



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 6300	633ANHMW

CONFIGURATION

IEEE 802.11a / 802.11b / 802.11g / 802.11n with a set of
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:

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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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

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
Operation in the 5.15-5.25 GHz Band			
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 = 20.92 MHz 5.20 GHz = 20.33 MHz 5.24 GHz = 20.75 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 = 16.52dBm (44.91mW) 5.20 GHz = 16.56dBm (45.33mW) 5.24 GHz = 16.61dBm (45.85mW)
15.407(a)(1)	The peak power spectral density shall not exceed 4dBm in any 1MHz band.	PASSED	5.18 GHz = 2.035dBm 5.20 GHz = 1.645dBm 5.24 GHz = 2.202dBm
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-090806F)
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
Operation in the 5.25-5.35 GHz Band			
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.26 GHz = 20.67 MHz 5.28 GHz = 20.58 MHz 5.32 GHz = 20.58 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	5.26 GHz = 16.47dBm (44.40mW) 5.28 GHz = 16.62dBm (45.96mW) 5.32 GHz = 16.45dBm (44.19mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.26 GHz = 1.874dBm 5.28 GHz = 1.923dBm 5.32 GHz = 1.641dBm
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-090806F)
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
General Requirements For All Bands			
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 = 5.81 dB 5.20 GHz = 5.62 dB 5.24 GHz = 5.55 dB 5.26 GHz = 5.74 dB 5.28 GHz = 5.43 dB 5.32 GHz = 5.23 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-090806F)



2.0 Summary Of Test Results (Continued)

802.11a Mode (5150-5350 MHz) Chain B

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
Operation in the 5.15-5.25 GHz Band			
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 = 20.50 MHz 5.20 GHz = 20.42 MHz 5.24 GHz = 20.50 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 = 16.37dBm (43.39mW) 5.20 GHz = 16.45dBm (44.19mW) 5.24 GHz = 16.58dBm (45.54mW)
15.407(a)(1)	The peak power spectral density shall not exceed 4dBm in any 1MHz band.	PASSED	5.18 GHz = 1.842dBm 5.20 GHz = 2.333dBm 5.24 GHz = 2.033dBm
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-090806F)
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
Operation in the 5.25-5.35 GHz Band			
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.26 GHz = 20.67 MHz 5.28 GHz = 20.75 MHz 5.32 GHz = 20.67 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 = 16.42dBm (43.89mW) 5.28 GHz = 16.49dBm (44.60mW) 5.32 GHz = 16.45dBm (44.19mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.26 GHz = 1.907dBm 5.28 GHz = 1.374dBm 5.32 GHz = 2.194dBm
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-090806F)
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
General Requirements For All Bands			
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 = 5.64 dB 5.20 GHz = 5.53 dB 5.24 GHz = 5.50 dB 5.26 GHz = 6.03 dB 5.28 GHz = 5.75 dB 5.32 GHz = 5.92 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-090806F)



2.0 Summary Of Test Results (Continued)

802.11a Mode (5150-5350 MHz) Chain C

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
Operation in the 5.15-5.25 GHz Band			
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 = 20.67 MHz 5.20 GHz = 20.75 MHz 5.24 GHz = 20.67 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 = 16.44dBm (44.09mW) 5.20 GHz = 16.42dBm (43.89mW) 5.24 GHz = 16.63dBm (46.06mW)
15.407(a)(1)	The peak power spectral density shall not exceed 4dBm in any 1MHz band.	PASSED	5.18 GHz = 1.977dBm 5.20 GHz = 1.920dBm 5.24 GHz = 1.520dBm
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-090806F)
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
Operation in the 5.25-5.35 GHz Band			
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.26 GHz = 20.75 MHz 5.28 GHz = 20.83 MHz 5.32 GHz = 20.75 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 = 16.56dBm (45.33mW) 5.28 GHz = 16.47dBm (44.40mW) 5.32 GHz = 16.40dBm (43.69mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.26 GHz = 2.096dBm 5.28 GHz = 1.983dBm 5.32 GHz = 1.864dBm
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-090806F)
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
General Requirements For All Bands			
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 = 5.80 dB 5.20 GHz = 5.79 dB 5.24 GHz = 5.94 dB 5.26 GHz = 5.65 dB 5.28 GHz = 5.45 dB 5.32 GHz = 5.74 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-090806F)



2.0 Summary Of Test Results (Continued)

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

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
Operation in the 5.15-5.25 GHz Band			
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 = 21.08 MHz 5.20 GHz = 21.17 MHz 5.24 GHz = 21.33 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 = 16.60dBm (45.75mW) 5.20 GHz = 16.55dBm (45.22mW) 5.24 GHz = 16.36dBm (43.29mW)
15.407(a)(1)	The peak power spectral density shall not exceed 4dBm in any 1MHz band.	PASSED	5.18 GHz = 2.130dBm 5.20 GHz = 1.928dBm 5.24 GHz = 1.896dBm
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-090806F)
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
Operation in the 5.25-5.35 GHz Band			
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.26 GHz = 21.42 MHz 5.28 GHz = 21.17 MHz 5.32 GHz = 21.33 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 = 16.53dBm (45.02mW) 5.28 GHz = 16.42dBm (43.89mW) 5.32 GHz = 16.61dBm (45.85mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.26 GHz = 1.935dBm 5.28 GHz = 2.460dBm 5.32 GHz = 2.507dBm
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-090806F)
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
General Requirements For All Bands			
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 = 5.62 dB 5.20 GHz = 5.72 dB 5.24 GHz = 5.59 dB 5.26 GHz = 5.66 dB 5.28 GHz = 5.75 dB 5.32 GHz = 5.43 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-090806F)



2.0 Summary Of Test Results (Continued)

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

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
Operation in the 5.15-5.25 GHz Band			
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 = 21.33 MHz 5.20 GHz = 21.25 MHz 5.24 GHz = 21.42 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	5.18 GHz = 16.57dBm (45.43mW) 5.20 GHz = 16.55dBm (45.22mW) 5.24 GHz = 16.43dBm (43.99mW)
15.407(a)(1)	The peak power spectral density shall not exceed 4dBm in any 1MHz band.	PASSED	5.18 GHz = 1.815dBm 5.20 GHz = 2.105dBm 5.24 GHz = 1.557dBm
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-090806F)
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
Operation in the 5.25-5.35 GHz Band			
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.26 GHz = 21.67 MHz 5.28 GHz = 21.58 MHz 5.32 GHz = 21.67 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 = 16.49dBm (44.60mW) 5.28 GHz = 16.41dBm (43.79mW) 5.32 GHz = 16.48dBm (44.50mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.26 GHz = 1.893dBm 5.28 GHz = 2.181dBm 5.32 GHz = 2.905dBm
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-090806F)
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
General Requirements For All Bands			
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 = 6.10 dB 5.20 GHz = 5.42 dB 5.24 GHz = 5.78 dB 5.26 GHz = 5.93 dB 5.28 GHz = 5.45 dB 5.32 GHz = 5.60 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-090806F)



2.0 Summary Of Test Results (Continued)

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

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
Operation in the 5.15-5.25 GHz Band			
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 = 21.42 MHz 5.20 GHz = 21.42 MHz 5.24 GHz = 21.42 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	5.18 GHz = 16.56dBm (45.33mW) 5.20 GHz = 16.58dBm (45.54mW) 5.24 GHz = 16.51dBm (44.81mW)
15.407(a)(1)	The peak power spectral density shall not exceed 4dBm in any 1MHz band.	PASSED	5.18 GHz = 2.072dBm 5.20 GHz = 1.918dBm 5.24 GHz = 2.454dBm
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-090806F)
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
Operation in the 5.25-5.35 GHz Band			
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.26 GHz = 21.17 MHz 5.28 GHz = 21.25 MHz 5.32 GHz = 21.67 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 = 16.49dBm (44.60mW) 5.28 GHz = 16.62dBm (45.96mW) 5.32 GHz = 16.46dBm (44.30mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.26 GHz = 2.415dBm 5.28 GHz = 2.448dBm 5.32 GHz = 2.776dBm
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-090806F)
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
General Requirements For All Bands			
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 = 5.38 dB 5.20 GHz = 5.95 dB 5.24 GHz = 5.53 dB 5.26 GHz = 6.03 dB 5.28 GHz = 5.45 dB 5.32 GHz = 5.74 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-090806F)



2.0 Summary Of Test Results (Continued)

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

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
Operation in the 5.15-5.25 GHz Band			
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 = 38.50 MHz 5.23 GHz = 38.33 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 = 16.65dBm (46.21mW) 5.23 GHz = 16.43dBm (43.93mW)
15.407(a)(1)	The peak power spectral density shall not exceed 4dBm in any 1MHz band.	PASSED	5.19 GHz = -0.274dBm 5.23 GHz = -0.128dBm
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-090806F)
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
Operation in the 5.25-5.35 GHz Band			
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.27 GHz = 38.33 MHz 5.31 GHz = 38.50 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	5.27 GHz = 16.56dBm (45.27mW) 5.31 GHz = 16.50dBm (44.65mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.27 GHz = -0.491dBm 5.31 GHz = -0.475dBm
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-090806F)
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
General Requirements For All Bands			
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 = 5.02 dB 5.23 GHz = 5.27 dB 5.27 GHz = 4.83 dB 5.31 GHz = 5.05 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-090806F)



2.0 Summary Of Test Results (Continued)

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

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
Operation in the 5.15-5.25 GHz Band			
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 = 38.50 MHz 5.23 GHz = 38.50 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	5.19 GHz = 16.65dBm (46.21mW) 5.23 GHz = 16.61dBm (45.79mW)
15.407(a)(1)	The peak power spectral density shall not exceed 4dBm in any 1MHz band.	PASSED	5.19 GHz = -0.153dBm 5.23 GHz = -0.336dBm
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-090806F)
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
Operation in the 5.25-5.35 GHz Band			
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.27 GHz = 38.67 MHz 5.31 GHz = 38.33 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 = 16.52dBm (44.85mW) 5.31 GHz = 16.49dBm (44.54mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.27 GHz = -0.341dBm 5.31 GHz = -0.804dBm
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-090806F)
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
General Requirements For All Bands			
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 = 5.16 dB 5.23 GHz = 5.42 dB 5.27 GHz = 5.84 dB 5.31 GHz = 5.18 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-090806F)



2.0 Summary Of Test Results (Continued)

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

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
Operation in the 5.15-5.25 GHz Band			
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 = 38.17 MHz 5.23 GHz = 38.00 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 = 16.50dBm (44.65mW) 5.23 GHz = 16.66dBm (46.32mW)
15.407(a)(1)	The peak power spectral density shall not exceed 4dBm in any 1MHz band.	PASSED	5.19 GHz = 0.033dBm 5.23 GHz = -0.077dBm
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-090806F)
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
Operation in the 5.25-5.35 GHz Band			
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.27 GHz = 38.33 MHz 5.31 GHz = 38.17 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 = 16.53dBm (44.95mW) 5.31 GHz = 16.65dBm (46.21mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.27 GHz = -0.309dBm 5.31 GHz = -0.725dBm
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-090806F)
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
General Requirements For All Bands			
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 = 4.75 dB 5.23 GHz = 5.26 dB 5.27 GHz = 5.47 dB 5.31 GHz = 5.15 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-090806F)



2.0 Summary Of Test Results (Continued)

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

FCC Part 15 Section	Description	Results	Comments
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.50 GHz = 23.00 MHz 5.60 GHz = 23.17 MHz 5.70 GHz = 23.67 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 = 16.49dBm (44.60mW) 5.60 GHz = 16.60dBm (45.75mW) 5.70 GHz = 16.57dBm (45.43mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.50 GHz = 2.512dBm 5.60 GHz = 2.852dBm 5.70 GHz = 2.625dBm
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-090806F)
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
General Requirements For All Bands			
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 = 5.72 dB 5.60 GHz = 5.50 dB 5.70 GHz = 5.54 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-090806F)



2.0 Summary Of Test Results (Continued)

802.11a Mode (5470-5725 MHz) Chain B

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.50 GHz = 20.75 MHz 5.60 GHz = 22.67 MHz 5.70 GHz = 23.50 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	5.50 GHz = 16.36dBm (43.29mW) 5.60 GHz = 16.48dBm (44.50mW) 5.70 GHz = 16.44dBm (44.09mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.50 GHz = 3.000dBm 5.60 GHz = 3.072dBm 5.70 GHz = 2.760dBm
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-090806F)
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
General Requirements For All Bands			
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 = 5.72 dB 5.60 GHz = 5.68 dB 5.70 GHz = 6.02 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-090806F)



2.0 Summary Of Test Results (Continued)

802.11a Mode (5470-5725 MHz) Chain C

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.50 GHz = 20.92 MHz 5.60 GHz = 22.50 MHz 5.70 GHz = 23.75 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	5.50 GHz = 16.42dBm (43.89mW) 5.60 GHz = 16.47dBm (44.40mW) 5.70 GHz = 16.56dBm (45.33mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.50 GHz = 2.532dBm 5.60 GHz = 2.783dBm 5.70 GHz = 2.478dBm
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-090806F)
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
General Requirements For All Bands			
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 = 5.75 dB 5.60 GHz = 5.18 dB 5.70 GHz = 5.70 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-090806F)



2.0 Summary Of Test Results (Continued)

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

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.50 GHz = 21.67 MHz 5.60 GHz = 22.92 MHz 5.70 GHz = 23.50 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	5.50 GHz = 16.53dBm (45.02mW) 5.60 GHz = 16.50dBm (44.71mW) 5.70 GHz = 16.59dBm (45.64mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.50 GHz = 3.051dBm 5.60 GHz = 2.604dBm 5.70 GHz = 2.856dBm
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-090806F)
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
General Requirements For All Bands			
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 = 5.67 dB 5.60 GHz = 5.98 dB 5.70 GHz = 5.27 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-090806F)



2.0 Summary Of Test Results (Continued)

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

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.50 GHz = 21.83 MHz 5.60 GHz = 21.25 MHz 5.70 GHz = 21.75 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	5.50 GHz = 16.55dBm (45.22mW) 5.60 GHz = 16.41dBm (43.79mW) 5.70 GHz = 16.47dBm (44.40mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.50 GHz = 2.694dBm 5.60 GHz = 3.053dBm 5.70 GHz = 2.494dBm
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-090806F)
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
General Requirements For All Bands			
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 = 5.58 dB 5.60 GHz = 5.63 dB 5.70 GHz = 5.94 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-090806F)



2.0 Summary Of Test Results (Continued)

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

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.50 GHz = 21.33 MHz 5.60 GHz = 22.33 MHz 5.70 GHz = 22.58 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	5.50 GHz = 16.55dBm (45.22mW) 5.60 GHz = 16.48dBm (44.50mW) 5.70 GHz = 16.63dBm (46.06mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.50 GHz = 2.730dBm 5.60 GHz = 2.924dBm 5.70 GHz = 2.481dBm
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-090806F)
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
General Requirements For All Bands			
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 = 5.67 dB 5.60 GHz = 5.31 dB 5.70 GHz = 6.09 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-090806F)



2.0 Summary Of Test Results (Continued)

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

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.51 GHz = 40.00 MHz 5.59 GHz = 42.67 MHz 5.67 GHz = 40.67 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 = 16.49dBm (44.54mW) 5.59 GHz = 16.58dBm (45.48mW) 5.67 GHz = 16.67dBm (46.43mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.51 GHz = -0.174dBm 5.59 GHz = -0.172dBm 5.67 GHz = -0.064dBm
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-090806F)
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
General Requirements For All Bands			
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 = 5.11 dB 5.59 GHz = 5.14 dB 5.67 GHz = 5.12 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-090806F)



2.0 Summary Of Test Results (Continued)

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

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.51 GHz = 41.67 MHz 5.59 GHz = 38.83 MHz 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 = 16.55dBm (45.16mW) 5.59 GHz = 16.60dBm (45.69mW) 5.67 GHz = 16.64dBm (46.11mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.51 GHz = 0.297dBm 5.59 GHz = 0.714dBm 5.67 GHz = -0.496dBm
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-090806F)
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
General Requirements For All Bands			
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 = 5.56 dB 5.59 GHz = 5.48 dB 5.67 GHz = 5.19 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-090806F)



2.0 Summary Of Test Results (Continued)

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

EMISSIONS STANDARD			
FCC Part 15 Section	Description	Results	Comments
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.51 GHz = 39.67 MHz 5.59 GHz = 38.50 MHz 5.67 GHz = 39.50 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 = 16.76dBm (47.40mW) 5.59 GHz = 16.57dBm (45.37mW) 5.67 GHz = 16.52dBm (44.85mW)
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.51 GHz = 0.341dBm 5.59 GHz = 0.299dBm 5.67 GHz = -0.399dBm
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-090806F)
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
General Requirements For All Bands			
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 = 5.23 dB 5.59 GHz = 4.84 dB 5.67 GHz = 5.15 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-090806F)

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 8/18/2009
Senior Test Engineer
Aegis Labs, Inc.

Report Approved By:

Rick Candelas 8/18/2009
Quality Assurance
Aegis Labs, Inc.



3.0 ADMINISTRATIVE DATA AND TEST DESCRIPTION

DEVICE TESTED:	ITE Type: Intel® Centrino® Ultimate-N 6300 Model Number(s): 633ANHMMW Serial Number: 0015005A17C0 FCC ID: E2K633ANH
DATE EUT RECEIVED:	June 18 th , 2009
TEST DATE(S):	June 22 nd – July 30 th , 2009
ORIGIN OF TEST SAMPLE(S):	Production
EQUIPMENT CLASS:	EUT tested as CLASS B device
RESPONSIBLE PARTY:	Intel Corporation 2111 NE 25 th Avenue Hillsboro, Oregon 97124
CLIENT CONTACT:	Mr. Steve Hackett
MANUFACTURER:	Intel Corporation
TEST LOCATION:	Aegis Labs, Inc. 32231 Trabuco Creek Road Trabuco Canyon, CA 92678 Open Area Test Site #1 & #2
ACCREDITATION CERTIFICATE(s):	A2LA Certificate Number: 1111.01, Valid through February 10, 2010
PURPOSE OF TEST:	To demonstrate compliance with the standards as described in Sections 1.0 & 2.0 of this report.
UNCERTAINTY BUDGET:	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.
STATEMENT OF CALIBRATION:	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

Equipment Under Test (EUT)	
Trade Name:	Intel® Centrino® Ultimate-N 6300
Model Number:	633ANHMW
Frequency Range:	802.11a = 5.15 – 5.35 GHz & 5.47 – 5.725 802.11n = 5.15 – 5.35 GHz & 5.47 – 5.725
Enclosure:	The EUT contains its own shield made of aluminum approximately 2.5cm wide by 2cm deep by 2mm high.
Transfer Rate:	6/36/54 Mbps for 802.11a mode Up to 450 Mbps for 802.11n mode
Antenna Type:	<u>Shanghai Universe Communication Electron Co., Ltd Antennas:</u> PIFA
Antenna Gain (See Note 2):	3.73dBi @ 5 GHz
Transmit Output Power:	Please see Appendix A (Data Sheets) for actual output power.
Power Supply:	3.3VDC from external source
Number of External Test Ports Exercised:	3 Antenna Ports (Chain A, B, & C)

The Intel® Centrino® Ultimate-N 6300 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, & C 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, then C) and then tested with all chains transmitting simultaneously (Chain ABC). 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

Equipment Under Test			
Manufacturer	Equipment Name	Model or Part Number	Serial Number
Intel Corporation	Intel® Centrino® Ultimate-N 6300	633ANHMW	0015005A17C0

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

HOST EQUIPMENT LIST			
Manufacturer	Equipment Name	Model or Part Number	Serial Number
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.



4.5 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

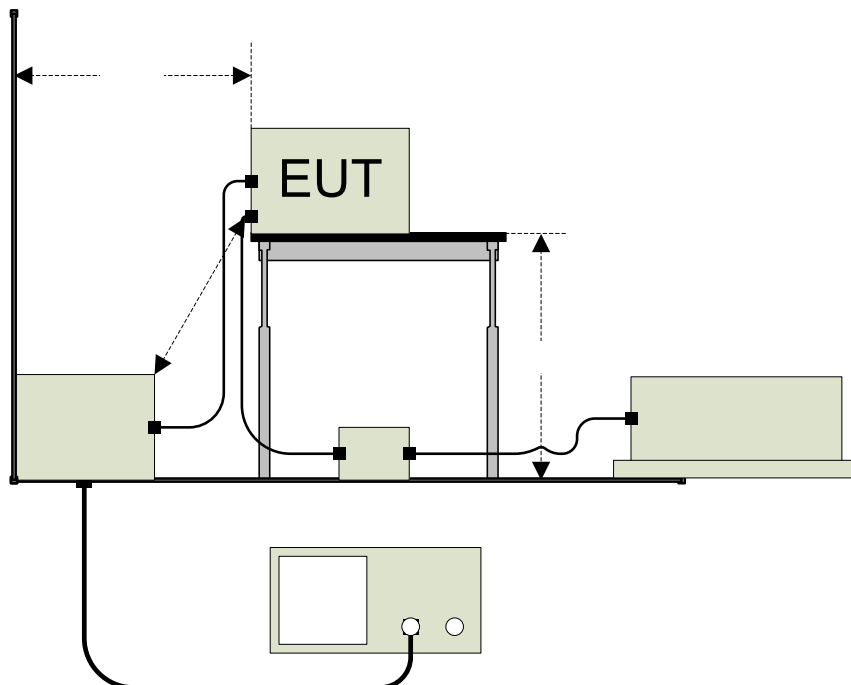
The following was the test configuration.

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

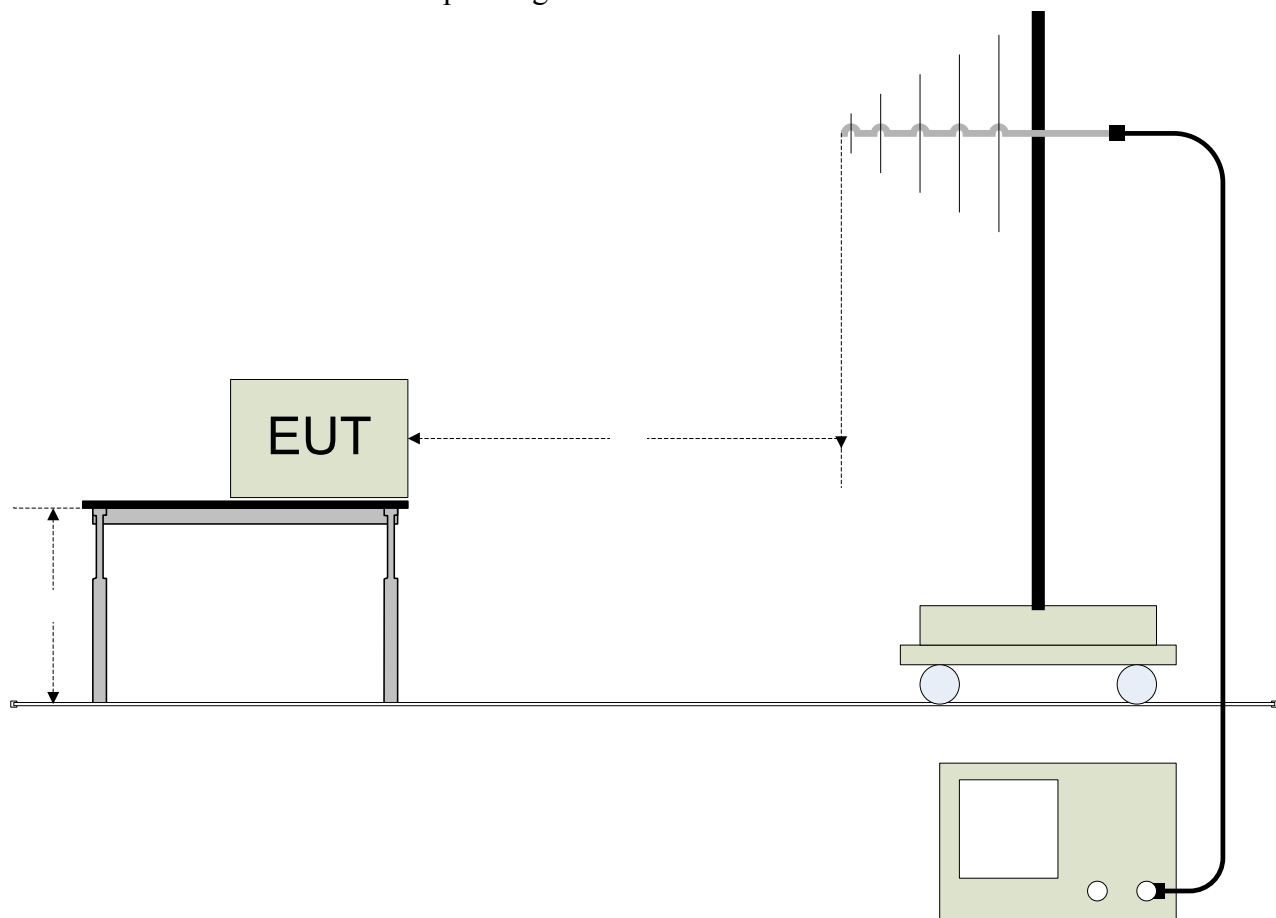
5.3 Radiated Emissions Test Setup

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**

CLIENT:	Intel Corporation	DATE:	06/25/09
EUT:	Intel® Centrino® Ultimate-N 6300	PROJECT NUMBER:	INTEL-090526
MODEL NUMBER:	633ANHMW	TEST ENGINEER:	JC
SERIAL NUMBER:	0015005A17C0	SITE #:	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot in 802.11a (5150-5350 MHz) mode.	TEMPERATURE:	27° C
		HUMIDITY:	44% RH
		TIME:	3:00 PM

Description:	Radiated RF Emissions (1 GHz – 18 GHz)
Results:	PASSED Horizontal and Vertical Antenna Polarizations Class B Limits
Note:	Radiated Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. • 120VAC / 60 Hz.

Unwanted Spurious Emissions Limits			
Frequency (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m) (Emissions in the restricted bands)	Field Strength (dBm/MHz) (Emissions outside the restricted bands)
Above 960	500	54.00 (Average) 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-090526-09

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
5180.00	63.00	100	45			3.77	34.28	101.05		
5180.00				53.83	A	3.77	34.28	91.88		
5200.00	62.67	100	0			3.78	34.30	100.75		
5200.00				53.33	A	3.78	34.30	91.41		
5240.00	63.33	100	45			3.80	34.34	101.47		
5240.00				54.17	A	3.80	34.34	92.31		
5260.00	64.00	100	45			3.80	34.36	102.16		
5260.00				55.67	A	3.80	34.36	93.83		
5280.00	63.50	100	0			3.81	34.38	101.69		
5280.00				54.33	A	3.81	34.38	92.52		
5320.00	62.67	100	45			3.83	34.42	100.92		
5320.00				53.50	A	3.83	34.42	91.75		

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
5180.00	63.83	100	45			3.77	34.48	102.08		
5180.00				54.50	A	3.77	34.48	92.75		
5200.00	63.50	100	45			3.78	34.50	101.78		
5200.00				54.17	A	3.78	34.50	92.45		
5240.00	63.17	100	0			3.80	34.54	101.51		
5240.00				53.33	A	3.80	34.54	91.67		
5260.00	64.33	100	45			3.80	34.56	102.69		
5260.00				54.83	A	3.80	34.56	93.19		
5280.00	64.83	100	0			3.81	34.58	103.22		
5280.00				55.50	A	3.81	34.58	93.89		
5320.00	65.67	100	315			3.83	34.62	104.12		
5320.00				55.67	A	3.83	34.62	94.12		

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-090526-09****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							46.72	74.00	-27.28	Ch. 36
5150.00							40.55	74.00	-33.45	
5150.00				A			32.05	54.00	-21.95	
5150.00				A			31.38	54.00	-22.62	
5350.00							50.42	74.00	-23.58	Ch. 64
5350.00							43.75	74.00	-30.25	
5350.00				A			34.08	54.00	-19.92	
5350.00				A			34.58	54.00	-19.42	

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							47.75	74.00	-26.25	Ch. 36
5150.00							41.58	74.00	-32.42	
5150.00				A			32.92	54.00	-21.08	
5150.00				A			32.25	54.00	-21.75	
5350.00							53.62	74.00	-20.38	Ch. 64
5350.00							46.95	74.00	-27.05	
5350.00				A			36.45	54.00	-17.55	
5350.00				A			36.95	54.00	-17.05	

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

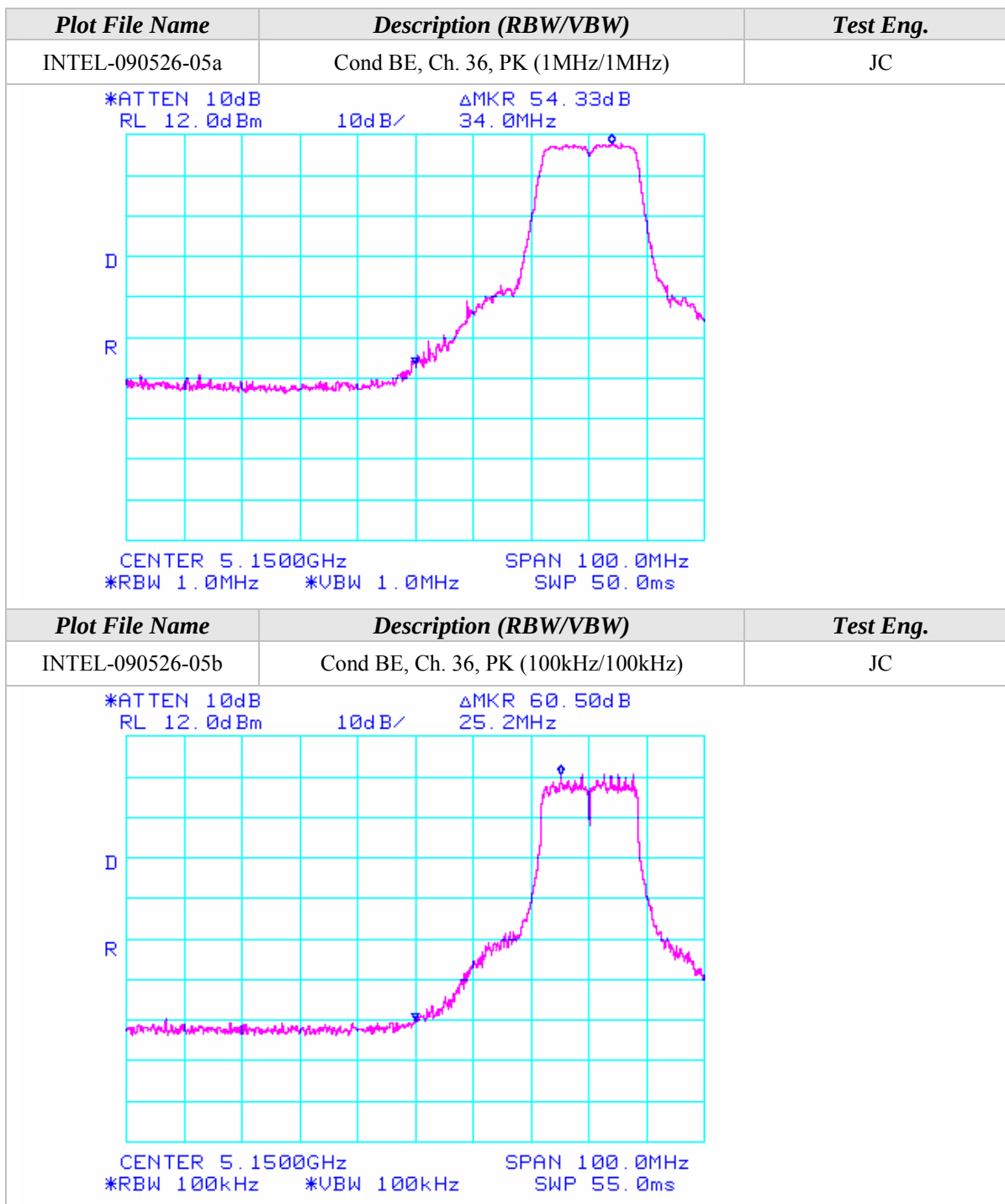
BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

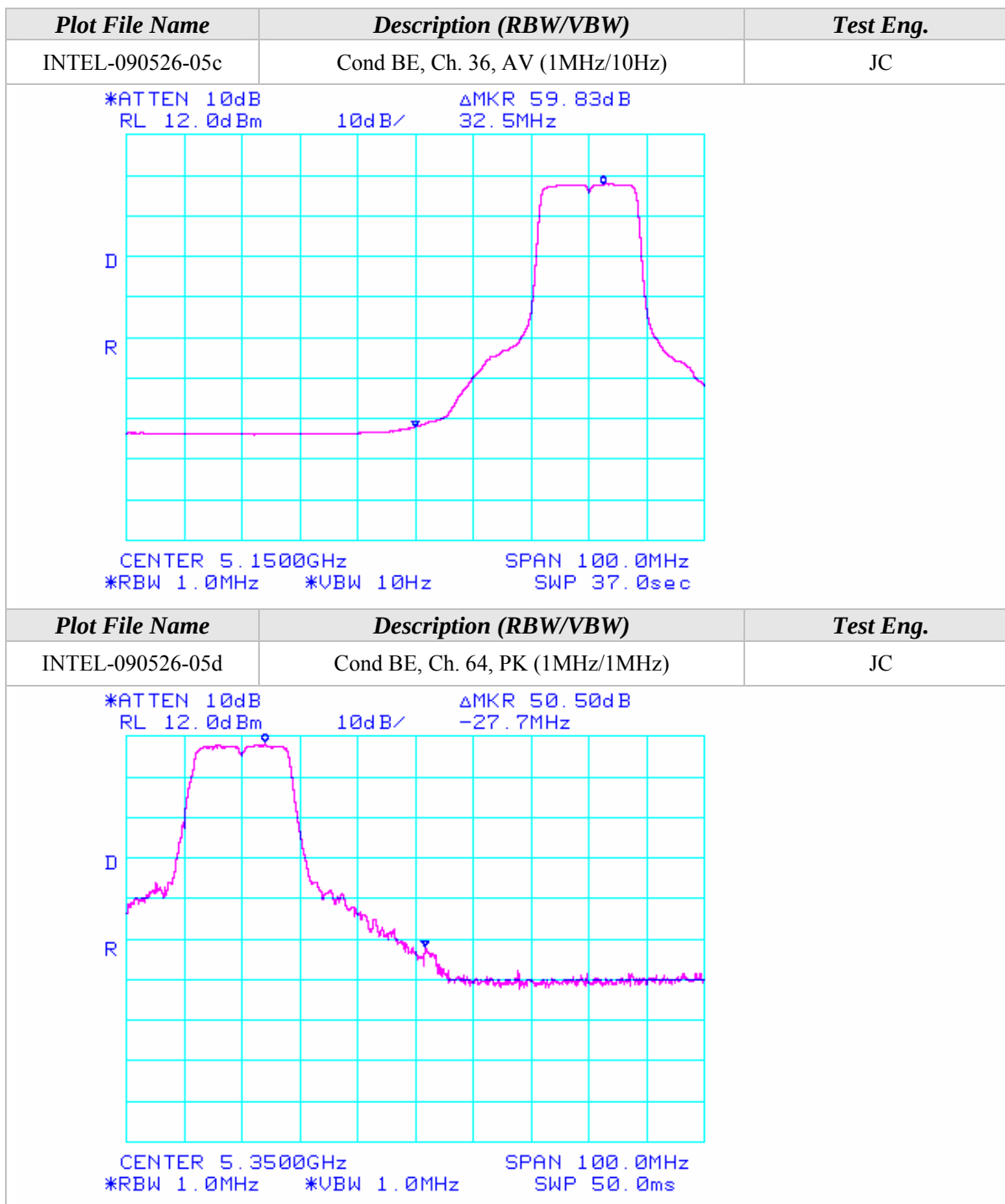


Band-Edge Plots (Continued)



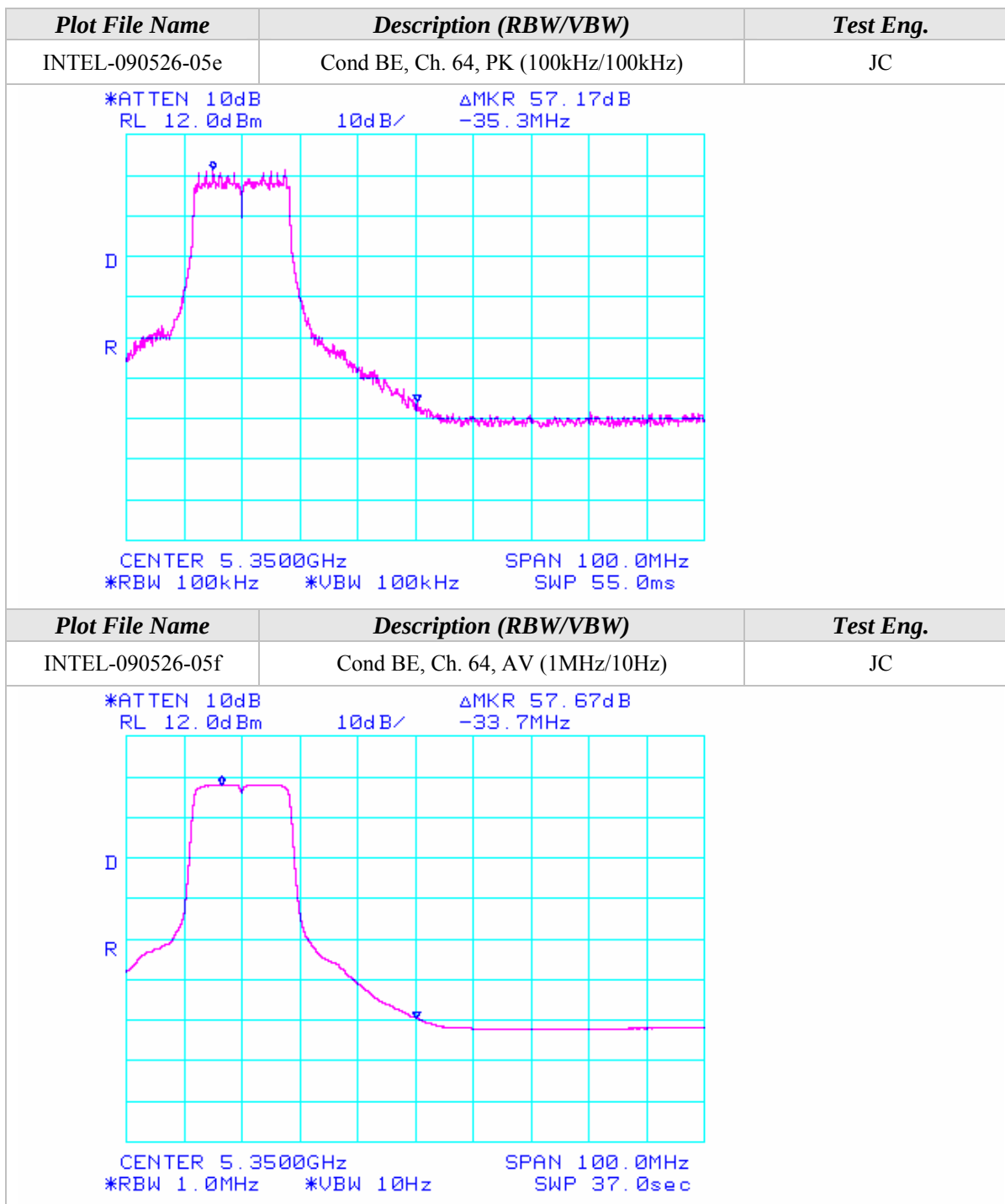


Band-Edge Plots (Continued)





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-090526-11

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
5180.00	64.67	100	315			3.77	34.28	102.72			Ch. 36
5180.00				55.17	A	3.77	34.28	93.22			
5200.00	66.00	100	315			3.78	34.30	104.08			Ch. 40
5200.00				56.33	A	3.78	34.30	94.41			
5240.00	65.33	100	0			3.80	34.34	103.47			Ch. 48
5240.00				55.83	A	3.80	34.34	93.97			
5260.00	64.83	100	315			3.80	34.36	102.99			Ch. 52
5260.00				55.50	A	3.80	34.36	93.66			
5280.00	65.17	100	315			3.81	34.38	103.36			Ch. 56
5280.00				55.50	A	3.81	34.38	93.69			
5320.00	65.67	100	315			3.83	34.42	103.92			Ch. 64
5320.00				55.83	A	3.83	34.42	94.08			

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
5180.00	64.50	100	315			3.77	34.48	102.75			Ch. 36
5180.00				55.33	A	3.77	34.48	93.58			
5200.00	65.67	100	315			3.78	34.50	103.95			Ch. 40
5200.00				56.17	A	3.78	34.50	94.45			
5240.00	64.17	100	315			3.80	34.54	102.51			Ch. 48
5240.00				54.83	A	3.80	34.54	93.17			
5260.00	66.00	100	315			3.80	34.56	104.36			Ch. 52
5260.00				56.83	A	3.80	34.56	95.19			
5280.00	65.83	100	0			3.81	34.58	104.22			Ch. 56
5280.00				56.83	A	3.81	34.58	95.22			
5320.00	65.33	100	315			3.83	34.62	103.78			Ch. 64
5320.00				56.00	A	3.83	34.62	94.45			

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-090526-11

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							59.22	74.00	-14.78	Ch. 36
5150.00							52.89	74.00	-21.11	
5150.00				A			42.38	54.00	-11.62	
5150.00				A			43.39	54.00	-10.61	
5350.00							52.59	74.00	-21.41	Ch. 64
5350.00							46.08	74.00	-27.92	
5350.00				A			37.42	54.00	-16.58	
5350.00				A			36.24	54.00	-17.76	

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							59.25	74.00	-14.75	Ch. 36
5150.00							52.92	74.00	-21.08	
5150.00				A			42.74	54.00	-11.26	
5150.00				A			43.75	54.00	-10.25	
5350.00							52.45	74.00	-21.55	Ch. 64
5350.00							45.94	74.00	-28.06	
5350.00				A			37.79	54.00	-16.21	
5350.00				A			36.61	54.00	-17.39	

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

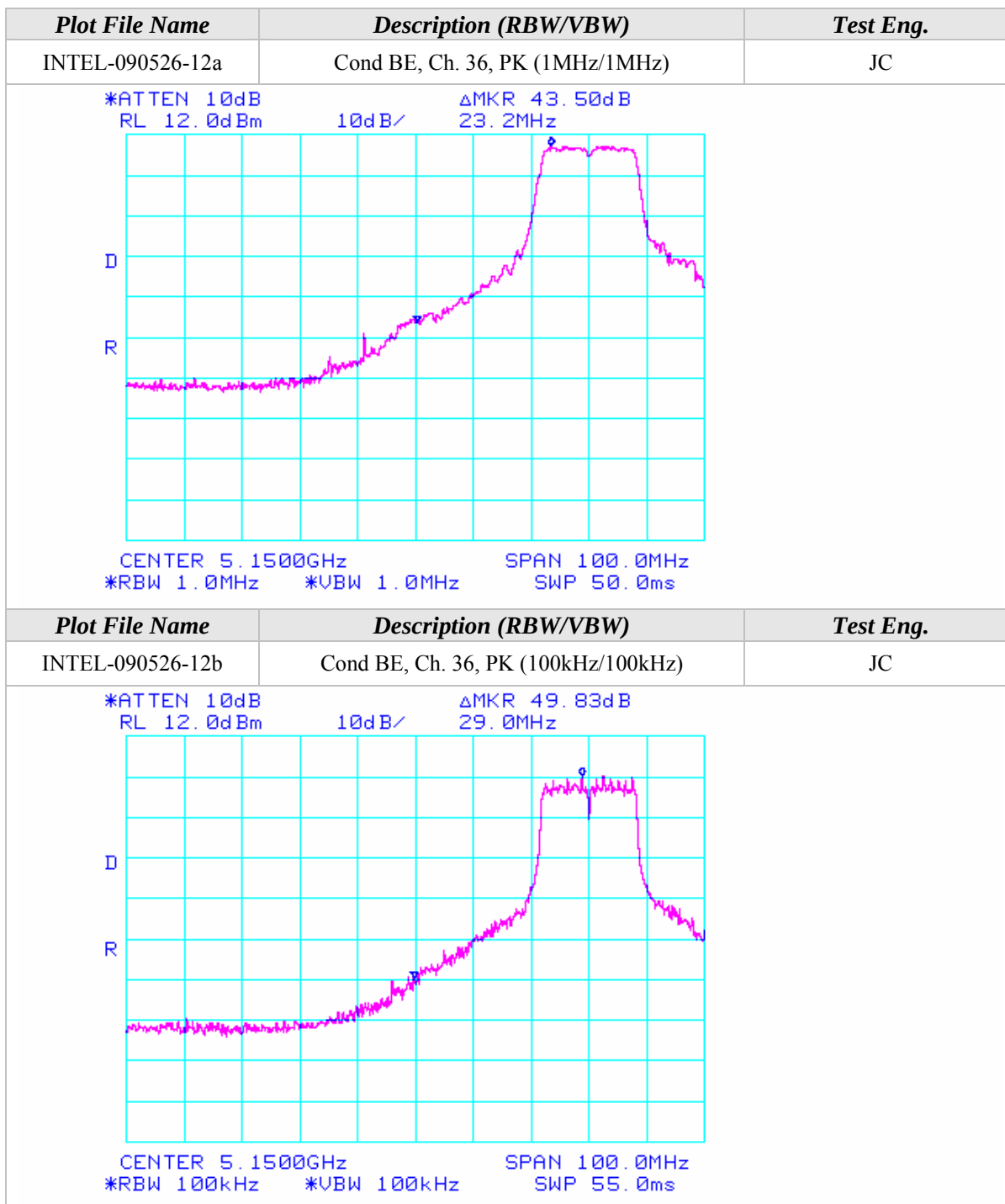
BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

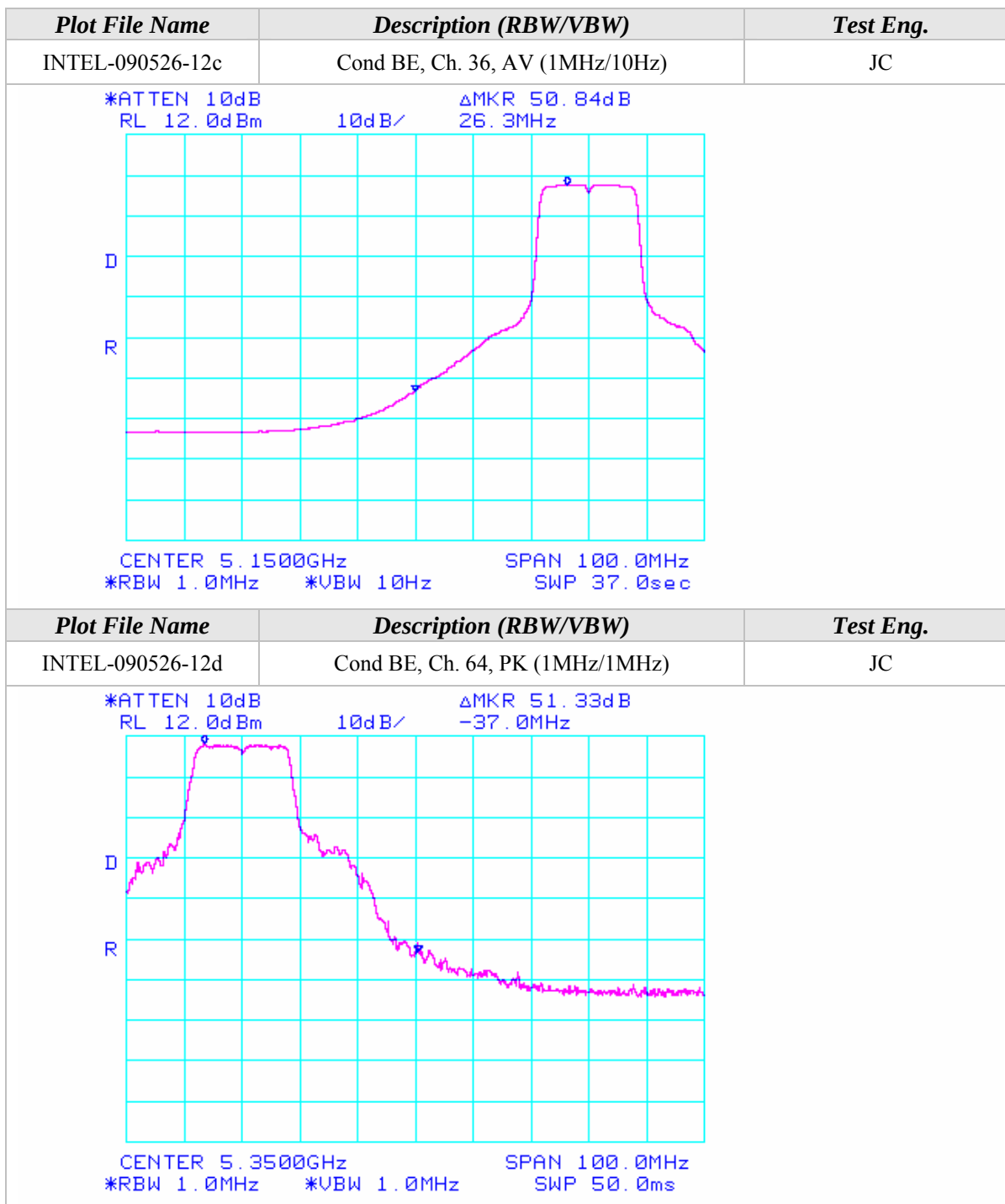


Band-Edge Plots (Continued)



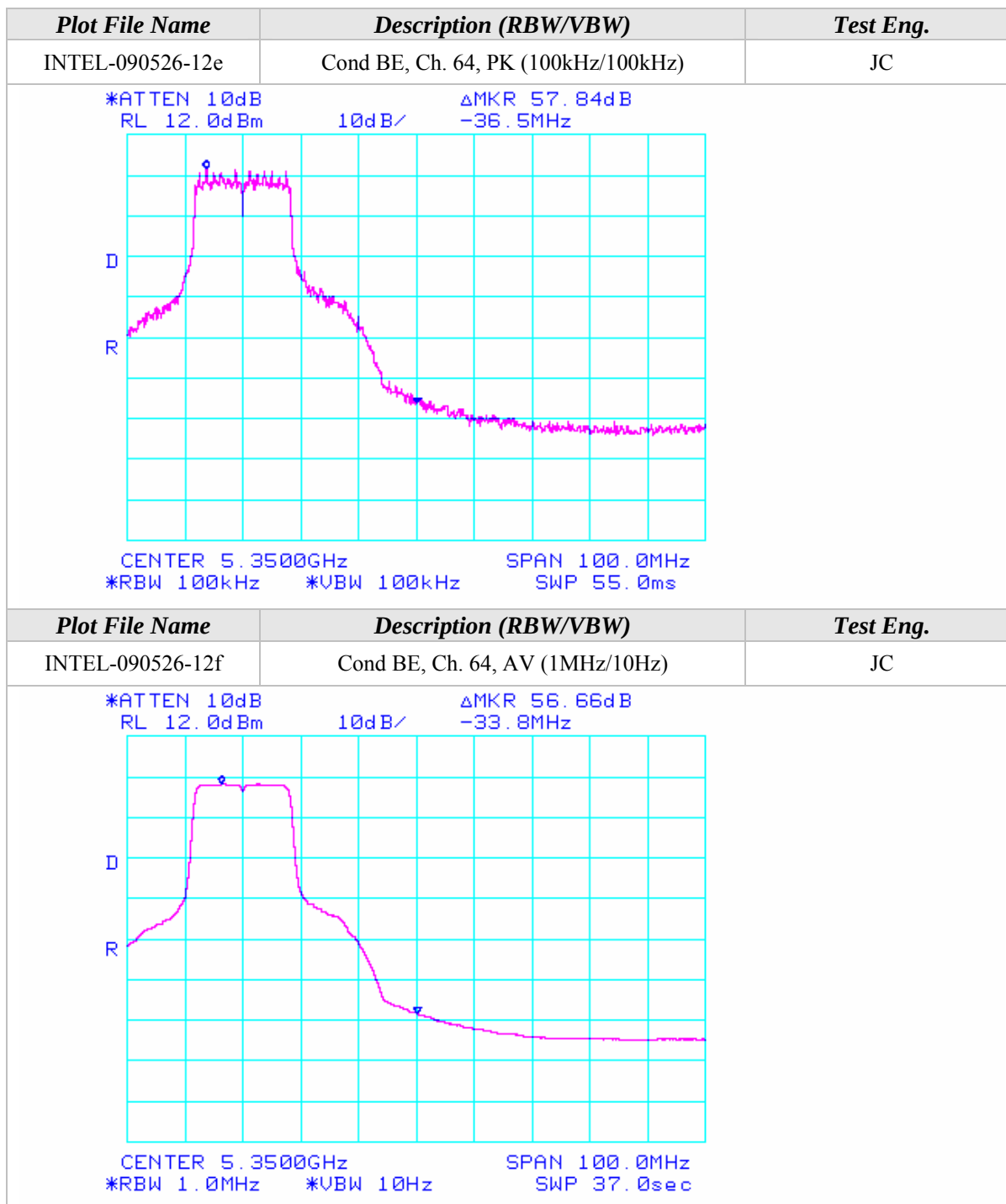


Band-Edge Plots (Continued)





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 C Antenna port with Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090526-13

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
5180.00	62.67	100	45			3.77	34.28	100.72			Ch. 36
5180.00				53.33	A	3.77	34.28	91.38			
5200.00	63.50	100	0			3.78	34.30	101.58			Ch. 40
5200.00				54.00	A	3.78	34.30	92.08			
5240.00	62.33	100	45			3.80	34.34	100.47			Ch. 48
5240.00				53.17	A	3.80	34.34	91.31			
5260.00	63.83	100	45			3.80	34.36	101.99			Ch. 52
5260.00				55.50	A	3.80	34.36	93.66			
5280.00	64.33	100	0			3.81	34.38	102.52			Ch. 56
5280.00				55.83	A	3.81	34.38	94.02			
5320.00	63.67	100	45			3.83	34.42	101.92			Ch. 64
5320.00				54.50	A	3.83	34.42	92.75			

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
5180.00	62.67	100	45			3.77	34.48	100.92			Ch. 36
5180.00				53.33	A	3.77	34.48	91.58			
5200.00	63.17	100	45			3.78	34.50	101.45			Ch. 40
5200.00				53.83	A	3.78	34.50	92.11			
5240.00	63.67	100	0			3.80	34.54	102.01			Ch. 48
5240.00				54.50	A	3.80	34.54	92.84			
5260.00	64.33	100	45			3.80	34.56	102.69			Ch. 52
5260.00				55.00	A	3.80	34.56	93.36			
5280.00	63.83	100	0			3.81	34.58	102.22			Ch. 56
5280.00				54.17	A	3.81	34.58	92.56			
5320.00	65.33	100	315			3.83	34.62	103.78			Ch. 64
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 C Antenna port with Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090526-13

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							54.72	74.00	-19.28	Ch. 36
5150.00							47.39	74.00	-26.61	
5150.00				A			37.55	54.00	-16.45	
5150.00				A			38.05	54.00	-15.95	
5350.00							49.92	74.00	-24.08	Ch. 64
5350.00							43.26	74.00	-30.74	
5350.00				A			34.59	54.00	-19.41	
5350.00				A			34.09	54.00	-19.91	

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							54.92	74.00	-19.08	Ch. 36
5150.00							47.59	74.00	-26.41	
5150.00				A			37.75	54.00	-16.25	
5150.00				A			38.25	54.00	-15.75	
5350.00							51.78	74.00	-22.22	Ch. 64
5350.00							45.12	74.00	-28.88	
5350.00				A			35.62	54.00	-18.38	
5350.00				A			35.12	54.00	-18.88	

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

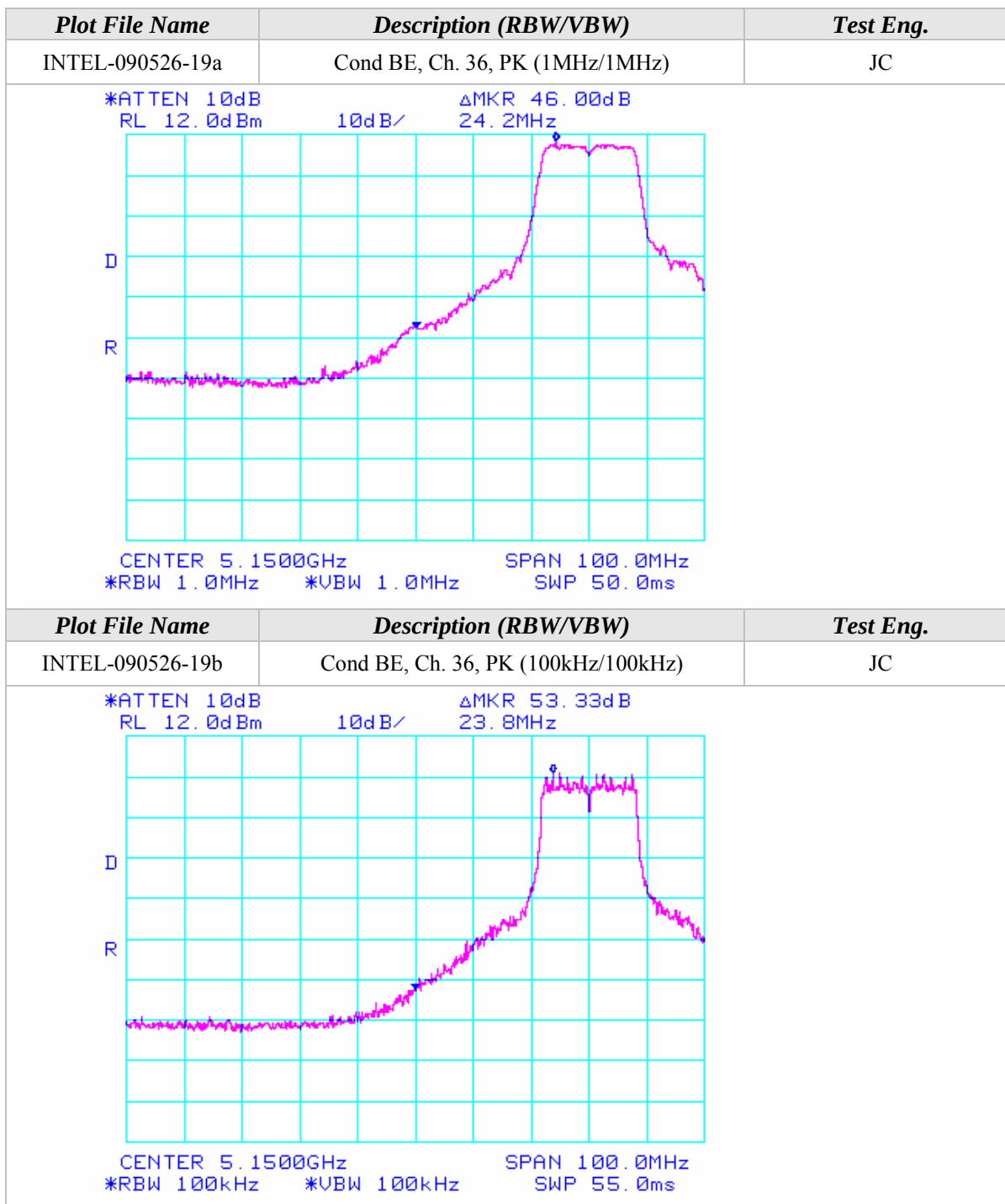
BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

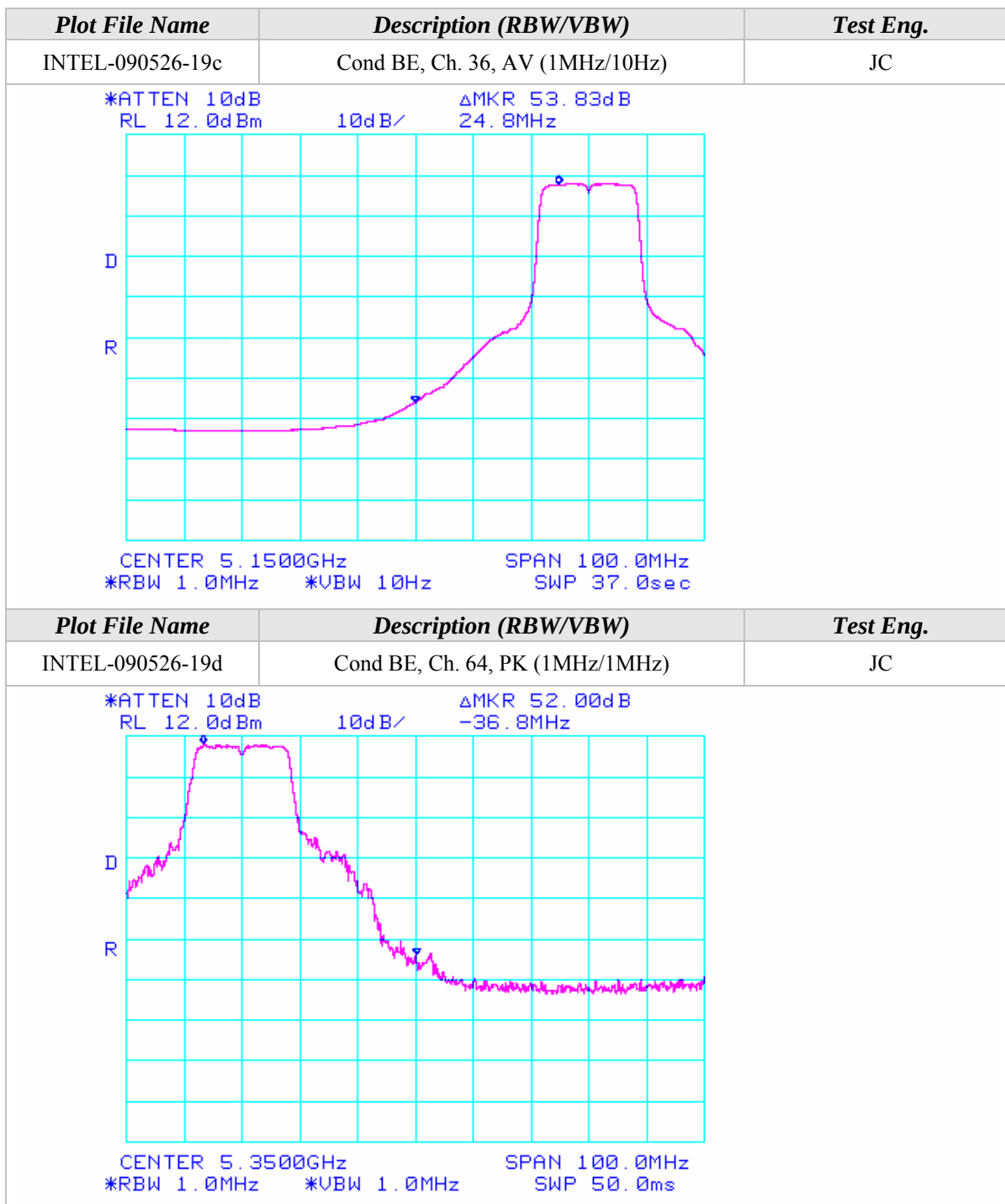


Band-Edge Plots (Continued)



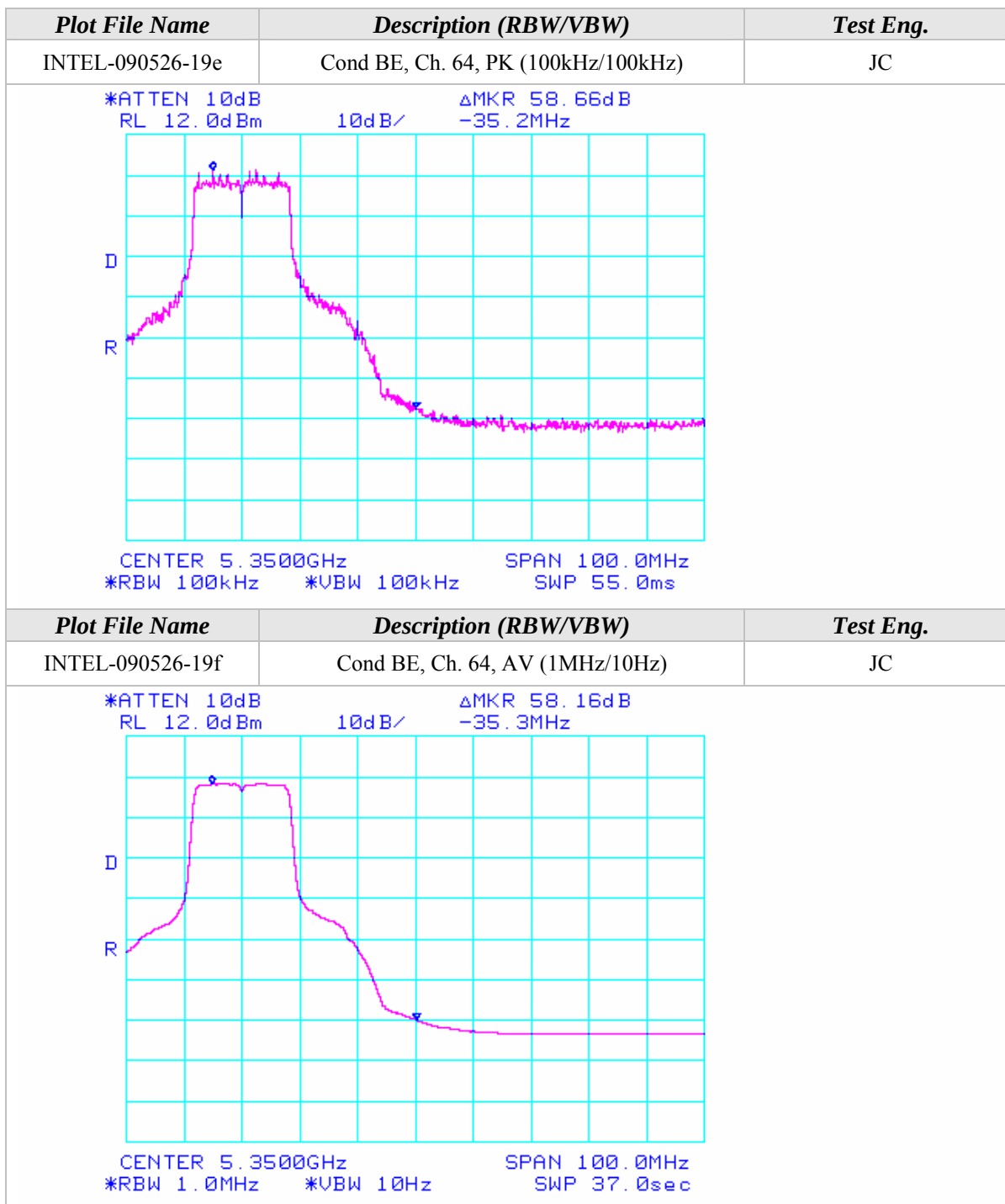


Band-Edge Plots (Continued)





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, & C Antenna ports with Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090526-17

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
3466.66	53.67	100	0			47.64	3.06	32.79	41.89	68.00	-26.11	Ch. 40/
6933.33	54.00	100	315			46.25	4.40	35.79	47.94	68.00	-20.06	C
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	C
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	C

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
3466.66	53.33	100	45			47.64	3.06	32.59	41.35	68.00	-26.65	Ch. 40/
6933.33	53.67	100	0			46.25	4.40	35.59	47.41	68.00	-20.59	C
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, & C Antenna ports with Shanghai Universe Antennas

Aegis Labs, Inc. File #: INTEL-090526-17

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	Ch. 56/A
3520.00	52.67	100	0		47.62	3.08	32.82	40.96	68.00	-27.04	Ch. 56/B
3520.00	54.00	100	0		47.62	3.08	32.82	42.29	68.00	-25.71	Ch. 56/C
3506.66	52.83	100	0		47.62	3.07	32.81	41.09	68.00	-26.91	Ch. 52/
7013.33	51.17	100	0		46.13	4.43	35.80	45.28	68.00	-22.72	C
3546.66	53.50	100	0		47.62	3.12	32.86	41.85	68.00	-26.15	Ch. 64/
7093.33	52.50	100	45		46.05	4.46	35.78	46.70	68.00	-21.30	C

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	Ch. 56/
7040.00	51.83	100	0		46.10	4.44	35.61	45.78	68.00	-22.22	A
3520.00	52.67	100	0		47.62	3.08	32.63	40.77	68.00	-27.23	Ch. 56/
7040.00	52.50	100	0		46.10	4.44	35.61	46.45	68.00	-21.55	B
3520.00	53.00	100	0		47.62	3.08	32.63	41.10	68.00	-26.90	Ch. 56/
7040.00	51.83	100	0		46.10	4.44	35.61	45.78	68.00	-22.22	C
3506.66	53.50	100	0		47.62	3.07	32.61	41.56	68.00	-26.44	Ch. 52/
7013.33	52.67	100	0		46.13	4.43	35.60	46.58	68.00	-21.42	A
3546.66	53.33	100	0		47.62	3.12	32.67	41.50	68.00	-26.50	Ch. 64/
7093.33	52.00	100	0		46.05	4.46	35.62	46.03	68.00	-21.97	A

**RADIATED EMISSIONS TEST RESULTS**

CLIENT:	Intel Corporation	DATE:	06/25/09
EUT:	Intel® Centrino® Ultimate-N 6300	PROJECT NUMBER:	INTEL-090526
MODEL NUMBER:	633ANHMW	TEST ENGINEER:	JC
SERIAL NUMBER:	0015005A17C0	SITE #:	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot in 802.11n (5150-5350 MHz) mode 20MHz Wide.	TEMPERATURE:	27° C
		HUMIDITY:	44% RH
		TIME:	3:00 PM

Description:	Radiated RF Emissions (1 GHz – 18 GHz)
Results:	PASSED Horizontal and Vertical Antenna Polarizations Class B Limits
Note:	Radiated Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. • 120VAC / 60 Hz.

Unwanted Spurious Emissions Limits			
Frequency (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m) (Emissions in the restricted bands)	Field Strength (dBm/MHz) (Emissions outside the restricted bands)
Above 960	500	54.00 (Average) 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-090526-09****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
5180.00	62.83	100	45			3.77	34.28	100.88			Ch. 36
5180.00				53.00	A	3.77	34.28	91.05			
5200.00	63.67	100	45			3.78	34.30	101.75			Ch. 40
5200.00				54.17	A	3.78	34.30	92.25			
5240.00	63.00	100	0			3.80	34.34	101.14			Ch. 48
5240.00				53.83	A	3.80	34.34	91.97			
5260.00	64.33	100	45			3.80	34.36	102.49			Ch. 52
5260.00				55.00	A	3.80	34.36	93.16			
5280.00	63.83	100	0			3.81	34.38	102.02			Ch. 56
5280.00				54.50	A	3.81	34.38	92.69			
5320.00	63.33	100	45			3.83	34.42	101.58			Ch. 64
5320.00				53.67	A	3.83	34.42	91.92			

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
5180.00	63.33	100	270			3.77	34.48	101.58			Ch. 36
5180.00				53.50	A	3.77	34.48	91.75			
5200.00	64.50	100	315			3.78	34.50	102.78			Ch. 40
5200.00				55.00	A	3.78	34.50	93.28			
5240.00	64.17	100	315			3.80	34.54	102.51			Ch. 48
5240.00				54.67	A	3.80	34.54	93.01			
5260.00	65.67	100	0			3.80	34.56	104.03			Ch. 52
5260.00				55.17	A	3.80	34.56	93.53			
5280.00	65.83	100	315			3.81	34.58	104.22			Ch. 56
5280.00				55.67	A	3.81	34.58	94.06			
5320.00	65.17	100	315			3.83	34.62	103.62			Ch. 64
5320.00				54.83	A	3.83	34.62	93.28			

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-090526-09****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							48.38	74.00	-25.62	Ch. 36
5150.00							41.55	74.00	-32.45	
5150.00				A			32.05	54.00	-21.95	
5150.00				A			31.72	54.00	-22.28	
5350.00							52.91	74.00	-21.09	Ch. 64
5350.00							43.75	74.00	-30.25	
5350.00				A			34.75	54.00	-19.25	
5350.00				A			34.09	54.00	-19.91	

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							49.08	74.00	-24.92	Ch. 36
5150.00							42.25	74.00	-31.75	
5150.00				A			32.75	54.00	-21.25	
5150.00				A			32.42	54.00	-21.58	
5350.00							54.95	74.00	-19.05	Ch. 64
5350.00							45.79	74.00	-28.21	
5350.00				A			36.11	54.00	-17.89	
5350.00				A			35.45	54.00	-18.55	

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

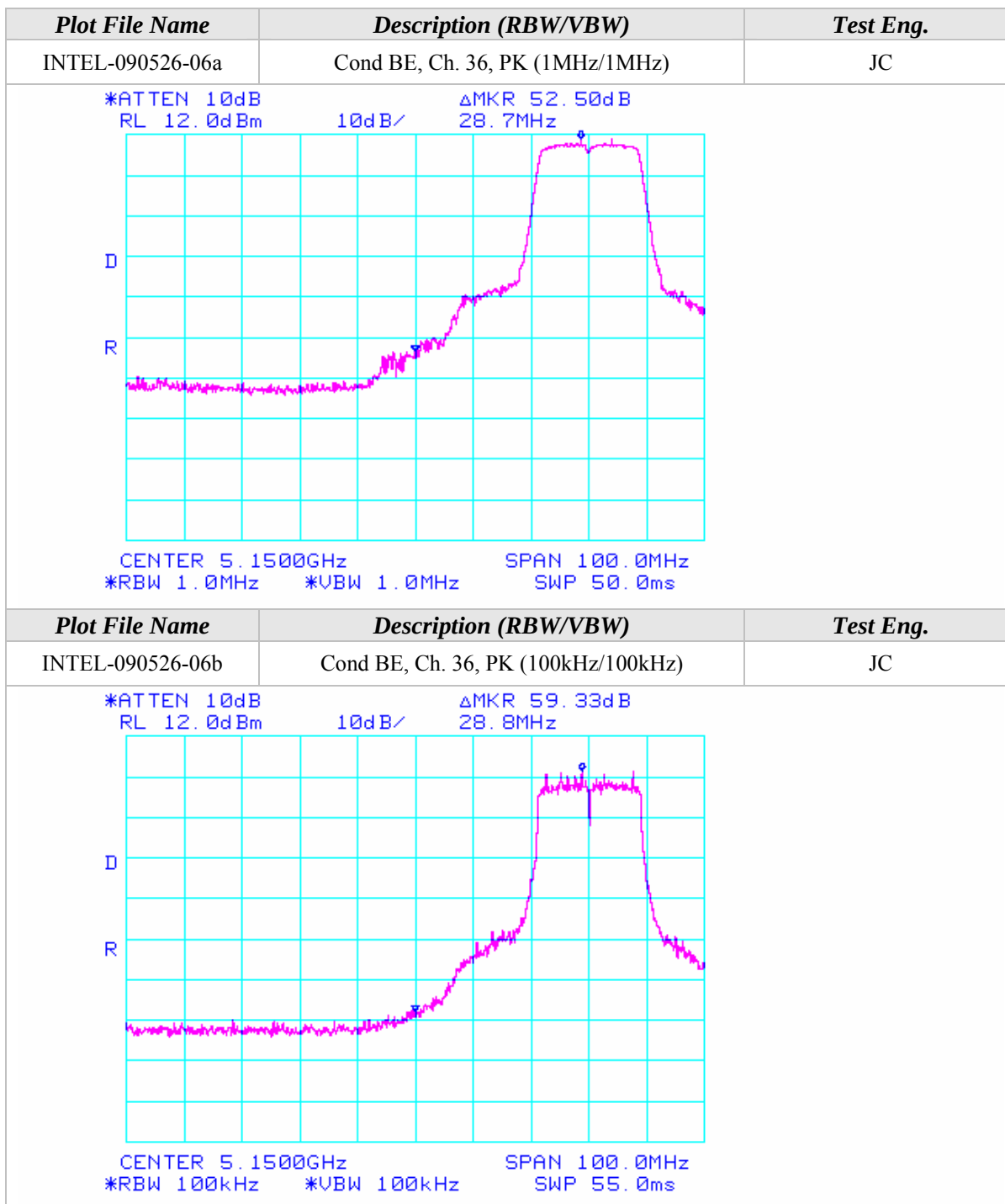
BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

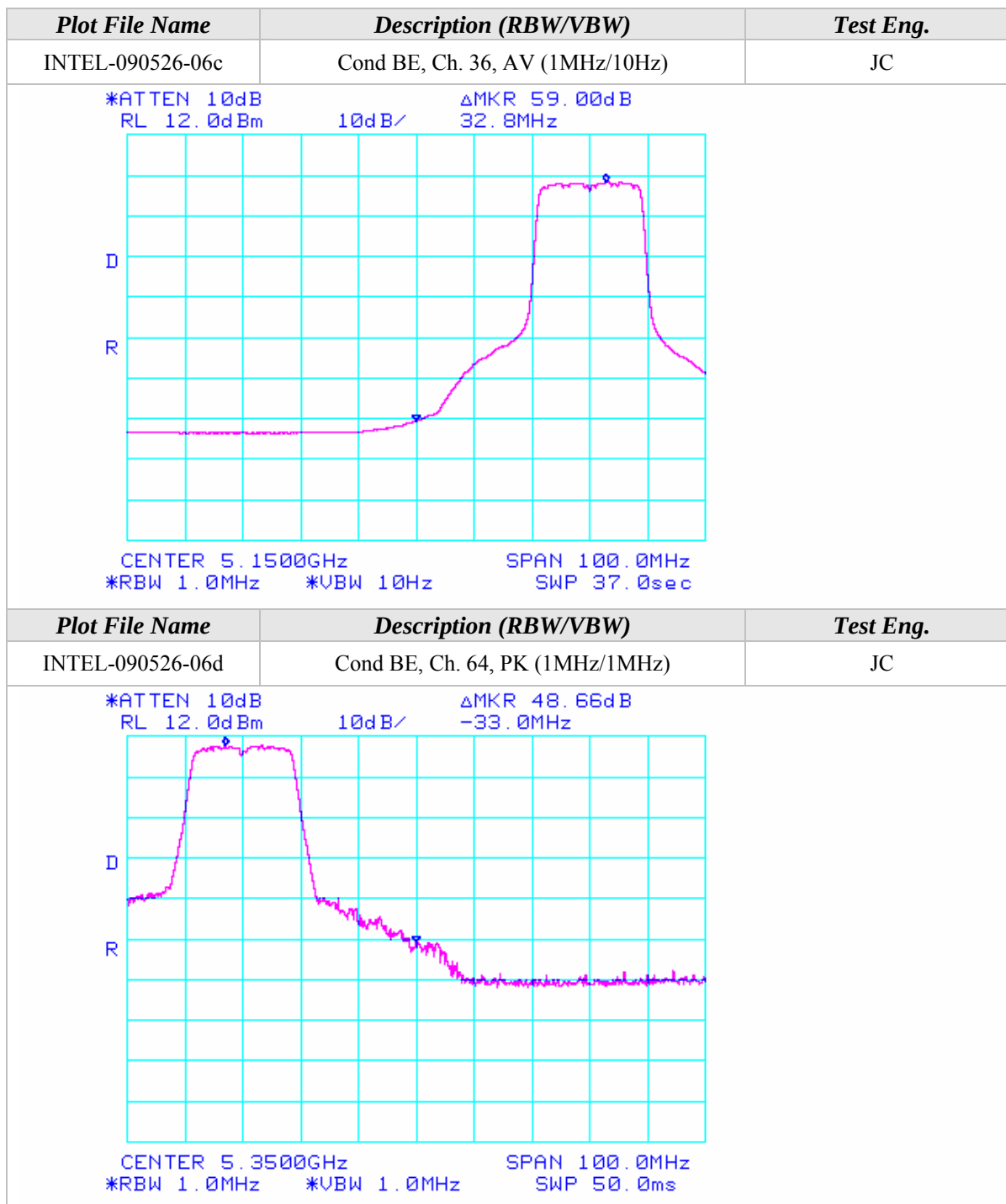


Band-Edge Plots (Continued)



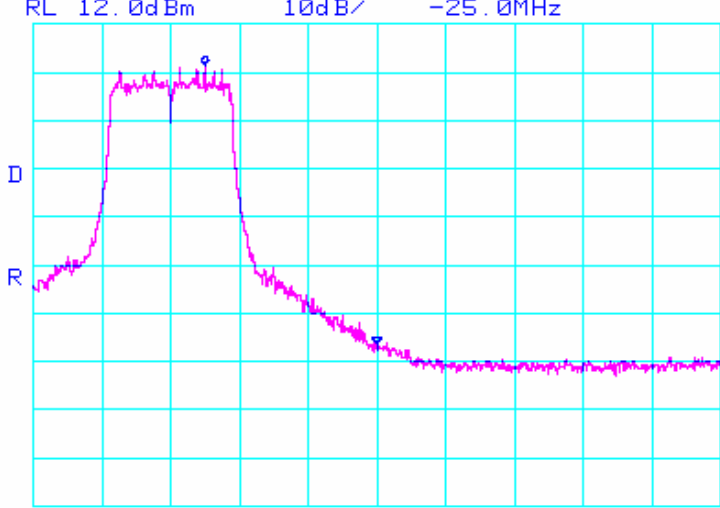
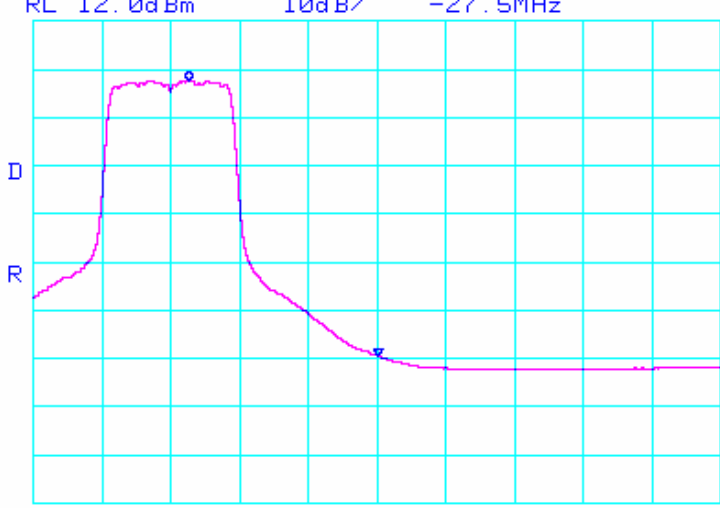


Band-Edge Plots (Continued)





Band-Edge Plots (Continued)

Plot File Name	Description (RBW/VBW)	Test Eng.
INTEL-090526-06e	Cond BE, Ch. 64, PK (100kHz/100kHz)	JC
*ATTEN 10dB RL 12.0dBm 10dB/ ΔMKR 57.83dB -25.0MHz  CENTER 5.3500GHz SPAN 100.0MHz *RBW 100kHz *VBW 100kHz SWP 55.0ms		
Plot File Name	Description (RBW/VBW)	Test Eng.
INTEL-090526-06f	Cond BE, Ch. 64, AV (1MHz/10Hz)	JC
*ATTEN 10dB RL 12.0dBm 10dB/ ΔMKR 57.17dB -27.5MHz  CENTER 5.3500GHz SPAN 100.0MHz *RBW 1.0MHz *VBW 10Hz SWP 37.0sec		



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-090526-11

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
5180.00	65.50	100	315			3.77	34.28	103.55		
5180.00				55.83	A	3.77	34.28	93.88		
5200.00	66.33	100	315			3.78	34.30	104.41		
5200.00				56.67	A	3.78	34.30	94.75		
5240.00	65.83	100	0			3.80	34.34	103.97		
5240.00				56.00	A	3.80	34.34	94.14		
5260.00	64.50	100	315			3.80	34.36	102.66		
5260.00				55.17	A	3.80	34.36	93.33		
5280.00	63.67	100	315			3.81	34.38	101.86		
5280.00				54.50	A	3.81	34.38	92.69		

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
5180.00	65.00	100	315			3.77	34.48	103.25		
5180.00				55.50	A	3.77	34.48	93.75		
5200.00	66.17	100	315			3.78	34.50	104.45		
5200.00				56.33	A	3.78	34.50	94.61		
5240.00	64.83	100	0			3.80	34.54	103.17		
5240.00				55.17	A	3.80	34.54	93.51		
5260.00	65.67	100	315			3.80	34.56	104.03		
5260.00				56.00	A	3.80	34.56	94.36		
5280.00	64.50	100	315			3.81	34.58	102.89		
5280.00				55.33	A	3.81	34.58	93.72		

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-090526-11****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							61.55	74.00	-12.45	Ch. 36
5150.00							55.72	74.00	-18.28	
5150.00				A			45.05	54.00	-8.95	
5150.00				A			46.05	54.00	-7.95	
5350.00							52.42	74.00	-21.58	Ch. 64
5350.00							45.42	74.00	-28.58	
5350.00				A			36.09	54.00	-17.91	
5350.00				A			35.76	54.00	-18.24	

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							61.25	74.00	-12.75	Ch. 36
5150.00							55.42	74.00	-18.58	
5150.00				A			44.92	54.00	-9.08	
5150.00				A			45.92	54.00	-8.08	
5350.00							52.96	74.00	-21.04	Ch. 64
5350.00							45.96	74.00	-28.04	
5350.00				A			36.62	54.00	-17.38	
5350.00				A			36.29	54.00	-17.71	

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

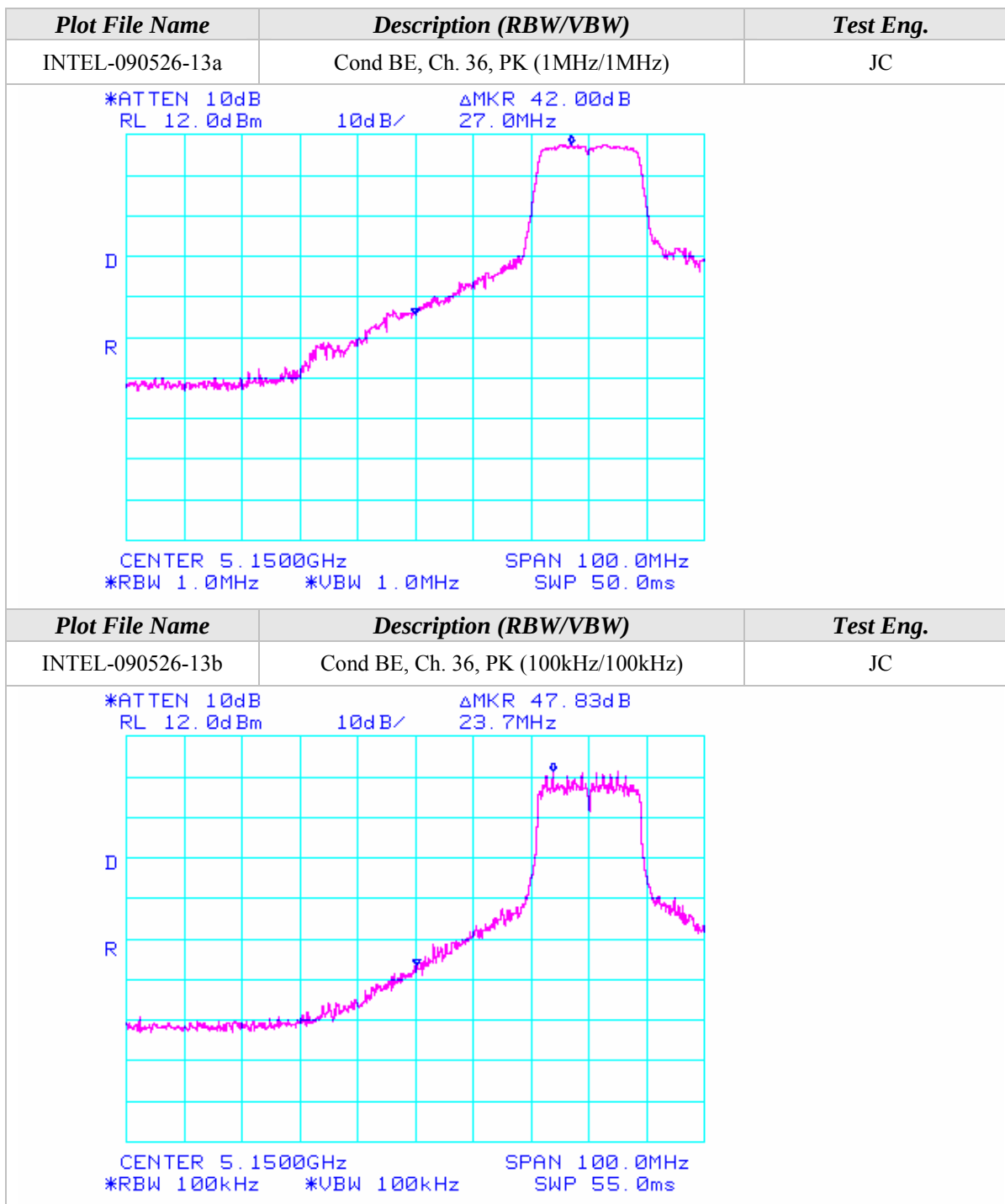
BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

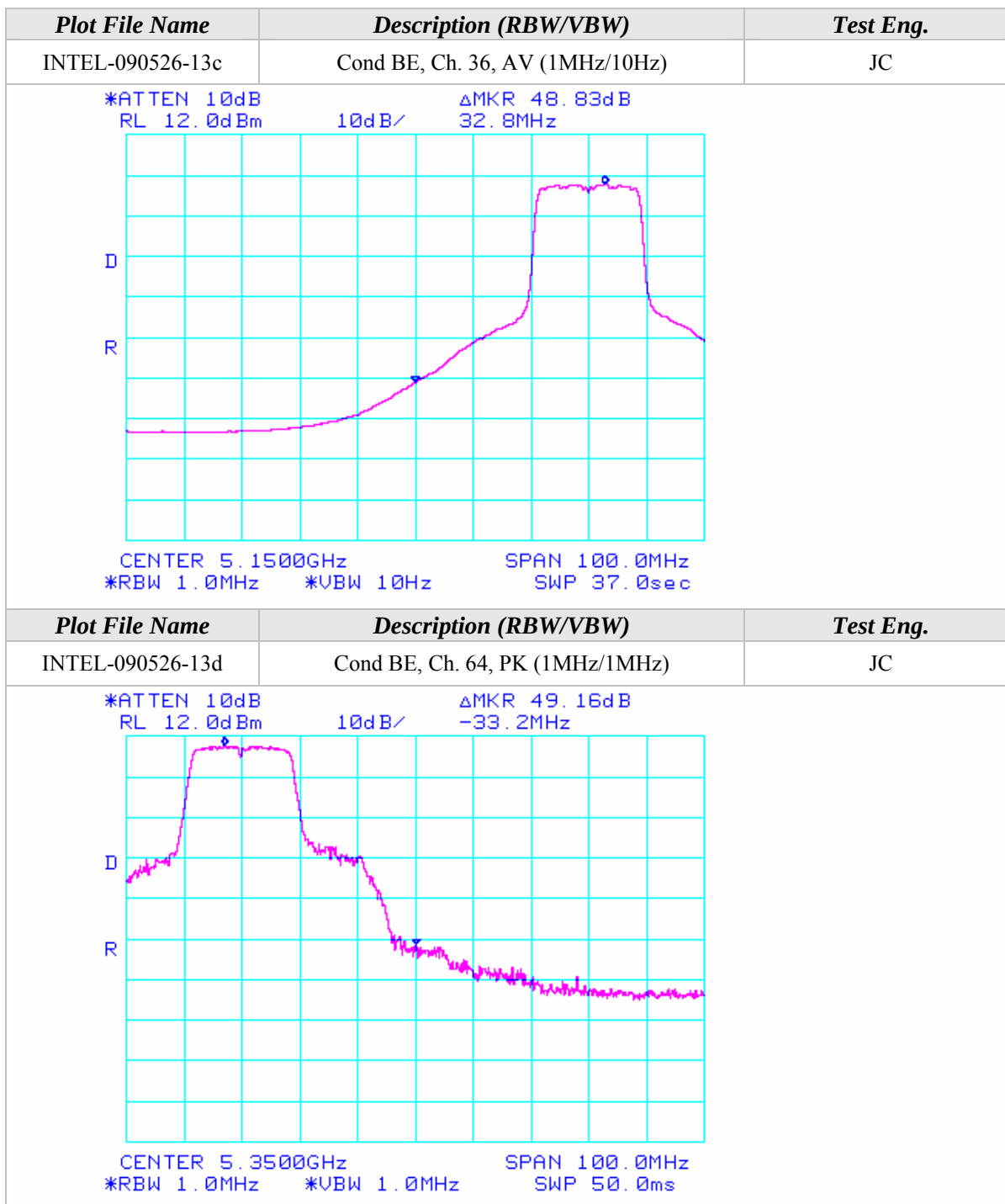


Band-Edge Plots (Continued)



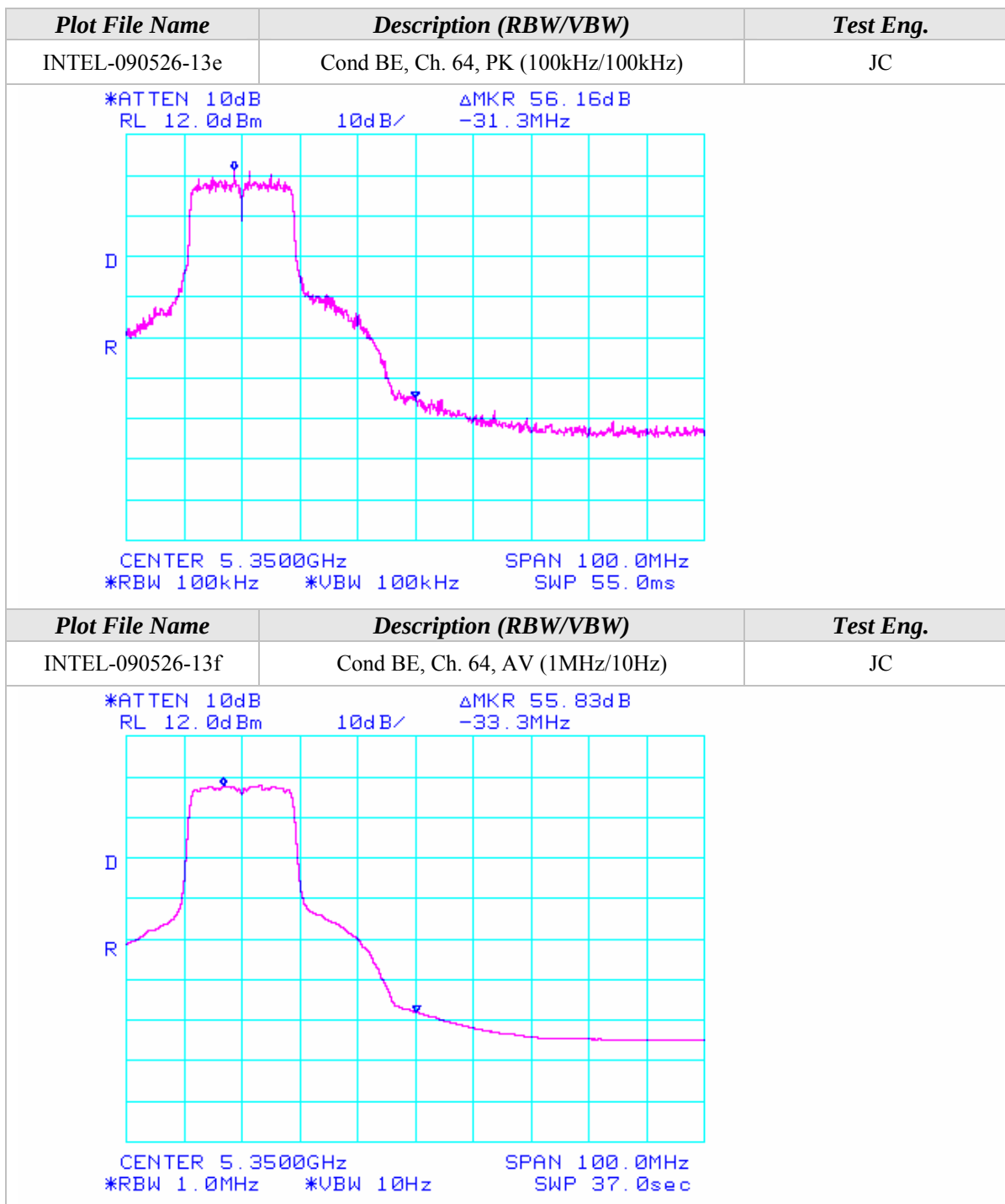


Band-Edge Plots (Continued)





Band-Edge Plots (Continued)





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 C Antenna port with Shanghai Universe Antennas

Aegis Labs, Inc. File #: INTEL-090526-13

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
5180.00	63.67	100	45			3.77	34.28	101.72			Ch. 36
5180.00				53.83	A	3.77	34.28	91.88			
5200.00	64.33	100	45			3.78	34.30	102.41			Ch. 40
5200.00				54.67	A	3.78	34.30	92.75			
5240.00	63.17	100	0			3.80	34.34	101.31			Ch. 48
5240.00				54.00	A	3.80	34.34	92.14			
5260.00	65.00	100	45			3.80	34.36	103.16			Ch. 52
5260.00				55.83	A	3.80	34.36	93.99			
5280.00	64.33	100	0			3.81	34.38	102.52			Ch. 56
5280.00				55.00	A	3.81	34.38	93.19			
5320.00	64.17	100	45			3.83	34.42	102.42			Ch. 64
5320.00				54.67	A	3.83	34.42	92.92			

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
5180.00	63.00	100	270			3.77	34.48	101.25			Ch. 36
5180.00				53.17	A	3.77	34.48	91.42			
5200.00	63.67	100	315			3.78	34.50	101.95			Ch. 40
5200.00				54.67	A	3.78	34.50	92.95			
5240.00	64.33	100	315			3.80	34.54	102.67			Ch. 48
5240.00				55.00	A	3.80	34.54	93.34			
5260.00	65.50	100	0			3.80	34.56	103.86			Ch. 52
5260.00				55.83	A	3.80	34.56	94.19			
5280.00	64.67	100	315			3.81	34.58	103.06			Ch. 56
5280.00				54.50	A	3.81	34.58	92.89			
5320.00	65.83	100	315			3.83	34.62	104.28			Ch. 64
5320.00				56.33	A	3.83	34.62	94.78			

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 802.11n mode 20MHz Wide (5150-5350 MHz)
Channels 36 & 64****Continuous TX at Chain C Antenna port with Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090526-13****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							56.72	74.00	-17.28	Ch. 36
5150.00							48.89	74.00	-25.11	
5150.00				A			39.55	54.00	-14.45	
5150.00				A			39.05	54.00	-14.95	
5350.00							51.92	74.00	-22.08	Ch. 64
5350.00							44.26	74.00	-29.74	
5350.00				A			35.25	54.00	-18.75	
5350.00				A			34.76	54.00	-19.24	

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							56.25	74.00	-17.75	Ch. 36
5150.00							48.42	74.00	-25.58	
5150.00				A			39.09	54.00	-14.91	
5150.00				A			38.59	54.00	-15.41	
5350.00							53.78	74.00	-20.22	Ch. 64
5350.00							46.12	74.00	-27.88	
5350.00				A			37.11	54.00	-16.89	
5350.00				A			36.62	54.00	-17.38	

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

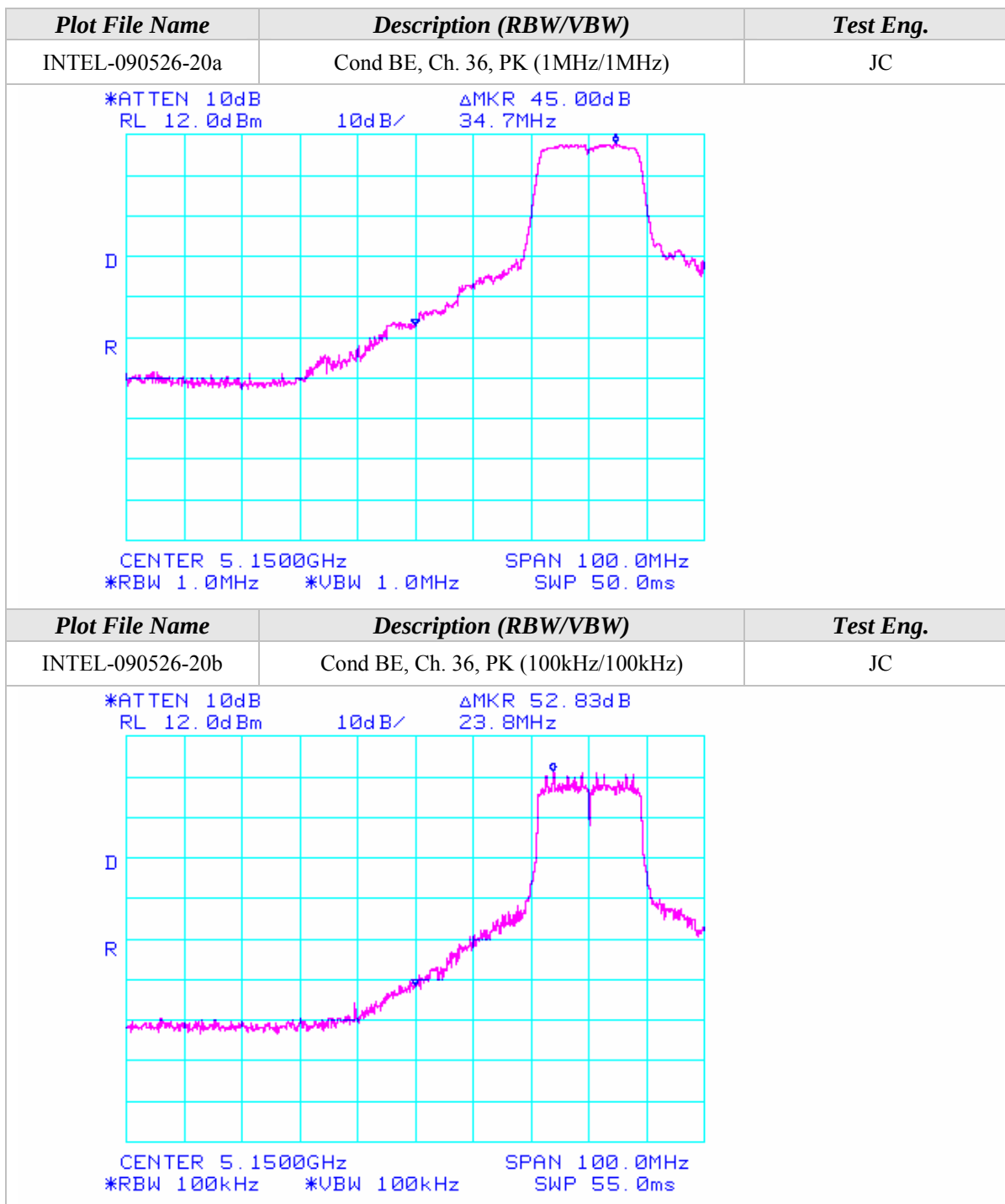
BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

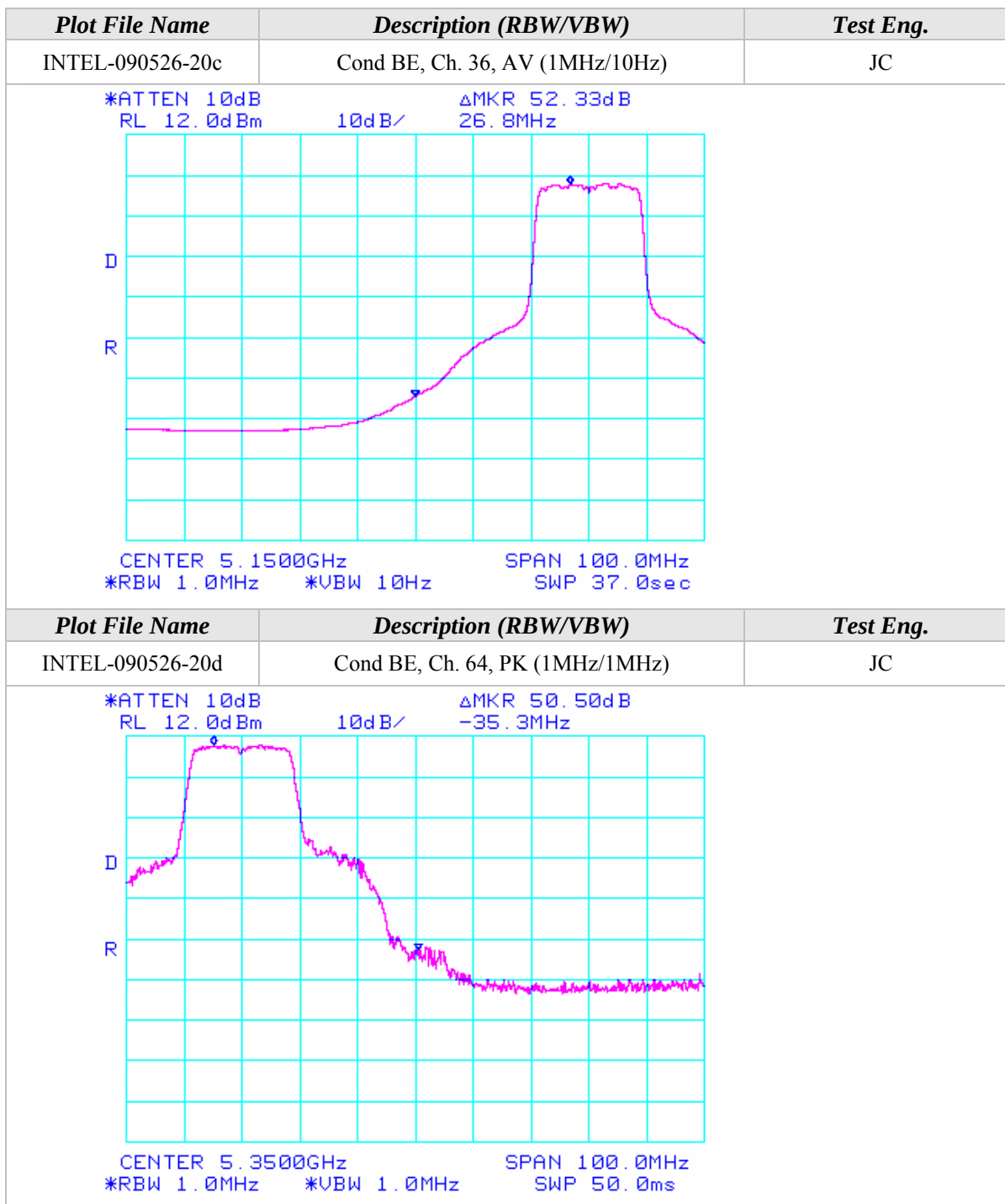


Band-Edge Plots (Continued)



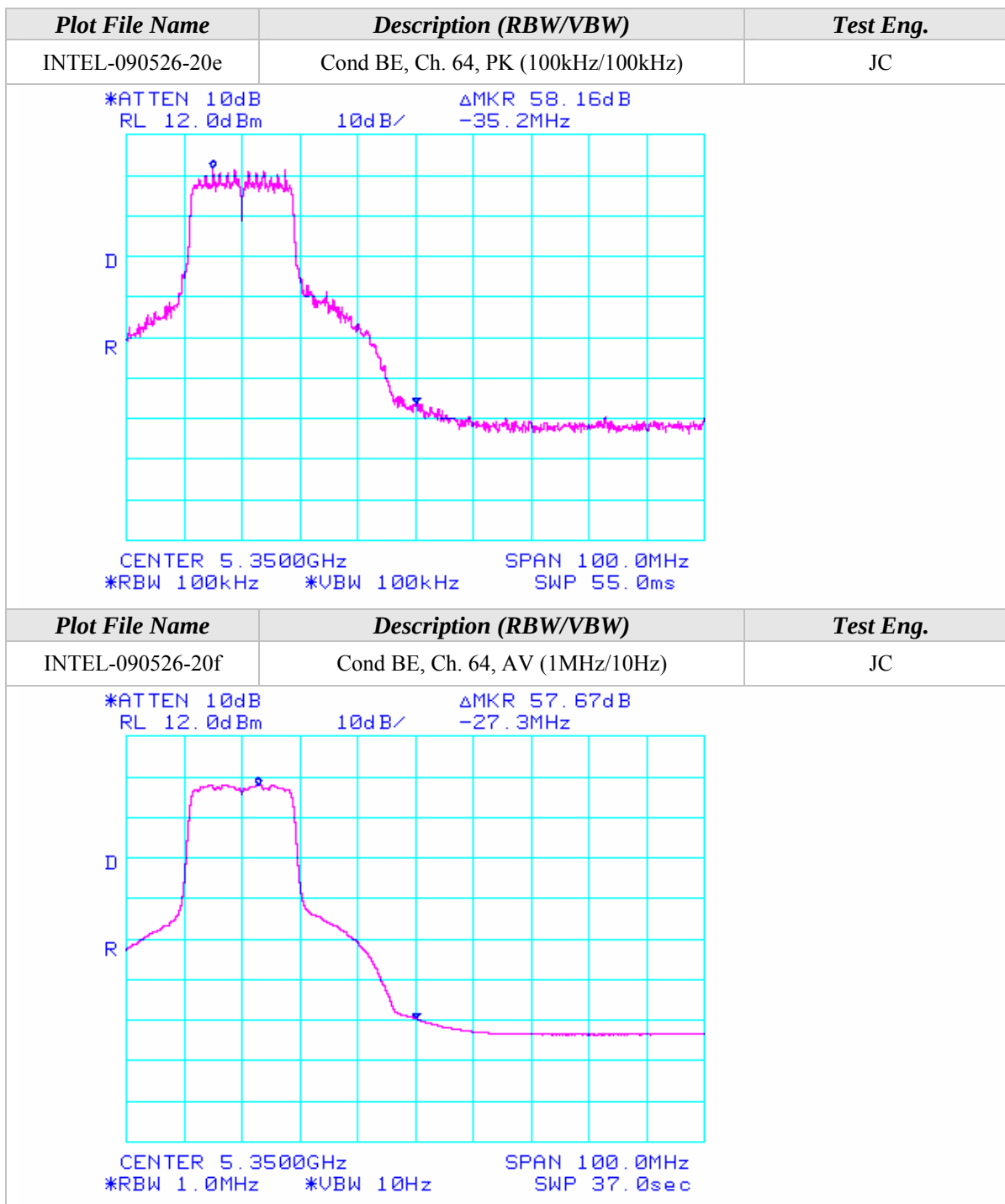


Band-Edge Plots (Continued)





Band-Edge Plots (Continued)





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, & C Antenna ports with Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090526-18

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	Ch. 40/A
3466.66	51.00	100	270		47.64	3.06	32.79	39.22	68.00	-28.78	Ch. 40/
6933.33	52.33	100	0		46.25	4.40	35.79	46.27	68.00	-21.73	B
3466.66	52.33	100	0		47.64	3.06	32.79	40.55	68.00	-27.45	Ch. 40/
6933.33	53.17	100	315		46.25	4.40	35.79	47.11	68.00	-20.89	C
3453.33	52.17	100	315		47.64	3.06	32.79	40.38	68.00	-27.62	Ch. 36/
6906.66	54.33	100	0		46.29	4.39	35.78	48.21	68.00	-19.79	C
3493.33	52.83	100	315		47.62	3.06	32.80	41.07	68.00	-26.93	Ch. 48/
6986.66	51.67	100	0		46.16	4.42	35.80	45.73	68.00	-22.27	C

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	Ch. 40/
6933.33	53.17	100	45		46.25	4.40	35.59	46.91	68.00	-21.09	A
3466.66	54.00	100	0		47.64	3.06	32.59	42.02	68.00	-25.98	Ch. 40/
6933.33	54.17	100	45		46.25	4.40	35.59	47.91	68.00	-20.09	B
3466.66	53.33	100	90		47.64	3.06	32.59	41.35	68.00	-26.65	Ch. 40/
6933.33	55.00	100	45		46.25	4.40	35.59	48.74	68.00	-19.26	C
3453.33	54.50	100	0		47.64	3.06	32.59	42.51	68.00	-25.49	Ch. 36/
6906.66	54.33	100	45		46.29	4.39	35.58	48.01	68.00	-19.99	C
3493.33	54.17	100	0		47.62	3.06	32.60	42.21	68.00	-25.79	Ch. 48/
6986.66	52.67	100	45		46.16	4.42	35.60	46.53	68.00	-21.47	C



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, & C Antenna ports with Shanghai Universe Antennas****Aegis Labs, Inc. File #: INTEL-090526-18****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	Ch. 56/A
7040.00	51.17	100	45		46.10	4.44	35.79	45.31	68.00	-22.69	Ch. 56/B
3520.00	52.67	100	0		47.62	3.08	32.82	40.96	68.00	-27.04	Ch. 56/
7040.00	51.33	100	0		46.10	4.44	35.79	45.47	68.00	-22.53	C
3506.66	53.67	100	0		47.62	3.07	32.81	41.93	68.00	-26.07	Ch. 52/
7013.33	52.17	100	0		46.13	4.43	35.80	46.28	68.00	-21.72	C
3546.66	53.50	100	0		47.62	3.12	32.86	41.85	68.00	-26.15	Ch. 64/
7093.33	52.33	100	0		46.05	4.46	35.78	46.53	68.00	-21.47	C

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	Ch. 56/
7040.00	52.67	100	90		46.10	4.44	35.61	46.62	68.00	-21.38	A
3520.00	53.67	100	0		47.62	3.08	32.63	41.77	68.00	-26.23	Ch. 56/
7040.00	52.50	100	90		46.10	4.44	35.61	46.45	68.00	-21.55	B
3520.00	52.33	100	0		47.62	3.08	32.63	40.43	68.00	-27.57	Ch. 56/
7040.00	52.17	100	90		46.10	4.44	35.61	46.12	68.00	-21.88	C
10560.00	52.33	100	45		45.29	5.57	37.57	50.19	68.00	-17.81	
3506.66	53.83	100	0		47.62	3.07	32.61	41.89	68.00	-26.11	Ch. 52/
7013.33	53.67	100	45		46.13	4.43	35.60	47.58	68.00	-20.42	C
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	Ch. 64/
7093.33	54.83	100	90		46.05	4.46	35.62	48.86	68.00	-19.14	C
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 Triple Chain ABC Antenna ports with Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090526-18

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	Ch. 36/
6906.66	58.00	100	180			50.50	4.39	35.68	47.57	68.00	-20.43	ABC
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	Ch. 40/
6933.33	55.50	100	135			50.48	4.40	35.69	45.11	68.00	-22.89	ABC
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	Ch. 48/
6986.66	57.83	100	180			50.44	4.42	35.70	47.51	68.00	-20.49	ABC
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	Ch. 36/
6906.66	56.67	100	225			50.50	4.39	35.60	46.16	68.00	-21.84	ABC
3466.66	53.83	100	0			50.72	3.06	32.88	39.05	68.00	-28.95	Ch. 40/
6933.33	54.67	100	180			50.48	4.40	35.60	44.19	68.00	-23.81	ABC
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	Ch. 48/
6986.66	53.50	100	180			50.44	4.42	35.60	43.08	68.00	-24.92	ABC



Radiated Emissions Test Results (Continued)

Spurious Emissions Measurements in 802.11n mode 20MHz Wide (5150-5350 MHz)**Channels 52, 56, & 64****Continuous TX at Triple Chain ABC Antenna ports with Shanghai Universe Antennas****Aegis Labs, Inc. File #: INTEL-090526-18****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	Ch. 52/
7013.32	57.83	100	135		50.42	4.43	35.71	47.55	68.00	-20.45	ABC
3520.00	52.50	100	270		50.74	3.08	32.82	37.67	68.00	-30.33	Ch. 56/
7040.00	52.33	100	225		50.41	4.44	35.72	42.09	68.00	-25.91	ABC
3546.66	54.33	100	270		50.71	3.12	32.86	39.59	68.00	-28.41	Ch. 64/
7093.32	54.17	100	135		50.38	4.46	35.76	44.01	68.00	-23.99	ABC

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	Ch. 52/
7013.32	54.50	100	135		50.42	4.43	35.61	44.12	68.00	-23.88	ABC
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	Ch. 56/
7040.00	54.33	100	135		50.41	4.44	35.64	44.00	68.00	-24.00	ABC
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	Ch. 64/
7093.32	53.33	100	135		50.38	4.46	35.69	43.10	68.00	-24.90	ABC

**RADIATED EMISSIONS TEST RESULTS**

CLIENT:	Intel Corporation	DATE:	06/25/09
EUT:	Intel® Centrino® Ultimate-N 6300	PROJECT NUMBER:	INTEL-090526
MODEL NUMBER:	633ANHMW	TEST ENGINEER:	JC
SERIAL NUMBER:	0015005A17C0	SITE #:	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot in 802.11n (5150-5350 MHz) mode 40MHz Wide.	TEMPERATURE:	27° C
		HUMIDITY:	44% RH
		TIME:	3:00 PM

Description:	Radiated RF Emissions (1 GHz – 18 GHz)
Results:	PASSED Horizontal and Vertical Antenna Polarizations Class B Limits
Note:	Radiated Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. • 120VAC / 60 Hz.

