | 34.42            | 92.75                    |               |                  |               |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                      |                     |                   |                        |   |                   |                  |                          |               |                  |               |
|-----------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|-------------------|------------------|--------------------------|---------------|------------------|---------------|
| Freq. (MHz)                                               | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments      |
| 5180.00                                                   | 62.67                | 100                 | 315               |                        |   | 3.77              | 34.48            | 100.92                   |               |                  | <b>Ch. 36</b> |
| 5180.00                                                   |                      |                     |                   | 53.33                  | A | 3.77              | 34.48            | 91.58                    |               |                  |               |
| 5200.00                                                   | 63.17                | 100                 | 315               |                        |   | 3.78              | 34.50            | 101.45                   |               |                  | <b>Ch. 40</b> |
| 5200.00                                                   |                      |                     |                   | 53.83                  | A | 3.78              | 34.50            | 92.11                    |               |                  |               |
| 5240.00                                                   | 63.67                | 100                 | 315               |                        |   | 3.80              | 34.54            | 102.01                   |               |                  | <b>Ch. 48</b> |
| 5240.00                                                   |                      |                     |                   | 54.50                  | A | 3.80              | 34.54            | 92.84                    |               |                  |               |
| 5260.00                                                   | 64.33                | 100                 | 315               |                        |   | 3.80              | 34.56            | 102.69                   |               |                  | <b>Ch. 52</b> |
| 5260.00                                                   |                      |                     |                   | 55.00                  | A | 3.80              | 34.56            | 93.36                    |               |                  |               |
| 5280.00                                                   | 63.83                | 100                 | 0                 |                        |   | 3.81              | 34.58            | 102.22                   |               |                  | <b>Ch. 56</b> |
| 5280.00                                                   |                      |                     |                   | 54.17                  | A | 3.81              | 34.58            | 92.56                    |               |                  |               |
| 5320.00                                                   | 65.33                | 100                 | 315               |                        |   | 3.83              | 34.62            | 103.78                   |               |                  | <b>Ch. 64</b> |
| 5320.00                                                   |                      |                     |                   | 55.33                  | A | 3.83              | 34.62            | 93.78                    |               |                  |               |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.



Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11a mode (5150-5350 MHz)  
Channels 36 & 64  
Continuous TX at Chain B Antenna port with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-04*

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                      |                     |                   |                        |                   |                  |                          |               |                  |               |
|-------------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|-------------------|------------------|--------------------------|---------------|------------------|---------------|
| Freq. (MHz)                                                 | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments      |
| 5150.00                                                     |                      |                     |                   |                        |                   |                  | 56.72                    | 74.00         | -17.28           | <b>Ch. 36</b> |
| 5150.00                                                     |                      |                     |                   |                        |                   |                  | 53.56                    | 74.00         | -20.44           |               |
| 5150.00                                                     |                      |                     |                   |                        | A                 |                  | 42.55                    | 54.00         | -11.45           |               |
| 5150.00                                                     |                      |                     |                   |                        | A                 |                  | 44.22                    | 54.00         | -9.78            |               |
| 5350.00                                                     |                      |                     |                   |                        |                   |                  | 54.42                    | 74.00         | -19.58           | <b>Ch. 64</b> |
| 5350.00                                                     |                      |                     |                   |                        |                   |                  | 50.59                    | 74.00         | -23.41           |               |
| 5350.00                                                     |                      |                     |                   |                        | A                 |                  | 40.91                    | 54.00         | -13.09           |               |
| 5350.00                                                     |                      |                     |                   |                        | A                 |                  | 41.42                    | 54.00         | -12.58           |               |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                      |                     |                   |                        |                   |                  |                          |               |                  |               |
|-----------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|-------------------|------------------|--------------------------|---------------|------------------|---------------|
| Freq. (MHz)                                               | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments      |
| 5150.00                                                   |                      |                     |                   |                        |                   |                  | 56.92                    | 74.00         | -17.08           | <b>Ch. 36</b> |
| 5150.00                                                   |                      |                     |                   |                        |                   |                  | 53.76                    | 74.00         | -20.24           |               |
| 5150.00                                                   |                      |                     |                   |                        | A                 |                  | 42.75                    | 54.00         | -11.25           |               |
| 5150.00                                                   |                      |                     |                   |                        | A                 |                  | 44.42                    | 54.00         | -9.58            |               |
| 5350.00                                                   |                      |                     |                   |                        |                   |                  | 56.28                    | 74.00         | -17.72           | <b>Ch. 64</b> |
| 5350.00                                                   |                      |                     |                   |                        |                   |                  | 52.45                    | 74.00         | -21.55           |               |
| 5350.00                                                   |                      |                     |                   |                        | A                 |                  | 41.94                    | 54.00         | -12.06           |               |
| 5350.00                                                   |                      |                     |                   |                        | A                 |                  | 42.45                    | 54.00         | -11.55           |               |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = F_m - \Delta m$$

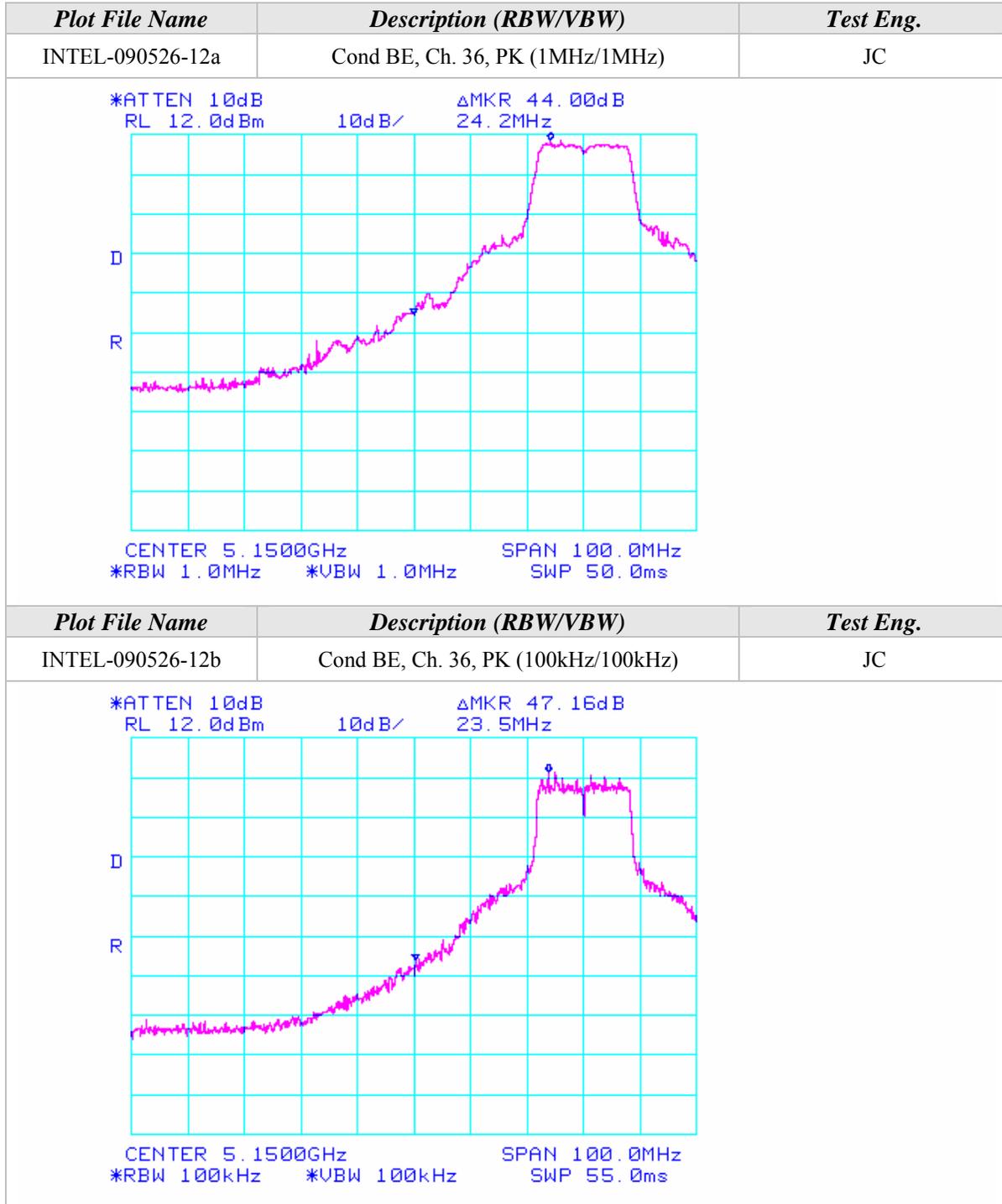
Where

BE = Band Edge Field Strength

F<sub>m</sub> = Measured Fundamental (Peak or Average)

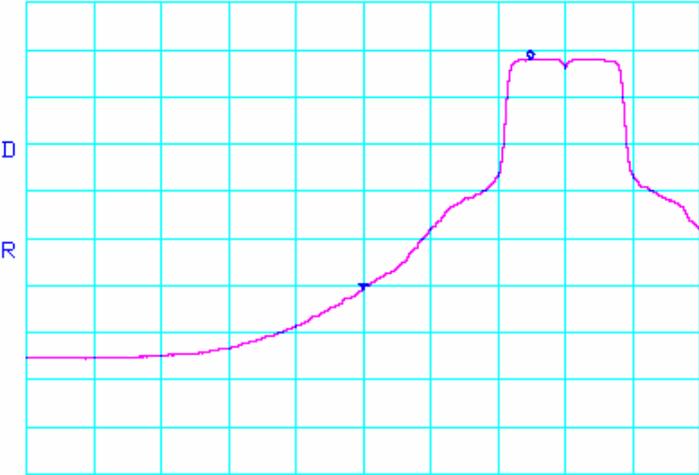
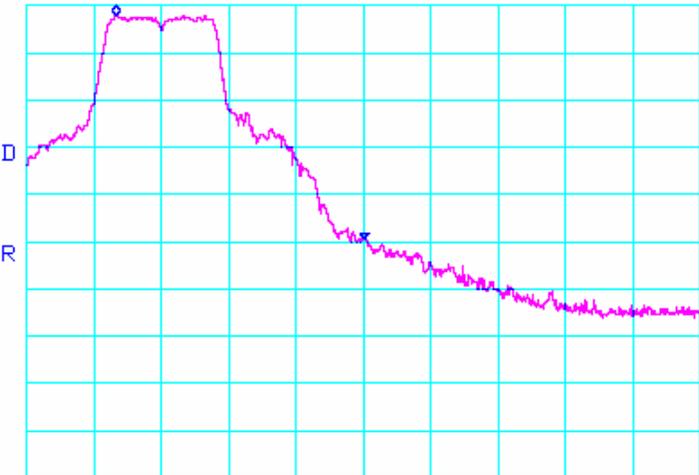
Δ<sub>m</sub> = Measured Conducted Band Edge Delta (Peak or Average)

## Band-Edge Plots (Continued)

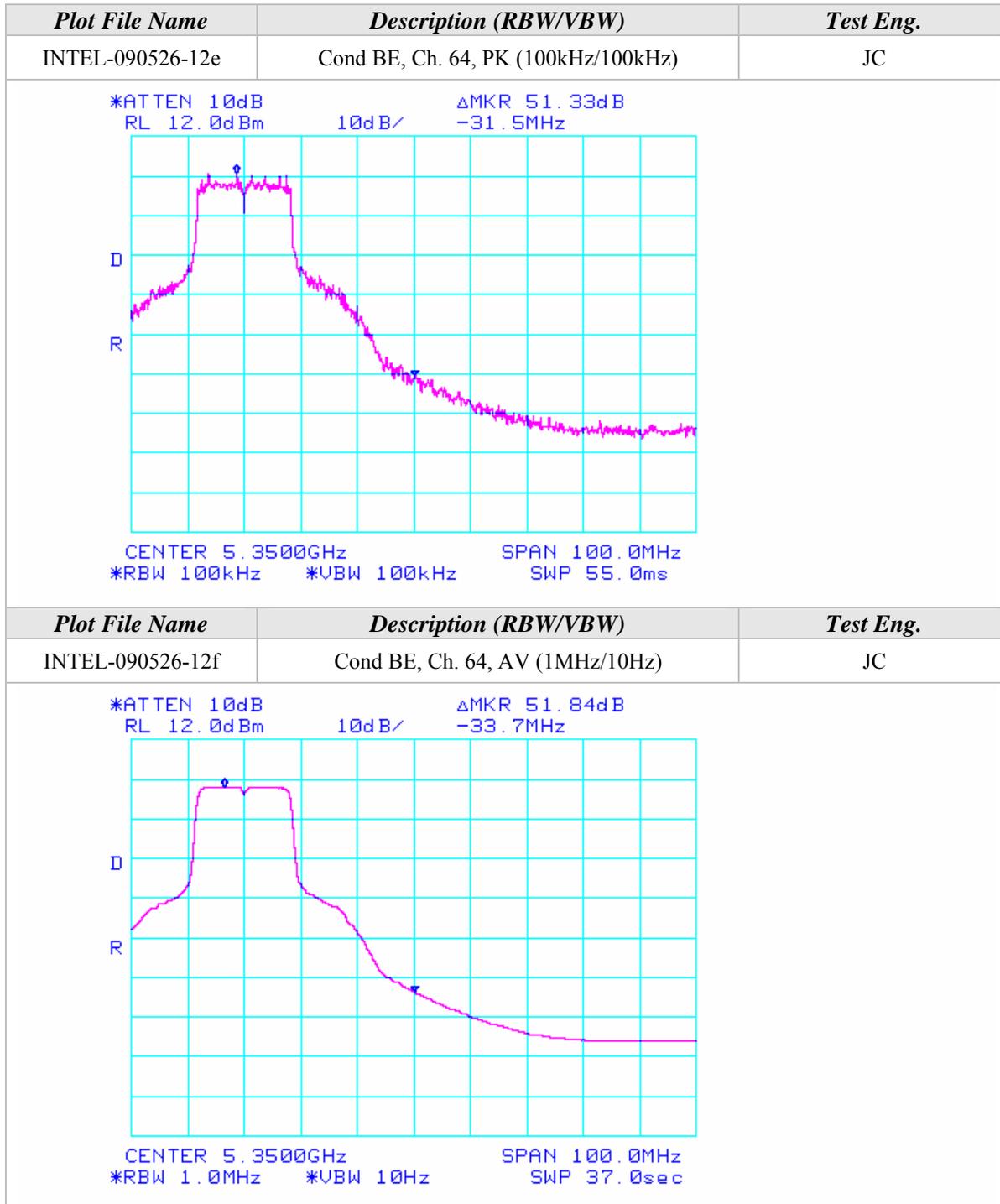




Band-Edge Plots (Continued)

| <b>Plot File Name</b>                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Description (RBW/VBW)</b>    | <b>Test Eng.</b> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------|
| INTEL-090526-12c                                                                                                                                                                                                                                                                                                                                                                                                                                 | Cond BE, Ch. 36, AV (1MHz/10Hz) | JC               |
| <p data-bbox="337 396 954 449">                     *ATTEN 10dB      ΔMKR 48.83dB<br/>                     RL 12.0dBm      10dB/      24.8MHz                 </p>  <p data-bbox="337 932 1023 987">                     CENTER 5.1500GHz      SPAN 100.0MHz<br/>                     *RBW 1.0MHz      *VBW 10Hz      SWP 37.0sec                 </p>         |                                 |                  |
| <b>Plot File Name</b>                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Description (RBW/VBW)</b>    | <b>Test Eng.</b> |
| INTEL-090526-12d                                                                                                                                                                                                                                                                                                                                                                                                                                 | Cond BE, Ch. 64, PK (1MHz/1MHz) | JC               |
| <p data-bbox="337 1113 954 1165">                     *ATTEN 10dB      ΔMKR 47.50dB<br/>                     RL 12.0dBm      10dB/      -36.8MHz                 </p>  <p data-bbox="337 1648 1023 1703">                     CENTER 5.3500GHz      SPAN 100.0MHz<br/>                     *RBW 1.0MHz      *VBW 1.0MHz      SWP 50.0ms                 </p> |                                 |                  |

## Band-Edge Plots (Continued)





Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5150-5350 MHz)  
Channels 36, 40, & 48  
Continuous TX at Chain A & B Antenna ports with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-06*

**RADIATED EMISSIONS - Horizontal Antenna Polarization**

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Channel/Chain Tested |
|-------------|----------------------|---------------------|-------------------|------------------------|--------------------|-------------------|------------------|--------------------------|---------------|------------------|----------------------|
| 3466.66     | 52.83                | 100                 | 315               |                        | 47.64              | 3.06              | 32.79            | 41.05                    | 68.00         | -26.95           | Ch. 40/              |
| 6933.33     | 51.83                | 100                 | 315               |                        | 46.25              | 4.40              | 35.79            | 45.77                    | 68.00         | -22.23           | A                    |
| 3466.66     | 52.83                | 100                 | 315               |                        | 47.64              | 3.06              | 32.79            | 41.05                    | 68.00         | -26.95           | Ch. 40/              |
| 6933.33     | 51.67                | 100                 | 0                 |                        | 46.25              | 4.40              | 35.79            | 45.61                    | 68.00         | -22.39           | B                    |
| 3453.33     | 53.33                | 100                 | 0                 |                        | 47.64              | 3.06              | 32.79            | 41.54                    | 68.00         | -26.46           | Ch. 36/              |
| 6906.66     | 53.83                | 100                 | 0                 |                        | 46.29              | 4.39              | 35.78            | 47.71                    | 68.00         | -20.29           | A                    |
| 3493.33     | 53.17                | 100                 | 0                 |                        | 47.62              | 3.06              | 32.80            | 41.41                    | 68.00         | -26.59           | Ch. 48/              |
| 6986.66     | 52.33                | 100                 | 45                |                        | 46.16              | 4.42              | 35.80            | 46.39                    | 68.00         | -21.61           | A                    |

**RADIATED EMISSIONS - Vertical Antenna Polarization**

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments |
|-------------|----------------------|---------------------|-------------------|------------------------|--------------------|-------------------|------------------|--------------------------|---------------|------------------|----------|
| 3466.66     | 53.83                | 100                 | 315               |                        | 47.64              | 3.06              | 32.59            | 41.85                    | 68.00         | -26.15           | Ch. 40/  |
| 6933.33     | 52.83                | 100                 | 315               |                        | 46.25              | 4.40              | 35.59            | 46.57                    | 68.00         | -21.43           | A        |
| 3466.66     | 54.00                | 100                 | 315               |                        | 47.64              | 3.06              | 32.59            | 42.02                    | 68.00         | -25.98           | Ch. 40/  |
| 6933.33     | 52.17                | 100                 | 315               |                        | 46.25              | 4.40              | 35.59            | 45.91                    | 68.00         | -22.09           | B        |
| 3453.33     | 53.67                | 100                 | 0                 |                        | 47.64              | 3.06              | 32.59            | 41.68                    | 68.00         | -26.32           | Ch. 36/  |
| 6906.66     | 55.00                | 100                 | 0                 |                        | 46.29              | 4.39              | 35.58            | 48.68                    | 68.00         | -19.32           | B        |
| 3493.33     | 51.67                | 100                 | 0                 |                        | 47.62              | 3.06              | 32.60            | 39.71                    | 68.00         | -28.29           | Ch. 48/  |
| 6986.66     | 51.67                | 100                 | 0                 |                        | 0.00               | 0.00              | 0.00             | 51.67                    | 68.00         | -16.33           | B        |



Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5150-5350 MHz)  
Channels 52, 56, & 64  
Continuous TX at Chain A & B Antenna ports with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-06*

**RADIATED EMISSIONS - Horizontal Antenna Polarization**

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +/-FAIL | Channel/Chain Tested |
|-------------|----------------------|---------------------|-------------------|------------------------|--------------------|-------------------|------------------|--------------------------|---------------|-------------------|----------------------|
| 3520.00     | 52.17                | 100                 | 0                 |                        | 47.62              | 3.08              | 32.82            | 40.46                    | 68.00         | -27.54            | <b>Ch. 56/A</b>      |
| 3520.00     | 52.67                | 100                 | 0                 |                        | 47.62              | 3.08              | 32.82            | 40.96                    | 68.00         | -27.04            | <b>Ch. 56/B</b>      |
| 3506.66     | 52.83                | 100                 | 0                 |                        | 47.62              | 3.07              | 32.81            | 41.09                    | 68.00         | -26.91            | <b>Ch. 52/</b>       |
| 7013.33     | 51.17                | 100                 | 0                 |                        | 46.13              | 4.43              | 35.80            | 45.28                    | 68.00         | -22.72            | <b>B</b>             |
| 3546.66     | 53.50                | 100                 | 0                 |                        | 47.62              | 3.12              | 32.86            | 41.85                    | 68.00         | -26.15            | <b>Ch. 64/</b>       |
| 7093.33     | 52.50                | 100                 | 45                |                        | 46.05              | 4.46              | 35.78            | 46.70                    | 68.00         | -21.30            | <b>B</b>             |

**RADIATED EMISSIONS - Vertical Antenna Polarization**

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +/-FAIL | Comments       |
|-------------|----------------------|---------------------|-------------------|------------------------|--------------------|-------------------|------------------|--------------------------|---------------|-------------------|----------------|
| 3520.00     | 52.50                | 100                 | 0                 |                        | 47.62              | 3.08              | 32.63            | 40.60                    | 68.00         | -27.40            | <b>Ch. 56/</b> |
| 7040.00     | 51.83                | 100                 | 0                 |                        | 46.10              | 4.44              | 35.61            | 45.78                    | 68.00         | -22.22            | <b>A</b>       |
| 3520.00     | 52.67                | 100                 | 0                 |                        | 47.62              | 3.08              | 32.63            | 40.77                    | 68.00         | -27.23            | <b>Ch. 56/</b> |
| 7040.00     | 52.50                | 100                 | 0                 |                        | 46.10              | 4.44              | 35.61            | 46.45                    | 68.00         | -21.55            | <b>B</b>       |
| 3506.66     | 53.50                | 100                 | 0                 |                        | 47.62              | 3.07              | 32.61            | 41.56                    | 68.00         | -26.44            | <b>Ch. 52/</b> |
| 7013.33     | 52.67                | 100                 | 0                 |                        | 46.13              | 4.43              | 35.60            | 46.58                    | 68.00         | -21.42            | <b>A</b>       |
| 3546.66     | 53.33                | 100                 | 0                 |                        | 47.62              | 3.12              | 32.67            | 41.50                    | 68.00         | -26.50            | <b>Ch. 64/</b> |
| 7093.33     | 52.00                | 100                 | 0                 |                        | 46.05              | 4.46              | 35.62            | 46.03                    | 68.00         | -21.97            | <b>A</b>       |

**RADIATED EMISSIONS TEST RESULTS**

|                       |                                                                                                                                       |                        |              |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                                     | <b>DATE:</b>           | 08/17/09     |
| <b>EUT:</b>           | Intel® Centrino® Ultimate-N 6200                                                                                                      | <b>PROJECT NUMBER:</b> | INTEL-090601 |
| <b>MODEL NUMBER:</b>  | 622ANHMW                                                                                                                              | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 0015005A3C7C                                                                                                                          | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in an extender board connected to the host laptop's mini PCI slot in <b>802.11n (5150-5350 MHz) mode 20MHz Wide.</b> | <b>TEMPERATURE:</b>    | 24° C        |
|                       |                                                                                                                                       | <b>HUMIDITY:</b>       | 46% RH       |
|                       |                                                                                                                                       | <b>TIME:</b>           | 9:30 AM      |

|                     |                                                                                                                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description:</b> | Radiated RF Emissions (1 GHz – 18 GHz)                                                                                                                                                      |
| <b>Results:</b>     | <b>PASSED</b> Horizontal and Vertical Antenna Polarizations Class B Limits                                                                                                                  |
| <b>Note:</b>        | Radiated Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. <ul style="list-style-type: none"> <li>• 120VAC / 60 Hz.</li> </ul> |

| <b>Unwanted Spurious Emissions Limits</b> |                              |                                                                        |                                                                              |
|-------------------------------------------|------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>Frequency (MHz)</b>                    | <b>Field Strength (uV/m)</b> | <b>Field Strength (dBuV/m)<br/>(Emissions in the restricted bands)</b> | <b>Field Strength (dBm/MHz)<br/>(Emissions outside the restricted bands)</b> |
| Above 960                                 | 500                          | 54.00 (Average)<br>74.00 (Peak)                                        | < -20 dBc                                                                    |

## Radiated Emissions Sample Calculations

$$\text{Corrected Meter Reading} = \text{Meter Reading} + F + C - D$$

Where, F = Antenna Factor

C = Cable Factor

G = Amplifier Gain

D = Distance Factor (if applicable)

Therefore, the equation for determining the Corrected Meter Reading Limit (CML) is:

$$\text{CML} = \text{Specification Limit} - F - C + D$$



Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11n mode 20MHz Wide (5150-5350 MHz)  
Channels 36, 40, 48, 52, 56, & 64  
Continuous TX at Chain A Antenna port with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-02*

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                      |                     |                   |                        |   |                   |                  |                          |               |                  |               |
|-------------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|-------------------|------------------|--------------------------|---------------|------------------|---------------|
| Freq. (MHz)                                                 | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments      |
| 5180.00                                                     | 60.75                | 100                 | 45                |                        |   | 3.77              | 34.28            | 98.80                    |               |                  | <b>Ch. 36</b> |
| 5180.00                                                     |                      |                     |                   | 53.61                  | A | 3.77              | 34.28            | 91.66                    |               |                  |               |
| 5200.00                                                     | 61.28                | 100                 | 45                |                        |   | 3.78              | 34.30            | 99.36                    |               |                  | <b>Ch. 40</b> |
| 5200.00                                                     |                      |                     |                   | 54.76                  | A | 3.78              | 34.30            | 92.84                    |               |                  |               |
| 5240.00                                                     | 61.16                | 100                 | 45                |                        |   | 3.80              | 34.34            | 99.30                    |               |                  | <b>Ch. 48</b> |
| 5240.00                                                     |                      |                     |                   | 53.78                  | A | 3.80              | 34.34            | 91.92                    |               |                  |               |
| 5260.00                                                     | 62.53                | 100                 | 45                |                        |   | 3.80              | 34.36            | 100.69                   |               |                  | <b>Ch. 52</b> |
| 5260.00                                                     |                      |                     |                   | 54.81                  | A | 3.80              | 34.36            | 92.97                    |               |                  |               |
| 5280.00                                                     | 61.89                | 100                 | 0                 |                        |   | 3.81              | 34.38            | 100.08                   |               |                  | <b>Ch. 56</b> |
| 5280.00                                                     |                      |                     |                   | 54.20                  | A | 3.81              | 34.38            | 92.39                    |               |                  |               |
| 5320.00                                                     | 61.65                | 100                 | 45                |                        |   | 3.83              | 34.42            | 99.90                    |               |                  | <b>Ch. 64</b> |
| 5320.00                                                     |                      |                     |                   | 53.42                  | A | 3.83              | 34.42            | 91.67                    |               |                  |               |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                      |                     |                   |                        |   |                   |                  |                          |               |                  |               |
|-----------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|-------------------|------------------|--------------------------|---------------|------------------|---------------|
| Freq. (MHz)                                               | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments      |
| 5180.00                                                   | 62.76                | 100                 | 270               |                        |   | 3.77              | 34.48            | 101.01                   |               |                  | <b>Ch. 36</b> |
| 5180.00                                                   |                      |                     |                   | 52.95                  | A | 3.77              | 34.48            | 91.20                    |               |                  |               |
| 5200.00                                                   | 63.51                | 100                 | 315               |                        |   | 3.78              | 34.50            | 101.79                   |               |                  | <b>Ch. 40</b> |
| 5200.00                                                   |                      |                     |                   | 54.38                  | A | 3.78              | 34.50            | 92.66                    |               |                  |               |
| 5240.00                                                   | 64.15                | 100                 | 315               |                        |   | 3.80              | 34.54            | 102.49                   |               |                  | <b>Ch. 48</b> |
| 5240.00                                                   |                      |                     |                   | 54.77                  | A | 3.80              | 34.54            | 93.11                    |               |                  |               |
| 5260.00                                                   | 65.38                | 100                 | 0                 |                        |   | 3.80              | 34.56            | 103.74                   |               |                  | <b>Ch. 52</b> |
| 5260.00                                                   |                      |                     |                   | 55.58                  | A | 3.80              | 34.56            | 93.94                    |               |                  |               |
| 5280.00                                                   | 64.26                | 100                 | 315               |                        |   | 3.81              | 34.58            | 102.65                   |               |                  | <b>Ch. 56</b> |
| 5280.00                                                   |                      |                     |                   | 54.32                  | A | 3.81              | 34.58            | 92.71                    |               |                  |               |
| 5320.00                                                   | 65.65                | 100                 | 315               |                        |   | 3.83              | 34.62            | 104.10                   |               |                  | <b>Ch. 64</b> |
| 5320.00                                                   |                      |                     |                   | 56.13                  | A | 3.83              | 34.62            | 94.58                    |               |                  |               |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.



Radiated Emissions Test Results (Continued)

**Band Edge Field Strength Measurements in 802.11n mode 20MHz Wide (5150-5350 MHz)**  
**Channels 36 & 64**  
**Continuous TX at Chain A Antenna port with Shanghai Universe Antennas**  
**Aegis Labs, Inc. File #: INTEL-090601-02**

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                      |                     |                   |                        |                   |                  |                          |               |                  |               |
|-------------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|-------------------|------------------|--------------------------|---------------|------------------|---------------|
| Freq. (MHz)                                                 | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments      |
| 5150.00                                                     |                      |                     |                   |                        |                   |                  | 55.97                    | 74.00         | -18.03           | <b>Ch. 36</b> |
| 5150.00                                                     |                      |                     |                   |                        |                   |                  | 49.64                    | 74.00         | -24.36           |               |
| 5150.00                                                     |                      |                     |                   |                        | A                 |                  | 42.49                    | 54.00         | -11.51           |               |
| 5150.00                                                     |                      |                     |                   |                        | A                 |                  | 42.50                    | 54.00         | -11.50           |               |
| 5350.00                                                     |                      |                     |                   |                        |                   |                  | 53.23                    | 74.00         | -20.77           | <b>Ch. 64</b> |
| 5350.00                                                     |                      |                     |                   |                        |                   |                  | 48.23                    | 74.00         | -25.77           |               |
| 5350.00                                                     |                      |                     |                   |                        | A                 |                  | 39.00                    | 54.00         | -15.00           |               |
| 5350.00                                                     |                      |                     |                   |                        | A                 |                  | 40.00                    | 54.00         | -14.00           |               |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                      |                     |                   |                        |                   |                  |                          |               |                  |               |
|-----------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|-------------------|------------------|--------------------------|---------------|------------------|---------------|
| Freq. (MHz)                                               | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments      |
| 5150.00                                                   |                      |                     |                   |                        |                   |                  | 58.18                    | 74.00         | -15.82           | <b>Ch. 36</b> |
| 5150.00                                                   |                      |                     |                   |                        |                   |                  | 51.85                    | 74.00         | -22.15           |               |
| 5150.00                                                   |                      |                     |                   |                        | A                 |                  | 42.03                    | 54.00         | -11.97           |               |
| 5150.00                                                   |                      |                     |                   |                        | A                 |                  | 42.04                    | 54.00         | -11.96           |               |
| 5350.00                                                   |                      |                     |                   |                        |                   |                  | 57.43                    | 74.00         | -16.57           | <b>Ch. 64</b> |
| 5350.00                                                   |                      |                     |                   |                        |                   |                  | 52.43                    | 74.00         | -21.57           |               |
| 5350.00                                                   |                      |                     |                   |                        | A                 |                  | 41.91                    | 54.00         | -12.09           |               |
| 5350.00                                                   |                      |                     |                   |                        | A                 |                  | 42.91                    | 54.00         | -11.09           |               |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = F_m - \Delta_m$$

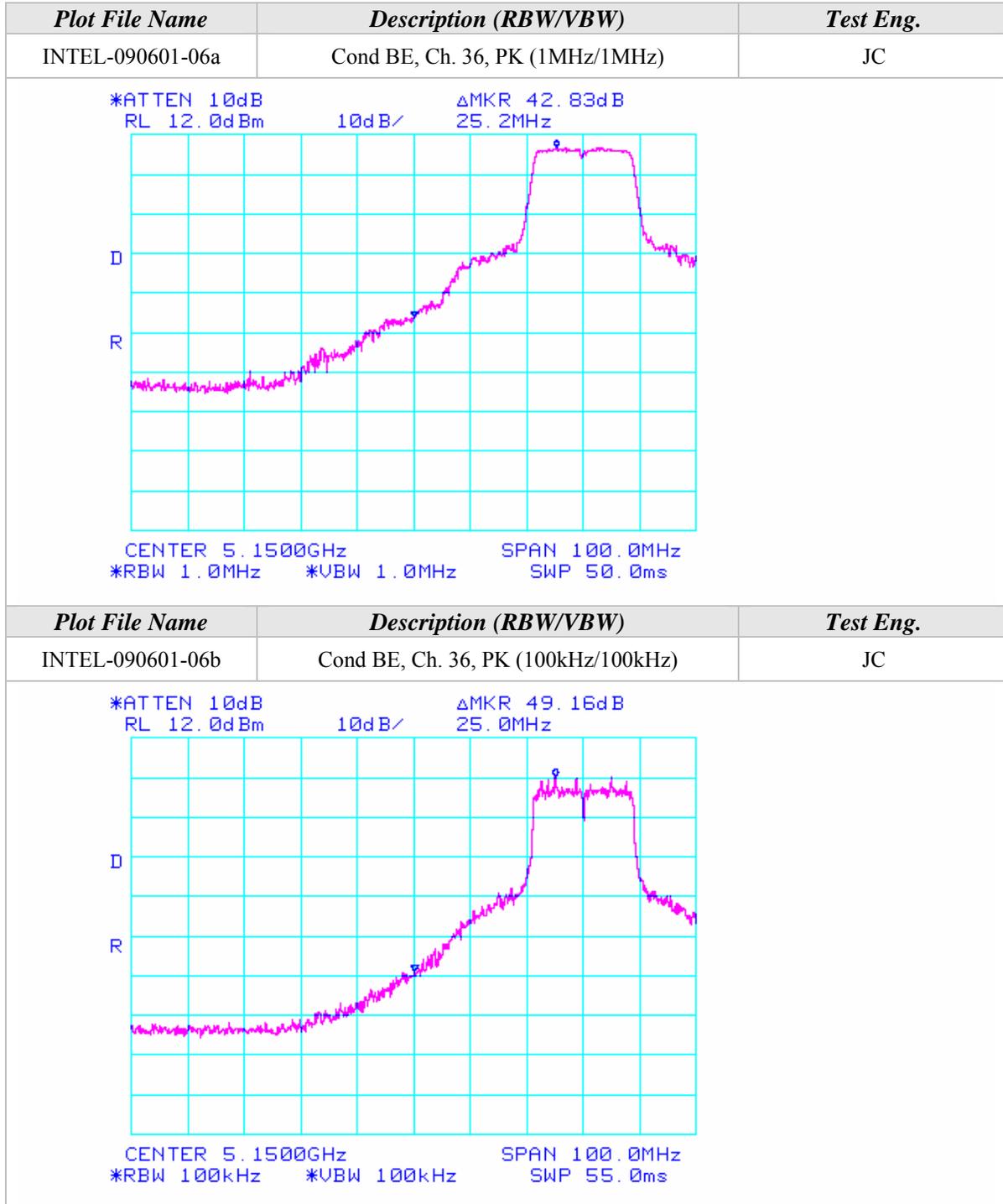
Where

BE = Band Edge Field Strength

F<sub>m</sub> = Measured Fundamental (Peak or Average)

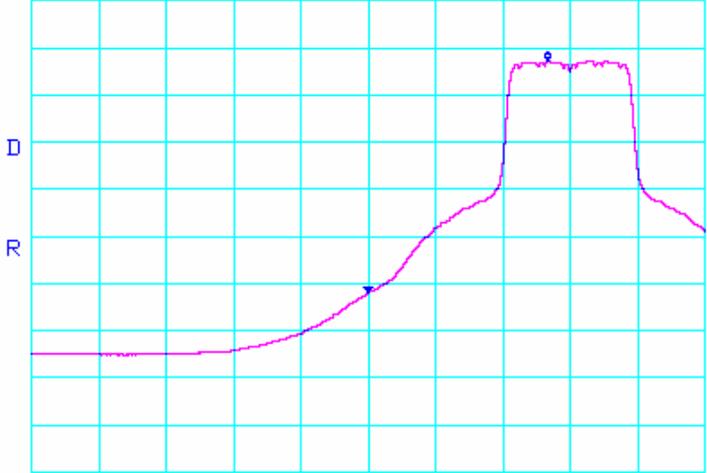
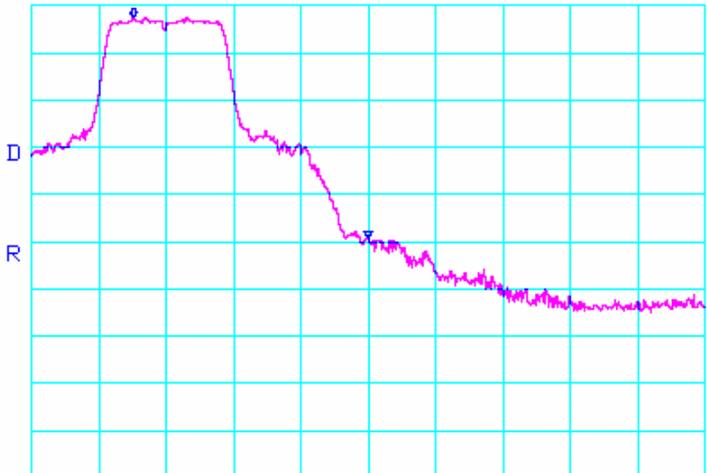
Δ<sub>m</sub> = Measured Conducted Band Edge Delta (Peak or Average)

## Band-Edge Plots (Continued)



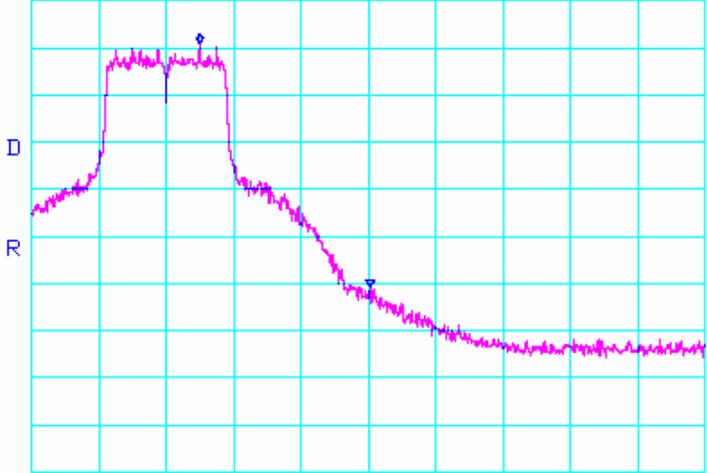
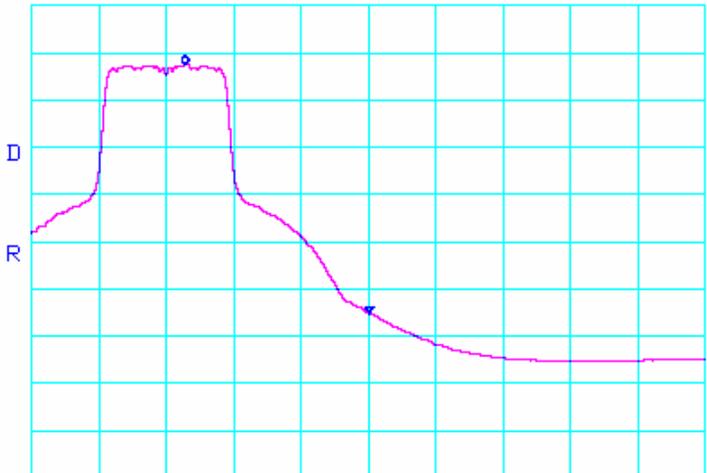


Band-Edge Plots (Continued)

| Plot File Name                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Description (RBW/VBW)           | Test Eng. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------|
| INTEL-090601-06c                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Cond BE, Ch. 36, AV (1MHz/10Hz) | JC        |
| <p>           *ATTEN 10dB                                    ΔMKR 49.17dB<br/>           RL 12.0dBm                                  10dB/                                  26.7MHz         </p>  <p>           CENTER 5.1500GHz                              SPAN 100.0MHz<br/>           *RBW 1.0MHz           *VBW 10Hz                                  SWP 37.0sec         </p>     |                                 |           |
| Plot File Name                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Description (RBW/VBW)           | Test Eng. |
| INTEL-090601-06d                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Cond BE, Ch. 64, PK (1MHz/1MHz) | JC        |
| <p>           *ATTEN 10dB                                    ΔMKR 46.67dB<br/>           RL 12.0dBm                                  10dB/                                  -34.8MHz         </p>  <p>           CENTER 5.3500GHz                              SPAN 100.0MHz<br/>           *RBW 1.0MHz           *VBW 1.0MHz                                  SWP 50.0ms         </p> |                                 |           |



Band-Edge Plots (Continued)

| Plot File Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Description (RBW/VBW)               | Test Eng. |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------|
| INTEL-090601-06e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Cond BE, Ch. 64, PK (100kHz/100kHz) | JC        |
| <div style="display: flex; justify-content: space-between;"> <div> <p>*ATTEN 10dB<br/>RL 12.0dBm</p> </div> <div> <p>10dB/</p> </div> <div> <p>ΔMKR 51.67dB<br/>-25.3MHz</p> </div> </div>  <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> <p>CENTER 5.3500GHz<br/>*RBW 100kHz</p> </div> <div> <p>*VBW 100kHz</p> </div> <div> <p>SPAN 100.0MHz<br/>SWP 55.0ms</p> </div> </div>  |                                     |           |
| Plot File Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Description (RBW/VBW)               | Test Eng. |
| INTEL-090601-06f                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Cond BE, Ch. 64, AV (1MHz/10Hz)     | JC        |
| <div style="display: flex; justify-content: space-between;"> <div> <p>*ATTEN 10dB<br/>RL 12.0dBm</p> </div> <div> <p>10dB/</p> </div> <div> <p>ΔMKR 52.67dB<br/>-27.3MHz</p> </div> </div>  <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> <p>CENTER 5.3500GHz<br/>*RBW 1.0MHz</p> </div> <div> <p>*VBW 10Hz</p> </div> <div> <p>SPAN 100.0MHz<br/>SWP 37.0sec</p> </div> </div> |                                     |           |



Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11n mode 20MHz Wide (5150-5350 MHz)  
 Channels 36, 40, 48, 52, 56, & 64  
 Continuous TX at Chain B Antenna port with Shanghai Universe Antennas  
 Aegis Labs, Inc. File #: INTEL-090601-04*

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                      |                     |                   |                        |   |                   |                  |                          |               |                  |               |
|-------------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|-------------------|------------------|--------------------------|---------------|------------------|---------------|
| Freq. (MHz)                                                 | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments      |
| 5180.00                                                     | 63.67                | 100                 | 315               |                        |   | 3.77              | 34.28            | 101.72                   |               |                  | <b>Ch. 36</b> |
| 5180.00                                                     |                      |                     |                   | 53.83                  | A | 3.77              | 34.28            | 91.88                    |               |                  |               |
| 5200.00                                                     | 64.33                | 100                 | 315               |                        |   | 3.78              | 34.30            | 102.41                   |               |                  | <b>Ch. 40</b> |
| 5200.00                                                     |                      |                     |                   | 54.67                  | A | 3.78              | 34.30            | 92.75                    |               |                  |               |
| 5240.00                                                     | 63.17                | 100                 | 0                 |                        |   | 3.80              | 34.34            | 101.31                   |               |                  | <b>Ch. 48</b> |
| 5240.00                                                     |                      |                     |                   | 54.00                  | A | 3.80              | 34.34            | 92.14                    |               |                  |               |
| 5260.00                                                     | 65.00                | 100                 | 315               |                        |   | 3.80              | 34.36            | 103.16                   |               |                  | <b>Ch. 52</b> |
| 5260.00                                                     |                      |                     |                   | 55.83                  | A | 3.80              | 34.36            | 93.99                    |               |                  |               |
| 5280.00                                                     | 64.33                | 100                 | 315               |                        |   | 3.81              | 34.38            | 102.52                   |               |                  | <b>Ch. 64</b> |
| 5280.00                                                     |                      |                     |                   | 55.00                  | A | 3.81              | 34.38            | 93.19                    |               |                  |               |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                      |                     |                   |                        |   |                   |                  |                          |               |                  |               |
|-----------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|-------------------|------------------|--------------------------|---------------|------------------|---------------|
| Freq. (MHz)                                               | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments      |
| 5180.00                                                   | 63.00                | 100                 | 315               |                        |   | 3.77              | 34.48            | 101.25                   |               |                  | <b>Ch. 36</b> |
| 5180.00                                                   |                      |                     |                   | 53.17                  | A | 3.77              | 34.48            | 91.42                    |               |                  |               |
| 5200.00                                                   | 63.67                | 100                 | 315               |                        |   | 3.78              | 34.50            | 101.95                   |               |                  | <b>Ch. 40</b> |
| 5200.00                                                   |                      |                     |                   | 54.67                  | A | 3.78              | 34.50            | 92.95                    |               |                  |               |
| 5240.00                                                   | 64.33                | 100                 | 0                 |                        |   | 3.80              | 34.54            | 102.67                   |               |                  | <b>Ch. 48</b> |
| 5240.00                                                   |                      |                     |                   | 55.00                  | A | 3.80              | 34.54            | 93.34                    |               |                  |               |
| 5260.00                                                   | 65.50                | 100                 | 315               |                        |   | 3.80              | 34.56            | 103.86                   |               |                  | <b>Ch. 52</b> |
| 5260.00                                                   |                      |                     |                   | 55.83                  | A | 3.80              | 34.56            | 94.19                    |               |                  |               |
| 5280.00                                                   | 64.67                | 100                 | 315               |                        |   | 3.81              | 34.58            | 103.06                   |               |                  | <b>Ch. 64</b> |
| 5280.00                                                   |                      |                     |                   | 54.50                  | A | 3.81              | 34.58            | 92.89                    |               |                  |               |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.



Radiated Emissions Test Results (Continued)

**Band Edge Field Strength Measurements in 802.11n mode 20MHz Wide (5150-5350 MHz)**  
**Channels 36 & 64**  
**Continuous TX at Chain B Antenna port with Shanghai Universe Antennas**  
**Aegis Labs, Inc. File #: INTEL-090601-04**

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                      |                     |                   |                        |                   |                  |                          |               |                  |               |
|-------------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|-------------------|------------------|--------------------------|---------------|------------------|---------------|
| Freq. (MHz)                                                 | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments      |
| 5150.00                                                     |                      |                     |                   |                        |                   |                  | 58.55                    | 74.00         | -15.45           | <b>Ch. 36</b> |
| 5150.00                                                     |                      |                     |                   |                        |                   |                  | 53.06                    | 74.00         | -20.94           |               |
| 5150.00                                                     |                      |                     |                   |                        | A                 |                  | 43.71                    | 54.00         | -10.29           |               |
| 5150.00                                                     |                      |                     |                   |                        | A                 |                  | 43.22                    | 54.00         | -10.78           |               |
| 5350.00                                                     |                      |                     |                   |                        |                   |                  | 56.42                    | 74.00         | -17.58           | <b>Ch. 64</b> |
| 5350.00                                                     |                      |                     |                   |                        |                   |                  | 50.08                    | 74.00         | -23.92           |               |
| 5350.00                                                     |                      |                     |                   |                        | A                 |                  | 41.75                    | 54.00         | -12.25           |               |
| 5350.00                                                     |                      |                     |                   |                        | A                 |                  | 40.58                    | 54.00         | -13.42           |               |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                      |                     |                   |                        |                   |                  |                          |               |                  |               |
|-----------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|-------------------|------------------|--------------------------|---------------|------------------|---------------|
| Freq. (MHz)                                               | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments      |
| 5150.00                                                   |                      |                     |                   |                        |                   |                  | 58.08                    | 74.00         | -15.92           | <b>Ch. 36</b> |
| 5150.00                                                   |                      |                     |                   |                        |                   |                  | 52.59                    | 74.00         | -21.41           |               |
| 5150.00                                                   |                      |                     |                   |                        | A                 |                  | 43.25                    | 54.00         | -10.75           |               |
| 5150.00                                                   |                      |                     |                   |                        | A                 |                  | 42.76                    | 54.00         | -11.24           |               |
| 5350.00                                                   |                      |                     |                   |                        |                   |                  | 58.28                    | 74.00         | -15.72           | <b>Ch. 64</b> |
| 5350.00                                                   |                      |                     |                   |                        |                   |                  | 51.94                    | 74.00         | -22.06           |               |
| 5350.00                                                   |                      |                     |                   |                        | A                 |                  | 43.61                    | 54.00         | -10.39           |               |
| 5350.00                                                   |                      |                     |                   |                        | A                 |                  | 42.44                    | 54.00         | -11.56           |               |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = F_m - \Delta m$$

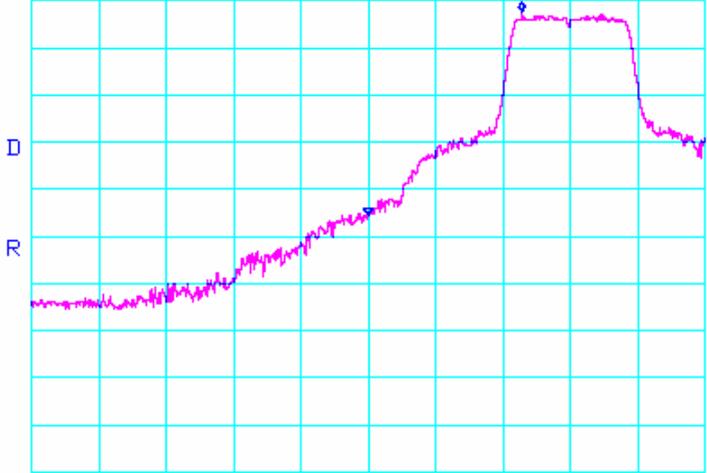
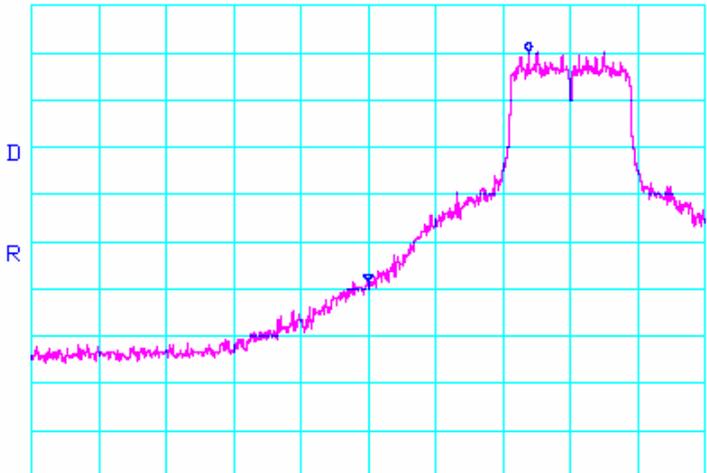
Where

BE = Band Edge Field Strength

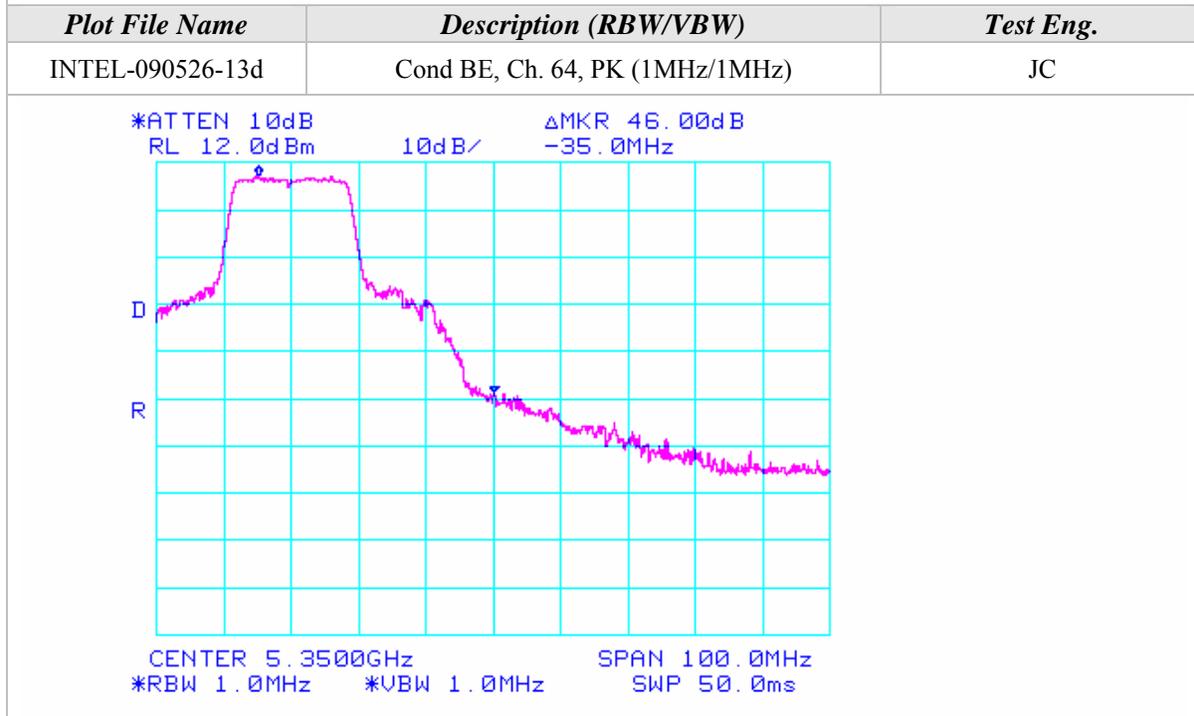
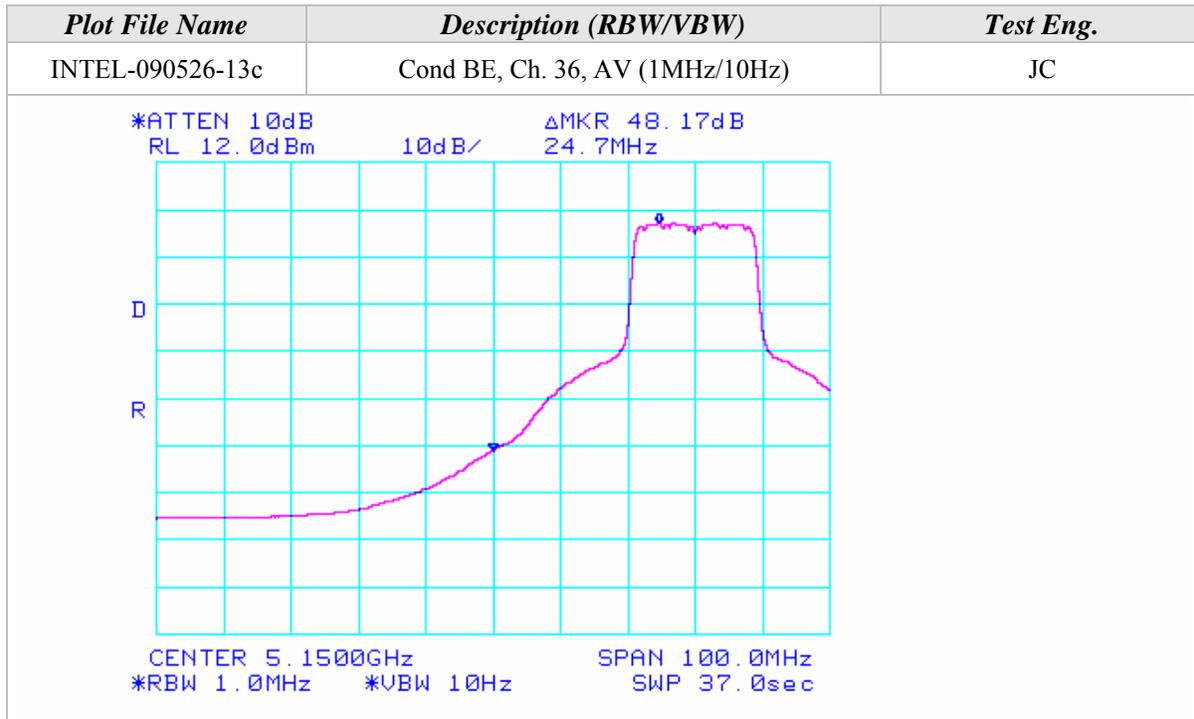
F<sub>m</sub> = Measured Fundamental (Peak or Average)

Δ<sub>m</sub> = Measured Conducted Band Edge Delta (Peak or Average)

## Band-Edge Plots (Continued)

| <b>Plot File Name</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Description (RBW/VBW)</b>        | <b>Test Eng.</b> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------|
| INTEL-090526-13a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cond BE, Ch. 36, PK (1MHz/1MHz)     | JC               |
| <div style="display: flex; justify-content: space-between;"> <div style="font-family: monospace; font-size: small;">                     *ATTEN 10dB<br/>                     RL 12.0dBm                 </div> <div style="font-family: monospace; font-size: small;">                     10dB/                 </div> <div style="font-family: monospace; font-size: small;">                     ΔMKR 43.17dB<br/>                     22.8MHz                 </div> </div>  <div style="display: flex; justify-content: space-around; margin-top: 10px; font-family: monospace; font-size: small;"> <div>CENTER 5.1500GHz</div> <div>SPAN 100.0MHz</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px; font-family: monospace; font-size: small;"> <div>*RBW 1.0MHz</div> <div>*VBW 1.0MHz</div> <div>SWP 50.0ms</div> </div>   |                                     |                  |
| <b>Plot File Name</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Description (RBW/VBW)</b>        | <b>Test Eng.</b> |
| INTEL-090526-13b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cond BE, Ch. 36, PK (100kHz/100kHz) | JC               |
| <div style="display: flex; justify-content: space-between;"> <div style="font-family: monospace; font-size: small;">                     *ATTEN 10dB<br/>                     RL 12.0dBm                 </div> <div style="font-family: monospace; font-size: small;">                     10dB/                 </div> <div style="font-family: monospace; font-size: small;">                     ΔMKR 48.66dB<br/>                     23.8MHz                 </div> </div>  <div style="display: flex; justify-content: space-around; margin-top: 10px; font-family: monospace; font-size: small;"> <div>CENTER 5.1500GHz</div> <div>SPAN 100.0MHz</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px; font-family: monospace; font-size: small;"> <div>*RBW 100kHz</div> <div>*VBW 100kHz</div> <div>SWP 55.0ms</div> </div> |                                     |                  |

Band-Edge Plots (Continued)





Band-Edge Plots (Continued)

| <i>Plot File Name</i>                                                                                                                                                                                                   | <i>Description (RBW/VBW)</i>        | <i>Test Eng.</i> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------|
| INTEL-090526-13e                                                                                                                                                                                                        | Cond BE, Ch. 64, PK (100kHz/100kHz) | JC               |
| <p>*ATTEN 10dB          ΔMKR 52.34dB<br/>           RL 12.0dBm        10dB/        -31.3MHz</p> <p>CENTER 5.3500GHz                  SPAN 100.0MHz<br/>           *RBW 100kHz        *VBW 100kHz        SWP 55.0ms</p>  |                                     |                  |
| <i>Plot File Name</i>                                                                                                                                                                                                   | <i>Description (RBW/VBW)</i>        | <i>Test Eng.</i> |
| INTEL-090526-13f                                                                                                                                                                                                        | Cond BE, Ch. 64, AV (1MHz/10Hz)     | JC               |
| <p>*ATTEN 10dB          ΔMKR 51.17dB<br/>           RL 12.0dBm        10dB/        -35.8MHz</p> <p>CENTER 5.3500GHz                  SPAN 100.0MHz<br/>           *RBW 1.0MHz        *VBW 10Hz          SWP 37.0sec</p> |                                     |                  |



Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11n mode 20MHz Wide (5150-5350 MHz)  
Channels 36, 40, & 48  
Continuous TX at Chain A & B Antenna ports with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-07*

**RADIATED EMISSIONS - Horizontal Antenna Polarization**

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Channel/Chain Tested |                 |
|-------------|----------------------|---------------------|-------------------|------------------------|--------------------|-------------------|------------------|--------------------------|---------------|------------------|----------------------|-----------------|
| 3466.66     | 52.33                | 100                 | 315               |                        |                    | 47.64             | 3.06             | 32.79                    | 40.55         | 68.00            | -27.45               | <b>Ch. 40/A</b> |
| 3466.66     | 51.00                | 100                 | 270               |                        |                    | 47.64             | 3.06             | 32.79                    | 39.22         | 68.00            | -28.78               | <b>Ch. 40/</b>  |
| 6933.33     | 52.33                | 100                 | 0                 |                        |                    | 46.25             | 4.40             | 35.79                    | 46.27         | 68.00            | -21.73               | <b>B</b>        |
| 3453.33     | 52.17                | 100                 | 315               |                        |                    | 47.64             | 3.06             | 32.79                    | 40.38         | 68.00            | -27.62               | <b>Ch. 36/</b>  |
| 6906.66     | 54.33                | 100                 | 0                 |                        |                    | 46.29             | 4.39             | 35.78                    | 48.21         | 68.00            | -19.79               | <b>B</b>        |
| 3493.33     | 52.83                | 100                 | 315               |                        |                    | 47.62             | 3.06             | 32.80                    | 41.07         | 68.00            | -26.93               | <b>Ch. 48/</b>  |
| 6986.66     | 51.67                | 100                 | 0                 |                        |                    | 46.16             | 4.42             | 35.80                    | 45.73         | 68.00            | -22.27               | <b>B</b>        |

**RADIATED EMISSIONS - Vertical Antenna Polarization**

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments |                |
|-------------|----------------------|---------------------|-------------------|------------------------|--------------------|-------------------|------------------|--------------------------|---------------|------------------|----------|----------------|
| 3466.66     | 53.83                | 100                 | 0                 |                        |                    | 47.64             | 3.06             | 32.59                    | 41.85         | 68.00            | -26.15   | <b>Ch. 40/</b> |
| 6933.33     | 53.17                | 100                 | 45                |                        |                    | 46.25             | 4.40             | 35.59                    | 46.91         | 68.00            | -21.09   | <b>A</b>       |
| 3466.66     | 54.00                | 100                 | 0                 |                        |                    | 47.64             | 3.06             | 32.59                    | 42.02         | 68.00            | -25.98   | <b>Ch. 40/</b> |
| 6933.33     | 54.17                | 100                 | 45                |                        |                    | 46.25             | 4.40             | 35.59                    | 47.91         | 68.00            | -20.09   | <b>B</b>       |
| 3453.33     | 54.50                | 100                 | 0                 |                        |                    | 47.64             | 3.06             | 32.59                    | 42.51         | 68.00            | -25.49   | <b>Ch. 36/</b> |
| 6906.66     | 54.33                | 100                 | 45                |                        |                    | 46.29             | 4.39             | 35.58                    | 48.01         | 68.00            | -19.99   | <b>B</b>       |
| 3493.33     | 54.17                | 100                 | 0                 |                        |                    | 47.62             | 3.06             | 32.60                    | 42.21         | 68.00            | -25.79   | <b>Ch. 48/</b> |
| 6986.66     | 52.67                | 100                 | 45                |                        |                    | 46.16             | 4.42             | 35.60                    | 46.53         | 68.00            | -21.47   | <b>B</b>       |



Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11n mode 20MHz Wide (5150-5350 MHz)  
Channels 52, 56, & 64  
Continuous TX at Chain A & B Antenna ports with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-07*

**RADIATED EMISSIONS - Horizontal Antenna Polarization**

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +/-FAIL | Channel/Chain Tested |
|-------------|----------------------|---------------------|-------------------|------------------------|--------------------|-------------------|------------------|--------------------------|---------------|-------------------|----------------------|
| 3520.00     | 52.67                | 100                 | 0                 |                        | 47.62              | 3.08              | 32.82            | 40.96                    | 68.00         | -27.04            | <b>Ch. 56/A</b>      |
| 7040.00     | 51.17                | 100                 | 45                |                        | 46.10              | 4.44              | 35.79            | 45.31                    | 68.00         | -22.69            | <b>Ch. 56/B</b>      |
| 3506.66     | 53.67                | 100                 | 0                 |                        | 47.62              | 3.07              | 32.81            | 41.93                    | 68.00         | -26.07            | <b>Ch. 52/</b>       |
| 7013.33     | 52.17                | 100                 | 0                 |                        | 46.13              | 4.43              | 35.80            | 46.28                    | 68.00         | -21.72            | <b>B</b>             |
| 3546.66     | 53.50                | 100                 | 0                 |                        | 47.62              | 3.12              | 32.86            | 41.85                    | 68.00         | -26.15            | <b>Ch. 64/</b>       |
| 7093.33     | 52.33                | 100                 | 0                 |                        | 46.05              | 4.46              | 35.78            | 46.53                    | 68.00         | -21.47            | <b>B</b>             |

**RADIATED EMISSIONS - Vertical Antenna Polarization**

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +/-FAIL | Comments       |
|-------------|----------------------|---------------------|-------------------|------------------------|--------------------|-------------------|------------------|--------------------------|---------------|-------------------|----------------|
| 3520.00     | 53.67                | 100                 | 0                 |                        | 47.62              | 3.08              | 32.63            | 41.77                    | 68.00         | -26.23            | <b>Ch. 56/</b> |
| 7040.00     | 52.67                | 100                 | 90                |                        | 46.10              | 4.44              | 35.61            | 46.62                    | 68.00         | -21.38            | <b>A</b>       |
| 3520.00     | 53.67                | 100                 | 0                 |                        | 47.62              | 3.08              | 32.63            | 41.77                    | 68.00         | -26.23            | <b>Ch. 56/</b> |
| 7040.00     | 52.50                | 100                 | 90                |                        | 46.10              | 4.44              | 35.61            | 46.45                    | 68.00         | -21.55            | <b>B</b>       |
| 3506.66     | 53.83                | 100                 | 0                 |                        | 47.62              | 3.07              | 32.61            | 41.89                    | 68.00         | -26.11            | <b>Ch. 52/</b> |
| 7013.33     | 53.67                | 100                 | 45                |                        | 46.13              | 4.43              | 35.60            | 47.58                    | 68.00         | -20.42            | <b>A</b>       |
| 10519.98    | 50.17                | 100                 | 45                |                        | 45.29              | 5.56              | 37.52            | 47.97                    | 68.00         | -20.03            |                |
| 3546.66     | 53.33                | 100                 | 45                |                        | 47.62              | 3.12              | 32.67            | 41.50                    | 68.00         | -26.50            | <b>Ch. 64/</b> |
| 7093.33     | 54.83                | 100                 | 90                |                        | 46.05              | 4.46              | 35.62            | 48.86                    | 68.00         | -19.14            | <b>A</b>       |
| 10639.98    | 51.00                | 100                 | 0                 |                        | 45.28              | 5.59              | 37.67            | 48.97                    | 68.00         | -19.03            |                |



Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11n mode 20MHz Wide (5150-5350 MHz)  
Channels 36, 40, & 48  
Continuous TX at Dual Chain AB Antenna ports with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-07*

**RADIATED EMISSIONS - Horizontal Antenna Polarization**

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Channel/Chain Tested |                |
|-------------|----------------------|---------------------|-------------------|------------------------|--------------------|-------------------|------------------|--------------------------|---------------|------------------|----------------------|----------------|
| 3453.33     | 53.33                | 100                 | 225               |                        |                    | 50.71             | 3.06             | 32.78                    | 38.47         | 68.00            | -29.53               | <b>Ch. 36/</b> |
| 6906.66     | 58.00                | 100                 | 180               |                        |                    | 50.50             | 4.39             | 35.68                    | 47.57         | 68.00            | -20.43               | <b>AB</b>      |
| 10359.99    | 58.33                | 100                 | 180               |                        |                    | 50.39             | 5.52             | 37.42                    | 50.88         | 68.00            | -17.12               |                |
| 3466.66     | 52.17                | 100                 | 45                |                        |                    | 50.72             | 3.06             | 32.79                    | 37.30         | 68.00            | -30.70               | <b>Ch. 40/</b> |
| 6933.33     | 55.50                | 100                 | 135               |                        |                    | 50.48             | 4.40             | 35.69                    | 45.11         | 68.00            | -22.89               | <b>AB</b>      |
| 10399.98    | 52.67                | 100                 | 135               |                        |                    | 50.40             | 5.53             | 37.44                    | 45.24         | 68.00            | -22.76               |                |
| 3493.33     | 55.17                | 100                 | 225               |                        |                    | 50.75             | 3.06             | 32.80                    | 40.28         | 68.00            | -27.72               | <b>Ch. 48/</b> |
| 6986.66     | 57.83                | 100                 | 180               |                        |                    | 50.44             | 4.42             | 35.70                    | 47.51         | 68.00            | -20.49               | <b>AB</b>      |
| 10480.00    | 50.50                | 100                 | 180               |                        |                    | 50.42             | 5.55             | 37.49                    | 43.12         | 68.00            | -24.88               |                |

**RADIATED EMISSIONS - Vertical Antenna Polarization**

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments |                |
|-------------|----------------------|---------------------|-------------------|------------------------|--------------------|-------------------|------------------|--------------------------|---------------|------------------|----------|----------------|
| 3453.33     | 53.67                | 100                 | 135               |                        |                    | 50.71             | 3.06             | 32.87                    | 38.90         | 68.00            | -29.10   | <b>Ch. 36/</b> |
| 6906.66     | 56.67                | 100                 | 225               |                        |                    | 50.50             | 4.39             | 35.60                    | 46.16         | 68.00            | -21.84   | <b>AB</b>      |
| 3466.66     | 53.83                | 100                 | 0                 |                        |                    | 50.72             | 3.06             | 32.88                    | 39.05         | 68.00            | -28.95   | <b>Ch. 40/</b> |
| 6933.33     | 54.67                | 100                 | 180               |                        |                    | 50.48             | 4.40             | 35.60                    | 44.19         | 68.00            | -23.81   | <b>AB</b>      |
| 10399.99    | 53.33                | 100                 | 135               |                        |                    | 50.40             | 5.53             | 37.44                    | 45.90         | 68.00            | -22.10   |                |
| 3493.33     | 55.17                | 100                 | 135               |                        |                    | 50.75             | 3.06             | 32.90                    | 40.37         | 68.00            | -27.63   | <b>Ch. 48/</b> |
| 6986.66     | 53.50                | 100                 | 180               |                        |                    | 50.44             | 4.42             | 35.60                    | 43.08         | 68.00            | -24.92   | <b>AB</b>      |



Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11n mode 20MHz Wide (5150-5350 MHz)  
Channels 52, 56, & 64  
Continuous TX at Dual Chain AB Antenna ports with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-07*

**RADIATED EMISSIONS - Horizontal Antenna Polarization**

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +/-FAIL | Channel/ Chain Tested |                |
|-------------|----------------------|---------------------|-------------------|------------------------|--------------------|-------------------|------------------|--------------------------|---------------|-------------------|-----------------------|----------------|
| 3506.66     | 53.17                | 100                 | 315               |                        |                    | 50.75             | 3.07             | 32.81                    | 38.29         | 68.00             | -29.71                | <b>Ch. 52/</b> |
| 7013.32     | 57.83                | 100                 | 135               |                        |                    | 50.42             | 4.43             | 35.71                    | 47.55         | 68.00             | -20.45                | <b>AB</b>      |
| 3520.00     | 52.50                | 100                 | 270               |                        |                    | 50.74             | 3.08             | 32.82                    | 37.67         | 68.00             | -30.33                | <b>Ch. 56/</b> |
| 7040.00     | 52.33                | 100                 | 225               |                        |                    | 50.41             | 4.44             | 35.72                    | 42.09         | 68.00             | -25.91                | <b>AB</b>      |
| 3546.66     | 54.33                | 100                 | 270               |                        |                    | 50.71             | 3.12             | 32.86                    | 39.59         | 68.00             | -28.41                | <b>Ch. 64/</b> |
| 7093.32     | 54.17                | 100                 | 135               |                        |                    | 50.38             | 4.46             | 35.76                    | 44.01         | 68.00             | -23.99                | <b>AB</b>      |

**RADIATED EMISSIONS - Vertical Antenna Polarization**

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +/-FAIL | Comments |                |
|-------------|----------------------|---------------------|-------------------|------------------------|--------------------|-------------------|------------------|--------------------------|---------------|-------------------|----------|----------------|
| 3506.66     | 54.17                | 100                 | 135               |                        |                    | 50.75             | 3.07             | 32.91                    | 39.39         | 68.00             | -28.61   | <b>Ch. 52/</b> |
| 7013.32     | 54.50                | 100                 | 135               |                        |                    | 50.42             | 4.43             | 35.61                    | 44.12         | 68.00             | -23.88   | <b>AB</b>      |
| 10520.00    | 51.33                | 100                 | 135               |                        |                    | 50.43             | 5.56             | 37.52                    | 43.98         | 68.00             | -24.02   |                |
| 3520.00     | 53.50                | 100                 | 0                 |                        |                    | 50.74             | 3.08             | 32.92                    | 38.76         | 68.00             | -29.24   | <b>Ch. 56/</b> |
| 7040.00     | 54.33                | 100                 | 135               |                        |                    | 50.41             | 4.44             | 35.64                    | 44.00         | 68.00             | -24.00   | <b>AB</b>      |
| 10560.00    | 53.67                | 100                 | 135               |                        |                    | 50.43             | 5.57             | 37.55                    | 46.36         | 68.00             | -21.64   |                |
| 3546.66     | 53.83                | 100                 | 135               |                        |                    | 50.71             | 3.12             | 32.95                    | 39.18         | 68.00             | -28.82   | <b>Ch. 64/</b> |
| 7093.32     | 53.33                | 100                 | 135               |                        |                    | 50.38             | 4.46             | 35.69                    | 43.10         | 68.00             | -24.90   | <b>AB</b>      |

**RADIATED EMISSIONS TEST RESULTS**

|                       |                                                                                                                                       |                        |              |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                                     | <b>DATE:</b>           | 08/17/09     |
| <b>EUT:</b>           | Intel® Centrino® Ultimate-N 6200                                                                                                      | <b>PROJECT NUMBER:</b> | INTEL-090601 |
| <b>MODEL NUMBER:</b>  | 622ANHMW                                                                                                                              | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 0015005A3C7C                                                                                                                          | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in an extender board connected to the host laptop's mini PCI slot in <b>802.11n (5150-5350 MHz) mode 40MHz Wide.</b> | <b>TEMPERATURE:</b>    | 24° C        |
|                       |                                                                                                                                       | <b>HUMIDITY:</b>       | 46% RH       |
|                       |                                                                                                                                       | <b>TIME:</b>           | 9:30 AM      |

|                     |                                                                                                                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description:</b> | Radiated RF Emissions (1 GHz – 18 GHz)                                                                                                                                                      |
| <b>Results:</b>     | <b>PASSED</b> Horizontal and Vertical Antenna Polarizations Class B Limits                                                                                                                  |
| <b>Note:</b>        | Radiated Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. <ul style="list-style-type: none"> <li>• 120VAC / 60 Hz.</li> </ul> |

| <b>Unwanted Spurious Emissions Limits</b> |                              |                                                                        |                                                                              |
|-------------------------------------------|------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>Frequency (MHz)</b>                    | <b>Field Strength (uV/m)</b> | <b>Field Strength (dBuV/m)<br/>(Emissions in the restricted bands)</b> | <b>Field Strength (dBm/MHz)<br/>(Emissions outside the restricted bands)</b> |
| Above 960                                 | 500                          | 54.00 (Average)<br>74.00 (Peak)                                        | < -20 dBc                                                                    |

## Radiated Emissions Sample Calculations

$$\text{Corrected Meter Reading} = \text{Meter Reading} + F + C - D$$

Where, F = Antenna Factor

C = Cable Factor

G = Amplifier Gain

D = Distance Factor (if applicable)

Therefore, the equation for determining the Corrected Meter Reading Limit (CML) is:

$$\text{CML} = \text{Specification Limit} - F - C + D$$



Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11n mode 40MHz Wide (5150-5350 MHz)  
Channels 38, 46, 54, & 62  
Continuous TX at Chain A Antenna port with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-02*

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                             |                            |                          |                               |   |                          |                         |                                 |                      |                         |                 |
|-------------------------------------------------------------|-----------------------------|----------------------------|--------------------------|-------------------------------|---|--------------------------|-------------------------|---------------------------------|----------------------|-------------------------|-----------------|
| <i>Freq. (MHz)</i>                                          | <i>Meter Reading (dBuV)</i> | <i>Antenna Height (cm)</i> | <i>Azimuth (degrees)</i> | <i>Quasi pk or AVG (dBuV)</i> |   | <i>Cable Factor (dB)</i> | <i>Ant. Factor (dB)</i> | <i>Corrected Reading (dBuV)</i> | <i>Limits (dBuV)</i> | <i>Diff (dB) +=FAIL</i> | <i>Comments</i> |
| 5190.00                                                     | 59.11                       | 100                        | 45                       |                               |   | 3.78                     | 34.29                   | 97.18                           |                      |                         | <b>Ch. 38</b>   |
| 5190.00                                                     |                             |                            |                          | 49.59                         | A | 3.78                     | 34.29                   | 87.66                           |                      |                         |                 |
| 5230.00                                                     | 60.54                       | 100                        | 0                        |                               |   | 3.79                     | 34.33                   | 98.66                           |                      |                         | <b>Ch. 46</b>   |
| 5230.00                                                     |                             |                            |                          | 50.76                         | A | 3.79                     | 34.33                   | 88.88                           |                      |                         |                 |
| 5270.00                                                     | 61.20                       | 100                        | 0                        |                               |   | 3.81                     | 34.37                   | 99.38                           |                      |                         | <b>Ch. 54</b>   |
| 5270.00                                                     |                             |                            |                          | 51.84                         | A | 3.81                     | 34.37                   | 90.02                           |                      |                         |                 |
| 5310.00                                                     | 60.79                       | 100                        | 45                       |                               |   | 3.82                     | 34.41                   | 99.02                           |                      |                         | <b>Ch. 62</b>   |
| 5310.00                                                     |                             |                            |                          | 51.16                         | A | 3.82                     | 34.41                   | 89.39                           |                      |                         |                 |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                             |                            |                          |                               |   |                          |                         |                                 |                      |                         |                 |
|-----------------------------------------------------------|-----------------------------|----------------------------|--------------------------|-------------------------------|---|--------------------------|-------------------------|---------------------------------|----------------------|-------------------------|-----------------|
| <i>Freq. (MHz)</i>                                        | <i>Meter Reading (dBuV)</i> | <i>Antenna Height (cm)</i> | <i>Azimuth (degrees)</i> | <i>Quasi pk or AVG (dBuV)</i> |   | <i>Cable Factor (dB)</i> | <i>Ant. Factor (dB)</i> | <i>Corrected Reading (dBuV)</i> | <i>Limits (dBuV)</i> | <i>Diff (dB) +=FAIL</i> | <i>Comments</i> |
| 5190.00                                                   | 60.08                       | 100                        | 315                      |                               |   | 3.78                     | 34.49                   | 98.35                           |                      |                         | <b>Ch. 38</b>   |
| 5190.00                                                   |                             |                            |                          | 49.41                         | A | 3.78                     | 34.49                   | 87.68                           |                      |                         |                 |
| 5230.00                                                   | 61.57                       | 100                        | 315                      |                               |   | 3.79                     | 34.53                   | 99.89                           |                      |                         | <b>Ch. 46</b>   |
| 5230.00                                                   |                             |                            |                          | 51.63                         | A | 3.79                     | 34.53                   | 89.95                           |                      |                         |                 |
| 5270.00                                                   | 62.69                       | 100                        | 45                       |                               |   | 3.81                     | 34.57                   | 101.07                          |                      |                         | <b>Ch. 54</b>   |
| 5270.00                                                   |                             |                            |                          | 52.49                         | A | 3.81                     | 34.57                   | 90.87                           |                      |                         |                 |
| 5310.00                                                   | 61.24                       | 100                        | 45                       |                               |   | 3.82                     | 34.61                   | 99.67                           |                      |                         | <b>Ch. 62</b>   |
| 5310.00                                                   |                             |                            |                          | 50.96                         | A | 3.82                     | 34.61                   | 89.39                           |                      |                         |                 |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.



Radiated Emissions Test Results (Continued)

**Band Edge Field Strength Measurements in 802.11n mode 40MHz Wide (5150-5350 MHz)**  
**Channels 38 & 62**  
**Continuous TX at Chain A Antenna port with Shanghai Universe Antennas**  
**Aegis Labs, Inc. File #: INTEL-090601-02**

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                      |                     |                   |                        |                   |                  |                          |               |                  |               |
|-------------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|-------------------|------------------|--------------------------|---------------|------------------|---------------|
| Freq. (MHz)                                                 | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments      |
| 5150.00                                                     |                      |                     |                   |                        |                   |                  | 63.02                    | 74.00         | -10.98           | <b>Ch. 38</b> |
| 5150.00                                                     |                      |                     |                   |                        |                   |                  | 58.35                    | 74.00         | -15.65           |               |
| 5150.00                                                     |                      |                     |                   |                        | A                 |                  | 50.83                    | 54.00         | -3.17            |               |
| 5150.00                                                     |                      |                     |                   |                        | A                 |                  | 48.83                    | 54.00         | -5.17            |               |
| 5350.00                                                     |                      |                     |                   |                        |                   |                  | 63.02                    | 74.00         | -10.98           | <b>Ch. 62</b> |
| 5350.00                                                     |                      |                     |                   |                        |                   |                  | 60.02                    | 74.00         | -13.98           |               |
| 5350.00                                                     |                      |                     |                   |                        | A                 |                  | 50.56                    | 54.00         | -3.44            |               |
| 5350.00                                                     |                      |                     |                   |                        | A                 |                  | 50.39                    | 54.00         | -3.61            |               |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                      |                     |                   |                        |                   |                  |                          |               |                  |               |
|-----------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|-------------------|------------------|--------------------------|---------------|------------------|---------------|
| Freq. (MHz)                                               | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments      |
| 5150.00                                                   |                      |                     |                   |                        |                   |                  | 64.19                    | 74.00         | -9.81            | <b>Ch. 38</b> |
| 5150.00                                                   |                      |                     |                   |                        |                   |                  | 59.52                    | 74.00         | -14.48           |               |
| 5150.00                                                   |                      |                     |                   |                        | A                 |                  | 50.85                    | 54.00         | -3.15            |               |
| 5150.00                                                   |                      |                     |                   |                        | A                 |                  | 48.85                    | 54.00         | -5.15            |               |
| 5350.00                                                   |                      |                     |                   |                        |                   |                  | 63.67                    | 74.00         | -10.33           | <b>Ch. 62</b> |
| 5350.00                                                   |                      |                     |                   |                        |                   |                  | 60.67                    | 74.00         | -13.33           |               |
| 5350.00                                                   |                      |                     |                   |                        | A                 |                  | 50.56                    | 54.00         | -3.44            |               |
| 5350.00                                                   |                      |                     |                   |                        | A                 |                  | 50.39                    | 54.00         | -3.61            |               |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = F_m - \Delta m$$

Where

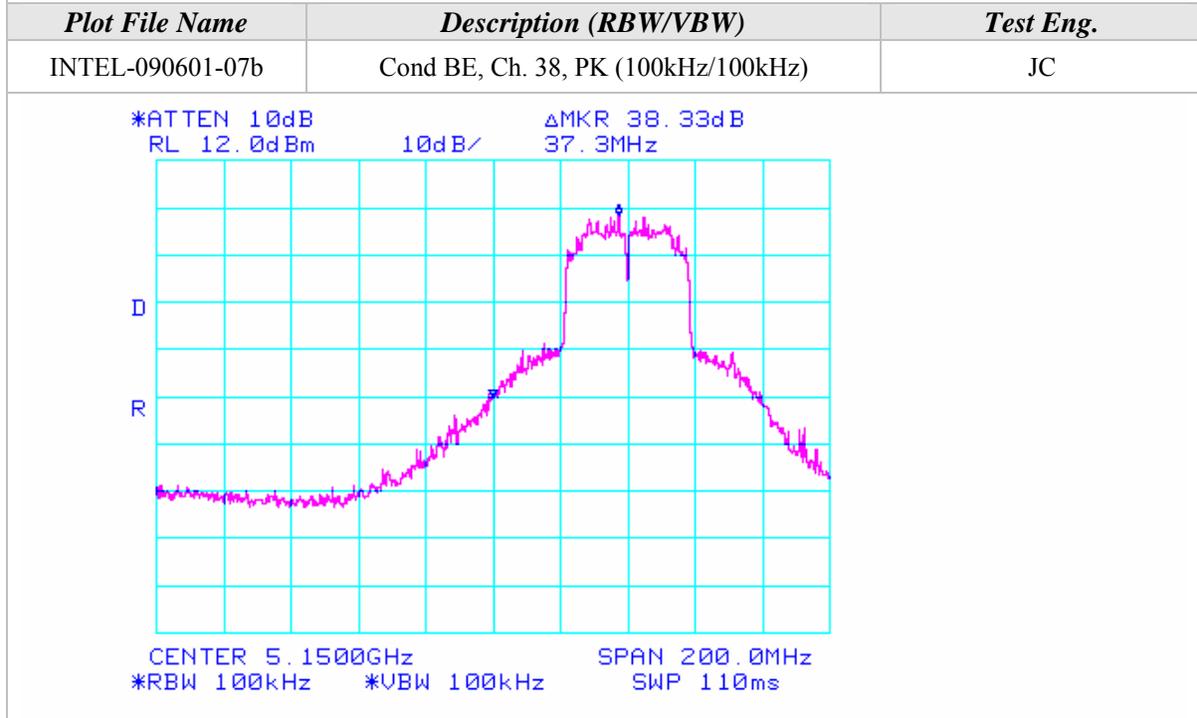
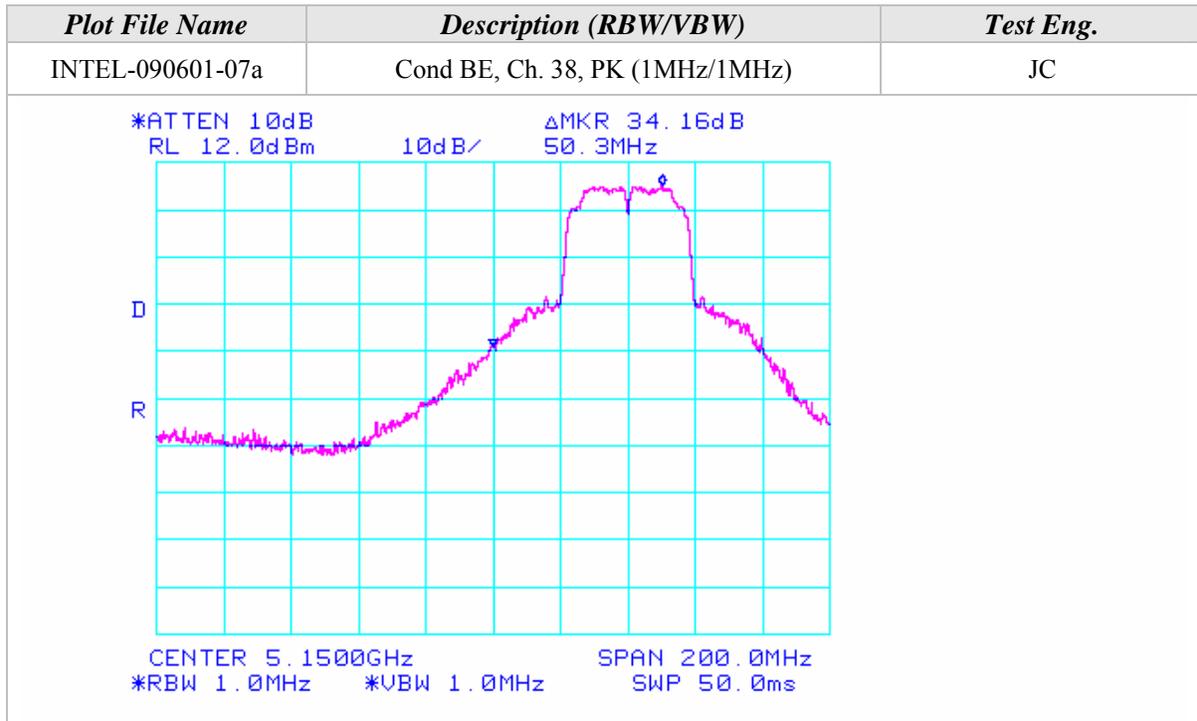
BE = Band Edge Field Strength

F<sub>m</sub> = Measured Fundamental (Peak or Average)

Δ<sub>m</sub> = Measured Conducted Band Edge Delta (Peak or Average)



Band-Edge Plots (Continued)





Band-Edge Plots (Continued)

| <i>Plot File Name</i>                                                                                                                                                                                                                                        | <i>Description (RBW/VBW)</i>    | <i>Test Eng.</i> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------|
| INTEL-090601-07c                                                                                                                                                                                                                                             | Cond BE, Ch. 38, AV (1MHz/10Hz) | JC               |
| <p>*ATTEN 10dB                    ΔMKR 36.83dB<br/>RL 12.0dBm                    10dB/                    28.7MHz</p> <p>CENTER 5.1500GHz                    SPAN 200.0MHz<br/>*RBW 1.0MHz                    *VBW 10Hz                    SWP 74.0sec</p>   |                                 |                  |
| <i>Plot File Name</i>                                                                                                                                                                                                                                        | <i>Description (RBW/VBW)</i>    | <i>Test Eng.</i> |
| INTEL-090601-07d                                                                                                                                                                                                                                             | Cond BE, Ch. 62, PK (1MHz/1MHz) | JC               |
| <p>*ATTEN 10dB                    ΔMKR 36.00dB<br/>RL 12.0dBm                    10dB/                    -30.0MHz</p> <p>CENTER 5.3500GHz                    SPAN 200.0MHz<br/>*RBW 1.0MHz                    *VBW 1.0MHz                    SWP 50.0ms</p> |                                 |                  |

### Band-Edge Plots (Continued)

| <i>Plot File Name</i>                                                                                                                                                                                                                                           | <i>Description (RBW/VBW)</i>        | <i>Test Eng.</i> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------|
| INTEL-090601-07e                                                                                                                                                                                                                                                | Cond BE, Ch. 62, PK (100kHz/100kHz) | JC               |
| <p>*ATTEN 10dB                      ΔMKR 39.00dB<br/>RL 12.0dBm                    10dB/                    -35.7MHz</p> <p>CENTER 5.3500GHz                      SPAN 200.0MHz<br/>*RBW 100kHz                    *VBW 100kHz                    SWP 110ms</p> |                                     |                  |
| <i>Plot File Name</i>                                                                                                                                                                                                                                           | <i>Description (RBW/VBW)</i>        | <i>Test Eng.</i> |
| INTEL-090601-07f                                                                                                                                                                                                                                                | Cond BE, Ch. 62, AV (1MHz/10Hz)     | JC               |
| <p>*ATTEN 10dB                      ΔMKR 38.83dB<br/>RL 12.0dBm                    10dB/                    -51.3MHz</p> <p>CENTER 5.3500GHz                      SPAN 200.0MHz<br/>*RBW 1.0MHz                    *VBW 10Hz                    SWP 74.0sec</p> |                                     |                  |



Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11n mode 40MHz Wide (5150-5350 MHz)  
Channels 38, 46, 54, & 62  
Continuous TX at Chain B Antenna port with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-04*

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                             |                            |                          |                               |   |                          |                         |                                 |                      |                         |                 |
|-------------------------------------------------------------|-----------------------------|----------------------------|--------------------------|-------------------------------|---|--------------------------|-------------------------|---------------------------------|----------------------|-------------------------|-----------------|
| <i>Freq. (MHz)</i>                                          | <i>Meter Reading (dBuV)</i> | <i>Antenna Height (cm)</i> | <i>Azimuth (degrees)</i> | <i>Quasi pk or AVG (dBuV)</i> |   | <i>Cable Factor (dB)</i> | <i>Ant. Factor (dB)</i> | <i>Corrected Reading (dBuV)</i> | <i>Limits (dBuV)</i> | <i>Diff (dB) +=FAIL</i> | <i>Comments</i> |
| 5190.00                                                     | 59.33                       | 100                        | 180                      |                               |   | 3.78                     | 34.29                   | 97.40                           |                      |                         | <b>Ch. 38</b>   |
| 5190.00                                                     |                             |                            |                          | 48.76                         | A | 3.78                     | 34.29                   | 86.83                           |                      |                         |                 |
| 5230.00                                                     | 60.67                       | 100                        | 180                      |                               |   | 3.79                     | 34.33                   | 98.79                           |                      |                         | <b>Ch. 46</b>   |
| 5230.00                                                     |                             |                            |                          | 50.49                         | A | 3.79                     | 34.33                   | 88.61                           |                      |                         |                 |
| 5270.00                                                     | 62.00                       | 100                        | 315                      |                               |   | 3.81                     | 34.37                   | 100.18                          |                      |                         | <b>Ch. 54</b>   |
| 5270.00                                                     |                             |                            |                          | 52.85                         | A | 3.81                     | 34.37                   | 91.03                           |                      |                         |                 |
| 5310.00                                                     | 61.00                       | 100                        | 315                      |                               |   | 3.82                     | 34.41                   | 99.23                           |                      |                         | <b>Ch. 62</b>   |
| 5310.00                                                     |                             |                            |                          | 51.02                         | A | 3.82                     | 34.41                   | 89.25                           |                      |                         |                 |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                             |                            |                          |                               |   |                          |                         |                                 |                      |                         |                 |
|-----------------------------------------------------------|-----------------------------|----------------------------|--------------------------|-------------------------------|---|--------------------------|-------------------------|---------------------------------|----------------------|-------------------------|-----------------|
| <i>Freq. (MHz)</i>                                        | <i>Meter Reading (dBuV)</i> | <i>Antenna Height (cm)</i> | <i>Azimuth (degrees)</i> | <i>Quasi pk or AVG (dBuV)</i> |   | <i>Cable Factor (dB)</i> | <i>Ant. Factor (dB)</i> | <i>Corrected Reading (dBuV)</i> | <i>Limits (dBuV)</i> | <i>Diff (dB) +=FAIL</i> | <i>Comments</i> |
| 5190.00                                                   | 59.50                       | 100                        | 90                       |                               |   | 3.78                     | 34.49                   | 97.77                           |                      |                         | <b>Ch. 38</b>   |
| 5190.00                                                   |                             |                            |                          | 48.67                         | A | 3.78                     | 34.49                   | 86.94                           |                      |                         |                 |
| 5230.00                                                   | 61.00                       | 100                        | 90                       |                               |   | 3.79                     | 34.53                   | 99.32                           |                      |                         | <b>Ch. 46</b>   |
| 5230.00                                                   |                             |                            |                          | 50.33                         | A | 3.79                     | 34.53                   | 88.65                           |                      |                         |                 |
| 5270.00                                                   | 62.17                       | 100                        | 45                       |                               |   | 3.81                     | 34.57                   | 100.55                          |                      |                         | <b>Ch. 54</b>   |
| 5270.00                                                   |                             |                            |                          | 51.67                         | A | 3.81                     | 34.57                   | 90.05                           |                      |                         |                 |
| 5310.00                                                   | 61.17                       | 100                        | 45                       |                               |   | 3.82                     | 34.61                   | 99.60                           |                      |                         | <b>Ch. 62</b>   |
| 5310.00                                                   |                             |                            |                          | 50.50                         | A | 3.82                     | 34.61                   | 88.93                           |                      |                         |                 |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.



Radiated Emissions Test Results (Continued)

**Band Edge Field Strength Measurements in 802.11n mode 40MHz Wide (5150-5350 MHz)**  
**Channels 38 & 62**  
**Continuous TX at Chain B Antenna port with Shanghai Universe Antennas**  
**Aegis Labs, Inc. File #: INTEL-090601-04**

**RADIATED EMISSIONS - Horizontal Antenna Polarization**

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments      |
|-------------|----------------------|---------------------|-------------------|------------------------|-------------------|------------------|--------------------------|---------------|------------------|---------------|
| 5150.00     |                      |                     |                   |                        |                   |                  | 63.90                    | 74.00         | -10.10           | <b>Ch. 38</b> |
| 5150.00     |                      |                     |                   |                        |                   |                  | 60.24                    | 74.00         | -13.76           |               |
| 5150.00     |                      |                     |                   | A                      |                   |                  | 50.83                    | 54.00         | -3.17            |               |
| 5150.00     |                      |                     |                   | A                      |                   |                  | 49.67                    | 54.00         | -4.33            |               |
| 5350.00     |                      |                     |                   |                        |                   |                  | 63.23                    | 74.00         | -10.77           | <b>Ch. 62</b> |
| 5350.00     |                      |                     |                   |                        |                   |                  | 59.90                    | 74.00         | -14.10           |               |
| 5350.00     |                      |                     |                   | A                      |                   |                  | 50.91                    | 54.00         | -3.09            |               |
| 5350.00     |                      |                     |                   | A                      |                   |                  | 49.92                    | 54.00         | -4.08            |               |

**RADIATED EMISSIONS - Vertical Antenna Polarization**

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments      |
|-------------|----------------------|---------------------|-------------------|------------------------|-------------------|------------------|--------------------------|---------------|------------------|---------------|
| 5150.00     |                      |                     |                   |                        |                   |                  | 64.27                    | 74.00         | -9.73            | <b>Ch. 38</b> |
| 5150.00     |                      |                     |                   |                        |                   |                  | 60.61                    | 74.00         | -13.39           |               |
| 5150.00     |                      |                     |                   | A                      |                   |                  | 50.94                    | 54.00         | -3.06            |               |
| 5150.00     |                      |                     |                   | A                      |                   |                  | 49.78                    | 54.00         | -4.22            |               |
| 5350.00     |                      |                     |                   |                        |                   |                  | 63.60                    | 74.00         | -10.40           | <b>Ch. 62</b> |
| 5350.00     |                      |                     |                   |                        |                   |                  | 60.27                    | 74.00         | -13.73           |               |
| 5350.00     |                      |                     |                   | A                      |                   |                  | 50.59                    | 54.00         | -3.41            |               |
| 5350.00     |                      |                     |                   | A                      |                   |                  | 49.60                    | 54.00         | -4.40            |               |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = F_m - \Delta m$$

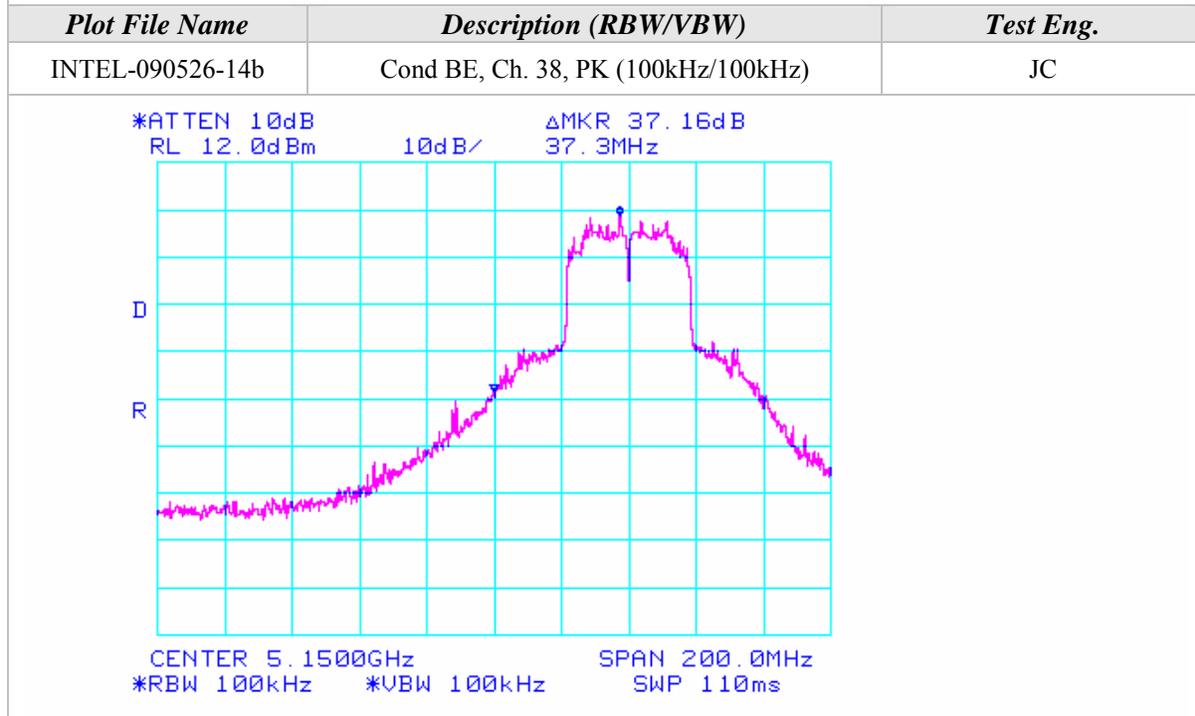
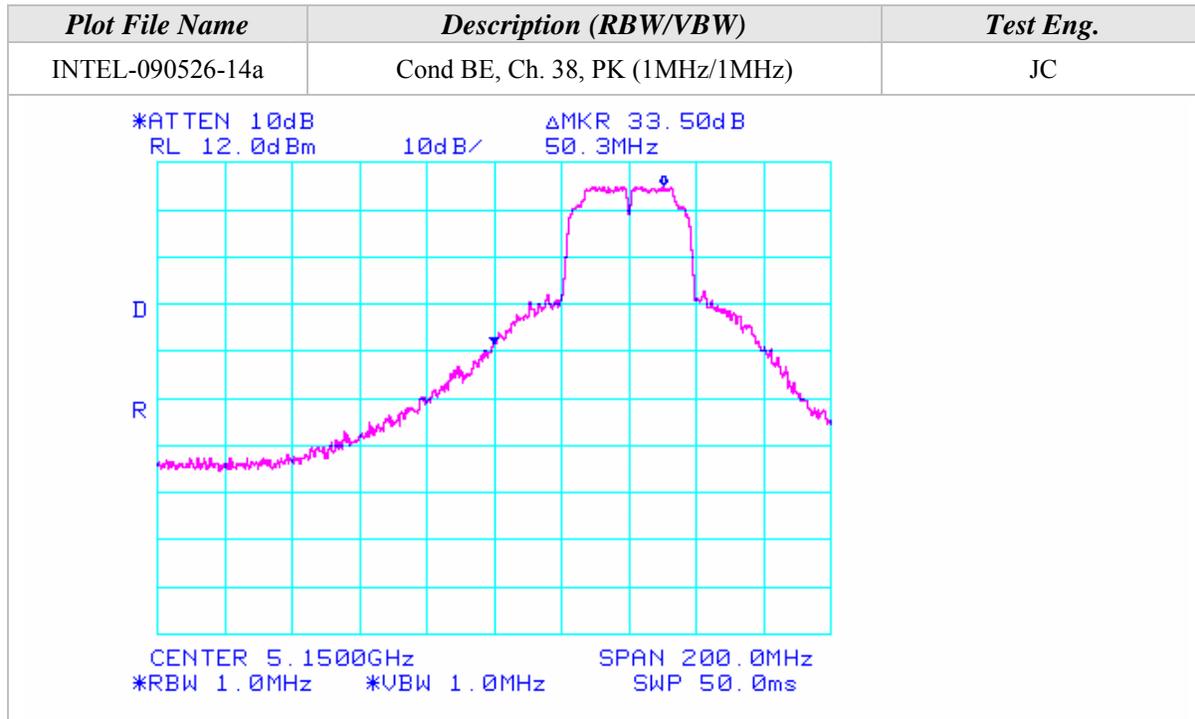
Where

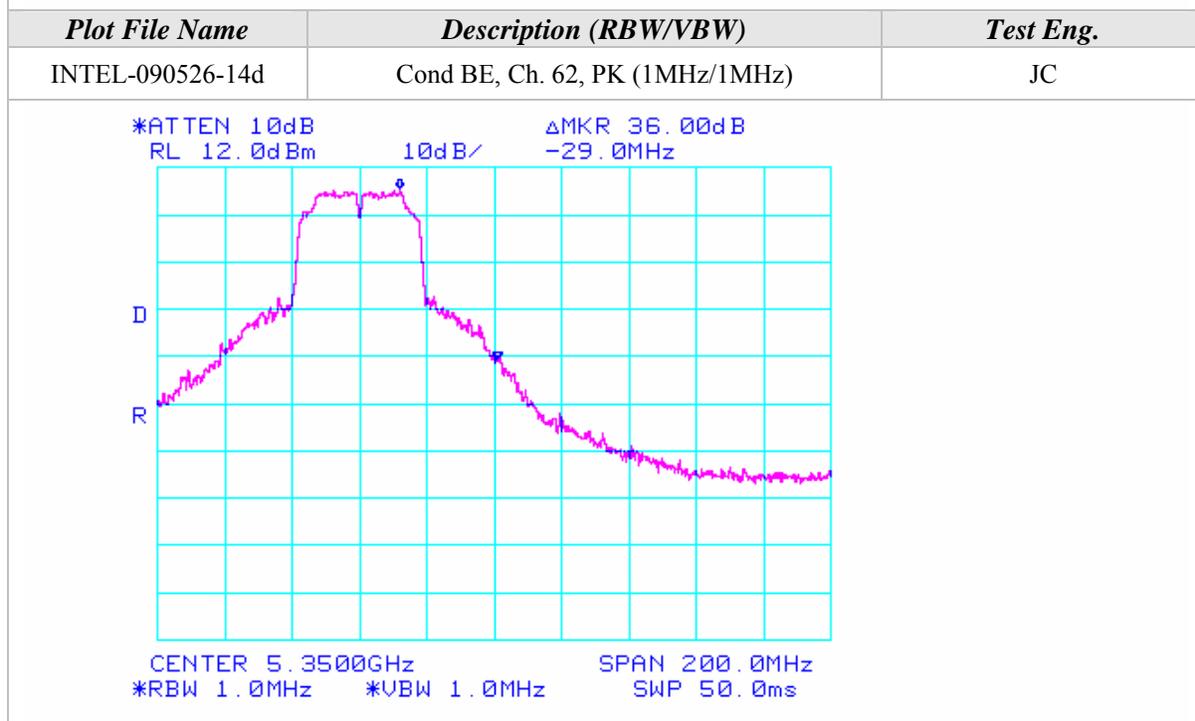
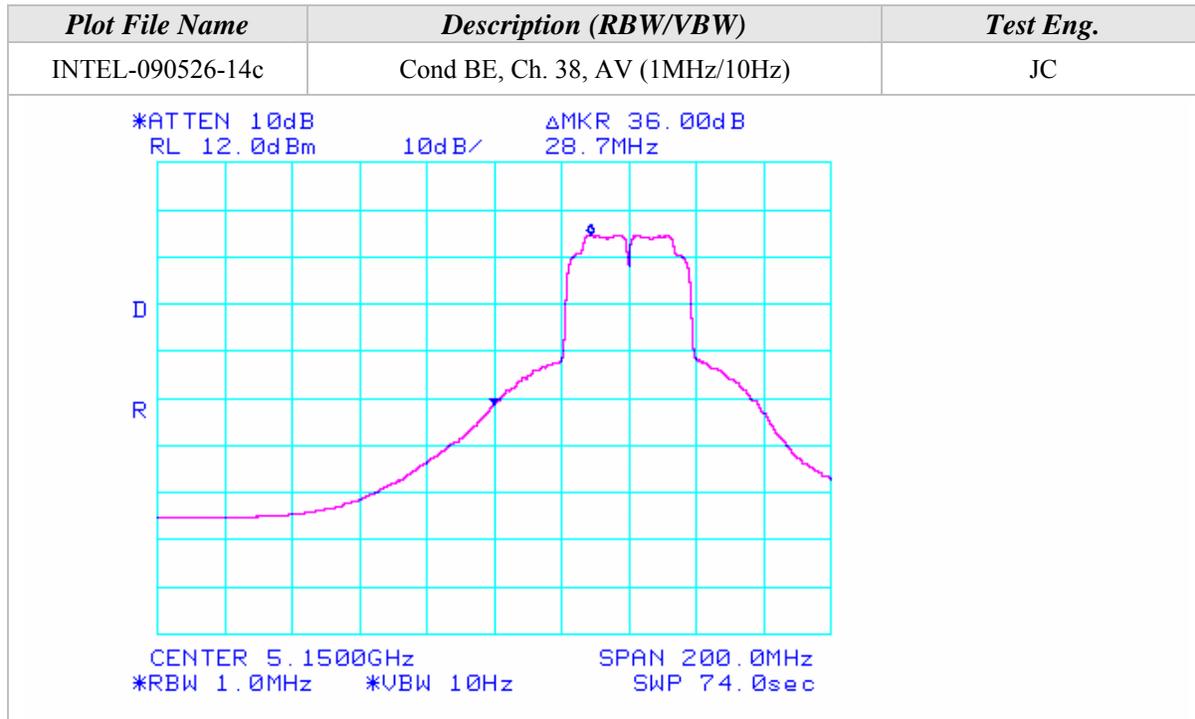
BE = Band Edge Field Strength

F<sub>m</sub> = Measured Fundamental (Peak or Average)

Δ<sub>m</sub> = Measured Conducted Band Edge Delta (Peak or Average)

Band-Edge Plots (Continued)



**Band-Edge Plots (Continued)**


Band-Edge Plots (Continued)

| Plot File Name                                                                                                                                                                                                                                                                                                                                  | Description (RBW/VBW)               | Test Eng. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------|
| INTEL-090526-14e                                                                                                                                                                                                                                                                                                                                | Cond BE, Ch. 62, PK (100kHz/100kHz) | JC        |
| <p>*ATTEN 10dB                                  ΔMKR 39.33dB<br/>RL 12.0dBm                                  10dB/                                  -43.3MHz</p> <p>CENTER 5.3500GHz                                  SPAN 200.0MHz<br/>*RBW 100kHz                                  *VBW 100kHz                                  SWP 110ms</p> |                                     |           |
| Plot File Name                                                                                                                                                                                                                                                                                                                                  | Description (RBW/VBW)               | Test Eng. |
| INTEL-090526-14f                                                                                                                                                                                                                                                                                                                                | Cond BE, Ch. 62, AV (1MHz/10Hz)     | JC        |
| <p>*ATTEN 10dB                                  ΔMKR 38.34dB<br/>RL 12.0dBm                                  10dB/                                  -51.0MHz</p> <p>CENTER 5.3500GHz                                  SPAN 200.0MHz<br/>*RBW 1.0MHz                                  *VBW 10Hz                                  SWP 74.0sec</p> |                                     |           |

**RADIATED EMISSIONS TEST RESULTS**

|                       |                                                                                                                            |                        |              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                          | <b>DATE:</b>           | 08/17/09     |
| <b>EUT:</b>           | Intel® Centrino® Ultimate-N 6200                                                                                           | <b>PROJECT NUMBER:</b> | INTEL-090601 |
| <b>MODEL NUMBER:</b>  | 622ANHMW                                                                                                                   | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 0015005A3C7C                                                                                                               | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in an extender board connected to the host laptop's mini PCI slot in <b>802.11a (5470-5725 MHz) mode.</b> | <b>TEMPERATURE:</b>    | 24° C        |
|                       |                                                                                                                            | <b>HUMIDITY:</b>       | 46% RH       |
|                       |                                                                                                                            | <b>TIME:</b>           | 9:30 AM      |

|                     |                                                                                                                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description:</b> | Radiated RF Emissions (1 GHz – 18 GHz)                                                                                                                                                      |
| <b>Results:</b>     | <b>PASSED</b> Horizontal and Vertical Antenna Polarizations Class B Limits                                                                                                                  |
| <b>Note:</b>        | Radiated Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. <ul style="list-style-type: none"> <li>• 120VAC / 60 Hz.</li> </ul> |

| <b>Unwanted Spurious Emissions Limits</b> |                              |                                                                        |                                                                              |
|-------------------------------------------|------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>Frequency (MHz)</b>                    | <b>Field Strength (uV/m)</b> | <b>Field Strength (dBuV/m)<br/>(Emissions in the restricted bands)</b> | <b>Field Strength (dBm/MHz)<br/>(Emissions outside the restricted bands)</b> |
| Above 960                                 | 500                          | 54.00 (Average)<br>74.00 (Peak)                                        | < -20 dBc                                                                    |

## Radiated Emissions Sample Calculations

$$\text{Corrected Meter Reading} = \text{Meter Reading} + F + C - D$$

Where, F = Antenna Factor

C = Cable Factor

G = Amplifier Gain

D = Distance Factor (if applicable)

Therefore, the equation for determining the Corrected Meter Reading Limit (CML) is:

$$\text{CML} = \text{Specification Limit} - F - C + D$$



Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11a mode (5470-5725 MHz)  
Channels 100, 120, & 140  
Continuous TX at Chain A Antenna port with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-02*

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                      |                     |                   |                        |   |                   |                  |                          |               |                  |                |
|-------------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|-------------------|------------------|--------------------------|---------------|------------------|----------------|
| Freq. (MHz)                                                 | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments       |
| 5500.00                                                     | 60.90                | 100                 | 45                |                        |   | 3.89              | 34.60            | 99.39                    |               |                  | <b>Ch. 100</b> |
| 5500.00                                                     |                      |                     |                   | 54.07                  | A | 3.89              | 34.60            | 92.56                    |               |                  |                |
| 5600.00                                                     | 61.45                | 100                 | 45                |                        |   | 3.93              | 34.72            | 100.10                   |               |                  | <b>Ch. 120</b> |
| 5600.00                                                     |                      |                     |                   | 54.60                  | A | 3.93              | 34.72            | 93.25                    |               |                  |                |
| 5700.00                                                     | 58.84                | 100                 | 45                |                        |   | 3.97              | 34.84            | 97.65                    |               |                  | <b>Ch. 140</b> |
| 5700.00                                                     |                      |                     |                   | 52.07                  | A | 3.97              | 34.84            | 90.88                    |               |                  |                |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                      |                     |                   |                        |   |                   |                  |                          |               |                  |                |
|-----------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|-------------------|------------------|--------------------------|---------------|------------------|----------------|
| Freq. (MHz)                                               | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments       |
| 5500.00                                                   | 65.96                | 100                 | 315               |                        |   | 3.89              | 34.80            | 104.65                   |               |                  | <b>Ch. 100</b> |
| 5500.00                                                   |                      |                     |                   | 56.41                  | A | 3.89              | 34.80            | 95.10                    |               |                  |                |
| 5600.00                                                   | 66.42                | 100                 | 315               |                        |   | 3.93              | 34.90            | 105.25                   |               |                  | <b>Ch. 120</b> |
| 5600.00                                                   |                      |                     |                   | 56.89                  | A | 3.93              | 34.90            | 95.72                    |               |                  |                |
| 5700.00                                                   | 65.39                | 100                 | 315               |                        |   | 3.97              | 35.00            | 104.36                   |               |                  | <b>Ch. 140</b> |
| 5700.00                                                   |                      |                     |                   | 55.80                  | A | 3.97              | 35.00            | 94.77                    |               |                  |                |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.



Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11a mode (5470-5725 MHz)  
Channels 100 & 140  
Continuous TX at Chain A Antenna port with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-02*

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                      |                     |                   |                        |                   |                  |                          |               |                  |                |
|-------------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|-------------------|------------------|--------------------------|---------------|------------------|----------------|
| Freq. (MHz)                                                 | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments       |
| 5460.00                                                     |                      |                     |                   |                        |                   |                  | 46.73                    | 74.00         | -27.27           | <b>Ch. 100</b> |
| 5460.00                                                     |                      |                     |                   |                        |                   |                  | 41.89                    | 74.00         | -32.11           |                |
| 5460.00                                                     |                      |                     |                   |                        | A                 |                  | 34.06                    | 54.00         | -19.94           |                |
| 5460.00                                                     |                      |                     |                   |                        | A                 |                  | 35.06                    | 54.00         | -18.94           |                |
| 5725.00                                                     | 27.33                | 100                 | 45                |                        | 3.98              | 34.87            | 66.18                    | 77.65         | -11.47           | <b>Ch. 140</b> |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                      |                     |                   |                        |                   |                  |                          |               |                  |                |
|-----------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|-------------------|------------------|--------------------------|---------------|------------------|----------------|
| Freq. (MHz)                                               | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments       |
| 5460.00                                                   |                      |                     |                   |                        |                   |                  | 51.99                    | 74.00         | -22.01           | <b>Ch. 100</b> |
| 5460.00                                                   |                      |                     |                   |                        |                   |                  | 47.15                    | 74.00         | -26.85           |                |
| 5460.00                                                   |                      |                     |                   |                        | A                 |                  | 36.60                    | 54.00         | -17.40           |                |
| 5460.00                                                   |                      |                     |                   |                        | A                 |                  | 37.60                    | 54.00         | -16.40           |                |
| 5725.00                                                   | 30.28                | 100                 | 315               |                        | 3.98              | 35.03            | 69.28                    | 84.36         | -15.08           | <b>Ch. 140</b> |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = Fm - \Delta m$$

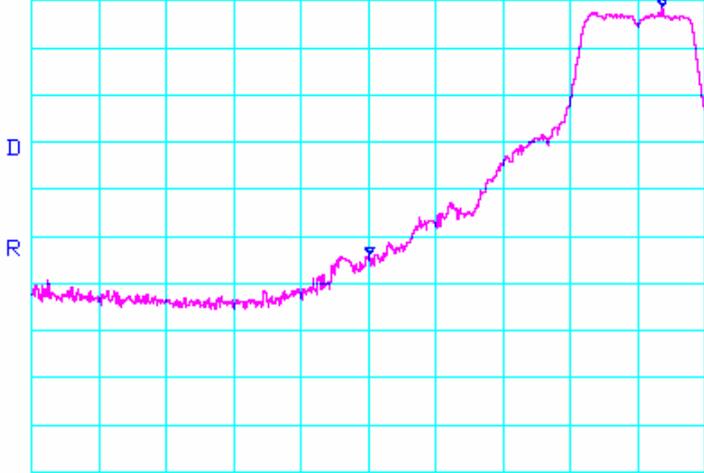
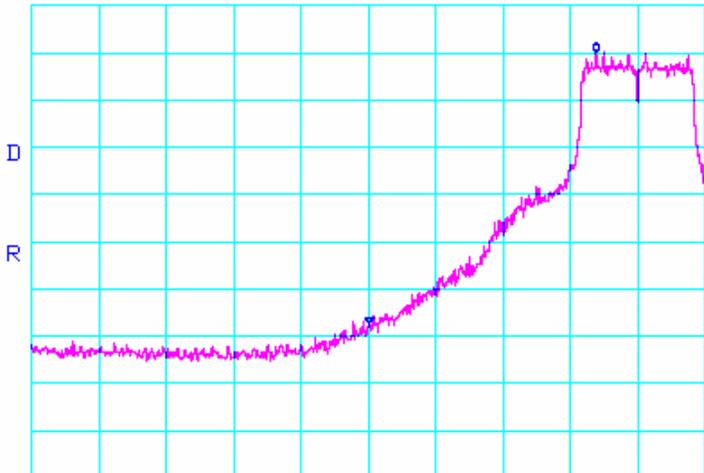
Where

BE = Band Edge Field Strength

Fm = Measured Fundamental (Peak or Average)

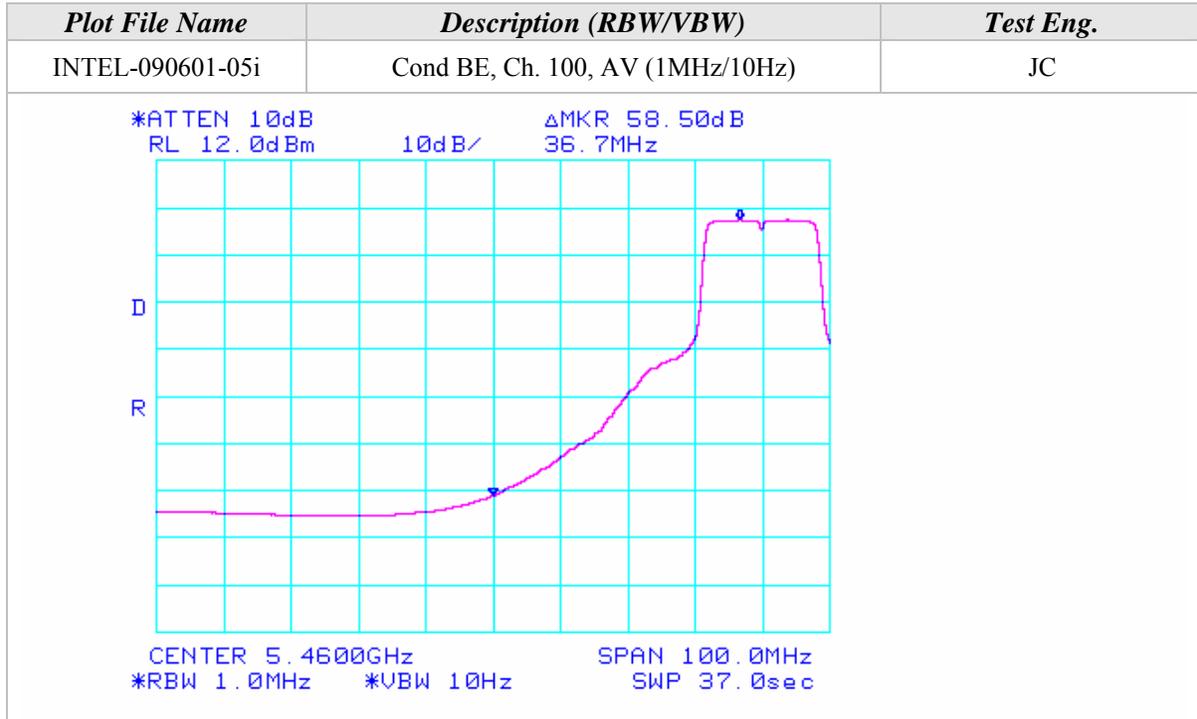
Δm = Measured Conducted Band Edge Delta (Peak or Average)

### Band-Edge Plots (Continued)

| <i>Plot File Name</i>                                                                                                                                                                                                                                       | <i>Description (RBW/VBW)</i>         | <i>Test Eng.</i> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------|
| INTEL-090601-05g                                                                                                                                                                                                                                            | Cond BE, Ch. 100, PK (1MHz/1MHz)     | JC               |
| <p>*ATTEN 10dB<br/>RL 12.0dBm      10dB/      ΔMKR 52.66dB<br/>43.5MHz</p>  <p>CENTER 5.4600GHz      SPAN 100.0MHz<br/>*RBW 1.0MHz      *VBW 1.0MHz      SWP 50.0ms</p>   |                                      |                  |
| <i>Plot File Name</i>                                                                                                                                                                                                                                       | <i>Description (RBW/VBW)</i>         | <i>Test Eng.</i> |
| INTEL-090601-05h                                                                                                                                                                                                                                            | Cond BE, Ch. 100, PK (100kHz/100kHz) | JC               |
| <p>*ATTEN 10dB<br/>RL 12.0dBm      10dB/      ΔMKR 57.50dB<br/>33.7MHz</p>  <p>CENTER 5.4600GHz      SPAN 100.0MHz<br/>*RBW 100kHz      *VBW 100kHz      SWP 55.0ms</p> |                                      |                  |



Band-Edge Plots (Continued)





Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11a mode (5470-5725 MHz)  
Channels 100, 120, & 140  
Continuous TX at Chain B Antenna port with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-04*

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                      |                     |                   |                        |   |                   |                  |                          |               |                  |                |
|-------------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|-------------------|------------------|--------------------------|---------------|------------------|----------------|
| Freq. (MHz)                                                 | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments       |
| 5500.00                                                     | 65.17                | 100                 | 0                 |                        |   | 3.89              | 34.60            | 103.66                   |               |                  | <b>Ch. 100</b> |
| 5500.00                                                     |                      |                     |                   | 56.33                  | A | 3.89              | 34.60            | 94.82                    |               |                  |                |
| 5600.00                                                     | 65.50                | 100                 | 315               |                        |   | 3.93              | 34.72            | 104.15                   |               |                  | <b>Ch. 120</b> |
| 5600.00                                                     |                      |                     |                   | 55.33                  | A | 3.93              | 34.72            | 93.98                    |               |                  |                |
| 5700.00                                                     | 64.67                | 100                 | 315               |                        |   | 3.97              | 34.84            | 103.48                   |               |                  | <b>Ch. 140</b> |
| 5700.00                                                     |                      |                     |                   | 55.00                  | A | 3.97              | 34.84            | 93.81                    |               |                  |                |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                      |                     |                   |                        |   |                   |                  |                          |               |                  |                |
|-----------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|-------------------|------------------|--------------------------|---------------|------------------|----------------|
| Freq. (MHz)                                               | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments       |
| 5500.00                                                   | 66.17                | 100                 | 315               |                        |   | 3.89              | 34.80            | 104.86                   |               |                  | <b>Ch. 100</b> |
| 5500.00                                                   |                      |                     |                   | 56.00                  | A | 3.89              | 34.80            | 94.69                    |               |                  |                |
| 5600.00                                                   | 66.67                | 100                 | 0                 |                        |   | 3.93              | 34.90            | 105.50                   |               |                  | <b>Ch. 120</b> |
| 5600.00                                                   |                      |                     |                   | 56.67                  | A | 3.93              | 34.90            | 95.50                    |               |                  |                |
| 5700.00                                                   | 65.33                | 100                 | 315               |                        |   | 3.97              | 35.00            | 104.30                   |               |                  | <b>Ch. 140</b> |
| 5700.00                                                   |                      |                     |                   | 55.17                  | A | 3.97              | 35.00            | 94.14                    |               |                  |                |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.



Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11a mode (5470-5725 MHz)  
Channels 100 & 140  
Continuous TX at Chain B Antenna port with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-04*

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                             |                            |                          |                               |                          |                         |                                 |                      |                         |                 |
|-------------------------------------------------------------|-----------------------------|----------------------------|--------------------------|-------------------------------|--------------------------|-------------------------|---------------------------------|----------------------|-------------------------|-----------------|
| <i>Freq. (MHz)</i>                                          | <i>Meter Reading (dBuV)</i> | <i>Antenna Height (cm)</i> | <i>Azimuth (degrees)</i> | <i>Quasi pk or AVG (dBuV)</i> | <i>Cable Factor (dB)</i> | <i>Ant. Factor (dB)</i> | <i>Corrected Reading (dBuV)</i> | <i>Limits (dBuV)</i> | <i>Diff (dB) +=FAIL</i> | <i>Comments</i> |
| 5460.00                                                     |                             |                            |                          |                               |                          |                         | 55.83                           | 74.00                | -18.17                  | <b>Ch. 100</b>  |
| 5460.00                                                     |                             |                            |                          |                               |                          |                         | 50.16                           | 74.00                | -23.84                  |                 |
| 5460.00                                                     |                             |                            |                          |                               | A                        |                         | 39.82                           | 54.00                | -14.18                  |                 |
| 5460.00                                                     |                             |                            |                          |                               | A                        |                         | 41.32                           | 54.00                | -12.68                  |                 |
| 5725.00                                                     | 31.33                       | 100                        | 315                      |                               | 3.98                     | 34.87                   | 70.18                           | 83.48                | -13.30                  | <b>Ch. 140</b>  |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                             |                            |                          |                               |                          |                         |                                 |                      |                         |                 |
|-----------------------------------------------------------|-----------------------------|----------------------------|--------------------------|-------------------------------|--------------------------|-------------------------|---------------------------------|----------------------|-------------------------|-----------------|
| <i>Freq. (MHz)</i>                                        | <i>Meter Reading (dBuV)</i> | <i>Antenna Height (cm)</i> | <i>Azimuth (degrees)</i> | <i>Quasi pk or AVG (dBuV)</i> | <i>Cable Factor (dB)</i> | <i>Ant. Factor (dB)</i> | <i>Corrected Reading (dBuV)</i> | <i>Limits (dBuV)</i> | <i>Diff (dB) +=FAIL</i> | <i>Comments</i> |
| 5460.00                                                   |                             |                            |                          |                               |                          |                         | 57.03                           | 74.00                | -16.97                  | <b>Ch. 100</b>  |
| 5460.00                                                   |                             |                            |                          |                               |                          |                         | 51.36                           | 74.00                | -22.64                  |                 |
| 5460.00                                                   |                             |                            |                          |                               | A                        |                         | 39.69                           | 54.00                | -14.31                  |                 |
| 5460.00                                                   |                             |                            |                          |                               | A                        |                         | 41.19                           | 54.00                | -12.81                  |                 |
| 5725.00                                                   | 31.33                       | 100                        | 315                      |                               | 3.98                     | 35.03                   | 70.33                           | 84.30                | -13.97                  | <b>Ch. 140</b>  |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = Fm - \Delta m$$

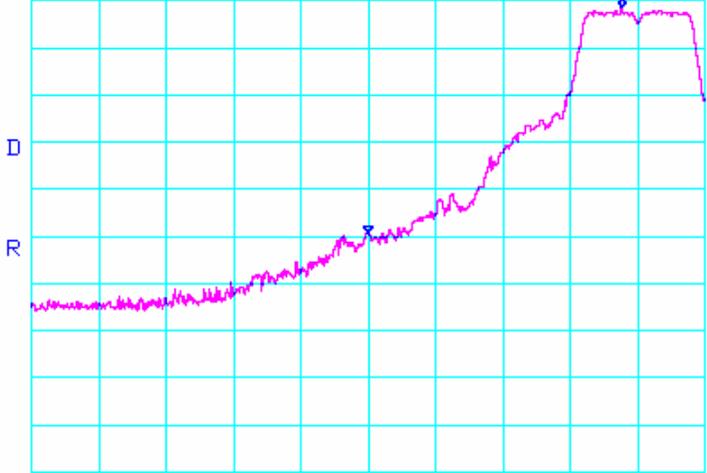
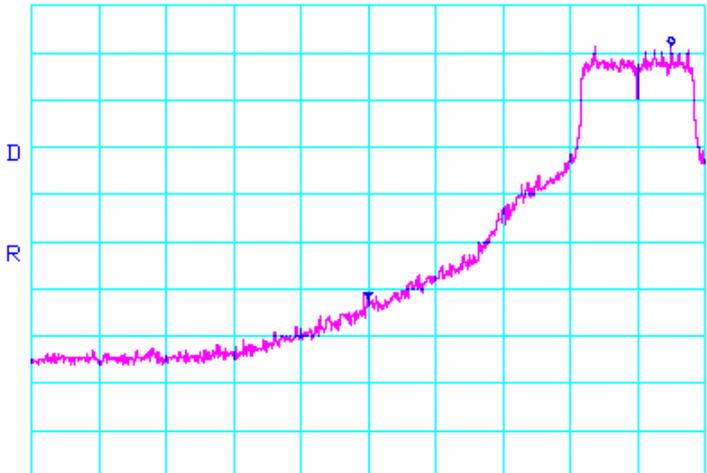
Where

BE = Band Edge Field Strength

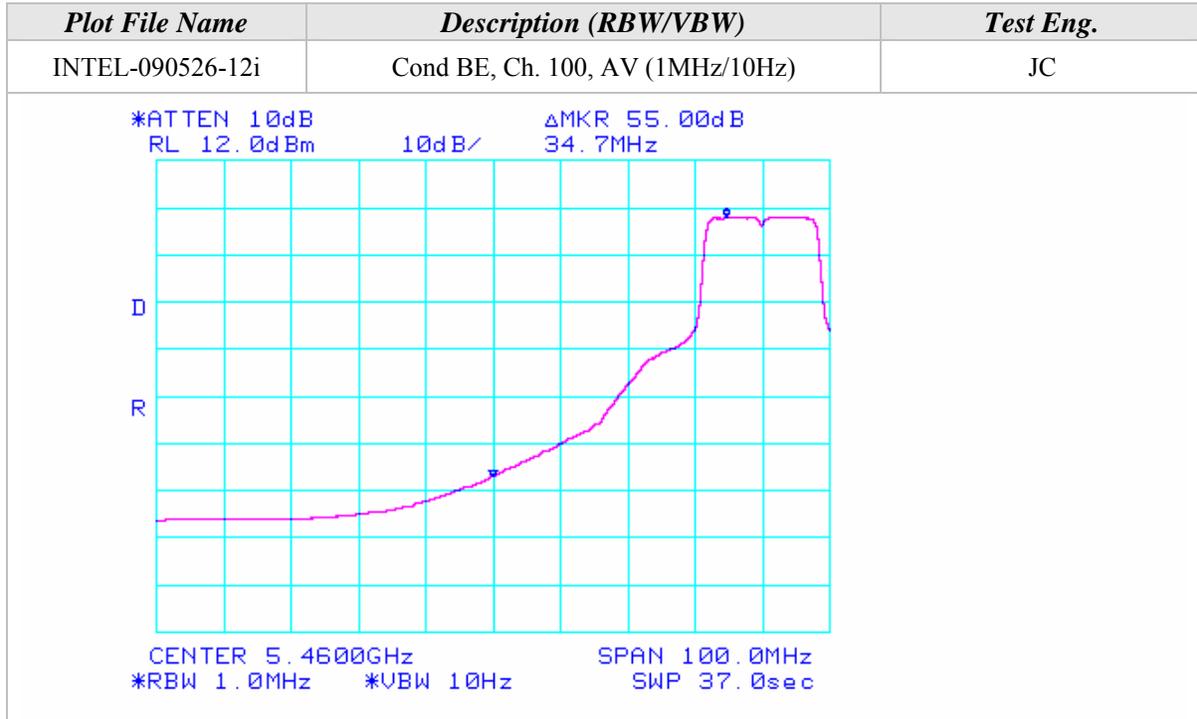
Fm = Measured Fundamental (Peak or Average)

Δm = Measured Conducted Band Edge Delta (Peak or Average)

Band-Edge Plots (Continued)

| Plot File Name                                                                                                                                                                                                                                               | Description (RBW/VBW)                | Test Eng. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------|
| INTEL-090526-12g                                                                                                                                                                                                                                             | Cond BE, Ch. 100, PK (1MHz/1MHz)     | JC        |
| <p>*ATTEN 10dB      ΔMKR 47.83dB<br/>RL 12.0dBm      10dB/      37.7MHz</p>  <p>CENTER 5.4600GHz      SPAN 100.0MHz<br/>*RBW 1.0MHz      *VBW 1.0MHz      SWP 50.0ms</p>   |                                      |           |
| Plot File Name                                                                                                                                                                                                                                               | Description (RBW/VBW)                | Test Eng. |
| INTEL-090526-12h                                                                                                                                                                                                                                             | Cond BE, Ch. 100, PK (100kHz/100kHz) | JC        |
| <p>*ATTEN 10dB      ΔMKR 53.50dB<br/>RL 12.0dBm      10dB/      45.0MHz</p>  <p>CENTER 5.4600GHz      SPAN 100.0MHz<br/>*RBW 100kHz      *VBW 100kHz      SWP 55.0ms</p> |                                      |           |

Band-Edge Plots (Continued)





Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5470-5725 MHz)  
Channels 100, 120, & 140  
Continuous TX at Chain A & B Antenna ports with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-06*

**RADIATED EMISSIONS - Horizontal Antenna Polarization**

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +/-FAIL | Channel/Chain Tested |
|-------------|----------------------|---------------------|-------------------|------------------------|---|--------------------|-------------------|------------------|--------------------------|---------------|-------------------|----------------------|
| 3733.33     | 53.17                | 100                 | 0                 |                        |   | 47.55              | 3.19              | 33.08            | 41.89                    | 74.00         | -32.11            | Ch. 120/A            |
| 3733.33     | 53.67                | 100                 | 0                 |                        |   | 47.55              | 3.19              | 33.08            | 42.39                    | 74.00         | -31.61            | Ch. 120/B            |
| 3666.66     | 53.17                | 100                 | 315               |                        |   | 47.58              | 3.17              | 33.00            | 41.76                    | 54.00         | -12.24            | Ch. 100/B            |
| 3800.00     | 53.50                | 100                 | 270               |                        |   | 47.54              | 3.24              | 33.16            | 42.36                    | 74.00         | -31.64            | Ch. 140/             |
| 7600.00     | 51.67                | 100                 | 315               |                        |   | 45.60              | 4.64              | 35.76            | 46.46                    | 74.00         | -27.54            | B                    |
| 7600.00     |                      | 100                 | 315               | 40.62                  | A | 45.60              | 4.64              | 35.76            | 35.41                    | 54.00         | -18.59            |                      |

**RADIATED EMISSIONS - Vertical Antenna Polarization**

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +/-FAIL | Comments  |
|-------------|----------------------|---------------------|-------------------|------------------------|---|--------------------|-------------------|------------------|--------------------------|---------------|-------------------|-----------|
| 3733.33     | 53.33                | 100                 | 0                 |                        |   | 47.55              | 3.19              | 32.97            | 41.94                    | 74.00         | -32.06            | Ch. 120/  |
| 7466.66     | 51.67                | 100                 | 0                 |                        |   | 45.68              | 4.60              | 35.69            | 46.28                    | 74.00         | -27.72            | A         |
| 7466.66     |                      | 100                 | 0                 | 38.78                  | A | 45.68              | 4.60              | 35.69            | 33.39                    | 54.00         | -20.61            |           |
| 3733.33     | 53.33                | 100                 | 0                 |                        |   | 47.55              | 3.19              | 32.97            | 41.94                    | 74.00         | -32.06            | Ch. 120/  |
| 7466.66     | 52.17                | 100                 | 315               |                        |   | 45.68              | 4.60              | 35.69            | 46.78                    | 74.00         | -27.22            | B         |
| 7466.66     |                      | 100                 | 315               | 39.05                  | A | 45.68              | 4.60              | 35.69            | 33.66                    | 54.00         | -20.34            |           |
| 3666.66     | 53.17                | 100                 | 0                 |                        |   | 47.58              | 3.17              | 32.87            | 41.63                    | 74.00         | -32.37            | Ch. 100/  |
| 7333.33     | 51.17                | 100                 | 0                 |                        |   | 45.81              | 4.55              | 35.67            | 45.57                    | 74.00         | -28.43            | B         |
| 7333.33     |                      | 100                 | 0                 | 38.70                  | A | 45.81              | 4.55              | 35.67            | 33.10                    | 54.00         | -20.90            |           |
| 3800.00     | 53.67                | 100                 | 0                 |                        |   | 47.54              | 3.24              | 33.08            | 42.45                    | 74.00         | -31.55            | Ch. 140/B |

**RADIATED EMISSIONS TEST RESULTS**

|                       |                                                                                                                                       |                        |              |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                                     | <b>DATE:</b>           | 08/17/09     |
| <b>EUT:</b>           | Intel® Centrino® Ultimate-N 6200                                                                                                      | <b>PROJECT NUMBER:</b> | INTEL-090601 |
| <b>MODEL NUMBER:</b>  | 622ANHMW                                                                                                                              | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 0015005A3C7C                                                                                                                          | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in an extender board connected to the host laptop's mini PCI slot in <b>802.11n (5740-5745 MHz) mode 20MHz Wide.</b> | <b>TEMPERATURE:</b>    | 24° C        |
|                       |                                                                                                                                       | <b>HUMIDITY:</b>       | 46% RH       |
|                       |                                                                                                                                       | <b>TIME:</b>           | 9:30 AM      |

|                     |                                                                                                                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description:</b> | Radiated RF Emissions (1 GHz – 18 GHz)                                                                                                                                                      |
| <b>Results:</b>     | <b>PASSED</b> Horizontal and Vertical Antenna Polarizations Class B Limits                                                                                                                  |
| <b>Note:</b>        | Radiated Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. <ul style="list-style-type: none"> <li>• 120VAC / 60 Hz.</li> </ul> |

| <b>Unwanted Spurious Emissions Limits</b> |                              |                                                                        |                                                                              |
|-------------------------------------------|------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>Frequency (MHz)</b>                    | <b>Field Strength (uV/m)</b> | <b>Field Strength (dBuV/m)<br/>(Emissions in the restricted bands)</b> | <b>Field Strength (dBm/MHz)<br/>(Emissions outside the restricted bands)</b> |
| Above 960                                 | 500                          | 54.00 (Average)<br>74.00 (Peak)                                        | < -20 dBc                                                                    |

## Radiated Emissions Sample Calculations

$$\text{Corrected Meter Reading} = \text{Meter Reading} + F + C - D$$

Where, F = Antenna Factor

C = Cable Factor

G = Amplifier Gain

D = Distance Factor (if applicable)

Therefore, the equation for determining the Corrected Meter Reading Limit (CML) is:

$$\text{CML} = \text{Specification Limit} - F - C + D$$



Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11n mode 20MHz Wide (5470-5725 MHz)  
Channels 100, 120, & 140  
Continuous TX at Chain A Antenna port with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-02*

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                      |                     |                   |                        |   |                   |                  |                          |               |                  |                |
|-------------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|-------------------|------------------|--------------------------|---------------|------------------|----------------|
| Freq. (MHz)                                                 | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments       |
| 5500.00                                                     | 62.43                | 100                 | 45                |                        |   | 3.89              | 34.60            | 100.92                   |               |                  | <b>Ch. 100</b> |
| 5500.00                                                     |                      |                     |                   | 53.95                  | A | 3.89              | 34.60            | 92.44                    |               |                  |                |
| 5600.00                                                     | 63.28                | 100                 | 45                |                        |   | 3.93              | 34.72            | 101.93                   |               |                  | <b>Ch. 120</b> |
| 5600.00                                                     |                      |                     |                   | 54.84                  | A | 3.93              | 34.72            | 93.49                    |               |                  |                |
| 5700.00                                                     | 62.50                | 100                 | 45                |                        |   | 3.97              | 34.84            | 101.31                   |               |                  | <b>Ch. 140</b> |
| 5700.00                                                     |                      |                     |                   | 53.91                  | A | 3.97              | 34.84            | 92.72                    |               |                  |                |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                      |                     |                   |                        |   |                   |                  |                          |               |                  |                |
|-----------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|-------------------|------------------|--------------------------|---------------|------------------|----------------|
| Freq. (MHz)                                               | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments       |
| 5500.00                                                   | 67.40                | 100                 | 270               |                        |   | 3.89              | 34.80            | 106.09                   |               |                  | <b>Ch. 100</b> |
| 5500.00                                                   |                      |                     |                   | 57.19                  | A | 3.89              | 34.80            | 95.88                    |               |                  |                |
| 5600.00                                                   | 66.22                | 100                 | 315               |                        |   | 3.93              | 34.90            | 105.05                   |               |                  | <b>Ch. 120</b> |
| 5600.00                                                   |                      |                     |                   | 56.96                  | A | 3.93              | 34.90            | 95.79                    |               |                  |                |
| 5700.00                                                   | 65.73                | 100                 | 315               |                        |   | 3.97              | 35.00            | 104.70                   |               |                  | <b>Ch. 140</b> |
| 5700.00                                                   |                      |                     |                   | 56.37                  | A | 3.97              | 35.00            | 95.34                    |               |                  |                |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.



Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11n mode 20MHz Wide (5470-5725 MHz)  
Channels 100 & 140  
Continuous TX at Chain A Antenna port with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-02*

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                             |                            |                          |                               |                          |                         |                                 |                      |                         |                 |
|-------------------------------------------------------------|-----------------------------|----------------------------|--------------------------|-------------------------------|--------------------------|-------------------------|---------------------------------|----------------------|-------------------------|-----------------|
| <i>Freq. (MHz)</i>                                          | <i>Meter Reading (dBuV)</i> | <i>Antenna Height (cm)</i> | <i>Azimuth (degrees)</i> | <i>Quasi pk or AVG (dBuV)</i> | <i>Cable Factor (dB)</i> | <i>Ant. Factor (dB)</i> | <i>Corrected Reading (dBuV)</i> | <i>Limits (dBuV)</i> | <i>Diff (dB) +=FAIL</i> | <i>Comments</i> |
| 5460.00                                                     |                             |                            |                          |                               |                          |                         | 52.25                           | 74.00                | -21.75                  | <b>Ch. 100</b>  |
| 5460.00                                                     |                             |                            |                          |                               |                          | 44.59                   | 74.00                           | -29.41               |                         |                 |
| 5460.00                                                     |                             |                            |                          | A                             |                          | 35.28                   | 54.00                           | -18.72               |                         |                 |
| 5460.00                                                     |                             |                            |                          | A                             |                          | 36.11                   | 54.00                           | -17.89               |                         |                 |
| 5725.00                                                     | 29.82                       | 100                        | 45                       |                               | 3.98                     | 34.87                   | 68.67                           | 81.31                | -12.64                  |                 |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                             |                            |                          |                               |                          |                         |                                 |                      |                         |                 |
|-----------------------------------------------------------|-----------------------------|----------------------------|--------------------------|-------------------------------|--------------------------|-------------------------|---------------------------------|----------------------|-------------------------|-----------------|
| <i>Freq. (MHz)</i>                                        | <i>Meter Reading (dBuV)</i> | <i>Antenna Height (cm)</i> | <i>Azimuth (degrees)</i> | <i>Quasi pk or AVG (dBuV)</i> | <i>Cable Factor (dB)</i> | <i>Ant. Factor (dB)</i> | <i>Corrected Reading (dBuV)</i> | <i>Limits (dBuV)</i> | <i>Diff (dB) +=FAIL</i> | <i>Comments</i> |
| 5460.00                                                   |                             |                            |                          |                               |                          |                         | 57.42                           | 74.00                | -16.58                  | <b>Ch. 100</b>  |
| 5460.00                                                   |                             |                            |                          |                               |                          | 49.76                   | 74.00                           | -24.24               |                         |                 |
| 5460.00                                                   |                             |                            |                          | A                             |                          | 38.72                   | 54.00                           | -15.28               |                         |                 |
| 5460.00                                                   |                             |                            |                          | A                             |                          | 39.55                   | 54.00                           | -14.45               |                         |                 |
| 5725.00                                                   | 30.27                       | 100                        | 315                      |                               | 3.98                     | 35.03                   | 69.27                           | 84.70                | -15.43                  |                 |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = Fm - \Delta m$$

Where

BE = Band Edge Field Strength

Fm = Measured Fundamental (Peak or Average)

Δm = Measured Conducted Band Edge Delta (Peak or Average)



Band-Edge Plots (Continued)

| <i>Plot File Name</i>                                                                                                                                                                                                                     | <i>Description (RBW/VBW)</i>         | <i>Test Eng.</i> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------|
| INTEL-090601-06g                                                                                                                                                                                                                          | Cond BE, Ch. 100, PK (1MHz/1MHz)     | JC               |
| <p>*ATTEN 10dB          ΔMKR 48.67dB<br/>                     RL 12.0dBm          10dB/          37.0MHz</p> <p>CENTER 5.4600GHz          SPAN 100.0MHz<br/>                     *RBW 1.0MHz          *VBW 1.0MHz          SWP 50.0ms</p> |                                      |                  |
| <i>Plot File Name</i>                                                                                                                                                                                                                     | <i>Description (RBW/VBW)</i>         | <i>Test Eng.</i> |
| INTEL-090601-06h                                                                                                                                                                                                                          | Cond BE, Ch. 100, PK (100kHz/100kHz) | JC               |
| <p>*ATTEN 10dB          ΔMKR 56.33dB<br/>                     RL 12.0dBm          10dB/          44.7MHz</p> <p>CENTER 5.4600GHz          SPAN 100.0MHz<br/>                     *RBW 100kHz          *VBW 100kHz          SWP 55.0ms</p> |                                      |                  |





Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11n mode 20MHz Wide (5470-5725 MHz)  
Channels 100, 120, & 140  
Continuous TX at Chain B Antenna port with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-04*

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                      |                     |                   |                        |   |                   |                  |                          |               |                  |                |
|-------------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|-------------------|------------------|--------------------------|---------------|------------------|----------------|
| Freq. (MHz)                                                 | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments       |
| 5500.00                                                     | 65.50                | 100                 | 315               |                        |   | 3.89              | 34.60            | 103.99                   |               |                  | <b>Ch. 100</b> |
| 5500.00                                                     |                      |                     |                   | 55.50                  | A | 3.89              | 34.60            | 93.99                    |               |                  |                |
| 5600.00                                                     | 66.00                | 100                 | 315               |                        |   | 3.93              | 34.72            | 104.65                   |               |                  | <b>Ch. 120</b> |
| 5600.00                                                     |                      |                     |                   | 56.17                  | A | 3.93              | 34.72            | 94.82                    |               |                  |                |
| 5700.00                                                     | 65.17                | 100                 | 315               |                        |   | 3.97              | 34.84            | 103.98                   |               |                  | <b>Ch. 140</b> |
| 5700.00                                                     |                      |                     |                   | 55.33                  | A | 3.97              | 34.84            | 94.14                    |               |                  |                |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                      |                     |                   |                        |   |                   |                  |                          |               |                  |                |
|-----------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|-------------------|------------------|--------------------------|---------------|------------------|----------------|
| Freq. (MHz)                                               | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments       |
| 5500.00                                                   | 67.50                | 100                 | 0                 |                        |   | 3.89              | 34.80            | 106.19                   |               |                  | <b>Ch. 100</b> |
| 5500.00                                                   |                      |                     |                   | 57.67                  | A | 3.89              | 34.80            | 96.36                    |               |                  |                |
| 5600.00                                                   | 66.33                | 100                 | 315               |                        |   | 3.93              | 34.90            | 105.16                   |               |                  | <b>Ch. 120</b> |
| 5600.00                                                   |                      |                     |                   | 57.17                  | A | 3.93              | 34.90            | 96.00                    |               |                  |                |
| 5700.00                                                   | 65.83                | 100                 | 315               |                        |   | 3.97              | 35.00            | 104.80                   |               |                  | <b>Ch. 140</b> |
| 5700.00                                                   |                      |                     |                   | 56.67                  | A | 3.97              | 35.00            | 95.64                    |               |                  |                |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.



Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11n mode 20MHz Wide (5470-5725 MHz)  
Channels 100 & 140  
Continuous TX at Chain B Antenna port with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-04*

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                             |                            |                          |                               |                          |                         |                                 |                      |                         |                 |
|-------------------------------------------------------------|-----------------------------|----------------------------|--------------------------|-------------------------------|--------------------------|-------------------------|---------------------------------|----------------------|-------------------------|-----------------|
| <i>Freq. (MHz)</i>                                          | <i>Meter Reading (dBuV)</i> | <i>Antenna Height (cm)</i> | <i>Azimuth (degrees)</i> | <i>Quasi pk or AVG (dBuV)</i> | <i>Cable Factor (dB)</i> | <i>Ant. Factor (dB)</i> | <i>Corrected Reading (dBuV)</i> | <i>Limits (dBuV)</i> | <i>Diff (dB) +=FAIL</i> | <i>Comments</i> |
| 5460.00                                                     |                             |                            |                          |                               |                          |                         | 57.99                           | 74.00                | -16.01                  | <b>Ch. 100</b>  |
| 5460.00                                                     |                             |                            |                          |                               |                          |                         | 50.32                           | 74.00                | -23.68                  |                 |
| 5460.00                                                     |                             |                            |                          |                               | A                        |                         | 39.83                           | 54.00                | -14.17                  |                 |
| 5460.00                                                     |                             |                            |                          |                               | A                        |                         | 40.32                           | 54.00                | -13.68                  |                 |
| 5725.00                                                     | 31.33                       | 100                        | 90                       |                               |                          | 3.98 34.87              | 70.18                           | 83.98                | -13.80                  | <b>Ch. 140</b>  |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                             |                            |                          |                               |                          |                         |                                 |                      |                         |                 |
|-----------------------------------------------------------|-----------------------------|----------------------------|--------------------------|-------------------------------|--------------------------|-------------------------|---------------------------------|----------------------|-------------------------|-----------------|
| <i>Freq. (MHz)</i>                                        | <i>Meter Reading (dBuV)</i> | <i>Antenna Height (cm)</i> | <i>Azimuth (degrees)</i> | <i>Quasi pk or AVG (dBuV)</i> | <i>Cable Factor (dB)</i> | <i>Ant. Factor (dB)</i> | <i>Corrected Reading (dBuV)</i> | <i>Limits (dBuV)</i> | <i>Diff (dB) +=FAIL</i> | <i>Comments</i> |
| 5460.00                                                   |                             |                            |                          |                               |                          |                         | 60.19                           | 74.00                | -13.81                  | <b>Ch. 100</b>  |
| 5460.00                                                   |                             |                            |                          |                               |                          |                         | 52.52                           | 74.00                | -21.48                  |                 |
| 5460.00                                                   |                             |                            |                          |                               | A                        |                         | 42.20                           | 54.00                | -11.80                  |                 |
| 5460.00                                                   |                             |                            |                          |                               | A                        |                         | 42.69                           | 54.00                | -11.31                  |                 |
| 5725.00                                                   | 32.17                       | 100                        | 315                      |                               |                          | 3.98 35.03              | 71.17                           | 84.80                | -13.63                  | <b>Ch. 140</b>  |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = Fm - \Delta m$$

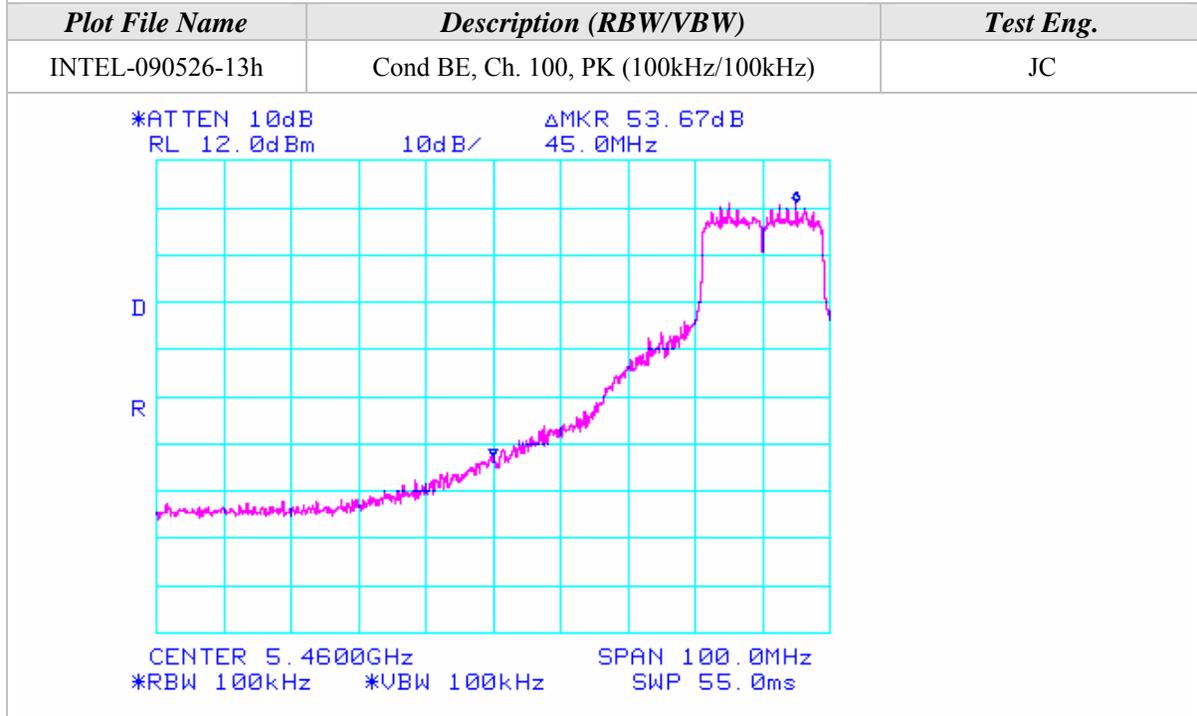
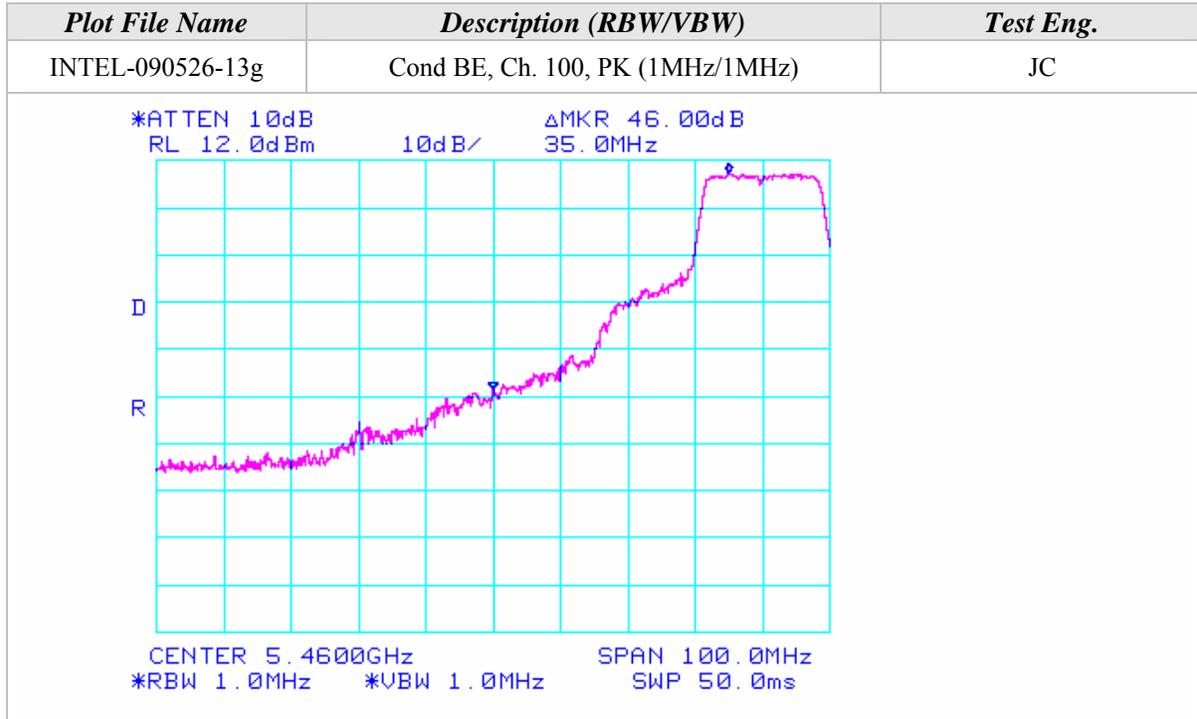
Where

BE = Band Edge Field Strength

Fm = Measured Fundamental (Peak or Average)

Δm = Measured Conducted Band Edge Delta (Peak or Average)

Band-Edge Plots (Continued)

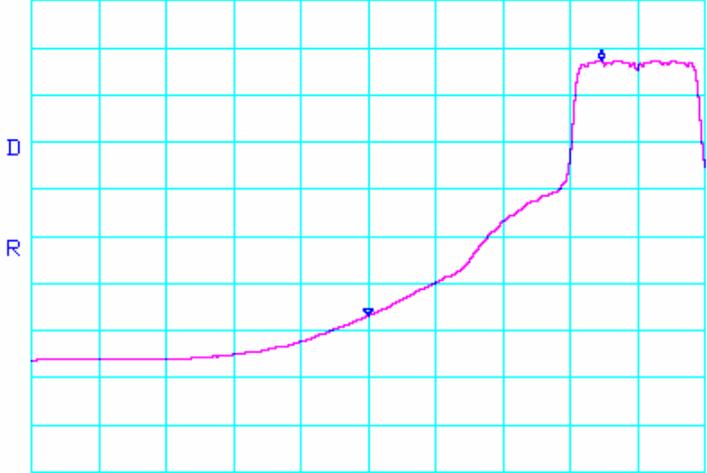


Band-Edge Plots (Continued)

| <i>Plot File Name</i> | <i>Description (RBW/VBW)</i>     | <i>Test Eng.</i> |
|-----------------------|----------------------------------|------------------|
| INTEL-090526-13i      | Cond BE, Ch. 100, AV (1MHz/10Hz) | JC               |

\*ATTEN 10dB                                  ΔMKR 54.16dB  
 RL 12.0dBm                                  10dB/                                  34.7MHz



D  
R

CENTER 5.4600GHz                                  SPAN 100.0MHz  
 \*RBW 1.0MHz                                  \*VBW 10Hz                                  SWP 37.0sec



Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11n mode 20MHz Wide (5470-5725 MHz)  
Channels 100, 120, & 140  
Continuous TX at Chain A & B Antenna ports with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-07*

**RADIATED EMISSIONS - Horizontal Antenna Polarization**

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +/-FAIL | Channel/Chain Tested |
|-------------|----------------------|---------------------|-------------------|------------------------|---|--------------------|-------------------|------------------|--------------------------|---------------|-------------------|----------------------|
| 3733.33     | 53.50                | 100                 | 315               |                        |   | 47.55              | 3.19              | 33.08            | 42.22                    | 74.00         | -31.78            | <b>Ch. 120/</b>      |
| 3733.33     |                      | 100                 | 315               | 42.73                  | A | 47.55              | 3.19              | 33.08            | 31.45                    | 54.00         | -22.55            | <b>A</b>             |
| 7466.66     | 54.17                | 100                 | 0                 |                        |   | 45.68              | 4.60              | 35.71            | 48.79                    | 74.00         | -25.21            |                      |
| 7466.66     |                      | 100                 | 0                 | 46.73                  | A | 45.68              | 4.60              | 35.71            | 41.35                    | 54.00         | -12.65            |                      |
| 3733.33     | 53.67                | 100                 | 315               |                        |   | 47.55              | 3.19              | 33.08            | 42.39                    | 74.00         | -31.61            | <b>Ch. 120/</b>      |
| 3733.33     |                      | 100                 | 315               | 43.30                  | A | 47.55              | 3.19              | 33.08            | 32.02                    | 54.00         | -21.98            | <b>B</b>             |
| 7466.66     | 54.00                | 100                 | 0                 |                        |   | 45.68              | 4.60              | 35.71            | 48.62                    | 74.00         | -25.38            |                      |
| 7466.66     |                      | 100                 | 0                 | 45.79                  | A | 45.68              | 4.60              | 35.71            | 40.41                    | 54.00         | -13.59            |                      |
| 3666.66     | 54.00                | 100                 | 315               |                        |   | 47.58              | 3.17              | 33.00            | 42.59                    | 74.00         | -31.41            | <b>Ch. 100/</b>      |
| 3666.66     |                      | 100                 | 315               | 42.50                  | A | 47.58              | 3.17              | 33.00            | 31.09                    | 54.00         | -22.91            | <b>A</b>             |
| 7333.32     | 52.17                | 100                 | 0                 |                        |   | 45.81              | 4.55              | 35.73            | 46.64                    | 74.00         | -27.36            |                      |
| 7333.32     |                      | 100                 | 0                 | 41.08                  | A | 45.81              | 4.55              | 35.73            | 35.55                    | 54.00         | -18.45            |                      |
| 3800.00     | 53.50                | 100                 | 0                 |                        |   | 47.54              | 3.24              | 33.16            | 42.36                    | 74.00         | -31.64            | <b>Ch. 140/</b>      |
| 3800.00     |                      | 100                 | 0                 | 41.08                  | A | 47.54              | 3.24              | 33.16            | 29.94                    | 54.00         | -24.06            | <b>A</b>             |
| 7600.00     | 53.67                | 100                 | 0                 |                        |   | 45.60              | 4.64              | 35.76            | 48.46                    | 74.00         | -25.54            |                      |
| 7600.00     |                      | 100                 | 0                 | 45.68                  | A | 45.60              | 4.64              | 35.76            | 40.47                    | 54.00         | -13.53            |                      |

**RADIATED EMISSIONS - Vertical Antenna Polarization**

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +/-FAIL | Comments        |
|-------------|----------------------|---------------------|-------------------|------------------------|---|--------------------|-------------------|------------------|--------------------------|---------------|-------------------|-----------------|
| 3733.33     | 53.50                | 100                 | 315               |                        |   | 47.55              | 3.19              | 32.97            | 42.11                    | 74.00         | -31.89            | <b>Ch. 120/</b> |
| 3733.33     |                      | 100                 | 315               | 42.65                  | A | 47.55              | 3.19              | 32.97            | 31.26                    | 54.00         | -22.74            | <b>A</b>        |
| 7466.66     | 55.17                | 100                 | 0                 |                        |   | 45.68              | 4.60              | 35.69            | 49.78                    | 74.00         | -24.22            |                 |
| 7466.66     |                      | 100                 | 0                 | 46.20                  | A | 45.68              | 4.60              | 35.69            | 40.81                    | 54.00         | -13.19            |                 |
| 3733.33     | 53.83                | 100                 | 315               |                        |   | 47.55              | 3.19              | 32.97            | 42.44                    | 74.00         | -31.56            | <b>Ch. 120/</b> |
| 3733.33     |                      | 100                 | 315               | 43.51                  | A | 47.55              | 3.19              | 32.97            | 32.12                    | 54.00         | -21.88            | <b>B</b>        |
| 7466.66     | 55.00                | 100                 | 0                 |                        |   | 45.68              | 4.60              | 35.69            | 49.61                    | 74.00         | -24.39            |                 |
| 7466.66     |                      | 100                 | 0                 | 46.73                  | A | 45.68              | 4.60              | 35.69            | 41.34                    | 54.00         | -12.66            |                 |
| 3666.66     | 53.50                | 100                 | 315               |                        |   | 47.58              | 3.17              | 32.87            | 41.96                    | 74.00         | -32.04            | <b>Ch. 100/</b> |
| 3666.66     |                      | 100                 | 315               | 43.23                  | A | 47.58              | 3.17              | 32.87            | 31.69                    | 54.00         | -22.31            | <b>B</b>        |
| 7333.32     | 51.83                | 100                 | 0                 |                        |   | 45.81              | 4.55              | 35.67            | 46.23                    | 74.00         | -27.77            |                 |
| 7333.32     |                      | 100                 | 0                 | 41.35                  | A | 45.81              | 4.55              | 35.67            | 35.75                    | 54.00         | -18.25            |                 |
| 3800.00     | 53.83                | 100                 | 45                |                        |   | 47.54              | 3.24              | 33.08            | 42.61                    | 74.00         | -31.39            | <b>Ch. 140/</b> |
| 3800.00     |                      | 100                 | 45                | 43.16                  | A | 47.54              | 3.24              | 33.08            | 31.94                    | 54.00         | -22.06            | <b>B</b>        |
| 7600.00     | 54.67                | 100                 | 0                 |                        |   | 45.60              | 4.64              | 35.74            | 49.44                    | 74.00         | -24.56            |                 |
| 7600.00     |                      | 100                 | 0                 | 46.40                  | A | 45.60              | 4.64              | 35.74            | 41.17                    | 54.00         | -12.83            |                 |



Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11n mode 20MHz Wide (5470-5725 MHz)  
Channels 100, 120, & 140  
Continuous TX at Dual Chain AB Antenna ports with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-07*

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                      |                     |                   |                        |   |                    |                   |                  |                          |               |                   |                      |
|-------------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|--------------------|-------------------|------------------|--------------------------|---------------|-------------------|----------------------|
| Freq. (MHz)                                                 | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +/-FAIL | Channel/Chain Tested |
| 3666.66                                                     | 54.83                | 100                 | 225               |                        |   | 50.75              | 3.17              | 33.00            | 40.25                    | 74.00         | -33.75            | <b>Ch. 100/</b>      |
| 3666.66                                                     |                      |                     |                   | 42.24                  | A | 50.75              | 3.17              | 33.00            | 27.66                    | 54.00         | -26.34            | <b>AB</b>            |
| 7333.33                                                     | 53.00                | 100                 | 225               |                        |   | 50.26              | 4.55              | 35.90            | 43.19                    | 74.00         | -30.81            |                      |
| 7333.33                                                     |                      |                     |                   | 42.19                  | A | 50.26              | 4.55              | 35.90            | 32.38                    | 54.00         | -21.62            |                      |
| 3733.33                                                     | 51.00                | 100                 | 135               |                        |   | 50.76              | 3.19              | 33.08            | 36.51                    | 74.00         | -37.49            | <b>Ch. 120/</b>      |
| 3733.33                                                     |                      |                     |                   | 40.95                  | A | 50.76              | 3.19              | 33.08            | 26.46                    | 54.00         | -27.54            | <b>AB</b>            |
| 7466.66                                                     | 52.17                | 100                 | 225               |                        |   | 50.20              | 4.60              | 35.98            | 42.55                    | 74.00         | -31.45            |                      |
| 7466.66                                                     |                      |                     |                   | 43.30                  | A | 50.20              | 4.60              | 35.98            | 33.68                    | 54.00         | -20.32            |                      |
| 11199.99                                                    | 52.50                | 100                 | 270               |                        |   | 50.48              | 5.75              | 38.22            | 45.99                    | 74.00         | -28.01            |                      |
| 11199.99                                                    |                      |                     |                   | 40.00                  | A | 50.48              | 5.75              | 38.22            | 33.49                    | 54.00         | -20.51            |                      |
| 3800.00                                                     | 54.00                | 100                 | 225               |                        |   | 50.68              | 3.24              | 33.16            | 39.72                    | 74.00         | -34.28            | <b>Ch. 140/</b>      |
| 3800.00                                                     |                      |                     |                   | 43.55                  | A | 50.68              | 3.24              | 33.16            | 29.27                    | 54.00         | -24.73            | <b>AB</b>            |
| 7600.00                                                     | 52.00                | 100                 | 225               |                        |   | 50.16              | 4.64              | 36.02            | 42.49                    | 74.00         | -31.51            |                      |
| 7600.00                                                     |                      |                     |                   | 40.89                  | A | 50.16              | 4.64              | 36.02            | 31.38                    | 54.00         | -22.62            |                      |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                      |                     |                   |                        |   |                    |                   |                  |                          |               |                   |                 |
|-----------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|--------------------|-------------------|------------------|--------------------------|---------------|-------------------|-----------------|
| Freq. (MHz)                                               | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +/-FAIL | Comments        |
| 3666.66                                                   | 57.33                | 100                 | 180               |                        |   | 50.75              | 3.17              | 33.07            | 42.82                    | 74.00         | -31.18            | <b>Ch. 100/</b> |
| 3666.66                                                   |                      |                     |                   | 48.75                  | A | 50.75              | 3.17              | 33.07            | 34.24                    | 54.00         | -19.76            | <b>AB</b>       |
| 7333.33                                                   | 51.50                | 100                 | 225               |                        |   | 50.26              | 4.55              | 35.93            | 41.72                    | 74.00         | -32.28            |                 |
| 7333.33                                                   |                      |                     |                   | 42.78                  | A | 50.26              | 4.55              | 35.93            | 33.00                    | 54.00         | -21.00            |                 |
| 3733.33                                                   | 52.17                | 100                 | 90                |                        |   | 50.76              | 3.19              | 33.13            | 37.74                    | 74.00         | -36.26            | <b>Ch. 120/</b> |
| 3733.33                                                   |                      |                     |                   | 43.26                  | A | 50.76              | 3.19              | 33.13            | 28.83                    | 54.00         | -25.17            | <b>AB</b>       |
| 7466.66                                                   | 53.67                | 100                 | 135               |                        |   | 50.20              | 4.60              | 36.07            | 44.14                    | 74.00         | -29.86            |                 |
| 7466.66                                                   |                      |                     |                   | 46.61                  | A | 50.20              | 4.60              | 36.07            | 37.08                    | 54.00         | -16.92            |                 |
| 11200.00                                                  | 53.33                | 100                 | 225               |                        |   | 50.48              | 5.75              | 38.10            | 46.70                    | 74.00         | -27.30            |                 |
| 11200.00                                                  |                      |                     |                   | 41.99                  | A | 50.48              | 5.75              | 38.10            | 35.36                    | 54.00         | -18.64            |                 |
| 3800.00                                                   | 54.50                | 100                 | 180               |                        |   | 50.68              | 3.24              | 33.20            | 40.26                    | 74.00         | -33.74            | <b>Ch. 140/</b> |
| 3800.00                                                   |                      |                     |                   | 46.59                  | A | 50.68              | 3.24              | 33.20            | 32.35                    | 54.00         | -21.65            | <b>AB</b>       |
| 7600.00                                                   | 55.00                | 100                 | 180               |                        |   | 50.16              | 4.64              | 36.12            | 45.59                    | 74.00         | -28.41            |                 |
| 7600.00                                                   |                      |                     |                   | 48.17                  | A | 50.16              | 4.64              | 36.12            | 38.76                    | 54.00         | -15.24            |                 |
| 11400.00                                                  | 50.83                | 100                 | 135               | 53.67                  |   | 50.51              | 5.86              | 38.30            | 47.31                    | 74.00         | -26.69            |                 |
| 11400.00                                                  |                      |                     |                   | 40.10                  | A | 50.51              | 5.86              | 38.30            | 33.74                    | 54.00         | -20.26            |                 |

**RADIATED EMISSIONS TEST RESULTS**

|                       |                                                                                                                                       |                        |              |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                                     | <b>DATE:</b>           | 08/17/09     |
| <b>EUT:</b>           | Intel® Centrino® Ultimate-N 6200                                                                                                      | <b>PROJECT NUMBER:</b> | INTEL-090601 |
| <b>MODEL NUMBER:</b>  | 622ANHMW                                                                                                                              | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 0015005A3C7C                                                                                                                          | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in an extender board connected to the host laptop's mini PCI slot in <b>802.11n (5740-5745 MHz) mode 40MHz Wide.</b> | <b>TEMPERATURE:</b>    | 24° C        |
|                       |                                                                                                                                       | <b>HUMIDITY:</b>       | 46% RH       |
|                       |                                                                                                                                       | <b>TIME:</b>           | 9:30 AM      |

|                     |                                                                                                                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description:</b> | Radiated RF Emissions (1 GHz – 18 GHz)                                                                                                                                                      |
| <b>Results:</b>     | <b>PASSED</b> Horizontal and Vertical Antenna Polarizations Class B Limits                                                                                                                  |
| <b>Note:</b>        | Radiated Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. <ul style="list-style-type: none"> <li>• 120VAC / 60 Hz.</li> </ul> |

| <b>Unwanted Spurious Emissions Limits</b> |                              |                                                                        |                                                                              |
|-------------------------------------------|------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <b>Frequency (MHz)</b>                    | <b>Field Strength (uV/m)</b> | <b>Field Strength (dBuV/m)<br/>(Emissions in the restricted bands)</b> | <b>Field Strength (dBm/MHz)<br/>(Emissions outside the restricted bands)</b> |
| Above 960                                 | 500                          | 54.00 (Average)<br>74.00 (Peak)                                        | < -20 dBc                                                                    |

## Radiated Emissions Sample Calculations

$$\text{Corrected Meter Reading} = \text{Meter Reading} + F + C - D$$

Where, F = Antenna Factor

C = Cable Factor

G = Amplifier Gain

D = Distance Factor (if applicable)

Therefore, the equation for determining the Corrected Meter Reading Limit (CML) is:

$$\text{CML} = \text{Specification Limit} - F - C + D$$



Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11n mode 40MHz Wide (5470-5725 MHz)  
Channels 102, 118, & 134  
Continuous TX at Chain A Antenna port with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-02*

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                      |                     |                   |                        |   |                   |                  |                          |               |                  |                |
|-------------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|-------------------|------------------|--------------------------|---------------|------------------|----------------|
| Freq. (MHz)                                                 | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments       |
| 5510.00                                                     | 62.72                | 100                 | 45                |                        |   | 3.89              | 34.61            | 101.23                   |               |                  | <b>Ch. 102</b> |
| 5510.00                                                     |                      |                     |                   | 53.93                  | A | 3.89              | 34.61            | 92.44                    |               |                  |                |
| 5590.00                                                     | 61.69                | 100                 | 45                |                        |   | 3.92              | 34.71            | 100.32                   |               |                  | <b>Ch. 118</b> |
| 5590.00                                                     |                      |                     |                   | 52.57                  | A | 3.92              | 34.71            | 91.20                    |               |                  |                |
| 5670.00                                                     | 61.15                | 100                 | 45                |                        |   | 3.95              | 34.80            | 99.91                    |               |                  | <b>Ch. 134</b> |
| 5670.00                                                     |                      |                     |                   | 52.10                  | A | 3.95              | 34.80            | 90.86                    |               |                  |                |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                      |                     |                   |                        |   |                   |                  |                          |               |                  |                |
|-----------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|-------------------|------------------|--------------------------|---------------|------------------|----------------|
| Freq. (MHz)                                               | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments       |
| 5510.00                                                   | 62.13                | 100                 | 315               |                        |   | 3.89              | 34.81            | 100.83                   |               |                  | <b>Ch. 102</b> |
| 5510.00                                                   |                      |                     |                   | 52.12                  | A | 3.89              | 34.81            | 90.82                    |               |                  |                |
| 5590.00                                                   | 62.48                | 100                 | 315               |                        |   | 3.92              | 34.89            | 101.29                   |               |                  | <b>Ch. 118</b> |
| 5590.00                                                   |                      |                     |                   | 52.39                  | A | 3.92              | 34.89            | 91.20                    |               |                  |                |
| 5670.00                                                   | 60.54                | 100                 | 315               |                        |   | 3.95              | 34.97            | 99.46                    |               |                  | <b>Ch. 134</b> |
| 5670.00                                                   |                      |                     |                   | 50.69                  | A | 3.95              | 34.97            | 89.61                    |               |                  |                |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.



Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11n mode 40MHz Wide (5470-5725 MHz)  
Channels 102 & 134  
Continuous TX at Chain A Antenna port with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-02*

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                      |                     |                   |                        |                   |                  |                          |               |                  |                |
|-------------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|-------------------|------------------|--------------------------|---------------|------------------|----------------|
| Freq. (MHz)                                                 | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments       |
| 5460.00                                                     |                      |                     |                   |                        |                   |                  | 61.73                    | 74.00         | -12.27           | <b>Ch. 102</b> |
| 5460.00                                                     |                      |                     |                   |                        |                   |                  | 57.73                    | 74.00         | -16.27           |                |
| 5460.00                                                     |                      |                     |                   |                        | A                 |                  | 48.60                    | 54.00         | -5.40            |                |
| 5460.00                                                     |                      |                     |                   |                        | A                 |                  | 48.94                    | 54.00         | -5.06            |                |
| 5725.00                                                     | 31.49                | 100                 | 45                |                        | 3.98              | 34.87            | 70.34                    | 79.91         | -9.57            | <b>Ch. 134</b> |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                      |                     |                   |                        |                   |                  |                          |               |                  |                |
|-----------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|-------------------|------------------|--------------------------|---------------|------------------|----------------|
| Freq. (MHz)                                               | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments       |
| 5460.00                                                   |                      |                     |                   |                        |                   |                  | 61.33                    | 74.00         | -12.67           | <b>Ch. 102</b> |
| 5460.00                                                   |                      |                     |                   |                        |                   |                  | 57.33                    | 74.00         | -16.67           |                |
| 5460.00                                                   |                      |                     |                   |                        | A                 |                  | 46.98                    | 54.00         | -7.02            |                |
| 5460.00                                                   |                      |                     |                   |                        | A                 |                  | 47.32                    | 54.00         | -6.68            |                |
| 5725.00                                                   | 30.89                | 100                 | 315               |                        | 3.98              | 35.03            | 69.89                    | 79.46         | -9.57            | <b>Ch. 134</b> |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = Fm - \Delta m$$

Where

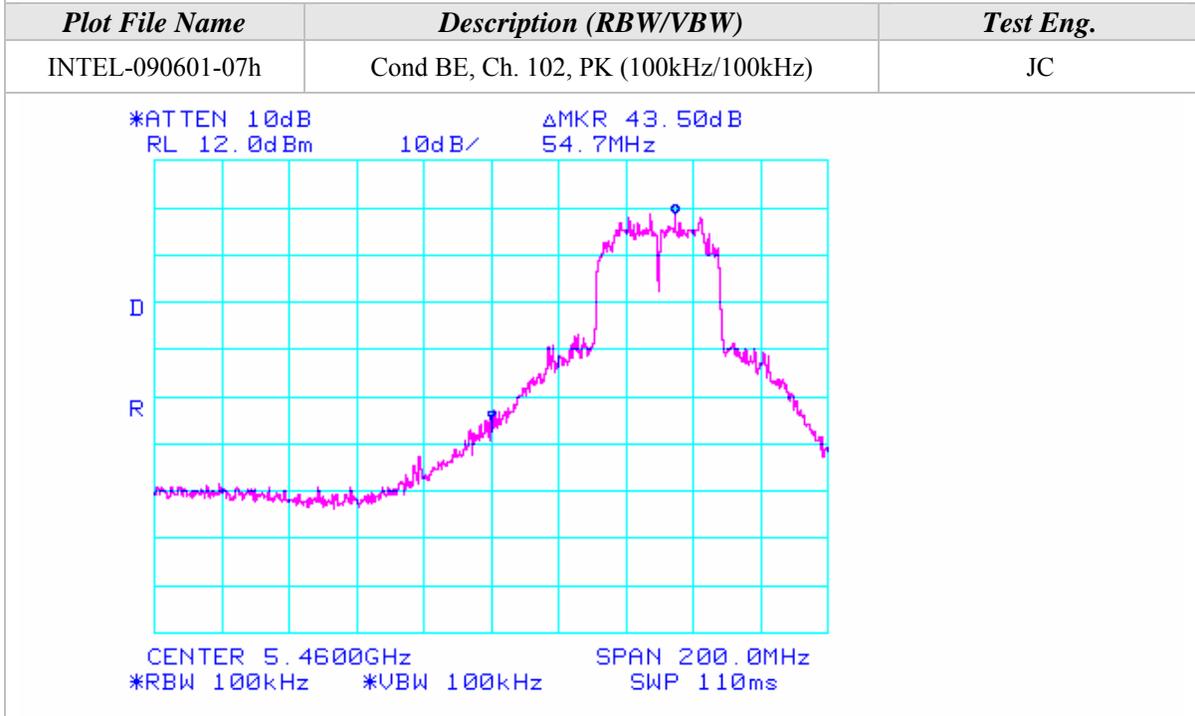
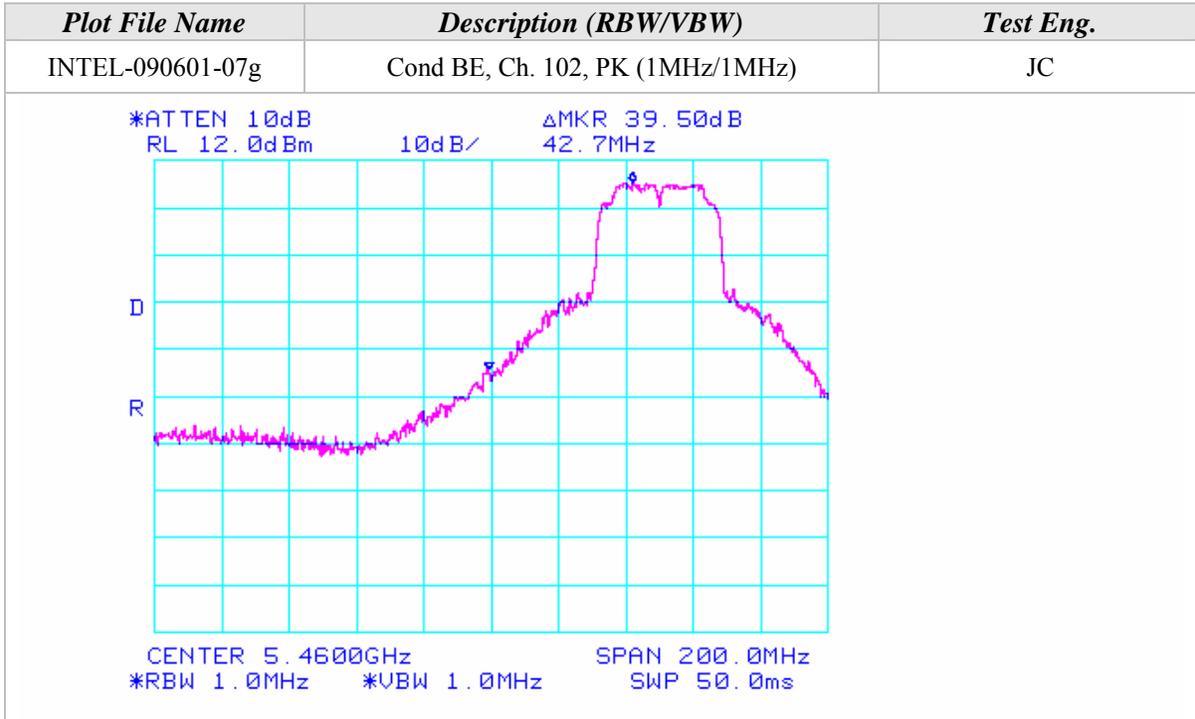
BE = Band Edge Field Strength

Fm = Measured Fundamental (Peak or Average)

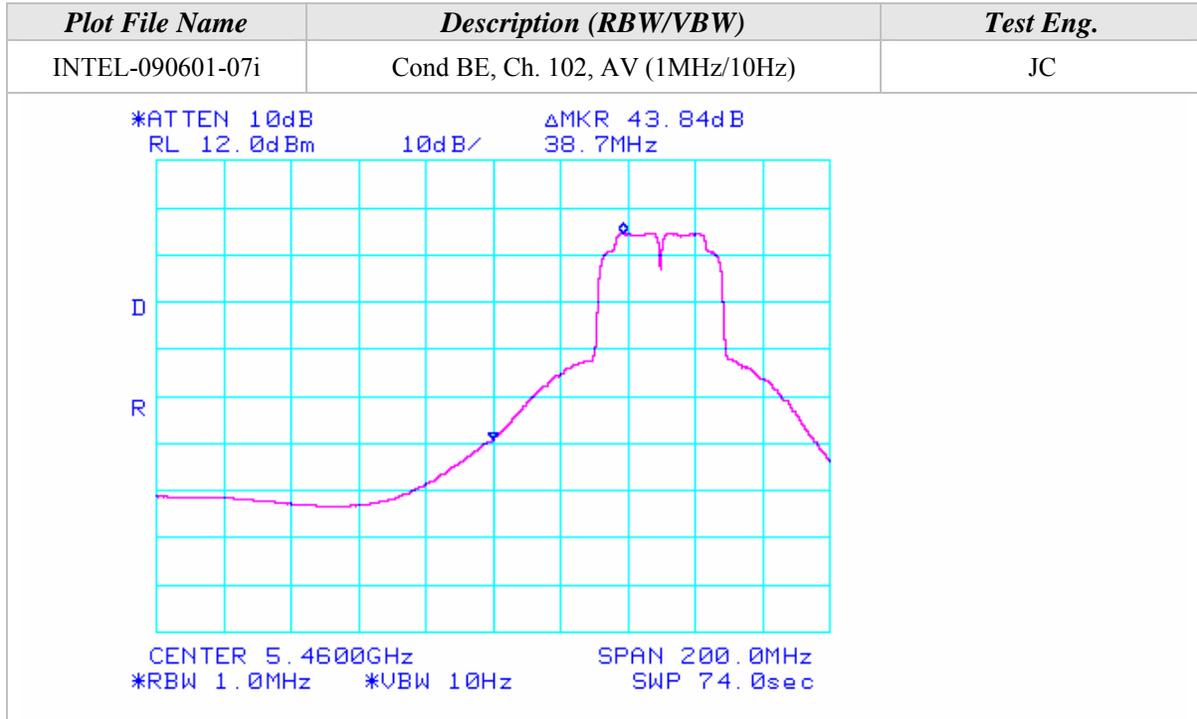
Δm = Measured Conducted Band Edge Delta (Peak or Average)



Band-Edge Plots (Continued)



### Band-Edge Plots (Continued)





Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11n mode 40MHz Wide (5470-5725 MHz)  
Channels 102, 118, & 134  
Continuous TX at Chain B Antenna port with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-04*

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                      |                     |                   |                        |   |                   |                  |                          |               |                   |                |
|-------------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|-------------------|------------------|--------------------------|---------------|-------------------|----------------|
| Freq. (MHz)                                                 | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +/-FAIL | Comments       |
| 5510.00                                                     | 61.83                | 100                 | 315               |                        |   | 3.89              | 34.61            | 100.34                   |               |                   | <b>Ch. 102</b> |
| 5510.00                                                     |                      |                     |                   | 52.33                  | A | 3.89              | 34.61            | 90.84                    |               |                   |                |
| 5590.00                                                     | 63.00                | 100                 | 0                 |                        |   | 3.92              | 34.71            | 101.63                   |               |                   | <b>Ch. 118</b> |
| 5590.00                                                     |                      |                     |                   | 53.50                  | A | 3.92              | 34.71            | 92.13                    |               |                   |                |
| 5670.00                                                     | 61.67                | 100                 | 315               |                        |   | 3.95              | 34.80            | 100.43                   |               |                   | <b>Ch. 134</b> |
| 5670.00                                                     |                      |                     |                   | 52.33                  | A | 3.95              | 34.80            | 91.09                    |               |                   |                |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                      |                     |                   |                        |   |                   |                  |                          |               |                   |                |
|-----------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|-------------------|------------------|--------------------------|---------------|-------------------|----------------|
| Freq. (MHz)                                               | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +/-FAIL | Comments       |
| 5510.00                                                   | 62.00                | 100                 | 90                |                        |   | 3.89              | 34.81            | 100.70                   |               |                   | <b>Ch. 102</b> |
| 5510.00                                                   |                      |                     |                   | 51.67                  | A | 3.89              | 34.81            | 90.37                    |               |                   |                |
| 5590.00                                                   | 62.17                | 100                 | 90                |                        |   | 3.92              | 34.89            | 100.98                   |               |                   | <b>Ch. 118</b> |
| 5590.00                                                   |                      |                     |                   | 52.00                  | A | 3.92              | 34.89            | 90.81                    |               |                   |                |
| 5670.00                                                   | 58.33                | 100                 | 315               |                        |   | 3.95              | 34.97            | 97.25                    |               |                   | <b>Ch. 134</b> |
| 5670.00                                                   |                      |                     |                   | 48.67                  | A | 3.95              | 34.97            | 87.59                    |               |                   |                |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.



Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11n mode 40MHz Wide (5470-5725 MHz)  
Channels 102 & 134  
Continuous TX at Chain B Antenna port with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-04*

| RADIATED EMISSIONS - Horizontal Antenna Polarization |                      |                     |                   |                        |                   |                  |                          |               |                  |                |
|------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|-------------------|------------------|--------------------------|---------------|------------------|----------------|
| Freq. (MHz)                                          | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments       |
| 5460.00                                              |                      |                     |                   |                        |                   |                  | 60.84                    | 74.00         | -13.16           | <b>Ch. 102</b> |
| 5460.00                                              |                      |                     |                   |                        |                   | 55.67            | 74.00                    | -18.33        |                  |                |
| 5460.00                                              |                      |                     |                   | A                      |                   | 48.01            | 54.00                    | -5.99         |                  |                |
| 5460.00                                              |                      |                     |                   | A                      |                   | 46.17            | 54.00                    | -7.83         |                  |                |
| 5725.00                                              | 31.33                | 100                 | 315               |                        | 3.98              | 34.87            | 70.18                    | 80.43         | -10.25           |                |

| RADIATED EMISSIONS - Vertical Antenna Polarization |                      |                     |                   |                        |                   |                  |                          |               |                  |                |
|----------------------------------------------------|----------------------|---------------------|-------------------|------------------------|-------------------|------------------|--------------------------|---------------|------------------|----------------|
| Freq. (MHz)                                        | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments       |
| 5460.00                                            |                      |                     |                   |                        |                   |                  | 61.20                    | 74.00         | -12.80           | <b>Ch. 102</b> |
| 5460.00                                            |                      |                     |                   |                        |                   | 56.03            | 74.00                    | -17.97        |                  |                |
| 5460.00                                            |                      |                     |                   | A                      |                   | 47.54            | 54.00                    | -6.46         |                  |                |
| 5460.00                                            |                      |                     |                   | A                      |                   | 45.70            | 54.00                    | -8.30         |                  |                |
| 5725.00                                            | 30.33                | 100                 | 315               |                        | 3.98              | 35.03            | 69.33                    | 77.25         | -7.92            |                |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = Fm - \Delta m$$

Where

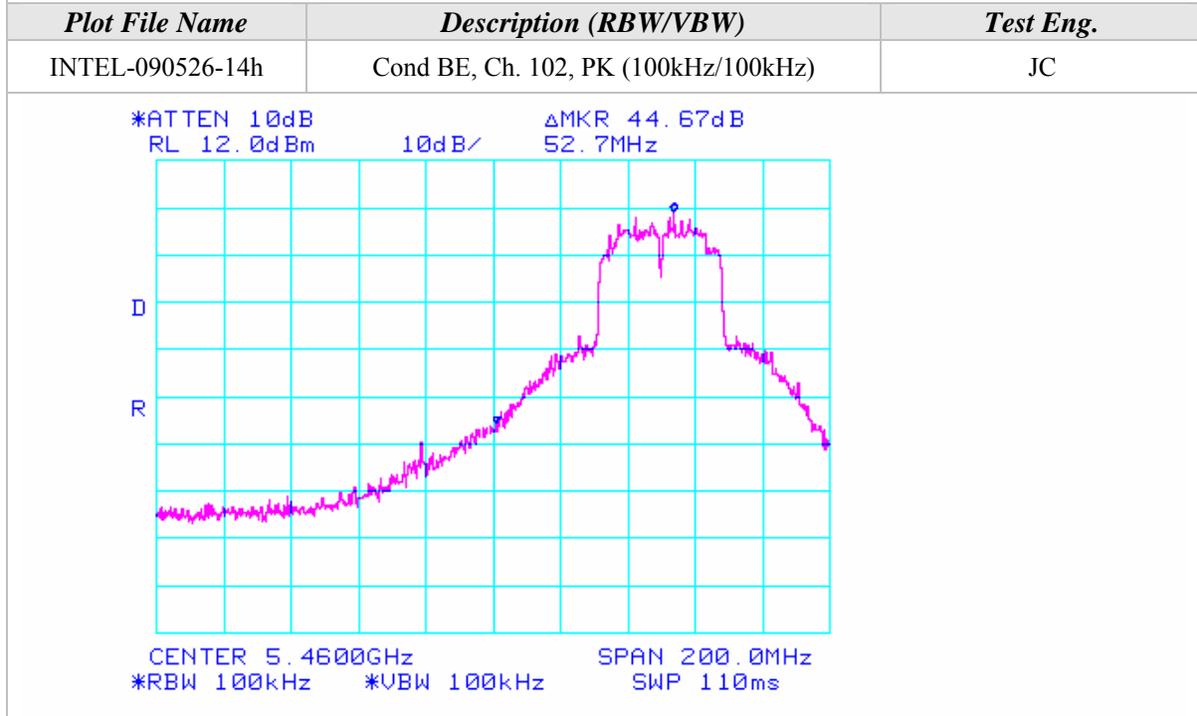
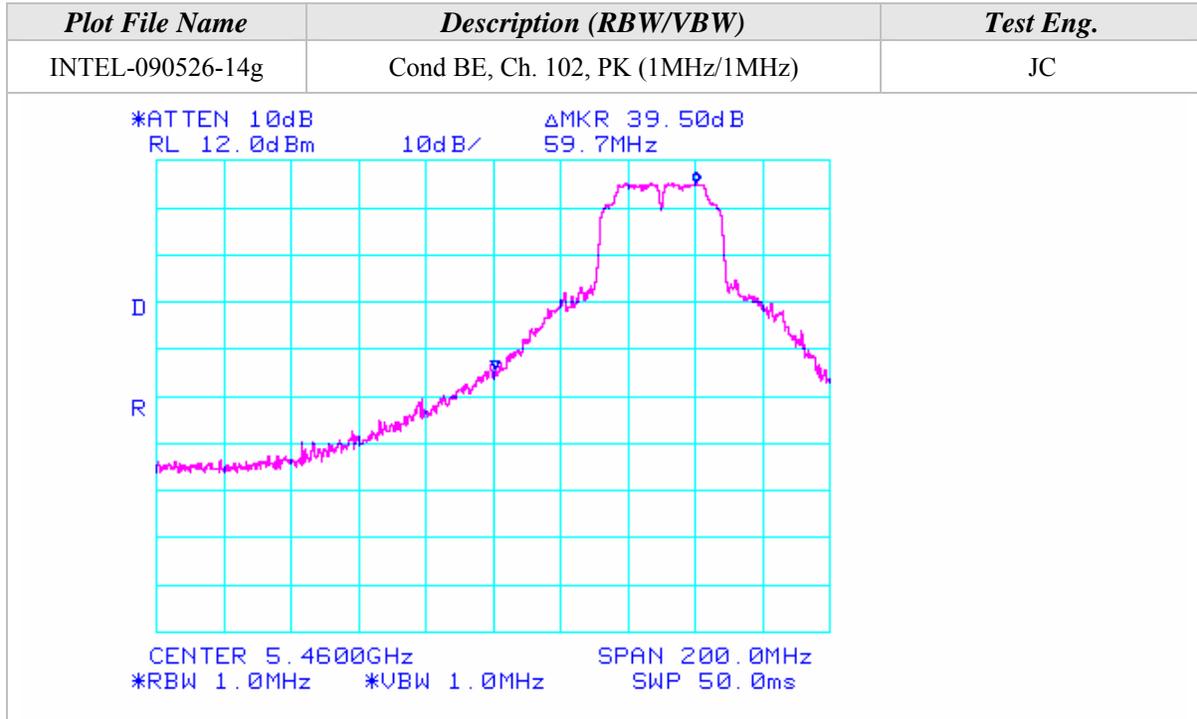
BE = Band Edge Field Strength

Fm = Measured Fundamental (Peak or Average)

Δm = Measured Conducted Band Edge Delta (Peak or Average)



Band-Edge Plots (Continued)





Band-Edge Plots (Continued)

| <i>Plot File Name</i>                                                                                                                                       | <i>Description (RBW/VBW)</i>     | <i>Test Eng.</i> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------|
| INTEL-090526-14i                                                                                                                                            | Cond BE, Ch. 102, AV (1MHz/10Hz) | JC               |
| <p>*ATTEN 10dB<br/>RL 12.0dBm 10dB/ ΔMKR 42.83dB<br/>38.7MHz</p> <p>D<br/>R</p> <p>CENTER 5.4600GHz SPAN 200.0MHz<br/>*RBW 1.0MHz *VBW 10Hz SWP 74.0sec</p> |                                  |                  |



Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11n mode 40MHz Wide (5470-5725 MHz)  
Channels 102, 118, & 134  
Continuous TX at Chain A & B Antenna ports with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-07*

**RADIATED EMISSIONS - Horizontal Antenna Polarization**

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +/-FAIL | Channel/Chain Tested |
|-------------|----------------------|---------------------|-------------------|------------------------|---|--------------------|-------------------|------------------|--------------------------|---------------|-------------------|----------------------|
| 3733.33     | 52.83                | 100                 | 225               |                        |   | 46.55              | 2.53              | 32.91            | 41.72                    | 74.00         | -32.28            | <b>Ch. 118/</b>      |
| 3733.33     |                      |                     |                   | 42.17                  | A | 46.55              | 2.53              | 32.91            | 31.06                    | 54.00         | -22.94            | <b>A</b>             |
| 7466.66     | 52.83                | 100                 | 225               |                        |   | 44.88              | 3.63              | 37.21            | 48.80                    | 74.00         | -25.20            |                      |
| 7466.66     |                      |                     |                   | 42.82                  | A | 44.88              | 3.63              | 37.21            | 38.79                    | 54.00         | -15.21            |                      |
| 3733.33     | 54.83                | 100                 | 180               |                        |   | 46.55              | 2.53              | 32.91            | 43.72                    | 74.00         | -30.28            | <b>Ch. 118/</b>      |
| 3733.33     |                      |                     |                   | 46.87                  | A | 46.55              | 2.53              | 32.91            | 35.76                    | 54.00         | -18.24            | <b>B</b>             |
| 7466.66     | 54.67                | 100                 | 225               |                        |   | 44.88              | 3.63              | 37.21            | 50.64                    | 74.00         | -23.36            |                      |
| 7466.66     |                      |                     |                   | 42.46                  | A | 44.88              | 3.63              | 37.21            | 38.43                    | 54.00         | -15.57            |                      |
| 3666.66     | 54.83                | 100                 | 225               |                        |   | 46.56              | 2.50              | 32.77            | 43.53                    | 74.00         | -30.47            | <b>Ch. 102/</b>      |
| 3666.66     |                      |                     |                   | 42.24                  | A | 46.56              | 2.50              | 32.77            | 30.94                    | 54.00         | -23.06            | <b>A</b>             |
| 7333.33     | 53.00                | 100                 | 225               |                        |   | 44.92              | 3.60              | 36.87            | 48.54                    | 74.00         | -25.46            |                      |
| 7333.33     |                      |                     |                   | 42.19                  | A | 44.92              | 3.60              | 36.87            | 37.73                    | 54.00         | -16.27            |                      |
| 3800.00     | 54.00                | 100                 | 225               |                        |   | 46.54              | 2.55              | 33.06            | 43.08                    | 74.00         | -30.92            | <b>Ch. 134/</b>      |
| 3800.00     |                      |                     |                   | 43.55                  | A | 46.54              | 2.55              | 33.06            | 32.63                    | 54.00         | -21.37            | <b>A</b>             |
| 7600.00     | 52.00                | 100                 | 225               |                        |   | 44.86              | 3.67              | 37.36            | 48.17                    | 74.00         | -25.83            |                      |
| 7600.00     |                      |                     |                   | 40.89                  | A | 44.86              | 3.67              | 37.36            | 37.06                    | 54.00         | -16.94            |                      |

**RADIATED EMISSIONS - Vertical Antenna Polarization**

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +/-FAIL | Comments        |
|-------------|----------------------|---------------------|-------------------|------------------------|---|--------------------|-------------------|------------------|--------------------------|---------------|-------------------|-----------------|
| 3733.33     | 53.83                | 100                 | 270               |                        |   | 46.55              | 2.53              | 32.51            | 42.31                    | 74.00         | -31.69            | <b>Ch. 118/</b> |
| 3733.33     |                      |                     |                   | 42.63                  | A | 46.55              | 2.53              | 32.51            | 31.11                    | 54.00         | -22.89            | <b>A</b>        |
| 7466.66     | 52.50                | 100                 | 225               |                        |   | 44.88              | 3.63              | 37.11            | 48.37                    | 74.00         | -25.63            |                 |
| 7466.66     |                      |                     |                   | 41.32                  | A | 44.88              | 3.63              | 37.11            | 37.19                    | 54.00         | -16.81            |                 |
| 3733.33     | 56.33                | 100                 | 225               |                        |   | 46.55              | 2.53              | 32.51            | 44.81                    | 74.00         | -29.19            | <b>Ch. 118/</b> |
| 3733.33     |                      |                     |                   | 49.15                  | A | 46.55              | 2.53              | 32.51            | 37.63                    | 54.00         | -16.37            | <b>B</b>        |
| 7466.66     | 55.00                | 100                 | 180               |                        |   | 44.88              | 3.63              | 37.11            | 50.87                    | 74.00         | -23.13            |                 |
| 7466.66     |                      |                     |                   | 48.44                  | A | 44.88              | 3.63              | 37.11            | 44.31                    | 54.00         | -9.69             |                 |
| 11200.00    | 49.17                | 100                 | 135               |                        |   | 45.09              | 4.55              | 38.96            | 47.60                    | 74.00         | -26.40            |                 |
| 11200.00    |                      |                     |                   | 39.08                  | A | 45.09              | 4.55              | 38.96            | 37.51                    | 54.00         | -16.49            |                 |
| 3666.66     | 57.33                | 100                 | 180               |                        |   | 46.56              | 2.50              | 32.33            | 45.60                    | 74.00         | -28.40            | <b>Ch. 102/</b> |
| 3666.66     |                      |                     |                   | 48.75                  | A | 46.56              | 2.50              | 32.33            | 37.02                    | 54.00         | -16.98            | <b>B</b>        |
| 7333.33     | 51.50                | 100                 | 225               |                        |   | 44.92              | 3.60              | 36.77            | 46.94                    | 74.00         | -27.06            |                 |
| 7333.33     |                      |                     |                   | 42.78                  | A | 44.92              | 3.60              | 36.77            | 38.22                    | 54.00         | -15.78            |                 |
| 3800.00     | 54.50                | 100                 | 180               |                        |   | 46.54              | 2.55              | 32.68            | 43.20                    | 74.00         | -30.80            | <b>Ch. 134/</b> |
| 3800.00     |                      |                     |                   | 46.59                  | A | 46.54              | 2.55              | 32.68            | 35.29                    | 54.00         | -18.71            | <b>B</b>        |
| 7600.00     | 55.00                | 100                 | 180               |                        |   | 44.86              | 3.67              | 37.24            | 51.05                    | 74.00         | -22.95            |                 |
| 7600.00     |                      |                     |                   | 48.17                  | A | 44.86              | 3.67              | 37.24            | 44.22                    | 54.00         | -9.78             |                 |
| 11400.00    | 50.83                | 100                 | 135               | 53.67                  |   | 45.04              | 4.61              | 39.12            | 52.36                    | 74.00         | -21.64            |                 |
| 11400.00    |                      |                     |                   | 40.10                  | A | 45.04              | 4.61              | 39.12            | 38.79                    | 54.00         | -15.21            |                 |



Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11n mode 40MHz Wide (5470-5725 MHz)  
Channels 102, 118, & 134  
Continuous TX at Dual Chain AB Antenna ports with Shanghai Universe Antennas  
Aegis Labs, Inc. File #: INTEL-090601-07*

| <b>RADIATED EMISSIONS - Horizontal Antenna Polarization</b> |                      |                     |                   |                        |   |                    |                   |                  |                          |               |                  |                       |
|-------------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|--------------------|-------------------|------------------|--------------------------|---------------|------------------|-----------------------|
| Freq. (MHz)                                                 | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Channel/ Chain Tested |
| 3673.33                                                     | 52.67                | 100                 | 45                |                        |   | 47.58              | 3.17              | 33.01            | 41.27                    | 68.00         | -26.73           | <b>Ch. 102/</b>       |
| 3673.33                                                     |                      | 100                 | 45                | 40.62                  |   | 47.58              | 3.17              | 33.01            | 29.22                    | 74.00         | -44.78           | <b>AB</b>             |
| 7346.66                                                     | 52.50                | 100                 | 315               |                        |   | 45.80              | 4.55              | 35.73            | 46.99                    | 74.00         | -27.01           |                       |
| 7346.66                                                     |                      | 100                 | 315               | 42.26                  | A | 45.80              | 4.55              | 35.73            | 36.75                    | 54.00         | -17.25           |                       |
| 3726.66                                                     | 52.83                | 100                 | 45                |                        |   | 47.55              | 3.19              | 33.07            | 41.54                    | 74.00         | -32.46           | <b>Ch. 118/</b>       |
| 3726.66                                                     |                      | 100                 | 45                | 41.44                  | A | 47.55              | 3.19              | 33.07            | 30.15                    | 54.00         | -23.85           | <b>AB</b>             |
| 7453.33                                                     | 53.53                | 100                 | 315               |                        |   | 45.70              | 4.59              | 35.71            | 48.14                    | 74.00         | -25.86           |                       |
| 7453.33                                                     |                      | 100                 | 315               | 44.60                  | A | 45.70              | 4.59              | 35.71            | 39.21                    | 54.00         | -14.79           |                       |
| 3780.00                                                     | 51.67                | 100                 | 0                 |                        |   | 47.54              | 3.23              | 33.14            | 40.49                    | 74.00         | -33.51           | <b>Ch. 134/</b>       |
| 3780.00                                                     |                      | 100                 | 0                 | 40.71                  | A | 47.54              | 3.23              | 33.14            | 29.53                    | 54.00         | -24.47           | <b>AB</b>             |
| 7560.00                                                     | 52.33                | 100                 | 0                 |                        |   | 45.62              | 4.63              | 35.74            | 47.07                    | 74.00         | -26.93           |                       |
| 7560.00                                                     |                      | 100                 | 0                 | 41.35                  | A | 45.62              | 4.63              | 35.74            | 36.09                    | 54.00         | -17.91           |                       |

| <b>RADIATED EMISSIONS - Vertical Antenna Polarization</b> |                      |                     |                   |                        |   |                    |                   |                  |                          |               |                  |                 |
|-----------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---|--------------------|-------------------|------------------|--------------------------|---------------|------------------|-----------------|
| Freq. (MHz)                                               | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL | Comments        |
| 3673.33                                                   | 52.67                | 100                 | 315               |                        |   | 47.58              | 3.17              | 32.88            | 41.14                    | 74.00         | -32.86           | <b>Ch. 102/</b> |
| 3673.33                                                   |                      | 100                 | 315               | 40.71                  | A | 47.58              | 3.17              | 32.88            | 29.18                    | 54.00         | -24.82           | <b>AB</b>       |
| 7346.66                                                   | 56.83                | 100                 | 90                |                        |   | 45.80              | 4.55              | 35.67            | 51.25                    | 74.00         | -22.75           |                 |
| 7346.66                                                   |                      | 100                 | 90                | 51.26                  | A | 45.80              | 4.55              | 35.67            | 45.68                    | 54.00         | -8.32            |                 |
| 3726.66                                                   | 55.33                | 100                 | 315               |                        |   | 47.55              | 3.19              | 32.96            | 43.93                    | 74.00         | -30.07           | <b>Ch. 118/</b> |
| 3726.66                                                   |                      | 100                 | 315               | 43.51                  | A | 47.55              | 3.19              | 32.96            | 32.11                    | 54.00         | -21.89           | <b>AB</b>       |
| 7453.33                                                   | 56.00                | 100                 | 90                |                        |   | 45.70              | 4.59              | 35.69            | 50.59                    | 74.00         | -23.41           |                 |
| 7453.33                                                   |                      | 100                 | 90                | 48.46                  | A | 45.70              | 4.59              | 35.69            | 43.05                    | 54.00         | -10.95           |                 |
| 3780.00                                                   | 52.33                | 100                 | 0                 |                        |   | 47.54              | 3.23              | 33.05            | 41.06                    | 74.00         | -32.94           | <b>Ch. 134/</b> |
| 3780.00                                                   |                      | 100                 | 0                 | 40.99                  | A | 47.54              | 3.23              | 33.05            | 29.72                    | 54.00         | -24.28           | <b>AB</b>       |
| 7560.00                                                   | 56.50                | 100                 | 0                 |                        |   | 45.62              | 4.63              | 35.72            | 51.23                    | 74.00         | -22.77           |                 |
| 7560.00                                                   |                      | 100                 | 0                 | 51.08                  | A | 45.62              | 4.63              | 35.72            | 45.81                    | 54.00         | -8.19            |                 |
| 11340.00                                                  | 51.83                | 100                 | 0                 |                        |   | 45.30              | 5.83              | 38.24            | 50.60                    | 74.00         | -23.40           |                 |
| 11340.00                                                  |                      | 100                 | 0                 | 39.50                  | A | 45.30              | 5.83              | 38.24            | 38.27                    | 54.00         | -15.73           |                 |

**MAXIMUM CONDUCTED OUTPUT POWER**

|                       |                                                                                    |                        |              |
|-----------------------|------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                  | <b>DATE:</b>           | 07/30/09     |
| <b>EUT:</b>           | Intel® Centrino® Ultimate-N 6200                                                   | <b>PROJECT NUMBER:</b> | INTEL-090601 |
| <b>MODEL NUMBER:</b>  | 622ANHMW                                                                           | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 0015005A3C7C                                                                       | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in an extender board connected to the host laptop's mini PCI slot | <b>TEMPERATURE:</b>    | 22 deg. C    |
|                       |                                                                                    | <b>HUMIDITY:</b>       | 54% RH       |
|                       |                                                                                    | <b>TIME:</b>           | 8:00 AM      |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description:</b> | <p>For the band 5.15-5.25 GHz, the Maximum Conducted Output Power over the frequency band of operation shall not exceed the lesser of 50 mW or <math>4 \text{ dBm} + 10\log B</math>, where B is the 26-dB emission bandwidth in MHz.</p> <p>For the band 5.25-5.35 GHz, the Maximum Conducted Output Power over the frequency band of operation shall not exceed the lesser of 250 mW or <math>11 \text{ dBm} + 10\log B</math>, where B is the 26-dB emission bandwidth in MHz.</p> |
| <b>Results:</b>     | Passed (See Data Sheet)                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Note:</b>        | <p>Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency.</p> <ul style="list-style-type: none"><li>120VAC / 60 Hz.</li></ul>                                                                                                                                                                                                                                                                                       |



Maximum Conducted Output Power (Continued)

| Mode    | Channel | Frequency (MHz) | Chain | Data Rate (Mbps) | Average Power* (dBm) | Average Power* (mW) | Output Power** (dBm) | Output Power** (mW) |
|---------|---------|-----------------|-------|------------------|----------------------|---------------------|----------------------|---------------------|
| 802.11a | 36      | 5180            | A     | 6                | 16.52                | <b>44.91</b>        | 16.64                | <b>46.17</b>        |
| 802.11a | 40      | 5200            | A     | 6                | 16.69                | <b>46.71</b>        | 16.84                | <b>48.35</b>        |
| 802.11a | 48      | 5240            | A     | 6                | 16.29                | <b>42.60</b>        | 16.44                | <b>44.09</b>        |
| 802.11a | 52      | 5260            | A     | 6                | 16.52                | <b>44.91</b>        | 16.64                | <b>46.17</b>        |
| 802.11a | 56      | 5280            | A     | 6                | 16.52                | <b>44.91</b>        | 16.64                | <b>46.17</b>        |
| 802.11a | 64      | 5320            | A     | 6                | 16.53                | <b>45.02</b>        | 16.74                | <b>47.25</b>        |
| 802.11a | 36      | 5180            | B     | 6                | 16.36                | <b>43.29</b>        | 16.64                | <b>46.17</b>        |
| 802.11a | 40      | 5200            | B     | 6                | 16.53                | <b>45.02</b>        | 16.74                | <b>47.25</b>        |
| 802.11a | 48      | 5240            | B     | 6                | 16.63                | <b>46.06</b>        | 16.84                | <b>48.35</b>        |
| 802.11a | 52      | 5260            | B     | 6                | 16.44                | <b>44.09</b>        | 16.64                | <b>46.17</b>        |
| 802.11a | 56      | 5280            | B     | 6                | 16.34                | <b>43.09</b>        | 16.54                | <b>45.12</b>        |
| 802.11a | 64      | 5320            | B     | 6                | 16.32                | <b>42.89</b>        | 16.54                | <b>45.12</b>        |
|         |         |                 |       |                  |                      |                     |                      |                     |
| 802.11n | 36      | 5180            | A     | HT0              | 16.51                | <b>44.81</b>        | 16.74                | <b>47.25</b>        |
| 802.11n | 40      | 5200            | A     | HT0              | 16.55                | <b>45.22</b>        | 16.74                | <b>47.25</b>        |
| 802.11n | 48      | 5240            | A     | HT0              | 16.58                | <b>45.54</b>        | 16.84                | <b>48.35</b>        |
| 802.11n | 52      | 5260            | A     | HT0              | 16.59                | <b>45.64</b>        | 16.84                | <b>48.35</b>        |
| 802.11n | 56      | 5280            | A     | HT0              | 16.37                | <b>43.39</b>        | 16.54                | <b>45.12</b>        |
| 802.11n | 64      | 5320            | A     | HT0              | 16.43                | <b>43.99</b>        | 16.64                | <b>46.17</b>        |
| 802.11n | 36      | 5180            | B     | HT0              | 16.45                | <b>44.19</b>        | 16.64                | <b>46.17</b>        |
| 802.11n | 40      | 5200            | B     | HT0              | 16.39                | <b>43.59</b>        | 16.54                | <b>45.12</b>        |
| 802.11n | 48      | 5240            | B     | HT0              | 16.53                | <b>45.02</b>        | 16.84                | <b>48.35</b>        |
| 802.11n | 52      | 5260            | B     | HT0              | 16.39                | <b>43.59</b>        | 16.54                | <b>45.12</b>        |
| 802.11n | 56      | 5280            | B     | HT0              | 16.59                | <b>45.64</b>        | 16.84                | <b>48.35</b>        |
| 802.11n | 64      | 5320            | B     | HT0              | 16.56                | <b>45.33</b>        | 16.84                | <b>48.35</b>        |
|         |         |                 |       |                  |                      |                     |                      |                     |
| 802.11a | 100     | 5500            | A     | 6                | 16.35                | <b>43.19</b>        | 16.54                | <b>45.12</b>        |
| 802.11a | 120     | 5600            | A     | 6                | 16.69                | <b>46.71</b>        | 16.84                | <b>48.35</b>        |
| 802.11a | 140     | 5700            | A     | 6                | 16.43                | <b>43.99</b>        | 16.64                | <b>46.17</b>        |
| 802.11a | 100     | 5500            | B     | 6                | 16.55                | <b>45.22</b>        | 16.74                | <b>47.25</b>        |
| 802.11a | 120     | 5600            | B     | 6                | 16.56                | <b>45.33</b>        | 16.74                | <b>47.25</b>        |
| 802.11a | 140     | 5700            | B     | 6                | 16.63                | <b>46.06</b>        | 16.84                | <b>48.35</b>        |
|         |         |                 |       |                  |                      |                     |                      |                     |
| 802.11n | 100     | 5500            | A     | HT0              | 16.63                | <b>46.06</b>        | 16.84                | <b>48.35</b>        |
| 802.11n | 120     | 5600            | A     | HT0              | 16.35                | <b>43.19</b>        | 16.54                | <b>45.12</b>        |
| 802.11n | 140     | 5700            | A     | HT0              | 16.63                | <b>46.06</b>        | 16.74                | <b>47.25</b>        |
| 802.11n | 100     | 5500            | B     | HT0              | 16.63                | <b>46.06</b>        | 16.94                | <b>49.47</b>        |
| 802.11n | 120     | 5600            | B     | HT0              | 16.52                | <b>44.91</b>        | 16.74                | <b>47.25</b>        |
| 802.11n | 140     | 5700            | B     | HT0              | 16.51                | <b>44.81</b>        | 16.74                | <b>47.25</b>        |

\*NOTE: The Average power is measured conducted, using power meter with average power sensor.

\*\*NOTE: The output power is measured conducted, using spectrum analyzer.



Maximum Conducted Output Power (Continued)

| Mode            | Channel | Frequency (MHz) | Chain | Data Rate (Mbps) | Average Power* (dBm) | Average Power* (mW) | Output Power** (dBm) | Output Power** (mW) |
|-----------------|---------|-----------------|-------|------------------|----------------------|---------------------|----------------------|---------------------|
| 802.11n (40MHz) | 38(F)   | 5190            | A     | HT0              | 16.66                | <b>46.32</b>        | 16.89                | <b>48.84</b>        |
| 802.11n (40MHz) | 46(F)   | 5230            | A     | HT0              | 16.40                | <b>43.63</b>        | 16.69                | <b>46.64</b>        |
| 802.11n (40MHz) | 54(F)   | 5270            | A     | HT0              | 16.42                | <b>43.83</b>        | 16.69                | <b>46.64</b>        |
| 802.11n (40MHz) | 62(F)   | 5310            | A     | HT0              | 16.55                | <b>45.16</b>        | 16.79                | <b>47.73</b>        |
| 802.11n (40MHz) | 38(F)   | 5190            | B     | HT0              | 16.39                | <b>43.53</b>        | 16.79                | <b>47.73</b>        |
| 802.11n (40MHz) | 46(F)   | 5230            | B     | HT0              | 16.51                | <b>44.75</b>        | 16.89                | <b>48.84</b>        |
| 802.11n (40MHz) | 54(F)   | 5270            | B     | HT0              | 16.58                | <b>45.48</b>        | 16.89                | <b>48.84</b>        |
| 802.11n (40MHz) | 62(F)   | 5310            | B     | HT0              | 16.64                | <b>46.11</b>        | 16.89                | <b>48.84</b>        |
|                 |         |                 |       |                  |                      |                     |                      |                     |
| 802.11n (40MHz) | 102(F)  | 5510            | A     | HT0              | 16.60                | <b>45.69</b>        | 16.79                | <b>47.73</b>        |
| 802.11n (40MHz) | 118(F)  | 5590            | A     | HT0              | 16.50                | <b>44.65</b>        | 16.69                | <b>46.64</b>        |
| 802.11n (40MHz) | 134(F)  | 5670            | A     | HT0              | 16.34                | <b>43.03</b>        | 16.59                | <b>45.58</b>        |
| 802.11n (40MHz) | 102(F)  | 5510            | B     | HT0              | 16.63                | <b>46.00</b>        | 16.89                | <b>48.84</b>        |
| 802.11n (40MHz) | 118(F)  | 5590            | B     | HT0              | 16.35                | <b>43.13</b>        | 16.59                | <b>45.58</b>        |
| 802.11n (40MHz) | 134(F)  | 5670            | B     | HT0              | 16.44                | <b>44.03</b>        | 16.69                | <b>46.64</b>        |

**Dual Chain AB Aggregate Power**

| Mode            | Channel | Frequency (MHz) | Chain | Data Rate (Mbps) | Average Power* (dBm) | Average Power* (mW) | Output Power** (dBm) | Output Power** (mW) |
|-----------------|---------|-----------------|-------|------------------|----------------------|---------------------|----------------------|---------------------|
| 802.11n (20MHz) | 36      | 5180            | ABC   | HT16             | 16.57                | <b>45.40</b>        | 16.66                | <b>46.29</b>        |
| 802.11n (20MHz) | 40      | 5200            | ABC   | HT16             | 16.72                | <b>46.95</b>        | 16.86                | <b>48.51</b>        |
| 802.11n (20MHz) | 48      | 5240            | ABC   | HT16             | 16.92                | <b>49.19</b>        | 17.06                | <b>50.76</b>        |
| 802.11n (20MHz) | 52      | 5260            | ABC   | HT16             | 16.77                | <b>47.52</b>        | 16.85                | <b>48.46</b>        |
| 802.11n (20MHz) | 56      | 5280            | ABC   | HT16             | 16.77                | <b>47.52</b>        | 16.85                | <b>48.46</b>        |
| 802.11n (20MHz) | 64      | 5320            | ABC   | HT16             | 16.66                | <b>46.36</b>        | 16.81                | <b>47.94</b>        |
|                 |         |                 |       |                  |                      |                     |                      |                     |
| 802.11n (40MHz) | 38(F)   | 5190            | ABC   | HT16             | 16.56                | <b>45.33</b>        | 16.75                | <b>47.30</b>        |
| 802.11n (40MHz) | 46(F)   | 5230            | ABC   | HT16             | 16.61                | <b>45.84</b>        | 16.75                | <b>47.32</b>        |
| 802.11n (40MHz) | 54(F)   | 5270            | ABC   | HT16             | 16.78                | <b>47.64</b>        | 16.90                | <b>48.97</b>        |
| 802.11n (40MHz) | 62(F)   | 5310            | ABC   | HT16             | 16.85                | <b>48.42</b>        | 16.90                | <b>48.97</b>        |
|                 |         |                 |       |                  |                      |                     |                      |                     |
| 802.11n (20MHz) | 100     | 5500            | ABC   | HT16             | 16.74                | <b>47.19</b>        | 16.85                | <b>48.46</b>        |
| 802.11n (20MHz) | 120     | 5600            | ABC   | HT16             | 16.58                | <b>45.46</b>        | 16.71                | <b>46.84</b>        |
| 802.11n (20MHz) | 140     | 5700            | ABC   | HT16             | 16.67                | <b>46.50</b>        | 16.81                | <b>47.94</b>        |
|                 |         |                 |       |                  |                      |                     |                      |                     |
| 802.11n (40MHz) | 102(F)  | 5510            | ABC   | HT16             | 16.56                | <b>45.32</b>        | 16.70                | <b>46.75</b>        |
| 802.11n (40MHz) | 118(F)  | 5590            | ABC   | HT16             | 16.59                | <b>45.64</b>        | 16.75                | <b>47.30</b>        |
| 802.11n (40MHz) | 134(F)  | 5670            | ABC   | HT16             | 16.50                | <b>44.70</b>        | 16.70                | <b>46.75</b>        |

\*NOTE: The Average power is measured conducted, using power meter with average power sensor.

\*\*NOTE: The output power is measured conducted, using spectrum analyzer.