Unwanted Spurious Emissions Limits			
Frequency (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m) (Emissions in the restricted bands)	Field Strength (dBm/MHz) (Emissions outside the restricted bands)
Above 960	500	54.00 (Average) 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-090526-09****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
5190.00	60.83	100	45			3.78	34.29	98.90			Ch. 38
5190.00				51.00	A	3.78	34.29	89.07			
5230.00	61.67	100	45			3.79	34.33	99.79			Ch. 46
5230.00				51.83	A	3.79	34.33	89.95			
5270.00	63.33	100	0			3.81	34.37	101.51			Ch. 54
5270.00				54.50	A	3.81	34.37	92.68			
5310.00	62.83	100	45			3.82	34.41	101.06			Ch. 62
5310.00				53.17	A	3.82	34.41	91.40			

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
5190.00	62.50	100	315			3.78	34.49	100.77			Ch. 38
5190.00				51.83	A	3.78	34.49	90.10			
5230.00	61.83	100	315			3.79	34.53	100.15			Ch. 46
5230.00				51.33	A	3.79	34.53	89.65			
5270.00	62.50	100	45			3.81	34.57	100.88			Ch. 54
5270.00				52.00	A	3.81	34.57	90.38			
5310.00	62.83	100	45			3.82	34.61	101.26			Ch. 62
5310.00				52.33	A	3.82	34.61	90.76			

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-090526-09****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							56.06	74.00	-17.94	Ch. 38
5150.00							50.90	74.00	-23.10	
5150.00				A			42.07	54.00	-11.93	
5150.00				A			41.07	54.00	-12.93	
5350.00							56.39	74.00	-17.61	Ch. 62
5350.00							50.56	74.00	-23.44	
5350.00				A			41.57	54.00	-12.43	
5350.00				A			40.90	54.00	-13.10	

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							57.93	74.00	-16.07	Ch. 38
5150.00							52.77	74.00	-21.23	
5150.00				A			43.10	54.00	-10.90	
5150.00				A			42.10	54.00	-11.90	
5350.00							56.59	74.00	-17.41	Ch. 62
5350.00							50.76	74.00	-23.24	
5350.00				A			40.93	54.00	-13.07	
5350.00				A			40.26	54.00	-13.74	

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

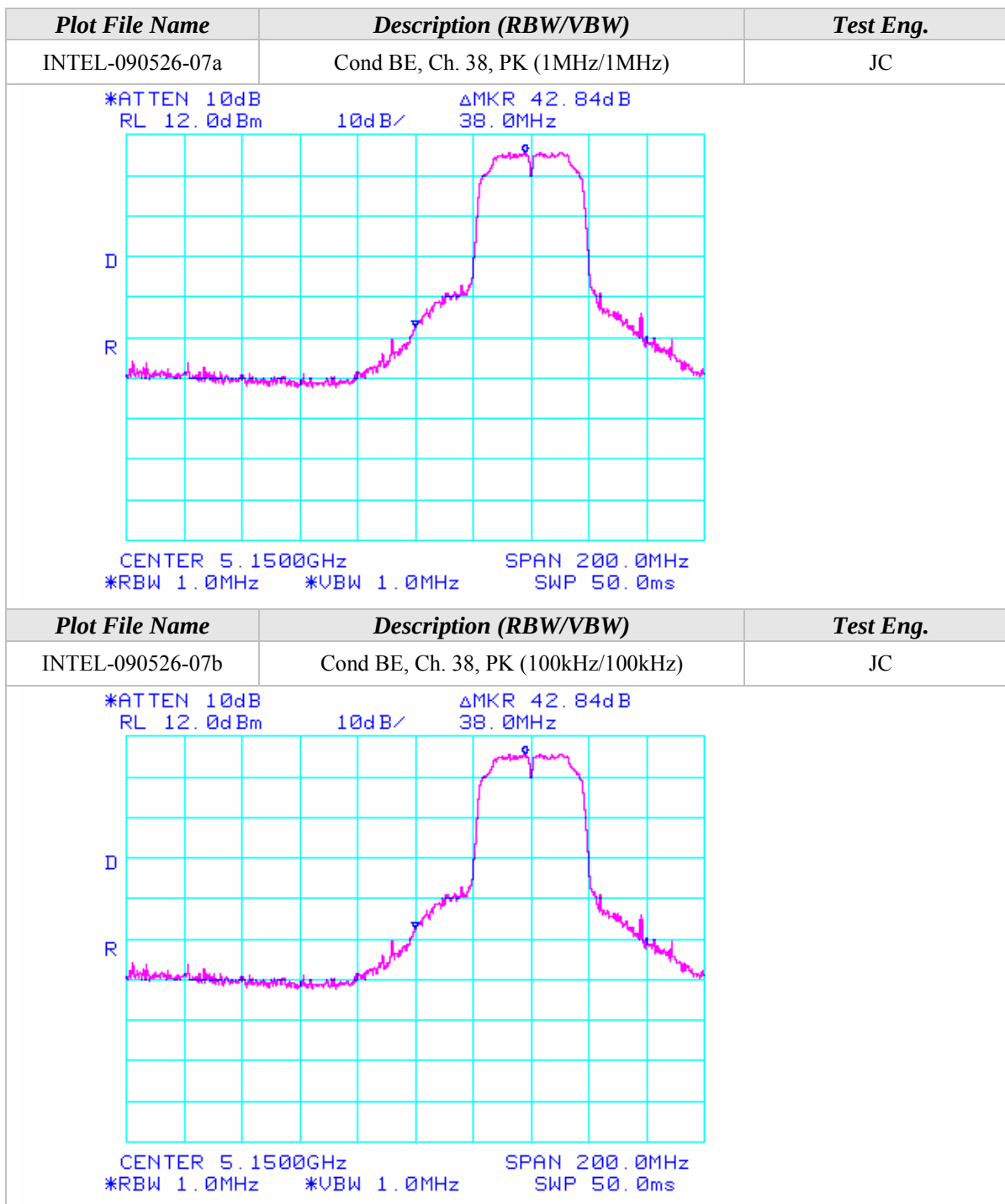
BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

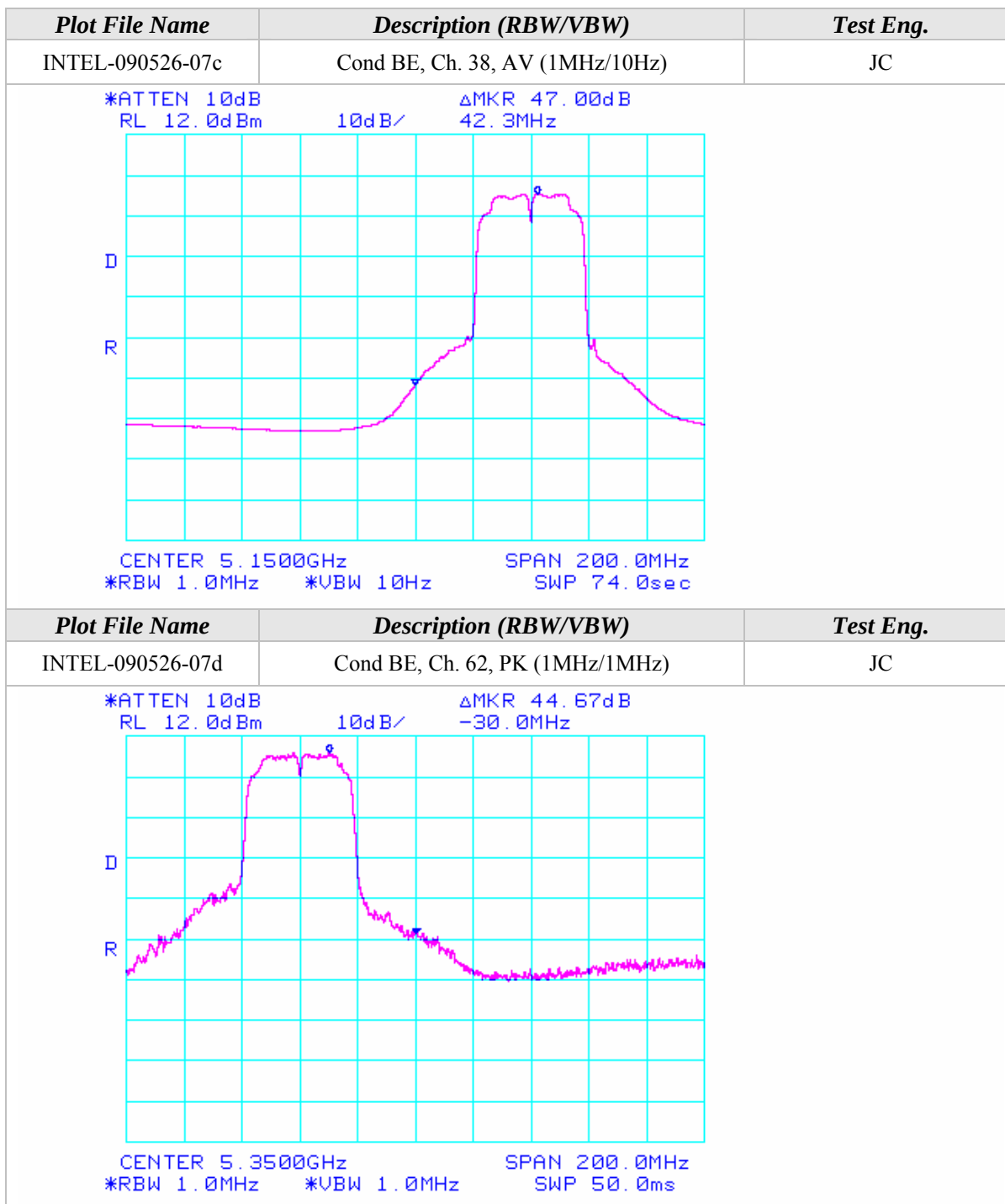


Band-Edge Plots (Continued)



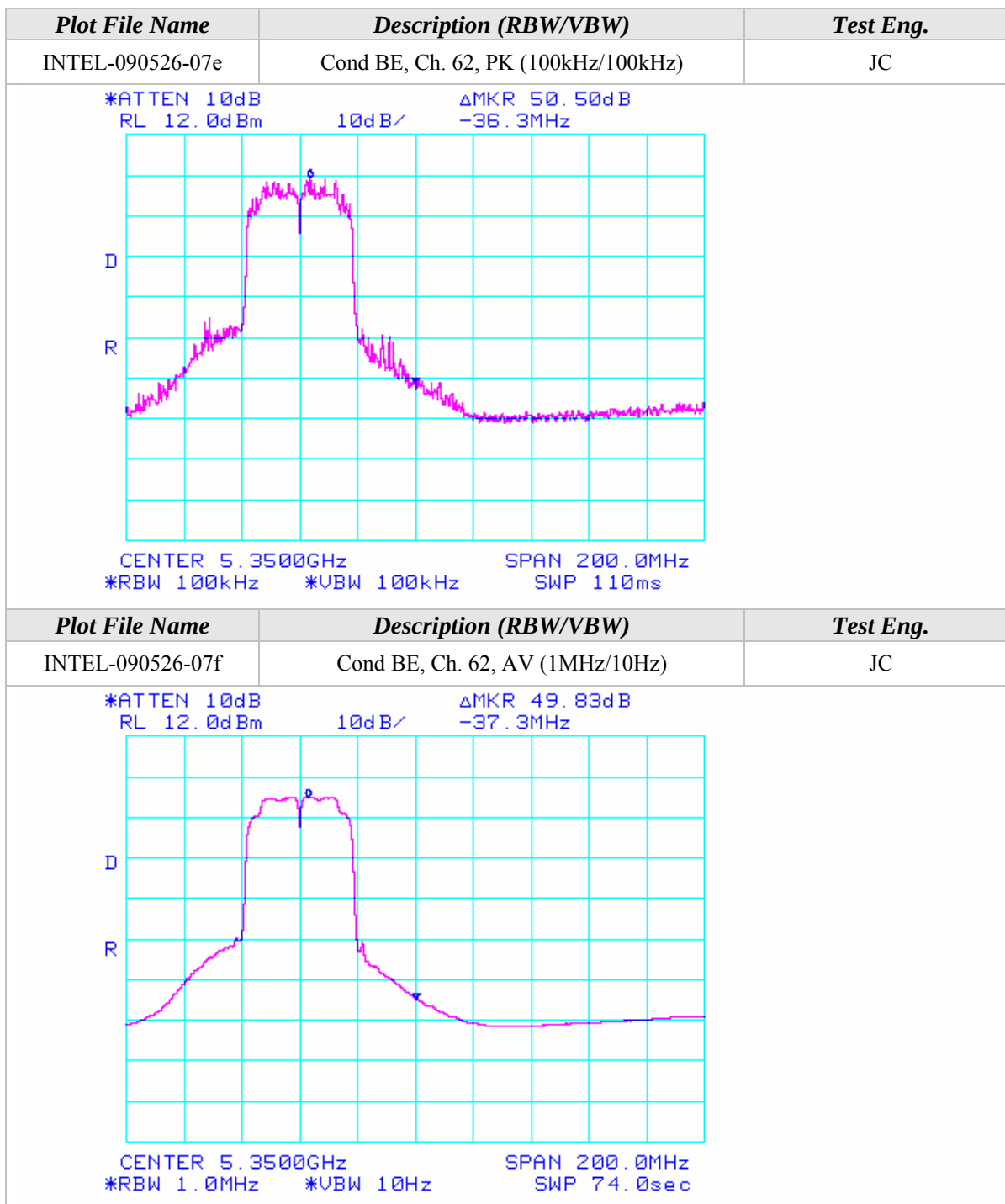


Band-Edge Plots (Continued)





Band-Edge Plots (Continued)





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-090526-11****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
5190.00	61.67	100	180			3.78	34.29	99.74			Ch. 38
5190.00				51.50	A	3.78	34.29	89.57			
5230.00	62.83	100	180			3.79	34.33	100.95			Ch. 46
5230.00				52.67	A	3.79	34.33	90.79			
5270.00	63.33	100	315			3.81	34.37	101.51			Ch. 54
5270.00				53.17	A	3.81	34.37	91.35			
5310.00	62.00	100	315			3.82	34.41	100.23			Ch. 62
5310.00				51.50	A	3.82	34.41	89.73			

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
5190.00	61.00	100	90			3.78	34.49	99.27			Ch. 38
5190.00				51.67	A	3.78	34.49	89.94			
5230.00	62.17	100	90			3.79	34.53	100.49			Ch. 46
5230.00				52.83	A	3.79	34.53	91.15			
5270.00	62.50	100	45			3.81	34.57	100.88			Ch. 54
5270.00				53.50	A	3.81	34.57	91.88			
5310.00	61.50	100	45			3.82	34.61	99.93			Ch. 62
5310.00				51.00	A	3.82	34.61	89.43			

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-090526-11**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							63.74	74.00	-10.26	Ch. 38
5150.00							59.58	74.00	-14.42	
5150.00				A			50.57	54.00	-3.43	
5150.00				A			49.41	54.00	-4.59	
5350.00							61.23	74.00	-12.77	Ch. 62
5350.00							60.73	74.00	-13.27	
5350.00				A			49.40	54.00	-4.60	
5350.00				A			50.23	54.00	-3.77	

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							63.27	74.00	-10.73	Ch. 38
5150.00							59.11	74.00	-14.89	
5150.00				A			50.94	54.00	-3.06	
5150.00				A			49.78	54.00	-4.22	
5350.00							60.93	74.00	-13.07	Ch. 62
5350.00							60.43	74.00	-13.57	
5350.00				A			49.10	54.00	-4.90	
5350.00				A			49.93	54.00	-4.07	

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

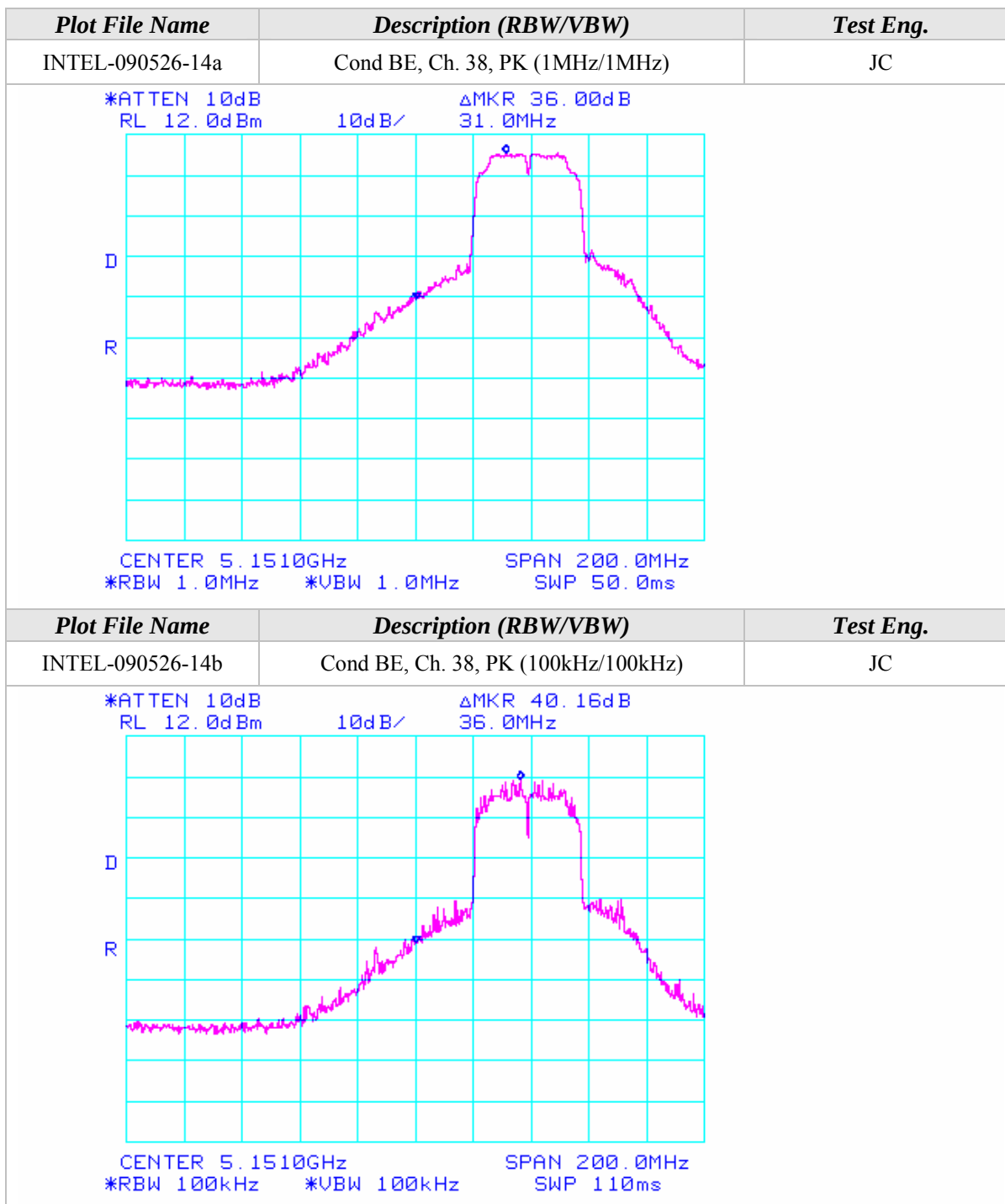
BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

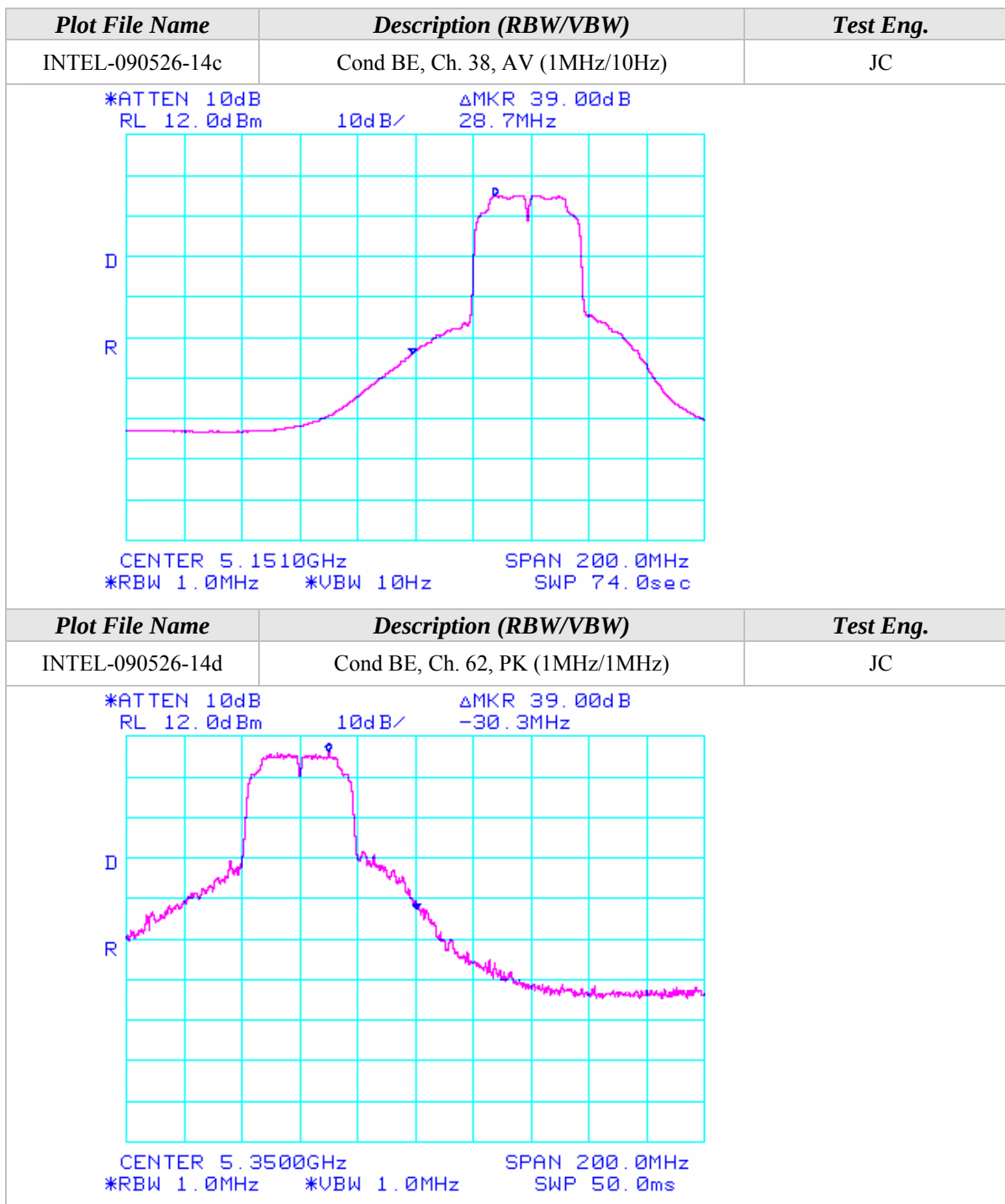


Band-Edge Plots (Continued)



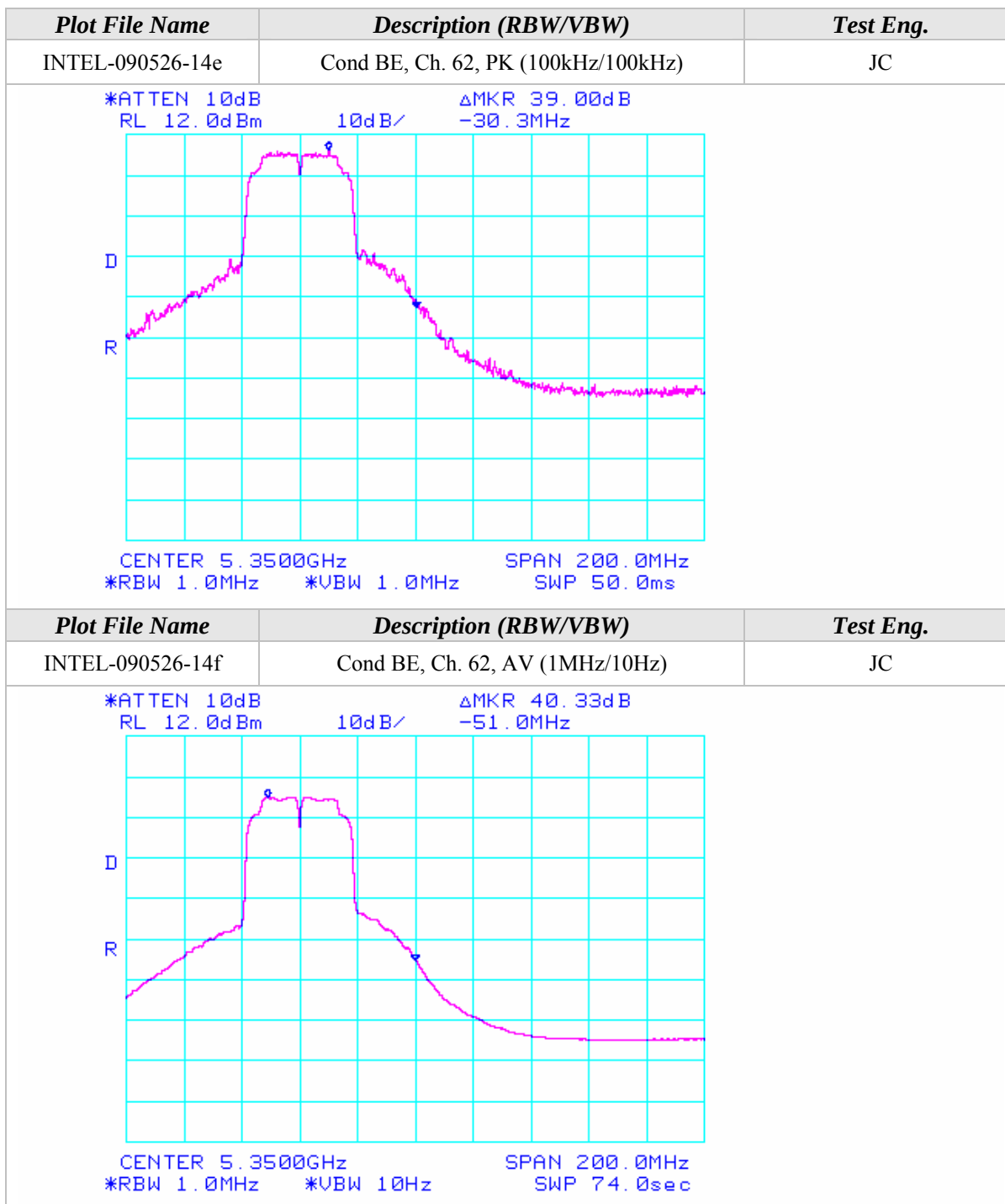


Band-Edge Plots (Continued)





Band-Edge Plots (Continued)





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 C Antenna port with Shanghai Universe Antennas****Aegis Labs, Inc. File #: INTEL-090526-13****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
5190.00	60.67	100	45			3.78	34.29	98.74			Ch. 38
5190.00				50.83	A	3.78	34.29	88.90			
5230.00	61.83	100	45			3.79	34.33	99.95			Ch. 46
5230.00				52.00	A	3.79	34.33	90.12			
5270.00	63.00	100	0			3.81	34.37	101.18			Ch. 54
5270.00				54.17	A	3.81	34.37	92.35			
5310.00	62.33	100	45			3.82	34.41	100.56			Ch. 62
5310.00				52.50	A	3.82	34.41	90.73			

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
5190.00	61.50	100	315			3.78	34.49	99.77			Ch. 38
5190.00				52.33	A	3.78	34.49	90.60			
5230.00	62.67	100	315			3.79	34.53	100.99			Ch. 46
5230.00				53.50	A	3.79	34.53	91.82			
5270.00	62.00	100	45			3.81	34.57	100.38			Ch. 54
5270.00				52.83	A	3.81	34.57	91.21			
5310.00	62.33	100	45			3.82	34.61	100.76			Ch. 62
5310.00				53.00	A	3.82	34.61	91.43			

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 C Antenna port with Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090526-13****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							60.58	74.00	-13.42	Ch. 38
5150.00							56.07	74.00	-17.93	
5150.00				A			47.23	54.00	-6.77	
5150.00				A			46.23	54.00	-7.77	
5350.00							62.56	74.00	-11.44	Ch. 62
5350.00							58.73	74.00	-15.27	
5350.00				A			49.56	54.00	-4.44	
5350.00				A			48.90	54.00	-5.10	

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							61.61	74.00	-12.39	Ch. 38
5150.00							57.10	74.00	-16.90	
5150.00				A			48.93	54.00	-5.07	
5150.00				A			47.93	54.00	-6.07	
5350.00							62.76	74.00	-11.24	Ch. 62
5350.00							58.93	74.00	-15.07	
5350.00				A			50.26	54.00	-3.74	
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

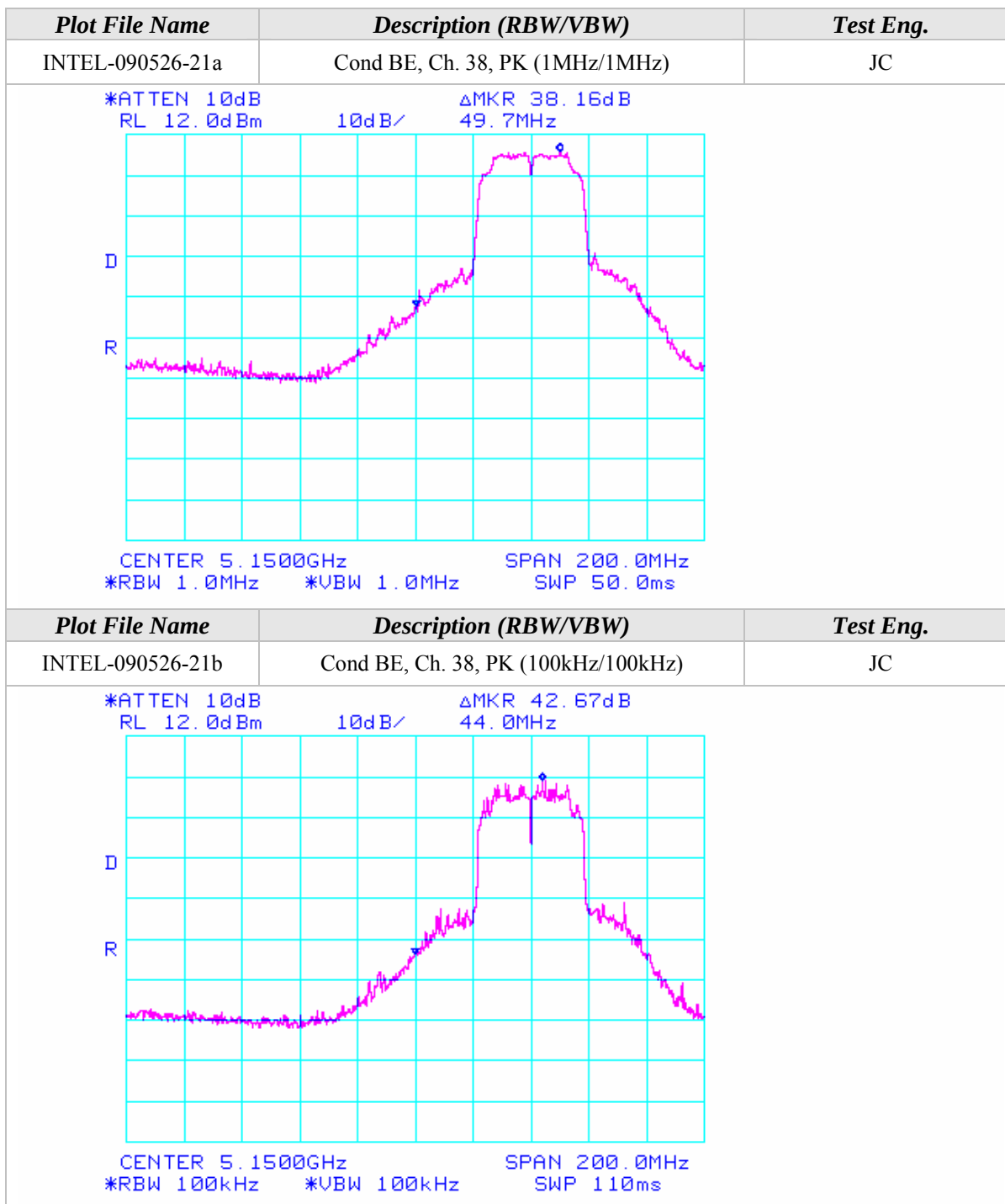
BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

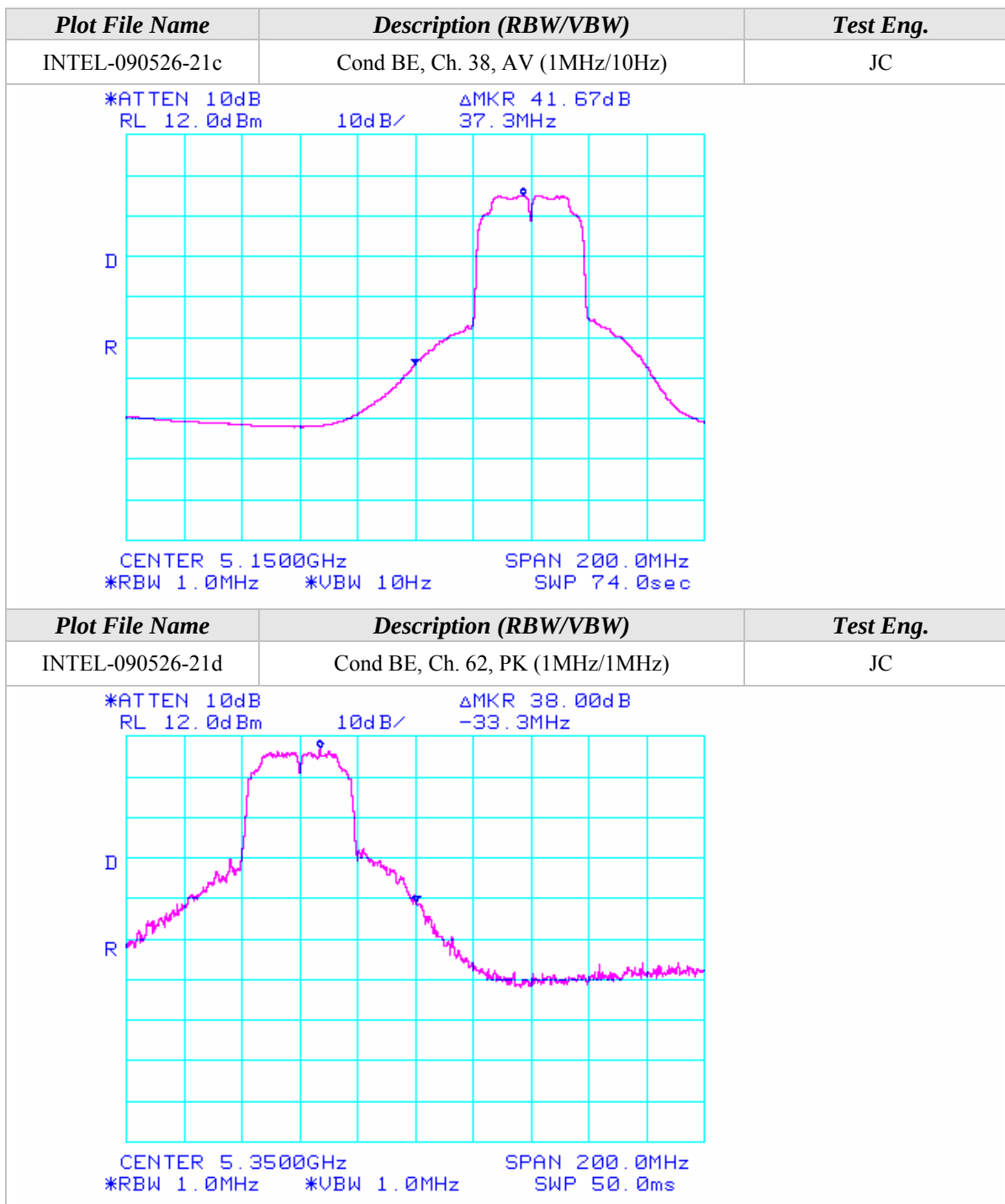


Band-Edge Plots (Continued)



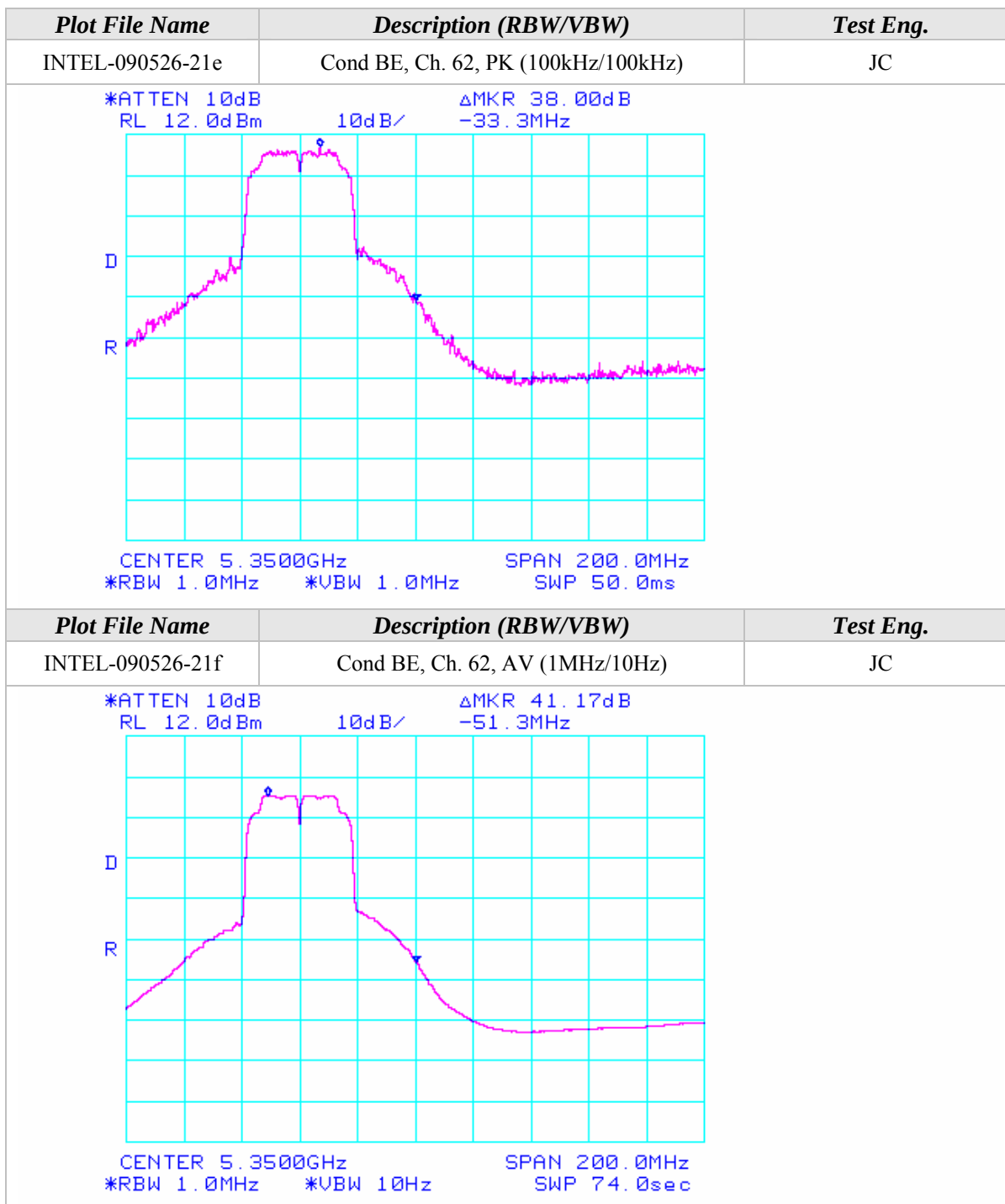


Band-Edge Plots (Continued)





Band-Edge Plots (Continued)



**RADIATED EMISSIONS TEST RESULTS**

CLIENT:	Intel Corporation	DATE:	06/25/09
EUT:	Intel® Centrino® Ultimate-N 6300	PROJECT NUMBER:	INTEL-090526
MODEL NUMBER:	633ANHMW	TEST ENGINEER:	JC
SERIAL NUMBER:	0015005A17C0	SITE #:	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot in 802.11a (5470-5725 MHz) mode.	TEMPERATURE:	27° C
		HUMIDITY:	44% RH
		TIME:	3:00 PM

Description:	Radiated RF Emissions (1 GHz – 18 GHz)
Results:	PASSED Horizontal and Vertical Antenna Polarizations Class B Limits
Note:	Radiated Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. • 120VAC / 60 Hz.

Unwanted Spurious Emissions Limits			
Frequency (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m) (Emissions in the restricted bands)	Field Strength (dBm/MHz) (Emissions outside the restricted bands)
Above 960	500	54.00 (Average) 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-090526-09****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
5500.00	64.50	100	45			3.89	34.60	102.99			Ch. 100
5500.00				55.00	A	3.89	34.60	93.49			
5600.00	64.83	100	45			3.93	34.72	103.48			Ch. 120
5600.00				55.67	A	3.93	34.72	94.32			
5700.00	64.00	100	90			3.97	34.84	102.81			Ch. 140
5700.00				54.33	A	3.97	34.84	93.14			

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
5500.00	67.00	100	315			3.89	34.80	105.69			Ch. 100
5500.00				56.67	A	3.89	34.80	95.36			
5600.00	66.33	100	315			3.93	34.90	105.16			Ch. 120
5600.00				55.83	A	3.93	34.90	94.66			
5700.00	65.50	100	315			3.97	35.00	104.47			Ch. 140
5700.00				55.33	A	3.97	35.00	94.30			

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-090526-09*

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							47.82	74.00	-26.18	Ch. 100
5460.00							42.82	74.00	-31.18	
5460.00					A		33.16	54.00	-20.84	
5460.00					A		33.32	54.00	-20.68	
5725.00	30.50	100	90		3.98	34.87	69.35	82.81	-13.46	Ch. 140

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							50.52	74.00	-23.48	Ch. 100
5460.00							45.52	74.00	-28.48	
5460.00					A		35.03	54.00	-18.97	
5460.00					A		35.19	54.00	-18.81	
5725.00	30.83	100	315		3.98	35.03	69.83	84.47	-14.64	Ch. 140

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

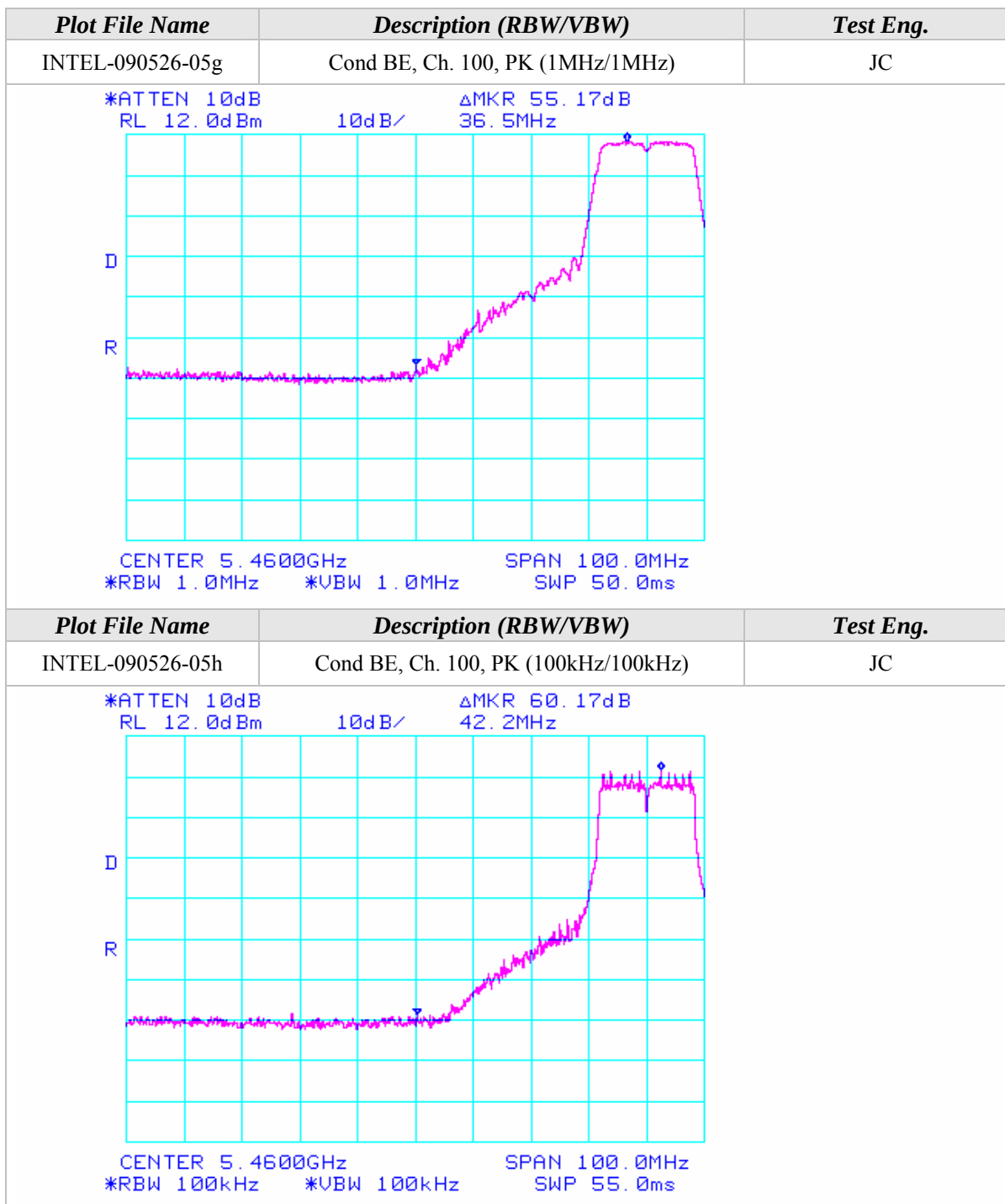
BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

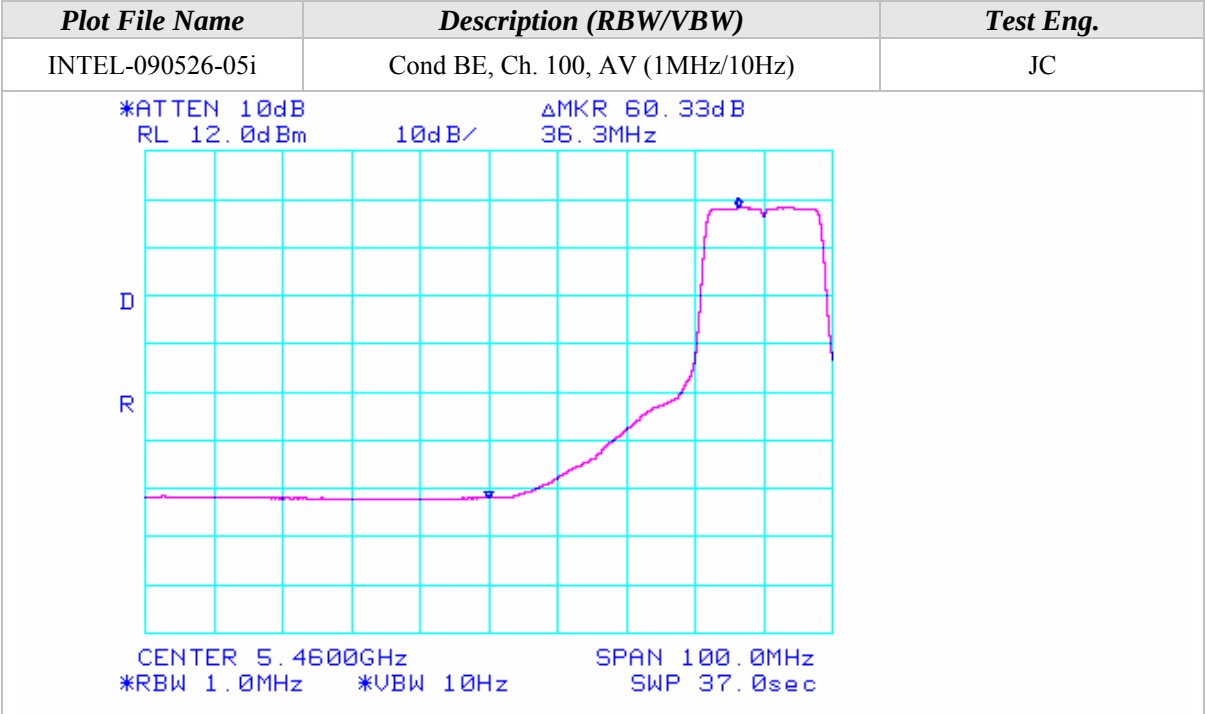


Band-Edge Plots (Continued)





Band-Edge Plots (Continued)





Radiated Emissions Test Results (Continued)

Fundamental Measurements in 802.11a mode (5470-5725 MHz)**Channels 100, 120, & 140****Continuous TX at Chain B Antenna port with Shanghai Universe Antennas****Aegis Labs, Inc. File #: INTEL-090526-11****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
5500.00	65.00	100	0			3.89	34.60	103.49			Ch. 100
5500.00				55.17	A	3.89	34.60	93.66			
5600.00	63.83	100	315			3.93	34.72	102.48			Ch. 120
5600.00				54.33	A	3.93	34.72	92.98			
5700.00	63.17	100	315			3.97	34.84	101.98			Ch. 140
5700.00				53.67	A	3.97	34.84	92.48			

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
5500.00	66.83	100	315			3.89	34.80	105.52			Ch. 100
5500.00				58.17	A	3.89	34.80	96.86			
5600.00	66.50	100	0			3.93	34.90	105.33			Ch. 120
5600.00				57.83	A	3.93	34.90	96.66			
5700.00	66.17	100	315			3.97	35.00	105.14			Ch. 140
5700.00				57.33	A	3.97	35.00	96.30			

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-090526-11*

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							55.66	74.00	-18.34	Ch. 100
5460.00							48.32	74.00	-25.68	
5460.00					A		38.83	54.00	-15.17	
5460.00					A		38.49	54.00	-15.51	
5725.00	33.33	100	315		3.98	34.87	72.18	81.98	-9.80	Ch. 140

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							57.69	74.00	-16.31	Ch. 100
5460.00							50.35	74.00	-23.65	
5460.00					A		42.03	54.00	-11.97	
5460.00					A		41.69	54.00	-12.31	
5725.00	31.33	100	315		3.98	35.03	70.33	85.14	-14.81	Ch. 140

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

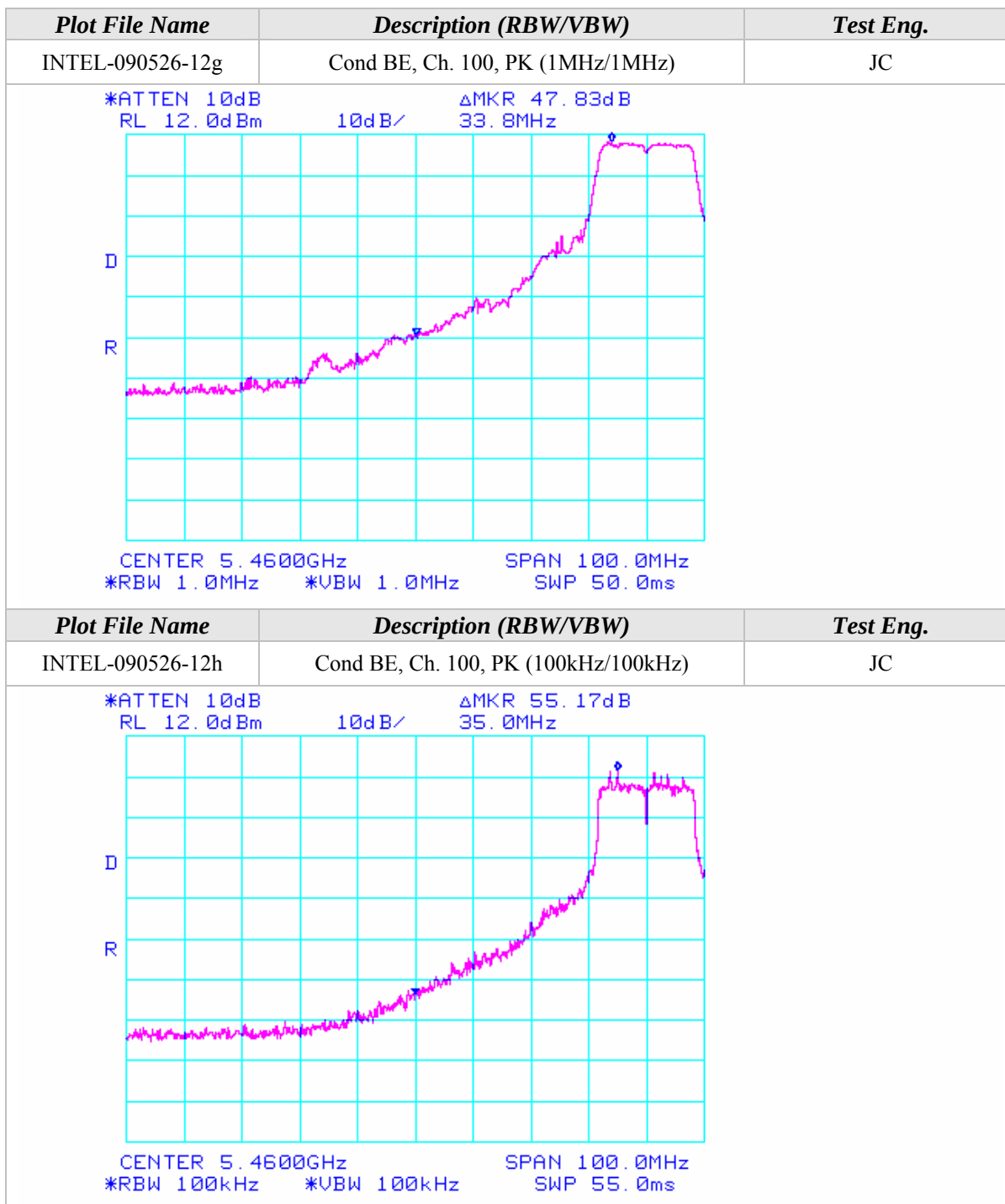
BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

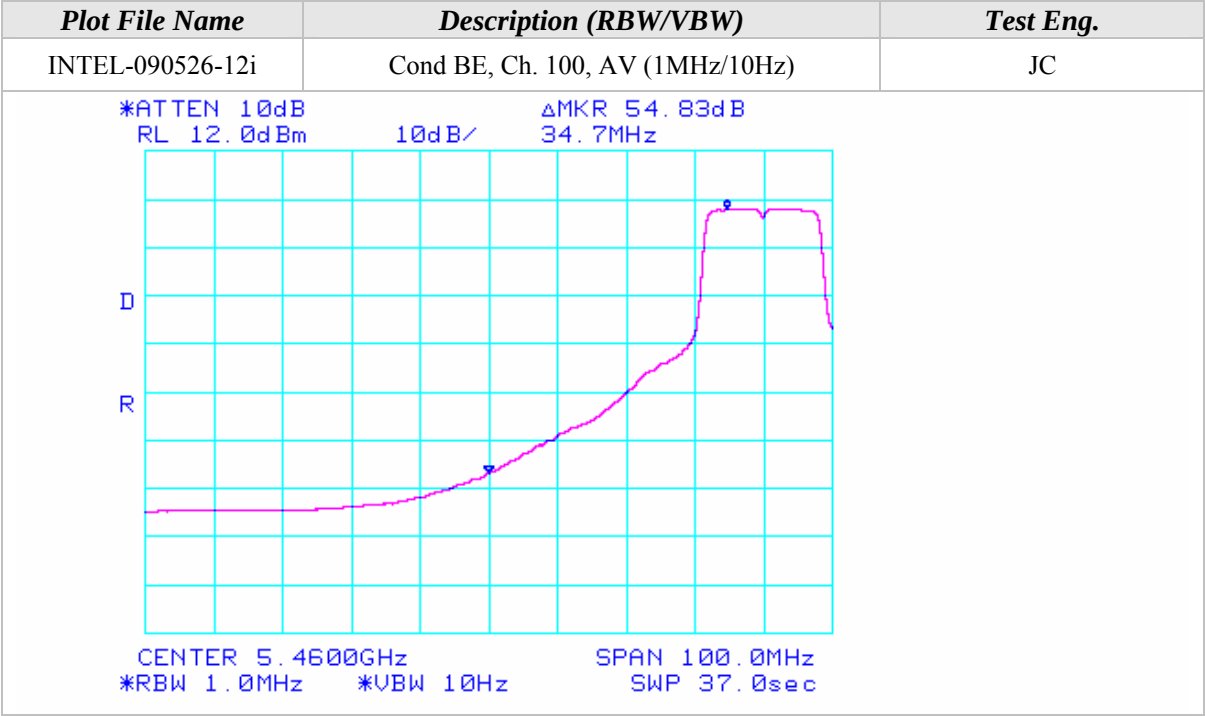


Band-Edge Plots (Continued)





Band-Edge Plots (Continued)





Radiated Emissions Test Results (Continued)

Fundamental Measurements in 802.11a mode (5470-5725 MHz)**Channels 100, 120, & 140****Continuous TX at Chain C Antenna port with Shanghai Universe Antennas****Aegis Labs, Inc. File #: INTEL-090526-13****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
5500.00	65.17	100	45			3.89	34.60	103.66			Ch. 100
5500.00				56.33	A	3.89	34.60	94.82			
5600.00	65.50	100	45			3.93	34.72	104.15			Ch. 120
5600.00				55.33	A	3.93	34.72	93.98			
5700.00	64.67	100	90			3.97	34.84	103.48			Ch. 140
5700.00				55.00	A	3.97	34.84	93.81			

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
5500.00	66.17	100	315			3.89	34.80	104.86			Ch. 100
5500.00				56.00	A	3.89	34.80	94.69			
5600.00	66.67	100	315			3.93	34.90	105.50			Ch. 120
5600.00				56.67	A	3.93	34.90	95.50			
5700.00	65.33	100	315			3.97	35.00	104.30			Ch. 140
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 C Antenna port with Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090526-13*

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							54.16	74.00	-19.84	Ch. 100
5460.00							47.33	74.00	-26.67	
5460.00					A		38.16	54.00	-15.84	
5460.00					A		38.49	54.00	-15.51	
5725.00	31.33	100	90		3.98	34.87	70.18	83.48	-13.30	Ch. 140

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							55.36	74.00	-18.64	Ch. 100
5460.00							48.53	74.00	-25.47	
5460.00					A		38.03	54.00	-15.97	
5460.00					A		38.36	54.00	-15.64	
5725.00	31.33	100	315		3.98	35.03	70.33	84.30	-13.97	Ch. 140

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

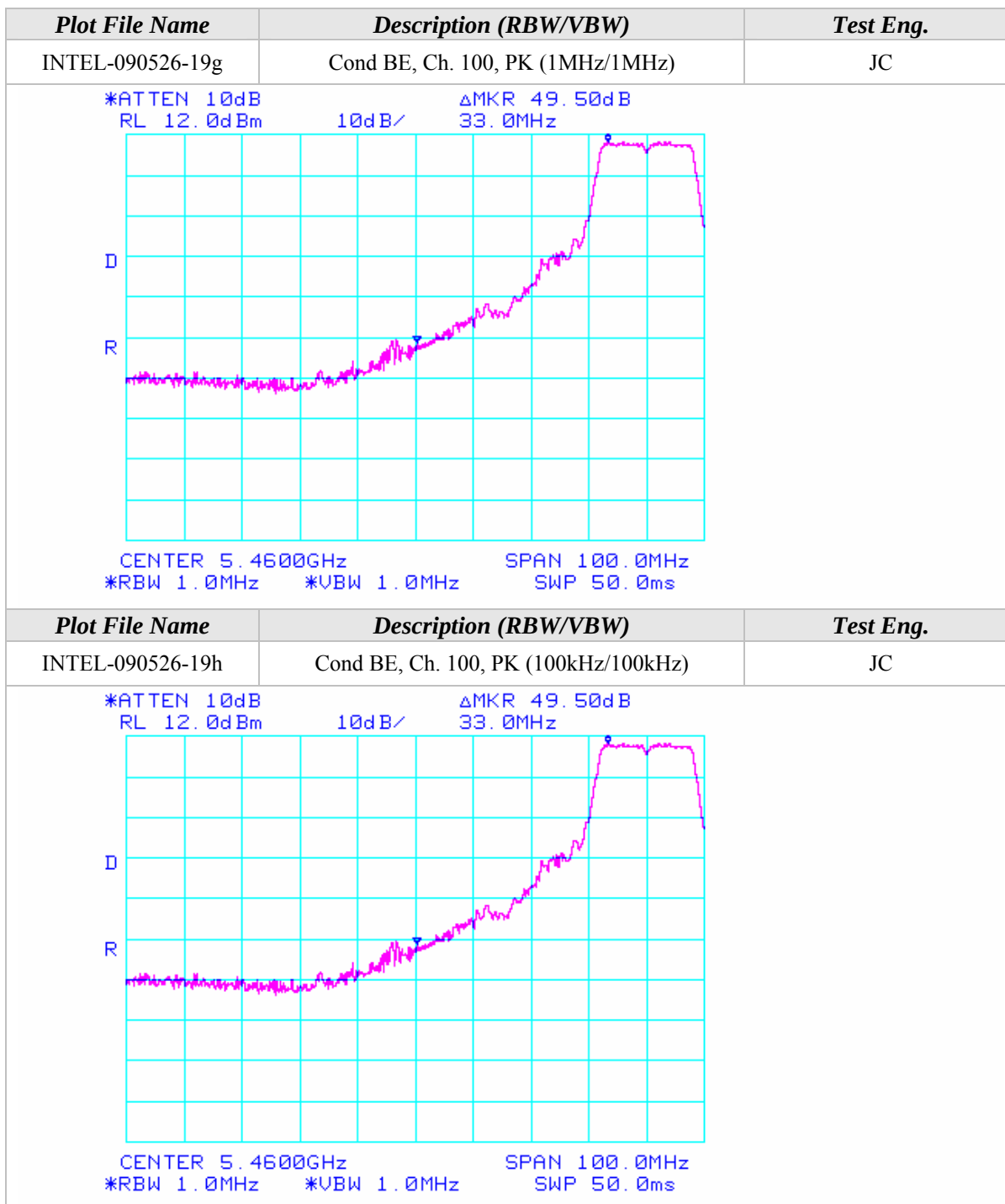
BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

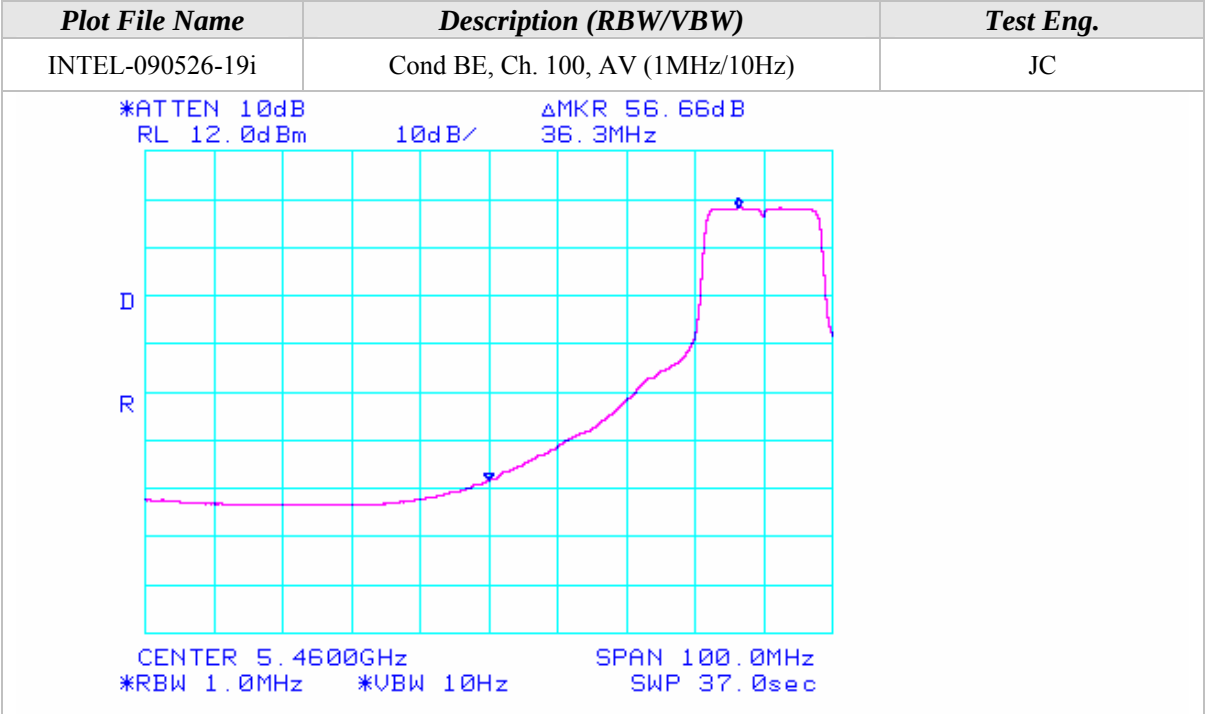


Band-Edge Plots (Continued)





Band-Edge Plots (Continued)





Radiated Emissions Test Results (Continued)

Spurious Emissions Measurements in 802.11a mode (5470-5725 MHz)
Channels 100, 120, & 140
Continuous TX at Chain A, B, & C Antenna ports with Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090526-17

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
3733.33	52.83	100	315			47.55	3.19	33.08	41.55	74.00	-32.45	Ch. 120/C
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	
3733.33	54.17	100	0			47.55	3.19	32.97	42.78	74.00	-31.22	Ch. 120/
7466.66	51.83	100	0			45.68	4.60	35.69	46.44	74.00	-27.56	C
7466.66		100	0	39.50	A	45.68	4.60	35.69	34.11	54.00	-19.89	
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	C
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/C

**RADIATED EMISSIONS TEST RESULTS**

CLIENT:	Intel Corporation	DATE:	06/25/09
EUT:	Intel® Centrino® Ultimate-N 6300	PROJECT NUMBER:	INTEL-090526
MODEL NUMBER:	633ANHMW	TEST ENGINEER:	JC
SERIAL NUMBER:	0015005A17C0	SITE #:	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot in 802.11n (5740-5745 MHz) mode 20MHz Wide.	TEMPERATURE:	27° C
		HUMIDITY:	44% RH
		TIME:	3:00 PM

Description:	Radiated RF Emissions (1 GHz – 18 GHz)
Results:	PASSED Horizontal and Vertical Antenna Polarizations Class B Limits
Note:	Radiated Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. • 120VAC / 60 Hz.

Unwanted Spurious Emissions Limits			
Frequency (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m) (Emissions in the restricted bands)	Field Strength (dBm/MHz) (Emissions outside the restricted bands)
Above 960	500	54.00 (Average) 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-090526-09****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
5500.00	64.83	100	45			3.89	34.60	103.32			Ch. 100
5500.00				54.83	A	3.89	34.60	93.32			
5600.00	65.17	100	90			3.93	34.72	103.82			Ch. 120
5600.00				55.50	A	3.93	34.72	94.15			
5700.00	64.50	100	90			3.97	34.84	103.31			Ch. 140
5700.00				54.67	A	3.97	34.84	93.48			

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
5500.00	68.17	100	270			3.89	34.80	106.86			Ch. 100
5500.00				58.50	A	3.89	34.80	97.19			
5600.00	67.67	100	315			3.93	34.90	106.50			Ch. 120
5600.00				58.17	A	3.93	34.90	97.00			
5700.00	65.50	100	315			3.97	35.00	104.47			Ch. 140
5700.00				56.00	A	3.97	35.00	94.97			

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-090526-09**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							47.49	74.00	-26.51	Ch. 100
5460.00							43.15	74.00	-30.85	
5460.00					A		33.48	54.00	-20.52	
5460.00					A		33.15	54.00	-20.85	
5725.00	30.67	100	90		3.98	34.87	69.52	83.31	-13.79	Ch. 140

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							51.03	74.00	-22.97	Ch. 100
5460.00							46.69	74.00	-27.31	
5460.00					A		37.35	54.00	-16.65	
5460.00					A		37.02	54.00	-16.98	
5725.00	30.50	100	315		3.98	35.03	69.50	84.47	-14.97	Ch. 140

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

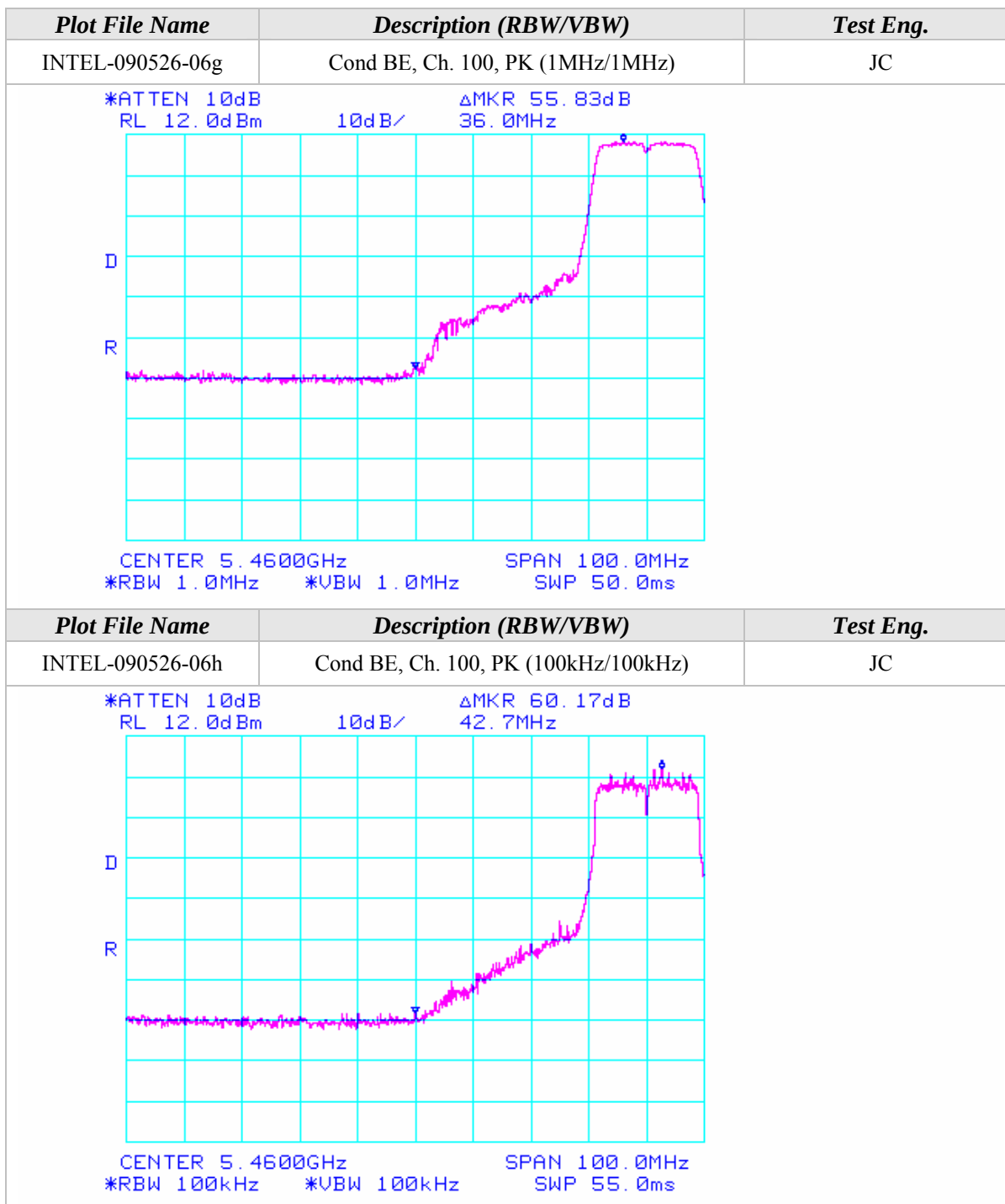
BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

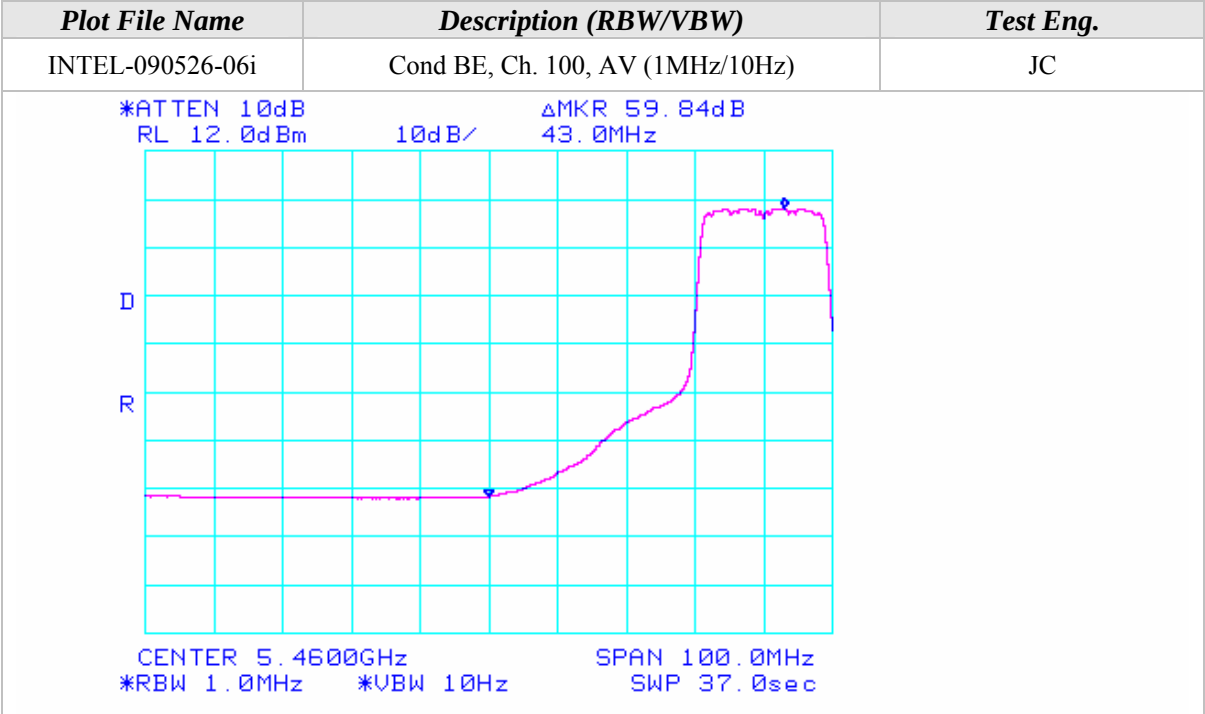


Band-Edge Plots (Continued)





Band-Edge Plots (Continued)





Radiated Emissions Test Results (Continued)

Fundamental Measurements in 802.11n mode 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-090526-11

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
5500.00	65.17	100	315			3.89	34.60	103.66			Ch. 100
5500.00				55.50	A	3.89	34.60	93.99			
5600.00	64.83	100	315			3.93	34.72	103.48			Ch. 120
5600.00				55.17	A	3.93	34.72	93.82			
5700.00	63.00	100	315			3.97	34.84	101.81			Ch. 140
5700.00				53.50	A	3.97	34.84	92.31			

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
5500.00	64.17	100	0			3.89	34.80	102.86			Ch. 100
5500.00				54.67	A	3.89	34.80	93.36			
5600.00	65.50	100	315			3.93	34.90	104.33			Ch. 120
5600.00				56.83	A	3.93	34.90	95.66			
5700.00	63.33	100	315			3.97	35.00	102.30			Ch. 140
5700.00				53.67	A	3.97	35.00	92.64			

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-090526-11

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							58.83	74.00	-15.17	Ch. 100
5460.00							53.16	74.00	-20.84	
5460.00					A		41.82	54.00	-12.18	
5460.00					A		43.49	54.00	-10.51	
5725.00	33.67	100	315		3.98	34.87	72.52	81.81	-9.29	Ch. 140

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							58.03	74.00	-15.97	Ch. 100
5460.00							52.36	74.00	-21.64	
5460.00					A		41.19	54.00	-12.81	
5460.00					A		42.86	54.00	-11.14	
5725.00	33.67	100	315		3.98	35.03	72.67	82.30	-9.63	Ch. 140

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

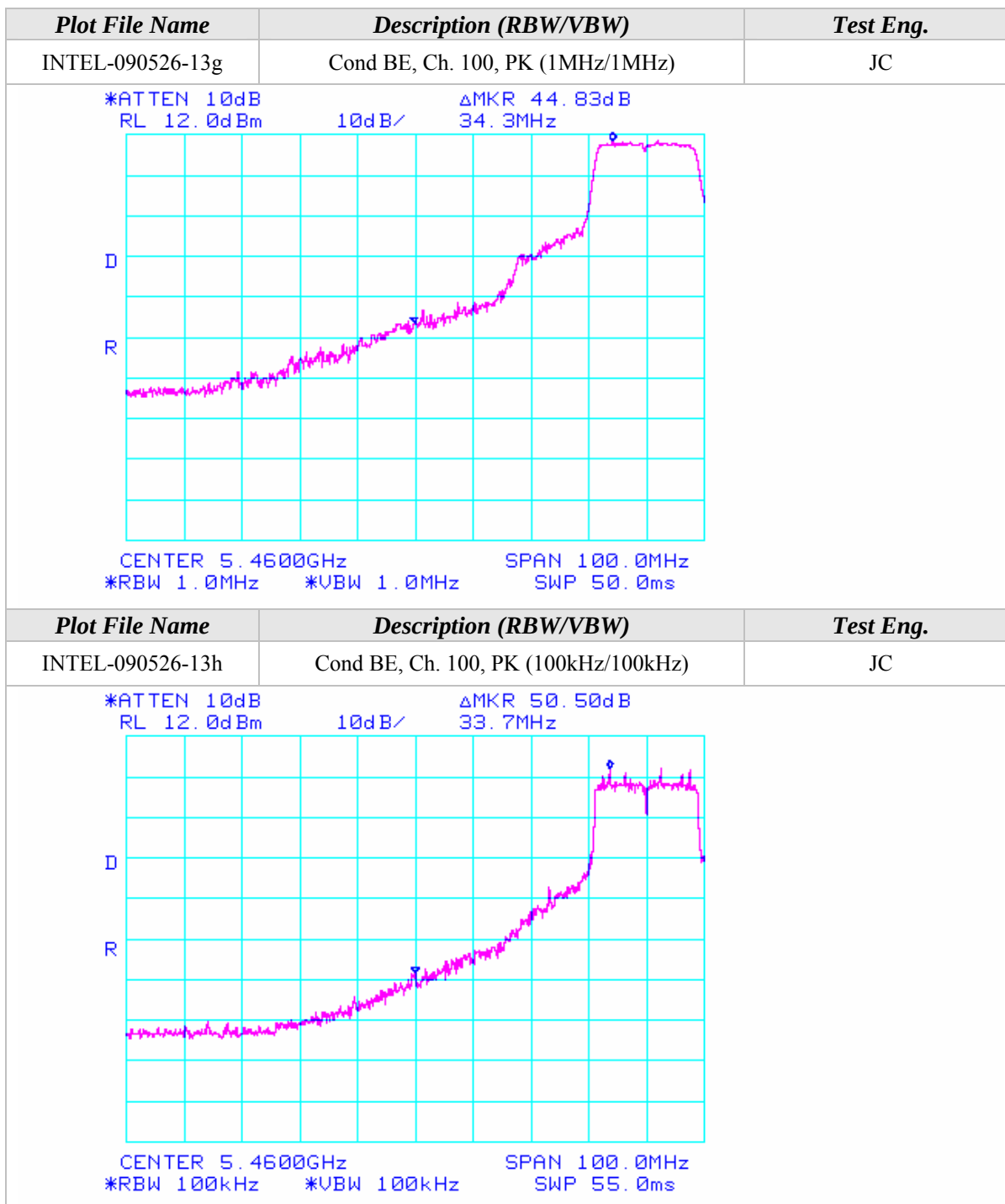
BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

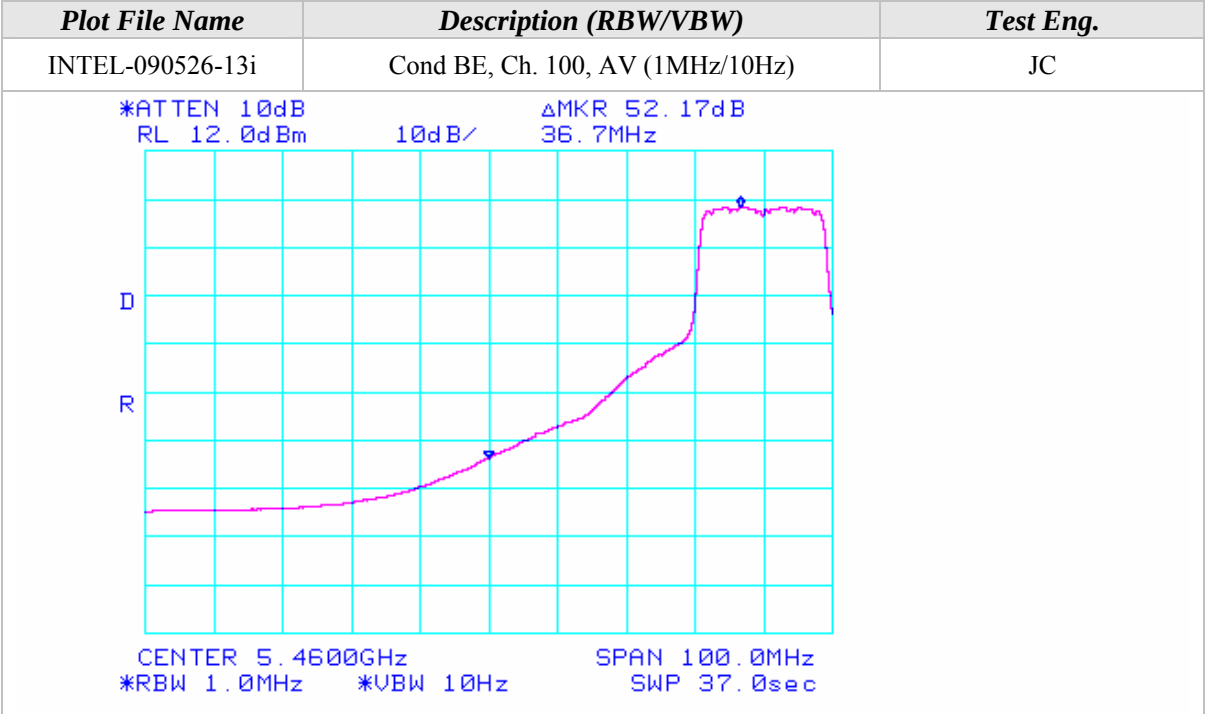


Band-Edge Plots (Continued)





Band-Edge Plots (Continued)





Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11n mode 20MHz Wide (5470-5725 MHz)
Channels 100, 120, & 140
Continuous TX at Chain C Antenna port with Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090526-13*

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
5500.00	65.50	100	45			3.89	34.60	103.99		
5500.00				55.50	A	3.89	34.60	93.99		
5600.00	66.00	100	90			3.93	34.72	104.65		
5600.00				56.17	A	3.93	34.72	94.82		
5700.00	65.17	100	90			3.97	34.84	103.98		
5700.00				55.33	A	3.97	34.84	94.14		

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
5500.00	67.50	100	270			3.89	34.80	106.19		
5500.00				57.67	A	3.89	34.80	96.36		
5600.00	66.33	100	315			3.93	34.90	105.16		
5600.00				57.17	A	3.93	34.90	96.00		
5700.00	65.83	100	315			3.97	35.00	104.80		
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 C Antenna port with Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090526-13

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							56.99	74.00	-17.01	Ch. 100
5460.00							48.15	74.00	-25.85	
5460.00					A		38.16	54.00	-15.84	
5460.00					A		38.15	54.00	-15.85	
5725.00	31.33	100	90		3.98	34.87	70.18	83.98	-13.80	Ch. 140

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							59.19	74.00	-14.81	Ch. 100
5460.00							50.35	74.00	-23.65	
5460.00					A		40.53	54.00	-13.47	
5460.00					A		40.52	54.00	-13.48	
5725.00	32.17	100	315		3.98	35.03	71.17	84.80	-13.63	Ch. 140

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

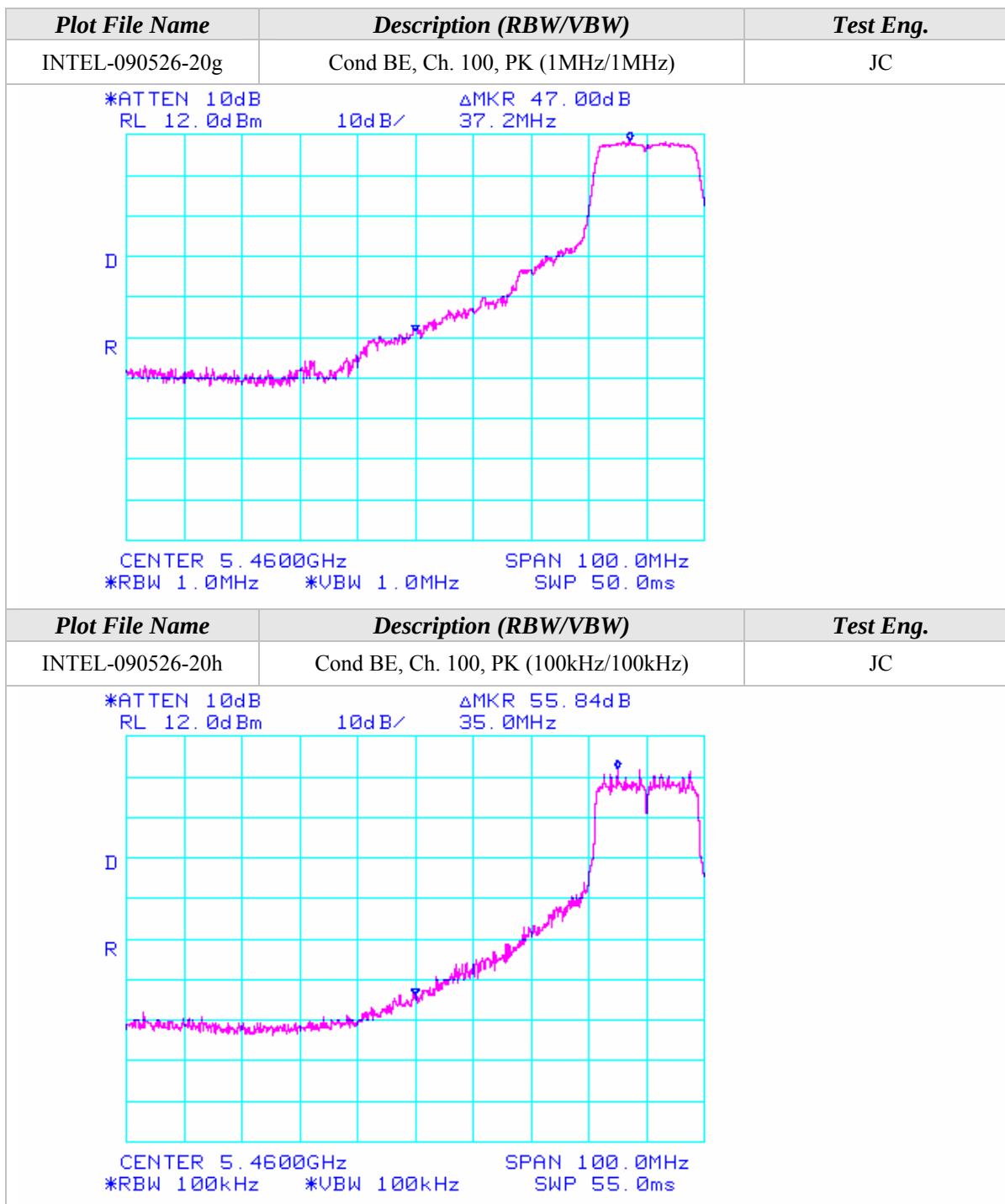
BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

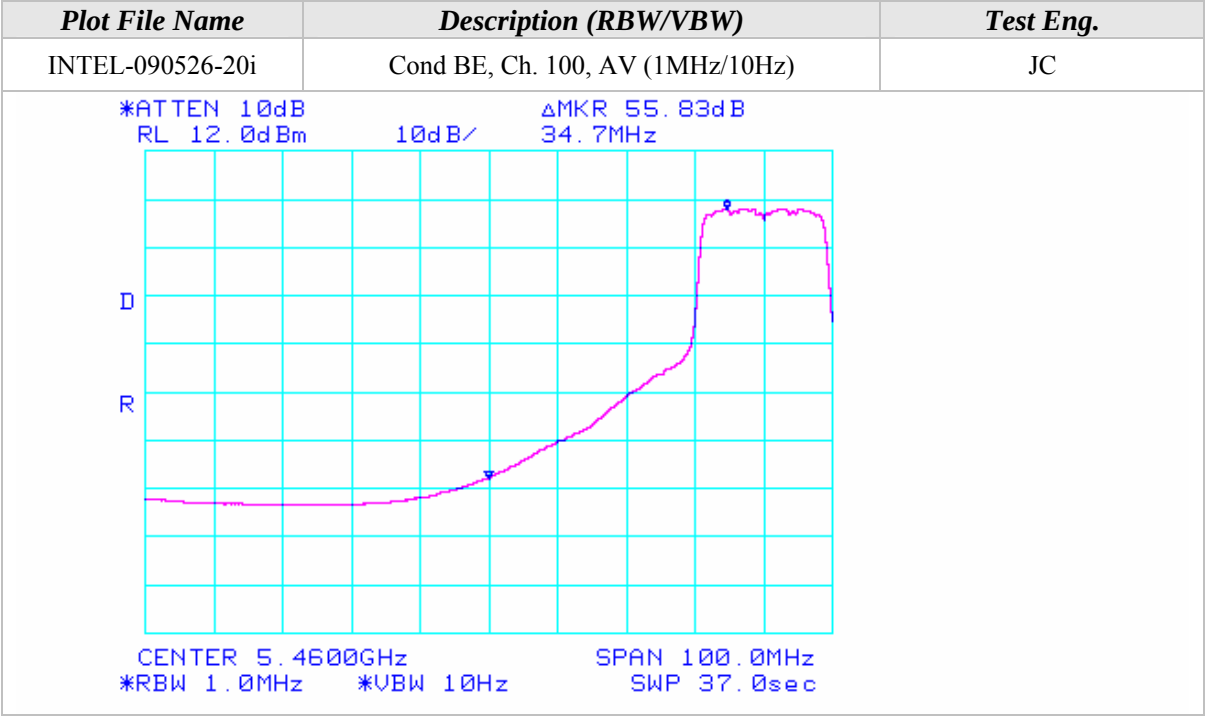


Band-Edge Plots (Continued)





Band-Edge Plots (Continued)





Radiated Emissions Test Results (Continued)

Spurious Emissions Measurements in 802.11n mode 20MHz Wide (5470-5725 MHz)
Channels 100, 120, & 140
Continuous TX at Chain A, B, & C Antenna ports with Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090526-18

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	Ch. 120/
3733.33		100	315	42.73	A	47.55	3.19	33.08	31.45	54.00	-22.55	A
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	Ch. 120/
3733.33		100	315	43.30	A	47.55	3.19	33.08	32.02	54.00	-21.98	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	
3733.33	53.33	100	315			47.55	3.19	33.08	42.05	74.00	-31.95	Ch. 120/
3733.33		100	315	42.73	A	47.55	3.19	33.08	31.45	54.00	-22.55	C
7466.66	54.17	100	0			45.68	4.60	35.71	48.79	74.00	-25.21	
7466.66		100	0	45.94	A	45.68	4.60	35.71	40.56	54.00	-13.44	
3666.66	54.00	100	315			47.58	3.17	33.00	42.59	74.00	-31.41	Ch. 100/
3666.66		100	315	42.50	A	47.58	3.17	33.00	31.09	54.00	-22.91	A
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	Ch. 140/
3800.00		100	0	41.08	A	47.54	3.24	33.16	29.94	54.00	-24.06	A
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 Test Results (Continued)

RADIATED EMISSIONS - Vertical Antenna Polarization												
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Preamplifier 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	Ch. 120/
3733.33		100	315	42.65	A	47.55	3.19	32.97	31.26	54.00	-22.74	A
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	Ch. 120/
3733.33		100	315	43.51	A	47.55	3.19	32.97	32.12	54.00	-21.88	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	
3733.33	53.83	100	315			47.55	3.19	32.97	42.44	74.00	-31.56	Ch. 120/
3733.33		100	315	42.34	A	47.55	3.19	32.97	30.95	54.00	-23.05	C
7466.66	54.83	100				45.68	4.60	35.69	49.44	74.00	-24.56	
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	Ch. 100/
3666.66		100	315	43.23	A	47.58	3.17	32.87	31.69	54.00	-22.31	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	Ch. 140/
3800.00		100	45	43.16	A	47.54	3.24	33.08	31.94	54.00	-22.06	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 Triple Chain ABC Antenna ports with Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090526-18

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
3666.66	54.83	100	225			50.75	3.17	33.00	40.25	74.00	-33.75	Ch. 100/
3666.66				42.24	A	50.75	3.17	33.00	27.66	54.00	-26.34	ABC
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	Ch. 120/
3733.33				40.95	A	50.76	3.19	33.08	26.46	54.00	-27.54	ABC
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	Ch. 140/
3800.00				43.55	A	50.68	3.24	33.16	29.27	54.00	-24.73	ABC
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	

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
3666.66	57.33	100	180			50.75	3.17	33.07	42.82	74.00	-31.18	Ch. 100/
3666.66				48.75	A	50.75	3.17	33.07	34.24	54.00	-19.76	ABC
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	Ch. 120/
3733.33				43.26	A	50.76	3.19	33.13	28.83	54.00	-25.17	ABC
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	Ch. 140/
3800.00				46.59	A	50.68	3.24	33.20	32.35	54.00	-21.65	ABC
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**

CLIENT:	Intel Corporation	DATE:	06/25/09
EUT:	Intel® Centrino® Ultimate-N 6300	PROJECT NUMBER:	INTEL-090526
MODEL NUMBER:	633ANHMW	TEST ENGINEER:	JC
SERIAL NUMBER:	0015005A17C0	SITE #:	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot in 802.11n (5740-5745 MHz) mode 40MHz Wide.	TEMPERATURE:	27° C
		HUMIDITY:	44% RH
		TIME:	3:00 PM

Description:	Radiated RF Emissions (1 GHz – 18 GHz)
Results:	PASSED Horizontal and Vertical Antenna Polarizations Class B Limits
Note:	Radiated Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. • 120VAC / 60 Hz.

Unwanted Spurious Emissions Limits			
Frequency (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m) (Emissions in the restricted bands)	Field Strength (dBm/MHz) (Emissions outside the restricted bands)
Above 960	500	54.00 (Average) 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-090526-09****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
5510.00	63.67	100	45			3.89	34.61	102.18			Ch. 102
5510.00				54.83	A	3.89	34.61	93.34			
5590.00	62.50	100	45			3.92	34.71	101.13			Ch. 118
5590.00				53.00	A	3.92	34.71	91.63			
5670.00	61.50	100	45			3.95	34.80	100.26			Ch. 134
5670.00				52.00	A	3.95	34.80	90.76			

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
5510.00	64.67	100	315			3.89	34.81	103.37			Ch. 102
5510.00				54.33	A	3.89	34.81	93.03			
5590.00	62.50	100	315			3.92	34.89	101.31			Ch. 118
5590.00				52.67	A	3.92	34.89	91.48			
5670.00	61.33	100	315			3.95	34.97	100.25			Ch. 134
5670.00				51.83	A	3.95	34.97	90.75			

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-090526-09**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							58.18	74.00	-15.82	Ch. 102
5460.00							52.85	74.00	-21.15	
5460.00				A			42.51	54.00	-11.49	
5460.00				A			44.01	54.00	-9.99	
5725.00	31.50	100	45		3.98	34.87	70.35	80.26	-9.91	Ch. 134

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							59.37	74.00	-14.63	Ch. 102
5460.00							54.04	74.00	-19.96	
5460.00				A			42.20	54.00	-11.80	
5460.00				A			43.70	54.00	-10.30	
5725.00	30.50	100	315		3.98	35.03	69.50	80.25	-10.75	Ch. 134

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

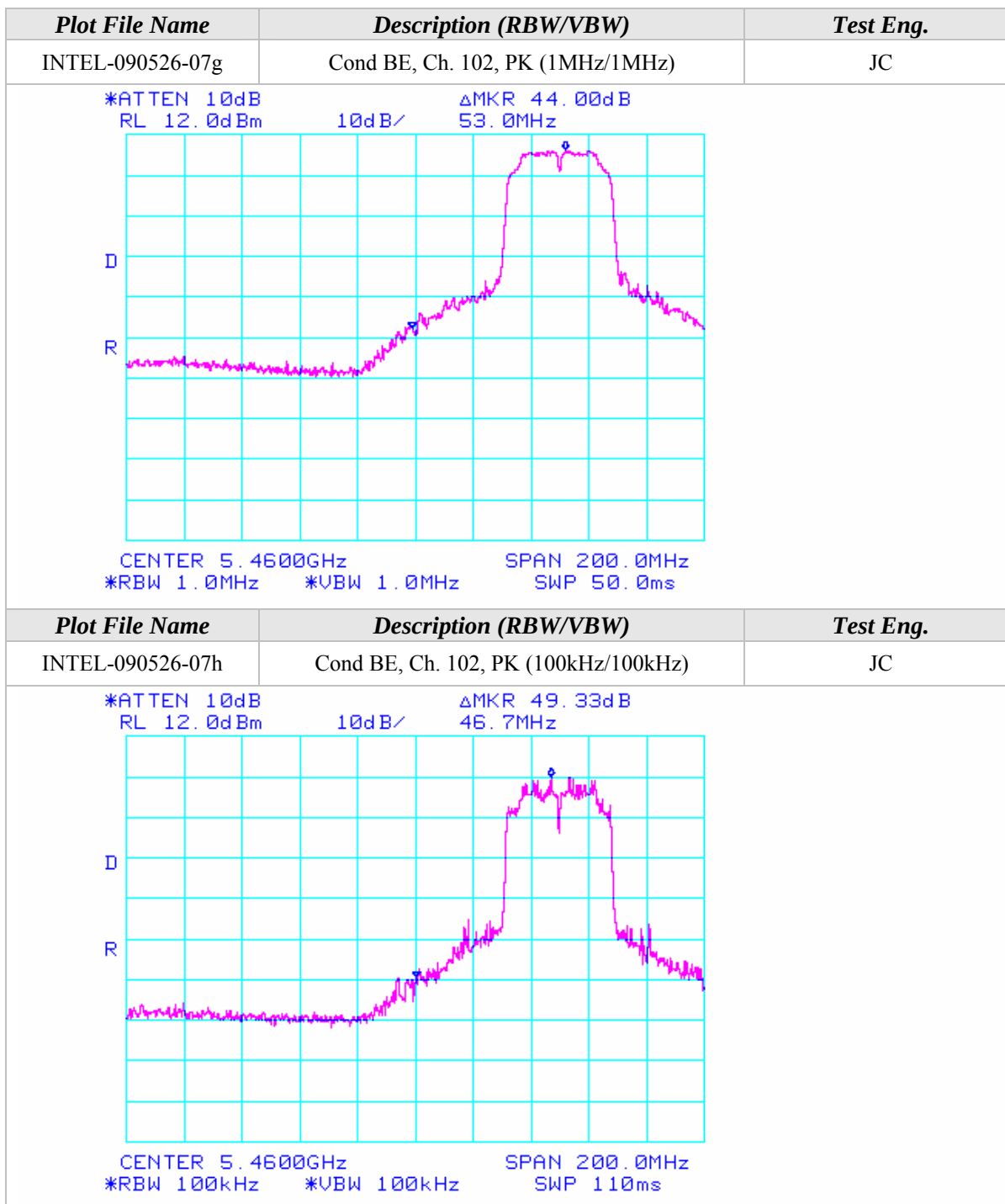
BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

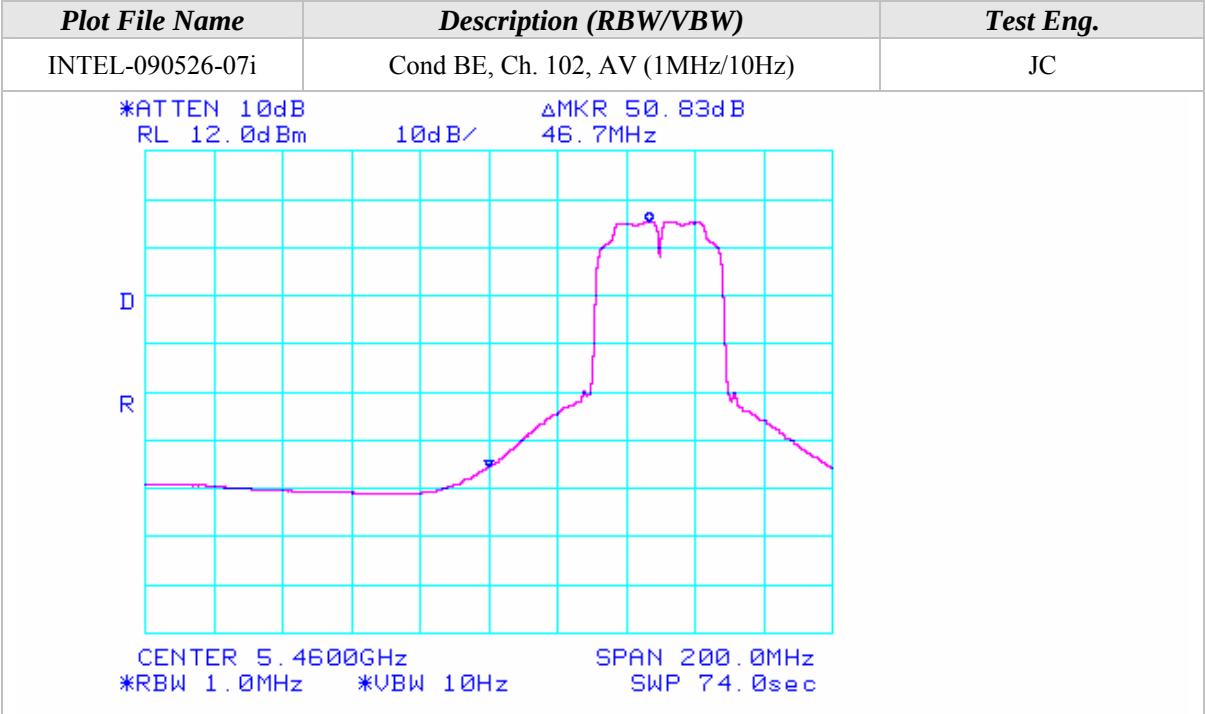


Band-Edge Plots (Continued)





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-090526-11****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
5510.00	62.67	100	315			3.89	34.61	101.18			Ch. 102
5510.00				51.83	A	3.89	34.61	90.34			
5590.00	63.83	100	0			3.92	34.71	102.46			Ch. 118
5590.00				53.50	A	3.92	34.71	92.13			
5670.00	60.00	100	315			3.95	34.80	98.76			Ch. 134
5670.00				50.33	A	3.95	34.80	89.09			

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
5510.00	62.00	100	90			3.89	34.81	100.70			Ch. 102
5510.00				51.67	A	3.89	34.81	90.37			
5590.00	62.17	100	90			3.92	34.89	100.98			Ch. 118
5590.00				52.00	A	3.92	34.89	90.81			
5670.00	58.33	100	315			3.95	34.97	97.25			Ch. 134
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-090526-11****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							62.18	74.00	-11.82	Ch. 102
5460.00							61.68	74.00	-12.32	
5460.00					A		47.84	54.00	-6.16	
5460.00					A		50.84	54.00	-3.16	
5725.00	31.83	100	315		3.98	34.87	70.68	78.76	-8.08	Ch. 134

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							61.70	74.00	-12.30	Ch. 102
5460.00							61.20	74.00	-12.80	
5460.00					A		47.87	54.00	-6.13	
5460.00					A		50.87	54.00	-3.13	
5725.00	30.33	100	315		3.98	35.03	69.33	77.25	-7.92	Ch. 134

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

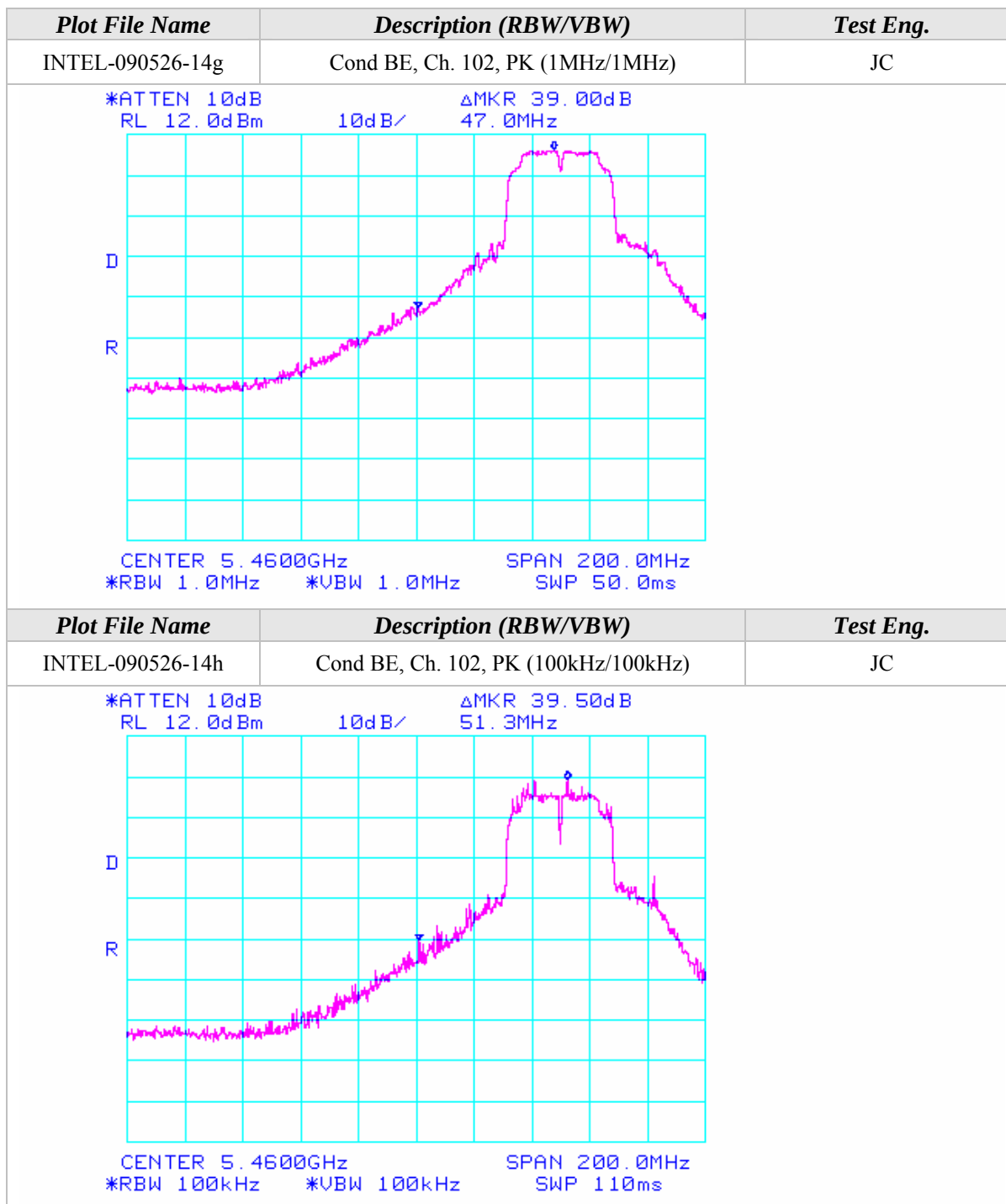
BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

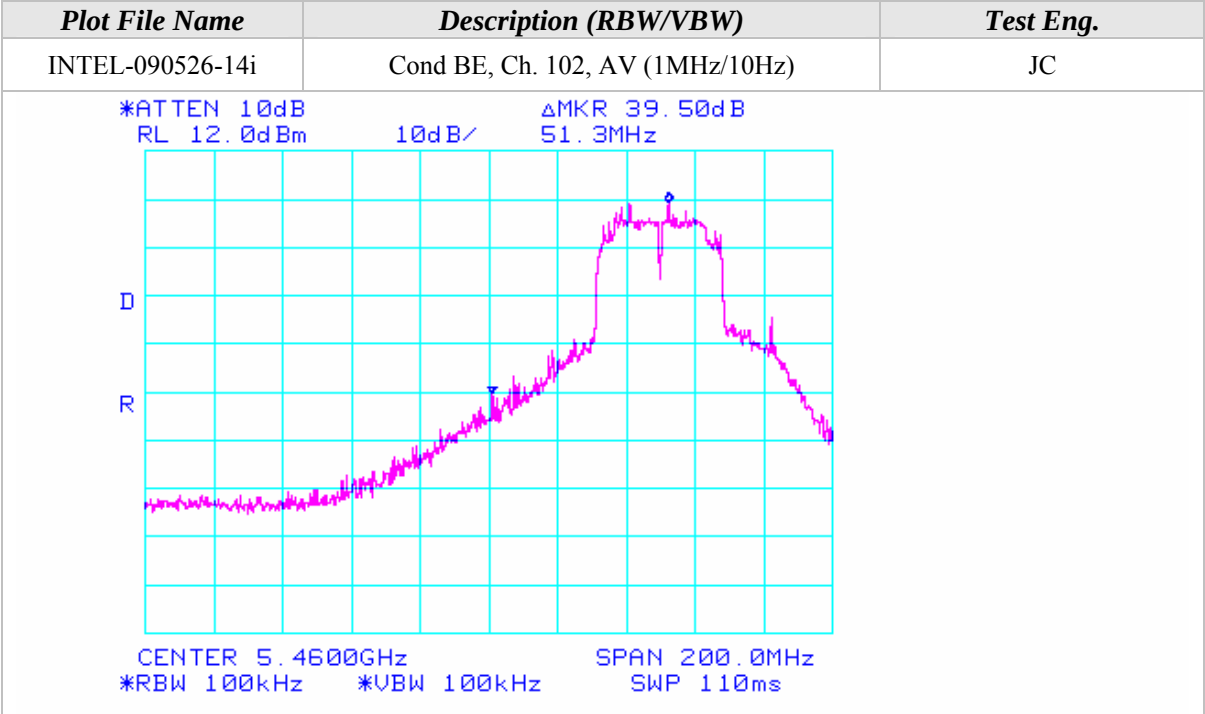


Band-Edge Plots (Continued)





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 C Antenna port with Shanghai Universe Antennas****Aegis Labs, Inc. File #: INTEL-090526-13****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
5510.00	61.83	100	45			3.89	34.61	100.34			Ch. 102
5510.00				52.33	A	3.89	34.61	90.84			
5590.00	63.00	100	45			3.92	34.71	101.63			Ch. 118
5590.00				53.50	A	3.92	34.71	92.13			
5670.00	61.67	100	45			3.95	34.80	100.43			Ch. 134
5670.00				52.33	A	3.95	34.80	91.09			

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
5510.00	61.17	100	315			3.89	34.81	99.87			Ch. 102
5510.00				51.17	A	3.89	34.81	89.87			
5590.00	62.50	100	315			3.92	34.89	101.31			Ch. 118
5590.00				52.33	A	3.92	34.89	91.14			
5670.00	60.83	100	315			3.95	34.97	99.75			Ch. 134
5670.00				50.67	A	3.95	34.97	89.59			

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 C Antenna port with Shanghai Universe Antennas****Aegis Labs, Inc. File #: INTEL-090526-13****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							61.17	74.00	-12.83	Ch. 102
5460.00							57.18	74.00	-16.82	
5460.00					A		46.68	54.00	-7.32	
5460.00					A		47.68	54.00	-6.32	
5725.00	31.33	100	45		3.98	34.87	70.18	80.43	-10.25	Ch. 134

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							60.70	74.00	-13.30	Ch. 102
5460.00							56.71	74.00	-17.29	
5460.00					A		45.71	54.00	-8.29	
5460.00					A		46.71	54.00	-7.29	
5725.00	31.17	100	315		3.98	35.03	70.17	79.75	-9.58	Ch. 134

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

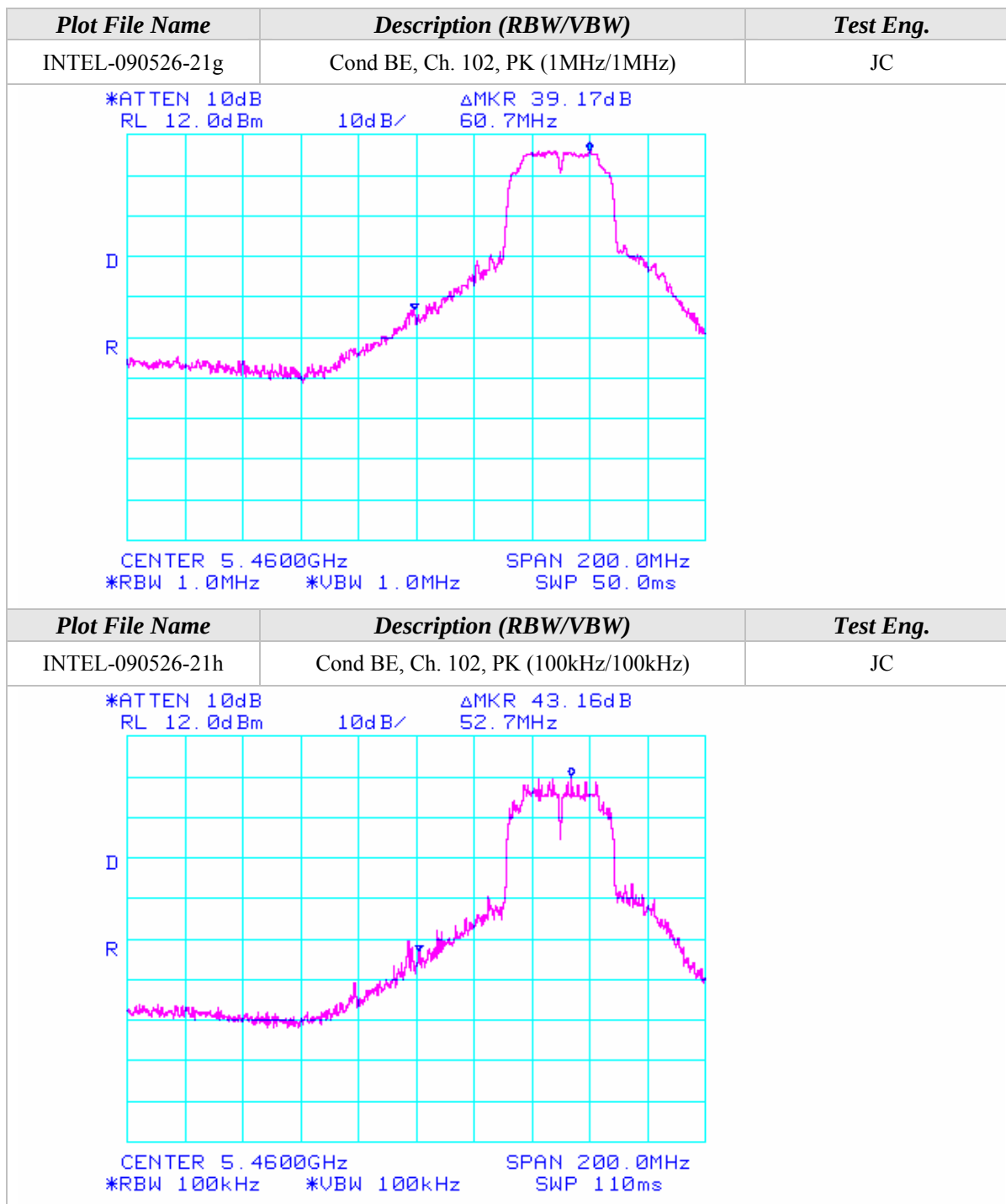
BE = Band Edge Field Strength

F_m = Measured Fundamental (Peak or Average)

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

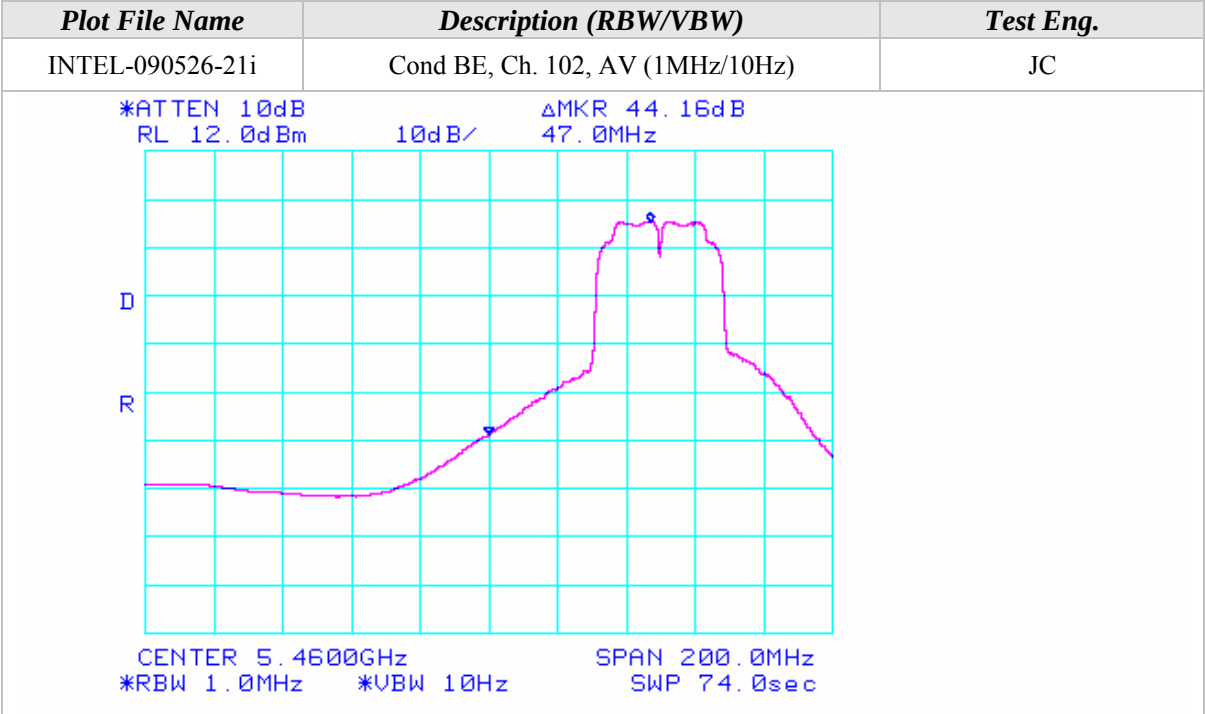


Band-Edge Plots (Continued)





Band-Edge Plots (Continued)





Radiated Emissions Test Results (Continued)

Spurious Emissions Measurements in 802.11n mode 40MHz Wide (5470-5725 MHz)
Channels 102, 118, & 134
Continuous TX at Chain A, B, & C Antenna ports with Shanghai Universe Antennas
Aegis Labs, Inc. File #: INTEL-090526-18

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	Ch. 118/
3733.33				42.17	A	46.55	2.53	32.91	31.06	54.00	-22.94	A
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	Ch. 118/
3733.33				46.87	A	46.55	2.53	32.91	35.76	54.00	-18.24	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	
3733.33	52.83	100	225			46.55	2.53	32.91	41.72	74.00	-32.28	Ch. 118/
3733.33				41.26	A	46.55	2.53	32.91	30.15	54.00	-23.85	C
7466.66	53.00	100	225			44.88	3.63	37.21	48.97	74.00	-25.03	
7466.66				42.54	A	44.88	3.63	37.21	38.51	54.00	-15.49	
3666.66	54.83	100	225			46.56	2.50	32.77	43.53	74.00	-30.47	Ch. 102/
3666.66				42.24	A	46.56	2.50	32.77	30.94	54.00	-23.06	A
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	Ch. 134/
3800.00				43.55	A	46.54	2.55	33.06	32.63	54.00	-21.37	A
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 Test Results (Continued)

RADIATED EMISSIONS - Vertical Antenna Polarization												
Freq. (MHz)	Meter Reading (dBuV)	Antenna Height (cm)	Azimuth (degrees)	Quasi pk or AVG (dBuV)		Preamplifier 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	Ch. 118/
3733.33				42.63	A	46.55	2.53	32.51	31.11	54.00	-22.89	A
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	Ch. 118/
3733.33				49.15	A	46.55	2.53	32.51	37.63	54.00	-16.37	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	
3733.33	54.17	100	180			46.55	2.53	32.51	42.65	74.00	-31.35	Ch. 118/
3733.33				44.46	A	46.55	2.53	32.51	32.94	54.00	-21.06	C
7466.66	53.00	100	180			44.88	3.63	37.11	48.87	74.00	-25.13	
7466.66				46.73	A	44.88	3.63	37.11	42.60	54.00	-11.40	
3666.66	57.33	100	180			46.56	2.50	32.33	45.60	74.00	-28.40	Ch. 102/
3666.66				48.75	A	46.56	2.50	32.33	37.02	54.00	-16.98	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	Ch. 134/
3800.00				46.59	A	46.54	2.55	32.68	35.29	54.00	-18.71	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 Triple Chain ABC Antenna ports with Shanghai Universe Antennas

Aegis Labs, Inc. File #: INTEL-090526-18

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
3673.33	52.67	100	45			47.58	3.17	33.01	41.27	68.00	-26.73	Ch. 102/
3673.33		100	45	40.62		47.58	3.17	33.01	29.22	74.00	-44.78	ABC
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	Ch. 118/
3726.66		100	45	41.44	A	47.55	3.19	33.07	30.15	54.00	-23.85	ABC
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	Ch. 134/
3780.00		100	0	40.71	A	47.54	3.23	33.14	29.53	54.00	-24.47	ABC
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	

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
3673.33	52.67	100	315			47.58	3.17	32.88	41.14	74.00	-32.86	Ch. 102/
3673.33		100	315	40.71	A	47.58	3.17	32.88	29.18	54.00	-24.82	ABC
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	Ch. 118/
3726.66		100	315	43.51	A	47.55	3.19	32.96	32.11	54.00	-21.89	ABC
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	Ch. 134/
3780.00		100	0	40.99	A	47.54	3.23	33.05	29.72	54.00	-24.28	ABC
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**

CLIENT:	Intel Corporation	DATE:	06/22/09
EUT:	Intel® Centrino® Ultimate-N 6300	PROJECT NUMBER:	INTEL-090526
MODEL NUMBER:	633ANHMW	TEST ENGINEER:	JC
SERIAL NUMBER:	0015005A17C0	SITE #:	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot	TEMPERATURE:	26 deg. C
		HUMIDITY:	39% RH
		TIME:	1:00 PM

Description:	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 $4 \text{ dBm} + 10\log B$, where B is the 26-dB emission bandwidth in MHz. 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 $11 \text{ dBm} + 10\log B$, where B is the 26-dB emission bandwidth in MHz.
Results:	Passed (See Data Sheet)
Note:	Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. 120VAC / 60 Hz.