(F) = Fat Channel

**CONDCUTED BAND EDGE EMISSIONS TEST RESULTS**

|                       |                                                                                    |                        |              |
|-----------------------|------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                  | <b>DATE:</b>           | 07/22/09     |
| <b>EUT:</b>           | Intel® Centrino® Ultimate-N 6200                                                   | <b>PROJECT NUMBER:</b> | INTEL-090601 |
| <b>MODEL NUMBER:</b>  | 622ANHMW                                                                           | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 0015005A3C7C                                                                       | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in an extender board connected to the host laptop's mini PCI slot | <b>TEMPERATURE:</b>    | 23 deg. C    |
|                       |                                                                                    | <b>HUMIDITY:</b>       | 51% RH       |
|                       |                                                                                    | <b>TIME:</b>           | 10:00 AM     |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description:</b> | For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band. |
| <b>Results:</b>     | See Data Sheet                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Note:</b>        | Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. <ul style="list-style-type: none"> <li>• 120VAC / 60 Hz.</li> </ul>                                                                                                                                                                                                                                                                   |

| <b>Unwanted Spurious Emissions Limits</b> |                                                                             |
|-------------------------------------------|-----------------------------------------------------------------------------|
| <b>Frequency (MHz)</b>                    | <b>Field Strength (dBm/Hz)<br/>(Emissions outside the restricted bands)</b> |
| 5250-5350                                 | EIRP < -27dBm/Hz (68.3dBuV/m)                                               |

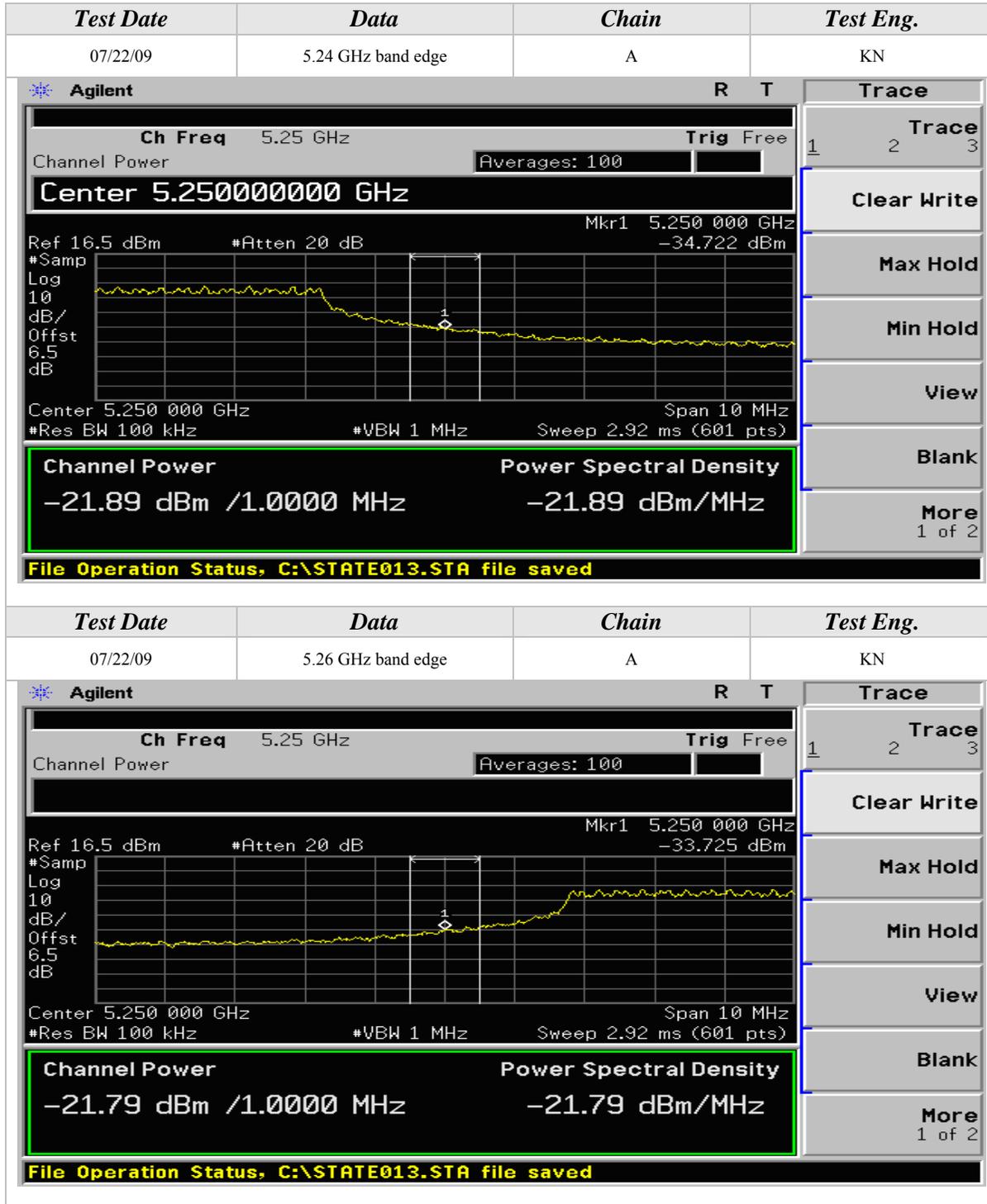


Conducted Band Edge Emissions Test Results (Continued)

| <b>CONDCUTED BAND EDGE EMISSIONS TEST RESULTS</b> |                 |                                          |                           |                                    |                         |                         |                 |
|---------------------------------------------------|-----------------|------------------------------------------|---------------------------|------------------------------------|-------------------------|-------------------------|-----------------|
| <i>Freq.(MHz)</i>                                 | <i>TX Chain</i> | <i>Power Spec Den. Reading (dBm/MHz)</i> | <i>Antenna Gain (dBi)</i> | <i>Corrected Reading (dBm/MHz)</i> | <i>Limits (dBm/MHz)</i> | <i>Diff (dB) +=FAIL</i> | <i>Comments</i> |
| <b>802.11a</b>                                    |                 |                                          |                           |                                    |                         |                         |                 |
| 5250.00                                           | A               | -34.72                                   | 2.57                      | -32.15                             | -27.00                  | -5.15                   | Tx @ 5240 MHz   |
| 5250.00                                           | A               | -33.73                                   | 2.57                      | -31.16                             | -27.00                  | -4.16                   | Tx @ 5260 MHz   |
| 5250.00                                           | B               | -33.06                                   | 2.57                      | -30.49                             | -27.00                  | -3.49                   | Tx @ 5240 MHz   |
| 5250.00                                           | B               | -35.17                                   | 2.57                      | -32.60                             | -27.00                  | -5.60                   | Tx @ 5260 MHz   |
| <b>802.11n (20MHz Wide)</b>                       |                 |                                          |                           |                                    |                         |                         |                 |
| 5250.00                                           | A               | -32.51                                   | 2.57                      | -29.94                             | -27.00                  | -2.94                   | Tx @ 5240 MHz   |
| 5250.00                                           | A               | -33.67                                   | 2.57                      | -31.10                             | -27.00                  | -4.10                   | Tx @ 5260 MHz   |
| 5250.00                                           | B               | -33.73                                   | 2.57                      | -31.16                             | -27.00                  | -4.16                   | Tx @ 5240 MHz   |
| 5250.00                                           | B               | -33.25                                   | 2.57                      | -30.68                             | -27.00                  | -3.68                   | Tx @ 5260 MHz   |
| <b>802.11n (40MHz Wide)</b>                       |                 |                                          |                           |                                    |                         |                         |                 |
| 5250.00                                           | A               | -42.99                                   | 2.57                      | -40.42                             | -27.00                  | -13.42                  | Tx @ 5240 MHz   |
| 5250.00                                           | A               | -41.29                                   | 2.57                      | -38.72                             | -27.00                  | -11.72                  | Tx @ 5260 MHz   |
| 5250.00                                           | B               | -41.99                                   | 2.57                      | -39.42                             | -27.00                  | -12.42                  | Tx @ 5240 MHz   |
| 5250.00                                           | B               | -42.75                                   | 2.57                      | -40.18                             | -27.00                  | -13.18                  | Tx @ 5260 MHz   |

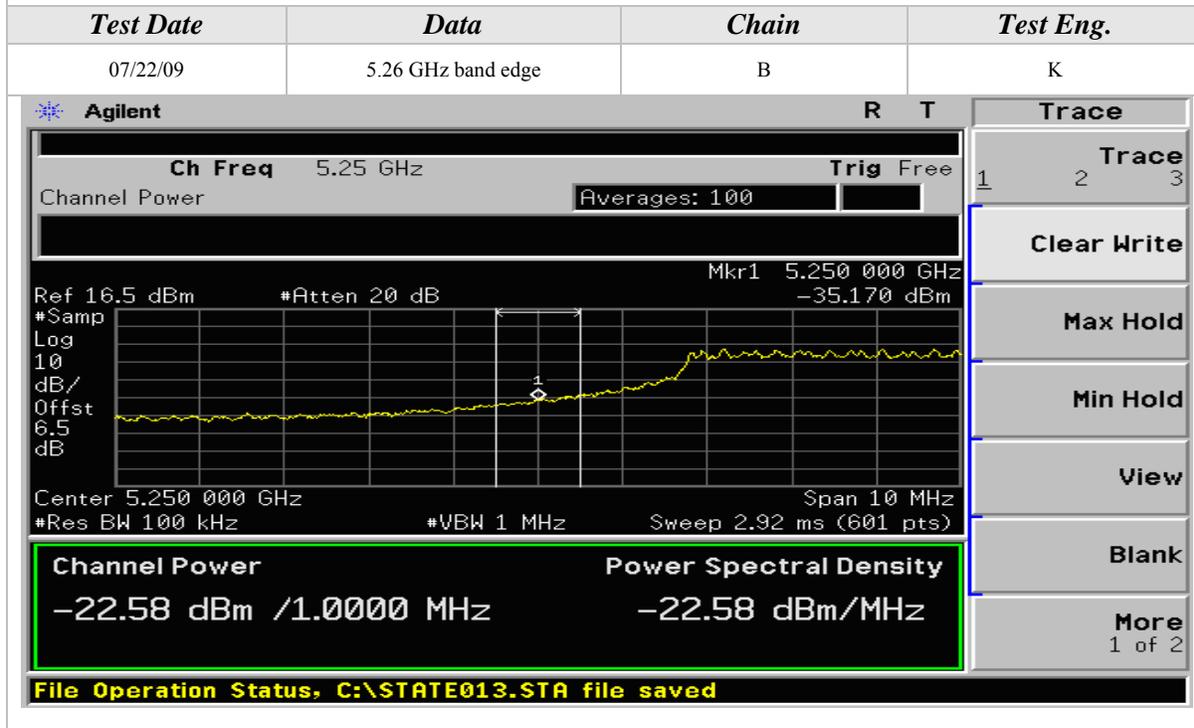
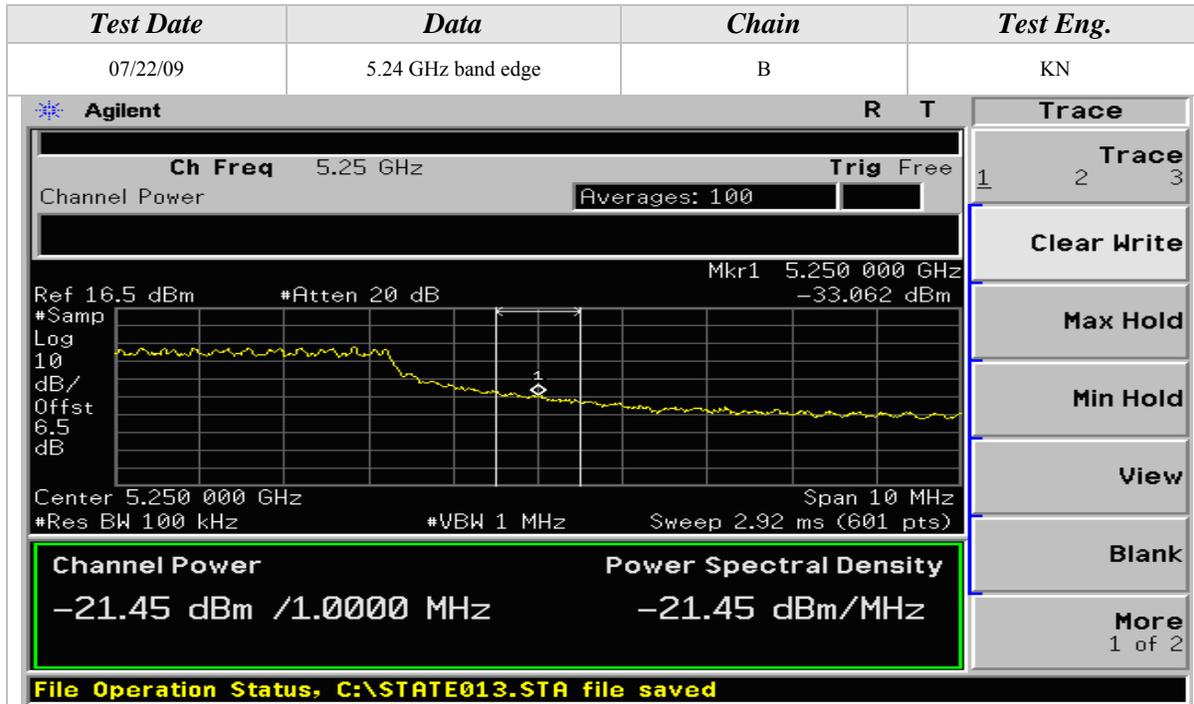
Conducted Band Edge Emissions Test Results (Continued)

802.11a Mode – Chain A



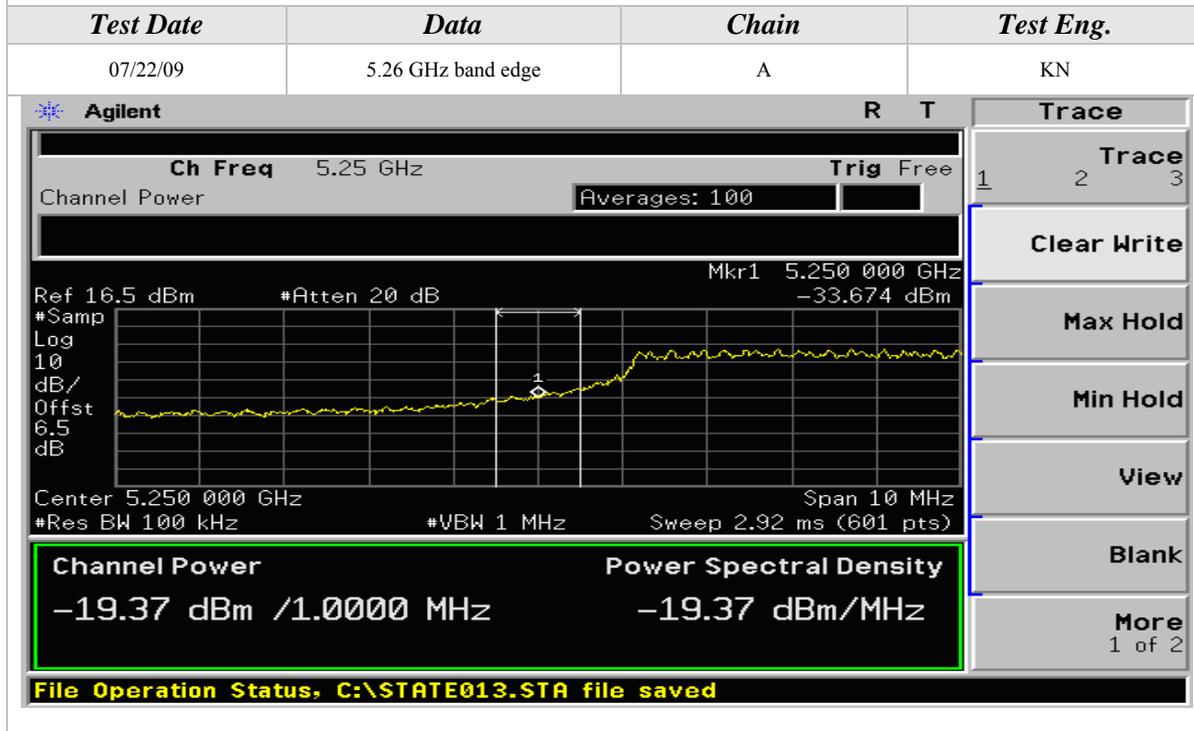
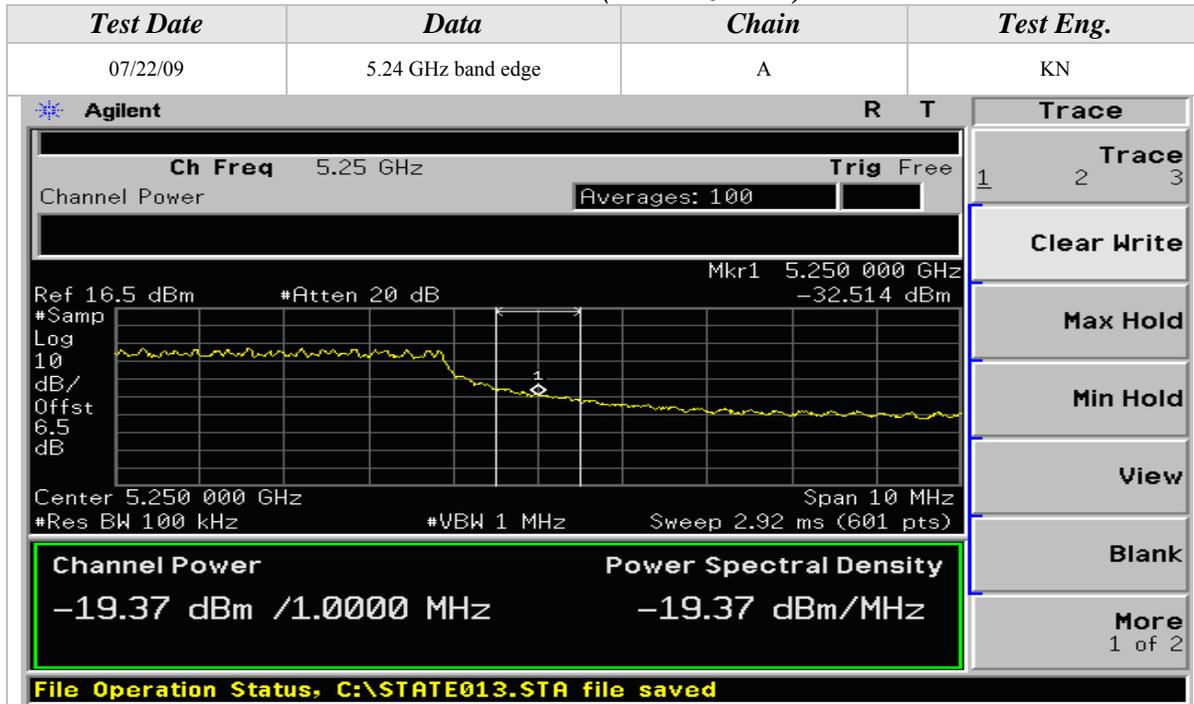
Conducted Band Edge Emissions Test Results (Continued)

802.11a Mode – Chain B



Conducted Band Edge Emissions Test Results (Continued)

802.11n Mode (20 MHz Wide)



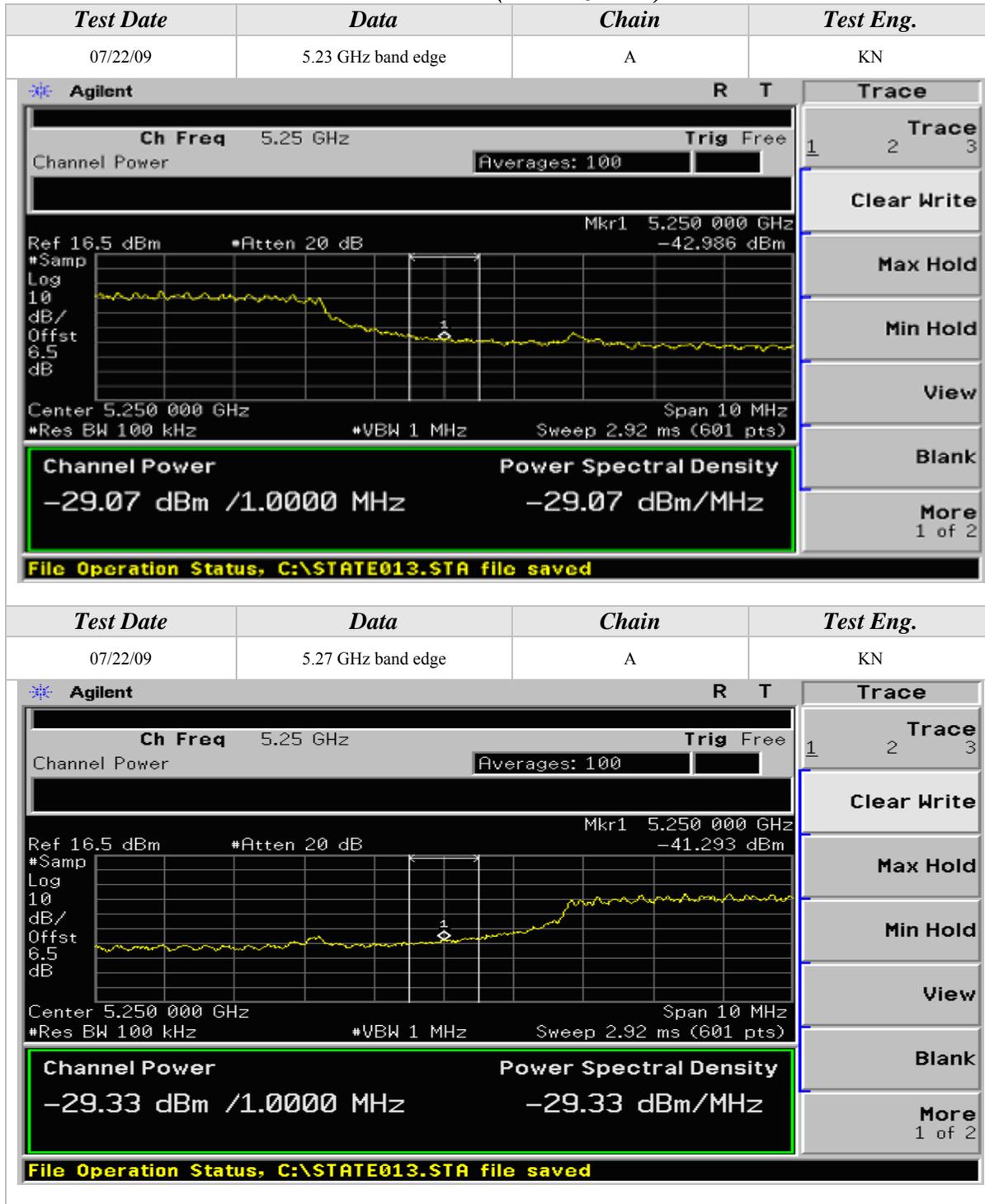
Conducted Band Edge Emissions Test Results (Continued)

802.11n Mode (20 MHz Wide)



Conducted Band Edge Emissions Test Results (Continued)

802.11n Mode (40 MHz Wide)



Conducted Band Edge Emissions Test Results (Continued)

802.11n Mode (40 MHz Wide)



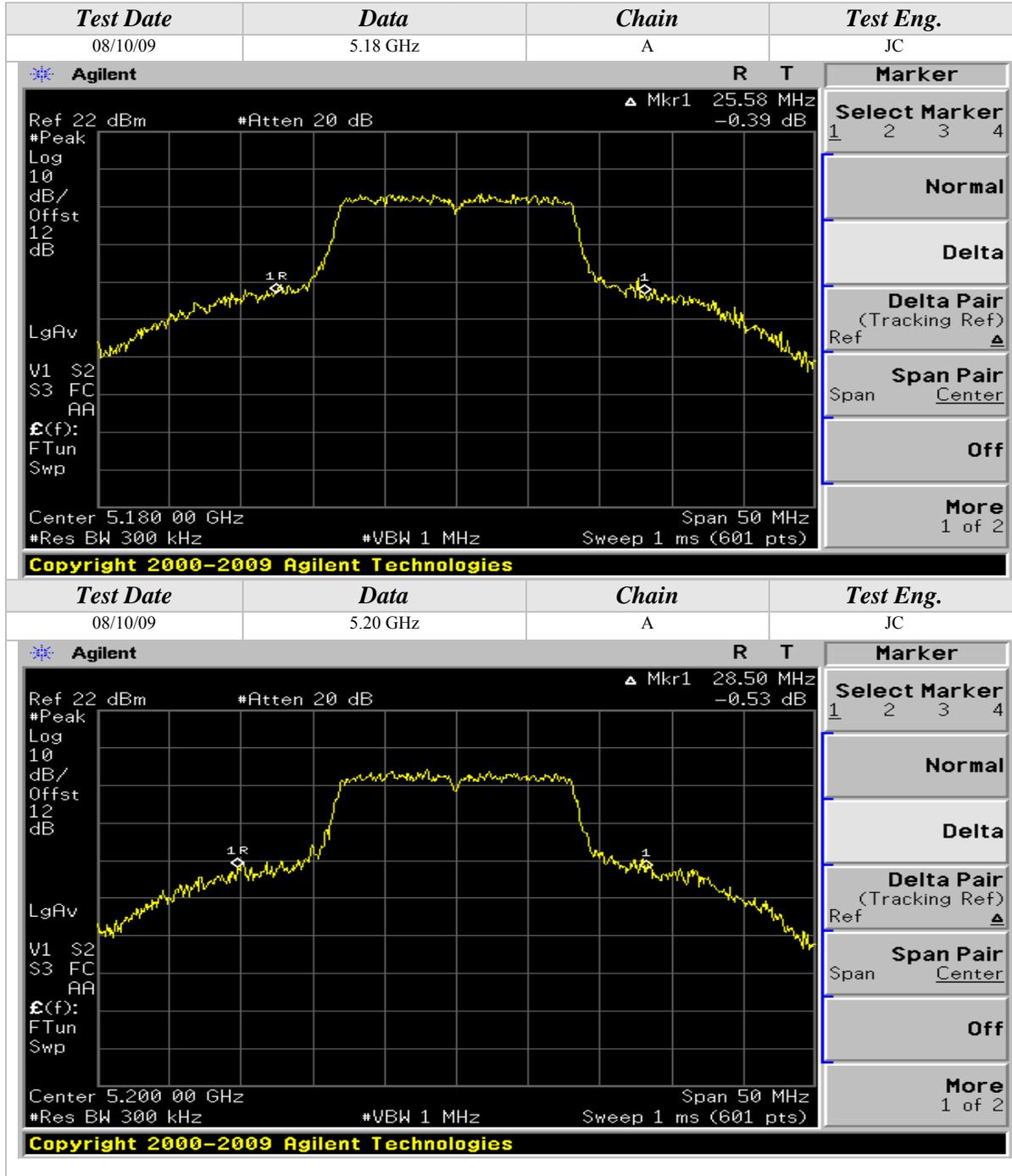
**26dB EMISSIONS BANDWIDTH**

|                       |                                                                                    |                        |              |
|-----------------------|------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                  | <b>DATE:</b>           | 08/10/09     |
| <b>EUT:</b>           | Intel WiFi Link 6200                                                               | <b>PROJECT NUMBER:</b> | INTEL-090601 |
| <b>MODEL NUMBER:</b>  | 622ANHMW                                                                           | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 0015005A70A4                                                                       | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in an extender board connected to the host laptop's mini PCI slot | <b>TEMPERATURE:</b>    | 25 deg. C    |
|                       |                                                                                    | <b>HUMIDITY:</b>       | 36% RH       |
|                       |                                                                                    | <b>TIME:</b>           | 1:50 PM      |

|                     |                                                                                                                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description:</b> | 26dB emissions bandwidth in MHz.                                                                                                                                                           |
| <b>Results:</b>     | See Data Sheet                                                                                                                                                                             |
| <b>Note:</b>        | Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. <ul style="list-style-type: none"><li>• 120VAC / 60 Hz.</li></ul> |

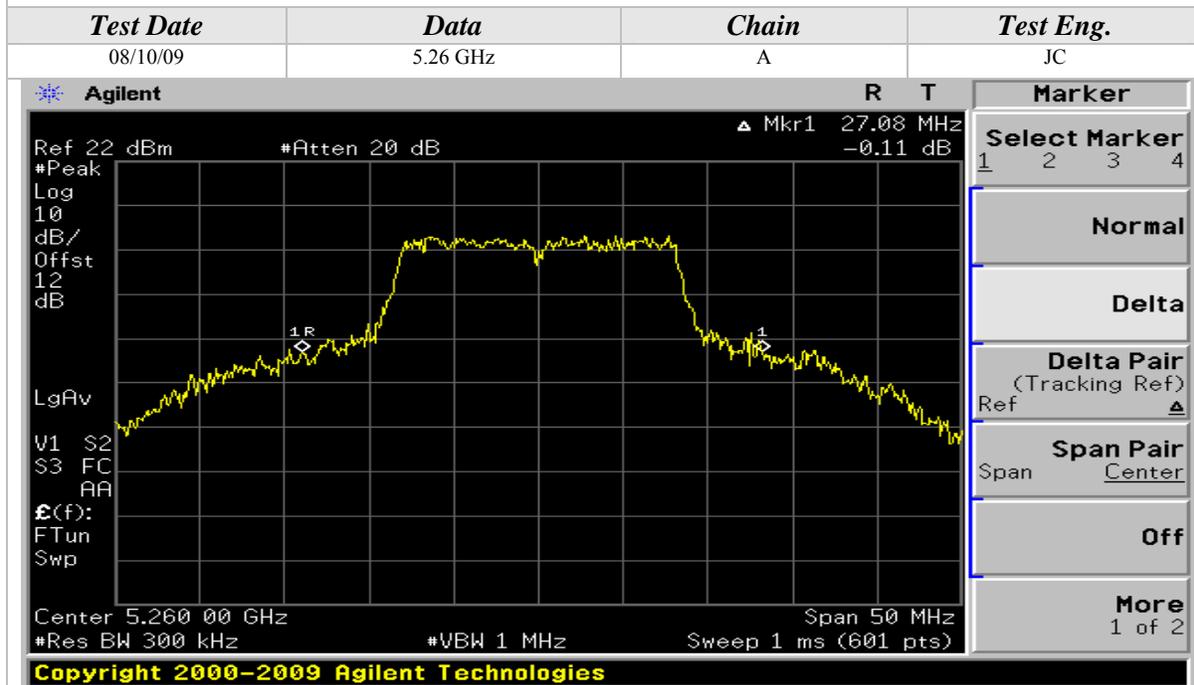
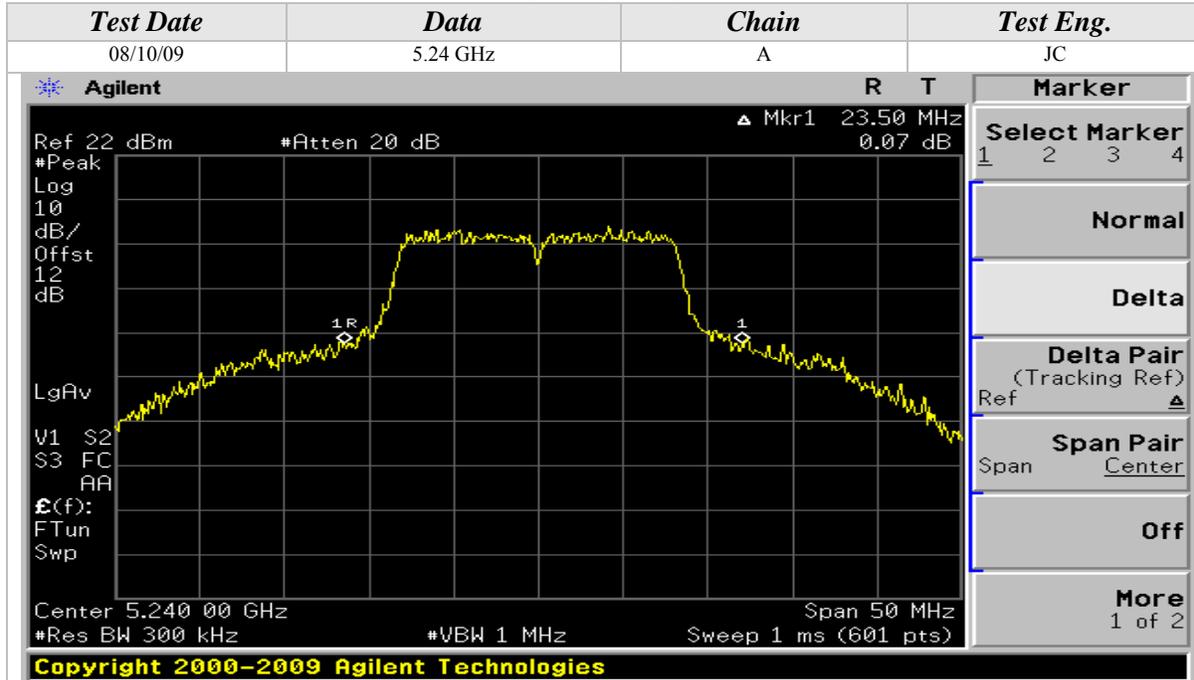
26dB Emissions Bandwidth (Continued)

802.11a Mode



26dB Emissions Bandwidth (Continued)

802.11a Mode



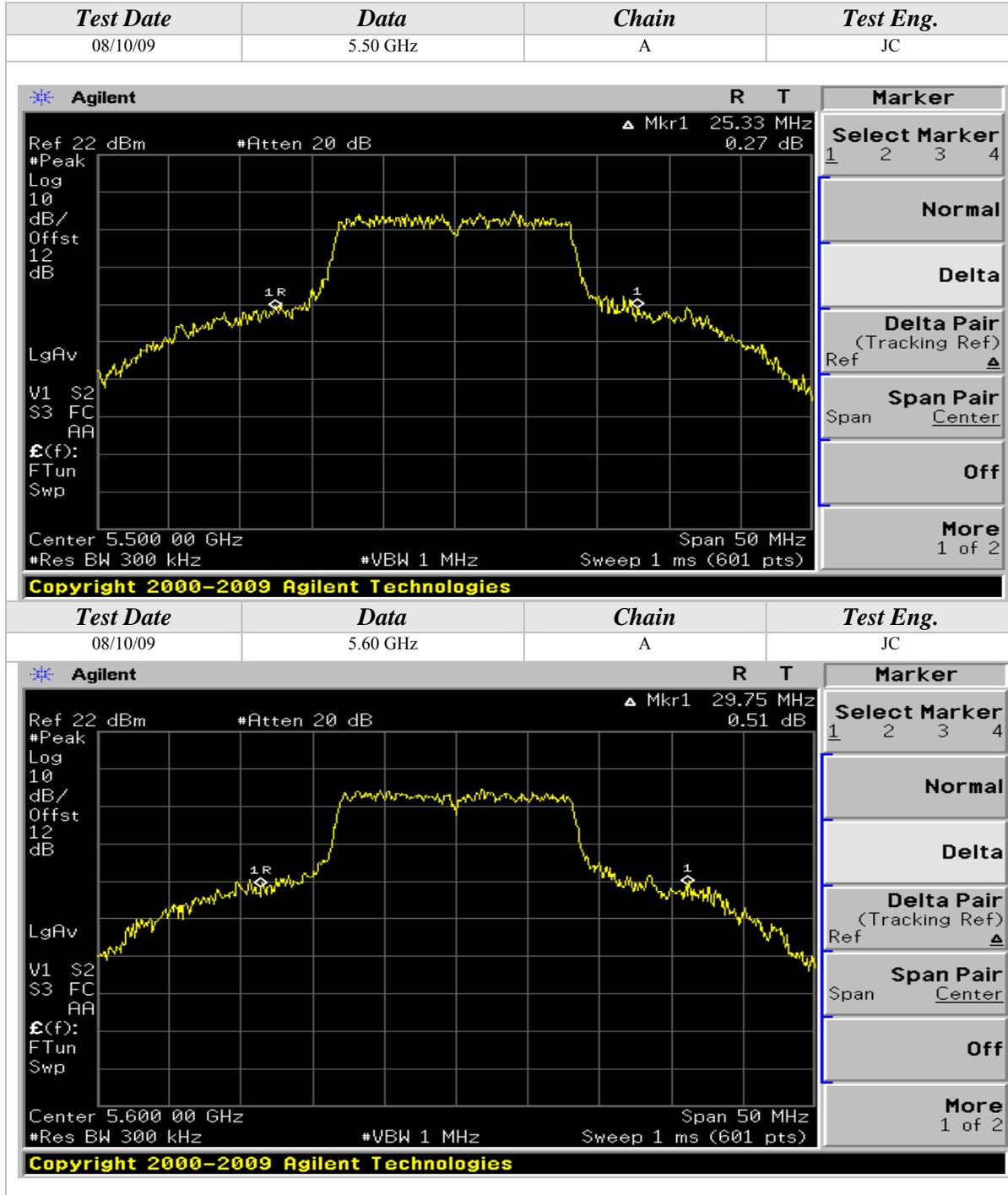
26dB Emissions Bandwidth (Continued)

802.11a Mode



26dB Emissions Bandwidth (Continued)

802.11a Mode



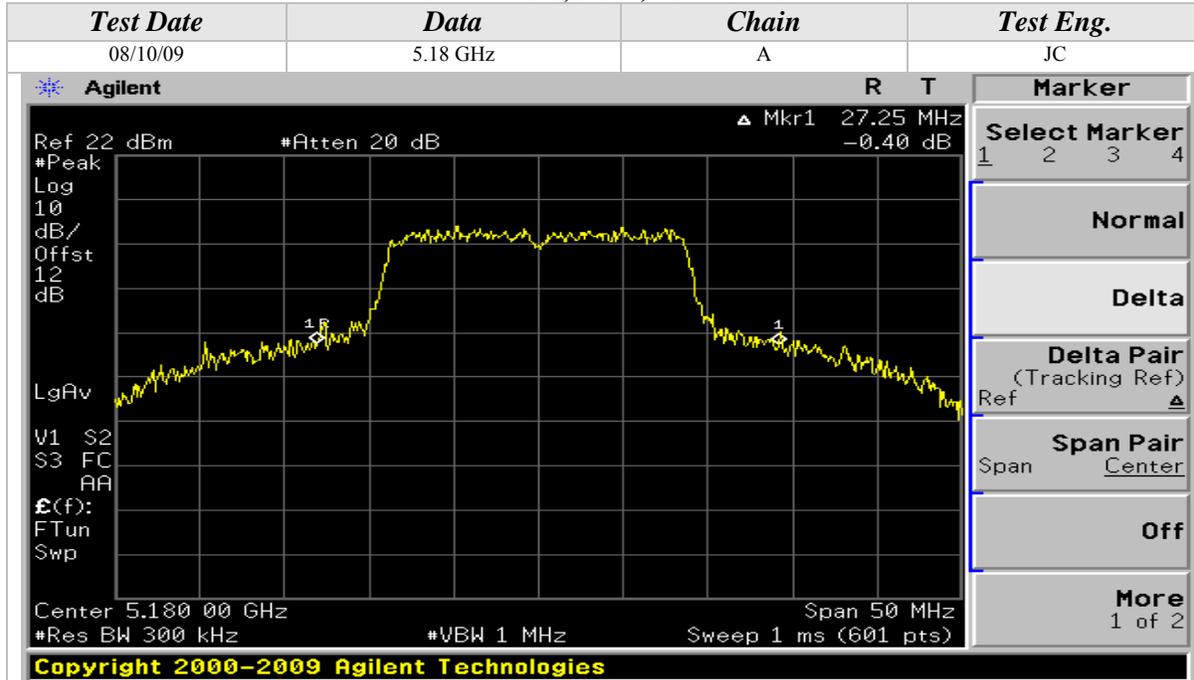
26dB Emissions Bandwidth (Continued)

802.11a Mode



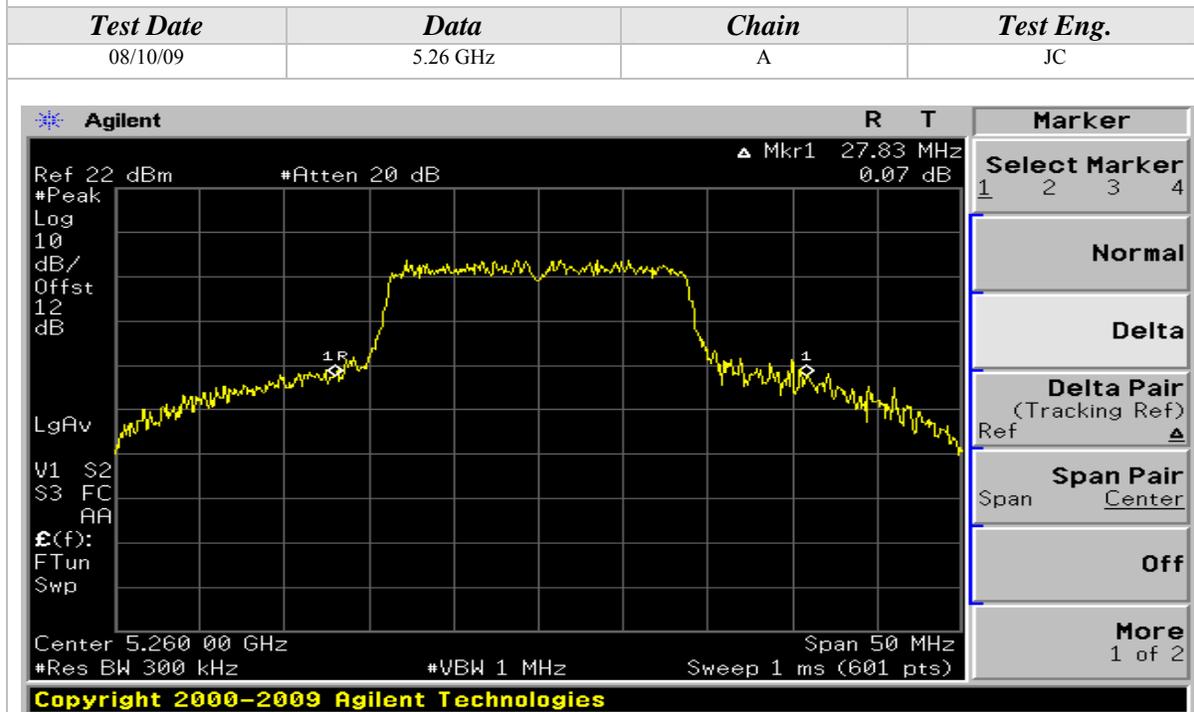
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 20MHz Wide



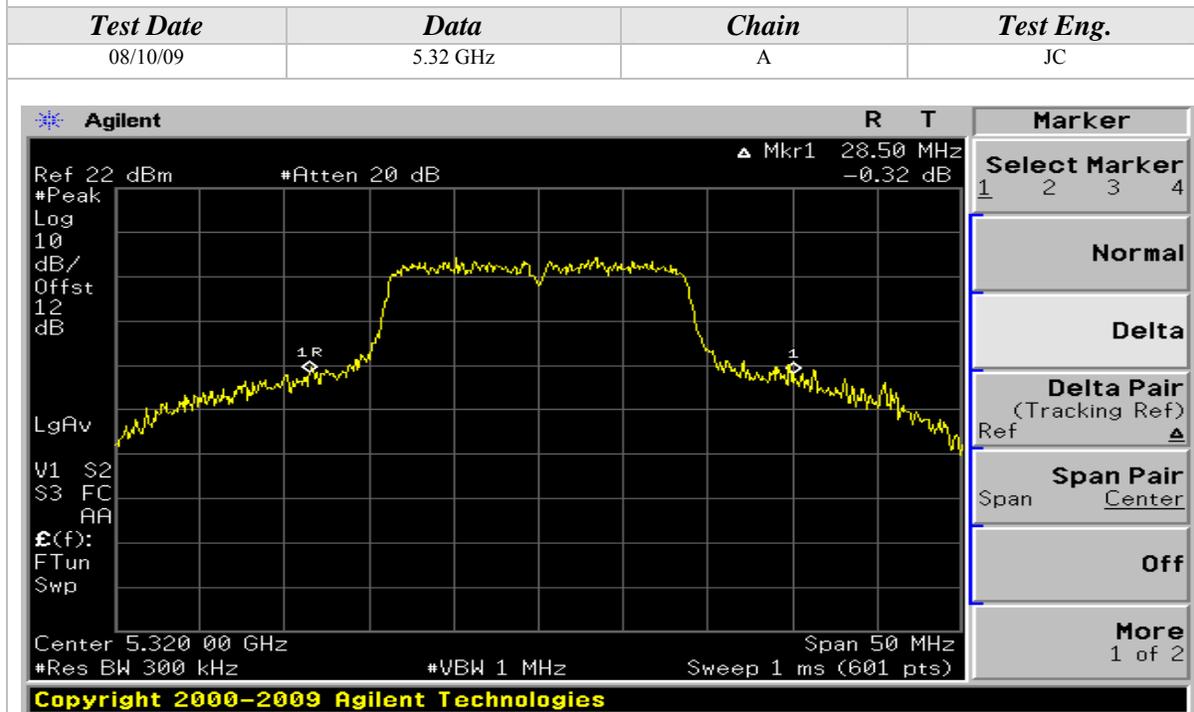
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 20MHz Wide



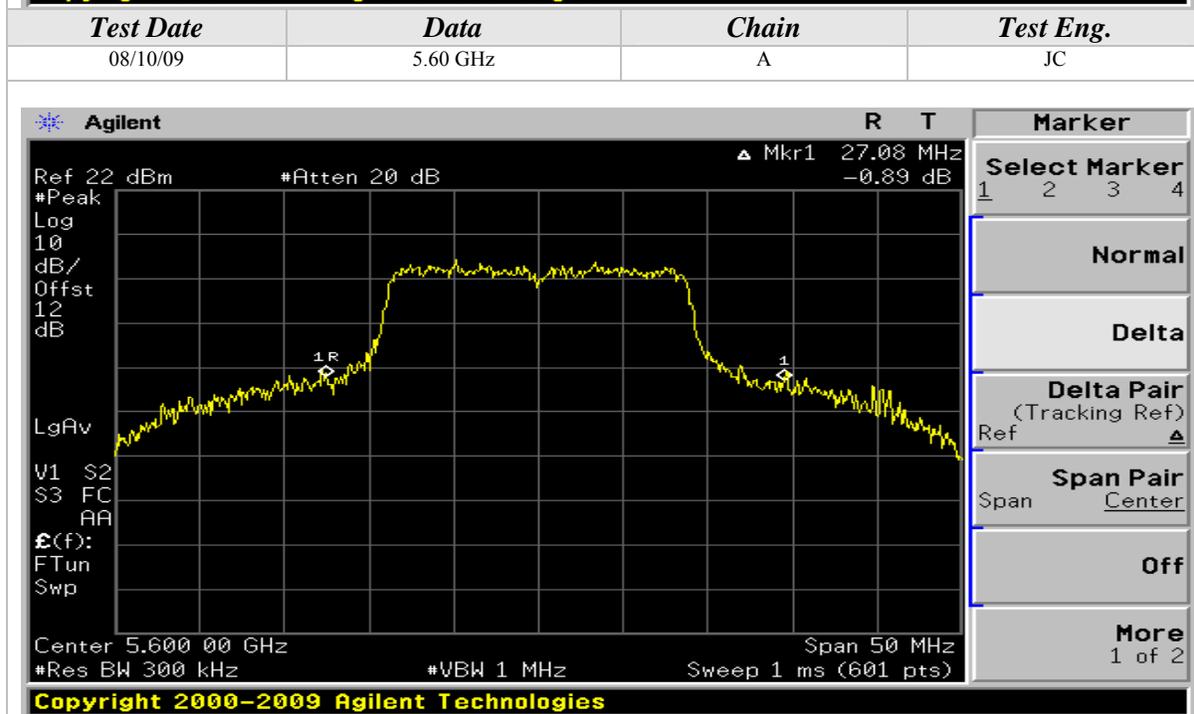
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 20MHz Wide



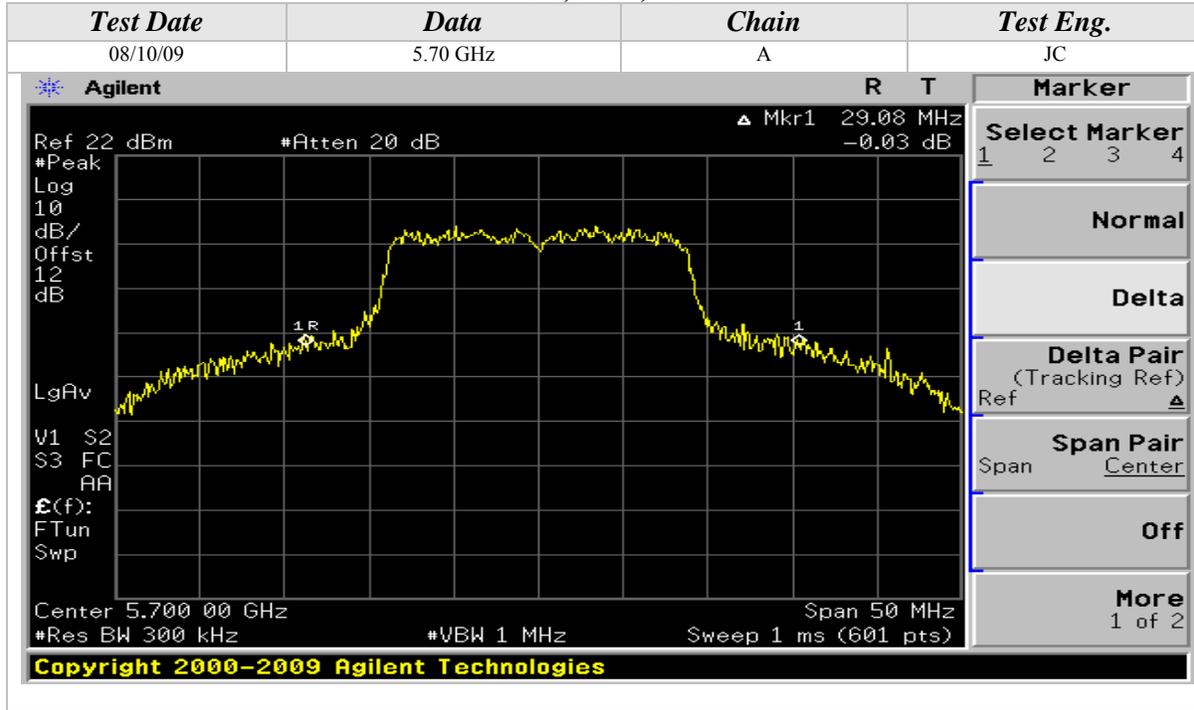
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 20MHz Wide



26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 20MHz Wide



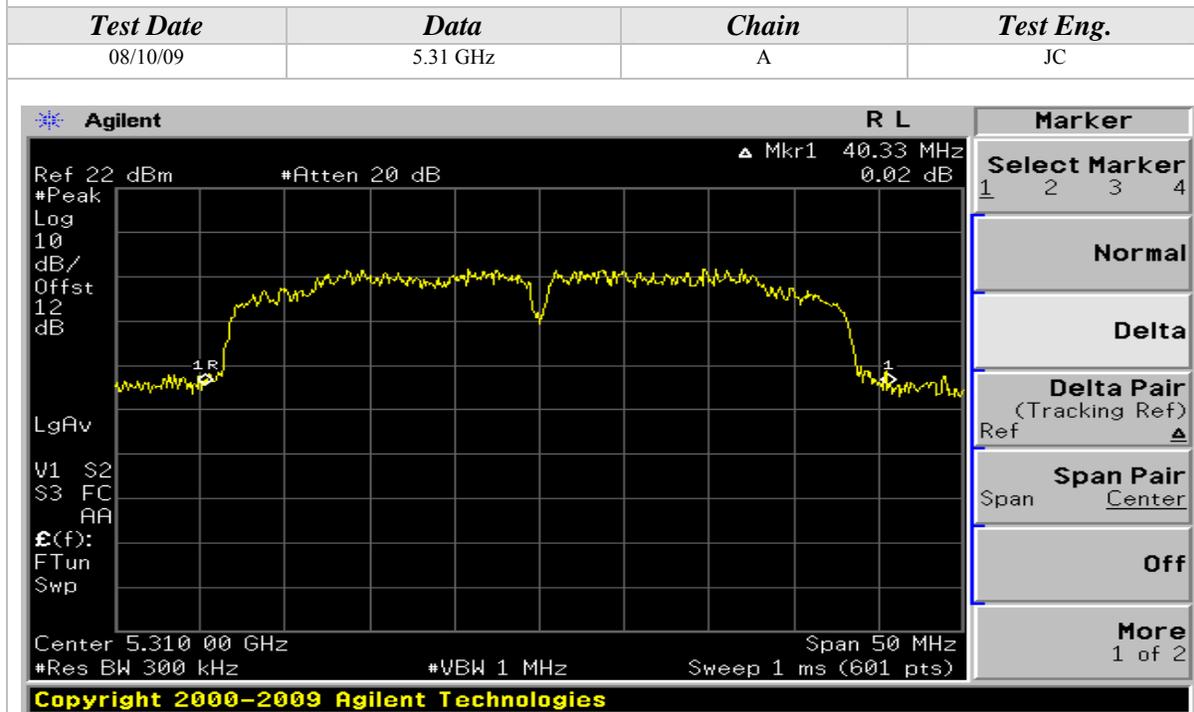
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 40MHz Wide



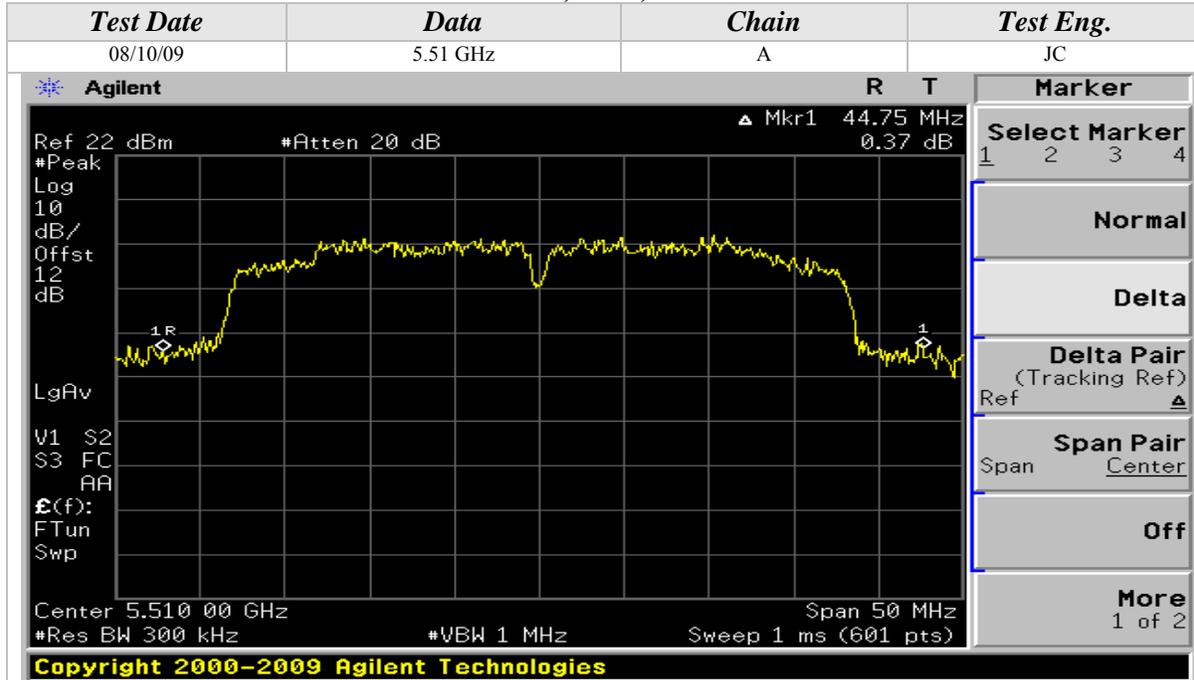
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 40MHz Wide



26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 40MHz Wide



26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 40MHz Wide



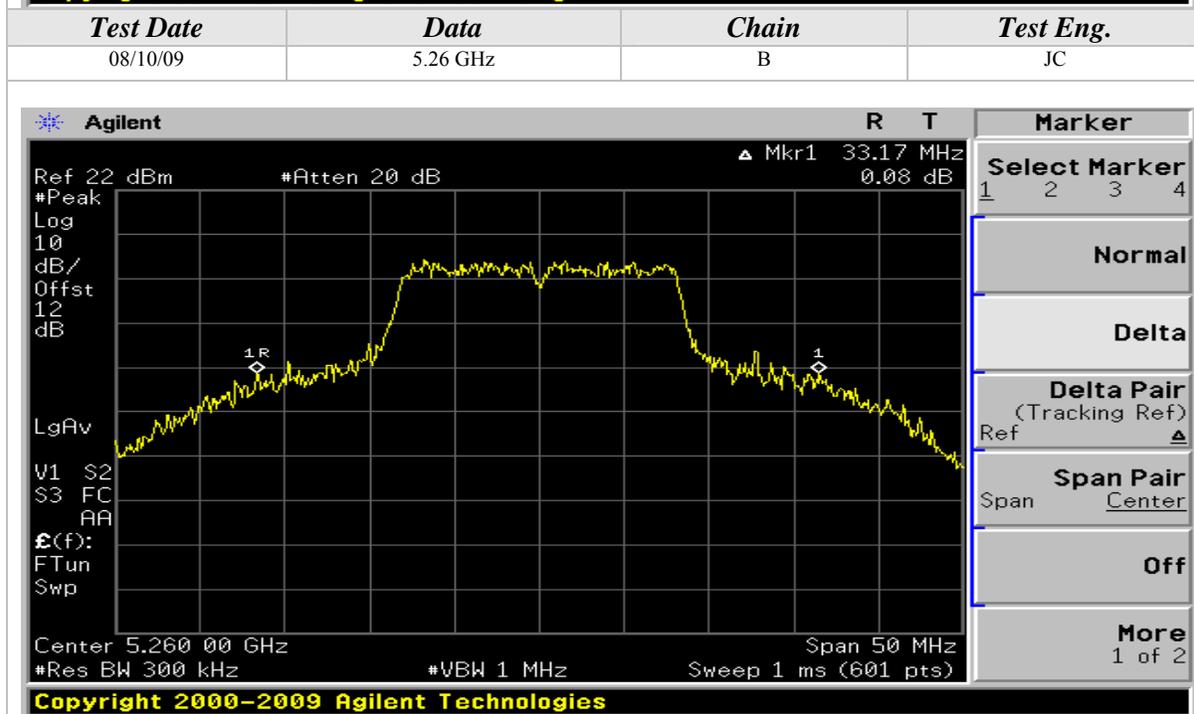
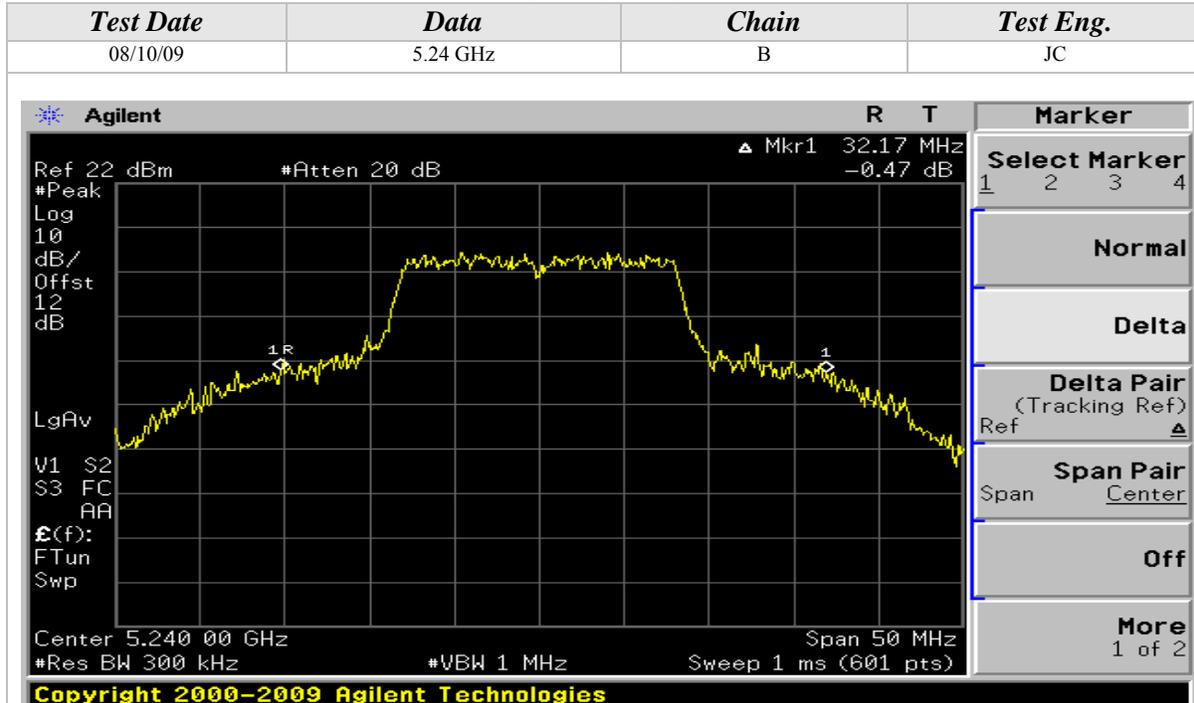
26dB Emissions Bandwidth (Continued)

802.11a Mode



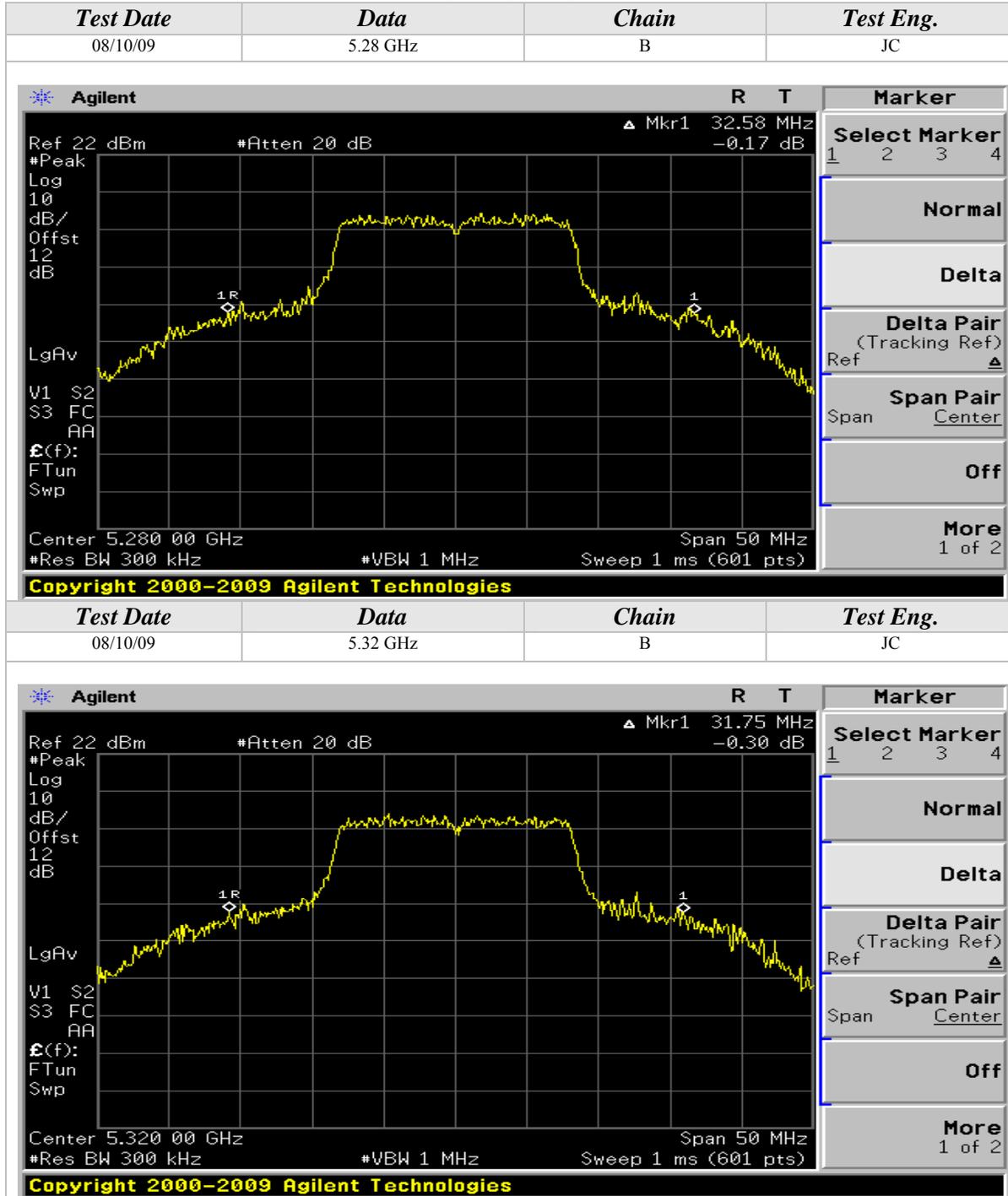
26dB Emissions Bandwidth (Continued)

802.11a Mode



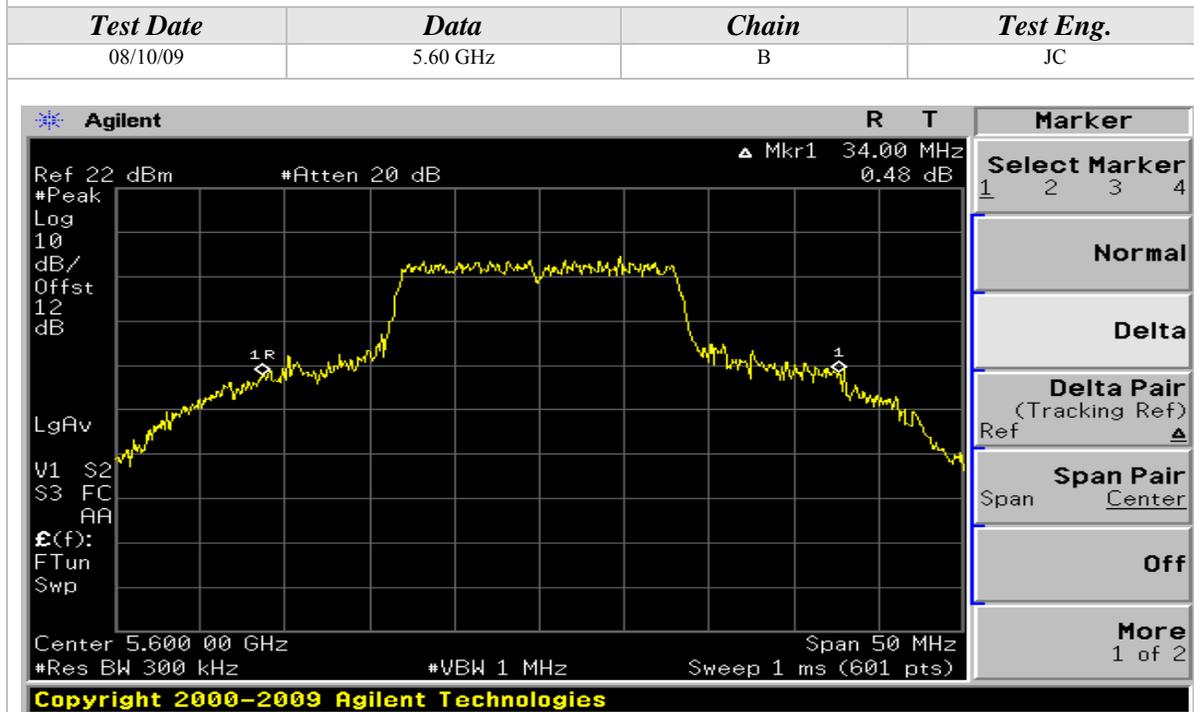
26dB Emissions Bandwidth (Continued)

802.11a Mode



26dB Emissions Bandwidth (Continued)

802.11a Mode



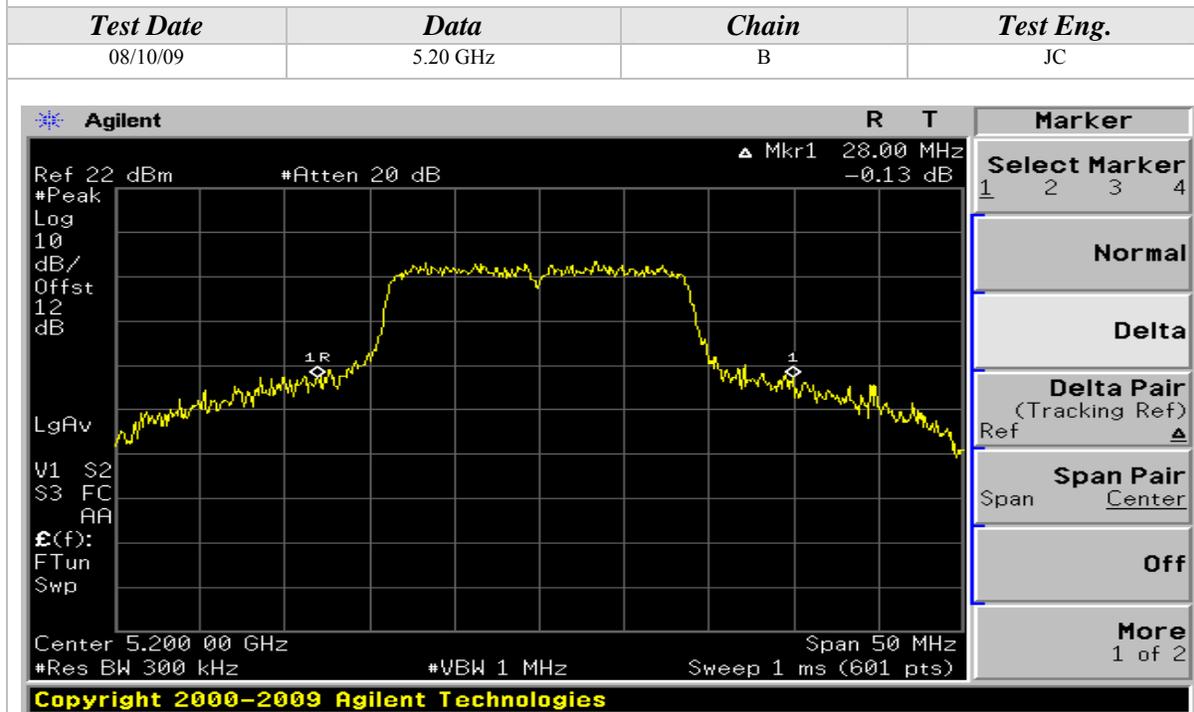
26dB Emissions Bandwidth (Continued)

802.11a Mode



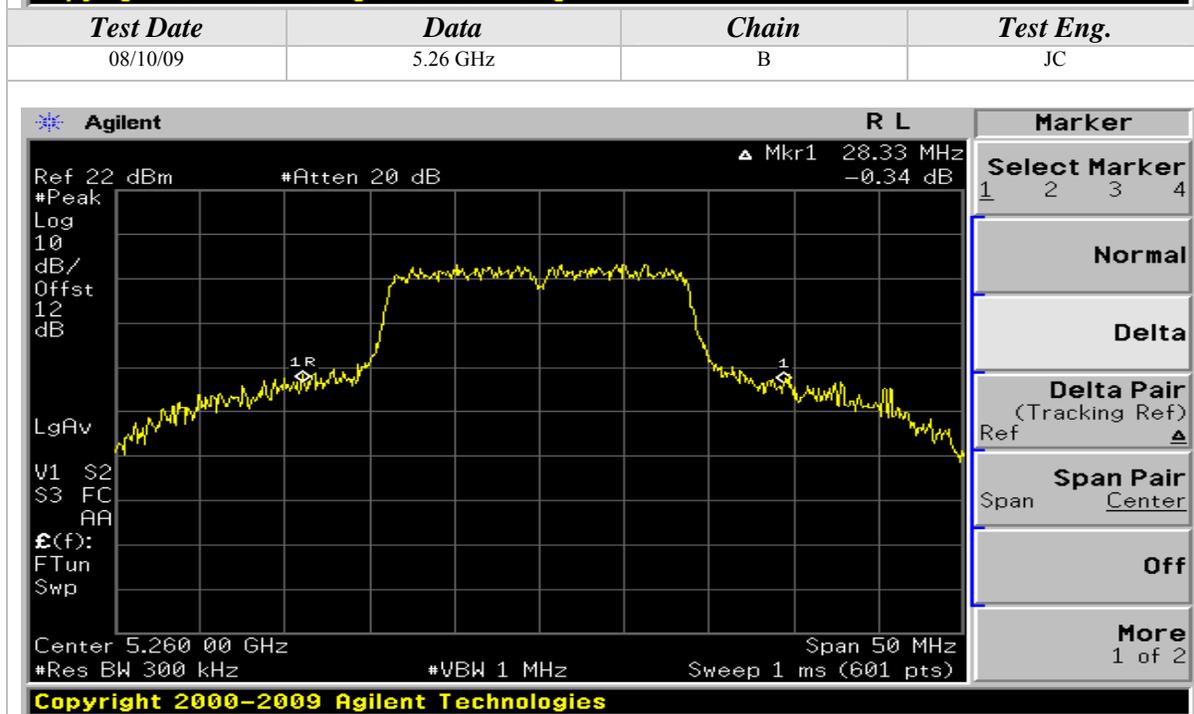
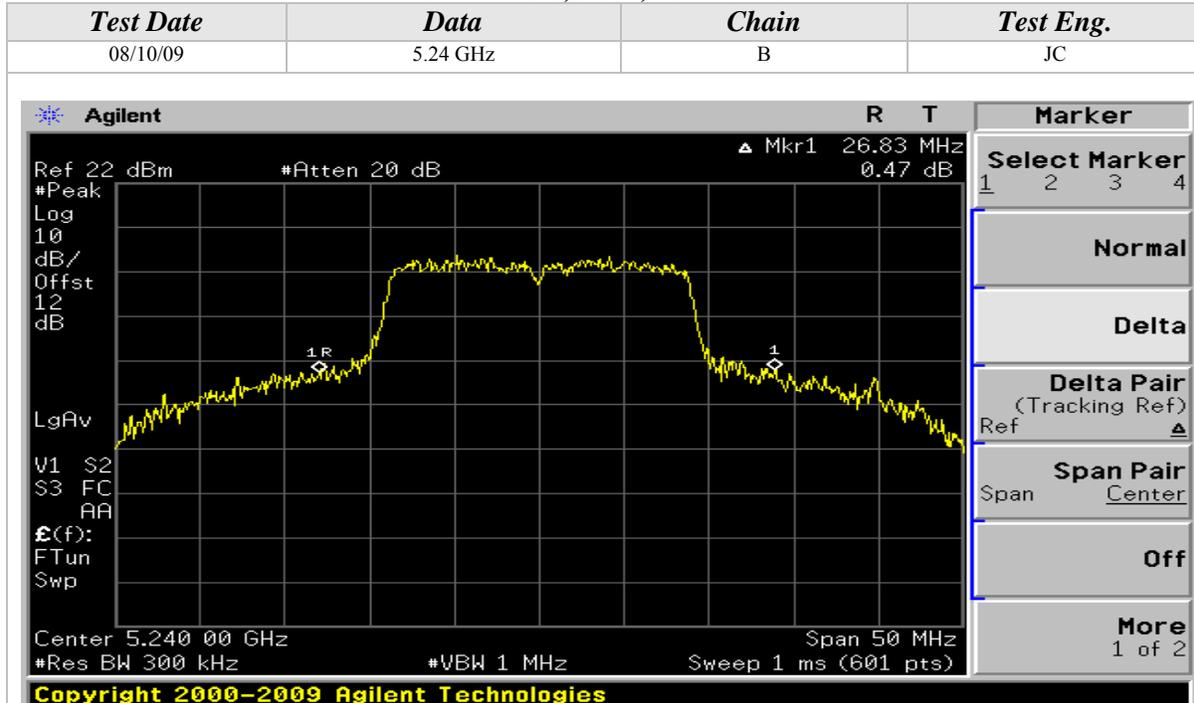
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 20MHz Wide



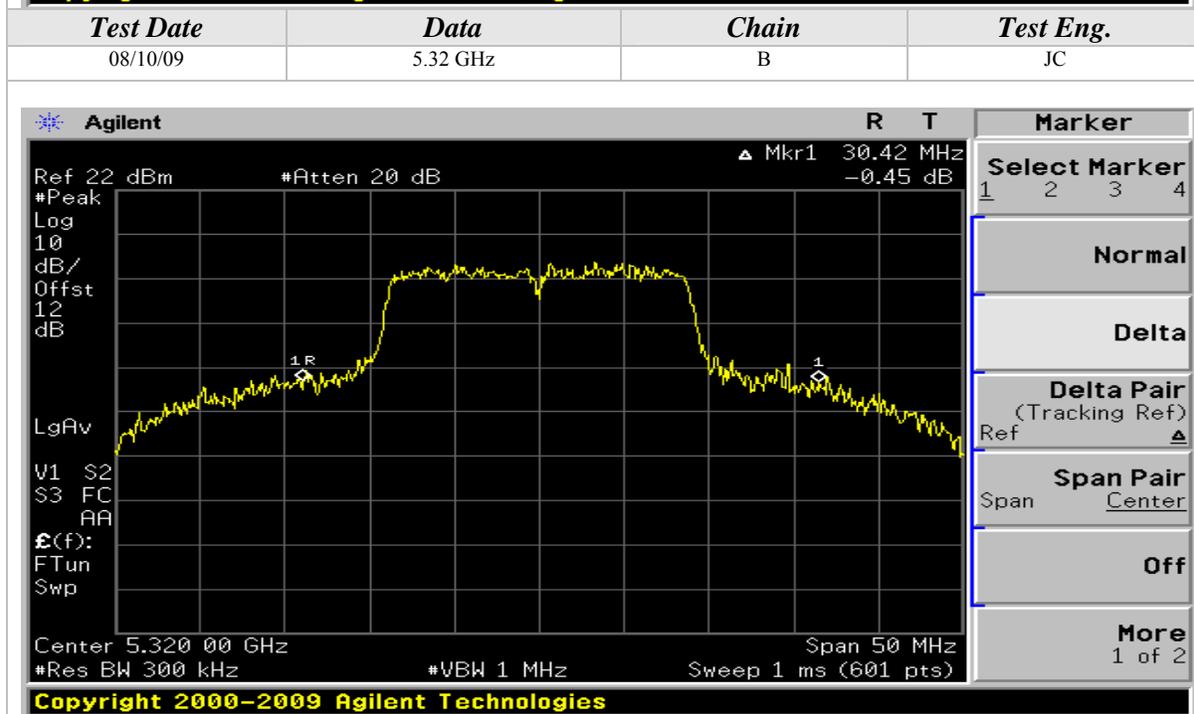
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 20MHz Wide



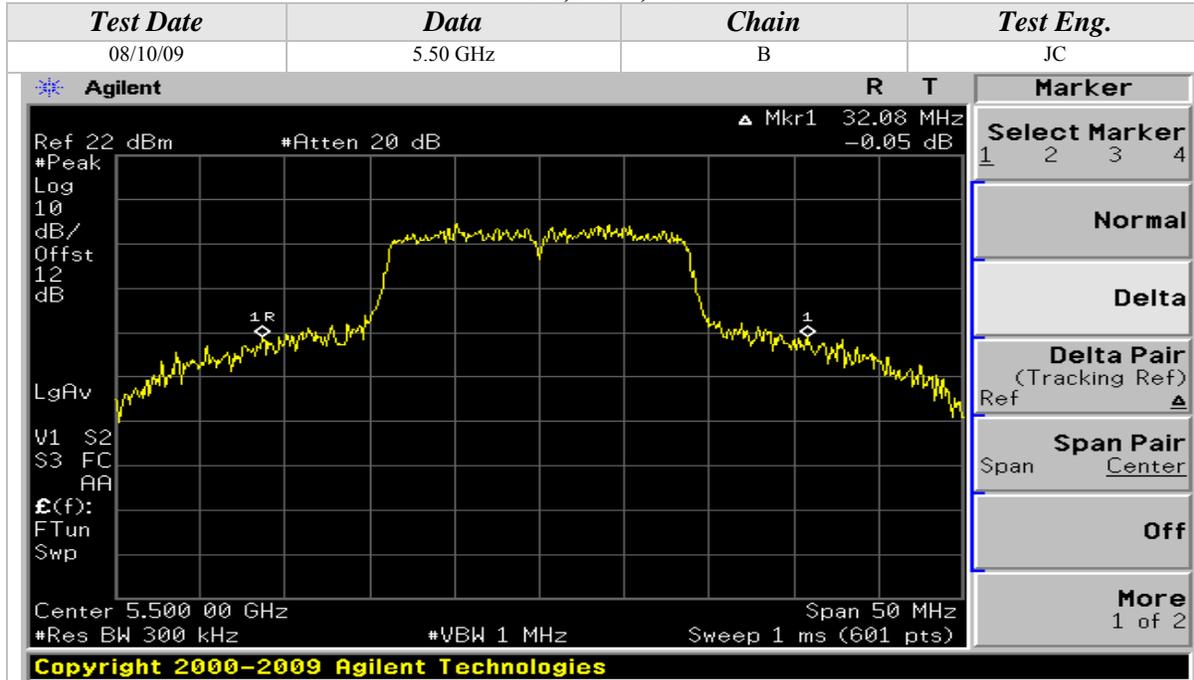
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 20MHz Wide



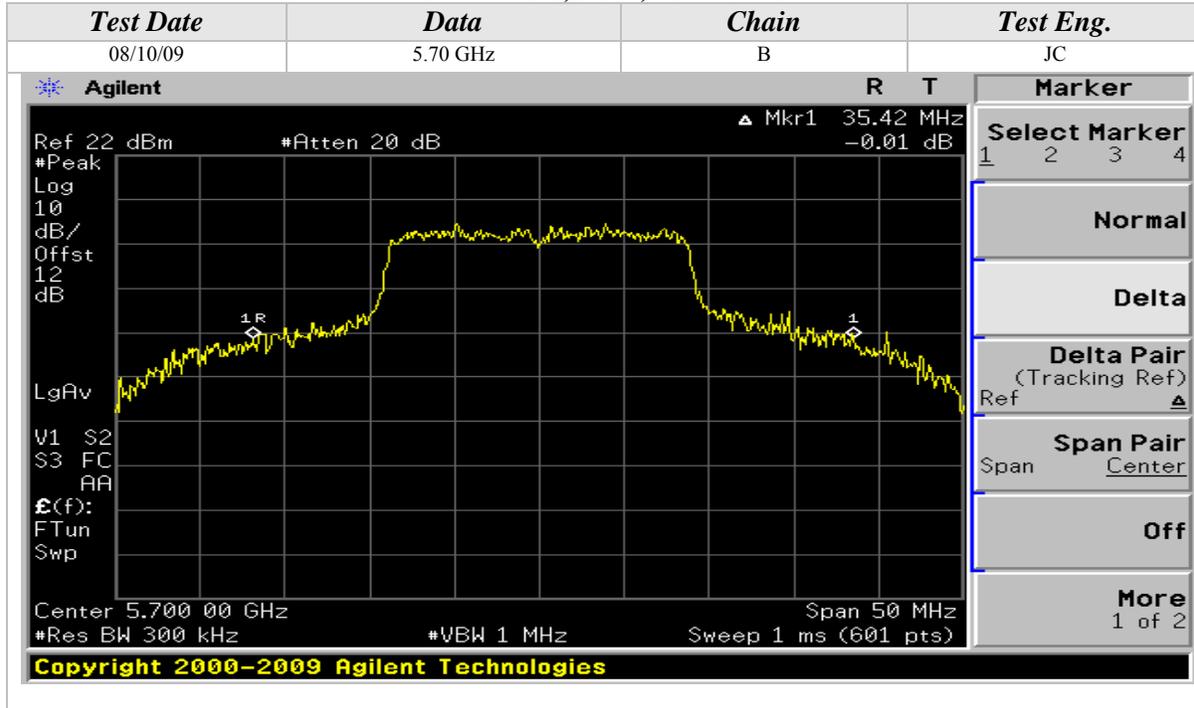
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 20MHz Wide



26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 20MHz Wide





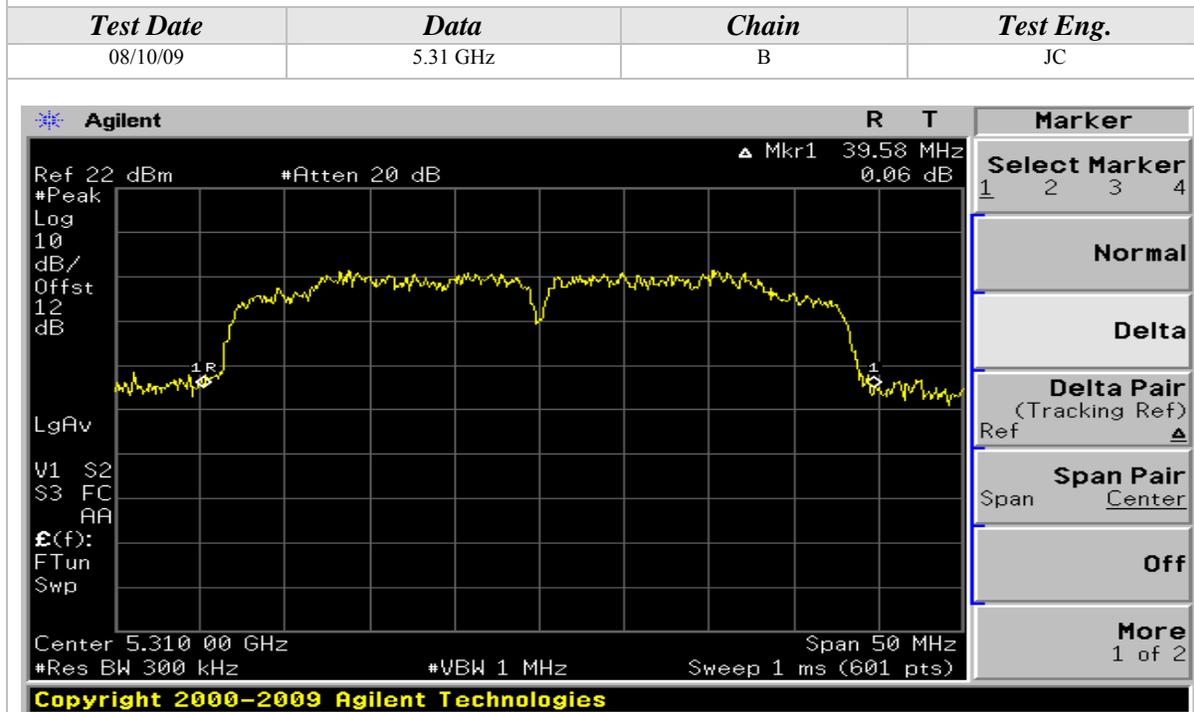
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 40MHz Wide



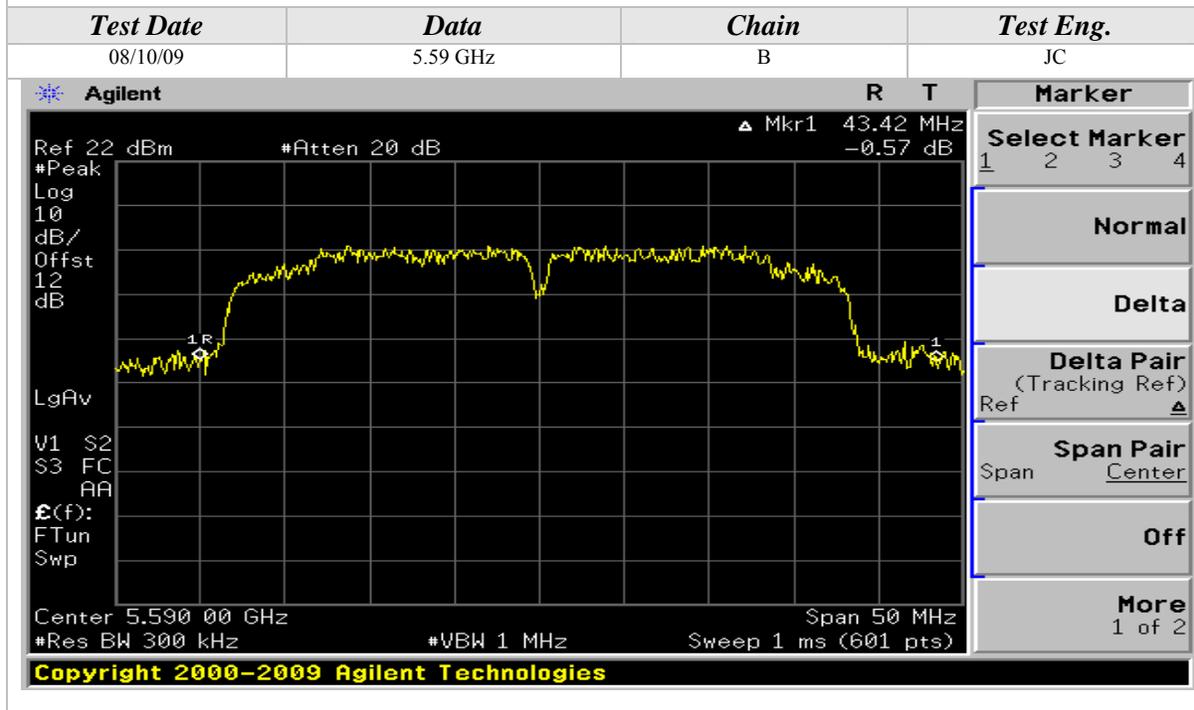
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 40MHz Wide



26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 40MHz Wide



26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 40MHz Wide



**PEAK POWER SPECTRAL DENSITY**

|                       |                                                                                    |                        |              |
|-----------------------|------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                  | <b>DATE:</b>           | 08/11/09     |
| <b>EUT:</b>           | Intel WiFi Link 6200                                                               | <b>PROJECT NUMBER:</b> | INTEL-090601 |
| <b>MODEL NUMBER:</b>  | 622ANHMW                                                                           | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 0015005A70A4                                                                       | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in an extender board connected to the host laptop's mini PCI slot | <b>TEMPERATURE:</b>    | 21 deg. C    |
|                       |                                                                                    | <b>HUMIDITY:</b>       | 49% RH       |
|                       |                                                                                    | <b>TIME:</b>           | 8:30 AM      |

|                     |                                                                                                                                                                                                                                 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description:</b> | For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 4 dBm in any 1-MHz band<br><br>For the band 5.2 5-5.35 GHz & 5.47-5.725, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band |
| <b>Results:</b>     | See Data Sheet                                                                                                                                                                                                                  |
| <b>Note:</b>        | Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. <ul style="list-style-type: none"> <li>120VAC / 60 Hz.</li> </ul>                                      |

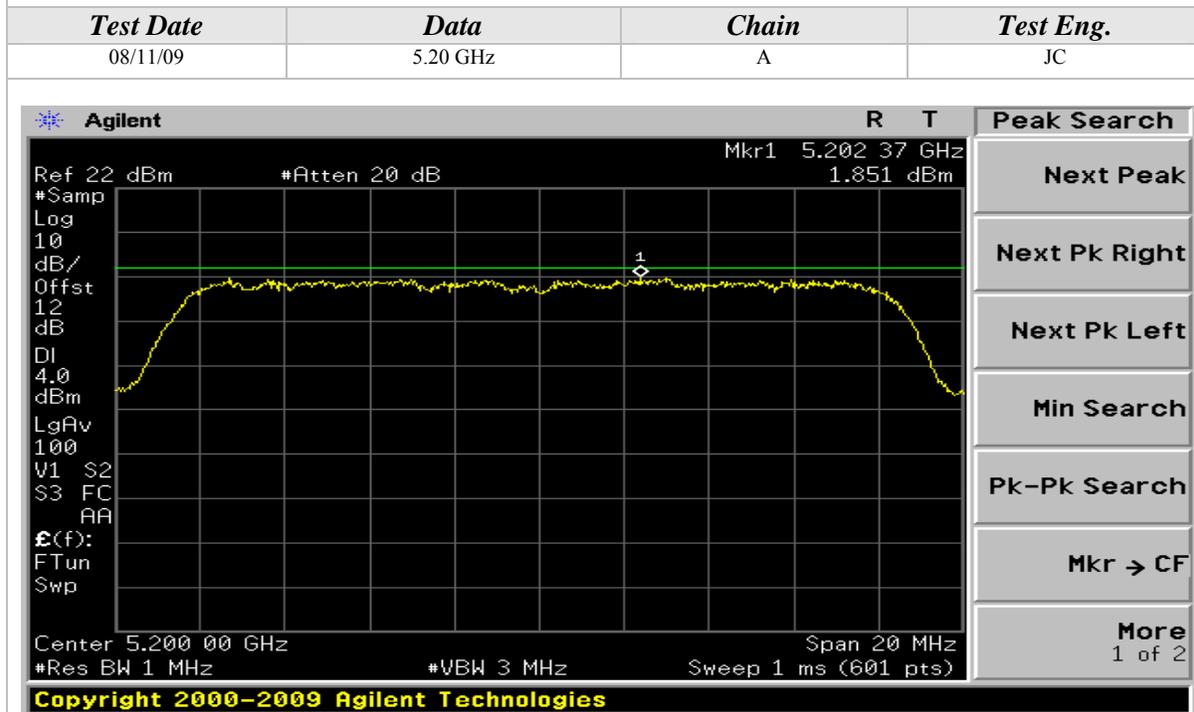
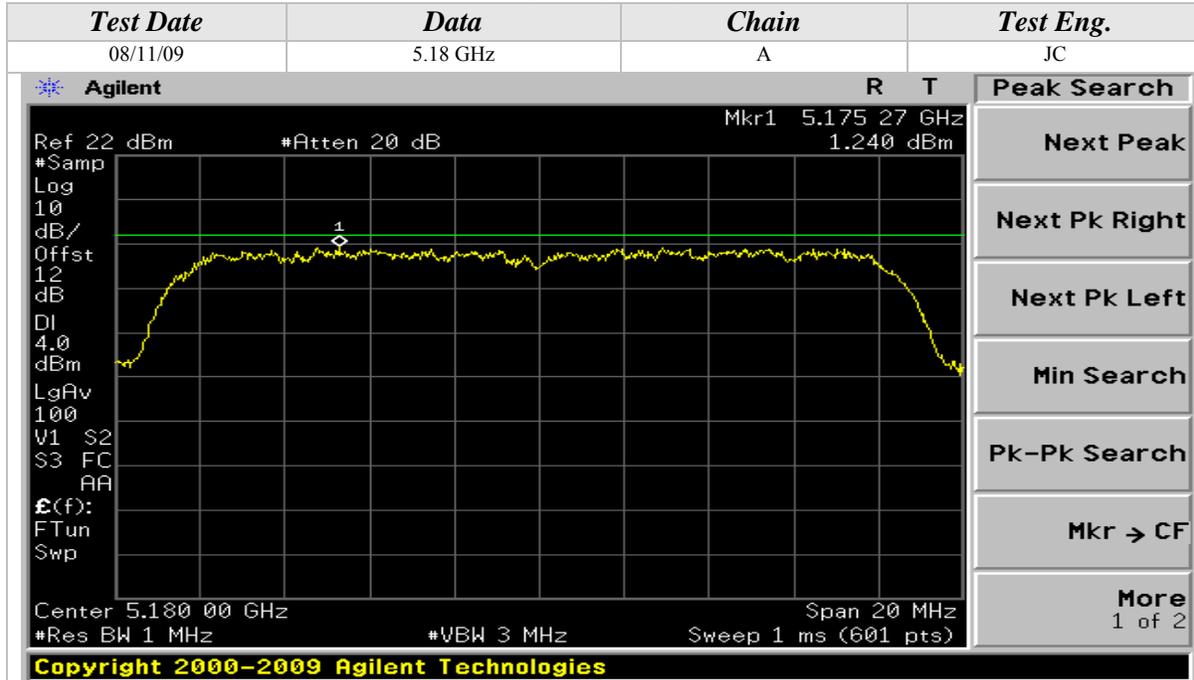
| <b>Peak Power Spectral Density Limits</b> |                    |
|-------------------------------------------|--------------------|
| <b>Frequency (MHz)</b>                    | <b>Limit (dBm)</b> |
| 5150-5250                                 | 4                  |
| 5250-5350                                 | 11                 |
| 5470-5725                                 | 11                 |

Using "Method 2" of the FCC Public Notice (DA 02-2138) for all frequency bands



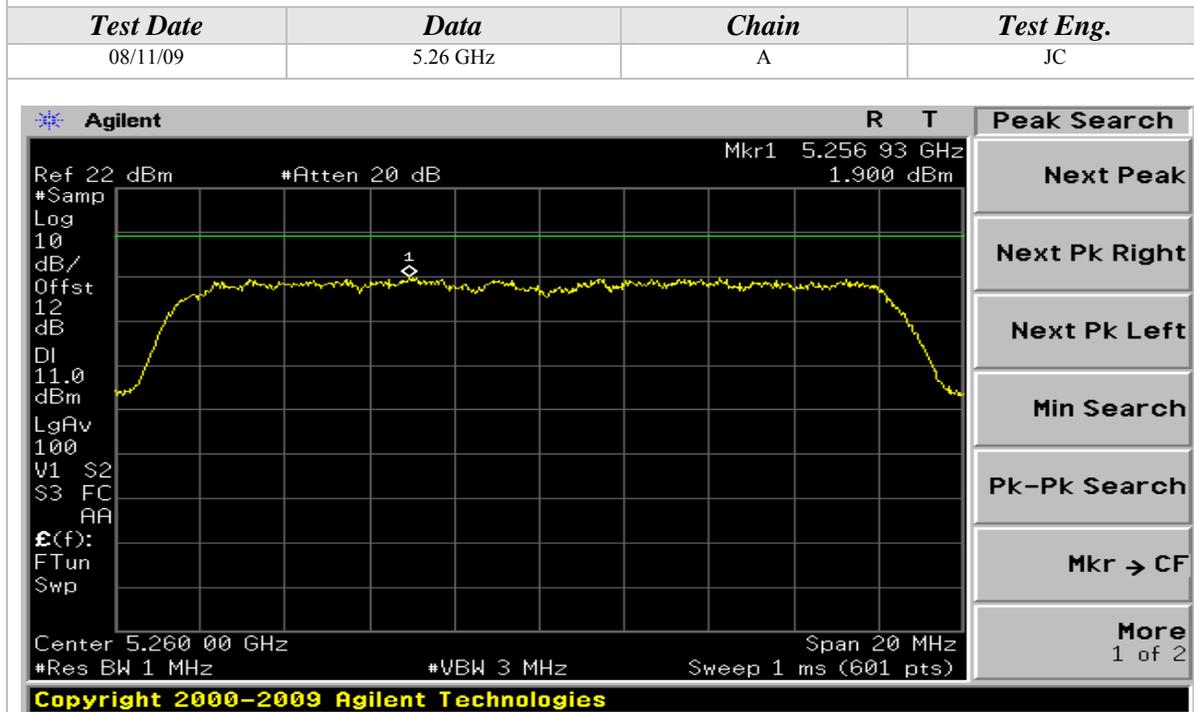
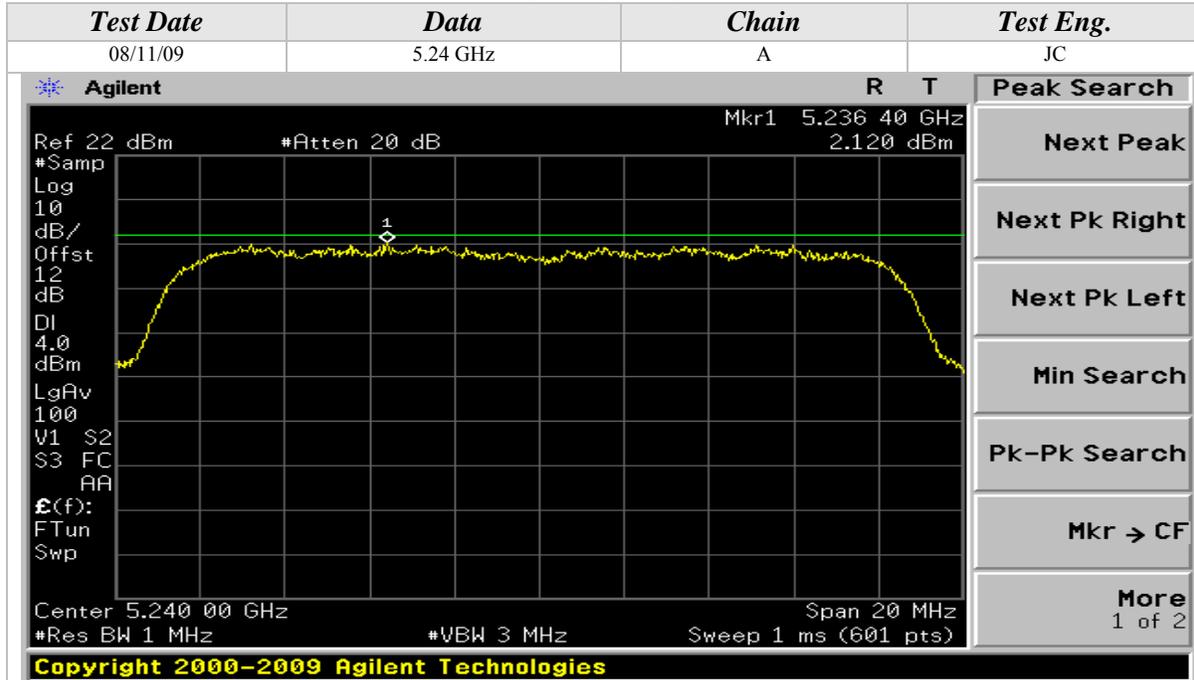
Peak Power Spectral Density (Continued)

802.11a Mode



Peak Power Spectral Density (Continued)

802.11a Mode





Peak Power Spectral Density (Continued)

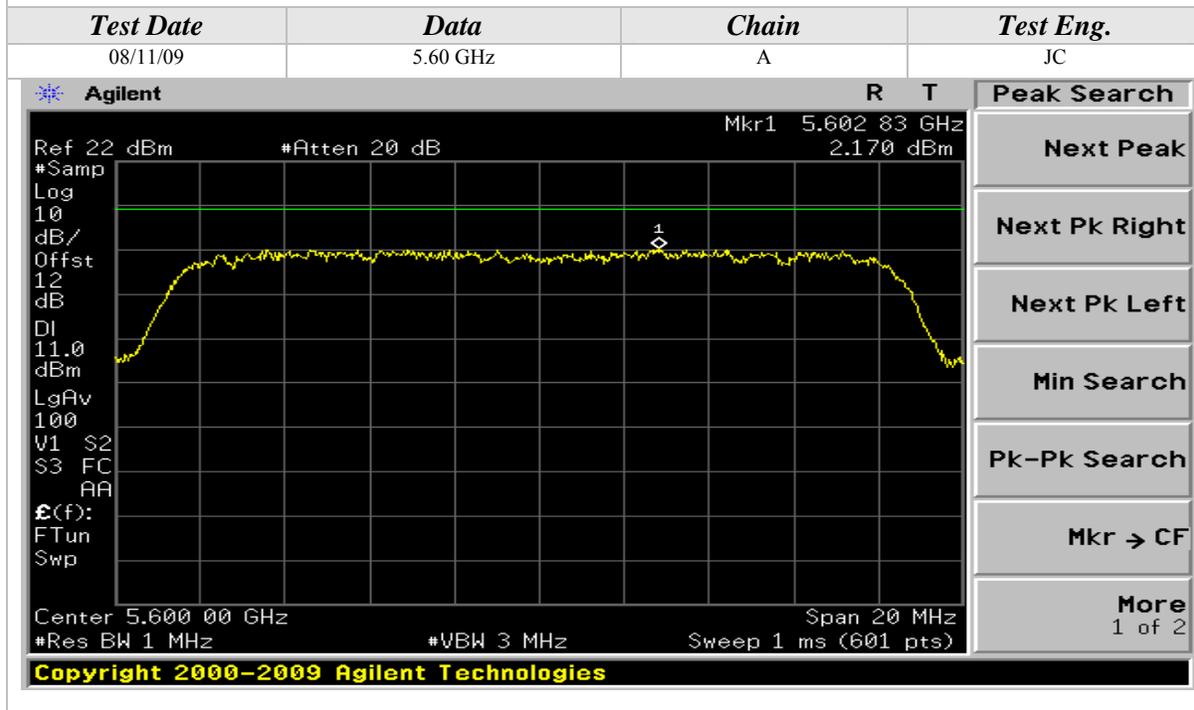
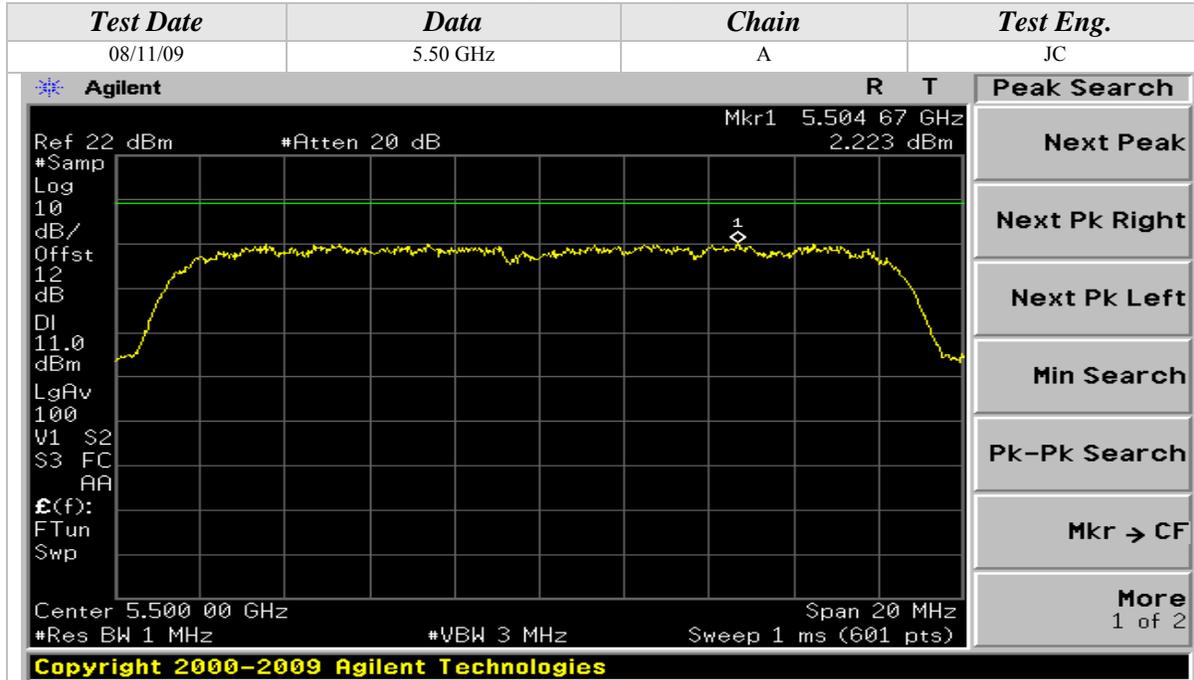
802.11a Mode





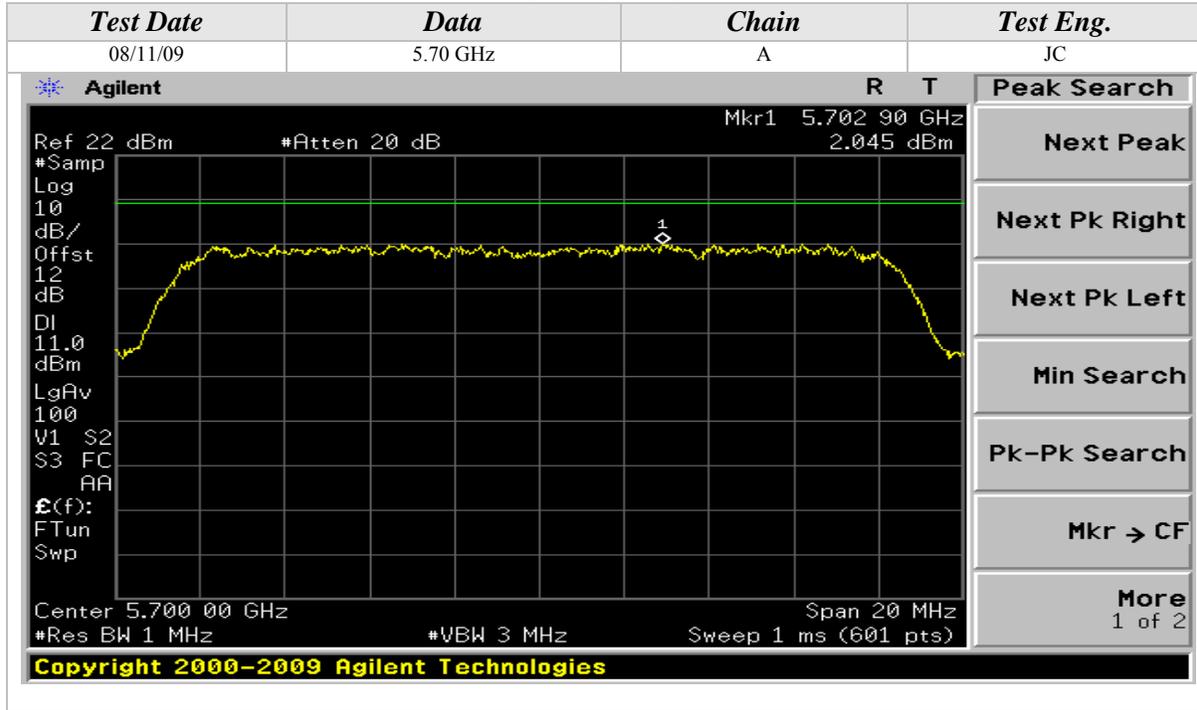
Peak Power Spectral Density (Continued)

802.11a Mode



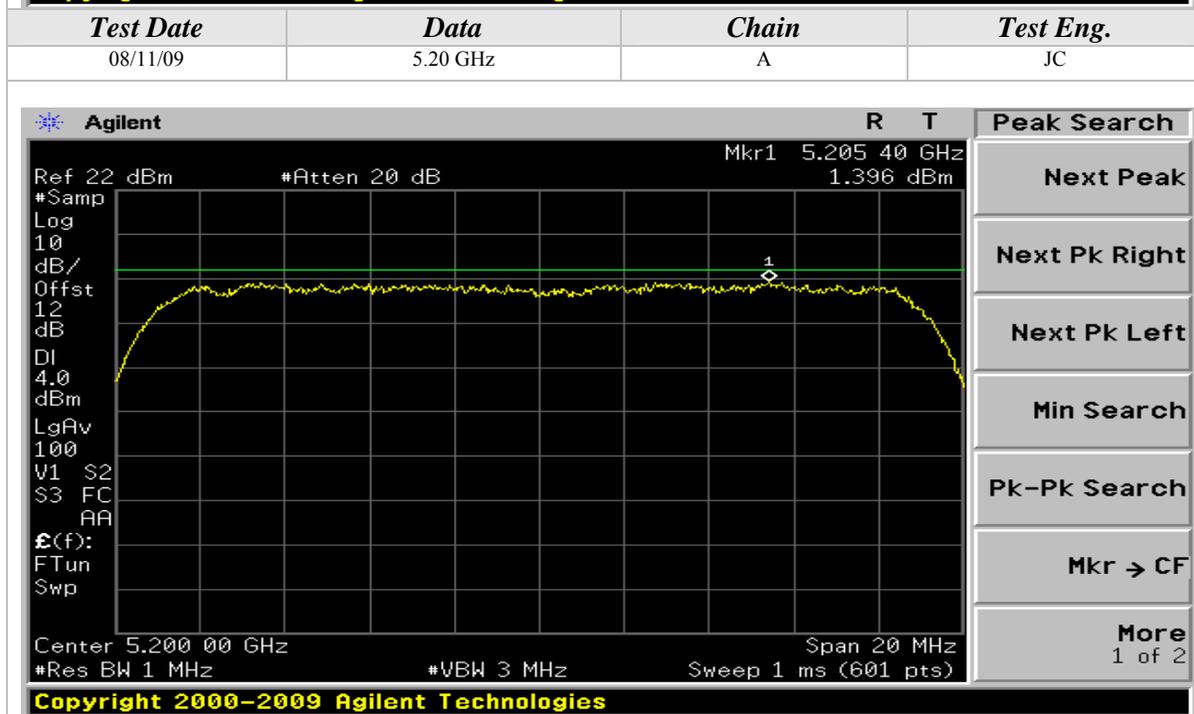
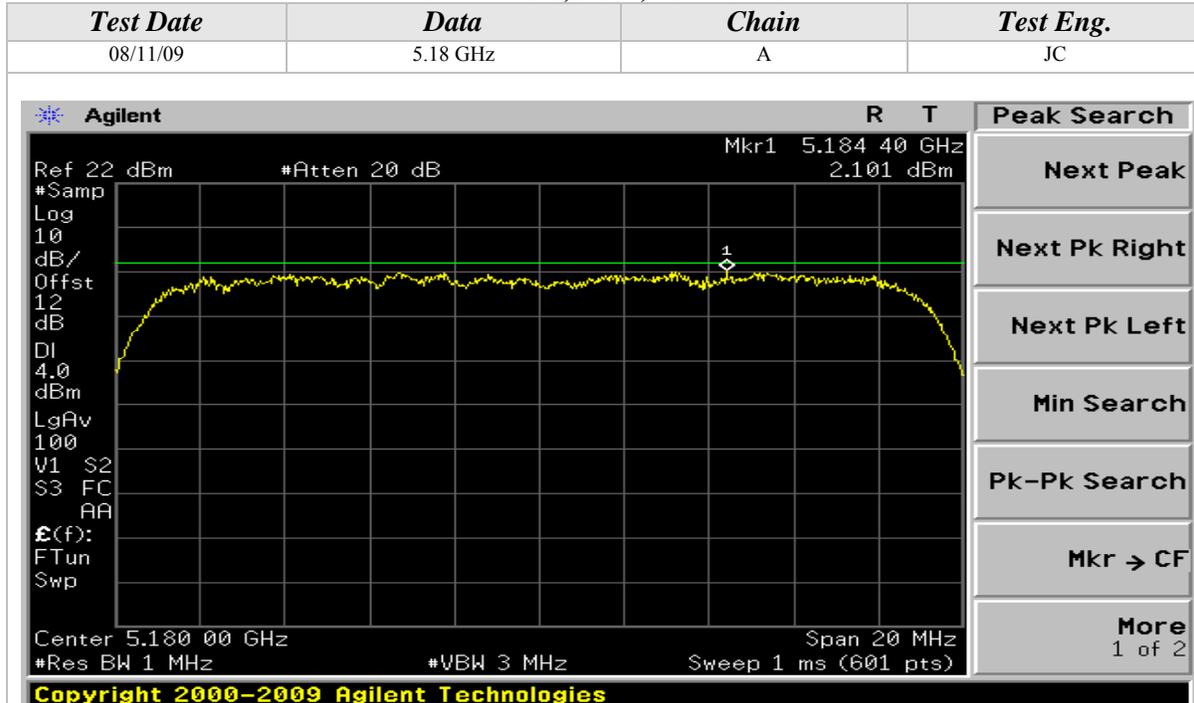
Peak Power Spectral Density (Continued)

802.11a Mode



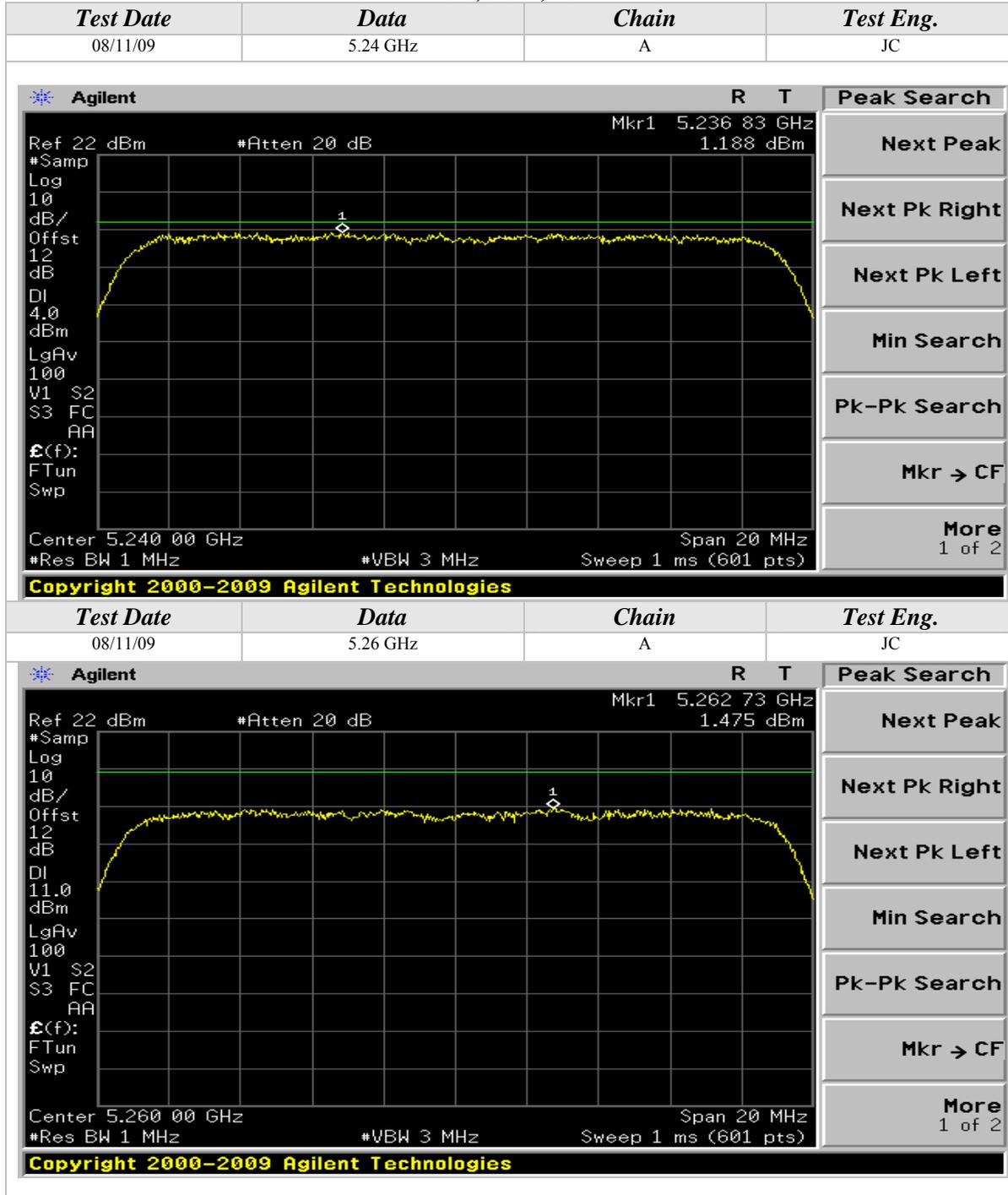
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 20MHz Wide



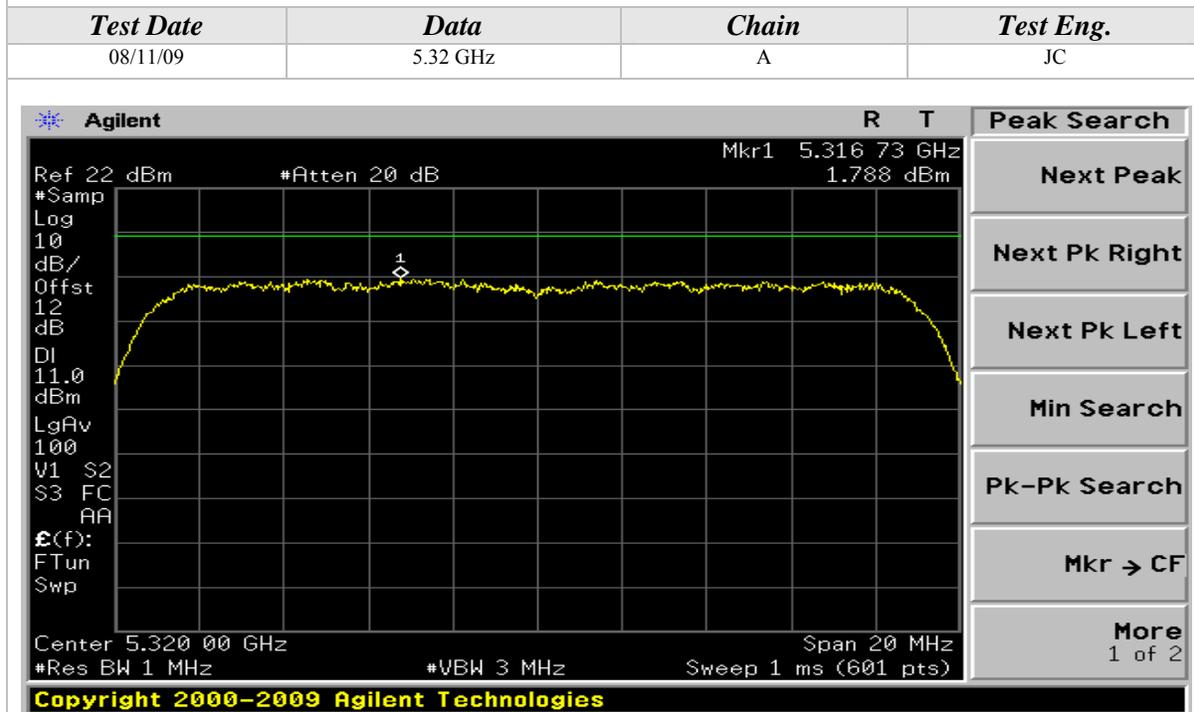
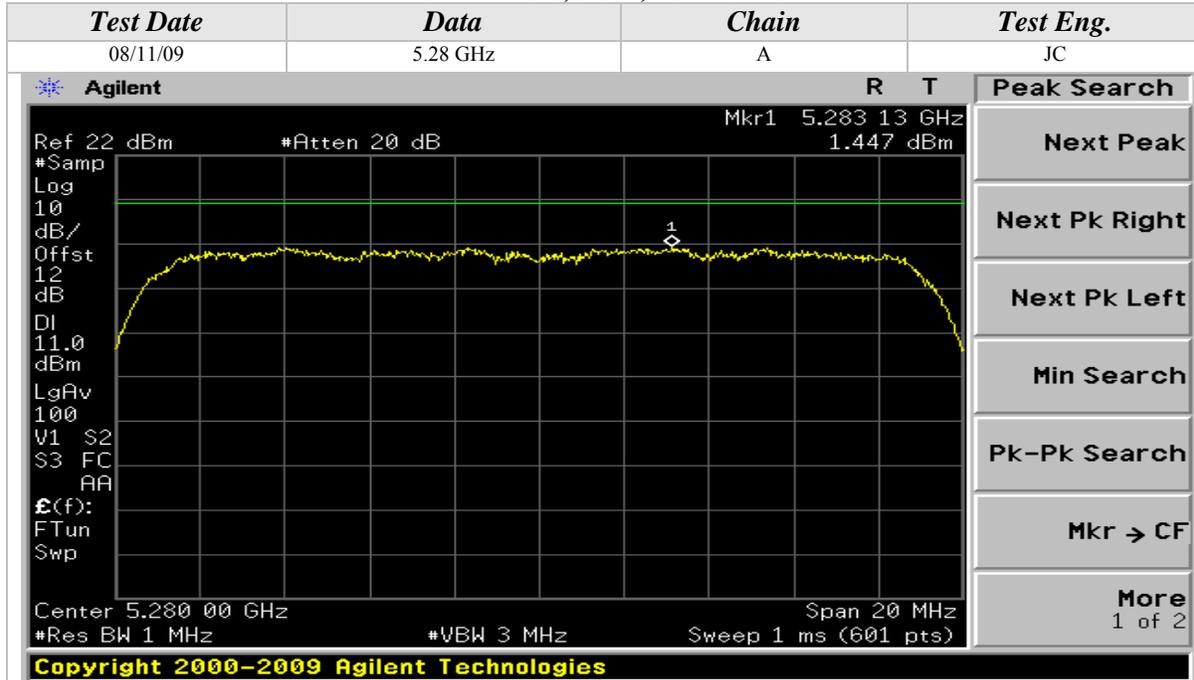
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 20MHz Wide



Peak Power Spectral Density (Continued)

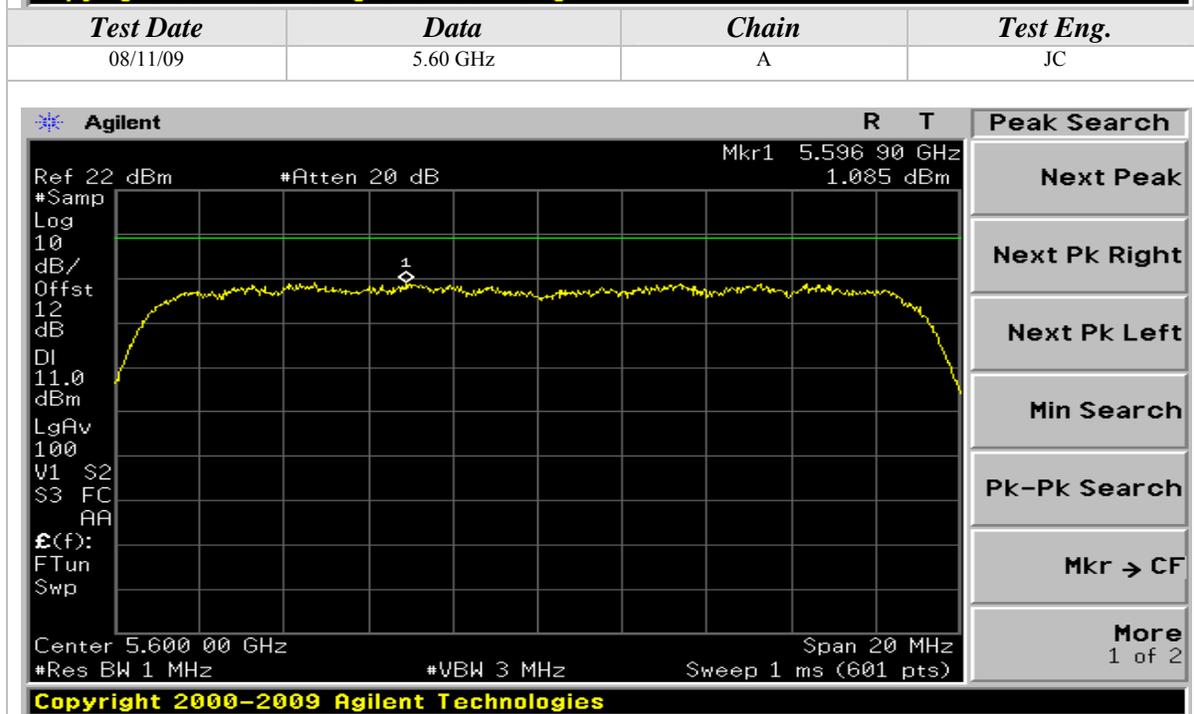
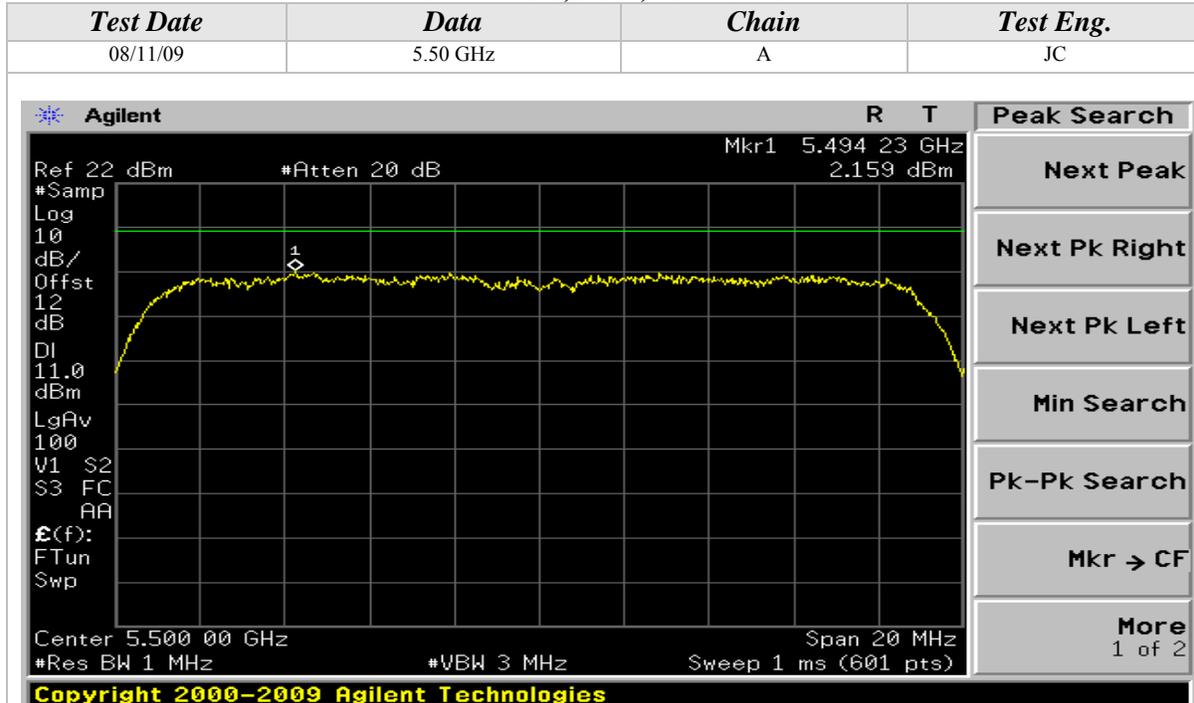
802.11n Mode, 5GHz, 20MHz Wide





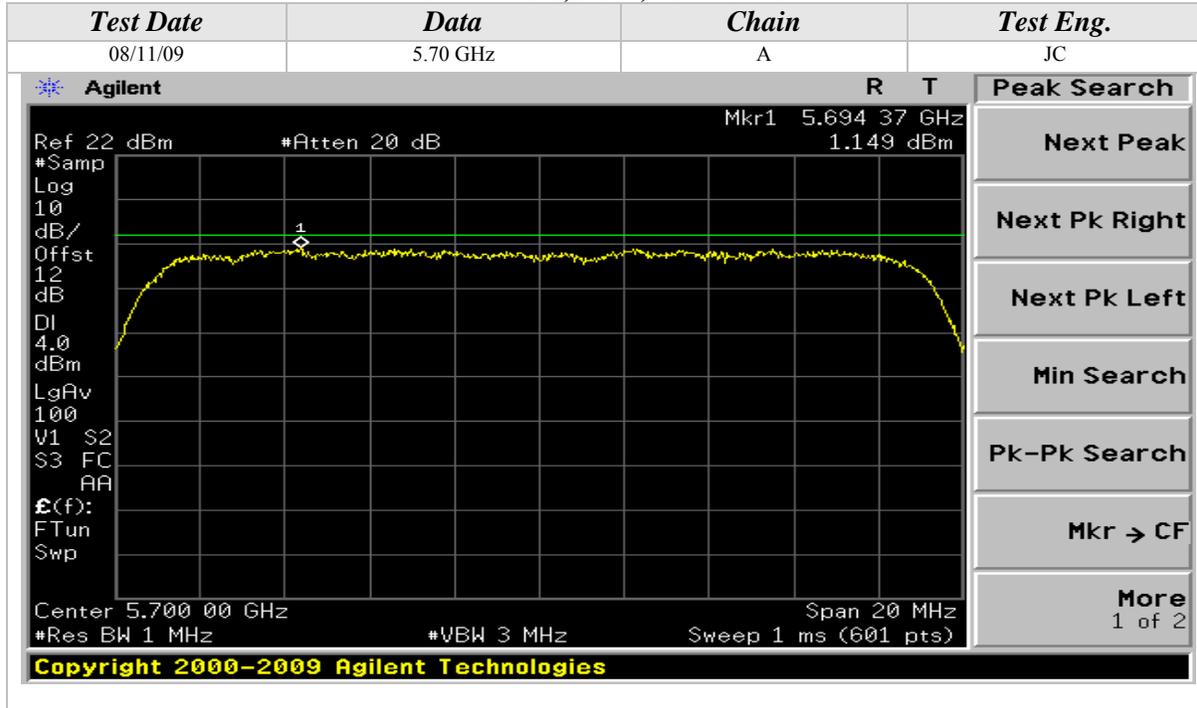
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 20MHz Wide



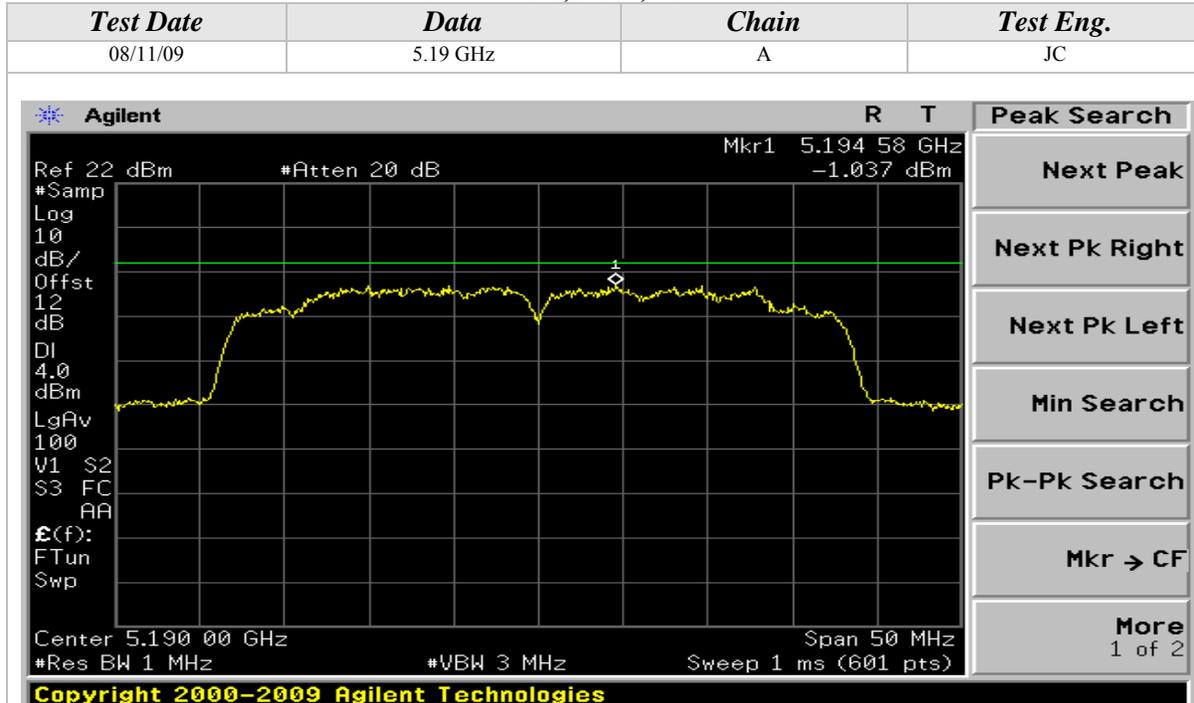
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 20MHz Wide



Peak Power Spectral Density (Continued)

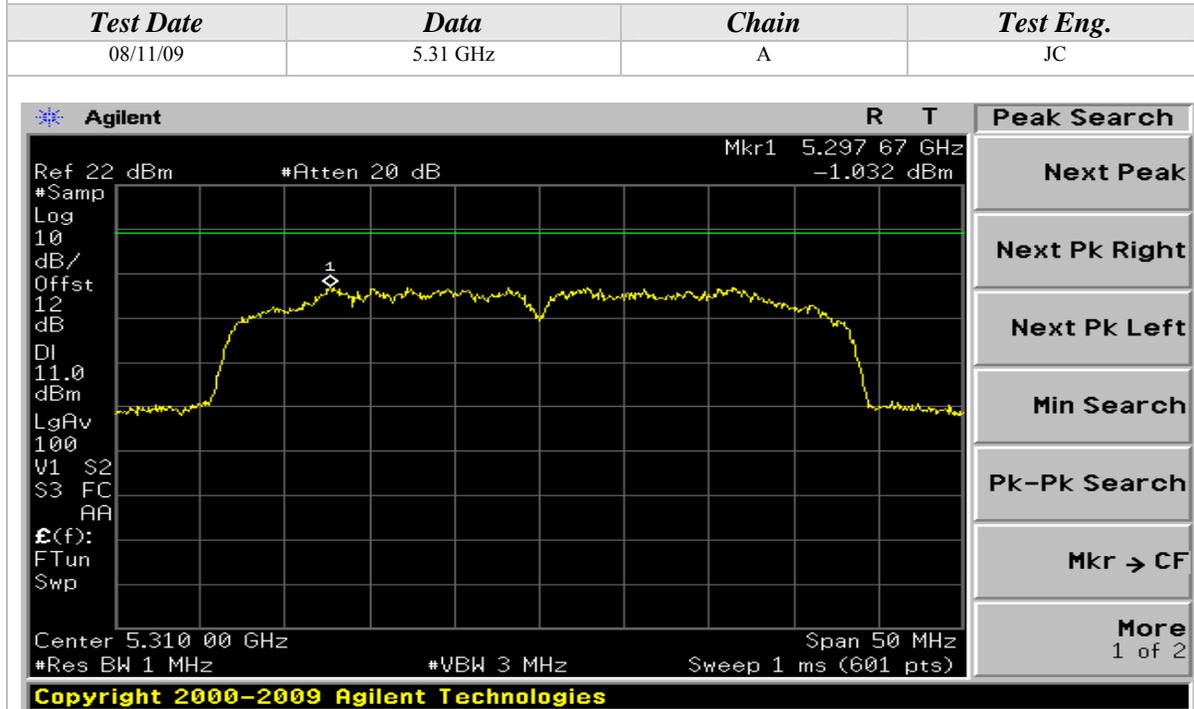
802.11n Mode, 5GHz, 40MHz Wide





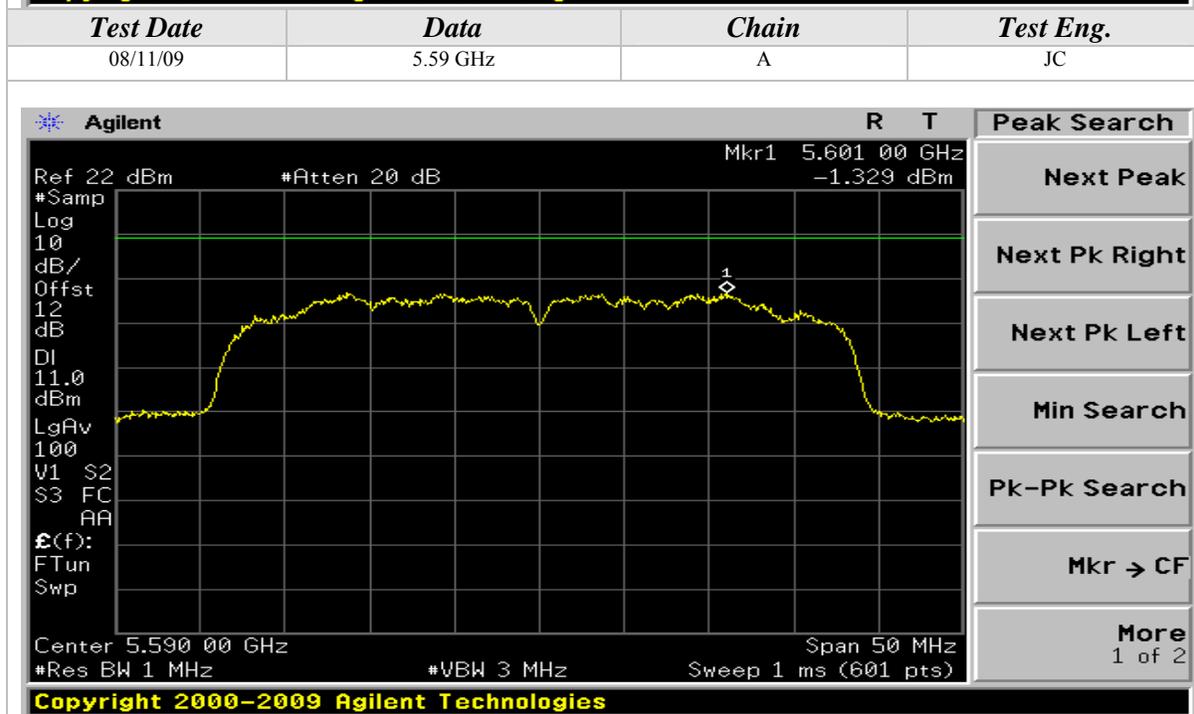
### Peak Power Spectral Density (Continued)

#### 802.11n Mode, 5GHz, 40MHz Wide



Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 40MHz Wide



Peak Power Spectral Density (Continued)

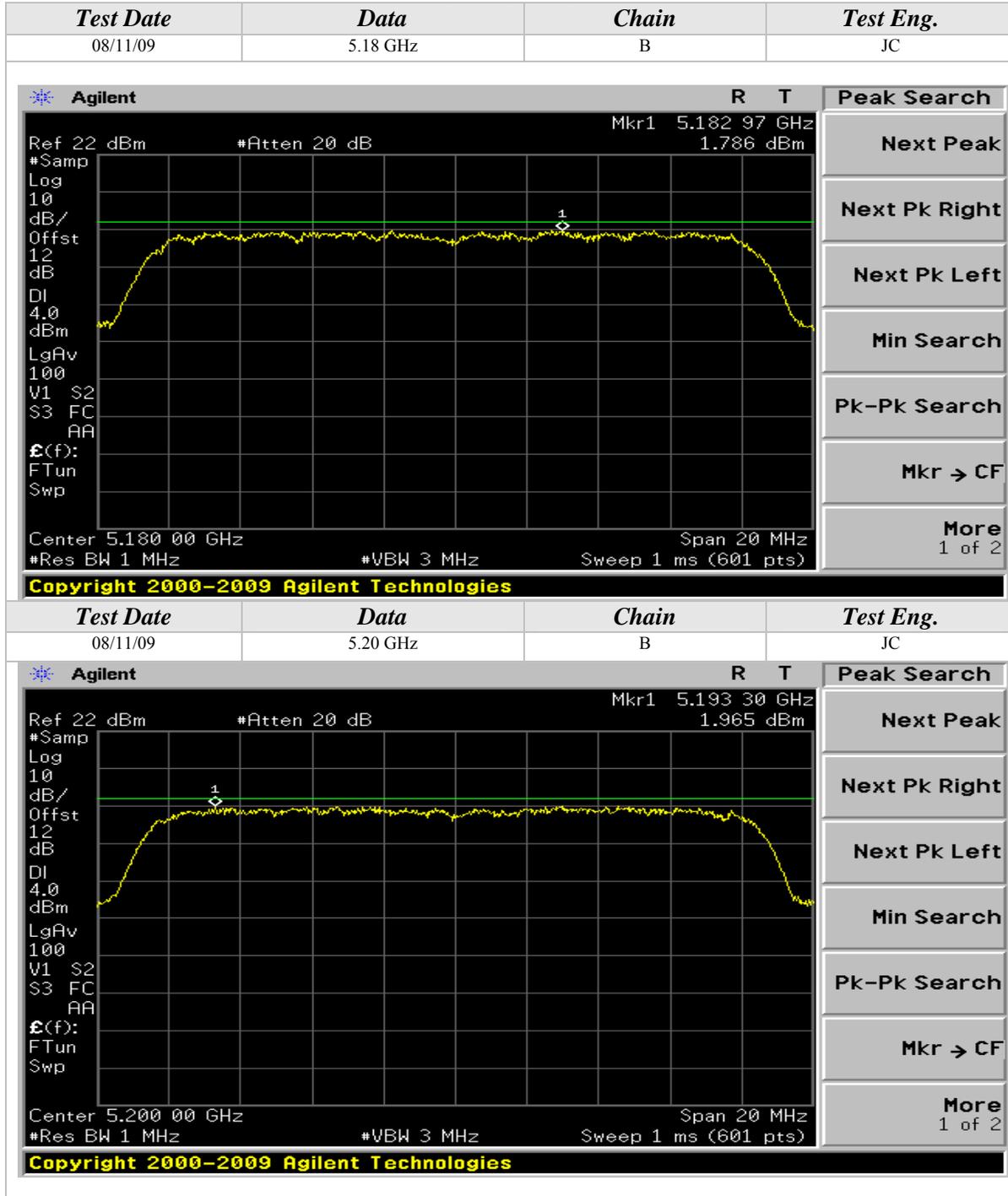
802.11n Mode, 5GHz, 40MHz Wide





Peak Power Spectral Density (Continued)

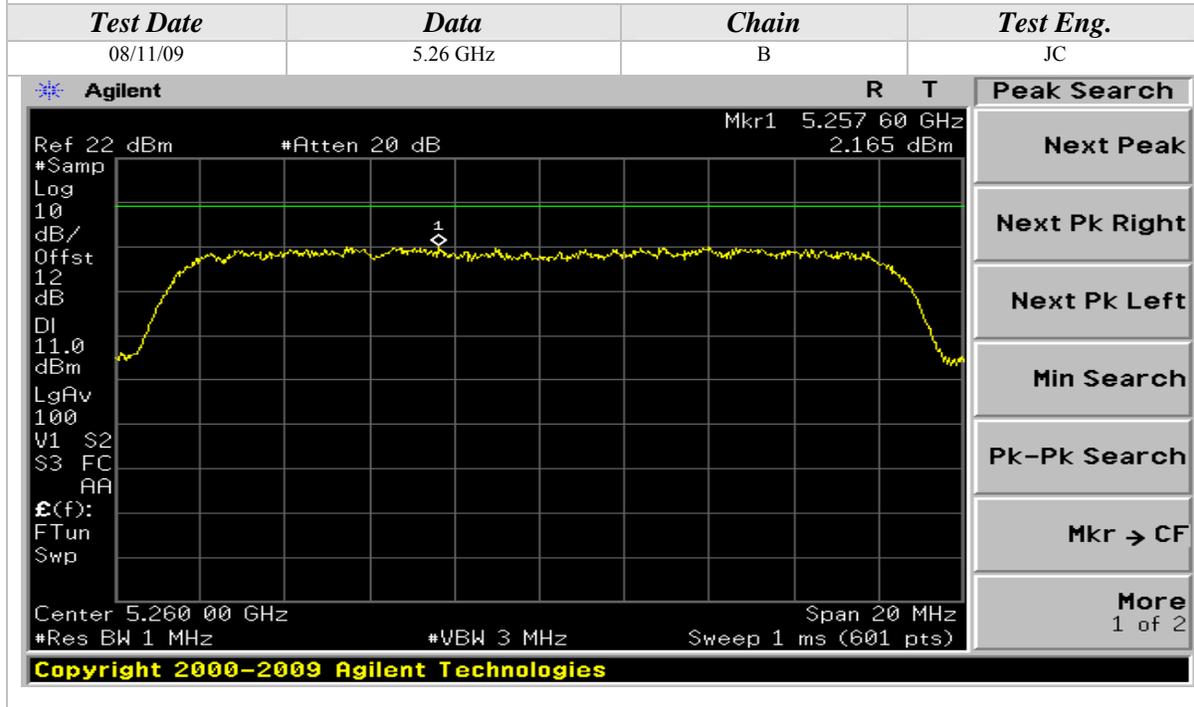
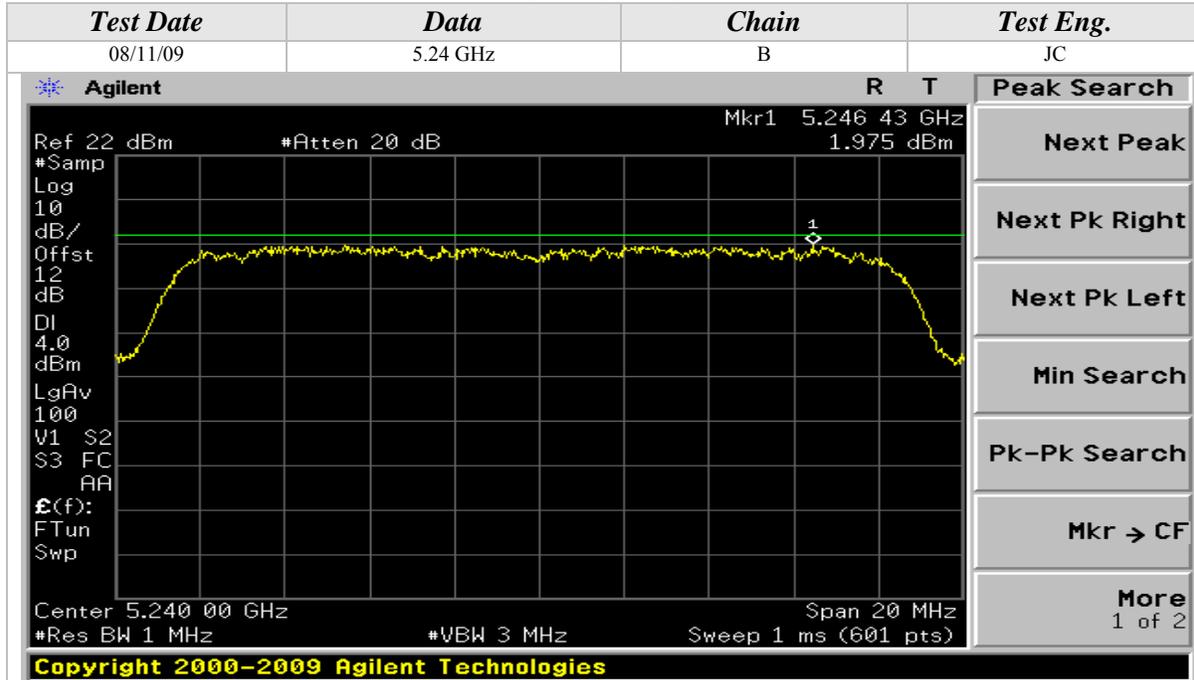
802.11a Mode





Peak Power Spectral Density (Continued)

802.11a Mode





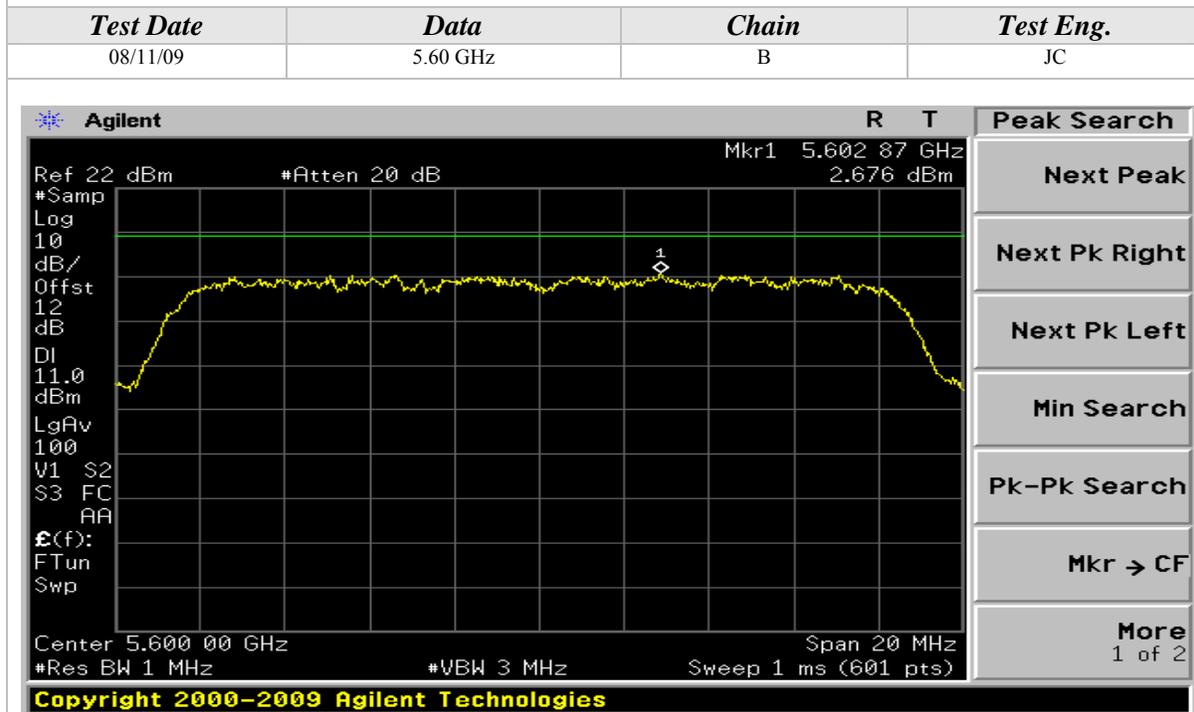
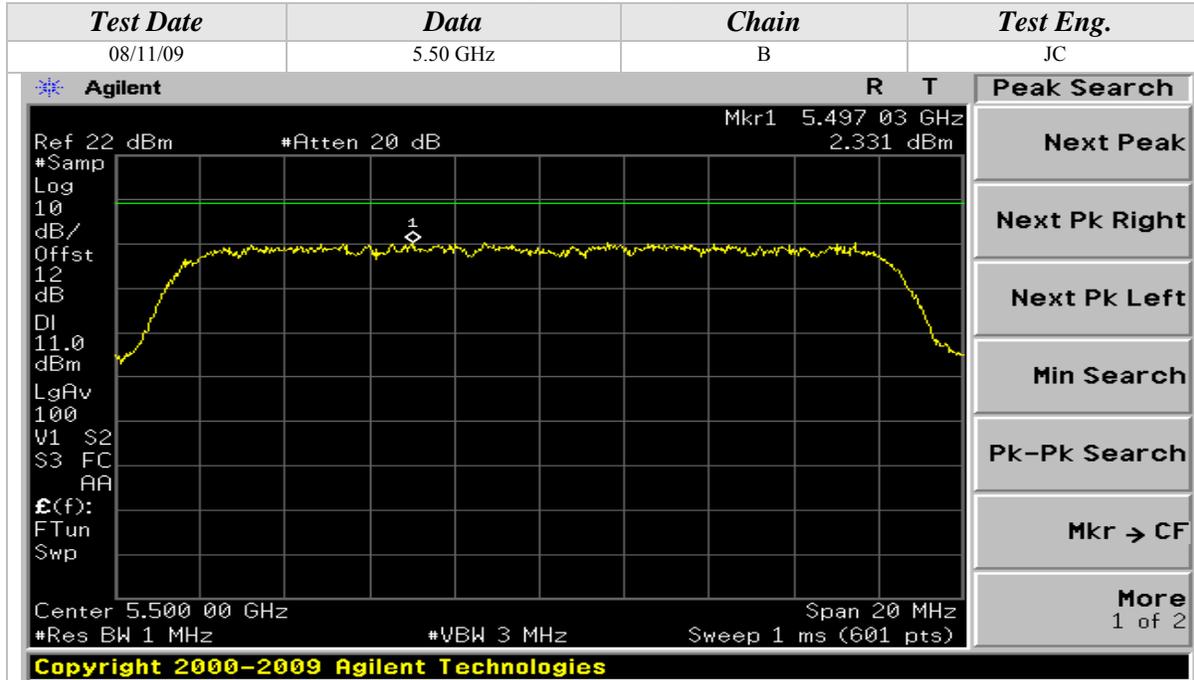
Peak Power Spectral Density (Continued)

802.11a Mode



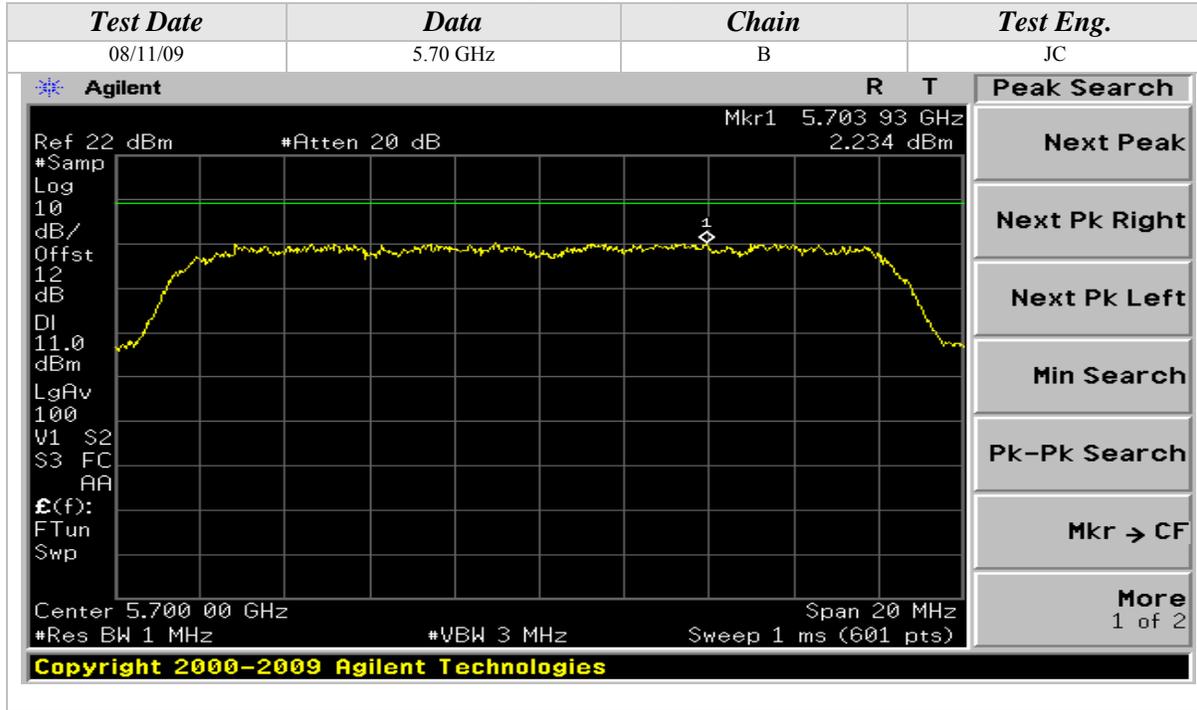
Peak Power Spectral Density (Continued)

802.11a Mode



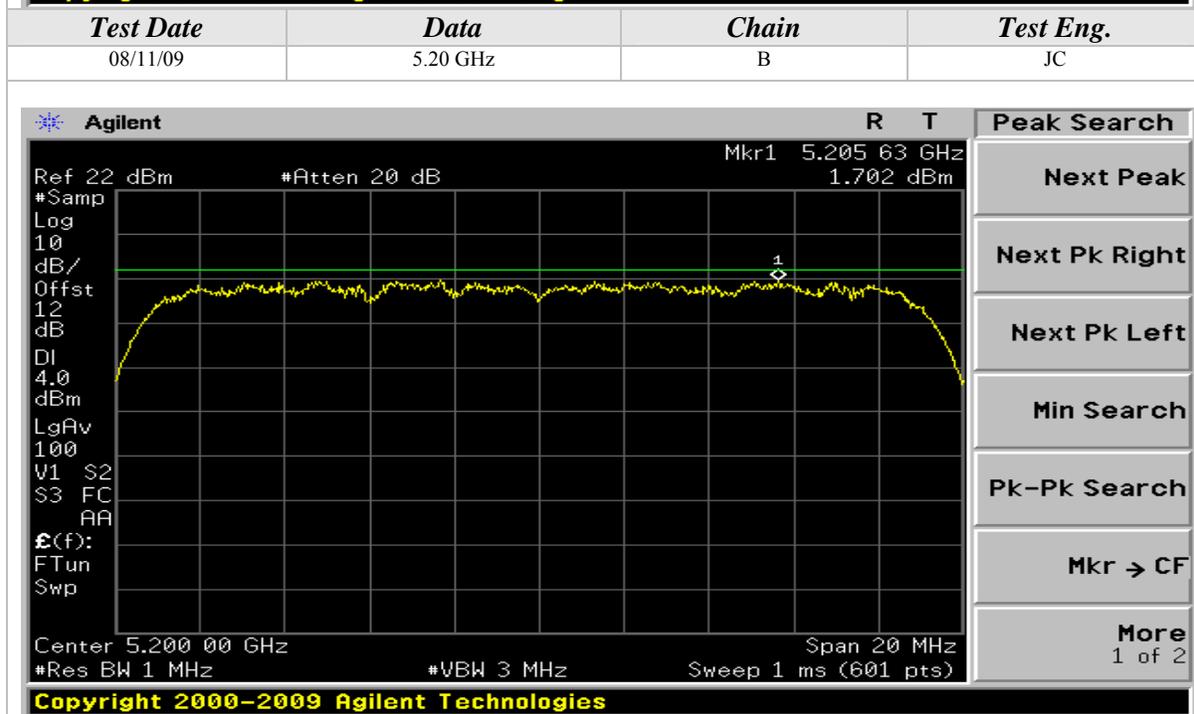
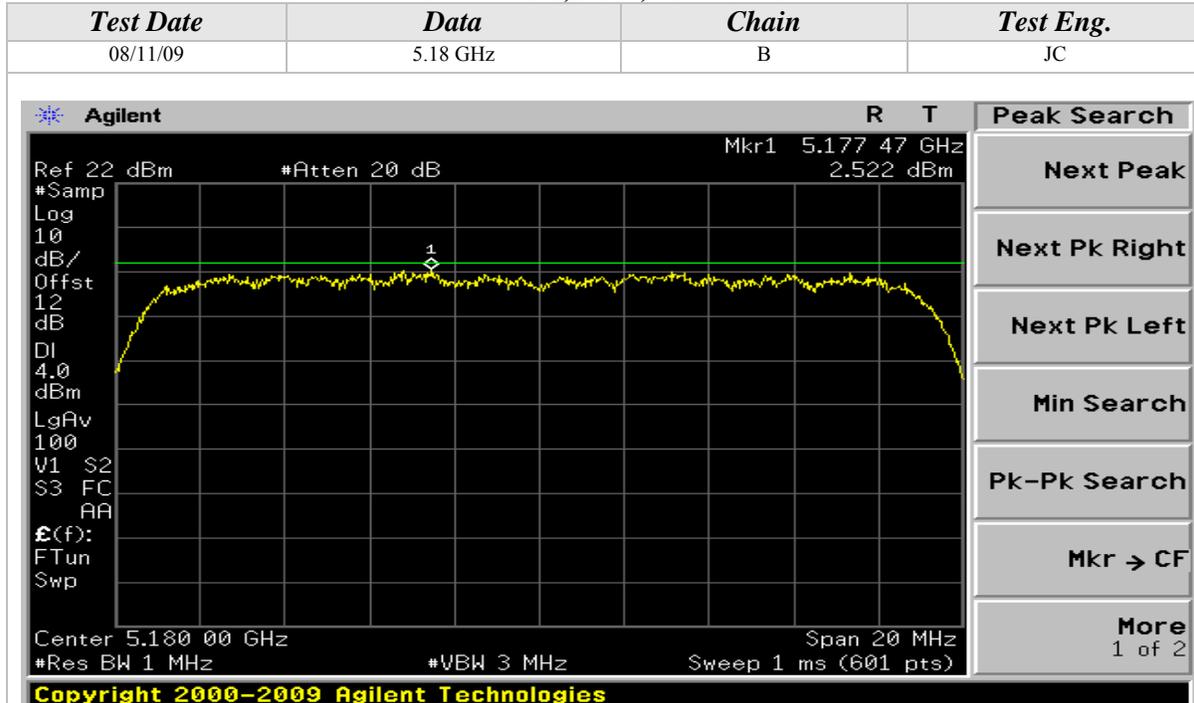
Peak Power Spectral Density (Continued)

802.11a Mode



Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 20MHz Wide



Peak Power Spectral Density (Continued)

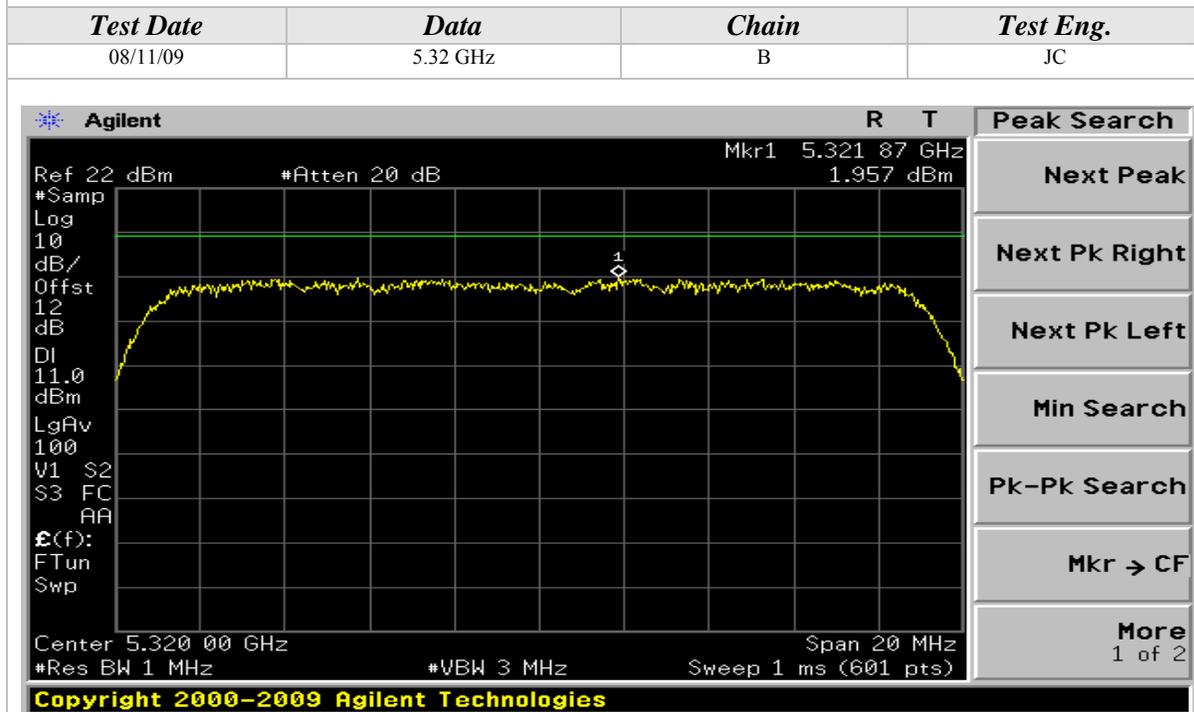
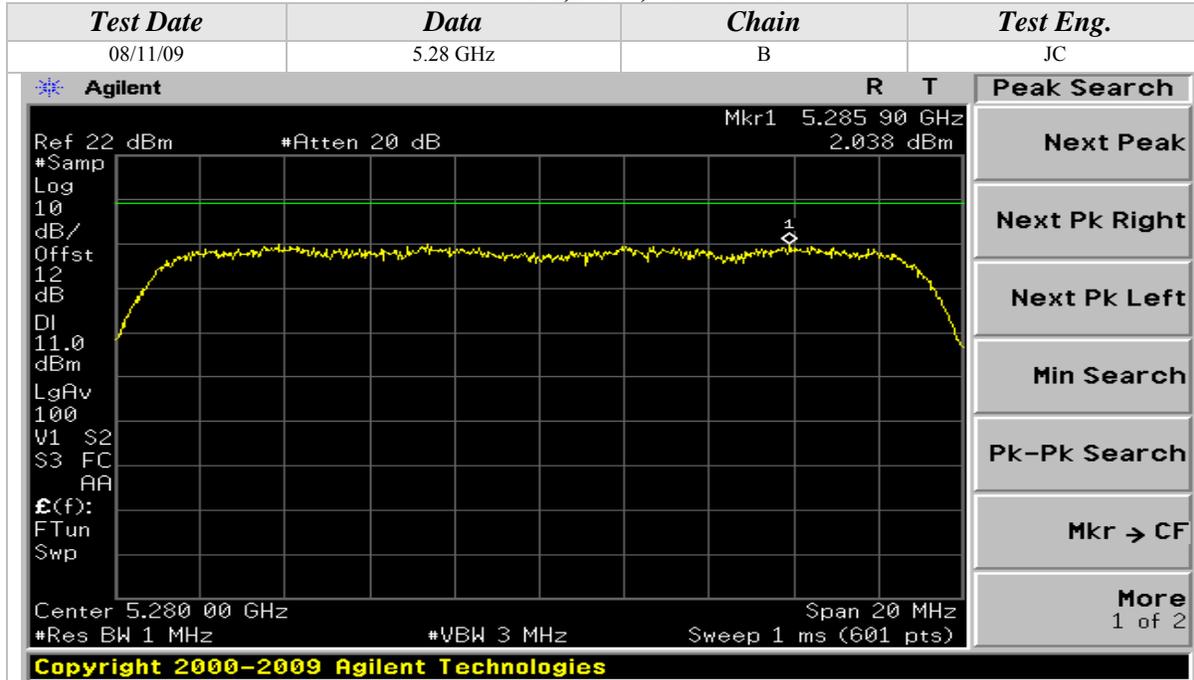
802.11n Mode, 5GHz, 20MHz Wide





Peak Power Spectral Density (Continued)

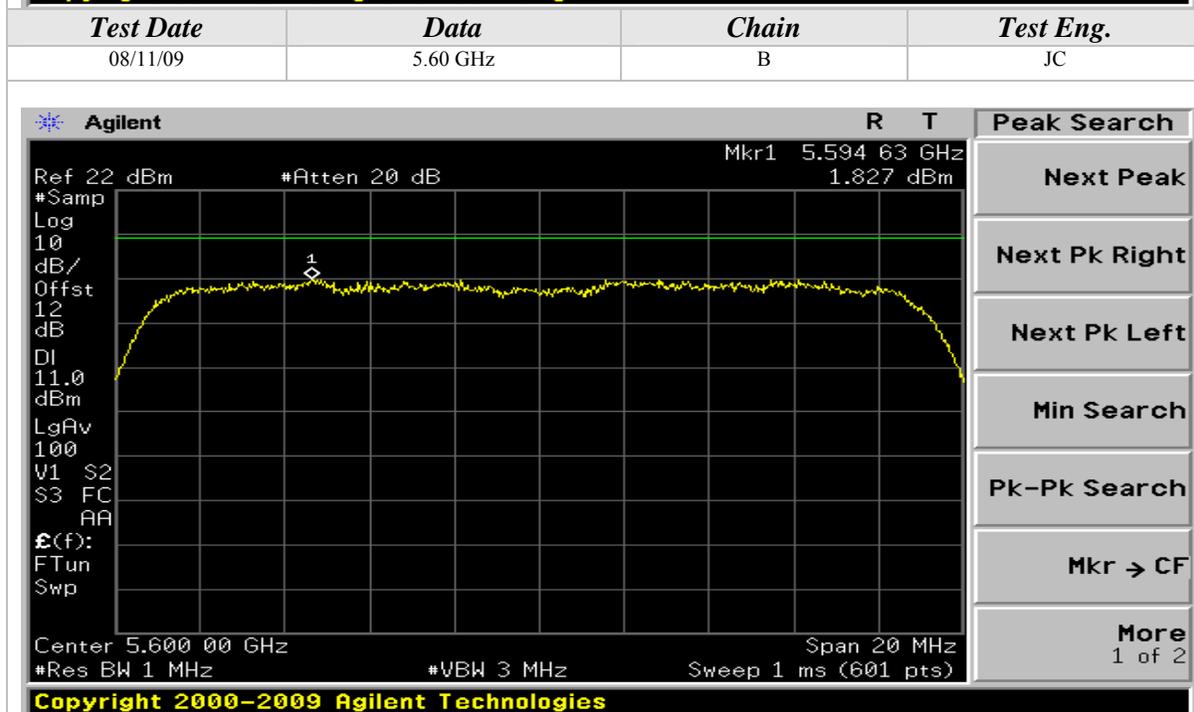
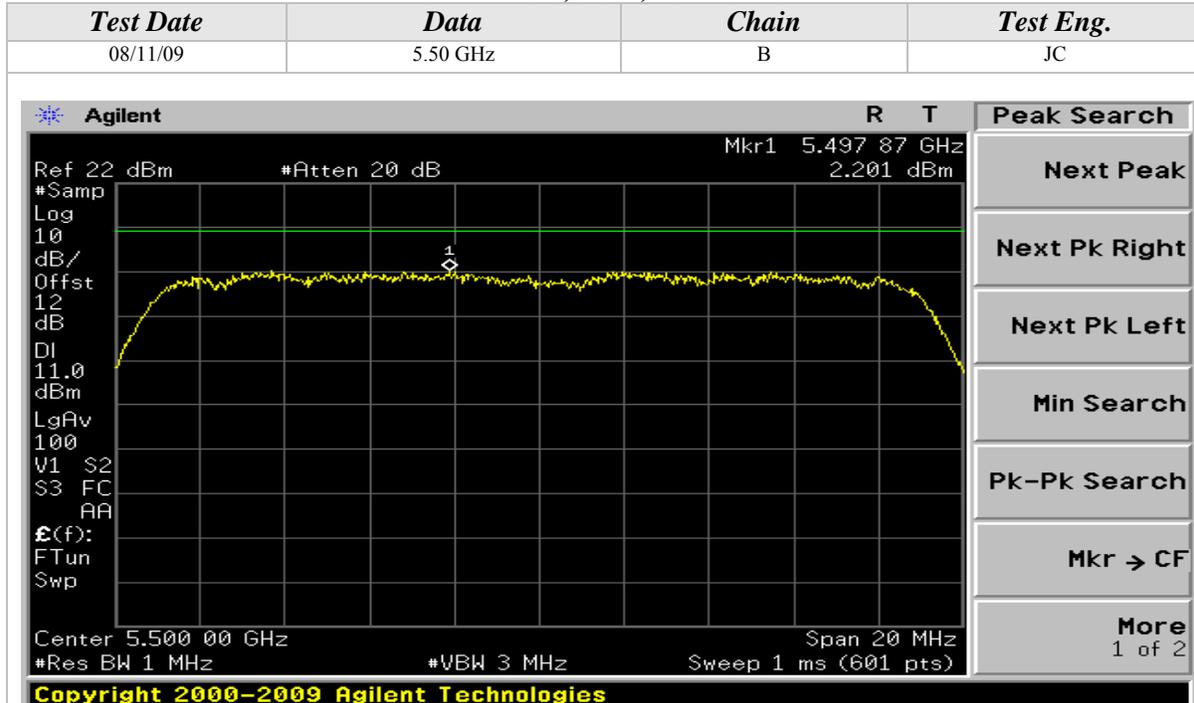
802.11n Mode, 5GHz, 20MHz Wide





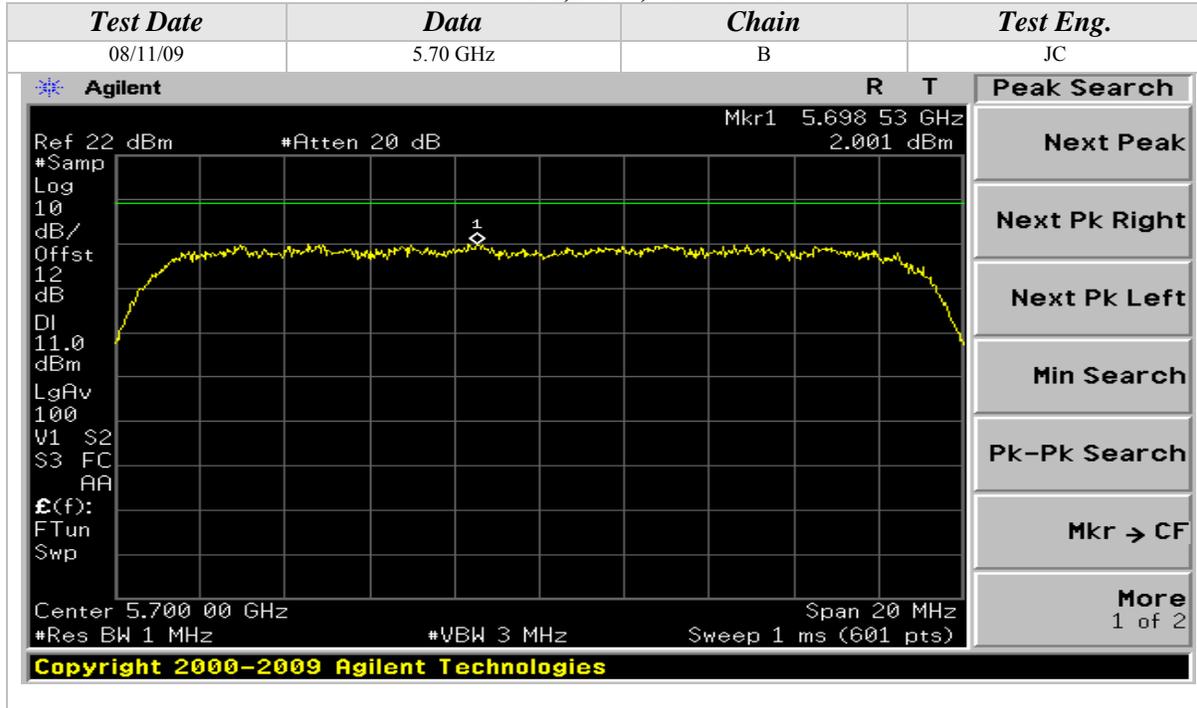
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 20MHz Wide



Peak Power Spectral Density (Continued)

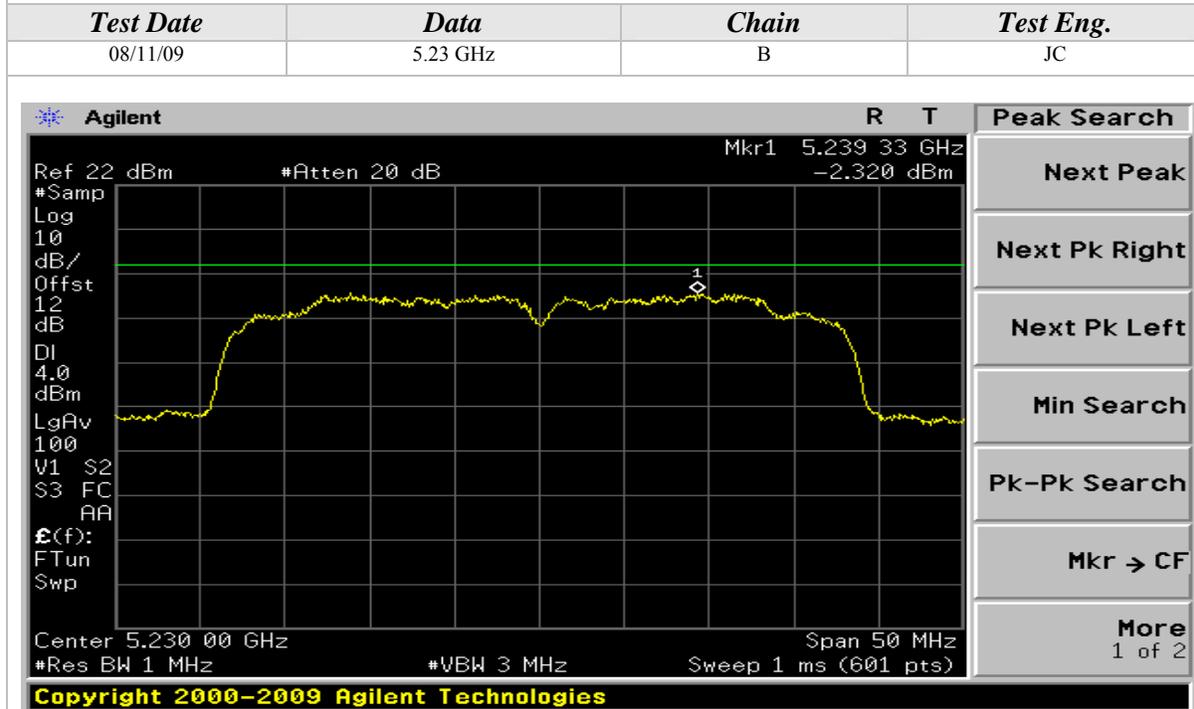
802.11n Mode, 5GHz, 20MHz Wide





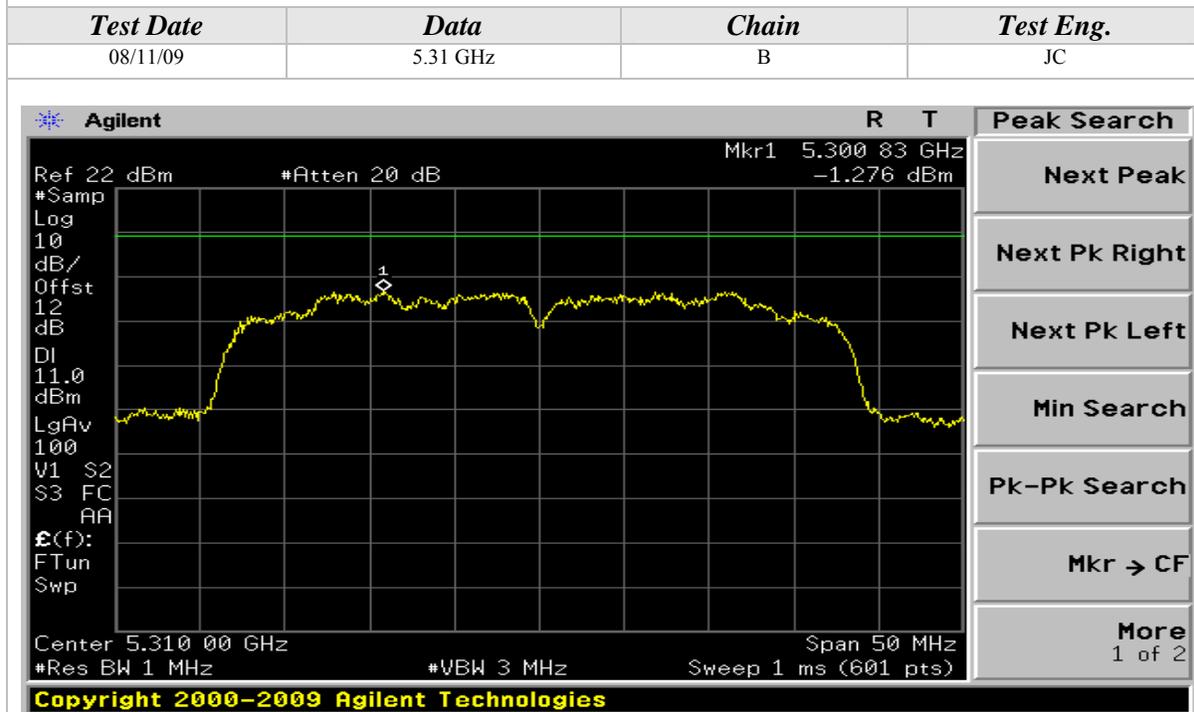
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 40MHz Wide



Peak Power Spectral Density (Continued)

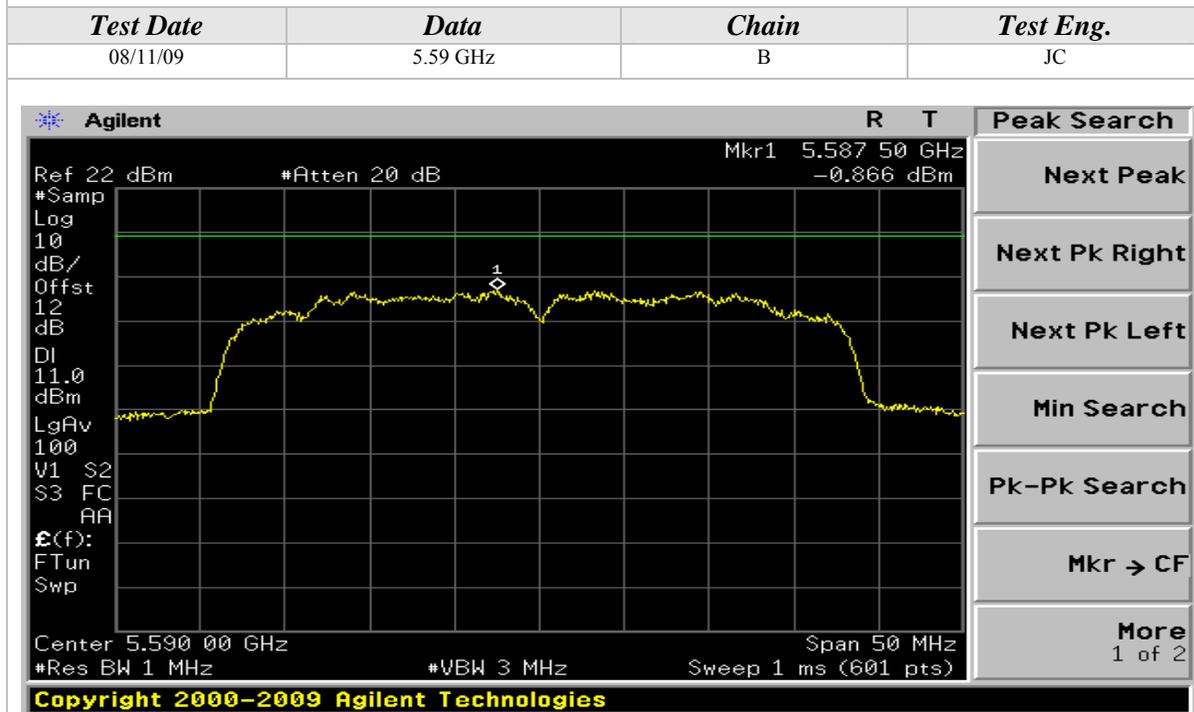
802.11n Mode, 5GHz, 40MHz Wide





### Peak Power Spectral Density (Continued)

#### 802.11n Mode, 5GHz, 40MHz Wide



Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 40MHz Wide



**PEAK EXCURSION**

|                       |                                                                                    |                        |              |
|-----------------------|------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                  | <b>DATE:</b>           | 08/12/09     |
| <b>EUT:</b>           | Intel WiFi Link 6200                                                               | <b>PROJECT NUMBER:</b> | INTEL-090601 |
| <b>MODEL NUMBER:</b>  | 622ANHMW                                                                           | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 0015005A70A4                                                                       | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in an extender board connected to the host laptop's mini PCI slot | <b>TEMPERATURE:</b>    | 22 deg. C    |
|                       |                                                                                    | <b>HUMIDITY:</b>       | 32% RH       |
|                       |                                                                                    | <b>TIME:</b>           | 9:30 AM      |

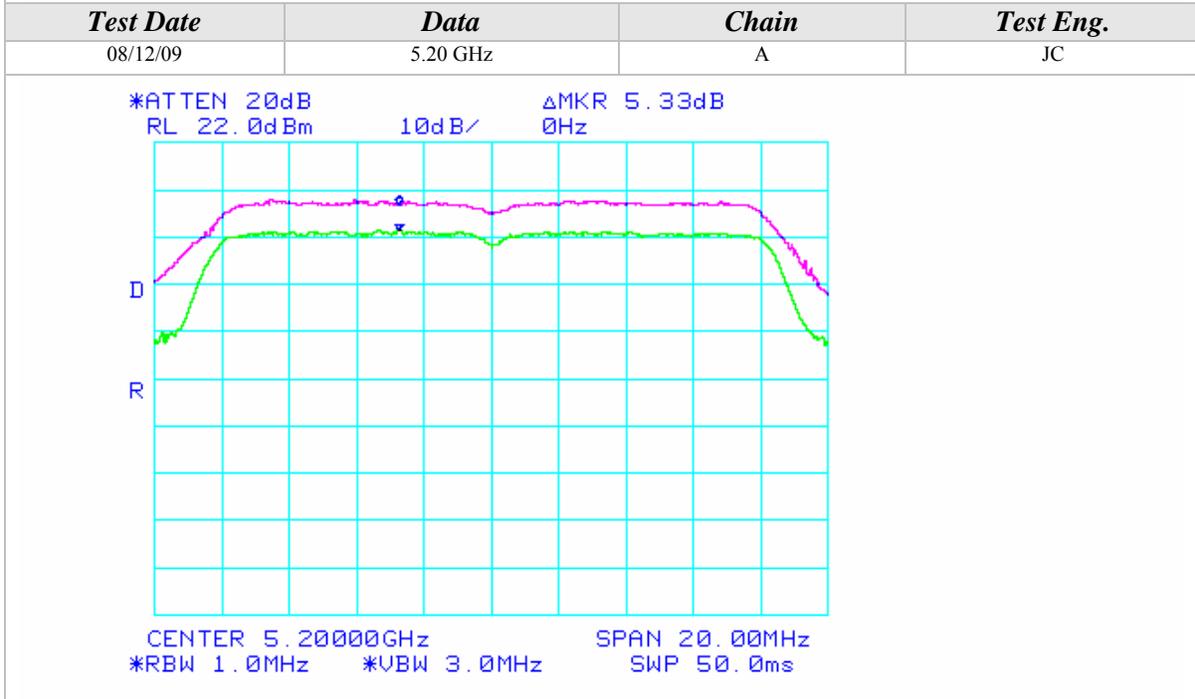
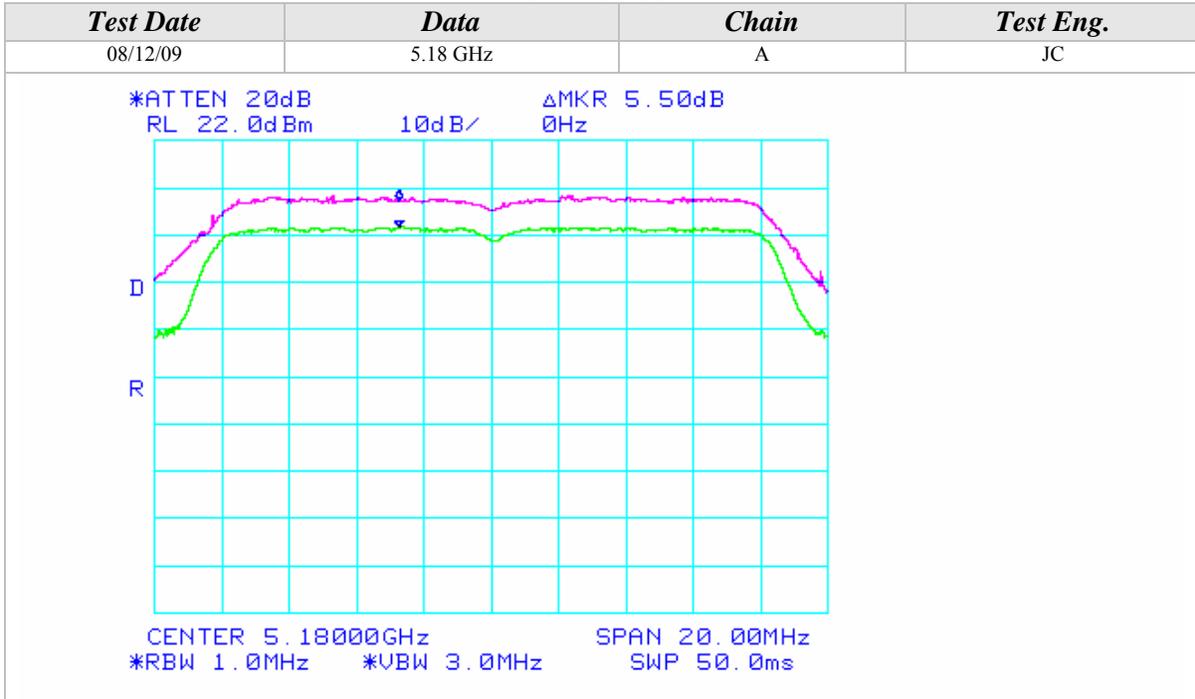
|                     |                                                                                                                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description:</b> | The ratio of the peak excursion of the modulation envelope to the peak transmit power shall not exceed 13dB across any 1 MHz bandwidth or the emissions bandwidth whichever is less.       |
| <b>Results:</b>     | See Data Sheet                                                                                                                                                                             |
| <b>Note:</b>        | Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. <ul style="list-style-type: none"><li>• 120VAC / 60 Hz.</li></ul> |

| <b>Peak Power Spectral Density Limits</b> |                    |
|-------------------------------------------|--------------------|
| <b>Frequency (MHz)</b>                    | <b>Limit (dBm)</b> |
| 5150-5350                                 | 13                 |
| 5470-5725                                 | 13                 |



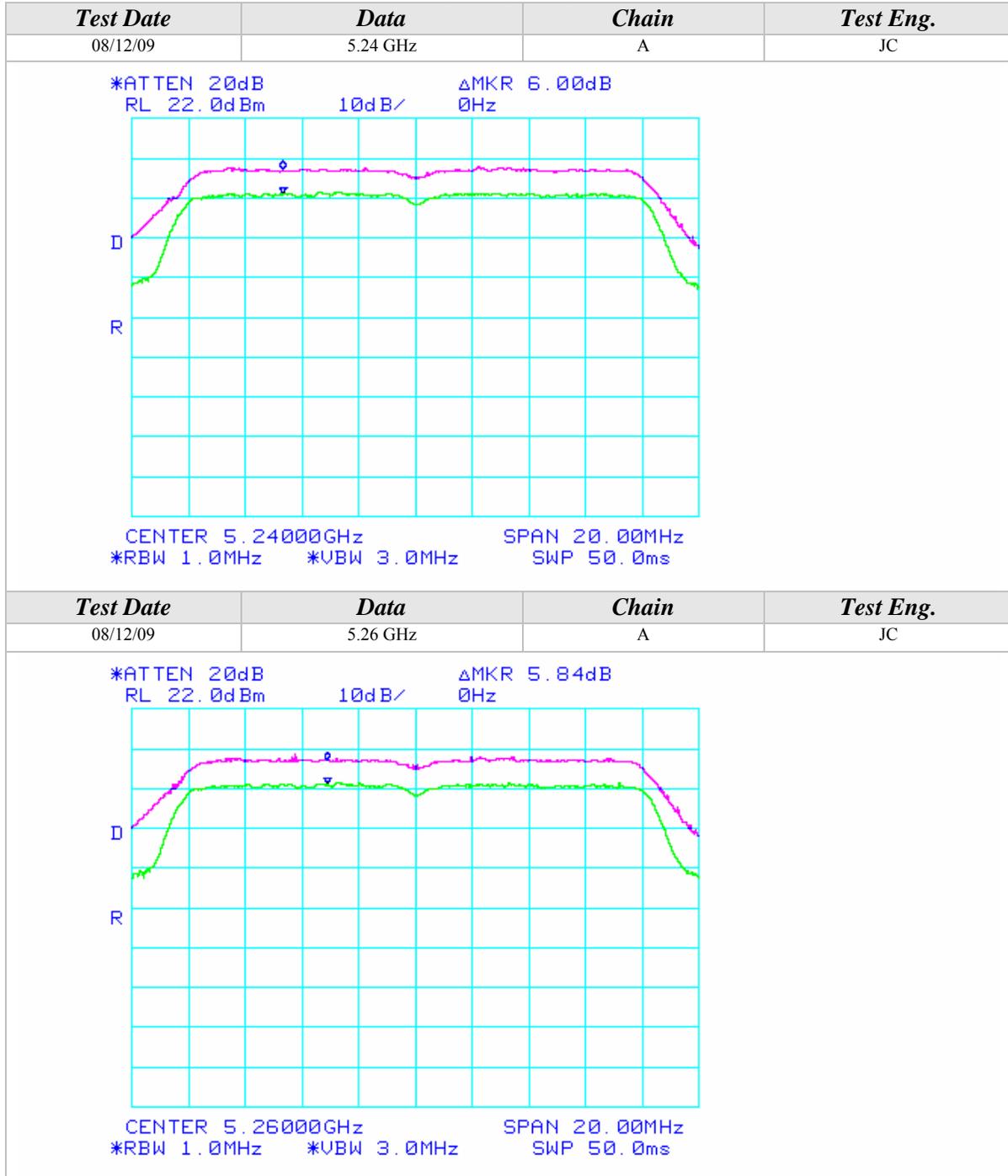
Peak Excursion (Continued)

802.11a Mode



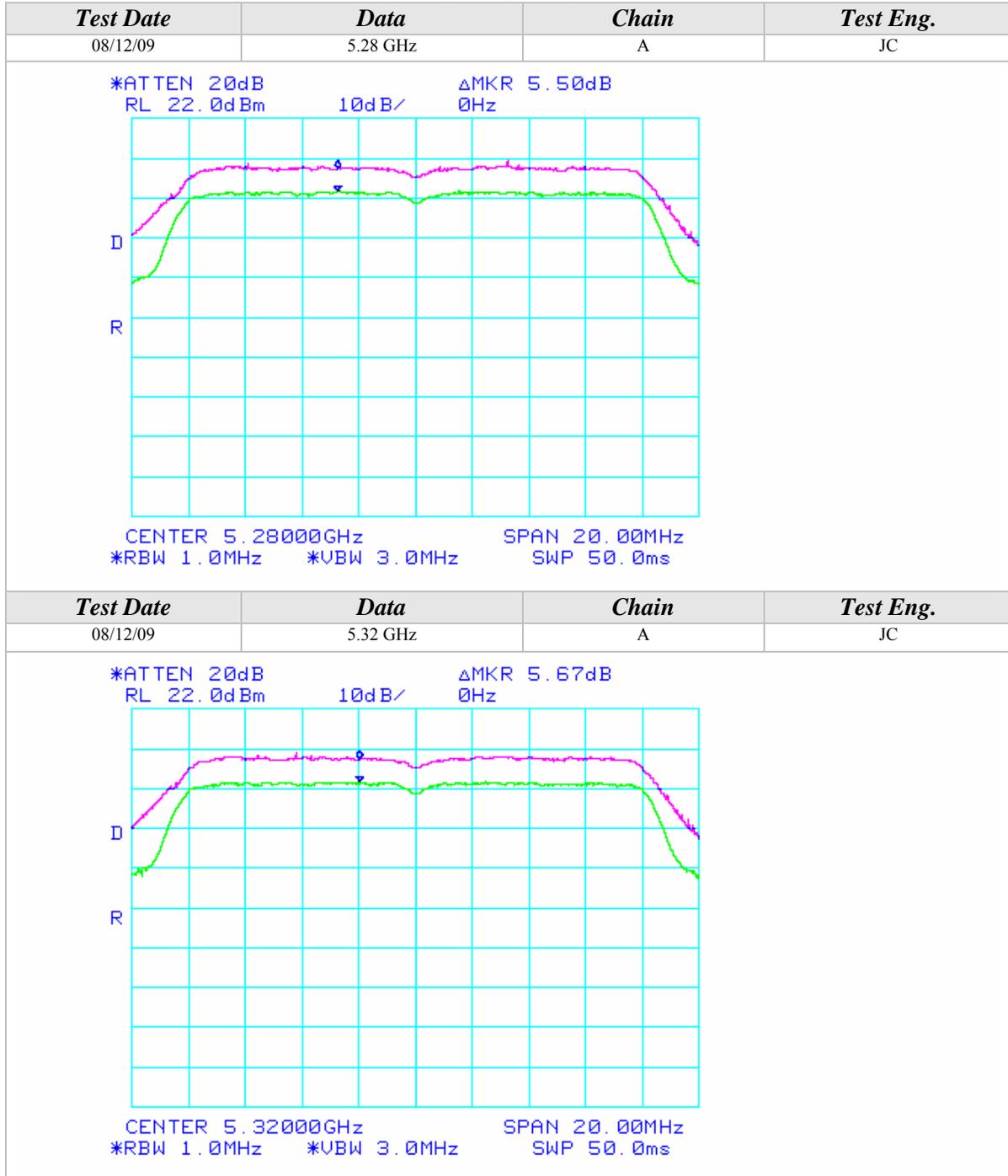
Peak Excursion (Continued)

802.11a Mode



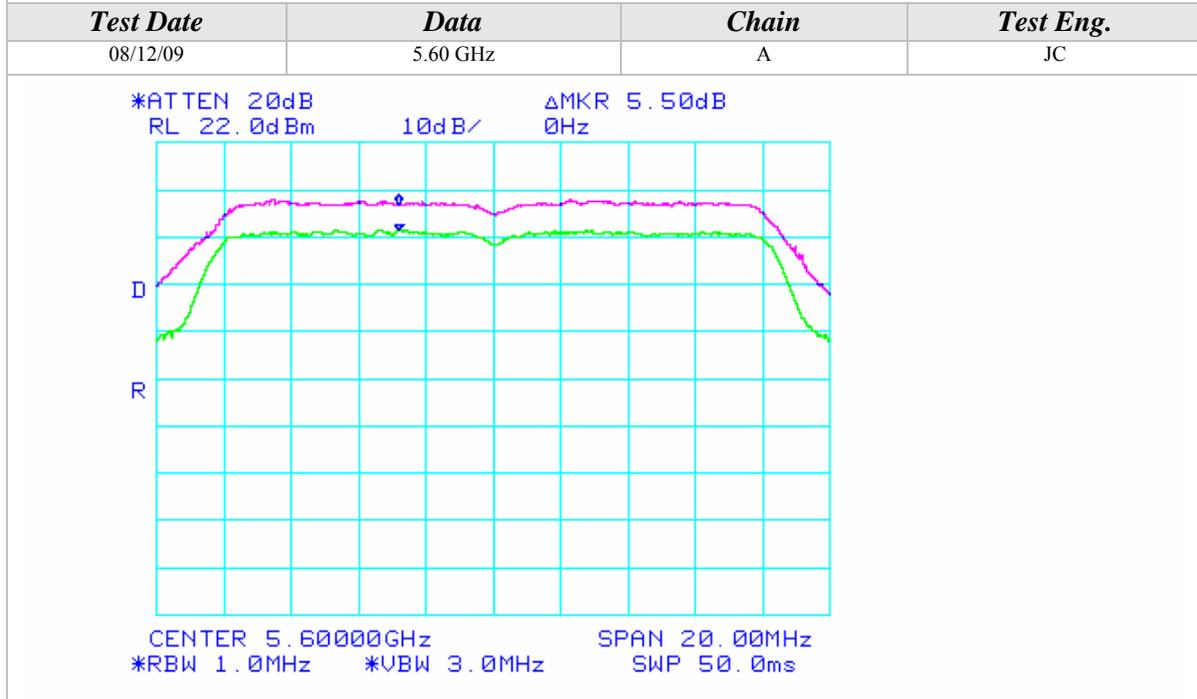
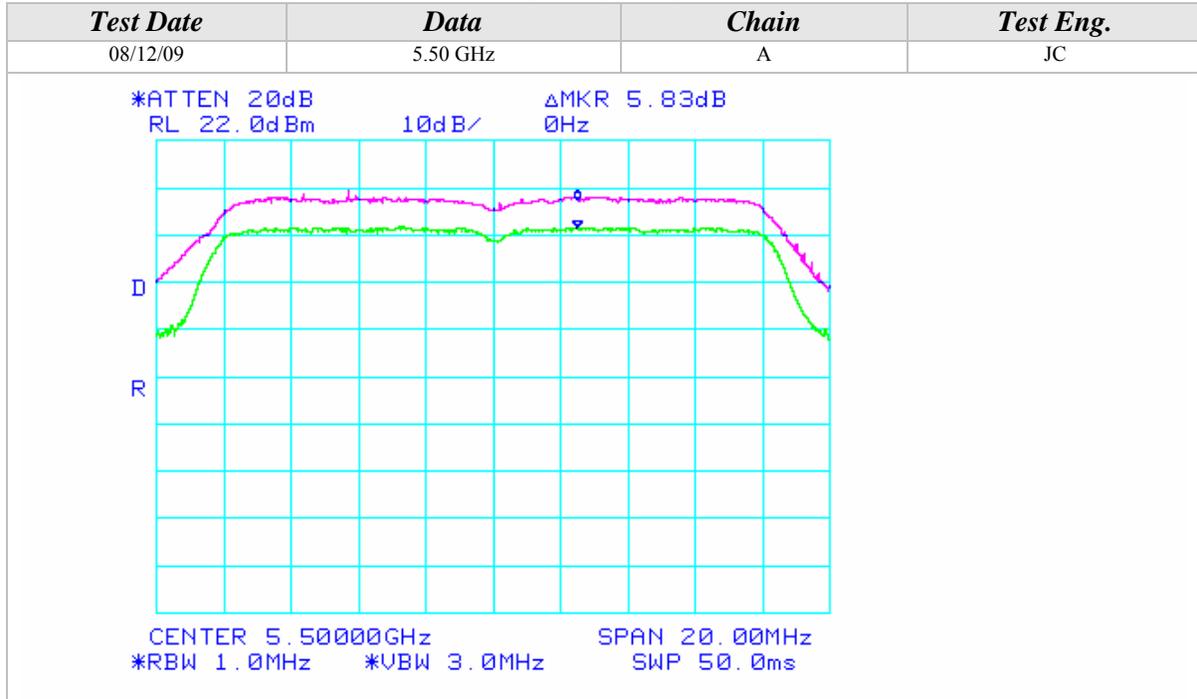
Peak Excursion (Continued)

802.11a Mode



Peak Excursion (Continued)

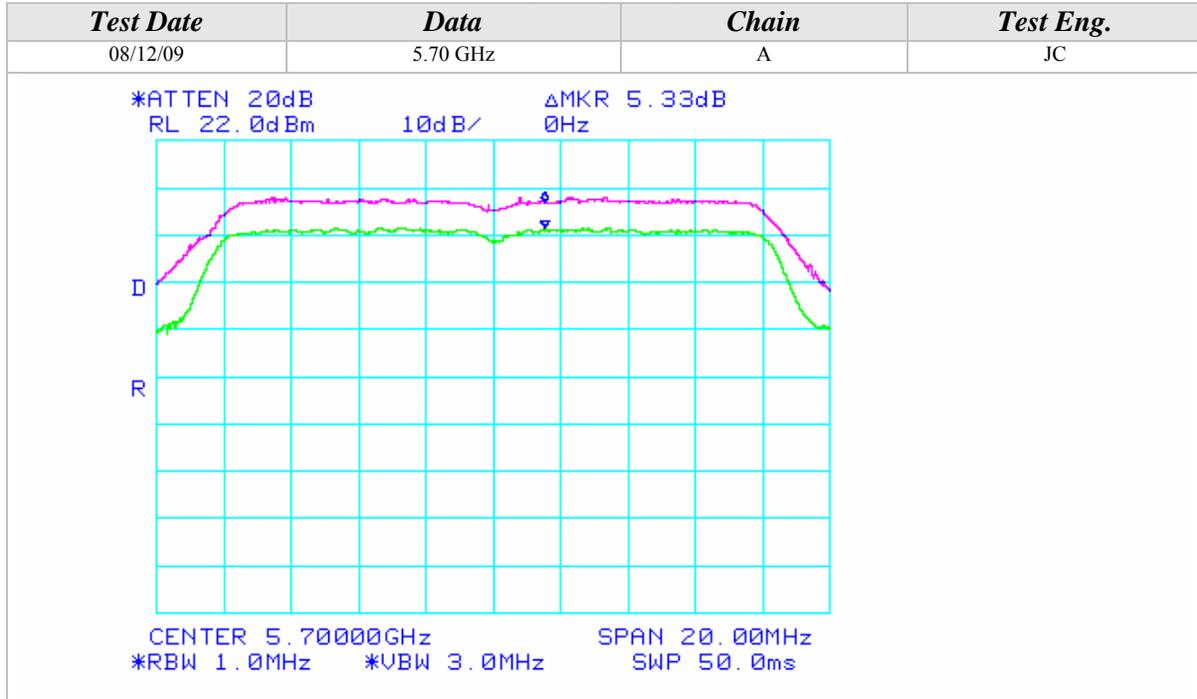
802.11a Mode





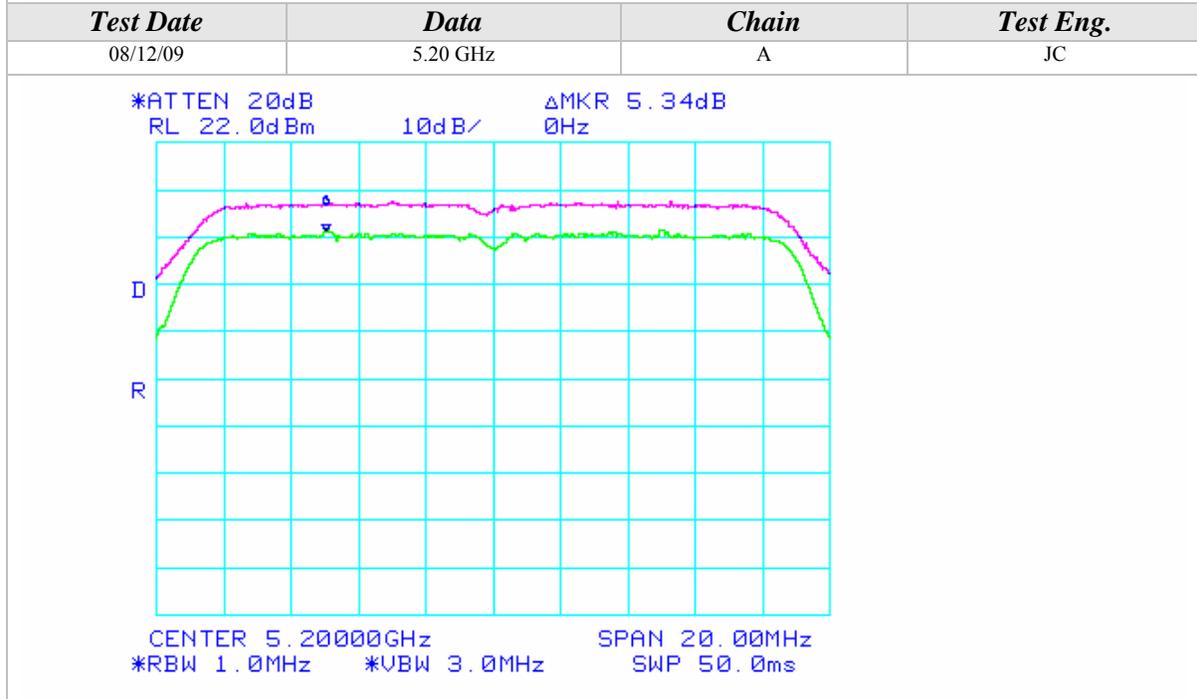
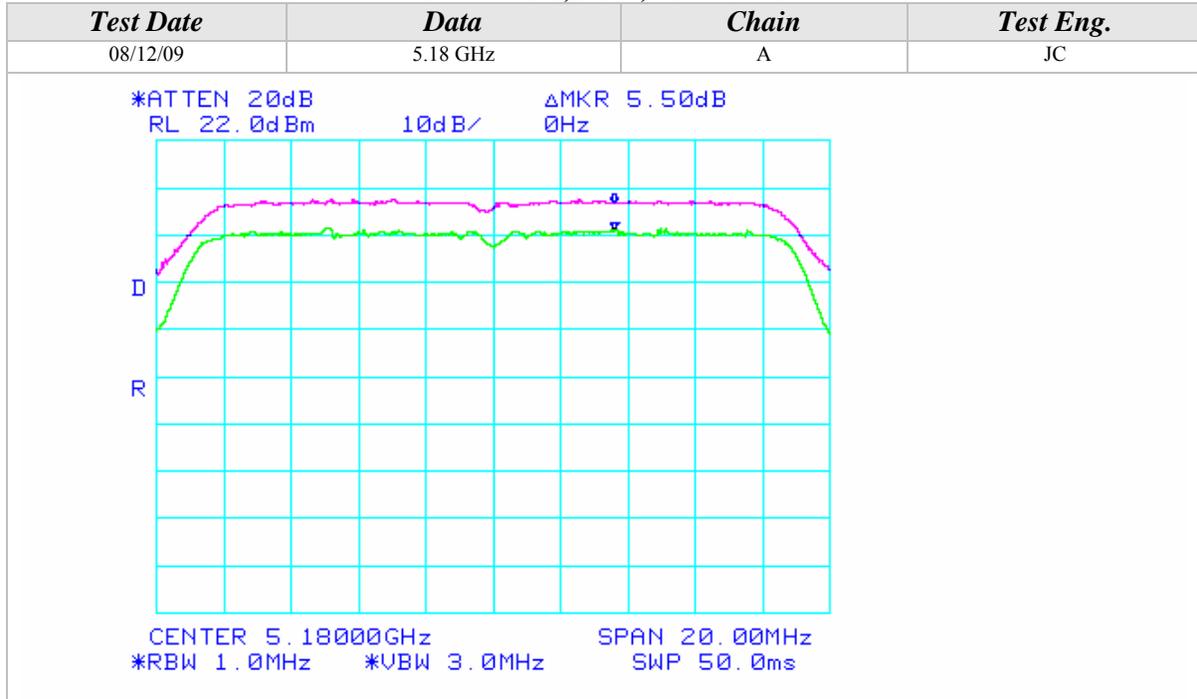
Peak Excursion (Continued)

802.11a Mode



Peak Excursion (Continued)

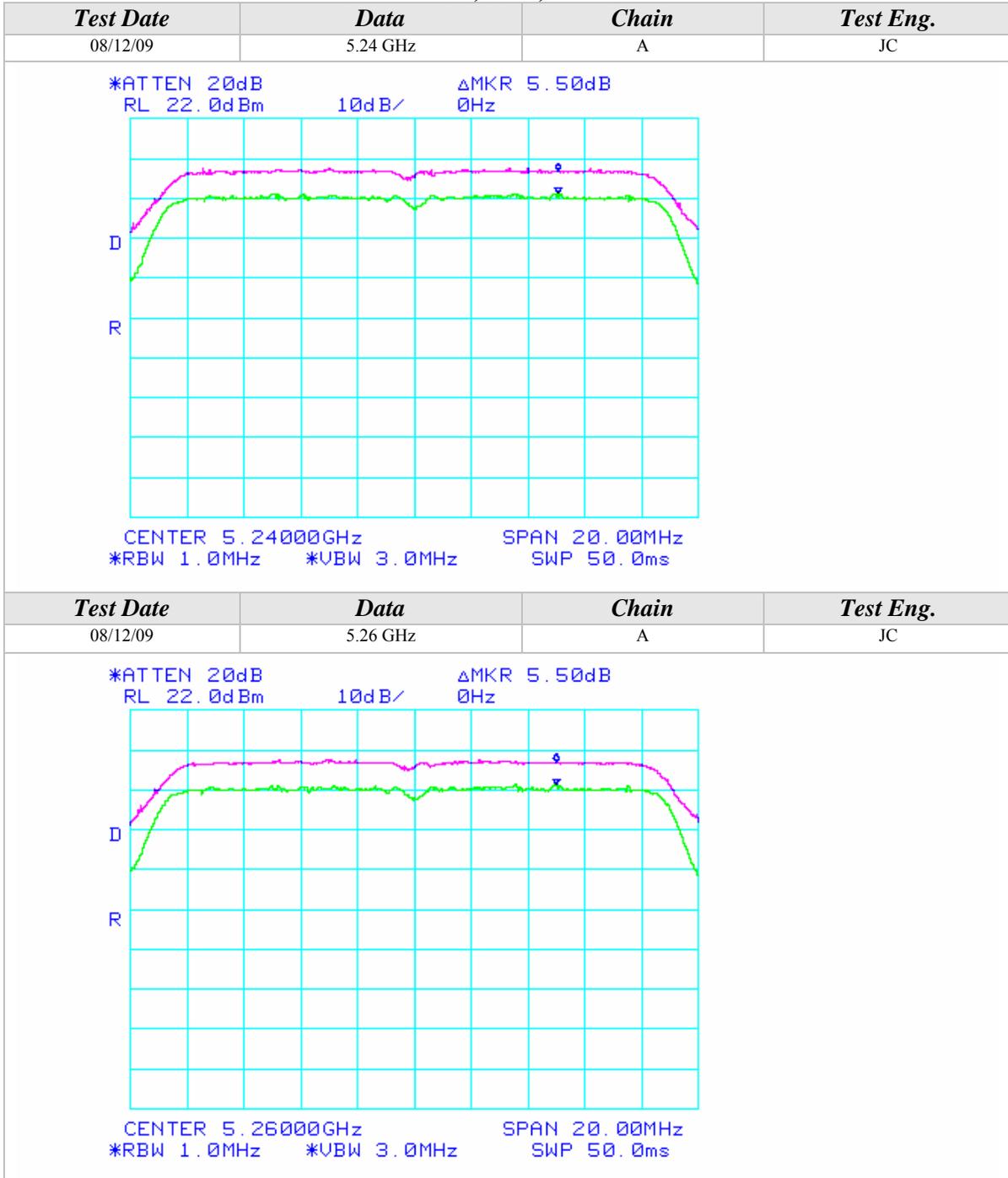
802.11n Mode, 5GHz, 20MHz Wide





Peak Excursion (Continued)

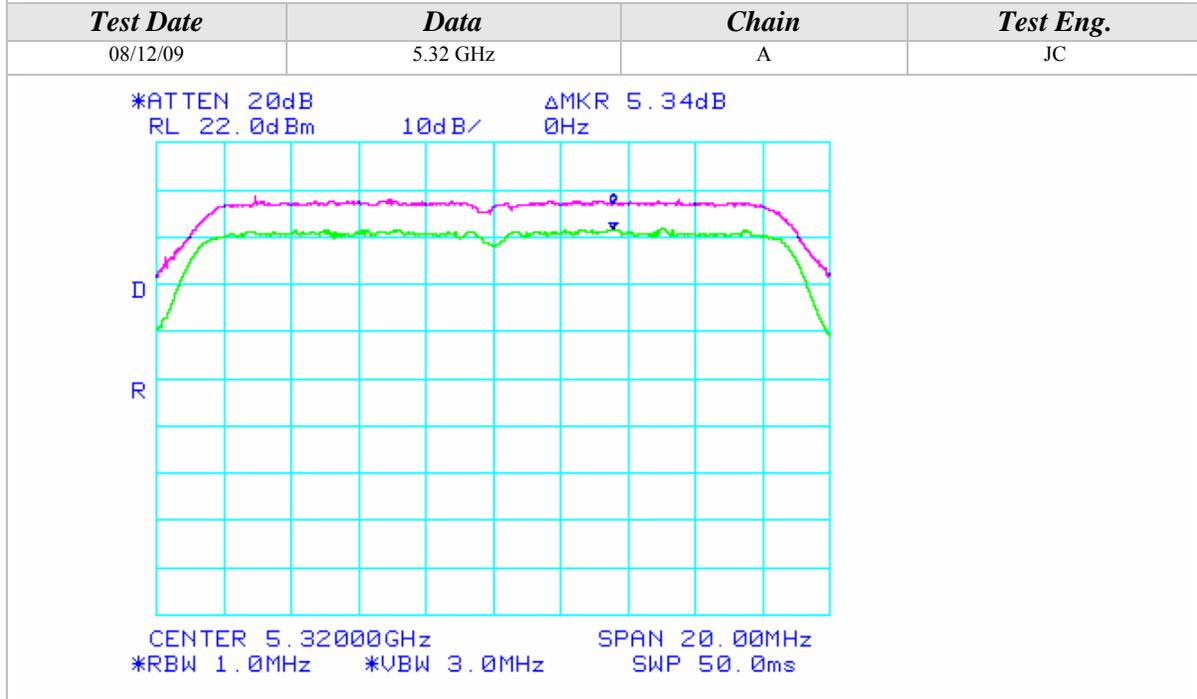
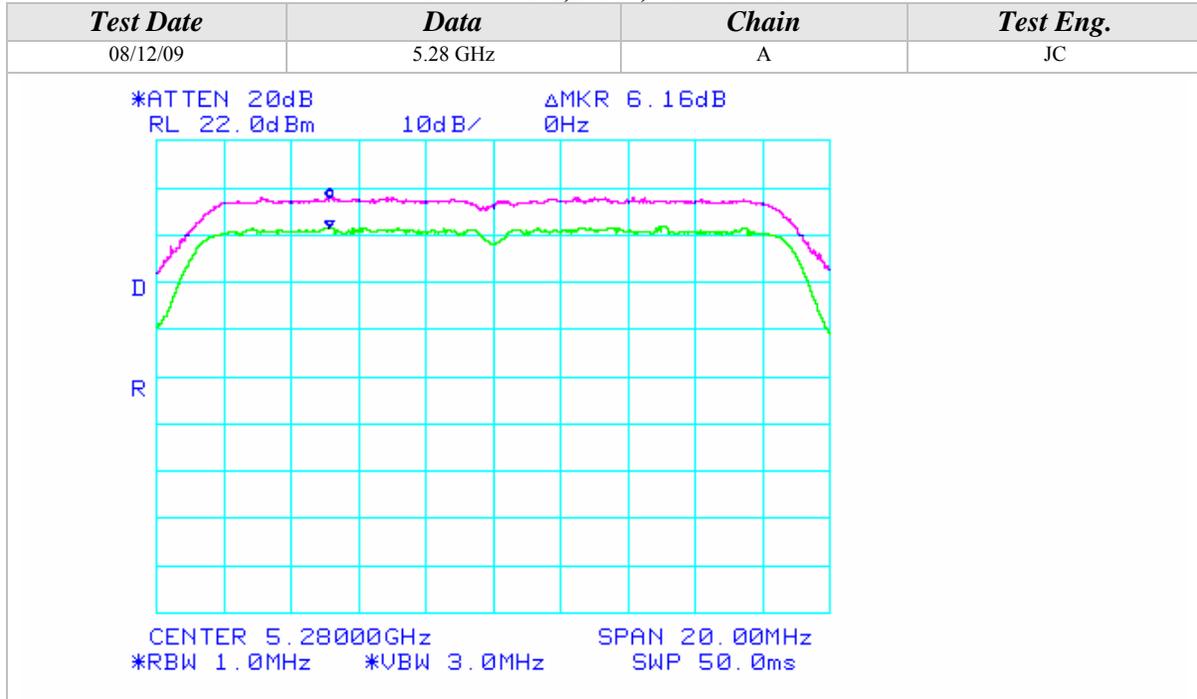
802.11n Mode, 5GHz, 20MHz Wide





Peak Excursion (Continued)

802.11n Mode, 5GHz, 20MHz Wide



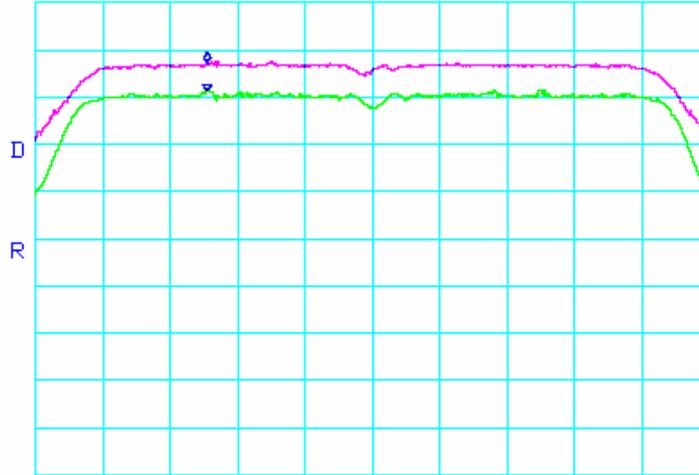


Peak Excursion (Continued)

802.11n Mode, 5GHz, 20MHz Wide

| <b>Test Date</b> | <b>Data</b> | <b>Chain</b> | <b>Test Eng.</b> |
|------------------|-------------|--------------|------------------|
| 08/12/09         | 5.50 GHz    | A            | JC               |

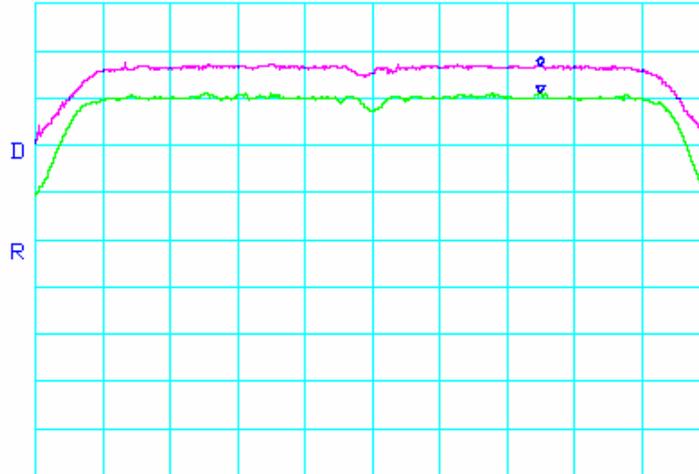
\*ATTEN 20dB                                    ΔMKR 6.00dB  
 RL 22.0dBm                                    10dB/                                    0Hz



CENTER 5.50000GHz                                    SPAN 20.00MHz  
 \*RBW 1.0MHz                                    \*VBW 3.0MHz                                    SWP 50.0ms

| <b>Test Date</b> | <b>Data</b> | <b>Chain</b> | <b>Test Eng.</b> |
|------------------|-------------|--------------|------------------|
| 08/12/09         | 5.60 GHz    | A            | JC               |

\*ATTEN 20dB                                    ΔMKR 5.66dB  
 RL 22.0dBm                                    10dB/                                    0Hz

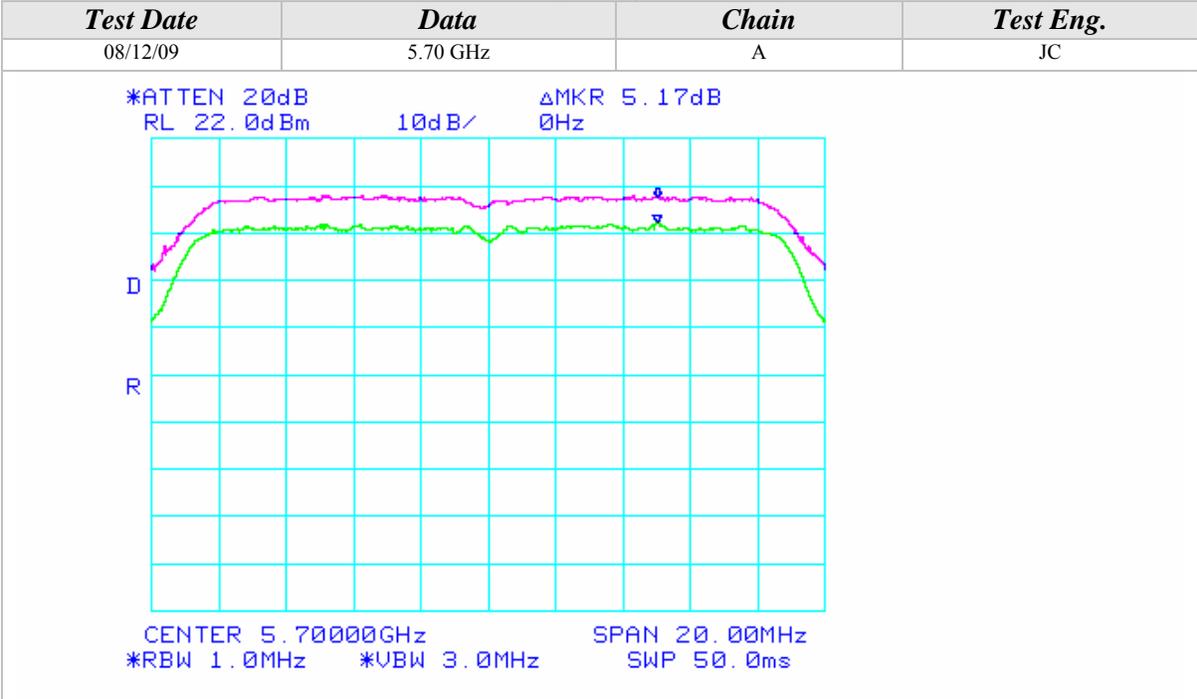


CENTER 5.60000GHz                                    SPAN 20.00MHz  
 \*RBW 1.0MHz                                    \*VBW 3.0MHz                                    SWP 50.0ms



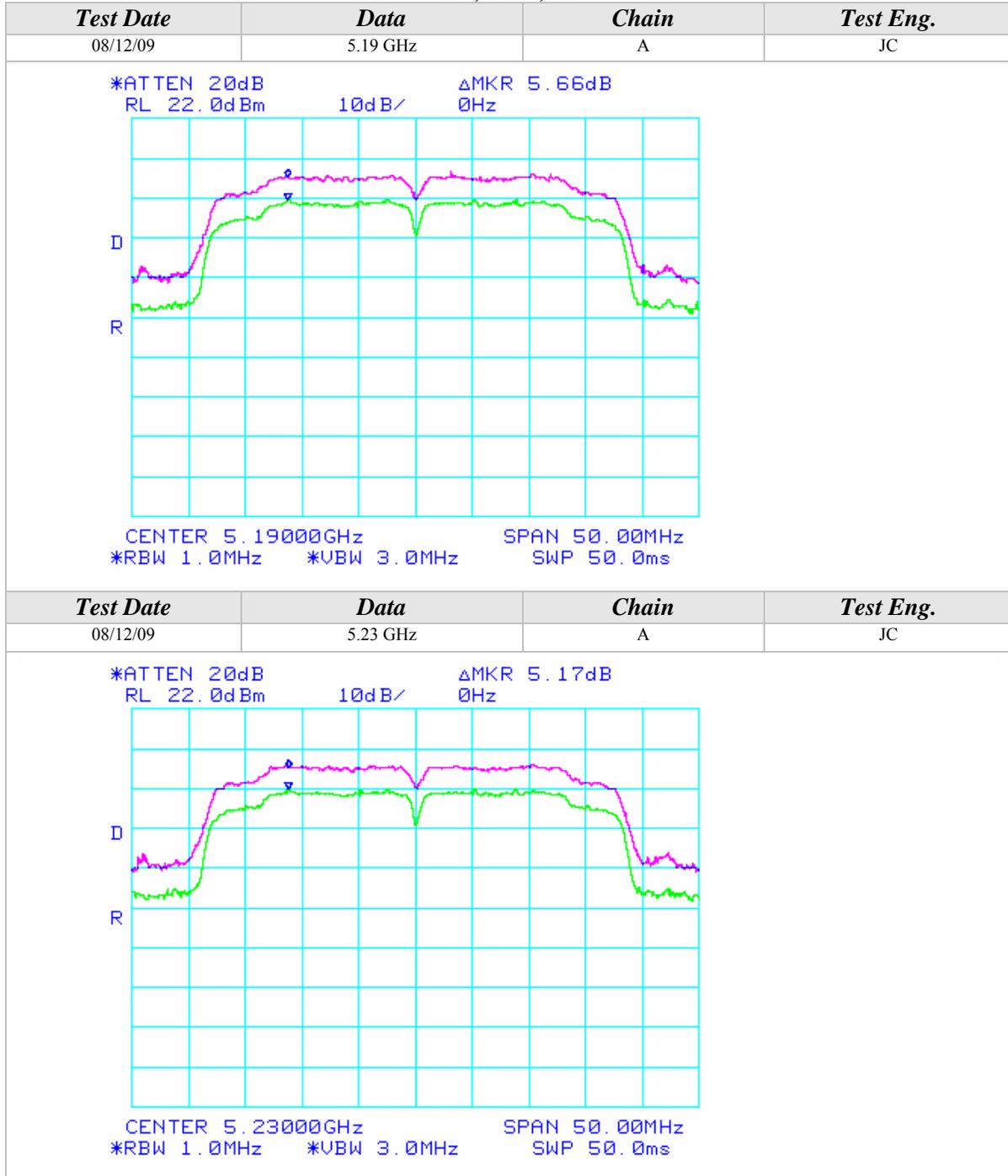
Peak Excursion (Continued)

802.11n Mode, 5GHz, 20MHz Wide



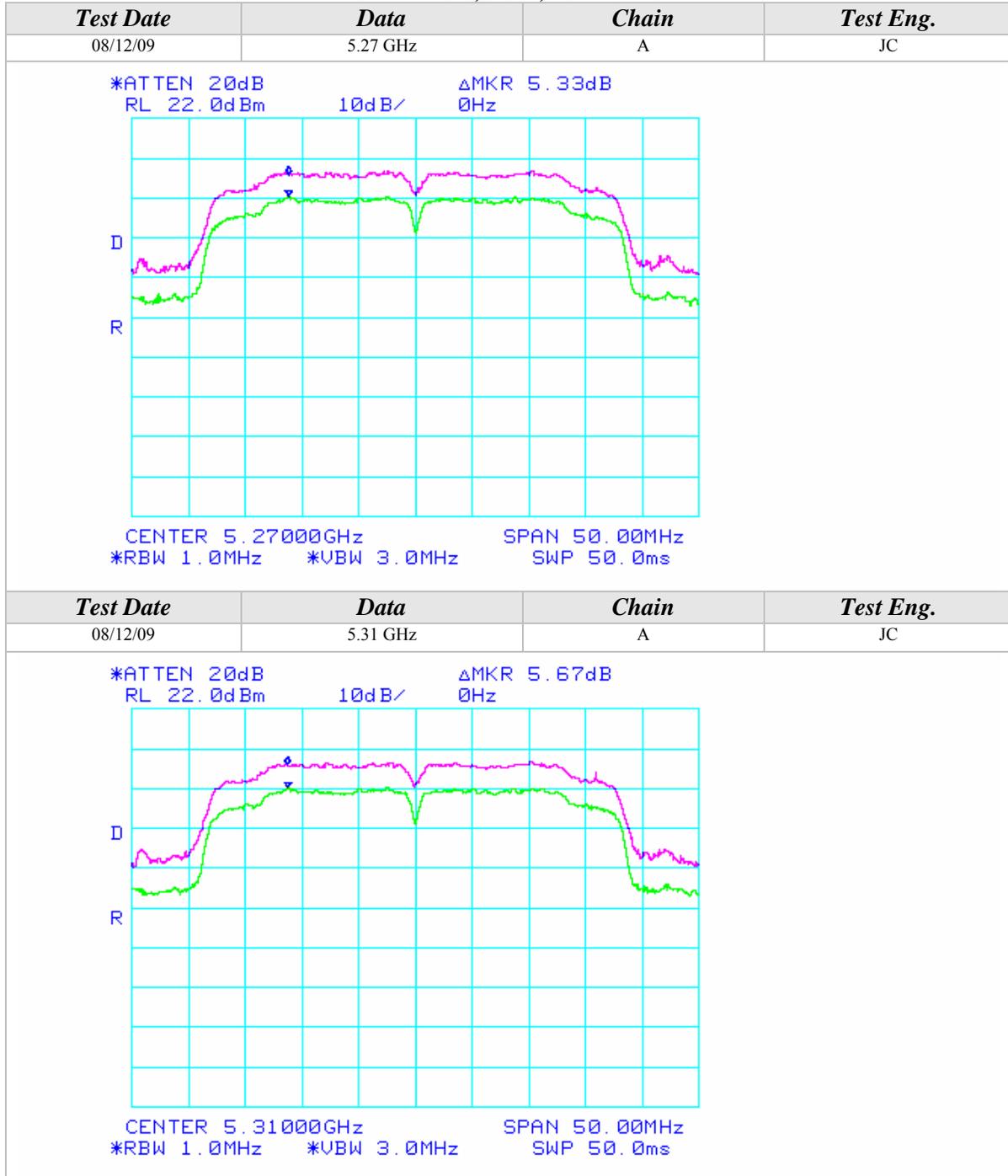
Peak Excursion (Continued)