Maximum Conducted Output Power (Continued)

Mode	Channel	Frequency (MHz)	Chain	Data Rate (Mbps)	Total Power (dBm)	Total Power (mW)
802.11a	36	5180	A	6	16.52	44.91
802.11a	40	5200	A	6	16.56	45.33
802.11a	48	5240	A	6	16.61	45.85
802.11a	52	5260	A	6	16.47	44.40
802.11a	56	5280	A	6	16.62	45.96
802.11a	64	5320	A	6	16.45	44.19
802.11a	36	5180	B	6	16.37	43.39
802.11a	40	5200	B	6	16.45	44.19
802.11a	48	5240	B	6	16.58	45.54
802.11a	52	5260	B	6	16.42	43.89
802.11a	56	5280	B	6	16.49	44.60
802.11a	64	5320	B	6	16.45	44.19
802.11a	36	5180	C	6	16.44	44.09
802.11a	40	5200	C	6	16.42	43.89
802.11a	48	5240	C	6	16.63	46.06
802.11a	52	5260	C	6	16.56	45.33
802.11a	56	5280	C	6	16.47	44.40
802.11a	64	5320	C	6	16.40	43.69
802.11n	36	5180	A	HT0	16.60	45.75
802.11n	40	5200	A	HT0	16.55	45.22
802.11n	48	5240	A	HT0	16.36	43.29
802.11n	52	5260	A	HT0	16.53	45.02
802.11n	56	5280	A	HT0	16.42	43.89
802.11n	64	5320	A	HT0	16.61	45.85
802.11n	36	5180	B	HT0	16.57	45.43
802.11n	40	5200	B	HT0	16.55	45.22
802.11n	48	5240	B	HT0	16.43	43.99
802.11n	52	5260	B	HT0	16.49	44.60
802.11n	56	5280	B	HT0	16.41	43.79
802.11n	64	5320	B	HT0	16.48	44.50
802.11n	36	5180	C	HT0	16.56	45.33
802.11n	40	5200	C	HT0	16.58	45.54
802.11n	48	5240	C	HT0	16.51	44.81
802.11n	52	5260	C	HT0	16.49	44.60
802.11n	56	5280	C	HT0	16.62	45.96
802.11n	64	5320	C	HT0	16.46	44.30

NOTE: The output power measurement is conducted.



Maximum Conducted Output Power (Continued)

Mode	Channel	Frequency (MHz)	Chain	Data Rate (Mbps)	Total Power (dBm)	Total Power (mW)
802.11a	100	5500	A	6	16.49	44.60
802.11a	120	5600	A	6	16.60	45.75
802.11a	140	5700	A	6	16.57	45.43
802.11a	100	5500	B	6	16.36	43.29
802.11a	120	5600	B	6	16.48	44.50
802.11a	140	5700	B	6	16.44	44.09
802.11a	100	5500	C	6	16.42	43.89
802.11a	120	5600	C	6	16.47	44.40
802.11a	140	5700	C	6	16.56	45.33
802.11n	100	5500	A	HT0	16.53	45.02
802.11n	120	5600	A	HT0	16.50	44.71
802.11n	140	5700	A	HT0	16.59	45.64
802.11n	100	5500	B	HT0	16.55	45.22
802.11n	120	5600	B	HT0	16.41	43.79
802.11n	140	5700	B	HT0	16.47	44.40
802.11n	100	5500	C	HT0	16.55	45.22
802.11n	120	5600	C	HT0	16.48	44.50
802.11n	140	5700	C	HT0	16.63	46.06
802.11n (40MHz)	38(F)	5190	A	HT0	16.65	46.21
802.11n (40MHz)	46(F)	5230	A	HT0	16.43	43.93
802.11n (40MHz)	54(F)	5270	A	HT0	16.56	45.27
802.11n (40MHz)	62(F)	5310	A	HT0	16.50	44.65
802.11n (40MHz)	38(F)	5190	B	HT0	16.65	46.21
802.11n (40MHz)	46(F)	5230	B	HT0	16.61	45.79
802.11n (40MHz)	54(F)	5270	B	HT0	16.52	44.85
802.11n (40MHz)	62(F)	5310	B	HT0	16.49	44.54
802.11n (40MHz)	38(F)	5190	C	HT0	16.50	44.65
802.11n (40MHz)	46(F)	5230	C	HT0	16.66	46.32
802.11n (40MHz)	54(F)	5270	C	HT0	16.53	44.95
802.11n (40MHz)	62(F)	5310	C	HT0	16.65	46.21
802.11n (40MHz)	102(F)	5510	A	HT0	16.49	44.54
802.11n (40MHz)	118(F)	5590	A	HT0	16.58	45.48
802.11n (40MHz)	134(F)	5670	A	HT0	16.67	46.43
802.11n (40MHz)	102(F)	5510	B	HT0	16.55	45.16
802.11n (40MHz)	118(F)	5590	B	HT0	16.60	45.69
802.11n (40MHz)	134(F)	5670	B	HT0	16.64	46.11
802.11n (40MHz)	102(F)	5510	C	HT0	16.76	47.40
802.11n (40MHz)	118(F)	5590	C	HT0	16.57	45.37
802.11n (40MHz)	134(F)	5670	C	HT0	16.52	44.85

NOTE: The output power measurement is conducted.



Maximum Conducted Output Power (Continued)

Triple Chain ABC Aggregate Power

Mode	Channel	Frequency (MHz)	Chain	Data Rate (Mbps)	Total Output Power (dBm)	Total Output Power (mW)
802.11n (20MHz)	36	5180	ABC	HT16	16.44	44.01
802.11n (20MHz)	40	5200	ABC	HT16	16.46	44.29
802.11n (20MHz)	48	5240	ABC	HT16	16.45	44.16
802.11n (20MHz)	52	5260	ABC	HT16	16.53	44.94
802.11n (20MHz)	56	5280	ABC	HT16	16.33	42.90
802.11n (20MHz)	64	5320	ABC	HT16	16.54	45.03
802.11n (40MHz)	38(F)	5190	ABC	HT16	16.52	44.86
802.11n (40MHz)	46(F)	5230	ABC	HT16	16.44	44.09
802.11n (40MHz)	54(F)	5270	ABC	HT16	16.57	45.35
802.11n (40MHz)	62(F)	5310	ABC	HT16	16.52	44.83
802.11n (20MHz)	100	5500	ABC	HT16	16.45	44.13
802.11n (20MHz)	120	5600	ABC	HT16	16.38	43.40
802.11n (20MHz)	140	5700	ABC	HT16	16.50	44.62
802.11n (40MHz)	102(F)	5510	ABC	HT16	16.57	45.36
802.11n (40MHz)	118(F)	5590	ABC	HT16	16.47	44.40
802.11n (40MHz)	134(F)	5670	ABC	HT16	16.44	44.01

(F) = Fat Channel

**CONDUCTED BAND EDGE EMISSIONS TEST RESULTS**

CLIENT:	Intel Corporation	DATE:	07/22/09
EUT:	Intel® Centrino® Ultimate-N 6300	PROJECT NUMBER:	INTEL-090526
MODEL NUMBER:	633ANHMW	TEST ENGINEER:	JC
SERIAL NUMBER:	0015005A17C0	SITE #:	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot	TEMPERATURE:	23 deg. C
		HUMIDITY:	51% RH
		TIME:	10:00 AM

Description:	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.
Results:	See Data Sheet
Note:	Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. • 120VAC / 60 Hz.

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



Conducted Band Edge Emissions Test Results (Continued)

CONDCUTED BAND EDGE EMISSIONS TEST RESULTS							
Freq.(MHz)	TX Chain	Power Spec Den. Reading (dBm/MHz)	Antenna Gain (dBi)	Corrected Reading (dBm/MHz)	Limits (dBm/MHz)	Diff (dB) +=FAIL	Comments
802.11a							
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
5250.00	C	-33.17	2.57	-30.60	-27.00	-3.60	Tx @ 5240 MHz
5250.00	C	-34.29	2.57	-31.72	-27.00	-4.72	Tx @ 5260 MHz
802.11n (20MHz Wide)							
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
5250.00	C	-32.52	2.57	-29.95	-27.00	-2.95	Tx @ 5240 MHz
5250.00	C	-32.46	2.57	-29.89	-27.00	-2.89	Tx @ 5260 MHz
802.11n (40MHz Wide)							
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
5250.00	C	-43.85	2.57	-41.28	-27.00	-14.28	Tx @ 5240 MHz
5250.00	C	-42.39	2.57	-39.82	-27.00	-12.82	Tx @ 5260 MHz



Conducted Band Edge Emissions Test Results (Continued)

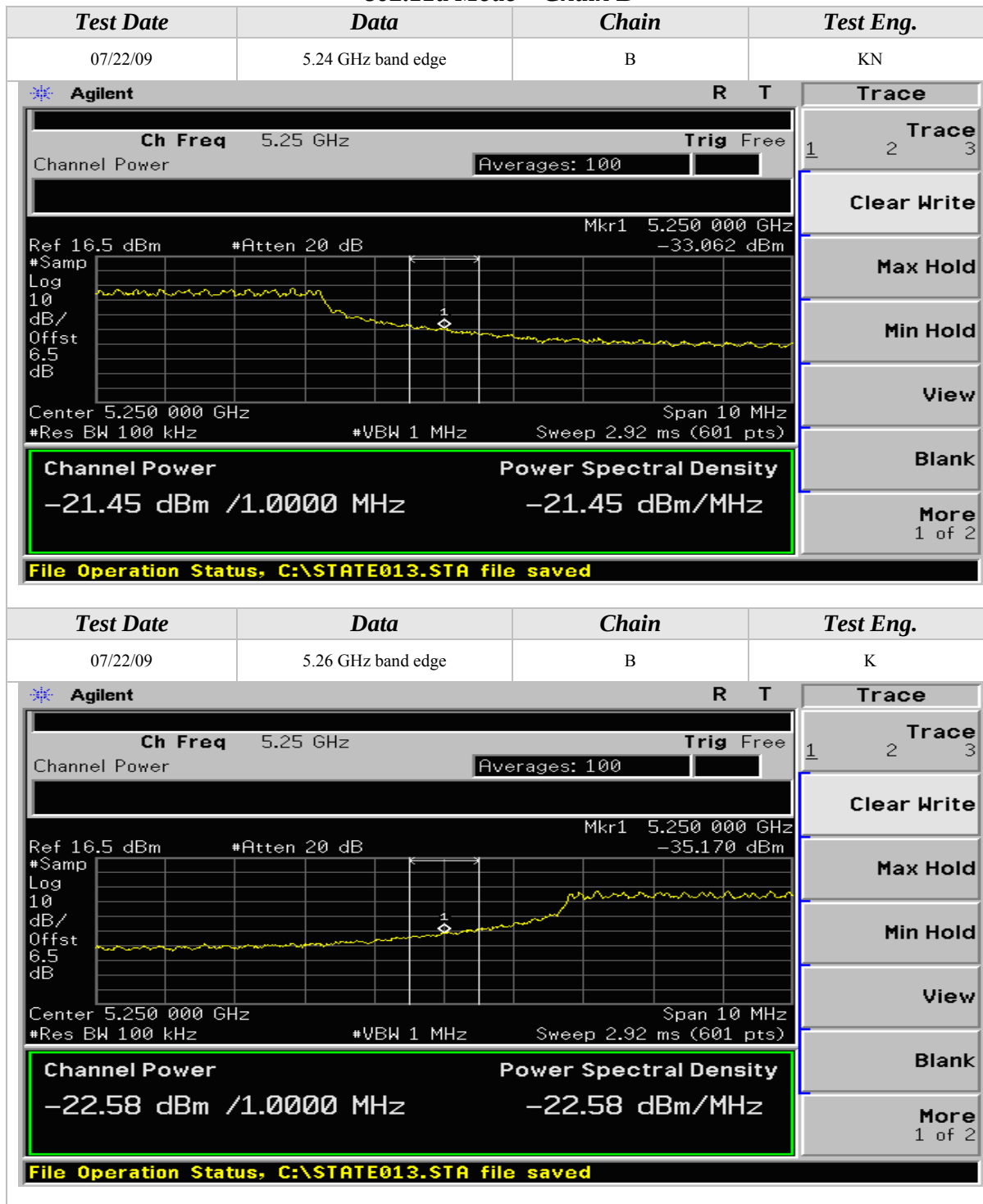
802.11a Mode – Chain A





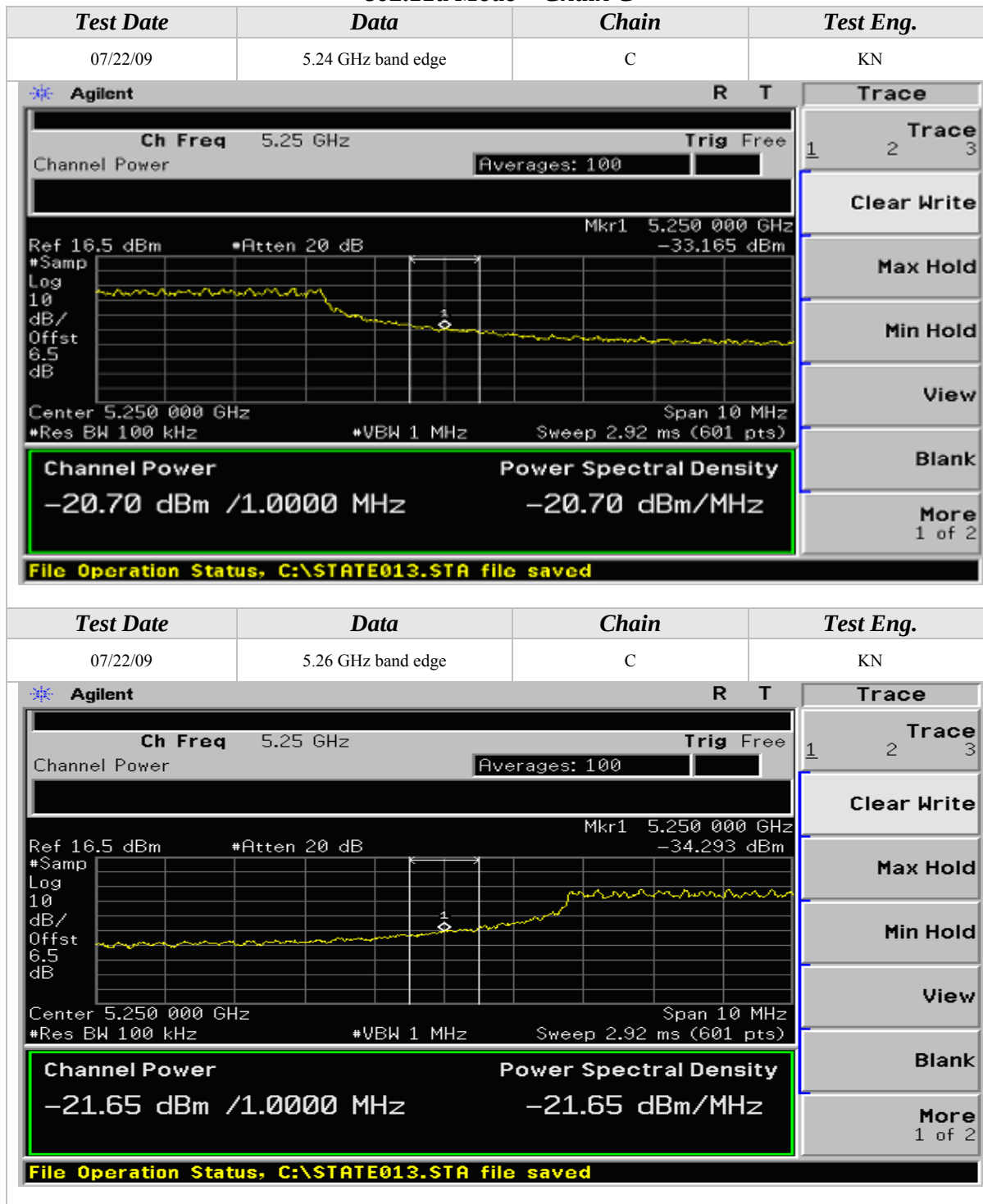
Conducted Band Edge Emissions Test Results (Continued)

802.11a Mode – Chain B





Conducted Band Edge Emissions Test Results (Continued)

802.11a Mode – Chain C



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 (20 MHz Wide)





Conducted Band Edge Emissions Test Results (Continued)

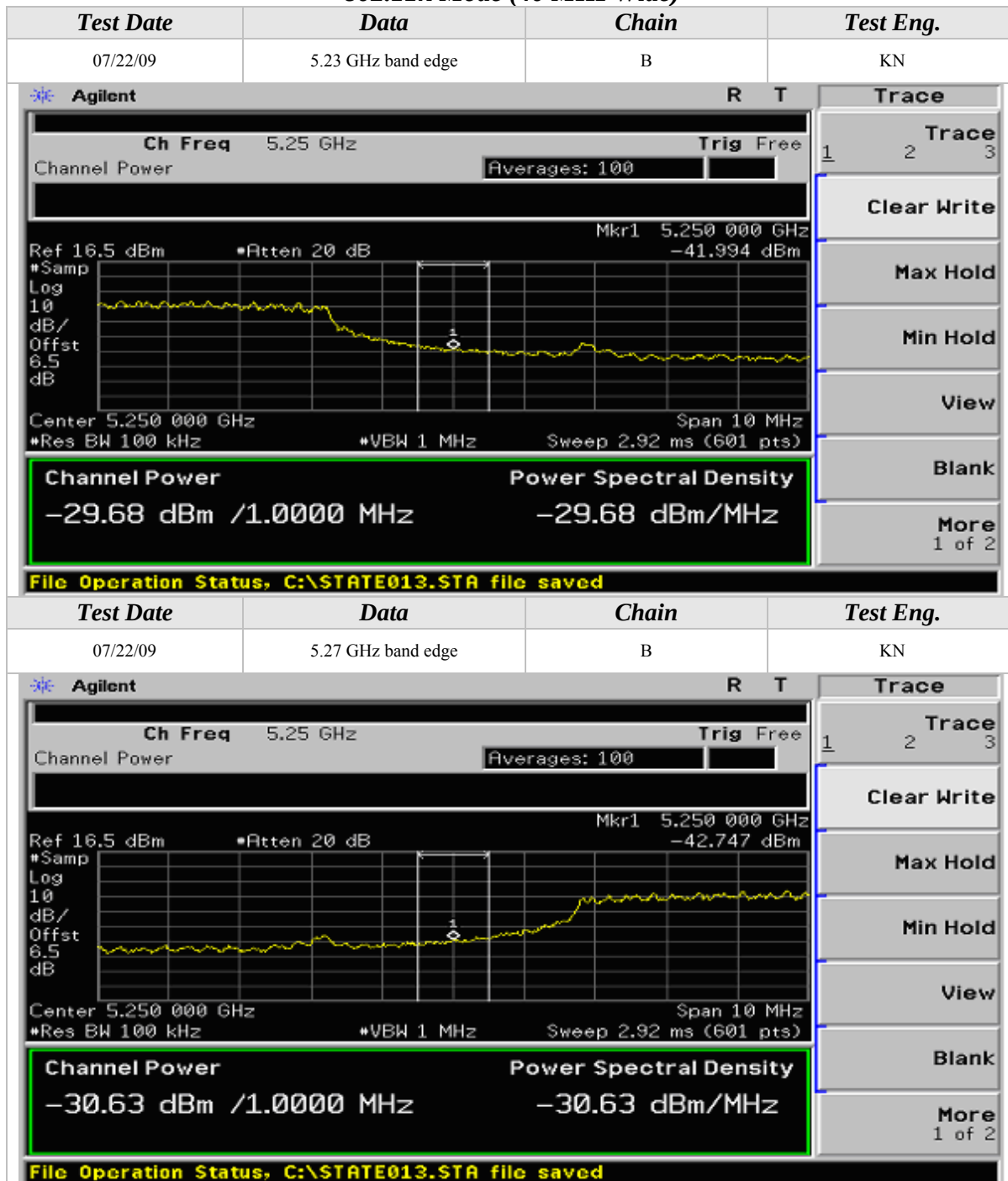
802.11n Mode (40 MHz Wide)

Test Date	Data	Chain	Test Eng.
07/22/09	5.23 GHz band edge	A	KN
Agilent Ch Freq 5.25 GHz Trig Free Channel Power Averages: 100 Ref 16.5 dBm *Atten 20 dB Mkr1 5.250 000 GHz -42.986 dBm #Samp Log 10 dB/ Offst 6.5 dB Center 5.250 000 GHz *Res BW 100 kHz *VBW 1 MHz Span 10 MHz Sweep 2.92 ms (601 pts) Channel Power -29.07 dBm /1.0000 MHz Power Spectral Density -29.07 dBm/MHz File Operation Status, C:\STATE013.STA file saved Trace 1 2 3 Trace Clear Write Max Hold Min Hold View Blank More 1 of 2			
Test Date	Data	Chain	Test Eng.
07/22/09	5.27 GHz band edge	A	KN
Agilent Ch Freq 5.25 GHz Trig Free Channel Power Averages: 100 Ref 16.5 dBm *Atten 20 dB Mkr1 5.250 000 GHz -41.293 dBm #Samp Log 10 dB/ Offst 6.5 dB Center 5.250 000 GHz *Res BW 100 kHz *VBW 1 MHz Span 10 MHz Sweep 2.92 ms (601 pts) Channel Power -29.33 dBm /1.0000 MHz Power Spectral Density -29.33 dBm/MHz File Operation Status, C:\STATE013.STA file saved Trace 1 2 3 Trace Clear Write Max Hold Min Hold View Blank More 1 of 2			



Conducted Band Edge Emissions Test Results (Continued)

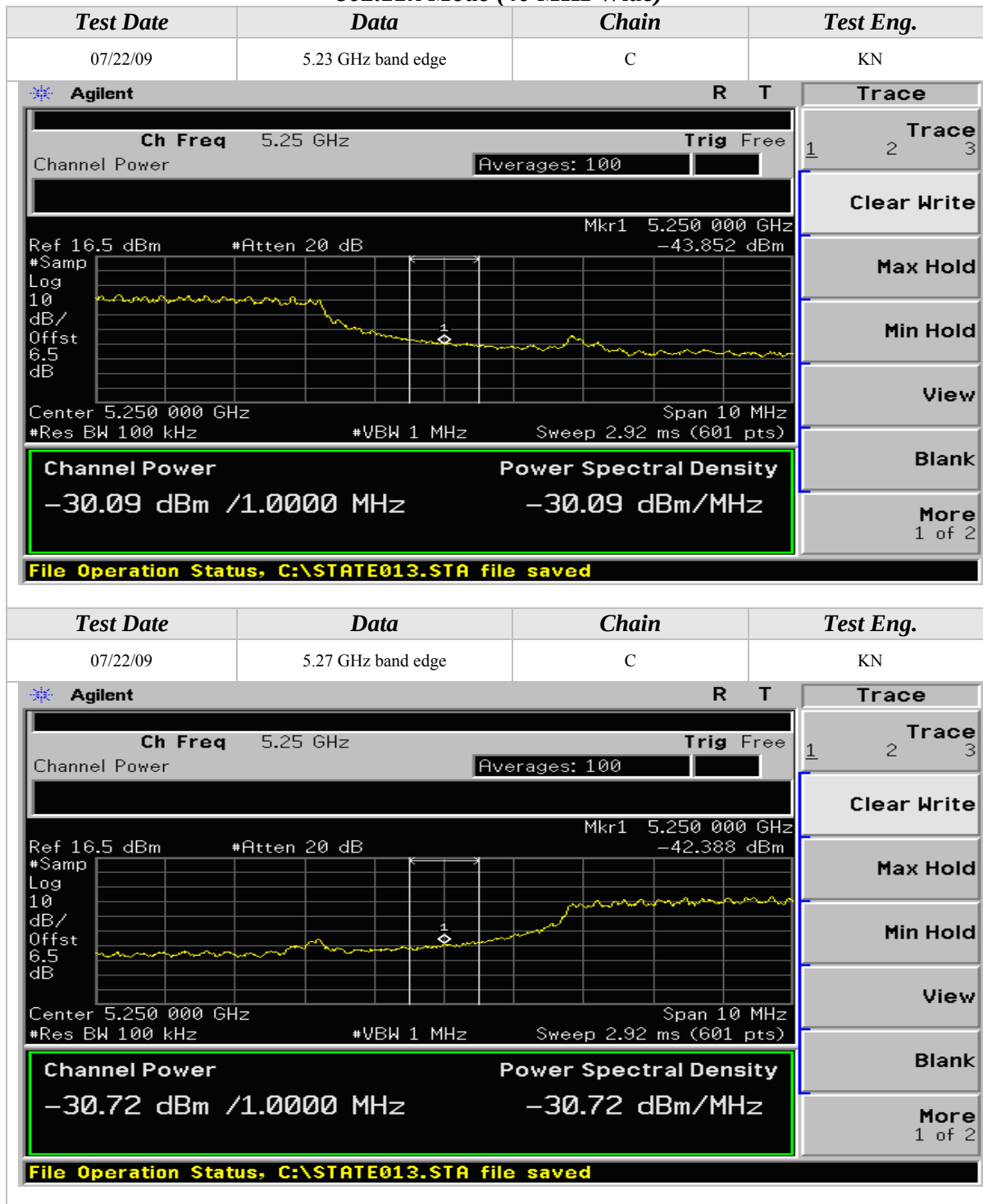
802.11n Mode (40 MHz Wide)





Conducted Band Edge Emissions Test Results (Continued)

802.11n Mode (40 MHz Wide)



**26dB EMISSIONS BANDWIDTH**

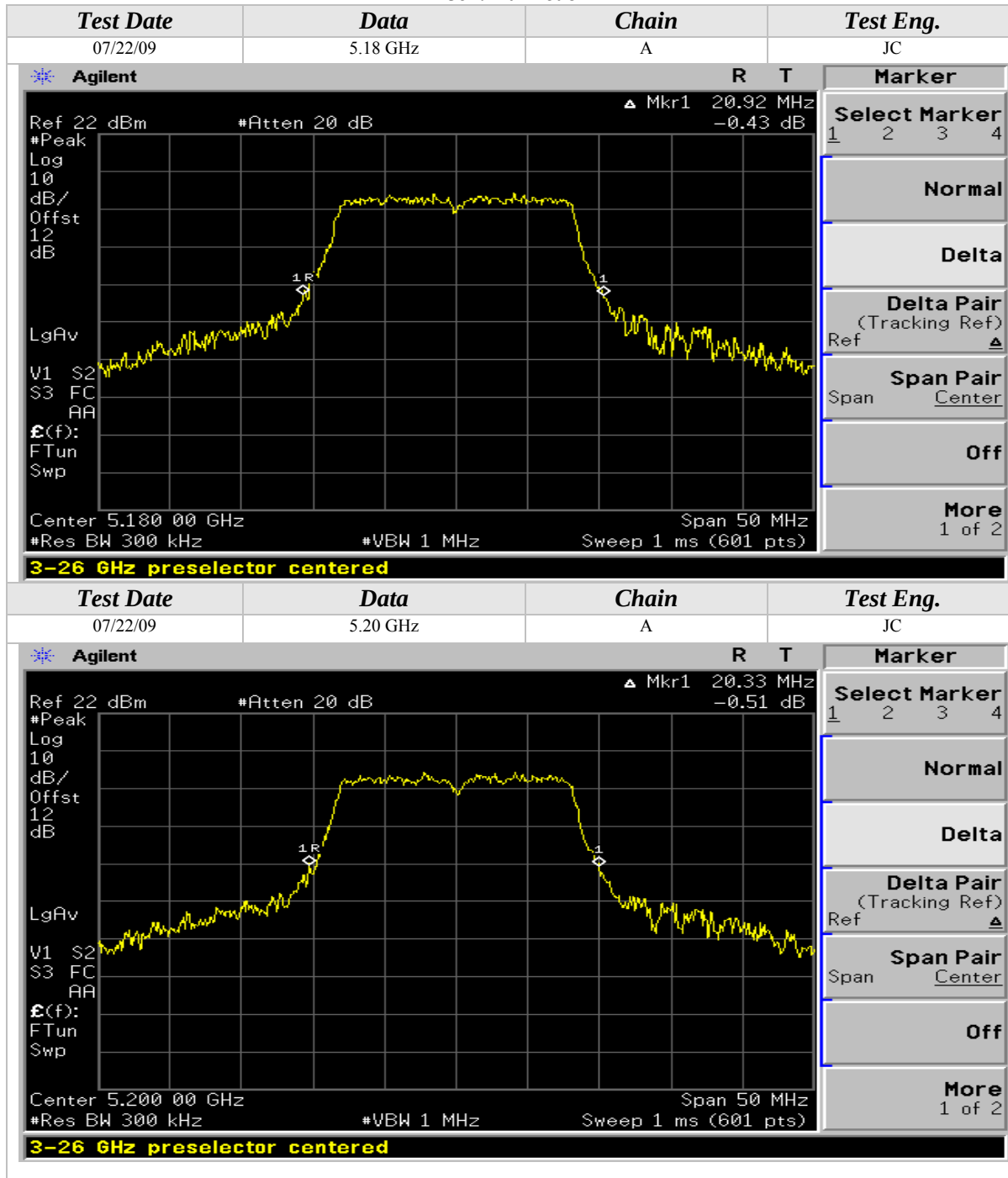
CLIENT:	Intel Corporation	DATE:	07/22/09
EUT:	Intel WiFi Link 6300	PROJECT NUMBER:	INTEL-090526
MODEL NUMBER:	633ANHMW	TEST ENGINEER:	JC
SERIAL NUMBER:	0015005A17C0	SITE #:	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot	TEMPERATURE:	28 deg. C
		HUMIDITY:	40% RH
		TIME:	3:45 PM

Description:	26dB emissions bandwidth in MHz.
Results:	See Data Sheet
Note:	Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. • 120VAC / 60 Hz.



26dB Emissions Bandwidth (Continued)

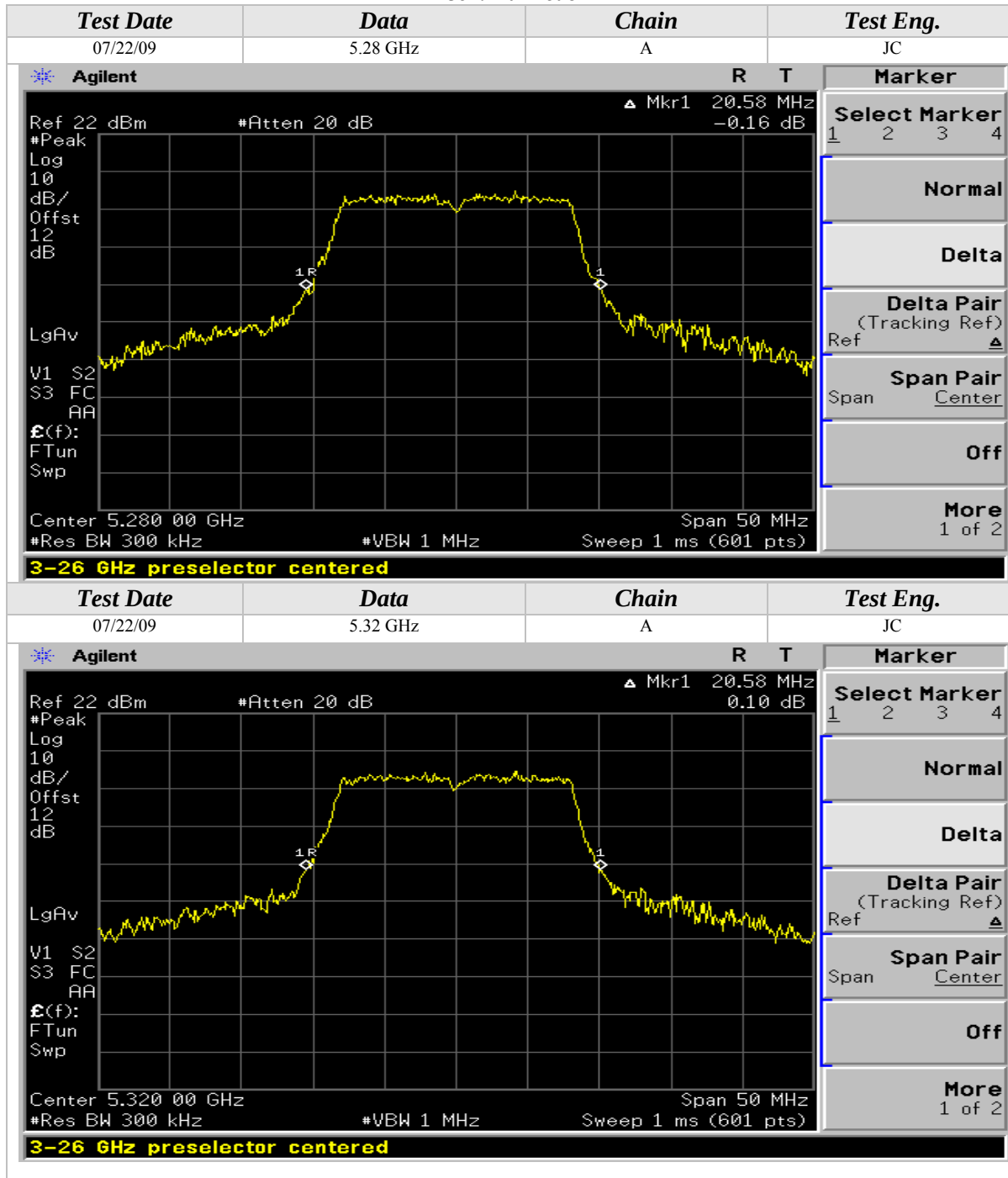
802.11a Mode





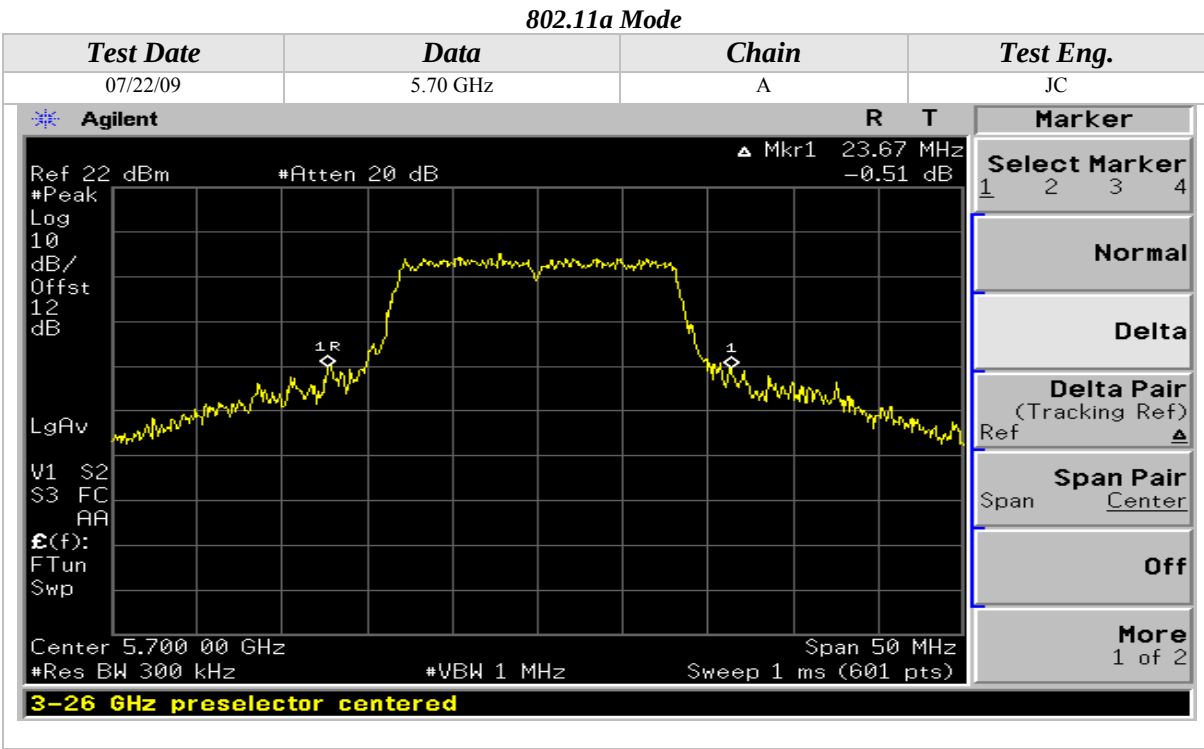
26dB Emissions Bandwidth (Continued)

802.11a Mode

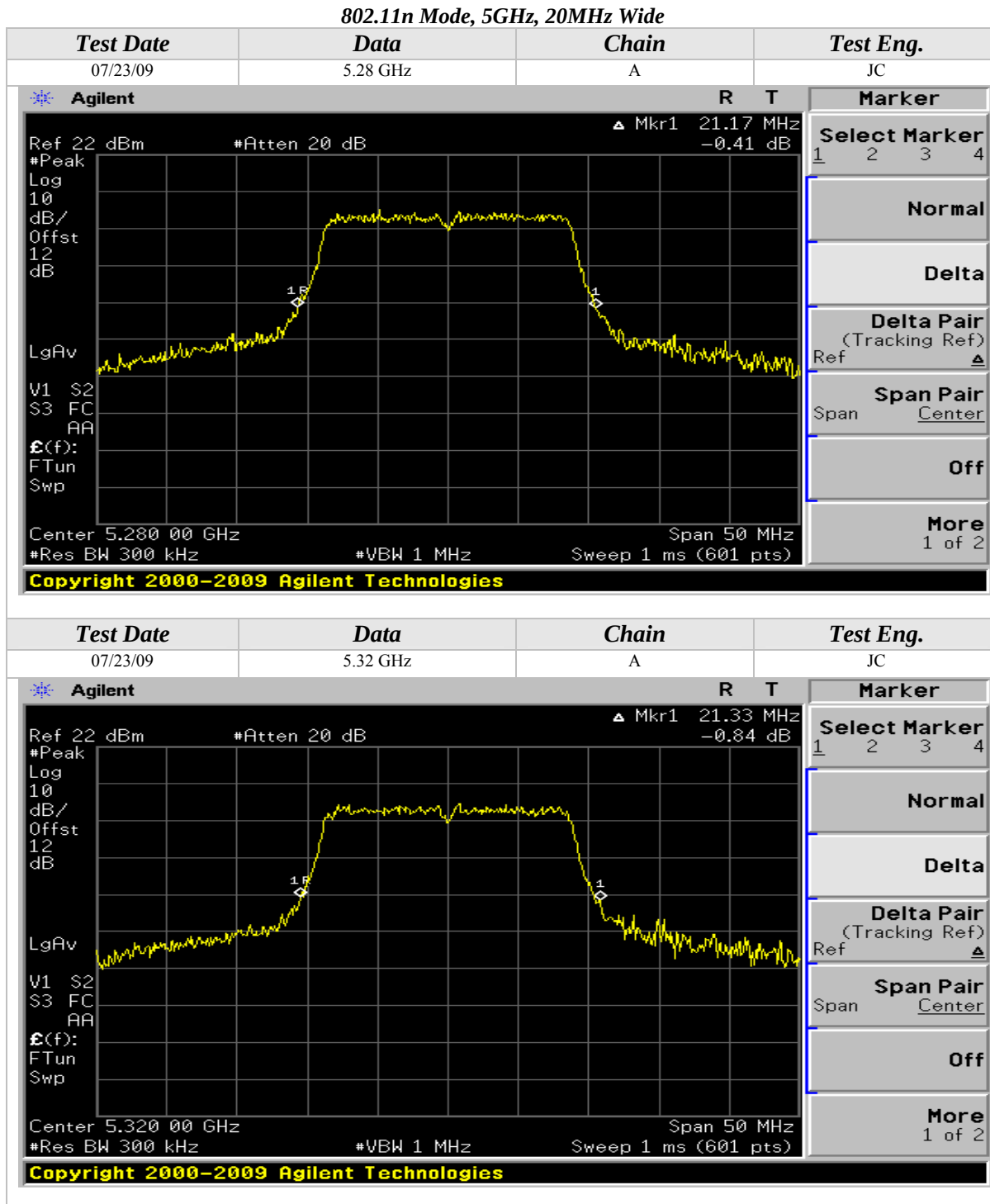




26dB Emissions Bandwidth (Continued)

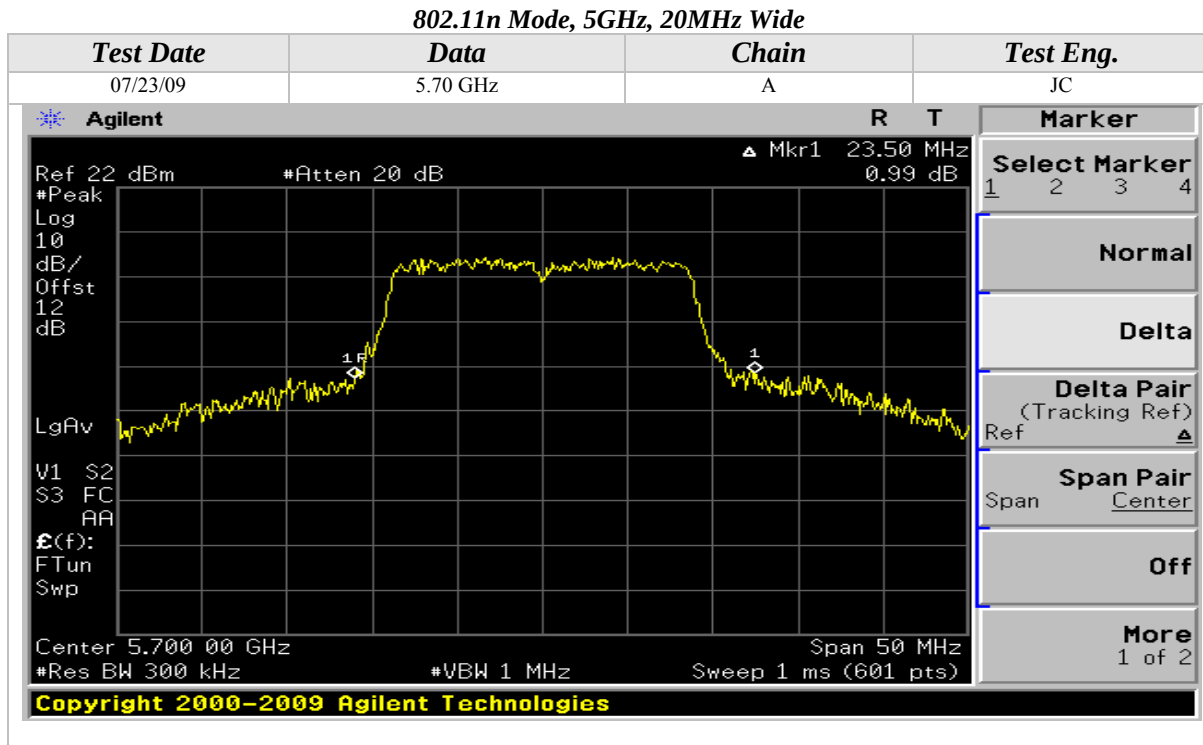


26dB Emissions Bandwidth (Continued)





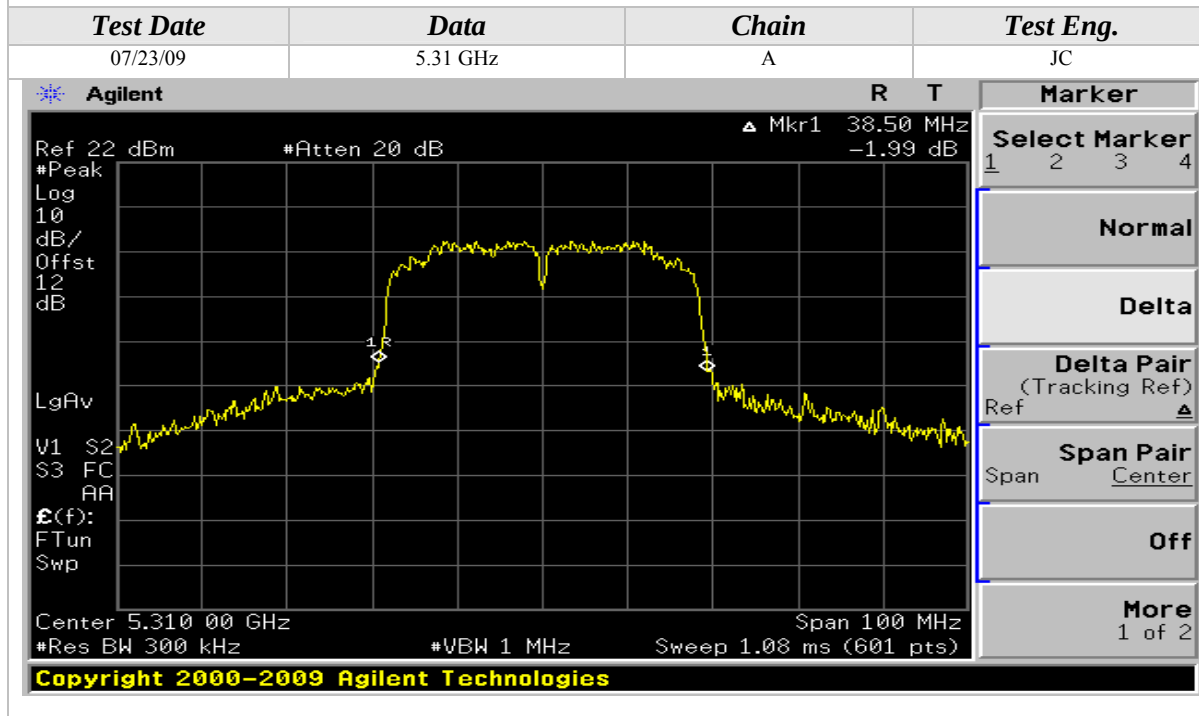
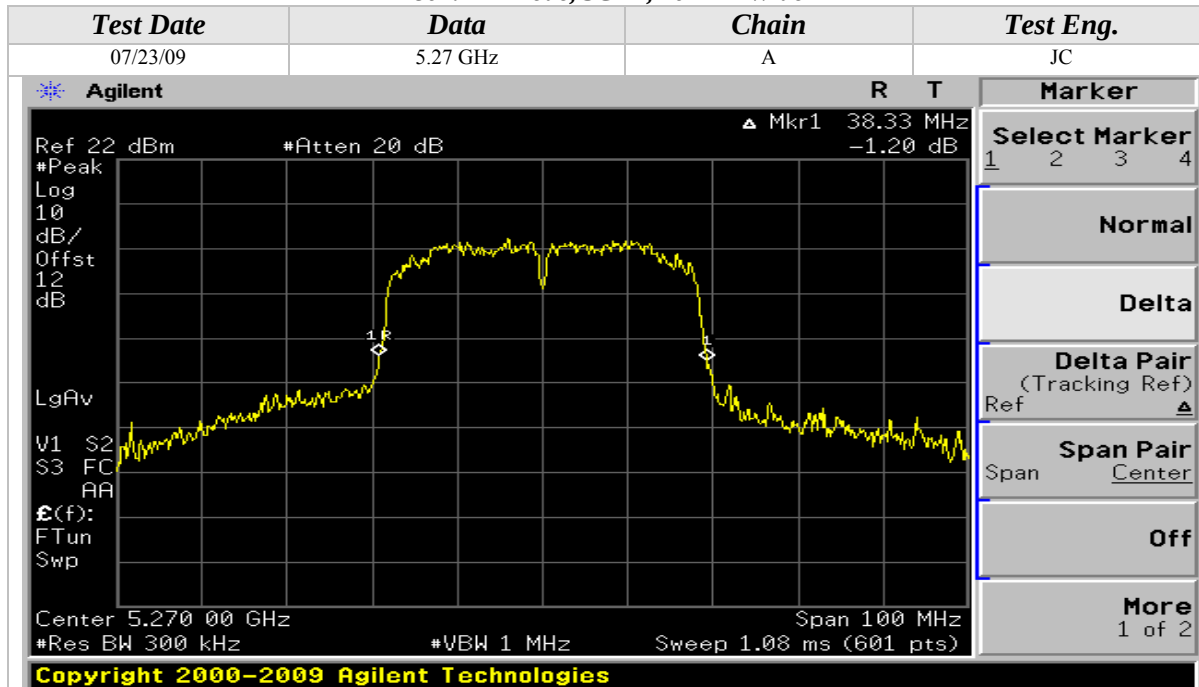
26dB Emissions Bandwidth (Continued)





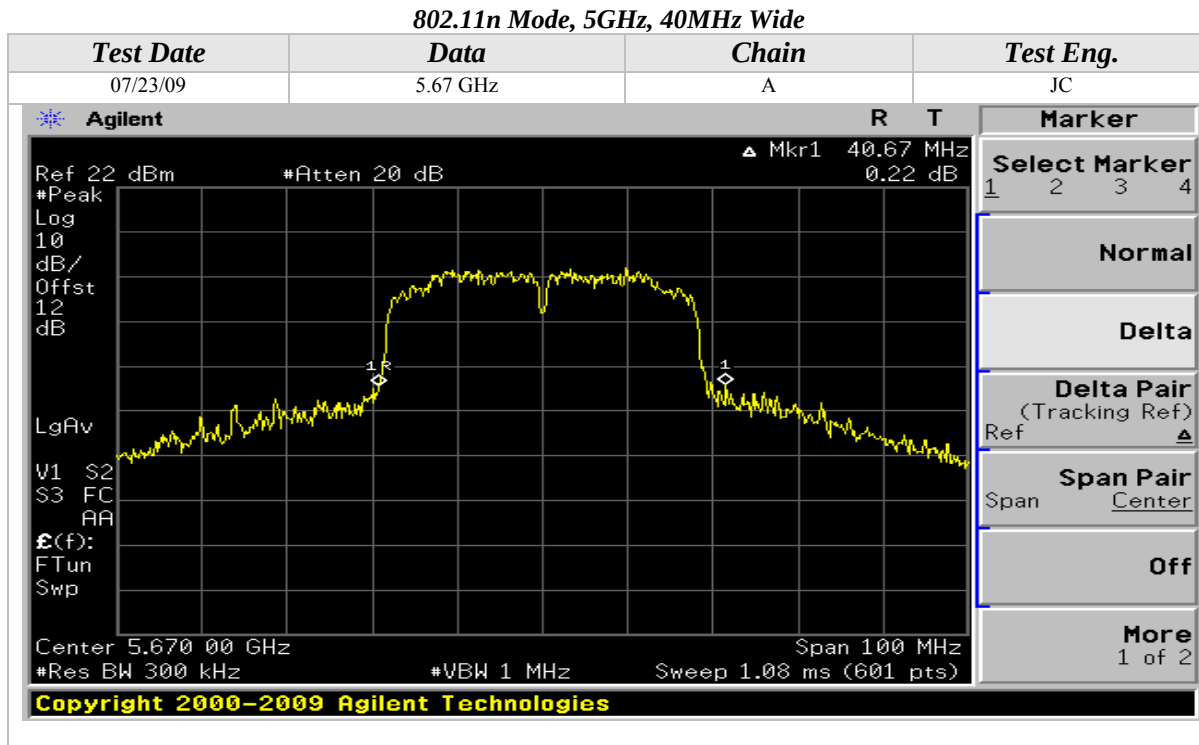
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 40MHz Wide





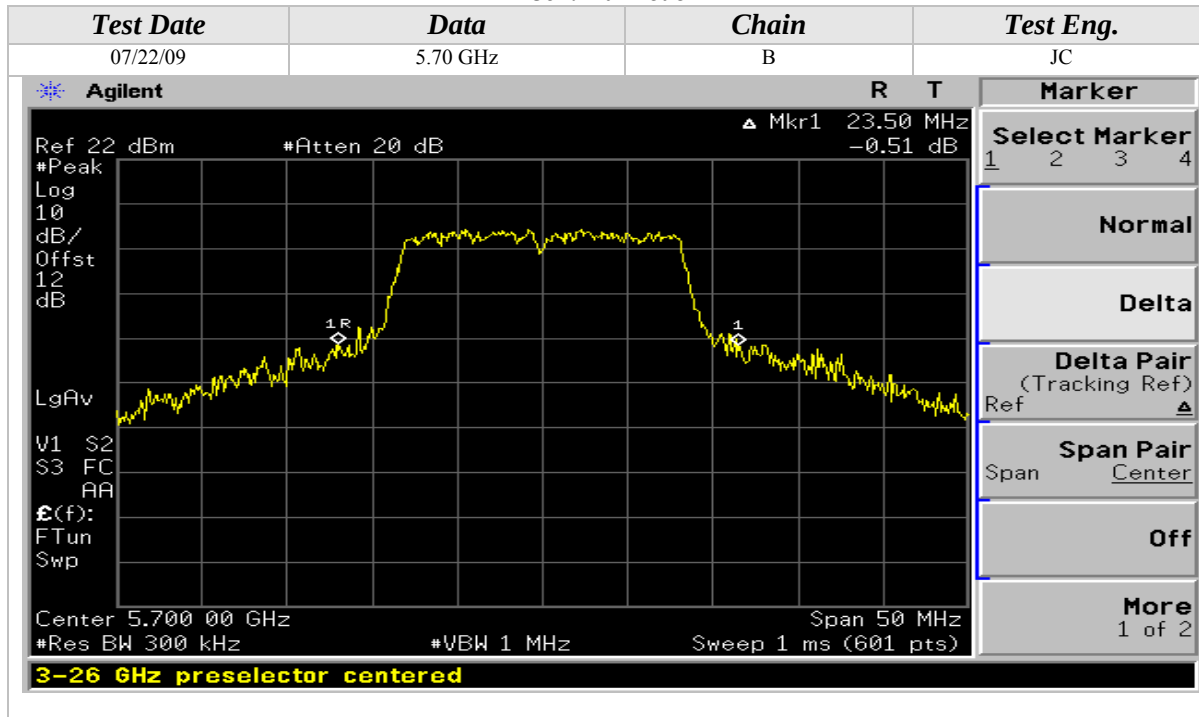
26dB Emissions Bandwidth (Continued)





26dB Emissions Bandwidth (Continued)

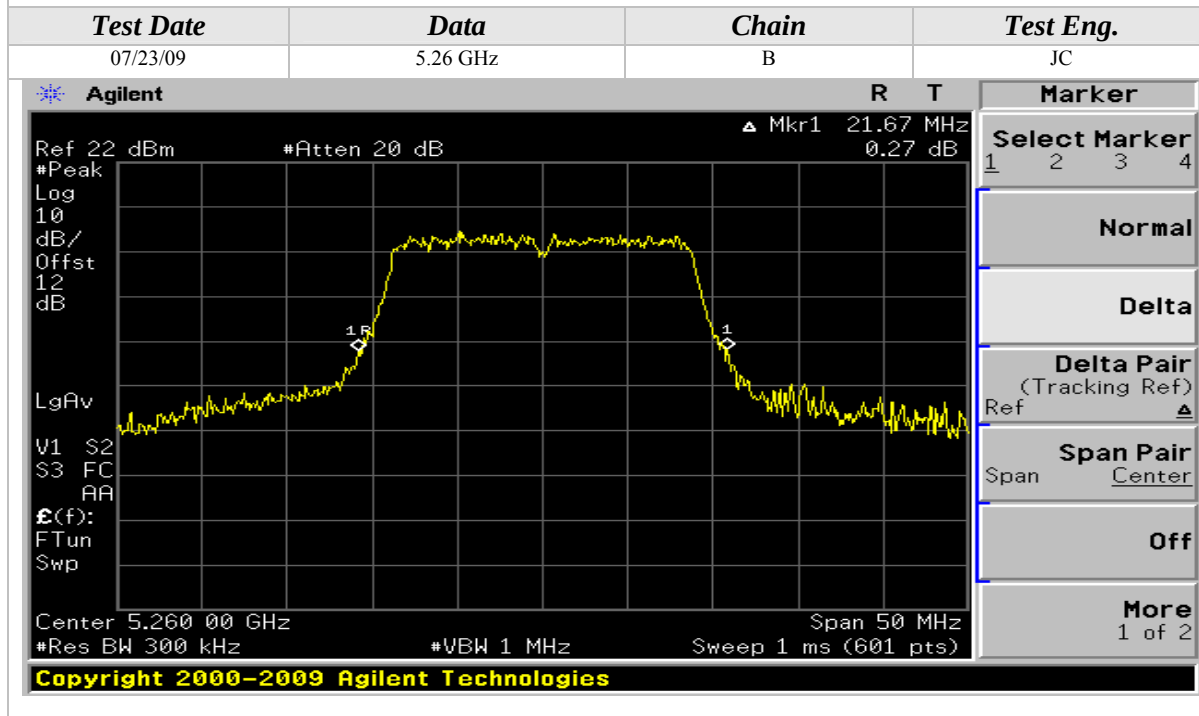
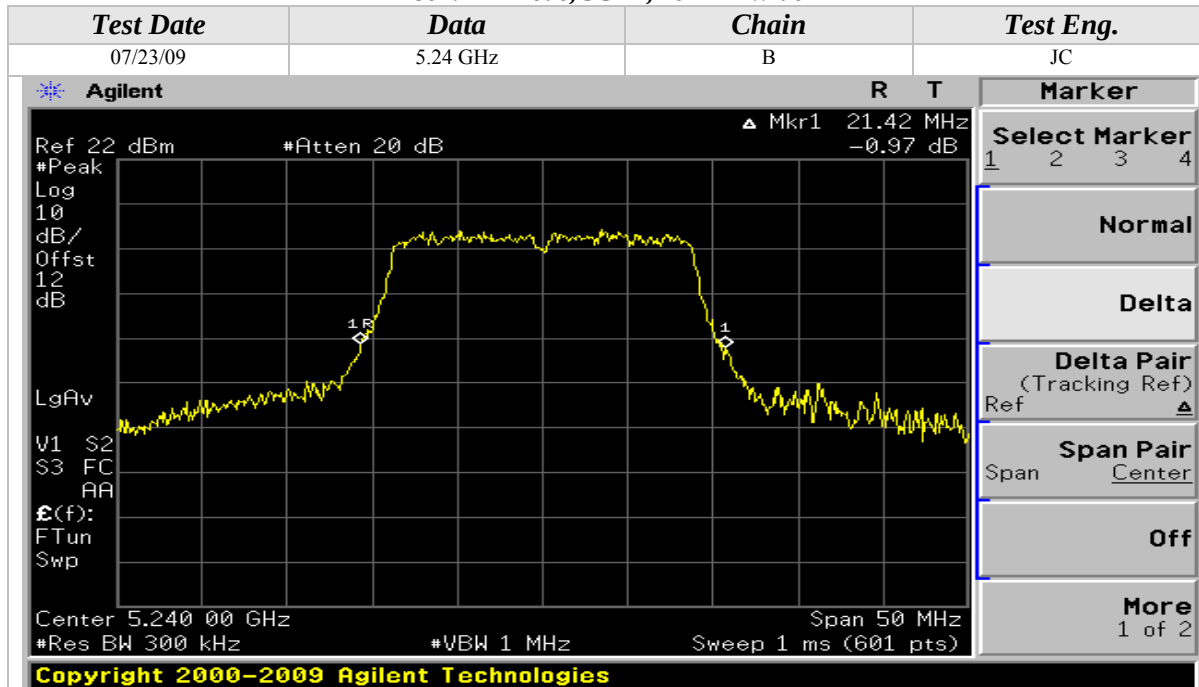
802.11a Mode





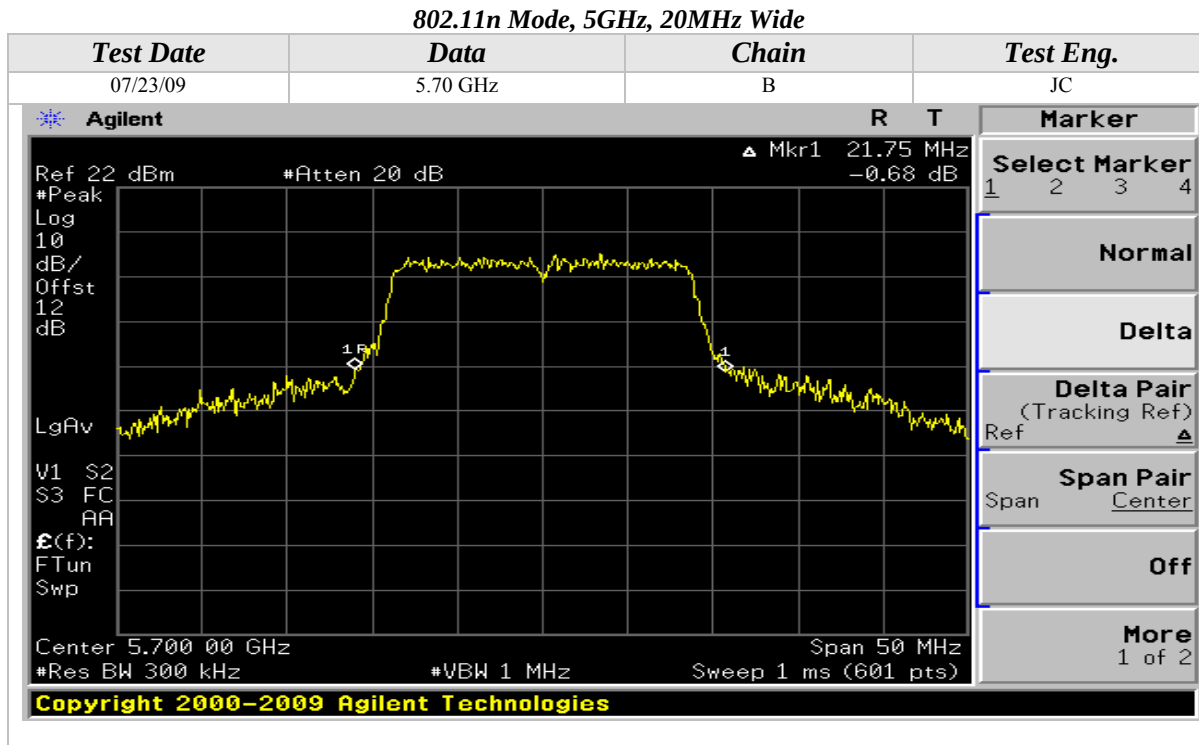
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 20MHz Wide





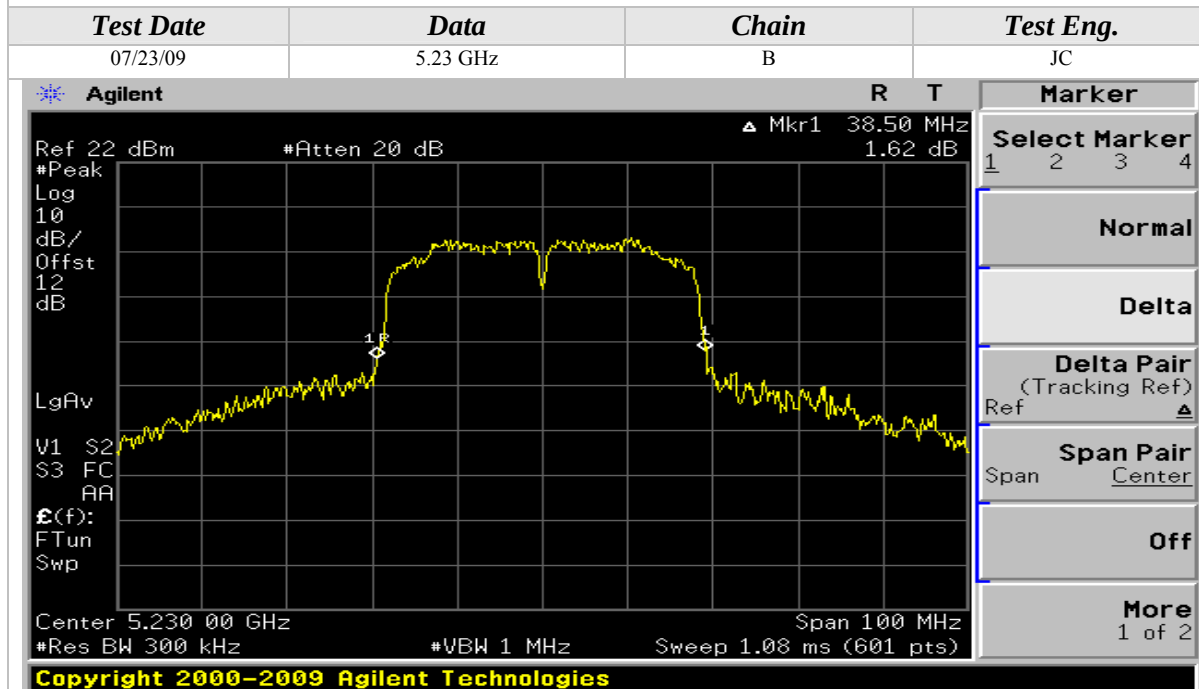
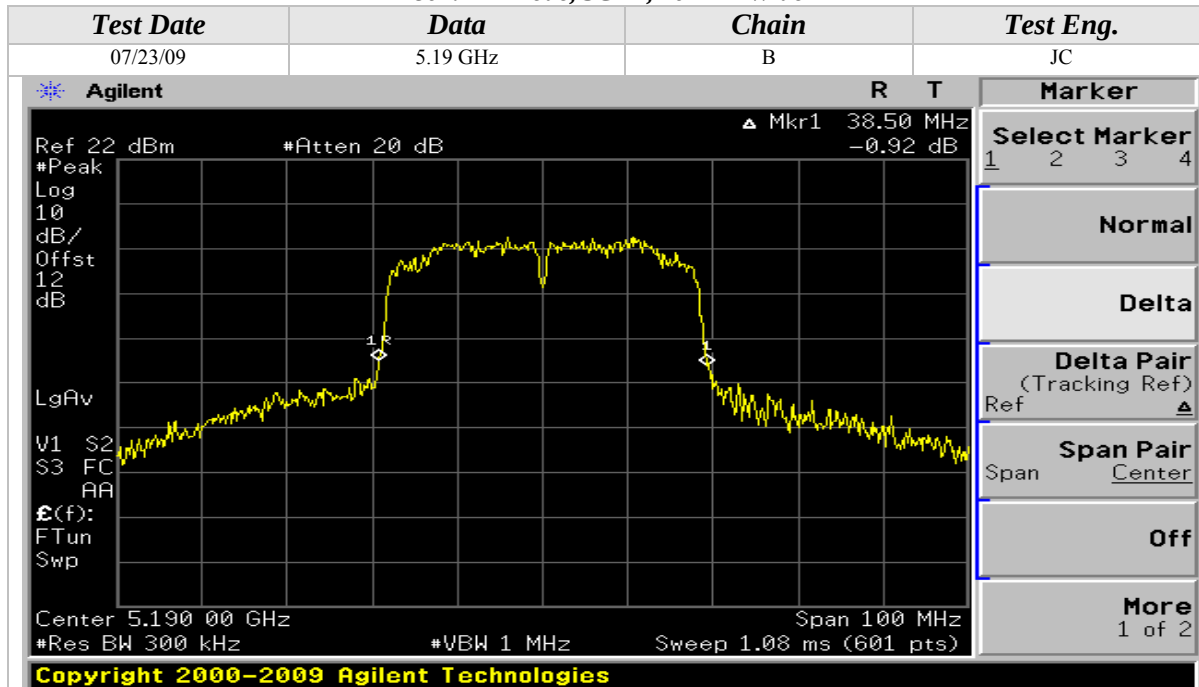
26dB Emissions Bandwidth (Continued)





26dB Emissions Bandwidth (Continued)

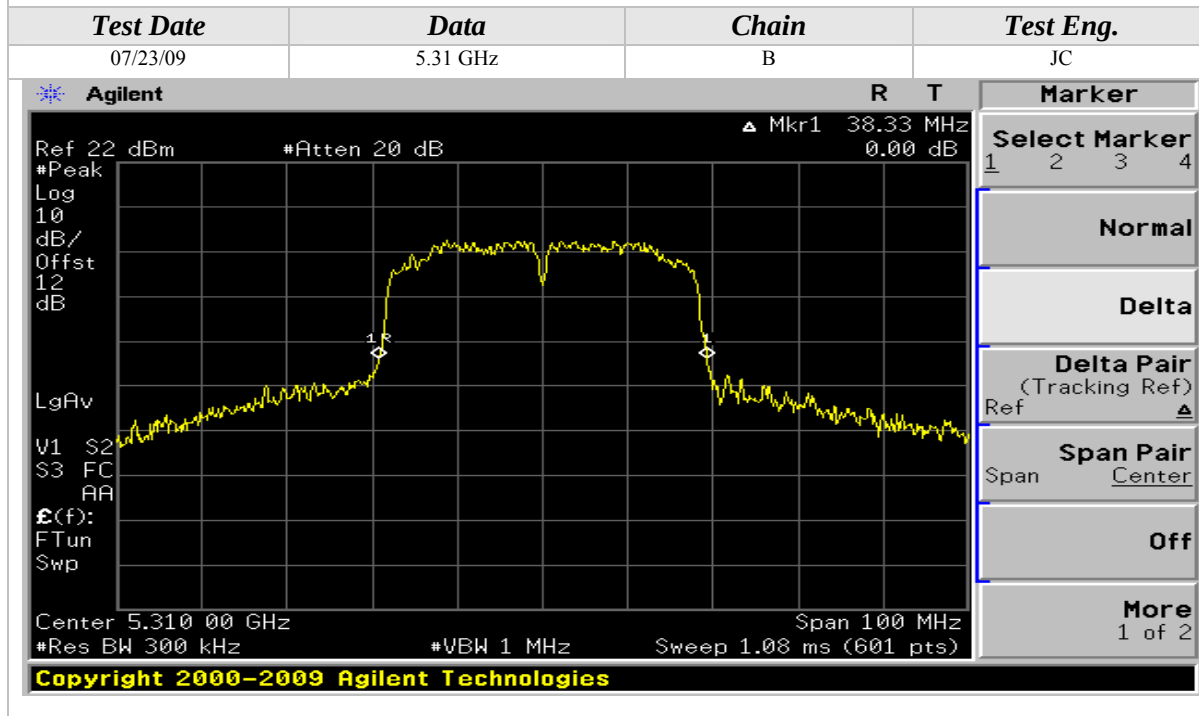
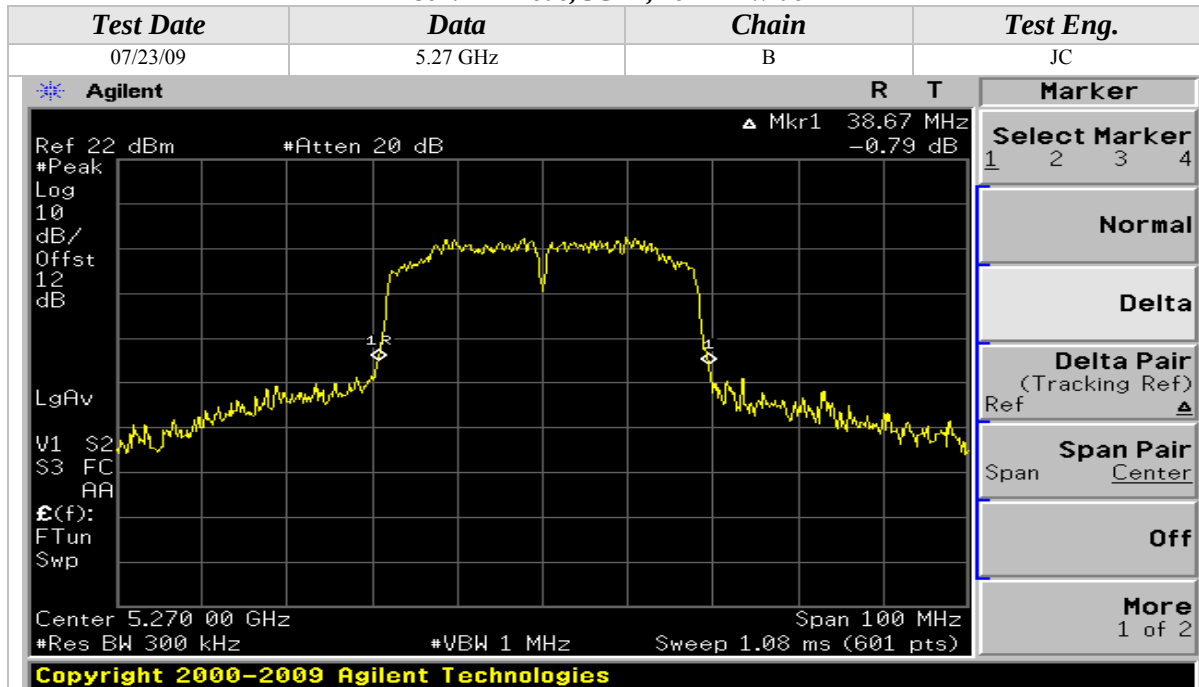
802.11n Mode, 5GHz, 40MHz Wide





26dB Emissions Bandwidth (Continued)

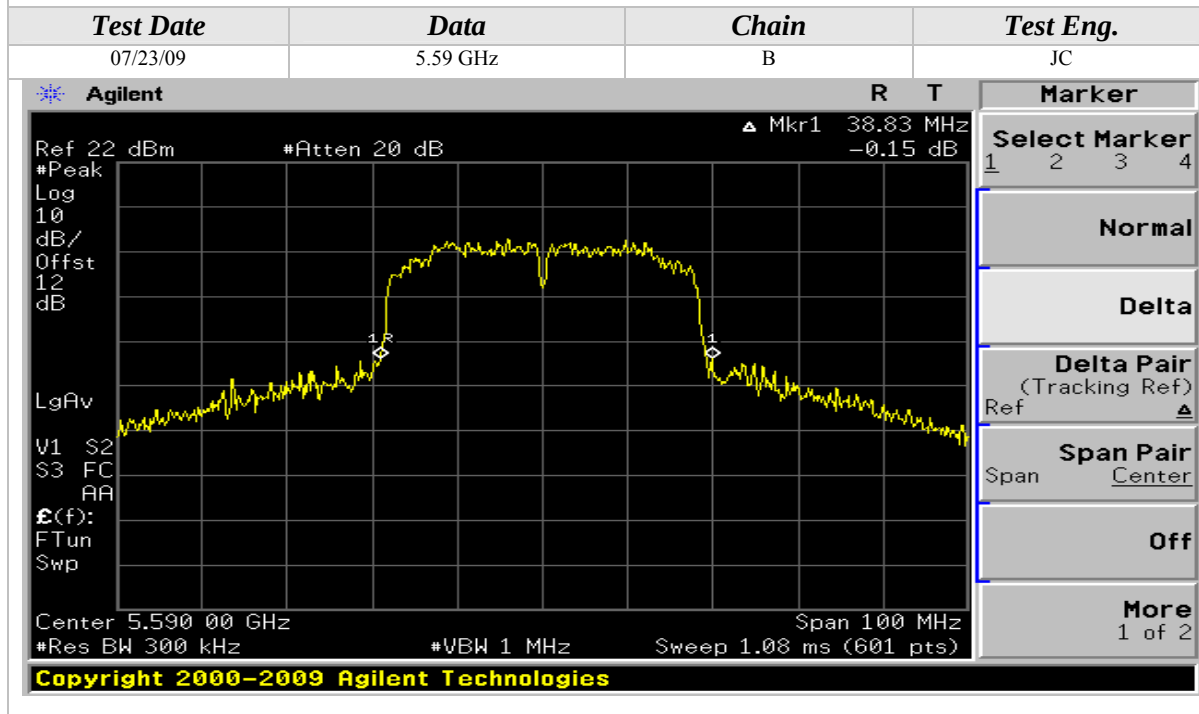
802.11n Mode, 5GHz, 40MHz Wide





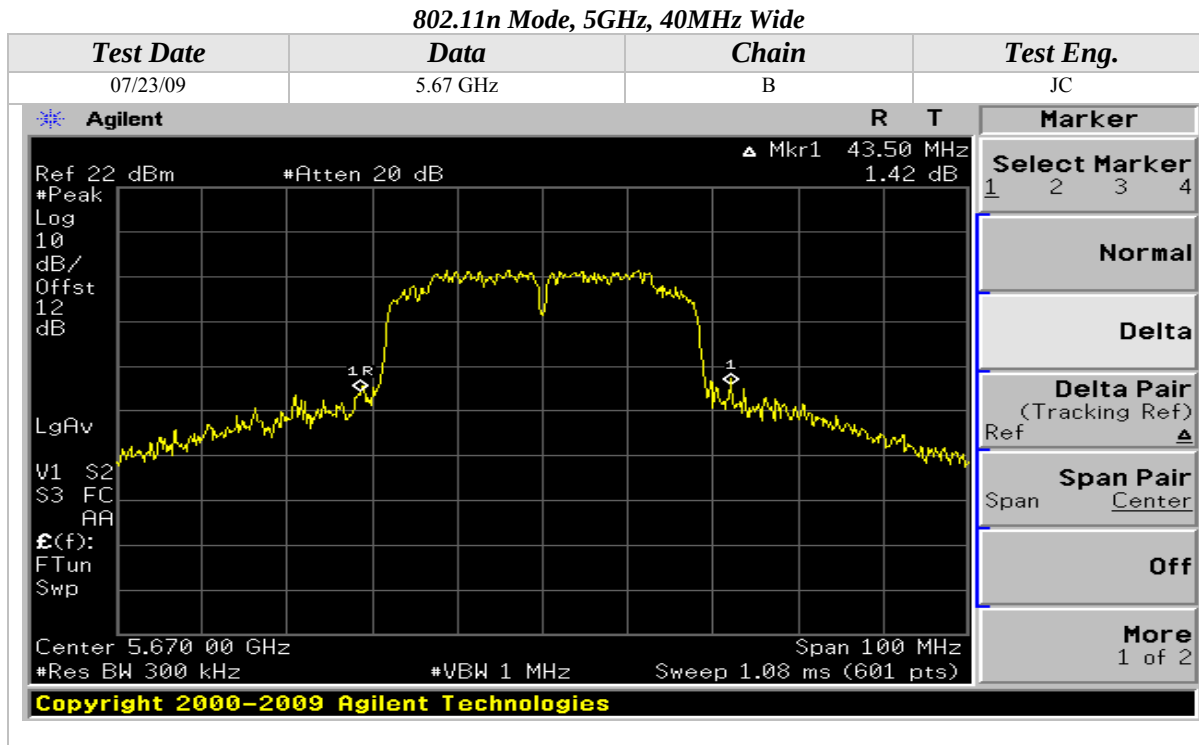
26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 40MHz Wide



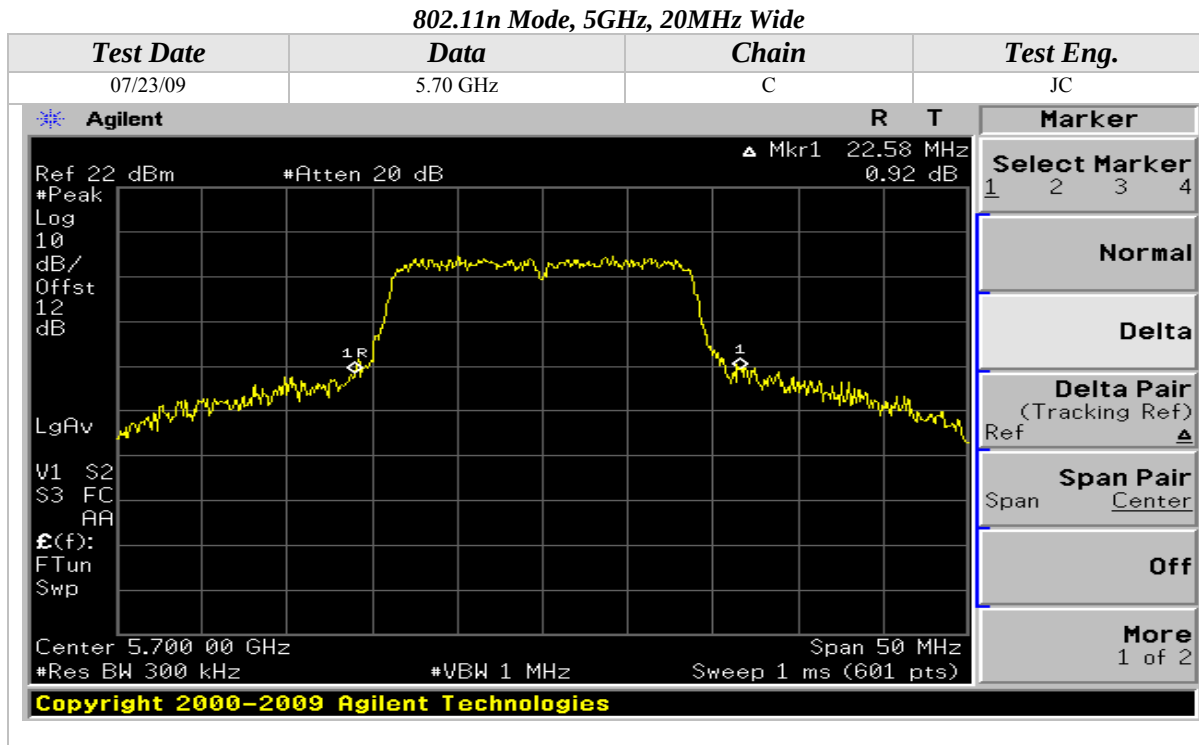


26dB Emissions Bandwidth (Continued)





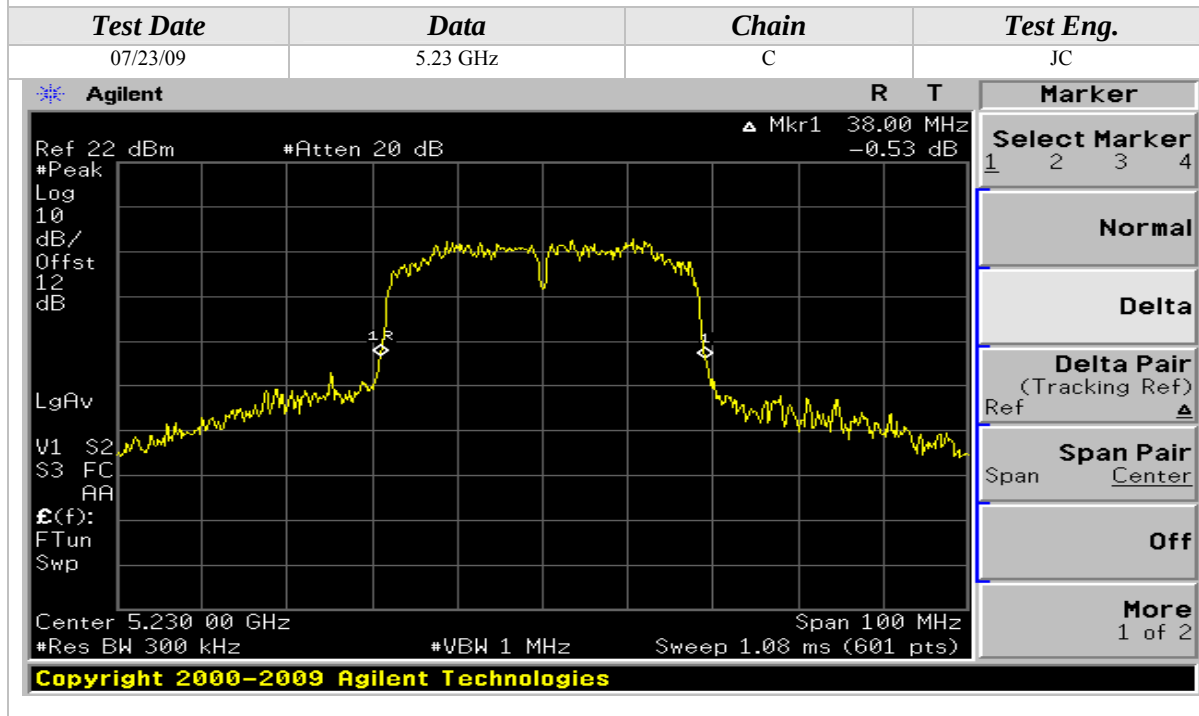
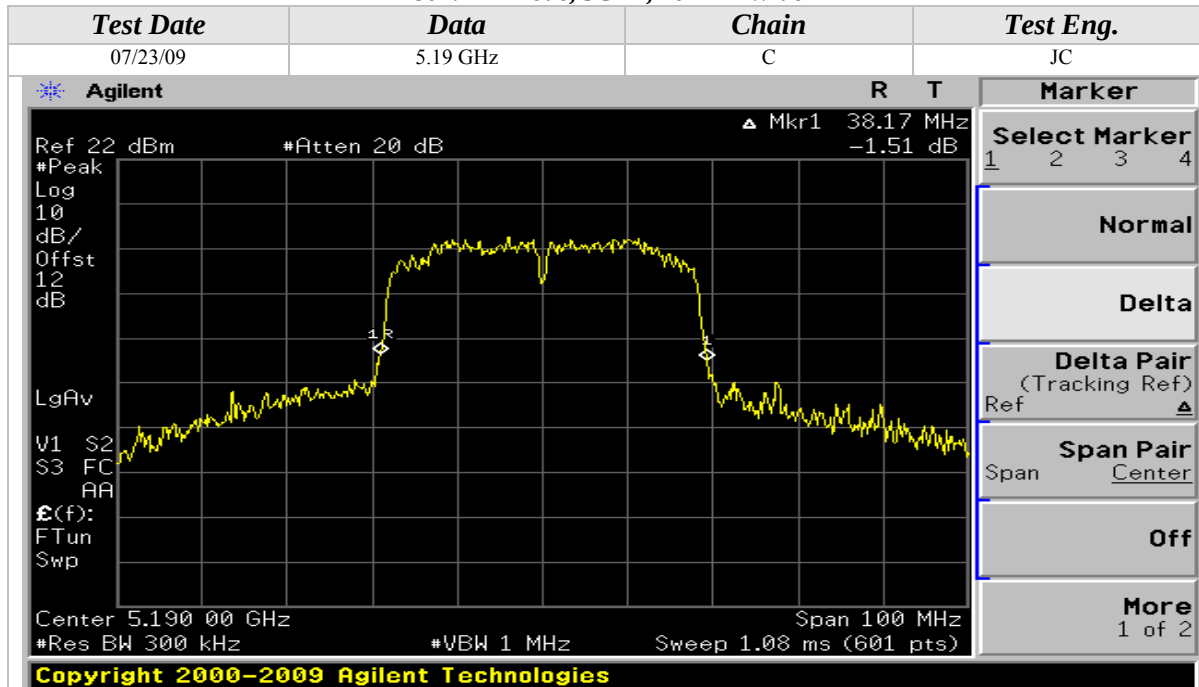
26dB Emissions Bandwidth (Continued)



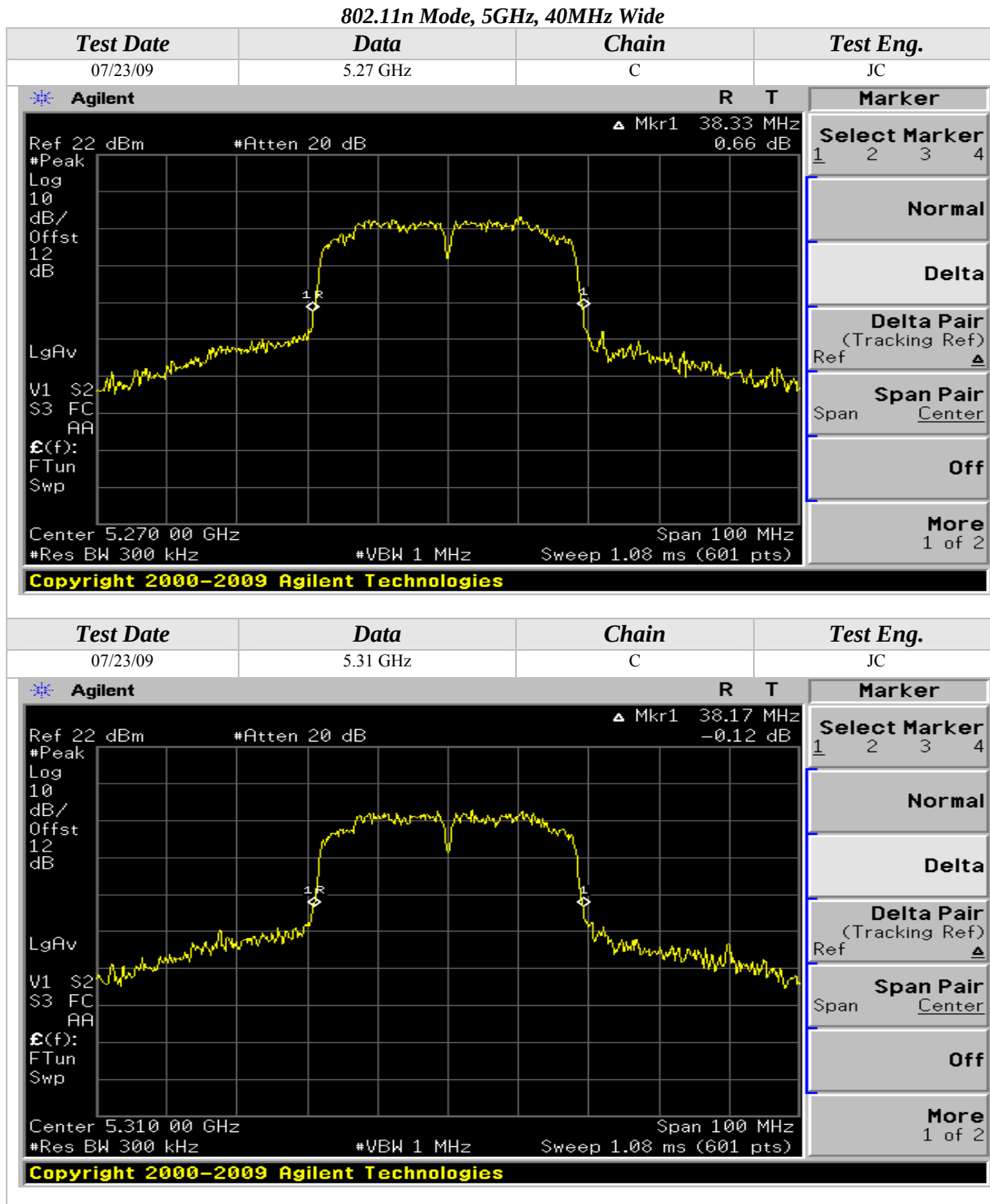


26dB Emissions Bandwidth (Continued)

802.11n Mode, 5GHz, 40MHz Wide

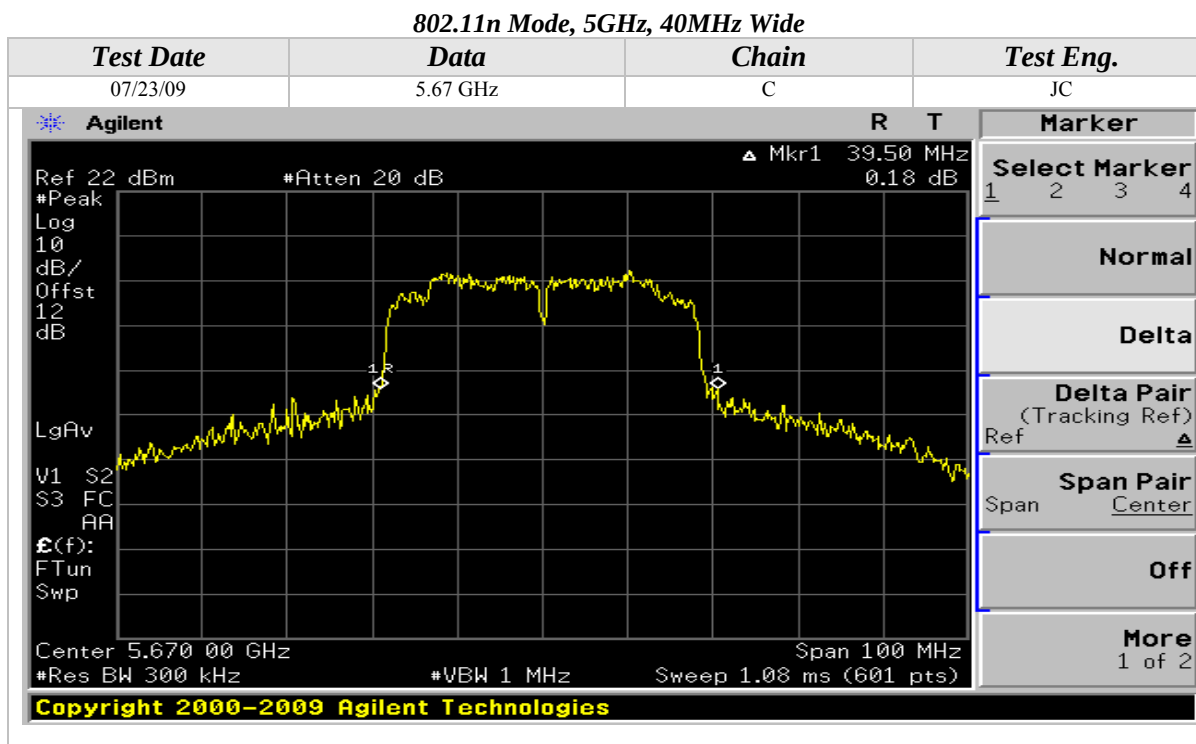


26dB Emissions Bandwidth (Continued)





26dB Emissions Bandwidth (Continued)



**PEAK POWER SPECTRAL DENSITY**

CLIENT:	Intel Corporation	DATE:	07/22/09
EUT:	Intel WiFi Link 6300	PROJECT NUMBER:	INTEL-090526
MODEL NUMBER:	633ANHMW	TEST ENGINEER:	JC
SERIAL NUMBER:	0015005A17C0	SITE #:	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot	TEMPERATURE:	25 deg. C
		HUMIDITY:	44% RH
		TIME:	9:00 AM

Description:	For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 4 dBm in any 1-MHz band 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
Results:	See Data Sheet
Note:	Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. • 120VAC / 60 Hz.

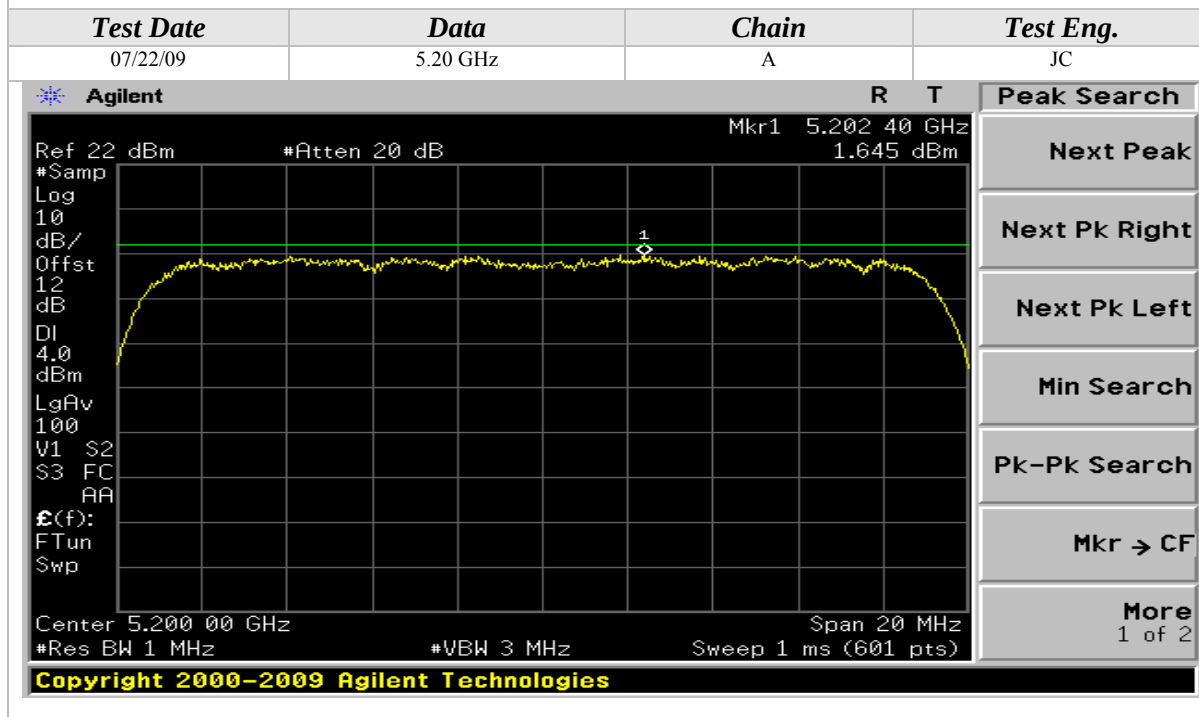
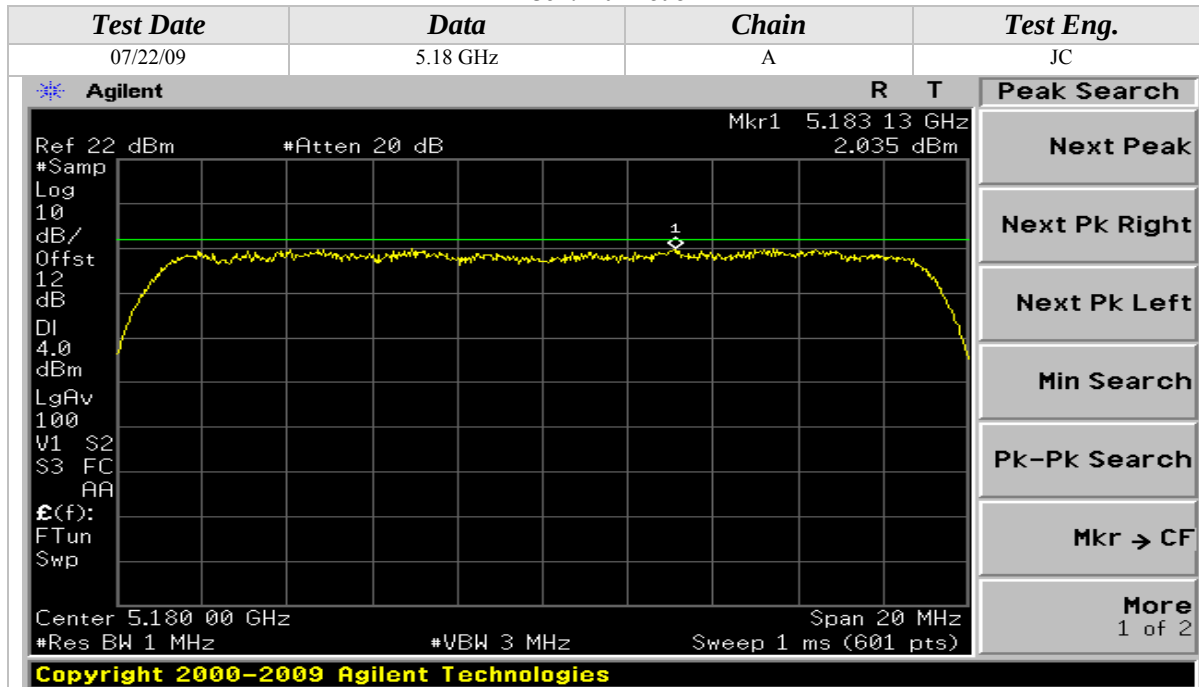
Peak Power Spectral Density Limits	
Frequency (MHz)	Limit (dBm)
5150-5250	4
5250-5350	11
5470-5725	11

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



Peak Power Spectral Density (Continued)

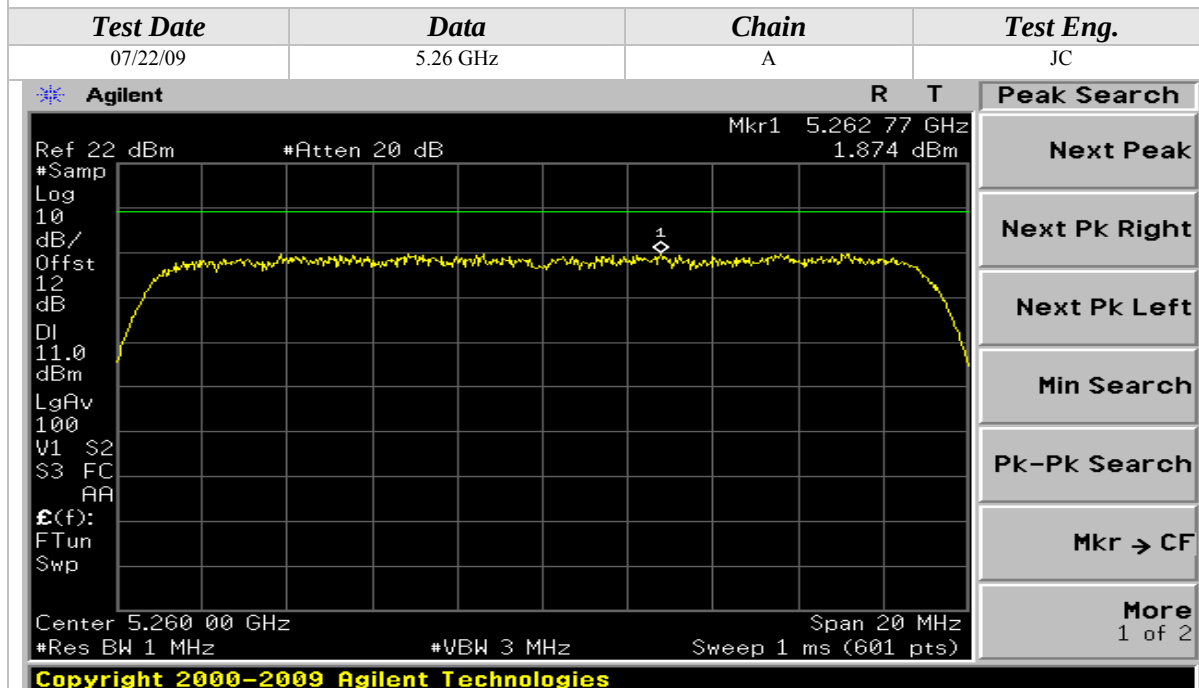
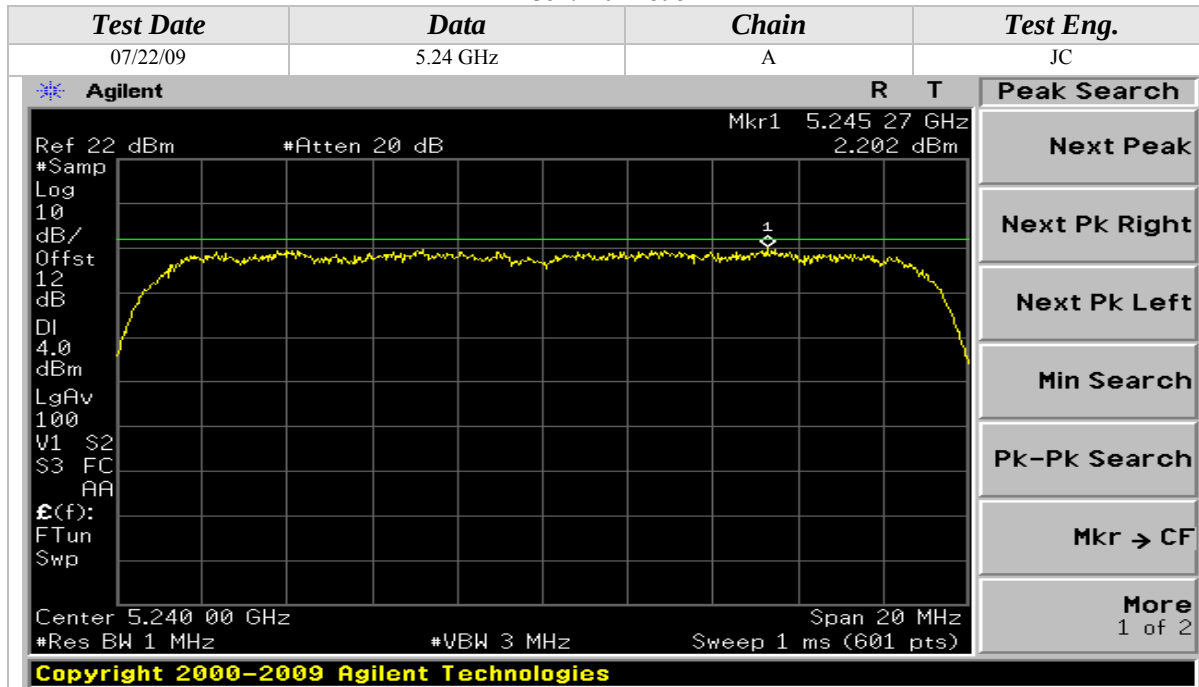
802.11a Mode





Peak Power Spectral Density (Continued)

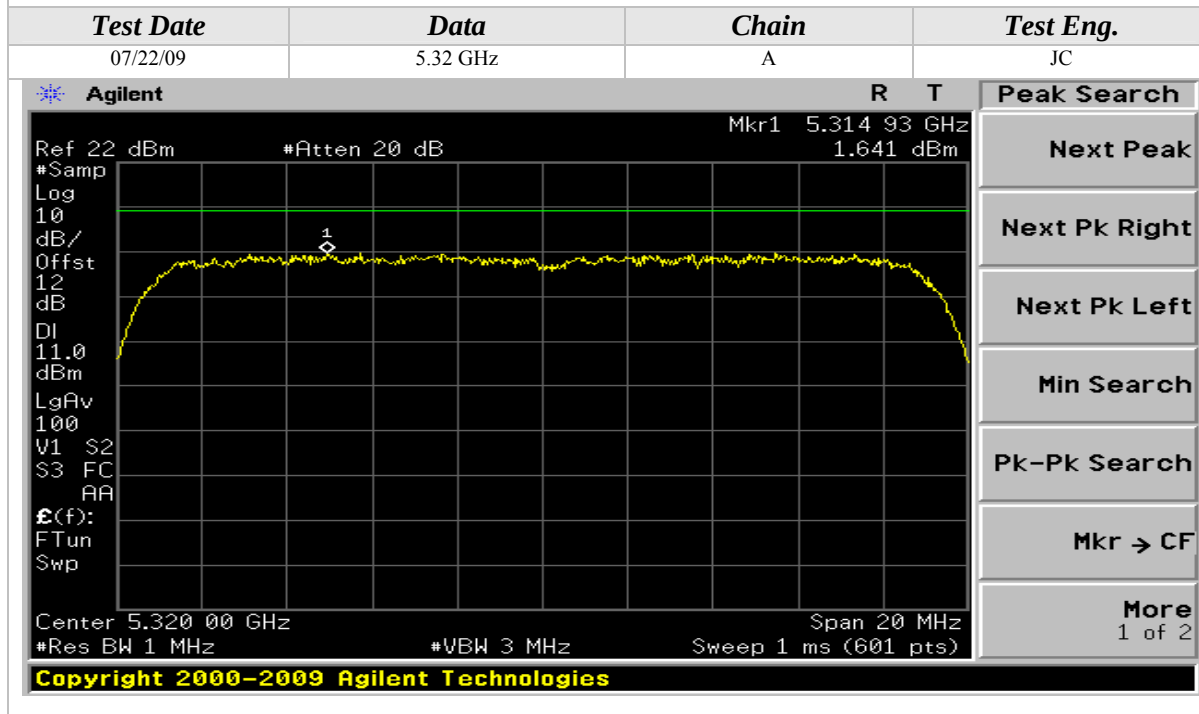
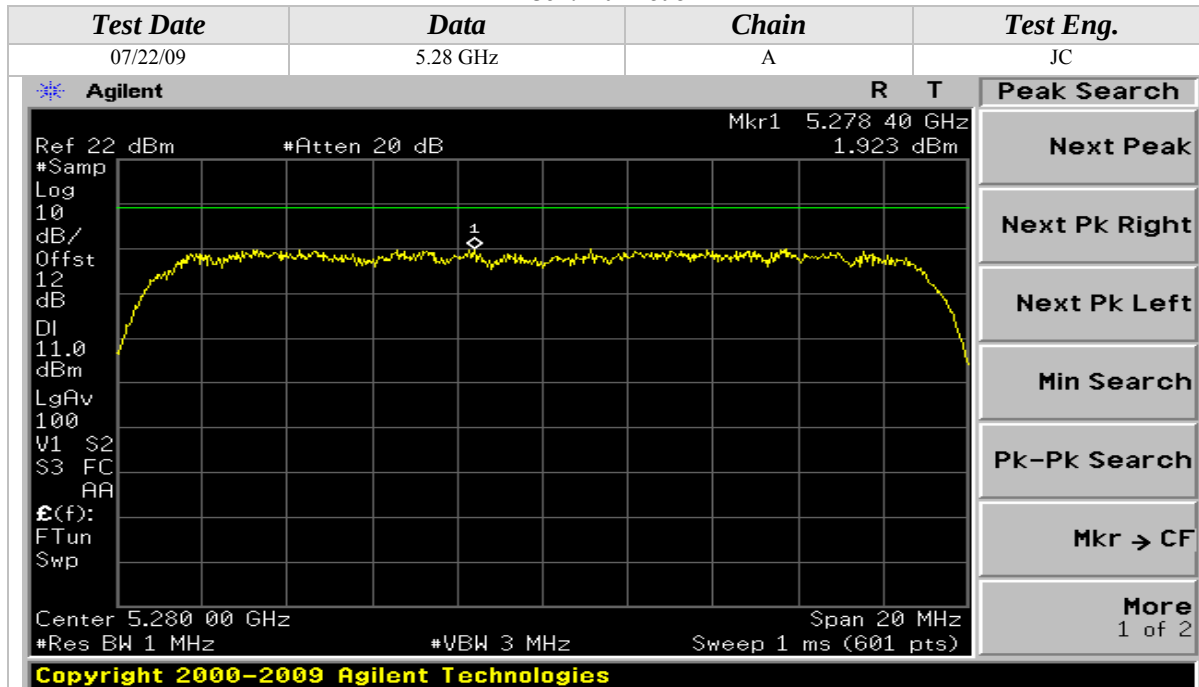
802.11a Mode





Peak Power Spectral Density (Continued)

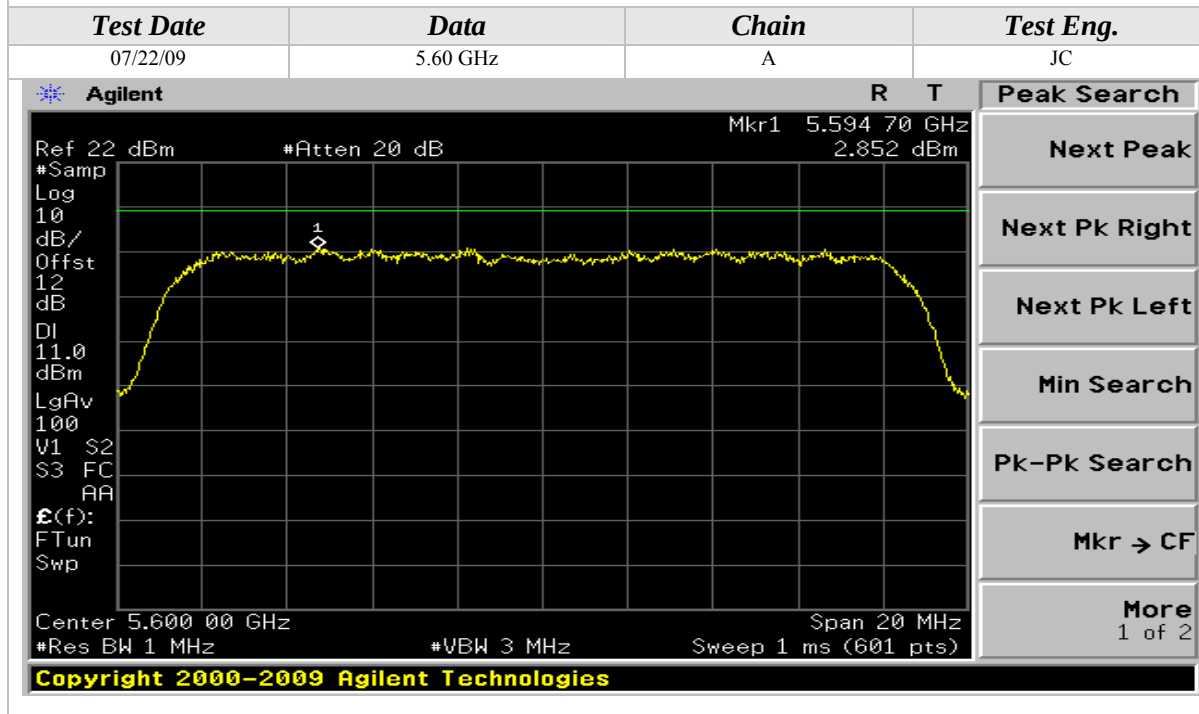
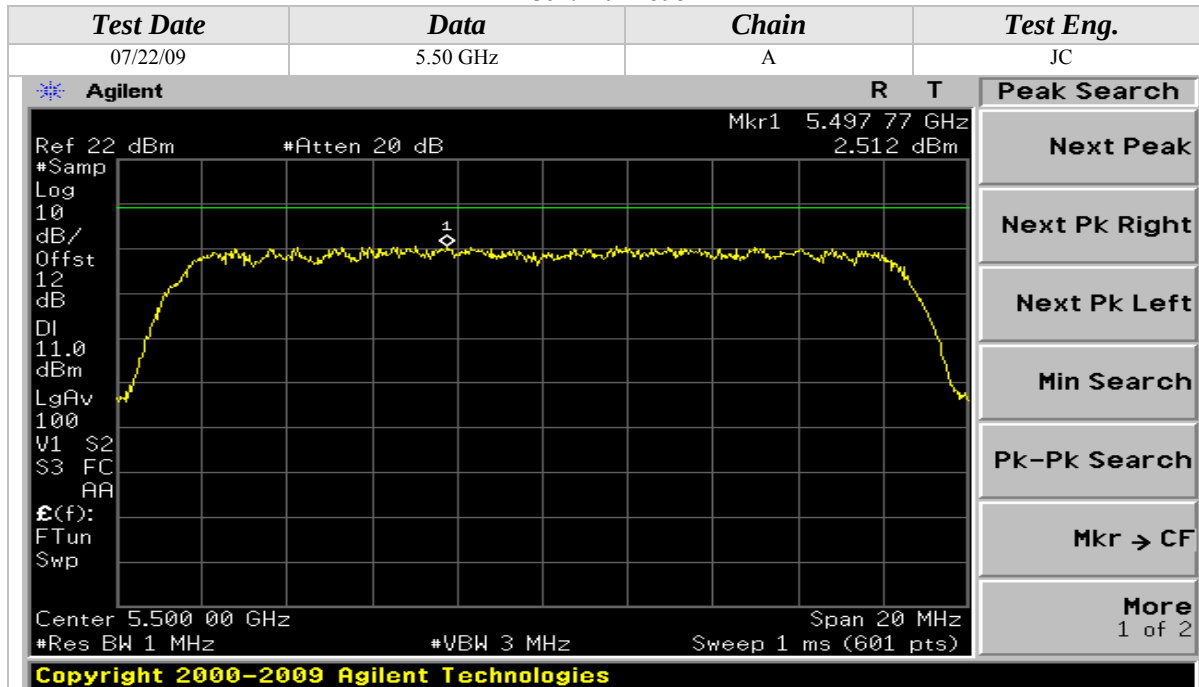
802.11a Mode





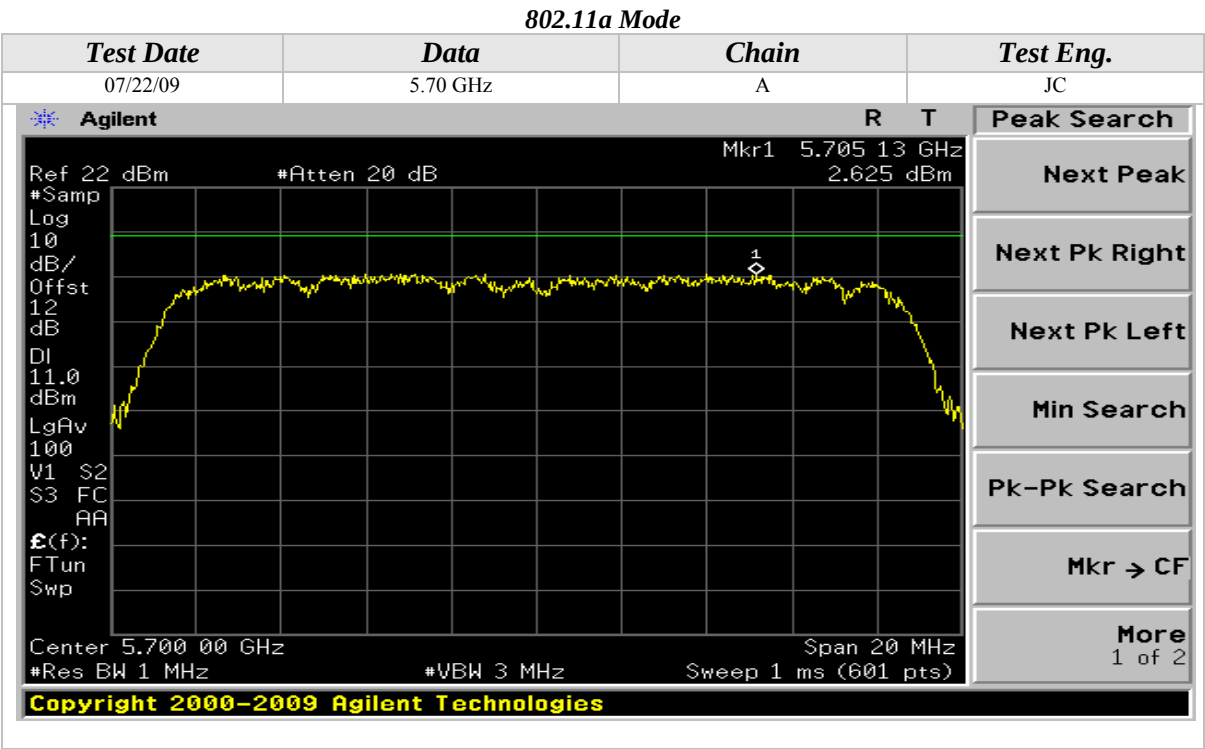
Peak Power Spectral Density (Continued)