802.11n Mode, 5GHz, 40MHz Wide



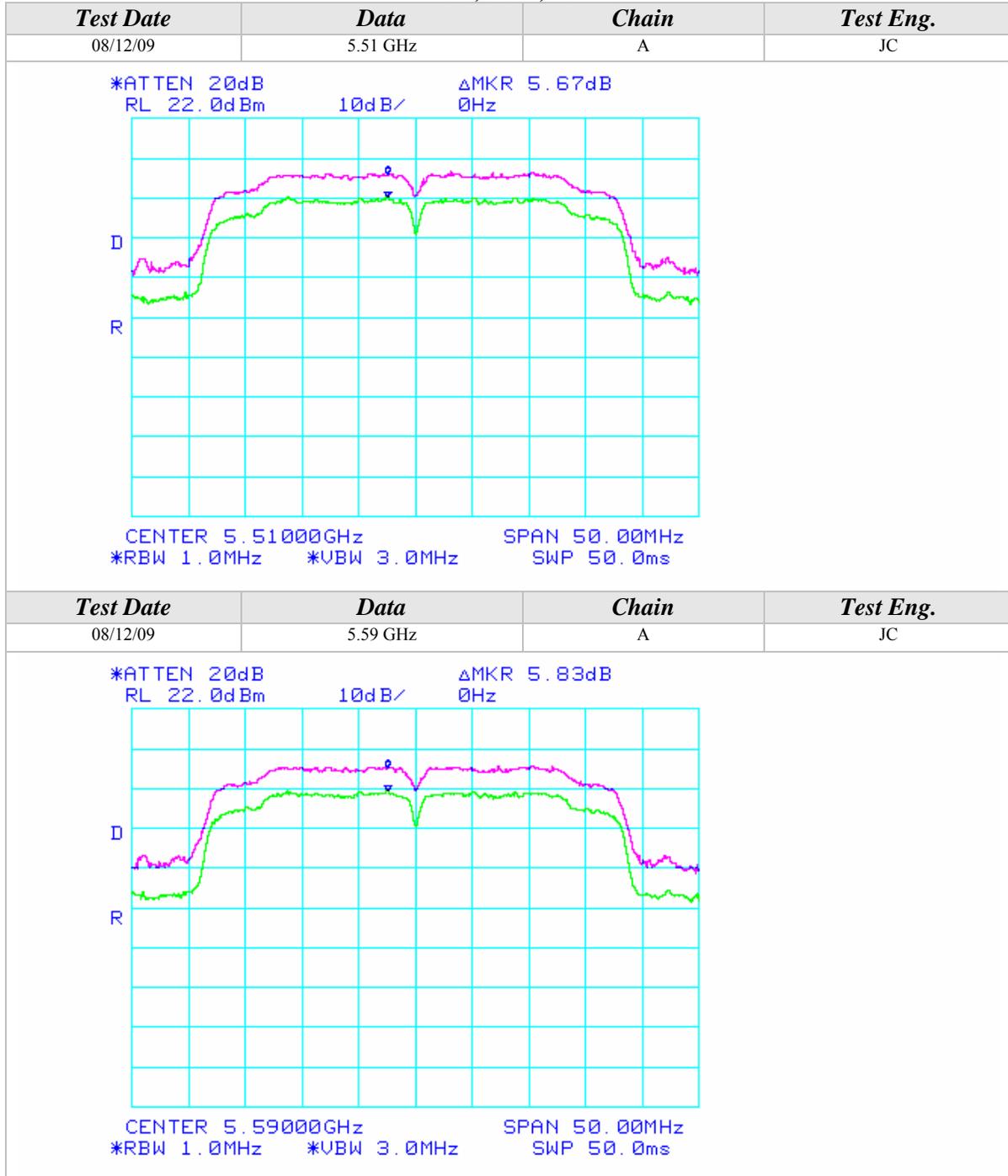
Peak Excursion (Continued)

802.11n Mode, 5GHz, 40MHz Wide



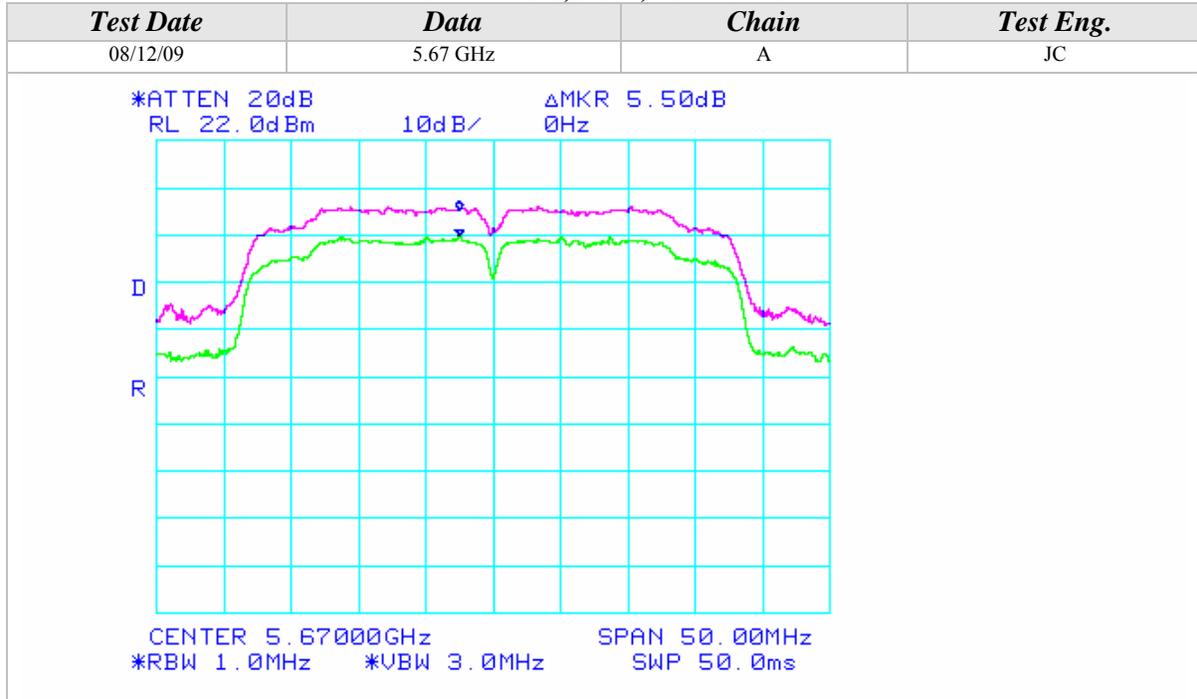
Peak Excursion (Continued)

802.11n Mode, 5GHz, 40MHz Wide



Peak Excursion (Continued)

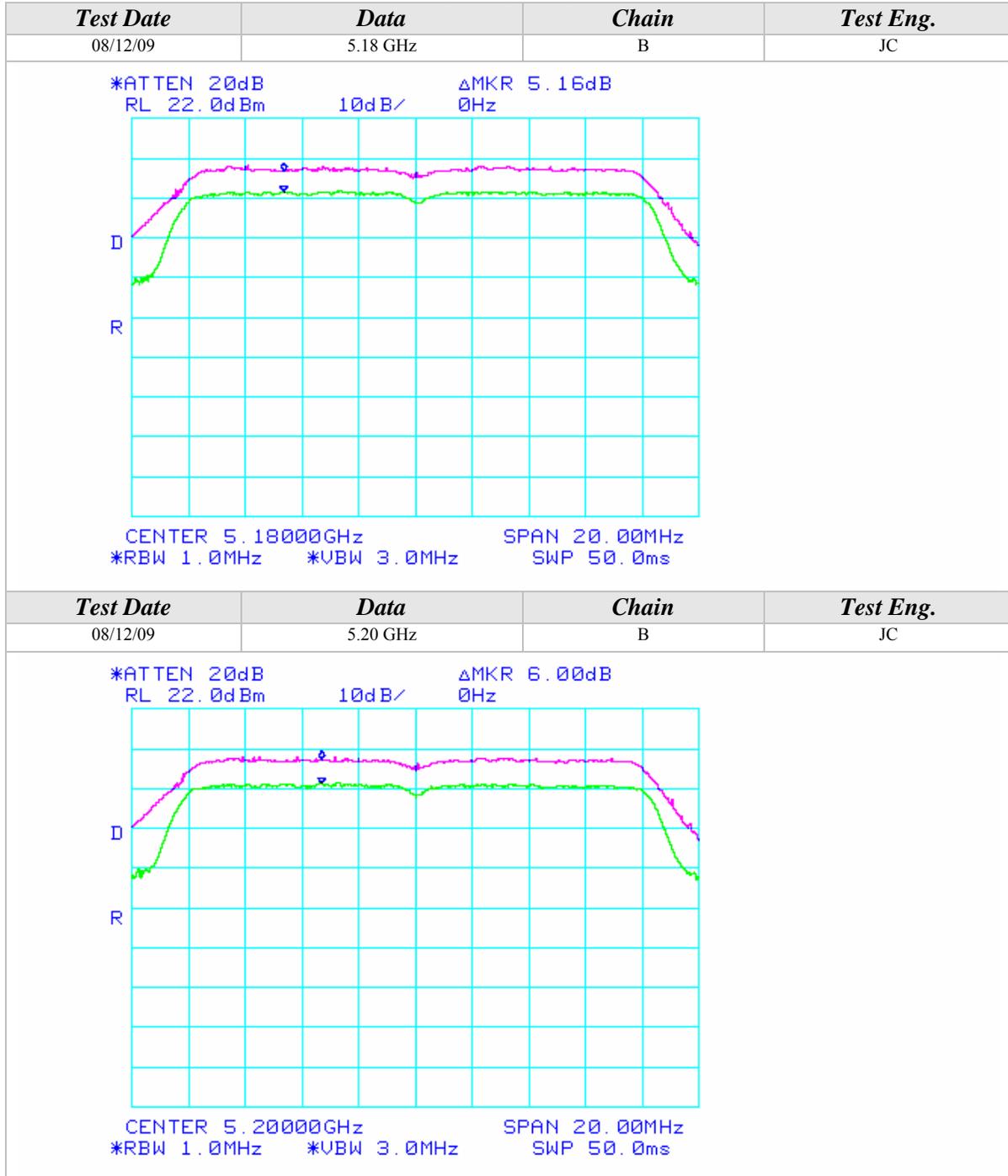
802.11n Mode, 5GHz, 40MHz Wide





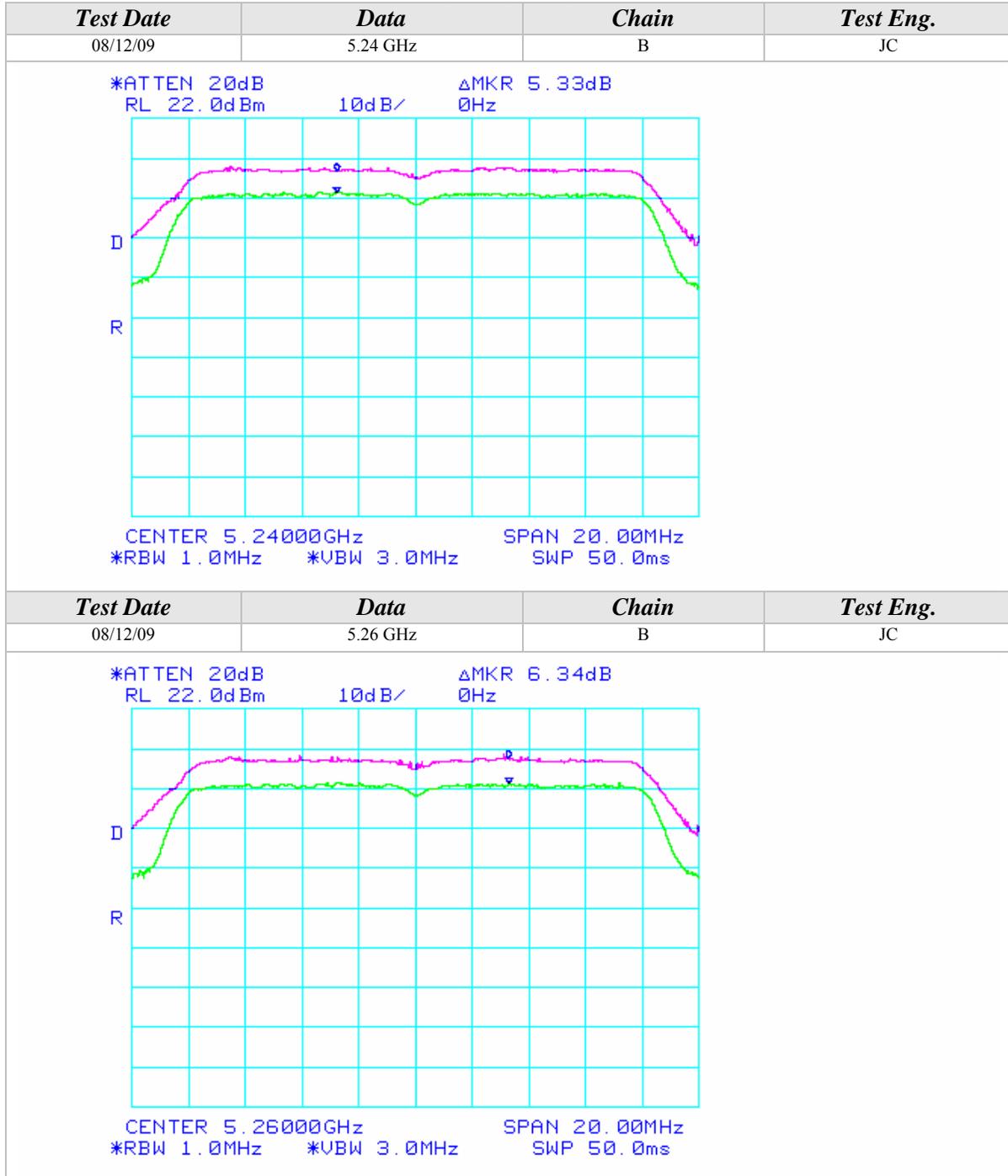
Peak Excursion (Continued)

802.11a Mode



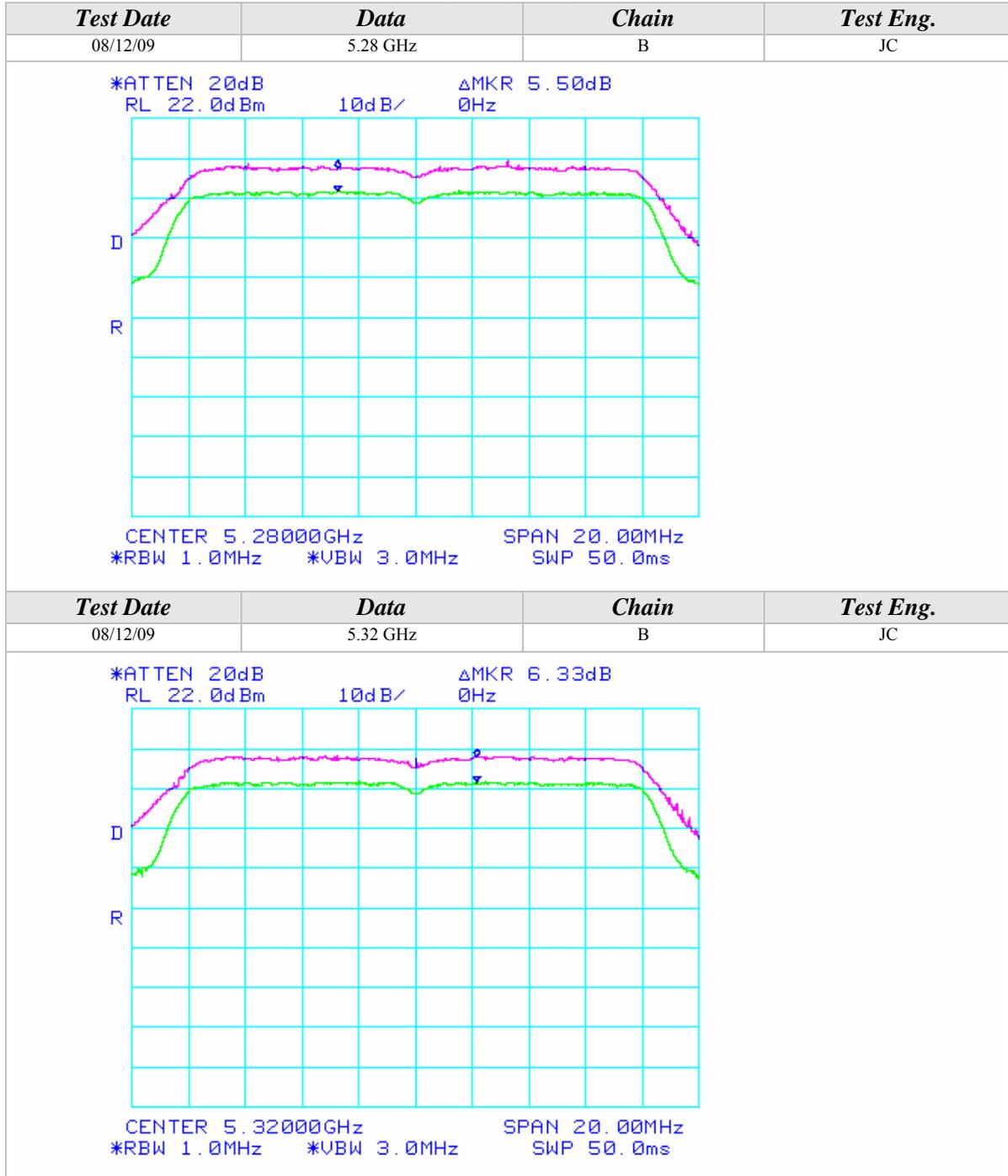
Peak Excursion (Continued)

802.11a Mode



Peak Excursion (Continued)

802.11a Mode





Peak Excursion (Continued)

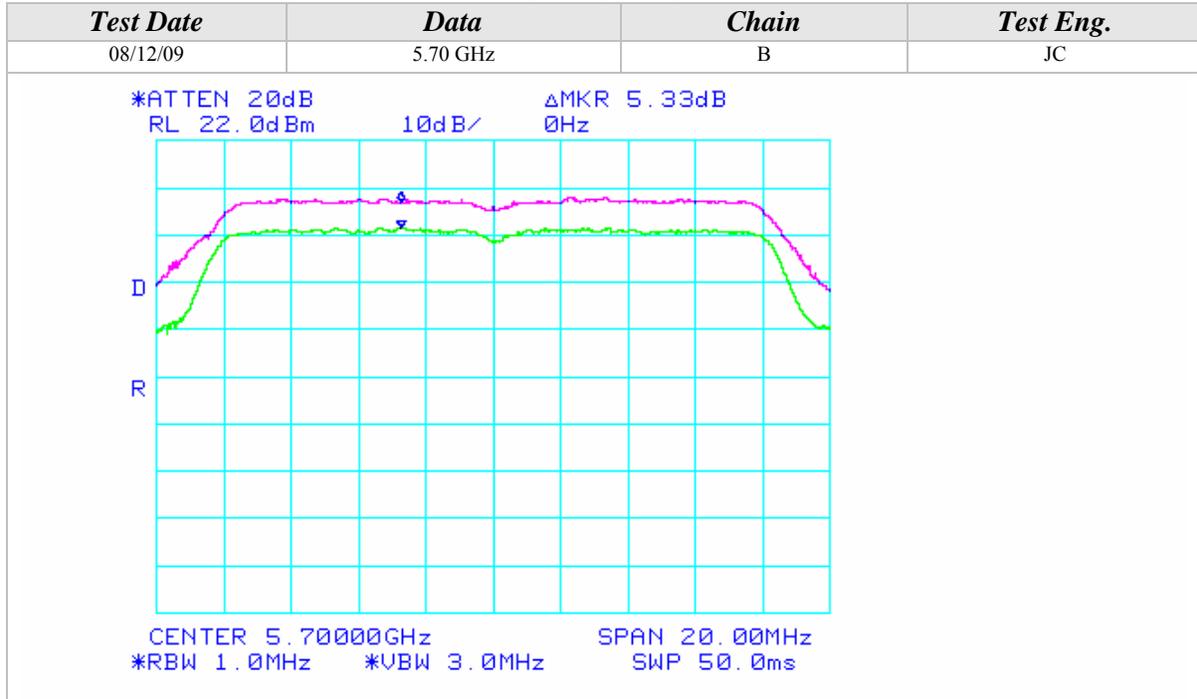
802.11a Mode

| Test Date                                                                                                                                                                                                                                                                                                                                                                                                         | Data     | Chain | Test Eng. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-----------|
| 08/12/09                                                                                                                                                                                                                                                                                                                                                                                                          | 5.50 GHz | B     | JC        |
| <p>*ATTEN 20dB                                          ΔMKR 5.50dB<br/>           RL 22.0dBm                                          10dB/                                          0Hz</p> <p>CENTER 5.50000GHz                                          SPAN 20.00MHz<br/>           *RBW 1.0MHz                                          *VBW 3.0MHz                                          SWP 50.0ms</p> |          |       |           |
| Test Date                                                                                                                                                                                                                                                                                                                                                                                                         | Data     | Chain | Test Eng. |
| 08/12/09                                                                                                                                                                                                                                                                                                                                                                                                          | 5.60 GHz | B     | JC        |
| <p>*ATTEN 20dB                                          ΔMKR 5.16dB<br/>           RL 22.0dBm                                          10dB/                                          0Hz</p> <p>CENTER 5.60000GHz                                          SPAN 20.00MHz<br/>           *RBW 1.0MHz                                          *VBW 3.0MHz                                          SWP 50.0ms</p> |          |       |           |



### Peak Excursion (Continued)

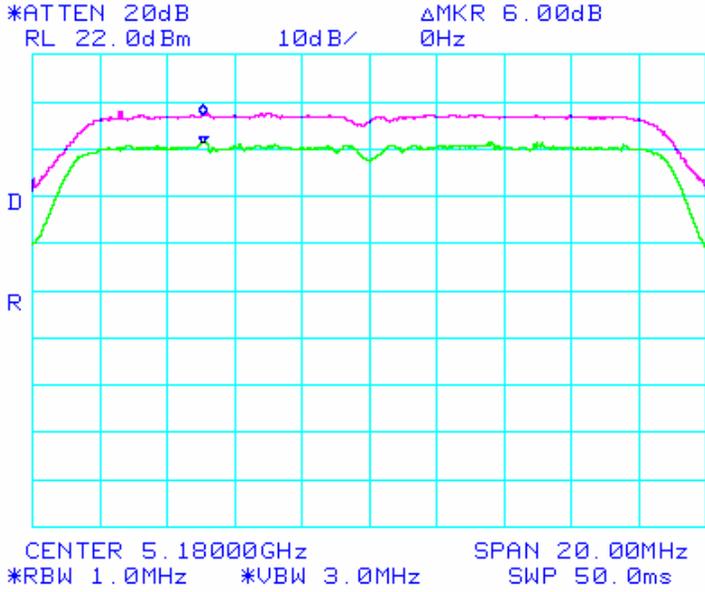
#### 802.11a Mode



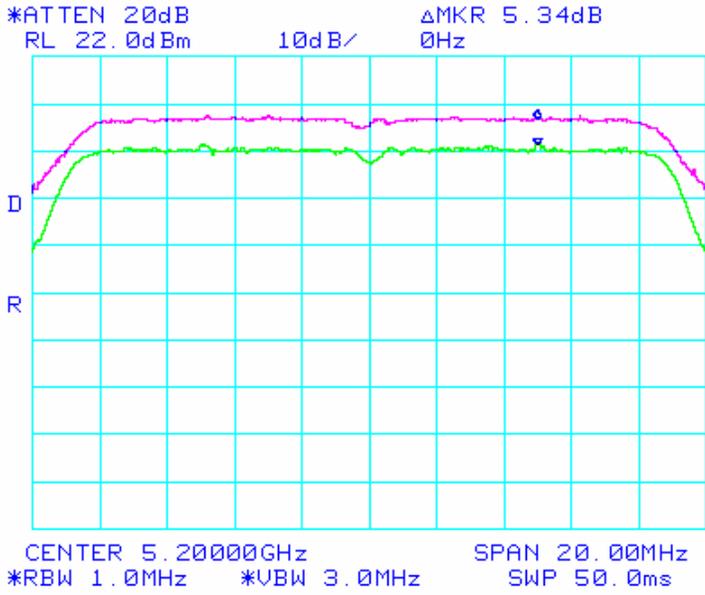
Peak Excursion (Continued)

802.11n Mode, 5GHz, 20MHz Wide

| Test Date | Data     | Chain | Test Eng. |
|-----------|----------|-------|-----------|
| 08/12/09  | 5.18 GHz | B     | JC        |



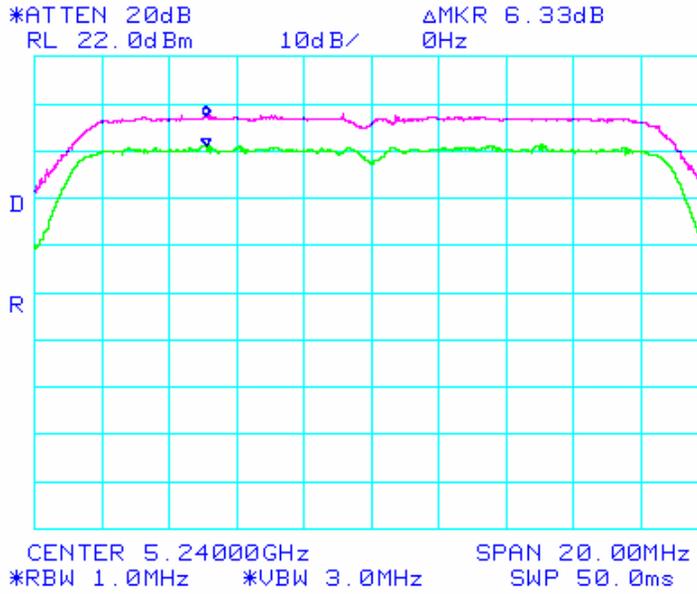
| Test Date | Data     | Chain | Test Eng. |
|-----------|----------|-------|-----------|
| 08/12/09  | 5.20 GHz | B     | JC        |



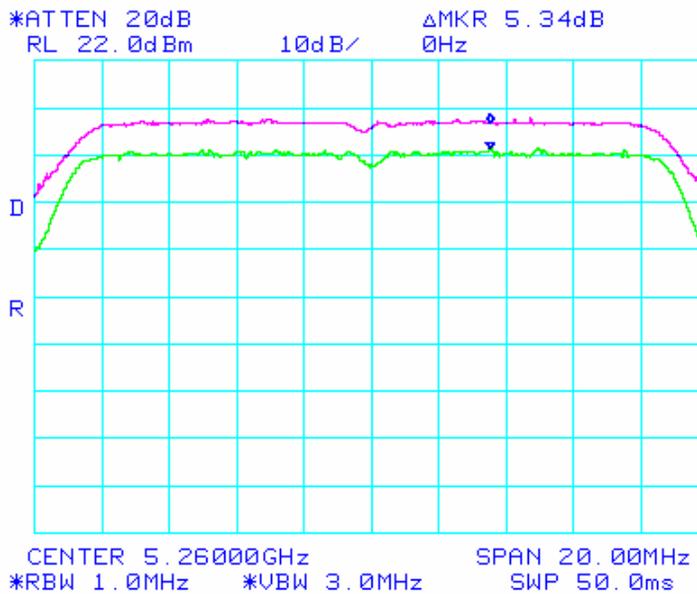
Peak Excursion (Continued)

802.11n Mode, 5GHz, 20MHz Wide

| Test Date | Data     | Chain | Test Eng. |
|-----------|----------|-------|-----------|
| 08/12/09  | 5.24 GHz | B     | JC        |



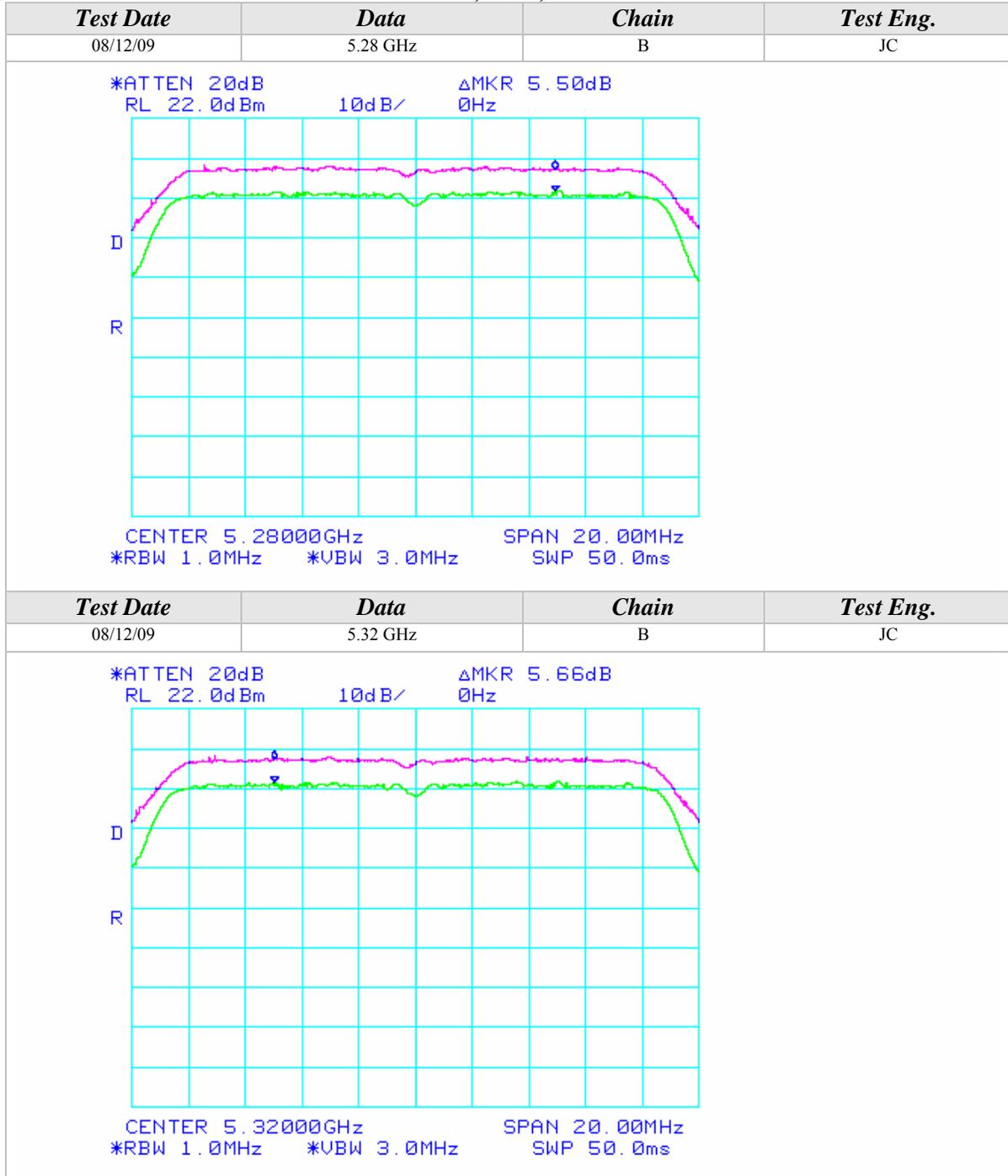
| Test Date | Data     | Chain | Test Eng. |
|-----------|----------|-------|-----------|
| 08/12/09  | 5.26 GHz | B     | JC        |





### Peak Excursion (Continued)

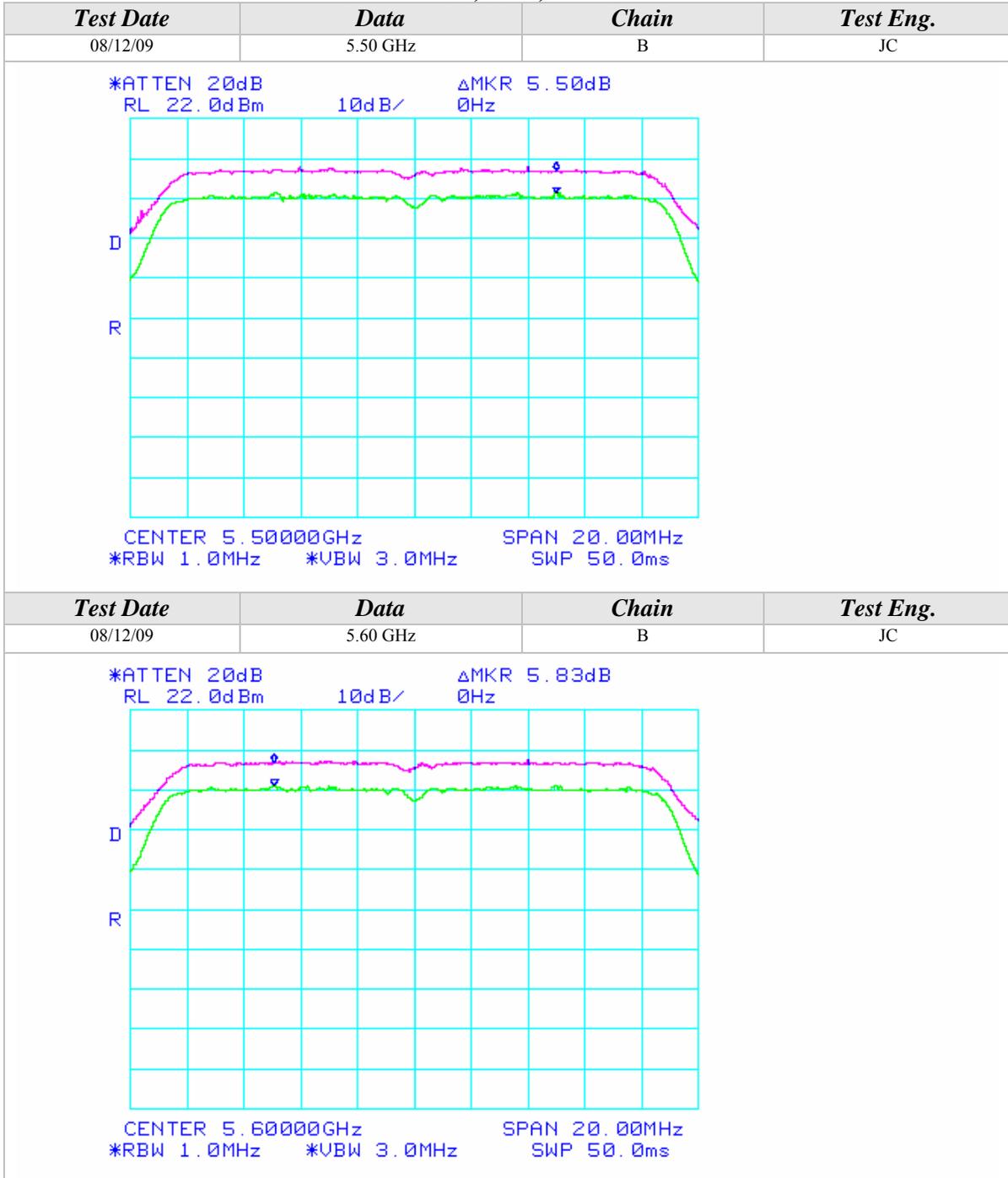
#### 802.11n Mode, 5GHz, 20MHz Wide





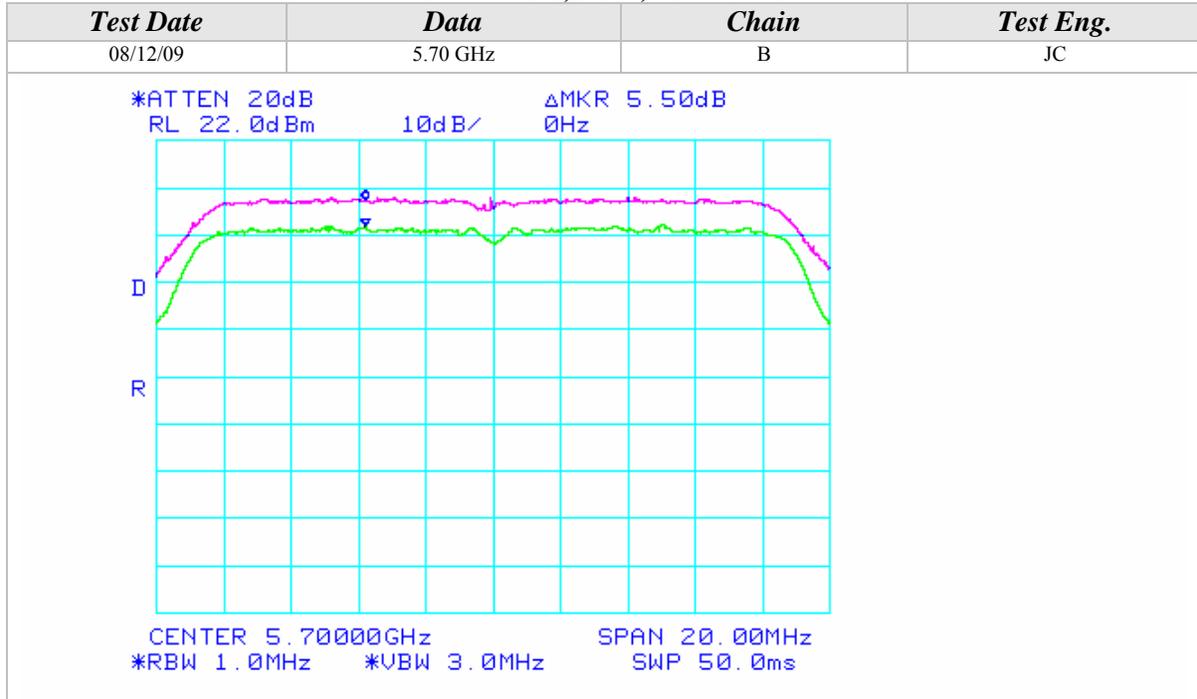
Peak Excursion (Continued)

802.11n Mode, 5GHz, 20MHz Wide



Peak Excursion (Continued)

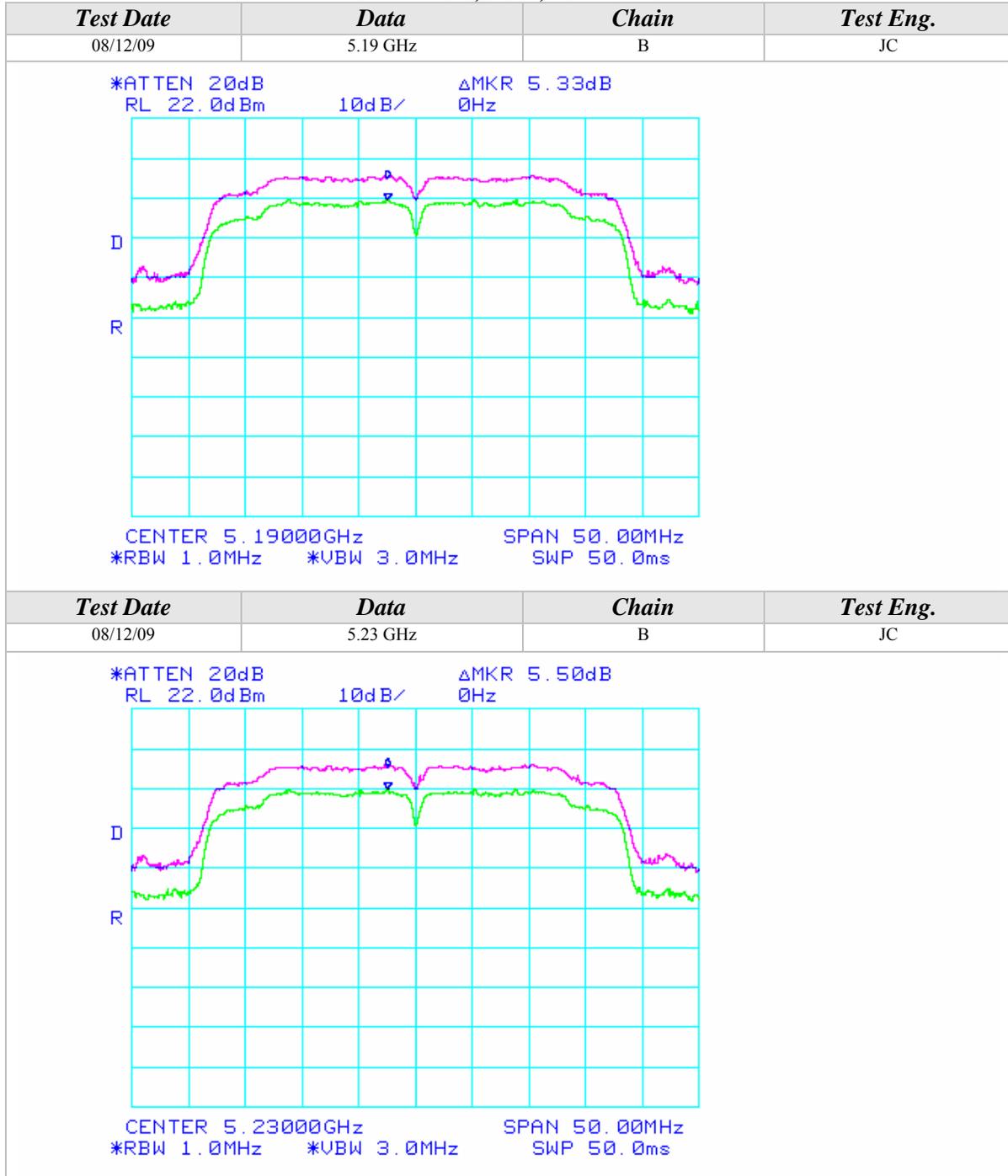
802.11n Mode, 5GHz, 20MHz Wide





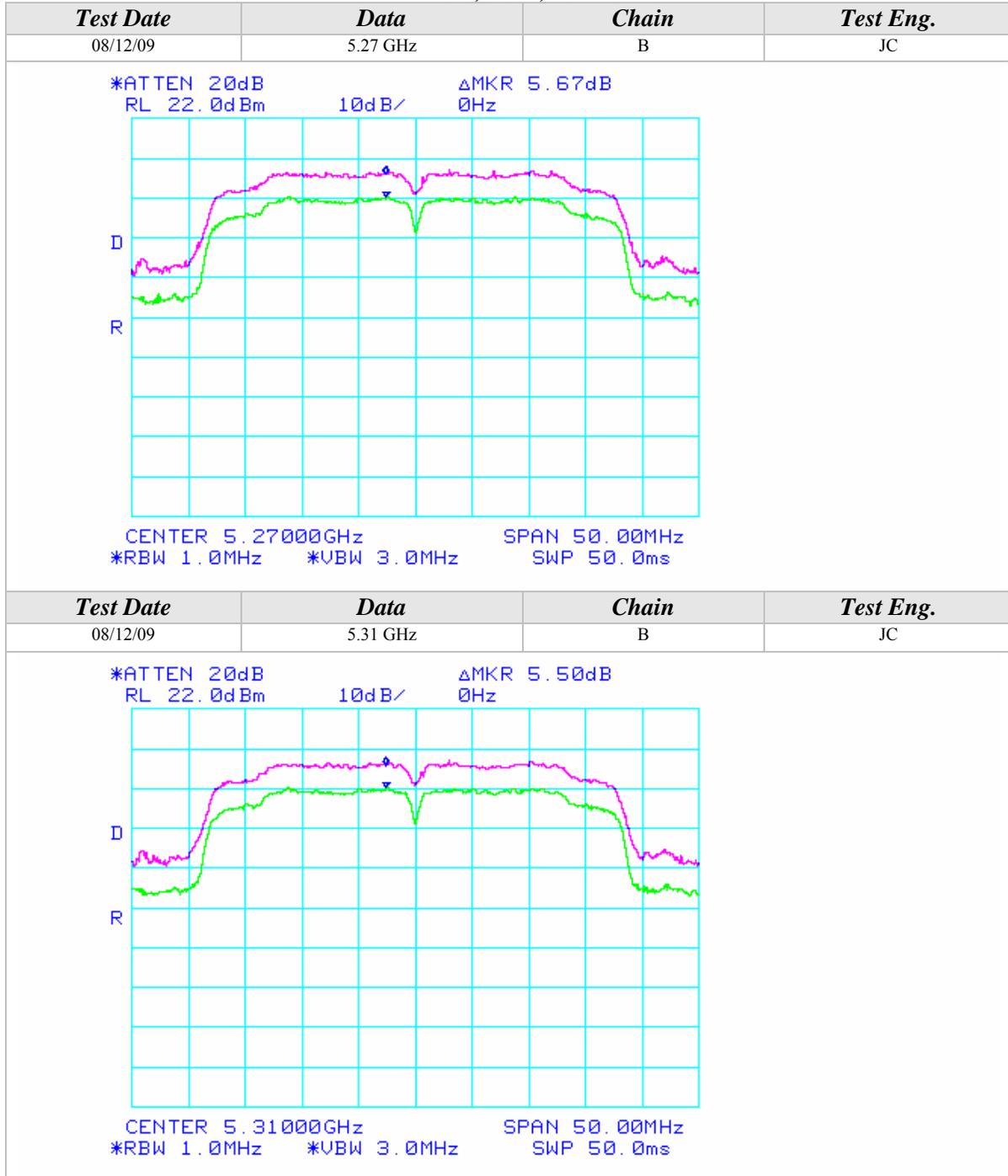
Peak Excursion (Continued)

802.11n Mode, 5GHz, 40MHz Wide



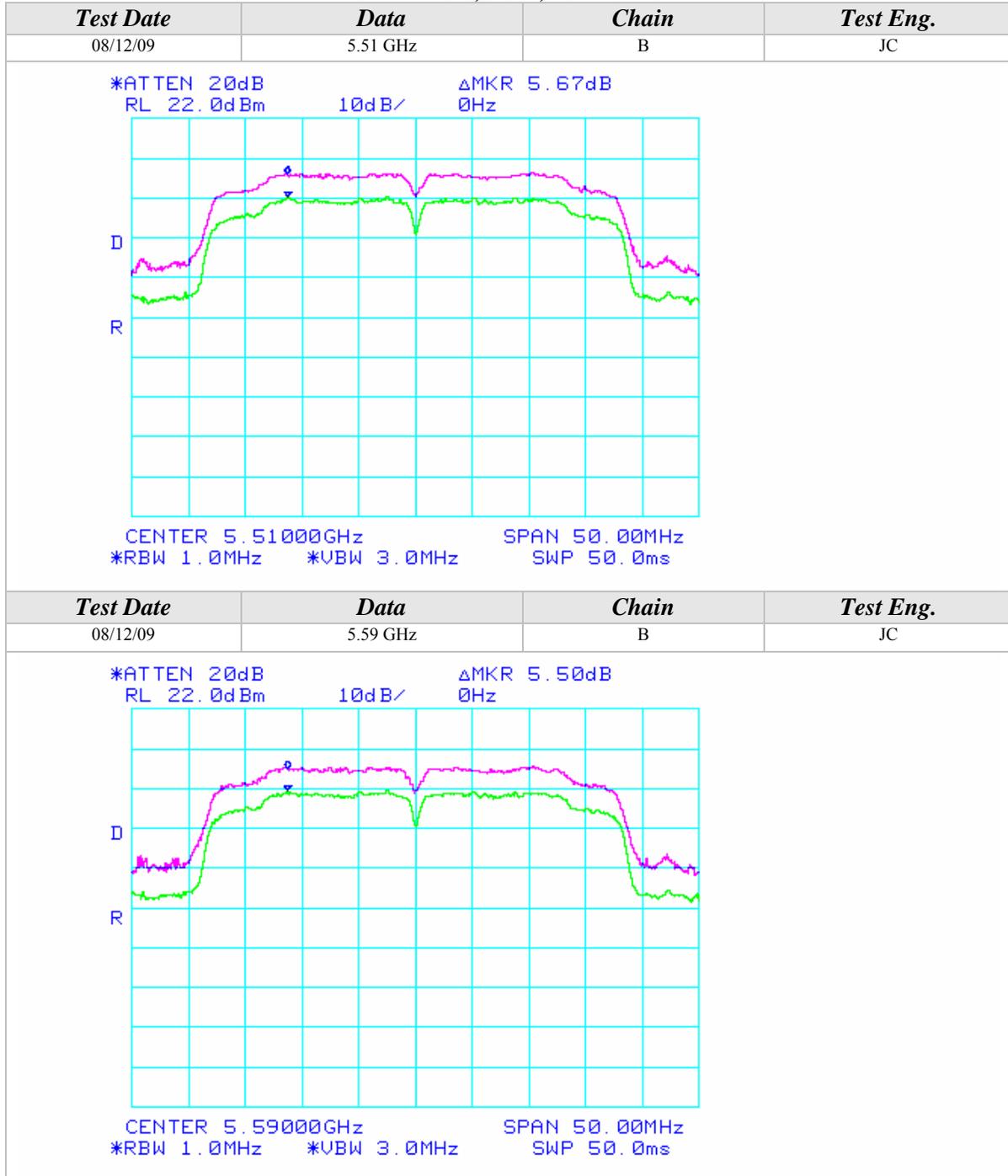
Peak Excursion (Continued)

802.11n Mode, 5GHz, 40MHz Wide



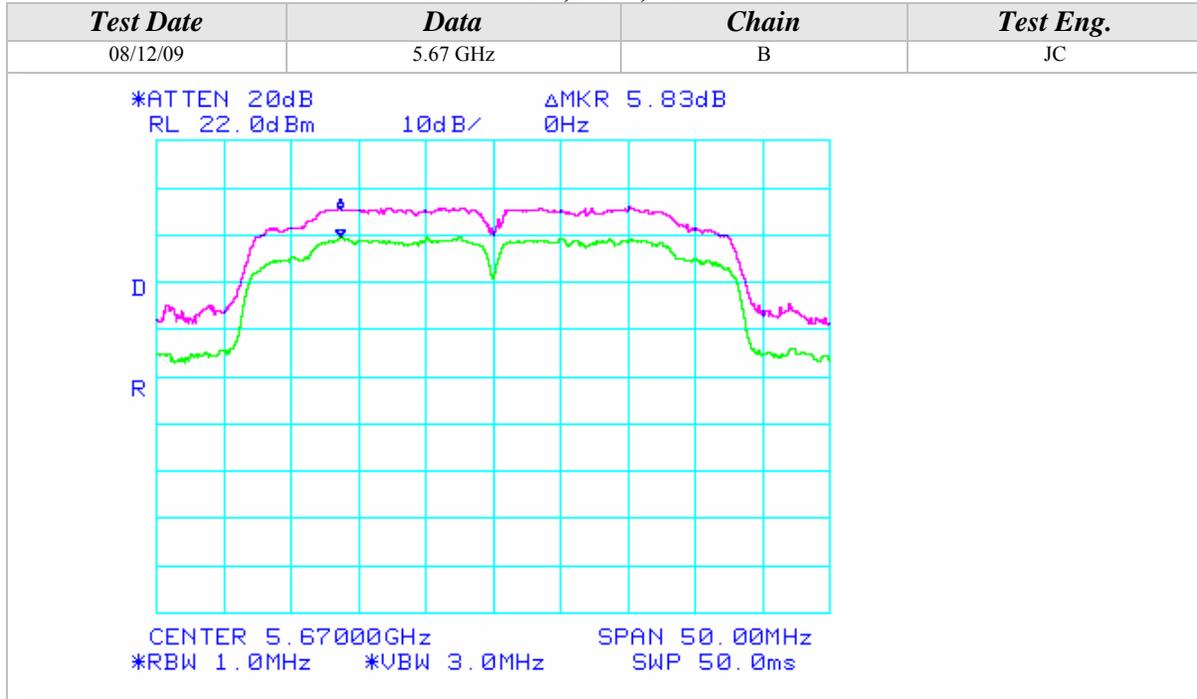
Peak Excursion (Continued)

802.11n Mode, 5GHz, 40MHz Wide



Peak Excursion (Continued)

802.11n Mode, 5GHz, 40MHz Wide



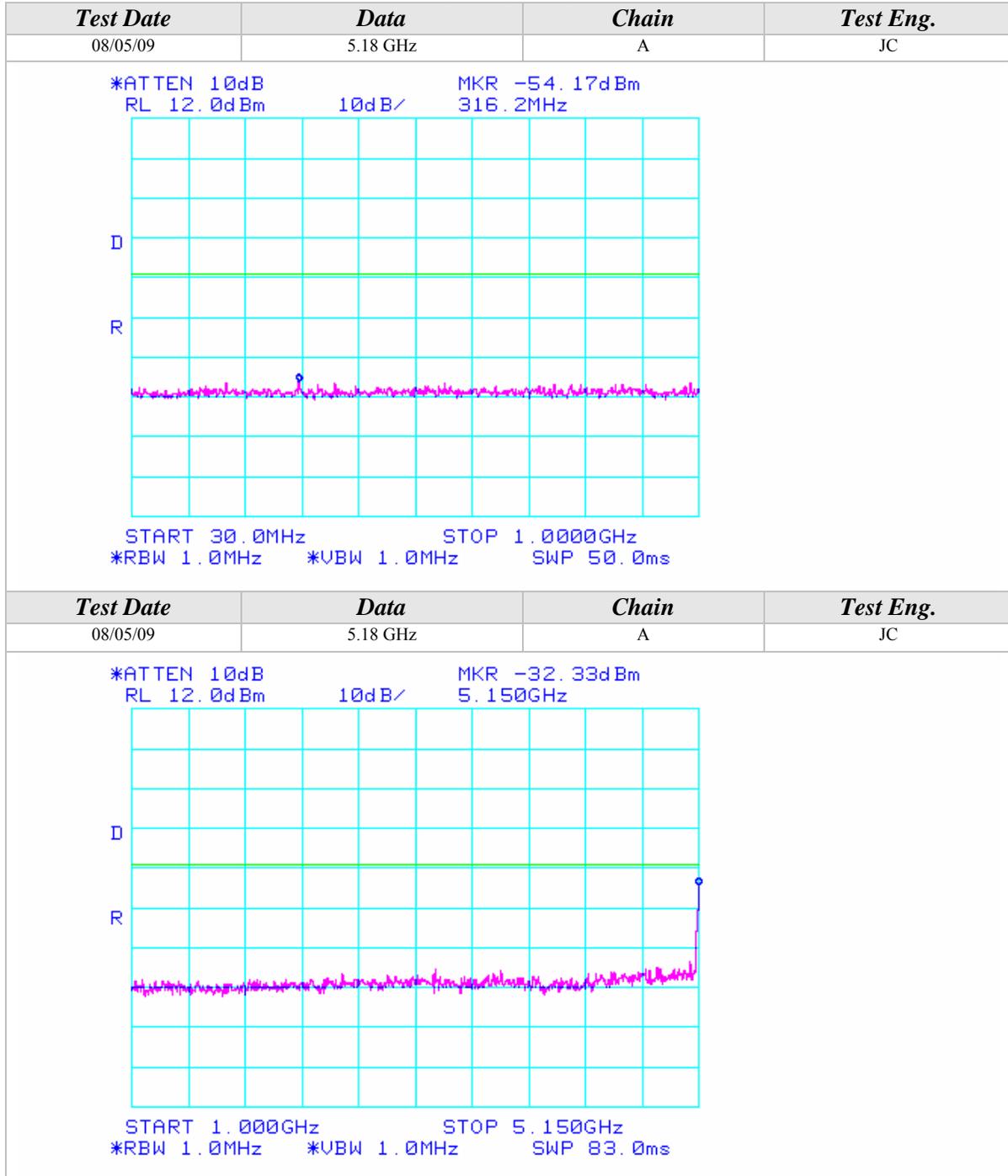
**CONDUCTED OUT OF BAND EMISSIONS**

|                       |                                                                                    |                        |              |
|-----------------------|------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                  | <b>DATE:</b>           | 08/05/09     |
| <b>EUT:</b>           | Intel WiFi Link 6200                                                               | <b>PROJECT NUMBER:</b> | INTEL-090601 |
| <b>MODEL NUMBER:</b>  | 622ANHMW                                                                           | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 0015005A70A4                                                                       | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in an extender board connected to the host laptop's mini PCI slot | <b>TEMPERATURE:</b>    | 22 deg. C    |
|                       |                                                                                    | <b>HUMIDITY:</b>       | 46% RH       |
|                       |                                                                                    | <b>TIME:</b>           | 9:00 AM      |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description:</b> | <p>For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.</p> <p>For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.</p> <p>For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.</p> |
| <b>Results:</b>     | See Data Sheet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Note:</b>        | <p>Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency.</p> <ul style="list-style-type: none"><li>• 120VAC / 60 Hz.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

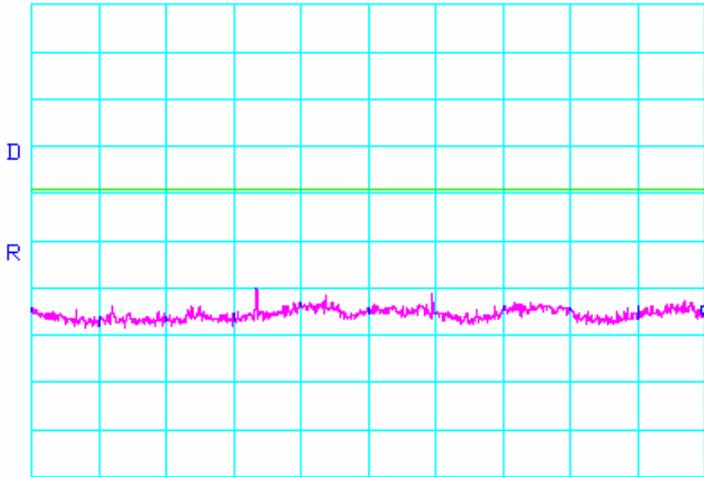
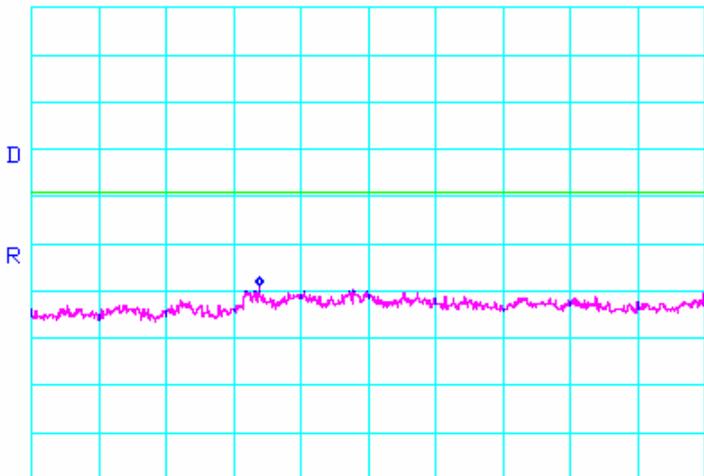
Conducted Out Of Band Emissions (Continued)

802.11a Mode



Conducted Out Of Band Emissions (Continued)

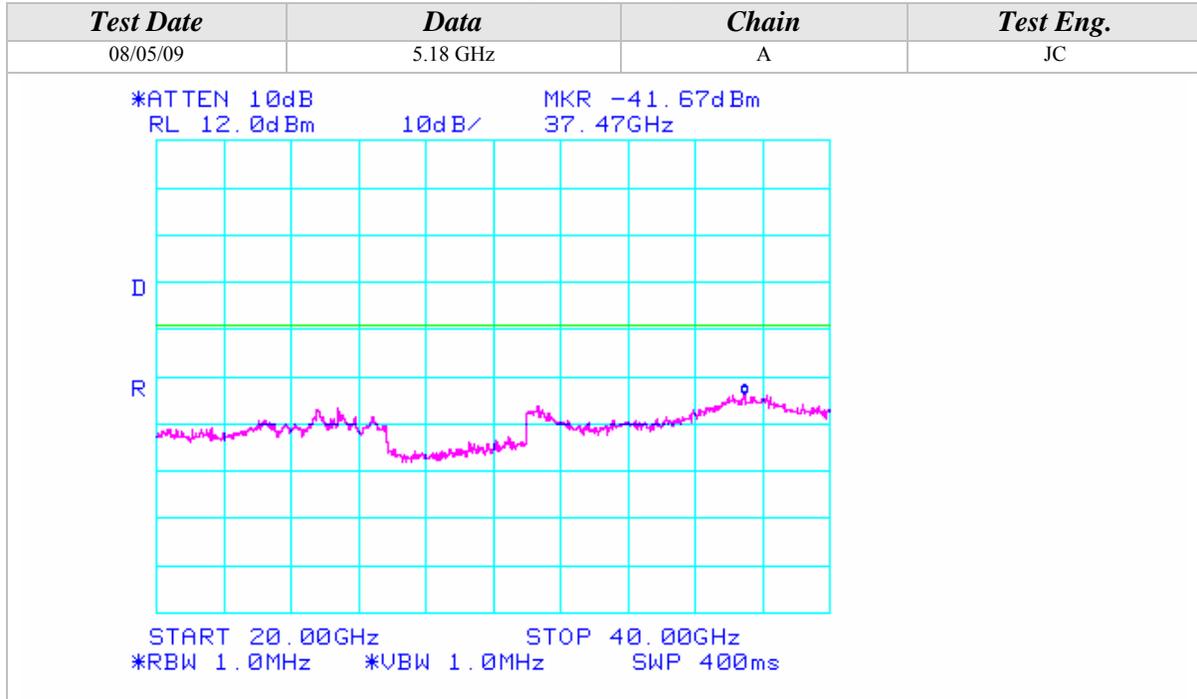
802.11a Mode

| <i>Test Date</i>                                                                                                                                                                                                                                                                                                                                                             | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|------------------|
| 08/05/09                                                                                                                                                                                                                                                                                                                                                                     | 5.18 GHz    | A            | JC               |
| <pre> *ATTEN 10dB          MKR -53.67dBm RL 12.0dBm          10dB/    9.992GHz  START 5.350GHz       STOP 10.000GHz *RBW 1.0MHz         *VBW 1.0MHz    SWP 93.0ms           </pre>  <pre> START 10.000GHz     STOP 20.000GHz *RBW 1.0MHz         *VBW 1.0MHz    SWP 200ms           </pre> |             |              |                  |
| <i>Test Date</i>                                                                                                                                                                                                                                                                                                                                                             | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
| 08/05/09                                                                                                                                                                                                                                                                                                                                                                     | 5.18 GHz    | A            | JC               |
| <pre> *ATTEN 10dB          MKR -47.00dBm RL 12.0dBm          10dB/    13.38GHz  START 10.000GHz     STOP 20.000GHz *RBW 1.0MHz         *VBW 1.0MHz    SWP 200ms           </pre>                                                                                                         |             |              |                  |



Conducted Out Of Band Emissions (Continued)

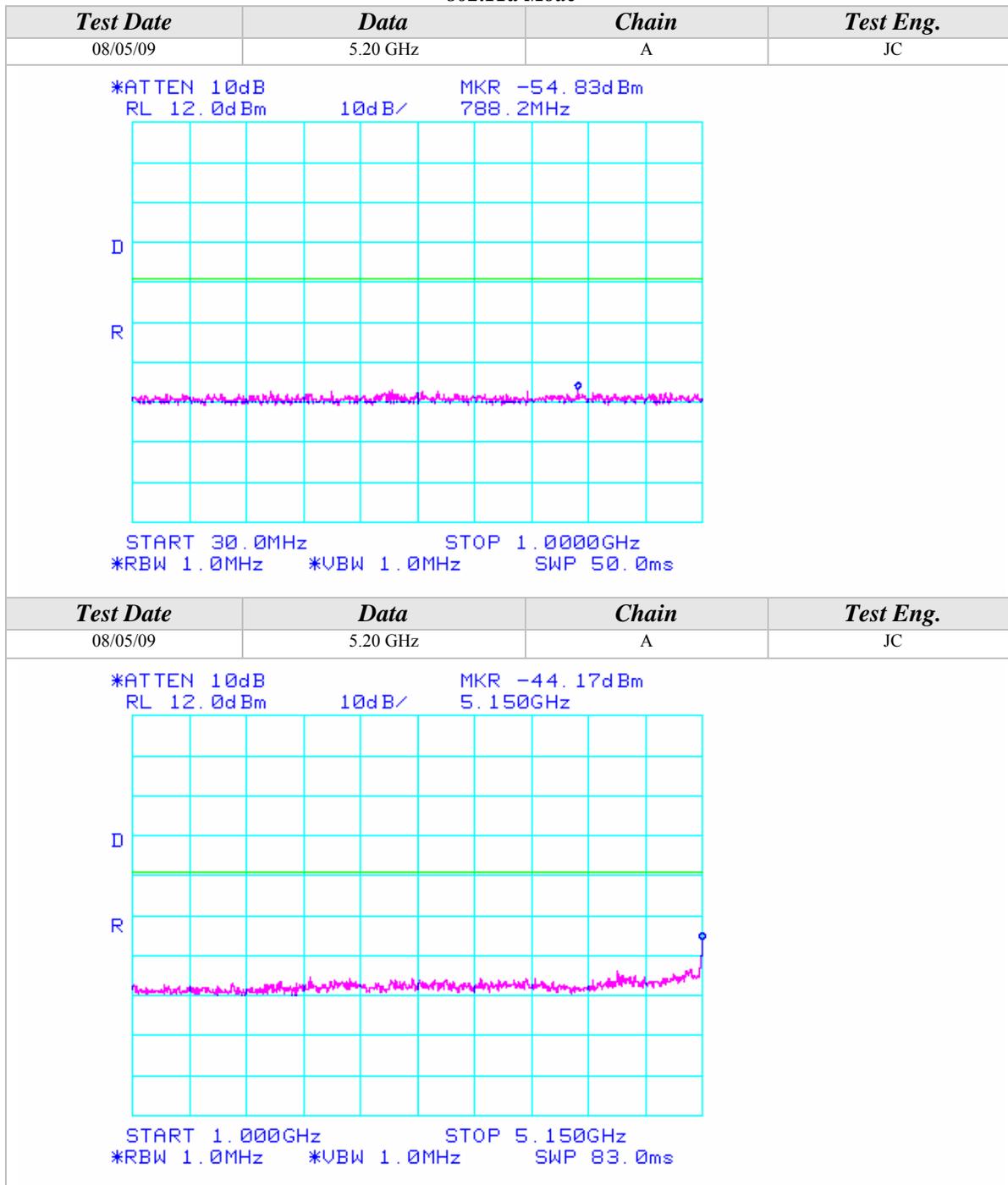
802.11a Mode





Conducted Out Of Band Emissions (Continued)

802.11a Mode





# Conducted Out Of Band Emissions (Continued)

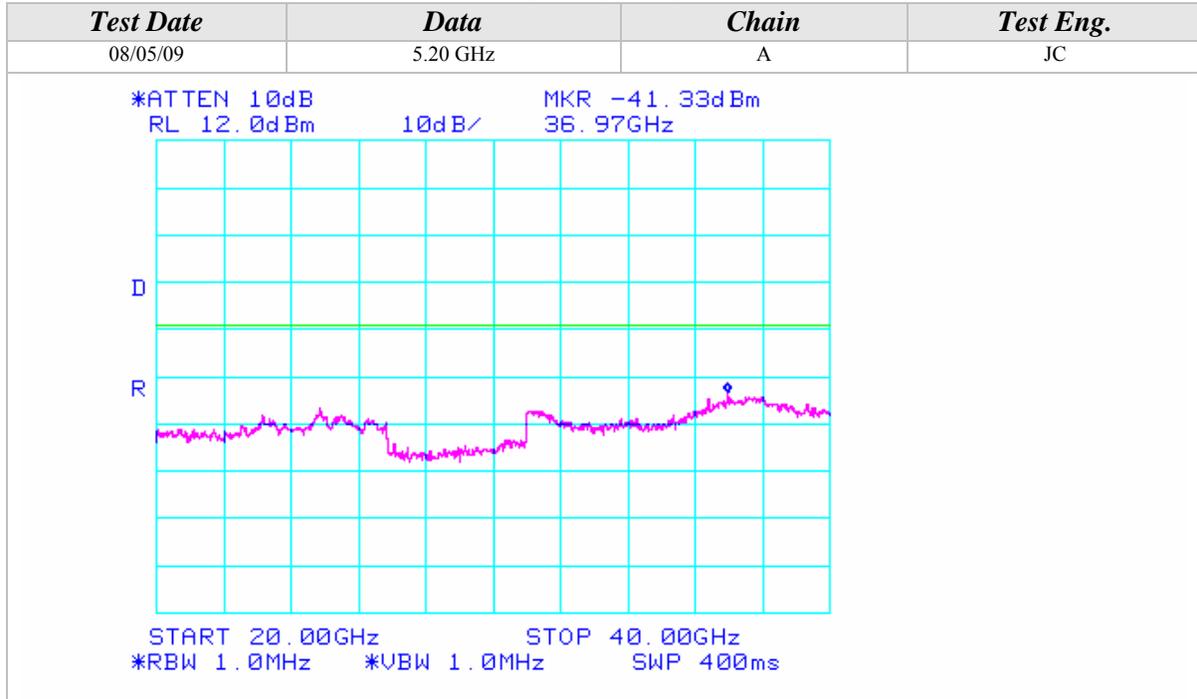
## 802.11a Mode





Conducted Out Of Band Emissions (Continued)

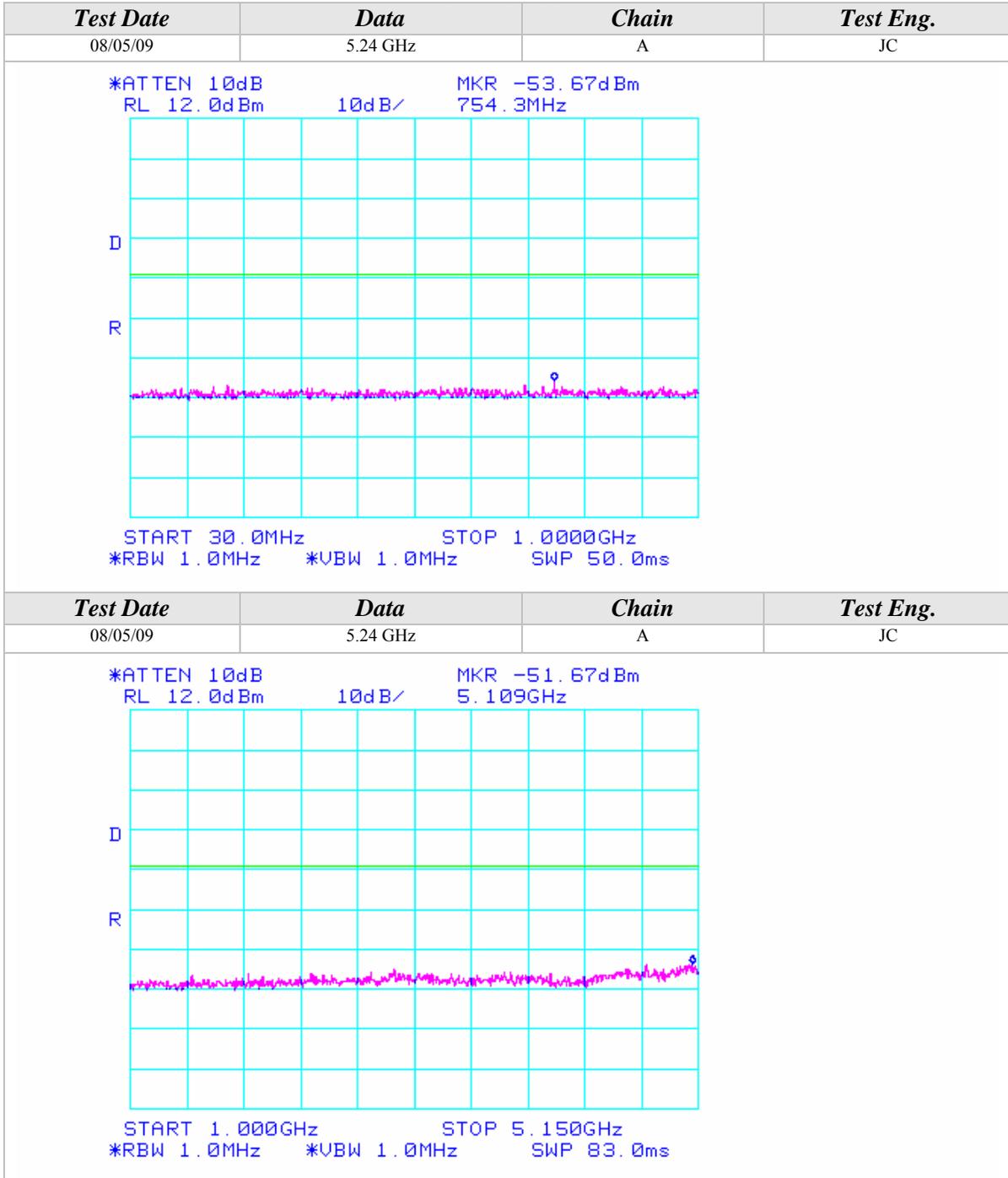
802.11a Mode





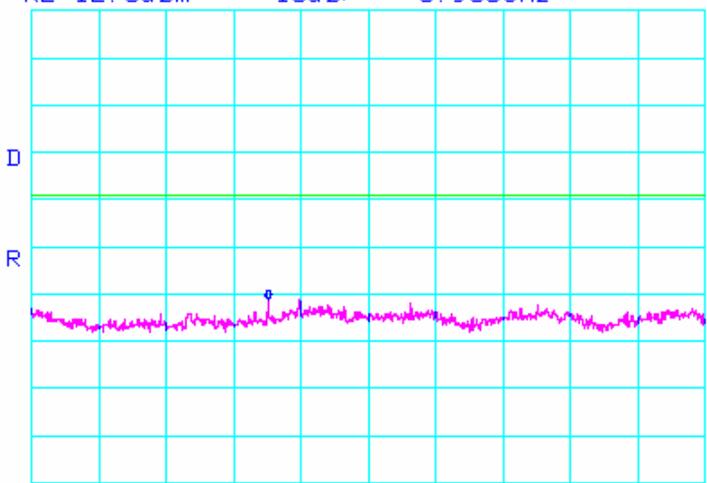
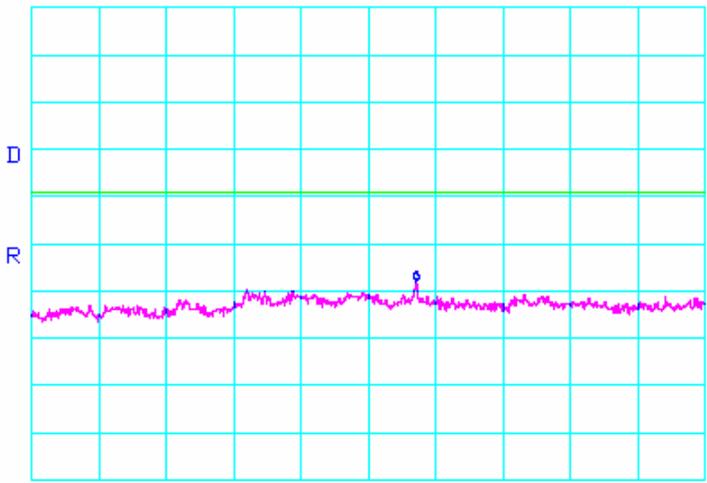
Conducted Out Of Band Emissions (Continued)

802.11a Mode



### Conducted Out Of Band Emissions (Continued)

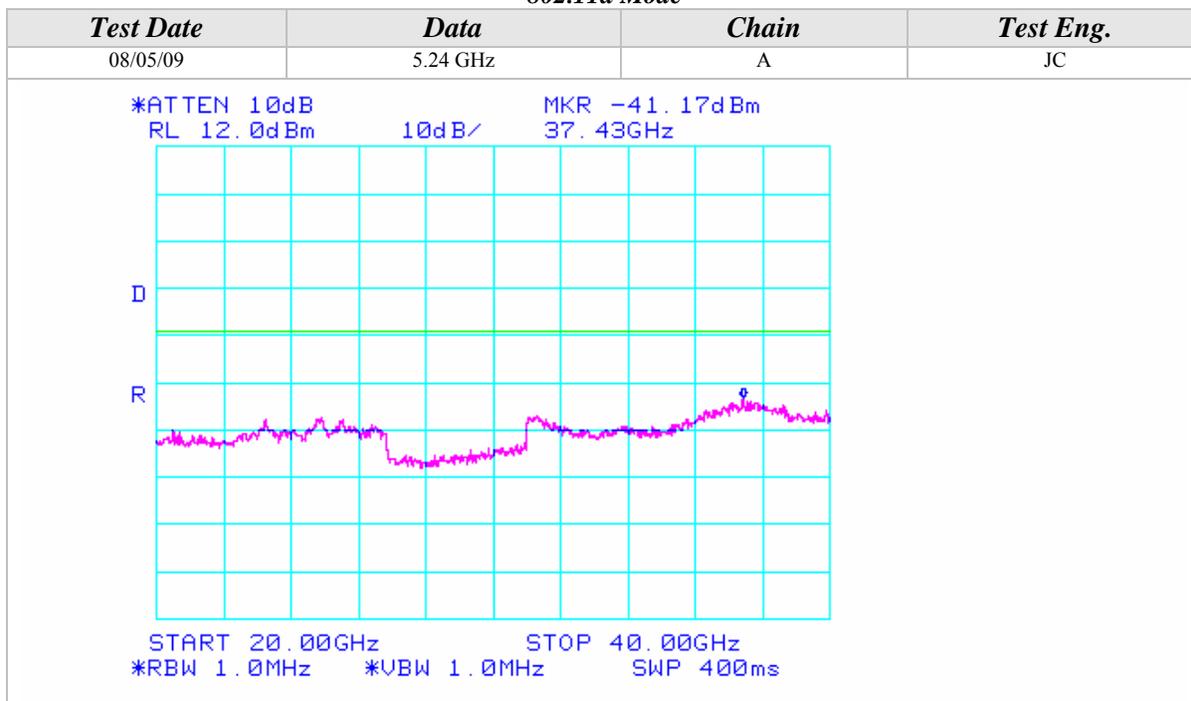
#### 802.11a Mode

| <i>Test Date</i>                                                                                                                                                                                                                                                                                                                                                            | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|------------------|
| 08/05/09                                                                                                                                                                                                                                                                                                                                                                    | 5.24 GHz    | A            | JC               |
| <p>*ATTEN 10dB                      MKR -49.17dBm<br/>           RL 12.0dBm                    10dB/                    6.985GHz</p>  <p>START 5.350GHz                      STOP 10.000GHz<br/>           *RBW 1.0MHz                    *VBW 1.0MHz                    SWP 93.0ms</p>   |             |              |                  |
| <i>Test Date</i>                                                                                                                                                                                                                                                                                                                                                            | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
| 08/05/09                                                                                                                                                                                                                                                                                                                                                                    | 5.24 GHz    | A            | JC               |
| <p>*ATTEN 10dB                      MKR -46.00dBm<br/>           RL 12.0dBm                    10dB/                    15.72GHz</p>  <p>START 10.000GHz                      STOP 20.000GHz<br/>           *RBW 1.0MHz                    *VBW 1.0MHz                    SWP 200ms</p> |             |              |                  |



Conducted Out Of Band Emissions (Continued)

802.11a Mode





### Conducted Out Of Band Emissions (Continued)

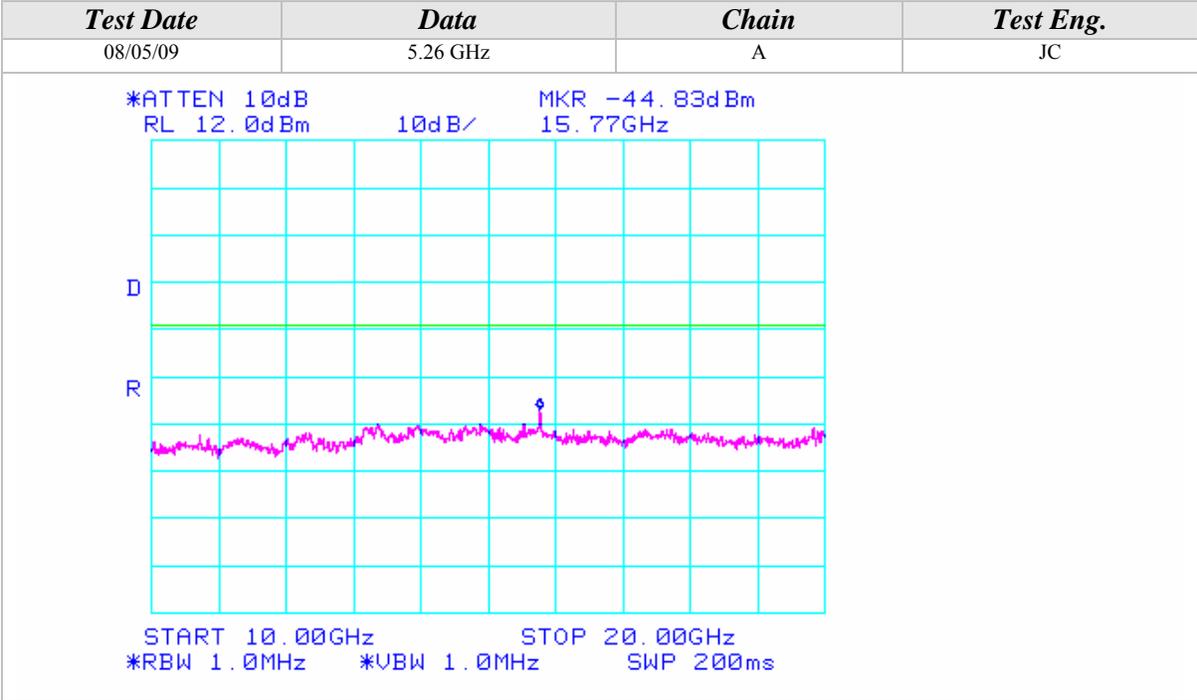
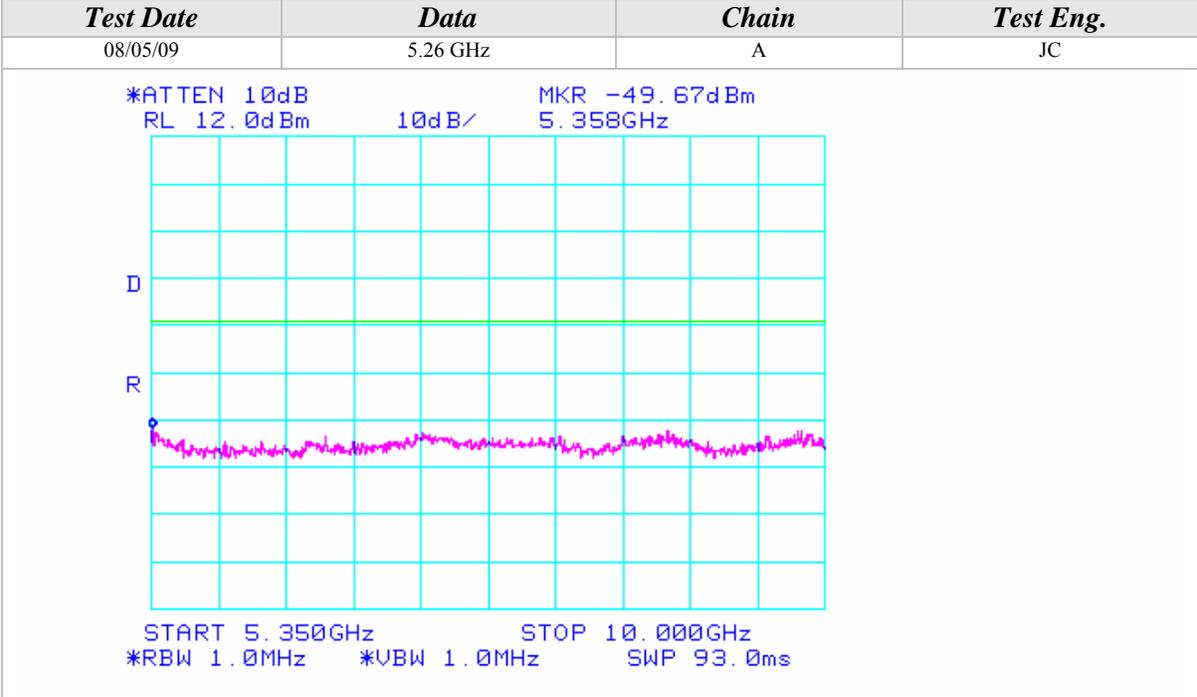
#### 802.11a Mode

| <b>Test Date</b>                                                                                                                                                                                                                                                                  | <b>Data</b> | <b>Chain</b> | <b>Test Eng.</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|------------------|
| 08/05/09                                                                                                                                                                                                                                                                          | 5.26 GHz    | A            | JC               |
| <p>*ATTEN 10dB                      MKR -53.50dBm<br/>           RL 12.0dBm                    10dB/                      485.9MHz</p> <p>START 30.0MHz                      STOP 1.0000GHz<br/>           *RBW 1.0MHz                    *VBW 1.0MHz              SWP 50.0ms</p> |             |              |                  |
| <b>Test Date</b>                                                                                                                                                                                                                                                                  | <b>Data</b> | <b>Chain</b> | <b>Test Eng.</b> |
| 08/05/09                                                                                                                                                                                                                                                                          | 5.26 GHz    | A            | JC               |
| <p>*ATTEN 10dB                      MKR -51.67dBm<br/>           RL 12.0dBm                    10dB/                      5.095GHz</p> <p>START 1.000GHz                      STOP 5.150GHz<br/>           *RBW 1.0MHz                    *VBW 1.0MHz              SWP 83.0ms</p> |             |              |                  |



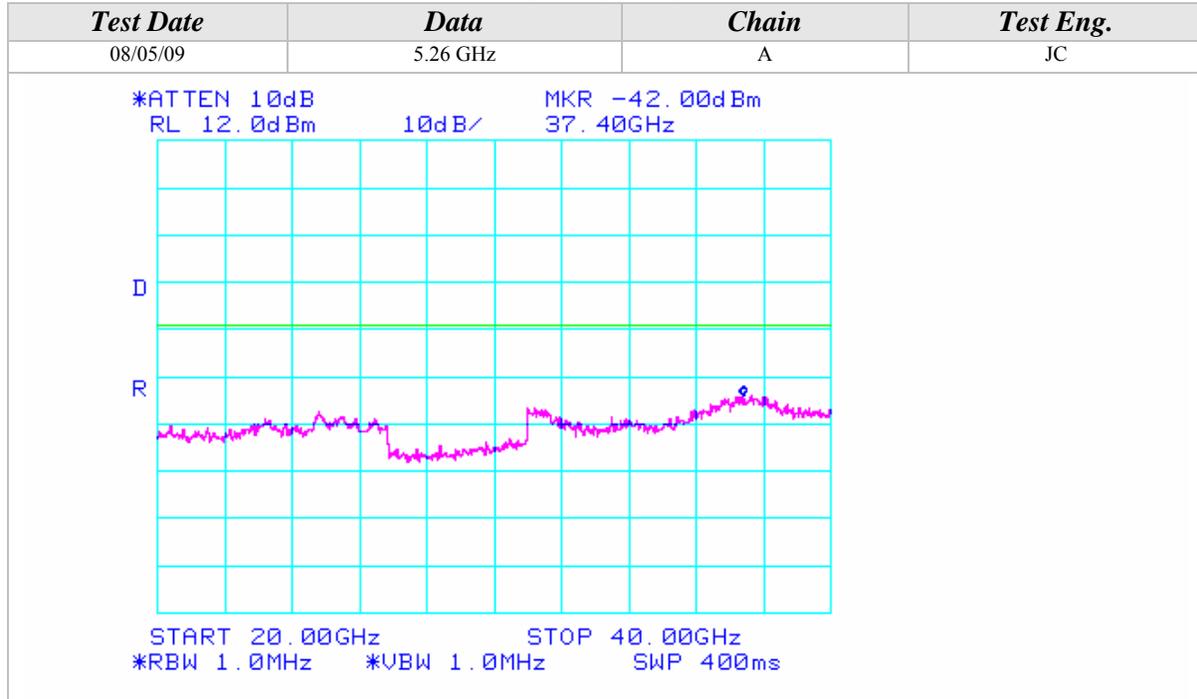
Conducted Out Of Band Emissions (Continued)

802.11a Mode



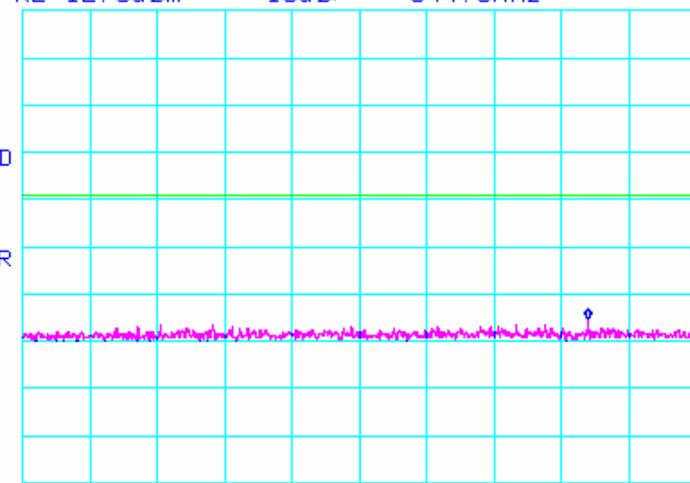
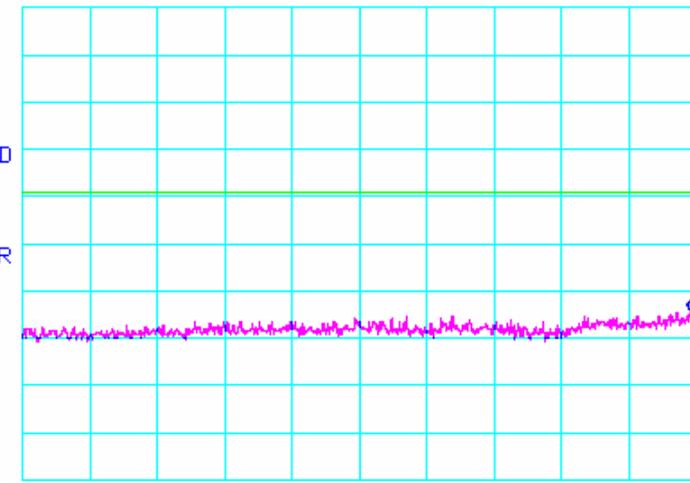
## Conducted Out Of Band Emissions (Continued)

## 802.11a Mode

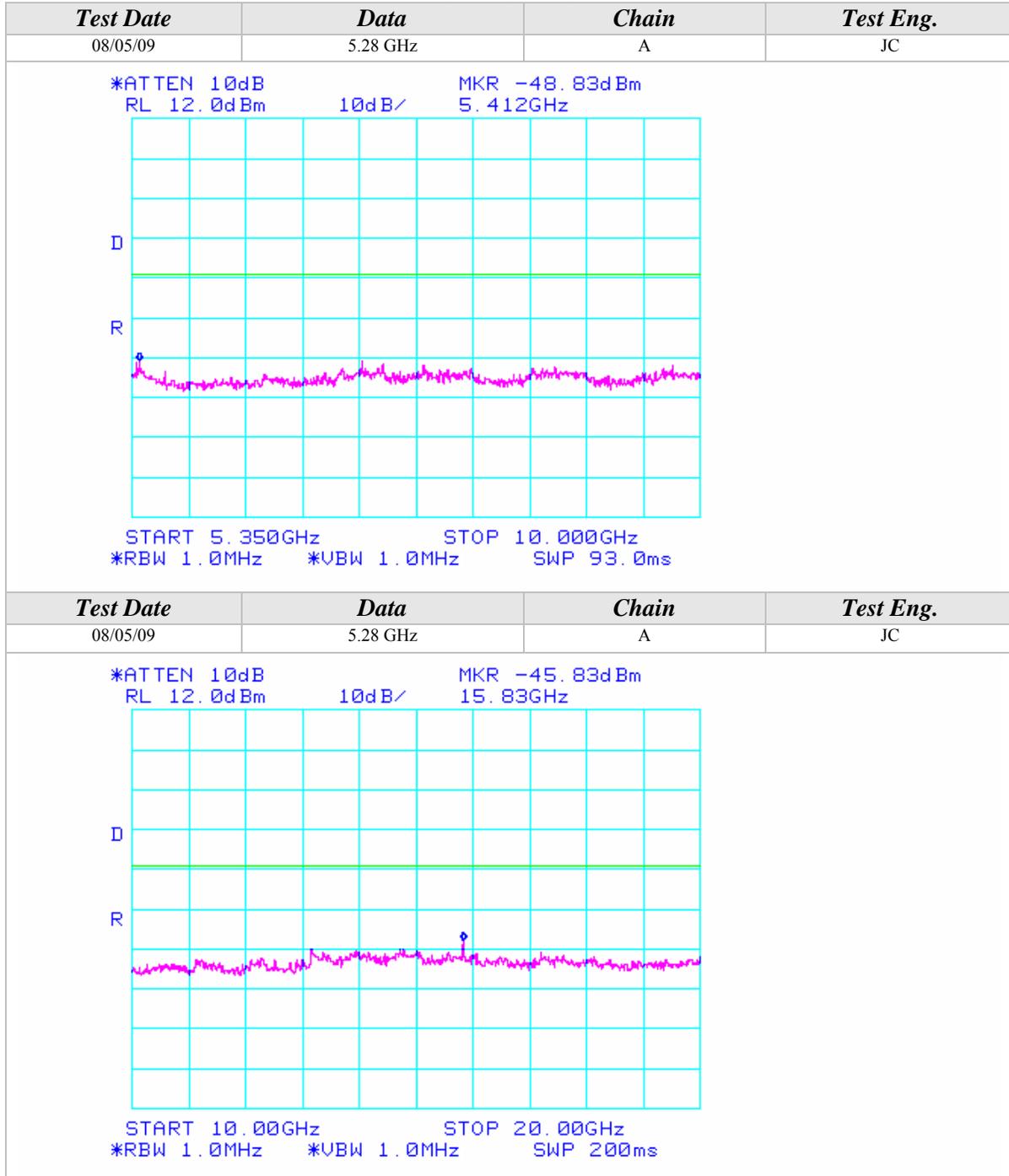


## Conducted Out Of Band Emissions (Continued)

## 802.11a Mode

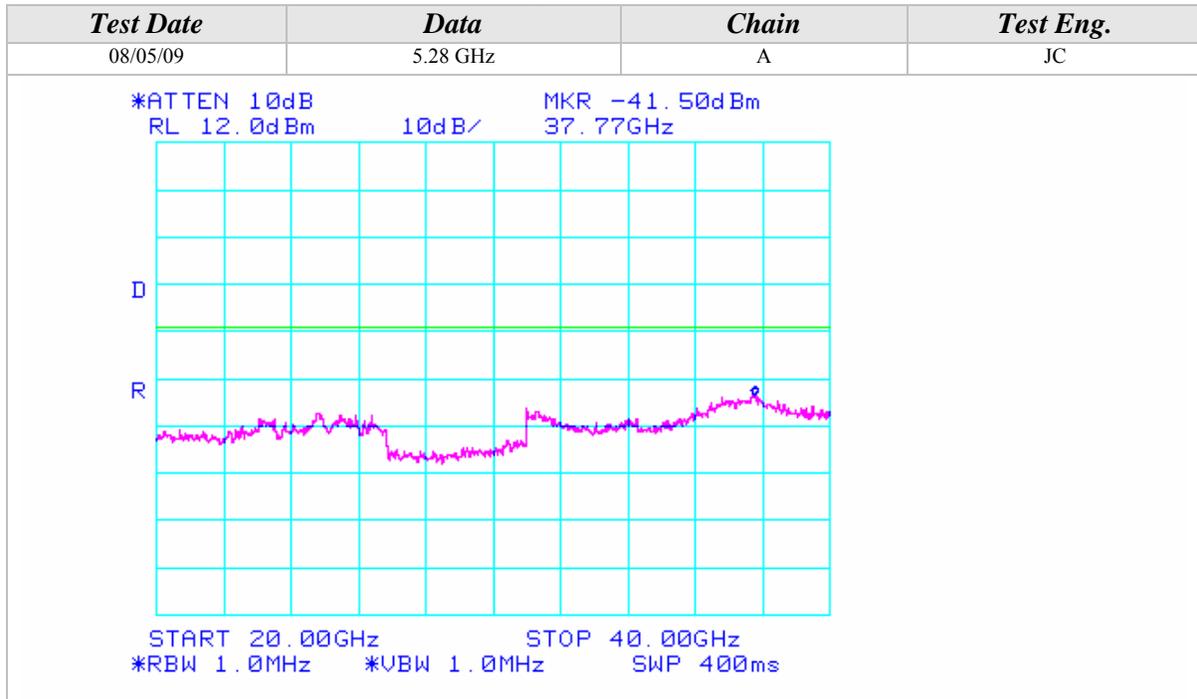
| <i>Test Date</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|------------------|
| 08/05/09                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5.28 GHz    | A            | JC               |
| <div style="font-family: monospace; font-size: small;">                     *ATTEN 10dB                    MKR -53.17dBm<br/>                     RL 12.0dBm            10dB/            844.8MHz<br/><br/> <br/><br/>                     START 30.0MHz                    STOP 1.0000GHz<br/>                     *RBW 1.0MHz          *VBW 1.0MHz          SWP 50.0ms                 </div>   |             |              |                  |
| <i>Test Date</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
| 08/05/09                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5.28 GHz    | A            | JC               |
| <div style="font-family: monospace; font-size: small;">                     *ATTEN 10dB                    MKR -52.00dBm<br/>                     RL 12.0dBm            10dB/            5.115GHz<br/><br/> <br/><br/>                     START 1.000GHz                    STOP 5.150GHz<br/>                     *RBW 1.0MHz          *VBW 1.0MHz          SWP 83.0ms                 </div> |             |              |                  |

## Conducted Out Of Band Emissions (Continued)

**802.11a Mode**


Conducted Out Of Band Emissions (Continued)

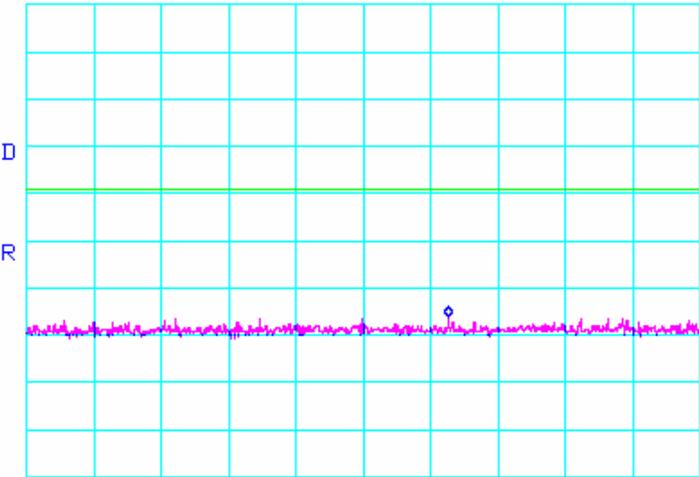
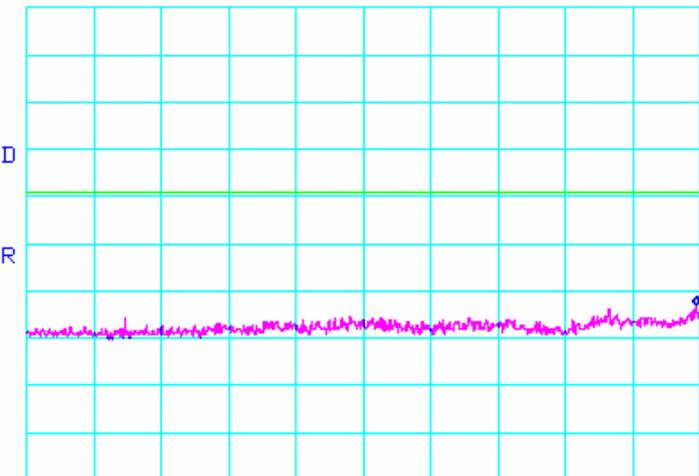
802.11a Mode





### Conducted Out Of Band Emissions (Continued)

#### 802.11a Mode

| <b>Test Date</b>                                                                                                                                                                                                                                             | <b>Data</b> | <b>Chain</b> | <b>Test Eng.</b> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|------------------|
| 08/05/09                                                                                                                                                                                                                                                     | 5.32 GHz    | A            | JC               |
| <p>*ATTEN 10dB      MKR -54.00dBm<br/>RL 12.0dBm      10dB/      637.9MHz</p>  <p>START 30.0MHz      STOP 1.0000GHz<br/>*RBW 1.0MHz      *VBW 1.0MHz      SWP 50.0ms</p>   |             |              |                  |
| <b>Test Date</b>                                                                                                                                                                                                                                             | <b>Data</b> | <b>Chain</b> | <b>Test Eng.</b> |
| 08/05/09                                                                                                                                                                                                                                                     | 5.32 GHz    | A            | JC               |
| <p>*ATTEN 10dB      MKR -51.17dBm<br/>RL 12.0dBm      10dB/      5.129GHz</p>  <p>START 1.000GHz      STOP 5.150GHz<br/>*RBW 1.0MHz      *VBW 1.0MHz      SWP 83.0ms</p> |             |              |                  |

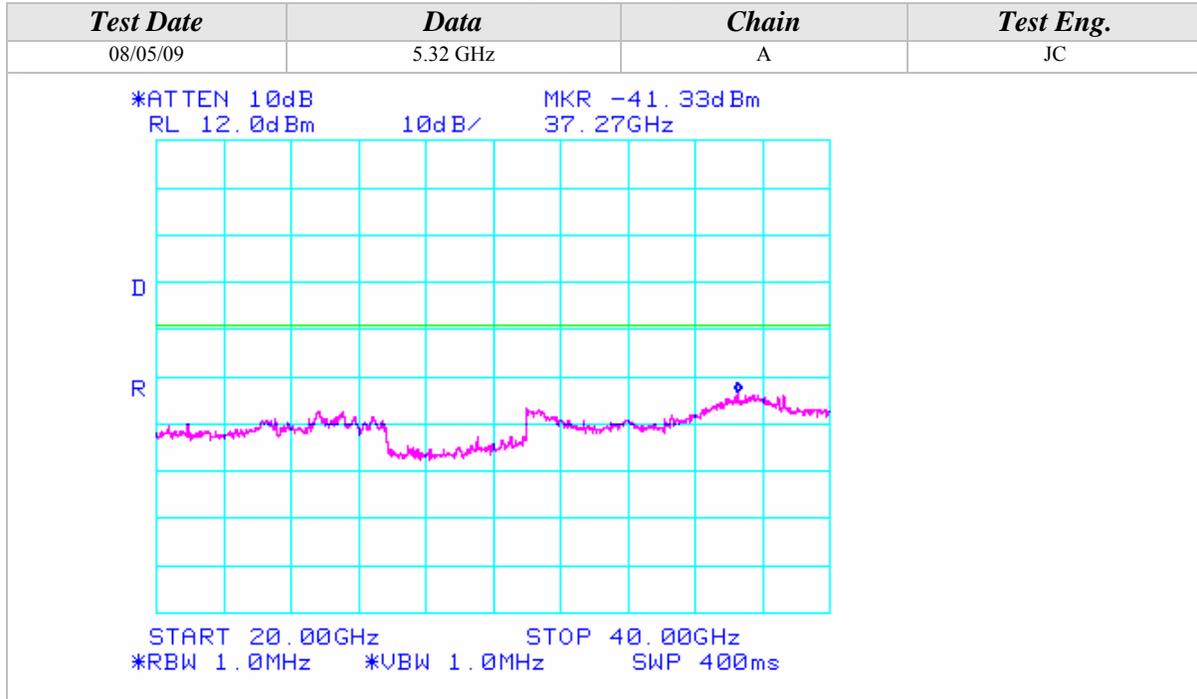
## Conducted Out Of Band Emissions (Continued)

## 802.11a Mode

| <i>Test Date</i>                                                                                                                                                                                                                                                     | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|------------------|
| 08/05/09                                                                                                                                                                                                                                                             | 5.32 GHz    | A            | JC               |
| <p>           *ATTEN 10dB<br/>           RL 12.0dBm<br/>           MKR -40.83dBm<br/>           10dB/<br/>           5.350GHz         </p> <p>           START 5.350GHz      STOP 10.000GHz<br/>           *RBW 1.0MHz      *VBW 1.0MHz      SWP 93.0ms         </p> |             |              |                  |
| <i>Test Date</i>                                                                                                                                                                                                                                                     | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
| 08/05/09                                                                                                                                                                                                                                                             | 5.32 GHz    | A            | JC               |
| <p>           *ATTEN 10dB<br/>           RL 12.0dBm<br/>           MKR -47.17dBm<br/>           10dB/<br/>           13.17GHz         </p> <p>           START 10.00GHz      STOP 20.00GHz<br/>           *RBW 1.0MHz      *VBW 1.0MHz      SWP 200ms         </p>   |             |              |                  |

Conducted Out Of Band Emissions (Continued)

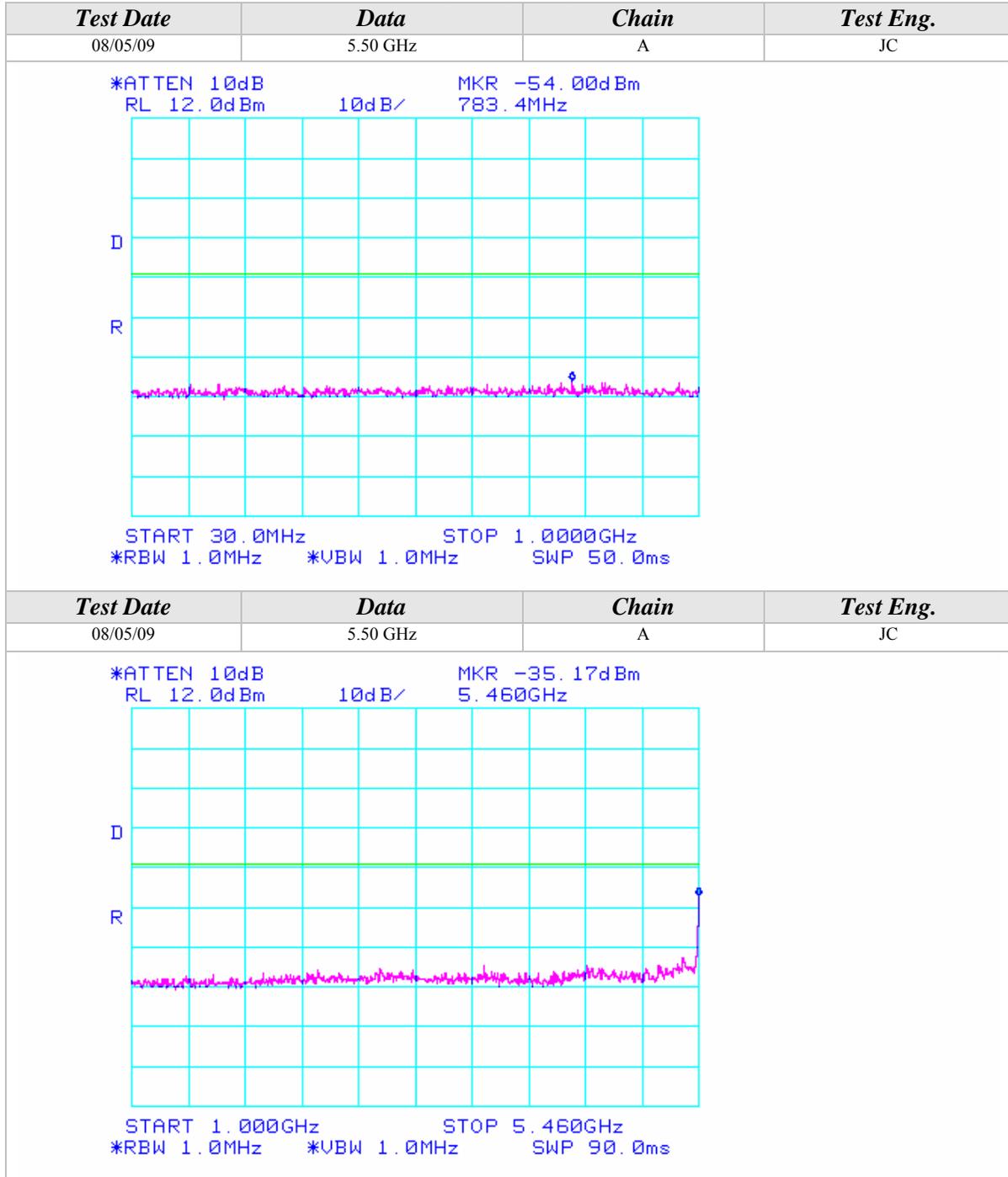
802.11a Mode





### Conducted Out Of Band Emissions (Continued)

#### 802.11a Mode



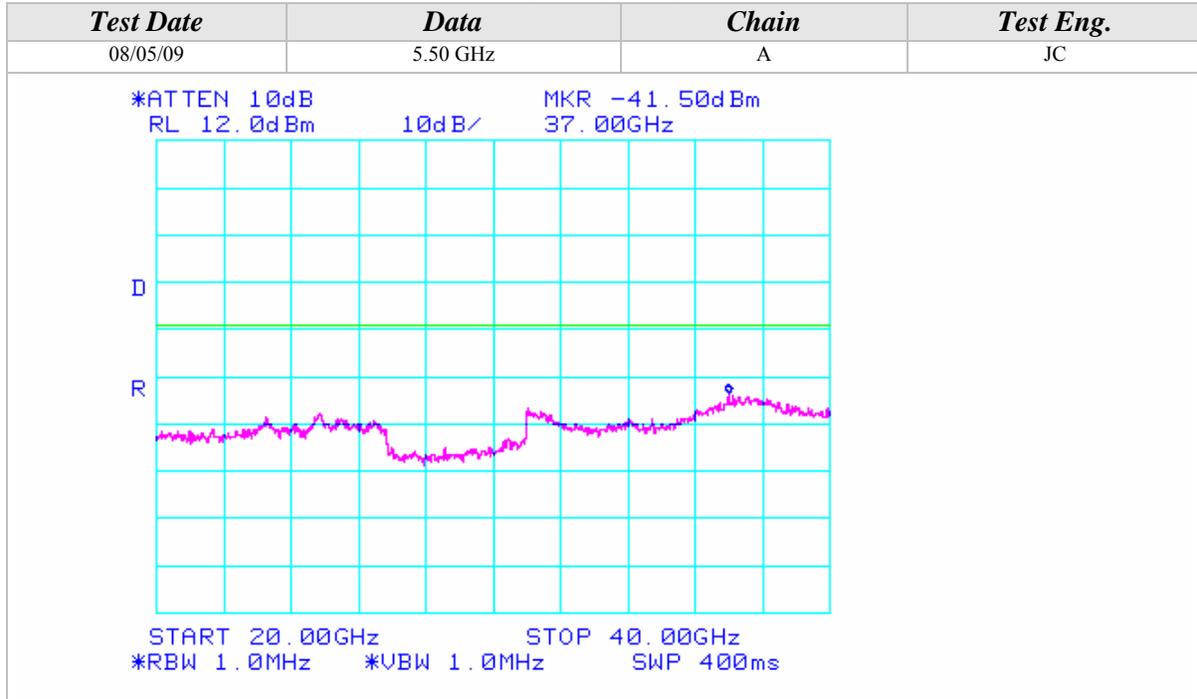
## Conducted Out Of Band Emissions (Continued)

## 802.11a Mode

| Test Date                                                                                                                                                                                                                                                                                                                                                              | Data     | Chain | Test Eng. |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-----------|
| 08/05/09                                                                                                                                                                                                                                                                                                                                                               | 5.50 GHz | A     | JC        |
| <p>*ATTEN 10dB                                  MKR -49.83dBm<br/>           RL 12.0dBm                                  10dB/                                  8.689GHz</p> <p>START 5.725GHz                                  STOP 10.000GHz<br/>           *RBW 1.0MHz                                  *VBW 1.0MHz                                  SWP 86.0ms</p> |          |       |           |
| Test Date                                                                                                                                                                                                                                                                                                                                                              | Data     | Chain | Test Eng. |
| 08/05/09                                                                                                                                                                                                                                                                                                                                                               | 5.50 GHz | A     | JC        |
| <p>*ATTEN 10dB                                  MKR -47.33dBm<br/>           RL 12.0dBm                                  10dB/                                  13.17GHz</p> <p>START 10.00GHz                                  STOP 20.00GHz<br/>           *RBW 1.0MHz                                  *VBW 1.0MHz                                  SWP 200ms</p>   |          |       |           |

Conducted Out Of Band Emissions (Continued)

802.11a Mode





Conducted Out Of Band Emissions (Continued)

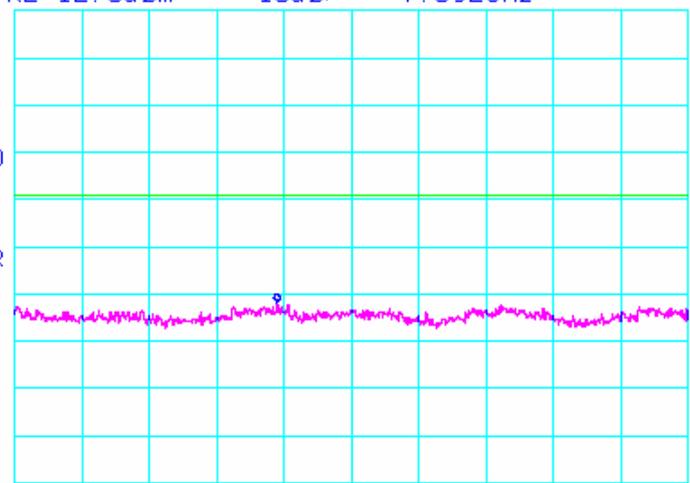
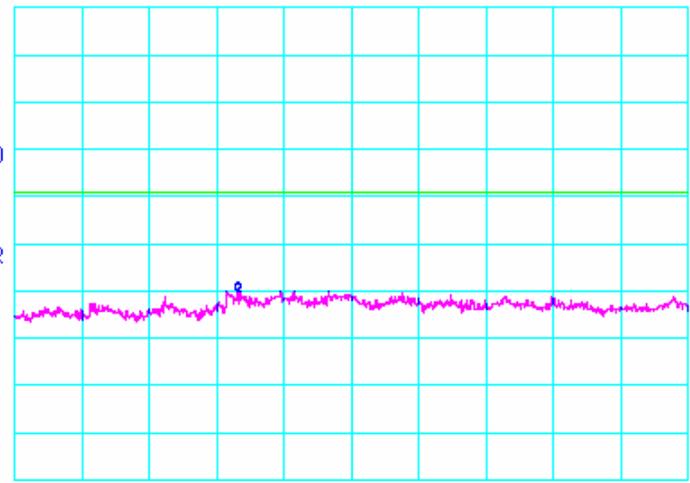
802.11a Mode

| <i>Test Date</i>                                                                                                                                                                                                                                                        | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|------------------|
| 08/05/09                                                                                                                                                                                                                                                                | 5.60 GHz    | A            | JC               |
| <p>*ATTEN 10dB                      MKR -54.00dBm<br/>RL 12.0dBm                      10dB/                      888.5MHz</p> <p>START 30.0MHz                      STOP 1.0000GHz<br/>*RBW 1.0MHz                      *VBW 1.0MHz                      SWP 50.0ms</p> |             |              |                  |
| <i>Test Date</i>                                                                                                                                                                                                                                                        | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
| 08/05/09                                                                                                                                                                                                                                                                | 5.60 GHz    | A            | JC               |
| <p>*ATTEN 10dB                      MKR -51.67dBm<br/>RL 12.0dBm                      10dB/                      5.415GHz</p> <p>START 1.000GHz                      STOP 5.460GHz<br/>*RBW 1.0MHz                      *VBW 1.0MHz                      SWP 90.0ms</p> |             |              |                  |



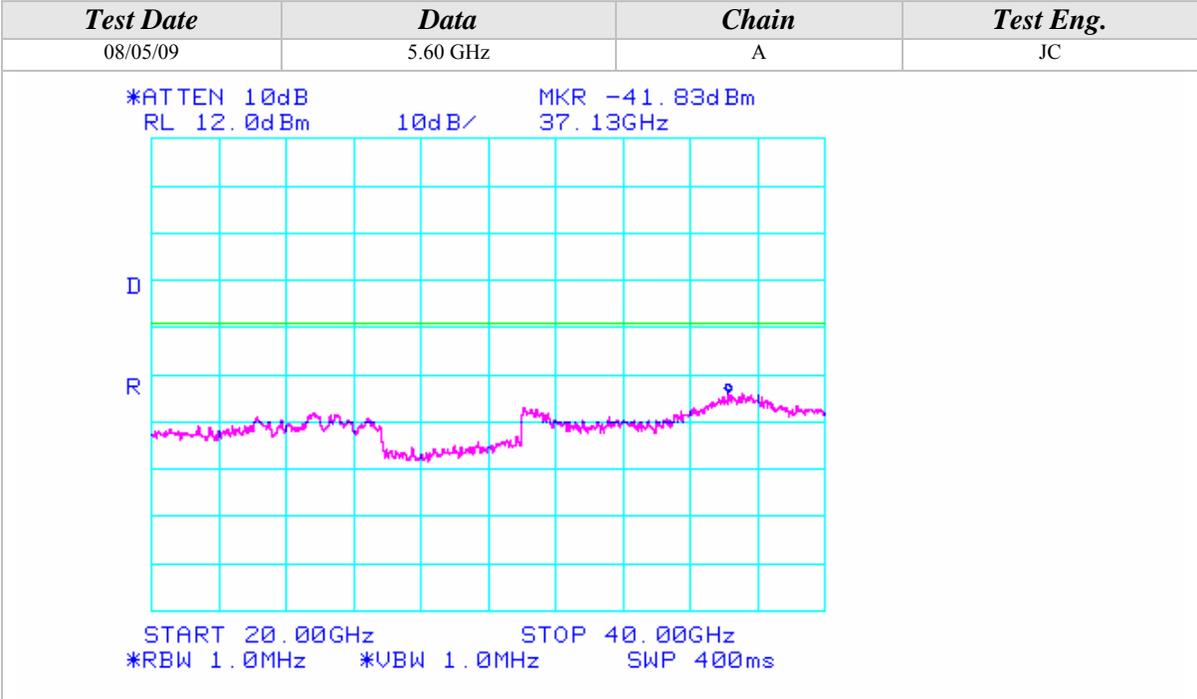
### Conducted Out Of Band Emissions (Continued)

#### 802.11a Mode

| Test Date                                                                                                                                                                                                              | Data     | Chain | Test Eng. |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-----------|
| 08/05/09                                                                                                                                                                                                               | 5.60 GHz | A     | JC        |
| *ATTEN 10dB<br>RL 12.0dBm<br>MKR -49.83dBm<br>7.392GHz<br><br>START 5.725GHz<br>STOP 10.000GHz<br>*RBW 1.0MHz *VBW 1.0MHz SWP 86.0ms |          |       |           |
| Test Date                                                                                                                                                                                                              | Data     | Chain | Test Eng. |
| 08/05/09                                                                                                                                                                                                               | 5.60 GHz | A     | JC        |
| *ATTEN 10dB<br>RL 12.0dBm<br>MKR -48.00dBm<br>13.32GHz<br><br>START 10.00GHz<br>STOP 20.00GHz<br>*RBW 1.0MHz *VBW 1.0MHz SWP 200ms |          |       |           |

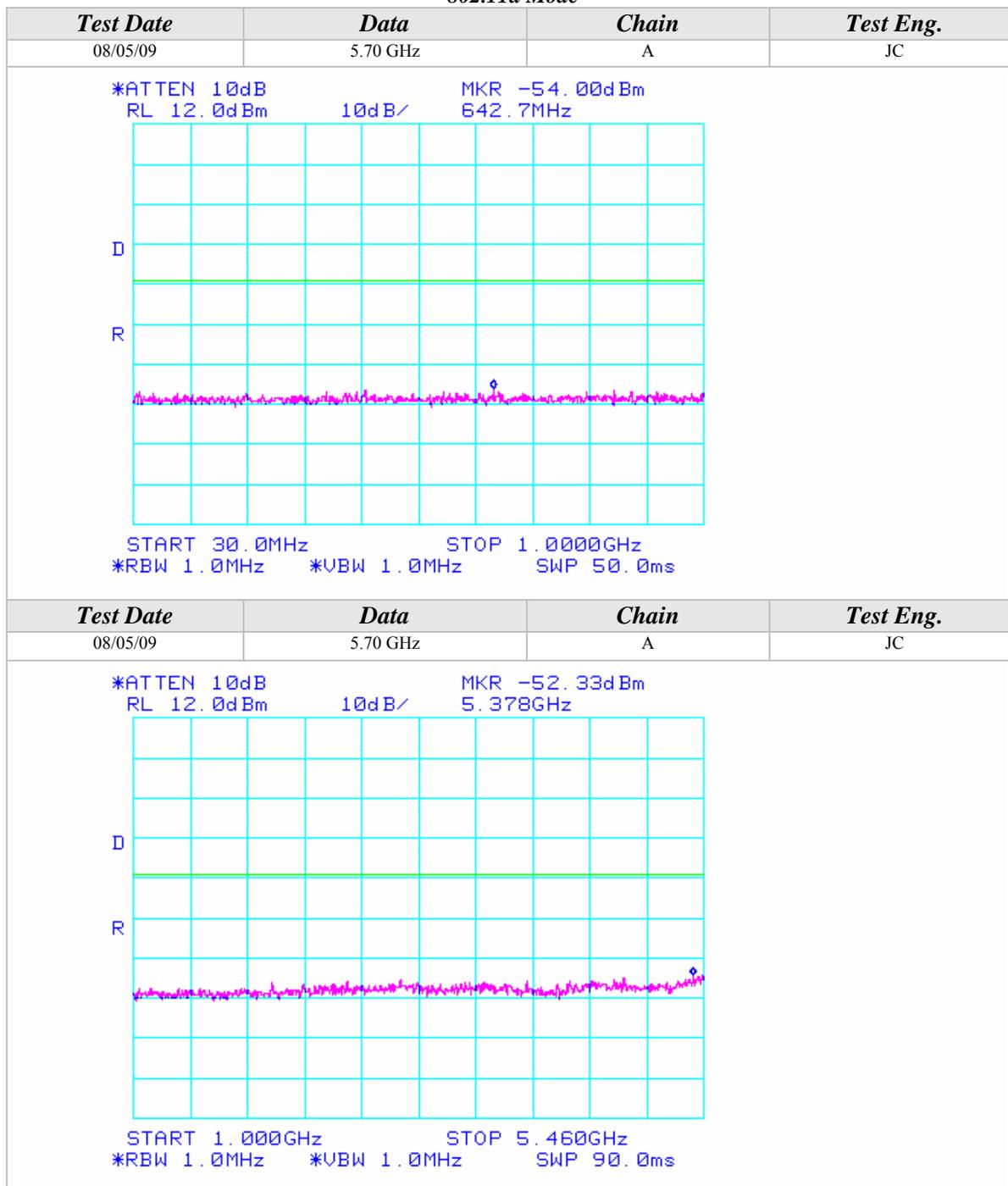
Conducted Out Of Band Emissions (Continued)

802.11a Mode



Conducted Out Of Band Emissions (Continued)

802.11a Mode

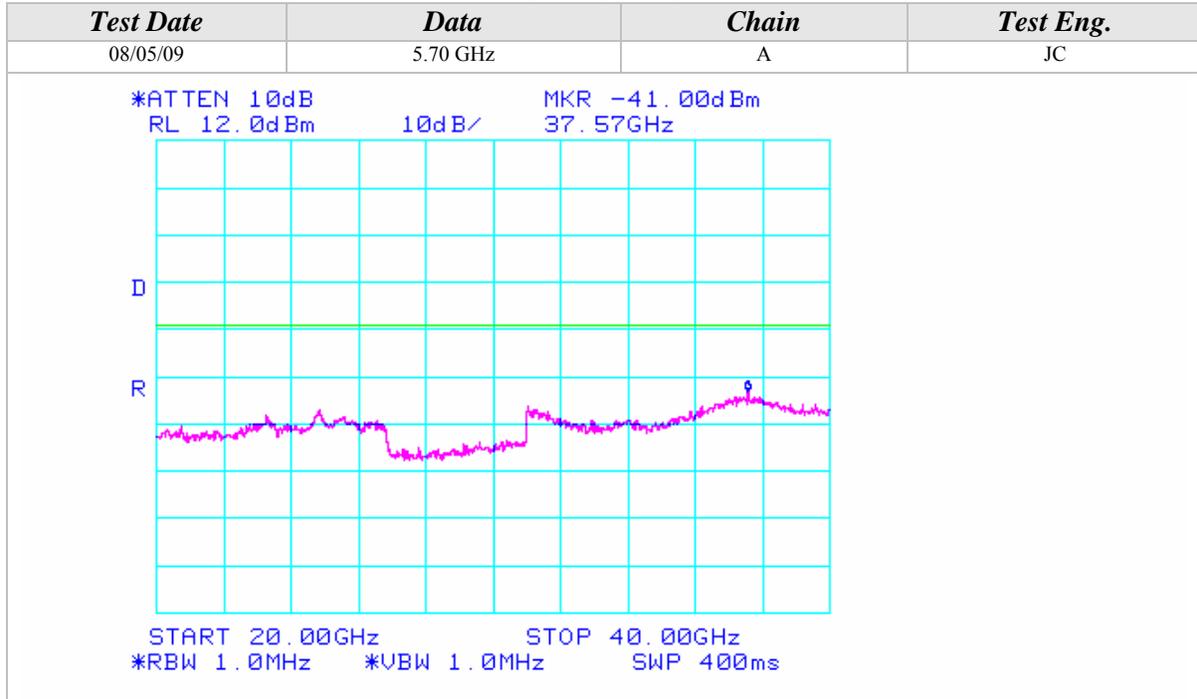






### Conducted Out Of Band Emissions (Continued)

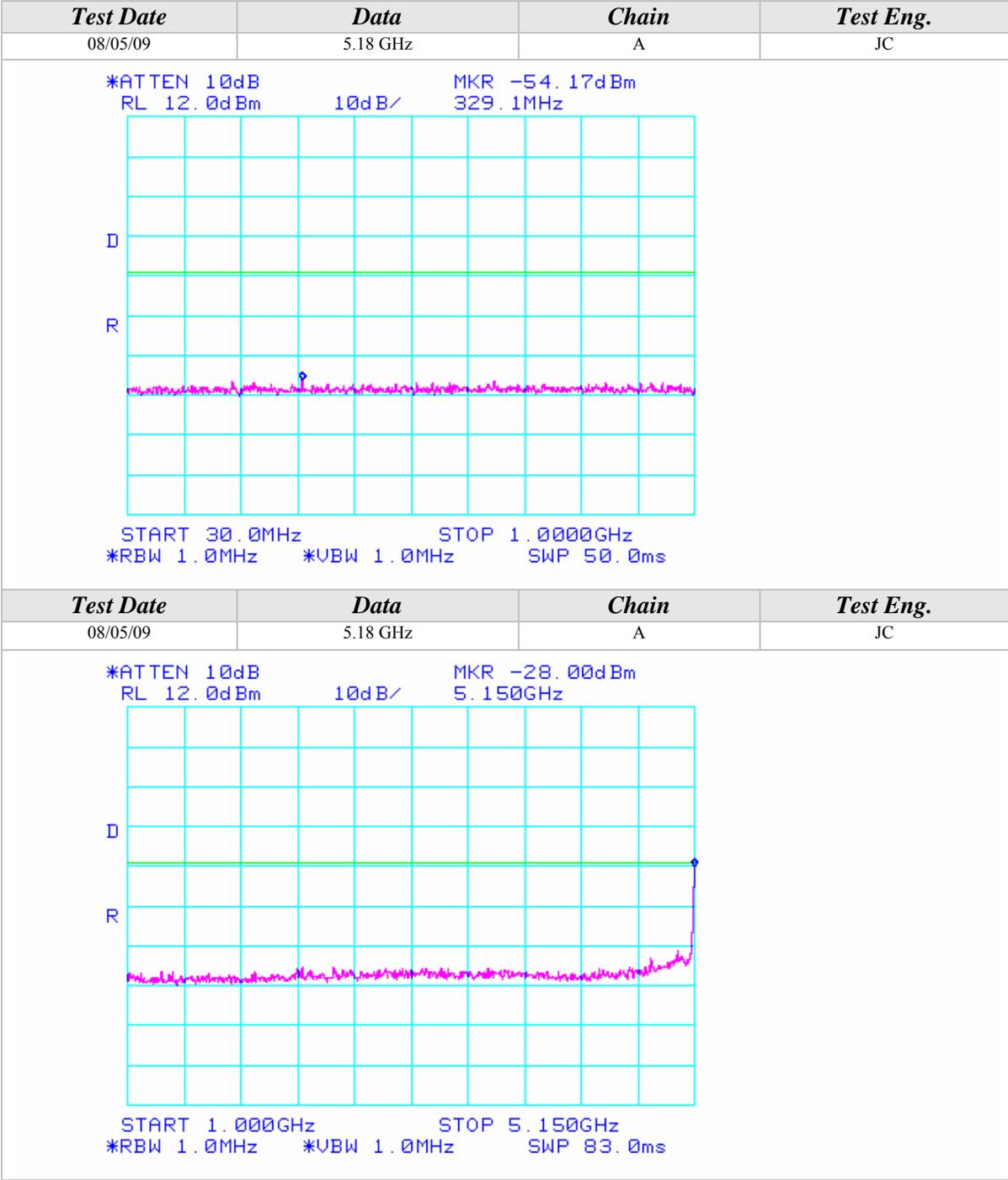
#### 802.11a Mode





### Conducted Out Of Band Emissions (Continued)

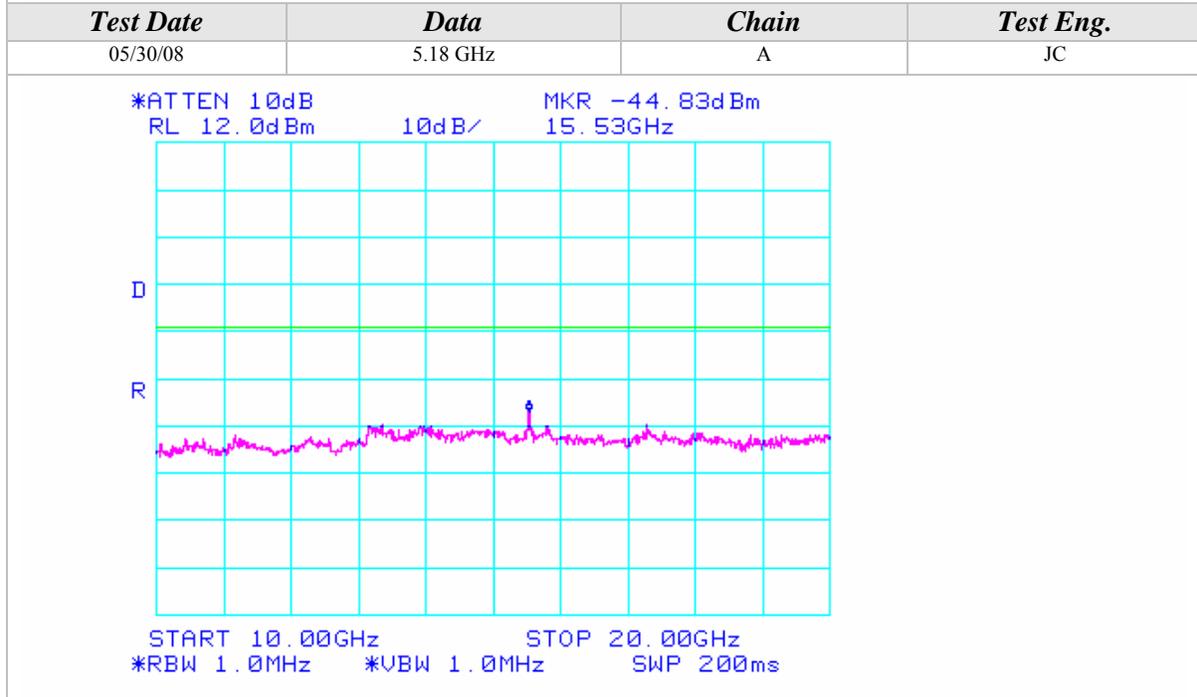
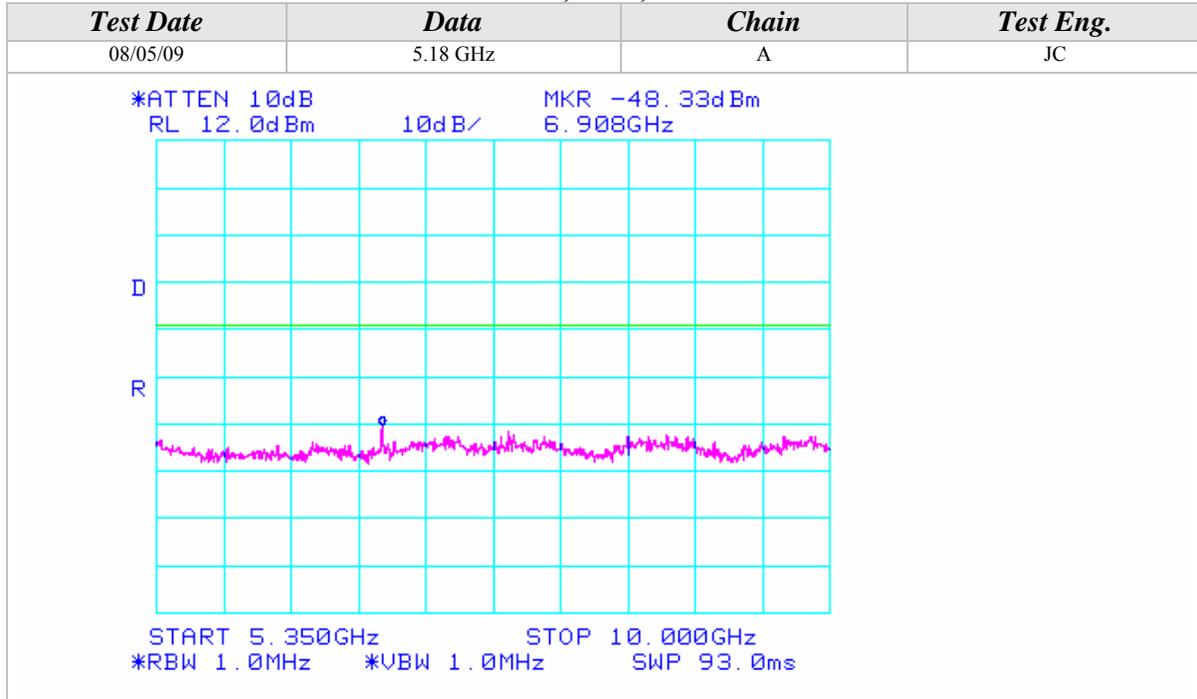
#### 802.11n Mode, 5GHz, 20MHz Wide





Conducted Out Of Band Emissions (Continued)

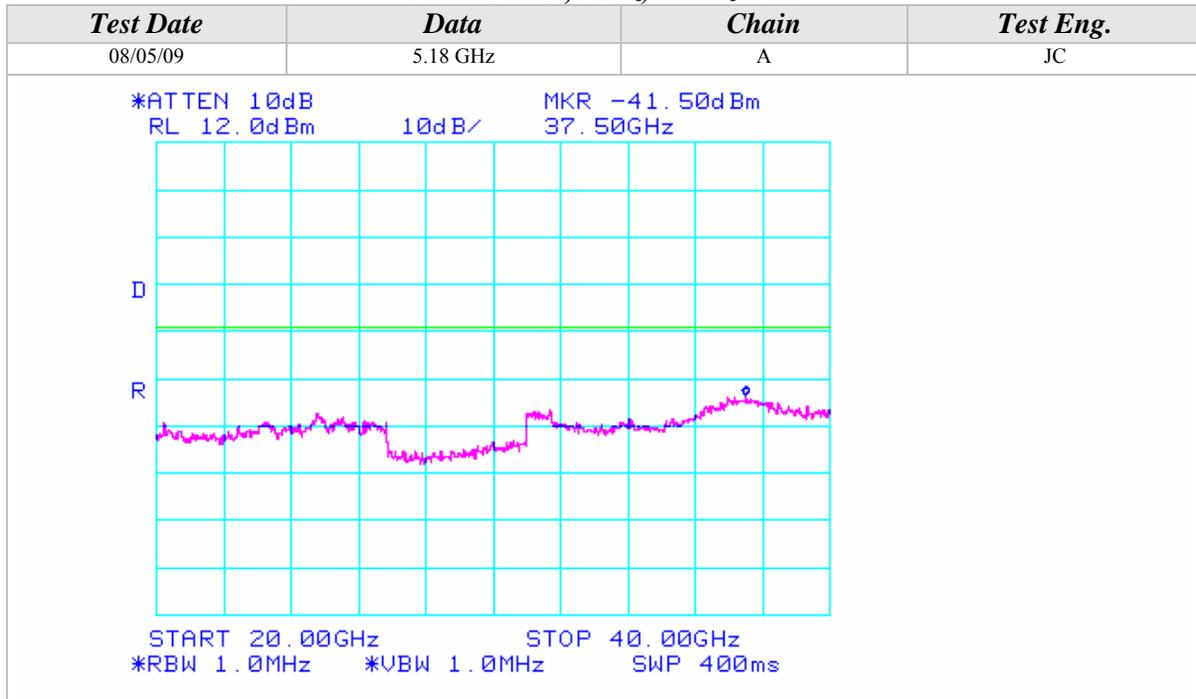
802.11n Mode, 5GHz, 20MHz Wide





## Conducted Out Of Band Emissions (Continued)

## 802.11n Mode, 5GHz, 20MHz Wide





### Conducted Out Of Band Emissions (Continued)

#### 802.11n Mode, 5GHz, 20MHz Wide

| <i>Test Date</i>                                                                                                                                                                                                                                                                                                                                | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|------------------|
| 08/05/09                                                                                                                                                                                                                                                                                                                                        | 5.20 GHz    | A            | JC               |
| <p>*ATTEN 10dB                                  MKR -54.50dBm<br/>RL 12.0dBm                                  10dB/                                  907.9MHz</p> <p>START 30.0MHz                                  STOP 1.0000GHz<br/>*RBW 1.0MHz                                  *VBW 1.0MHz                                  SWP 50.0ms</p> |             |              |                  |
| <i>Test Date</i>                                                                                                                                                                                                                                                                                                                                | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
| 08/05/09                                                                                                                                                                                                                                                                                                                                        | 5.20 GHz    | A            | JC               |
| <p>*ATTEN 10dB                                  MKR -42.83dBm<br/>RL 12.0dBm                                  10dB/                                  5.150GHz</p> <p>START 1.000GHz                                  STOP 5.150GHz<br/>*RBW 1.0MHz                                  *VBW 1.0MHz                                  SWP 83.0ms</p> |             |              |                  |

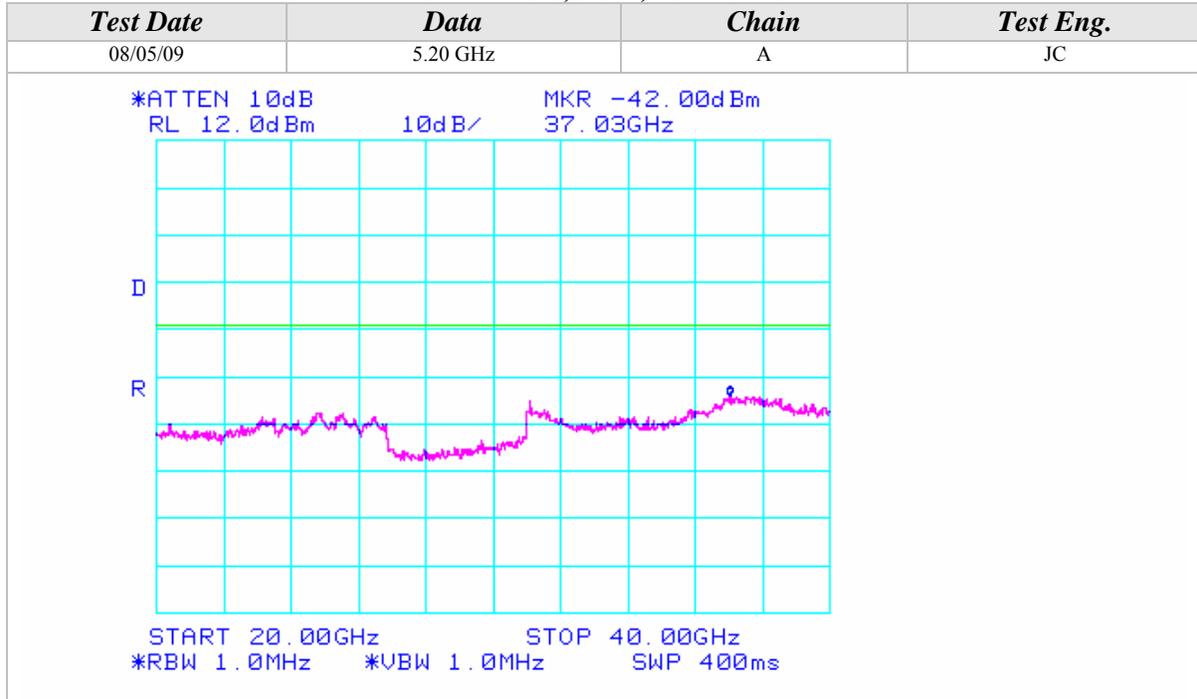
### Conducted Out Of Band Emissions (Continued)

#### 802.11n Mode, 5GHz, 20MHz Wide

| Test Date                                                                                                                                                                                                                                                                                    | Data     | Chain | Test Eng. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-----------|
| 08/05/09                                                                                                                                                                                                                                                                                     | 5.20 GHz | A     | JC        |
| <p>*ATTEN 10dB                      MKR -48.33dBm<br/>           RL 12.0dBm                    10dB/                      6.931GHz</p> <p>START 5.350GHz                      STOP 10.000GHz<br/>           *RBW 1.0MHz                      *VBW 1.0MHz                      SWP 93.0ms</p> |          |       |           |
| Test Date                                                                                                                                                                                                                                                                                    | Data     | Chain | Test Eng. |
| 08/05/09                                                                                                                                                                                                                                                                                     | 5.20 GHz | A     | JC        |
| <p>*ATTEN 10dB                      MKR -45.00dBm<br/>           RL 12.0dBm                    10dB/                      15.60GHz</p> <p>START 10.00GHz                      STOP 20.00GHz<br/>           *RBW 1.0MHz                      *VBW 1.0MHz                      SWP 200ms</p>   |          |       |           |

Conducted Out Of Band Emissions (Continued)

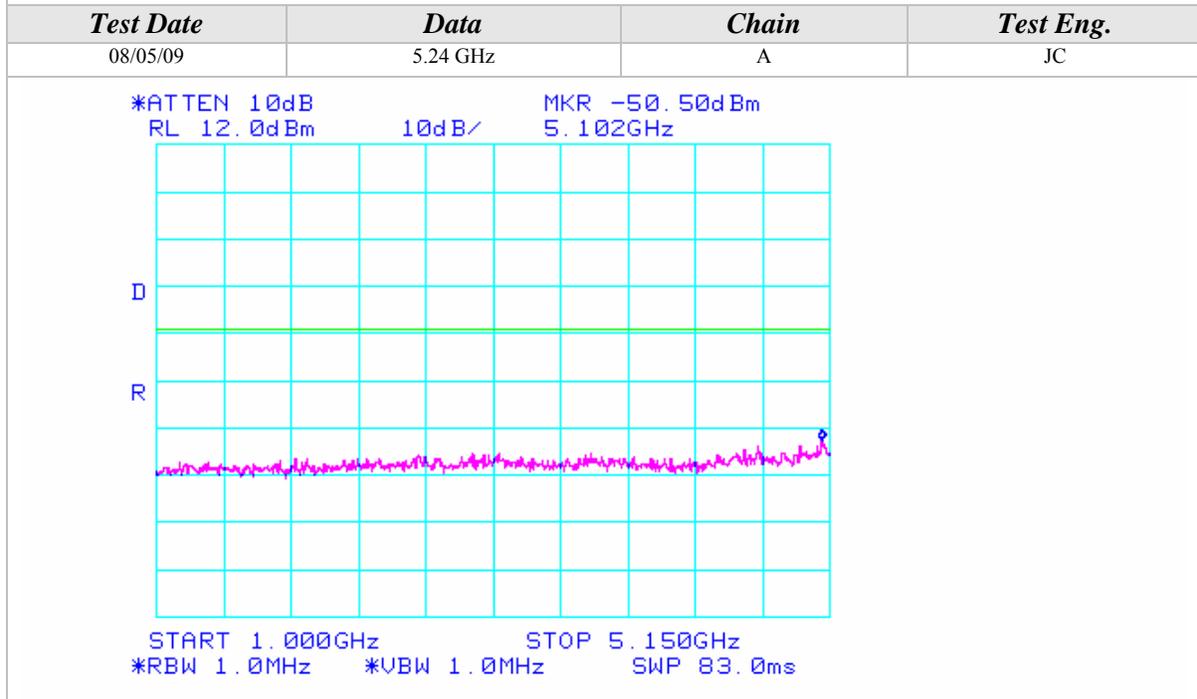
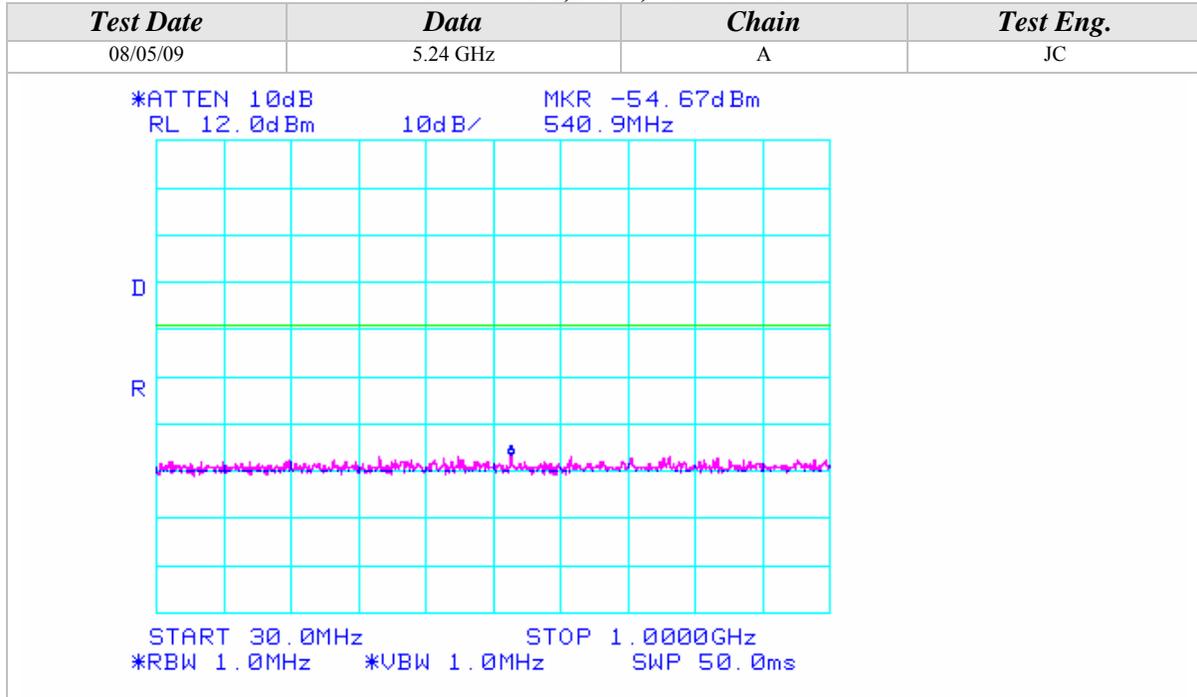
802.11n Mode, 5GHz, 20MHz Wide





Conducted Out Of Band Emissions (Continued)

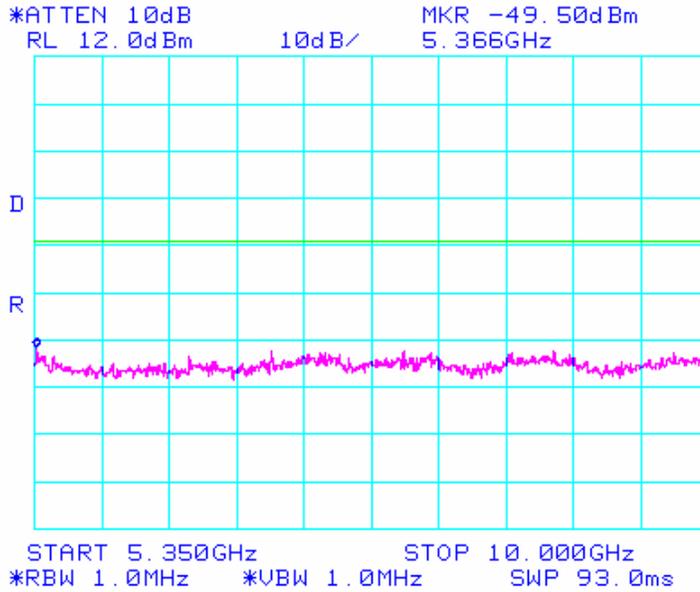
802.11n Mode, 5GHz, 20MHz Wide



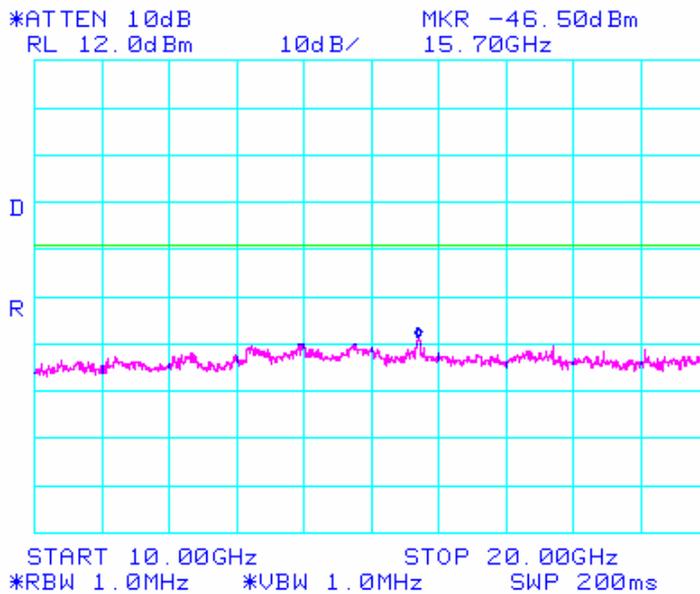
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

| <i>Test Date</i> | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
|------------------|-------------|--------------|------------------|
| 08/05/09         | 5.24 GHz    | A            | JC               |



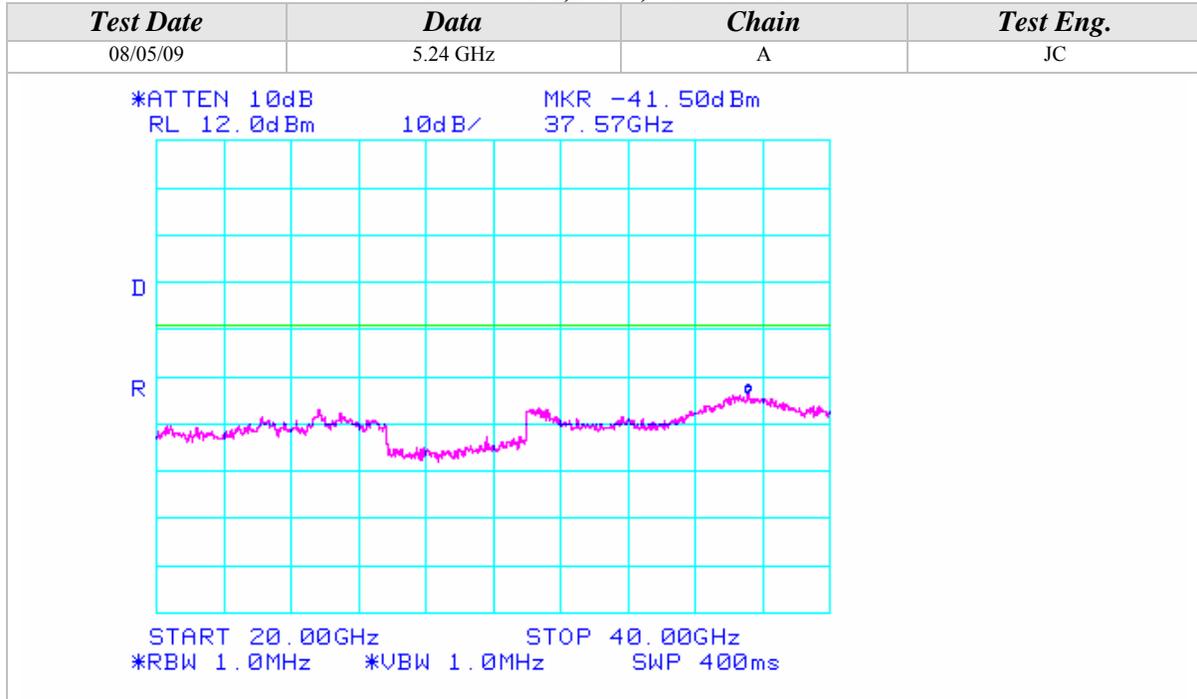
| <i>Test Date</i> | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
|------------------|-------------|--------------|------------------|
| 08/05/09         | 5.24 GHz    | A            | JC               |





### Conducted Out Of Band Emissions (Continued)

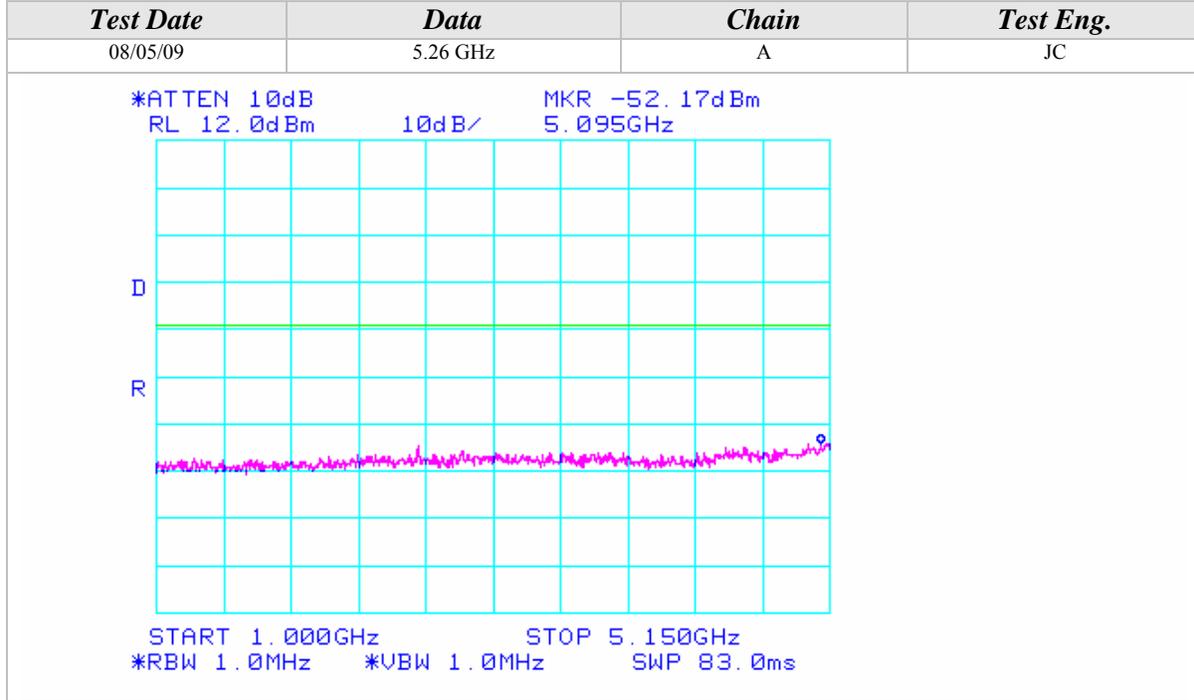
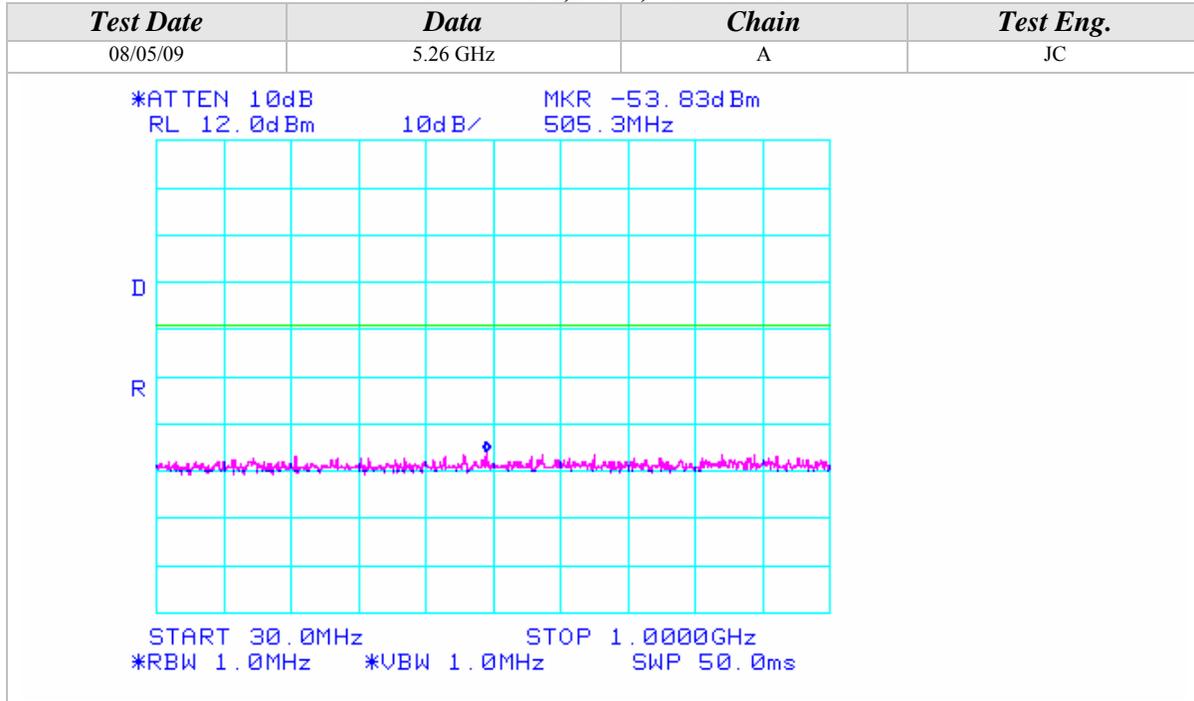
#### 802.11n Mode, 5GHz, 20MHz Wide





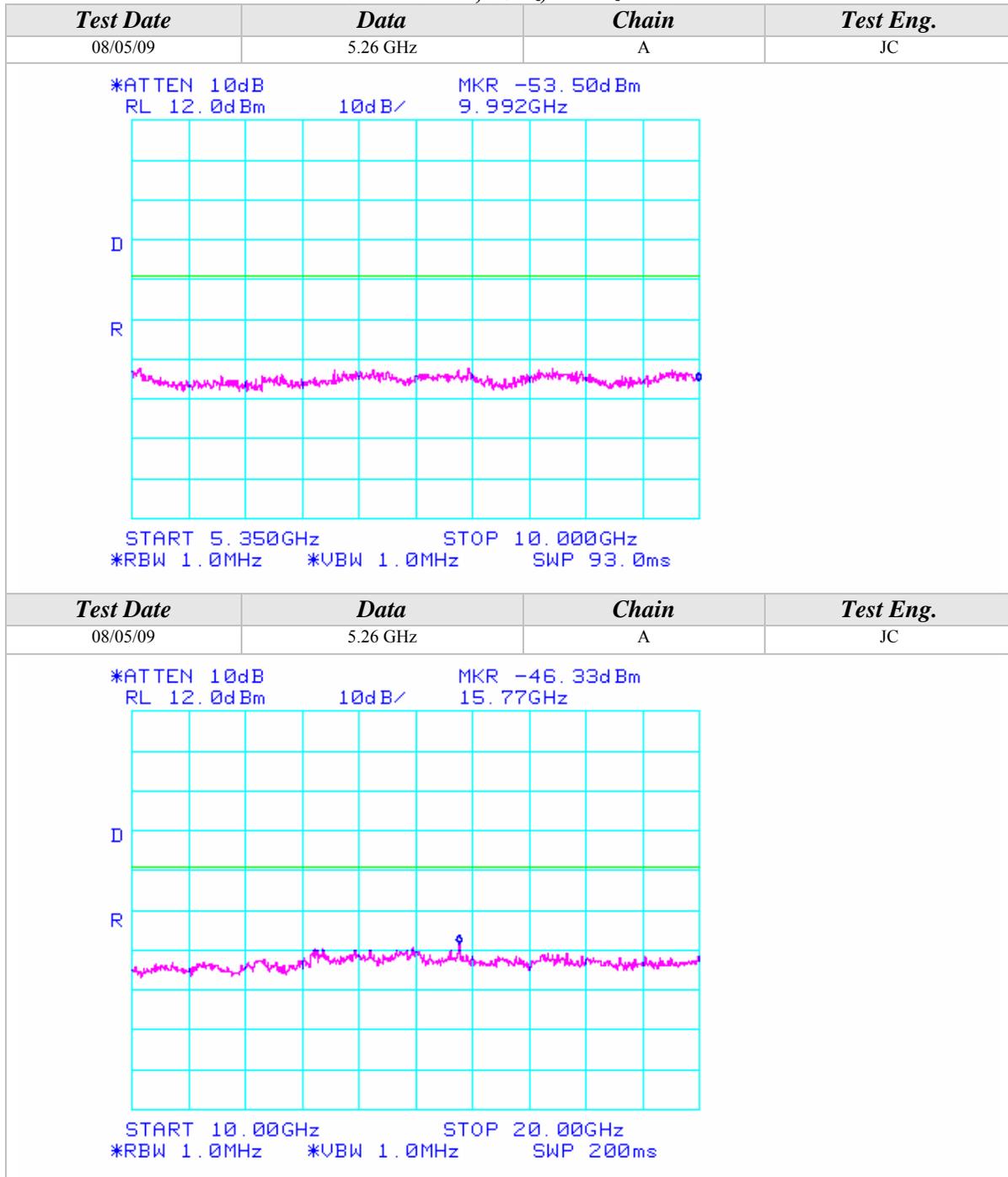
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide



## Conducted Out Of Band Emissions (Continued)

## 802.11n Mode, 5GHz, 20MHz Wide



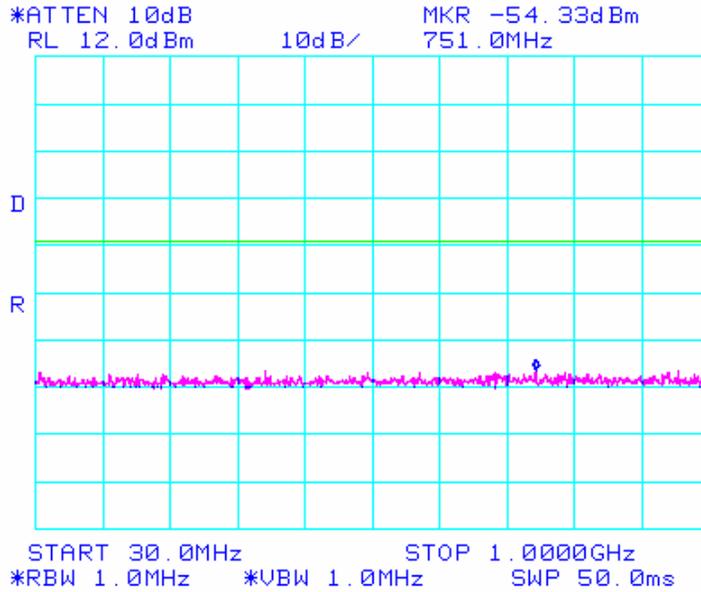




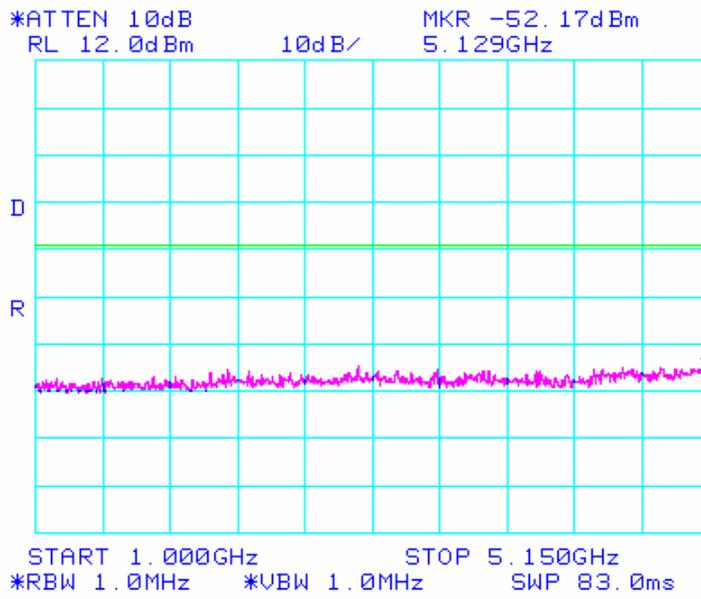
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

| <b>Test Date</b> | <b>Data</b> | <b>Chain</b> | <b>Test Eng.</b> |
|------------------|-------------|--------------|------------------|
| 08/05/09         | 5.28 GHz    | A            | JC               |



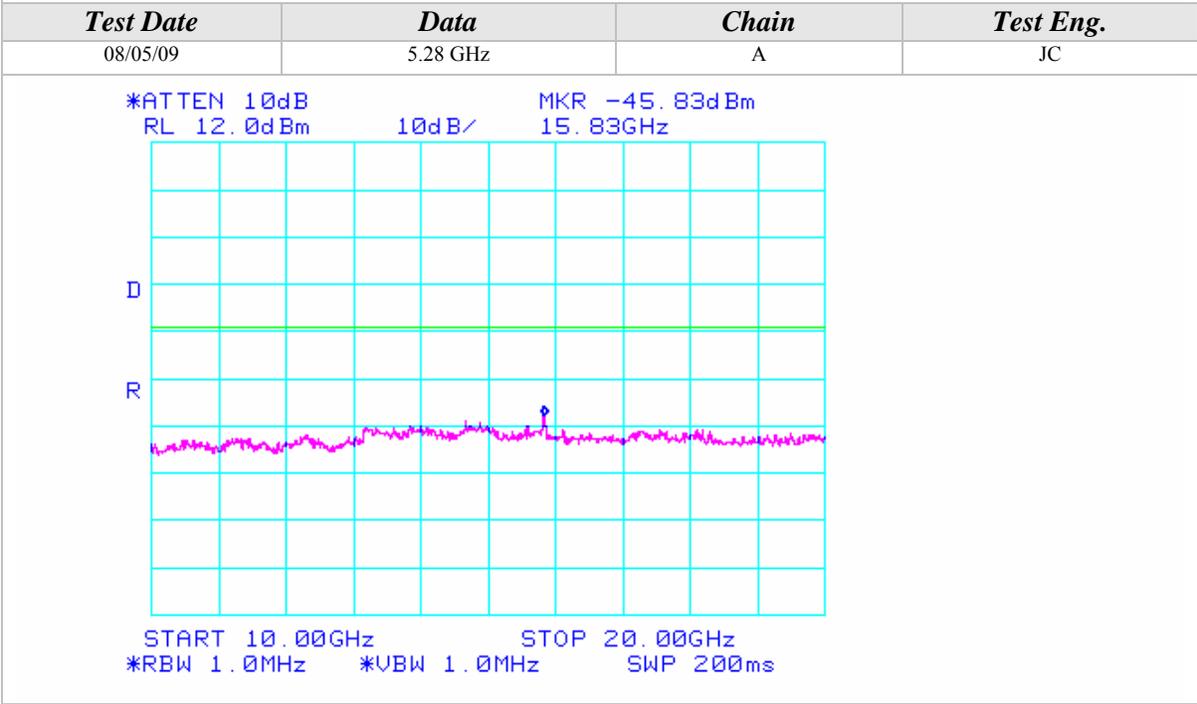
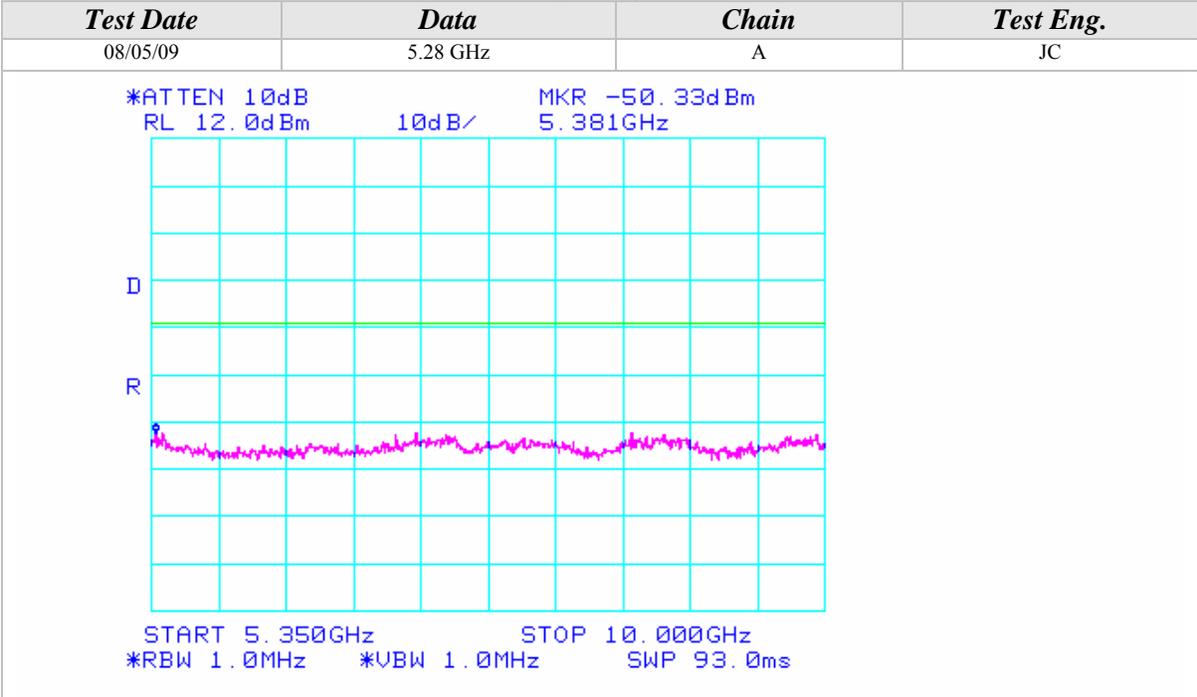
| <b>Test Date</b> | <b>Data</b> | <b>Chain</b> | <b>Test Eng.</b> |
|------------------|-------------|--------------|------------------|
| 08/05/09         | 5.28 GHz    | A            | JC               |





Conducted Out Of Band Emissions (Continued)

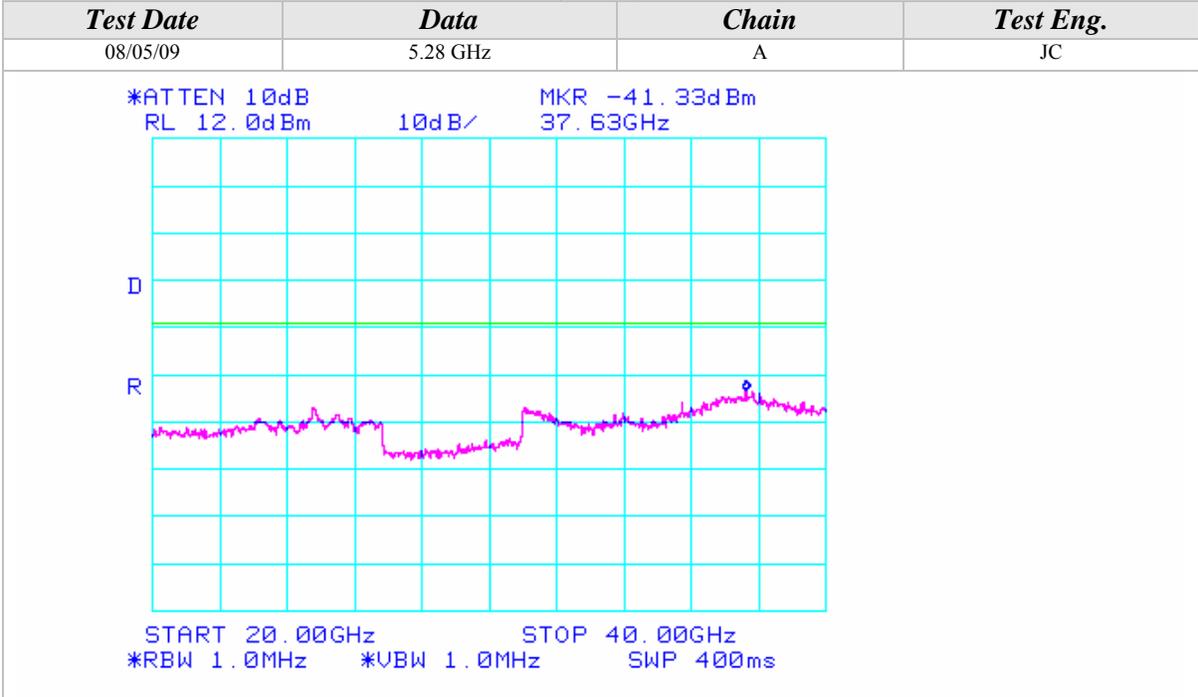
802.11n Mode, 5GHz, 20MHz Wide





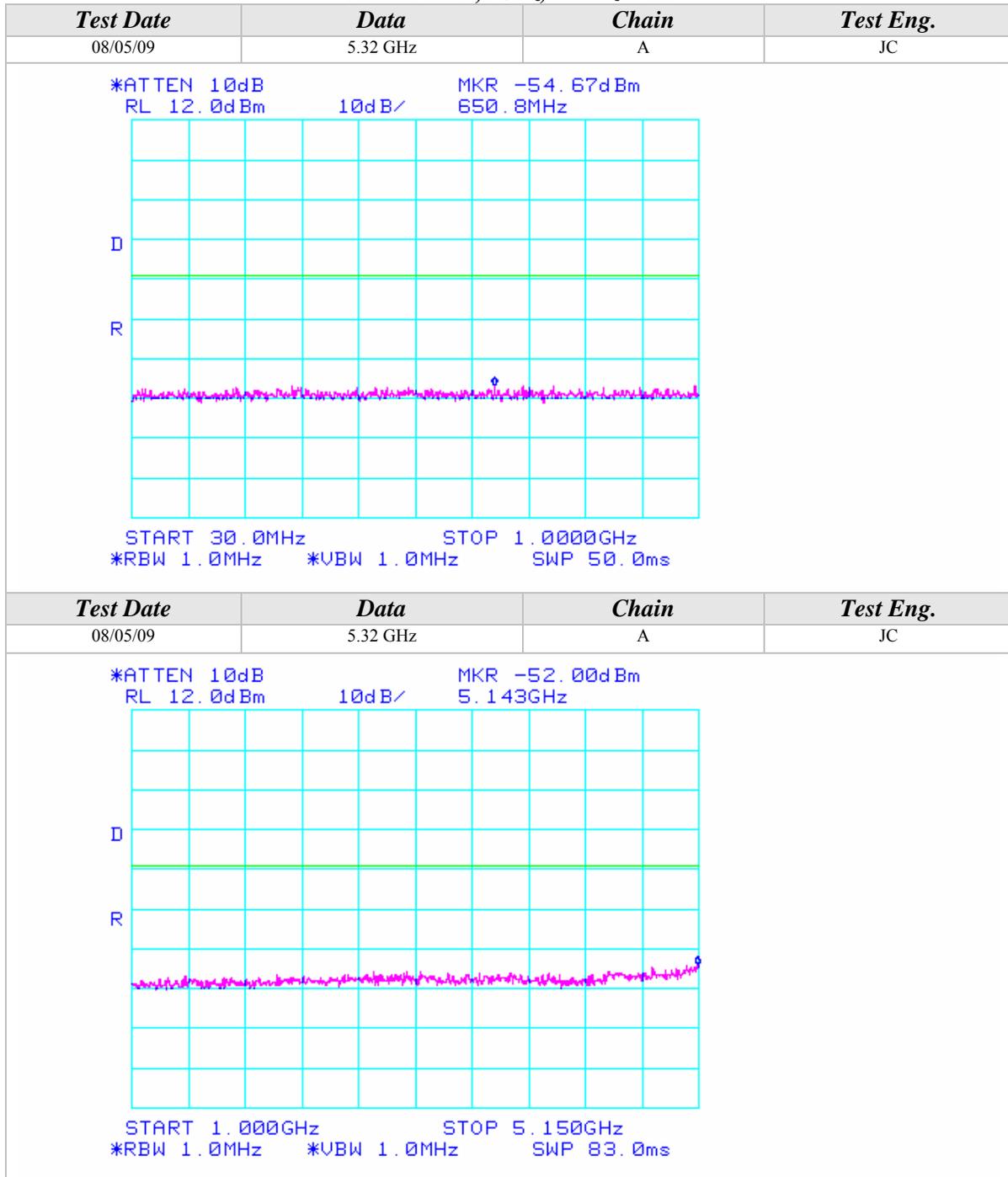
### Conducted Out Of Band Emissions (Continued)

#### 802.11n Mode, 5GHz, 20MHz Wide



Conducted Out Of Band Emissions (Continued)

*802.11n Mode, 5GHz, 20MHz Wide*





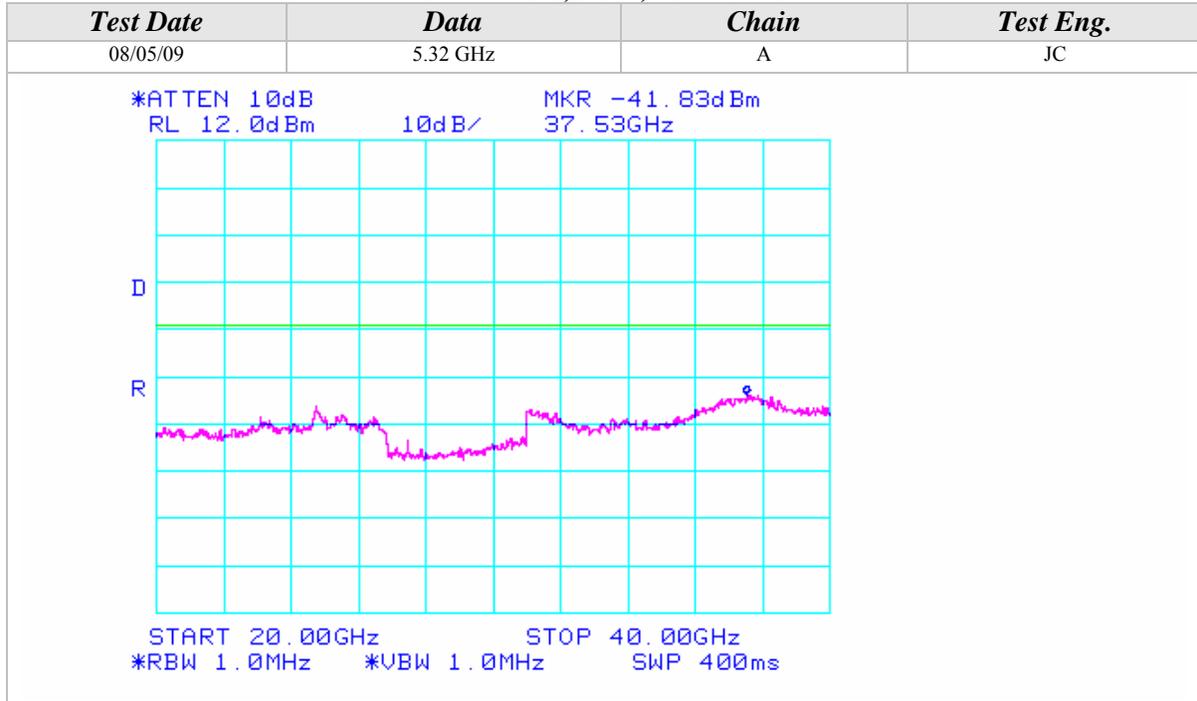
Conducted Out Of Band Emissions (Continued)

*802.11n Mode, 5GHz, 20MHz Wide*

| <i><b>Test Date</b></i>                                                                                                                                                                                                                                                                                         | <i><b>Data</b></i> | <i><b>Chain</b></i> | <i><b>Test Eng.</b></i> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------|-------------------------|
| 08/05/09                                                                                                                                                                                                                                                                                                        | 5.32 GHz           | A                   | JC                      |
| <p>*ATTEN 10dB                          MKR -38.50dBm<br/>RL 12.0dBm                          10dB/                          5.350GHz</p> <p>D<br/>R</p> <p>START 5.350GHz                          STOP 10.000GHz<br/>*RBW 1.0MHz                          *VBW 1.0MHz                          SWP 93.0ms</p> |                    |                     |                         |
| <i><b>Test Date</b></i>                                                                                                                                                                                                                                                                                         | <i><b>Data</b></i> | <i><b>Chain</b></i> | <i><b>Test Eng.</b></i> |
| 08/05/09                                                                                                                                                                                                                                                                                                        | 5.32 GHz           | A                   | JC                      |
| <p>*ATTEN 10dB                          MKR -47.33dBm<br/>RL 12.0dBm                          10dB/                          15.97GHz</p> <p>D<br/>R</p> <p>START 10.000GHz                          STOP 20.000GHz<br/>*RBW 1.0MHz                          *VBW 1.0MHz                          SWP 200ms</p> |                    |                     |                         |

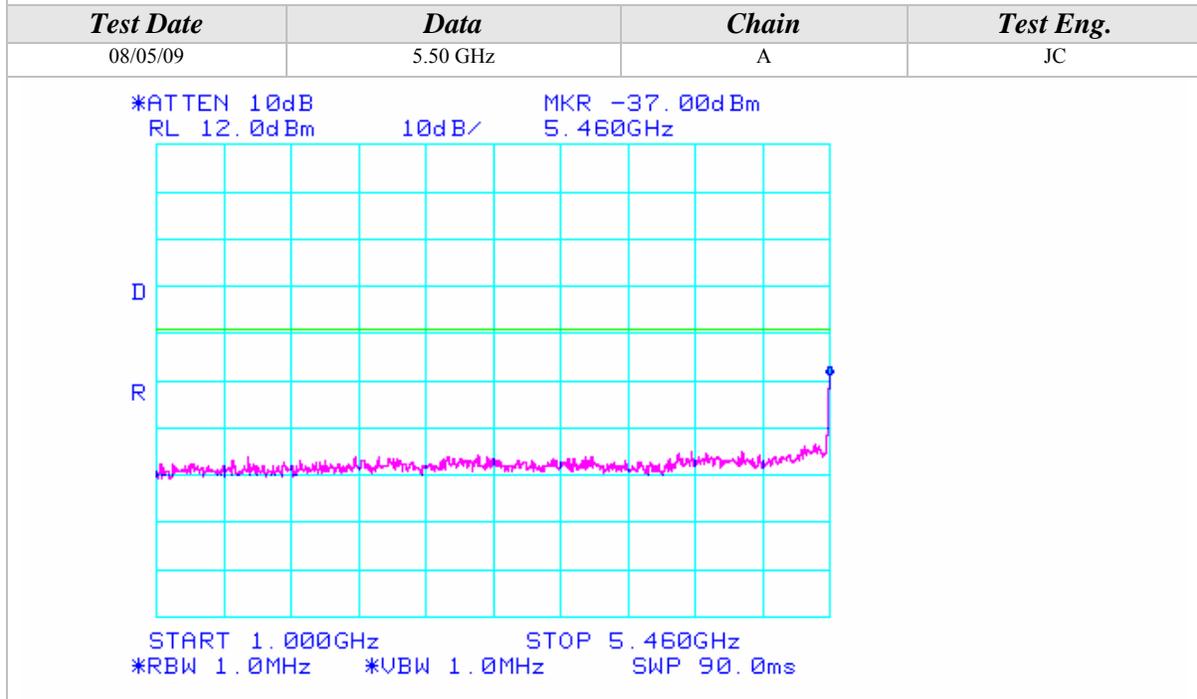
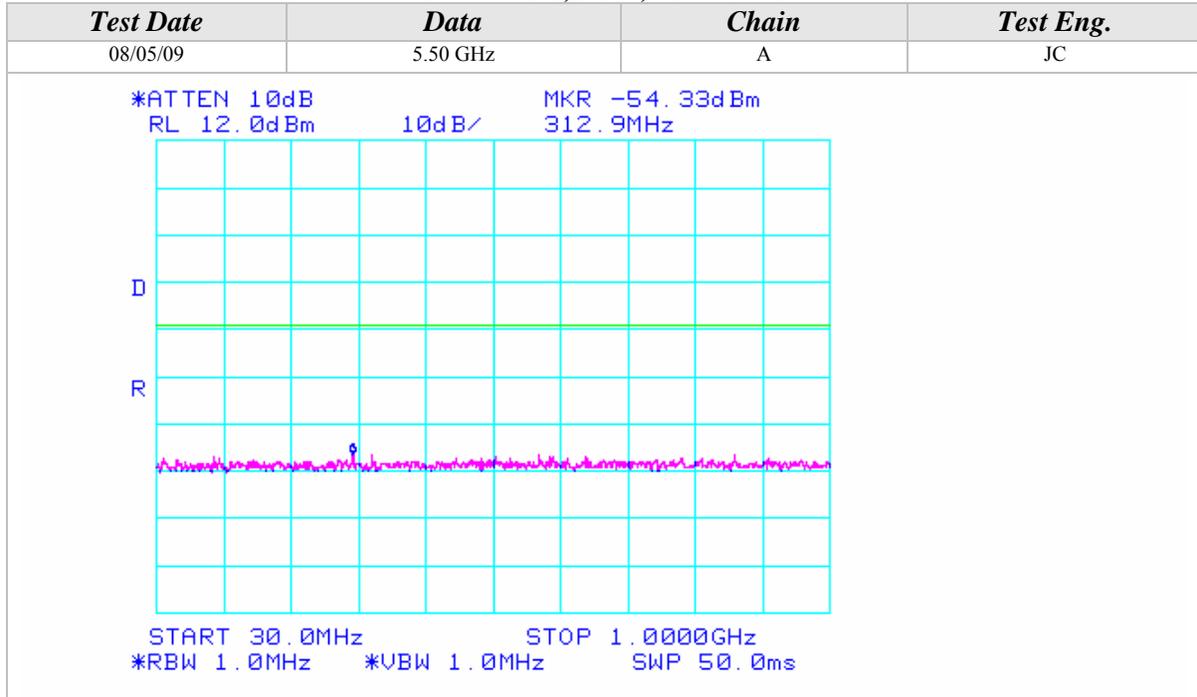
### Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide



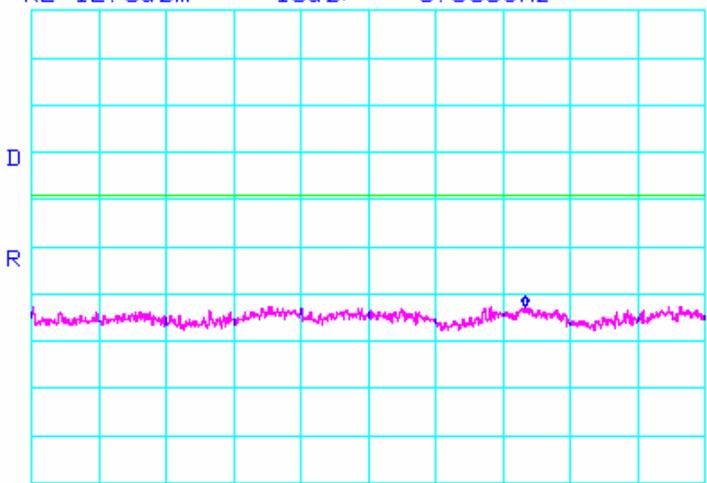
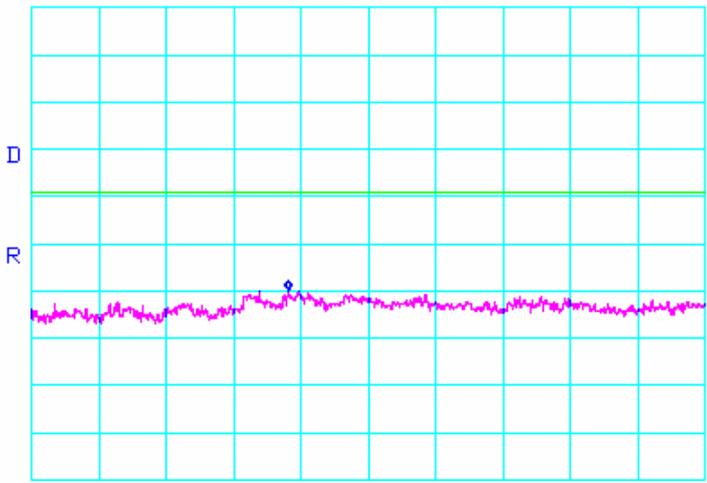
Conducted Out Of Band Emissions (Continued)

*802.11n Mode, 5GHz, 20MHz Wide*



## Conducted Out Of Band Emissions (Continued)

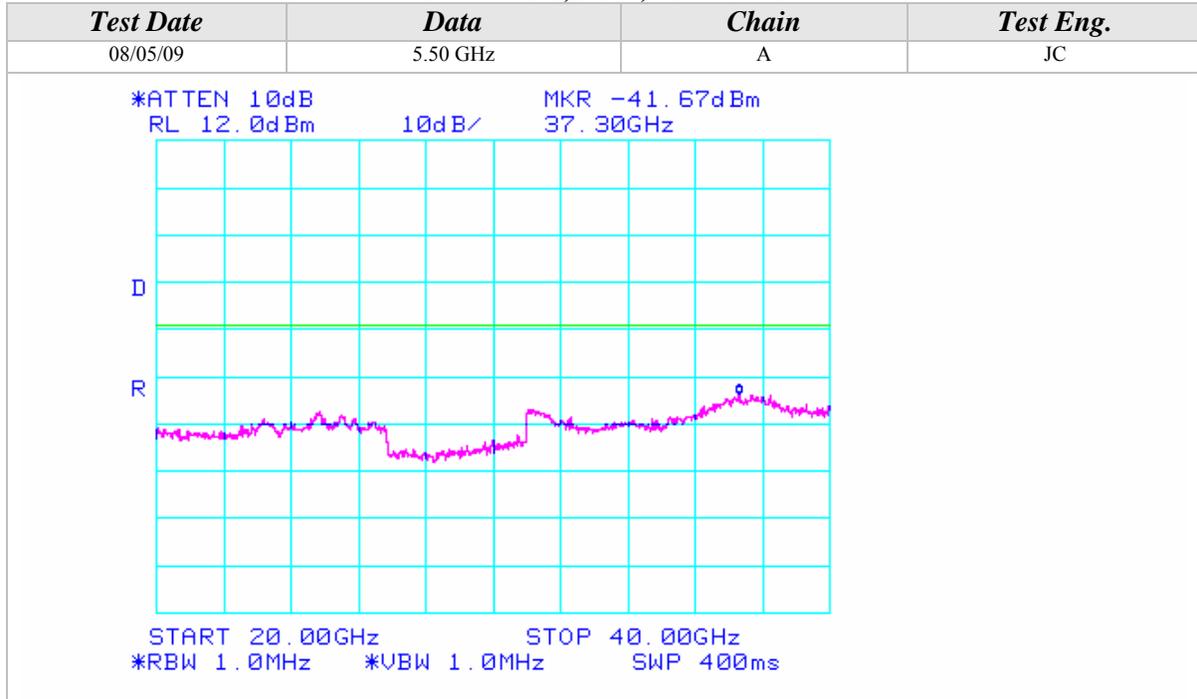
## 802.11n Mode, 5GHz, 20MHz Wide

| <i>Test Date</i>                                                                                                                                                                                                                                                                                                         | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|------------------|
| 08/05/09                                                                                                                                                                                                                                                                                                                 | 5.50 GHz    | A            | JC               |
| <div style="font-family: monospace; font-size: small;">                     *ATTEN 10dB                      MKR -50.50dBm<br/>                     RL 12.0dBm                      10dB/                      8.860GHz<br/>  </div>   |             |              |                  |
| START 5.725GHz                      STOP 10.000GHz<br>*RBW 1.0MHz                      *VBW 1.0MHz                      SWP 86.0ms                                                                                                                                                                                       |             |              |                  |
| <i>Test Date</i>                                                                                                                                                                                                                                                                                                         | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
| 08/05/09                                                                                                                                                                                                                                                                                                                 | 5.50 GHz    | A            | JC               |
| <div style="font-family: monospace; font-size: small;">                     *ATTEN 10dB                      MKR -47.83dBm<br/>                     RL 12.0dBm                      10dB/                      13.82GHz<br/>  </div> |             |              |                  |
| START 10.00GHz                      STOP 20.00GHz<br>*RBW 1.0MHz                      *VBW 1.0MHz                      SWP 200ms                                                                                                                                                                                         |             |              |                  |



Conducted Out Of Band Emissions (Continued)

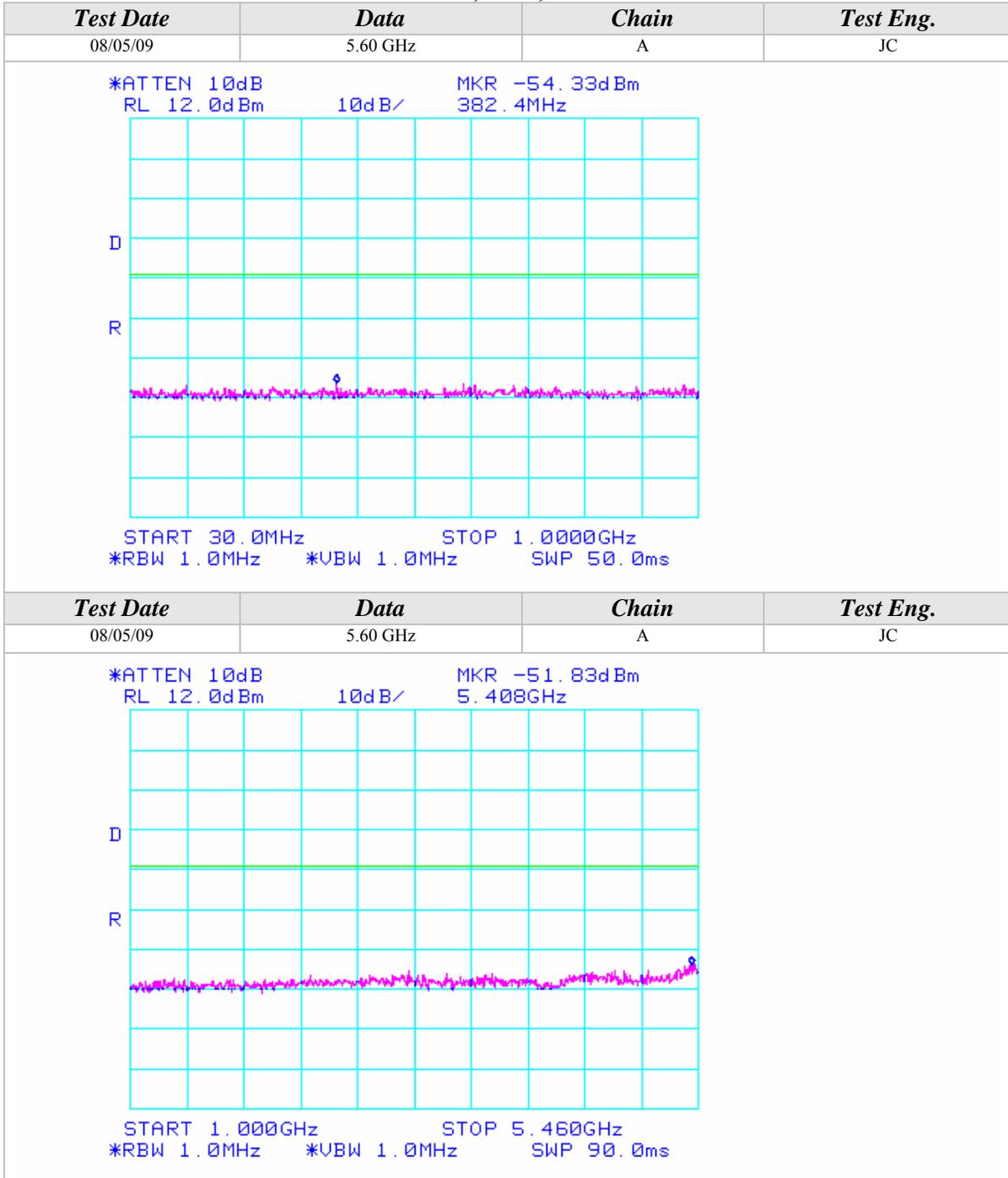
802.11n Mode, 5GHz, 20MHz Wide





Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide





### Conducted Out Of Band Emissions (Continued)

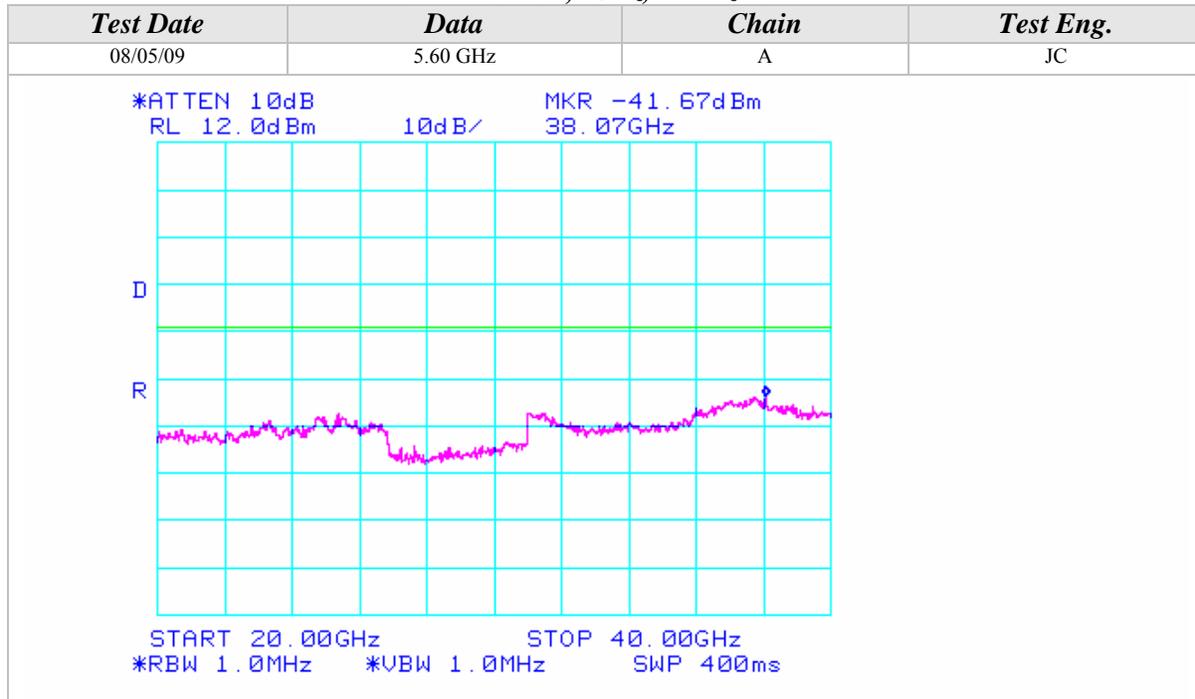
#### 802.11n Mode, 5GHz, 20MHz Wide

| <i>Test Date</i>                                                                   | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
|------------------------------------------------------------------------------------|-------------|--------------|------------------|
| 08/05/09                                                                           | 5.60 GHz    | A            | JC               |
| *ATTEN 10dB      MKR -49.50dBm<br>RL 12.0dBm      10dB/      8.034GHz              |             |              |                  |
|                                                                                    |             |              |                  |
| START 5.725GHz      STOP 10.000GHz<br>*RBW 1.0MHz      *VBW 1.0MHz      SWP 86.0ms |             |              |                  |
| <i>Test Date</i>                                                                   | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
| 08/05/09                                                                           | 5.60 GHz    | A            | JC               |
| *ATTEN 10dB      MKR -47.17dBm<br>RL 12.0dBm      10dB/      13.17GHz              |             |              |                  |
|                                                                                    |             |              |                  |
| START 10.00GHz      STOP 20.00GHz<br>*RBW 1.0MHz      *VBW 1.0MHz      SWP 200ms   |             |              |                  |



### Conducted Out Of Band Emissions (Continued)

#### 802.11n Mode, 5GHz, 20MHz Wide





Conducted Out Of Band Emissions (Continued)

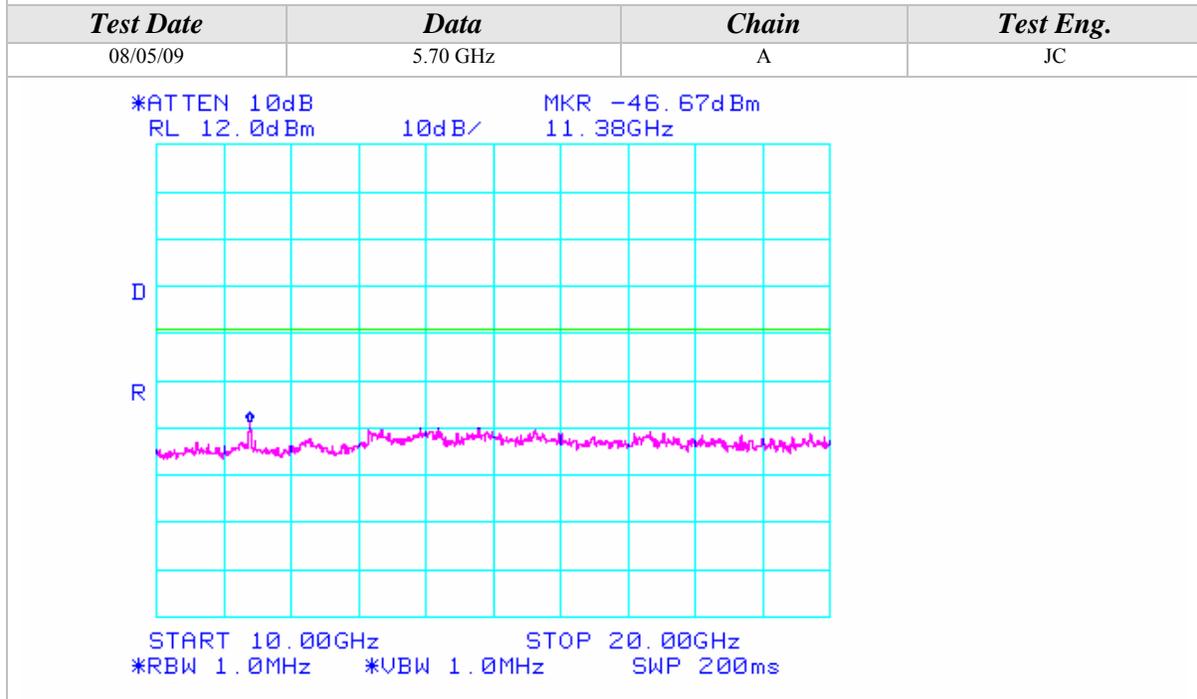
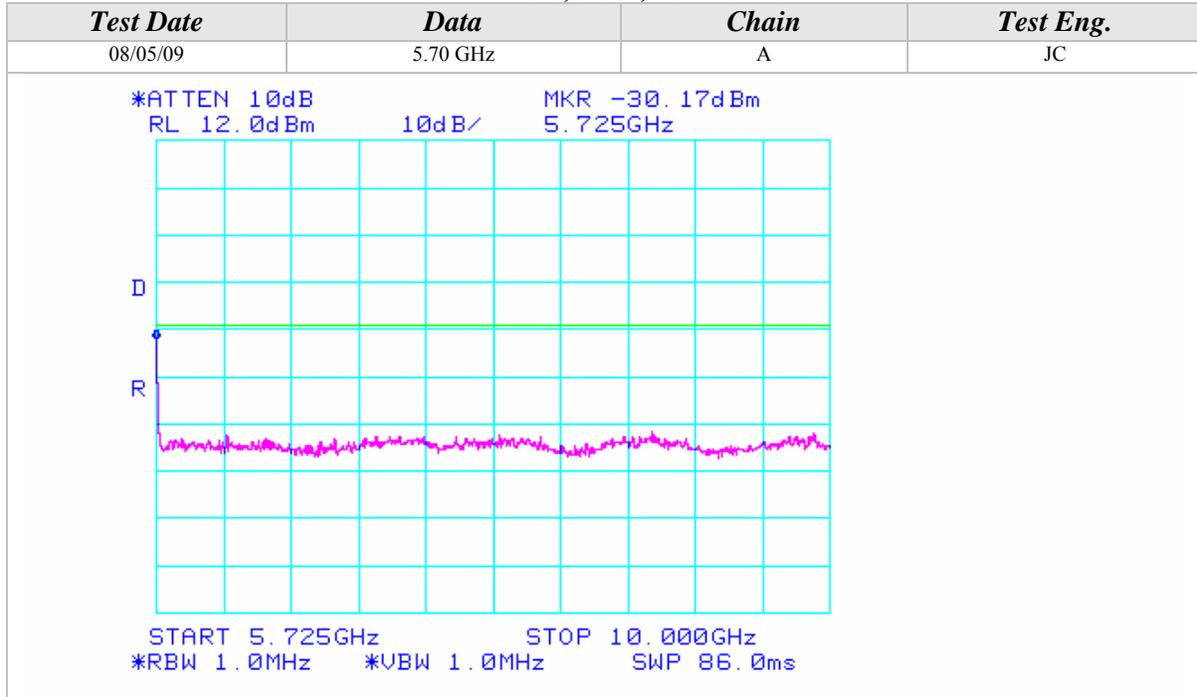
802.11n Mode, 5GHz, 20MHz Wide

| <i>Test Date</i>                                                                                                                                                                                                                                                                                                     | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|------------------|
| 08/05/09                                                                                                                                                                                                                                                                                                             | 5.70 GHz    | A            | JC               |
| <p>*ATTEN 10dB                          MKR -54.50dBm<br/>           RL 12.0dB                          10dB/                          893.3MHz</p> <p>START 30.0MHz                          STOP 1.0000GHz<br/>           *RBW 1.0MHz                          *VBW 1.0MHz                          SWP 50.0ms</p> |             |              |                  |
| <i>Test Date</i>                                                                                                                                                                                                                                                                                                     | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
| 08/05/09                                                                                                                                                                                                                                                                                                             | 5.70 GHz    | A            | JC               |
| <p>*ATTEN 10dB                          MKR -50.83dBm<br/>           RL 12.0dB                          10dB/                          5.430GHz</p> <p>START 1.000GHz                          STOP 5.460GHz<br/>           *RBW 1.0MHz                          *VBW 1.0MHz                          SWP 90.0ms</p> |             |              |                  |



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide



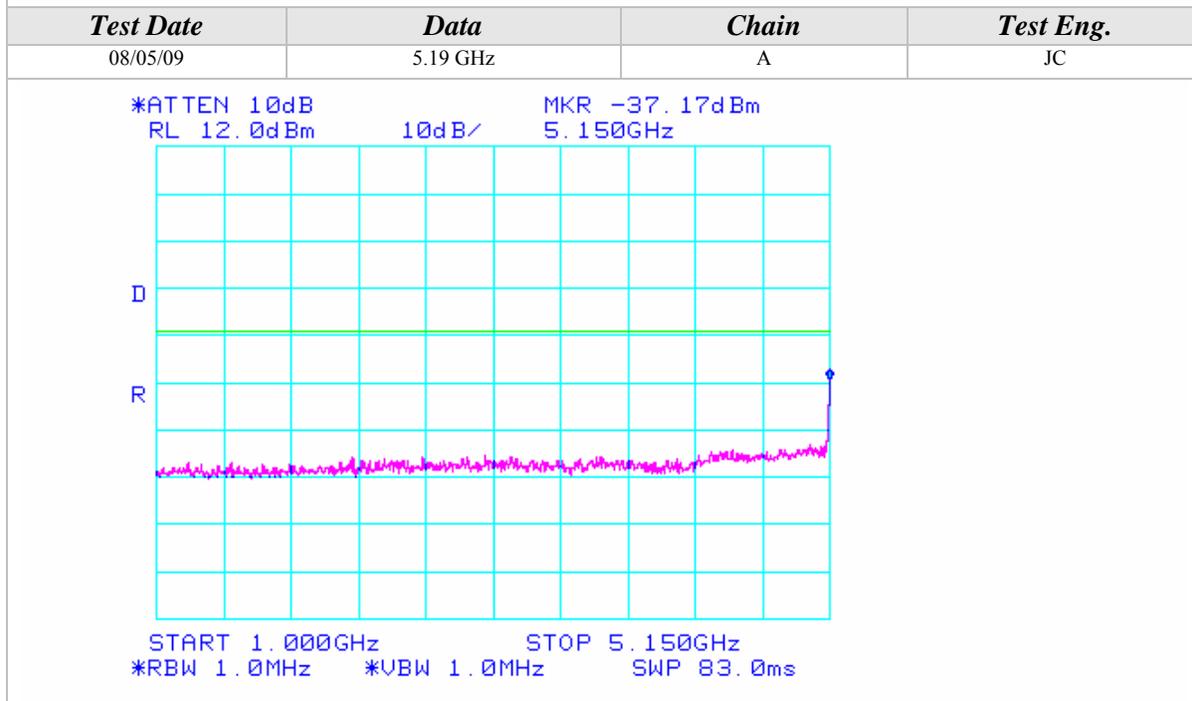
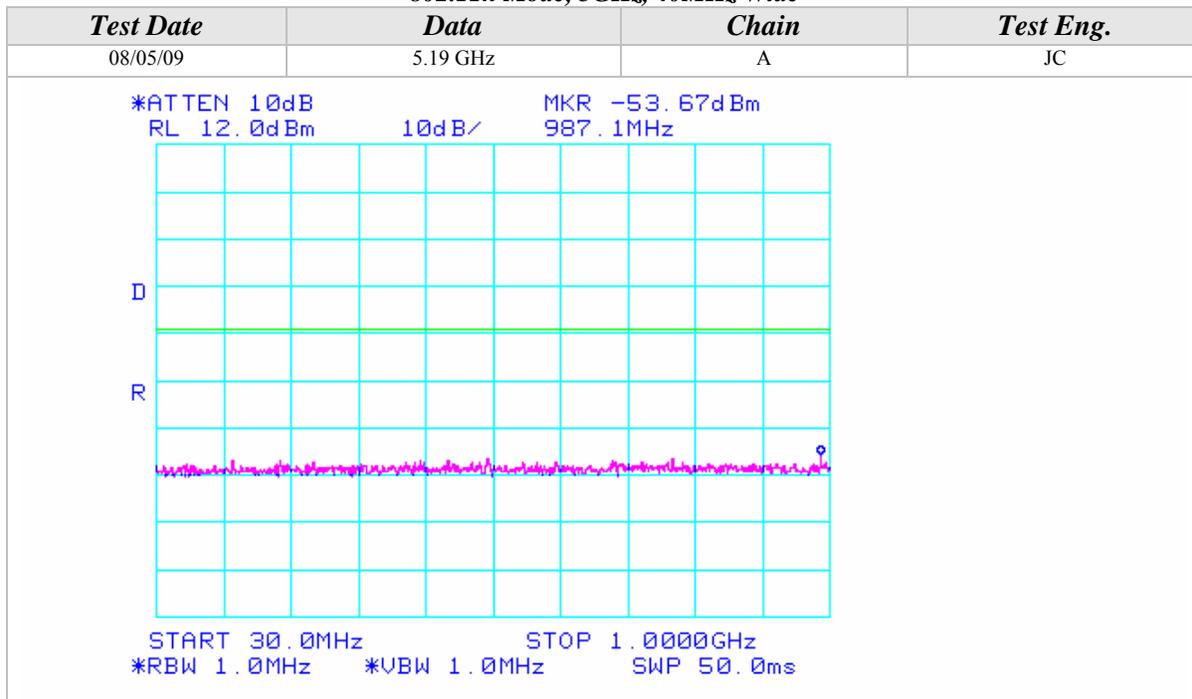
Conducted Out Of Band Emissions (Continued)

**802.11n Mode, 5GHz, 20MHz Wide**

| <i>Test Date</i>                                                                                                                                                       | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|------------------|
| 08/05/09                                                                                                                                                               | 5.70 GHz    | A            | JC               |
| <p>*ATTEN 10dB      MKR -41.67dBm<br/>RL 12.0dBm      10dB/      37.33GHz</p> <p>START 20.00GHz      STOP 40.00GHz<br/>*RBW 1.0MHz      *VBW 1.0MHz      SWP 400ms</p> |             |              |                  |

Conducted Out Of Band Emissions (Continued)

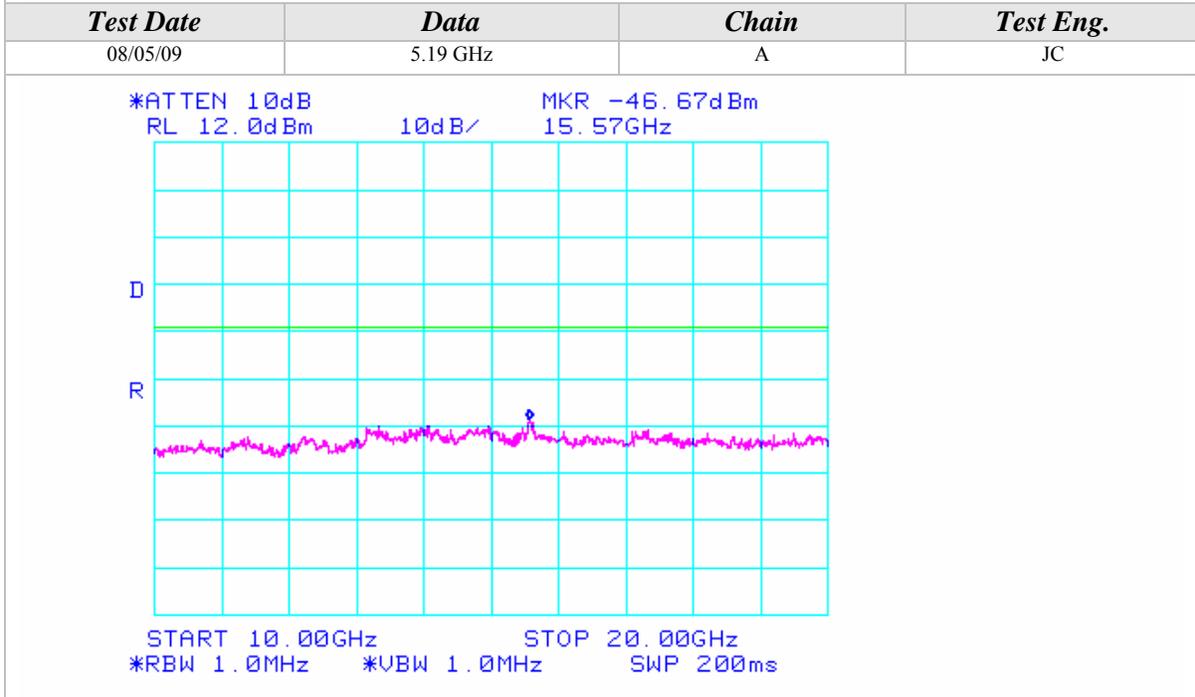
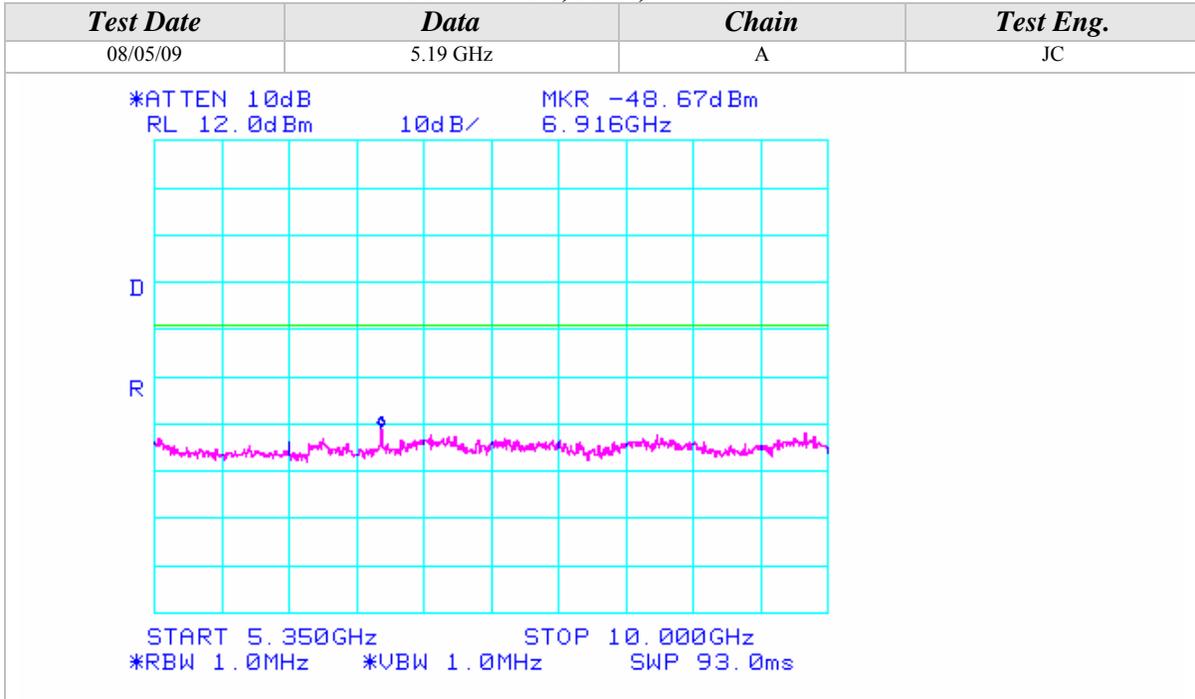
802.11n Mode, 5GHz, 40MHz Wide





Conducted Out Of Band Emissions (Continued)

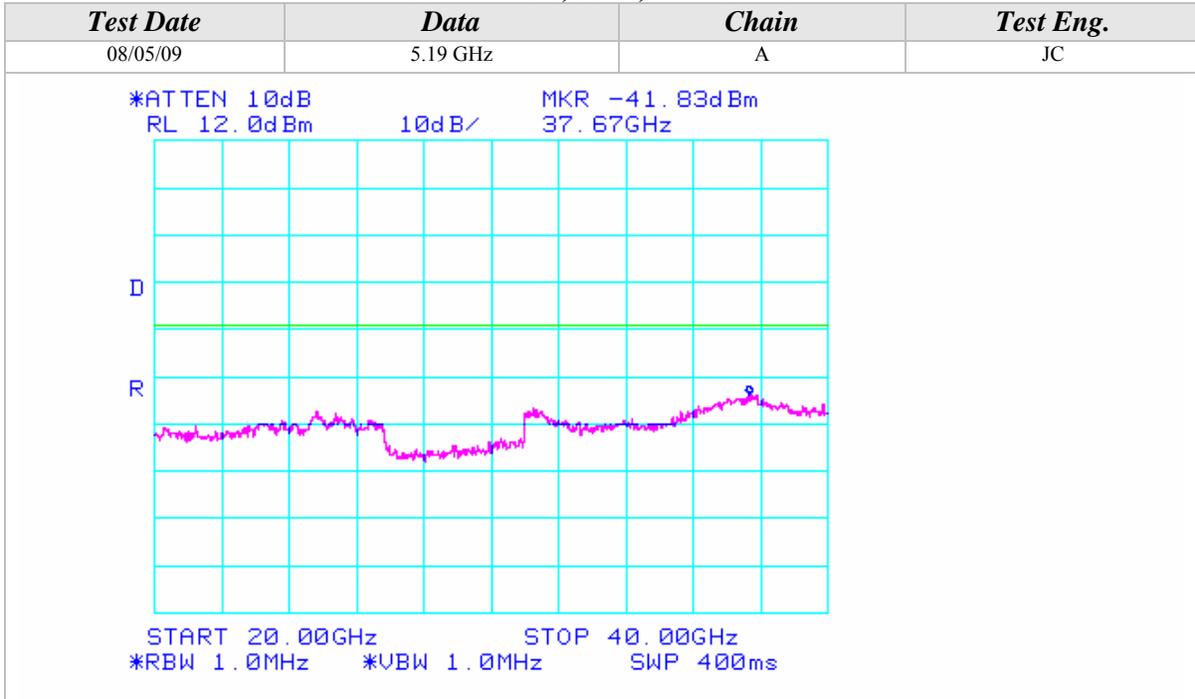
802.11n Mode, 5GHz, 40MHz Wide





Conducted Out Of Band Emissions (Continued)

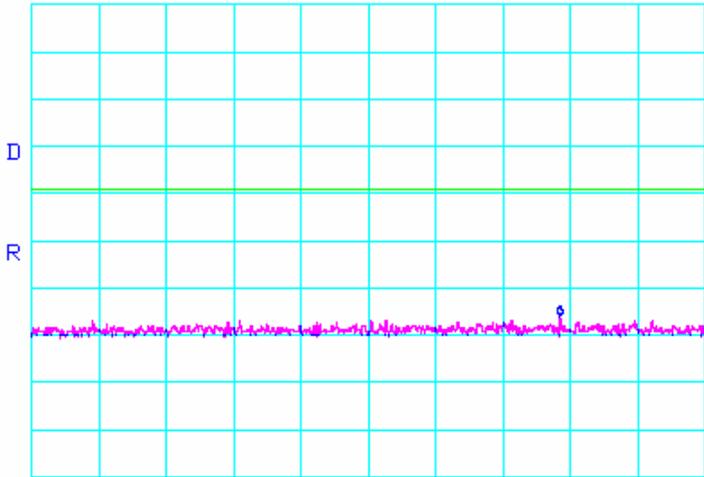
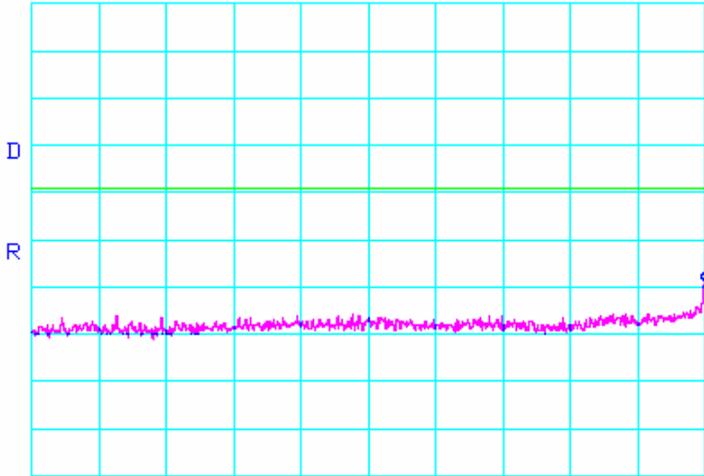
802.11n Mode, 5GHz, 40MHz Wide





Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

| Test Date                                                                                                                                                                                                                                                                                                                                        | Data     | Chain | Test Eng. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-----------|
| 08/05/09                                                                                                                                                                                                                                                                                                                                         | 5.23 GHz | A     | JC        |
| <p>*ATTEN 10dB                    MKR -54.00dBm<br/>RL 12.0dBm                    10dB/                    791.5MHz</p>  <p>START 30.0MHz                    STOP 1.0000GHz<br/>*RBW 1.0MHz                    *VBW 1.0MHz                    SWP 50.0ms</p>   |          |       |           |
| Test Date                                                                                                                                                                                                                                                                                                                                        | Data     | Chain | Test Eng. |
| 08/05/09                                                                                                                                                                                                                                                                                                                                         | 5.23 GHz | A     | JC        |
| <p>*ATTEN 10dB                    MKR -46.83dBm<br/>RL 12.0dBm                    10dB/                    5.150GHz</p>  <p>START 1.000GHz                    STOP 5.150GHz<br/>*RBW 1.0MHz                    *VBW 1.0MHz                    SWP 83.0ms</p> |          |       |           |

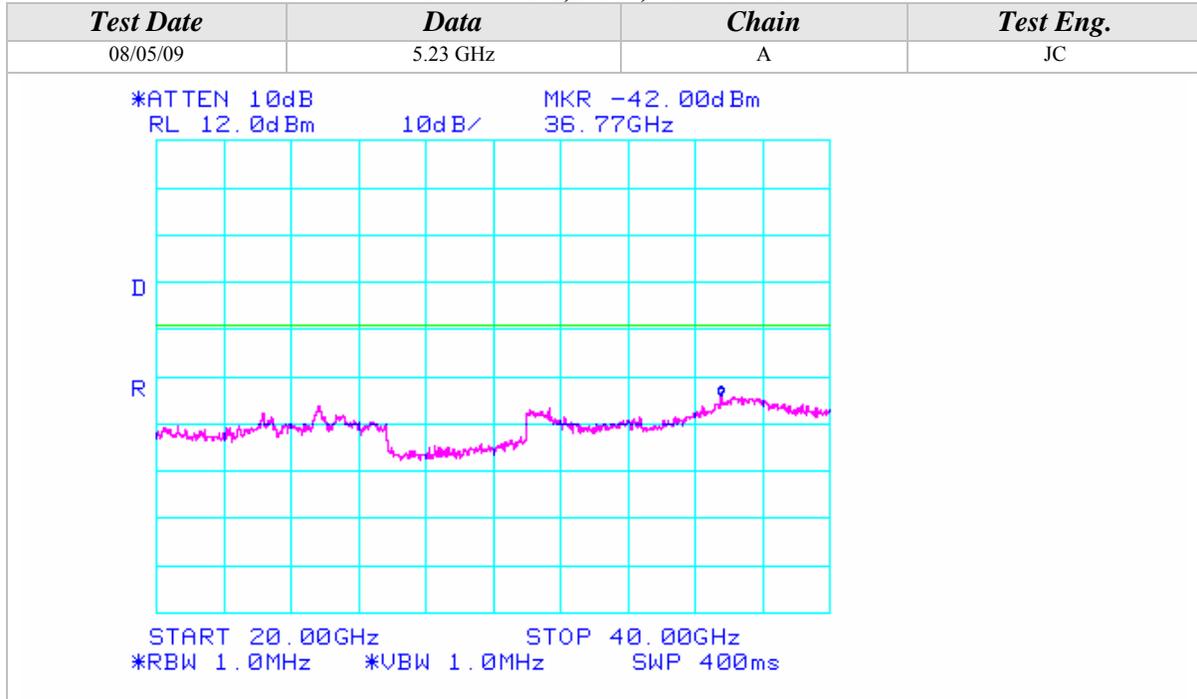
## Conducted Out Of Band Emissions (Continued)

## 802.11n Mode, 5GHz, 40MHz Wide

| <b>Test Date</b>                                                                                                                           | <b>Data</b> | <b>Chain</b> | <b>Test Eng.</b> |
|--------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|------------------|
| 08/05/09                                                                                                                                   | 5.23 GHz    | A            | JC               |
| <p>*ATTEN 10dB MKR -49.83dBm<br/>RL 12.0dBm 10dB/ 6.970GHz</p> <p>START 5.350GHz STOP 10.000GHz<br/>*RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms</p> |             |              |                  |
| <b>Test Date</b>                                                                                                                           | <b>Data</b> | <b>Chain</b> | <b>Test Eng.</b> |
| 08/05/09                                                                                                                                   | 5.23 GHz    | A            | JC               |
| <p>*ATTEN 10dB MKR -46.67dBm<br/>RL 12.0dBm 10dB/ 15.73GHz</p> <p>START 10.00GHz STOP 20.00GHz<br/>*RBW 1.0MHz *VBW 1.0MHz SWP 200ms</p>   |             |              |                  |

Conducted Out Of Band Emissions (Continued)

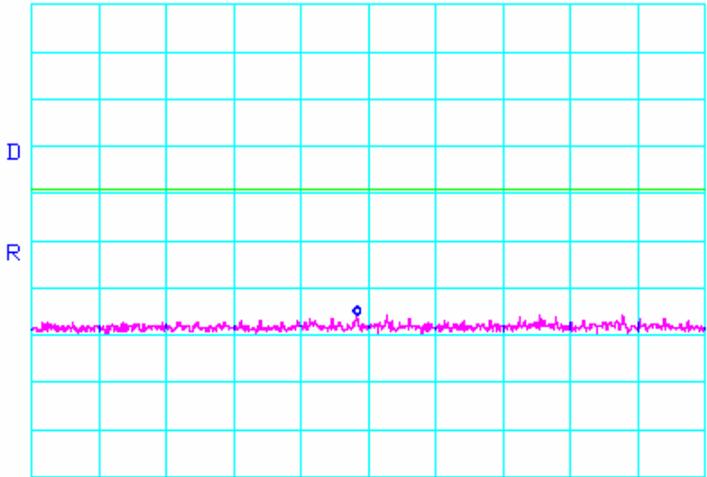
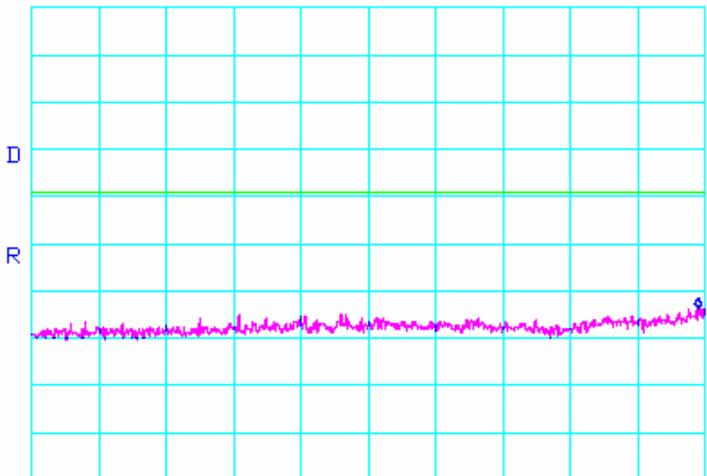
802.11n Mode, 5GHz, 40MHz Wide