802.11a Mode





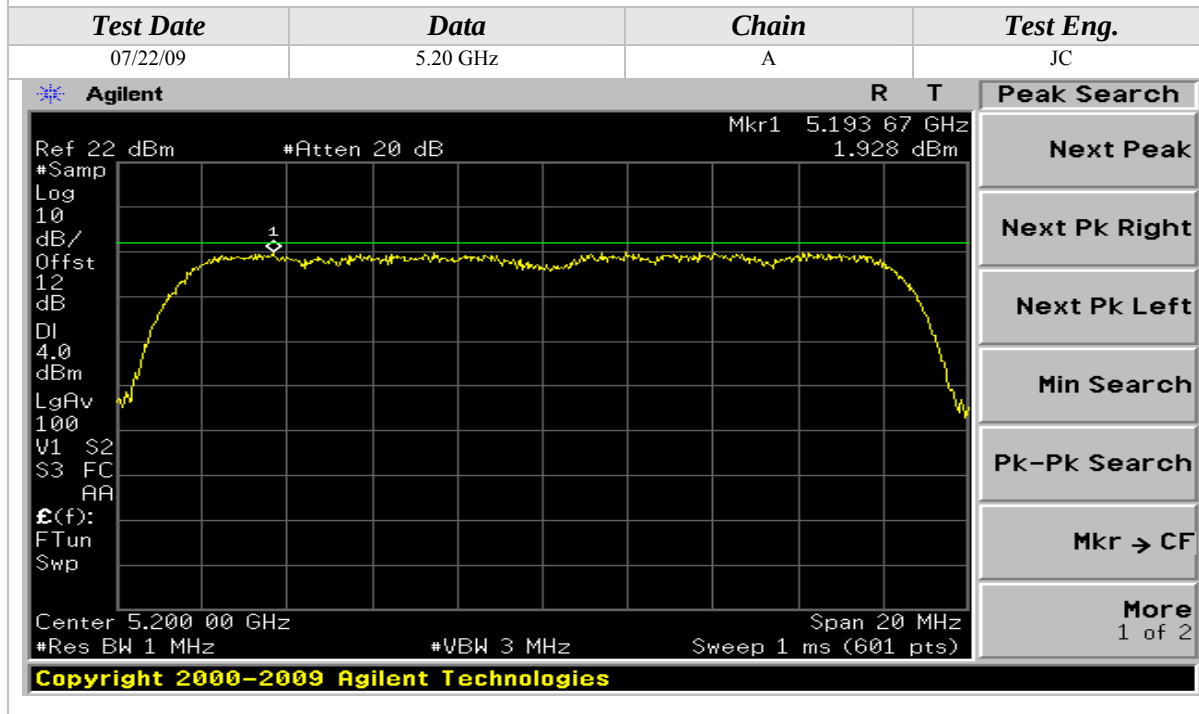
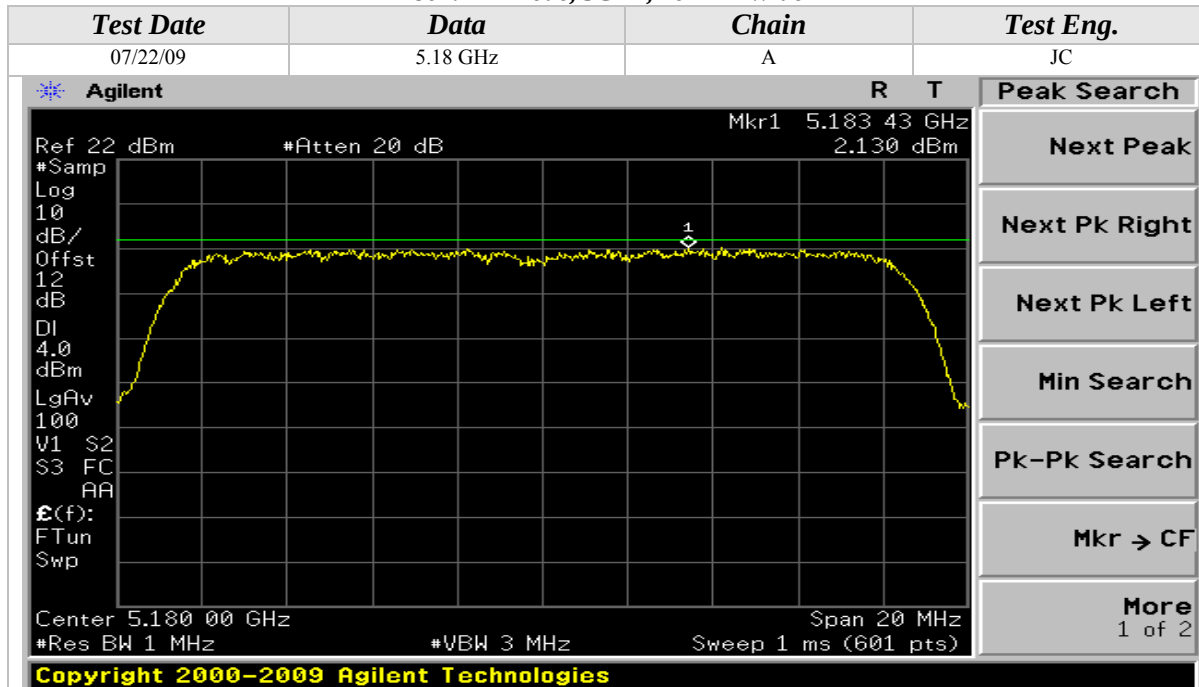
Peak Power Spectral Density (Continued)





Peak Power Spectral Density (Continued)

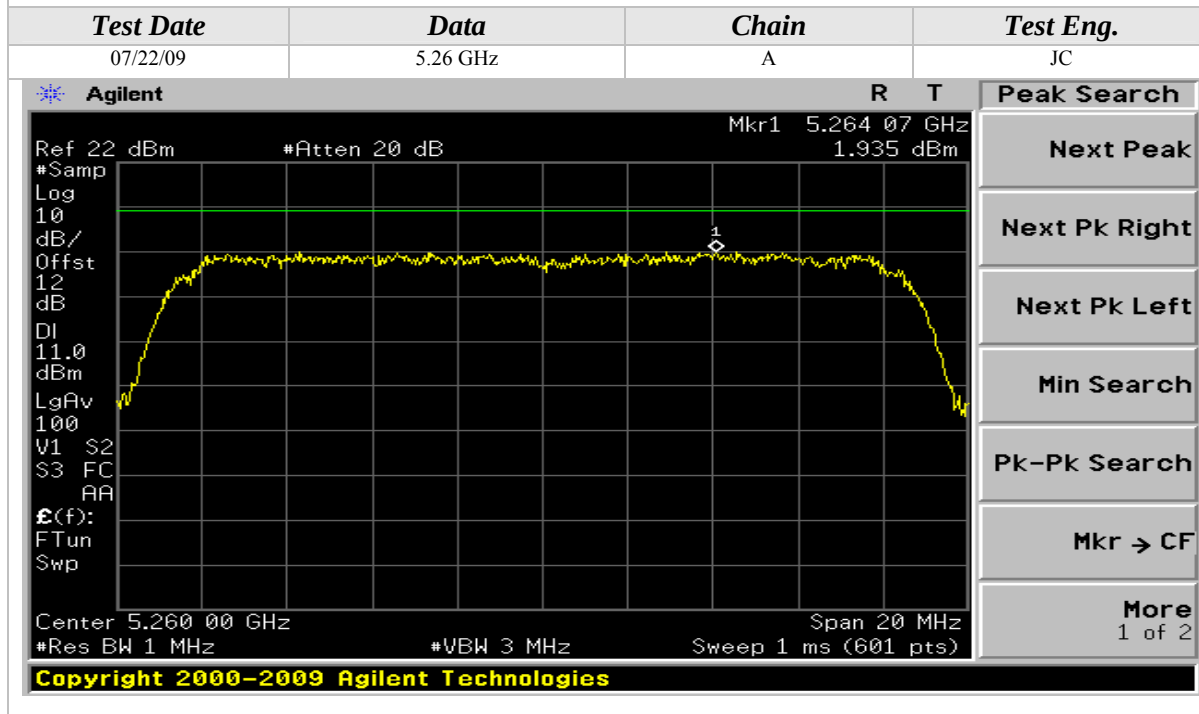
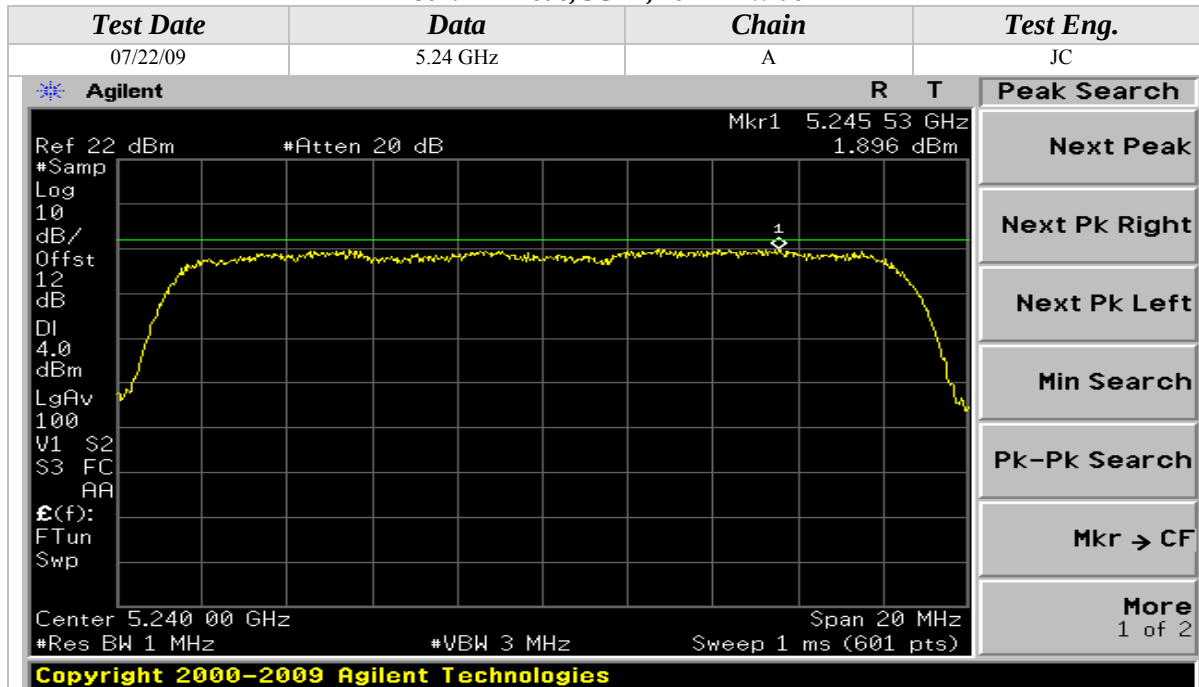
802.11n Mode, 5GHz, 20MHz Wide





Peak Power Spectral Density (Continued)

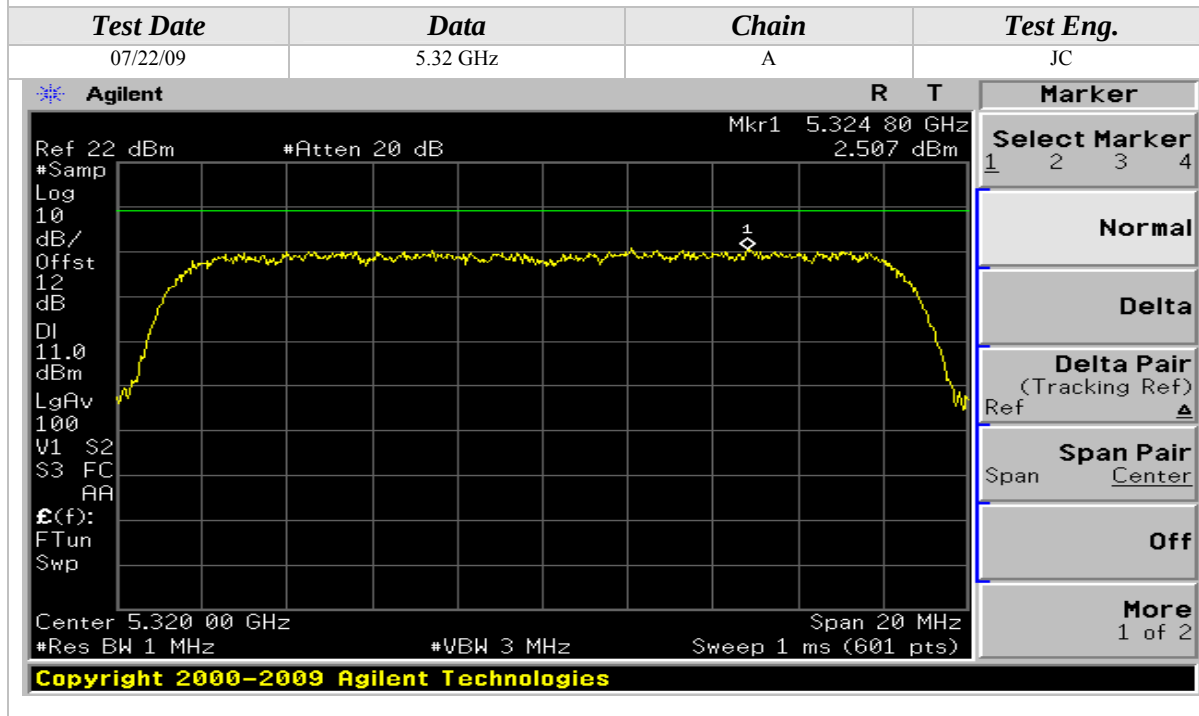
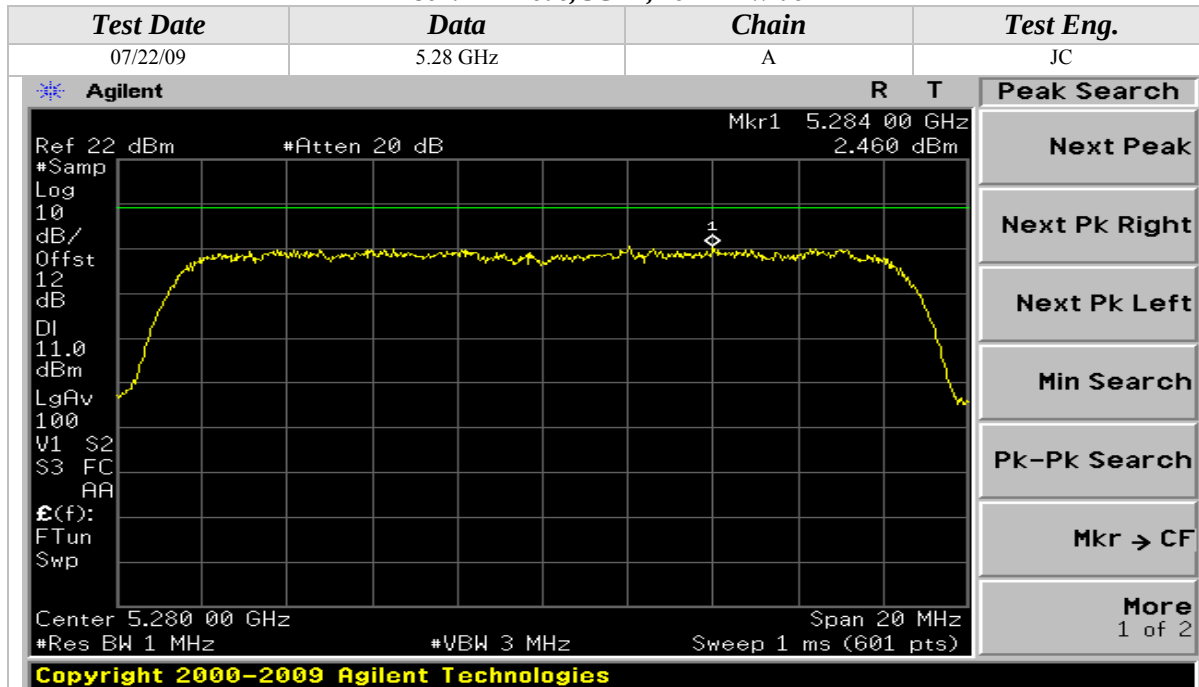
802.11n Mode, 5GHz, 20MHz Wide





Peak Power Spectral Density (Continued)

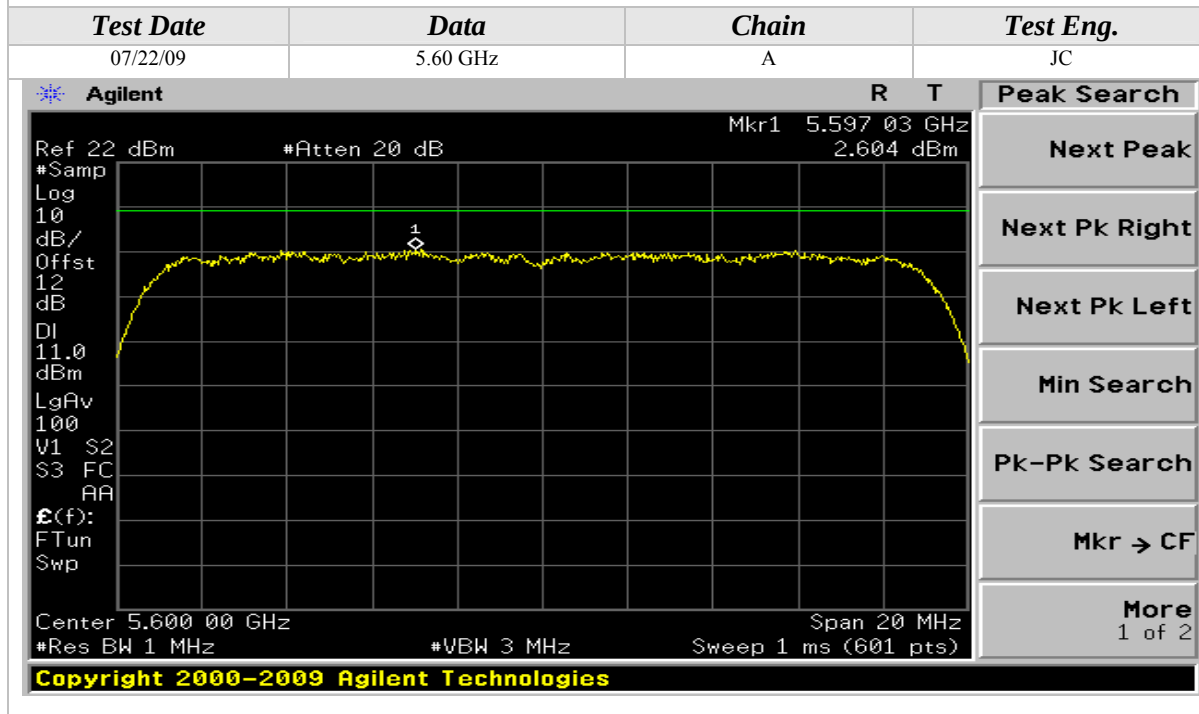
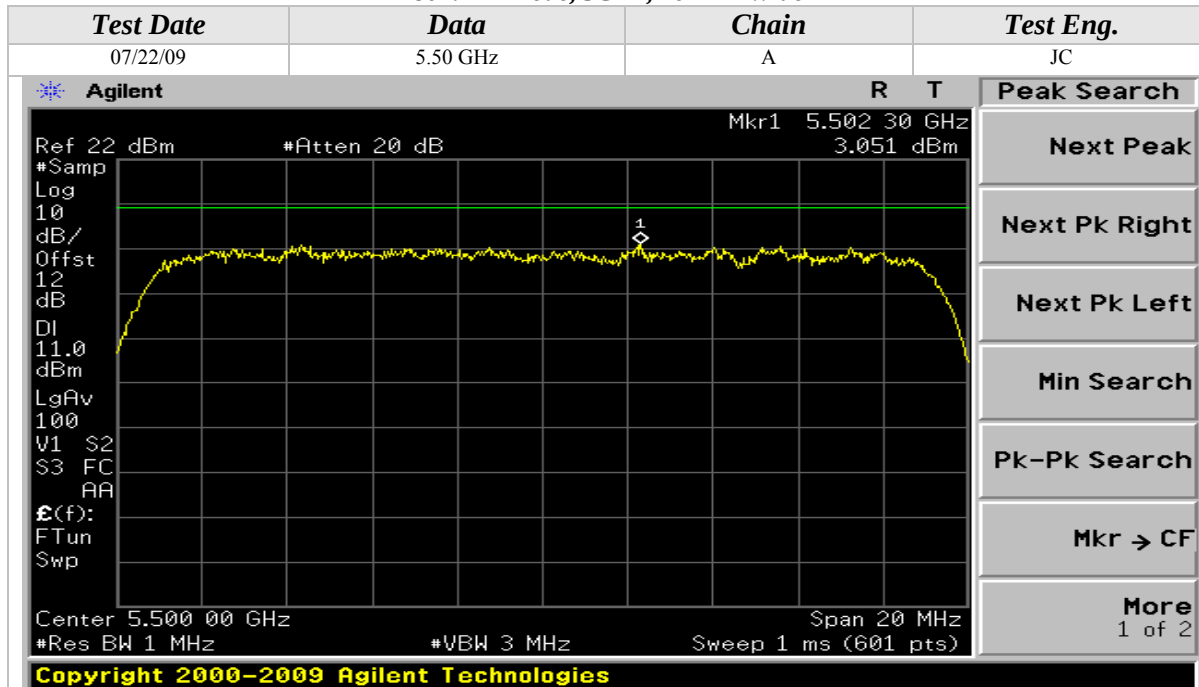
802.11n Mode, 5GHz, 20MHz Wide





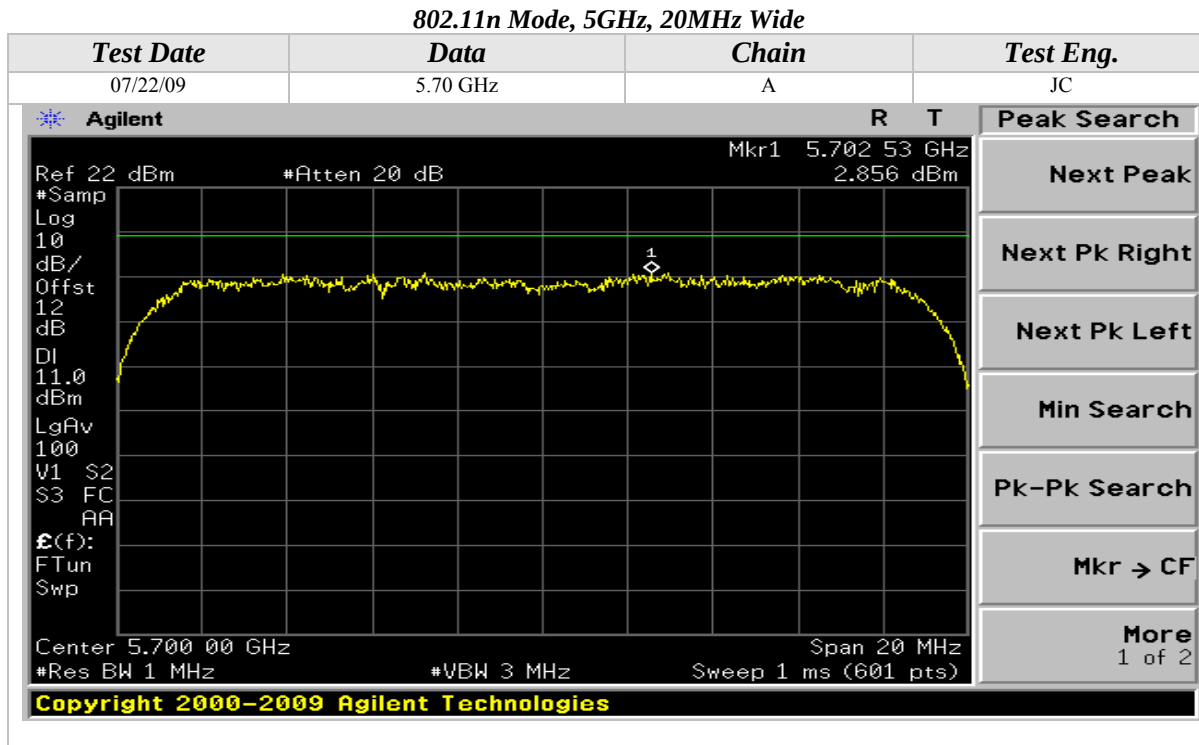
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 20MHz Wide





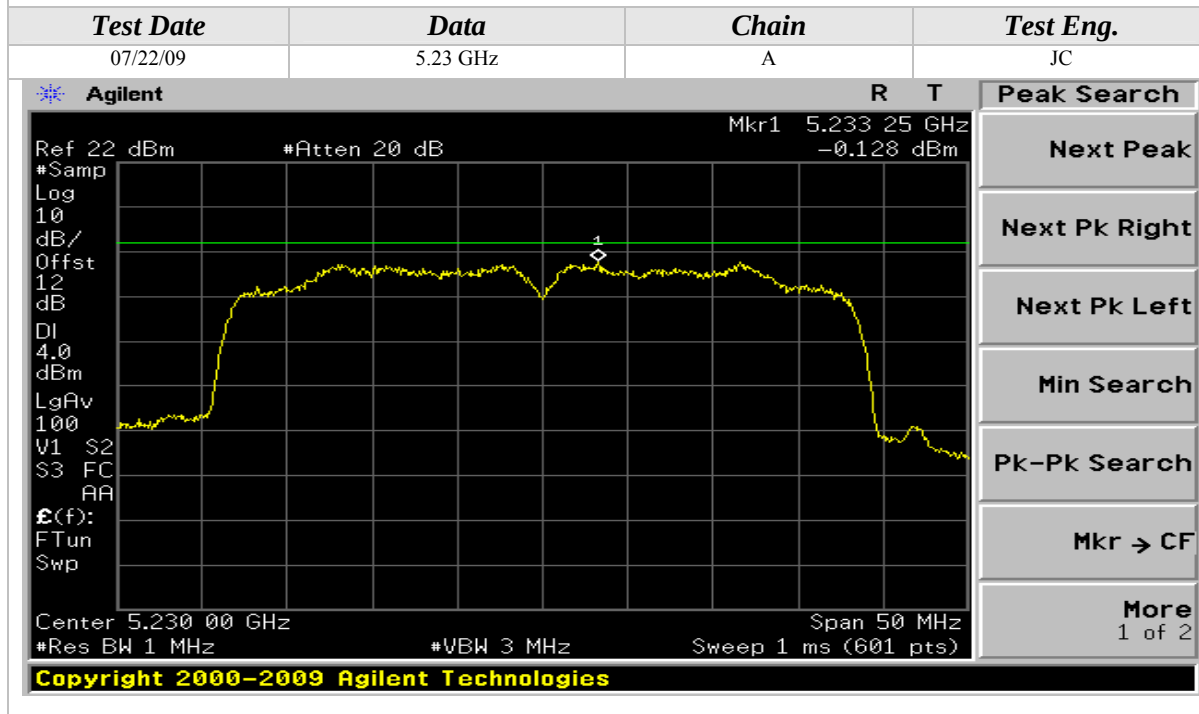
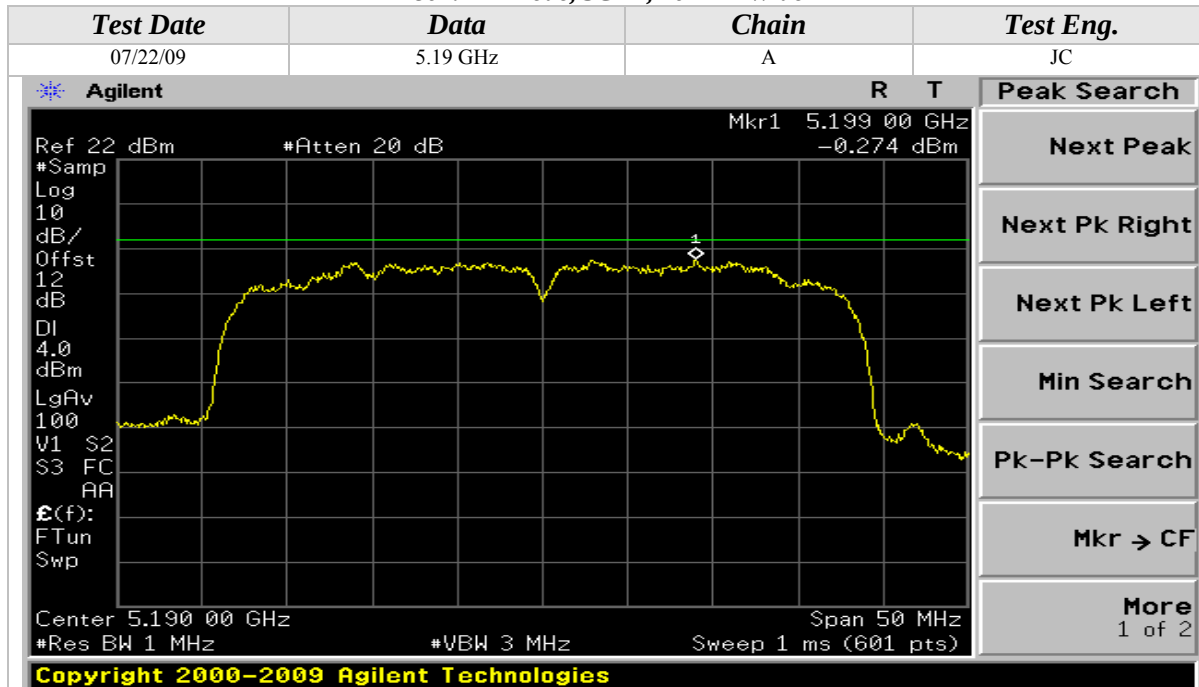
Peak Power Spectral Density (Continued)





Peak Power Spectral Density (Continued)

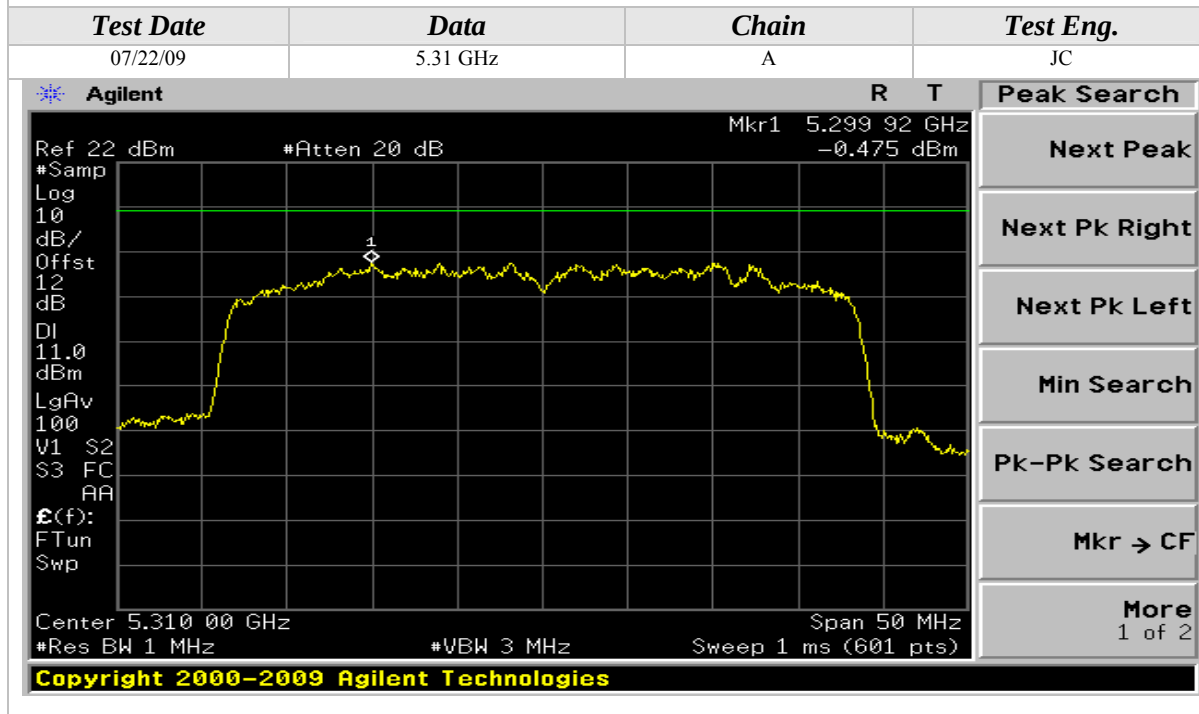
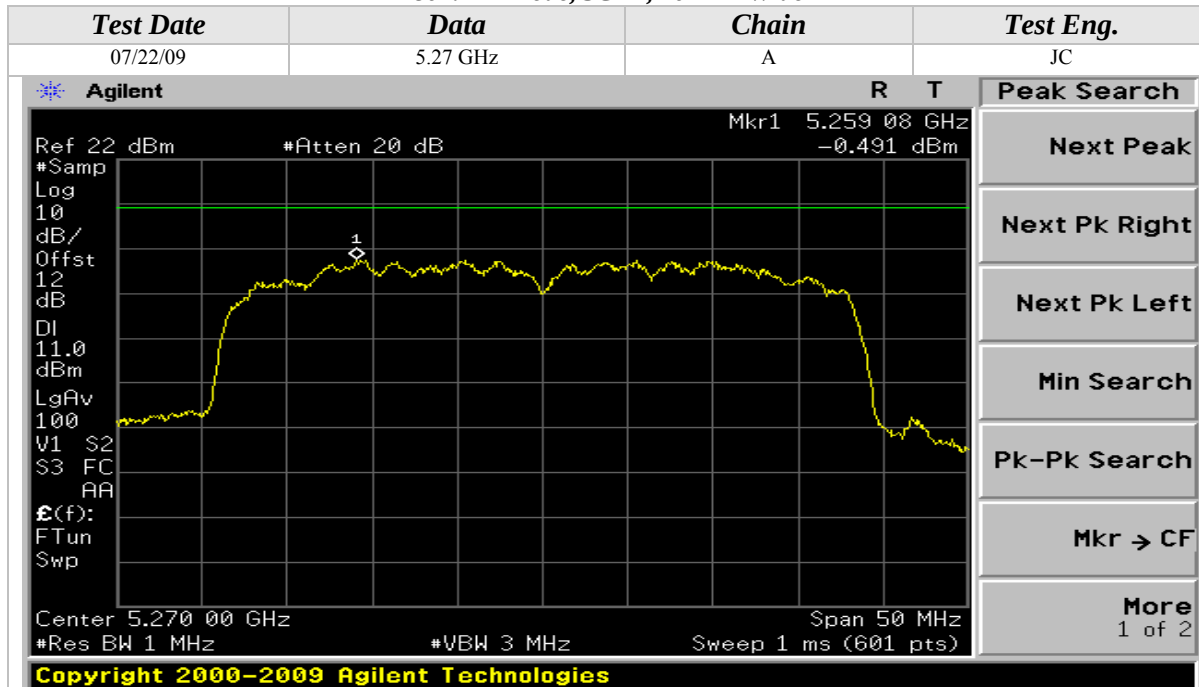
802.11n Mode, 5GHz, 40MHz Wide





Peak Power Spectral Density (Continued)

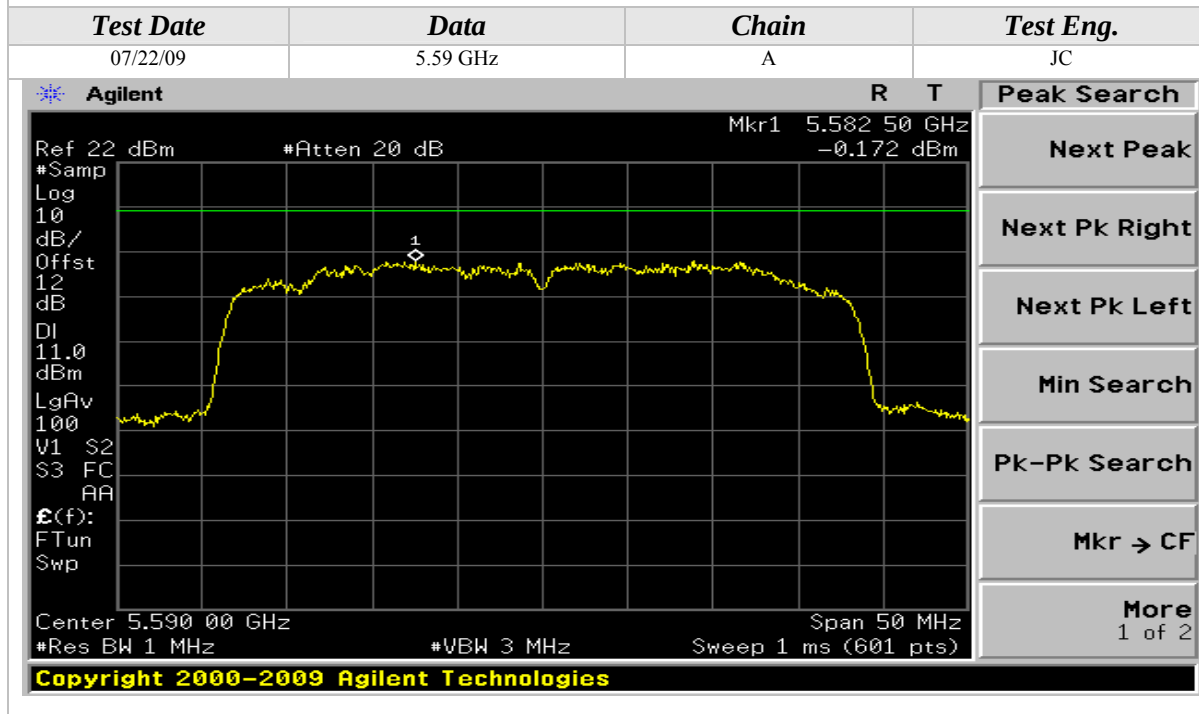
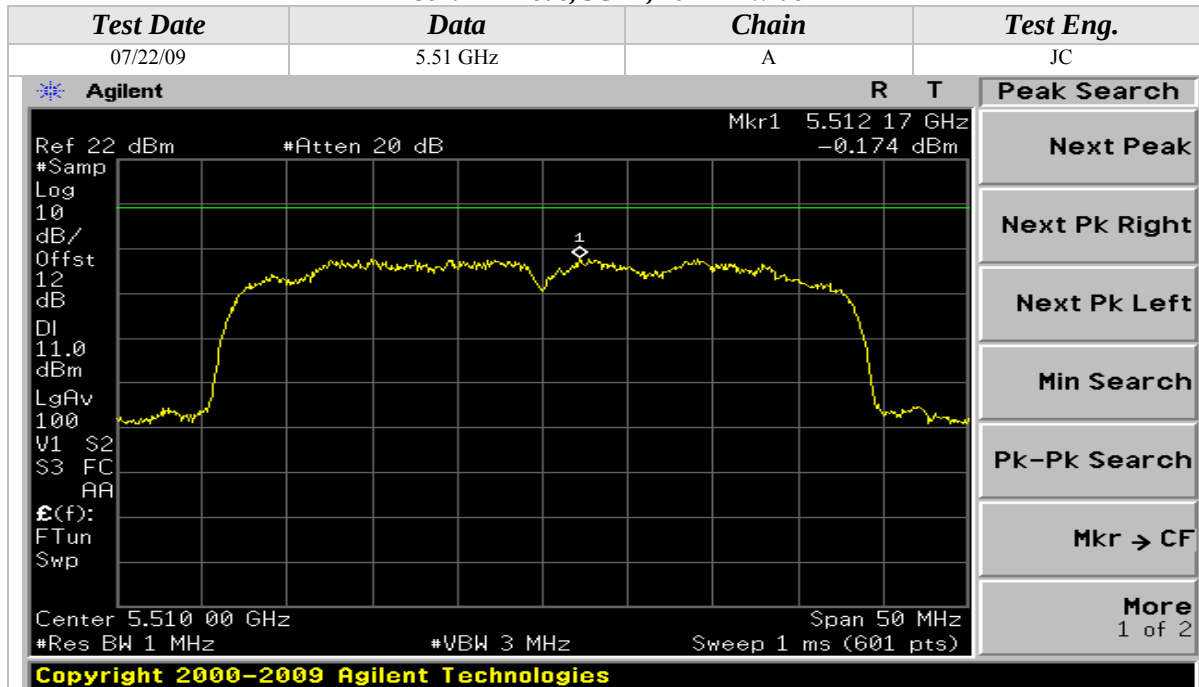
802.11n Mode, 5GHz, 40MHz Wide





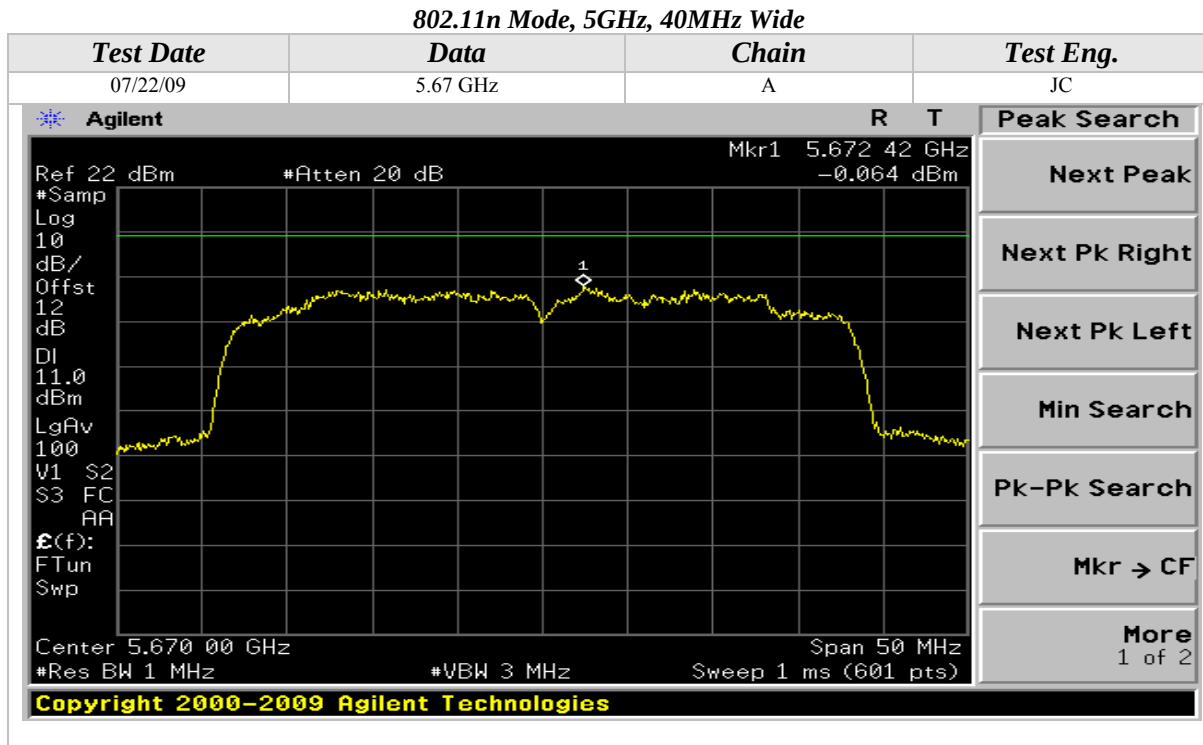
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 40MHz Wide





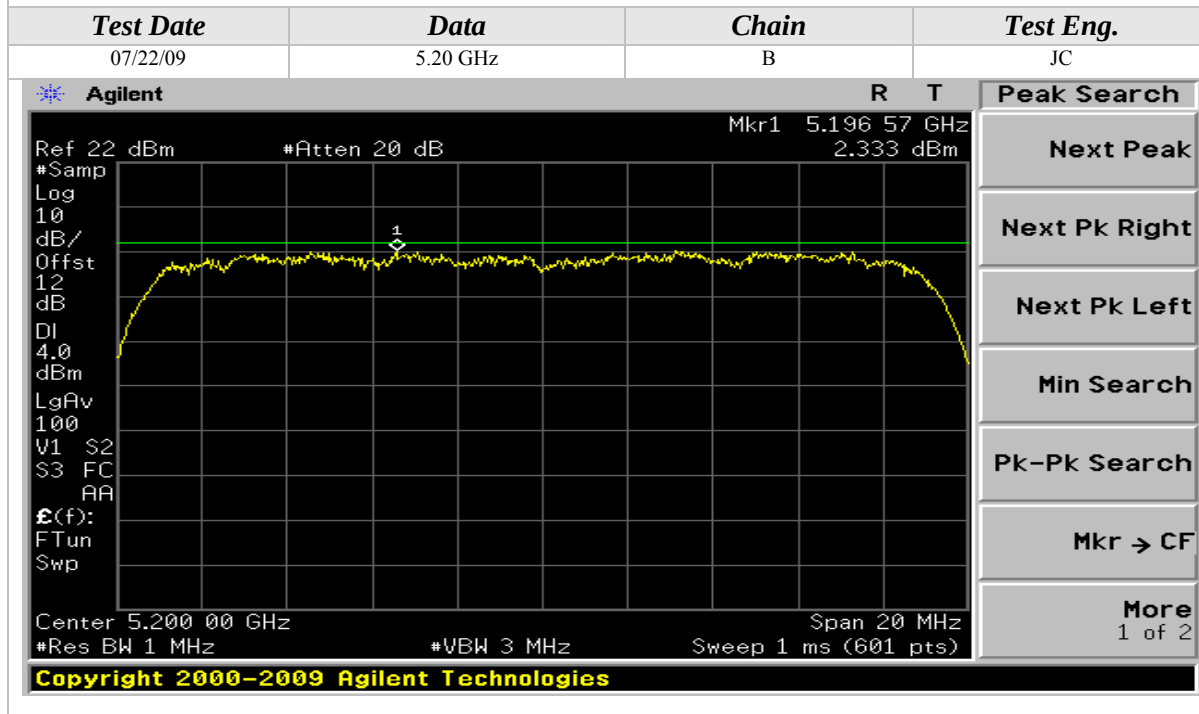
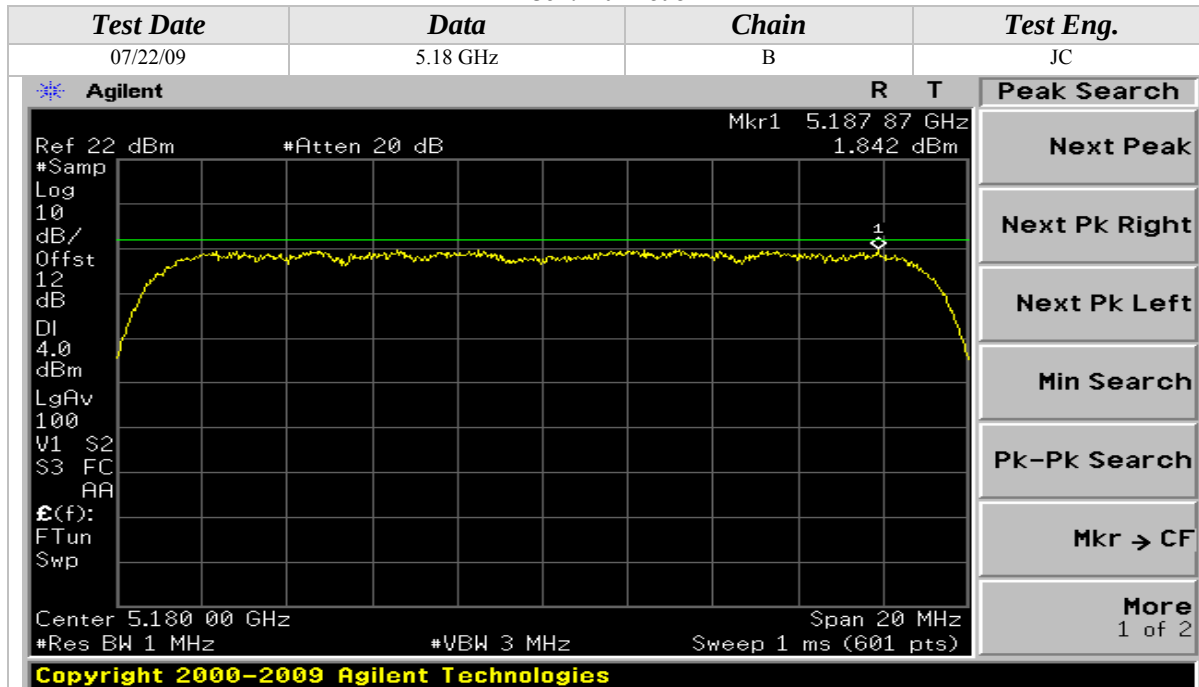
Peak Power Spectral Density (Continued)





Peak Power Spectral Density (Continued)

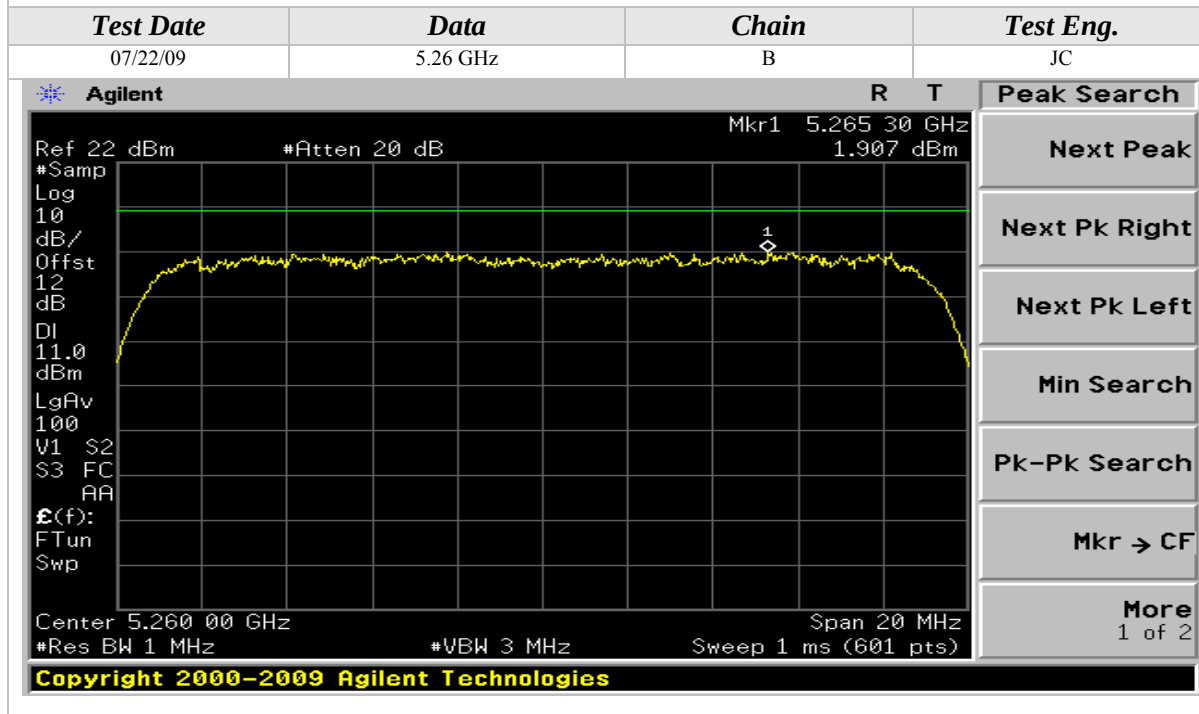
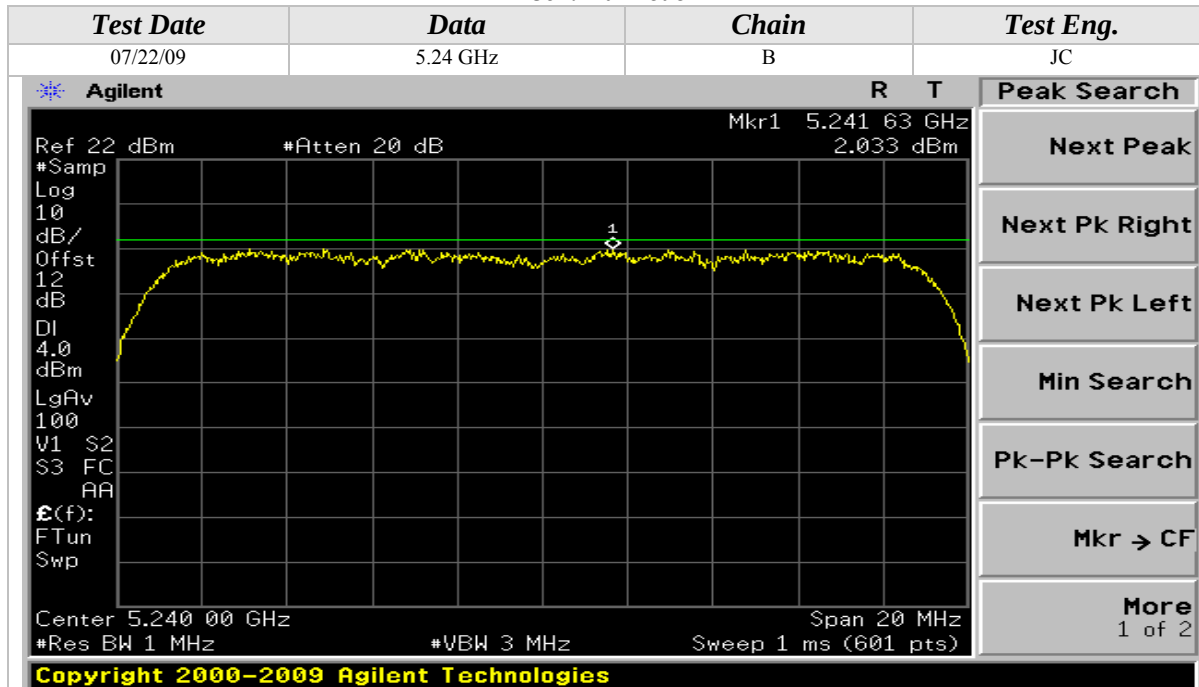
802.11a Mode





Peak Power Spectral Density (Continued)

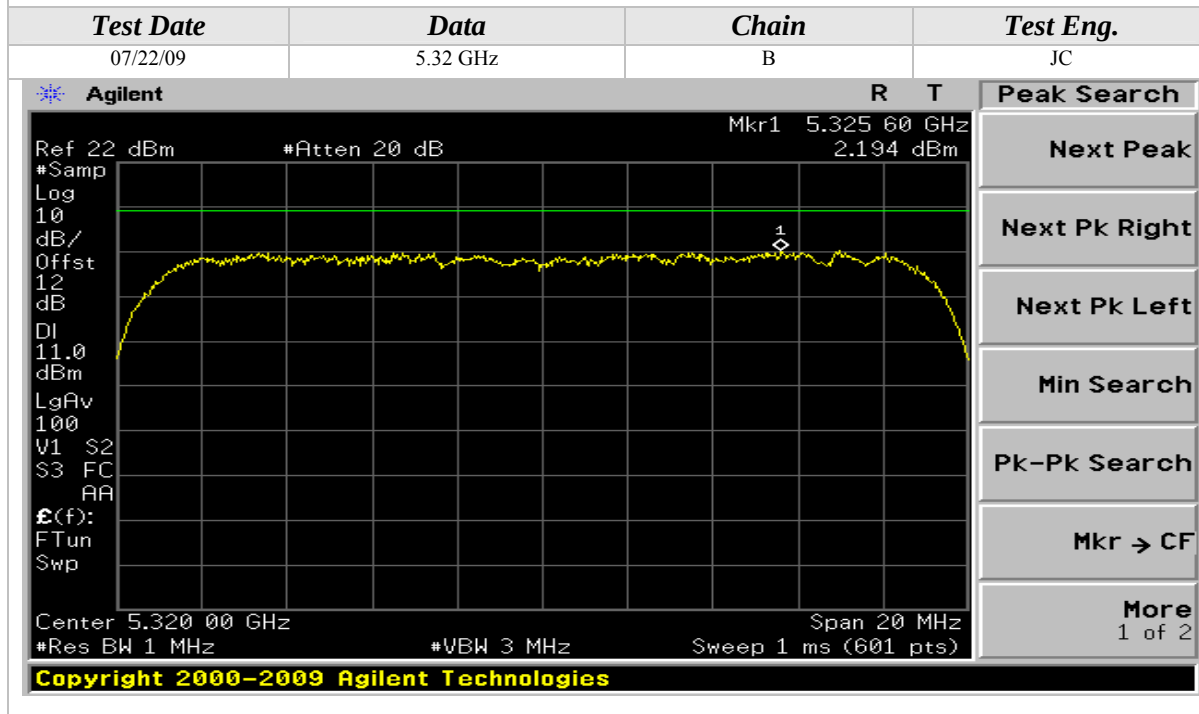
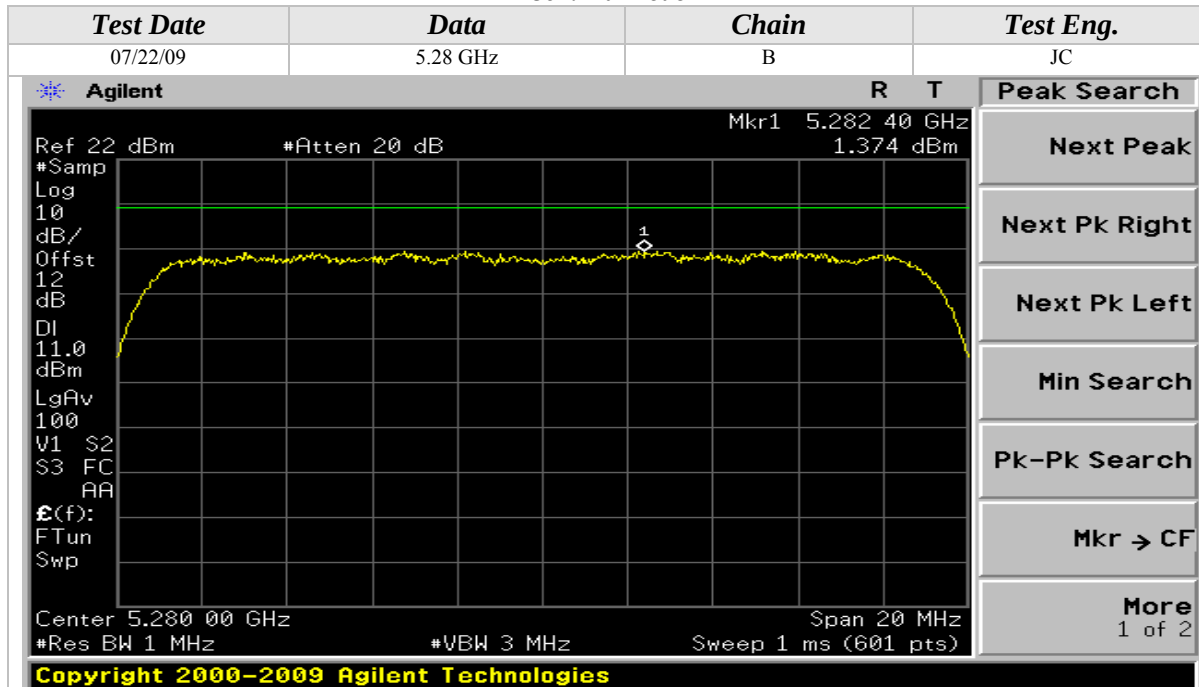
802.11a Mode





Peak Power Spectral Density (Continued)

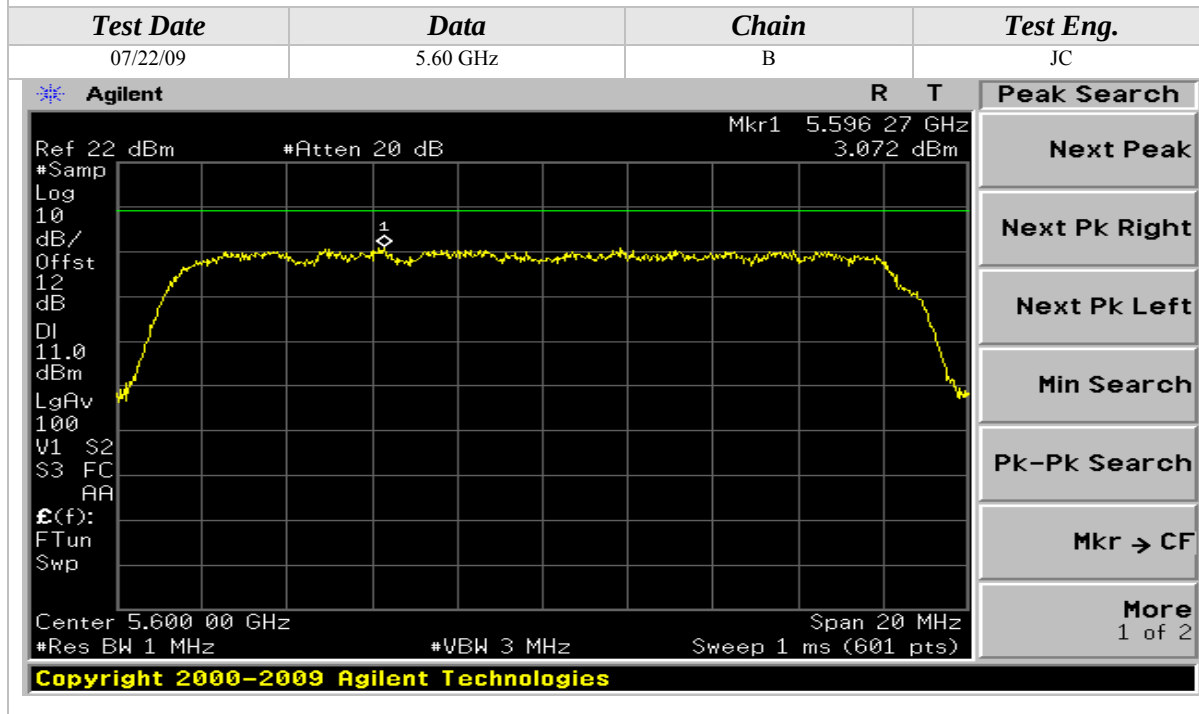
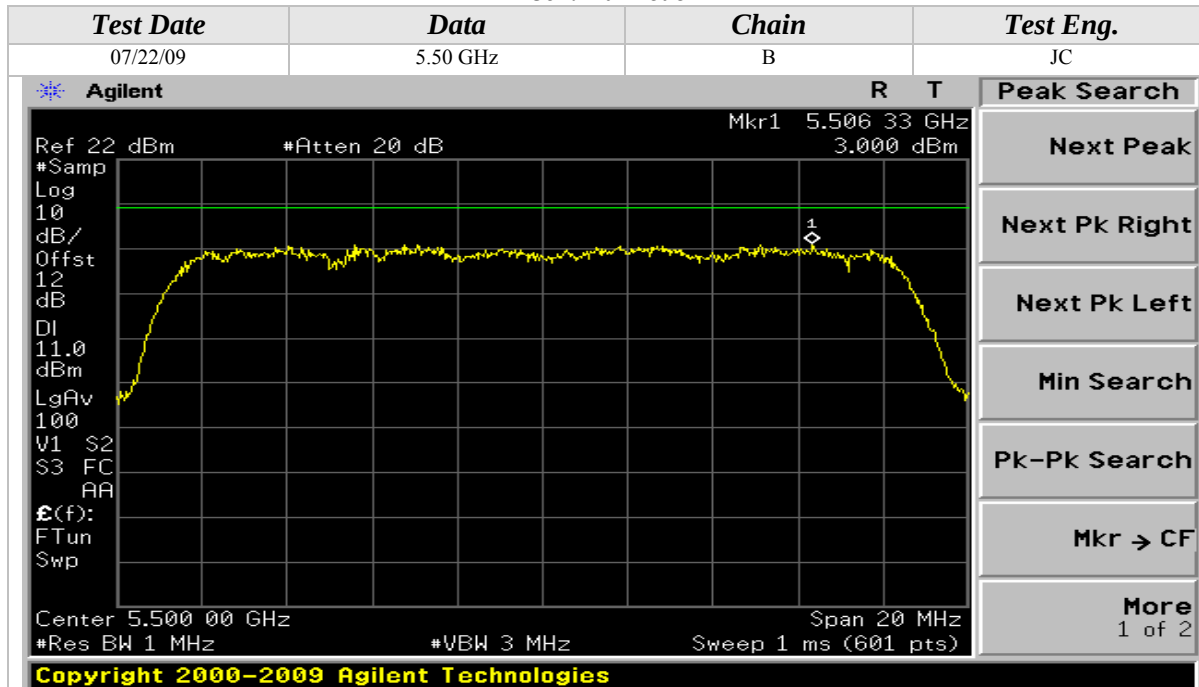
802.11a Mode





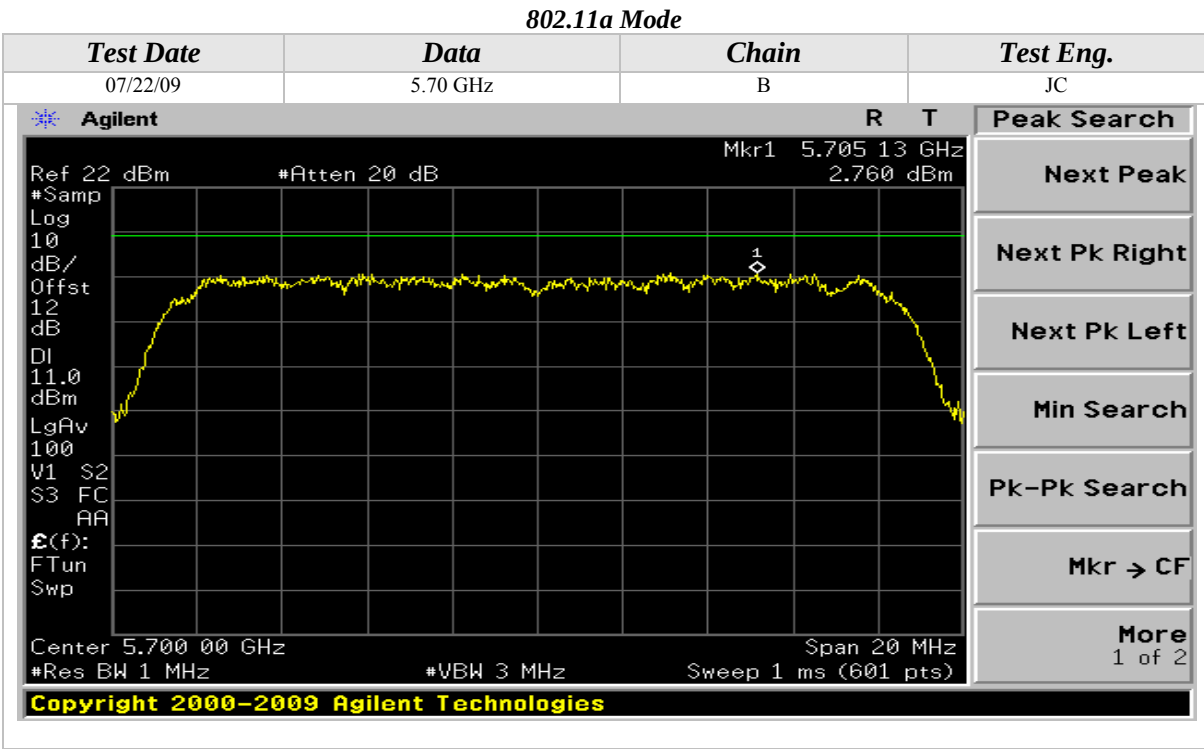
Peak Power Spectral Density (Continued)

802.11a Mode





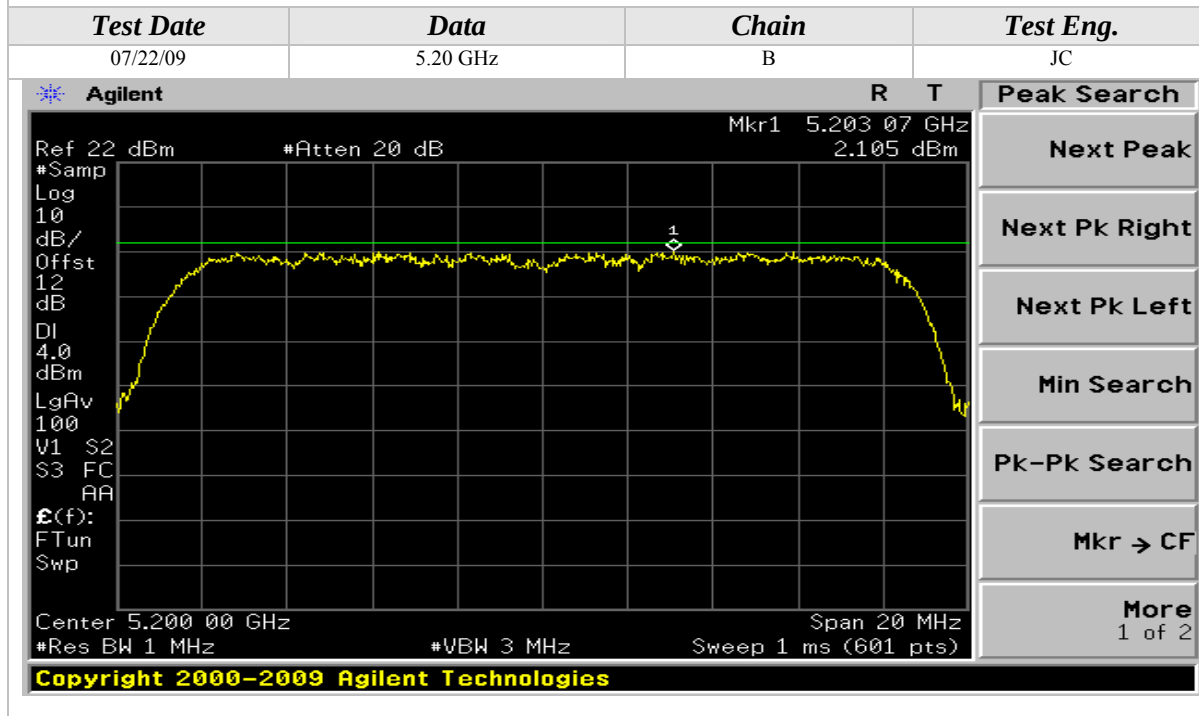
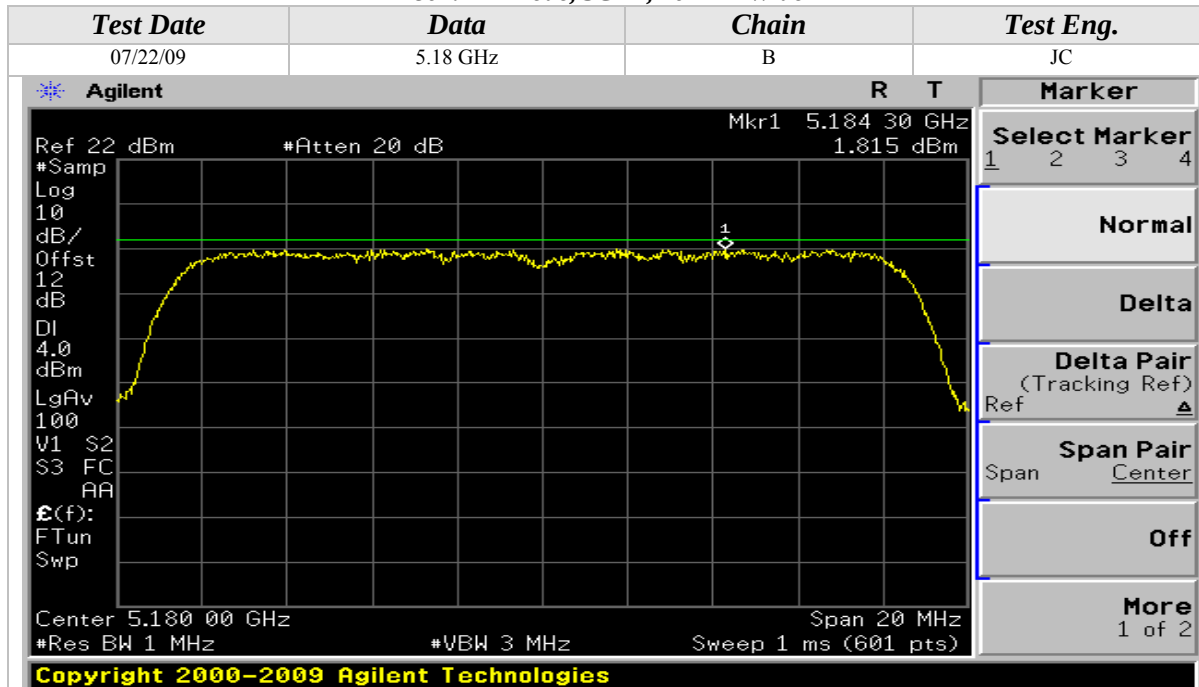
Peak Power Spectral Density (Continued)





Peak Power Spectral Density (Continued)

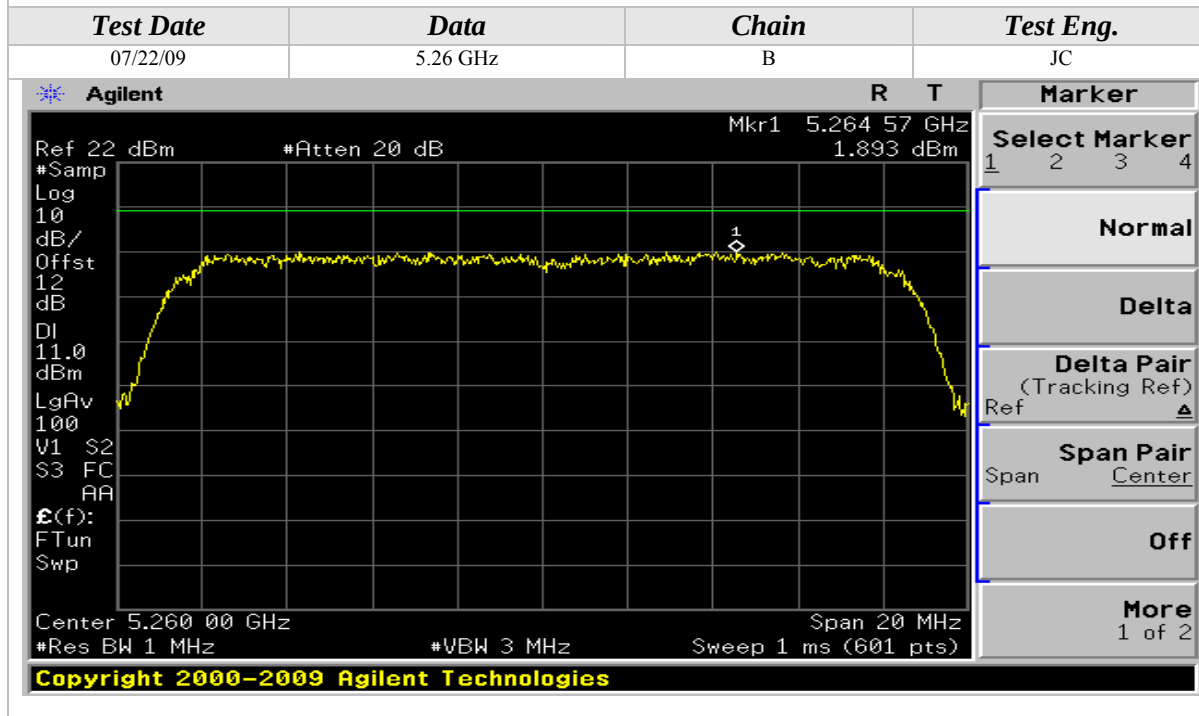
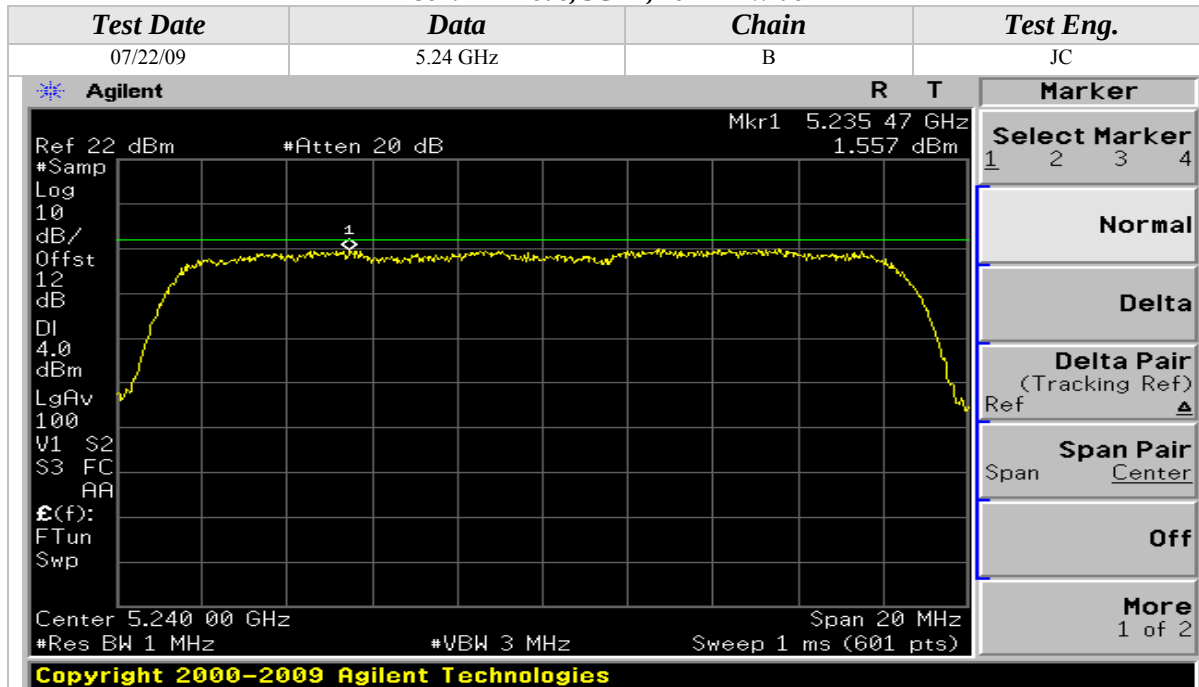
802.11n Mode, 5GHz, 20MHz Wide





Peak Power Spectral Density (Continued)

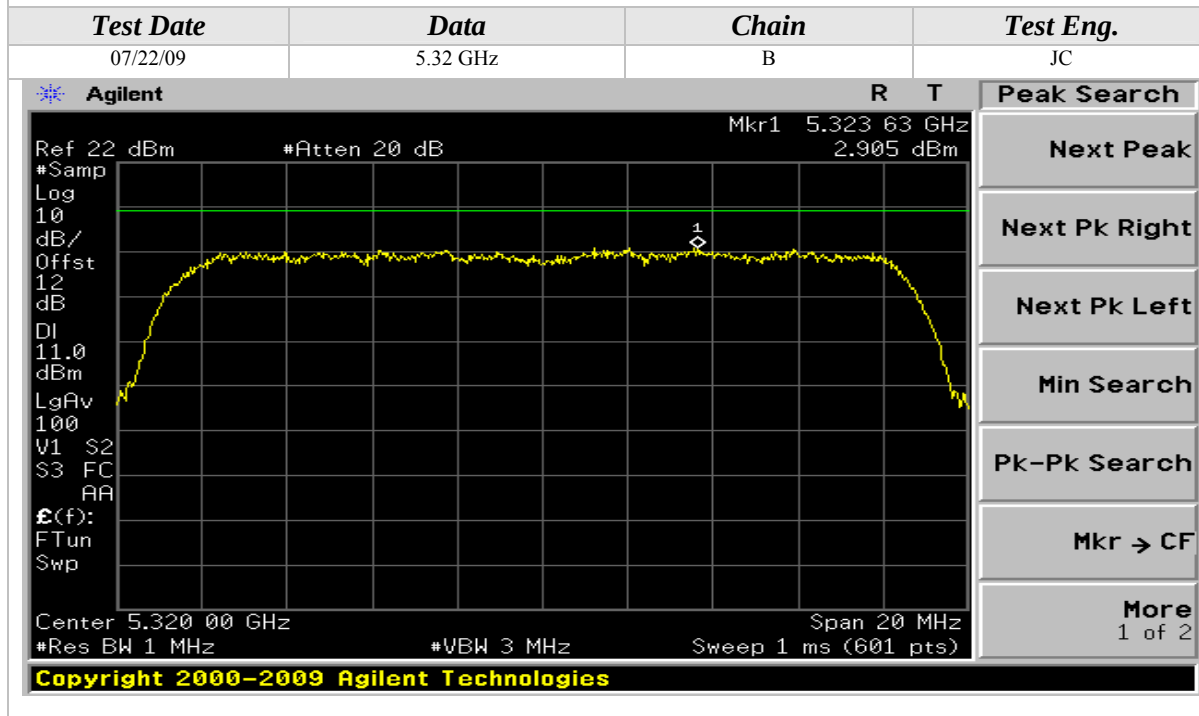
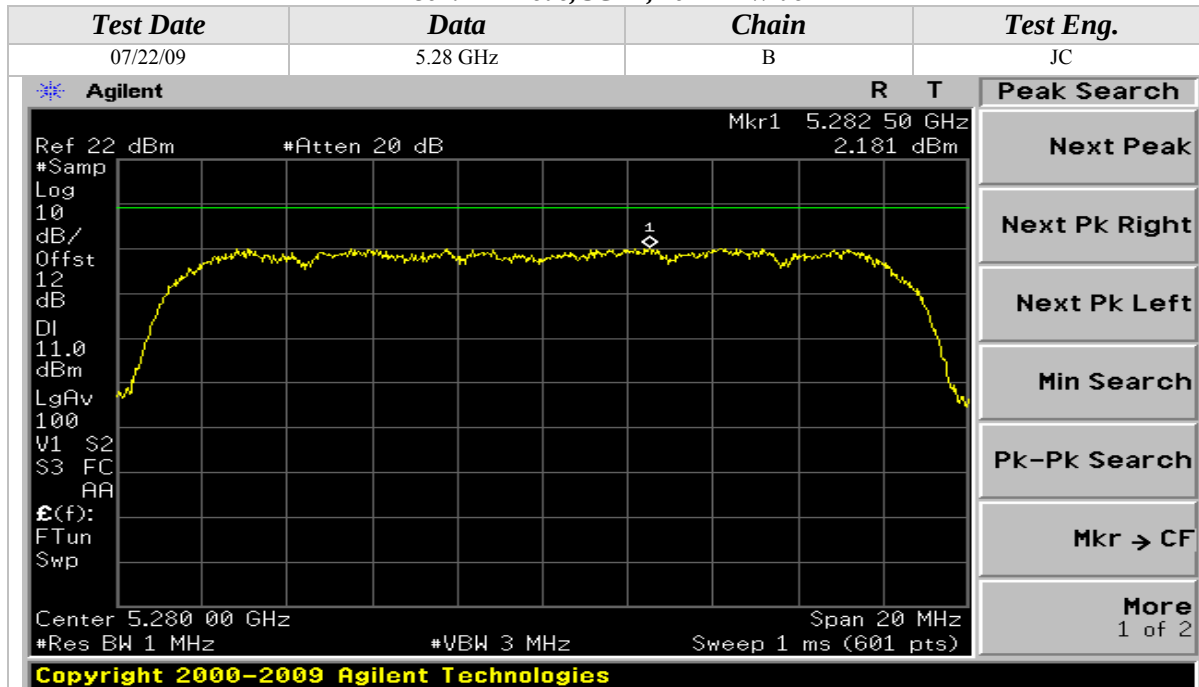
802.11n Mode, 5GHz, 20MHz Wide





Peak Power Spectral Density (Continued)

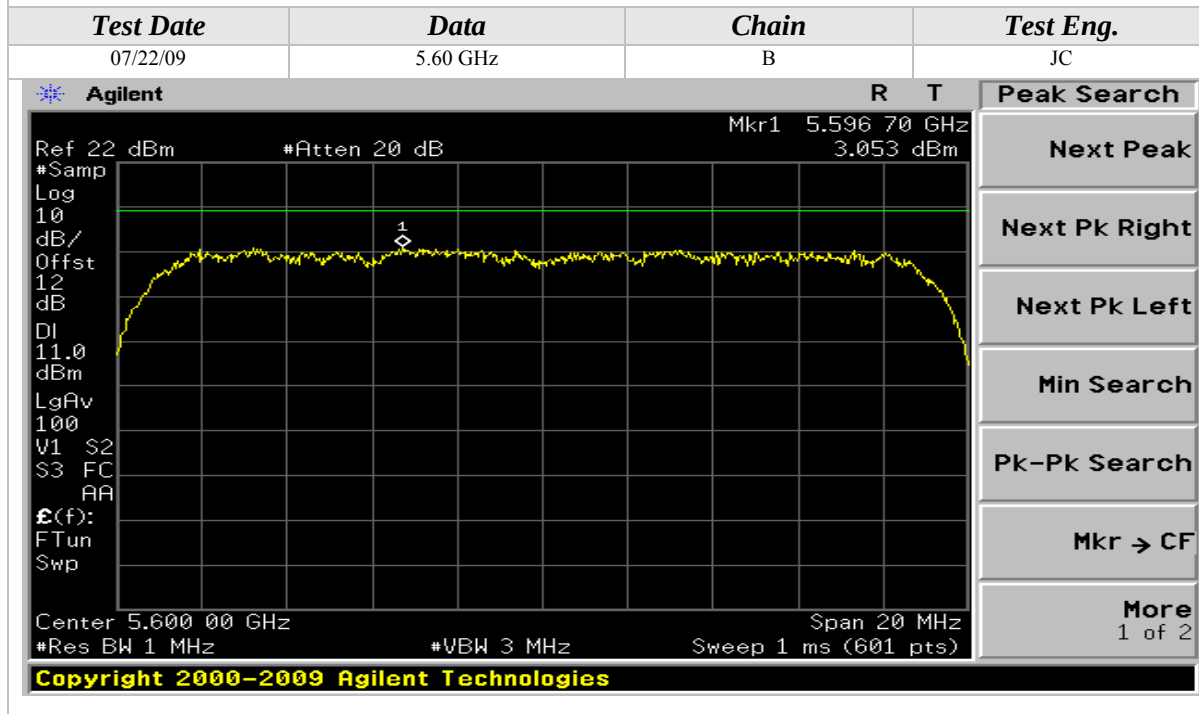
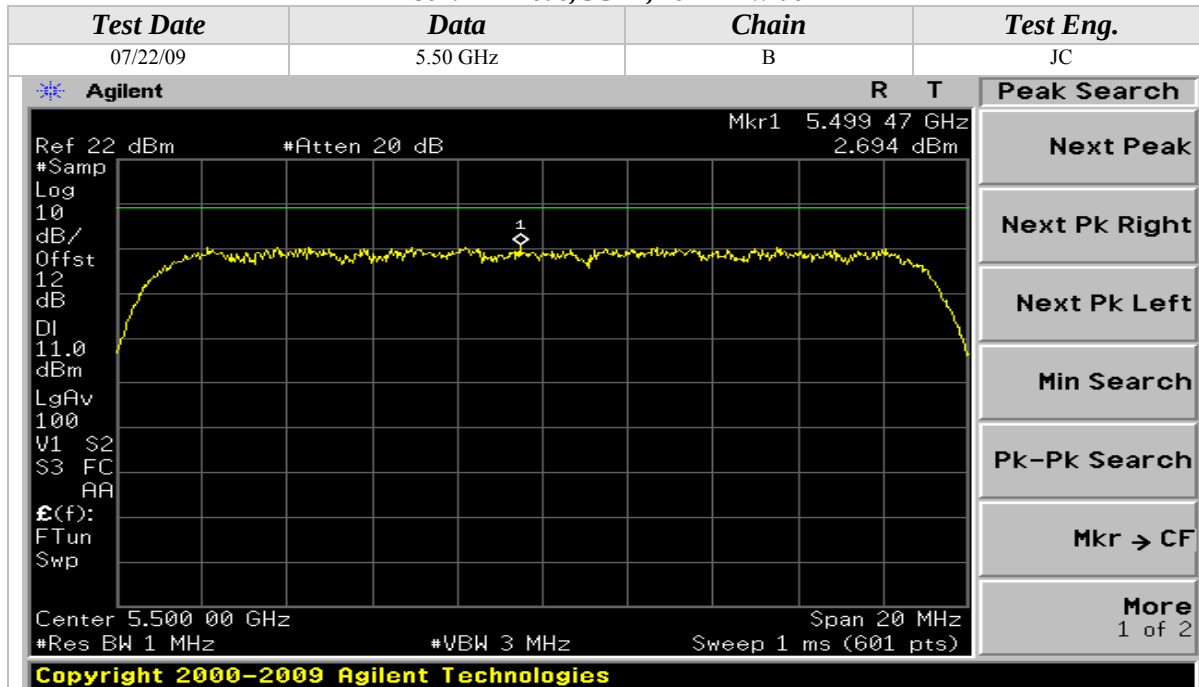
802.11n Mode, 5GHz, 20MHz Wide





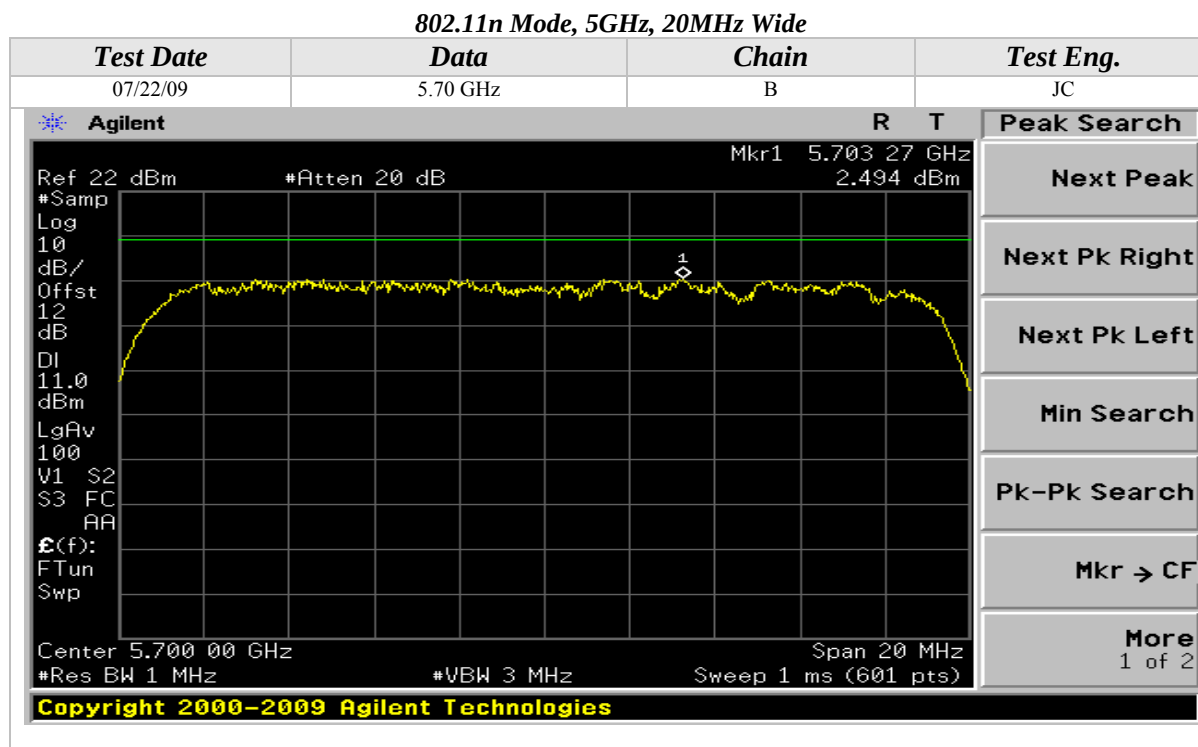
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 20MHz Wide





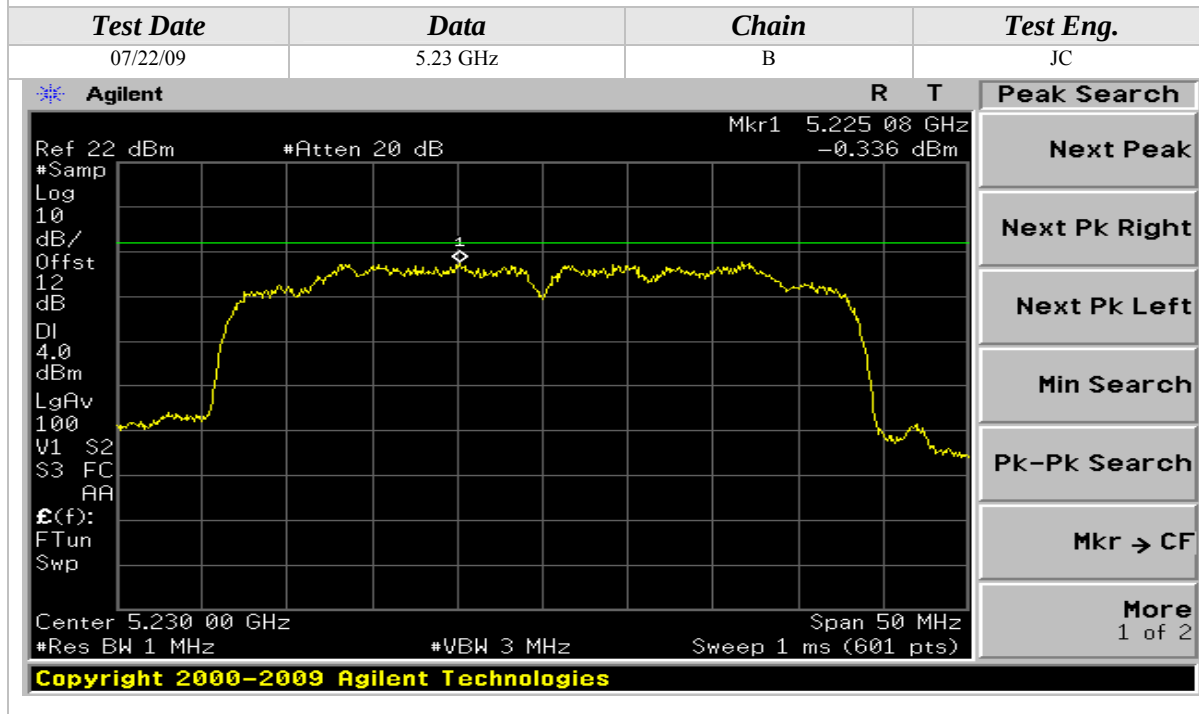
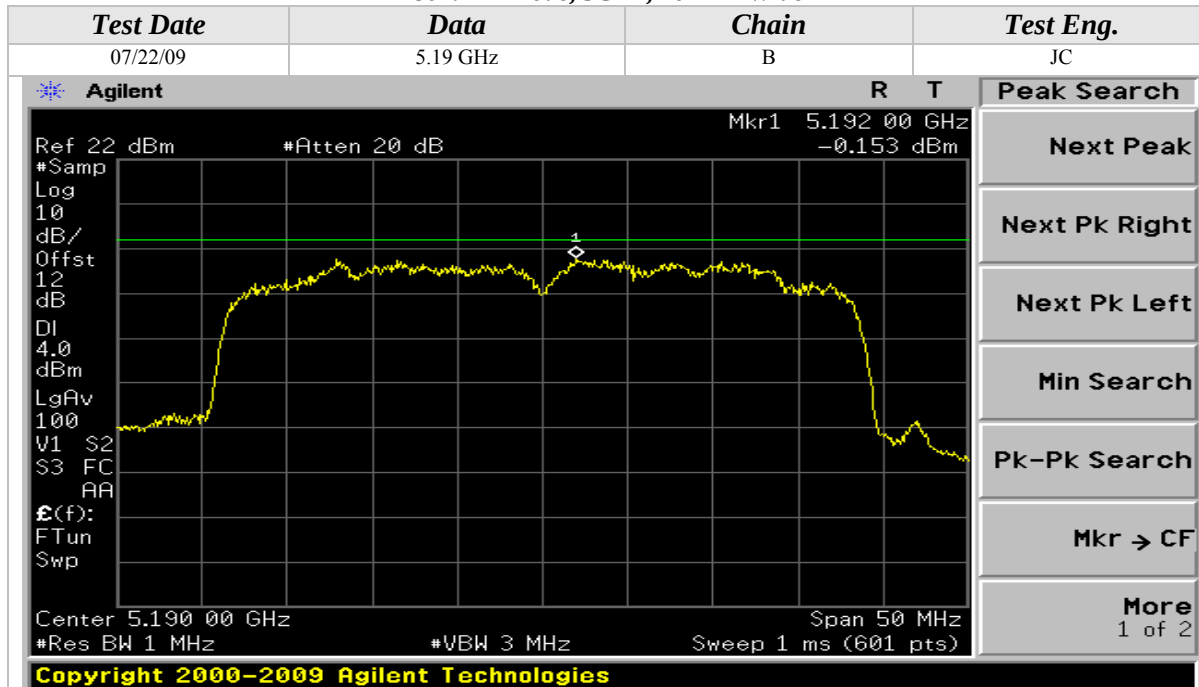
Peak Power Spectral Density (Continued)





Peak Power Spectral Density (Continued)

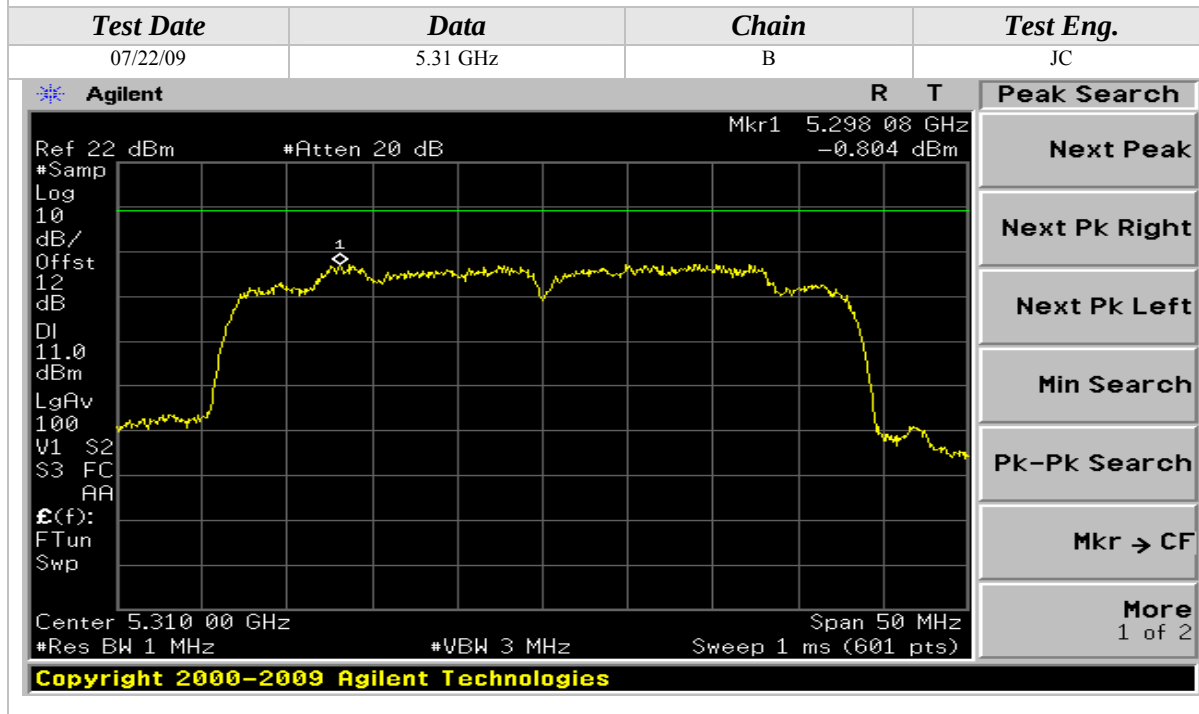
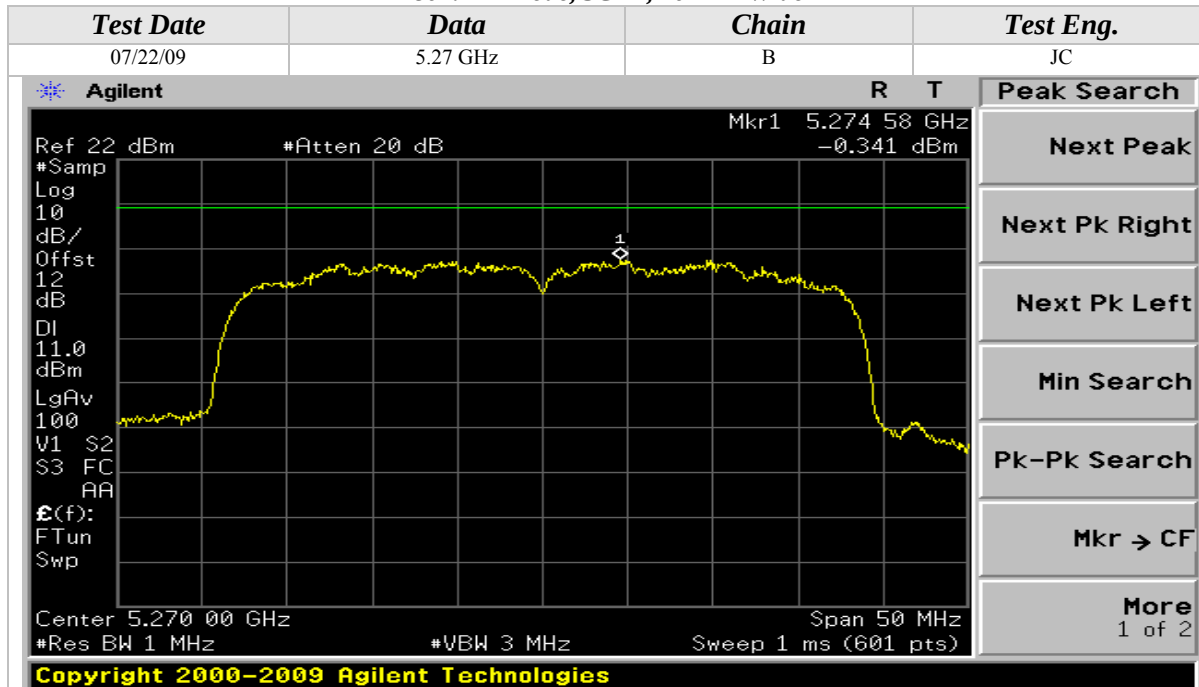
802.11n Mode, 5GHz, 40MHz Wide





Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 40MHz Wide





Peak Power Spectral Density (Continued)

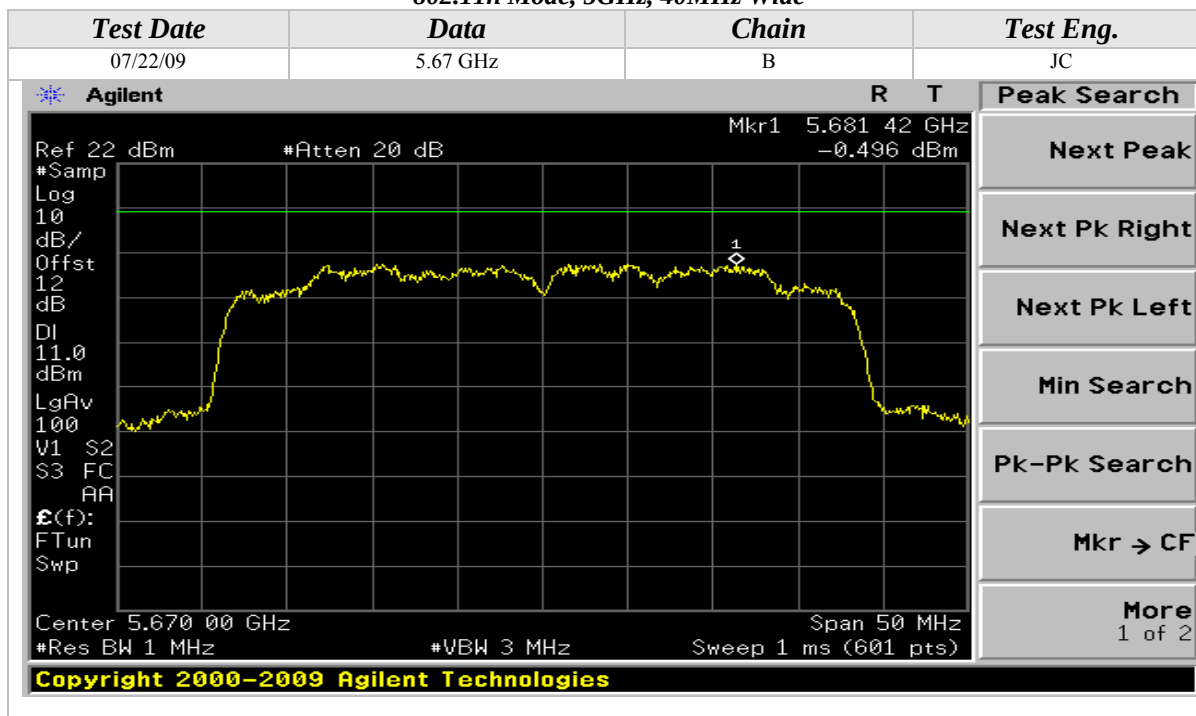
802.11n Mode, 5GHz, 40MHz Wide





Peak Power Spectral Density (Continued)

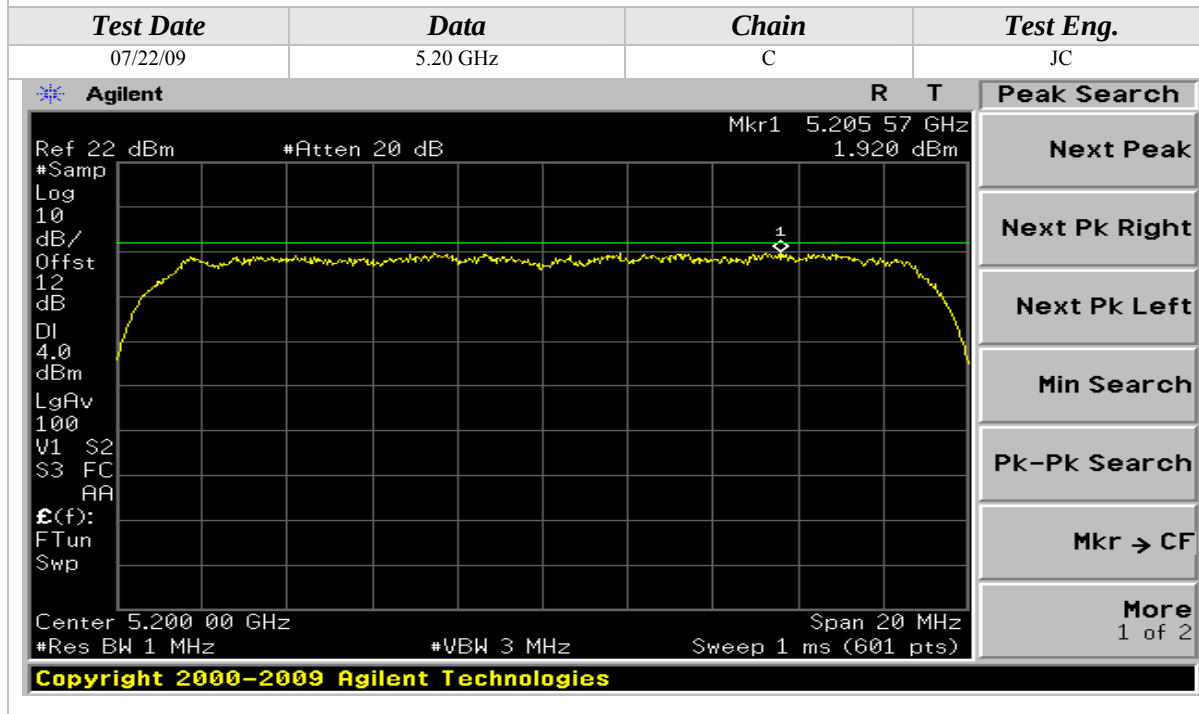
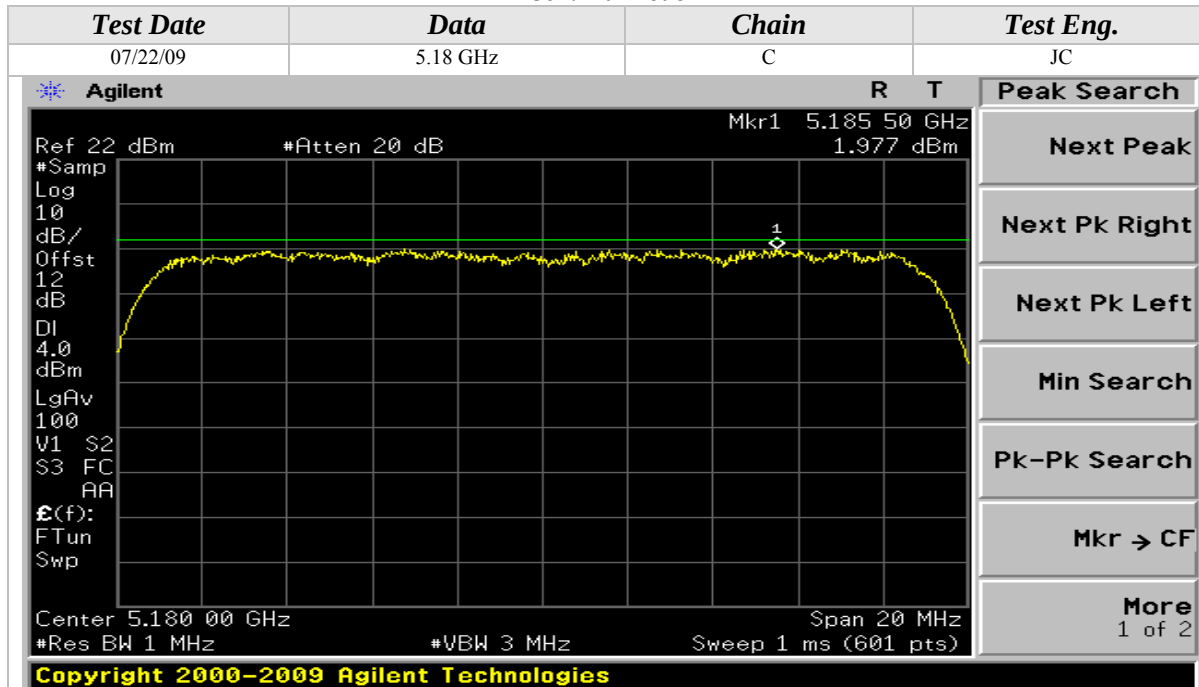
802.11n Mode, 5GHz, 40MHz Wide





Peak Power Spectral Density (Continued)

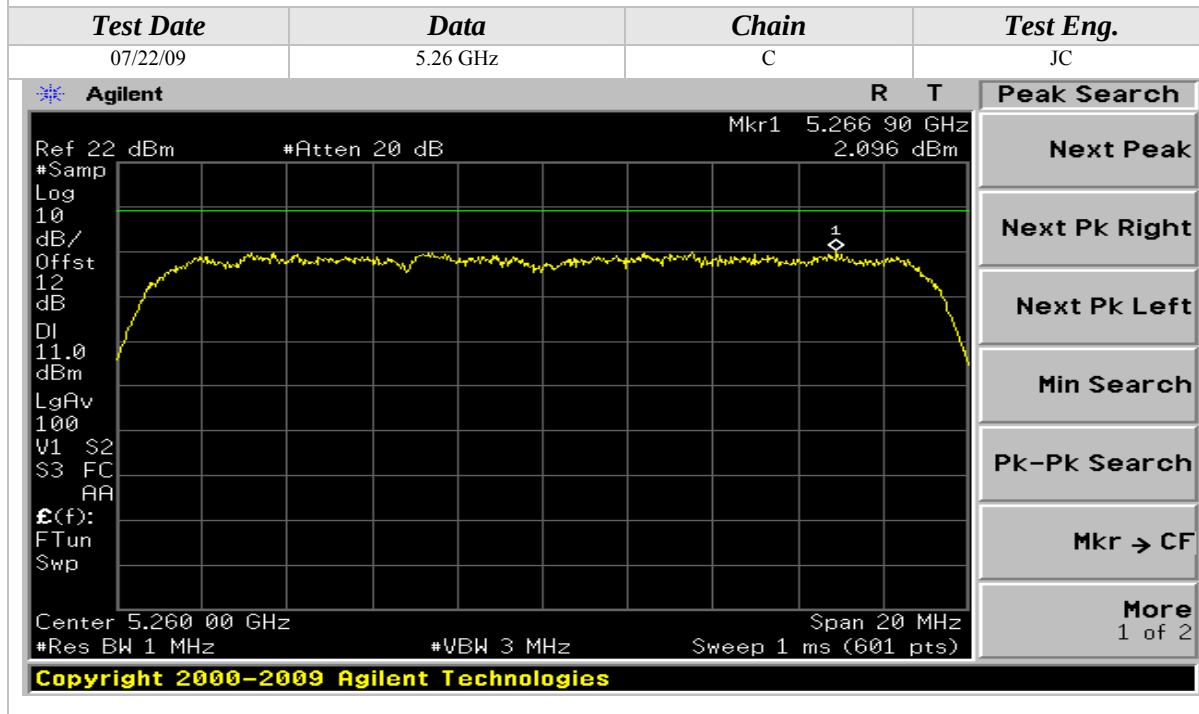
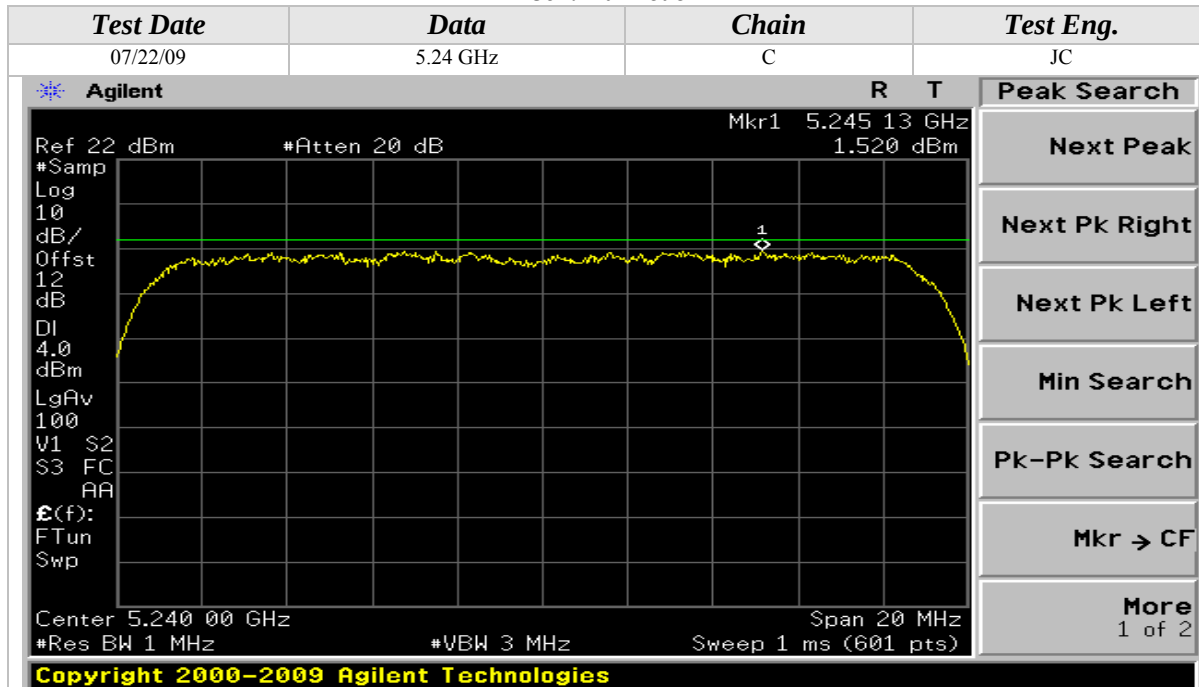
802.11a Mode





Peak Power Spectral Density (Continued)

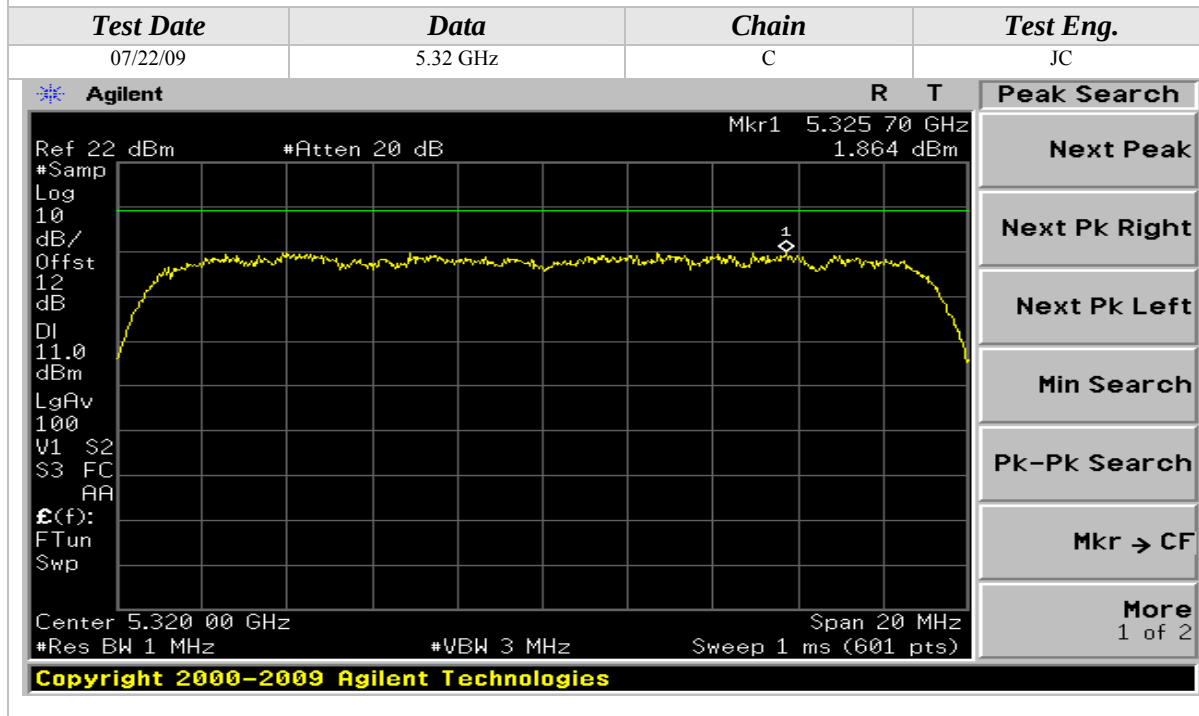
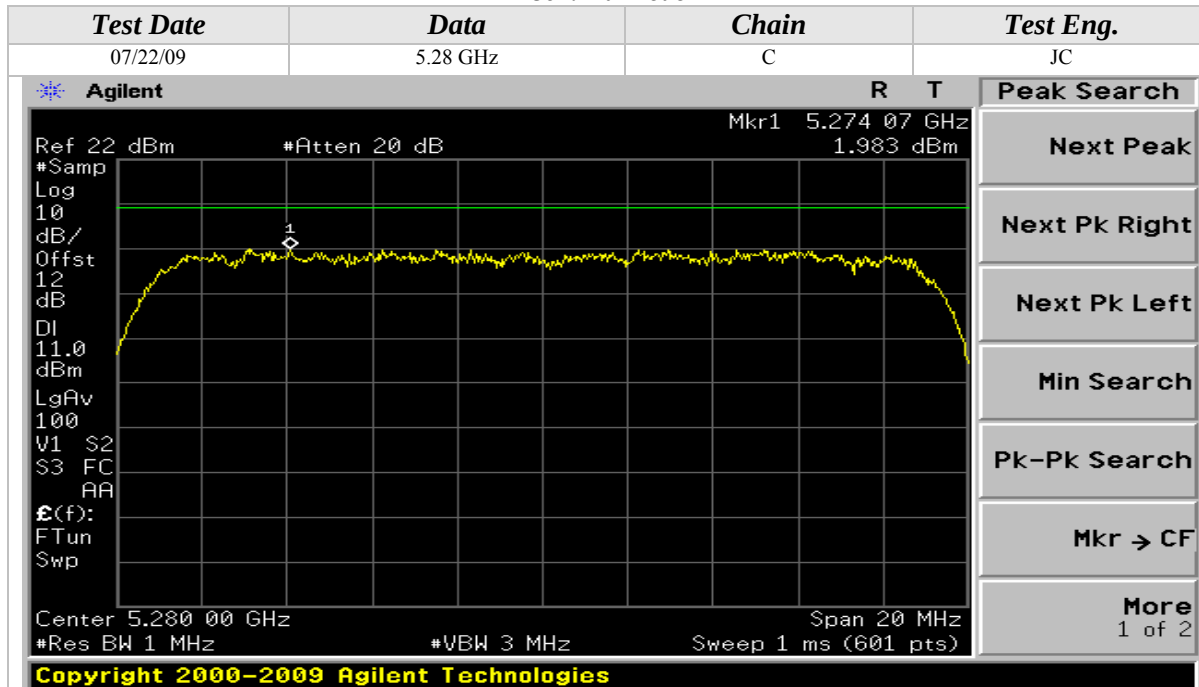
802.11a Mode