### Conducted Out Of Band Emissions (Continued)

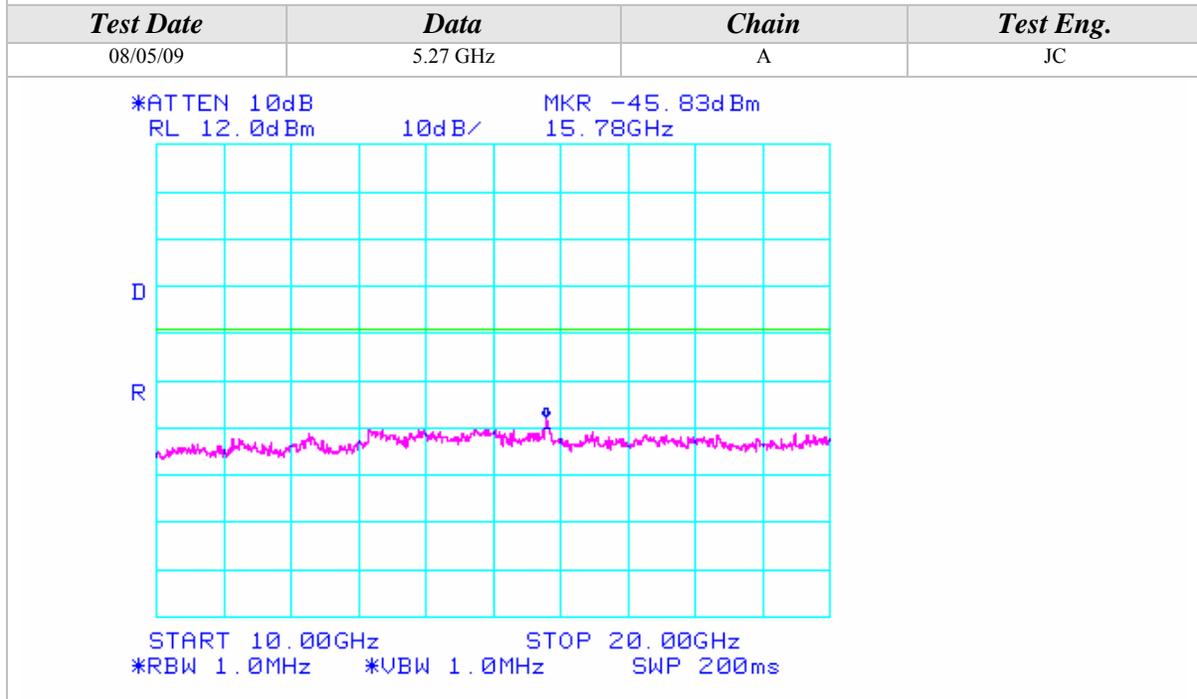
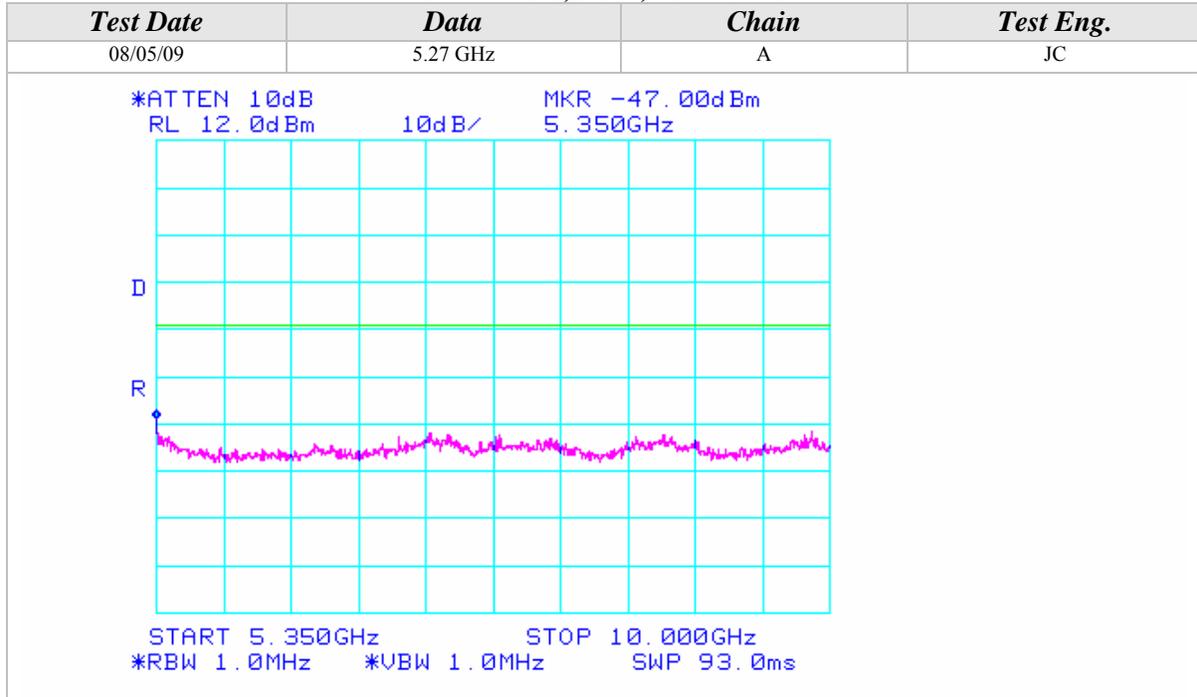
#### 802.11n Mode, 5GHz, 40MHz Wide

| Test Date                                                                                                                                                                                                                                                                                                                                                    | Data     | Chain | Test Eng. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-----------|
| 08/05/09                                                                                                                                                                                                                                                                                                                                                     | 5.27 GHz | A     | JC        |
| <p>*ATTEN 10dB                      MKR -53.83dBm<br/>RL 12.0dBm                      10dB/                      498.8MHz</p>  <p>START 30.0MHz                      STOP 1.0000GHz<br/>*RBW 1.0MHz                      *VBW 1.0MHz                      SWP 50.0ms</p>   |          |       |           |
| Test Date                                                                                                                                                                                                                                                                                                                                                    | Data     | Chain | Test Eng. |
| 08/05/09                                                                                                                                                                                                                                                                                                                                                     | 5.27 GHz | A     | JC        |
| <p>*ATTEN 10dB                      MKR -51.67dBm<br/>RL 12.0dBm                      10dB/                      5.109GHz</p>  <p>START 1.000GHz                      STOP 5.150GHz<br/>*RBW 1.0MHz                      *VBW 1.0MHz                      SWP 83.0ms</p> |          |       |           |



Conducted Out Of Band Emissions (Continued)

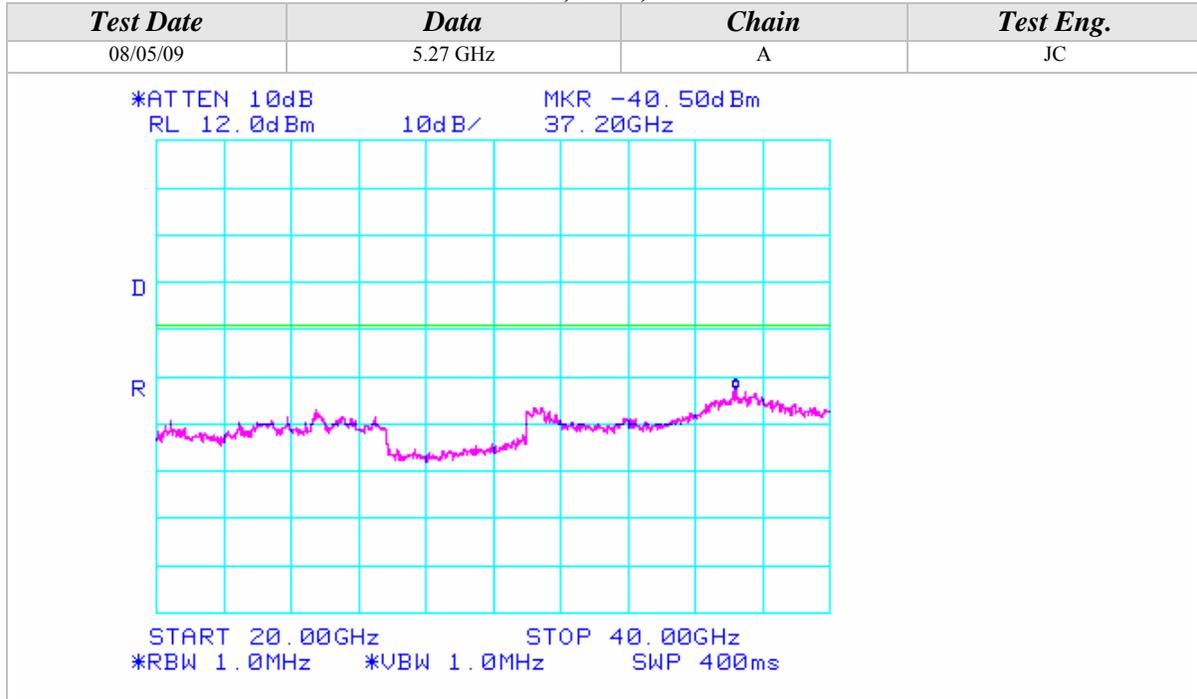
802.11n Mode, 5GHz, 40MHz Wide





Conducted Out Of Band Emissions (Continued)

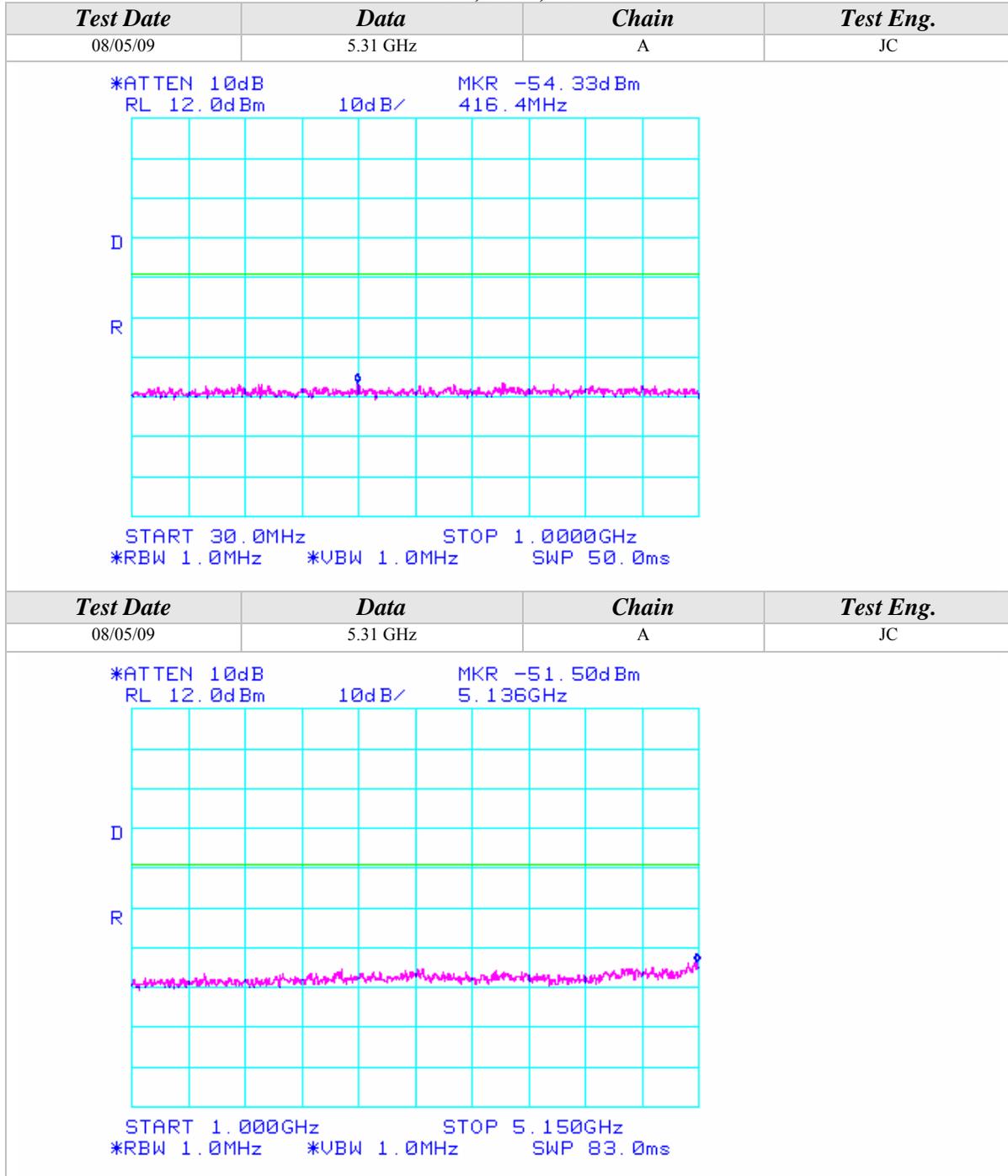
802.11n Mode, 5GHz, 40MHz Wide





Conducted Out Of Band Emissions (Continued)

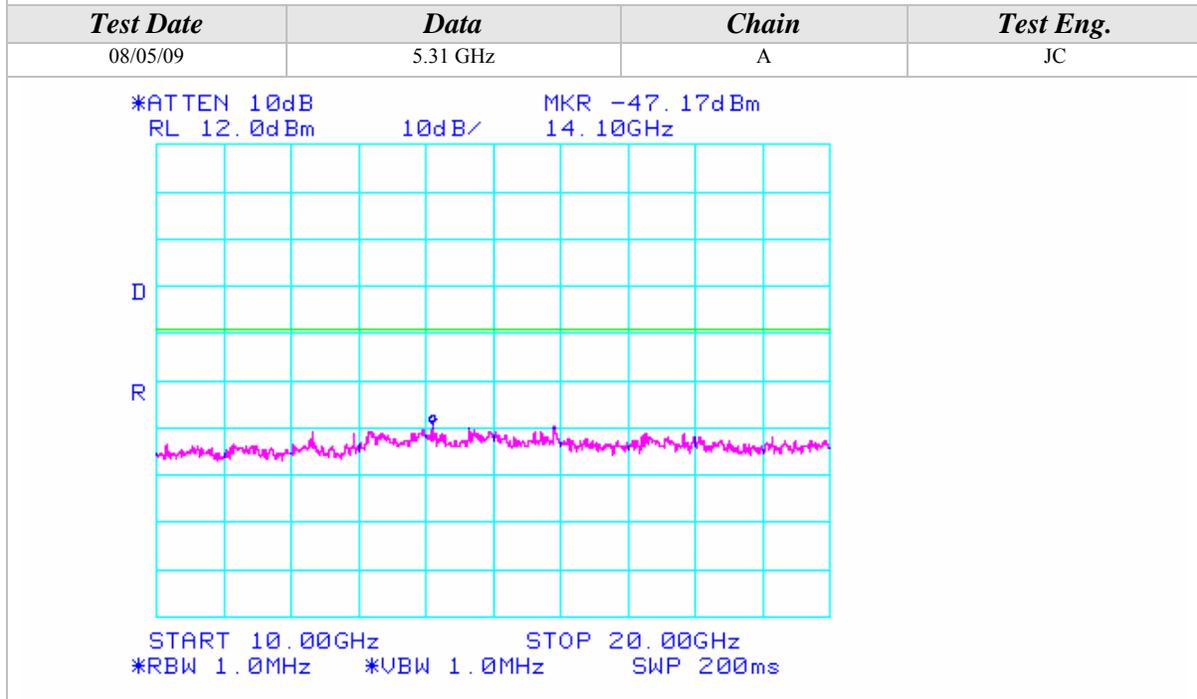
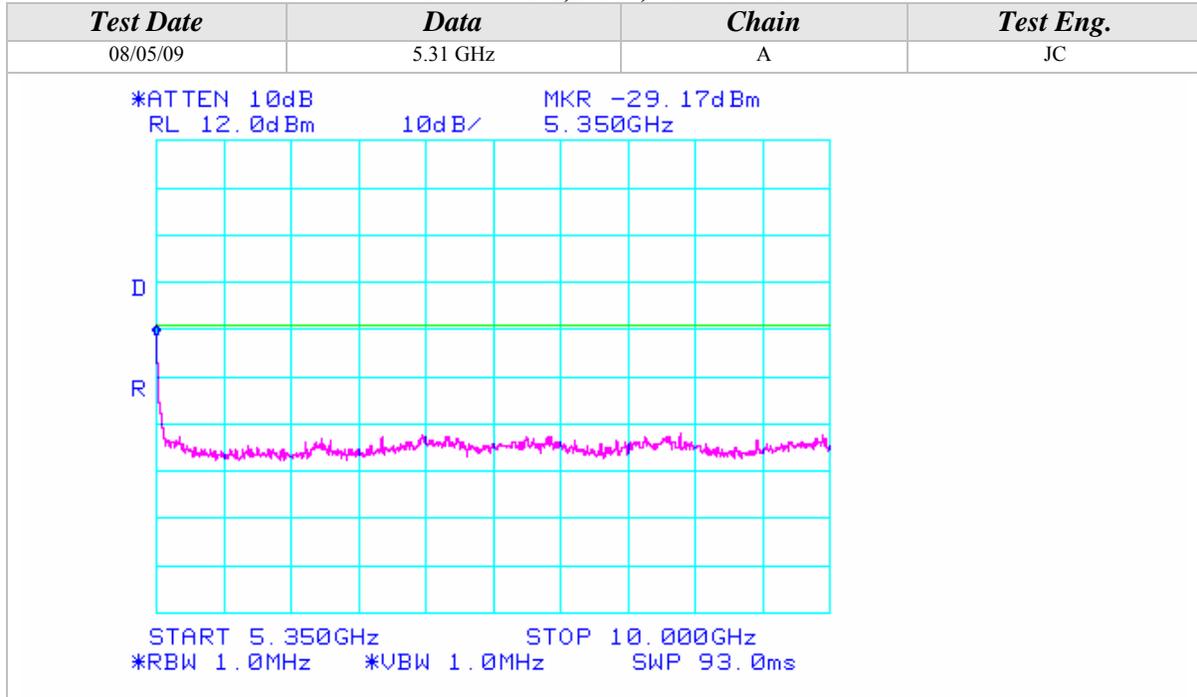
802.11n Mode, 5GHz, 40MHz Wide





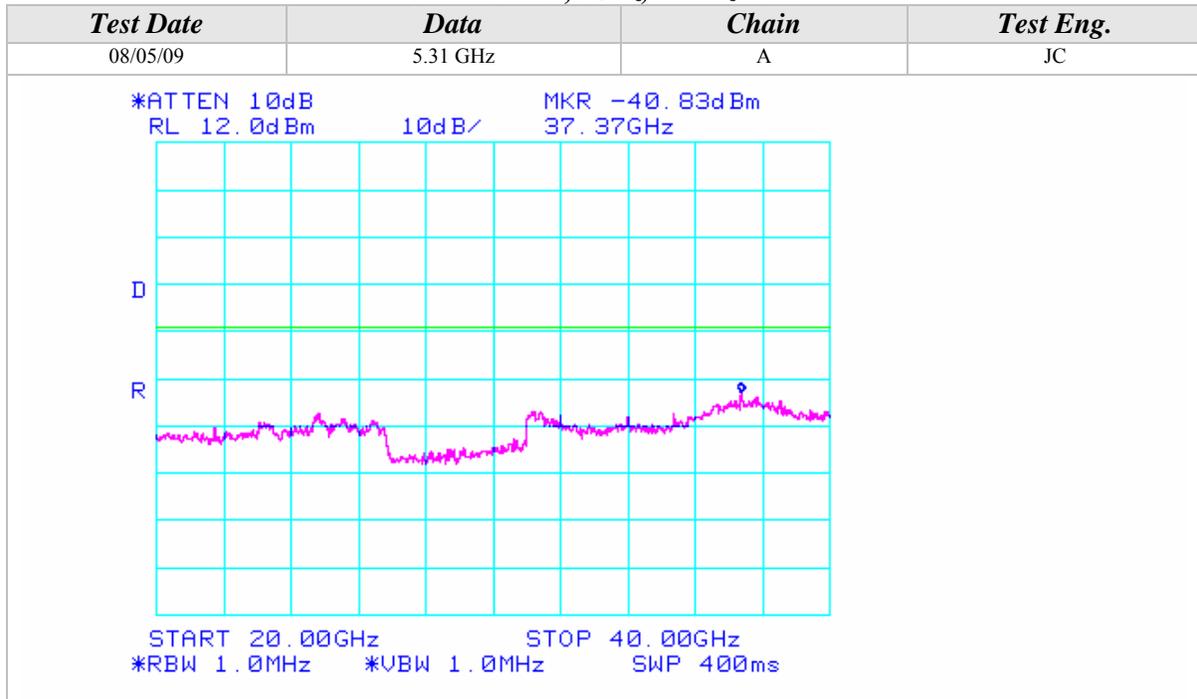
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide



Conducted Out Of Band Emissions (Continued)

*802.11n Mode, 5GHz, 40MHz Wide*





Conducted Out Of Band Emissions (Continued)

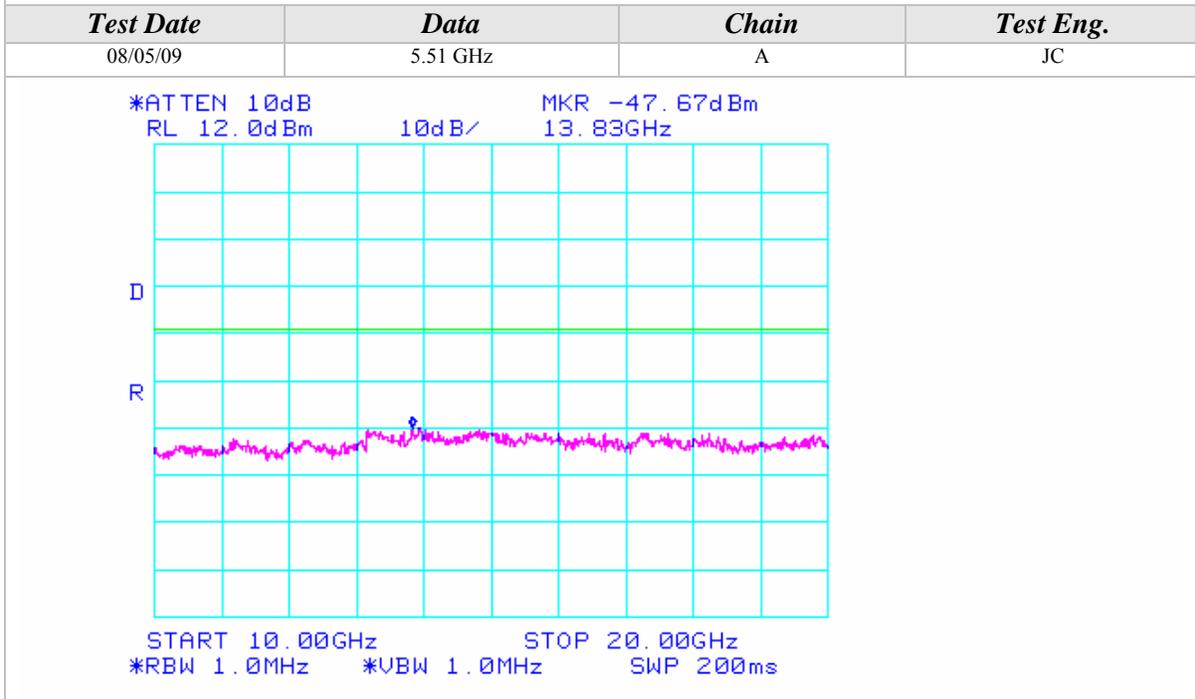
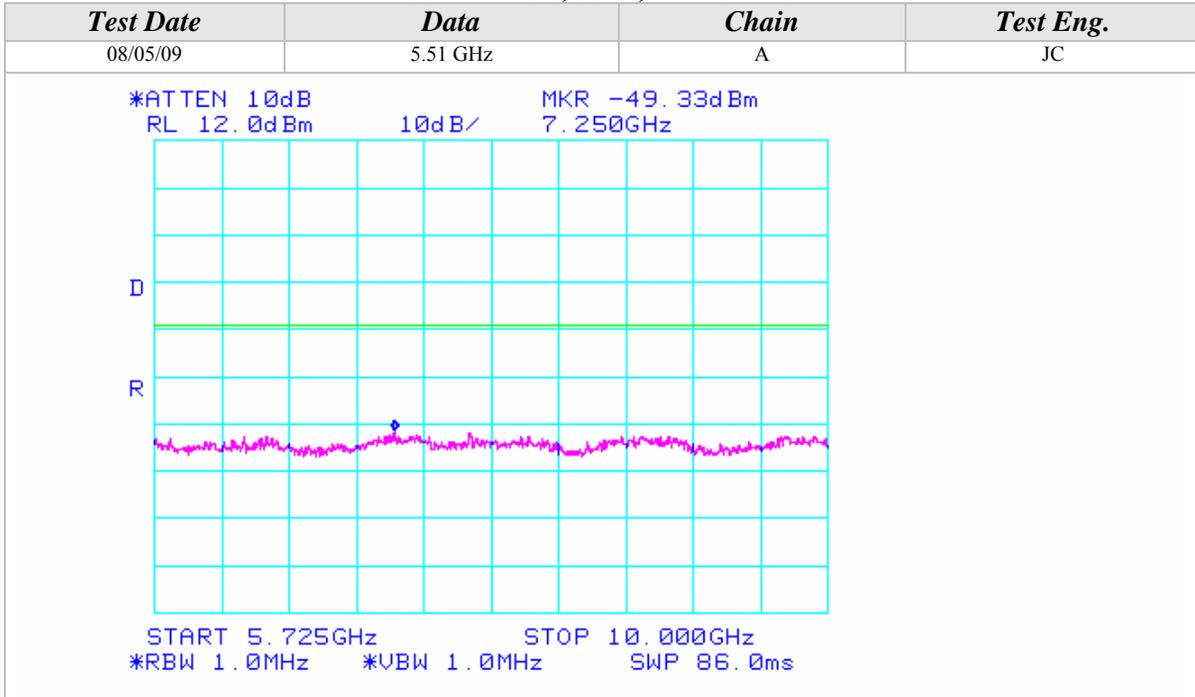
**802.11n Mode, 5GHz, 40MHz Wide**

| Test Date                                                                                                                                                                                                                                             | Data     | Chain | Test Eng. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-----------|
| 08/05/09                                                                                                                                                                                                                                              | 5.51 GHz | A     | JC        |
| <p>*ATTEN 10dB                  MKR -54.33dBm</p> <p>RL 12.0dBm                  10dB/                  786.6MHz</p> <p>START 30.0MHz                  STOP 1.0000GHz</p> <p>*RBW 1.0MHz                  *VBW 1.0MHz                  SWP 50.0ms</p> |          |       |           |
| Test Date                                                                                                                                                                                                                                             | Data     | Chain | Test Eng. |
| 08/05/09                                                                                                                                                                                                                                              | 5.51 GHz | A     | JC        |
| <p>*ATTEN 10dB                  MKR -30.00dBm</p> <p>RL 12.0dBm                  10dB/                  5.460GHz</p> <p>START 1.000GHz                  STOP 5.460GHz</p> <p>*RBW 1.0MHz                  *VBW 1.0MHz                  SWP 90.0ms</p> |          |       |           |



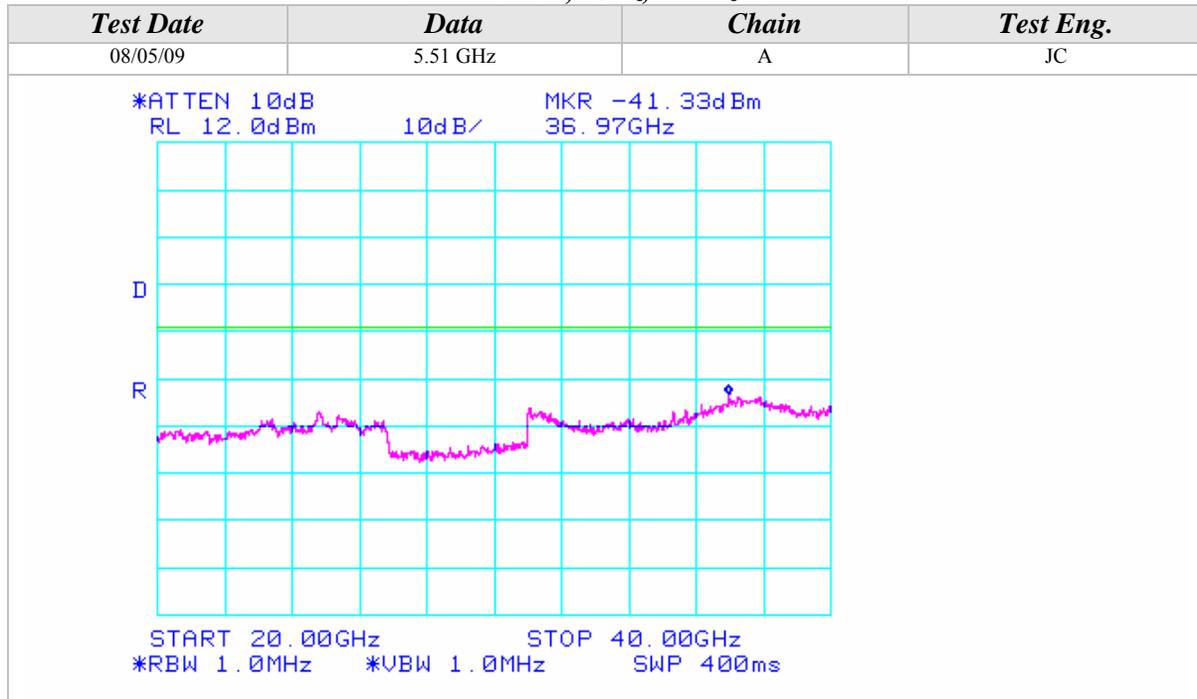
### Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide



## Conducted Out Of Band Emissions (Continued)

## 802.11n Mode, 5GHz, 40MHz Wide





### Conducted Out Of Band Emissions (Continued)

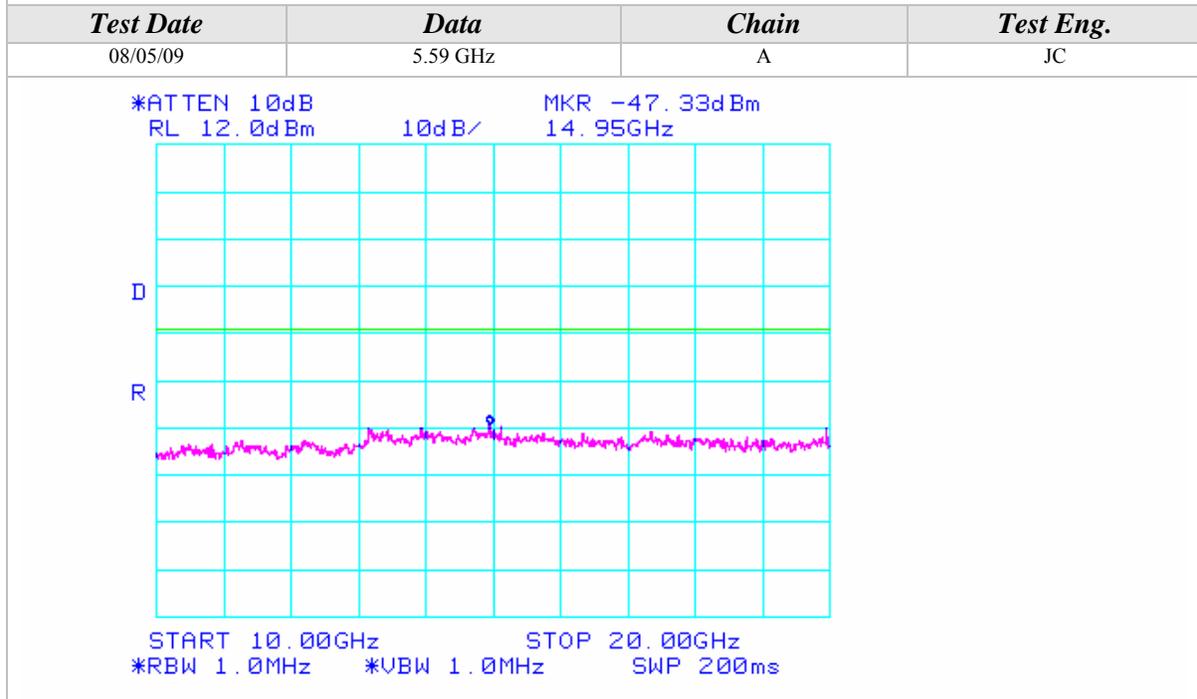
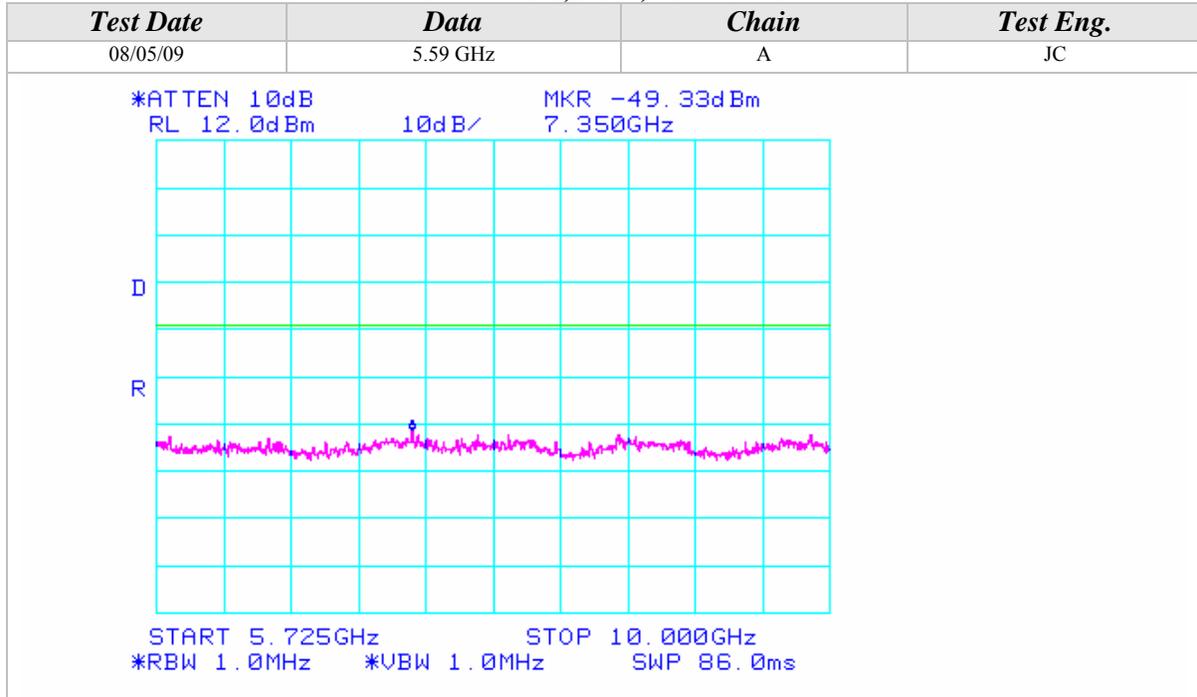
#### 802.11n Mode, 5GHz, 40MHz Wide

| Test Date                                                                                                                                                               | Data     | Chain | Test Eng. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-----------|
| 08/05/09                                                                                                                                                                | 5.59 GHz | A     | JC        |
| <p>*ATTEN 10dB      MKR -54.33dBm<br/>RL 12.0dBm      10dB/      55.9MHz</p> <p>START 30.0MHz      STOP 1.0000GHz<br/>*RBW 1.0MHz      *VBW 1.0MHz      SWP 50.0ms</p>  |          |       |           |
| Test Date                                                                                                                                                               | Data     | Chain | Test Eng. |
| 08/05/09                                                                                                                                                                | 5.59 GHz | A     | JC        |
| <p>*ATTEN 10dB      MKR -49.33dBm<br/>RL 12.0dBm      10dB/      5.378GHz</p> <p>START 1.000GHz      STOP 5.460GHz<br/>*RBW 1.0MHz      *VBW 1.0MHz      SWP 90.0ms</p> |          |       |           |



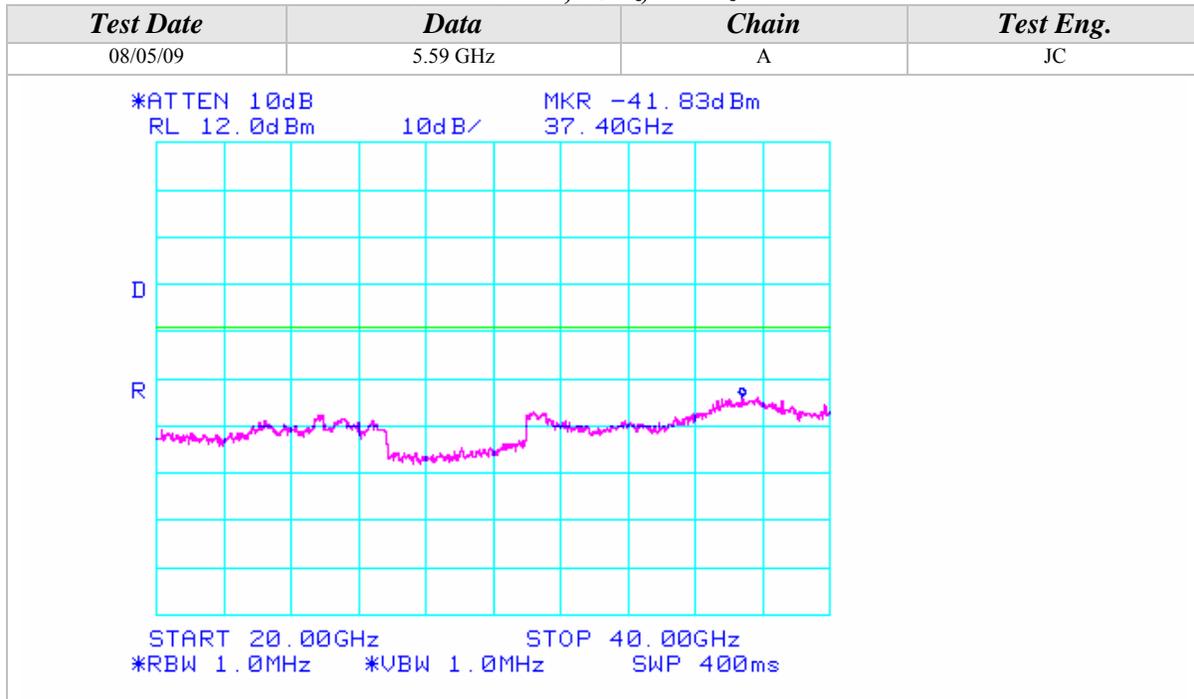
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide



### Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide





Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

| Test Date                                                                                                                                                               | Data     | Chain | Test Eng. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-----------|
| 08/05/09                                                                                                                                                                | 5.67 GHz | A     | JC        |
| <p>*ATTEN 10dB      MKR -54.00dBm<br/>RL 12.0dBm      10dB/      490.8MHz</p> <p>START 30.0MHz      STOP 1.0000GHz<br/>*RBW 1.0MHz      *VBW 1.0MHz      SWP 50.0ms</p> |          |       |           |
| Test Date                                                                                                                                                               | Data     | Chain | Test Eng. |
| 08/05/09                                                                                                                                                                | 5.67 GHz | A     | JC        |
| <p>*ATTEN 10dB      MKR -51.00dBm<br/>RL 12.0dBm      10dB/      5.408GHz</p> <p>START 1.000GHz      STOP 5.460GHz<br/>*RBW 1.0MHz      *VBW 1.0MHz      SWP 90.0ms</p> |          |       |           |



### Conducted Out Of Band Emissions (Continued)

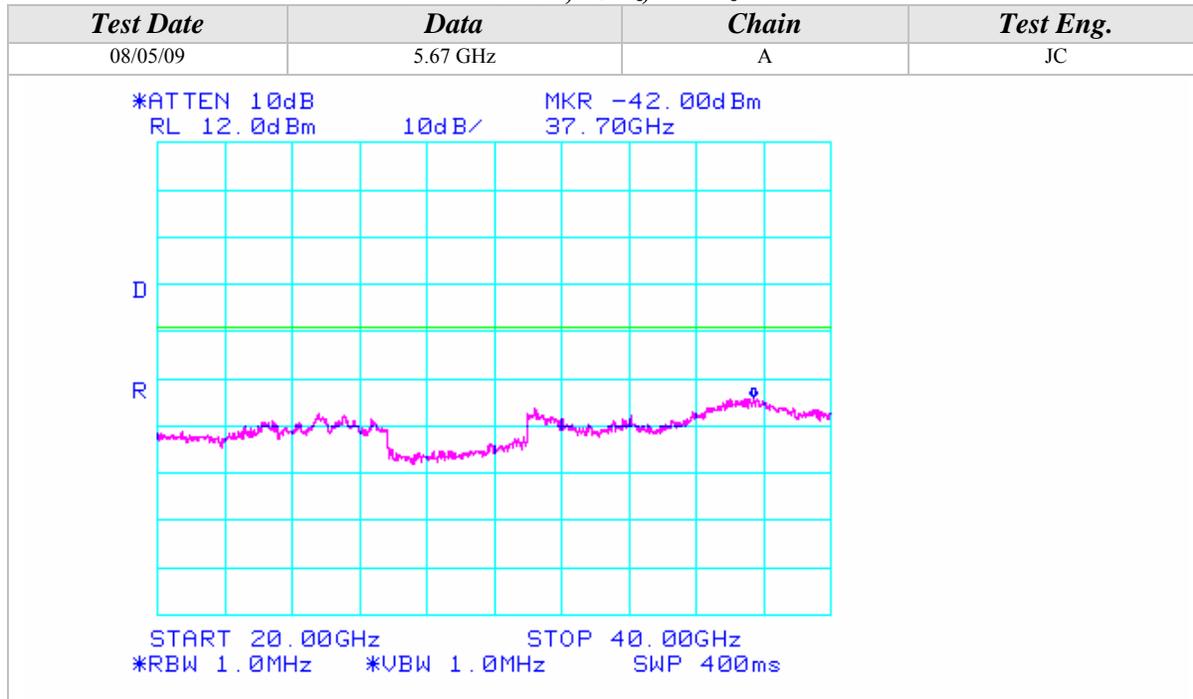
802.11n Mode, 5GHz, 40MHz Wide

| Test Date                                                                                                                                                                                                                                                   | Data     | Chain | Test Eng. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-----------|
| 08/05/09                                                                                                                                                                                                                                                    | 5.67 GHz | A     | JC        |
| <p>*ATTEN 10dB                    MKR -38.00dBm<br/>RL 12.0dB                    10dB/                    5.725GHz</p> <p>START 5.725GHz                    STOP 10.000GHz<br/>*RBW 1.0MHz                    *VBW 1.0MHz                    SWP 86.0ms</p> |          |       |           |
| Test Date                                                                                                                                                                                                                                                   | Data     | Chain | Test Eng. |
| 08/05/09                                                                                                                                                                                                                                                    | 5.67 GHz | A     | JC        |
| <p>*ATTEN 10dB                    MKR -48.00dBm<br/>RL 12.0dB                    10dB/                    15.15GHz</p> <p>START 10.000GHz                    STOP 20.000GHz<br/>*RBW 1.0MHz                    *VBW 1.0MHz                    SWP 200ms</p> |          |       |           |



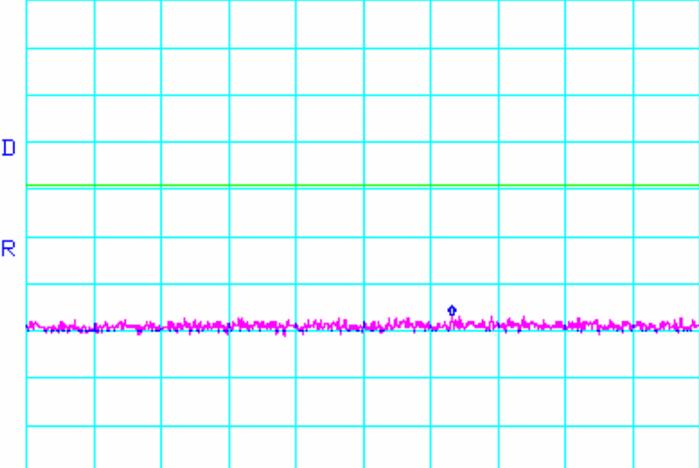
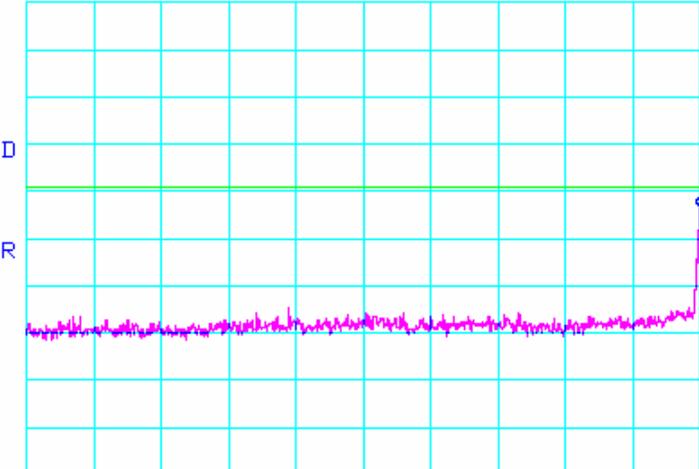
## Conducted Out Of Band Emissions (Continued)

## 802.11n Mode, 5GHz, 40MHz Wide



Conducted Out Of Band Emissions (Continued)

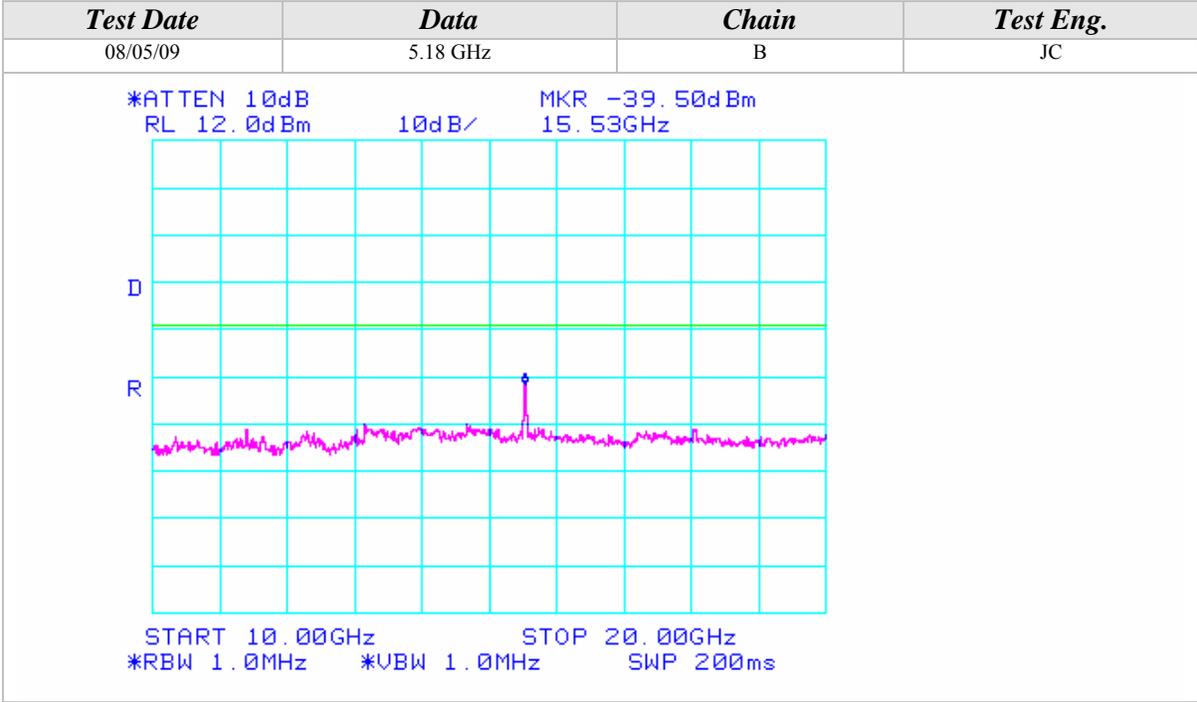
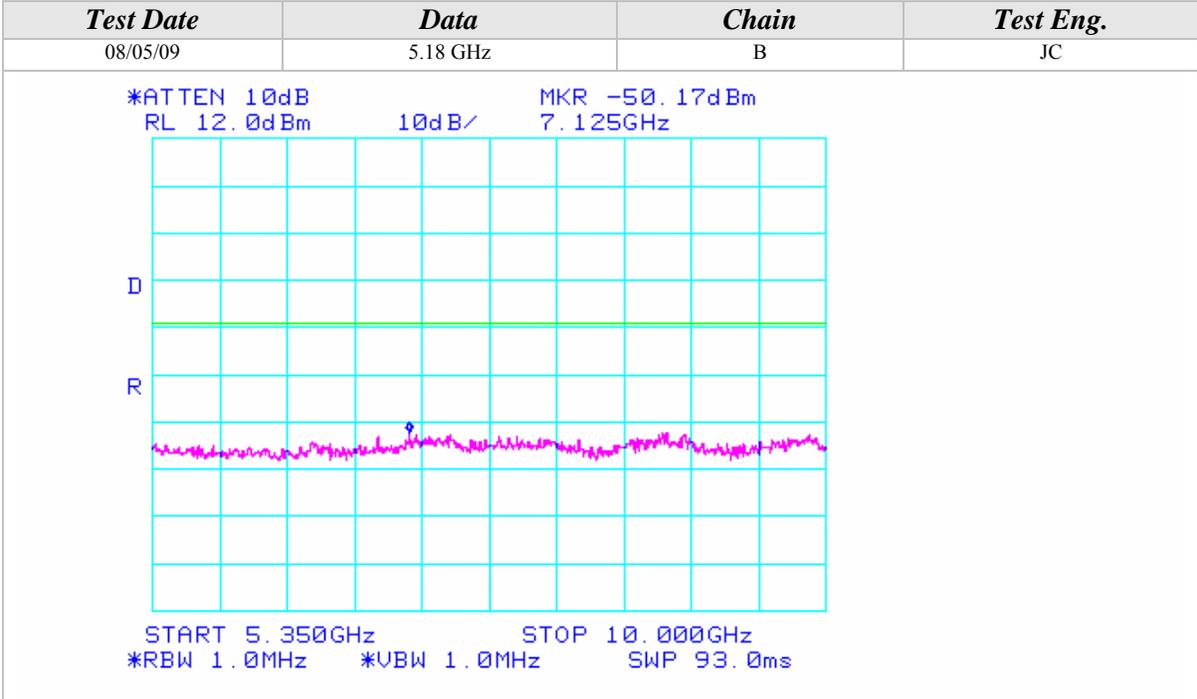
802.11a Mode

| <i>Test Date</i>                                                                                                                                                                                                                                                                                                                                                                                                     | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|------------------|
| 08/05/09                                                                                                                                                                                                                                                                                                                                                                                                             | 5.18 GHz    | B            | JC               |
| <p>*ATTEN 10dB                                  MKR -54.67dBm<br/>           RL 12.0dBm                                10dB/                  642.7MHz</p>  <p>START 30.0MHz                                  STOP 1.0000GHz<br/>           *RBW 1.0MHz                                *VBW 1.0MHz                  SWP 50.0ms</p> |             |              |                  |
| <i>Test Date</i>                                                                                                                                                                                                                                                                                                                                                                                                     | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
| 08/05/09                                                                                                                                                                                                                                                                                                                                                                                                             | 5.18 GHz    | B            | JC               |
| <p>*ATTEN 10dB                                  MKR -31.17dBm<br/>           RL 12.0dBm                                10dB/                  5.150GHz</p>  <p>START 1.000GHz                                STOP 5.150GHz<br/>           *RBW 1.0MHz                                *VBW 1.0MHz                  SWP 83.0ms</p> |             |              |                  |



Conducted Out Of Band Emissions (Continued)

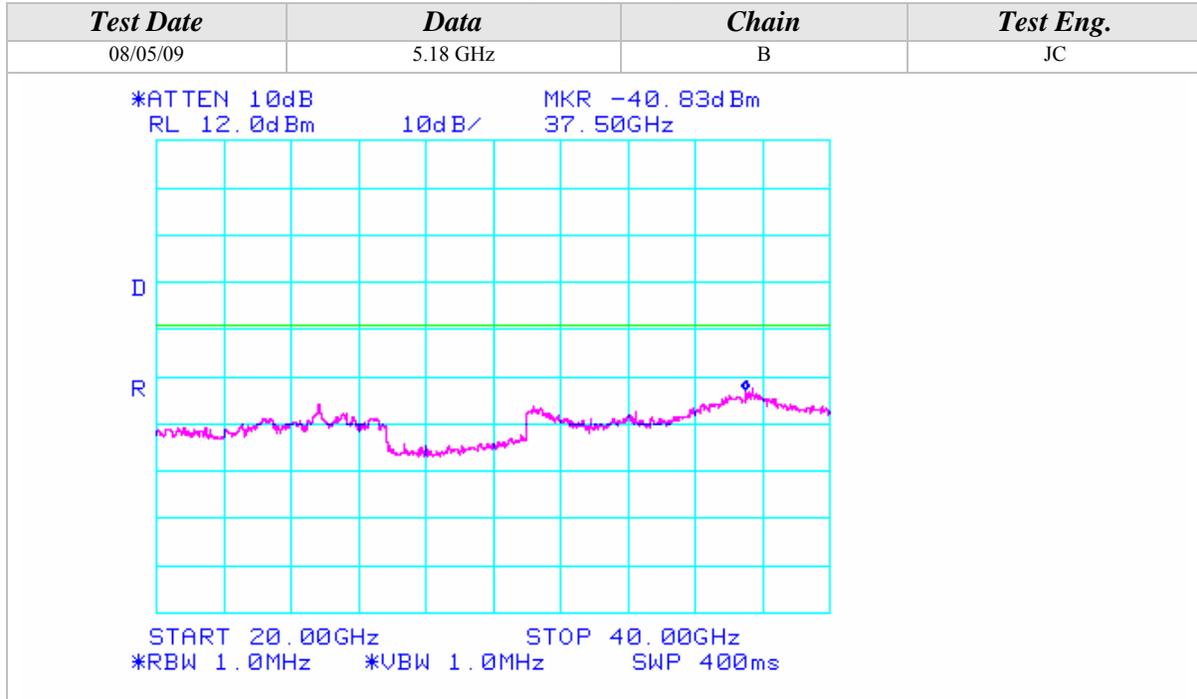
802.11a Mode





### Conducted Out Of Band Emissions (Continued)

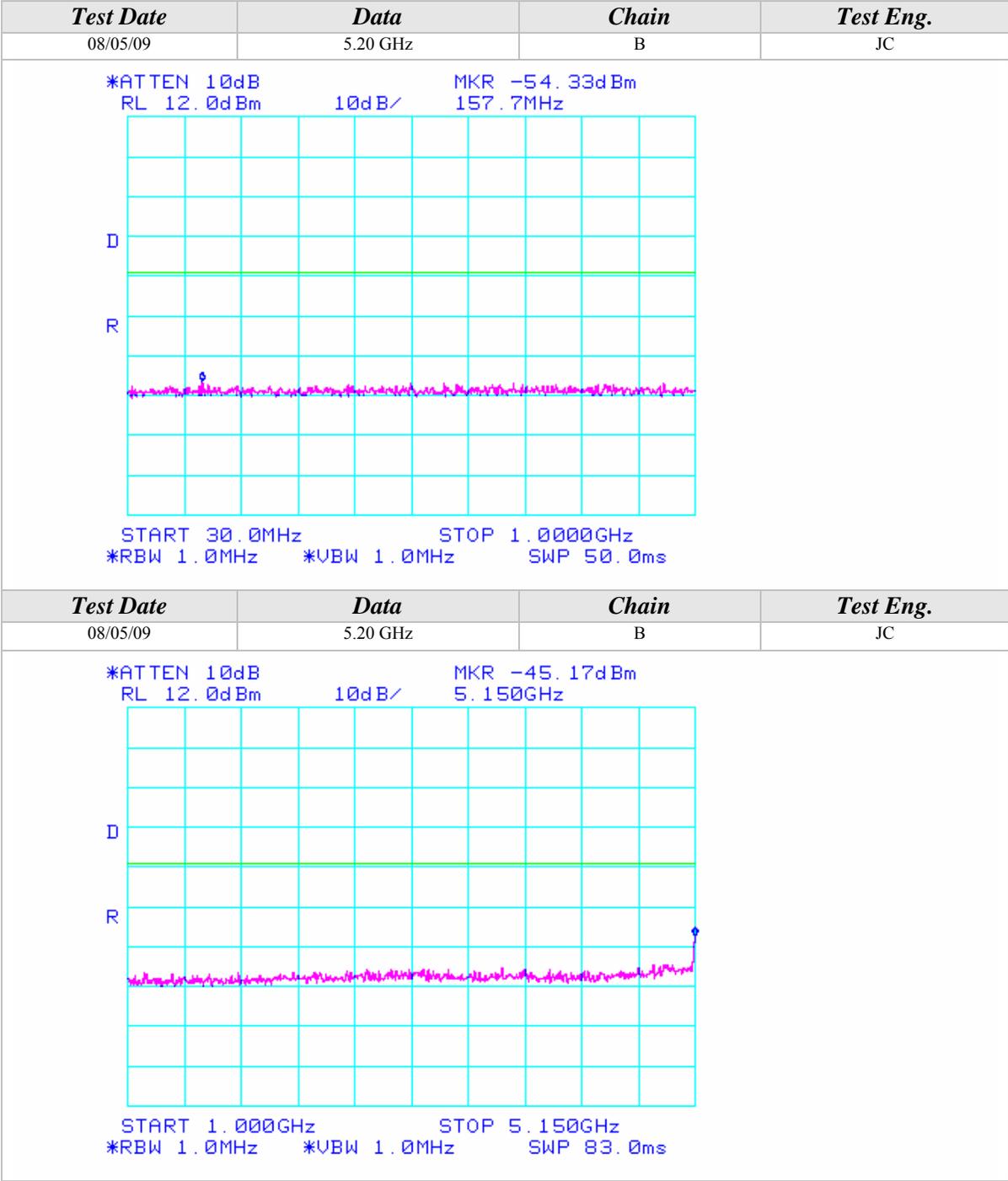
#### 802.11a Mode





Conducted Out Of Band Emissions (Continued)

802.11a Mode

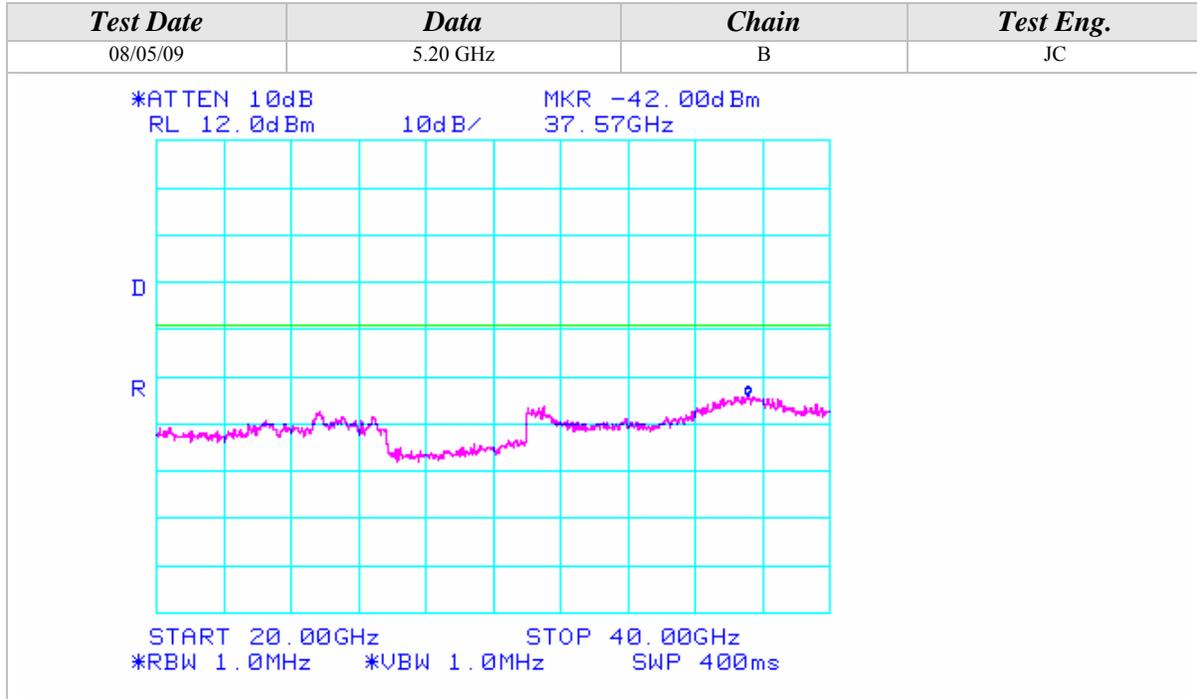






Conducted Out Of Band Emissions (Continued)

802.11a Mode



Conducted Out Of Band Emissions (Continued)

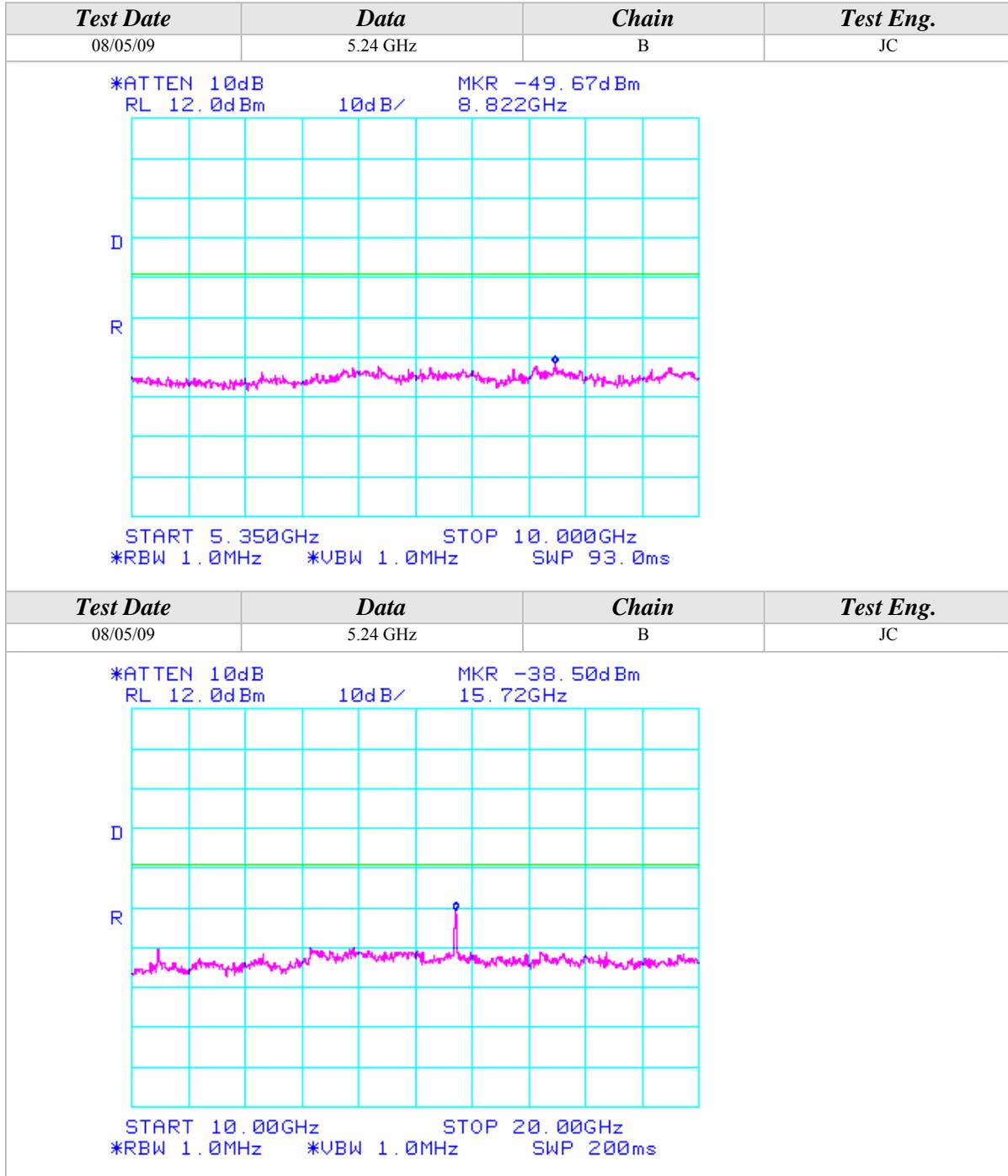
802.11a Mode

| Test Date                                                                                                                                                               | Data     | Chain | Test Eng. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-----------|
| 08/05/09                                                                                                                                                                | 5.24 GHz | B     | JC        |
| <p>*ATTEN 10dB      MKR -54.17dBm<br/>RL 12.0dBm      10dB/      799.5MHz</p> <p>START 30.0MHz      STOP 1.0000GHz<br/>*RBW 1.0MHz      *VBW 1.0MHz      SWP 50.0ms</p> |          |       |           |
| Test Date                                                                                                                                                               | Data     | Chain | Test Eng. |
| 08/05/09                                                                                                                                                                | 5.24 GHz | B     | JC        |
| <p>*ATTEN 10dB      MKR -51.67dBm<br/>RL 12.0dBm      10dB/      4.887GHz</p> <p>START 1.000GHz      STOP 5.150GHz<br/>*RBW 1.0MHz      *VBW 1.0MHz      SWP 83.0ms</p> |          |       |           |



Conducted Out Of Band Emissions (Continued)

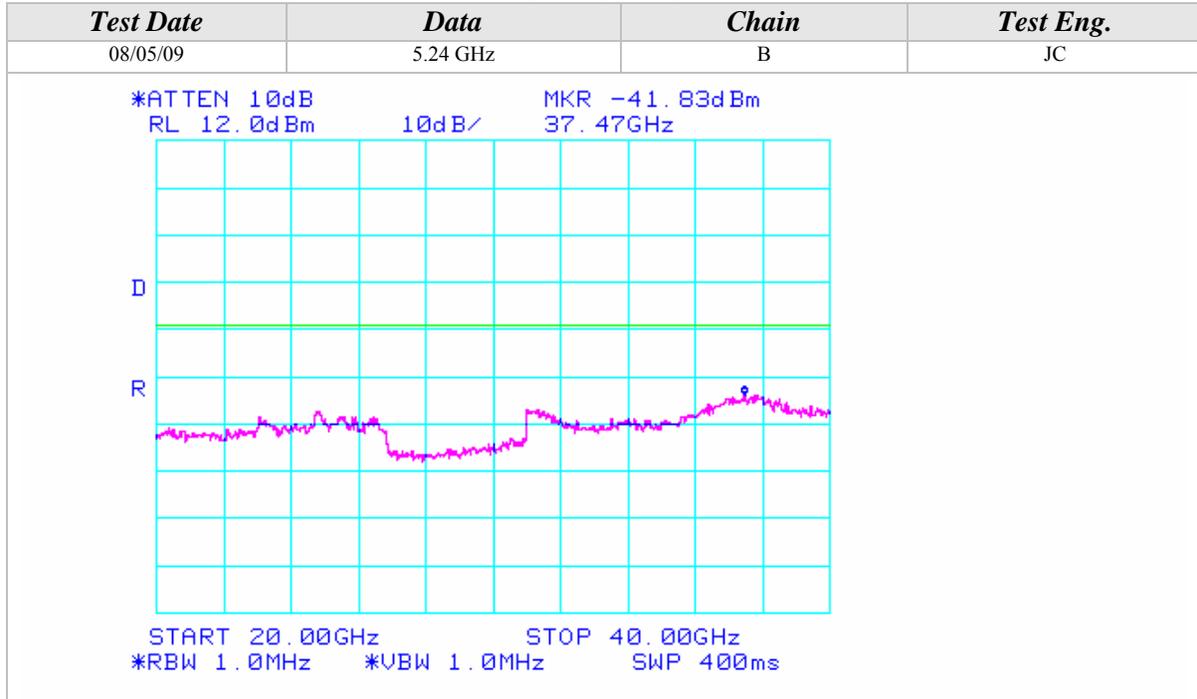
802.11a Mode





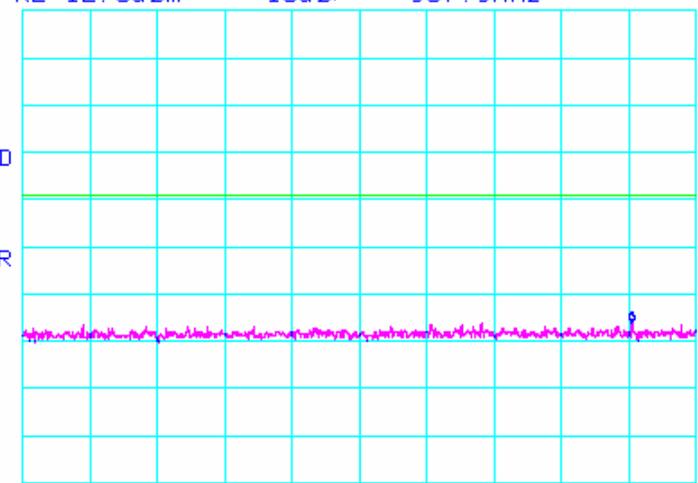
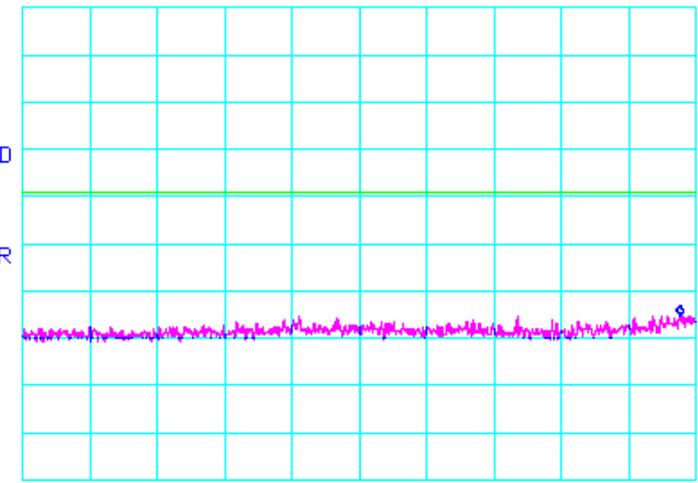
### Conducted Out Of Band Emissions (Continued)

#### 802.11a Mode



### Conducted Out Of Band Emissions (Continued)

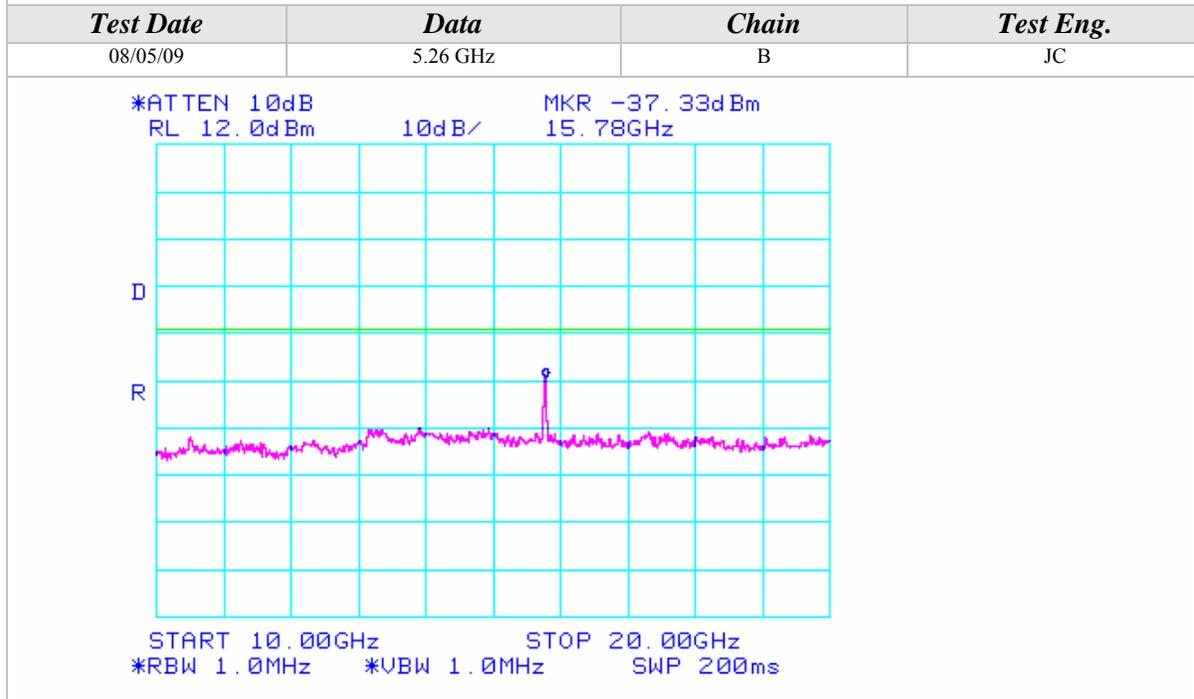
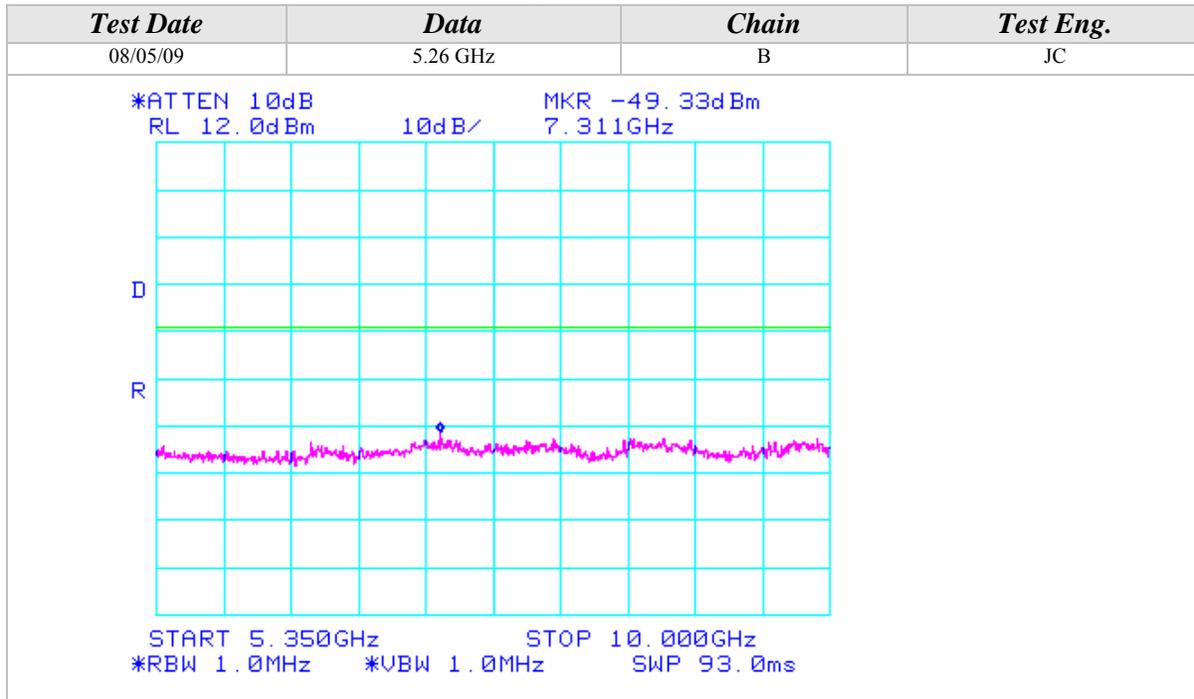
#### 802.11a Mode

| <i>Test Date</i>                                                                                                                                                                                                                                                                                                                                                                                                                   | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|------------------|
| 08/05/09                                                                                                                                                                                                                                                                                                                                                                                                                           | 5.26 GHz    | B            | JC               |
| <div style="text-align: right; margin-bottom: 5px;">*ATTEN 10dB      MKR -54.00dBm</div> <div style="text-align: right; margin-bottom: 5px;">RL 12.0dBm      10dB/      907.9MHz</div>  <div style="margin-top: 5px;">START 30.0MHz      STOP 1.0000GHz</div> <div style="margin-top: 5px;">*RBW 1.0MHz      *VBW 1.0MHz      SWP 50.0ms</div>   |             |              |                  |
| <i>Test Date</i>                                                                                                                                                                                                                                                                                                                                                                                                                   | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
| 08/05/09                                                                                                                                                                                                                                                                                                                                                                                                                           | 5.26 GHz    | B            | JC               |
| <div style="text-align: right; margin-bottom: 5px;">*ATTEN 10dB      MKR -53.17dBm</div> <div style="text-align: right; margin-bottom: 5px;">RL 12.0dBm      10dB/      5.053GHz</div>  <div style="margin-top: 5px;">START 1.000GHz      STOP 5.150GHz</div> <div style="margin-top: 5px;">*RBW 1.0MHz      *VBW 1.0MHz      SWP 83.0ms</div> |             |              |                  |



### Conducted Out Of Band Emissions (Continued)

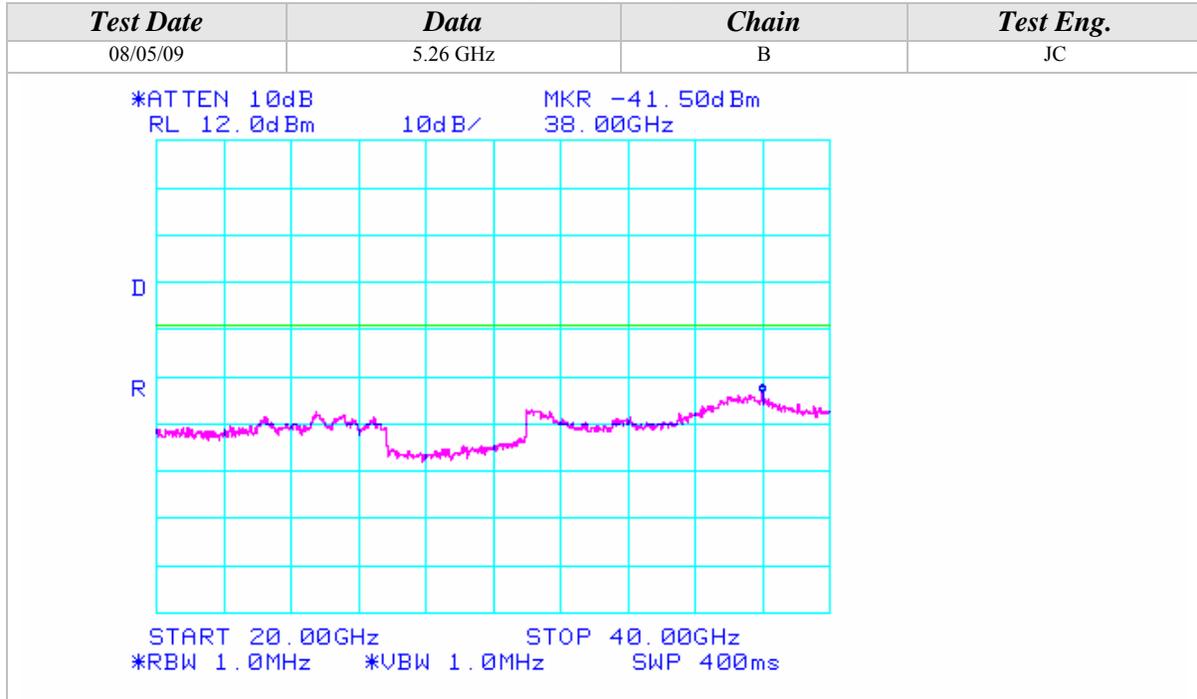
#### 802.11a Mode





### Conducted Out Of Band Emissions (Continued)

#### 802.11a Mode





### Conducted Out Of Band Emissions (Continued)

#### 802.11a Mode

| <i>Test Date</i>                                                                                                                              | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|------------------|
| 08/05/09                                                                                                                                      | 5.28 GHz    | B            | JC               |
| <p>*ATTEN 10dB<br/>RL 12.0dBm 10dB/ MKR -53.83dBm<br/>615.2MHz</p> <p>START 30.0MHz STOP 1.0000GHz<br/>*RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms</p> |             |              |                  |
| <i>Test Date</i>                                                                                                                              | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
| 08/05/09                                                                                                                                      | 5.28 GHz    | B            | JC               |
| <p>*ATTEN 10dB<br/>RL 12.0dBm 10dB/ MKR -52.50dBm<br/>3.110GHz</p> <p>START 1.000GHz STOP 5.150GHz<br/>*RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms</p> |             |              |                  |

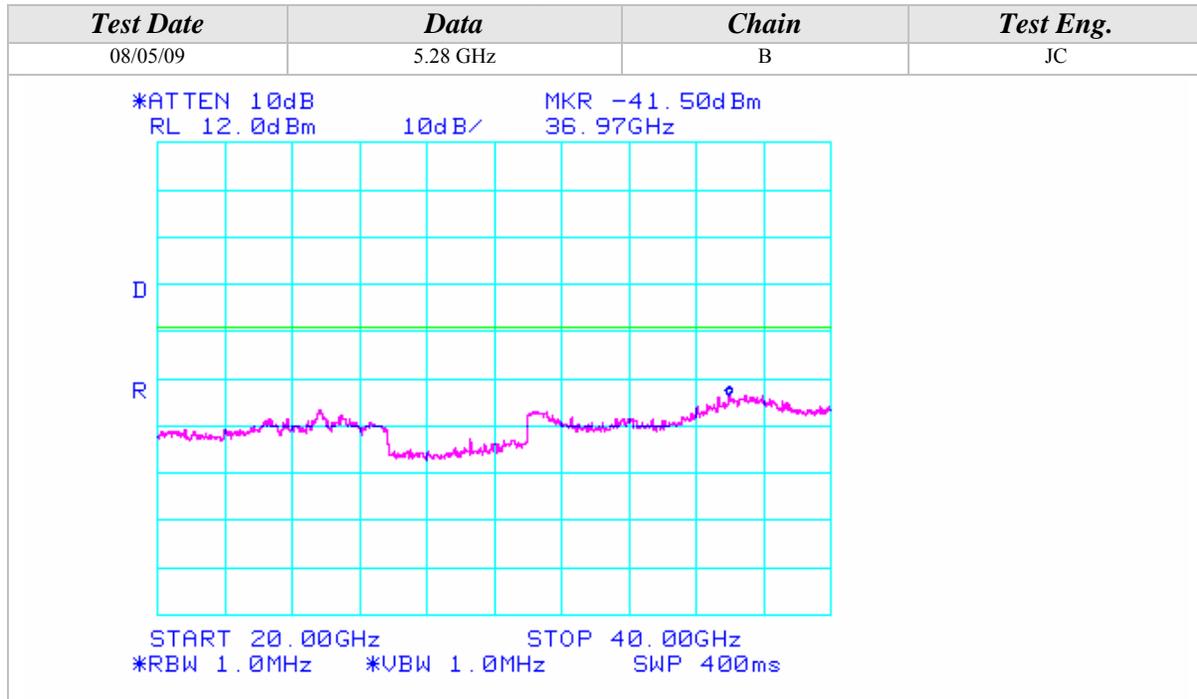
## Conducted Out Of Band Emissions (Continued)

*802.11a Mode*

| <b>Test Date</b>                                                                                                                                                                                                                                             | <b>Data</b> | <b>Chain</b> | <b>Test Eng.</b> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|------------------|
| 08/05/09                                                                                                                                                                                                                                                     | 5.28 GHz    | B            | JC               |
| <p>*ATTEN 10dB                    MKR -49.17dBm<br/>RL 12.0dBm                    10dB/                    7.350GHz</p> <p>START 5.350GHz                    STOP 10.000GHz<br/>*RBW 1.0MHz                    *VBW 1.0MHz                    SWP 93.0ms</p> |             |              |                  |
| <b>Test Date</b>                                                                                                                                                                                                                                             | <b>Data</b> | <b>Chain</b> | <b>Test Eng.</b> |
| 08/05/09                                                                                                                                                                                                                                                     | 5.28 GHz    | B            | JC               |
| <p>*ATTEN 10dB                    MKR -37.50dBm<br/>RL 12.0dBm                    10dB/                    15.83GHz</p> <p>START 10.000GHz                    STOP 20.000GHz<br/>*RBW 1.0MHz                    *VBW 1.0MHz                    SWP 200ms</p> |             |              |                  |

## Conducted Out Of Band Emissions (Continued)

## 802.11a Mode





### Conducted Out Of Band Emissions (Continued)

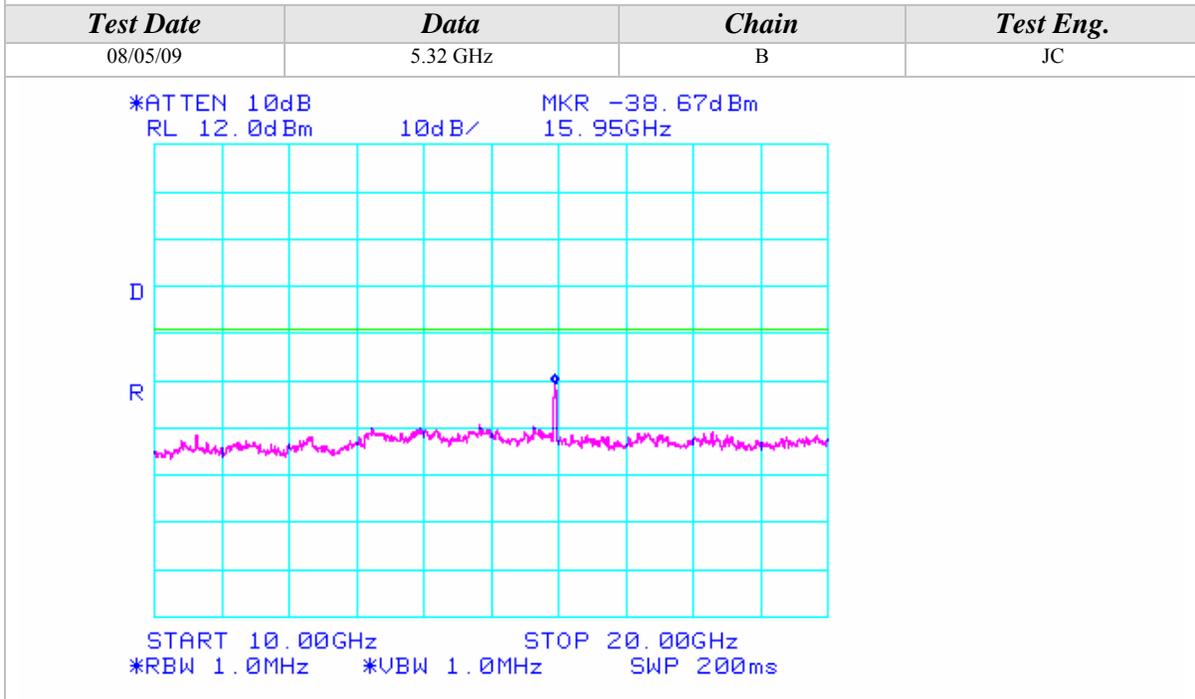
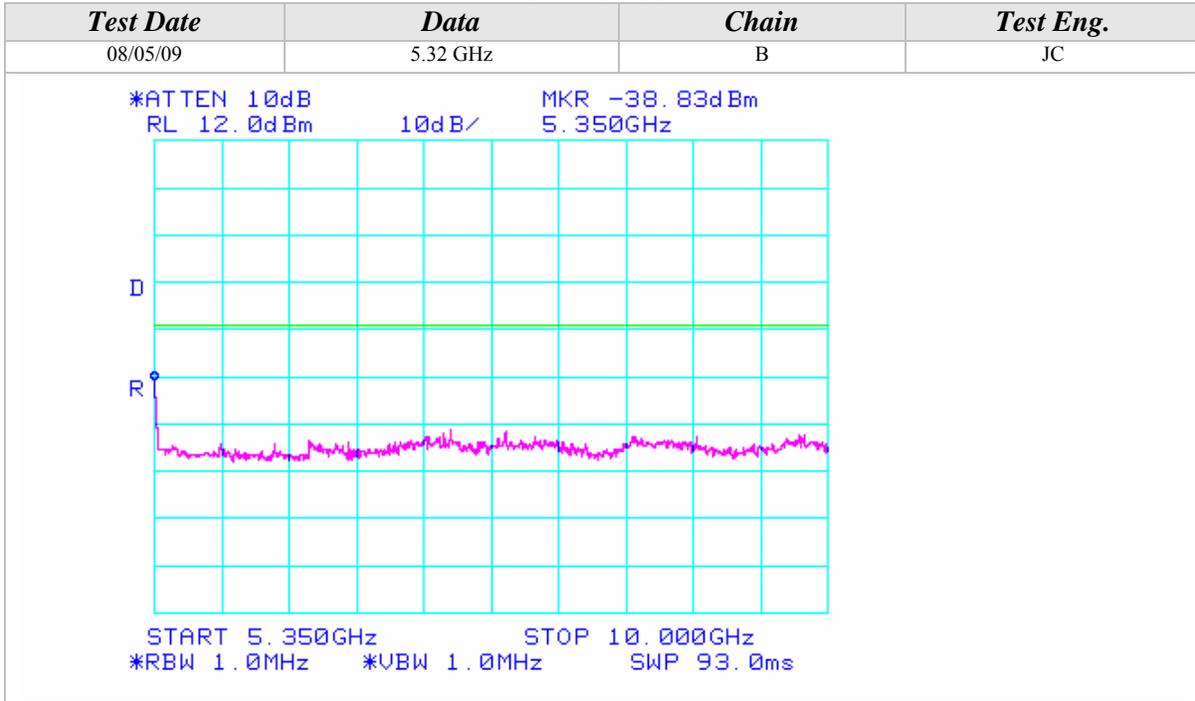
#### 802.11a Mode

| Test Date                                                                                                                                                                                                                                                                                                               | Data     | Chain | Test Eng. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-----------|
| 08/05/09                                                                                                                                                                                                                                                                                                                | 5.32 GHz | B     | JC        |
| <p>*ATTEN 10dB                              MKR -53.83dBm<br/>RL 12.0dBm                              10dB/                              710.6MHz</p> <p>START 30.0MHz                              STOP 1.0000GHz<br/>*RBW 1.0MHz                              *VBW 1.0MHz                              SWP 50.0ms</p> |          |       |           |
| Test Date                                                                                                                                                                                                                                                                                                               | Data     | Chain | Test Eng. |
| 08/05/09                                                                                                                                                                                                                                                                                                                | 5.32 GHz | B     | JC        |
| <p>*ATTEN 10dB                              MKR -52.50dBm<br/>RL 12.0dBm                              10dB/                              5.143GHz</p> <p>START 1.000GHz                              STOP 5.150GHz<br/>*RBW 1.0MHz                              *VBW 1.0MHz                              SWP 83.0ms</p> |          |       |           |



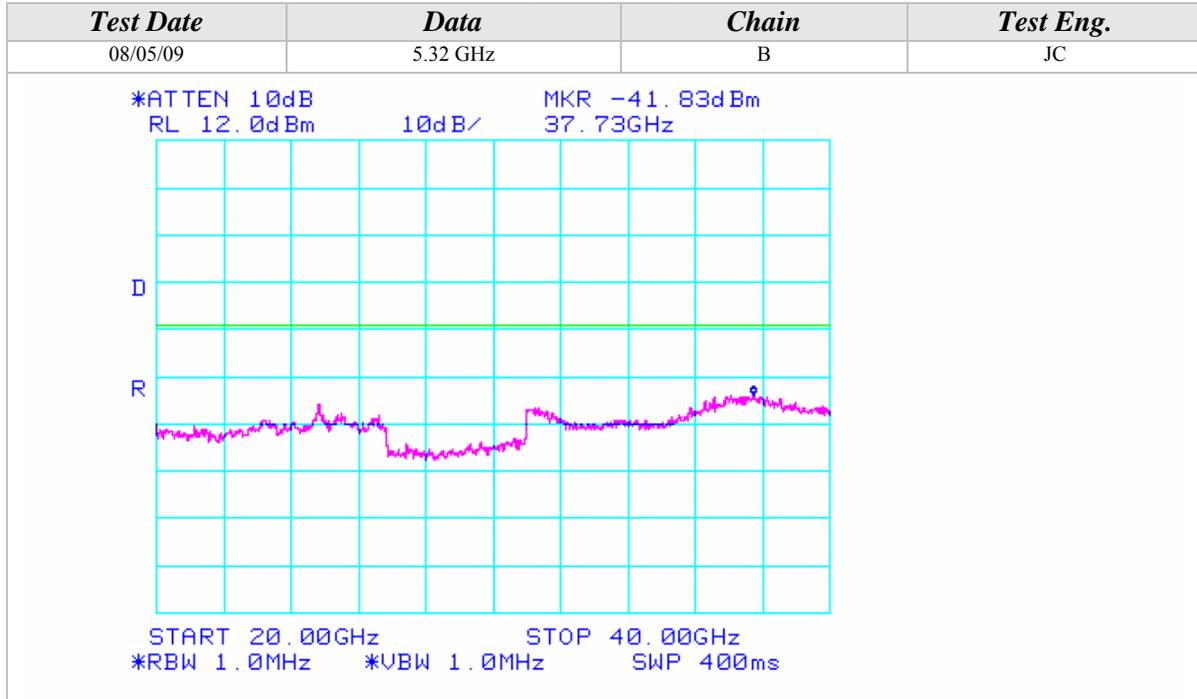
### Conducted Out Of Band Emissions (Continued)

#### 802.11a Mode



Conducted Out Of Band Emissions (Continued)

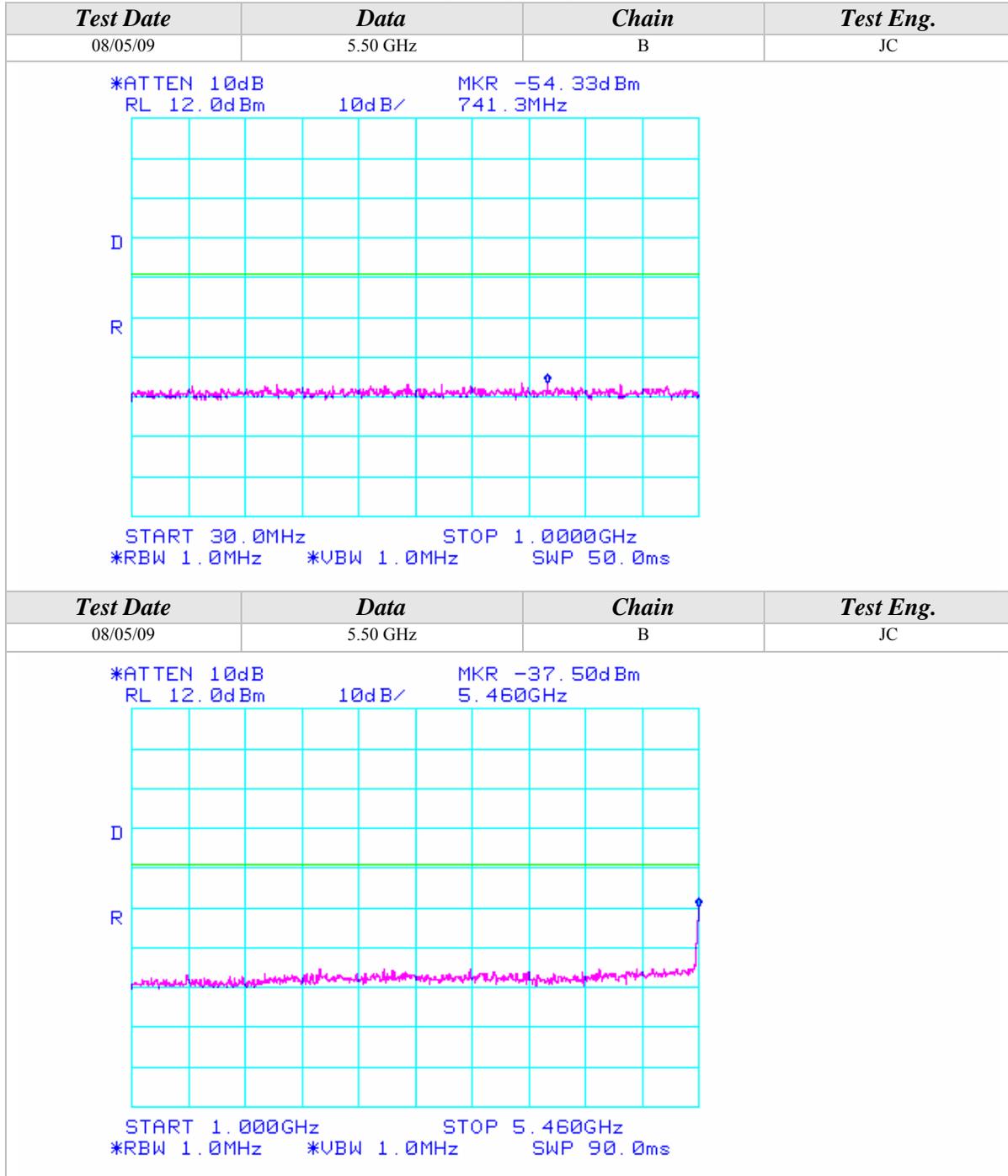
802.11a Mode





Conducted Out Of Band Emissions (Continued)

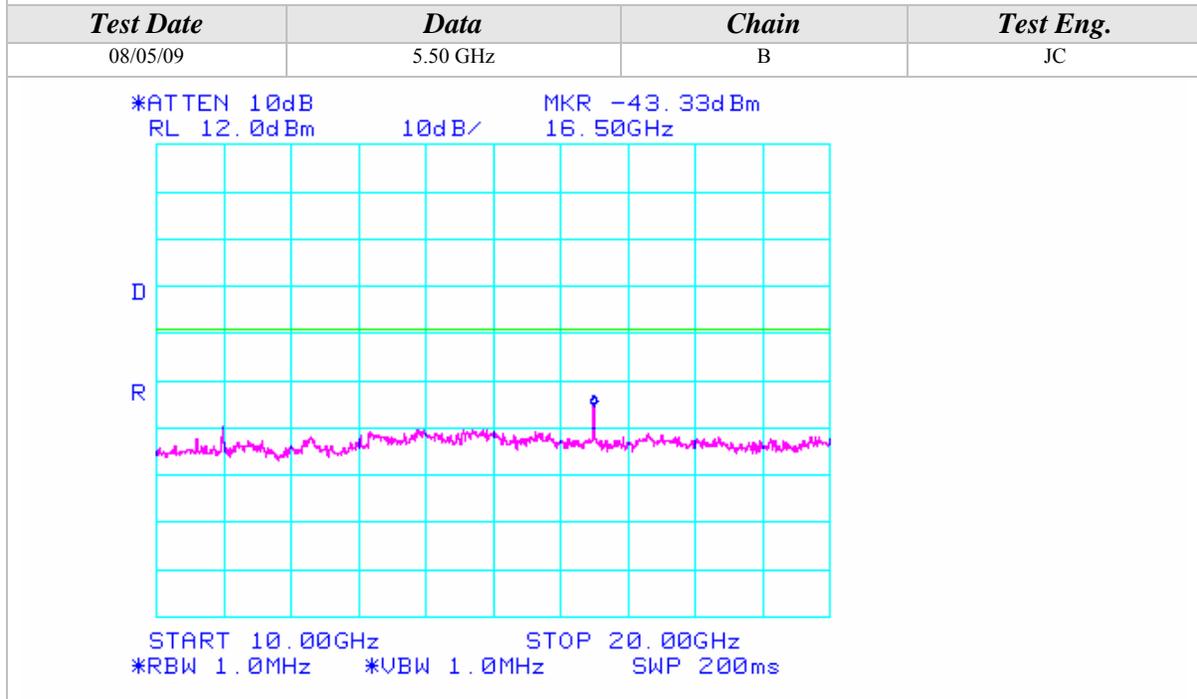
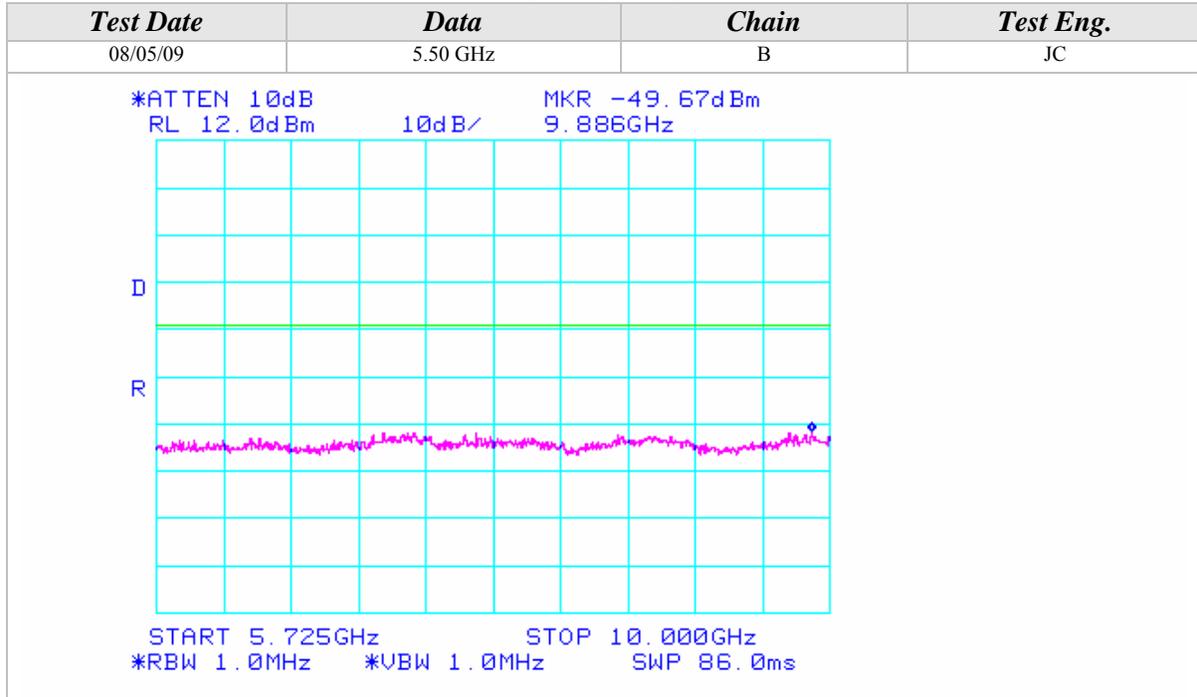
802.11a Mode





### Conducted Out Of Band Emissions (Continued)

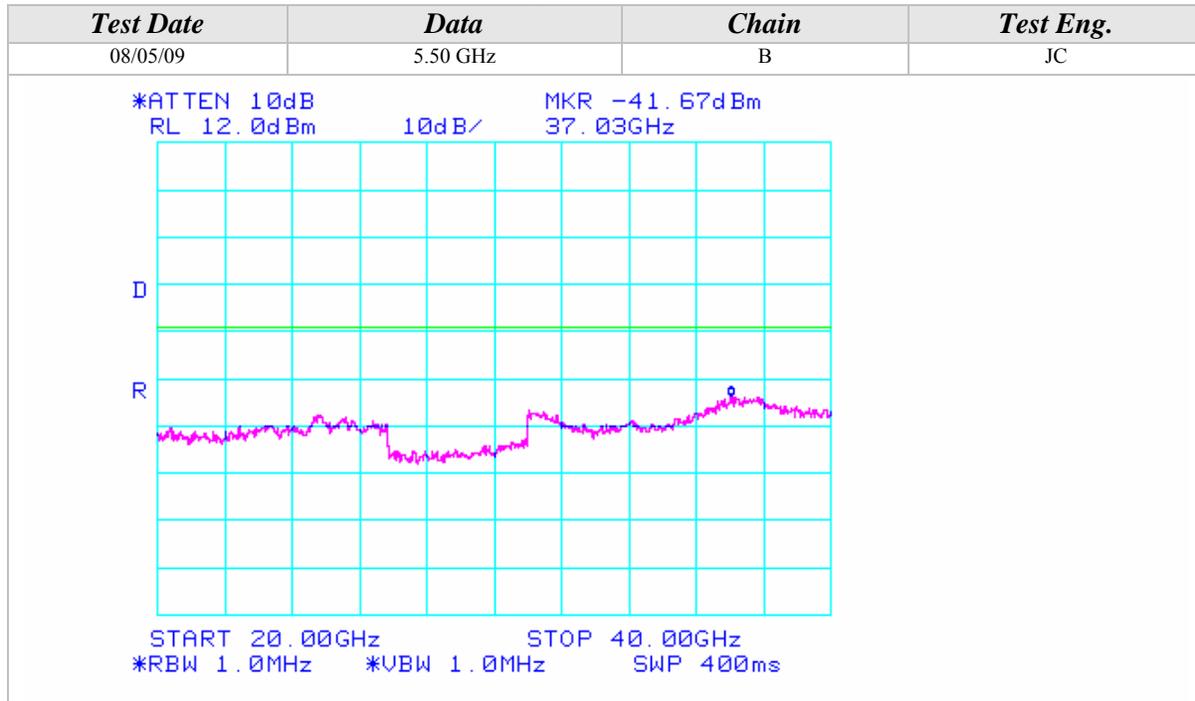
#### 802.11a Mode





### Conducted Out Of Band Emissions (Continued)

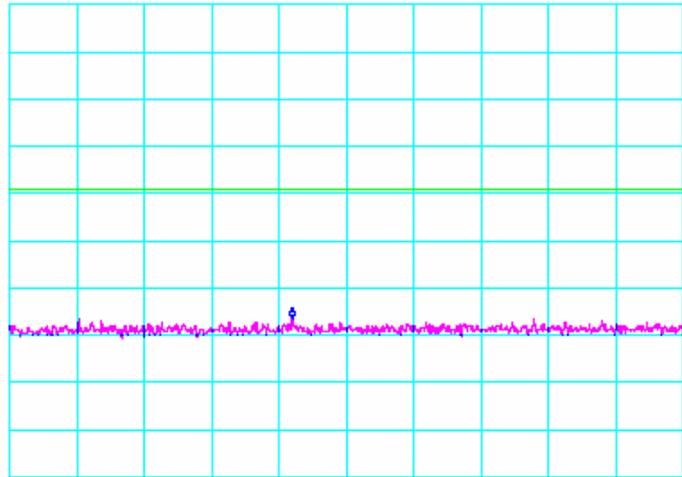
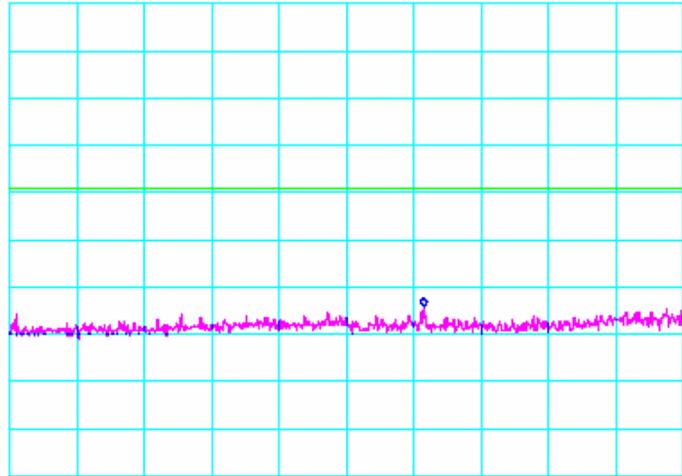
#### 802.11a Mode





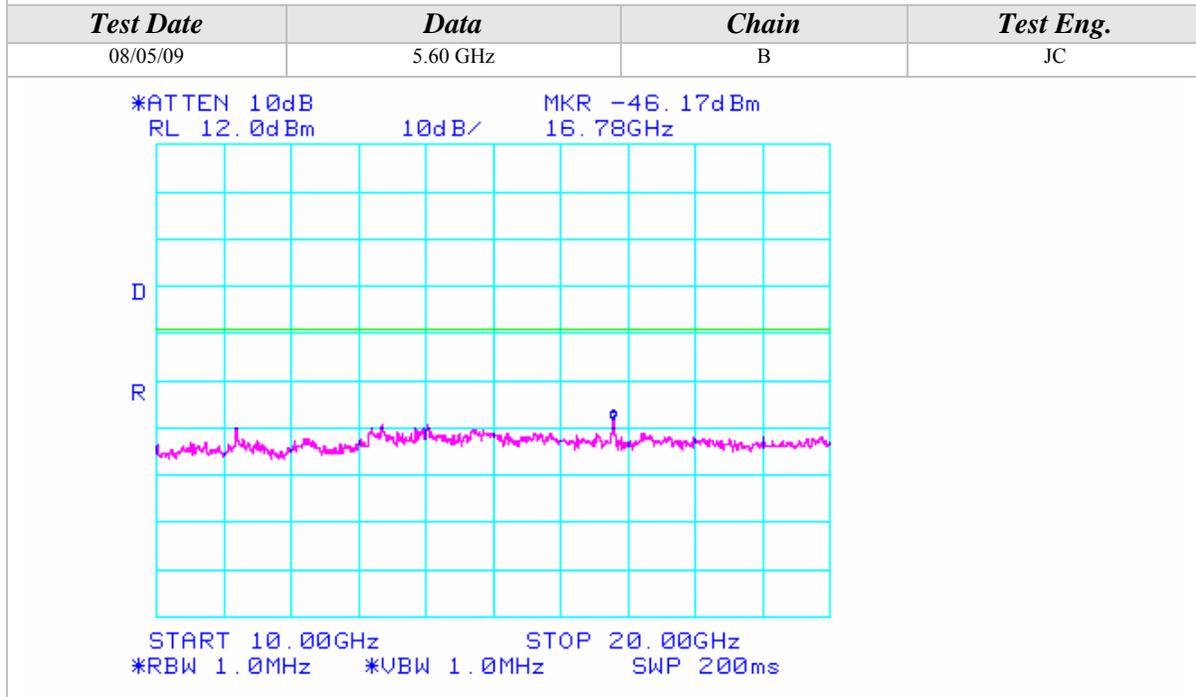
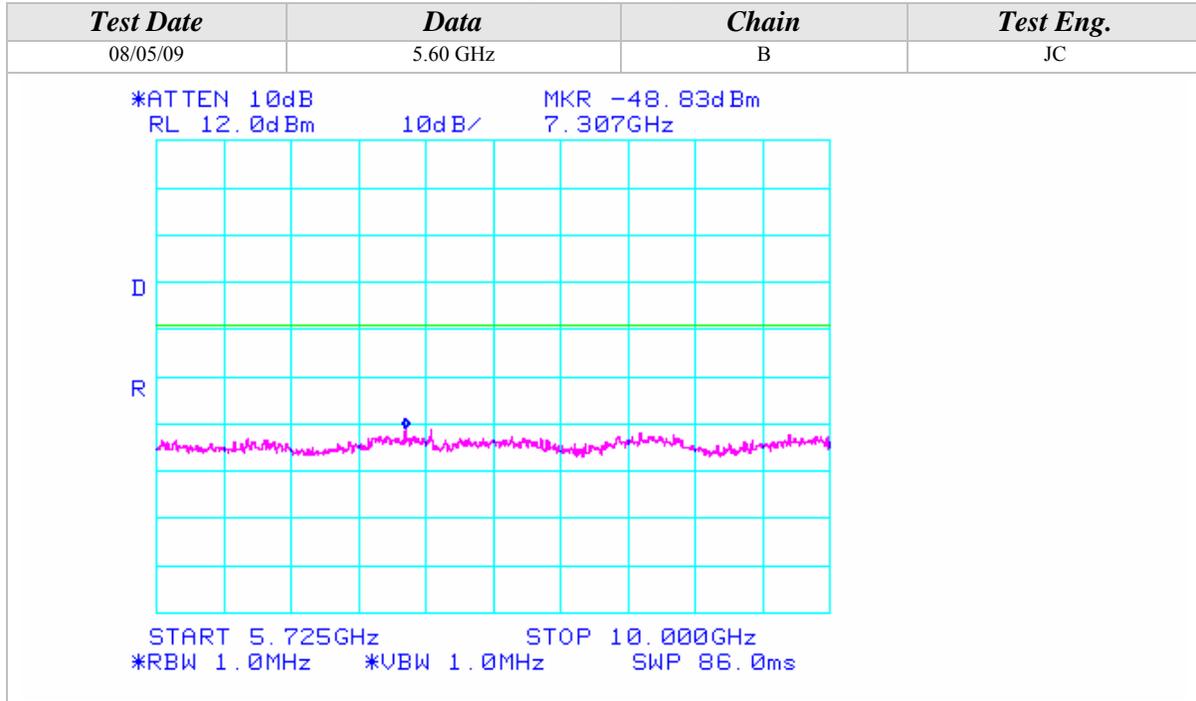
Conducted Out Of Band Emissions (Continued)

802.11a Mode

| Test Date                                                                                                                                                                                                                                                    | Data     | Chain | Test Eng. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-----------|
| 08/05/09                                                                                                                                                                                                                                                     | 5.60 GHz | B     | JC        |
| <p>*ATTEN 10dB      MKR -54.33dBm<br/>RL 12.0dBm      10dB/      437.4MHz</p>  <p>START 30.0MHz      STOP 1.0000GHz<br/>*RBW 1.0MHz      *VBW 1.0MHz      SWP 50.0ms</p>   |          |       |           |
| Test Date                                                                                                                                                                                                                                                    | Data     | Chain | Test Eng. |
| 08/05/09                                                                                                                                                                                                                                                     | 5.60 GHz | B     | JC        |
| <p>*ATTEN 10dB      MKR -52.17dBm<br/>RL 12.0dBm      10dB/      3.743GHz</p>  <p>START 1.000GHz      STOP 5.460GHz<br/>*RBW 1.0MHz      *VBW 1.0MHz      SWP 90.0ms</p> |          |       |           |