Peak Power Spectral Density (Continued)

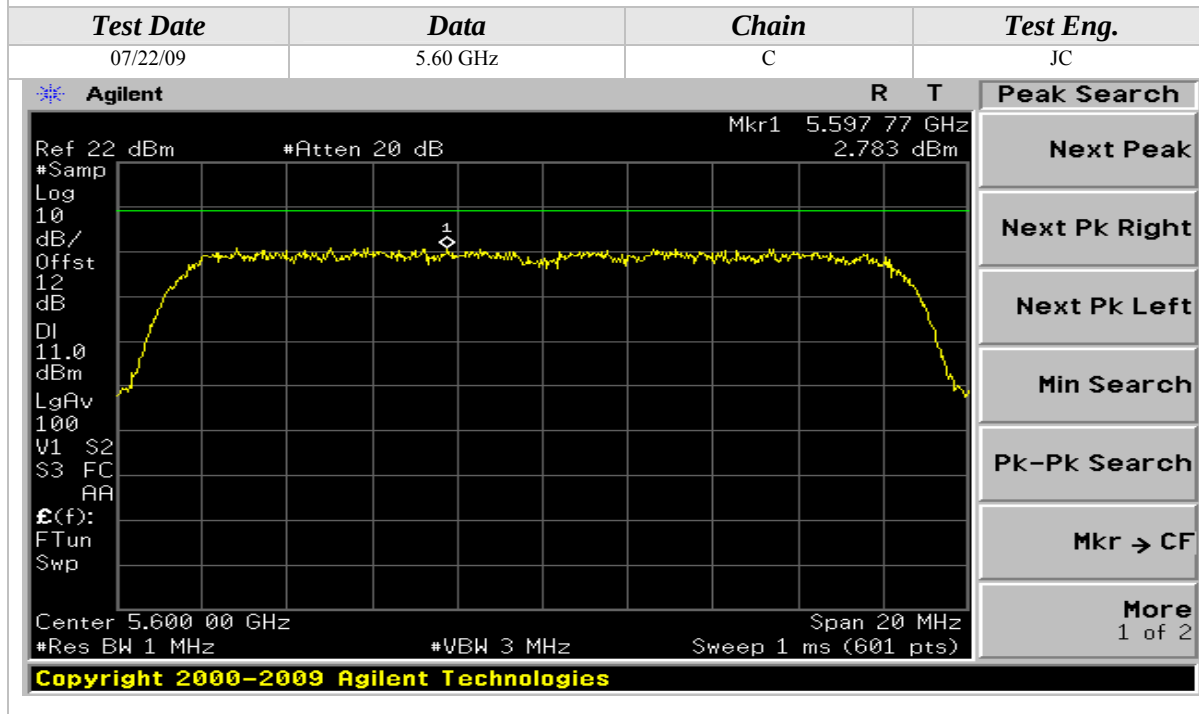
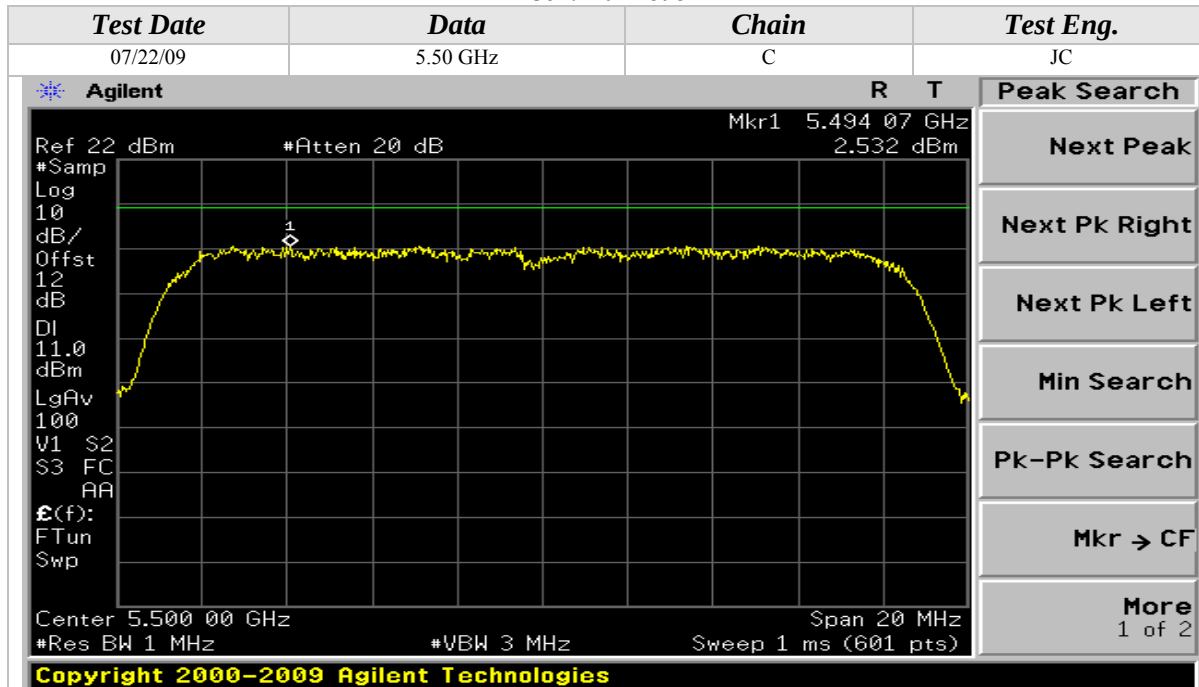
802.11a Mode





Peak Power Spectral Density (Continued)

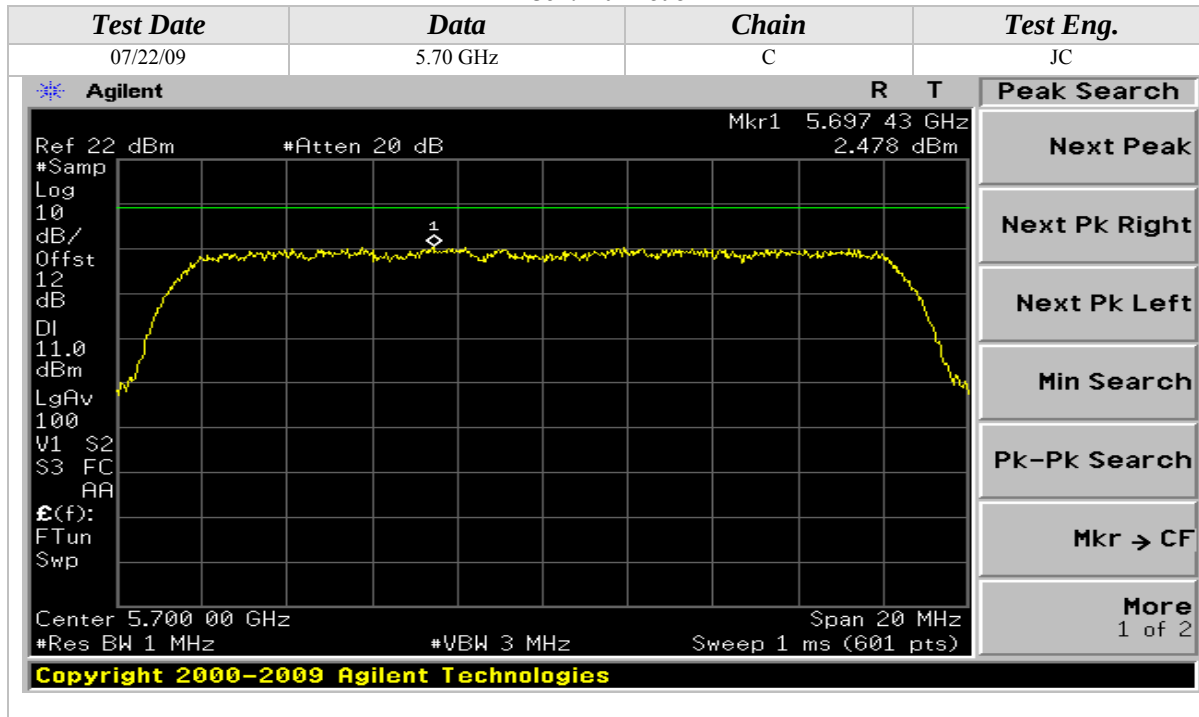
802.11a Mode





Peak Power Spectral Density (Continued)

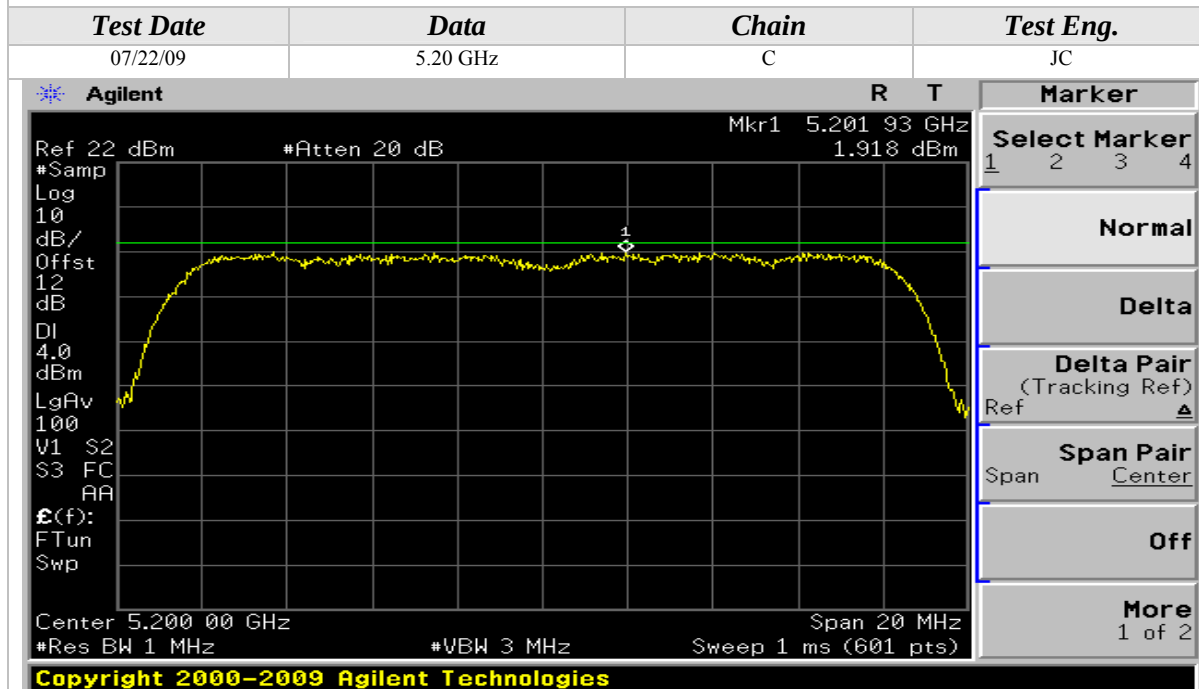
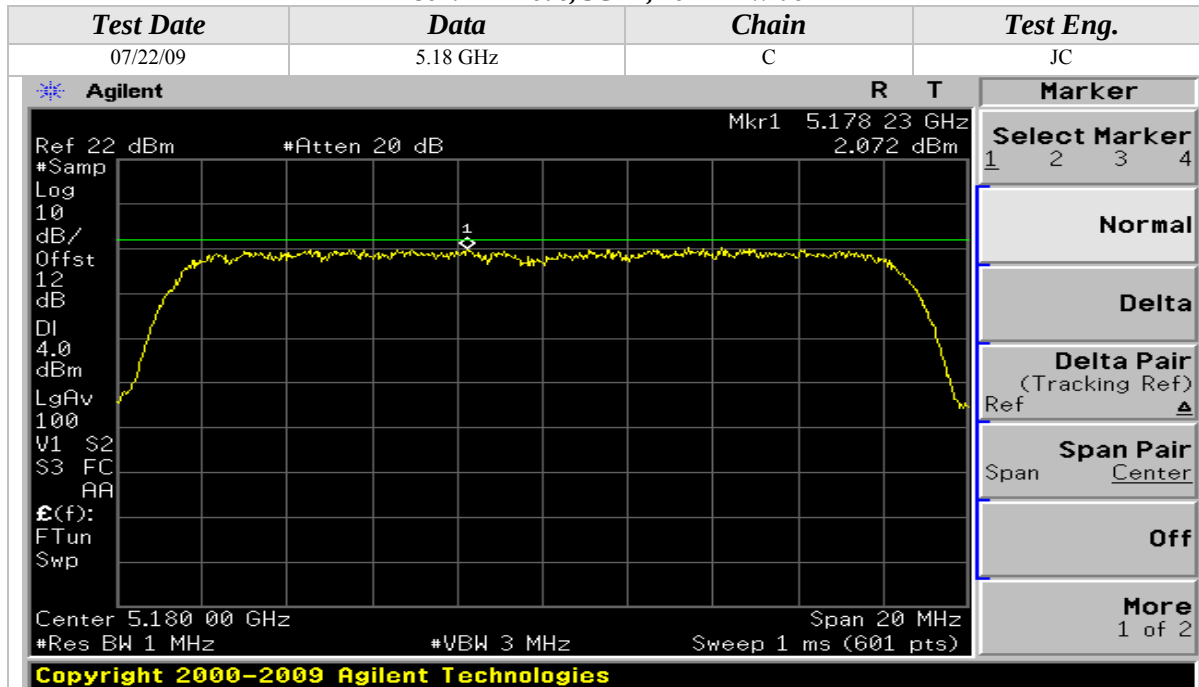
802.11a Mode





Peak Power Spectral Density (Continued)

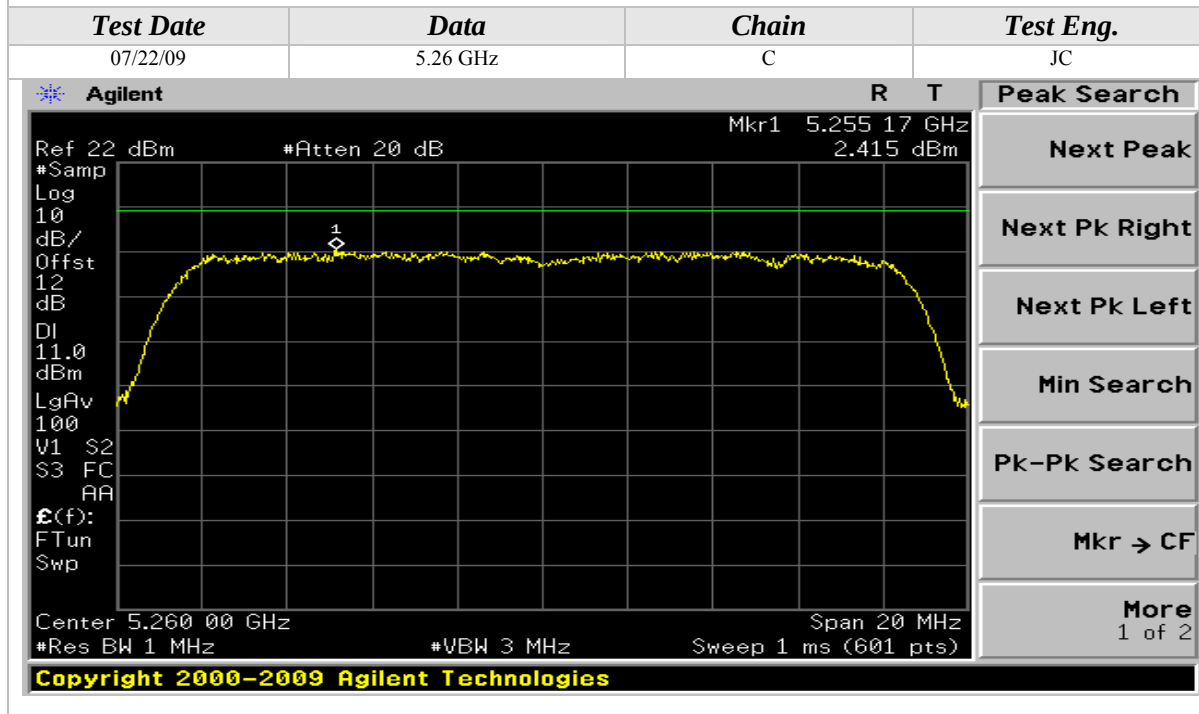
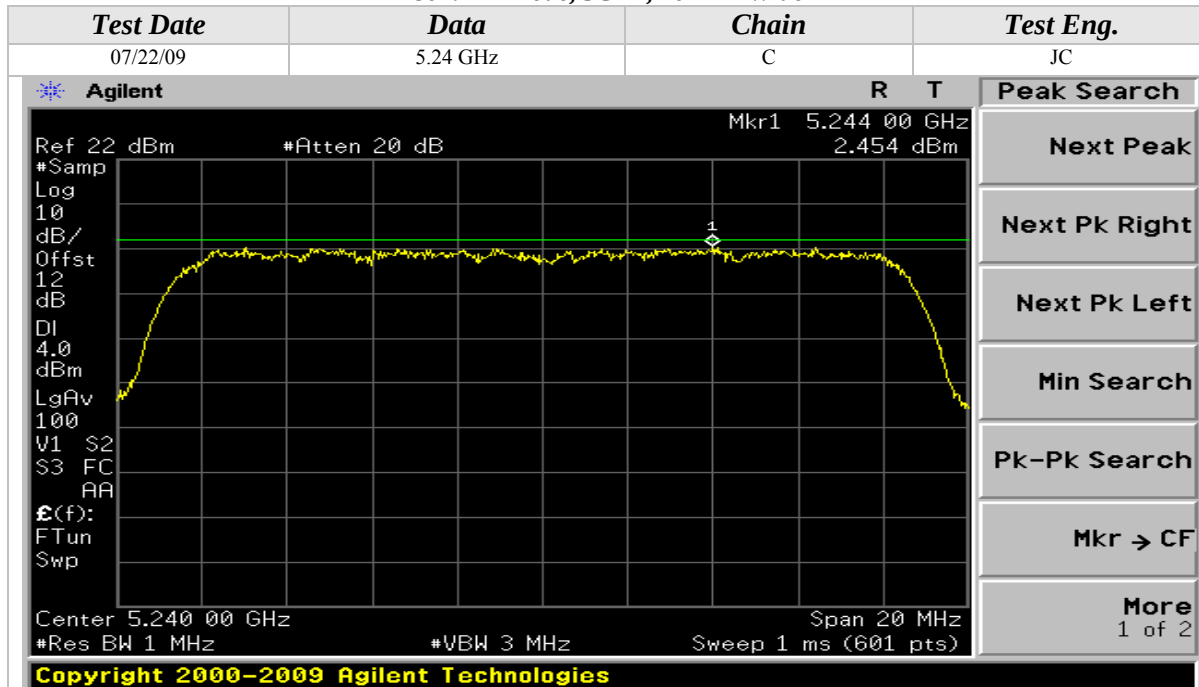
802.11n Mode, 5GHz, 20MHz Wide





Peak Power Spectral Density (Continued)

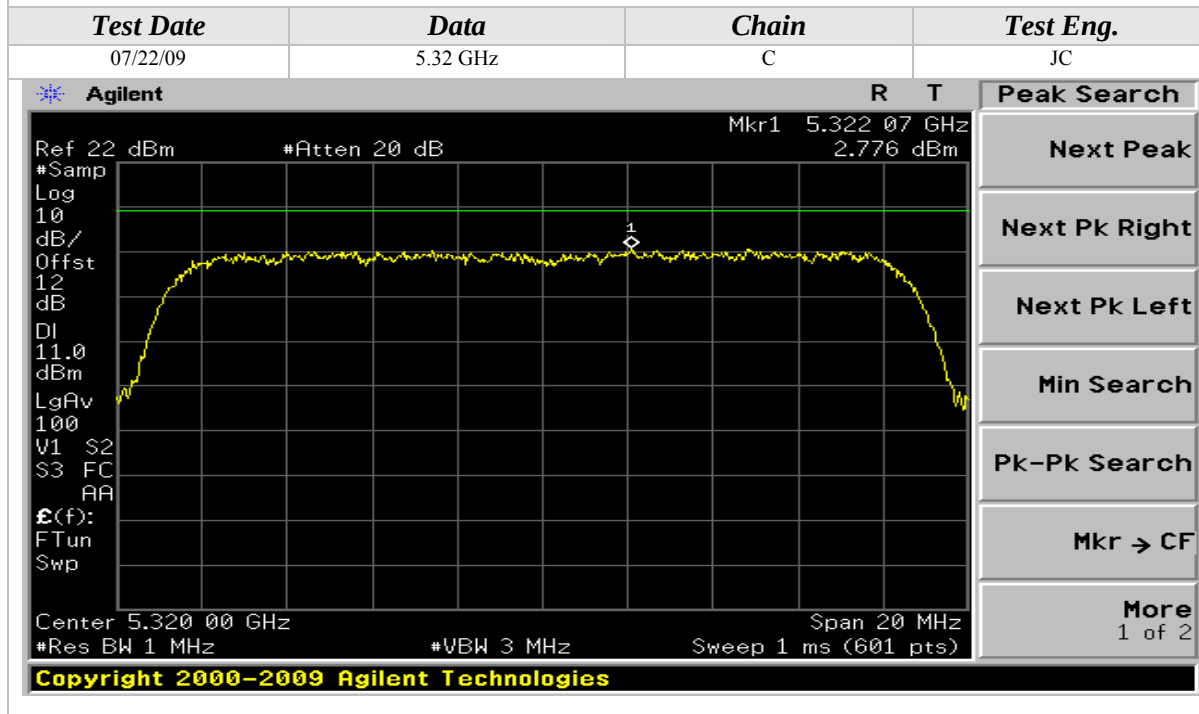
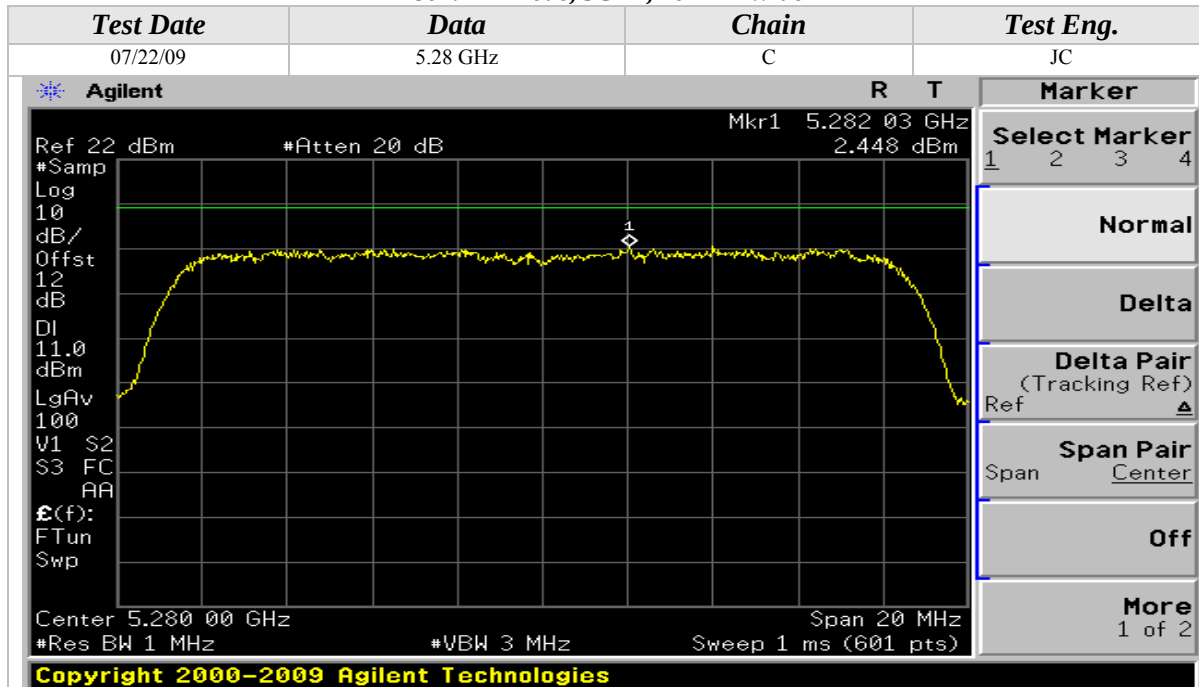
802.11n Mode, 5GHz, 20MHz Wide





Peak Power Spectral Density (Continued)

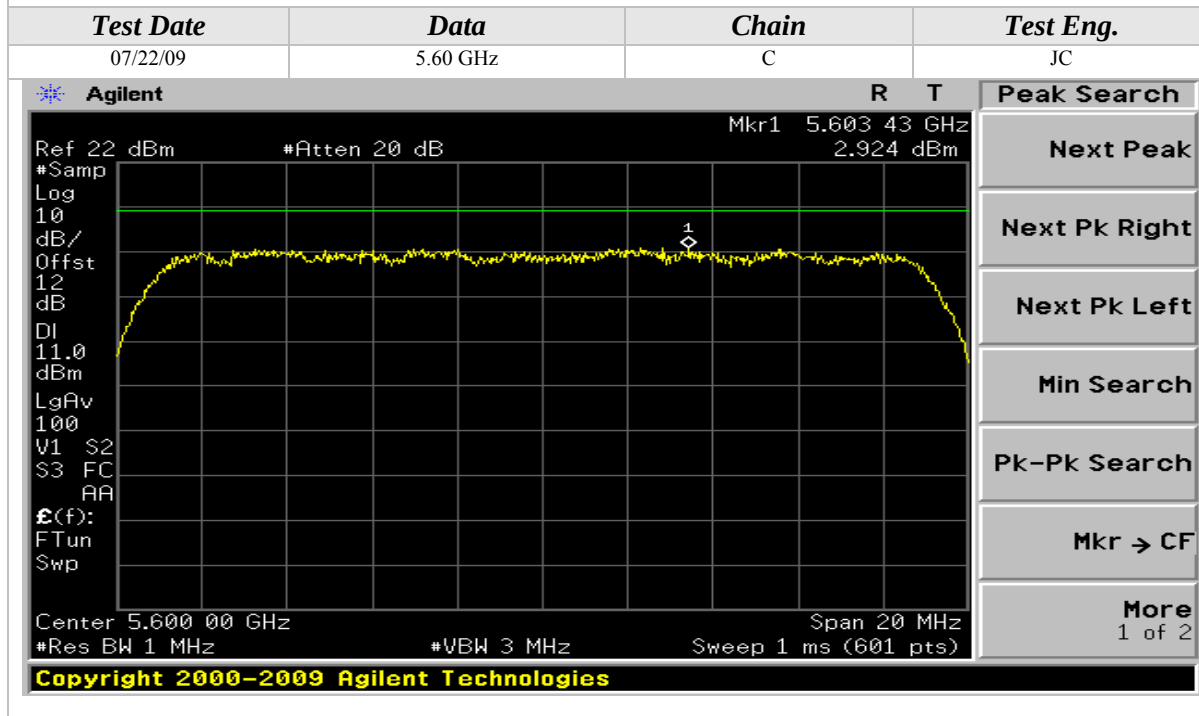
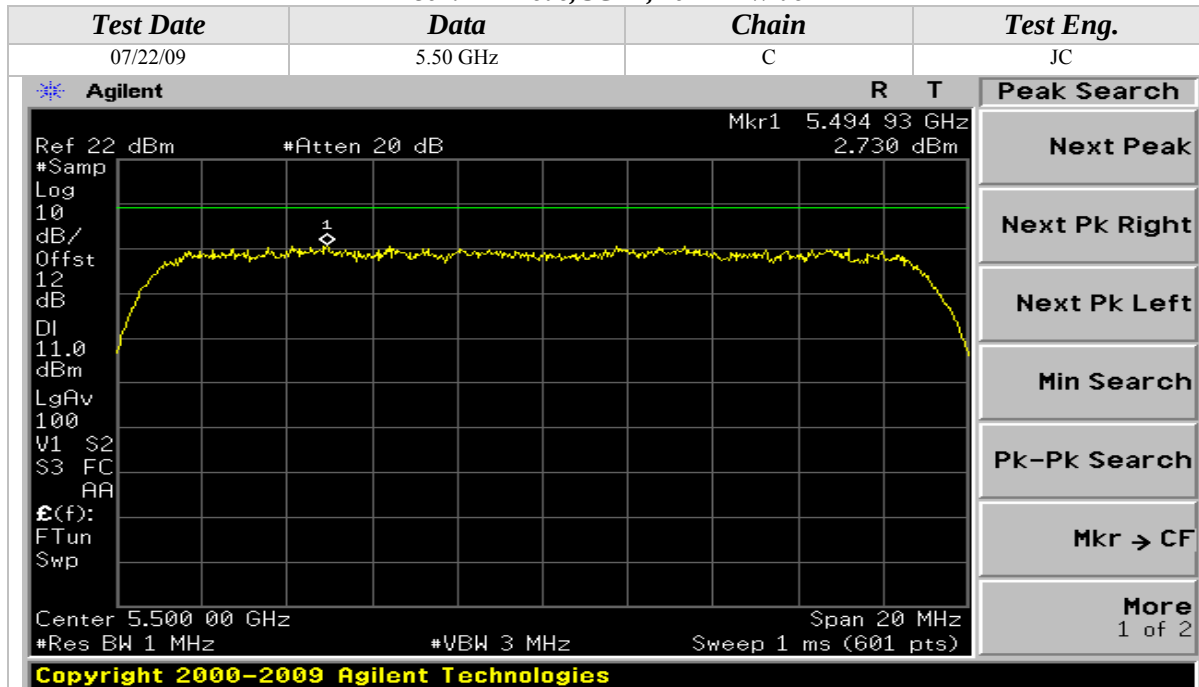
802.11n Mode, 5GHz, 20MHz Wide





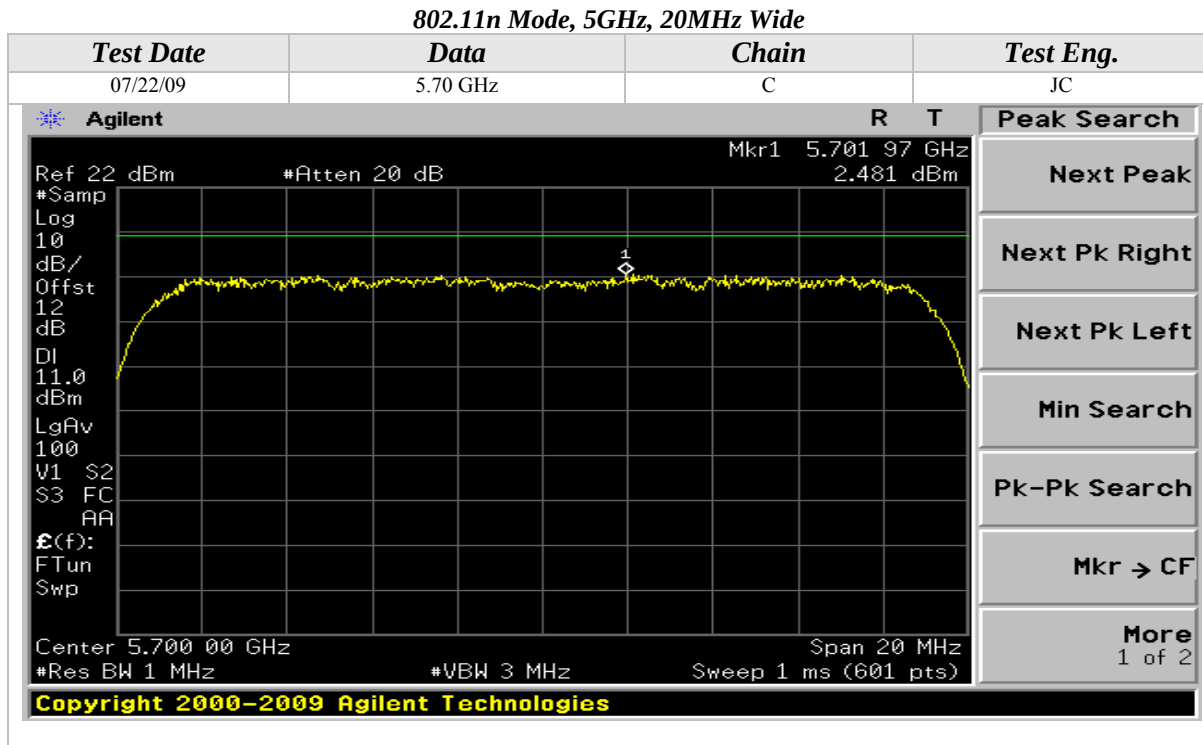
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 20MHz Wide





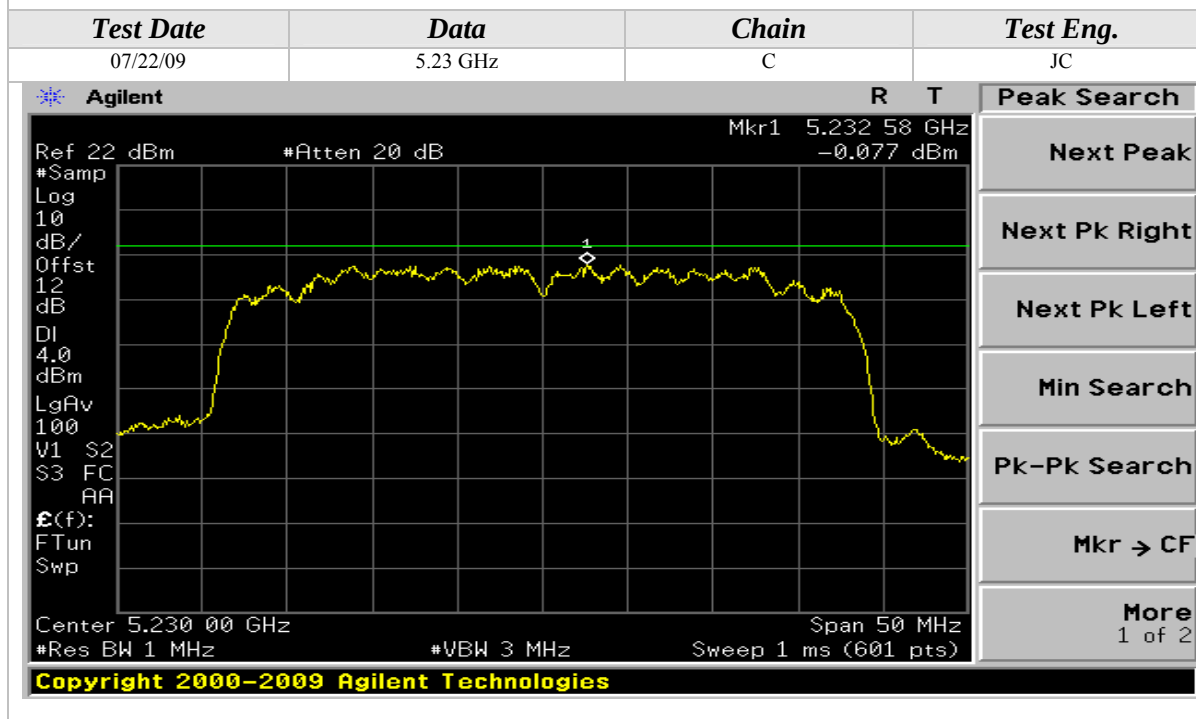
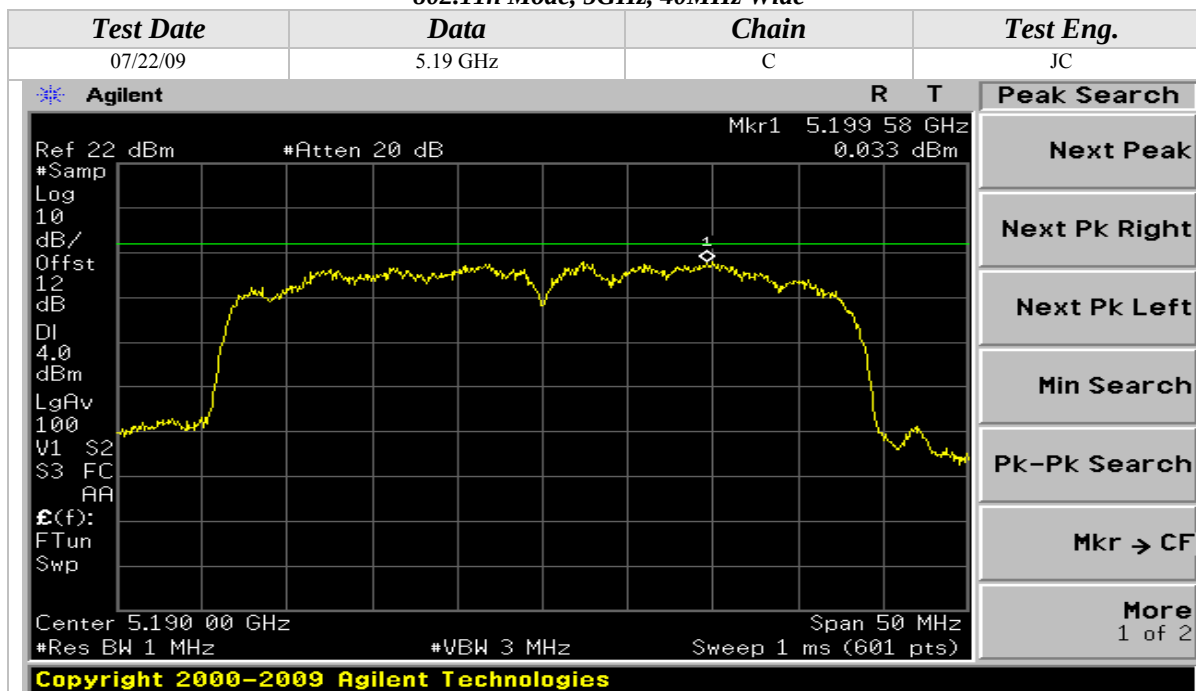
Peak Power Spectral Density (Continued)





Peak Power Spectral Density (Continued)

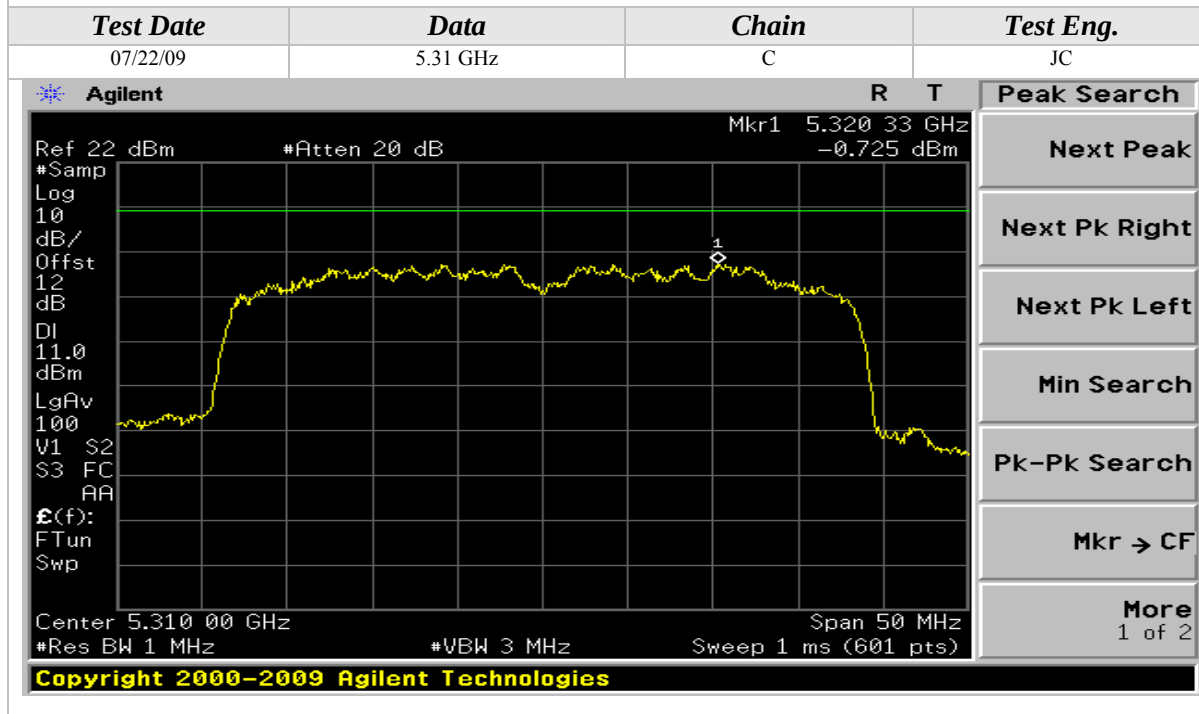
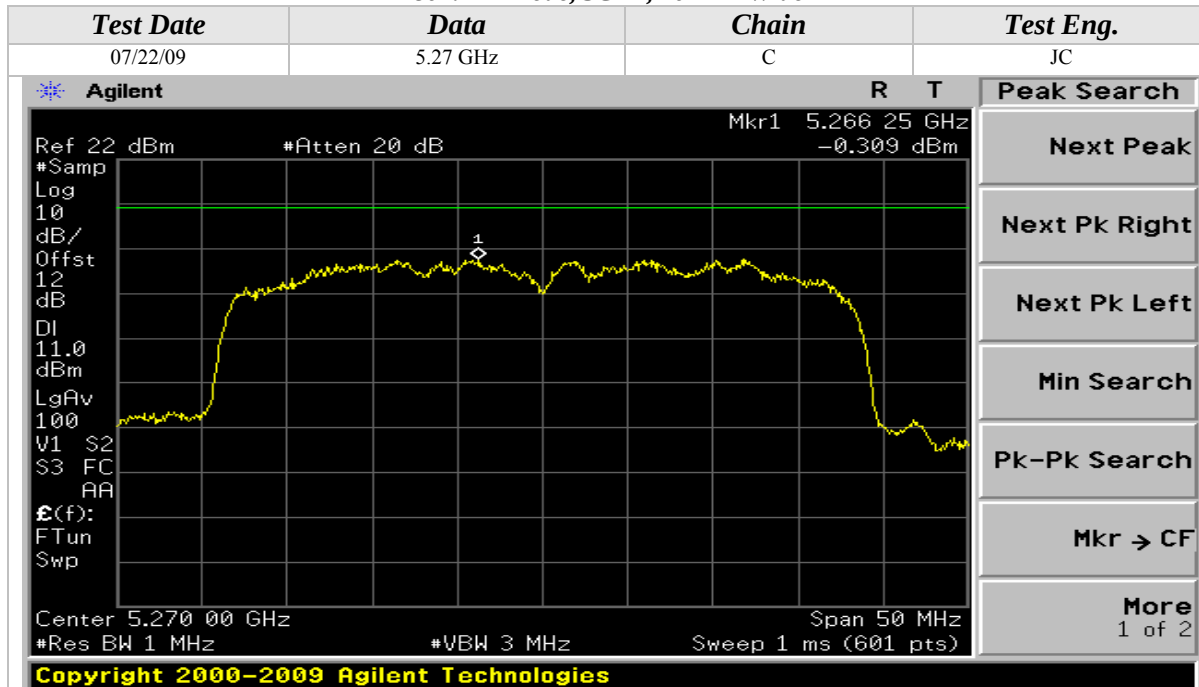
802.11n Mode, 5GHz, 40MHz Wide





Peak Power Spectral Density (Continued)

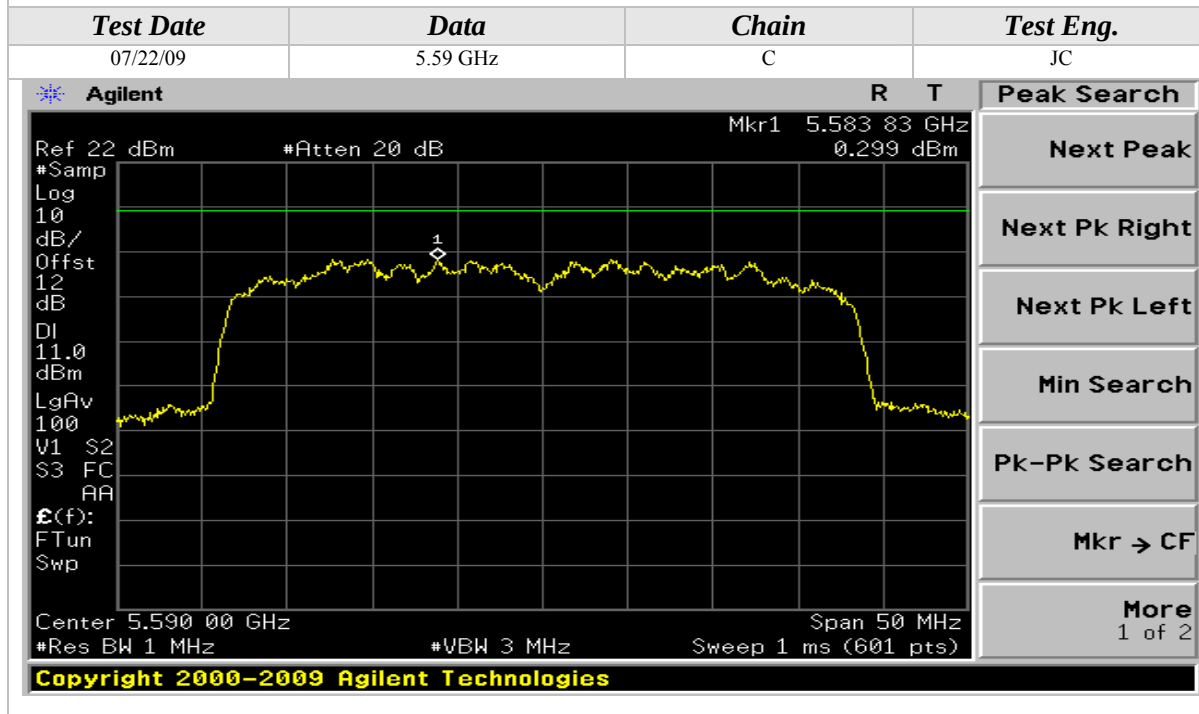
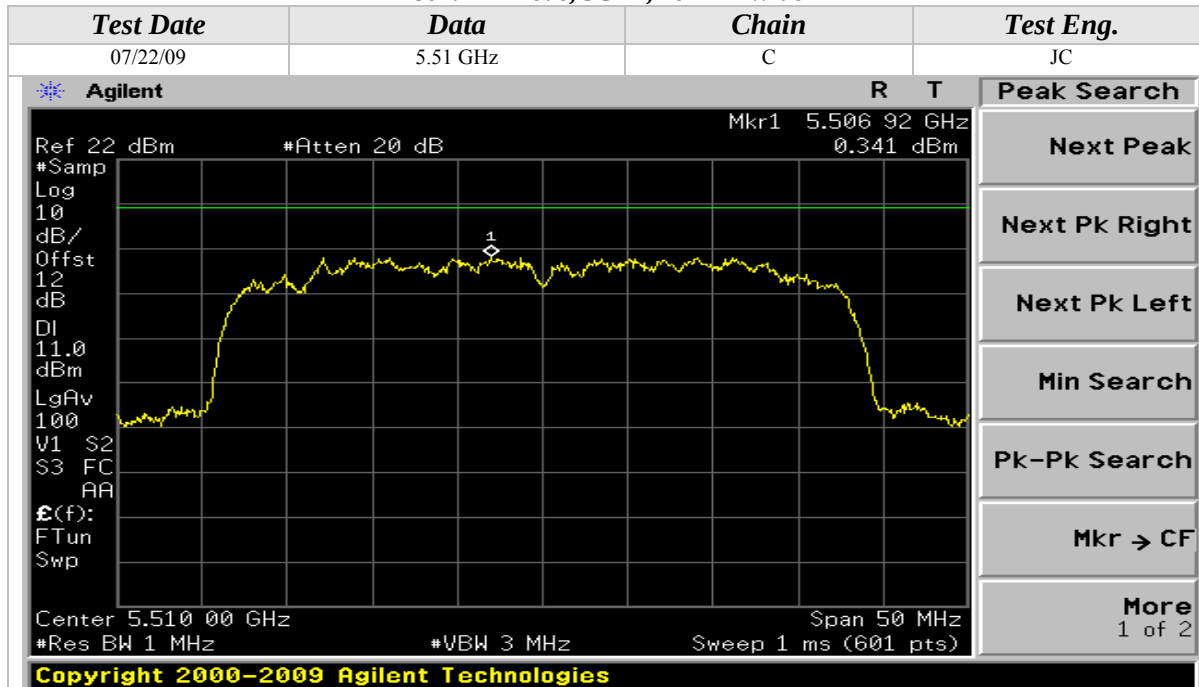
802.11n Mode, 5GHz, 40MHz Wide





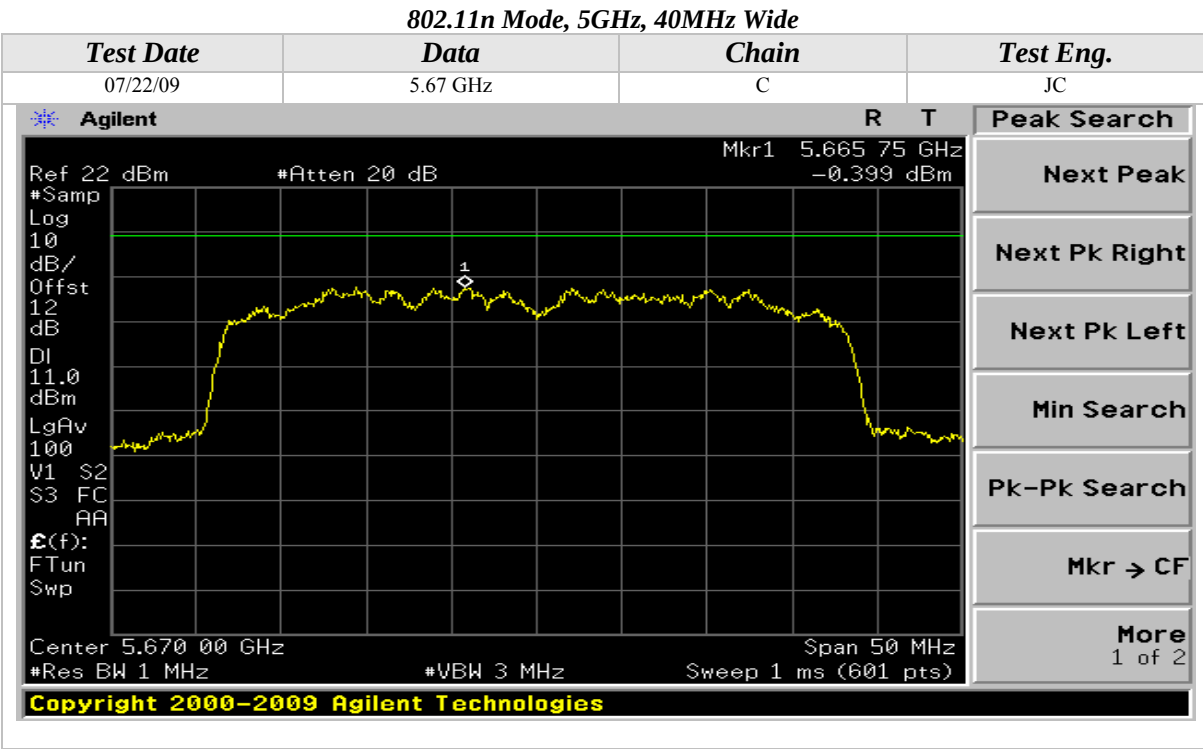
Peak Power Spectral Density (Continued)

802.11n Mode, 5GHz, 40MHz Wide





Peak Power Spectral Density (Continued)



**PEAK EXCURSION**

CLIENT:	Intel Corporation	DATE:	07/23/09
EUT:	Intel WiFi Link 6300	PROJECT NUMBER:	INTEL-090526
MODEL NUMBER:	633ANHMW	TEST ENGINEER:	JC
SERIAL NUMBER:	0015005A17C0	SITE #:	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot	TEMPERATURE:	24 deg. C
		HUMIDITY:	43% RH
		TIME:	12:30 PM

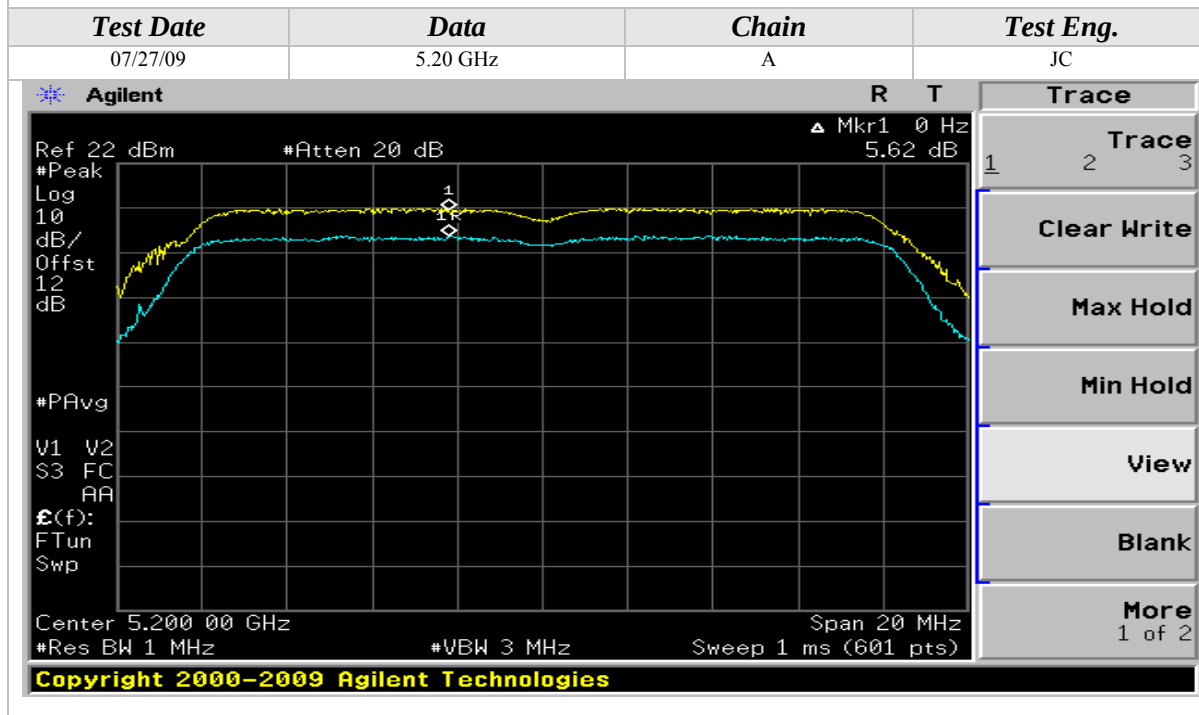
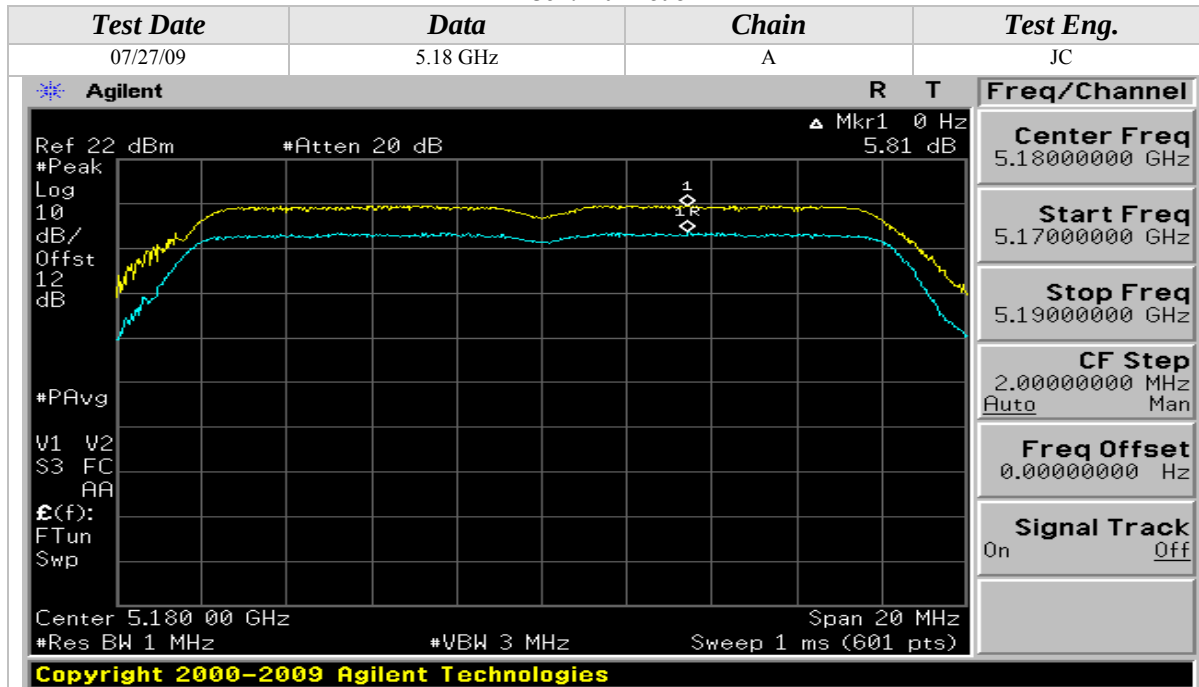
Description:	The ratio of the peak excursion of the modulation envelope to the peak transmit power shall not exceed 13dB across any 1 MHz bandwidth or the emissions bandwidth whichever is less.
Results:	See Data Sheet
Note:	Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. • 120VAC / 60 Hz.

Peak Power Spectral Density Limits	
Frequency (MHz)	Limit (dBm)
5150-5350	13
5470-5725	13



Peak Excursion (Continued)

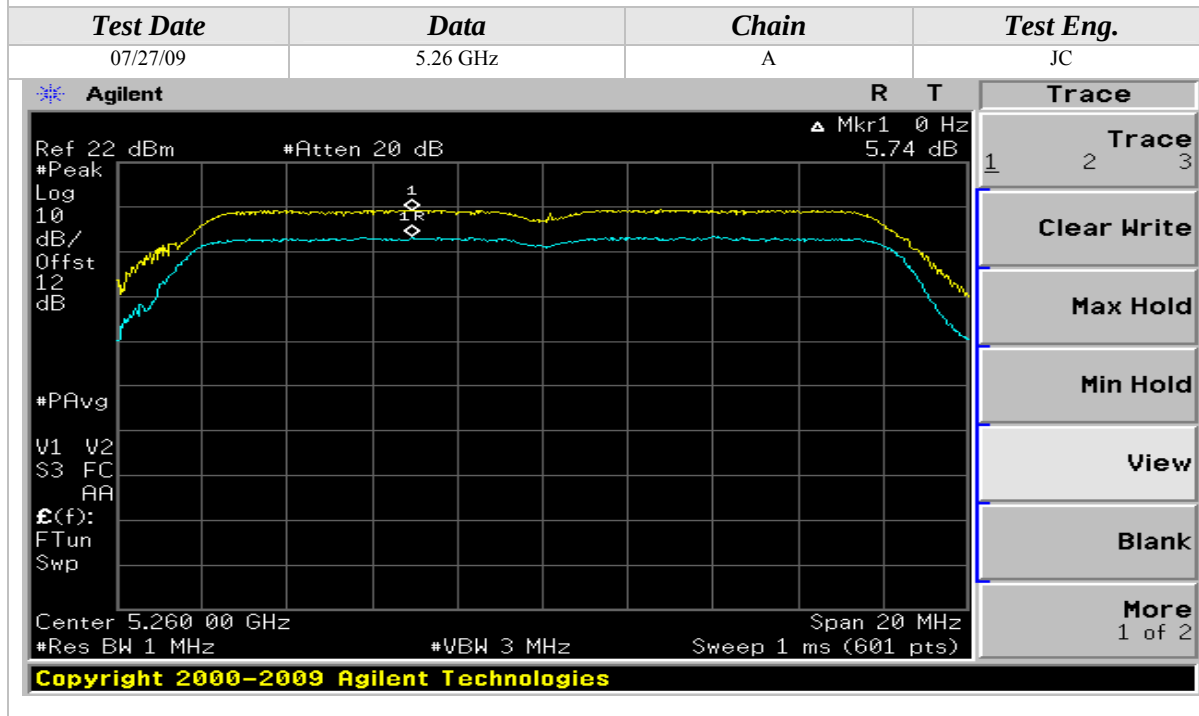
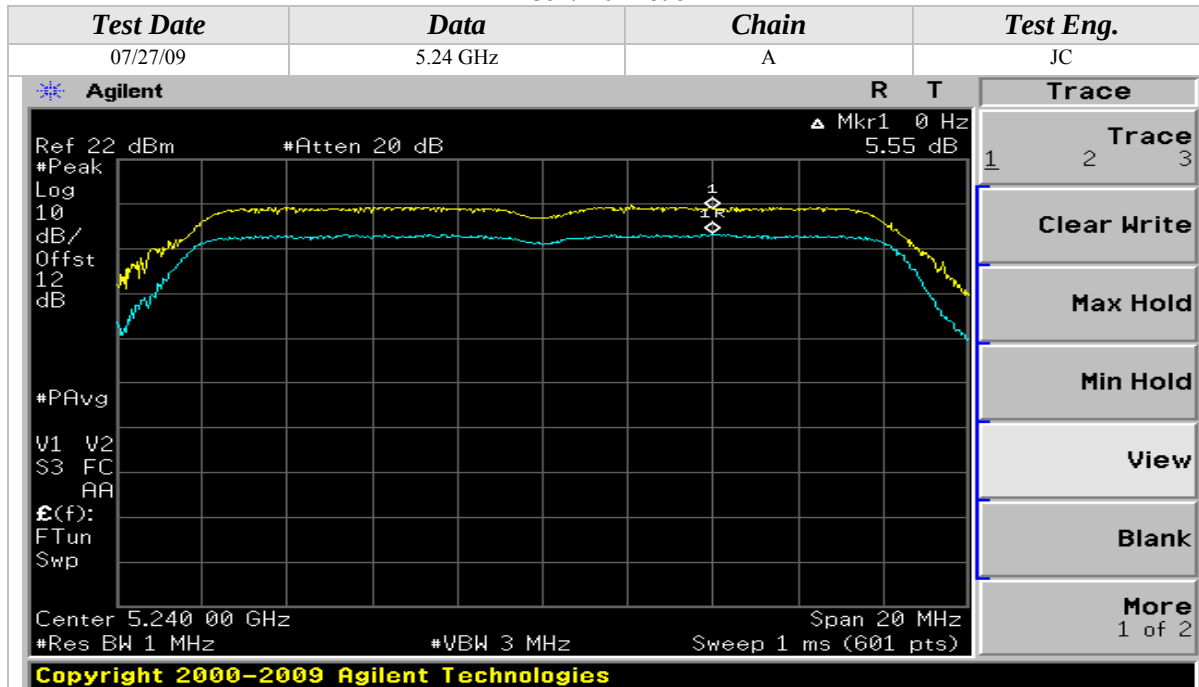
802.11a Mode





Peak Excursion (Continued)

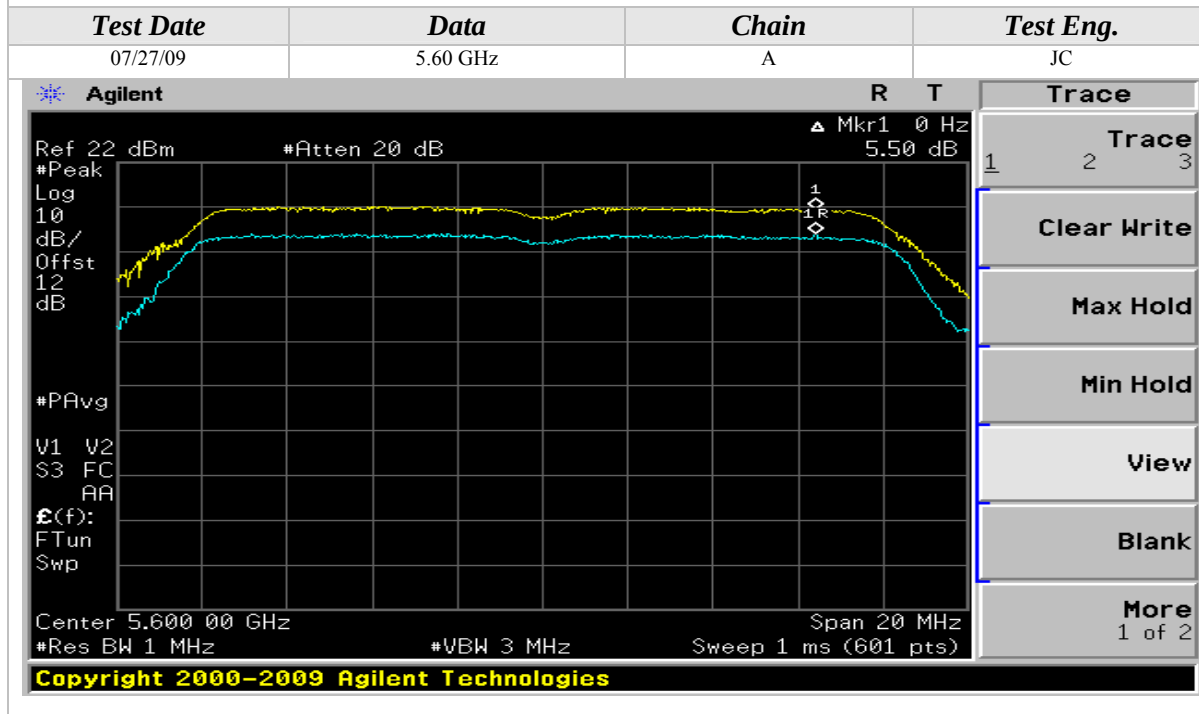
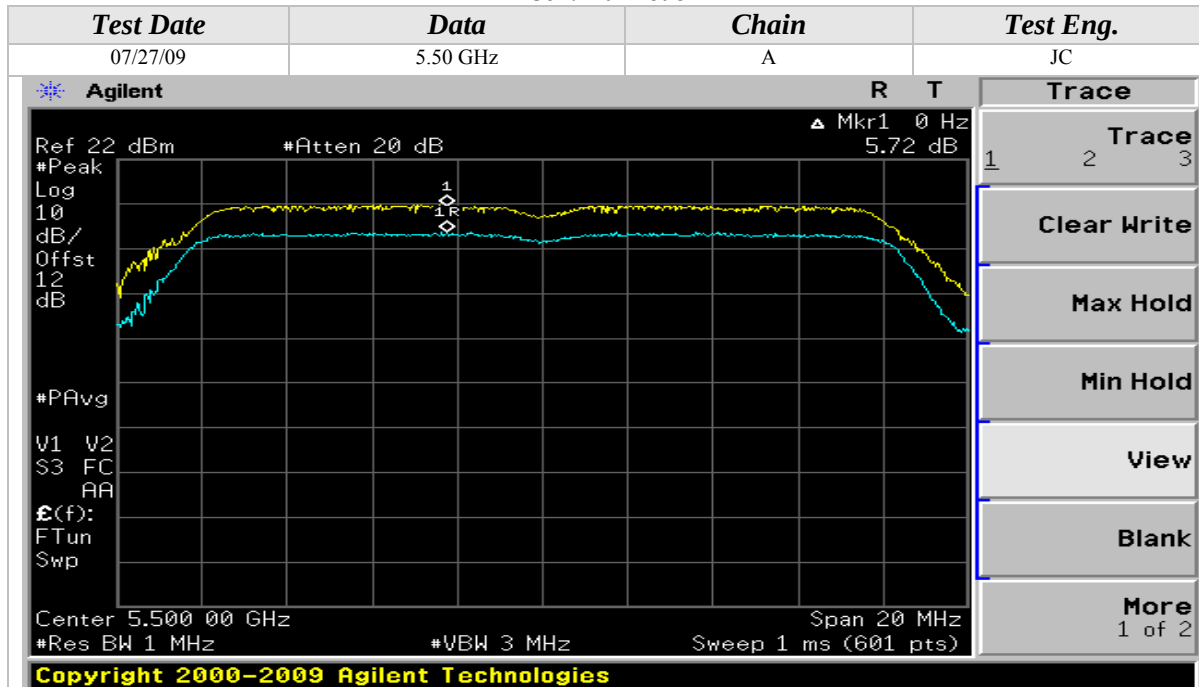
802.11a Mode





Peak Excursion (Continued)

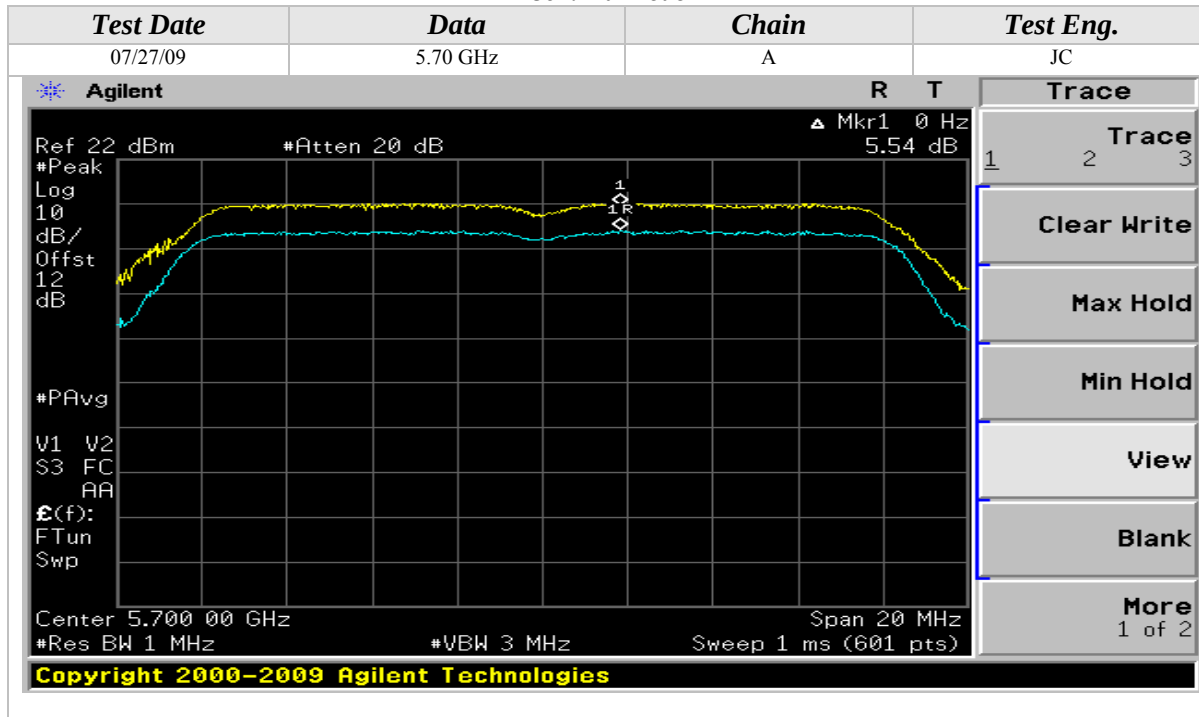
802.11a Mode





Peak Excursion (Continued)

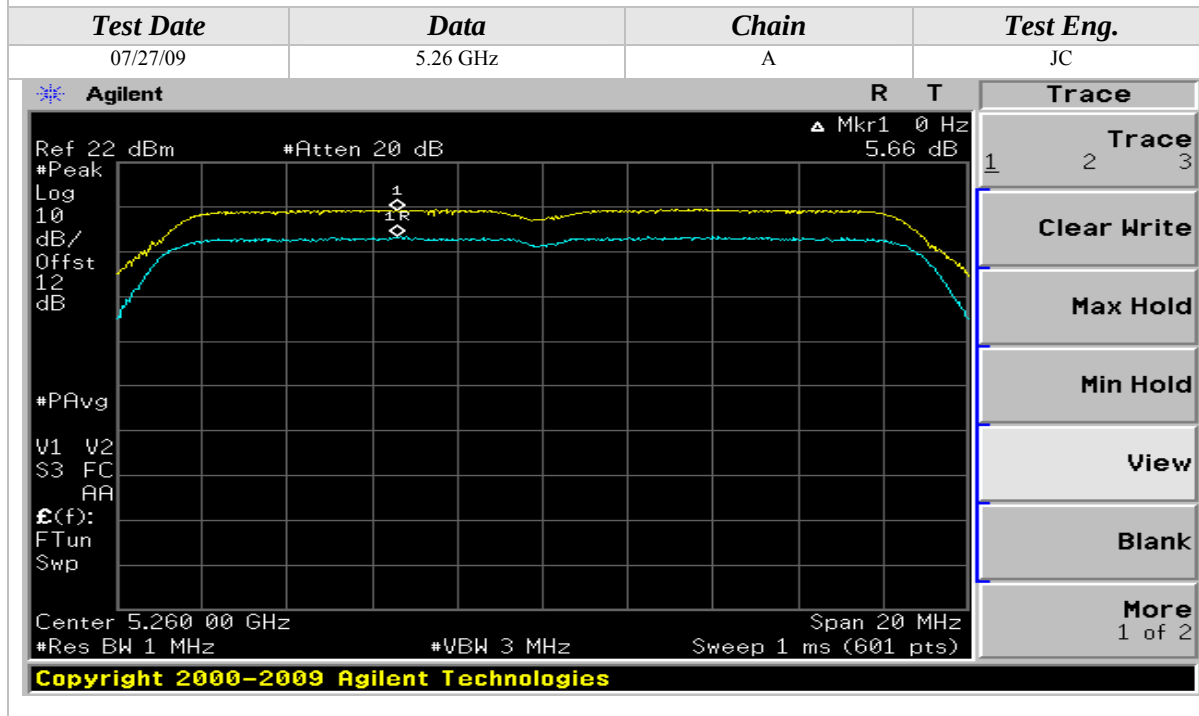
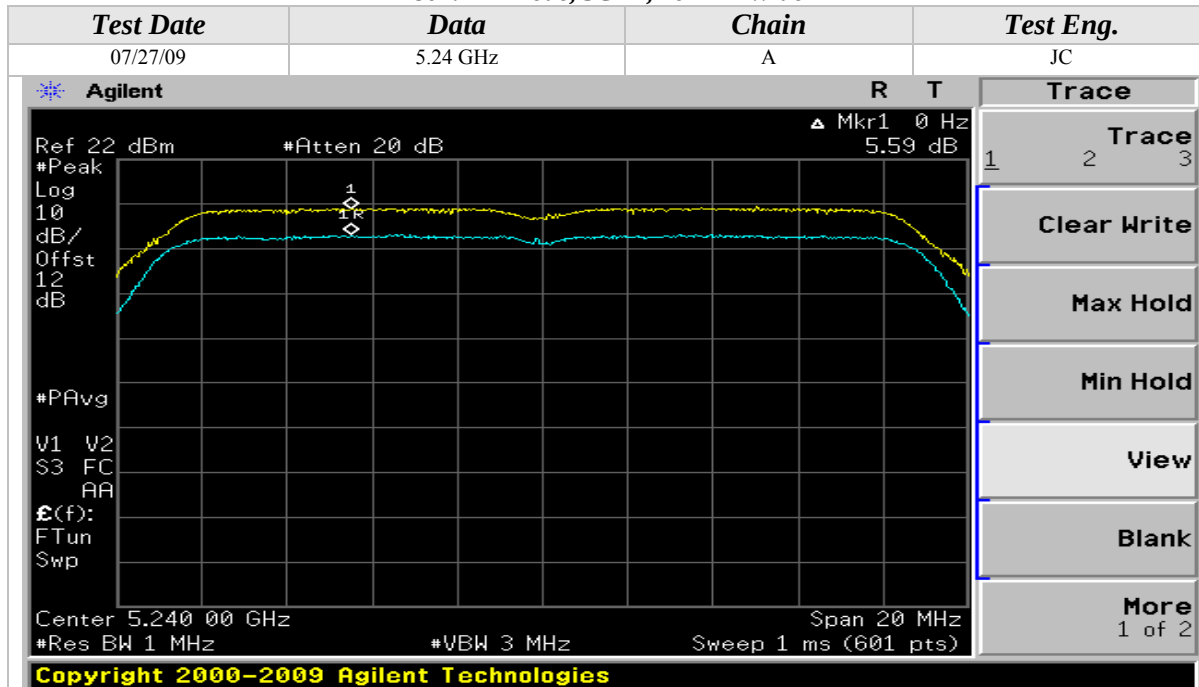
802.11a Mode





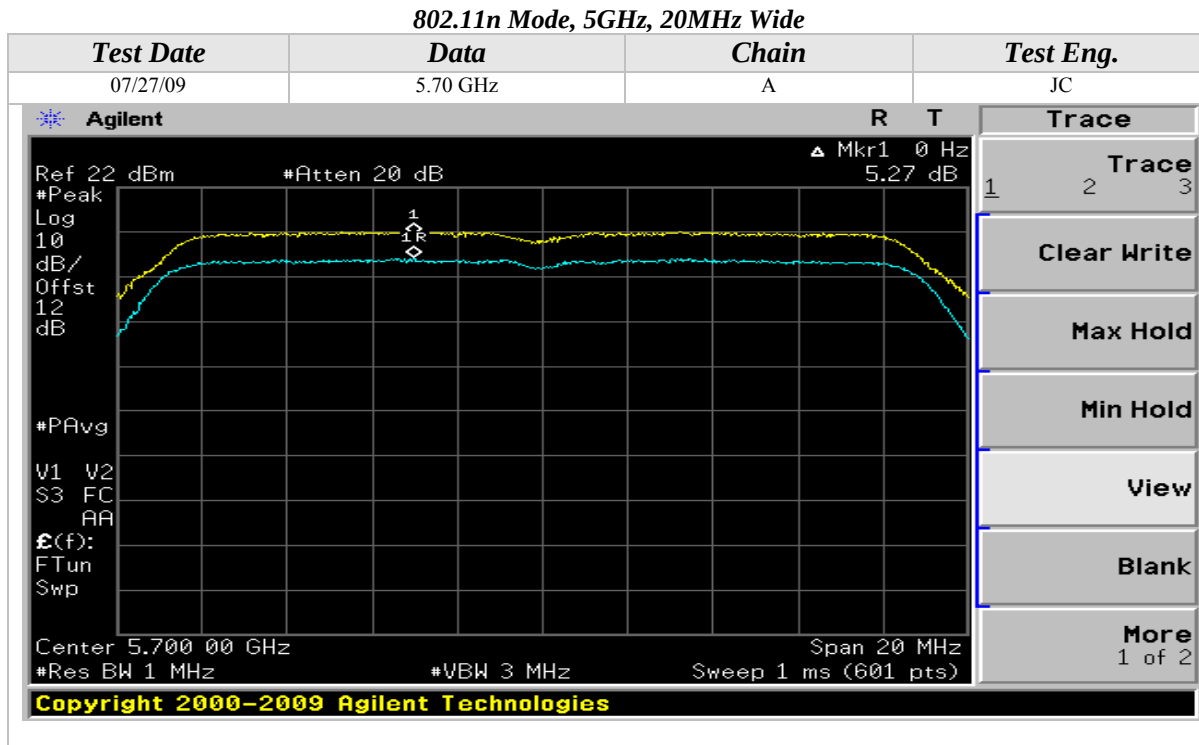
Peak Excursion (Continued)

802.11n Mode, 5GHz, 20MHz Wide





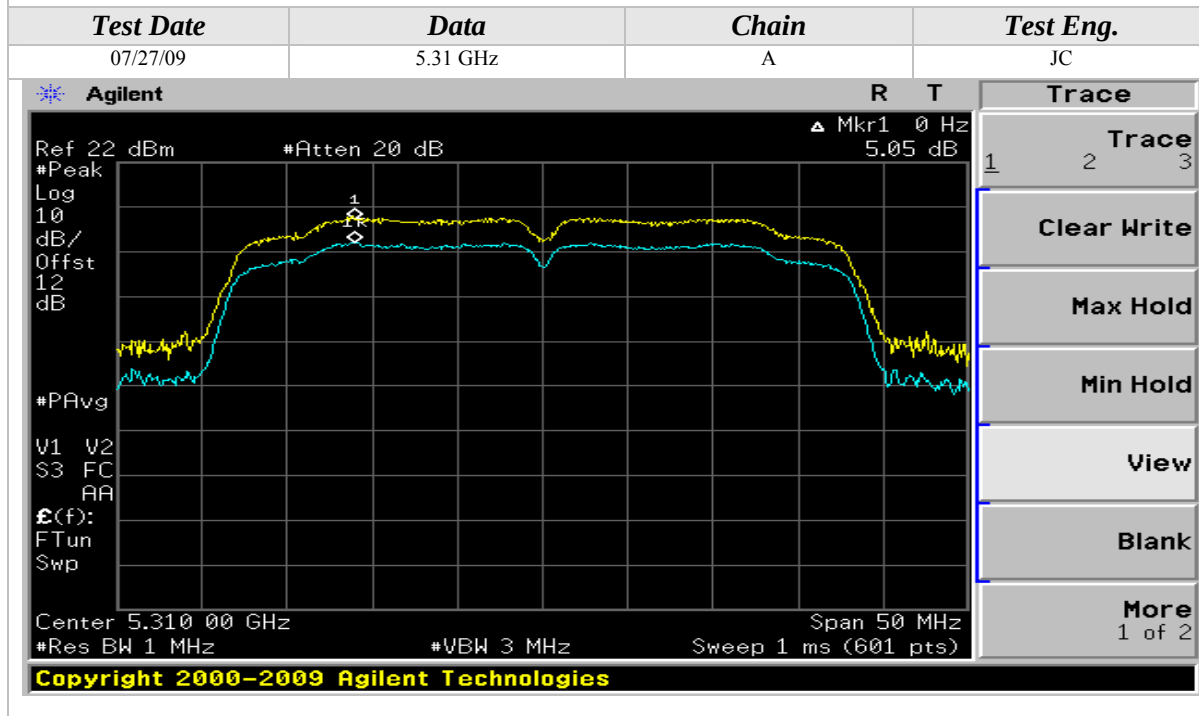
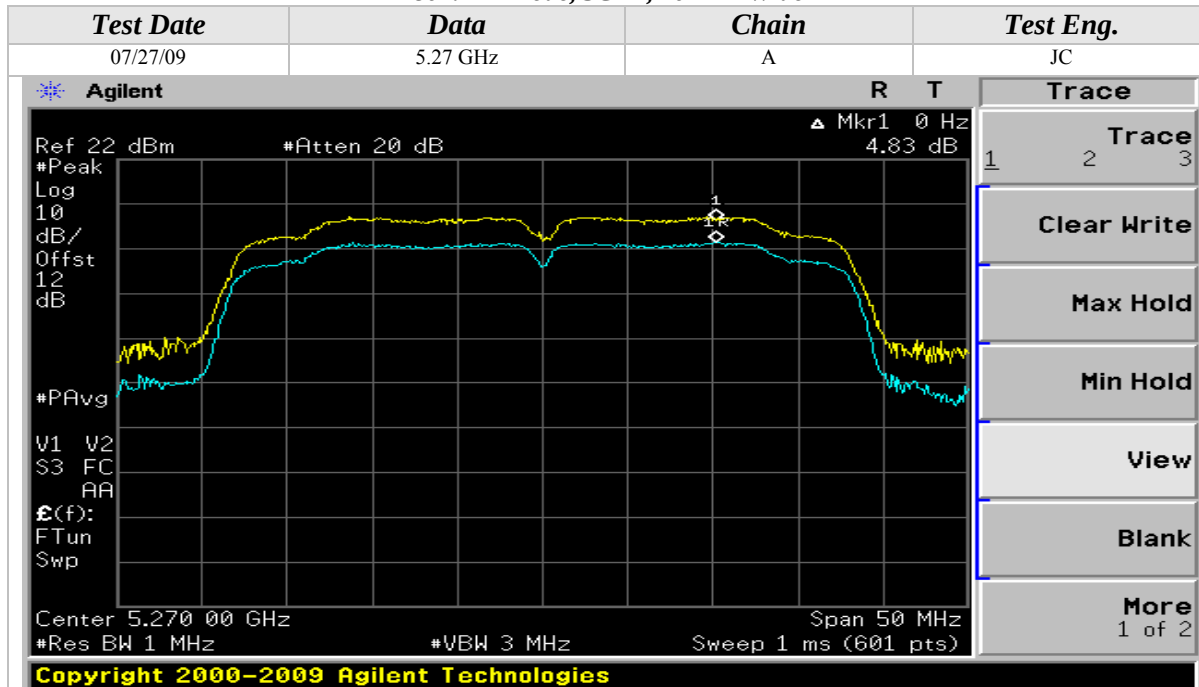
Peak Excursion (Continued)





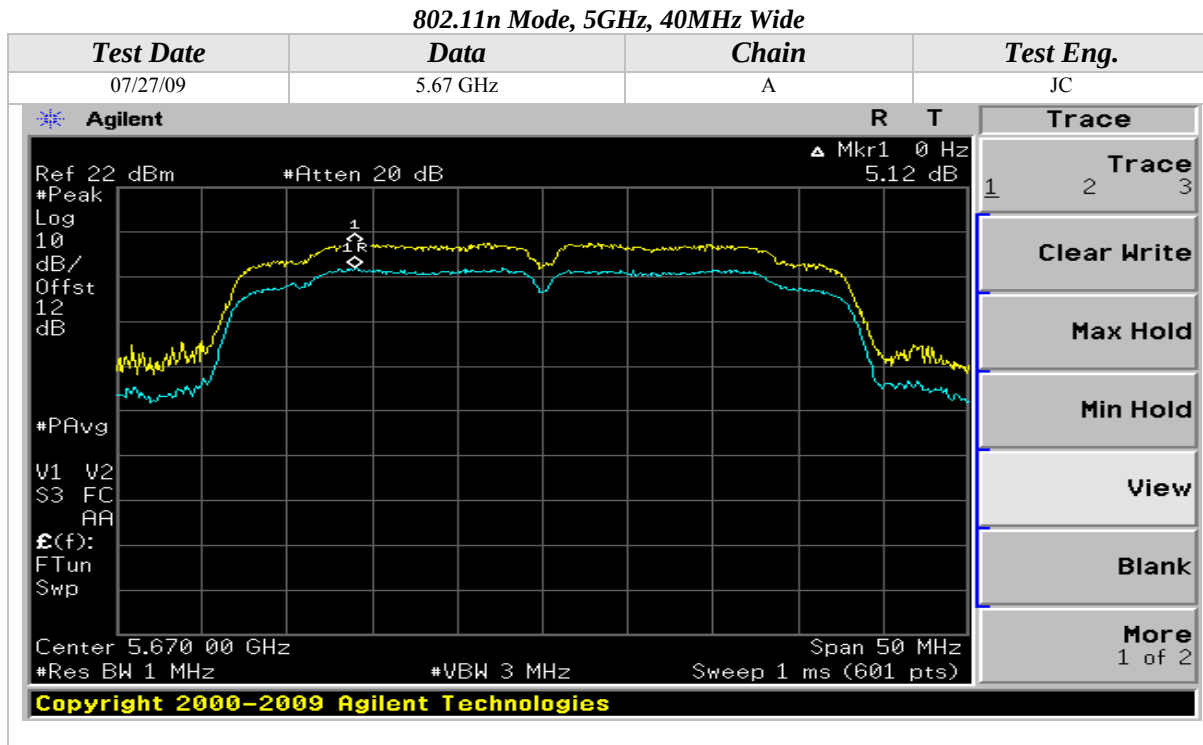
Peak Excursion (Continued)

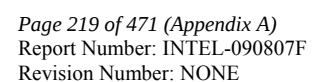
802.11n Mode, 5GHz, 40MHz Wide





Peak Excursion (Continued)

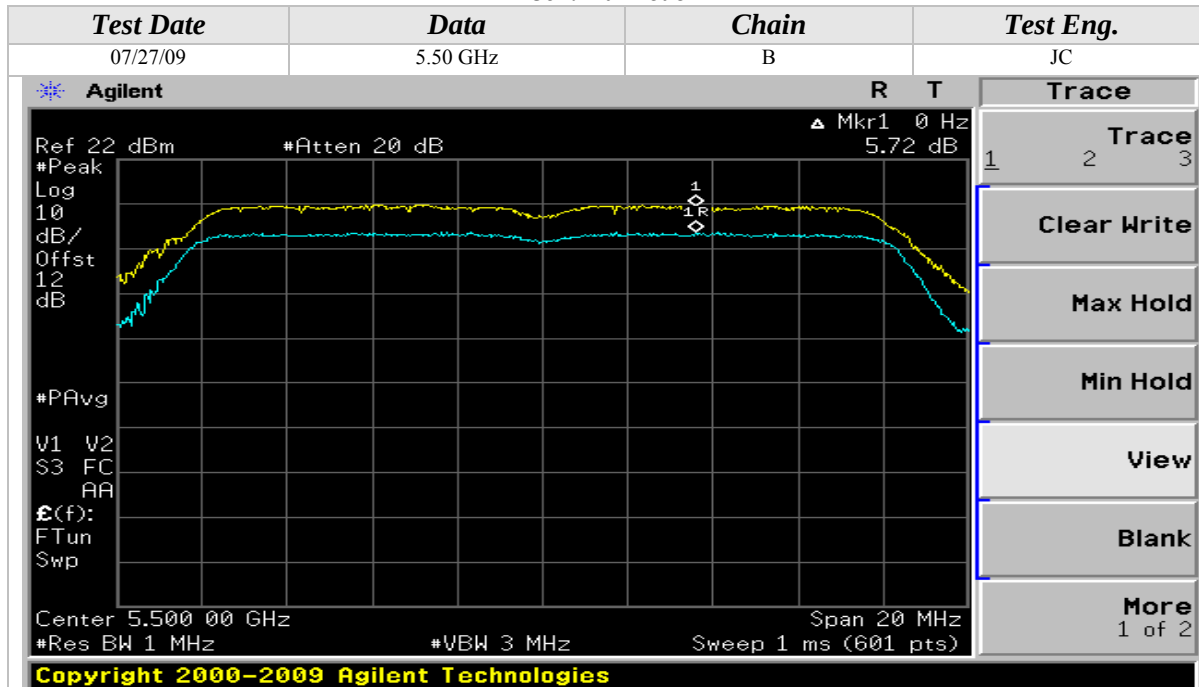






Peak Excursion (Continued)

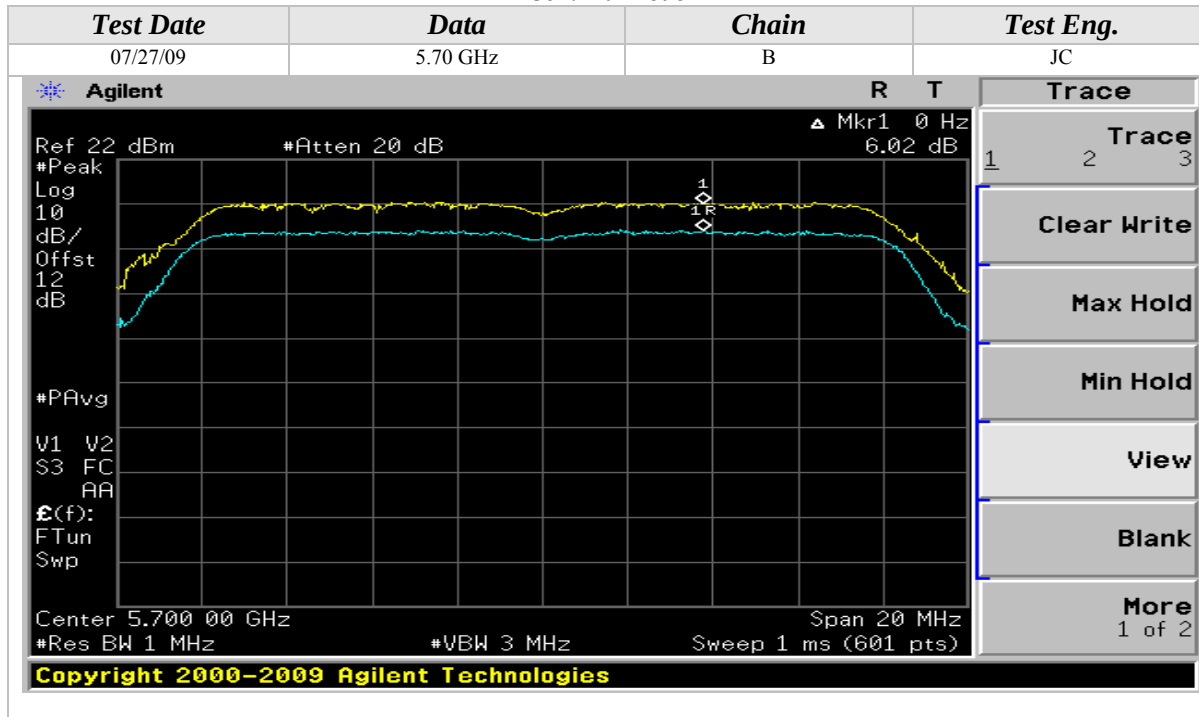
802.11a Mode





Peak Excursion (Continued)

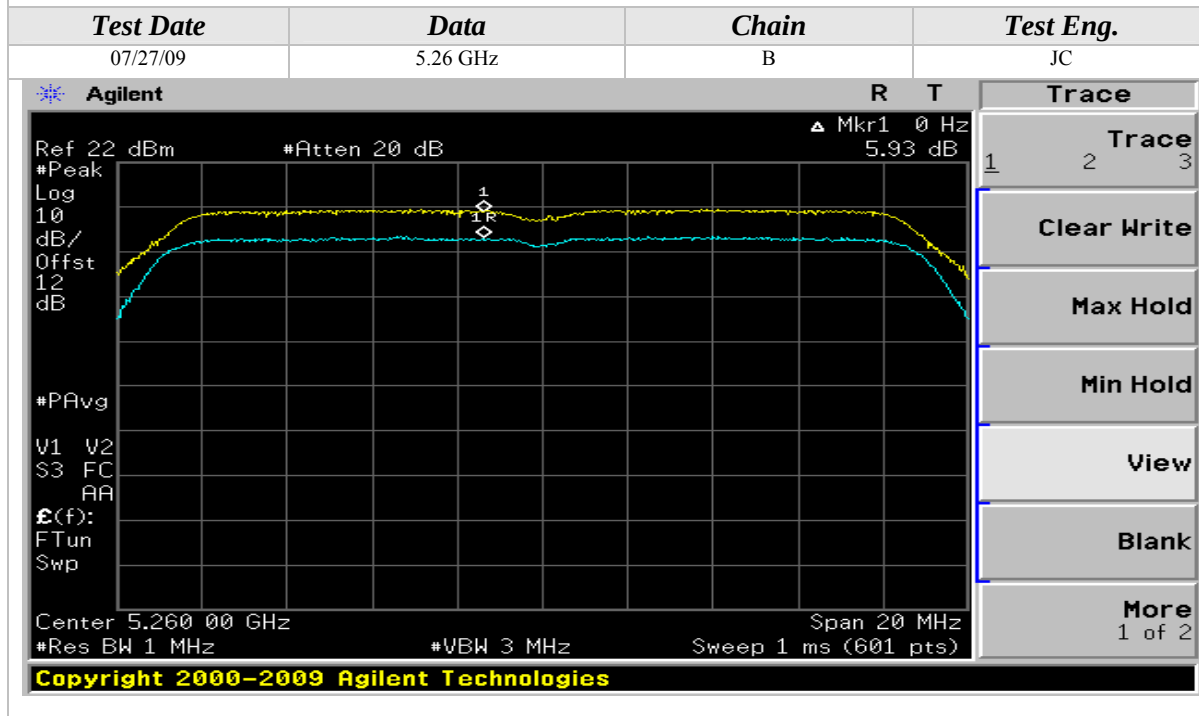
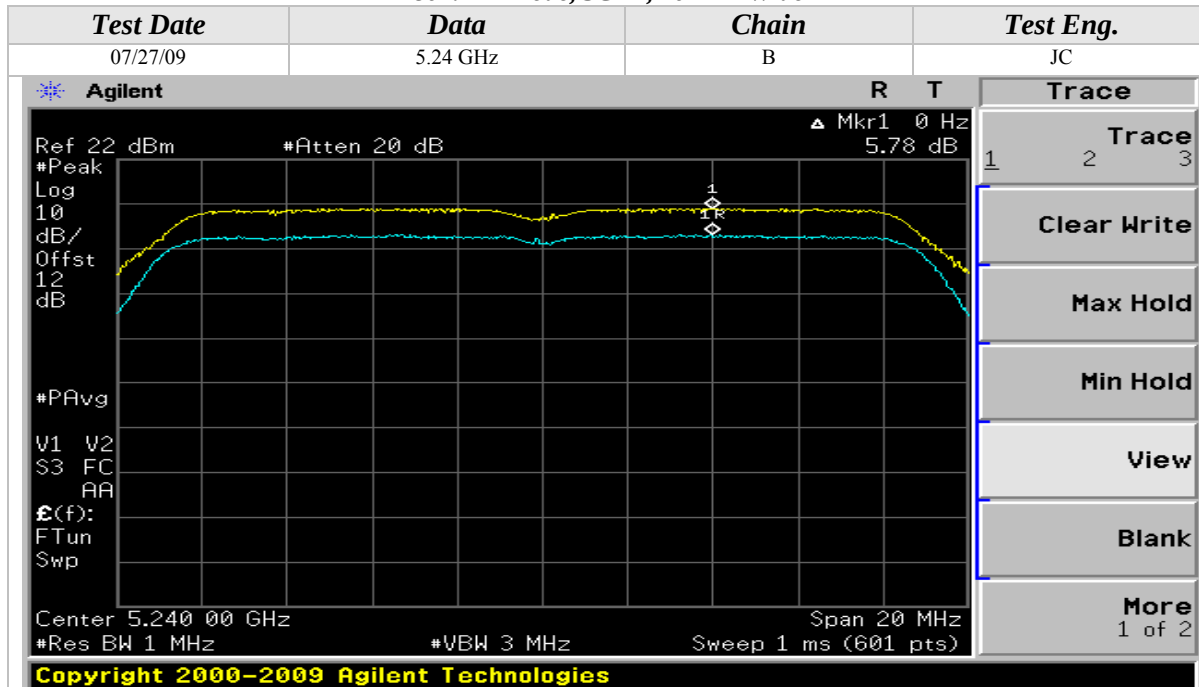
802.11a Mode





Peak Excursion (Continued)

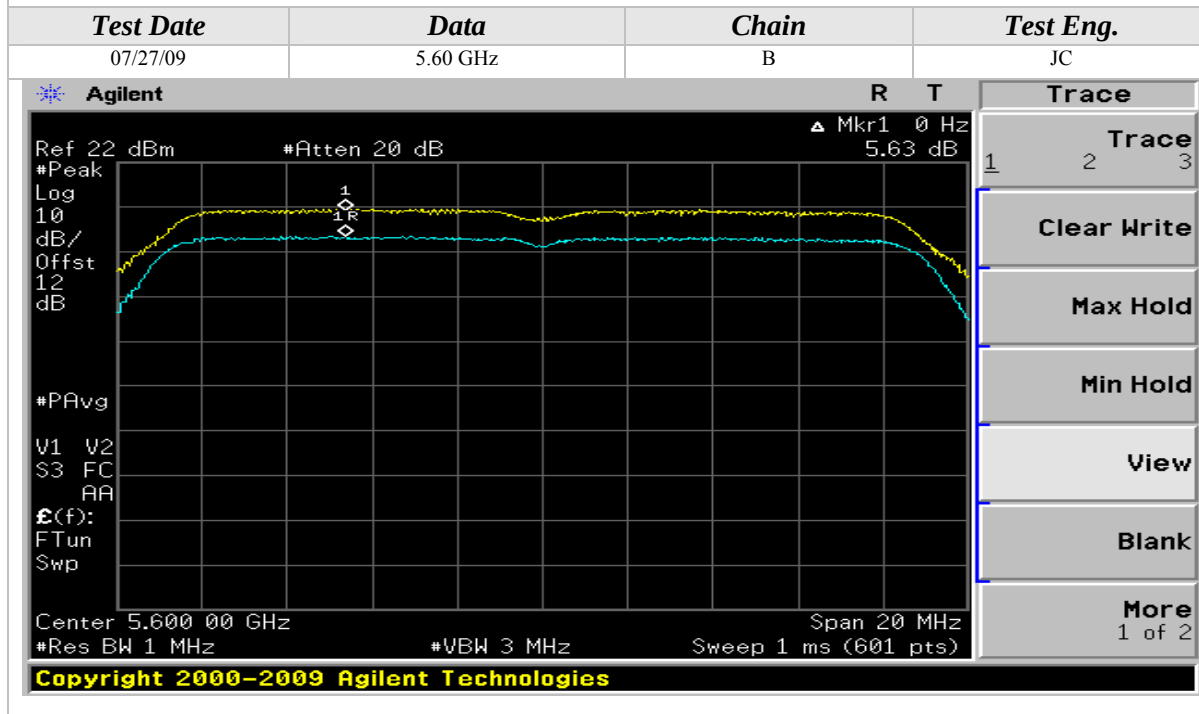
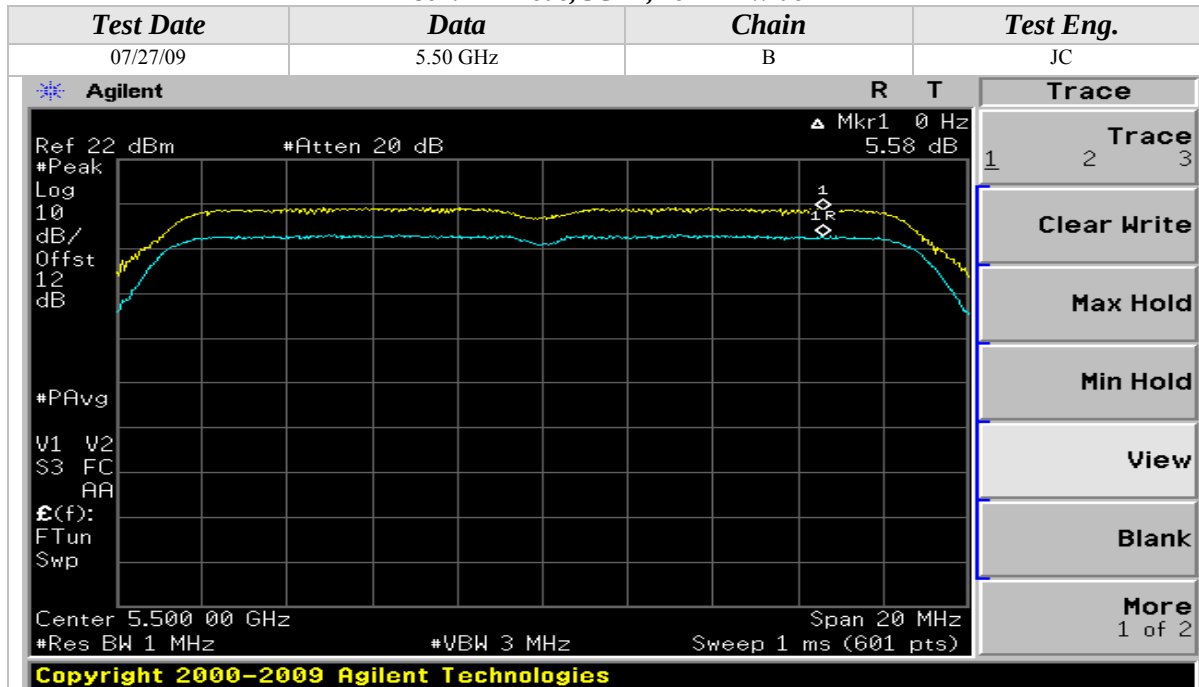
802.11n Mode, 5GHz, 20MHz Wide





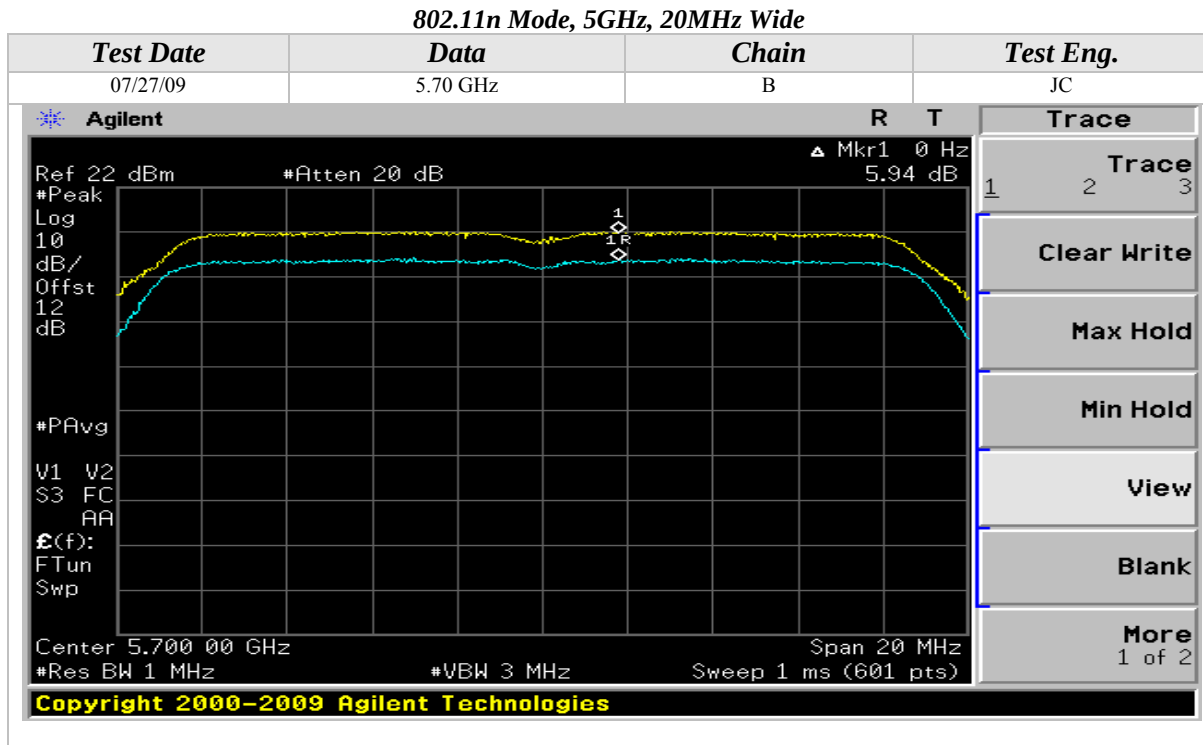
Peak Excursion (Continued)

802.11n Mode, 5GHz, 20MHz Wide





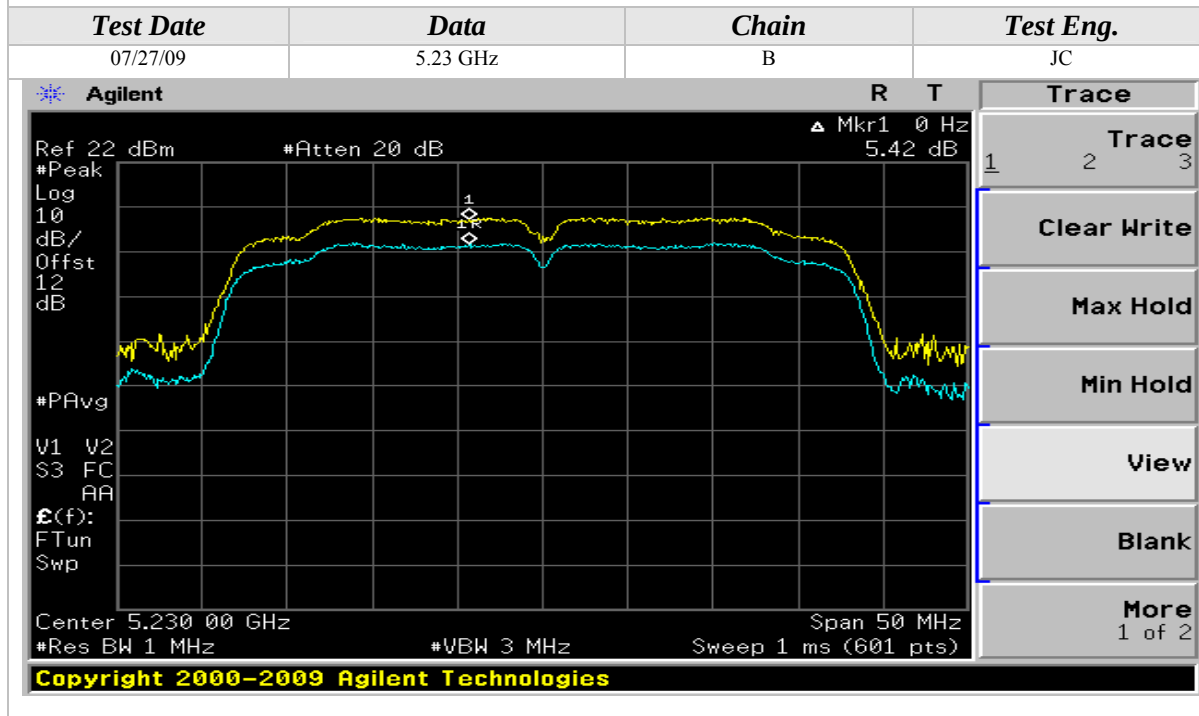
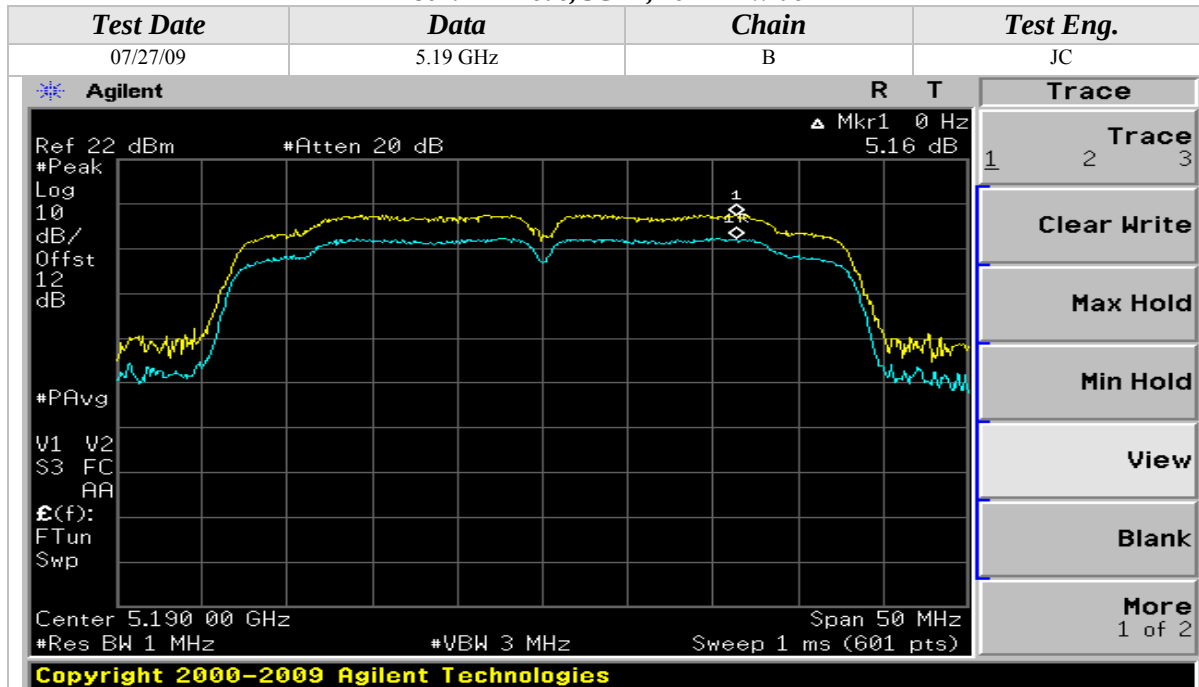
Peak Excursion (Continued)





Peak Excursion (Continued)

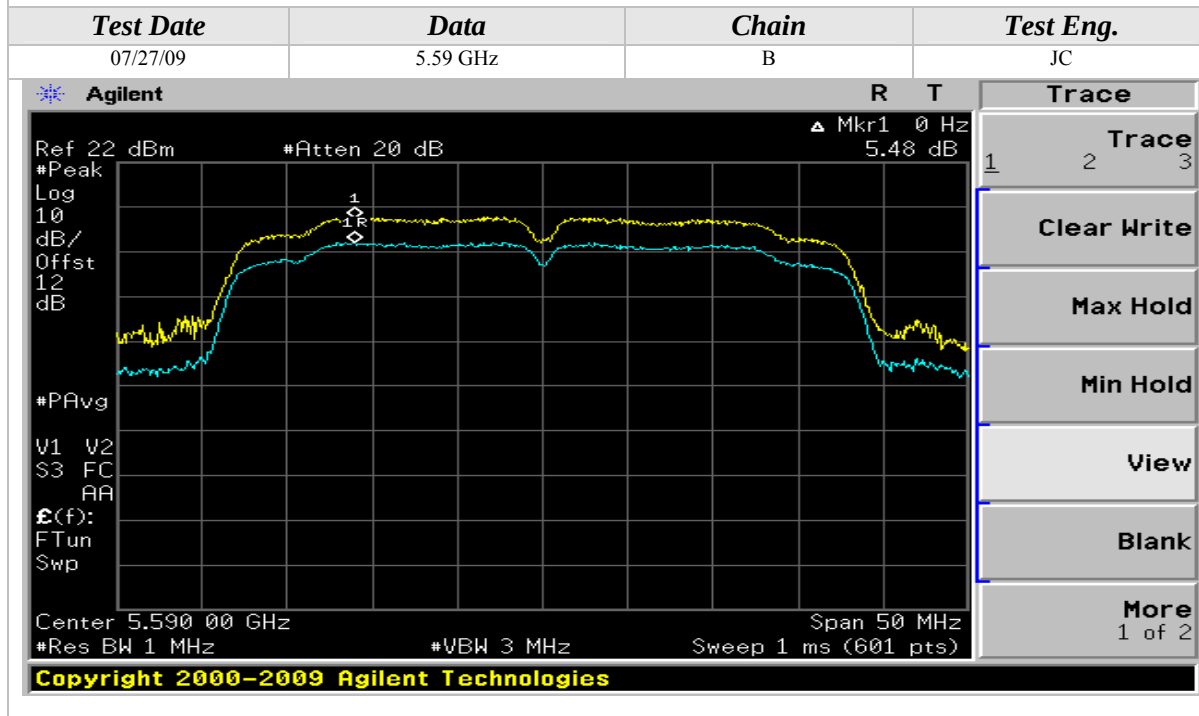
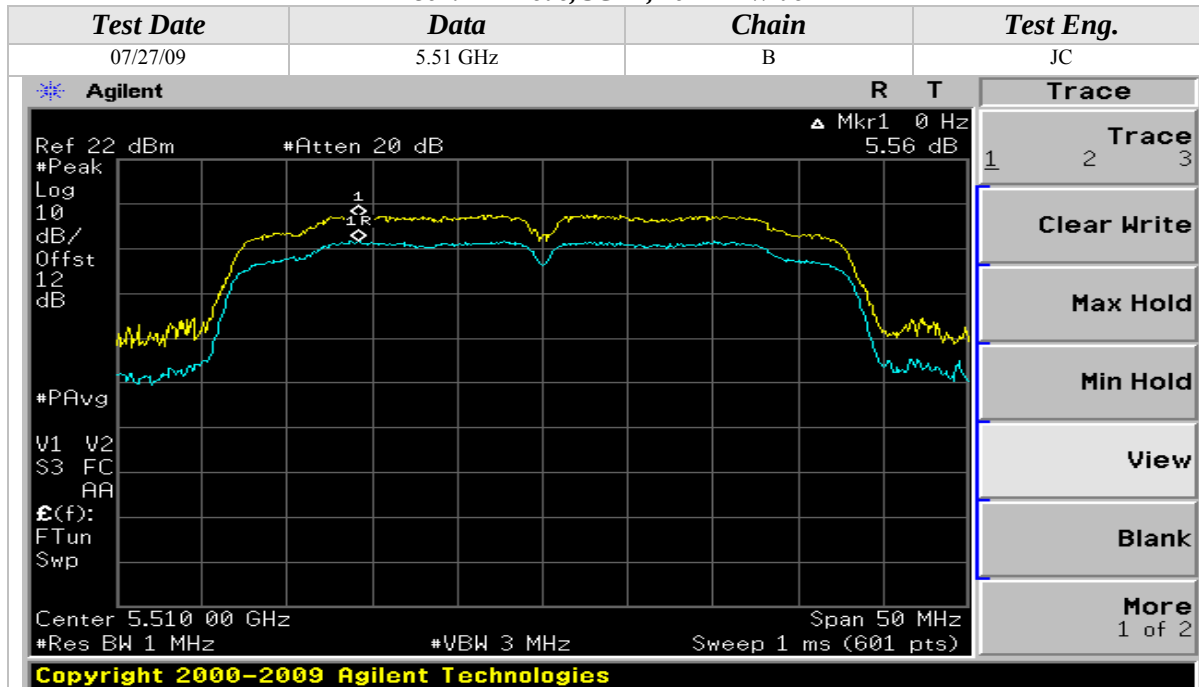
802.11n Mode, 5GHz, 40MHz Wide





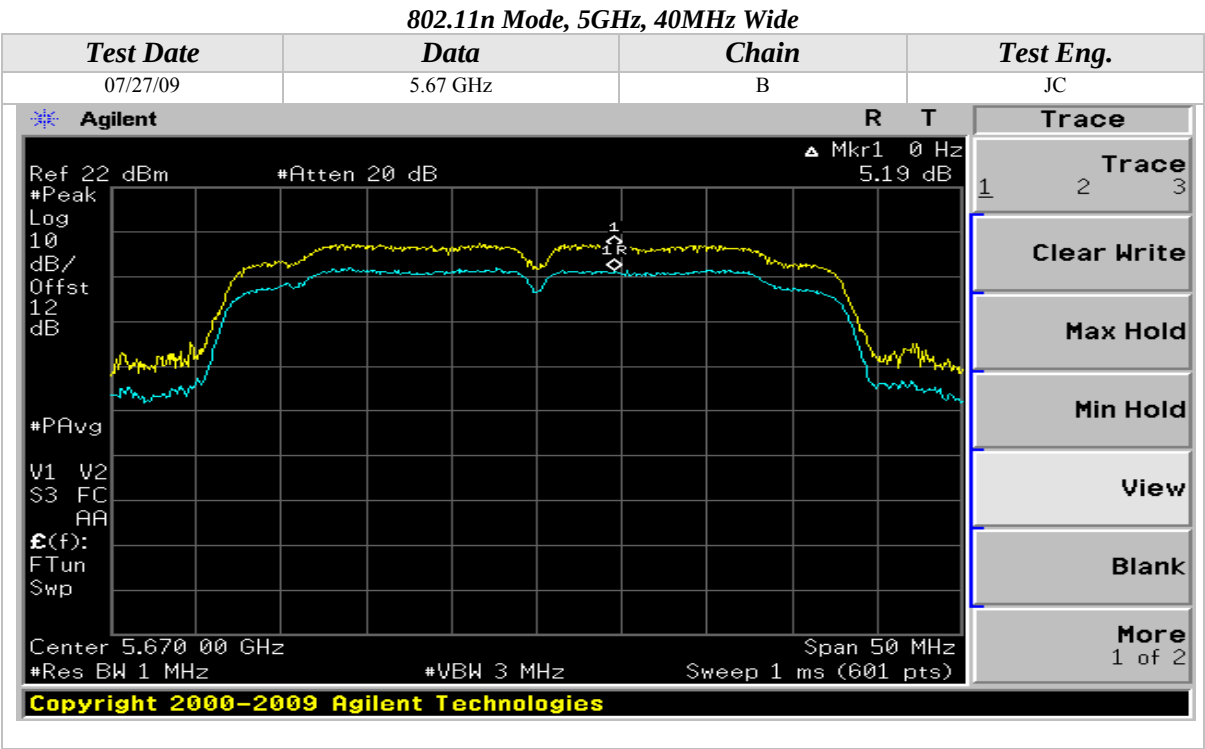
Peak Excursion (Continued)

802.11n Mode, 5GHz, 40MHz Wide





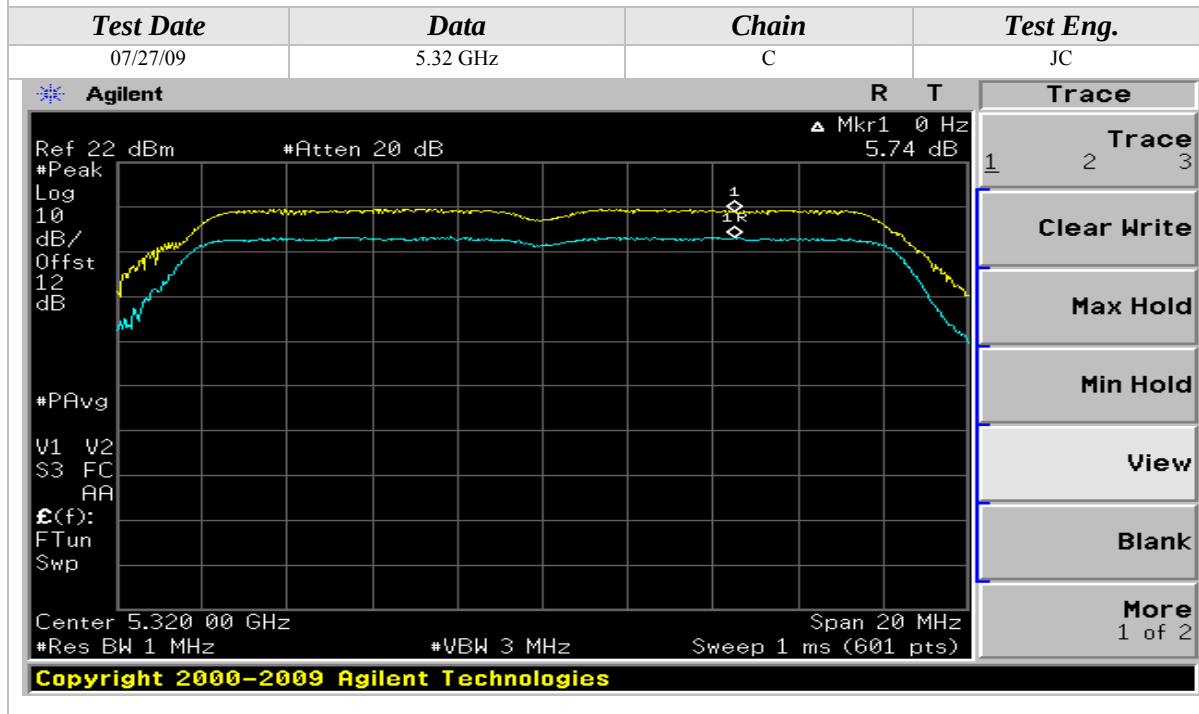
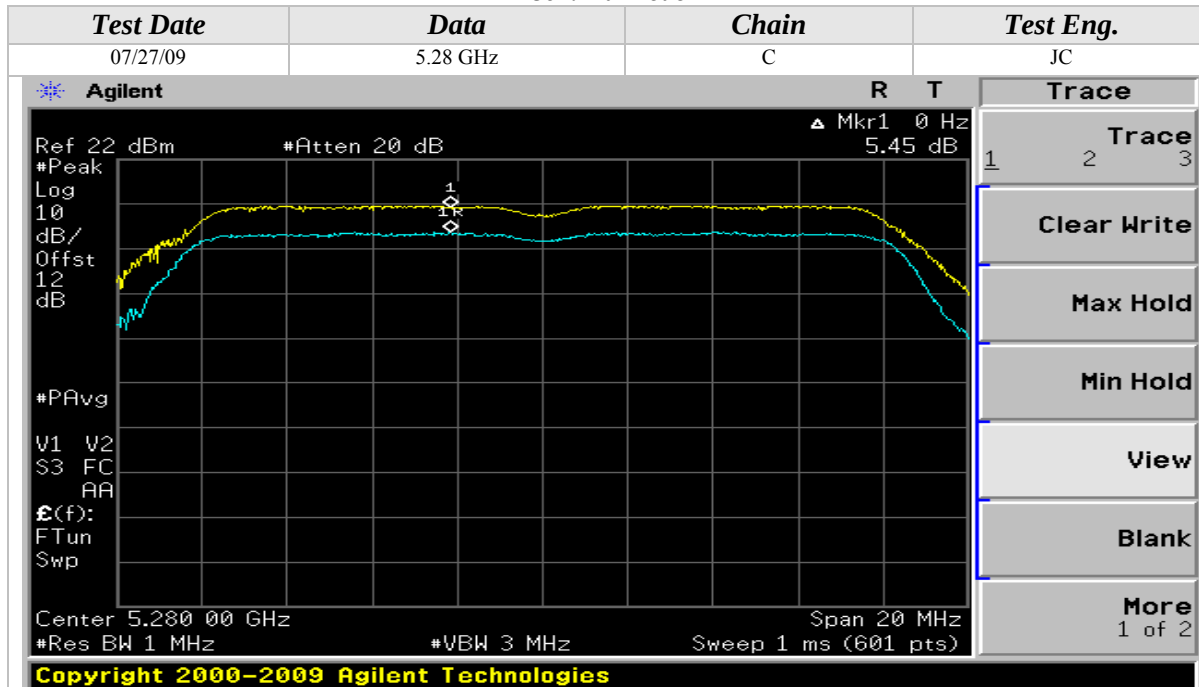
Peak Excursion (Continued)





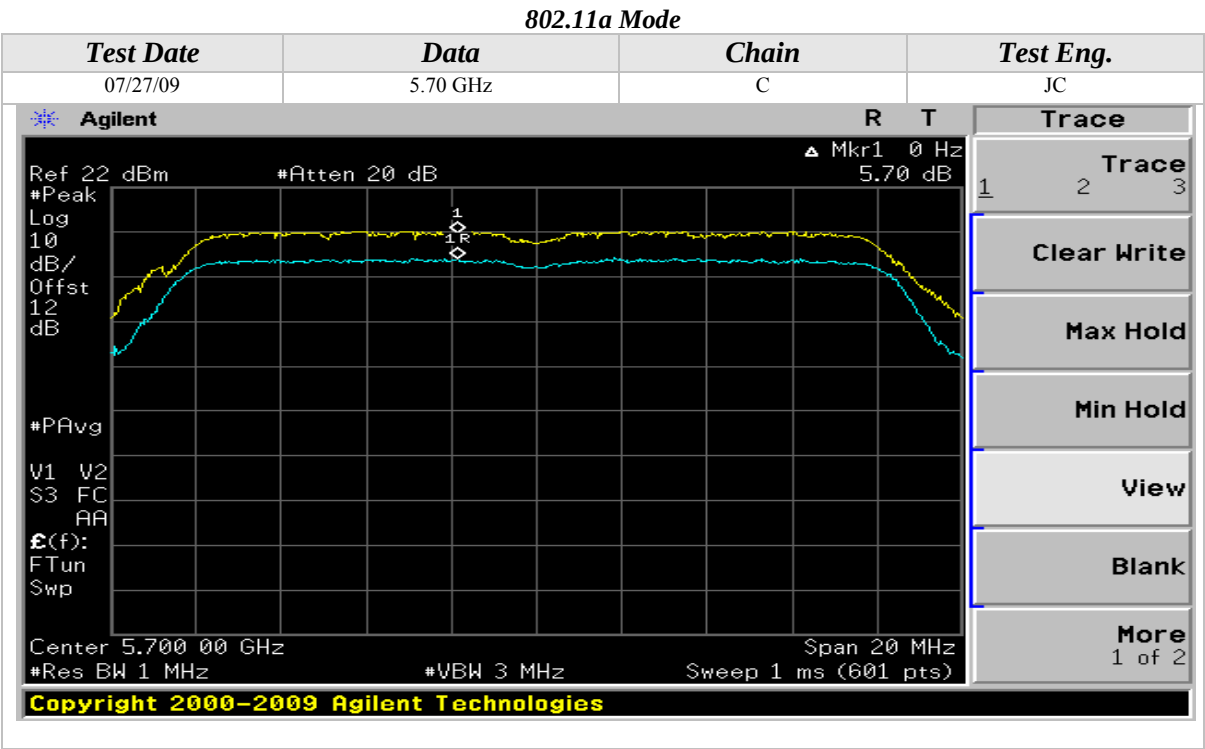
Peak Excursion (Continued)

802.11a Mode





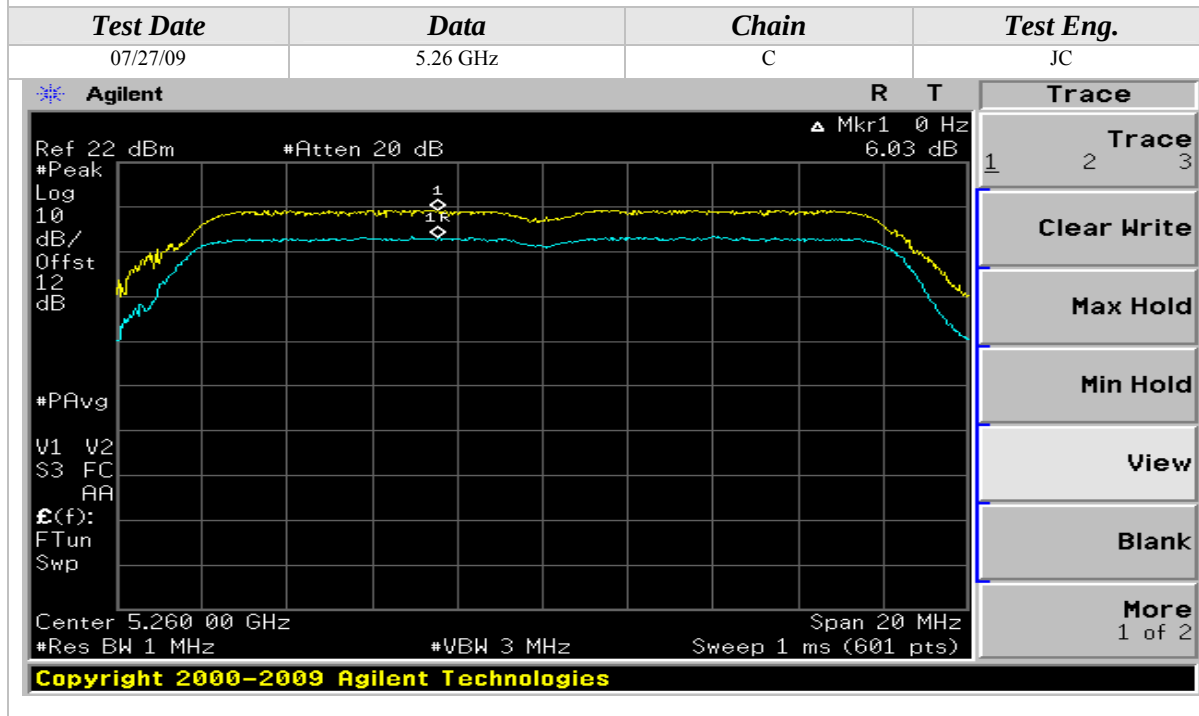
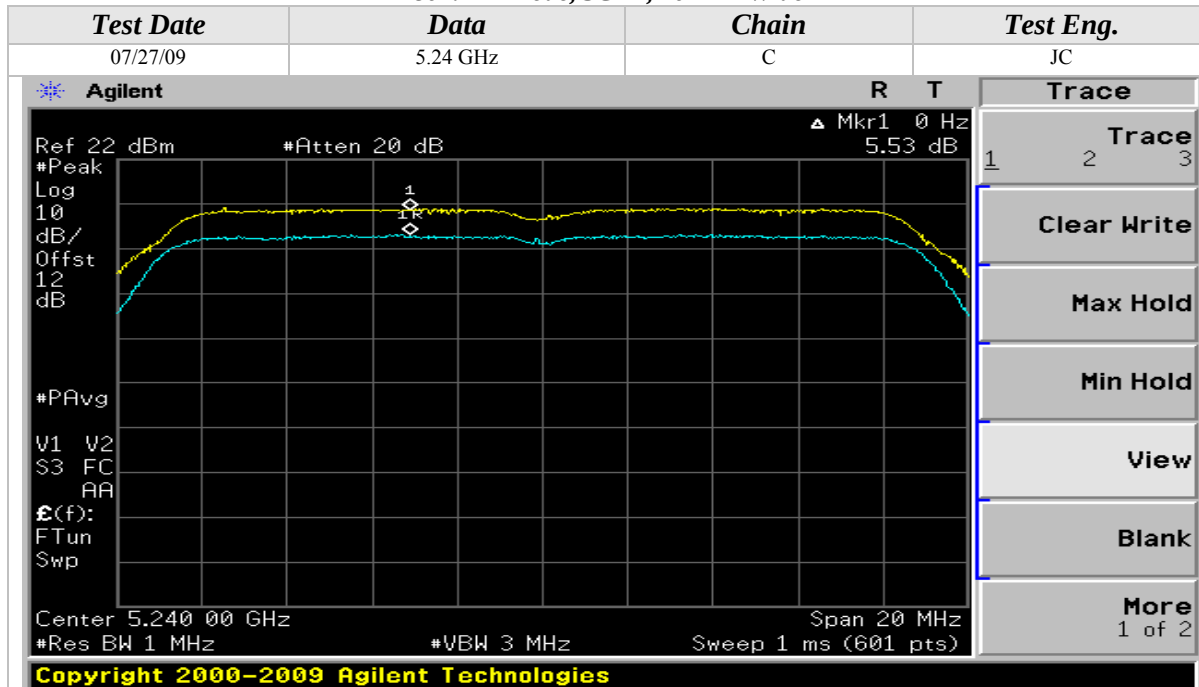
Peak Excursion (Continued)





Peak Excursion (Continued)

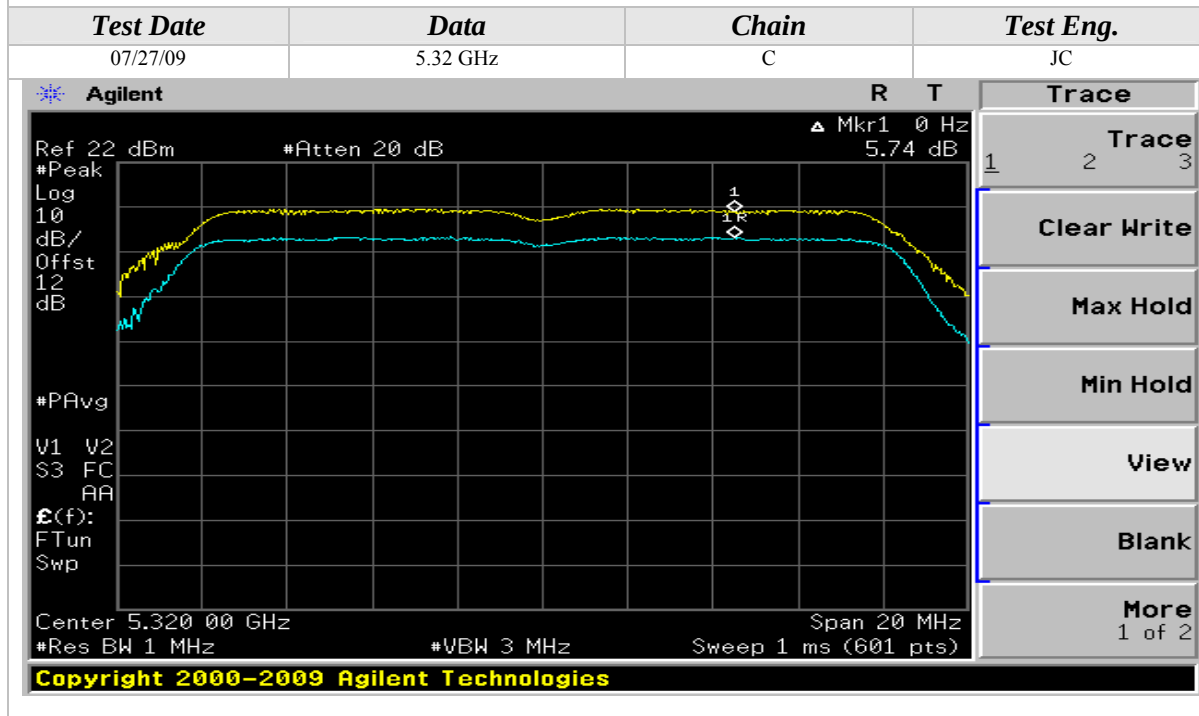
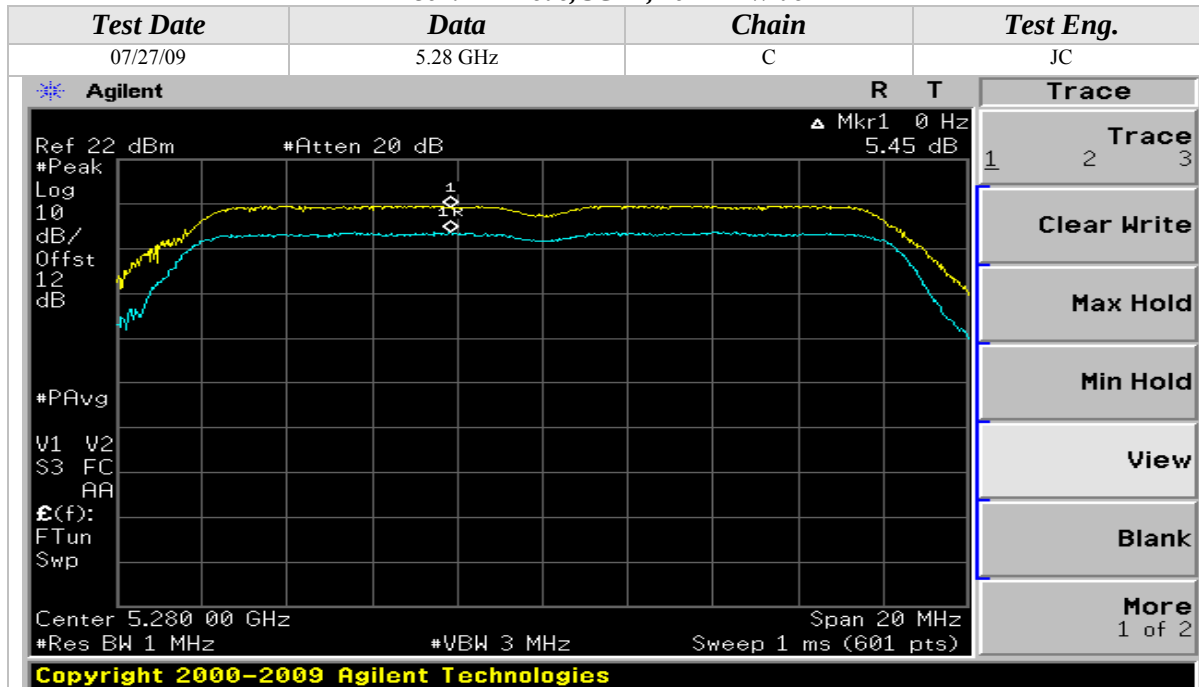
802.11n Mode, 5GHz, 20MHz Wide





Peak Excursion (Continued)

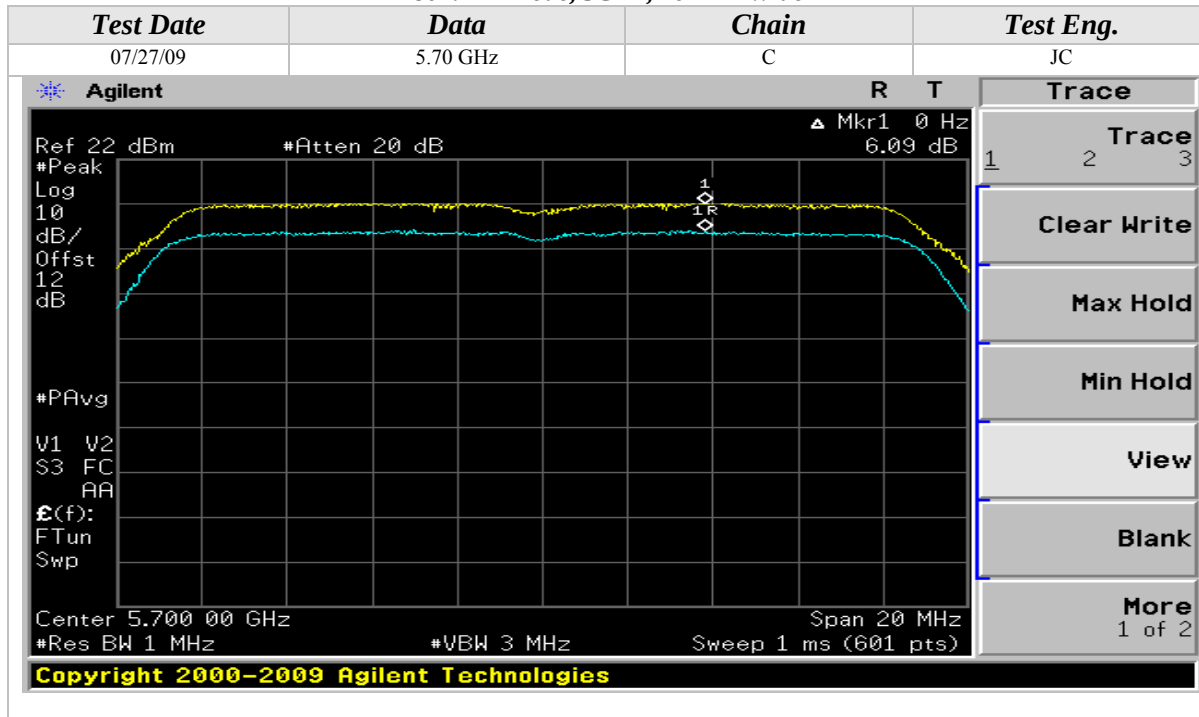
802.11n Mode, 5GHz, 20MHz Wide





Peak Excursion (Continued)

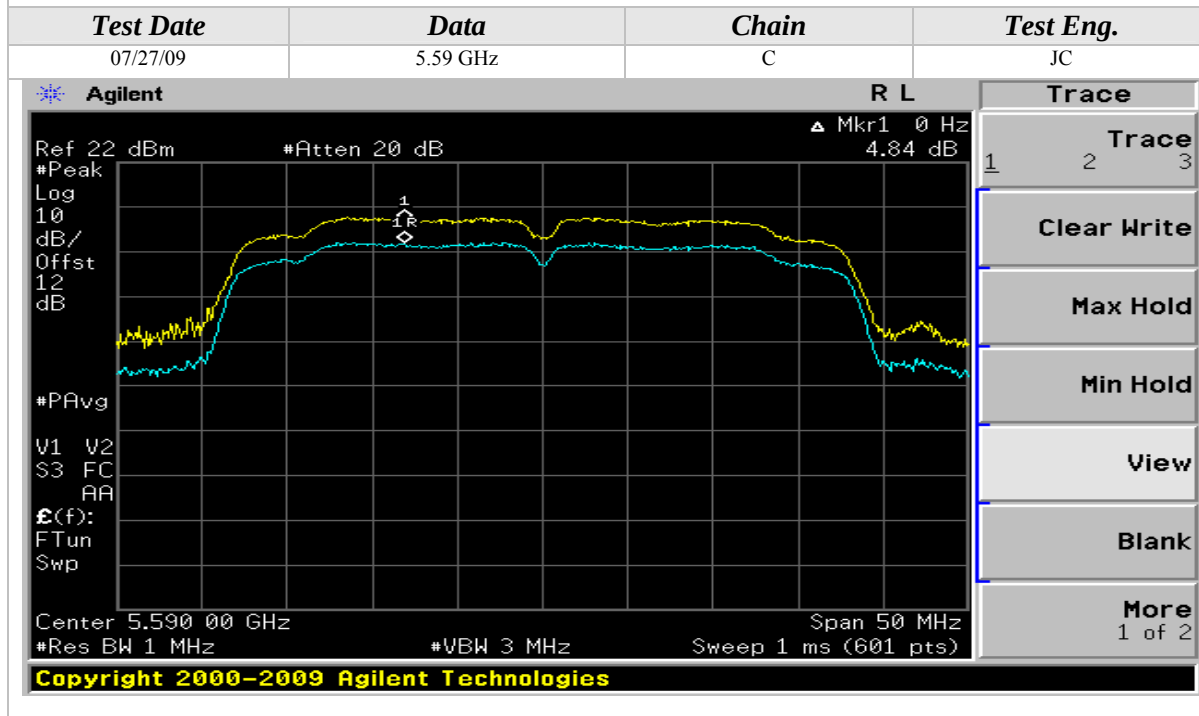
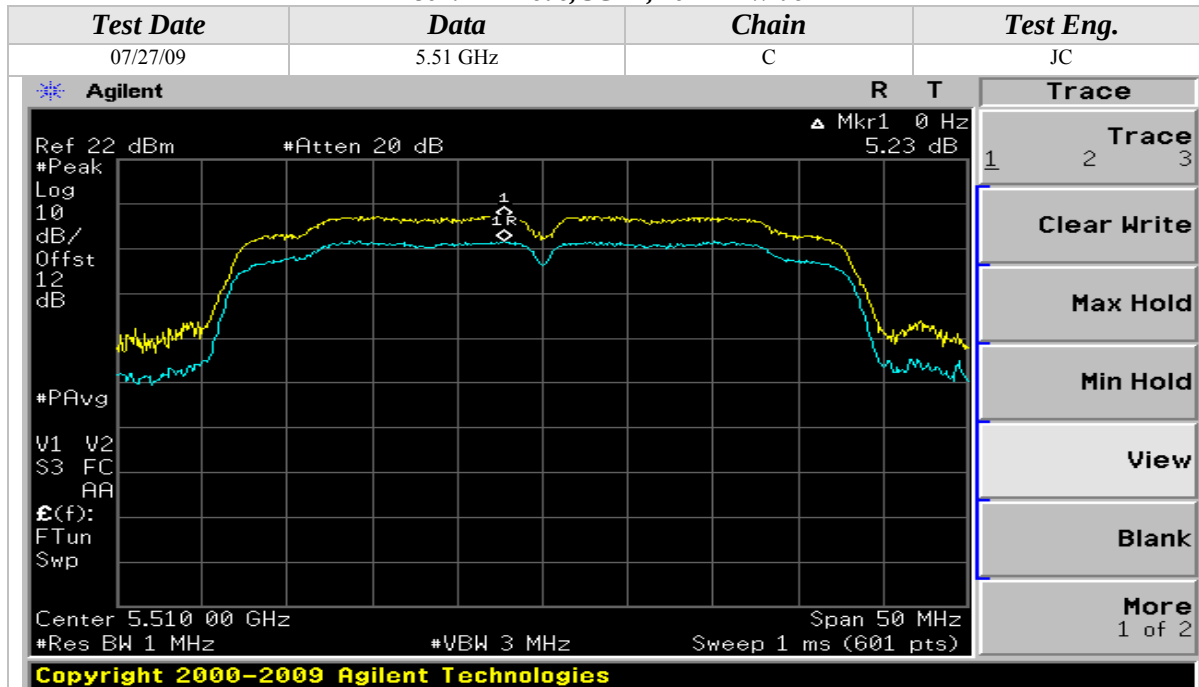
802.11n Mode, 5GHz, 20MHz Wide





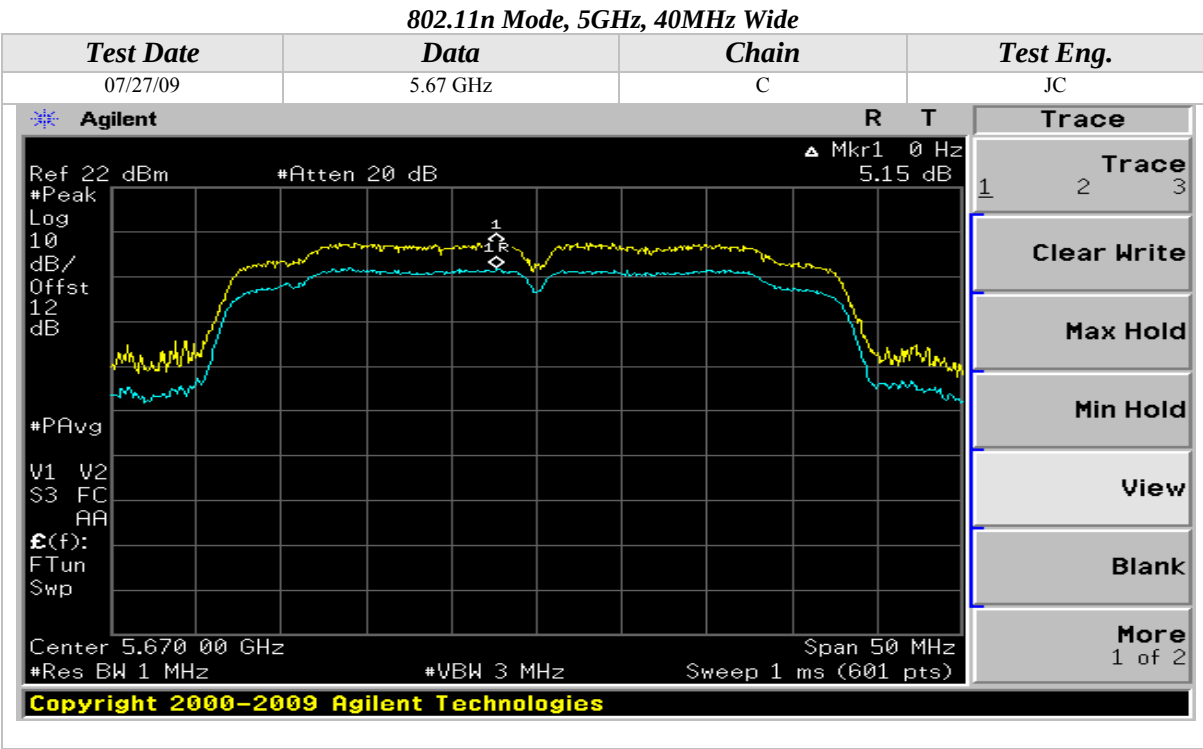
Peak Excursion (Continued)

802.11n Mode, 5GHz, 40MHz Wide





Peak Excursion (Continued)



**CONDUCTED OUT OF BAND EMISSIONS**

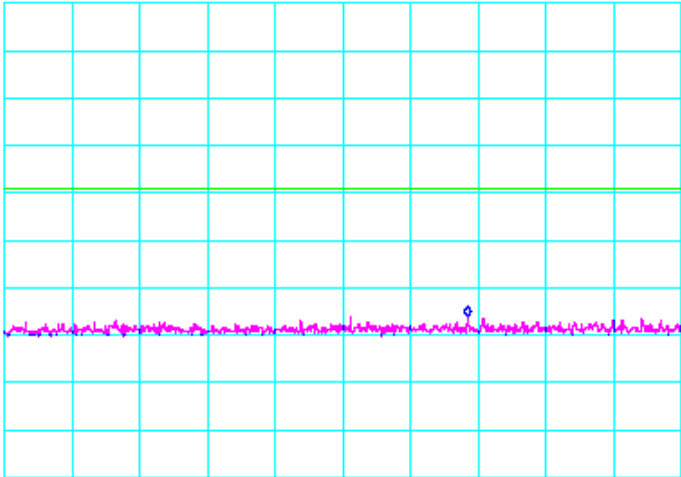
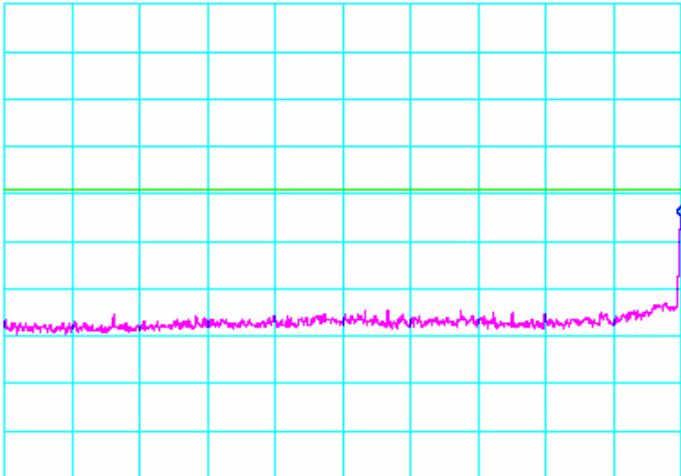
CLIENT:	Intel Corporation	DATE:	07/24/09
EUT:	Intel WiFi Link 6300	PROJECT NUMBER:	INTEL-090526
MODEL NUMBER:	633ANHMW	TEST ENGINEER:	JC
SERIAL NUMBER:	0015005A17C0	SITE #:	2
CONFIGURATION:	Tested installed in an extender board connected to the host laptop's mini PCI slot	TEMPERATURE:	22 deg. C
		HUMIDITY:	46% RH
		TIME:	9:00 AM

Description:	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. 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. 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.
Results:	See Data Sheet
Note:	Conducted Emissions Measurements were performed on the EUT with power supply set at the following voltage and frequency. • 120VAC / 60 Hz.



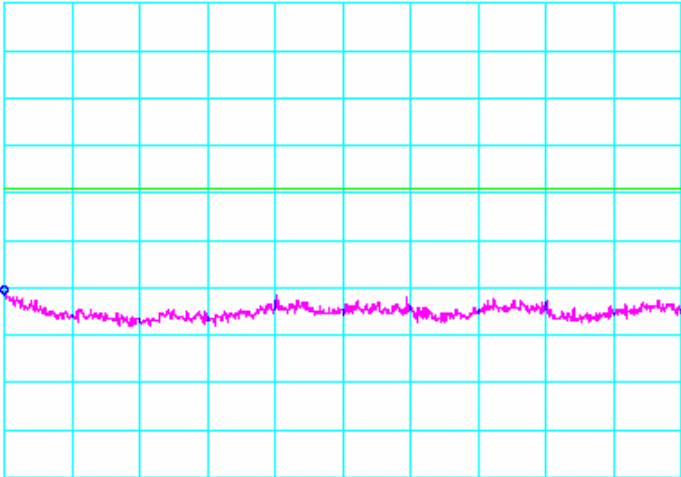
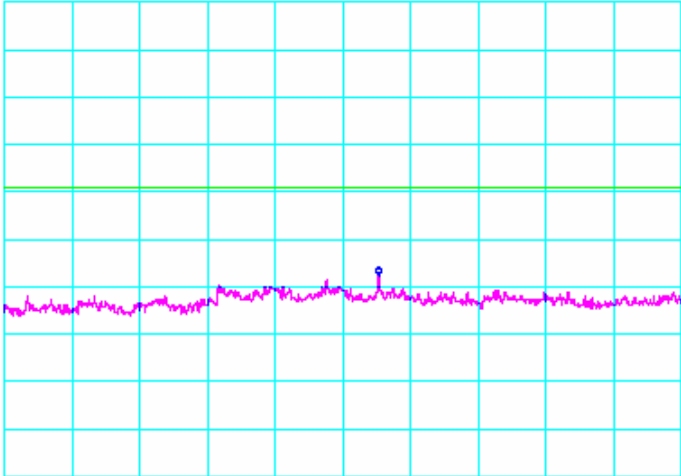
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.18 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.00dBm 694.5MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.18 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -32.67dBm 5.150GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			

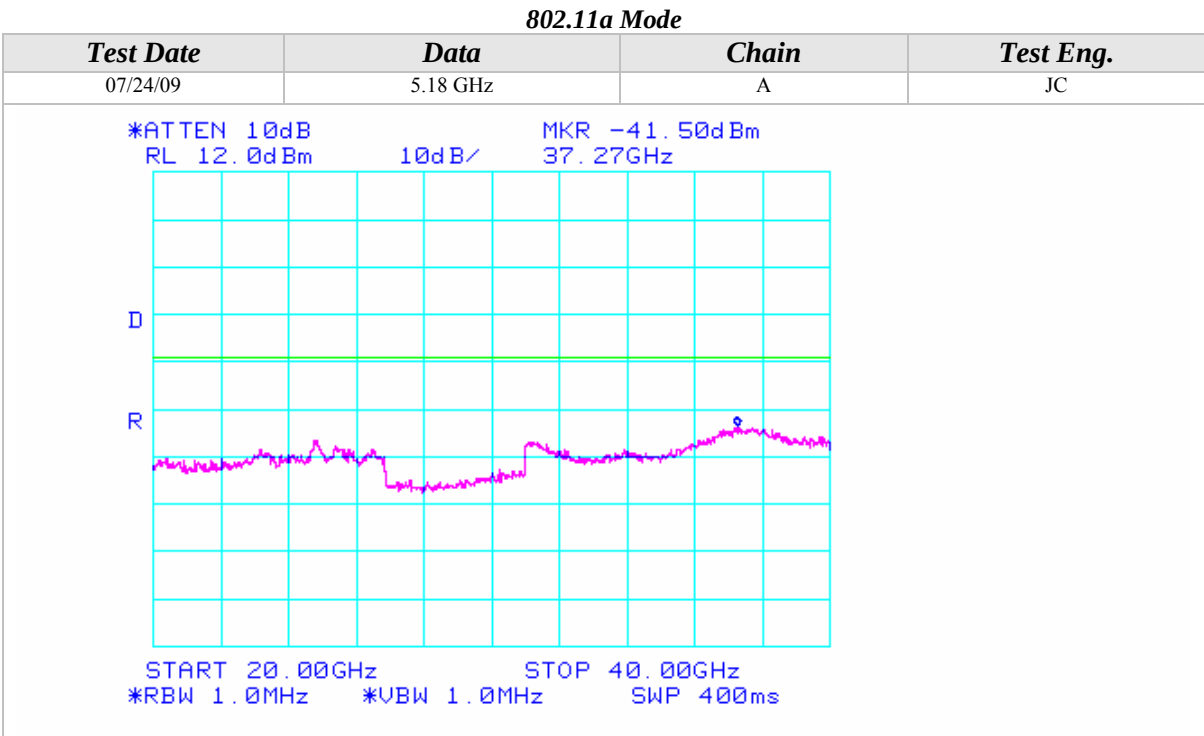


Conducted Out Of Band Emissions (Continued)

802.11a Mode			
Test Date	Data	Chain	Test Eng.
07/24/09	5.18 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.50dBm 5.350GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.18 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -45.67dBm 15.53GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



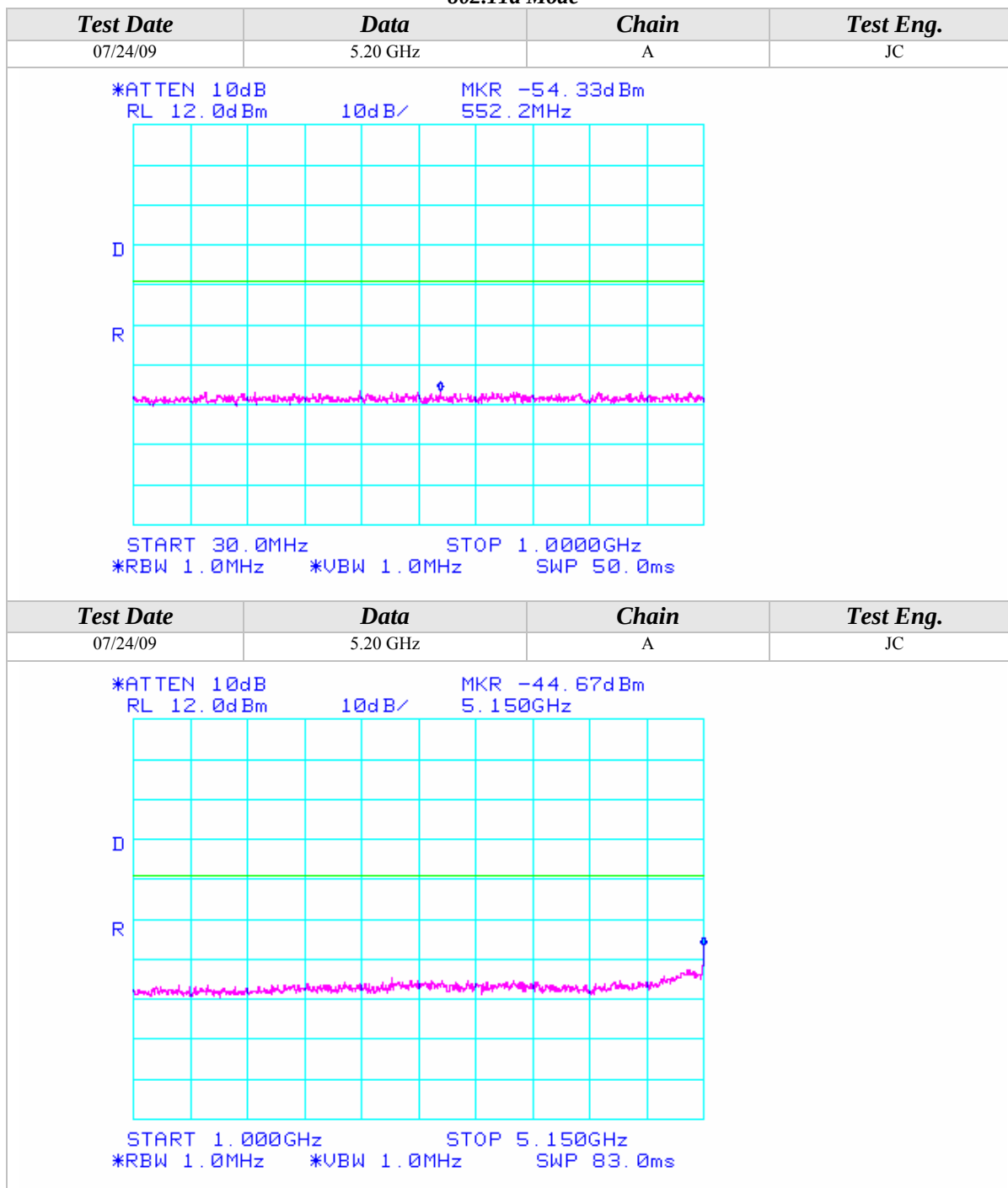
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

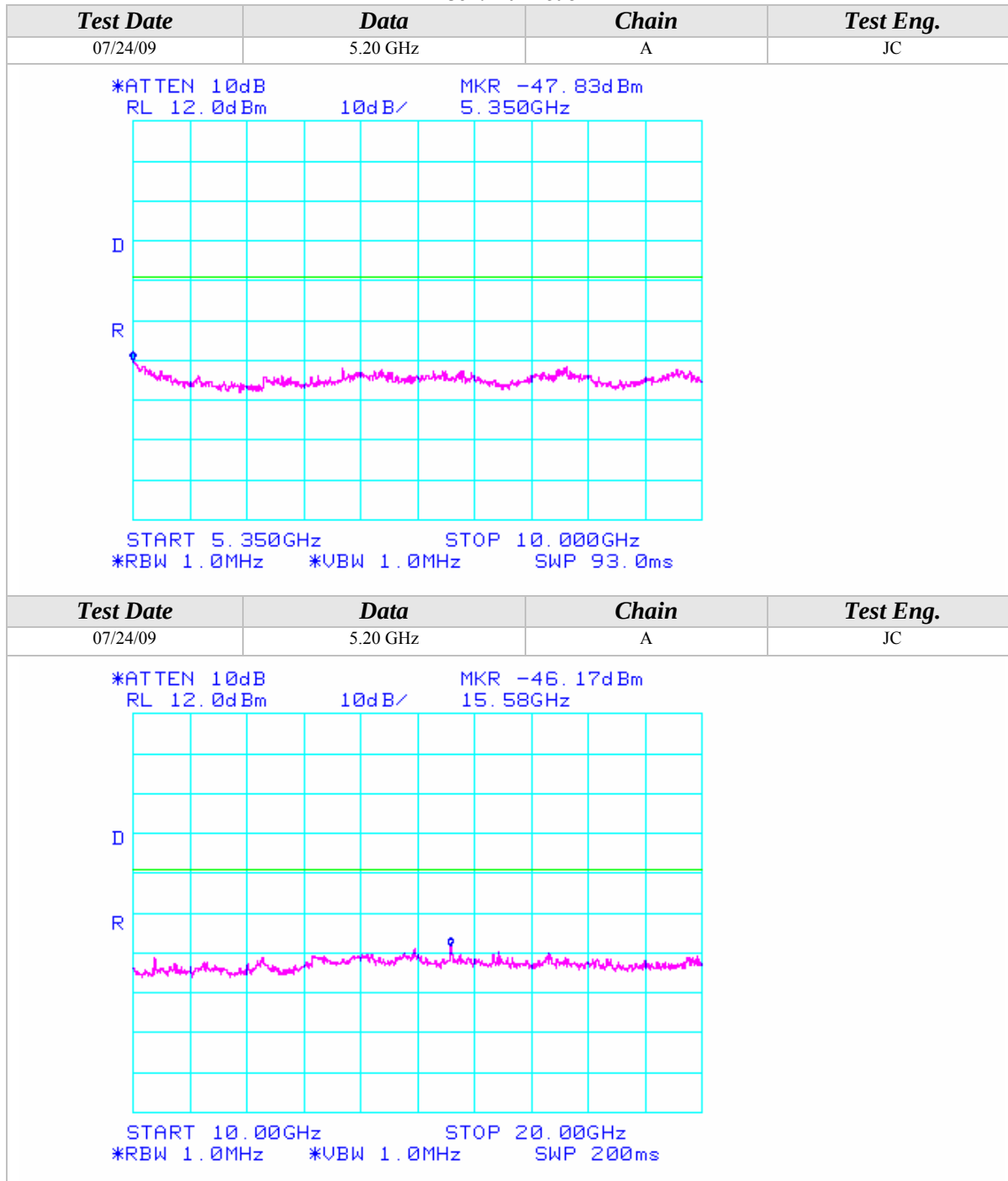
802.11a Mode





Conducted Out Of Band Emissions (Continued)

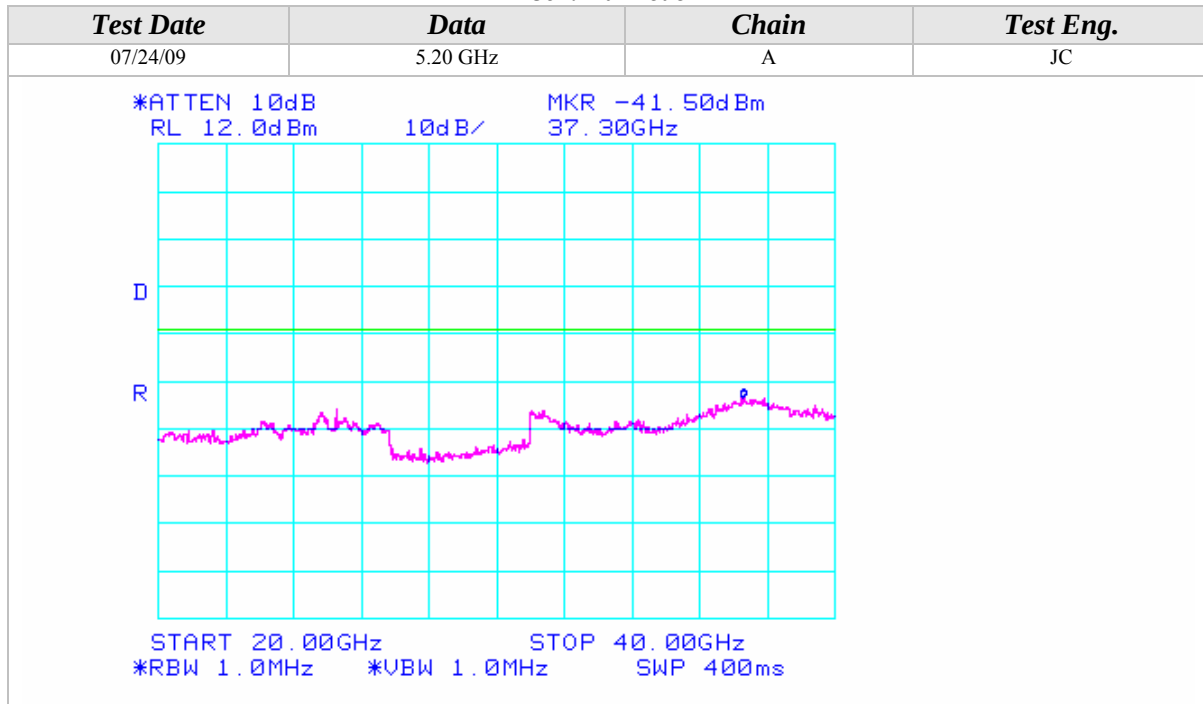
802.11a Mode





Conducted Out Of Band Emissions (Continued)

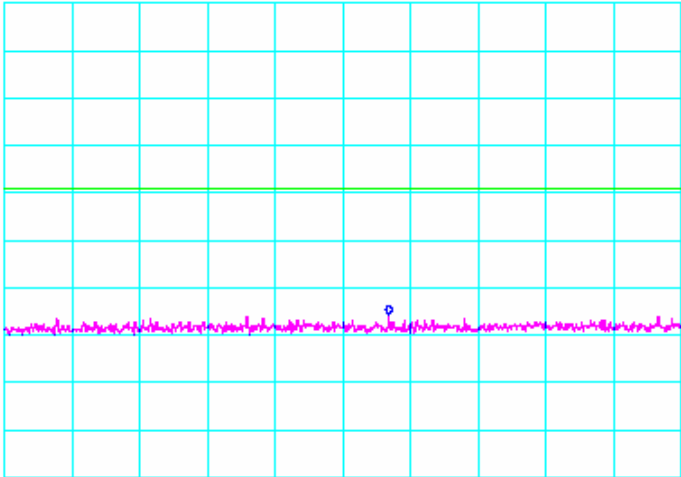
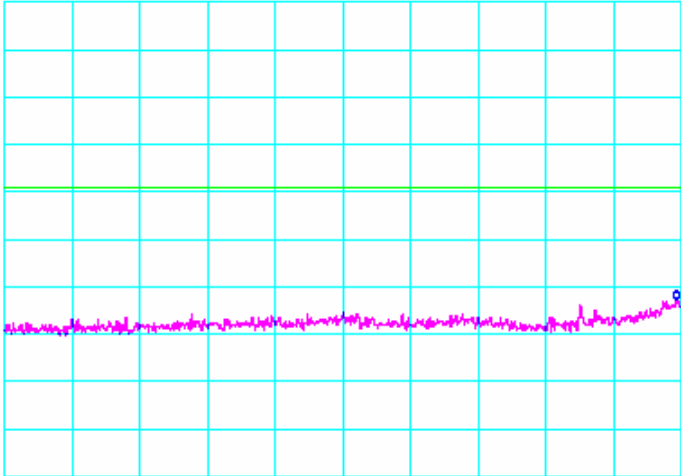
802.11a Mode





Conducted Out Of Band Emissions (Continued)

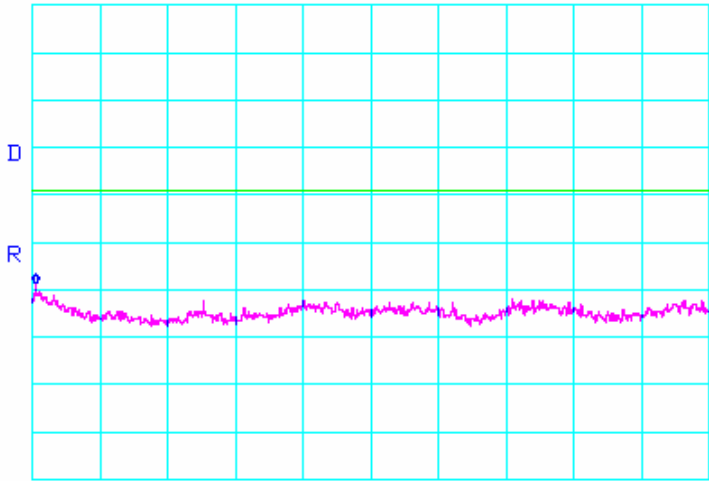
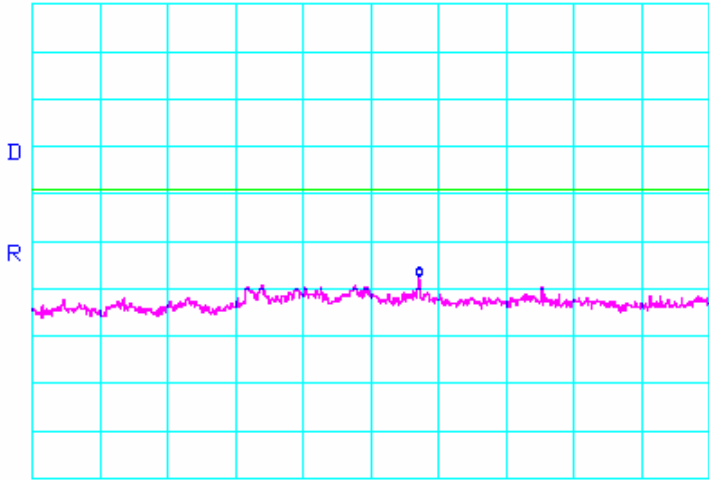
802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.24 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -53.67dBm 581.3MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.24 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -50.83dBm 5.122GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



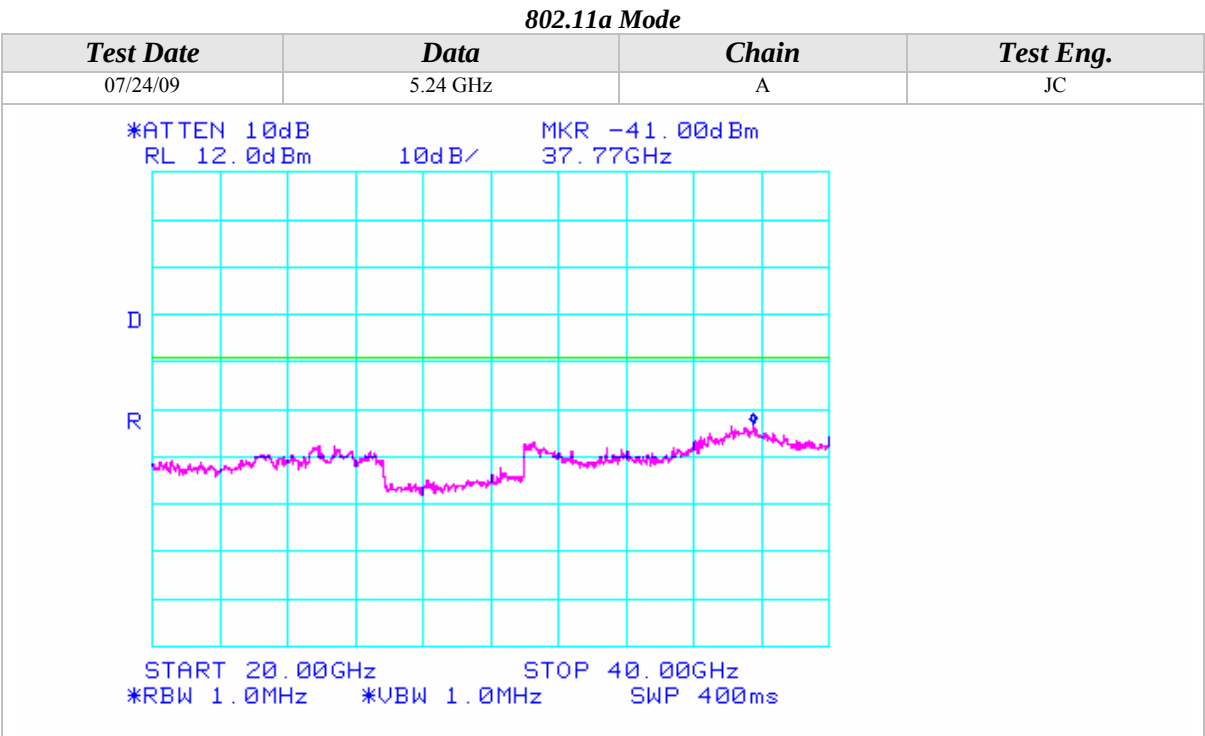
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.24 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -46.67dBm 5.373GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.24 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -45.50dBm 15.72GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



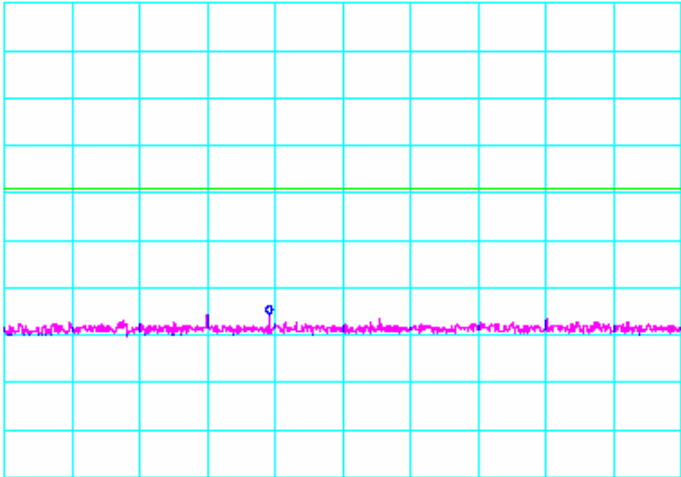
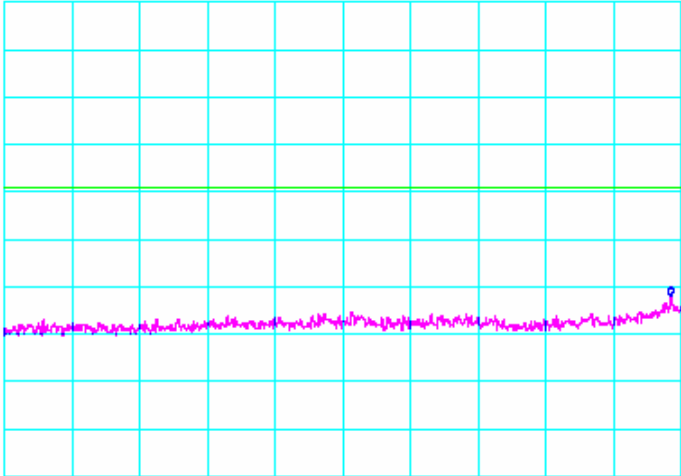
Conducted Out Of Band Emissions (Continued)





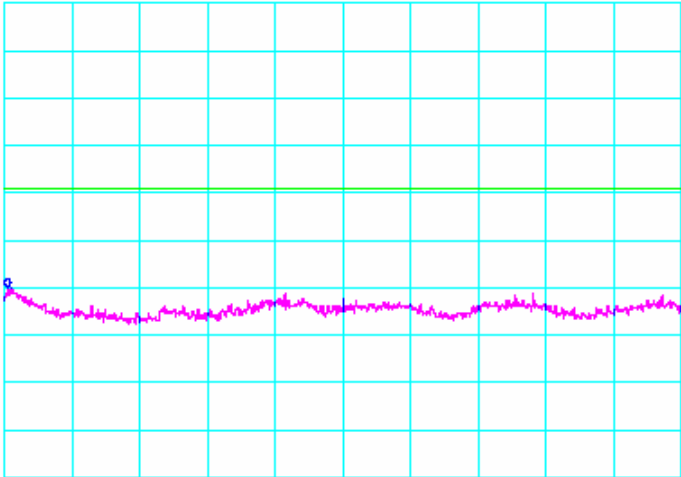
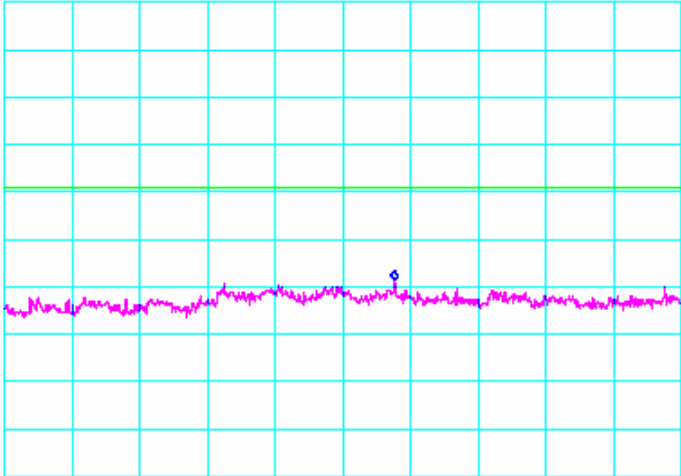
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -53.67dBm 409.9MHz  START 30.0MHz *RBW 1.0MHz STOP 1.0000GHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -50.00dBm 5.088GHz  START 1.000GHz *RBW 1.0MHz STOP 5.150GHz *VBW 1.0MHz SWP 83.0ms			



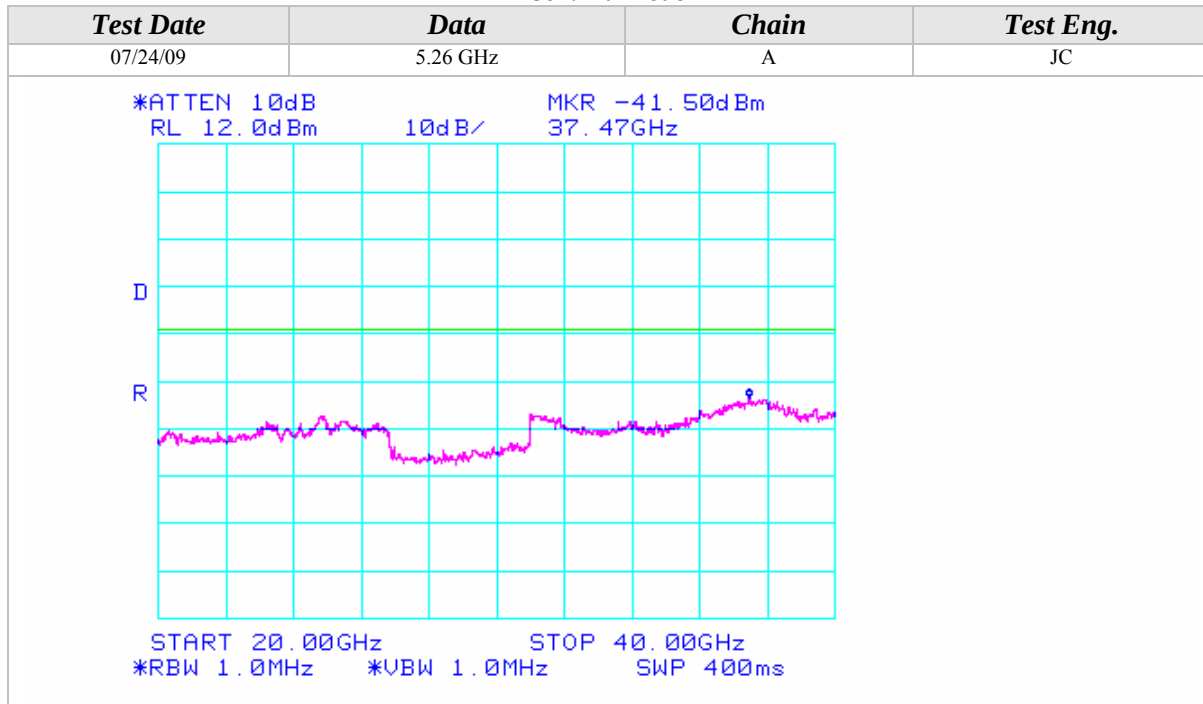
Conducted Out Of Band Emissions (Continued)

802.11a Mode			
Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -48.00dBm 5.373GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -46.67dBm 15.77GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



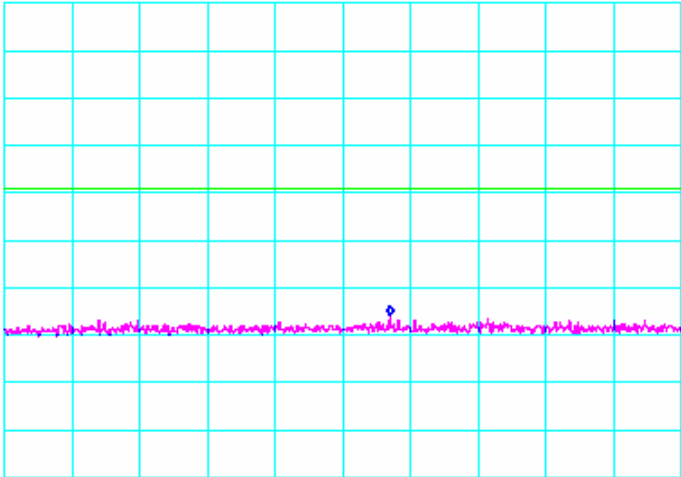
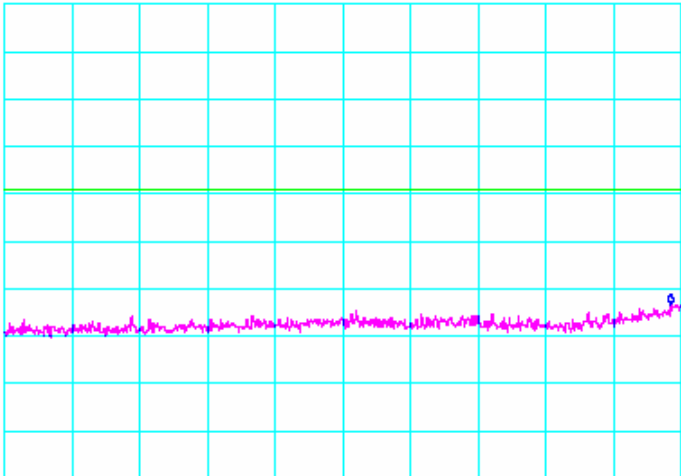
Conducted Out Of Band Emissions (Continued)

802.11a Mode





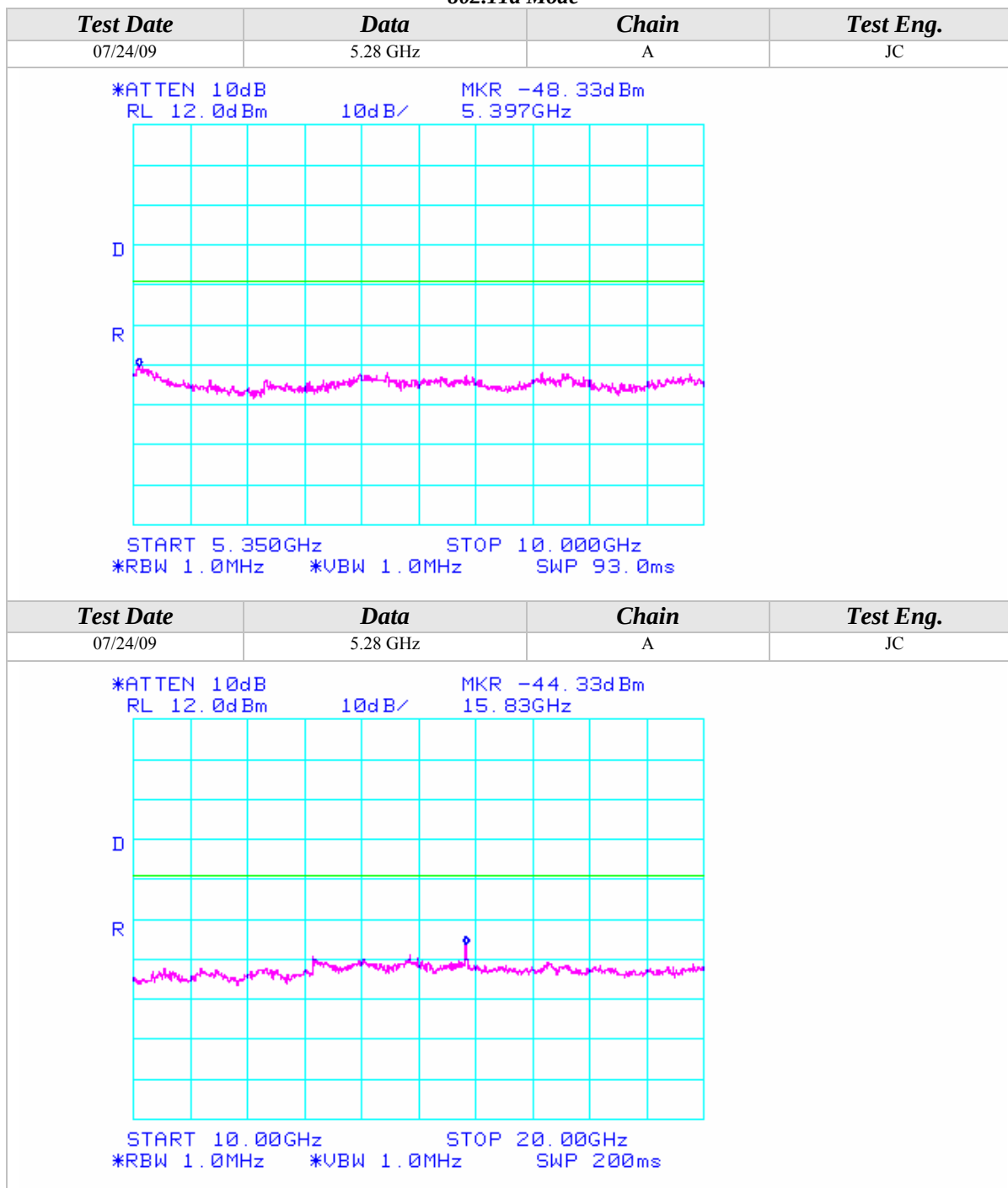
Conducted Out Of Band Emissions (Continued)

802.11a Mode			
Test Date	Data	Chain	Test Eng.
07/24/09	5.28 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -53.83dBm 582.9MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.28 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -51.33dBm 5.088GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



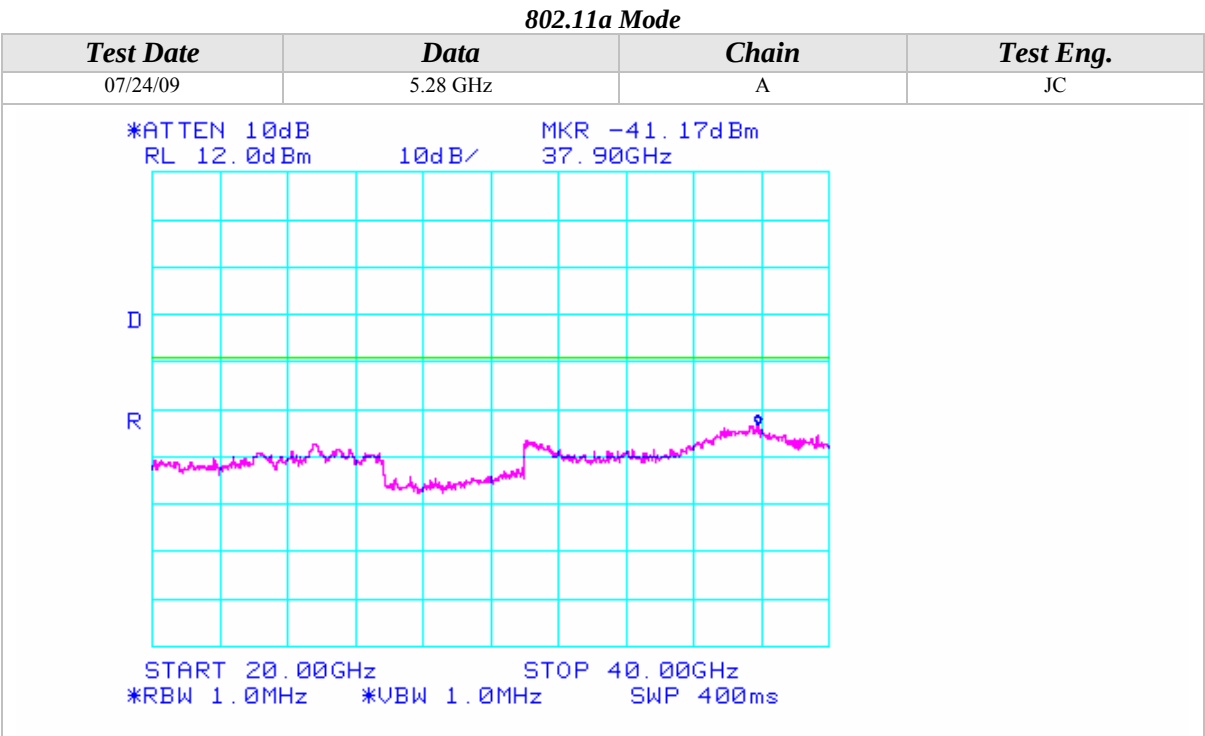
Conducted Out Of Band Emissions (Continued)

802.11a Mode





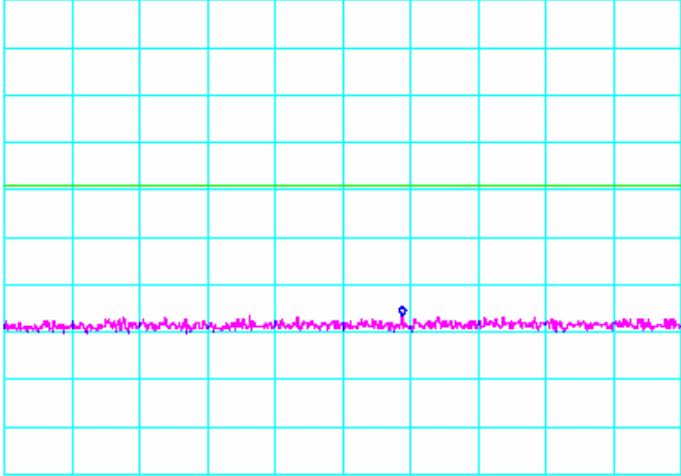
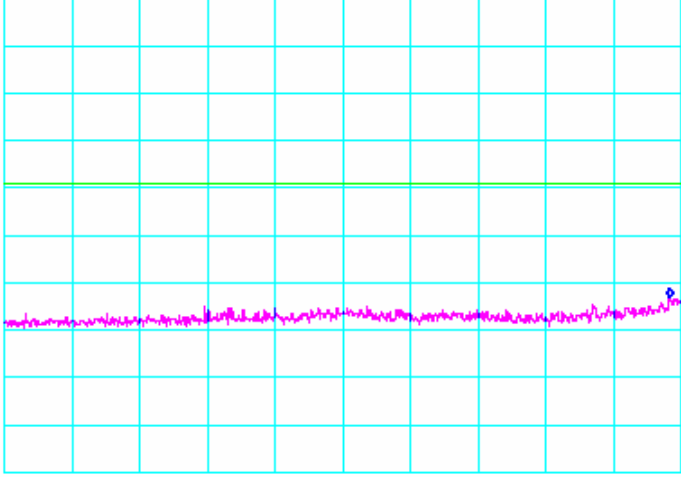
Conducted Out Of Band Emissions (Continued)





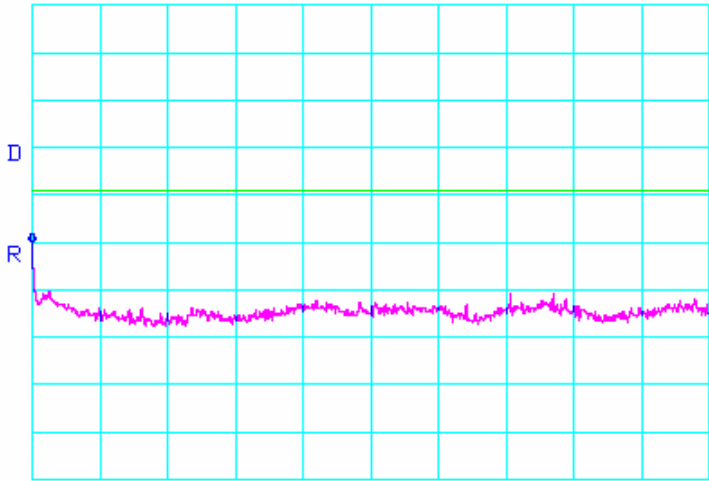
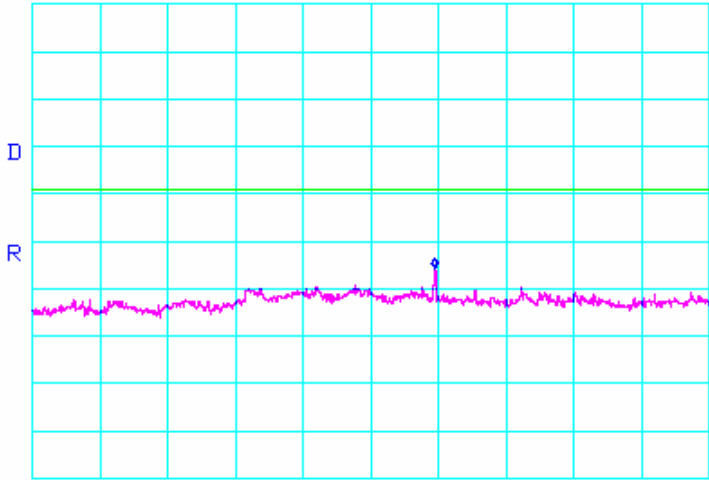
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.32 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.50dBm 600.7MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.32 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -51.17dBm 5.081GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			

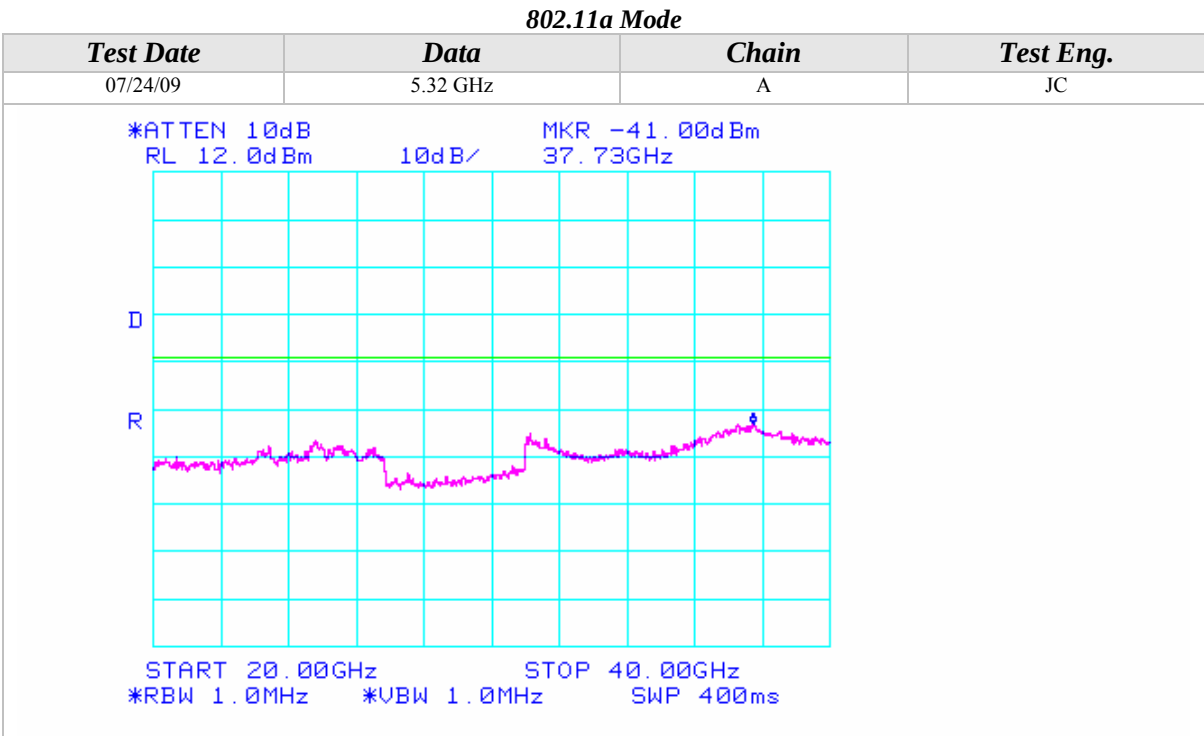


Conducted Out Of Band Emissions (Continued)

802.11a Mode			
Test Date	Data	Chain	Test Eng.
07/24/09	5.32 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -38.17dBm 5.350GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.32 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -43.67dBm 15.95GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



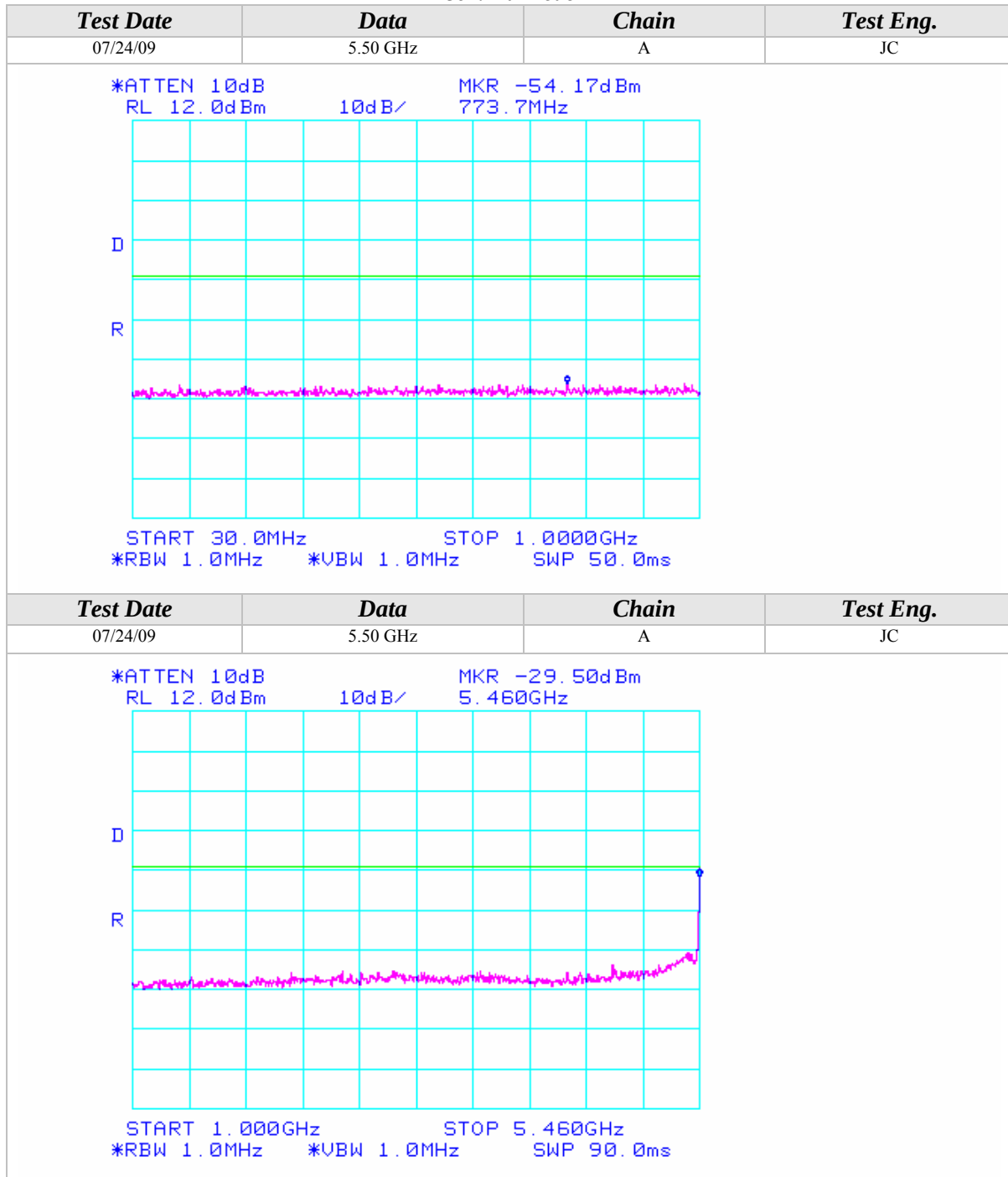
Conducted Out Of Band Emissions (Continued)





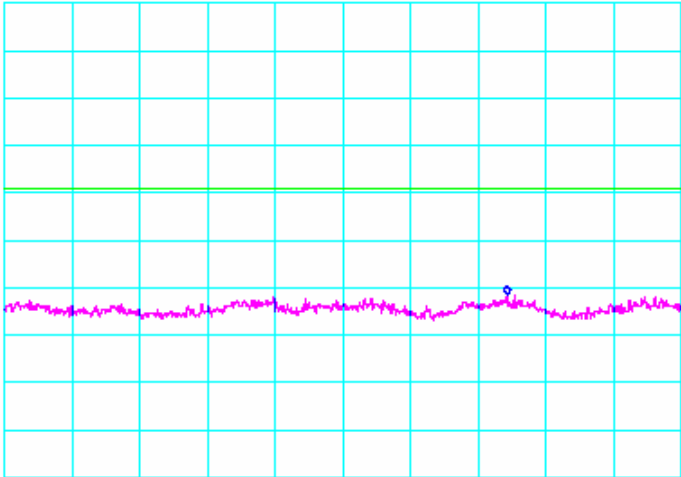
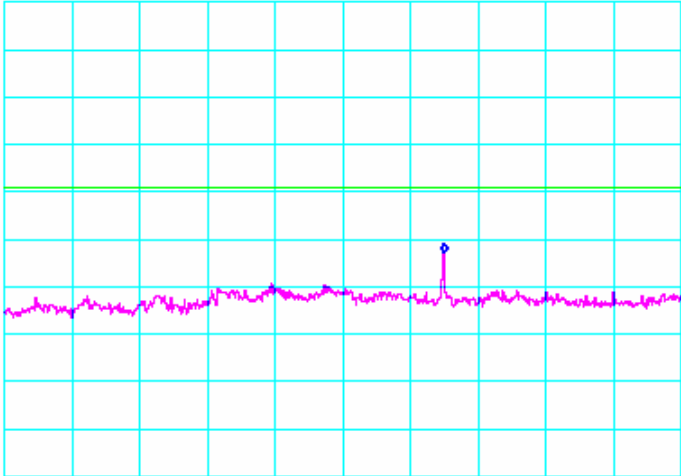
Conducted Out Of Band Emissions (Continued)

802.11a Mode





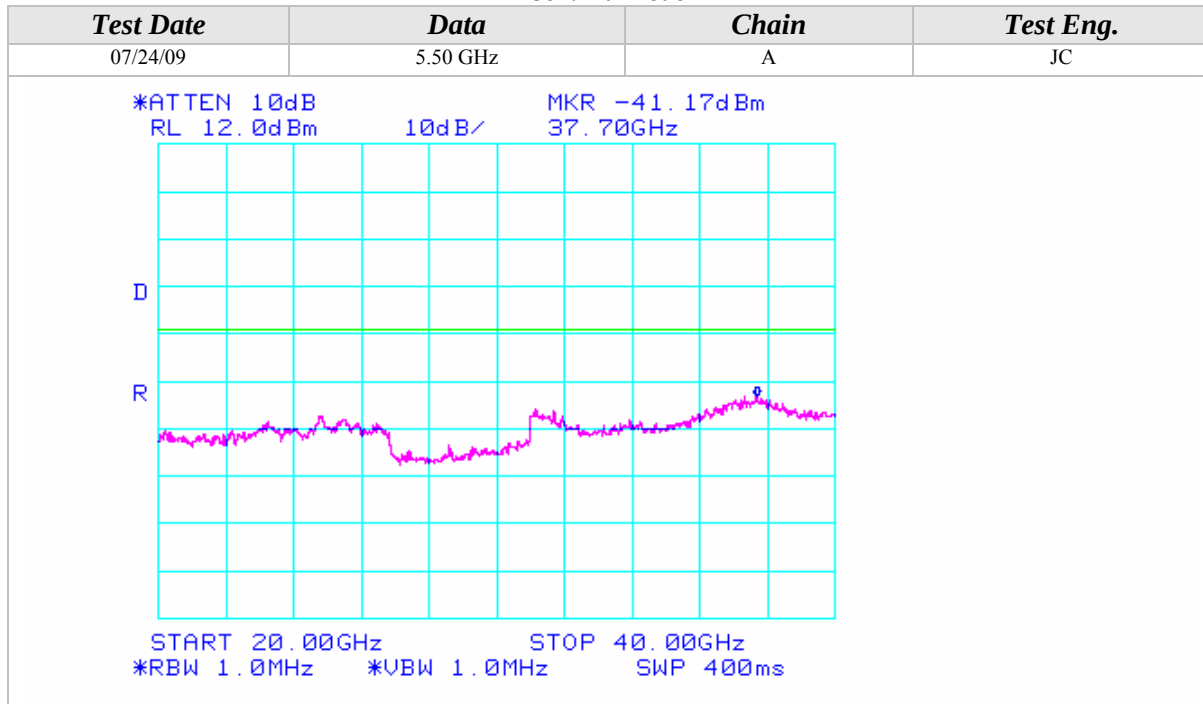
Conducted Out Of Band Emissions (Continued)

802.11a Mode			
Test Date	Data	Chain	Test Eng.
07/24/09	5.50 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.50dBm 8.903GHz  START 5.725GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.50 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -40.83dBm 16.50GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



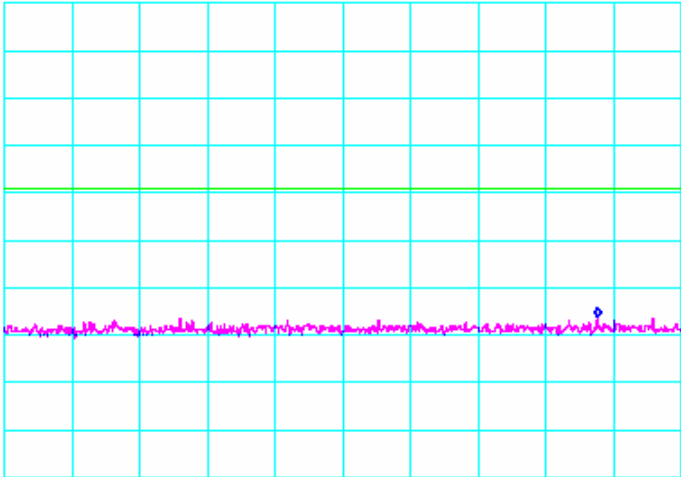
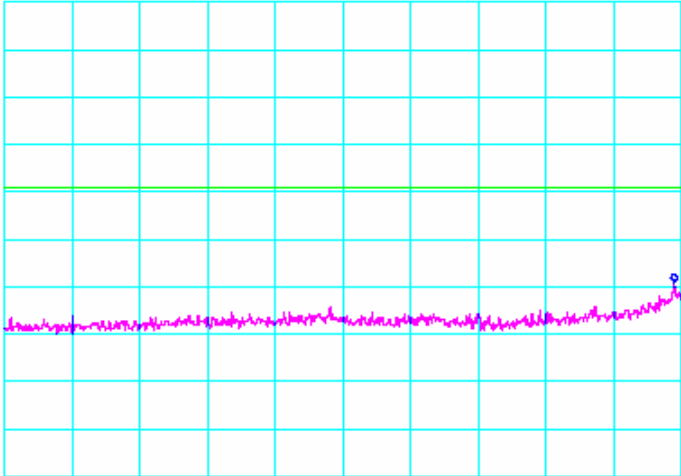
Conducted Out Of Band Emissions (Continued)

802.11a Mode





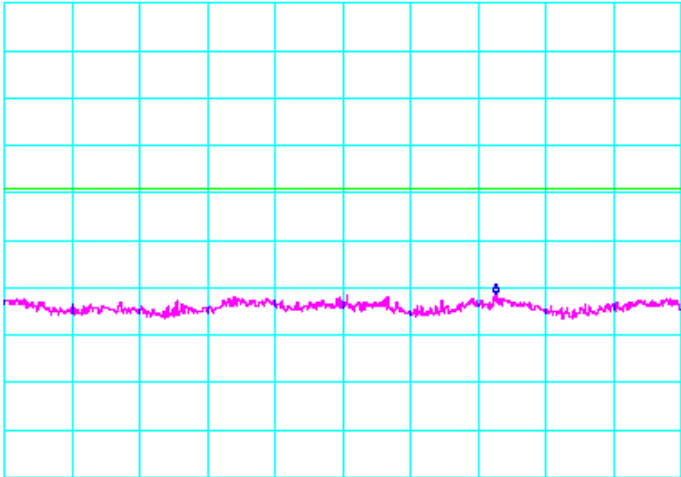
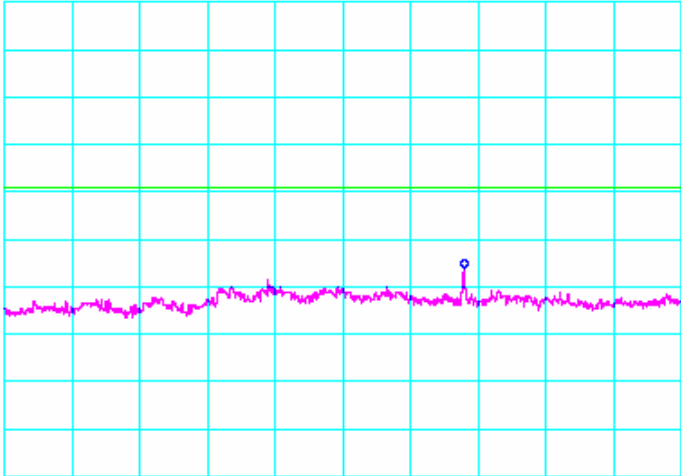
Conducted Out Of Band Emissions (Continued)

802.11a Mode			
Test Date	Data	Chain	Test Eng.
07/24/09	5.60 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.17dBm 880.4MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.60 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.17dBm 5.415GHz  START 1.000GHz STOP 5.460GHz *RBW 1.0MHz *VBW 1.0MHz SWP 90.0ms			



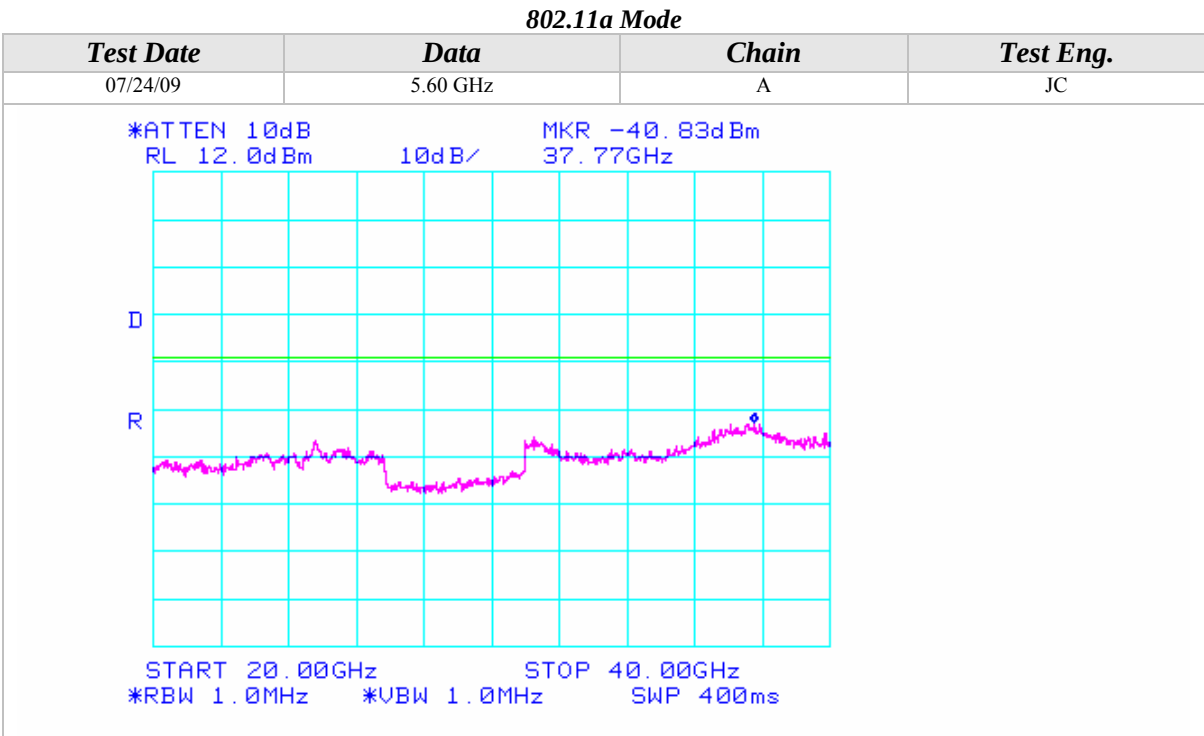
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.60 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.33dBm 8.832GHz  START 5.725GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.60 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -44.17dBm 16.80GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



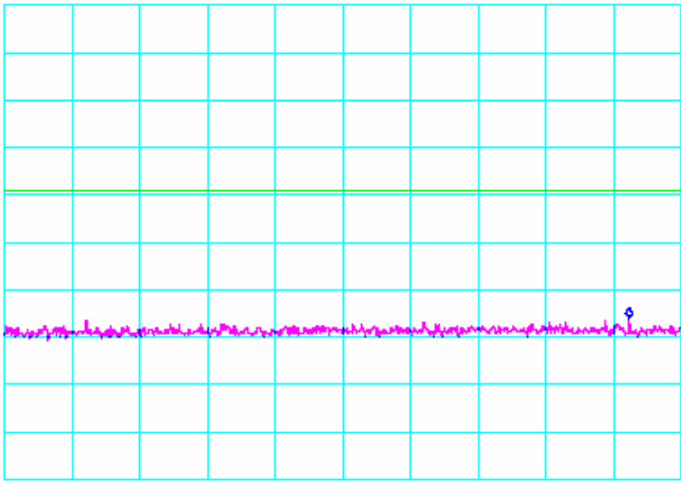
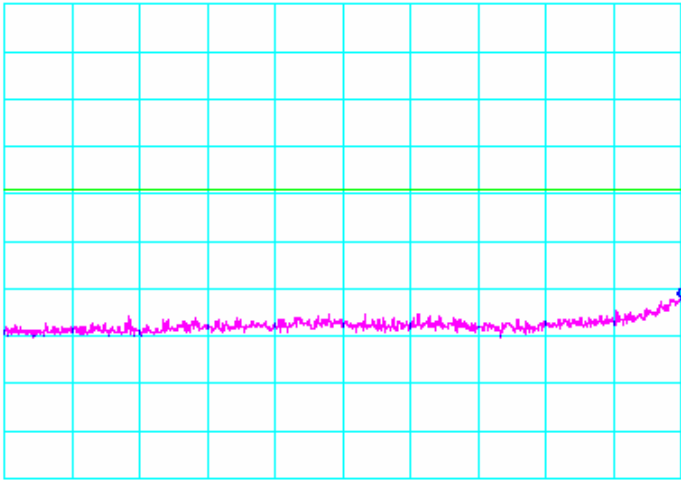
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

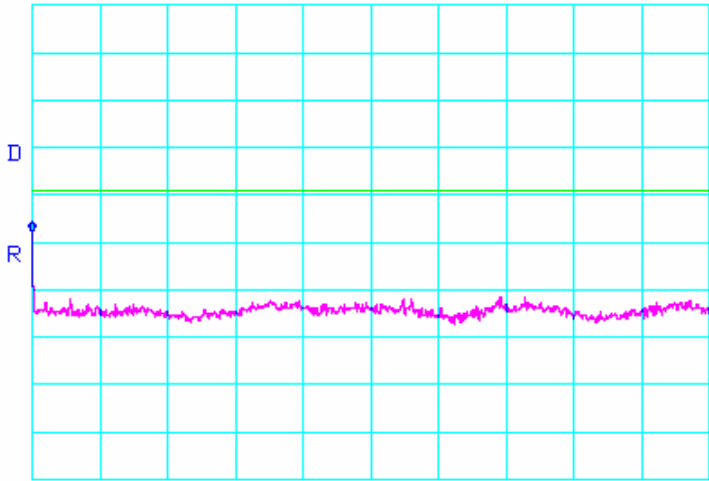
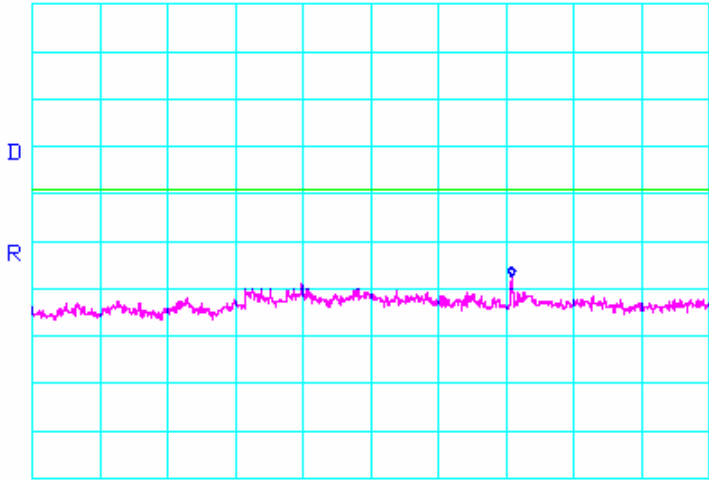
802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.70 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.00dBm 925.6MHz  START 30.0MHz *RBW 1.0MHz STOP 1.0000GHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.70 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -50.00dBm 5.460GHz  START 1.000GHz *RBW 1.0MHz STOP 5.460GHz *VBW 1.0MHz SWP 90.0ms			



Conducted Out Of Band Emissions (Continued)

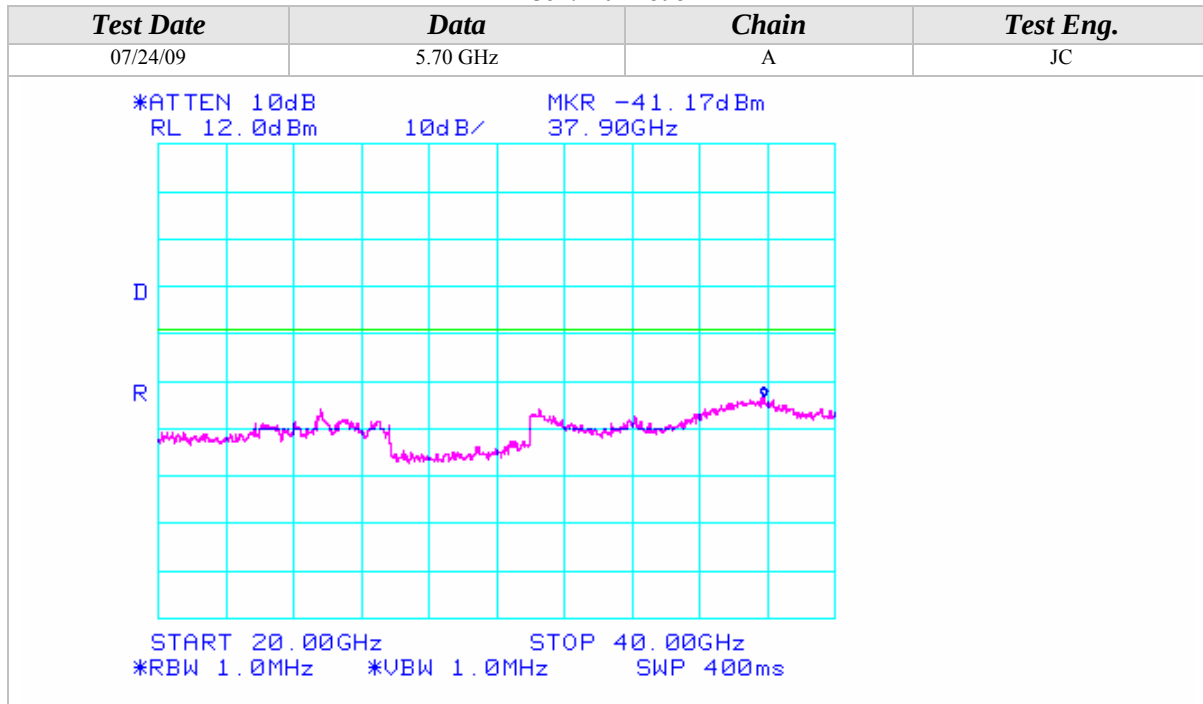
802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.70 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -35.67dBm 5.725GHz  START 5.725GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.70 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -45.33dBm 17.08GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



Conducted Out Of Band Emissions (Continued)

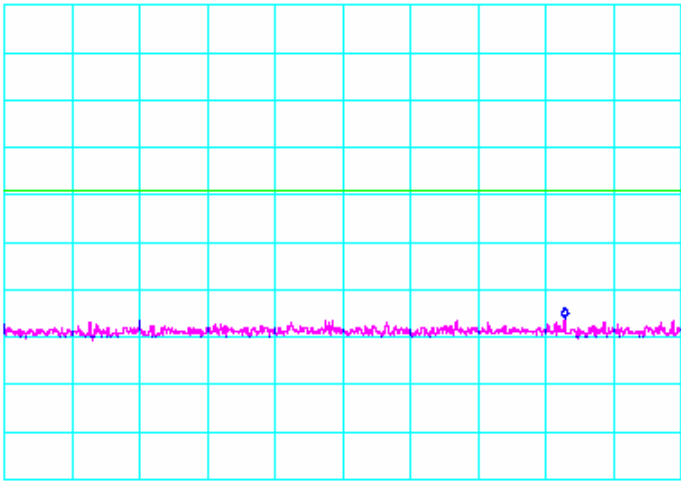
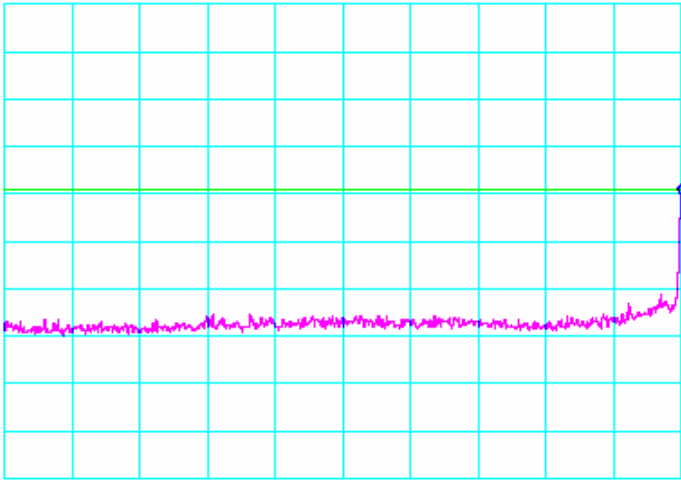
802.11a Mode





Conducted Out Of Band Emissions (Continued)

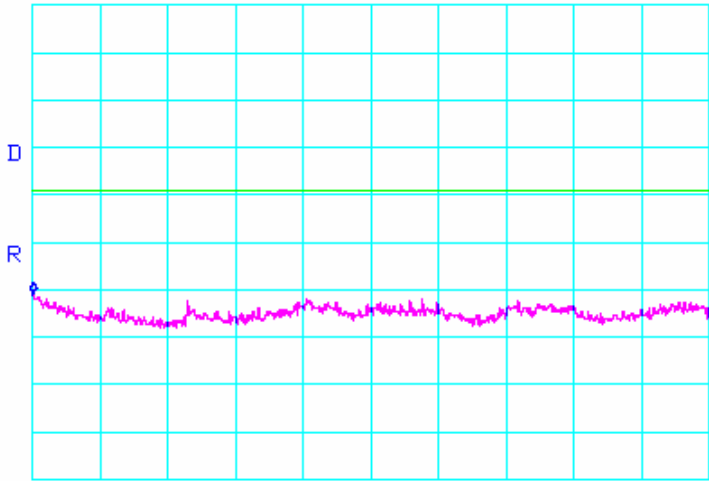
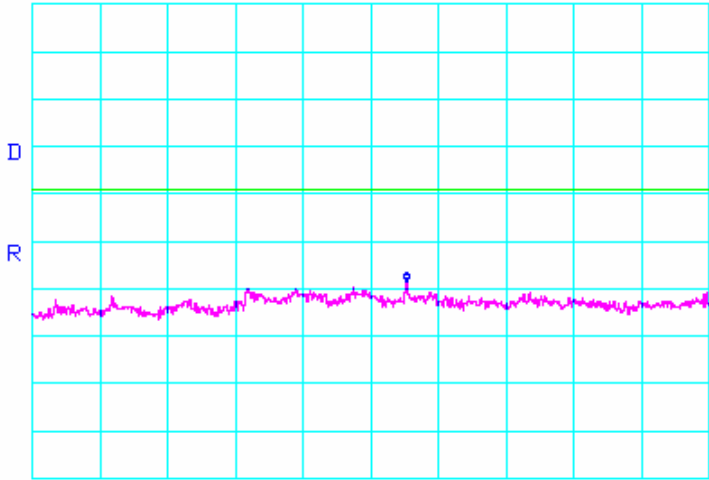
802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.18 GHz	A	JC
*ATTEN 10dB MKR -54.00dBm RL 12.0dBm 10dB/ 833.5MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
05/30/08	5.18 GHz	A	JC
*ATTEN 10dB MKR -28.00dBm RL 12.0dBm 10dB/ 5.150GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



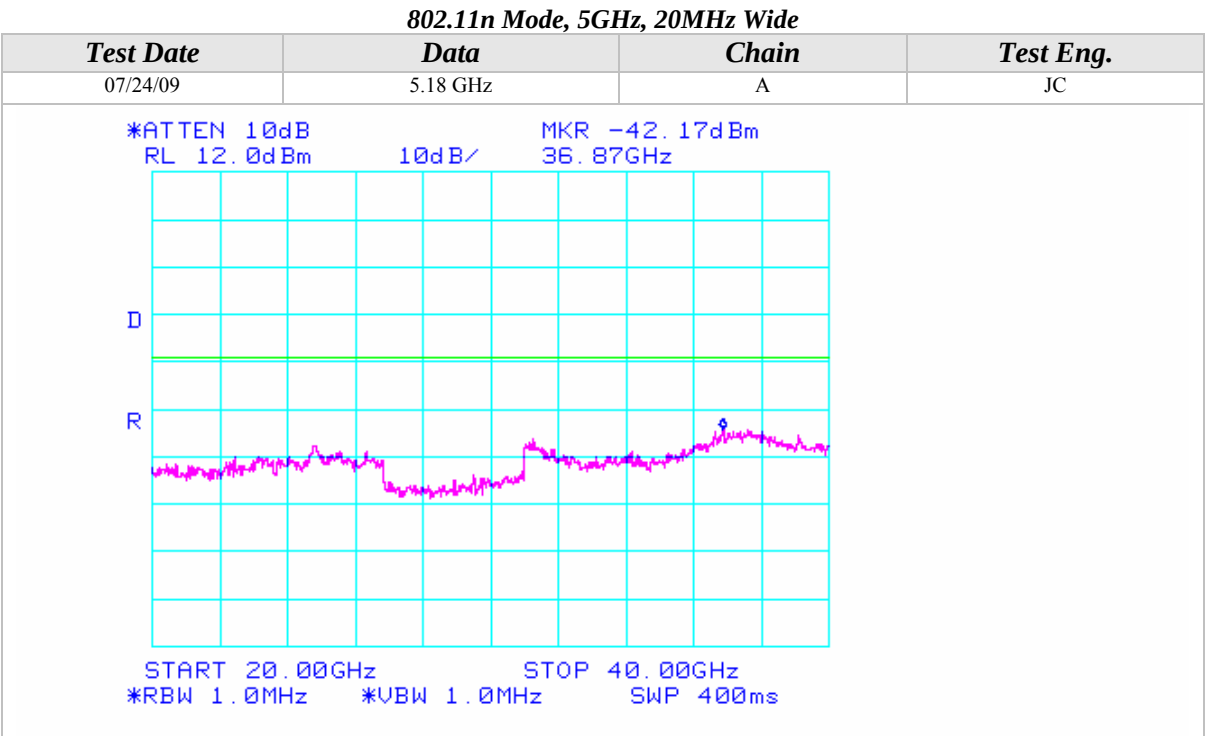
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.18 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -48.67dBm 5.358GHz  START 5.350GHz *RBW 1.0MHz STOP 10.000GHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
05/30/08	5.18 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -46.50dBm 15.53GHz  START 10.00GHz *RBW 1.0MHz STOP 20.00GHz *VBW 1.0MHz SWP 200ms			



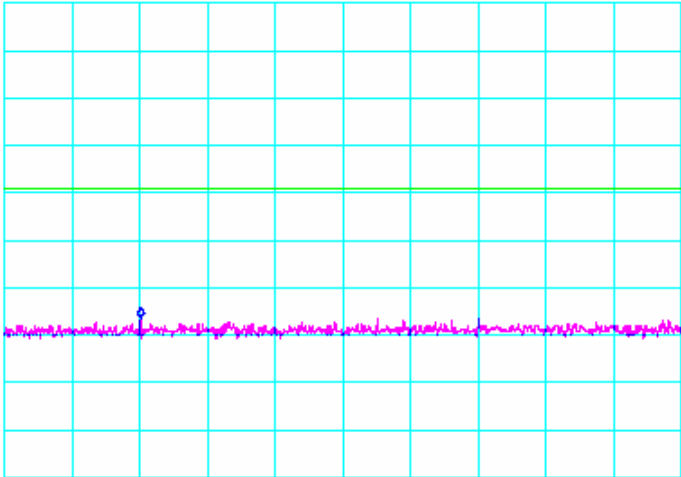
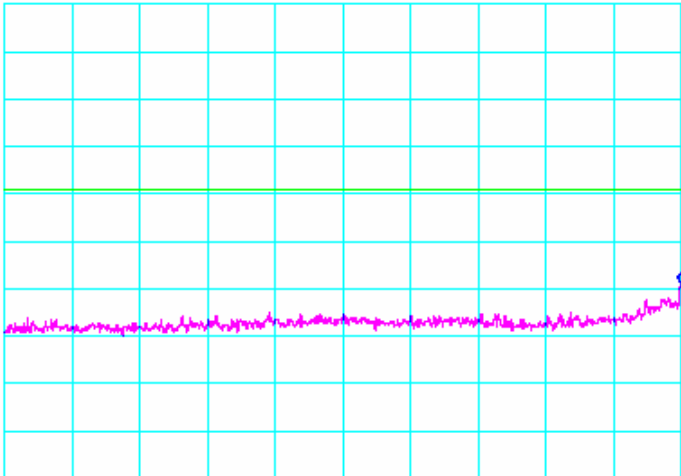
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

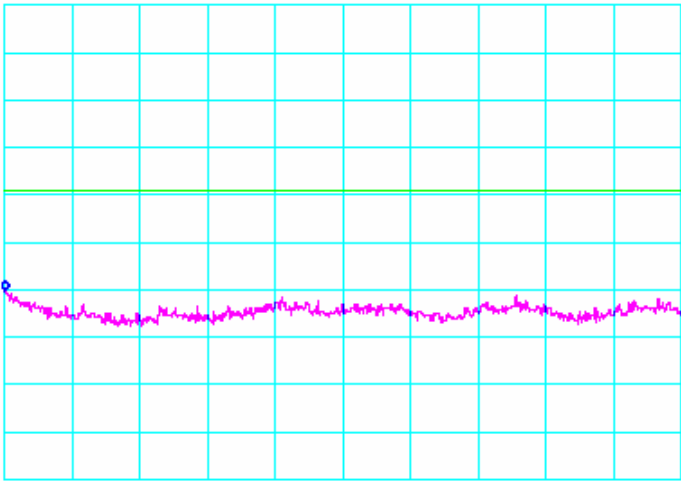
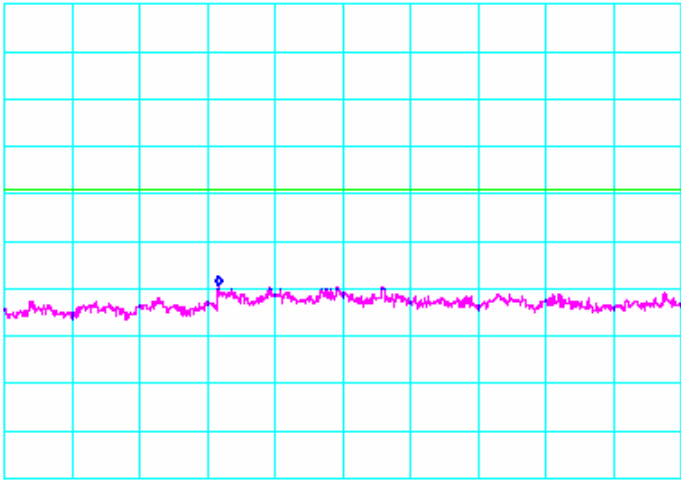
802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.20 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.33dBm 225.6MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.20 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -46.67dBm 5.150GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