## Conducted Out Of Band Emissions (Continued)

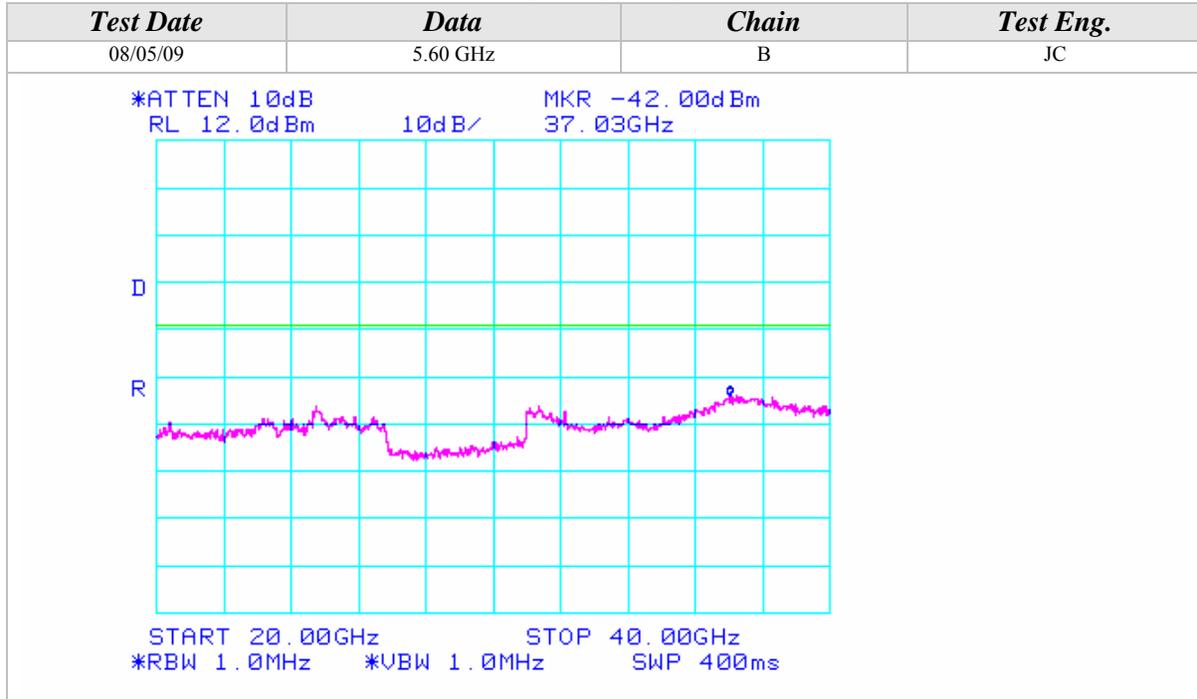
## 802.11a Mode





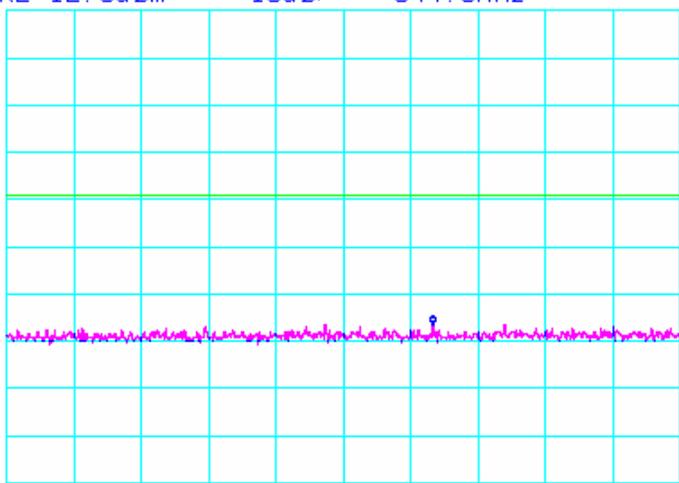
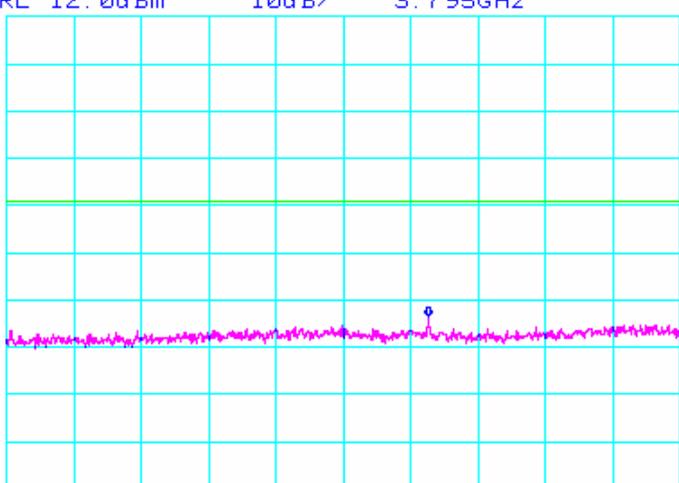
Conducted Out Of Band Emissions (Continued)

802.11a Mode



## Conducted Out Of Band Emissions (Continued)

## 802.11a Mode

| <i>Test Date</i>                                                                                                                                                                                                                                                                                                                 | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|------------------|
| 08/05/09                                                                                                                                                                                                                                                                                                                         | 5.70 GHz    | B            | JC               |
| <div data-bbox="337 409 1036 997"> <pre> *ATTEN 10dB           MKR -54.50dBm RL 12.0dBm          10dB/       644.3MHz  START 30.0MHz        STOP 1.0000GHz *RBW 1.0MHz         *VBW 1.0MHz    SWP 50.0ms                     </pre>  </div>    |             |              |                  |
| <i>Test Date</i>                                                                                                                                                                                                                                                                                                                 | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
| 08/05/09                                                                                                                                                                                                                                                                                                                         | 5.70 GHz    | B            | JC               |
| <div data-bbox="337 1104 1036 1692"> <pre> *ATTEN 10dB           MKR -51.50dBm RL 12.0dBm          10dB/       3.795GHz  START 1.000GHz       STOP 5.460GHz *RBW 1.0MHz         *VBW 1.0MHz    SWP 90.0ms                     </pre>  </div> |             |              |                  |

Conducted Out Of Band Emissions (Continued)

802.11a Mode

| Test Date                                                                                                                                                                                                                                                                                                                                                                       | Data     | Chain | Test Eng. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-----------|
| 08/05/09                                                                                                                                                                                                                                                                                                                                                                        | 5.70 GHz | B     | JC        |
| <p>*ATTEN 10dB                                   MKR -35.67dBm<br/>                     RL 12.0dBm                                  10dB/                              5.725GHz</p> <p>START 5.725GHz                                  STOP 10.000GHz<br/>                     *RBW 1.0MHz                              *VBW 1.0MHz                              SWP 86.0ms</p> |          |       |           |
| Test Date                                                                                                                                                                                                                                                                                                                                                                       | Data     | Chain | Test Eng. |
| 08/05/09                                                                                                                                                                                                                                                                                                                                                                        | 5.70 GHz | B     | JC        |
| <p>*ATTEN 10dB                                   MKR -47.50dBm<br/>                     RL 12.0dBm                                  10dB/                              17.08GHz</p> <p>START 10.00GHz                                  STOP 20.00GHz<br/>                     *RBW 1.0MHz                              *VBW 1.0MHz                              SWP 200ms</p>   |          |       |           |





Conducted Out Of Band Emissions (Continued)

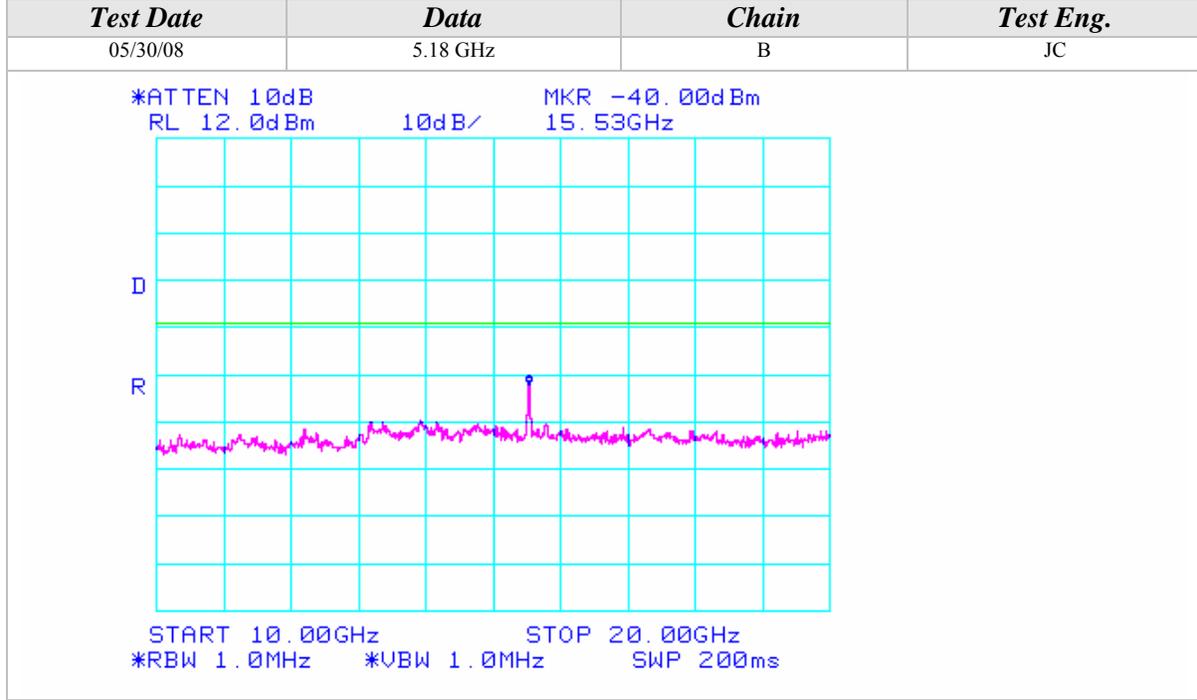
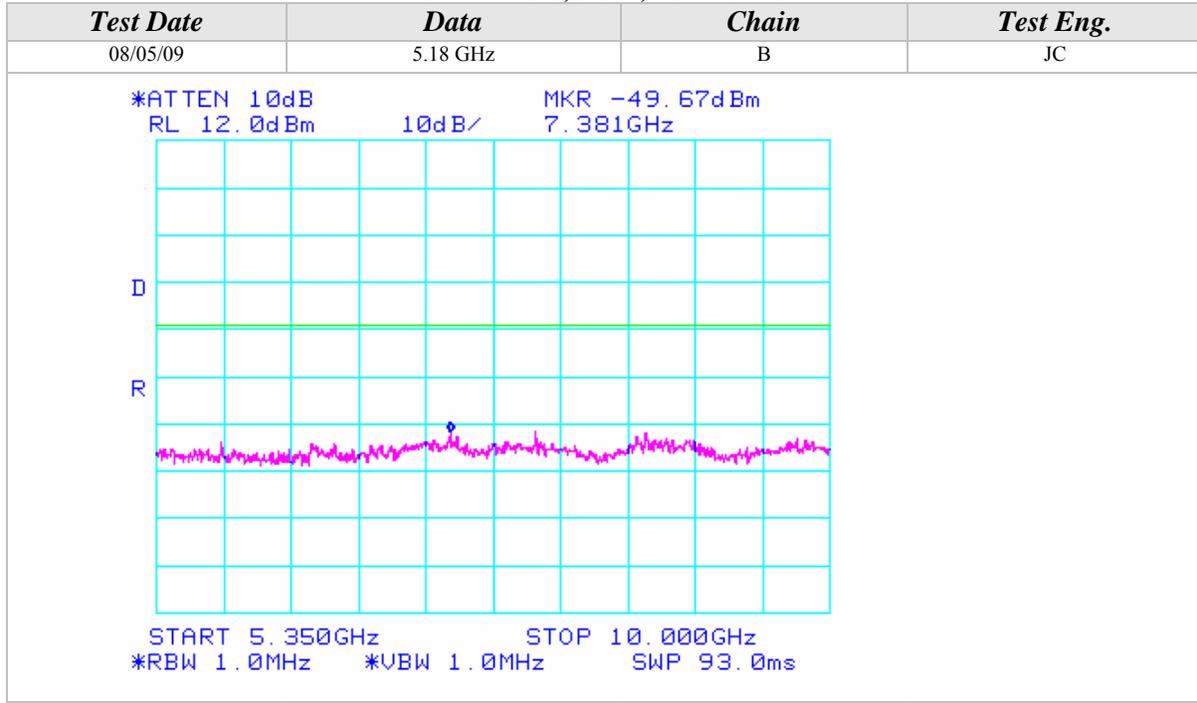
802.11n Mode, 5GHz, 20MHz Wide

| <i>Test Date</i>                                                                                                                                                                                                                                                        | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|------------------|
| 08/05/09                                                                                                                                                                                                                                                                | 5.18 GHz    | B            | JC               |
| <p>*ATTEN 10dB                      MKR -53.33dBm<br/>RL 12.0dBm                      10dB/                      878.8MHz</p> <p>START 30.0MHz                      STOP 1.0000GHz<br/>*RBW 1.0MHz                      *VBW 1.0MHz                      SWP 50.0ms</p> |             |              |                  |
| <i>Test Date</i>                                                                                                                                                                                                                                                        | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
| 05/30/08                                                                                                                                                                                                                                                                | 5.18 GHz    | B            | JC               |
| <p>*ATTEN 10dB                      MKR -35.00dBm<br/>RL 12.0dBm                      10dB/                      5.150GHz</p> <p>START 1.000GHz                      STOP 5.150GHz<br/>*RBW 1.0MHz                      *VBW 1.0MHz                      SWP 83.0ms</p> |             |              |                  |



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide



### Conducted Out Of Band Emissions (Continued)

#### 802.11n Mode, 5GHz, 20MHz Wide

| Test Date                                                                                                                                                                                                                                                                          | Data     | Chain | Test Eng. |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-----------|
| 08/05/09                                                                                                                                                                                                                                                                           | 5.18 GHz | B     | JC        |
| <p>*ATTEN 10dB                      MKR -41.33dBm<br/>           RL 12.0dBm                    10dB/                    37.33GHz</p> <p>START 20.00GHz                    STOP 40.00GHz<br/>           *RBW 1.0MHz                    *VBW 1.0MHz                    SWP 400ms</p> |          |       |           |



Conducted Out Of Band Emissions (Continued)

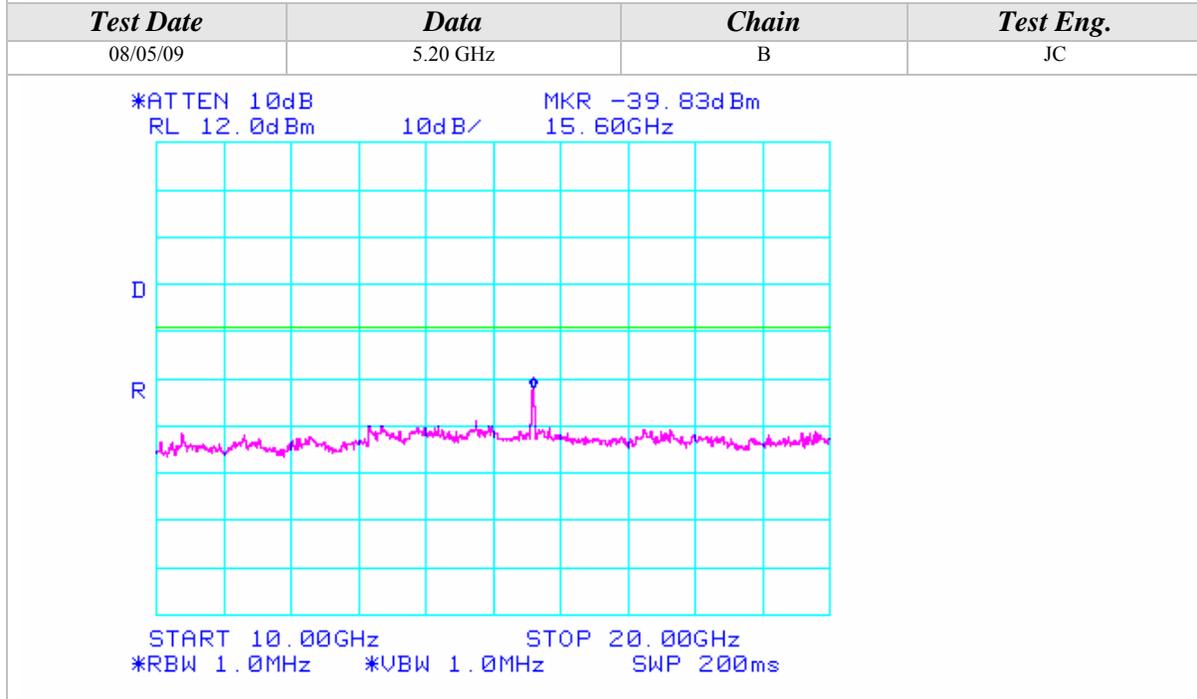
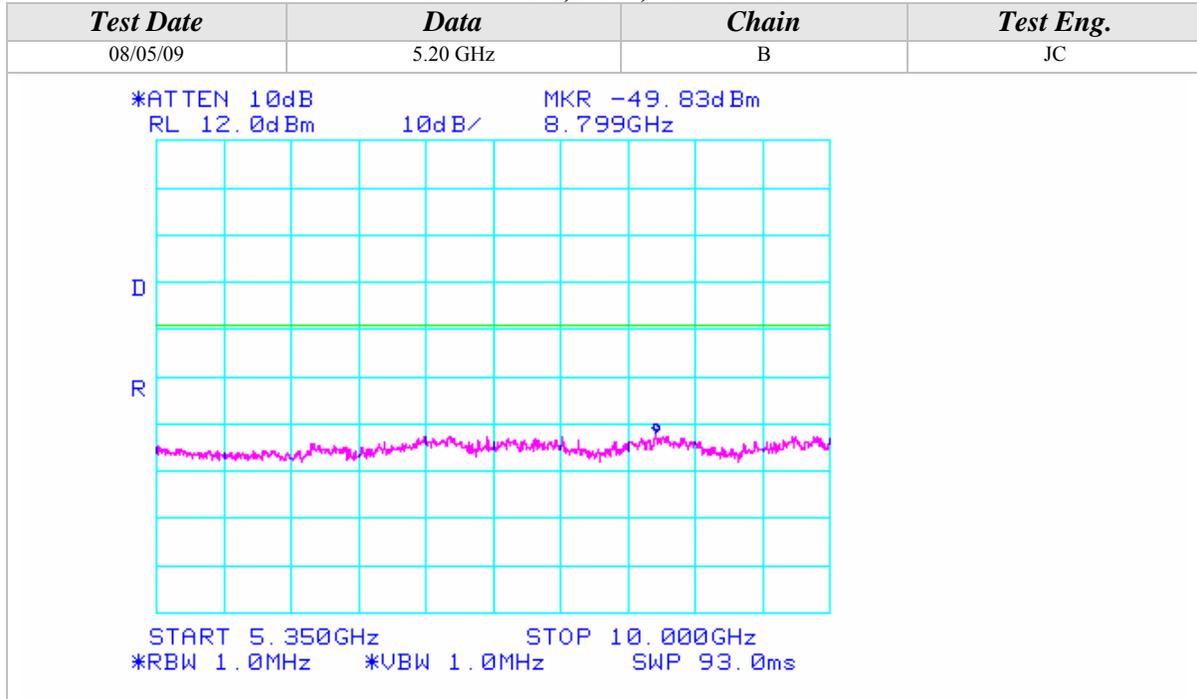
802.11n Mode, 5GHz, 20MHz Wide

| Test Date                                                                                                                                                                                     | Data     | Chain | Test Eng. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-----------|
| 08/05/09                                                                                                                                                                                      | 5.20 GHz | B     | JC        |
| <p>*ATTEN 10dB      MKR -54.17dBm<br/>           RL 12.0dBm      10dB/      972.5MHz</p> <p>START 30.0MHz      STOP 1.0000GHz<br/>           *RBW 1.0MHz      *VBW 1.0MHz      SWP 50.0ms</p> |          |       |           |
| Test Date                                                                                                                                                                                     | Data     | Chain | Test Eng. |
| 08/05/09                                                                                                                                                                                      | 5.20 GHz | B     | JC        |
| <p>*ATTEN 10dB      MKR -42.67dBm<br/>           RL 12.0dBm      10dB/      5.150GHz</p> <p>START 1.000GHz      STOP 5.150GHz<br/>           *RBW 1.0MHz      *VBW 1.0MHz      SWP 83.0ms</p> |          |       |           |



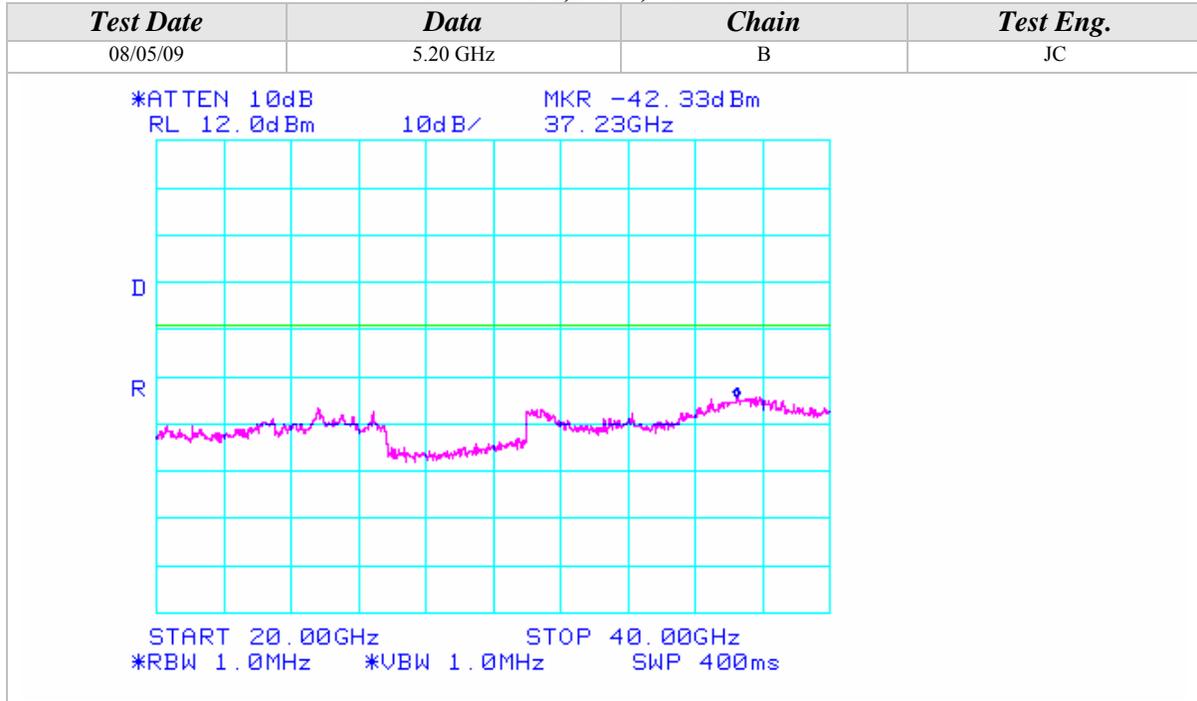
### Conducted Out Of Band Emissions (Continued)

#### 802.11n Mode, 5GHz, 20MHz Wide



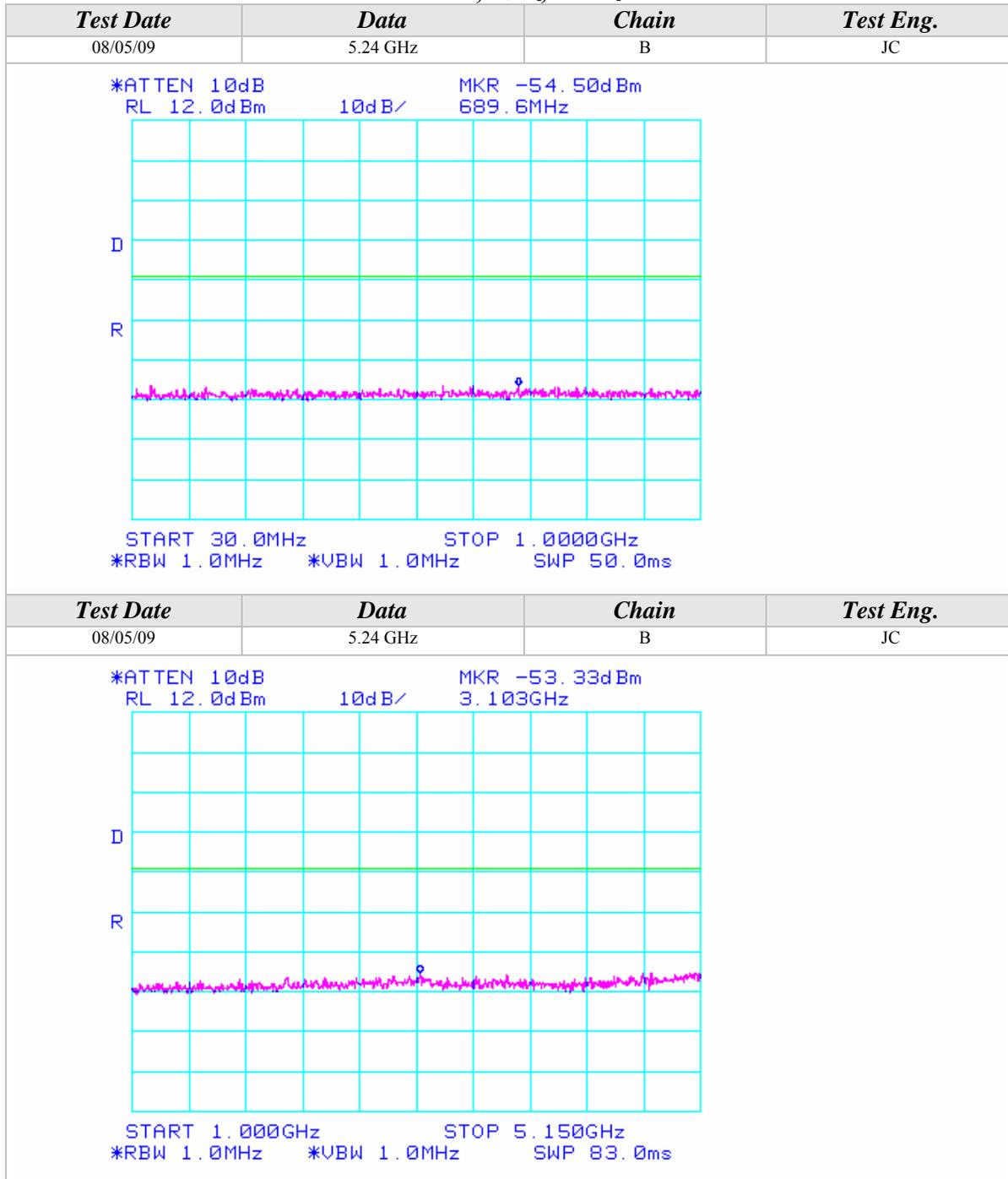
Conducted Out Of Band Emissions (Continued)

*802.11n Mode, 5GHz, 20MHz Wide*



## Conducted Out Of Band Emissions (Continued)

## 802.11n Mode, 5GHz, 20MHz Wide







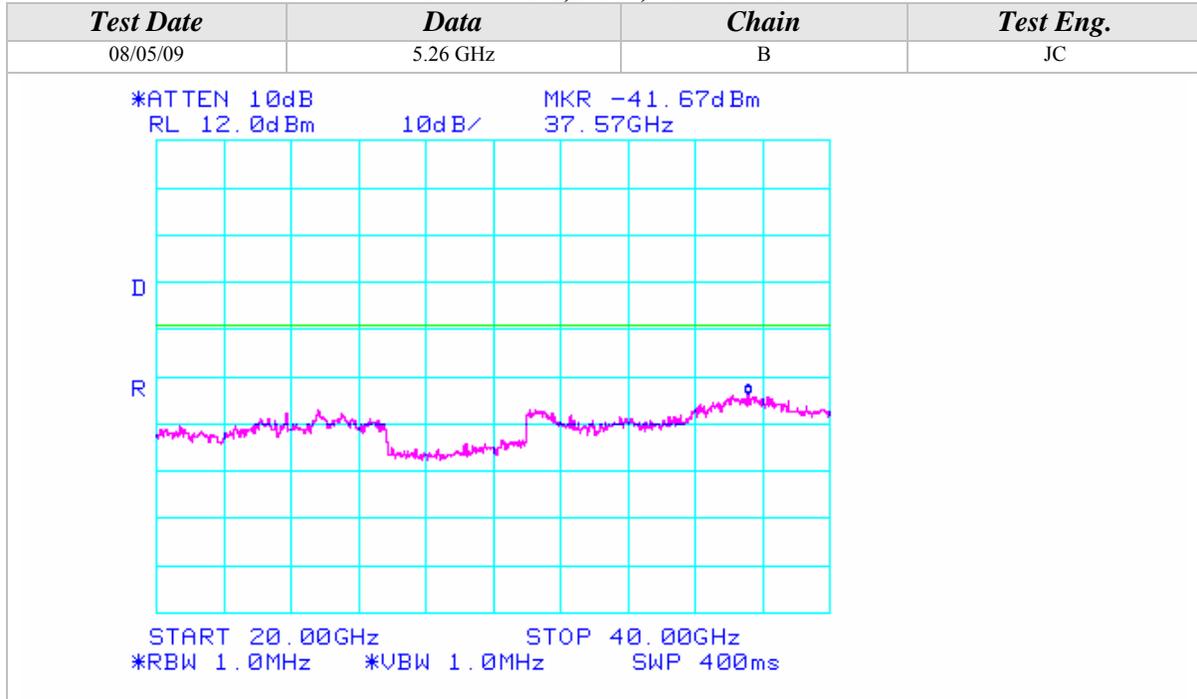






Conducted Out Of Band Emissions (Continued)

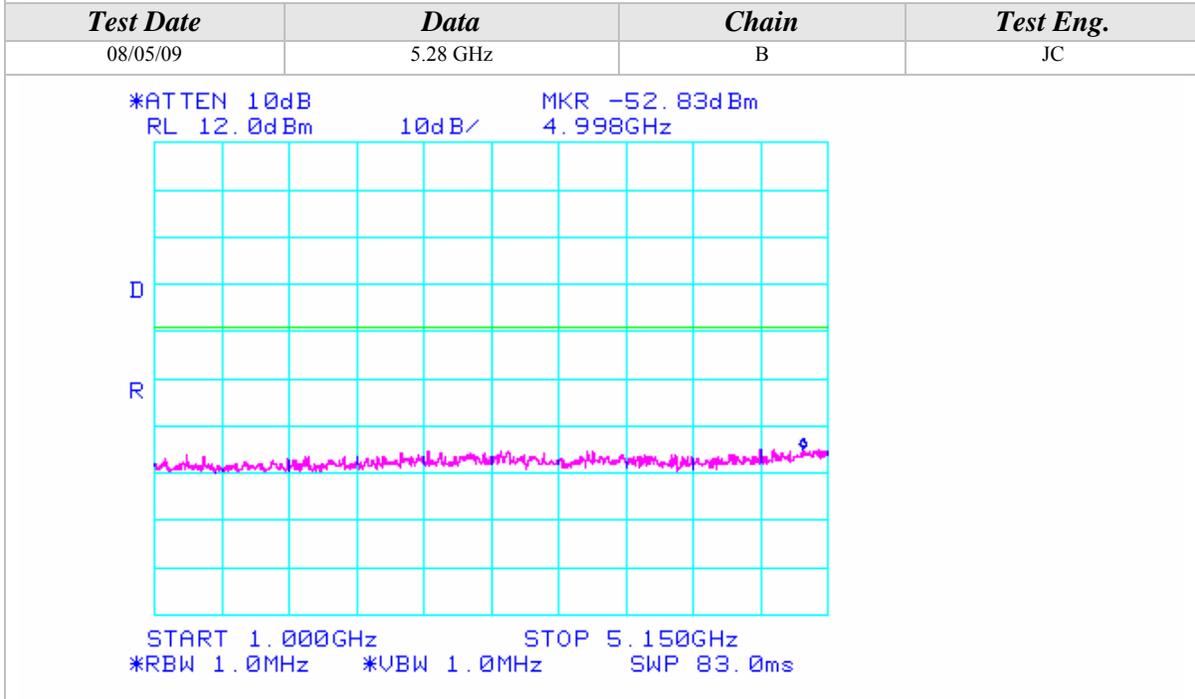
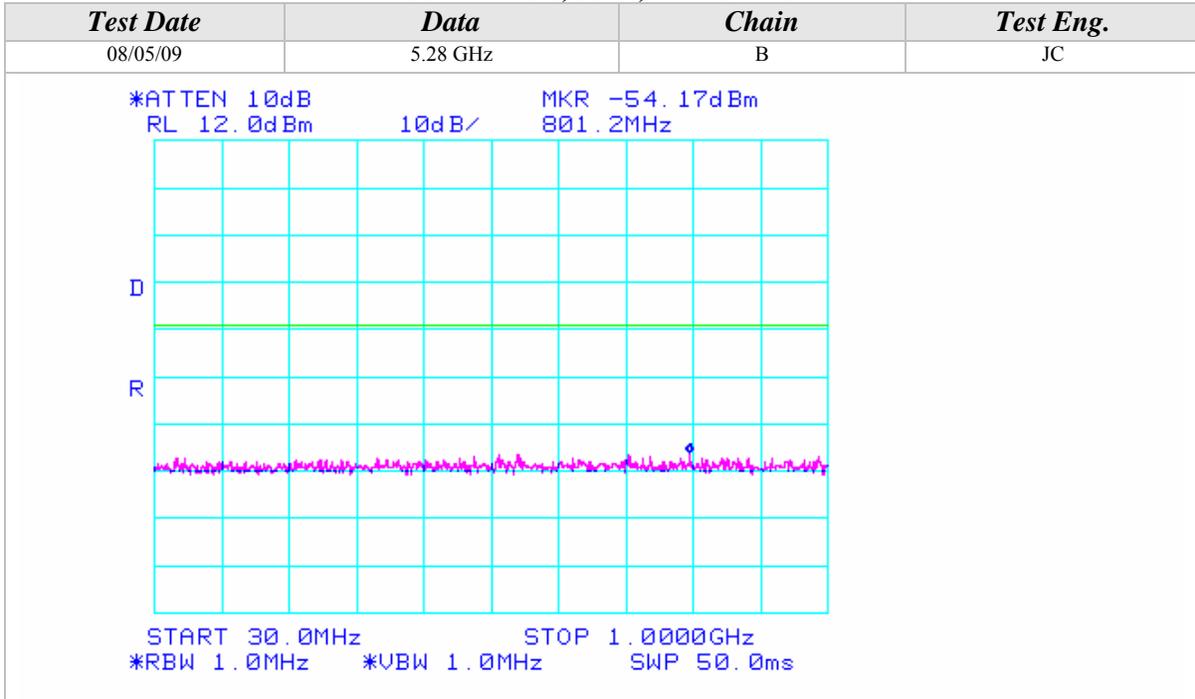
802.11n Mode, 5GHz, 20MHz Wide





Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

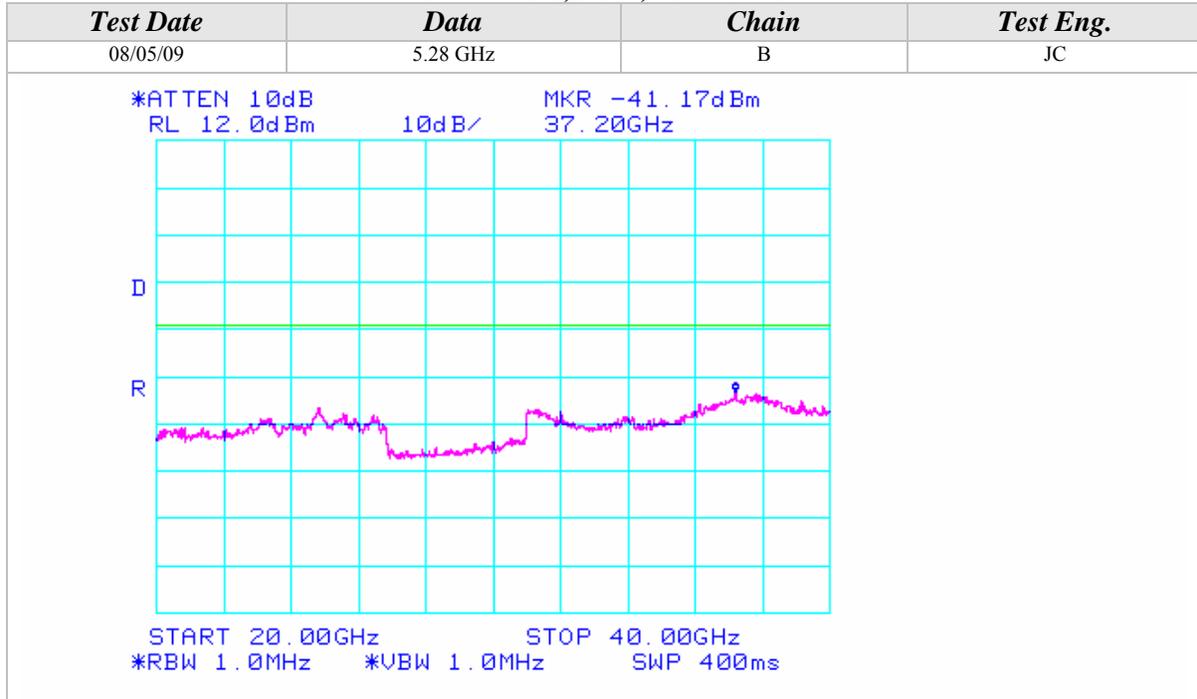






Conducted Out Of Band Emissions (Continued)

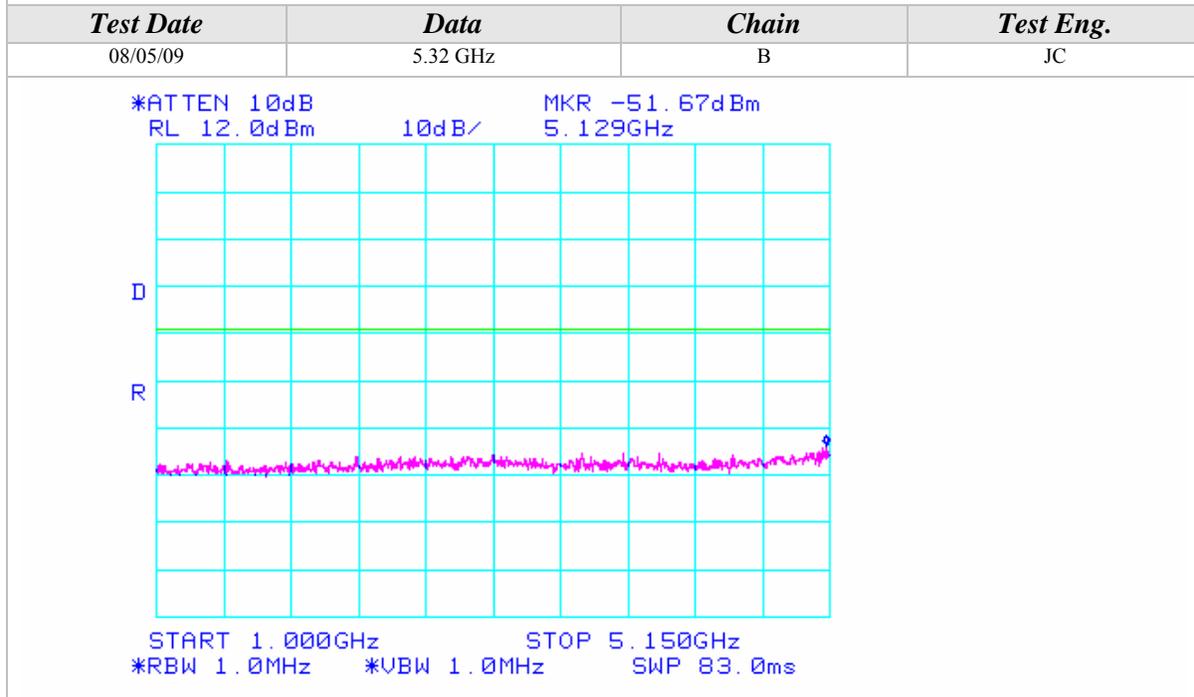
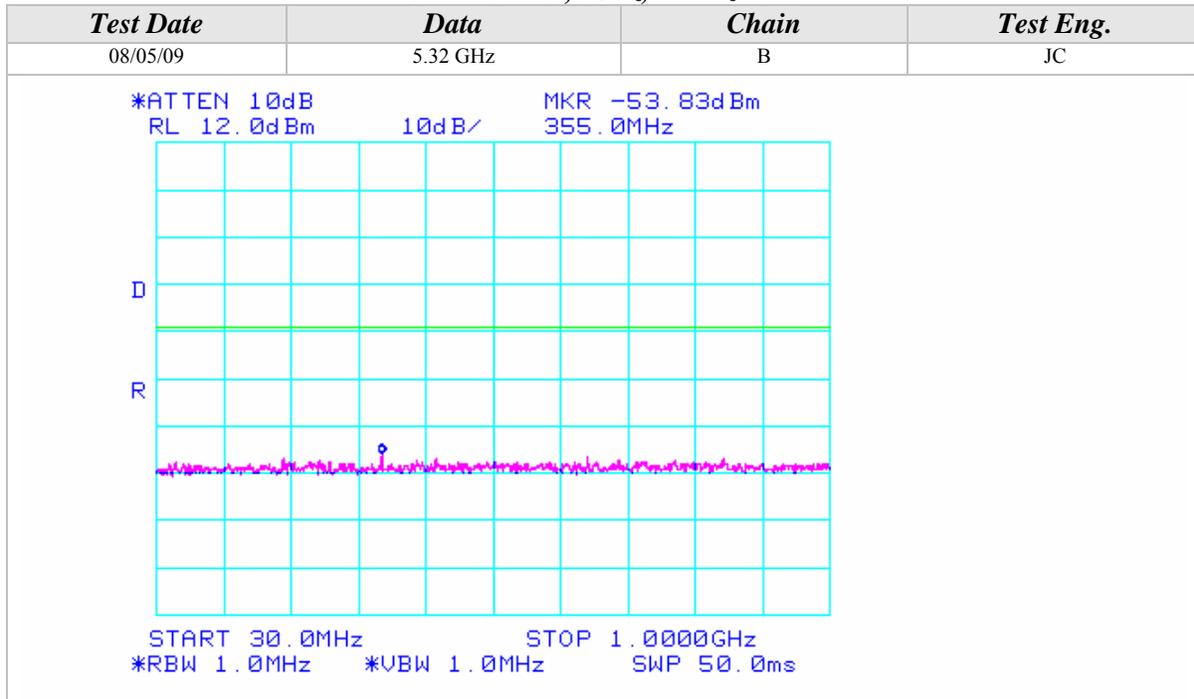
802.11n Mode, 5GHz, 20MHz Wide





Conducted Out Of Band Emissions (Continued)

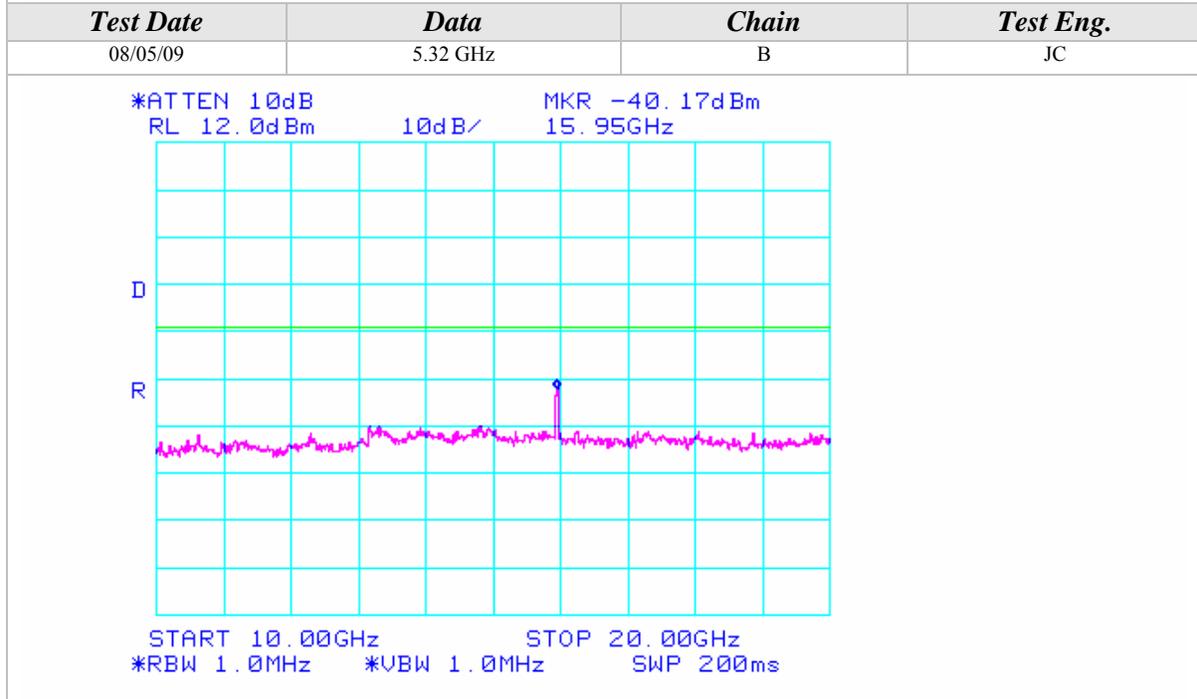
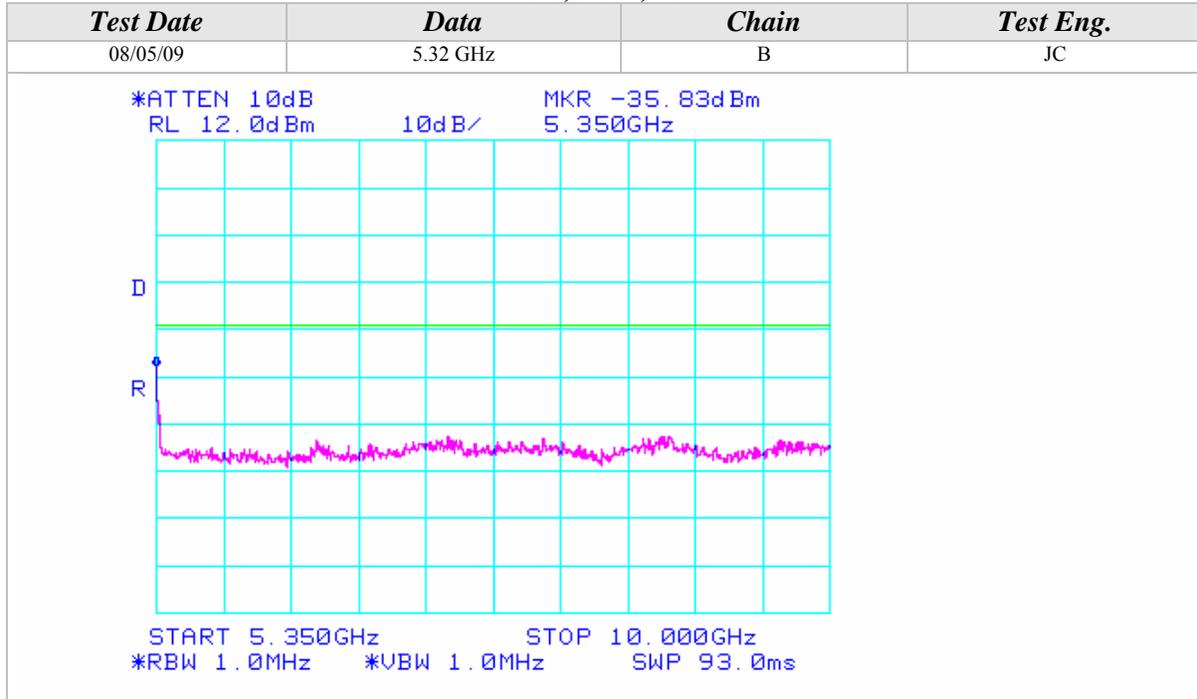
*802.11n Mode, 5GHz, 20MHz Wide*





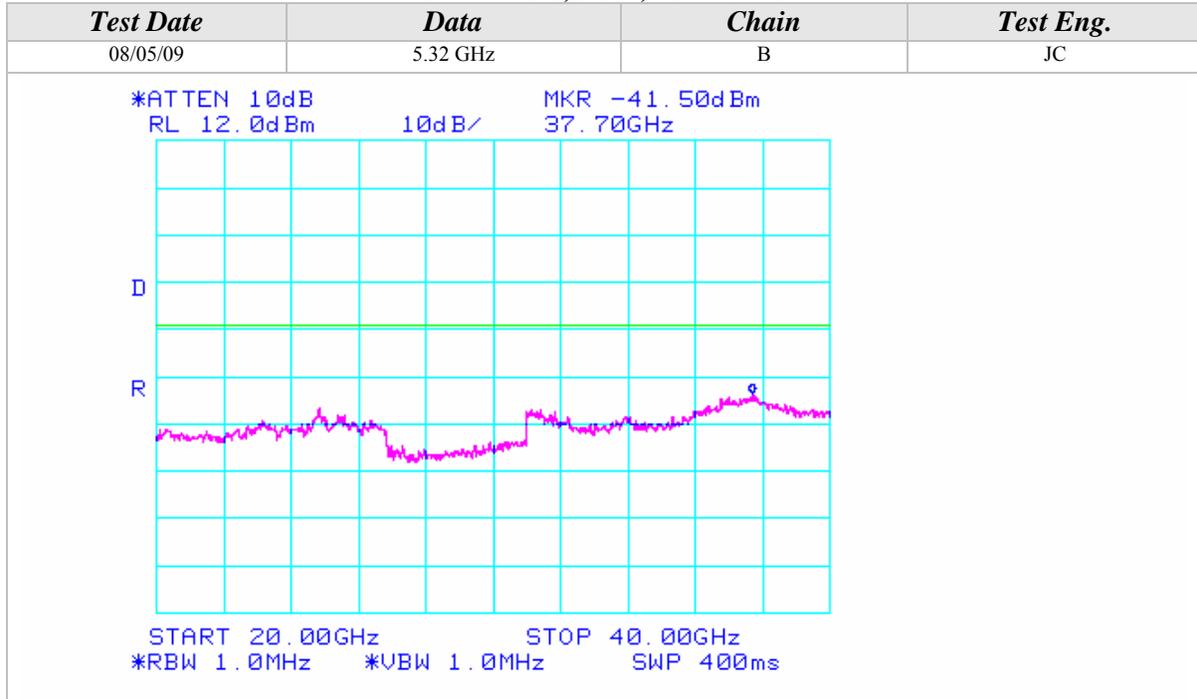
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide



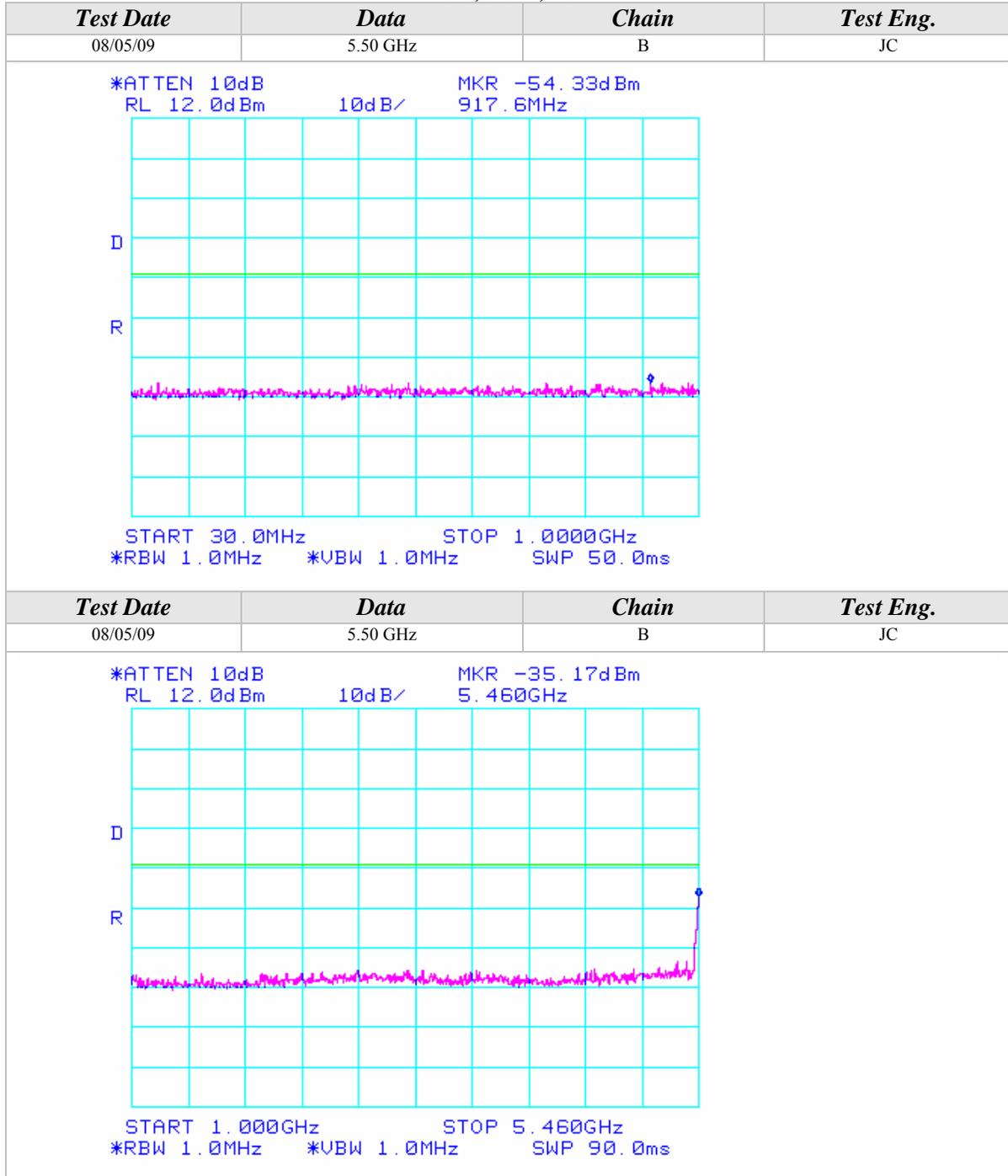
Conducted Out Of Band Emissions (Continued)

*802.11n Mode, 5GHz, 20MHz Wide*



Conducted Out Of Band Emissions (Continued)

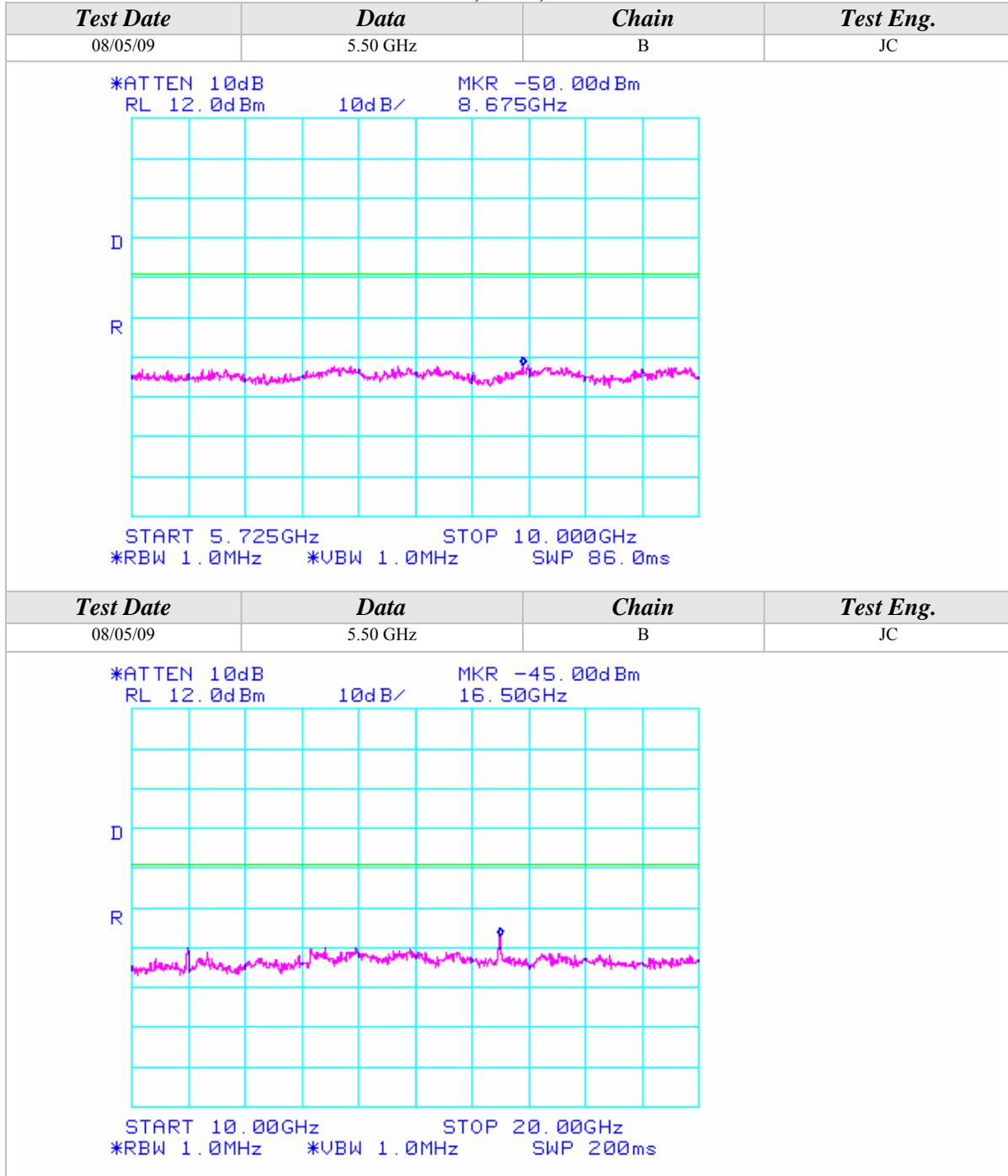
802.11n Mode, 5GHz, 20MHz Wide





Conducted Out Of Band Emissions (Continued)

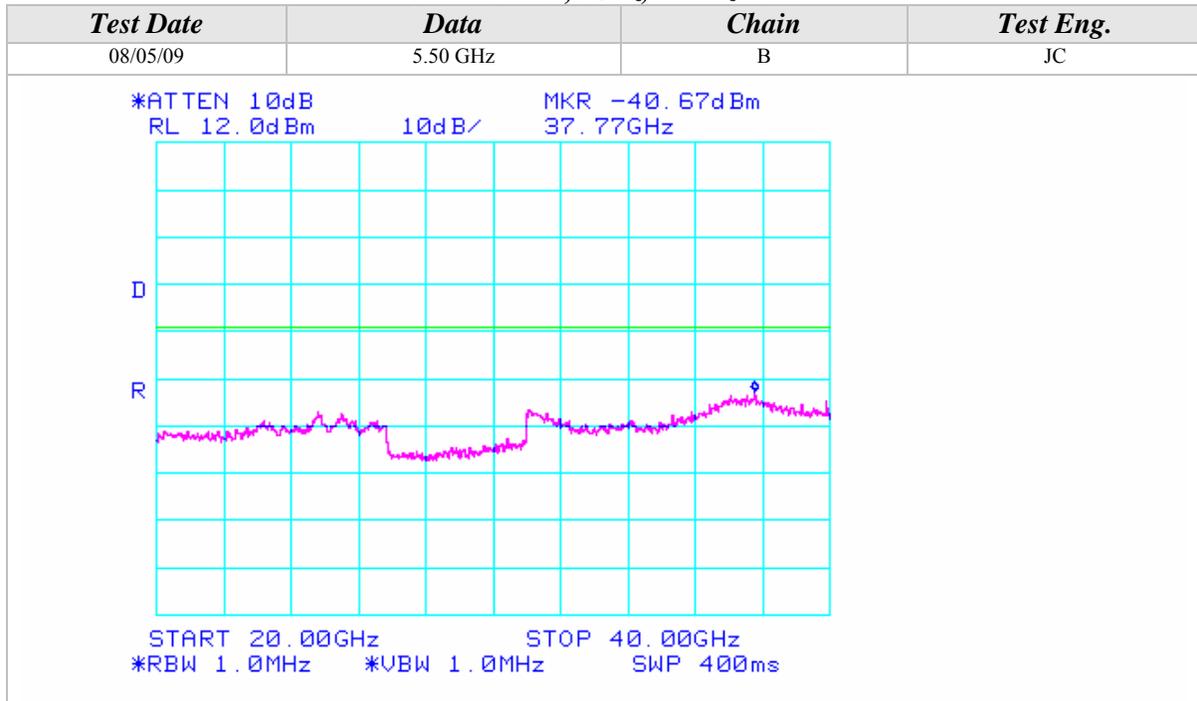
802.11n Mode, 5GHz, 20MHz Wide





### Conducted Out Of Band Emissions (Continued)

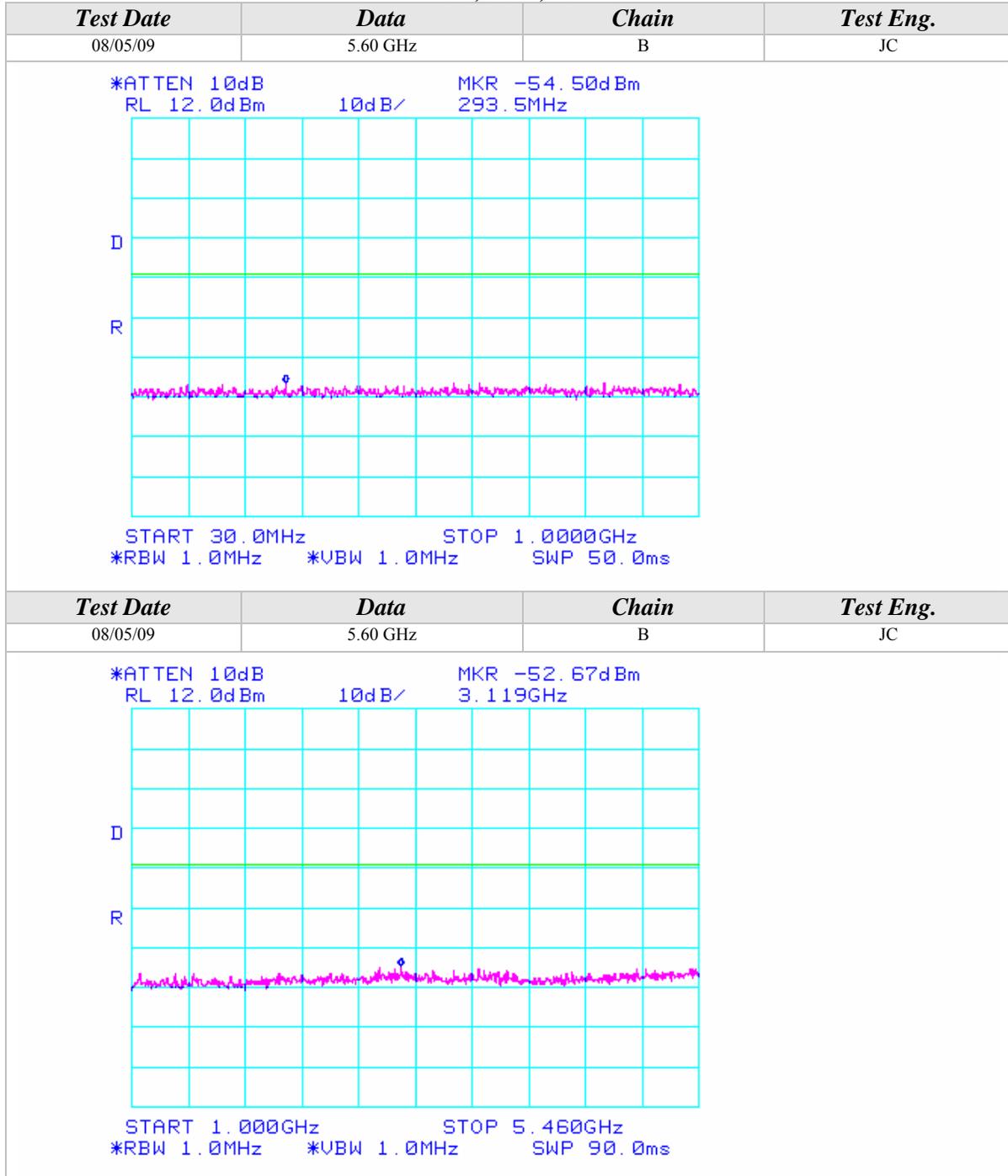
#### 802.11n Mode, 5GHz, 20MHz Wide





Conducted Out Of Band Emissions (Continued)

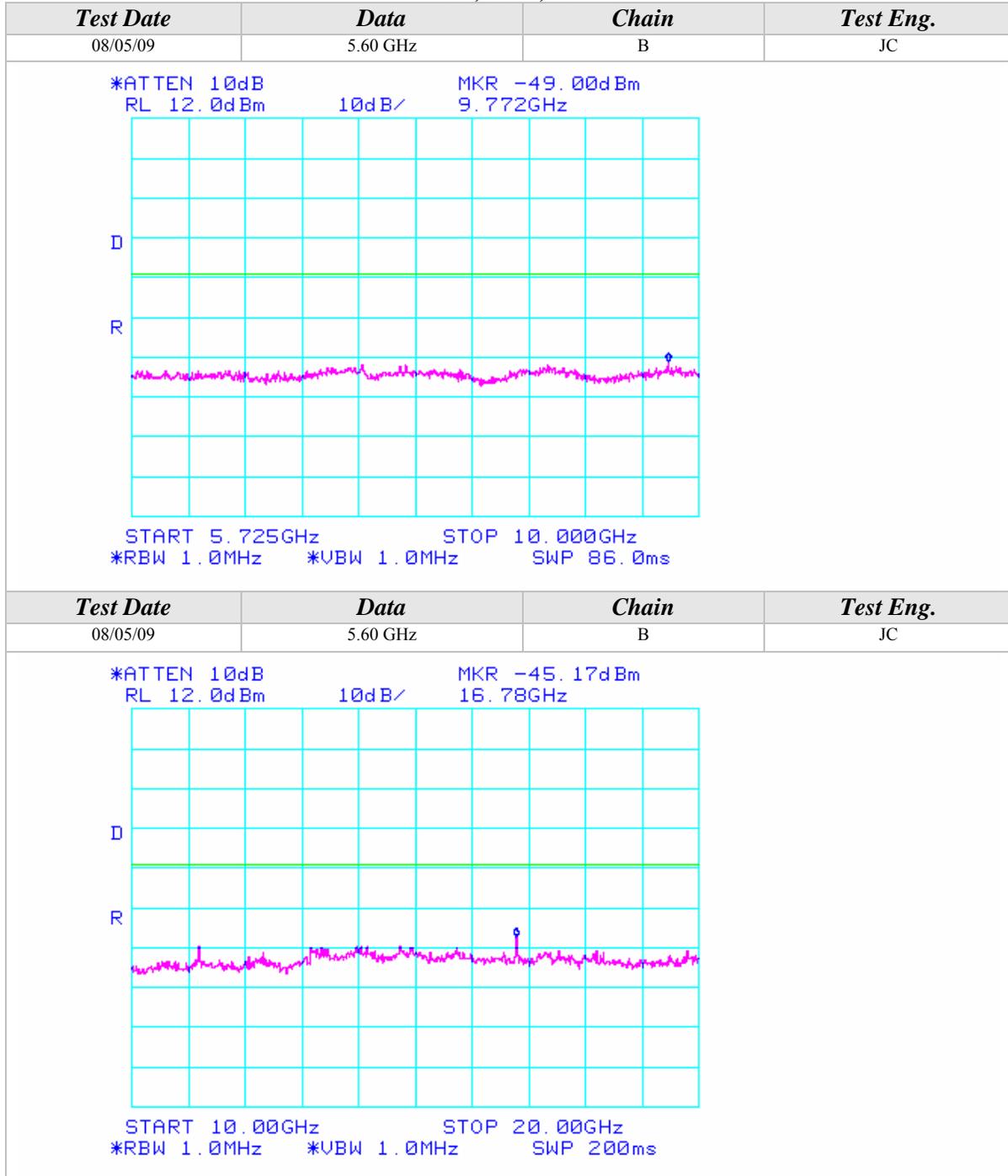
802.11n Mode, 5GHz, 20MHz Wide





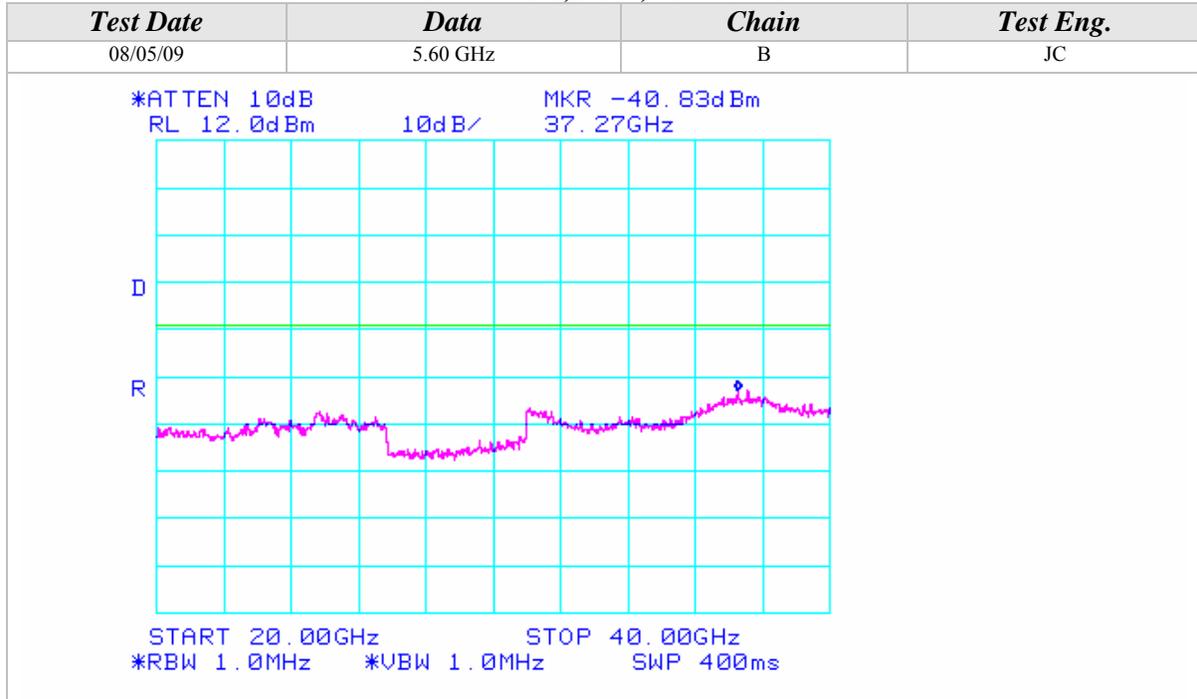
### Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide







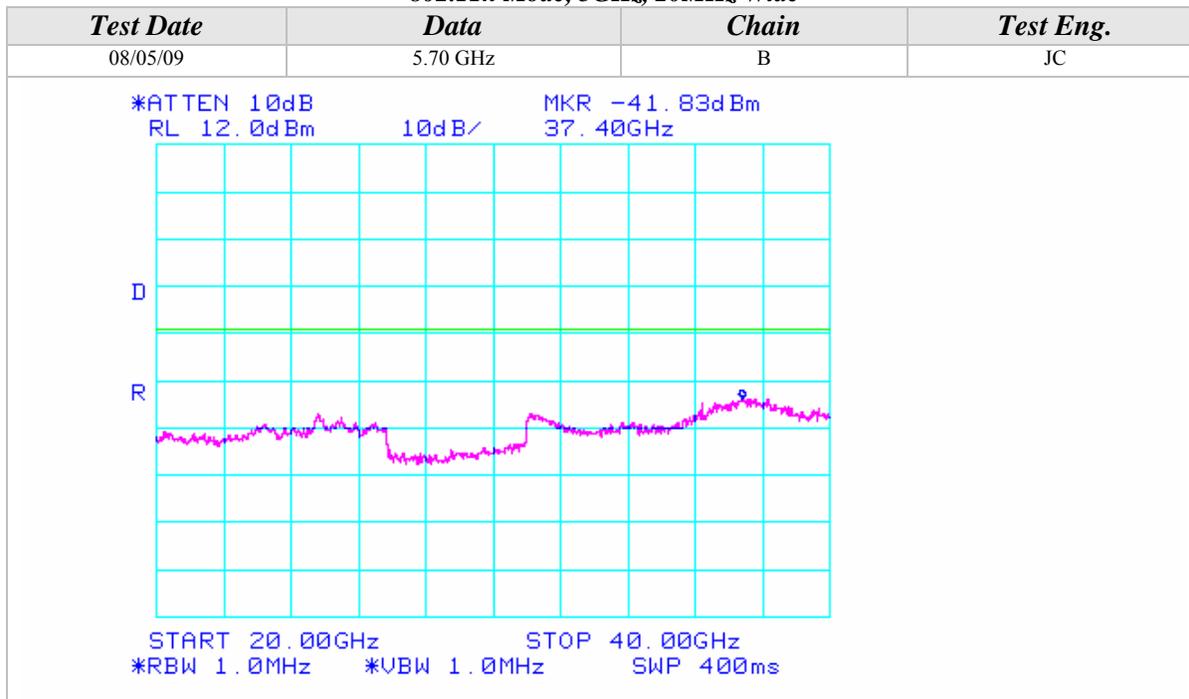
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

| <b>Test Date</b>                                                                                                                                                                               | <b>Data</b> | <b>Chain</b> | <b>Test Eng.</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|------------------|
| 08/05/09                                                                                                                                                                                       | 5.70 GHz    | B            | JC               |
| <p>*ATTEN 10dB      MKR -32.83dBm<br/>           RL 12.0dBm      10dB/      5.725GHz</p> <p>START 5.725GHz      STOP 10.000GHz<br/>           *RBW 1.0MHz      *VBW 1.0MHz      SWP 86.0ms</p> |             |              |                  |
| <b>Test Date</b>                                                                                                                                                                               | <b>Data</b> | <b>Chain</b> | <b>Test Eng.</b> |
| 08/05/09                                                                                                                                                                                       | 5.70 GHz    | B            | JC               |
| <p>*ATTEN 10dB      MKR -47.67dBm<br/>           RL 12.0dBm      10dB/      11.38GHz</p> <p>START 10.00GHz      STOP 20.00GHz<br/>           *RBW 1.0MHz      *VBW 1.0MHz      SWP 200ms</p>   |             |              |                  |

Conducted Out Of Band Emissions (Continued)

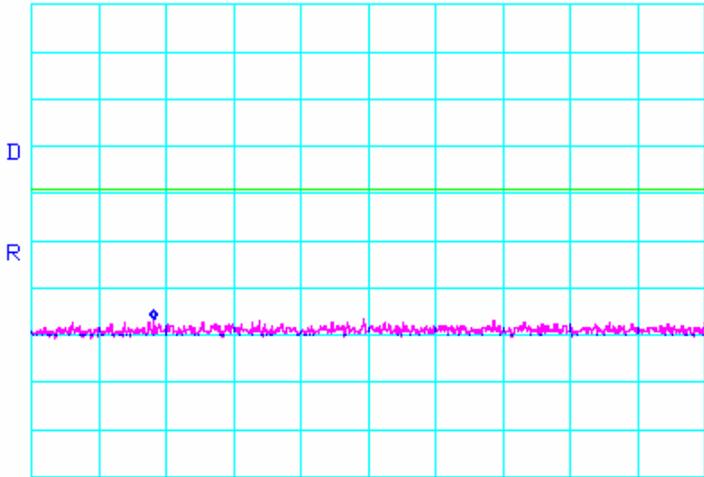
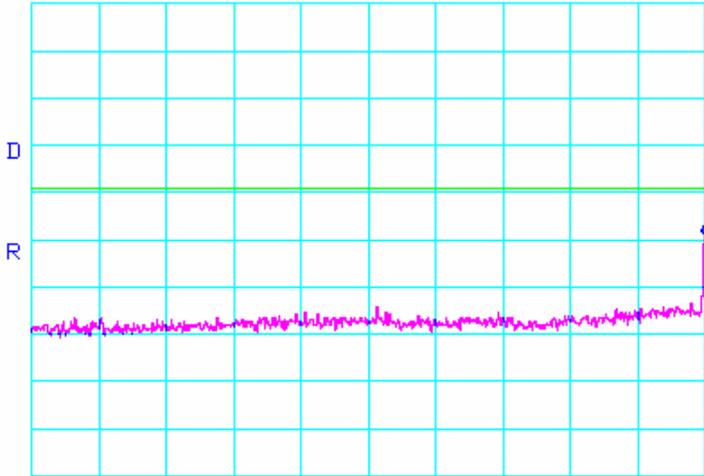
802.11n Mode, 5GHz, 20MHz Wide





Conducted Out Of Band Emissions (Continued)

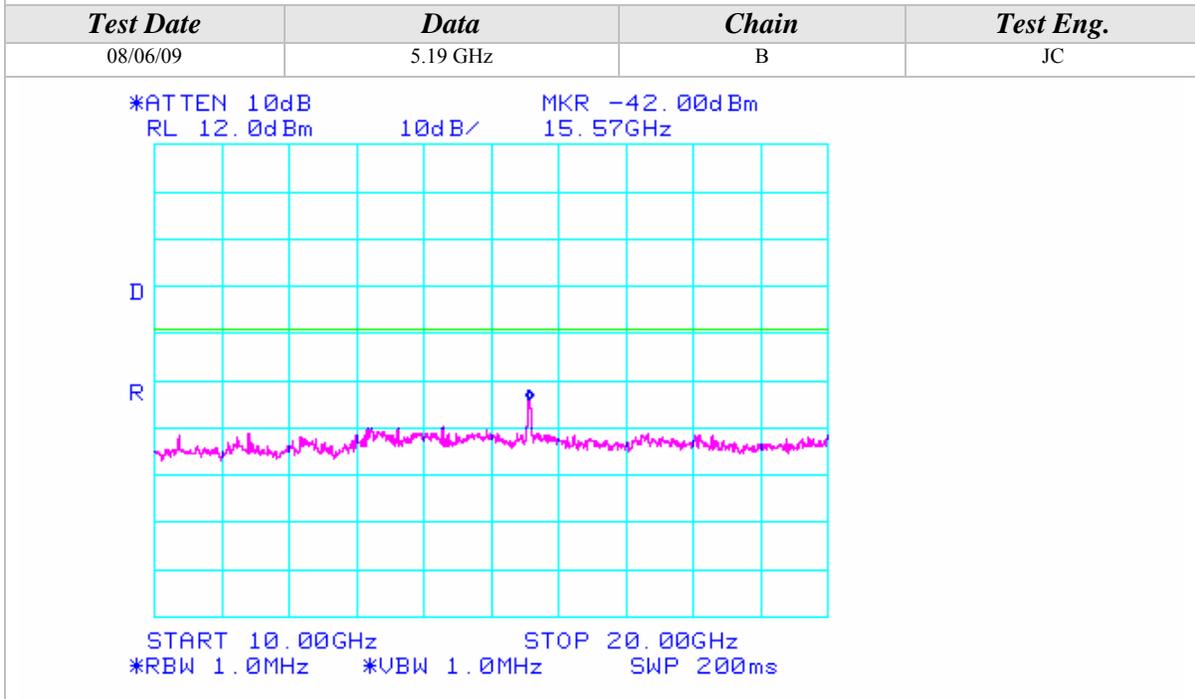
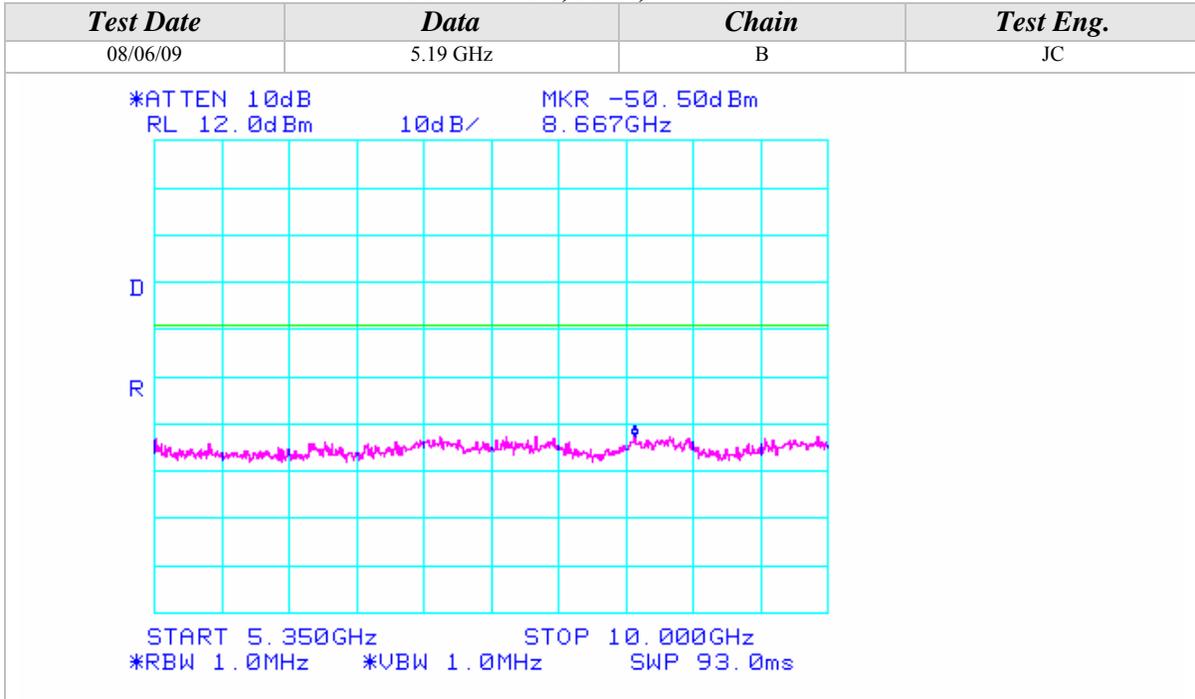
802.11n Mode, 5GHz, 40MHz Wide

| <i>Test Date</i>                                                                                                                                                                                                                                   | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|------------------|
| 08/06/09                                                                                                                                                                                                                                           | 5.19 GHz    | B            | JC               |
| *ATTEN 10dB      MKR -54.67dBm<br>RL 12.0dBm      10dB/      206.2MHz<br><br>START 30.0MHz      STOP 1.0000GHz<br>*RBW 1.0MHz      *VBW 1.0MHz      SWP 50.0ms   |             |              |                  |
| <i>Test Date</i>                                                                                                                                                                                                                                   | <i>Data</i> | <i>Chain</i> | <i>Test Eng.</i> |
| 08/06/09                                                                                                                                                                                                                                           | 5.19 GHz    | B            | JC               |
| *ATTEN 10dB      MKR -37.00dBm<br>RL 12.0dBm      10dB/      5.150GHz<br><br>START 1.000GHz      STOP 5.150GHz<br>*RBW 1.0MHz      *VBW 1.0MHz      SWP 83.0ms |             |              |                  |



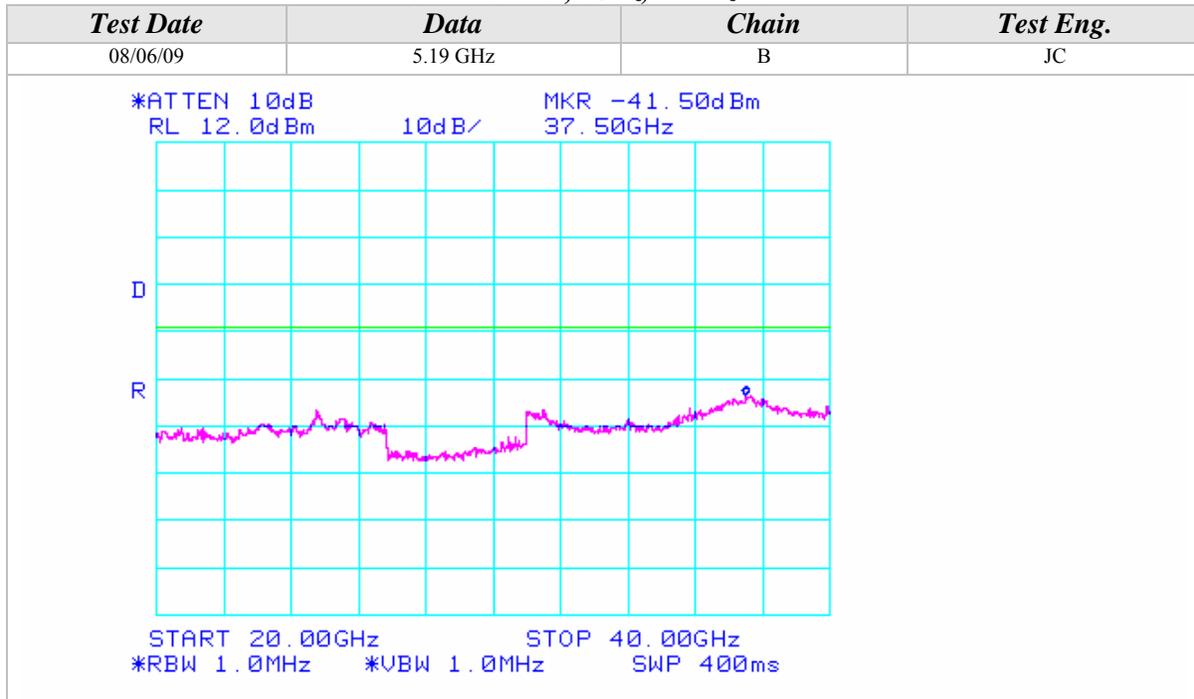
Conducted Out Of Band Emissions (Continued)

**802.11n Mode, 5GHz, 40MHz Wide**



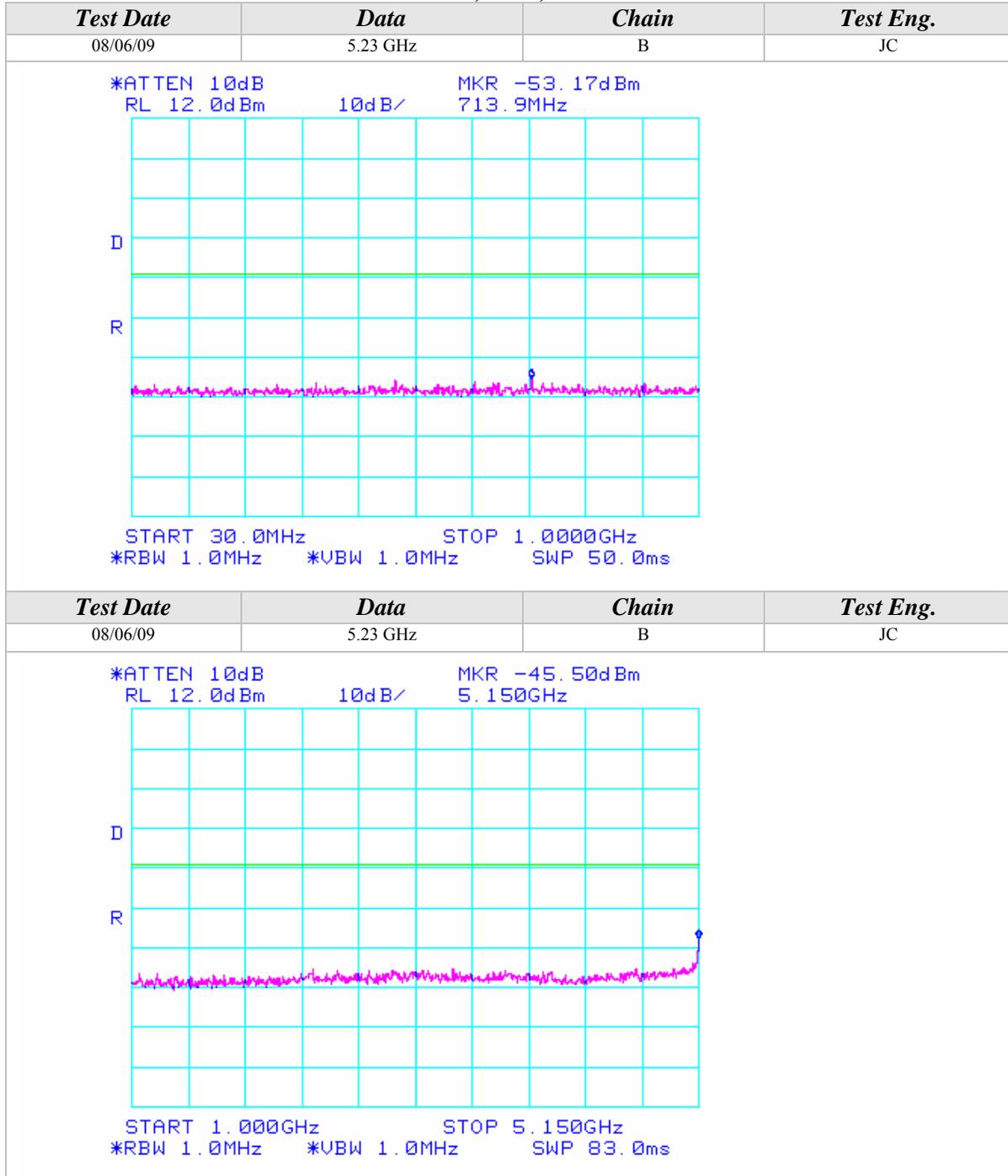
### Conducted Out Of Band Emissions (Continued)

#### 802.11n Mode, 5GHz, 40MHz Wide



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

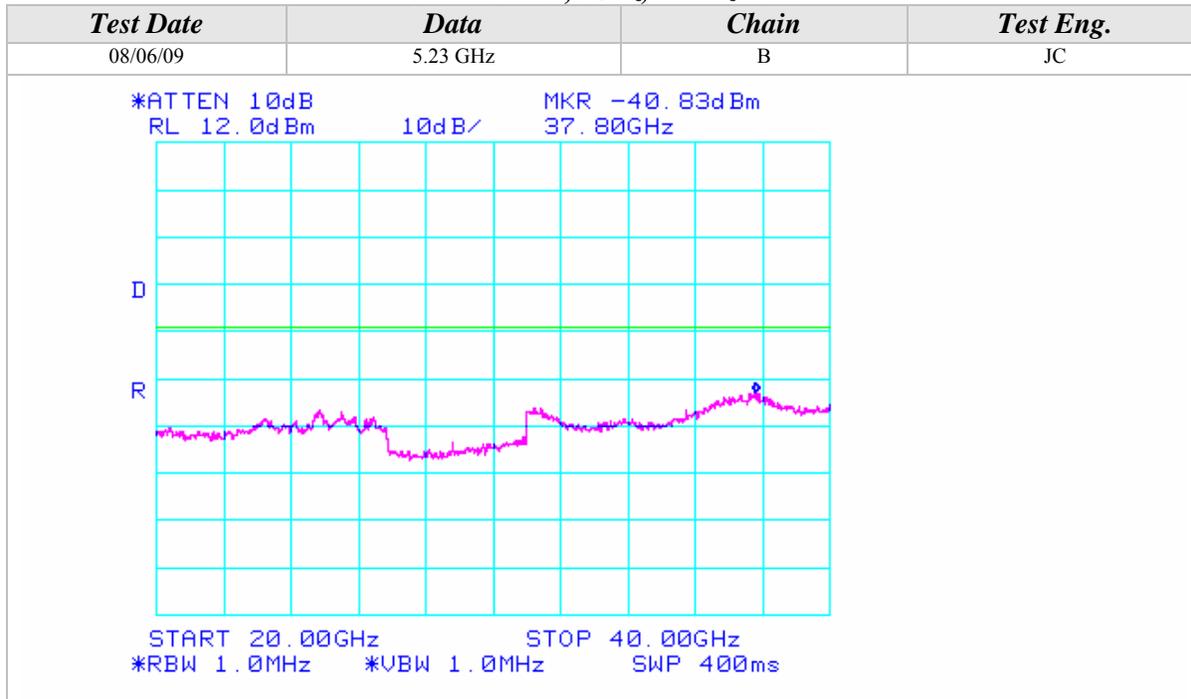






Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide





Conducted Out Of Band Emissions (Continued)

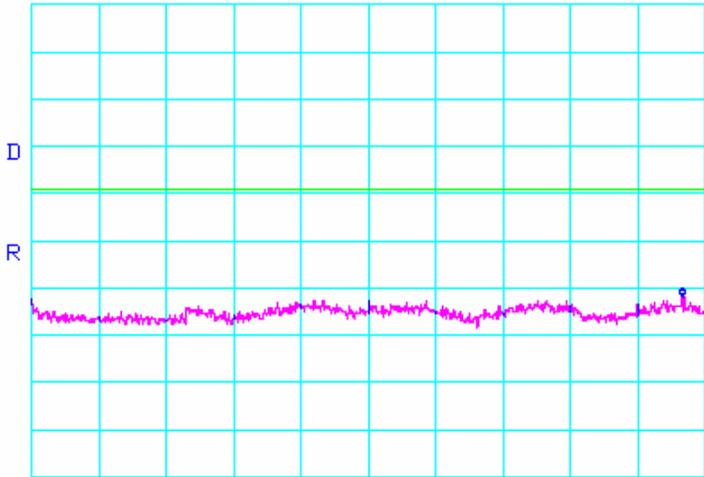
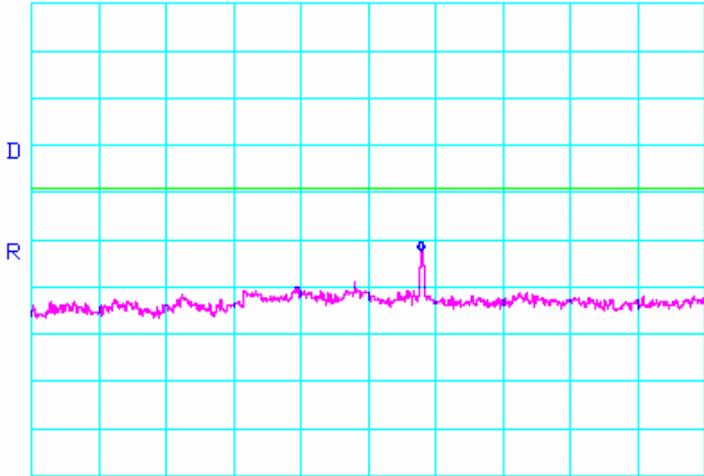
802.11n Mode, 5GHz, 40MHz Wide

| Test Date                                                                                                                                                       | Data     | Chain | Test Eng. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-----------|
| 08/06/09                                                                                                                                                        | 5.27 GHz | B     | JC        |
| <p>*ATTEN 10dB MKR -54.83dBm<br/>           RL 12.0dBm 10dB/ 298.4MHz</p> <p>START 30.0MHz STOP 1.0000GHz<br/>           *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms</p> |          |       |           |
| Test Date                                                                                                                                                       | Data     | Chain | Test Eng. |
| 08/06/09                                                                                                                                                        | 5.27 GHz | B     | JC        |
| <p>*ATTEN 10dB MKR -52.33dBm<br/>           RL 12.0dBm 10dB/ 3.179GHz</p> <p>START 1.000GHz STOP 5.150GHz<br/>           *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms</p> |          |       |           |



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

| Test Date                                                                                                                                                                                                                         | Data     | Chain | Test Eng. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-----------|
| 08/06/09                                                                                                                                                                                                                          | 5.27 GHz | B     | JC        |
| <p>*ATTEN 10dB<br/>RL 12.0dBm 10dB/ MKR -49.83dBm<br/>9.845GHz</p>  <p>START 5.350GHz STOP 10.000GHz<br/>*RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms</p> |          |       |           |
| Test Date                                                                                                                                                                                                                         | Data     | Chain | Test Eng. |
| 08/06/09                                                                                                                                                                                                                          | 5.27 GHz | B     | JC        |
| <p>*ATTEN 10dB<br/>RL 12.0dBm 10dB/ MKR -40.50dBm<br/>15.78GHz</p>  <p>START 10.00GHz STOP 20.00GHz<br/>*RBW 1.0MHz *VBW 1.0MHz SWP 200ms</p> |          |       |           |





Conducted Out Of Band Emissions (Continued)

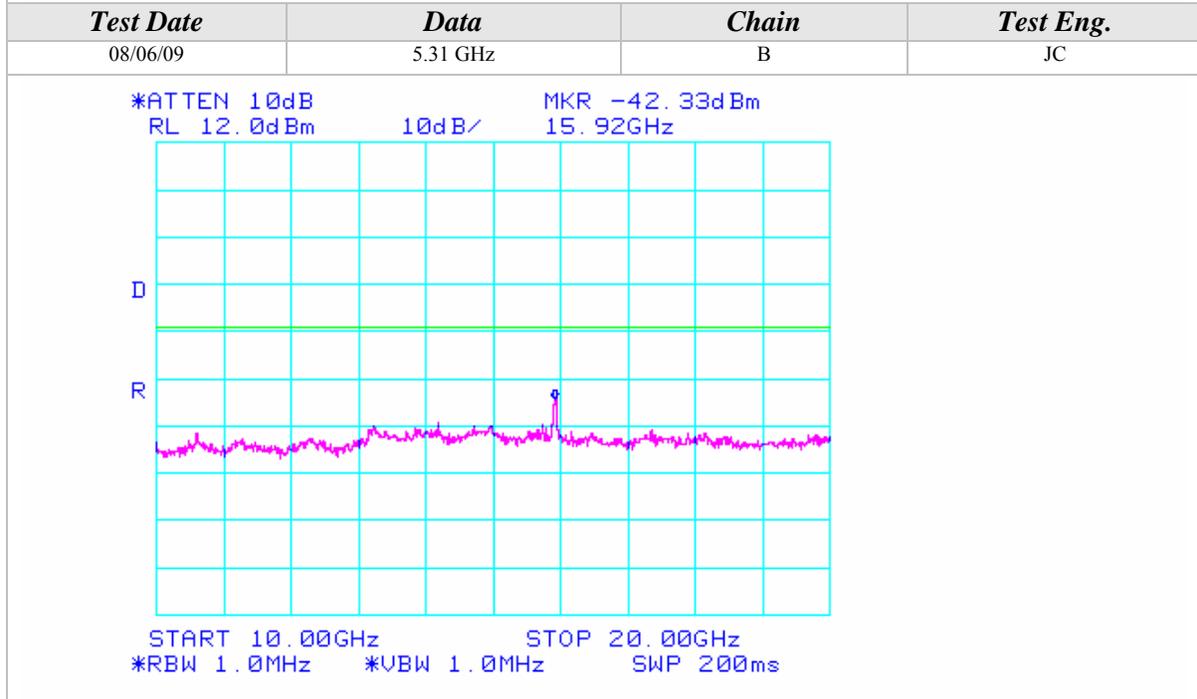
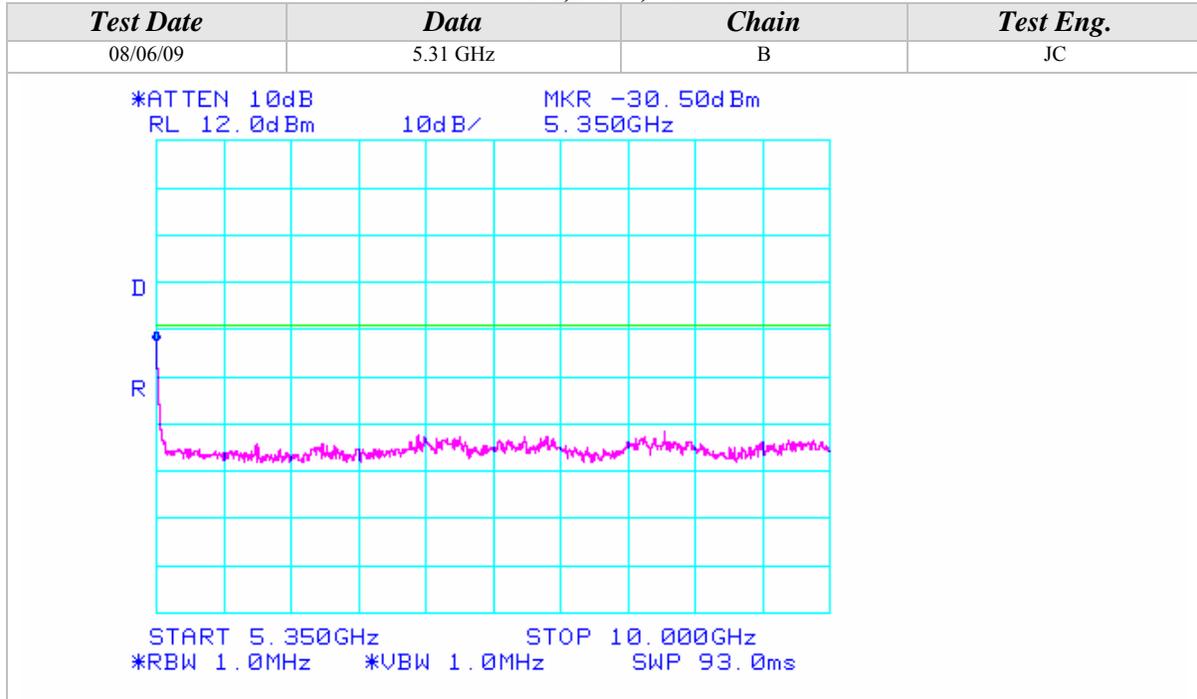
802.11n Mode, 5GHz, 40MHz Wide

| Test Date                                                                                                                                                                                                                                                               | Data     | Chain | Test Eng. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-----------|
| 08/06/09                                                                                                                                                                                                                                                                | 5.31 GHz | B     | JC        |
| <p>*ATTEN 10dB                      MKR -54.83dBm<br/>RL 12.0dBm                      10dB/                      872.3MHz</p> <p>START 30.0MHz                      STOP 1.0000GHz<br/>*RBW 1.0MHz                      *VBW 1.0MHz                      SWP 50.0ms</p> |          |       |           |
| Test Date                                                                                                                                                                                                                                                               | Data     | Chain | Test Eng. |
| 08/06/09                                                                                                                                                                                                                                                                | 5.31 GHz | B     | JC        |
| <p>*ATTEN 10dB                      MKR -52.17dBm<br/>RL 12.0dBm                      10dB/                      5.136GHz</p> <p>START 1.000GHz                      STOP 5.150GHz<br/>*RBW 1.0MHz                      *VBW 1.0MHz                      SWP 83.0ms</p> |          |       |           |



Conducted Out Of Band Emissions (Continued)

*802.11n Mode, 5GHz, 40MHz Wide*

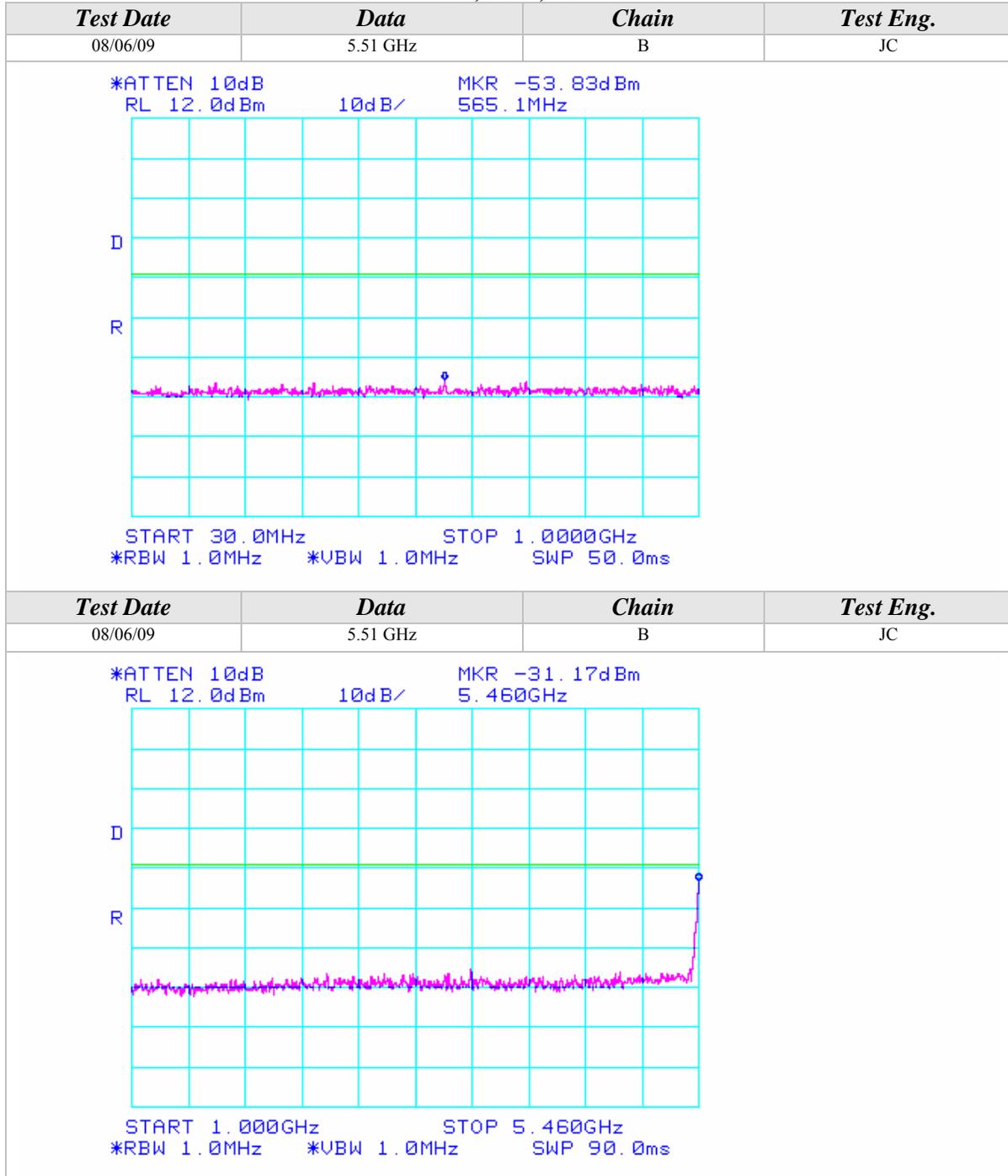






Conducted Out Of Band Emissions (Continued)

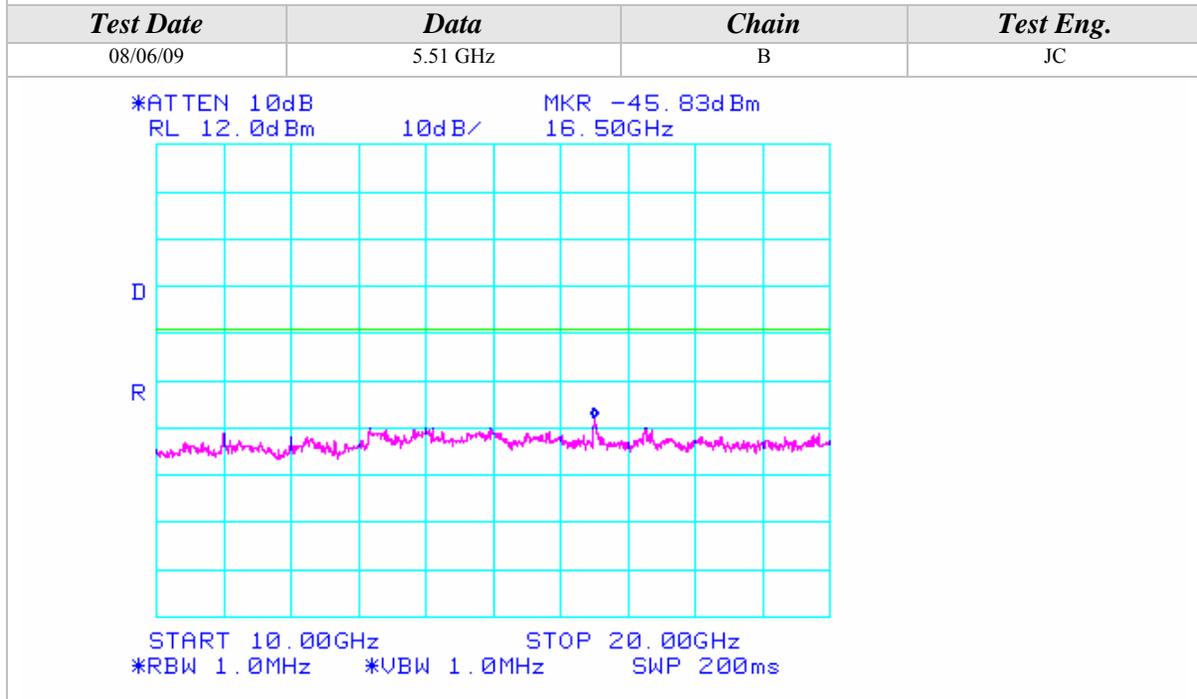
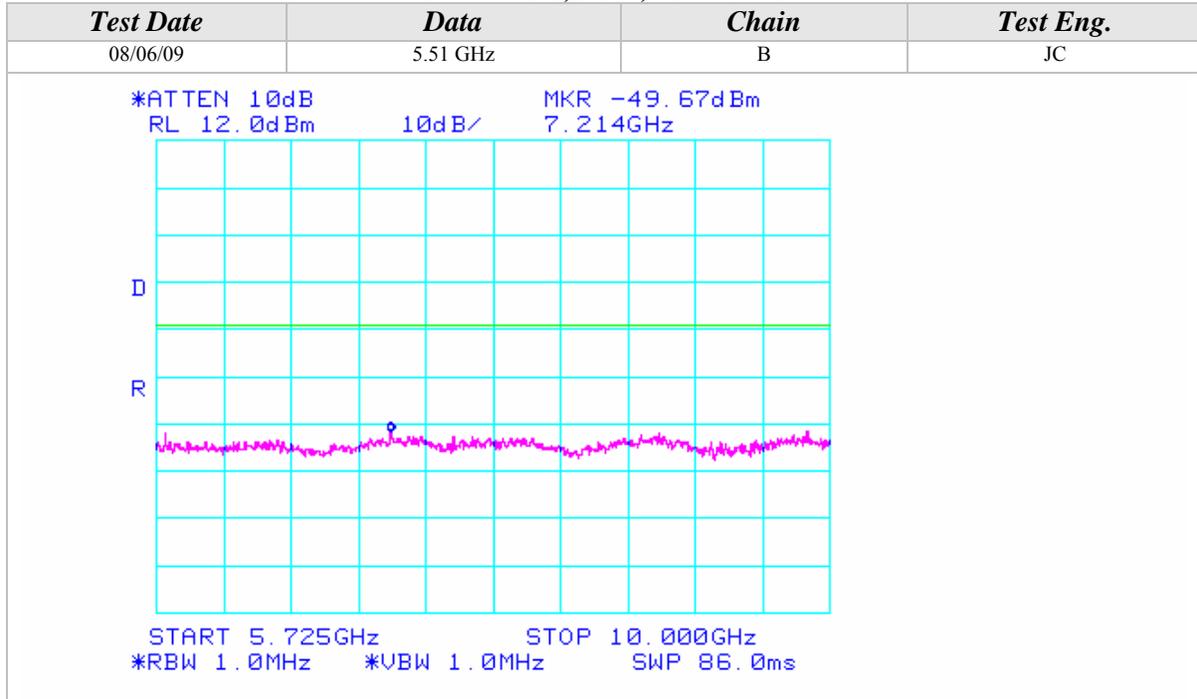
802.11n Mode, 5GHz, 40MHz Wide





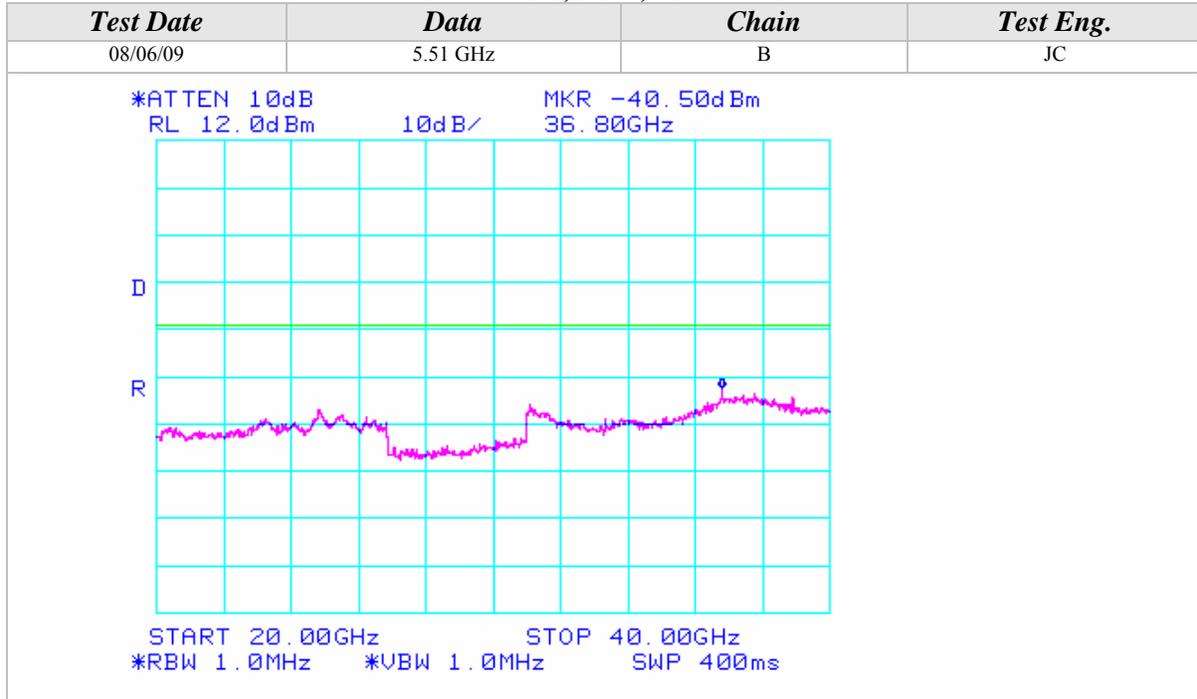
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide



Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

















## APPENDIX B

### *MODIFICATIONS AND RECOMMENDATIONS*

|            |      |
|------------|------|
| <b>1.0</b> | NONE |
|            |      |