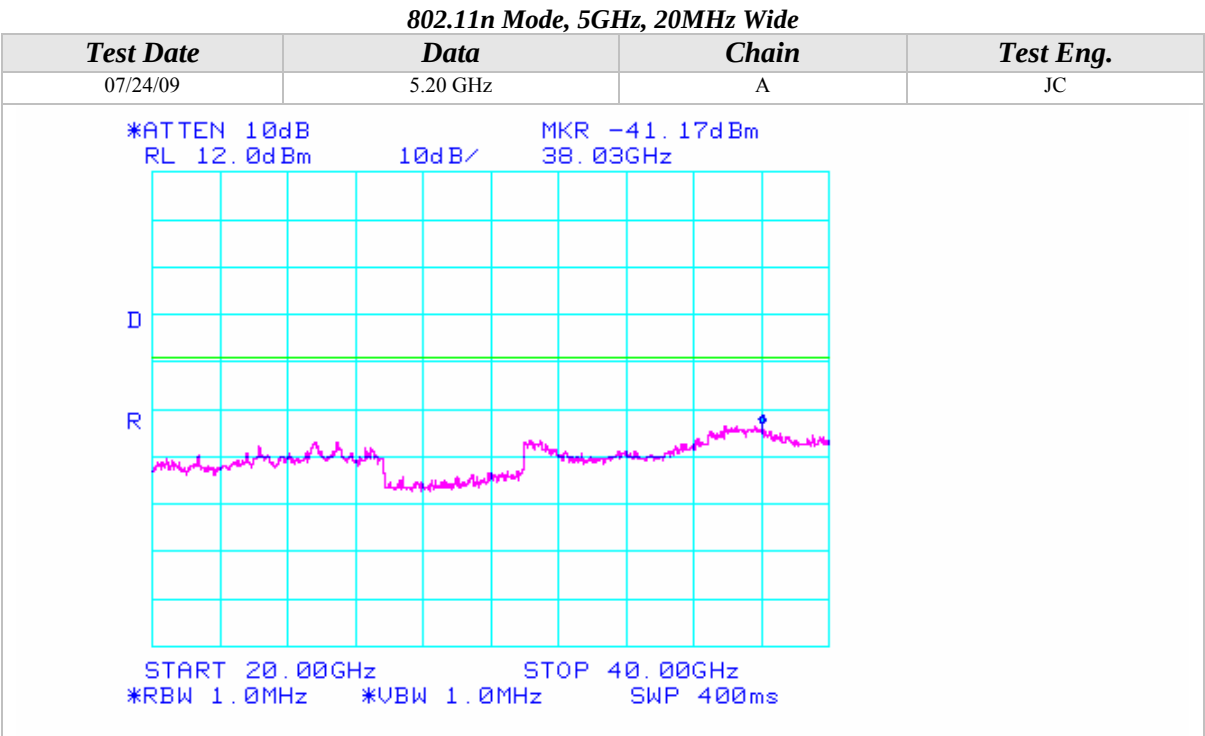
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.20 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -48.17dBm 5.358GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.20 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.33dBm 13.17GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



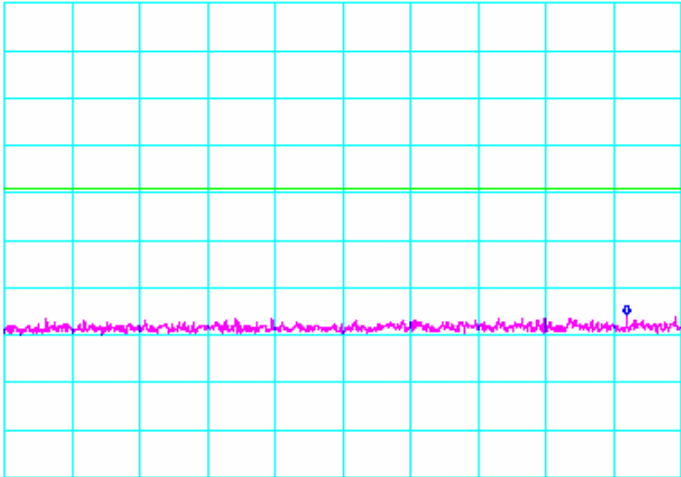
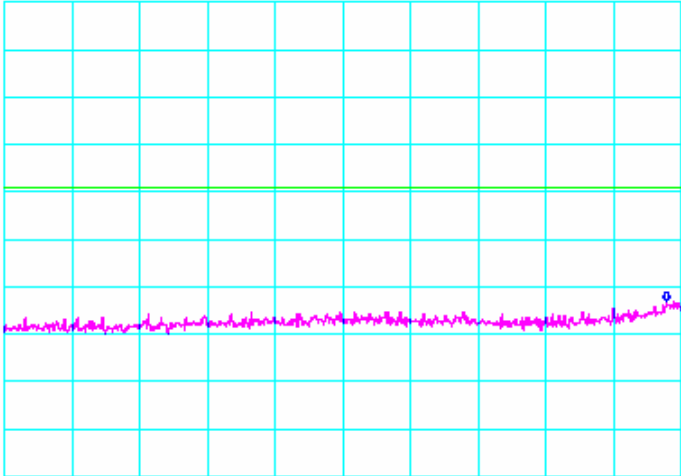
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

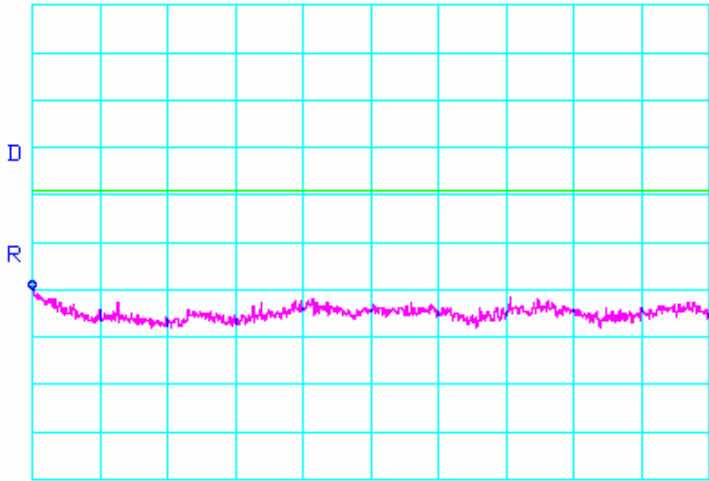
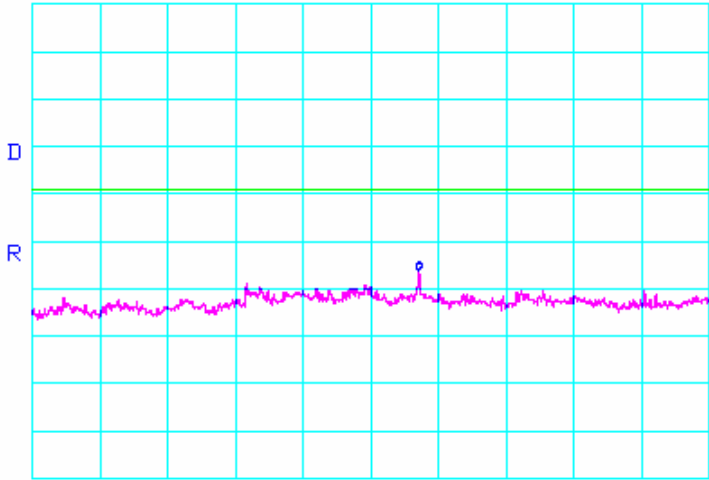
802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.24 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -53.83dBm 922.4MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.24 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -51.17dBm 5.060GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



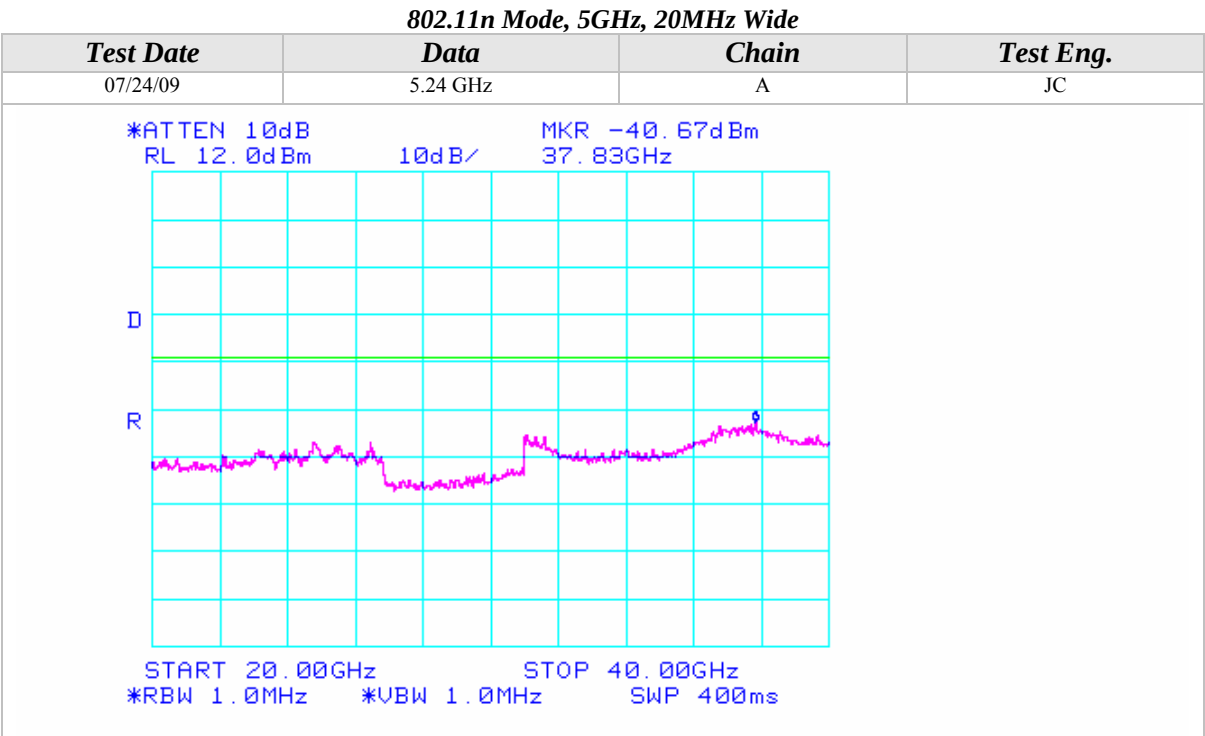
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.24 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -48.00dBm 5.350GHz  START 5.350GHz *RBW 1.0MHz STOP 10.000GHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.24 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -44.17dBm 15.72GHz  START 10.00GHz *RBW 1.0MHz STOP 20.00GHz *VBW 1.0MHz SWP 200ms			



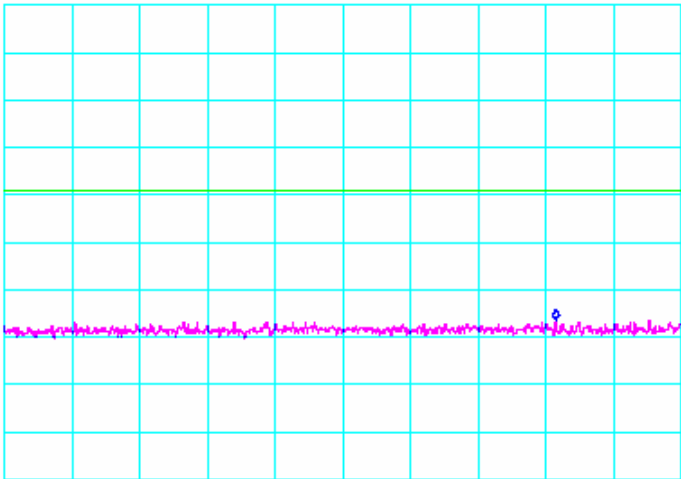
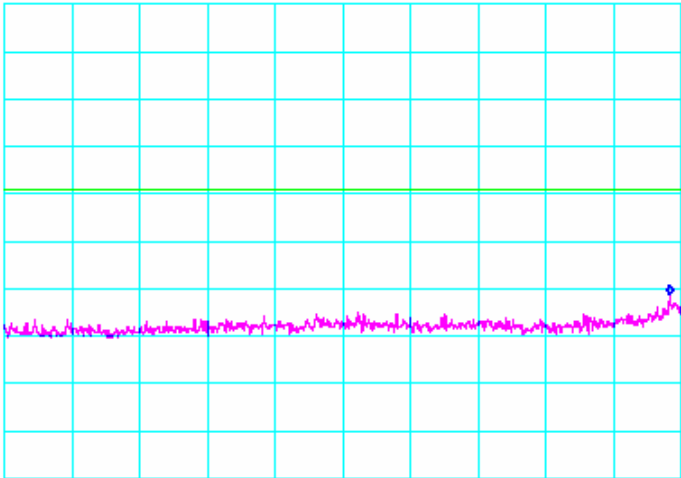
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

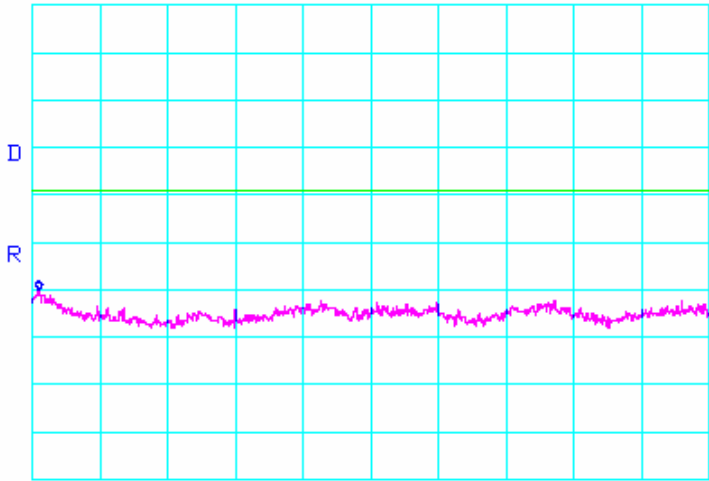
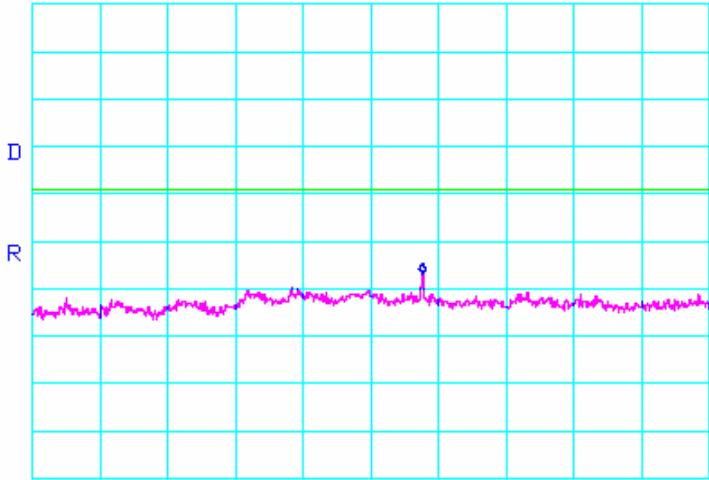
802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.33dBm 820.6MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.33dBm 5.081GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



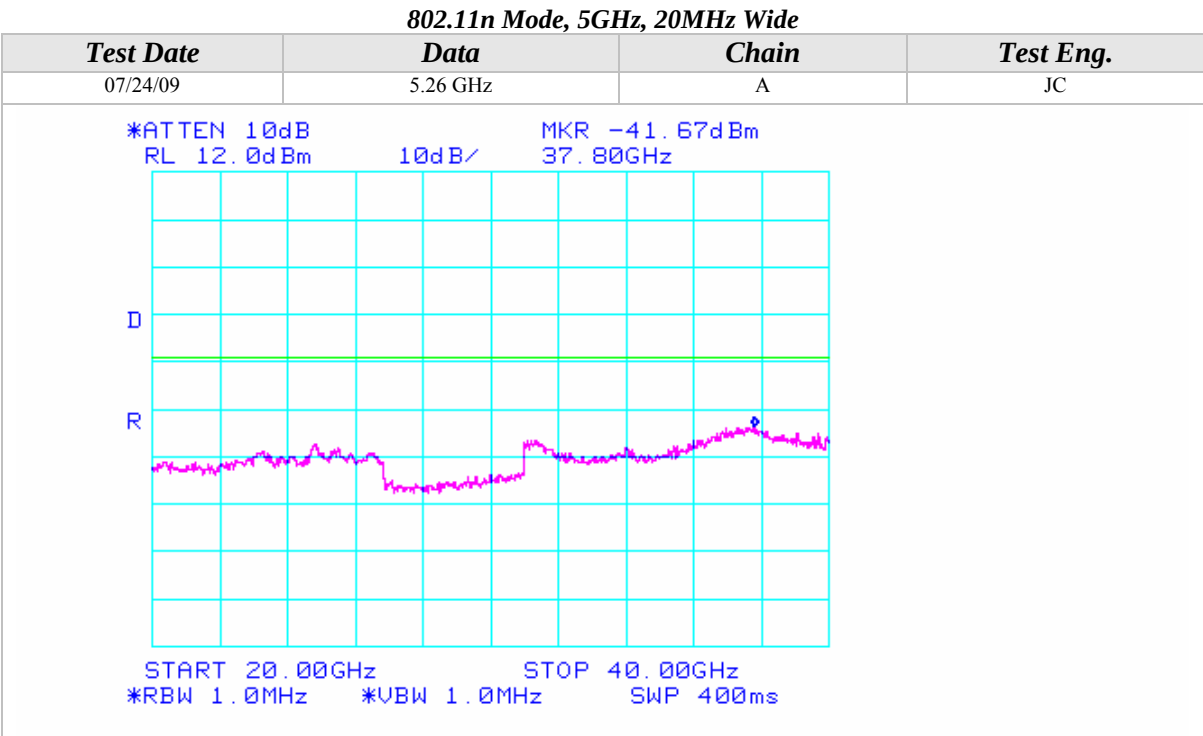
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -48.00dBm 5.397GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -44.83dBm 15.77GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



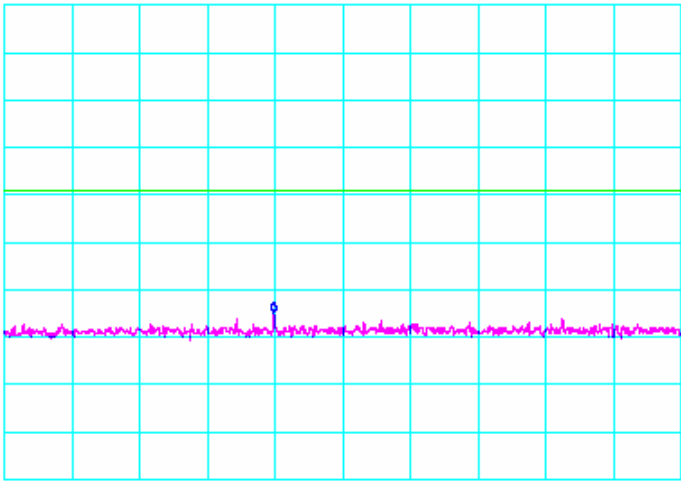
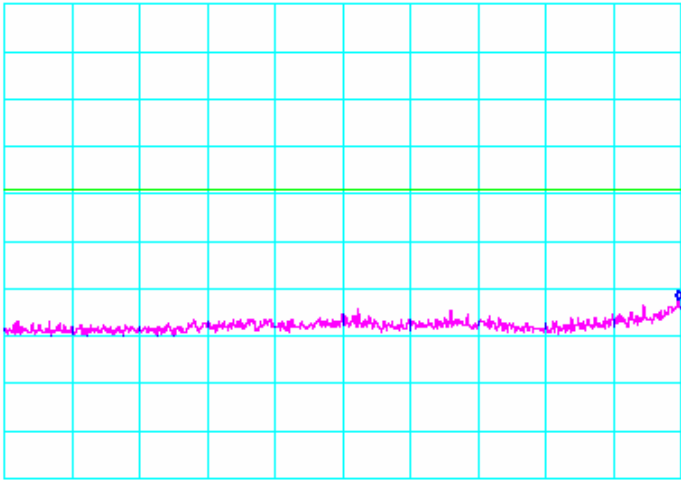
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

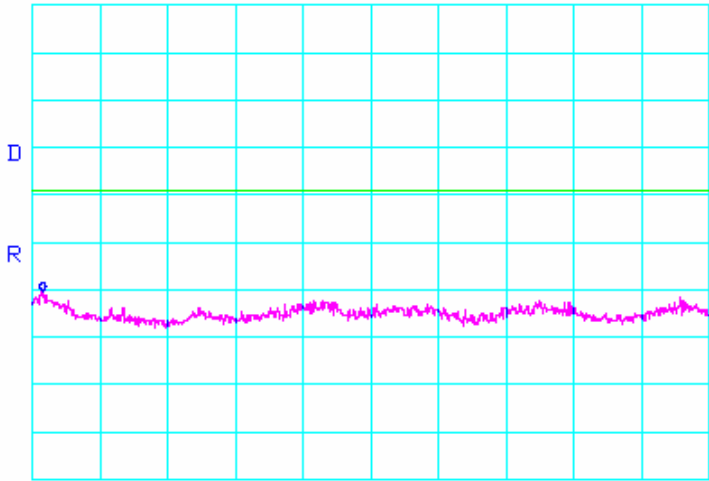
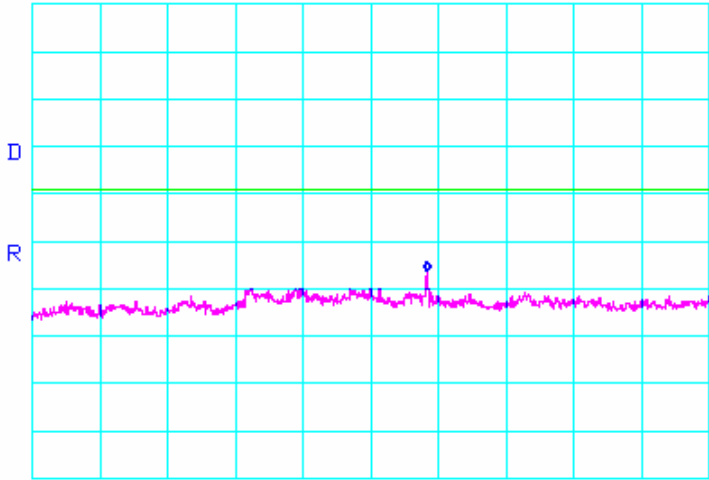
802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.28 GHz	A	JC
*ATTEN 10dB MKR -52.83dBm RL 12.0dBm 10dB/ 416.4MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.28 GHz	A	JC
*ATTEN 10dB MKR -50.33dBm RL 12.0dBm 10dB/ 5.136GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



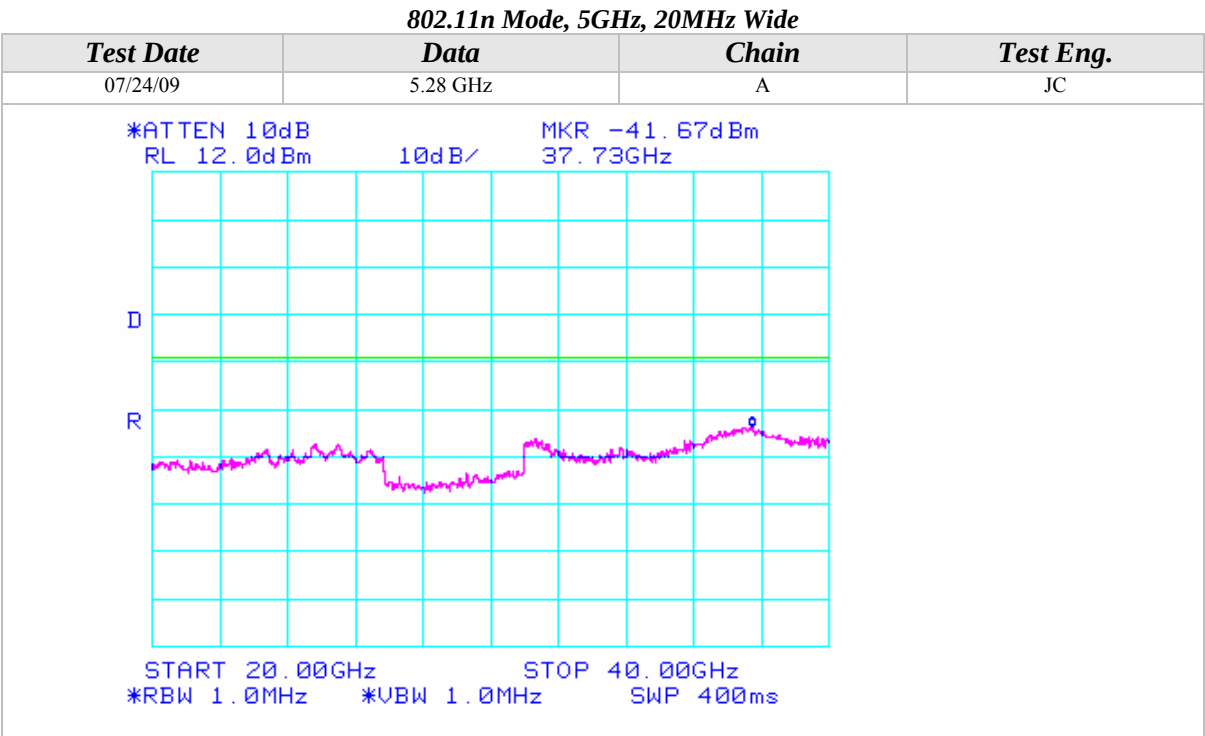
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.28 GHz	A	JC
*ATTEN 10dB MKR -48.33dBm RL 12.0dBm 10dB/ 5.420GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.28 GHz	A	JC
*ATTEN 10dB MKR -44.33dBm RL 12.0dBm 10dB/ 15.83GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



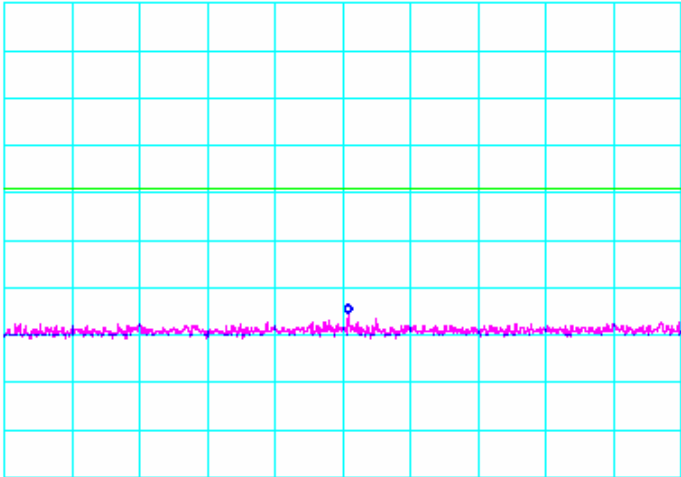
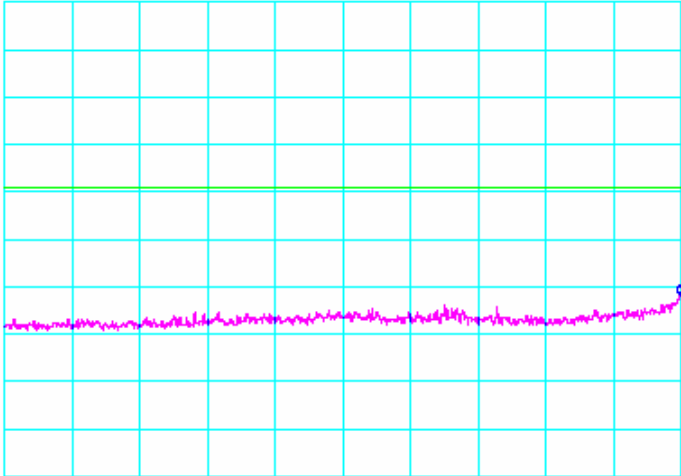
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

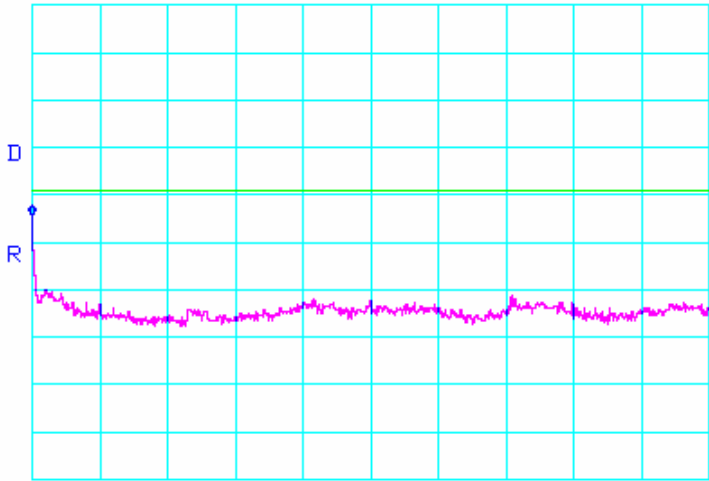
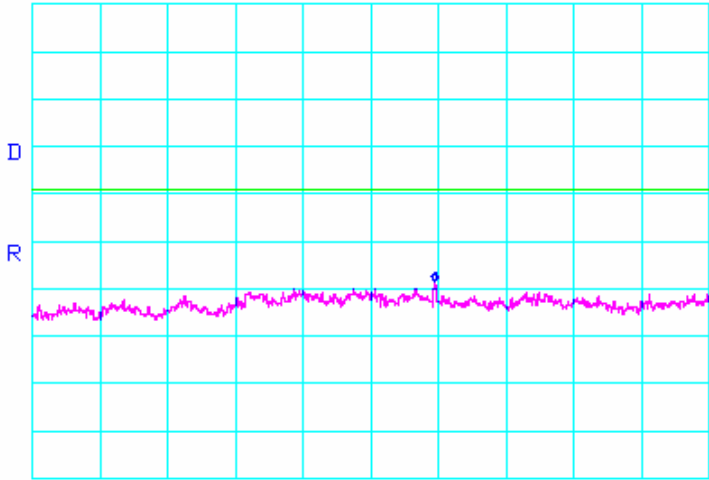
802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.32 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -53.50dBm 523.1MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.32 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.67dBm 5.143GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



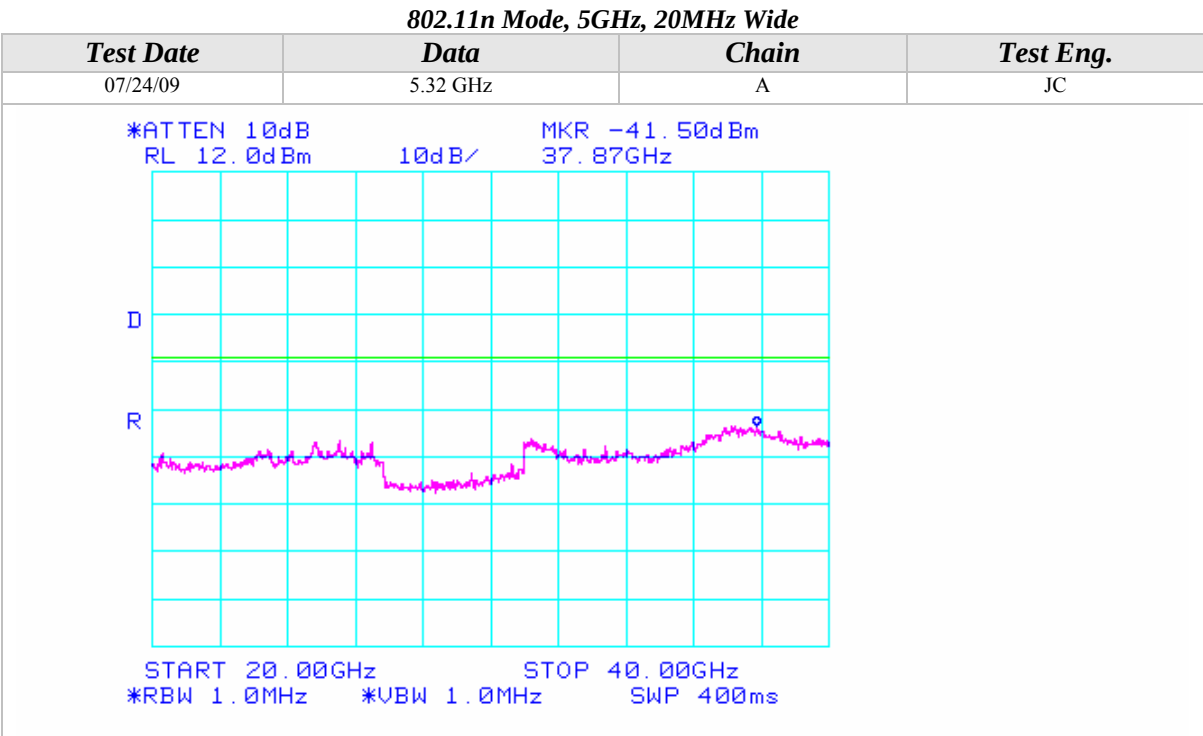
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.32 GHz	A	JC
*ATTEN 10dB MKR -32.17dBm RL 12.0dBm 10dB/ 5.350GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.32 GHz	A	JC
*ATTEN 10dB MKR -46.50dBm RL 12.0dBm 10dB/ 15.95GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



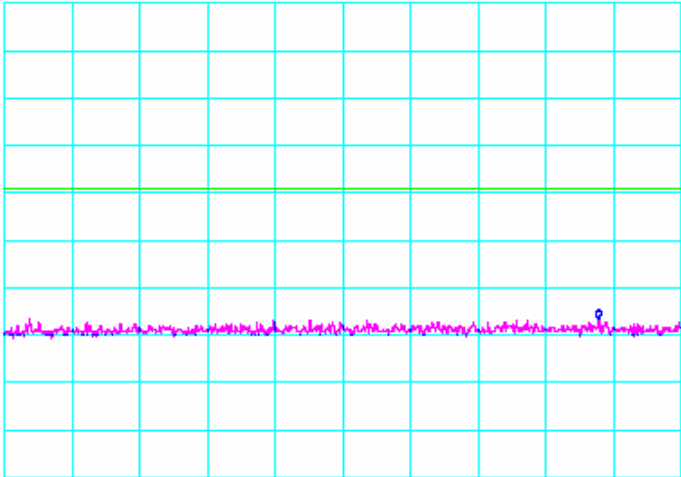
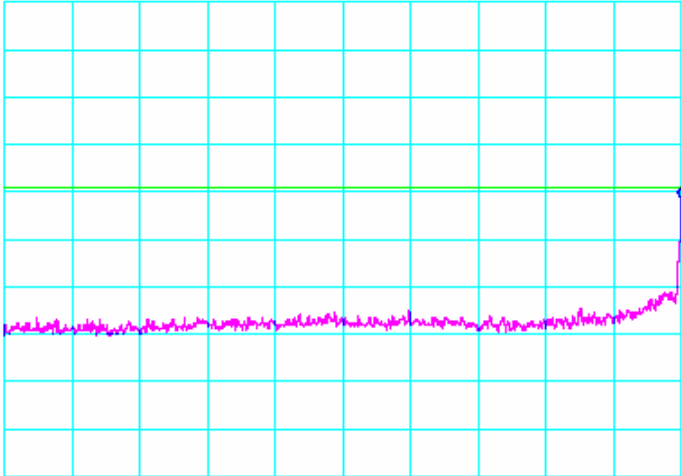
Conducted Out Of Band Emissions (Continued)





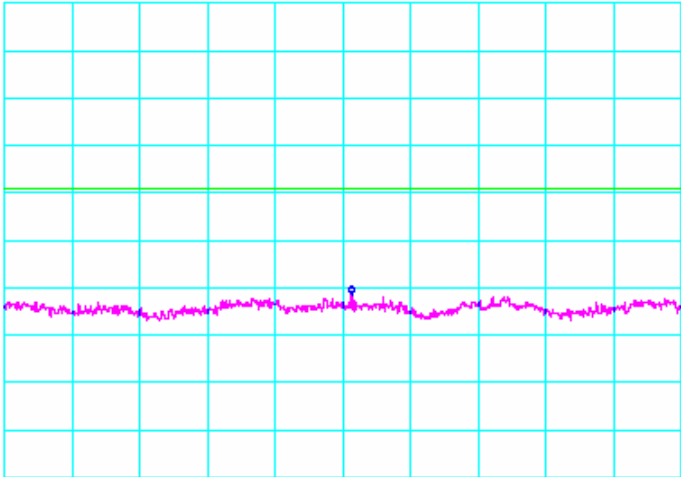
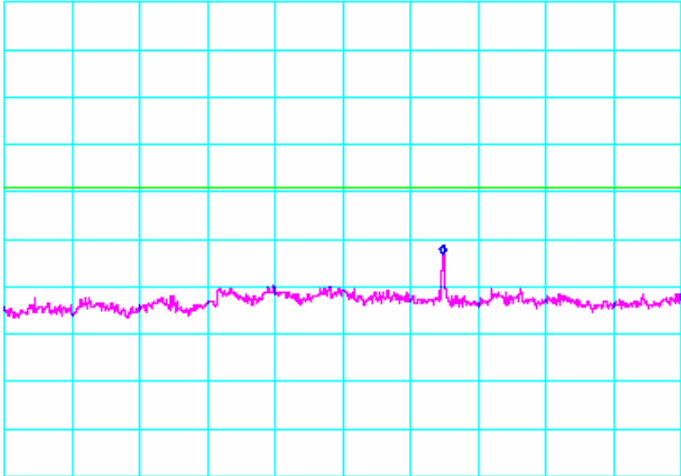
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.50 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.50dBm 882.0MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.50 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -29.17dBm 5.460GHz  START 1.000GHz STOP 5.460GHz *RBW 1.0MHz *VBW 1.0MHz SWP 90.0ms			

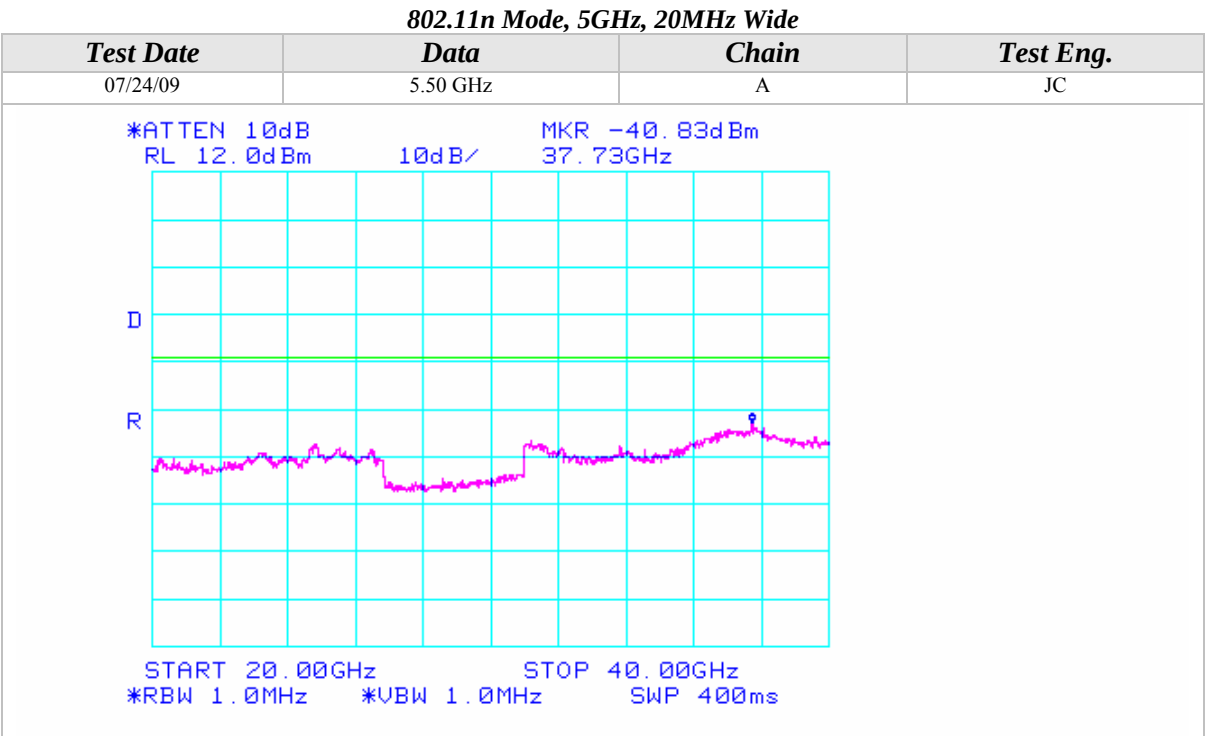


Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide			
Test Date	Data	Chain	Test Eng.
07/24/09	5.50 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.50dBm 7.920GHz  START 5.725GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.50 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -41.17dBm 16.48GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			

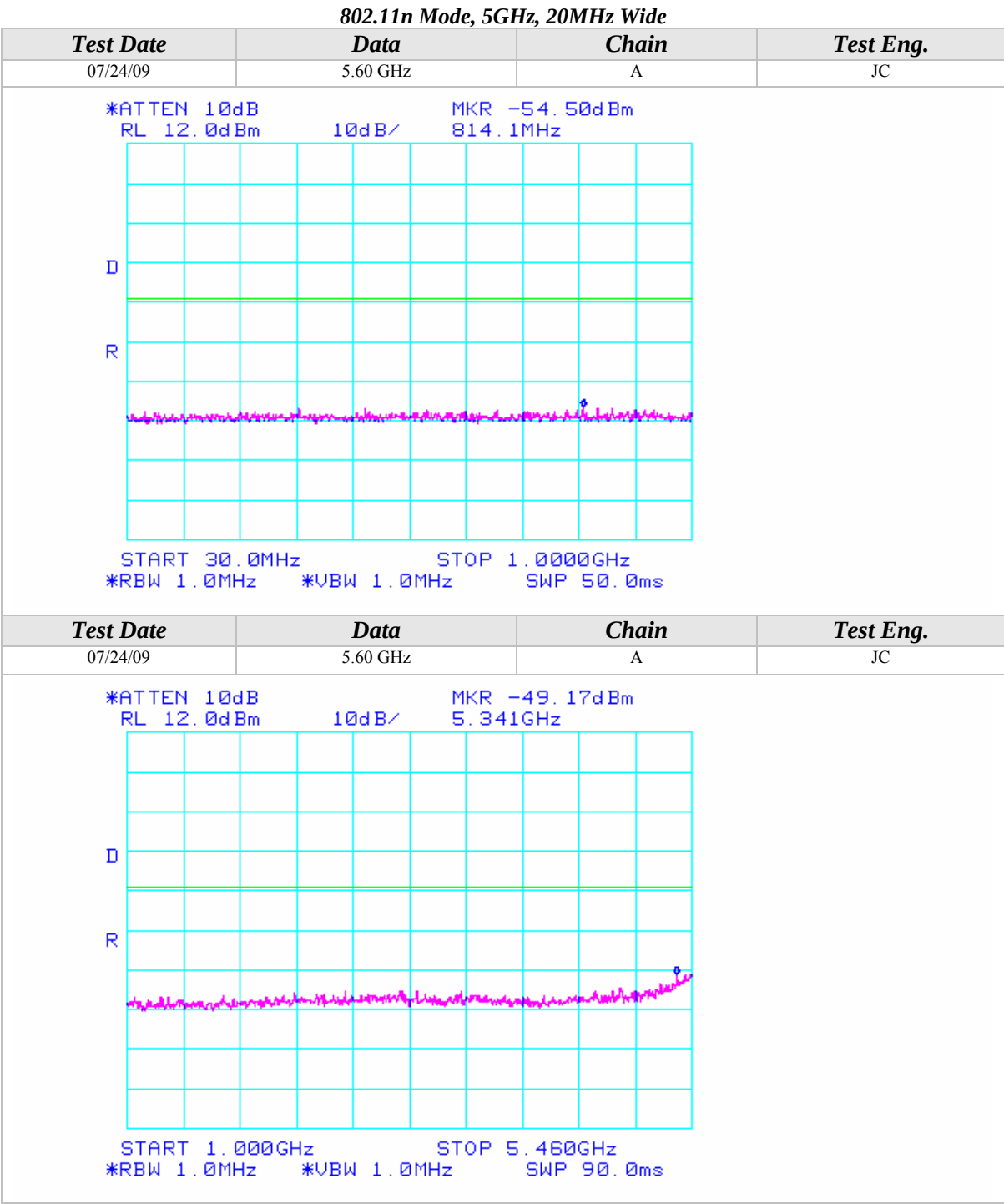


Conducted Out Of Band Emissions (Continued)





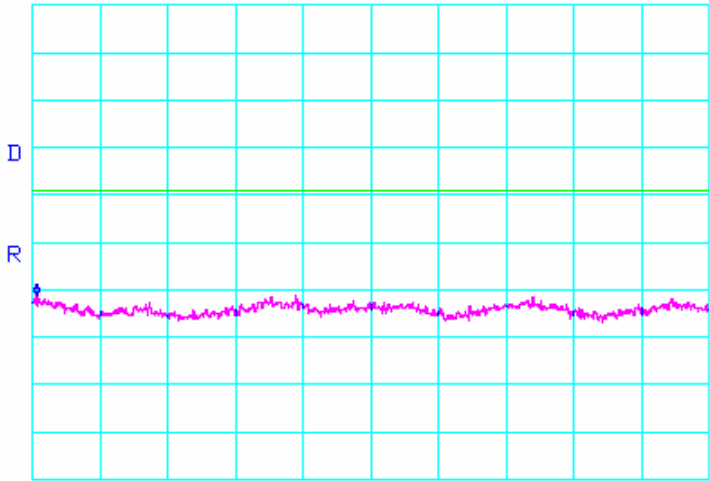
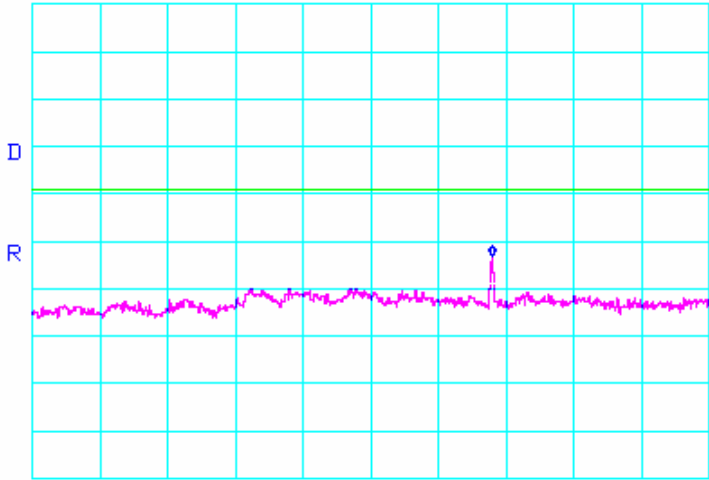
Conducted Out Of Band Emissions (Continued)





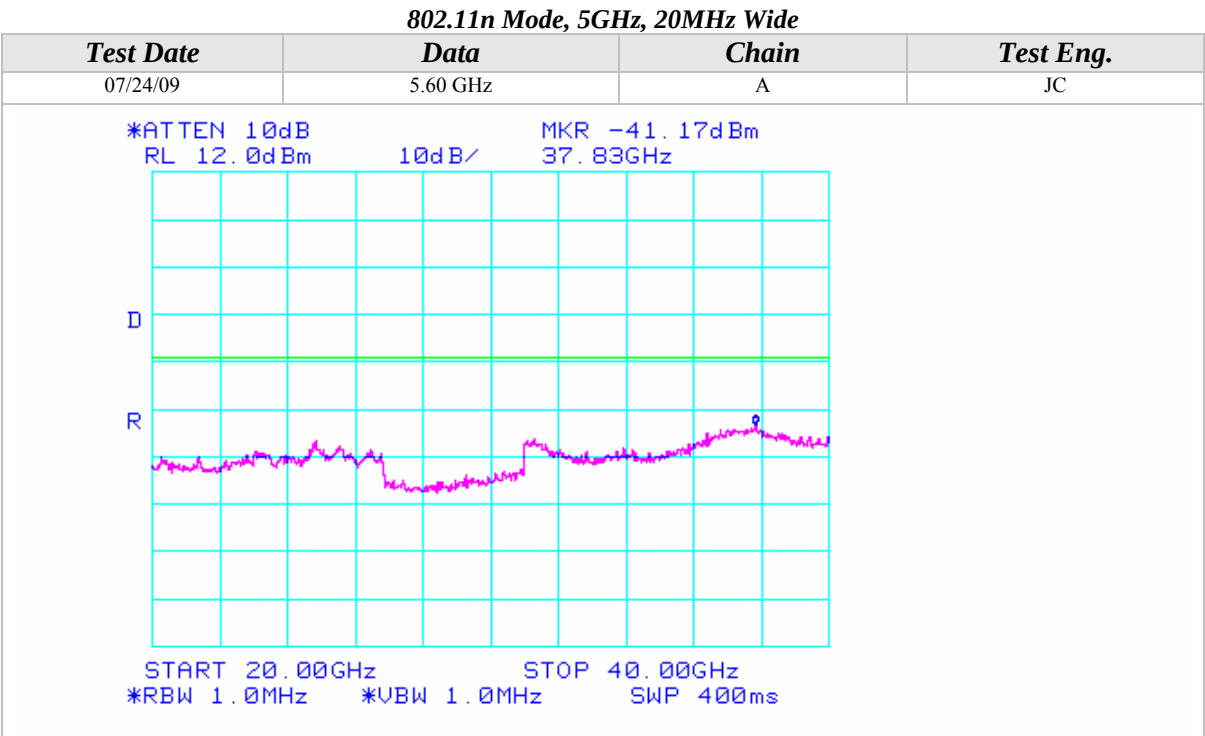
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.60 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.00dBm 5.754GHz  START 5.725GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.60 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -41.00dBm 16.80GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



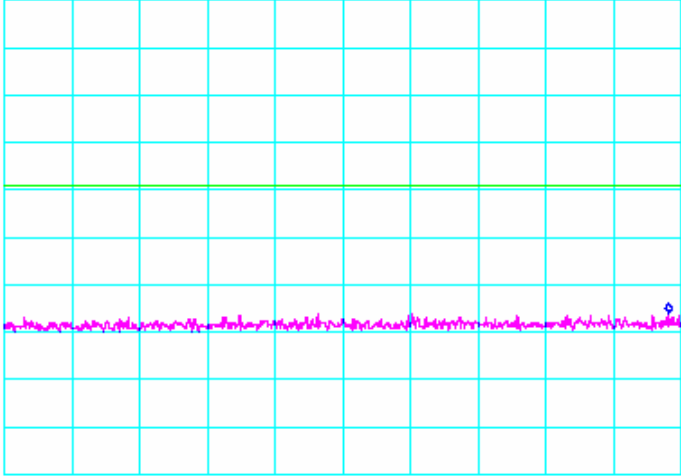
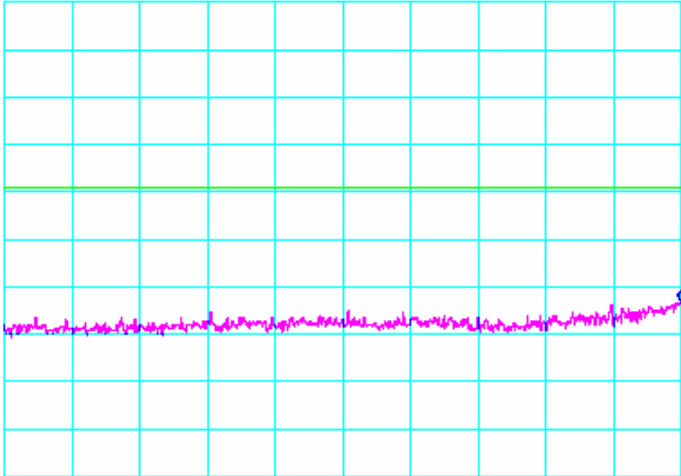
Conducted Out Of Band Emissions (Continued)





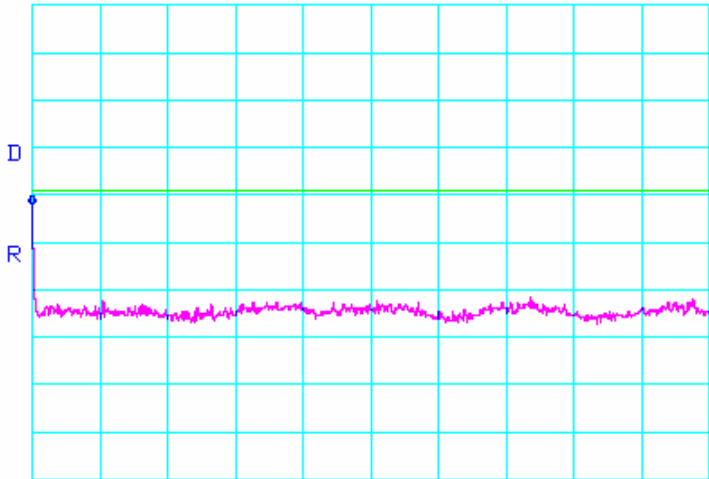
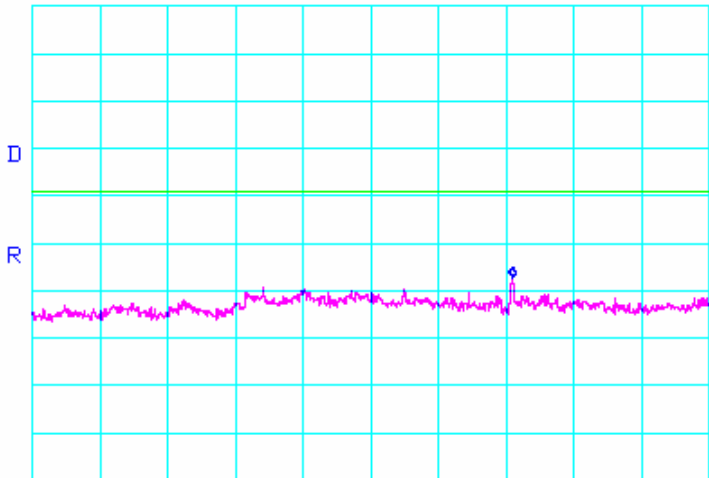
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.70 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.00dBm 982.2MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.70 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -50.83dBm 5.460GHz  START 1.000GHz STOP 5.460GHz *RBW 1.0MHz *VBW 1.0MHz SWP 90.0ms			



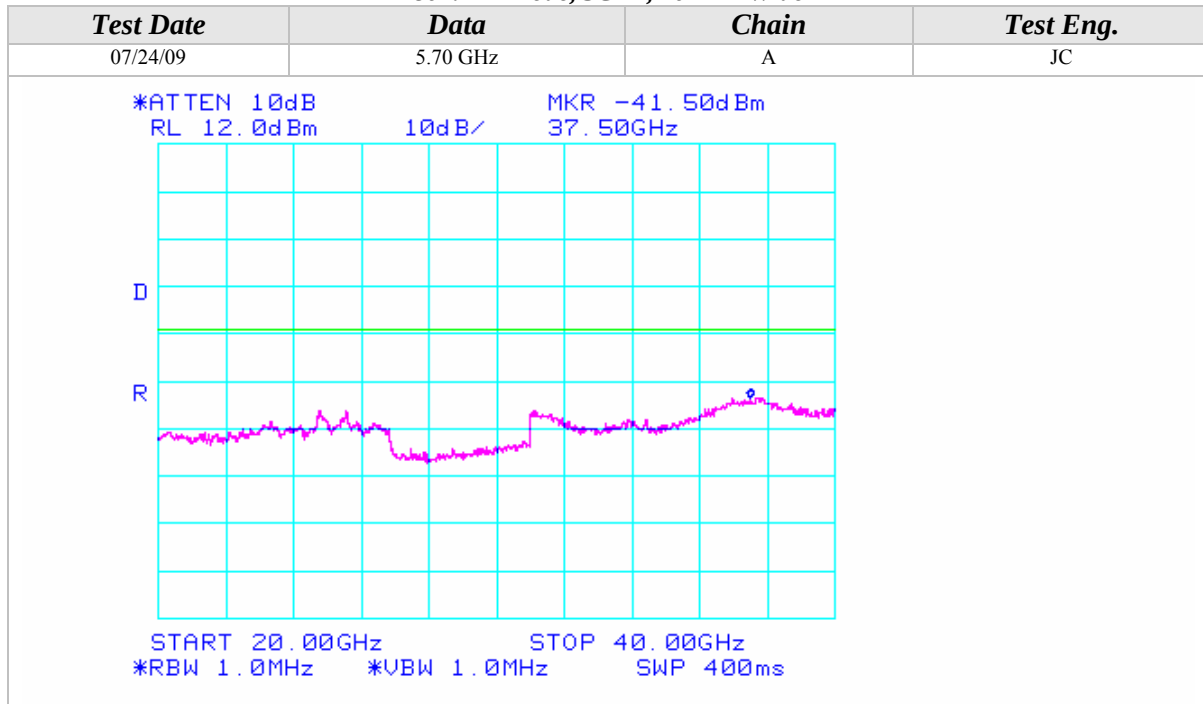
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide			
Test Date	Data	Chain	Test Eng.
07/24/09	5.70 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -30.17dBm 5.725GHz  START 5.725GHz *RBW 1.0MHz STOP 10.000GHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.70 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -45.17dBm 17.10GHz  START 10.00GHz *RBW 1.0MHz STOP 20.00GHz *VBW 1.0MHz SWP 200ms			



Conducted Out Of Band Emissions (Continued)

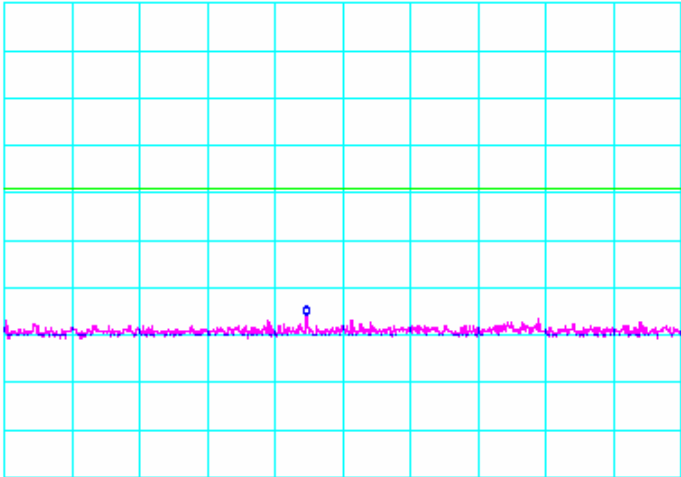
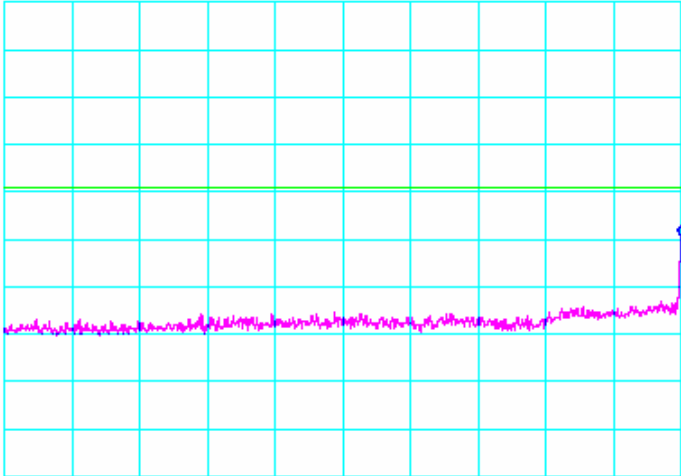
802.11n Mode, 5GHz, 20MHz Wide





Conducted Out Of Band Emissions (Continued)

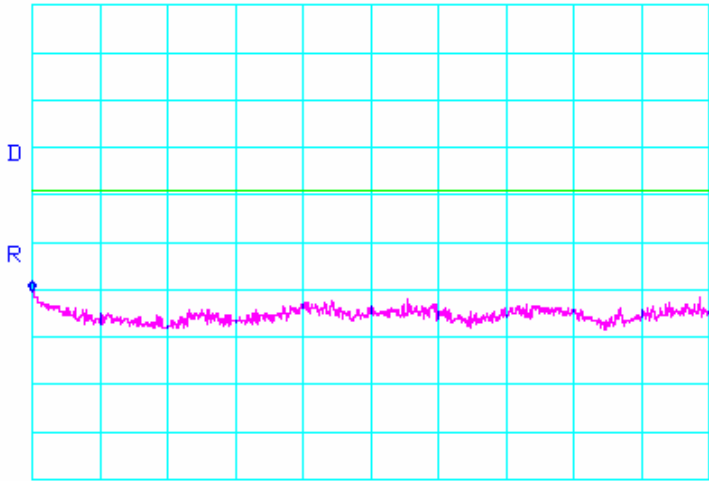
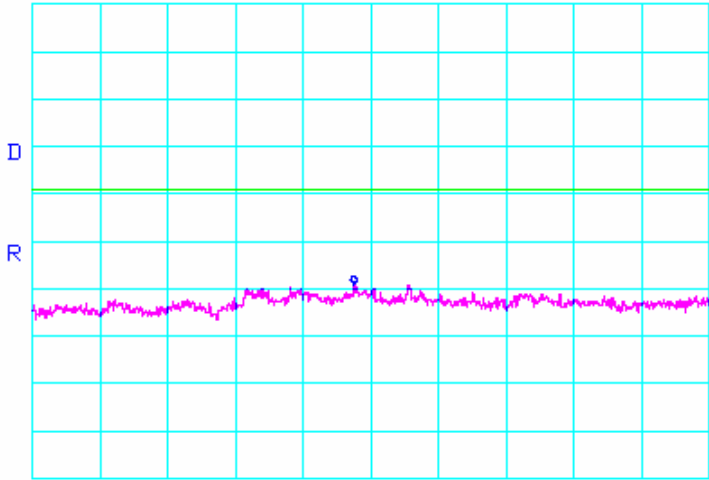
802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.19 GHz	A	JC
*ATTEN 10dB MKR -53.83dBm RL 12.0dBm 10dB/ 463.3MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.19 GHz	A	JC
*ATTEN 10dB MKR -37.17dBm RL 12.0dBm 10dB/ 5.150GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



Conducted Out Of Band Emissions (Continued)

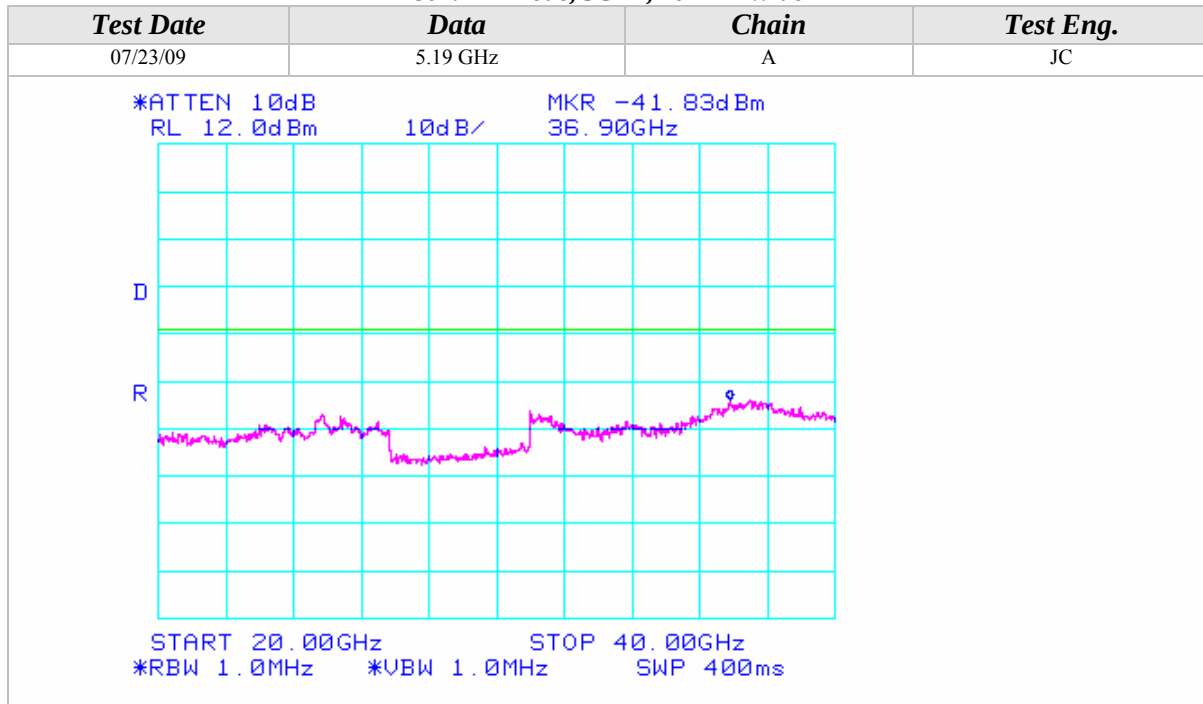
802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.19 GHz	A	JC
*ATTEN 10dB MKR -48.17dBm RL 12.0dBm 10dB/ 5.350GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.19 GHz	A	JC
*ATTEN 10dB MKR -47.17dBm RL 12.0dBm 10dB/ 14.75GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



Conducted Out Of Band Emissions (Continued)

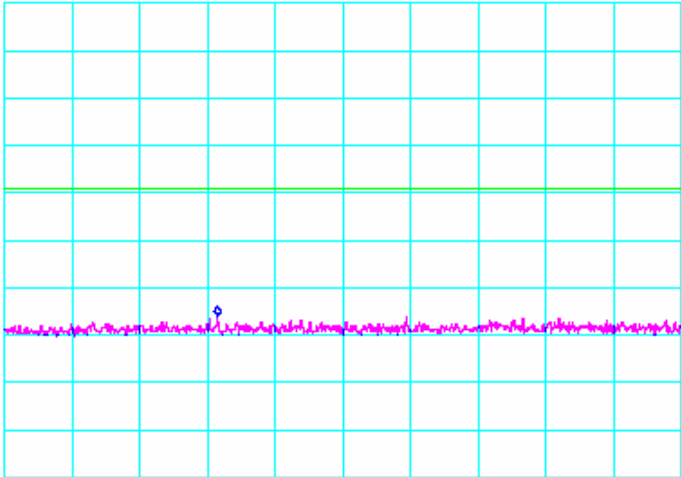
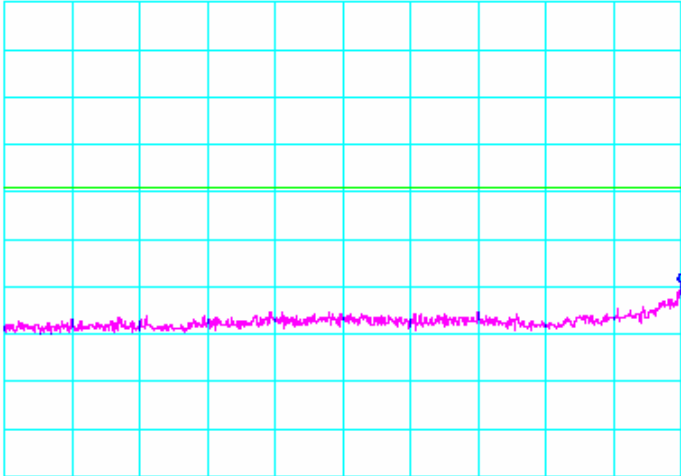
802.11n Mode, 5GHz, 40MHz Wide





Conducted Out Of Band Emissions (Continued)

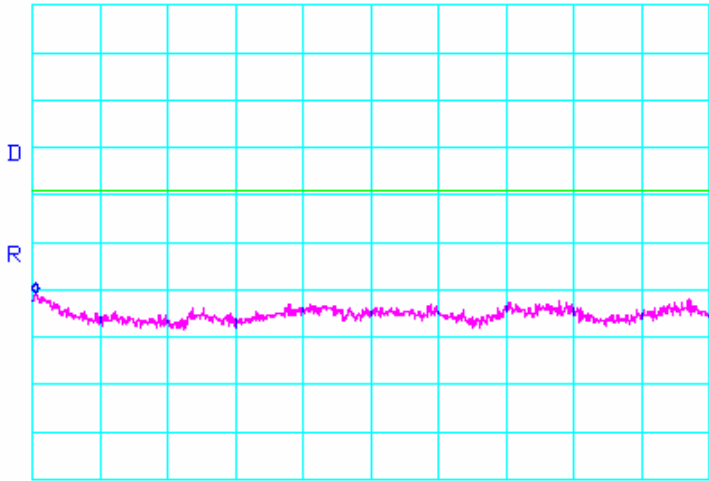
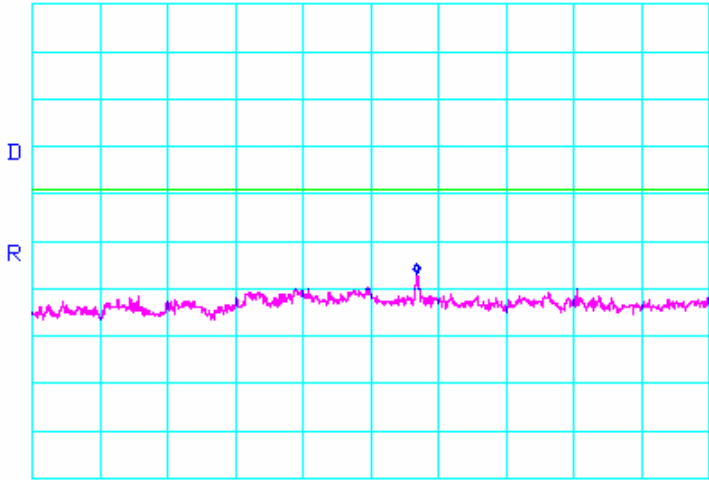
802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.23 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.00dBm 335.6MHz  START 30.0MHz *RBW 1.0MHz STOP 1.0000GHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.23 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.33dBm 5.150GHz  START 1.000GHz *RBW 1.0MHz STOP 5.150GHz *VBW 1.0MHz SWP 83.0ms			



Conducted Out Of Band Emissions (Continued)

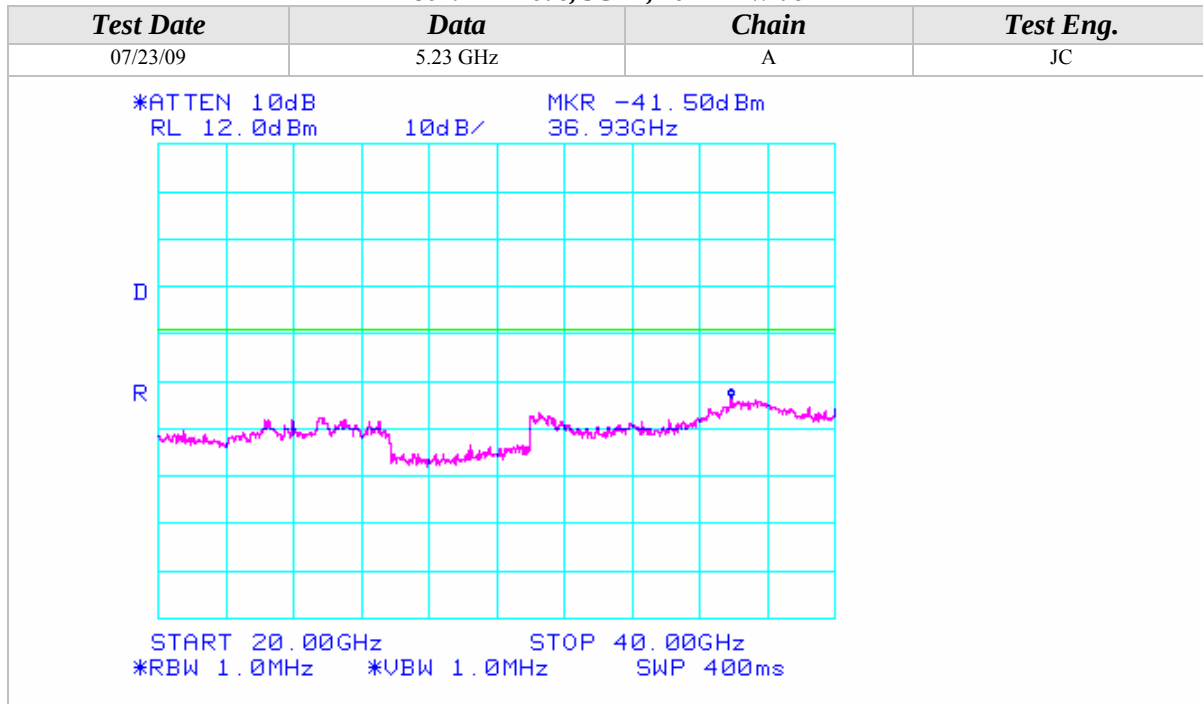
802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.23 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -48.67dBm 5.373GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.23 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -44.83dBm 15.68GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



Conducted Out Of Band Emissions (Continued)

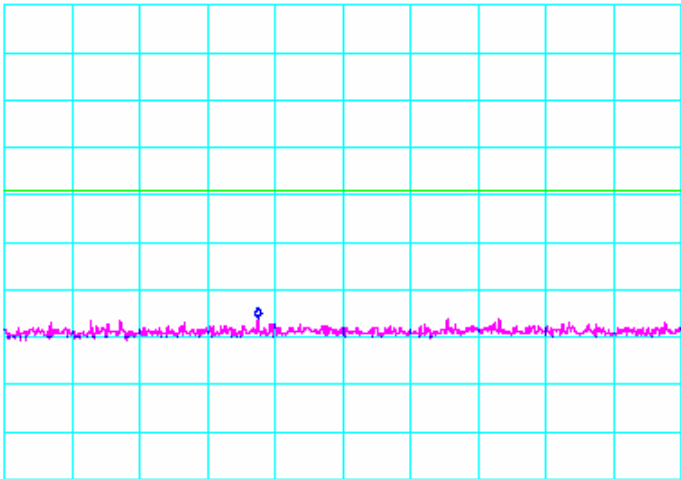
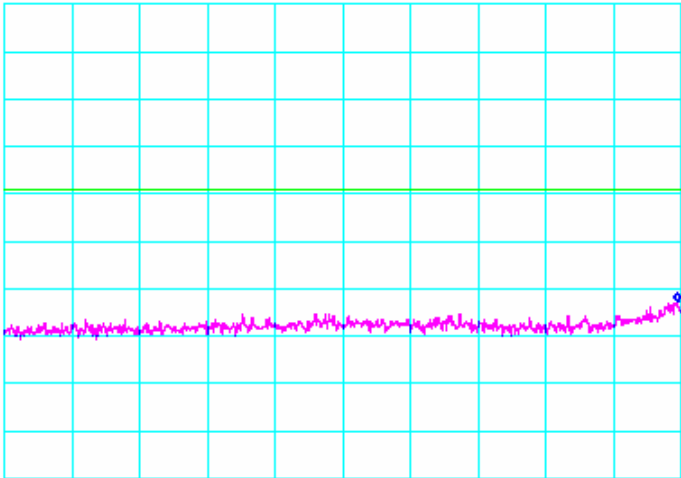
802.11n Mode, 5GHz, 40MHz Wide





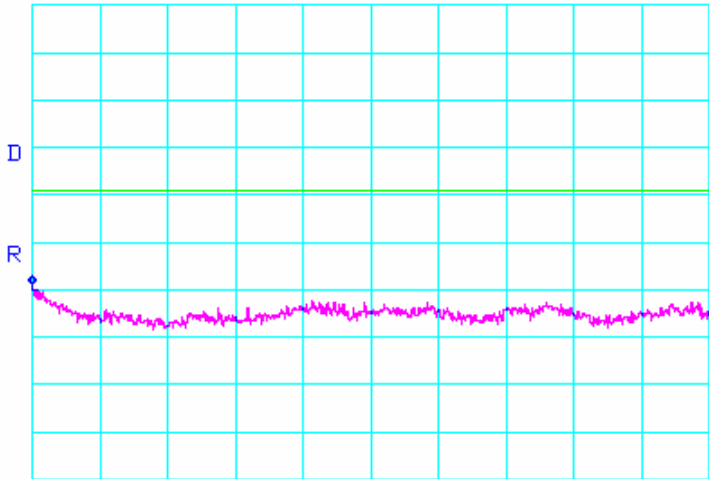
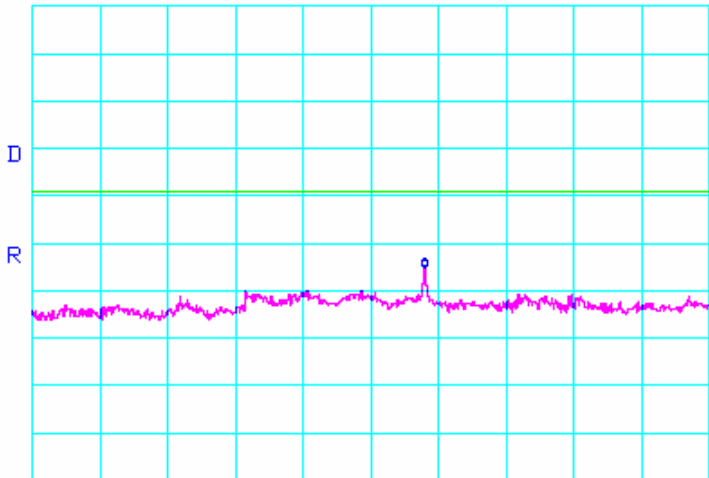
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.27 GHz	A	JC
*ATTEN 10dB MKR -54.00dBm RL 12.0dBm 10dB/ 393.8MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.27 GHz	A	JC
*ATTEN 10dB MKR -50.83dBm RL 12.0dBm 10dB/ 5.129GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			

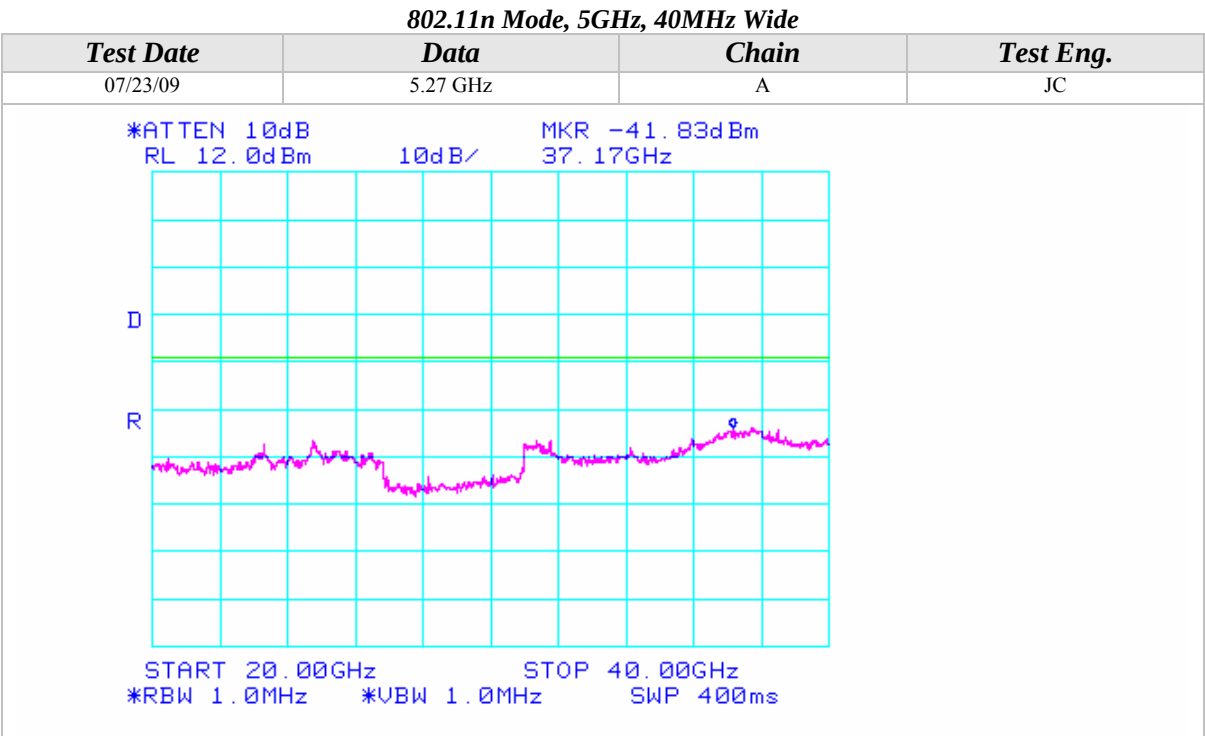


Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide			
Test Date	Data	Chain	Test Eng.
07/23/09	5.27 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.00dBm 5.350GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.27 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -43.17dBm 15.80GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



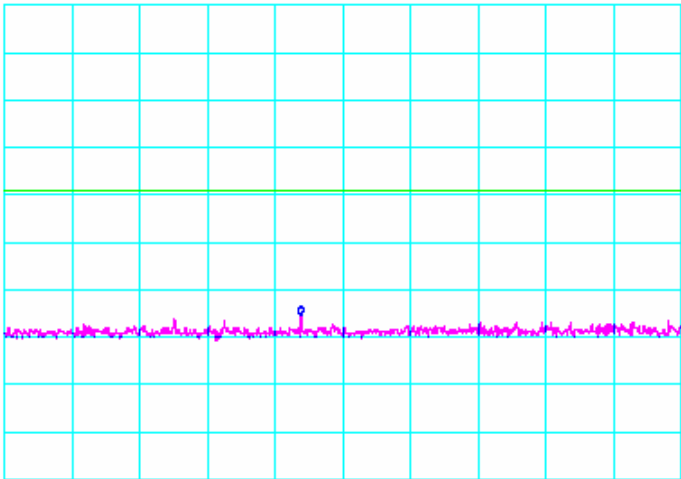
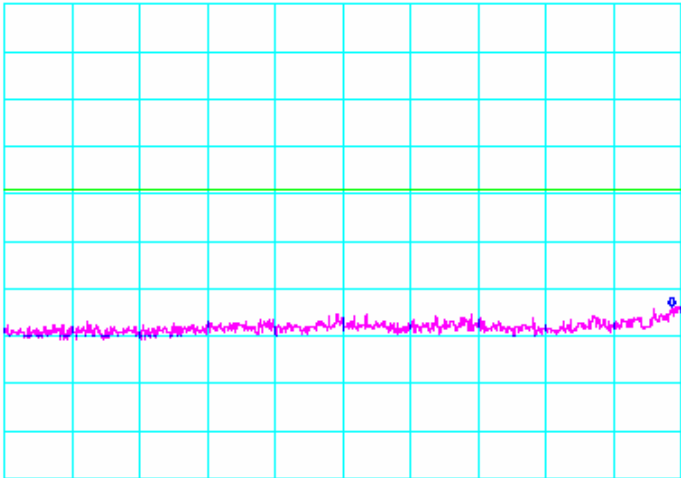
Conducted Out Of Band Emissions (Continued)





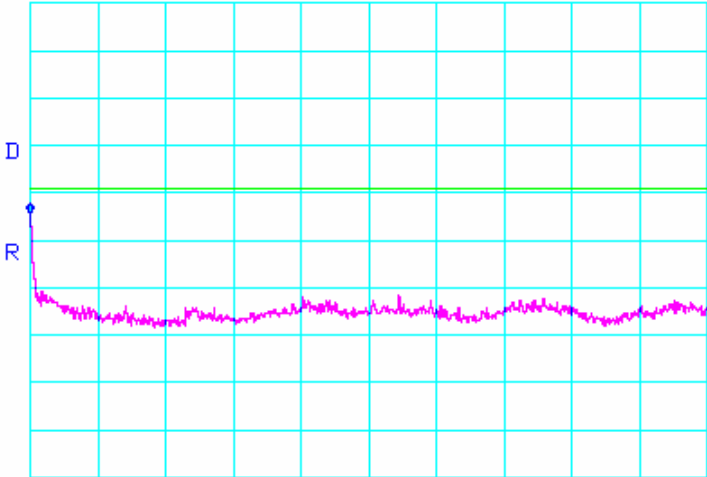
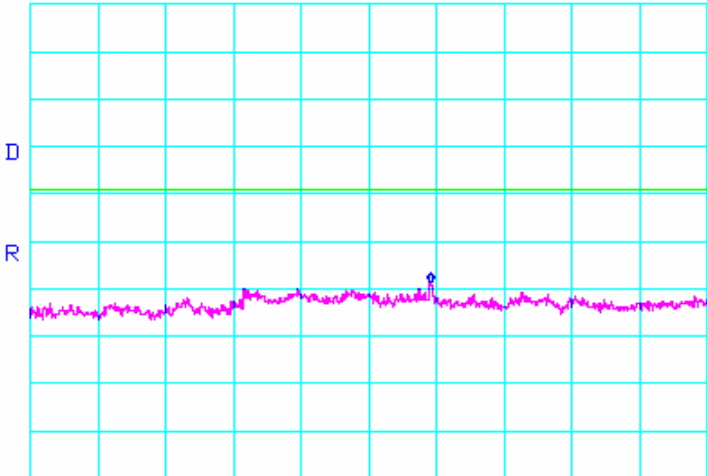
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.31 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -53.33dBm 455.2MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.31 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -51.83dBm 5.095GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			

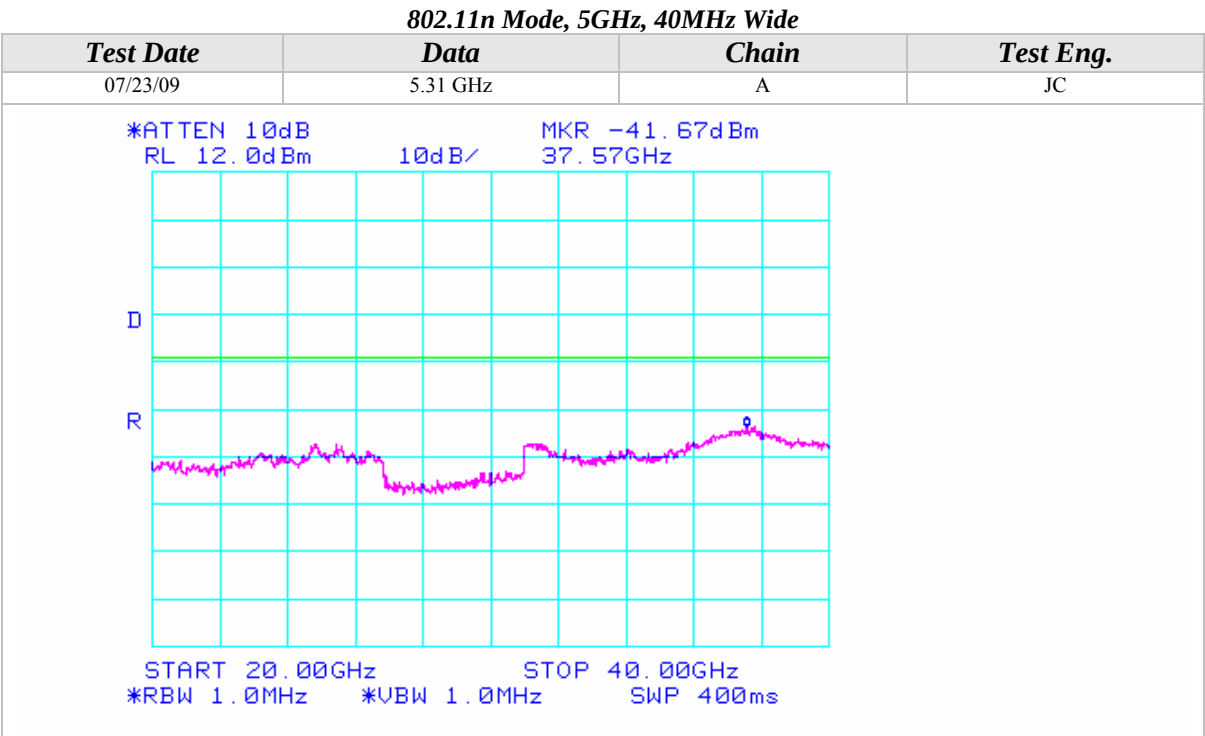


Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide			
Test Date	Data	Chain	Test Eng.
07/23/09	5.31 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -32.17dBm 5.350GHz  START 5.350GHz *RBW 1.0MHz STOP 10.000GHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.31 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -46.67dBm 15.92GHz  START 10.00GHz *RBW 1.0MHz STOP 20.00GHz *VBW 1.0MHz SWP 200ms			

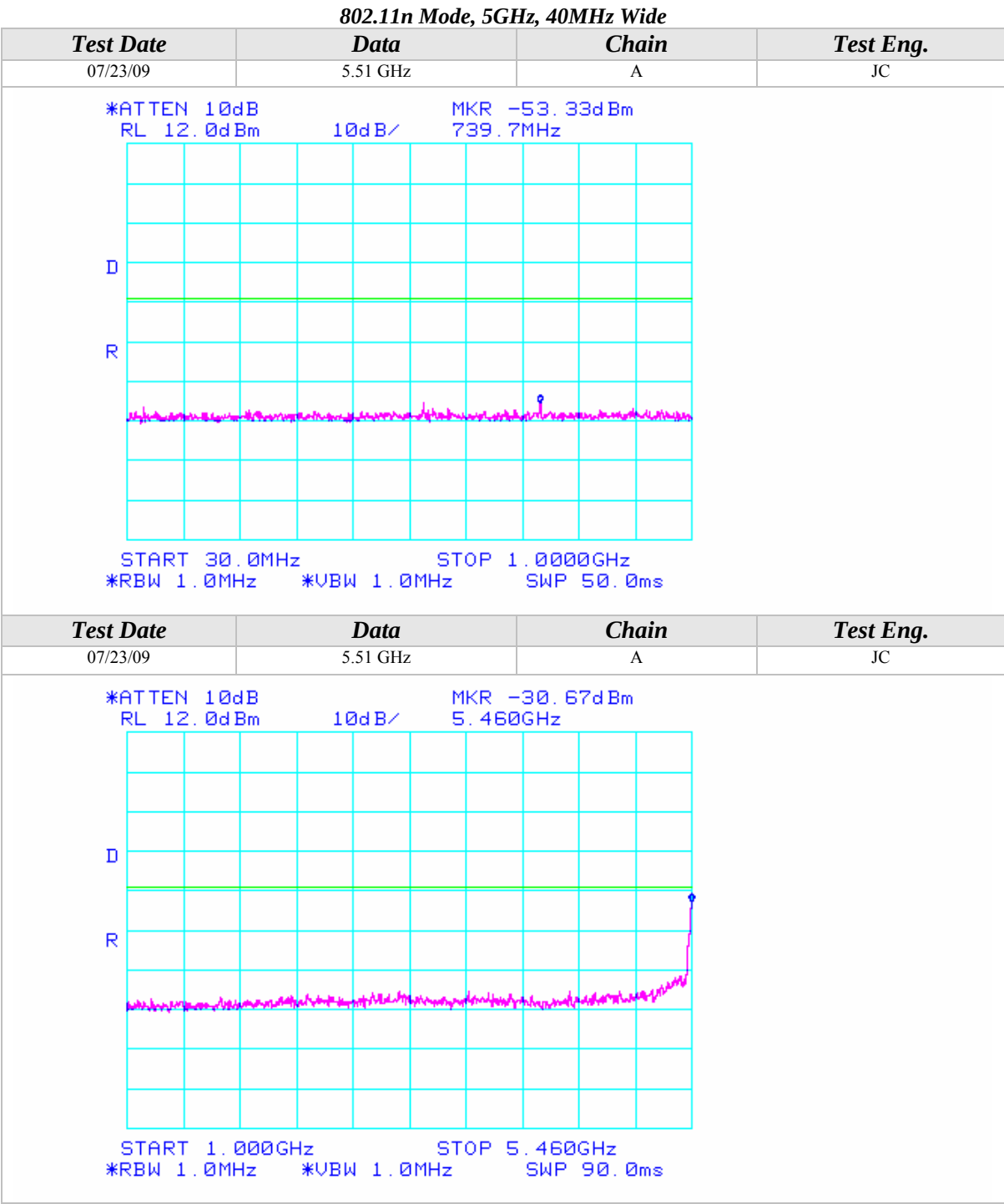


Conducted Out Of Band Emissions (Continued)





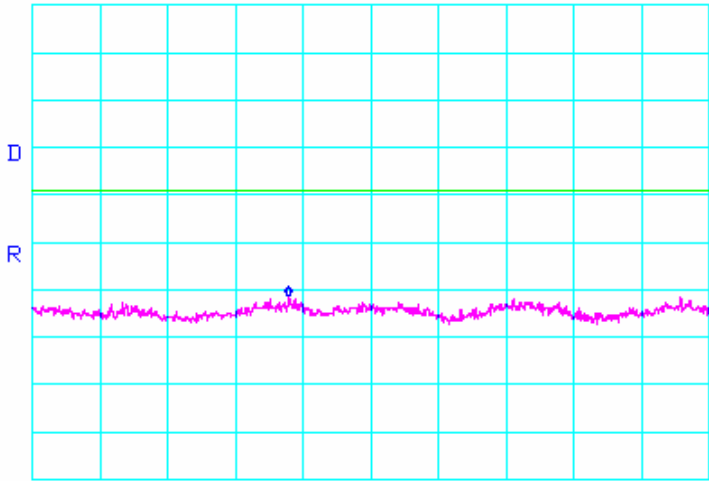
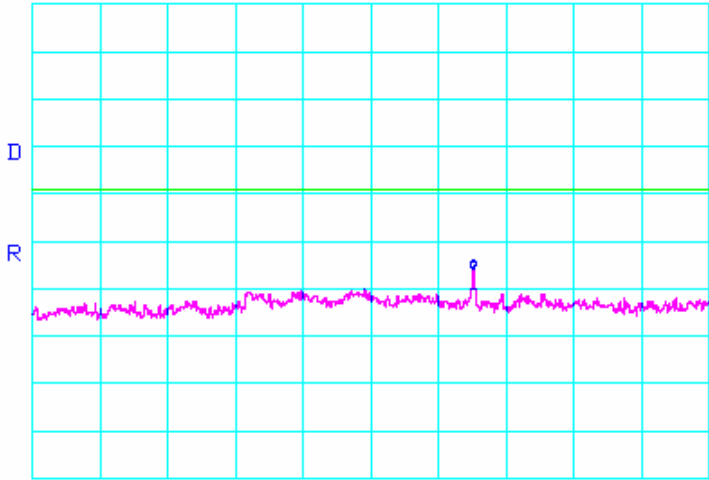
Conducted Out Of Band Emissions (Continued)





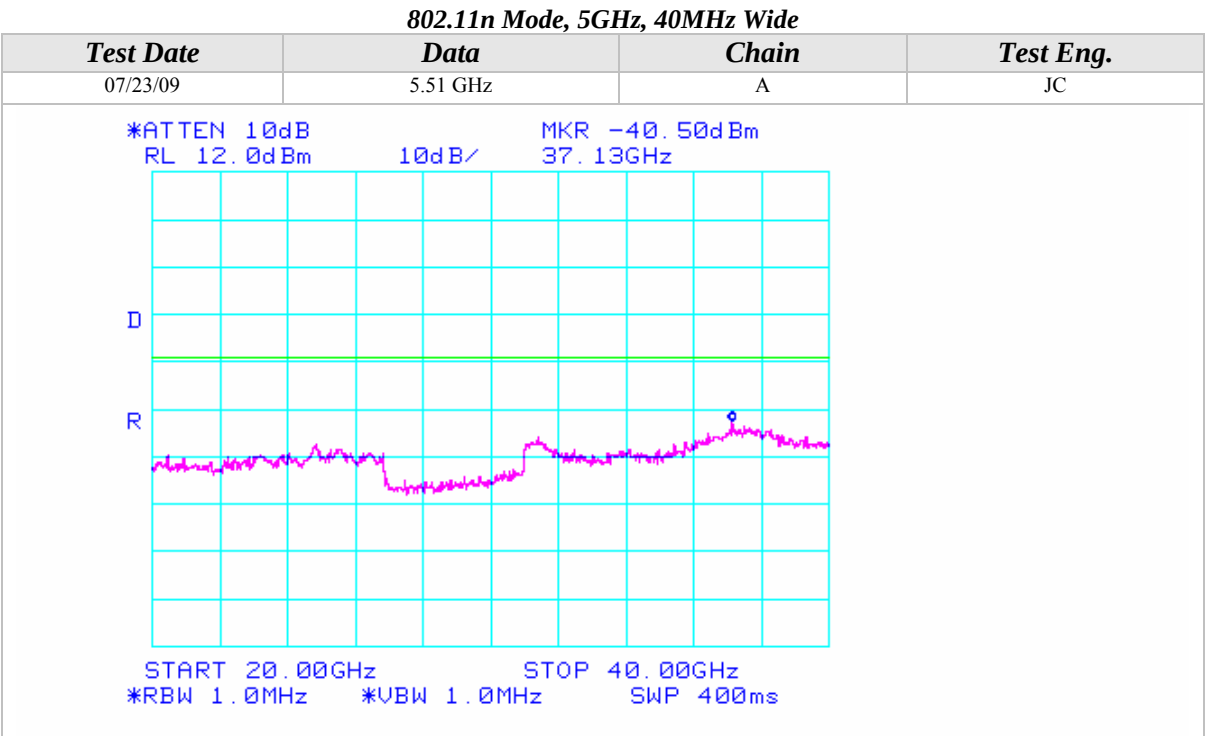
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.51 GHz	A	JC
*ATTEN 10dB MKR -49.33dBm RL 12.0dBm 10dB/ 7.342GHz  START 5.725GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.51 GHz	A	JC
*ATTEN 10dB MKR -43.83dBm RL 12.0dBm 10dB/ 16.52GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



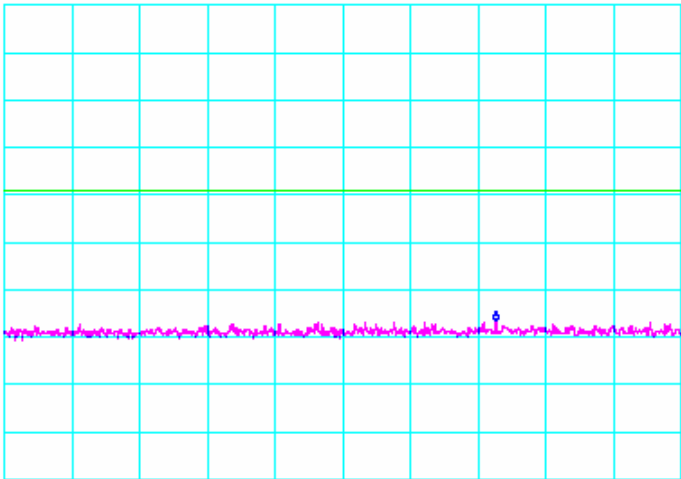
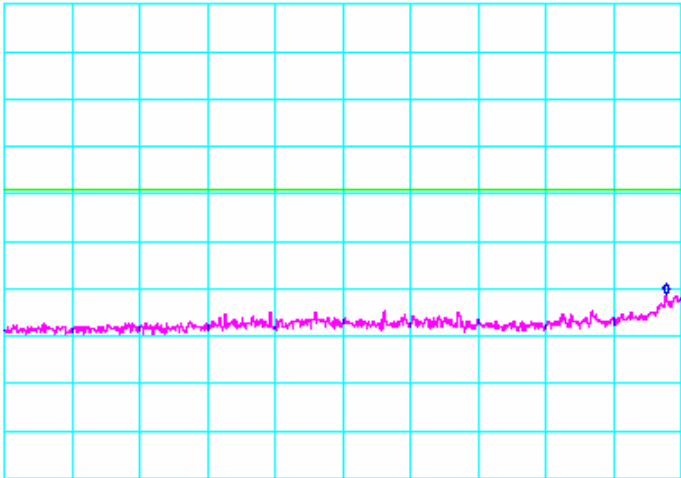
Conducted Out Of Band Emissions (Continued)





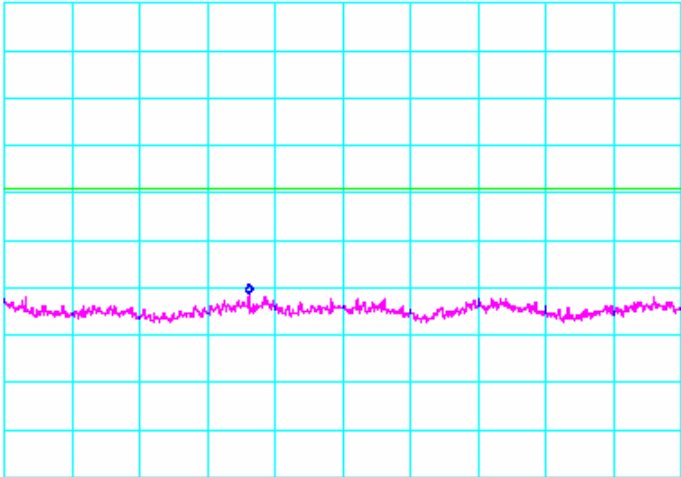
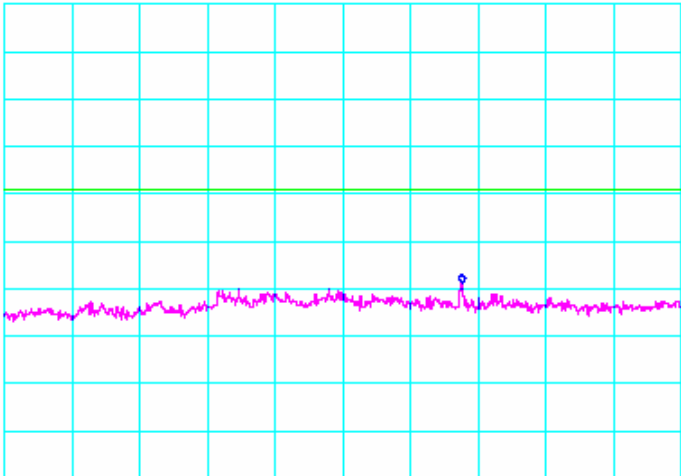
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.59 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.67dBm 734.9MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.59 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.00dBm 5.363GHz  START 1.000GHz STOP 5.460GHz *RBW 1.0MHz *VBW 1.0MHz SWP 90.0ms			



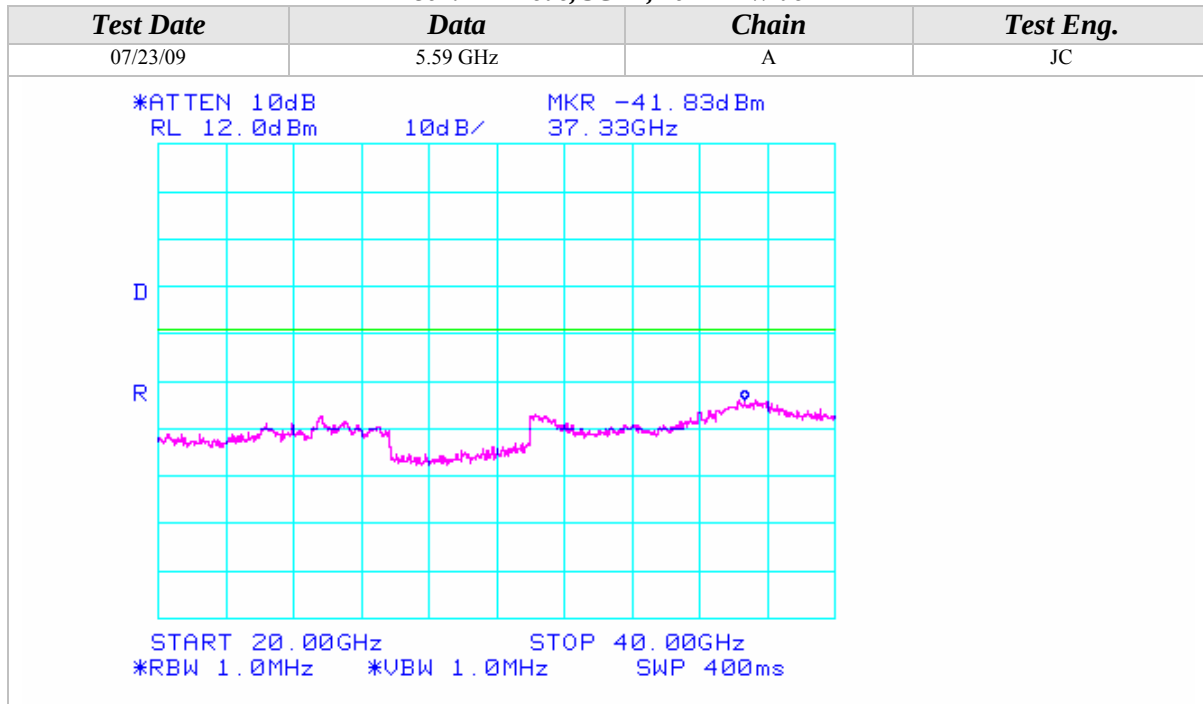
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide			
Test Date	Data	Chain	Test Eng.
07/23/09	5.59 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.33dBm 7.271GHz  START 5.725GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.59 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -46.83dBm 16.77GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



Conducted Out Of Band Emissions (Continued)

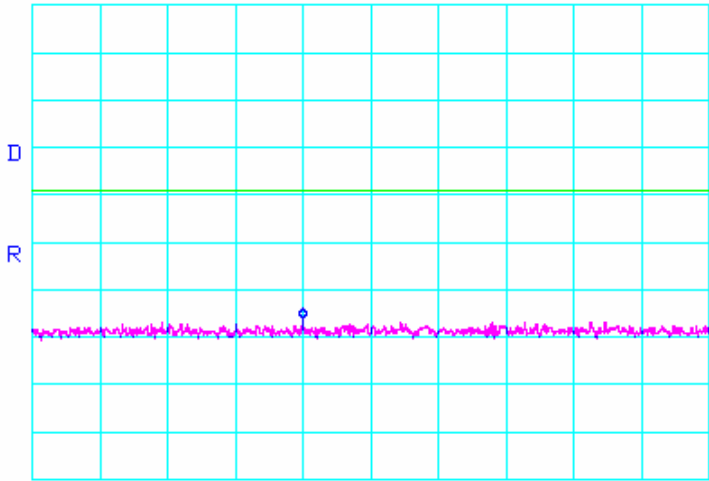
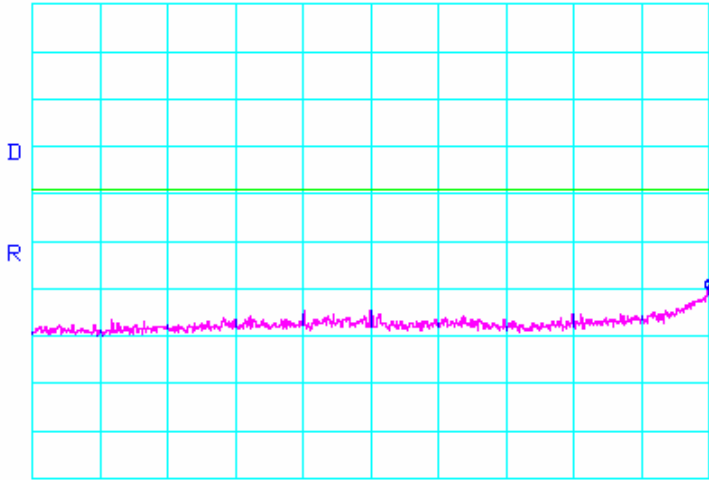
802.11n Mode, 5GHz, 40MHz Wide





Conducted Out Of Band Emissions (Continued)

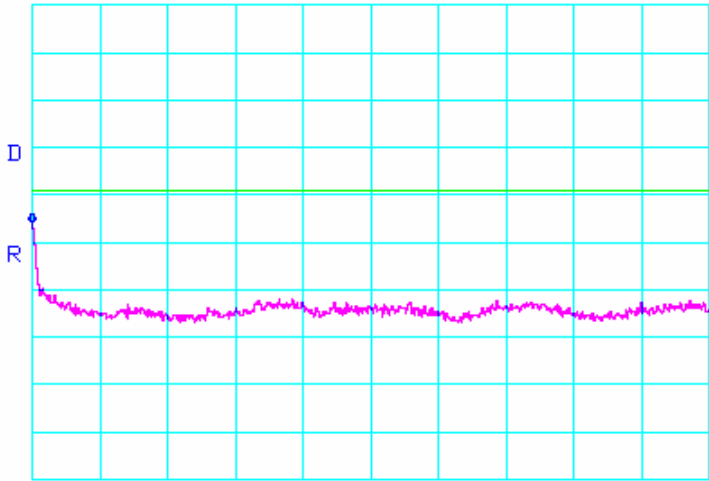
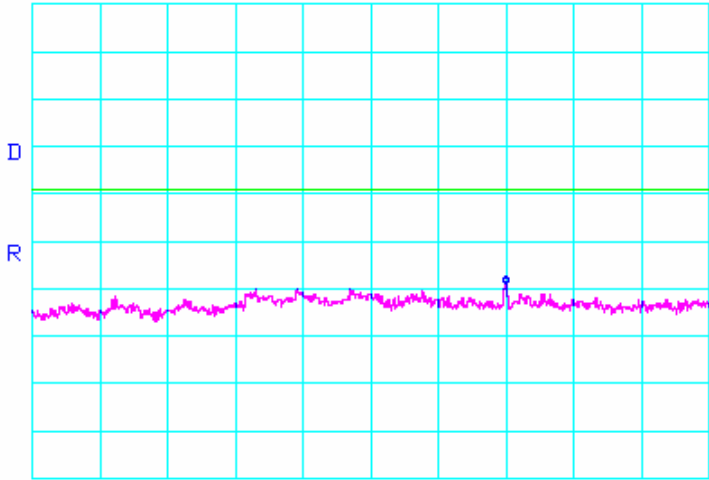
802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.67 GHz	A	JC
*ATTEN 10dB MKR -54.00dBm RL 12.0dBm 10dB/ 418.0MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.67 GHz	A	JC
*ATTEN 10dB MKR -48.00dBm RL 12.0dBm 10dB/ 5.453GHz  START 1.000GHz STOP 5.460GHz *RBW 1.0MHz *VBW 1.0MHz SWP 90.0ms			



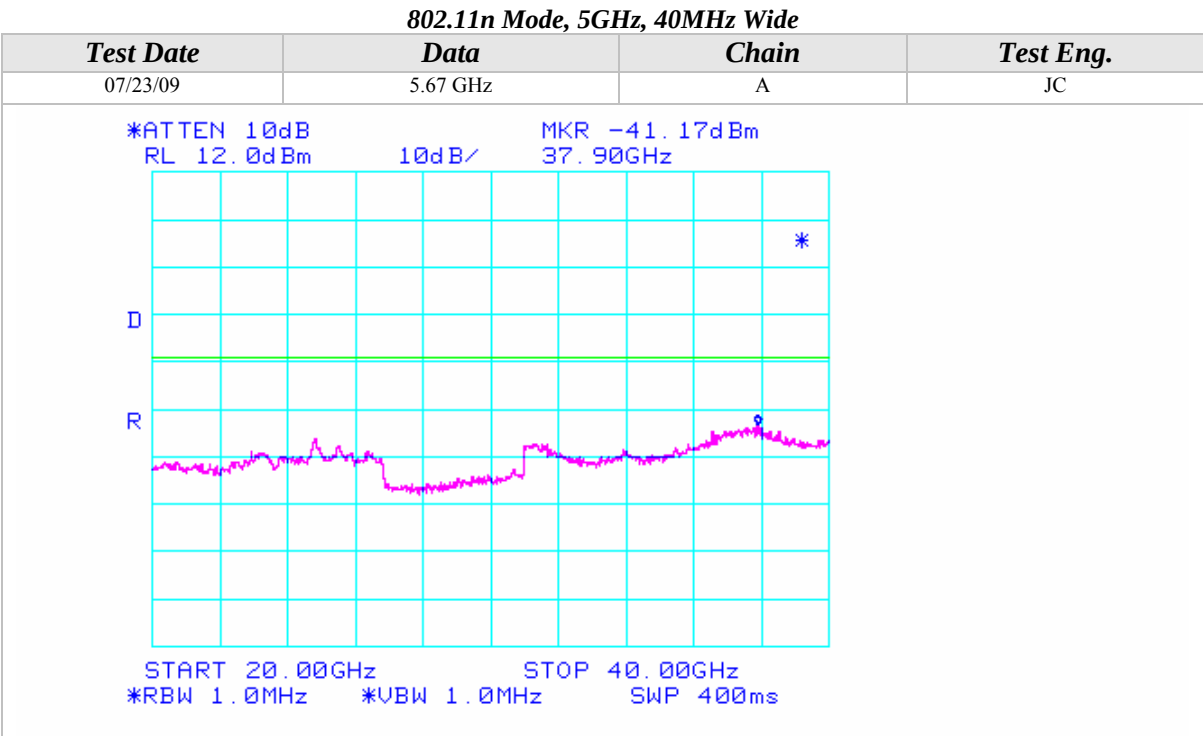
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.67 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -34.00dBm 5.725GHz  START 5.725GHz *RBW 1.0MHz *VBW 1.0MHz SWP 86.0ms STOP 10.000GHz			
Test Date	Data	Chain	Test Eng.
07/23/09	5.67 GHz	A	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.17dBm 17.00GHz  START 10.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms STOP 20.00GHz			



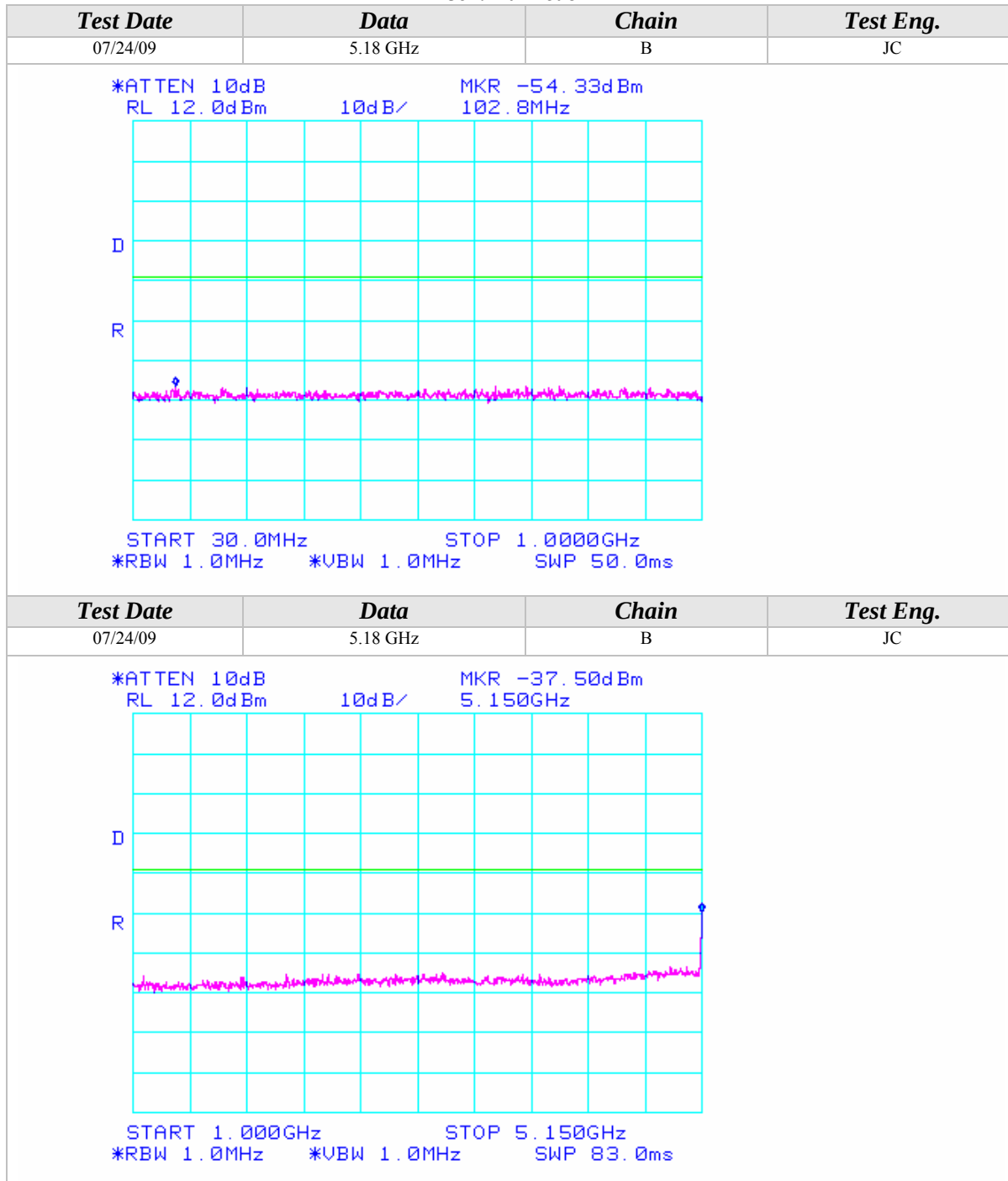
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

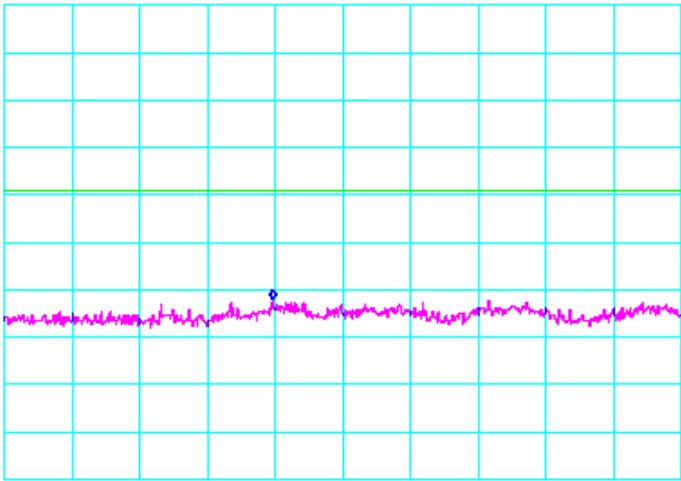
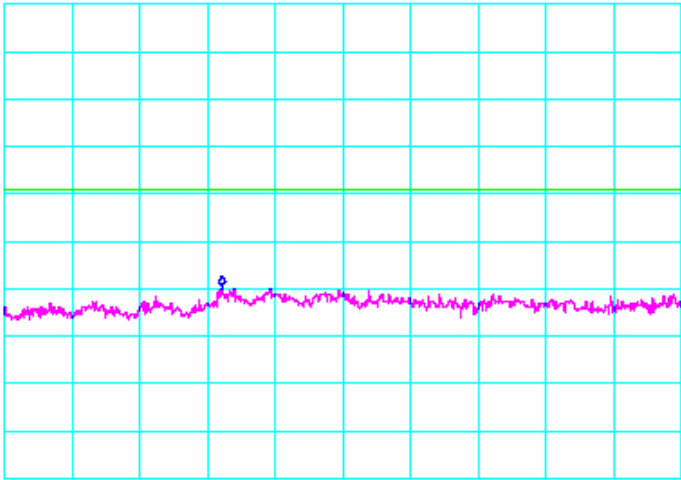
802.11a Mode





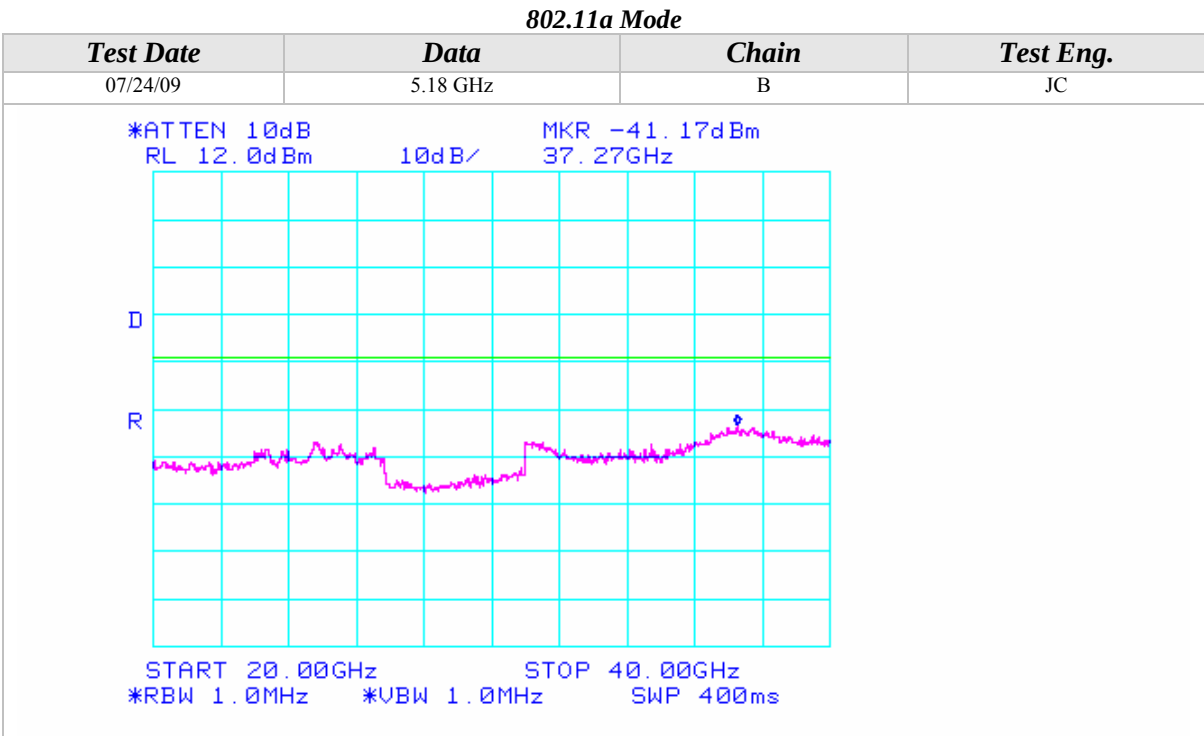
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.18 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -50.00dBm 7.195GHz  START 5.350GHz *RBW 1.0MHz STOP 10.000GHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.18 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.50dBm 13.22GHz  START 10.00GHz *RBW 1.0MHz STOP 20.00GHz *VBW 1.0MHz SWP 200ms			

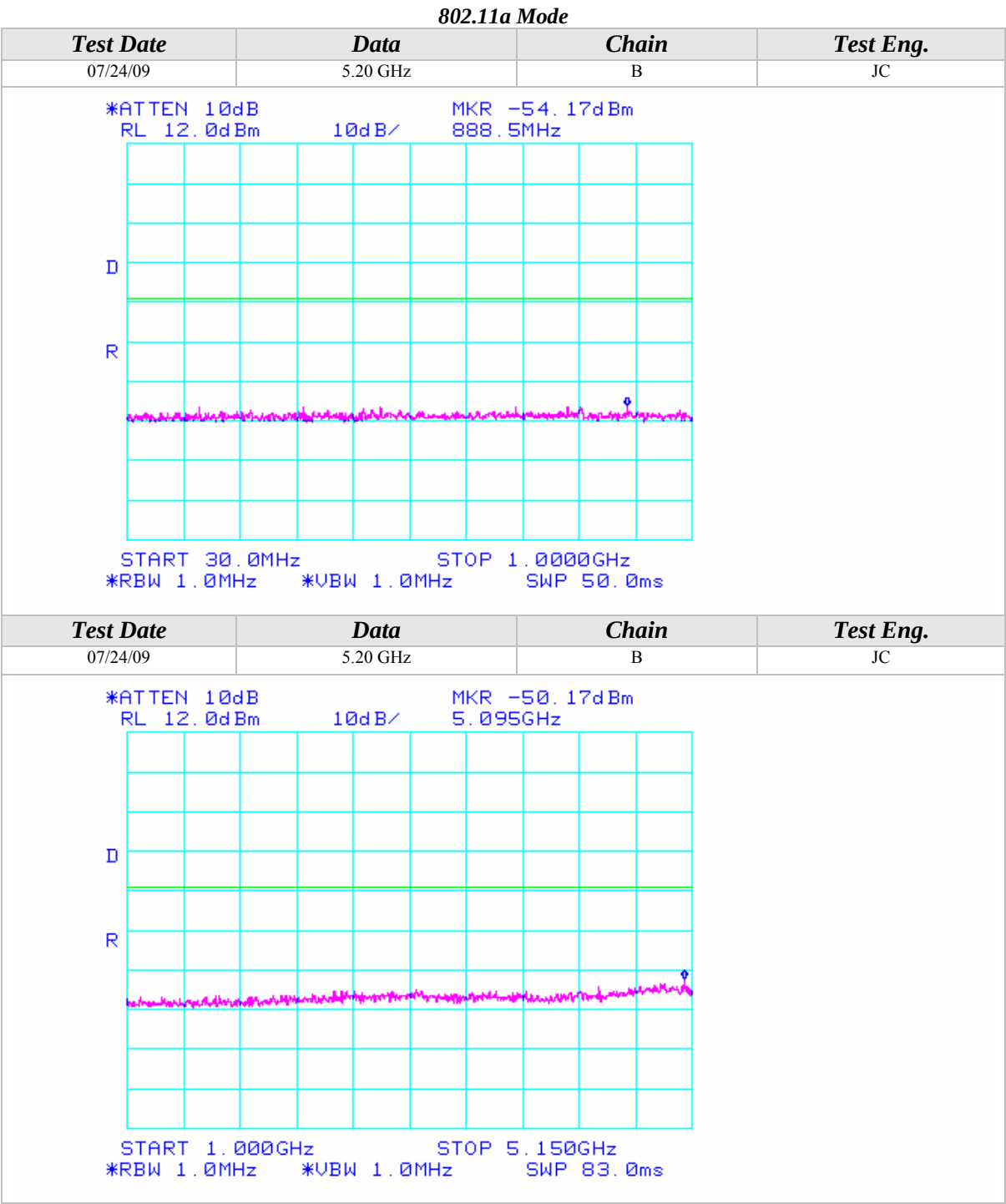


Conducted Out Of Band Emissions (Continued)



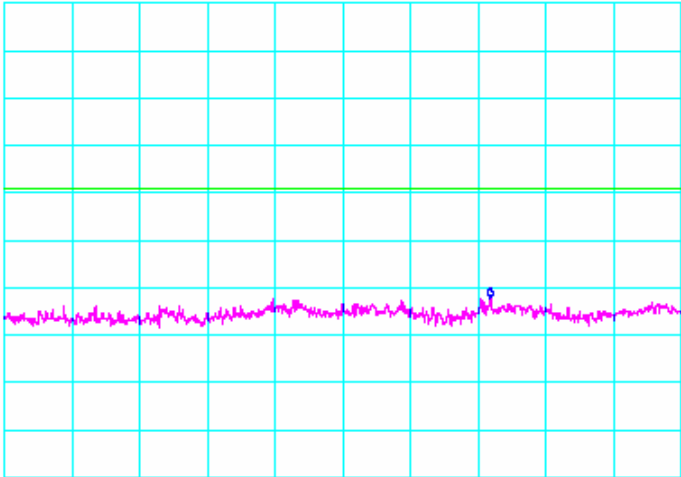
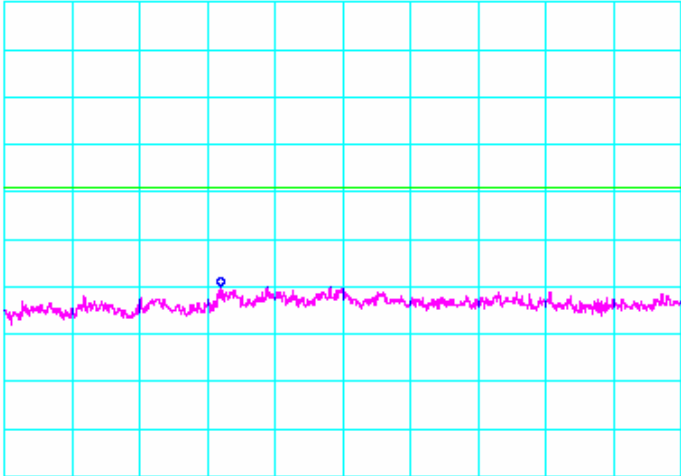


Conducted Out Of Band Emissions (Continued)



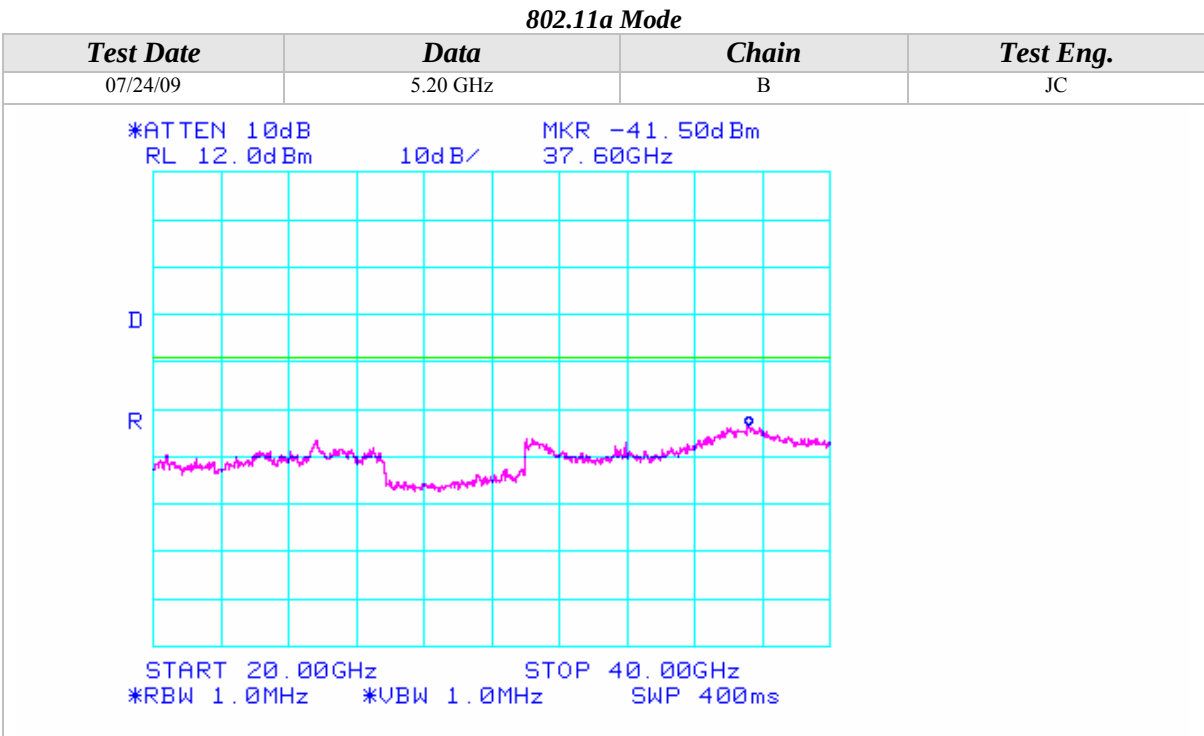


Conducted Out Of Band Emissions (Continued)

802.11a Mode			
Test Date	Data	Chain	Test Eng.
07/24/09	5.20 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -50.17dBm 8.690GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.20 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -48.00dBm 13.20GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



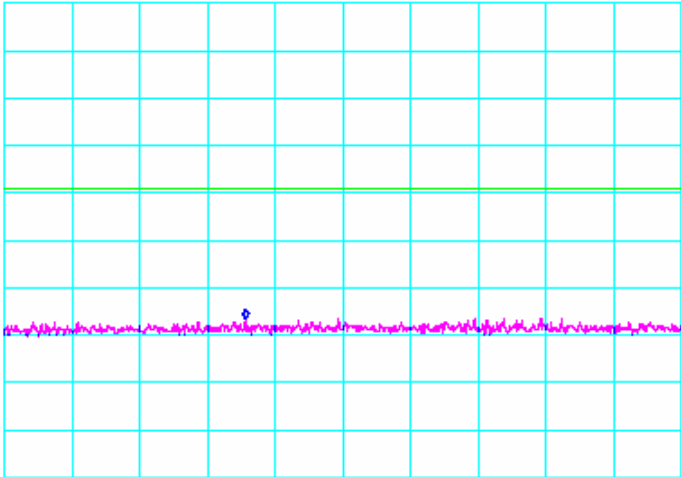
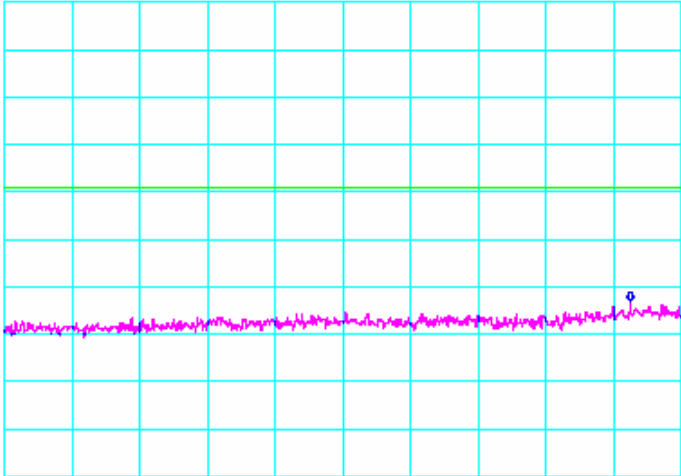
Conducted Out Of Band Emissions (Continued)





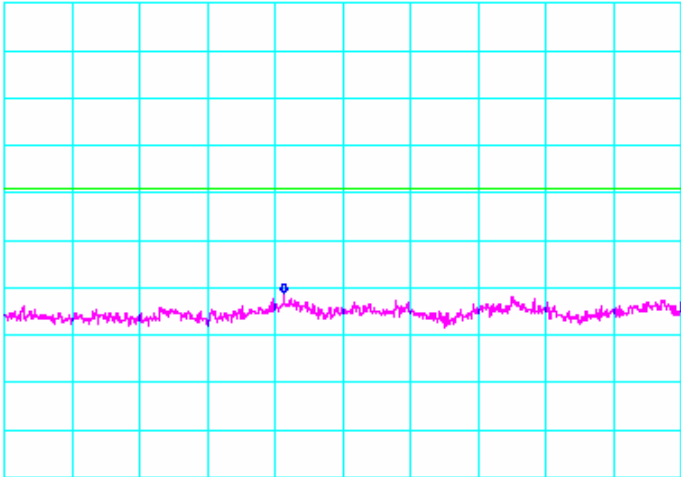
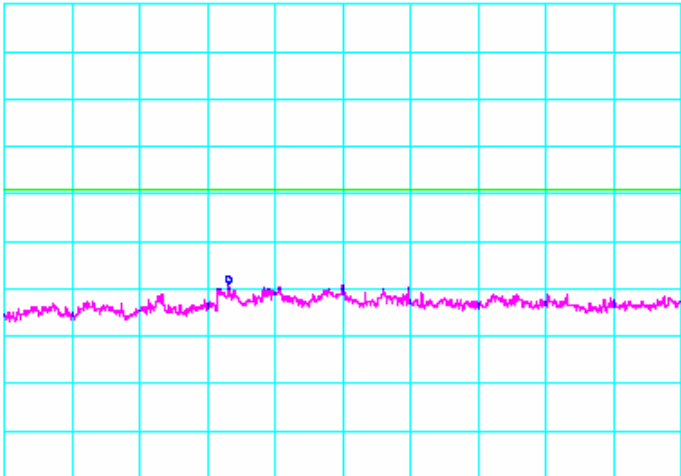
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.24 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.50dBm 376.0MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.24 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -51.17dBm 4.839GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			

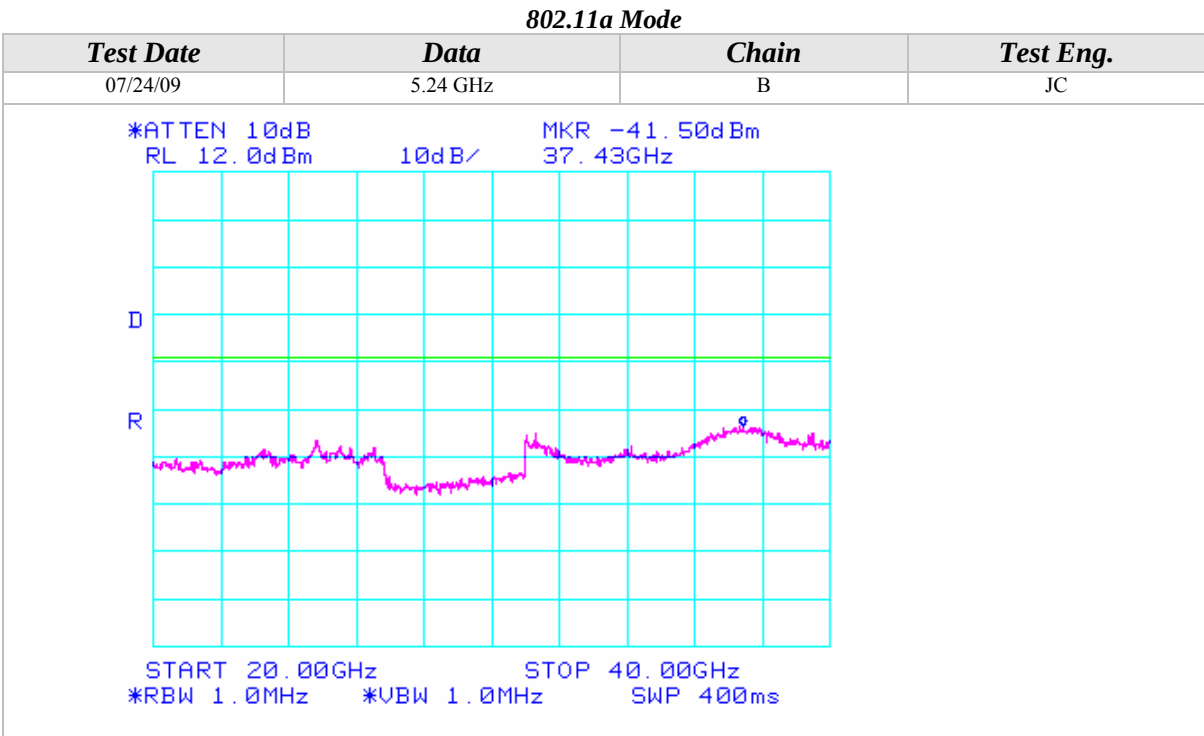


Conducted Out Of Band Emissions (Continued)

802.11a Mode			
Test Date	Data	Chain	Test Eng.
07/24/09	5.24 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.17dBm 7.272GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.24 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.17dBm 13.32GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			

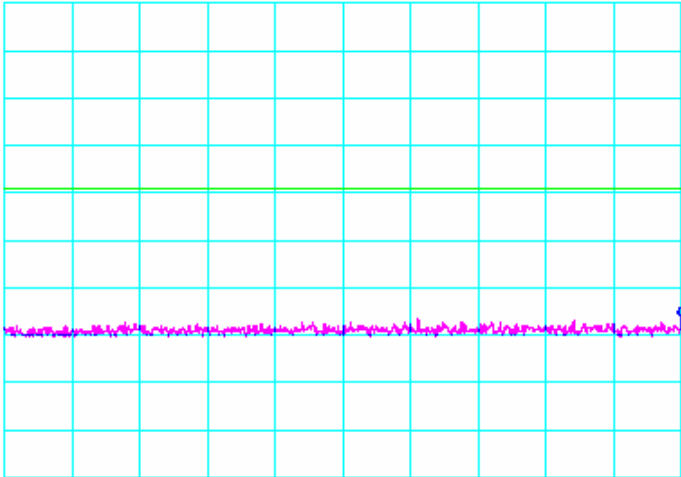
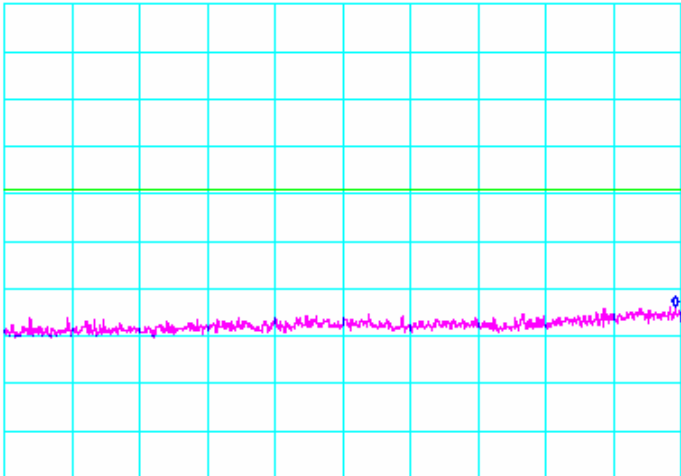


Conducted Out Of Band Emissions (Continued)





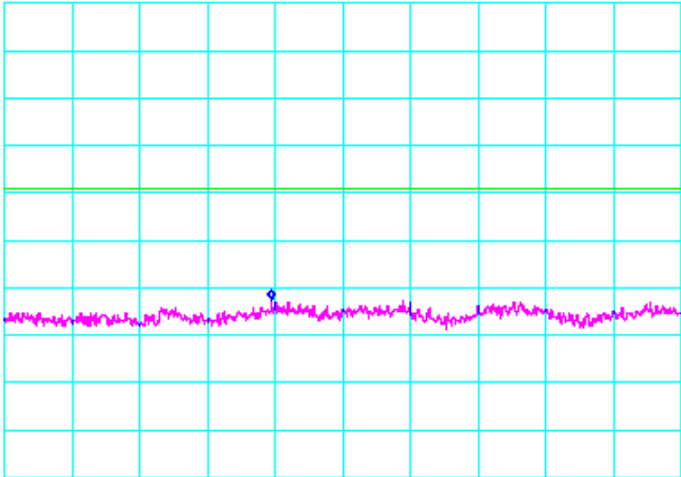
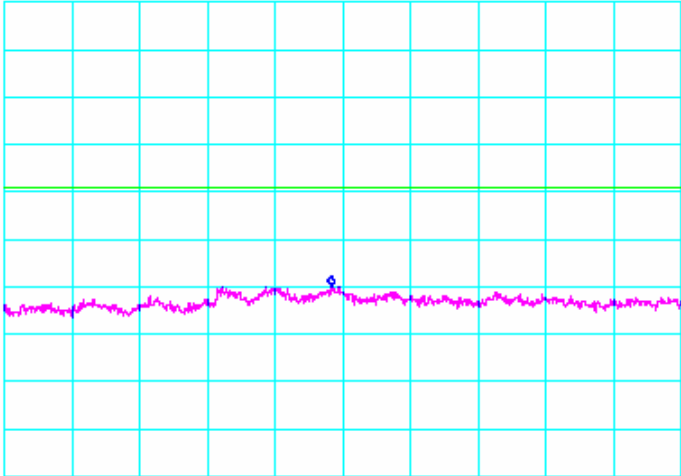
Conducted Out Of Band Emissions (Continued)

802.11a Mode			
Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.17dBm 1.0000GHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -51.67dBm 5.115GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



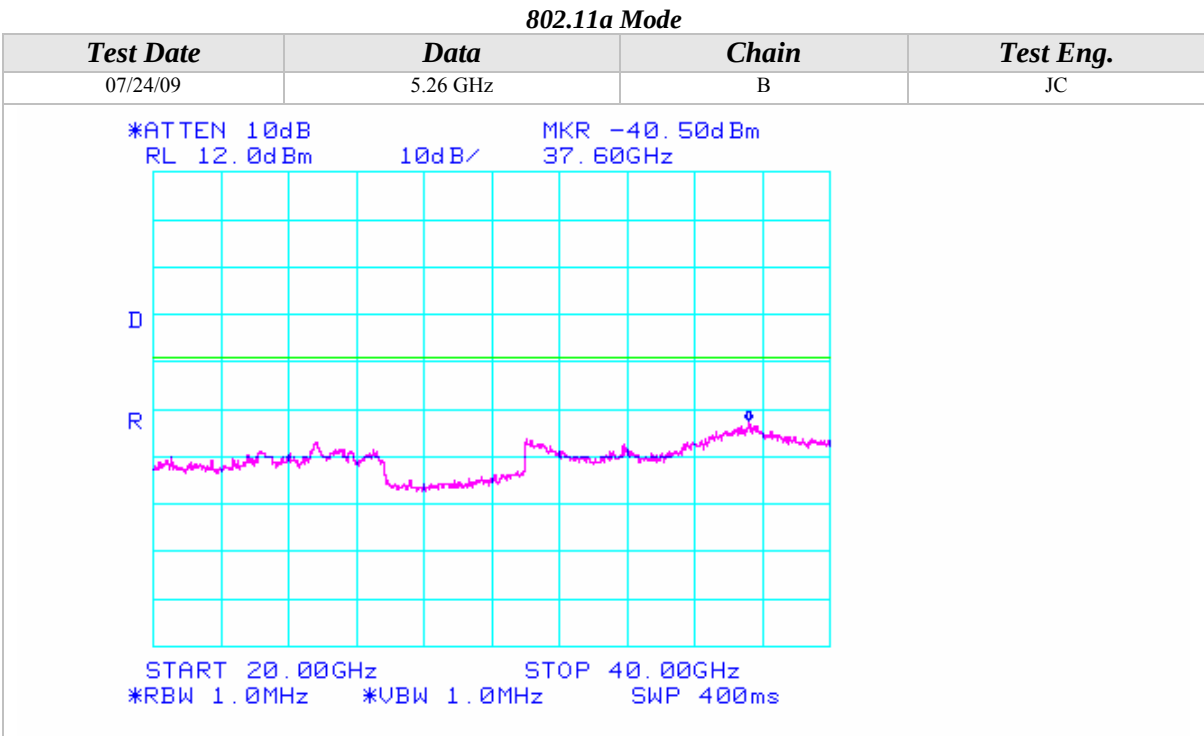
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -50.50dBm 7.187GHz  START 5.350GHz *RBW 1.0MHz STOP 10.000GHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.83dBm 14.83GHz  START 10.00GHz *RBW 1.0MHz STOP 20.00GHz *VBW 1.0MHz SWP 200ms			



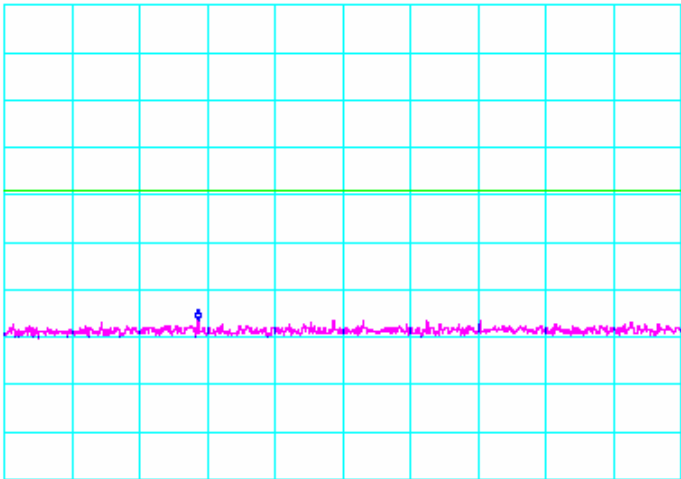
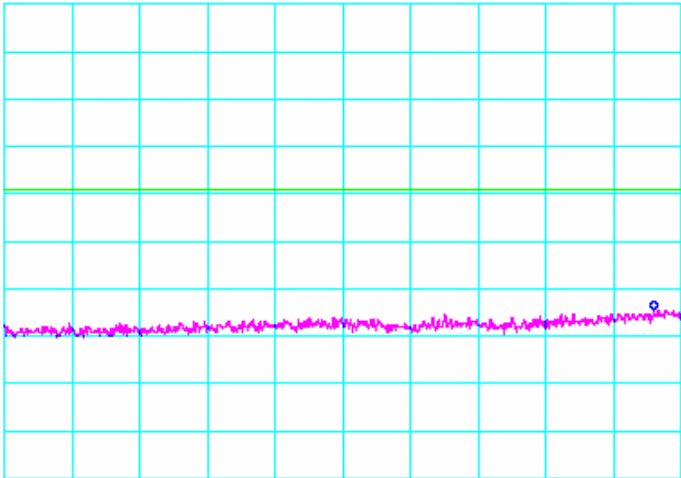
Conducted Out Of Band Emissions (Continued)





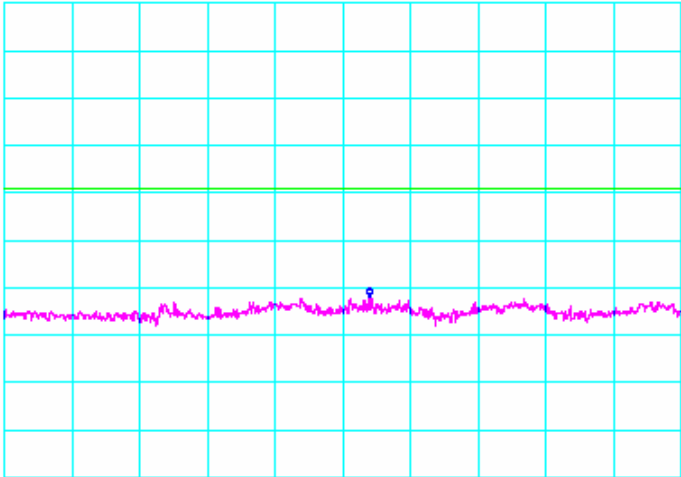
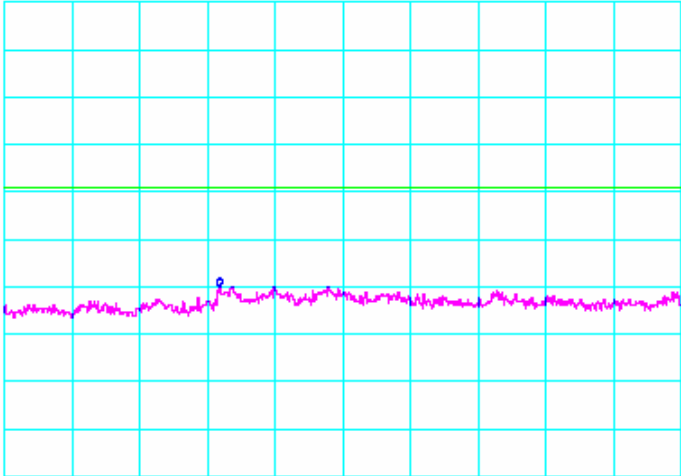
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.28 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.33dBm 308.1MHz  START 30.0MHz *RBW 1.0MHz STOP 1.0000GHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.28 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -52.50dBm 4.984GHz  START 1.000GHz *RBW 1.0MHz STOP 5.150GHz *VBW 1.0MHz SWP 83.0ms			

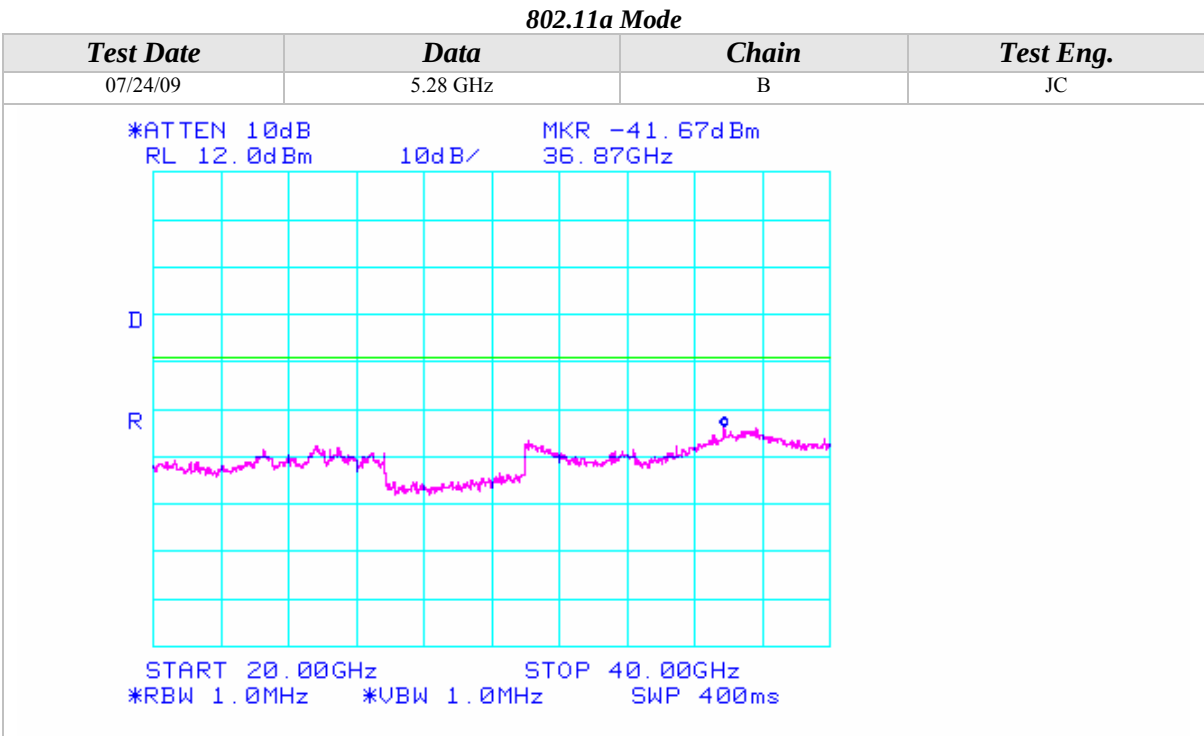


Conducted Out Of Band Emissions (Continued)

802.11a Mode			
Test Date	Data	Chain	Test Eng.
07/24/09	5.28 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -50.00dBm 7.861GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.28 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -48.00dBm 13.18GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



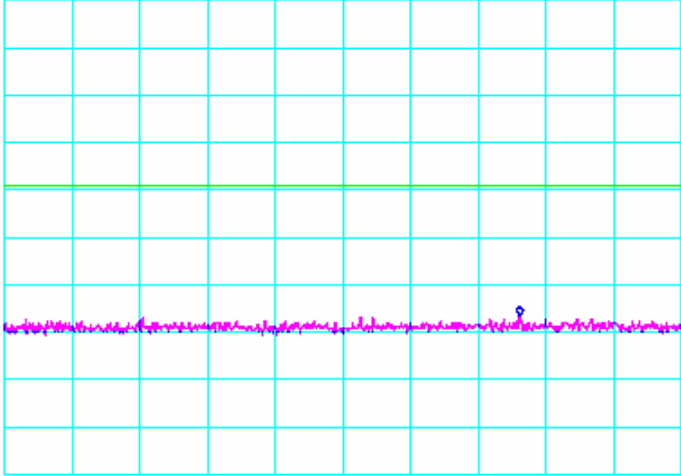
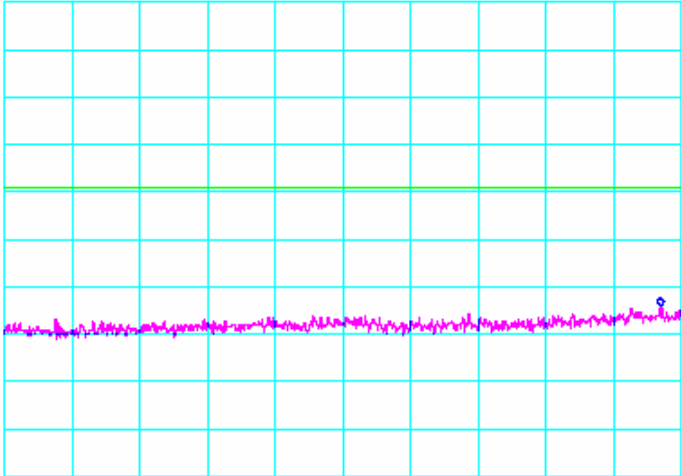
Conducted Out Of Band Emissions (Continued)





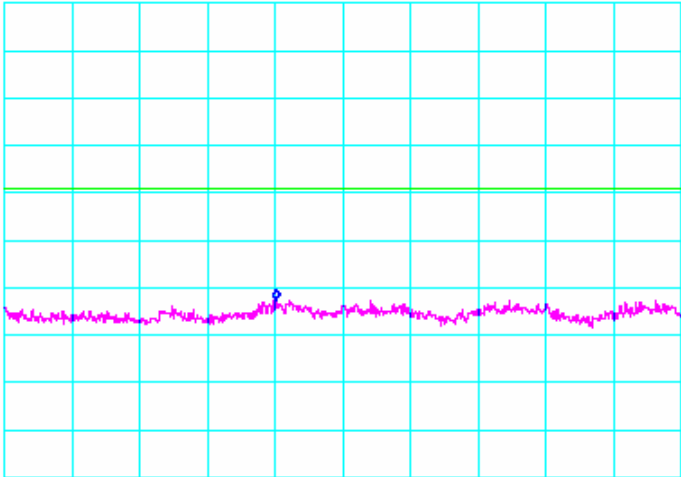
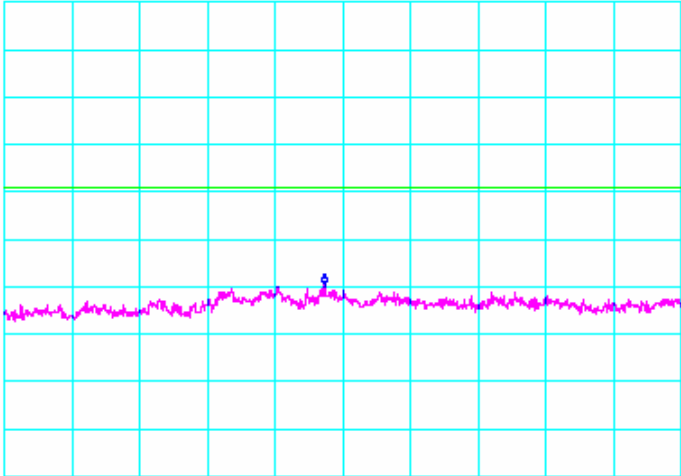
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.32 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.50dBm 768.8MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.32 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -52.17dBm 5.026GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			

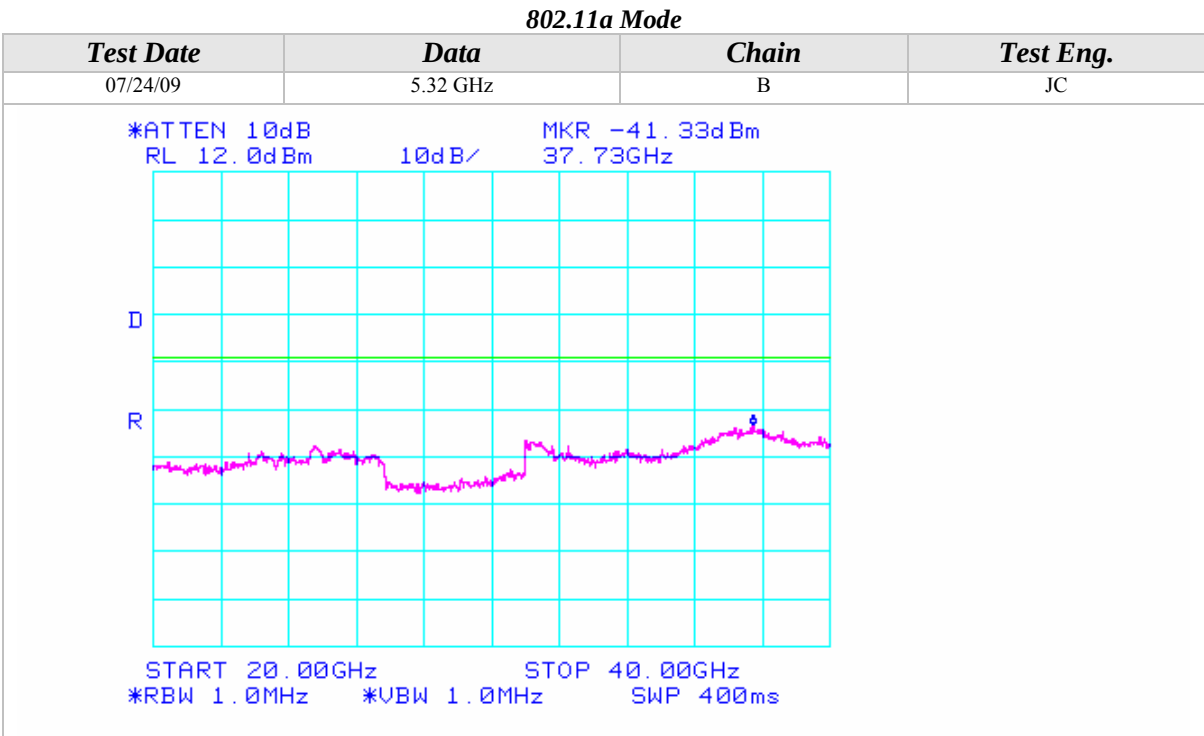


Conducted Out Of Band Emissions (Continued)

802.11a Mode			
Test Date	Data	Chain	Test Eng.
07/24/09	5.32 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -50.50dBm 7.218GHz  START 5.350GHz *RBW 1.0MHz STOP 10.000GHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.32 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.50dBm 14.73GHz  START 10.00GHz *RBW 1.0MHz STOP 20.00GHz *VBW 1.0MHz SWP 200ms			



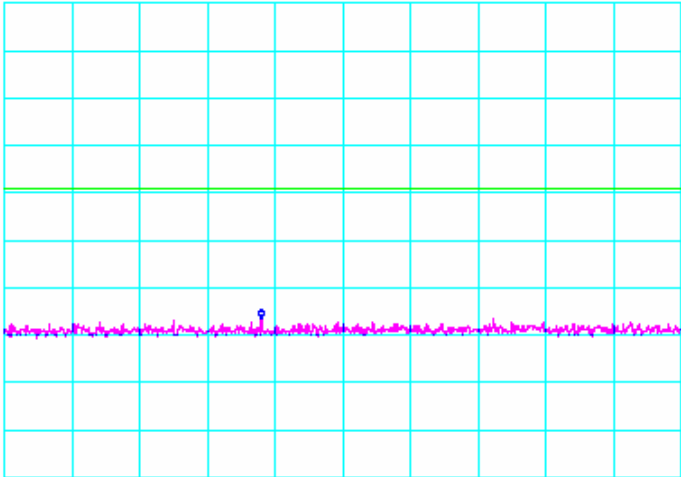
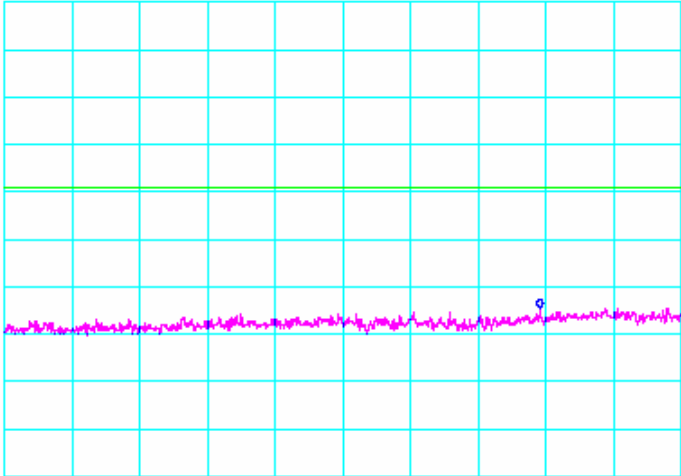
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

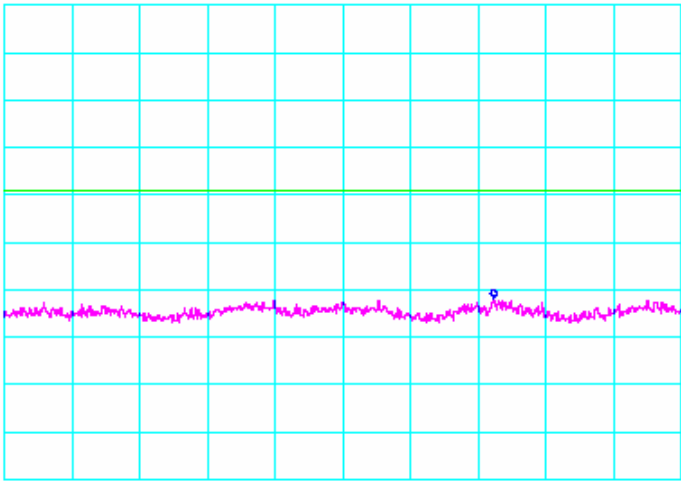
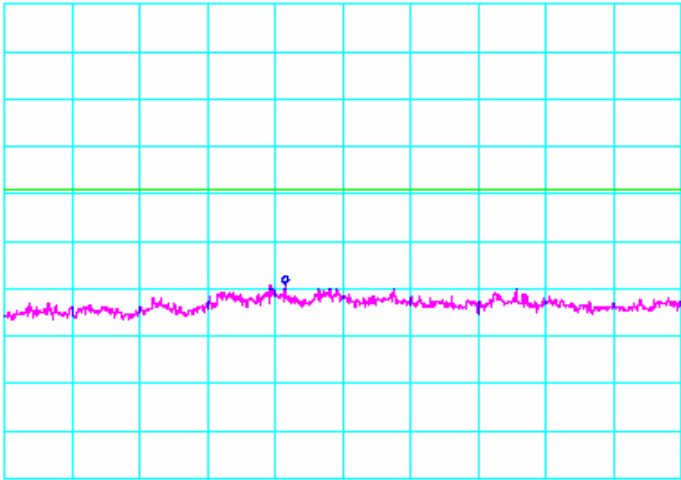
802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.50 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.50dBm 398.6MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.50 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -52.50dBm 4.531GHz  START 1.000GHz STOP 5.460GHz *RBW 1.0MHz *VBW 1.0MHz SWP 90.0ms			



Conducted Out Of Band Emissions (Continued)

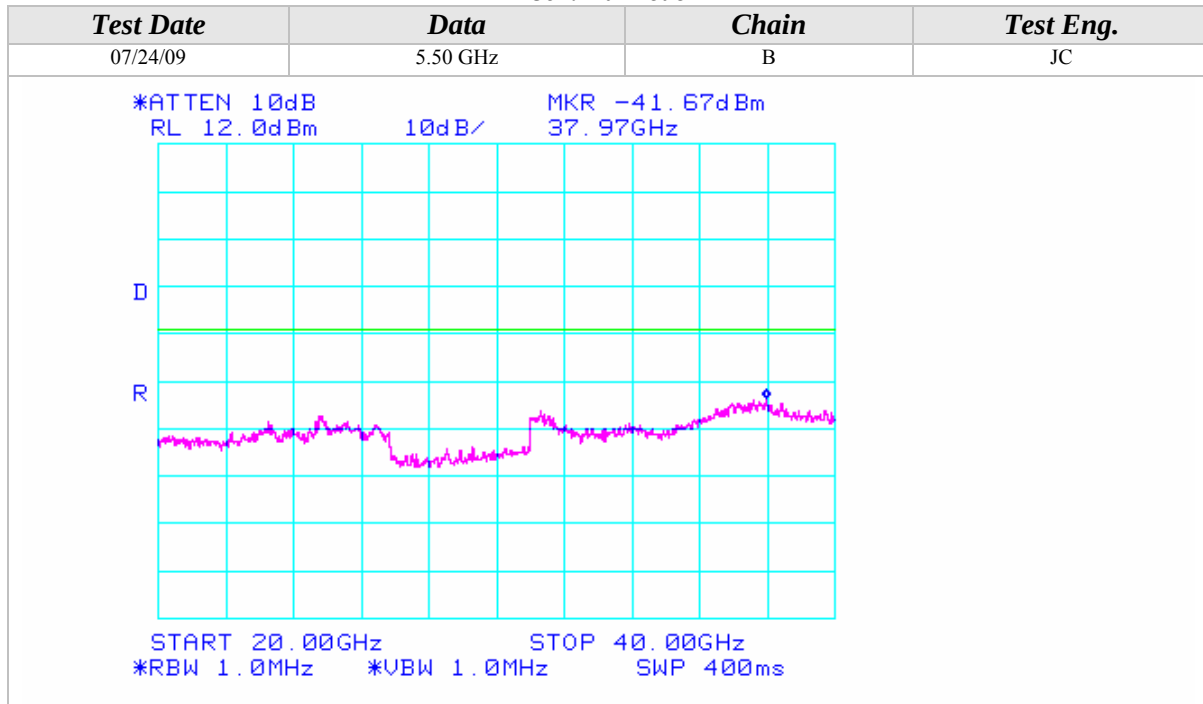
802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.50 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.83dBm 8.817GHz  START 5.725GHz *RBW 1.0MHz STOP 10.000GHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.50 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.17dBm 14.15GHz  START 10.00GHz *RBW 1.0MHz STOP 20.00GHz *VBW 1.0MHz SWP 200ms			



Conducted Out Of Band Emissions (Continued)

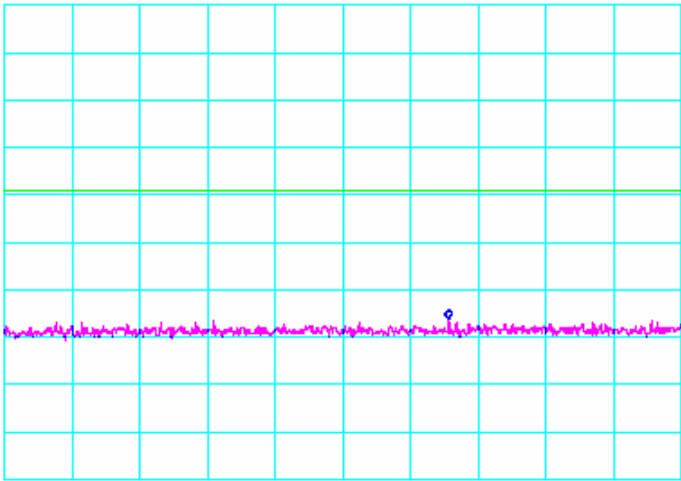
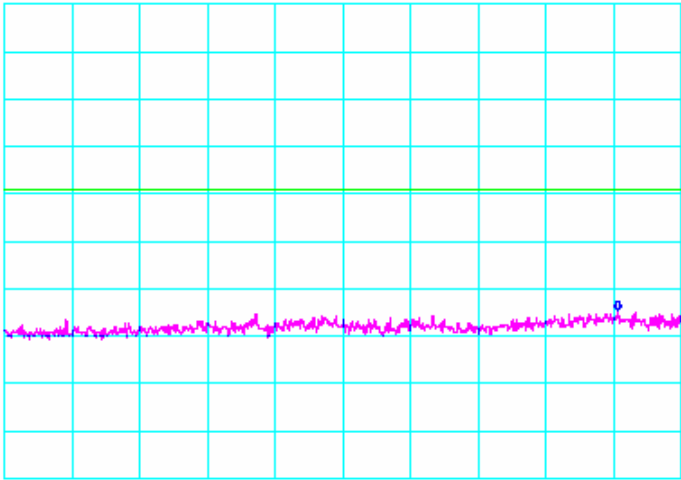
802.11a Mode





Conducted Out Of Band Emissions (Continued)

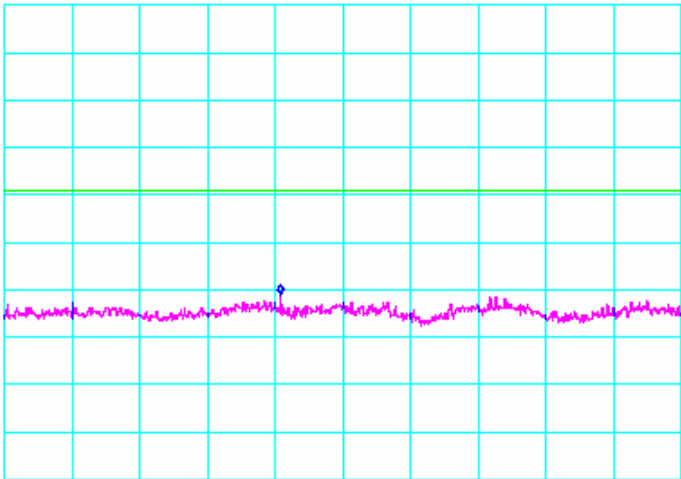
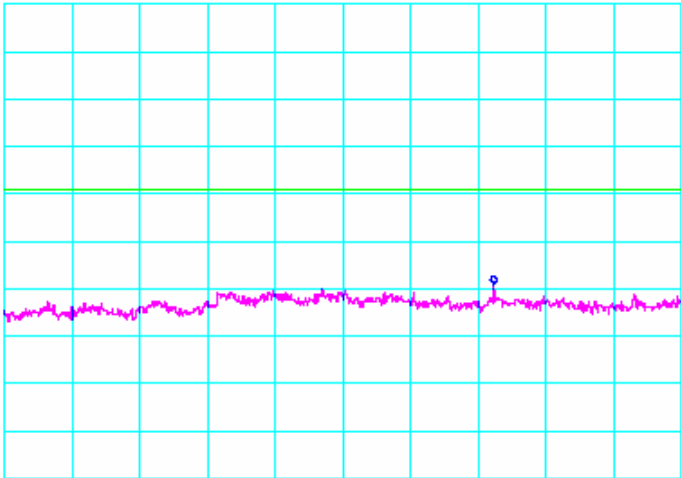
802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.60 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.17dBm 667.0MHz  START 30.0MHz *RBW 1.0MHz STOP 1.0000GHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.60 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -52.67dBm 5.044GHz  START 1.000GHz *RBW 1.0MHz STOP 5.460GHz *VBW 1.0MHz SWP 90.0ms			



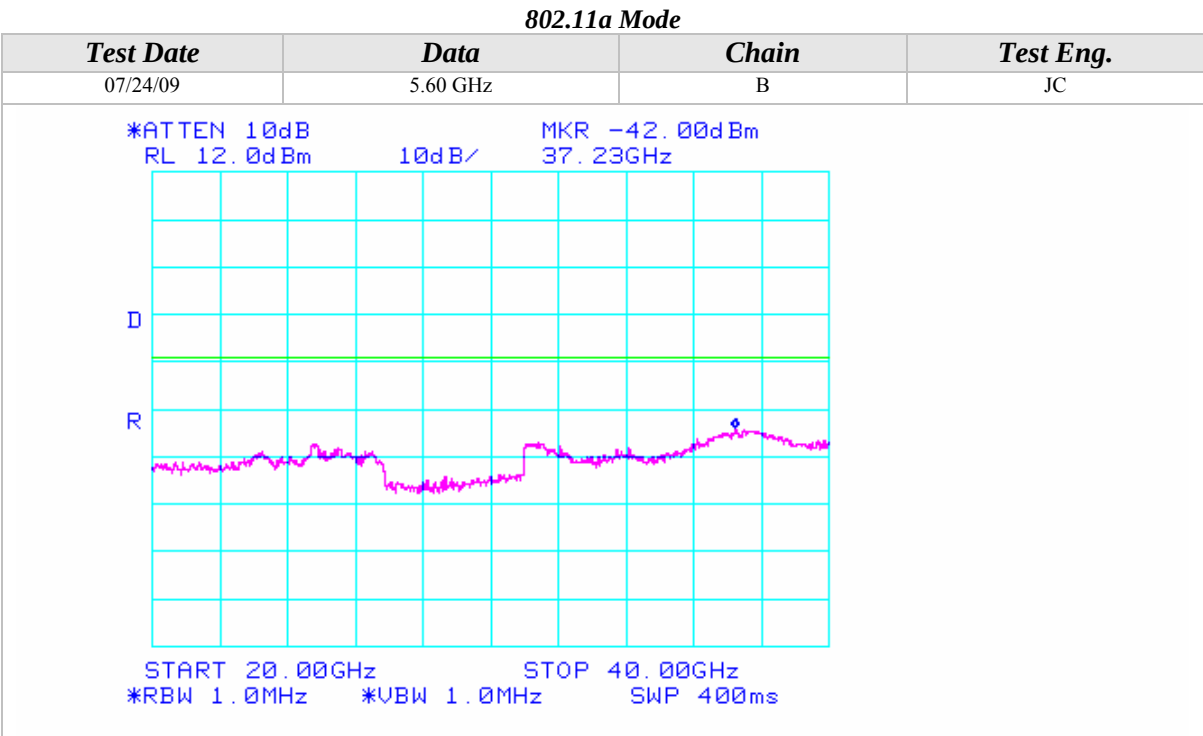
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.60 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.00dBm 7.471GHz  START 5.725GHz *RBW 1.0MHz STOP 10.000GHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.60 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.17dBm 17.23GHz  START 10.00GHz *RBW 1.0MHz STOP 20.00GHz *VBW 1.0MHz SWP 200ms			

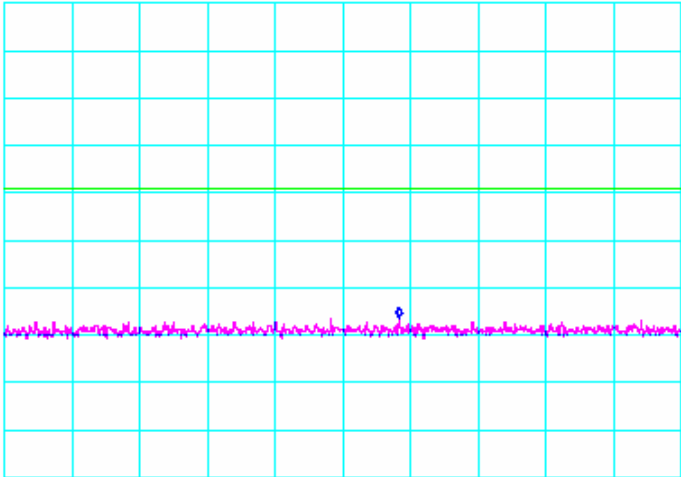
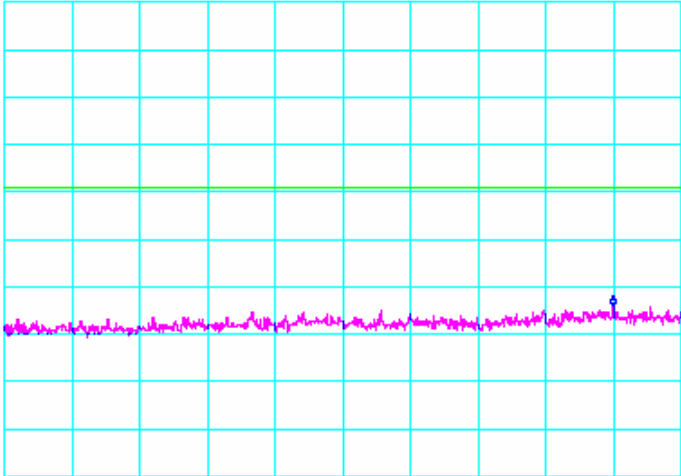


Conducted Out Of Band Emissions (Continued)



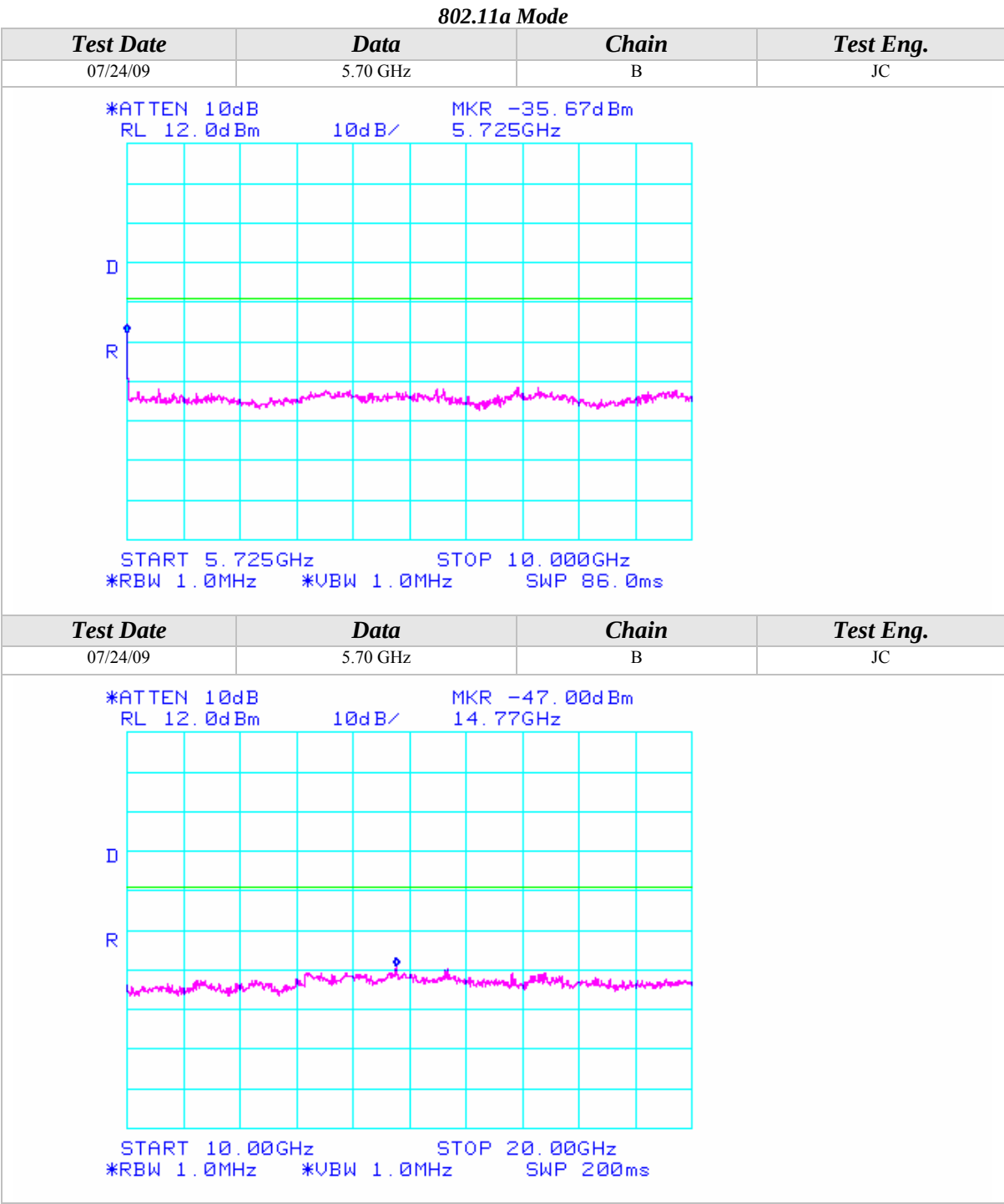


Conducted Out Of Band Emissions (Continued)

802.11a Mode			
Test Date	Data	Chain	Test Eng.
07/24/09	5.70 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.33dBm 595.8MHz  START 30.0MHz *RBW 1.0MHz STOP 1.0000GHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.70 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -52.00dBm 5.014GHz  START 1.000GHz *RBW 1.0MHz STOP 5.460GHz *VBW 1.0MHz SWP 90.0ms			

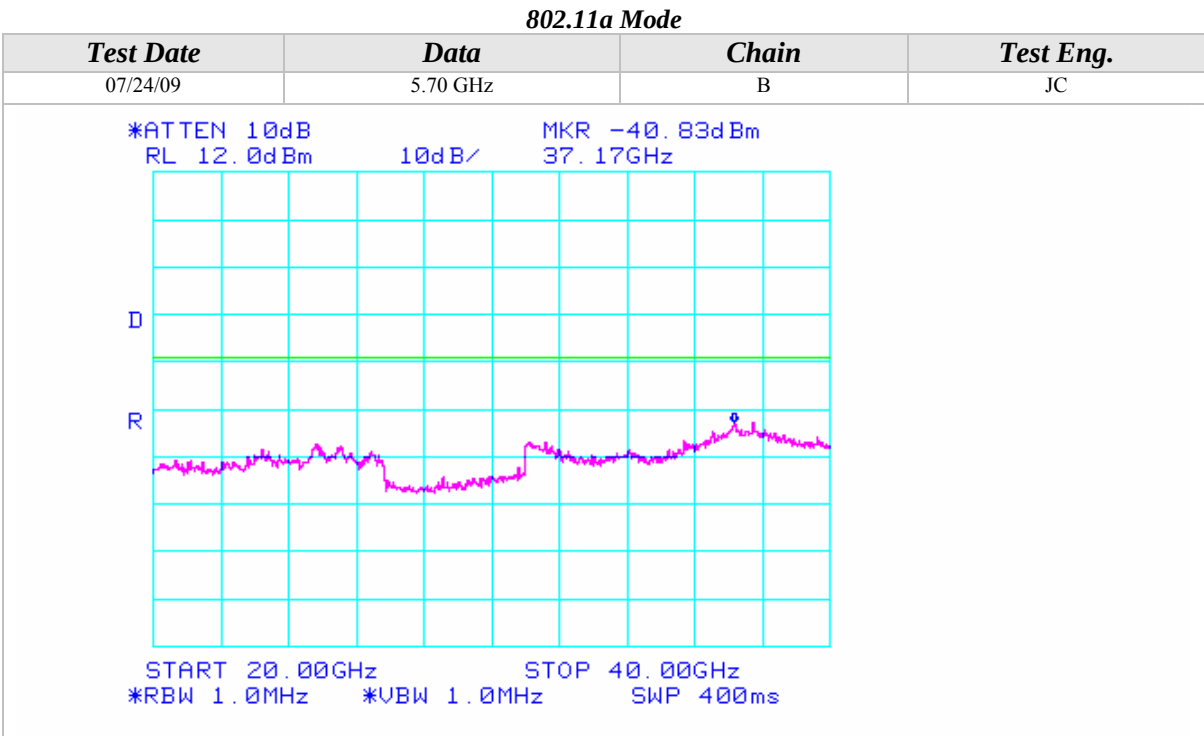


Conducted Out Of Band Emissions (Continued)



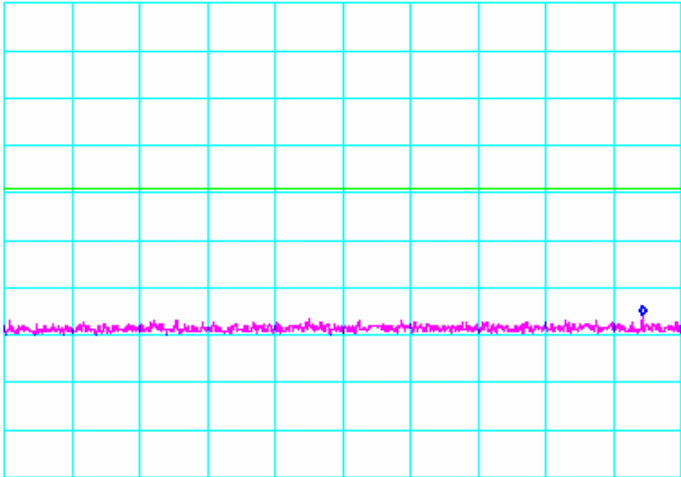
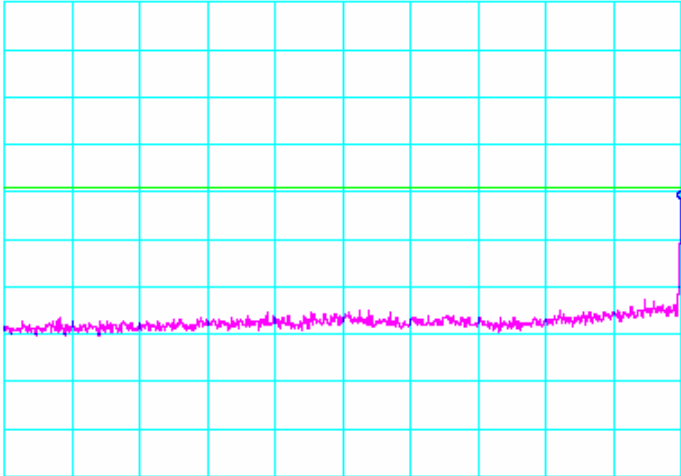


Conducted Out Of Band Emissions (Continued)





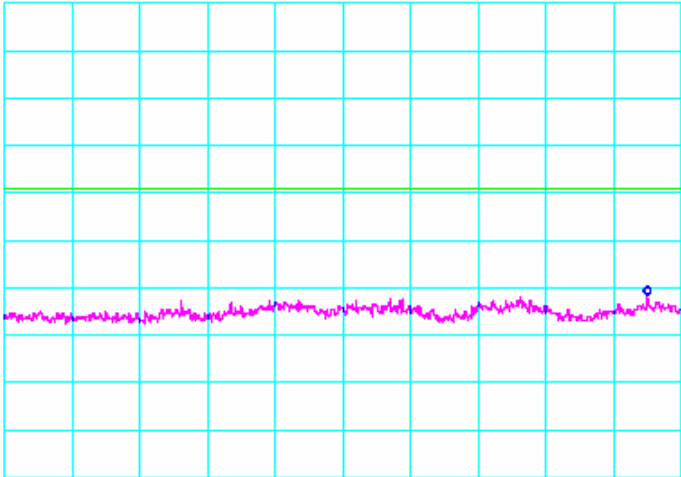
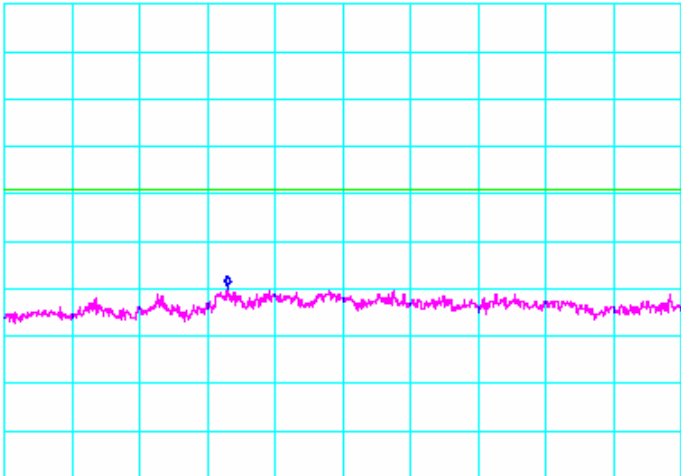
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide			
Test Date	Data	Chain	Test Eng.
07/24/09	5.18 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -53.83dBm 945.0MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
05/30/08	5.18 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -29.67dBm 5.150GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



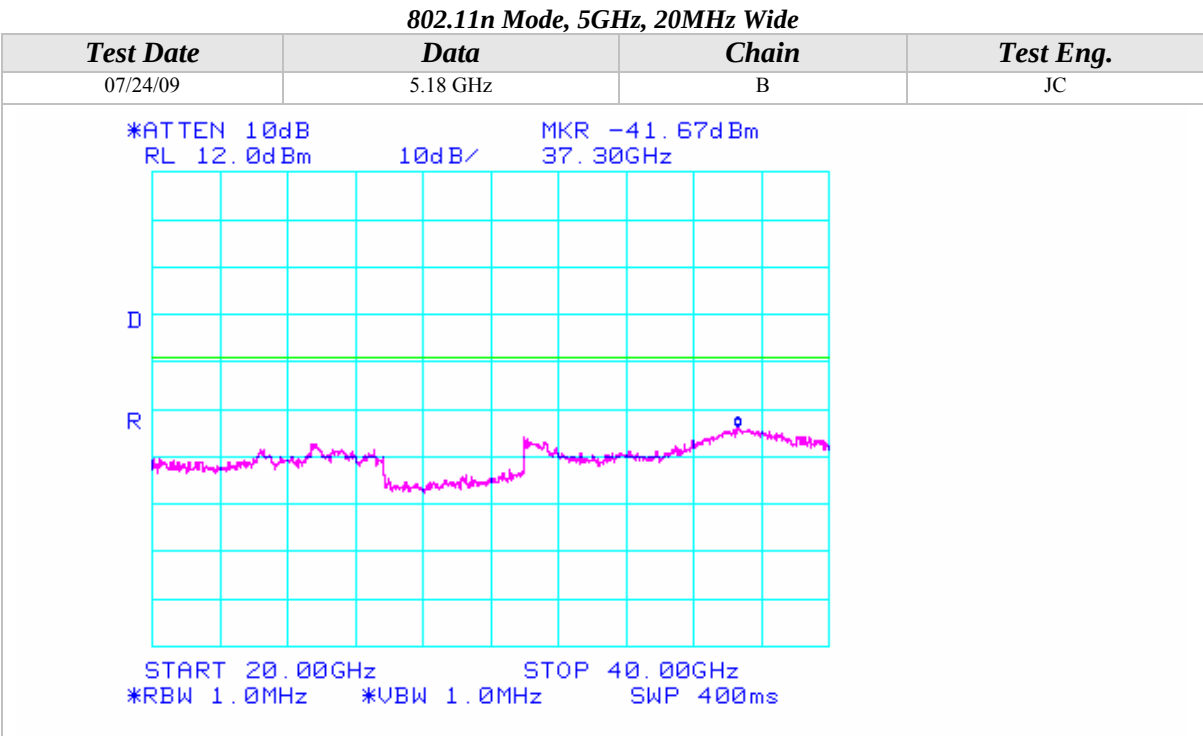
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.18 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.67dBm 9.768GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
05/30/08	5.18 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.50dBm 13.30GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			

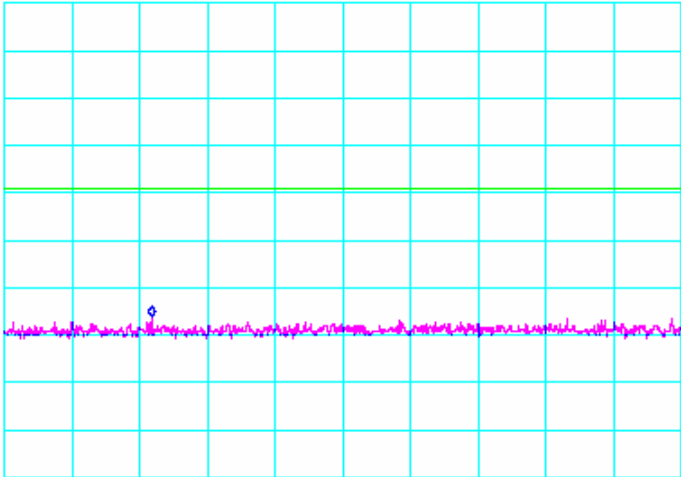
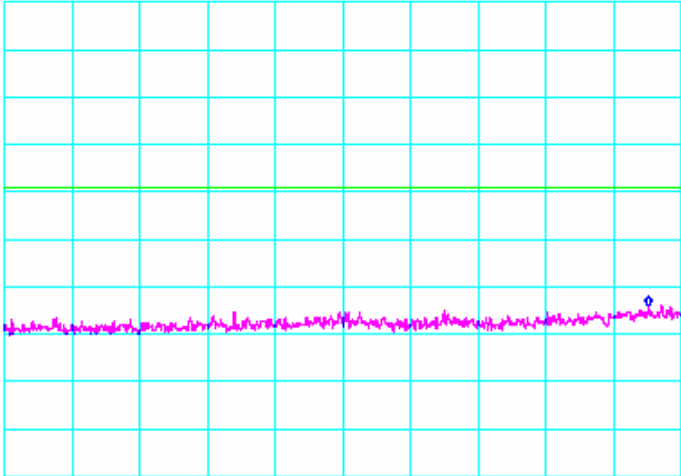


Conducted Out Of Band Emissions (Continued)





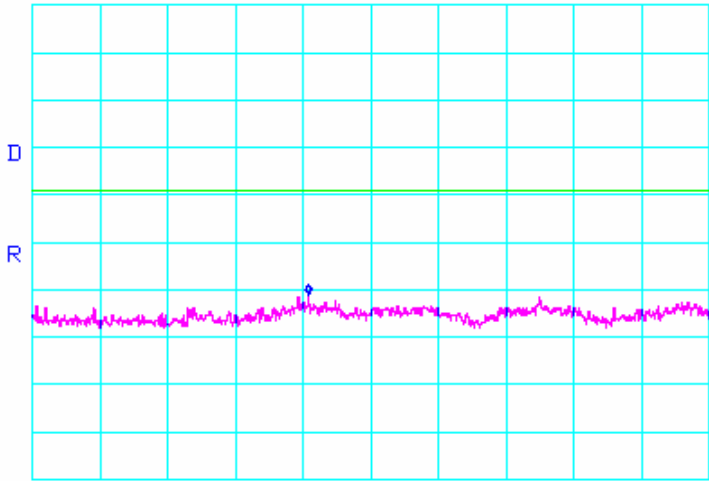
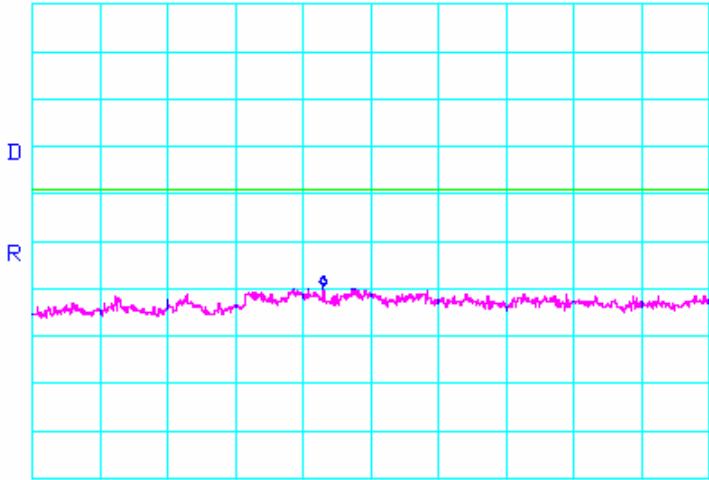
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide			
Test Date	Data	Chain	Test Eng.
07/24/09	5.20 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.00dBm 241.8MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.20 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -52.00dBm 4.949GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



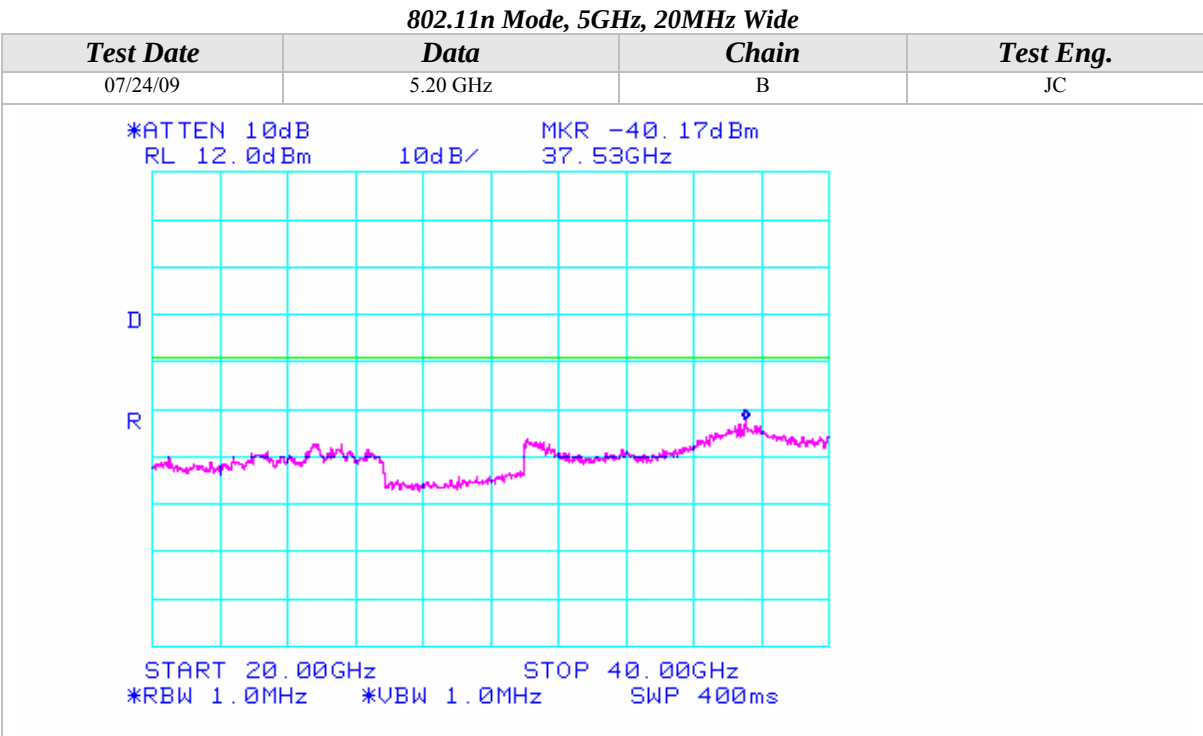
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.20 GHz	B	JC
*ATTEN 10dB MKR -49.00dBm RL 12.0dBm 10dB/ 7.249GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.20 GHz	B	JC
*ATTEN 10dB MKR -47.50dBm RL 12.0dBm 10dB/ 14.30GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



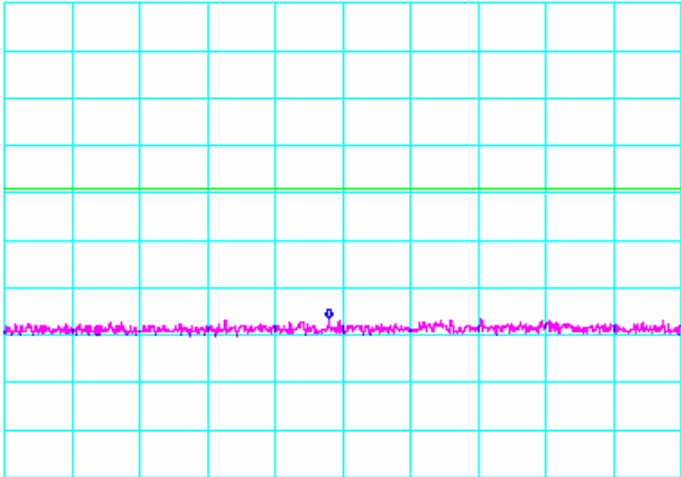
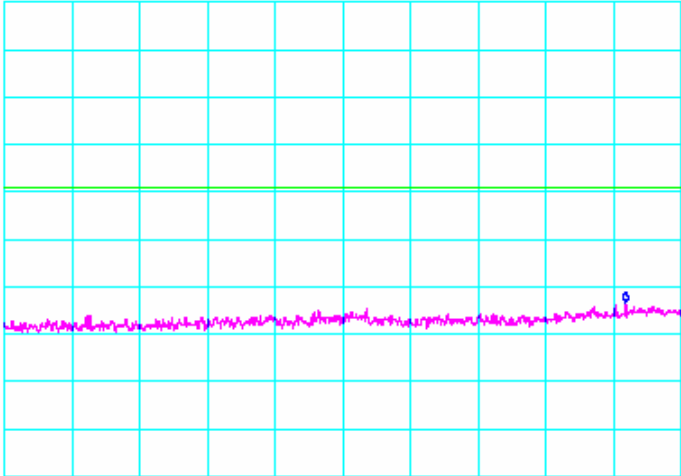
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

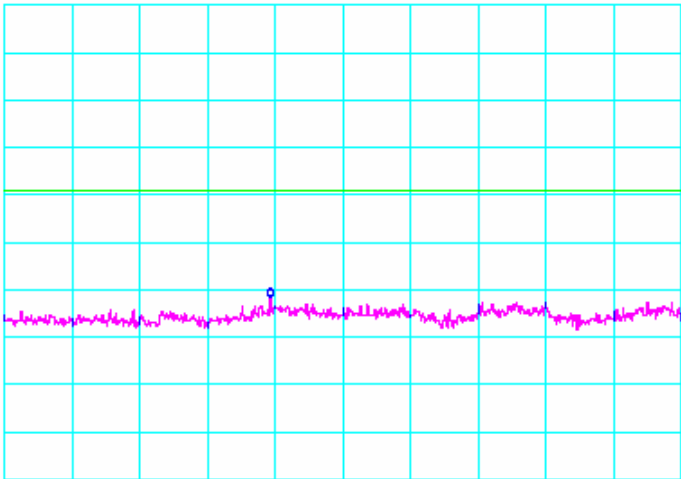
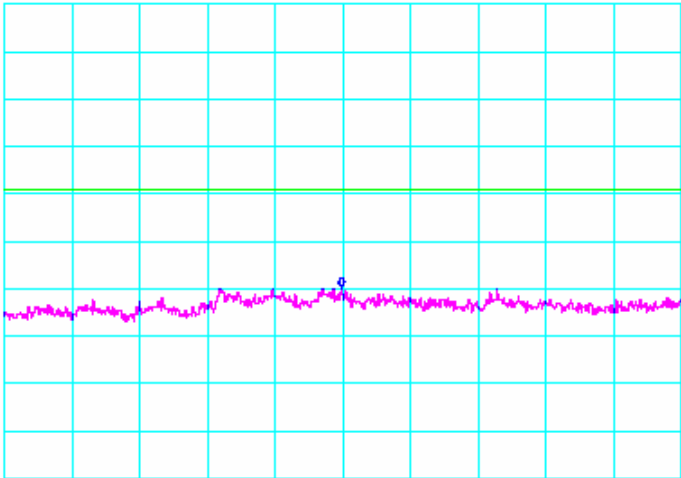
802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.24 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.50dBm 495.6MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.24 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -51.33dBm 4.811GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



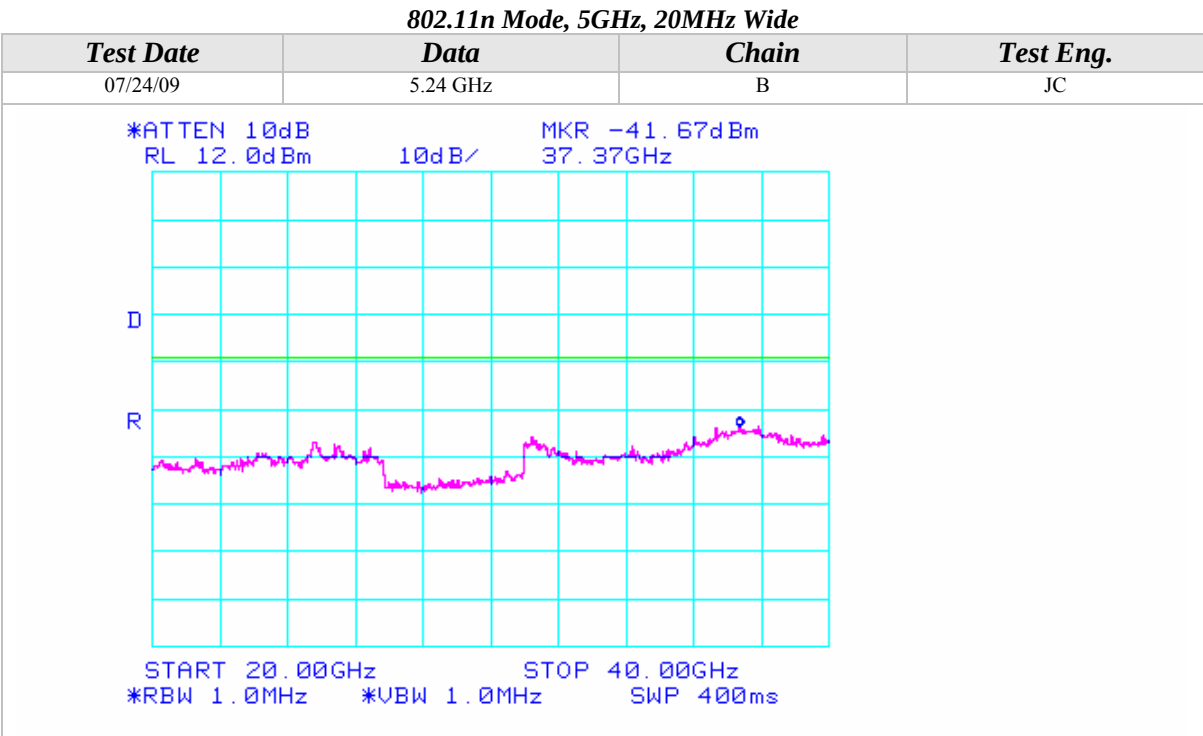
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.24 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.67dBm 7.179GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.24 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.67dBm 14.98GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



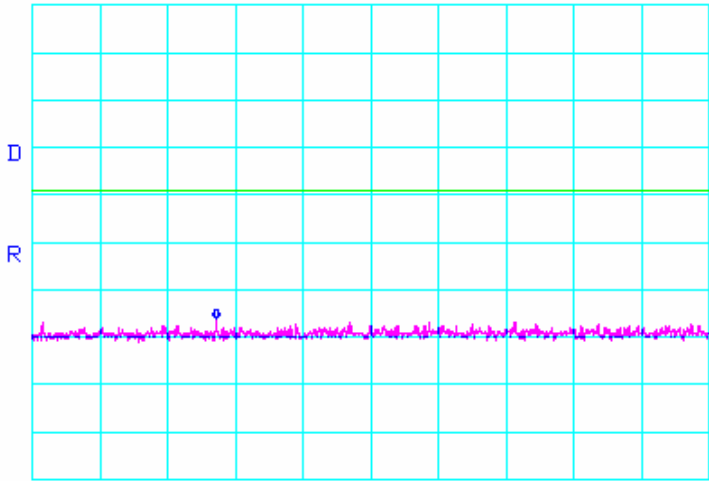
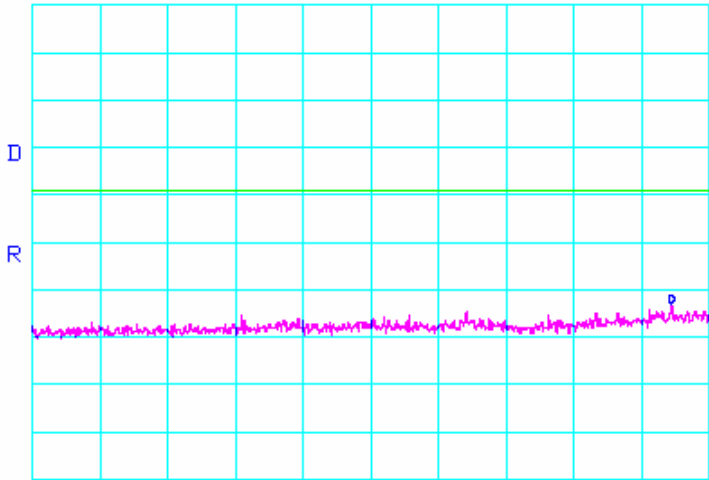
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

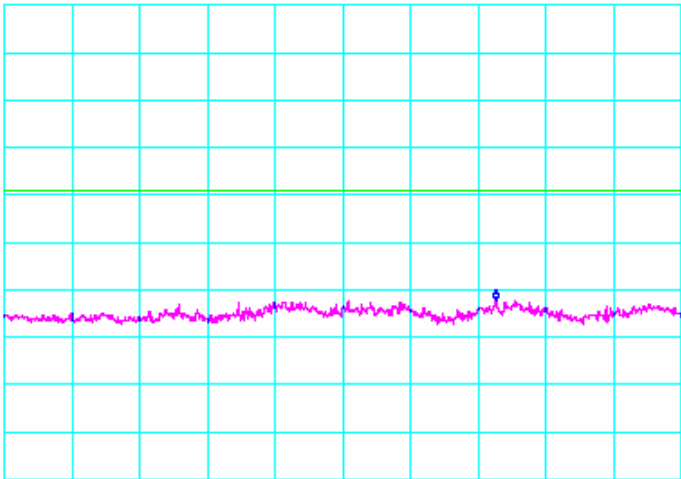
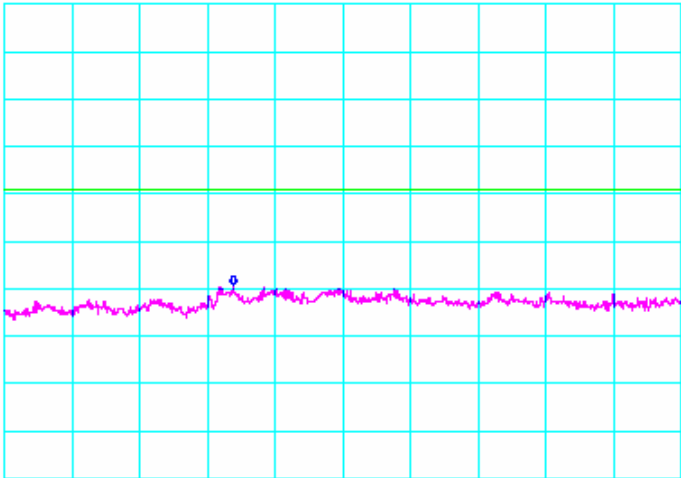
802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	B	JC
*ATTEN 10dB MKR -54.17dBm RL 12.0dBm 10dB/ 293.5MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	B	JC
*ATTEN 10dB MKR -51.00dBm RL 12.0dBm 10dB/ 4.922GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



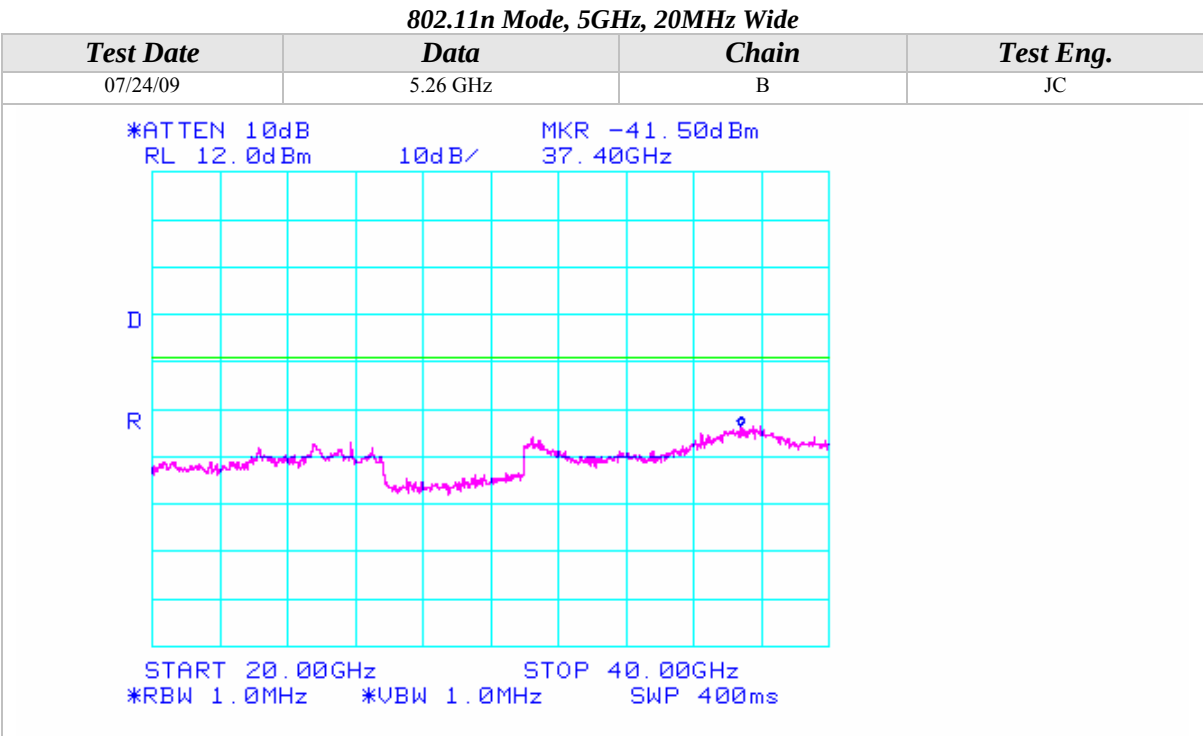
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -50.17dBm 8.729GHz  START 5.350GHz *RBW 1.0MHz STOP 10.000GHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.33dBm 13.38GHz  START 10.00GHz *RBW 1.0MHz STOP 20.00GHz *VBW 1.0MHz SWP 200ms			



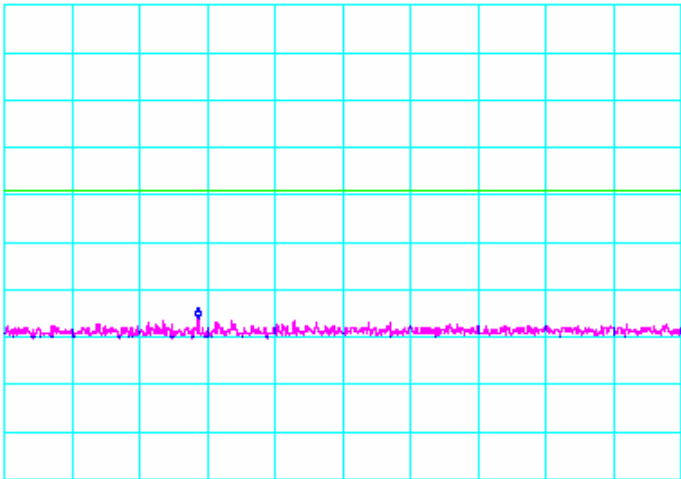
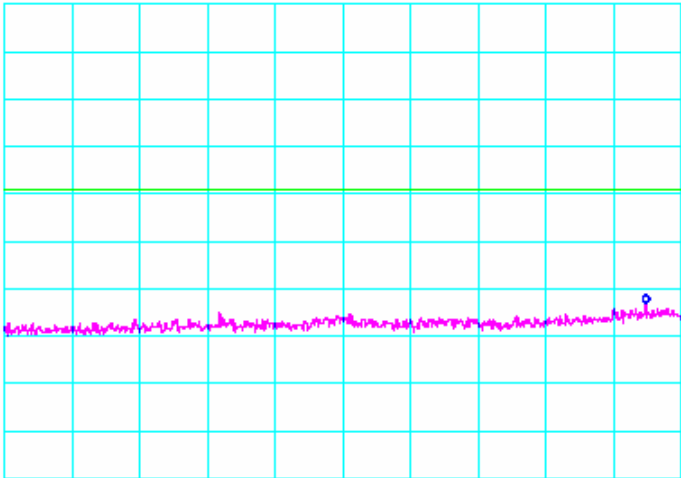
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

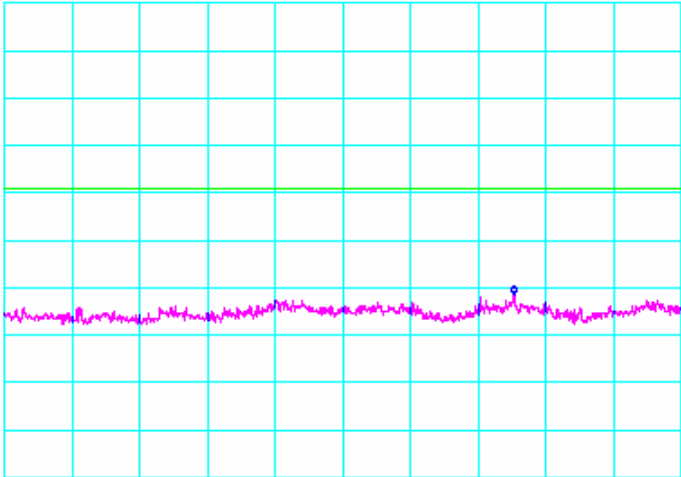
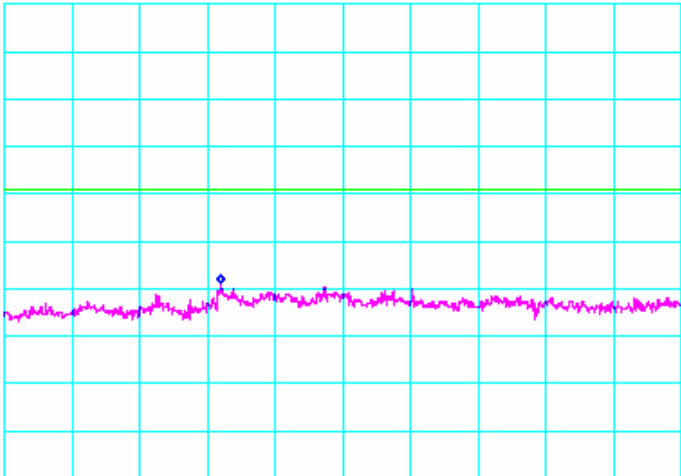
802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.28 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.00dBm 308.1MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.28 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -51.17dBm 4.936GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



Conducted Out Of Band Emissions (Continued)

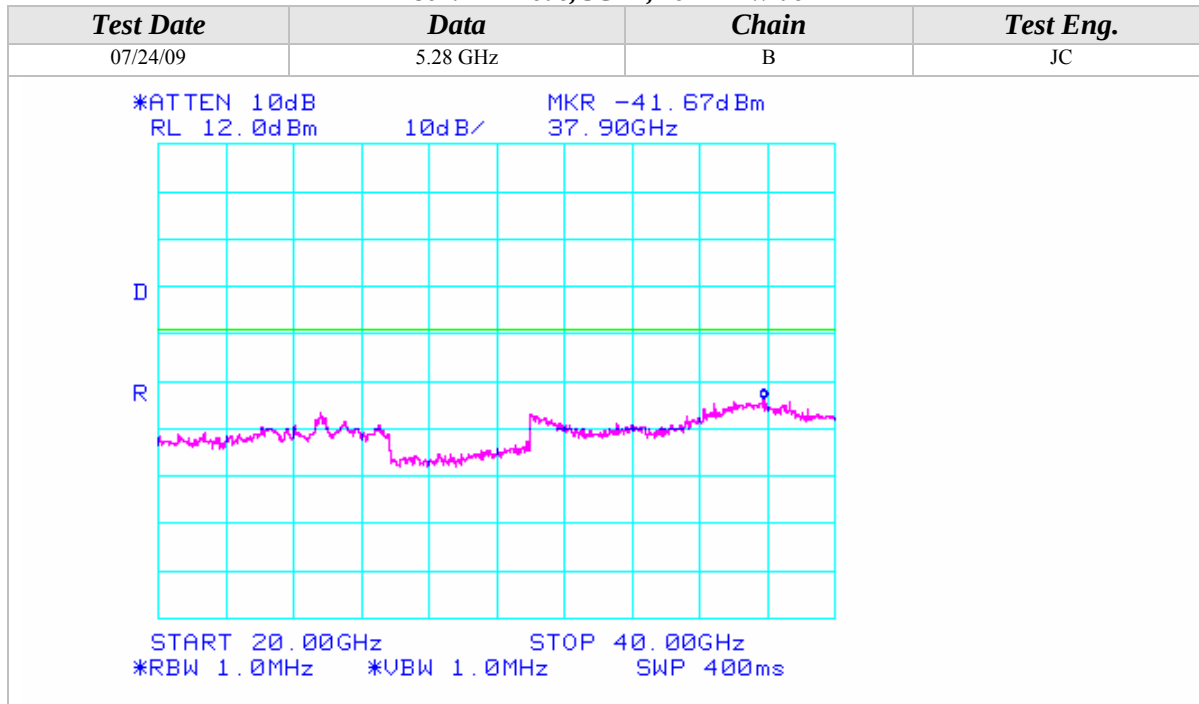
802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.28 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.50dBm 8.853GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.28 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.00dBm 13.20GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



Conducted Out Of Band Emissions (Continued)

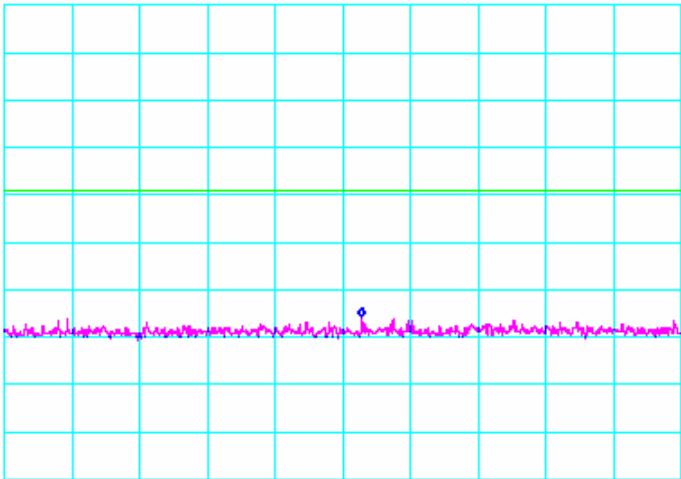
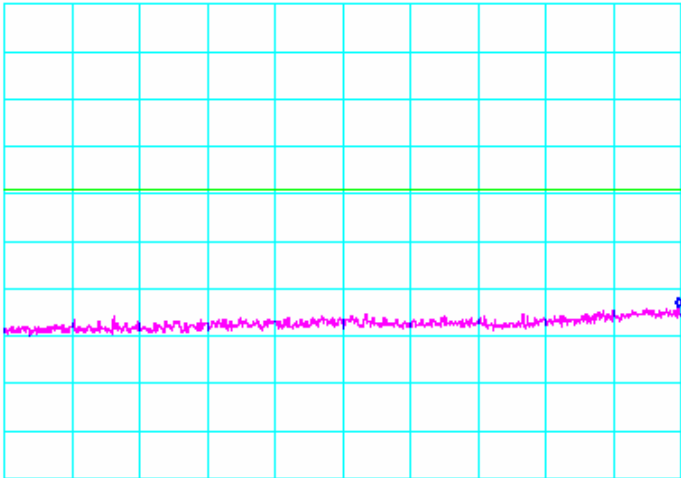
802.11n Mode, 5GHz, 20MHz Wide





Conducted Out Of Band Emissions (Continued)

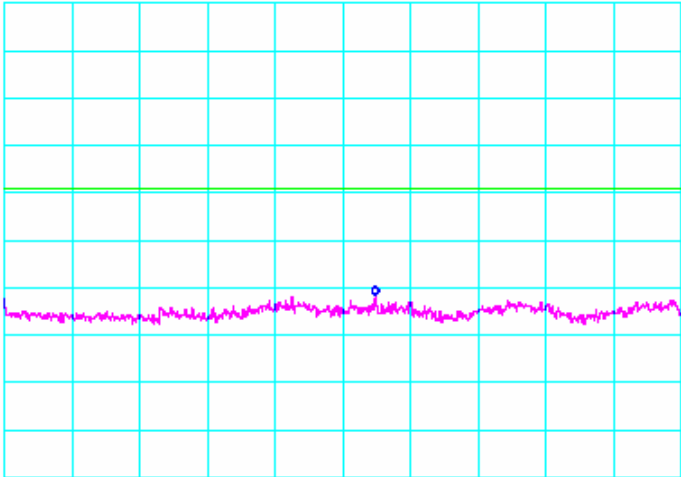
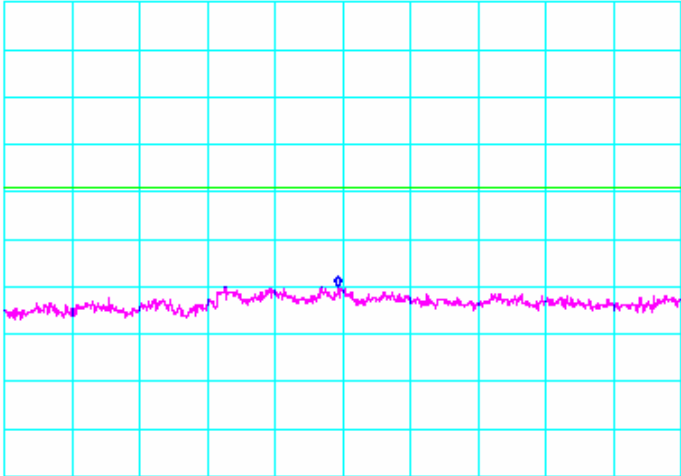
802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.32 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -53.83dBm 542.5MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.32 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -52.00dBm 5.136GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



Conducted Out Of Band Emissions (Continued)

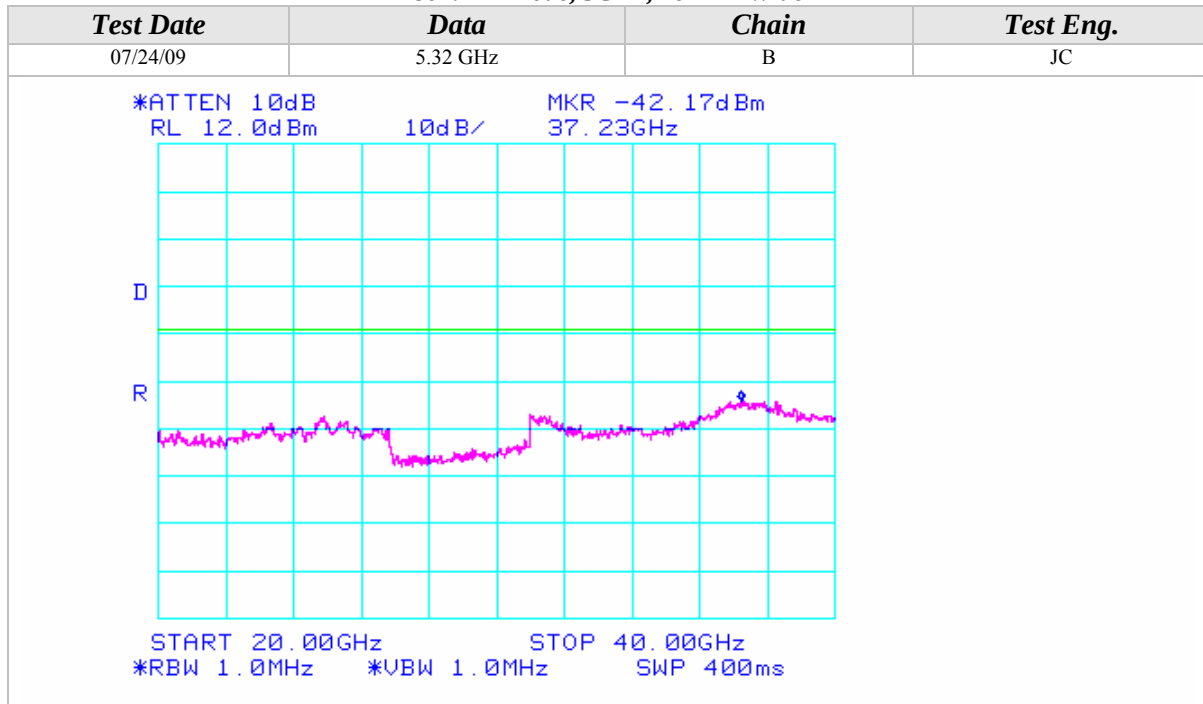
802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.32 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.67dBm 7.900GHz  START 5.350GHz *RBW 1.0MHz STOP 10.000GHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.32 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.83dBm 14.93GHz  START 10.00GHz *RBW 1.0MHz STOP 20.00GHz *VBW 1.0MHz SWP 200ms			



Conducted Out Of Band Emissions (Continued)

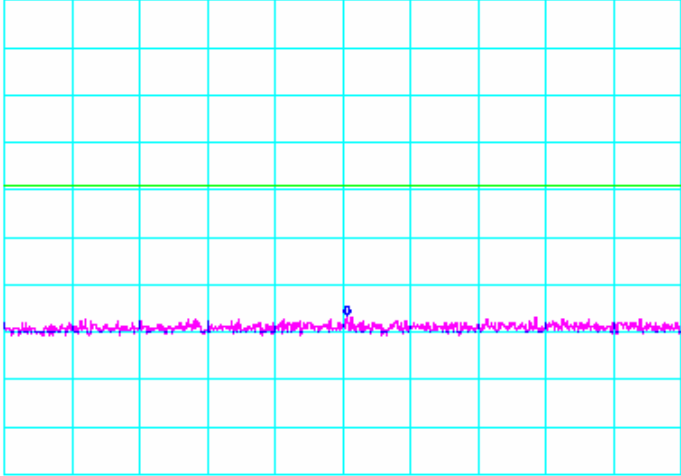
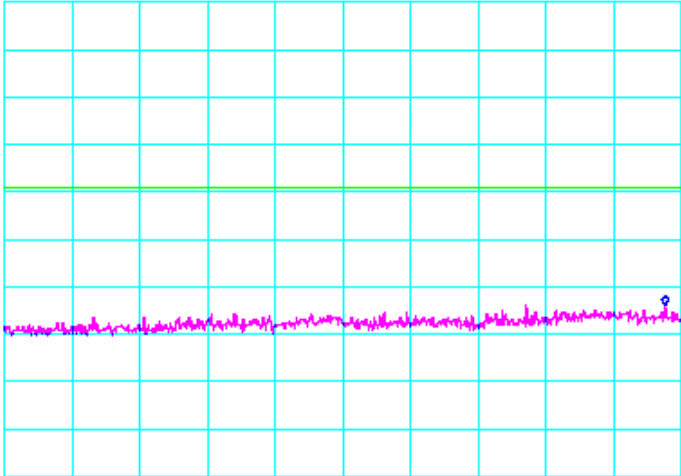
802.11n Mode, 5GHz, 20MHz Wide





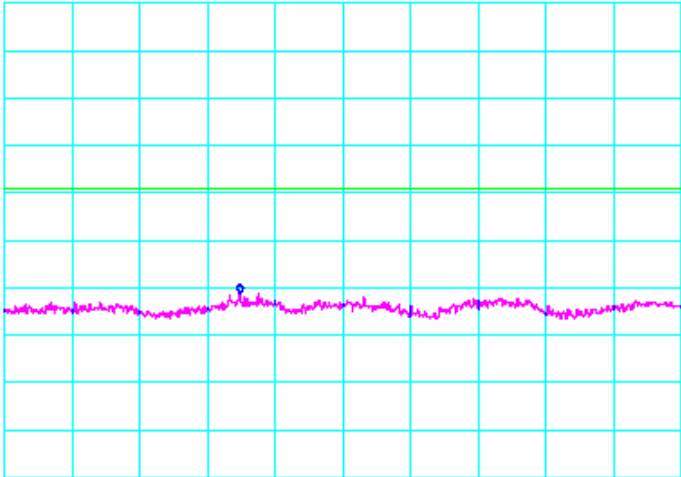
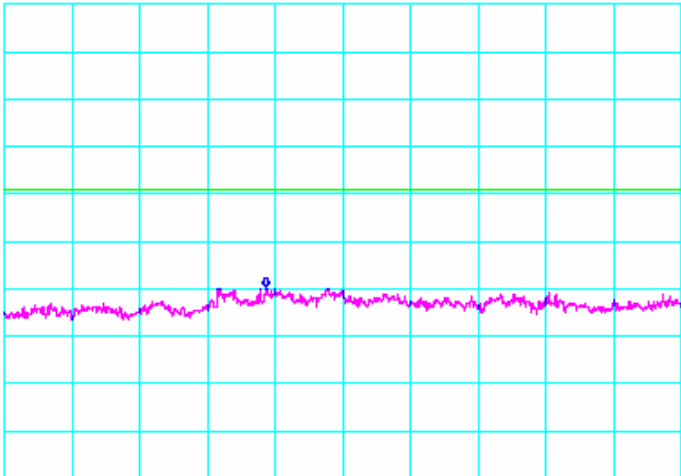
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.50 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.50dBm 521.5MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.50 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -51.83dBm 5.356GHz  START 1.000GHz STOP 5.460GHz *RBW 1.0MHz *VBW 1.0MHz SWP 90.0ms			

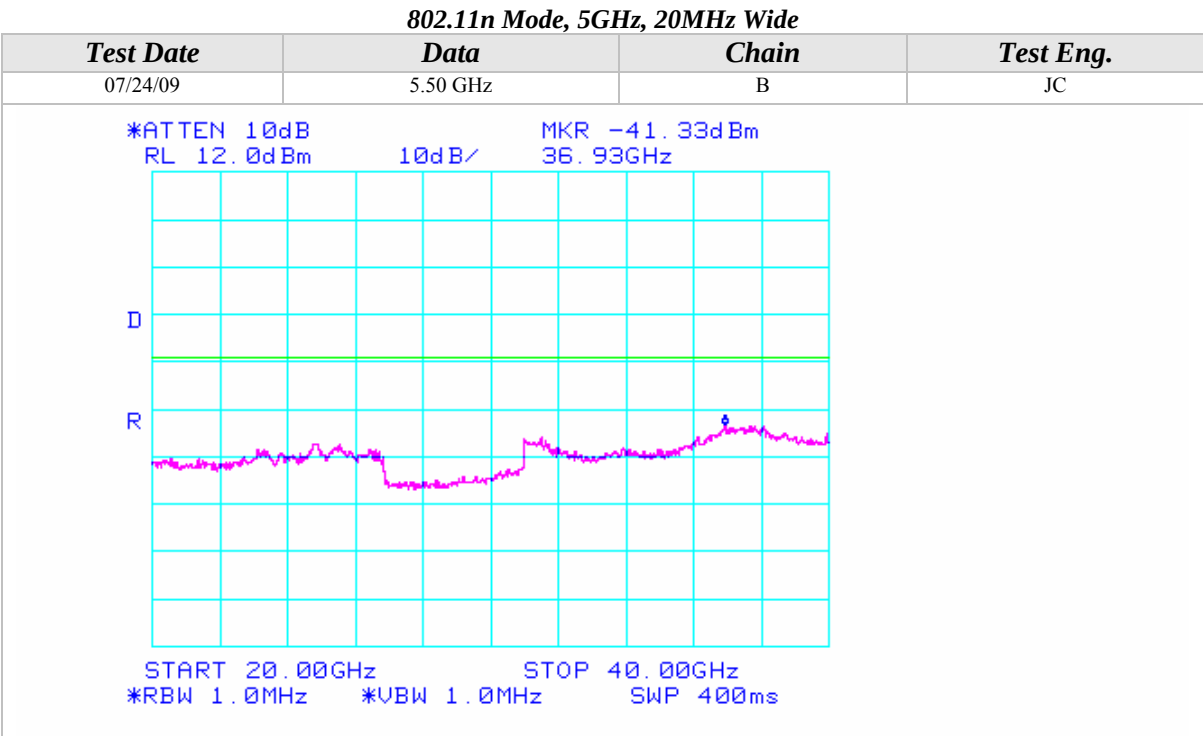


Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide			
Test Date	Data	Chain	Test Eng.
07/24/09	5.50 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.17dBm 7.214GHz  START 5.725GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.50 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.67dBm 13.87GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



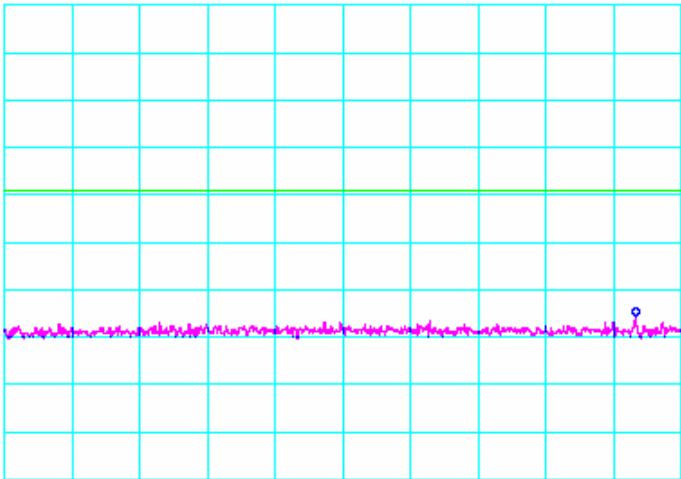
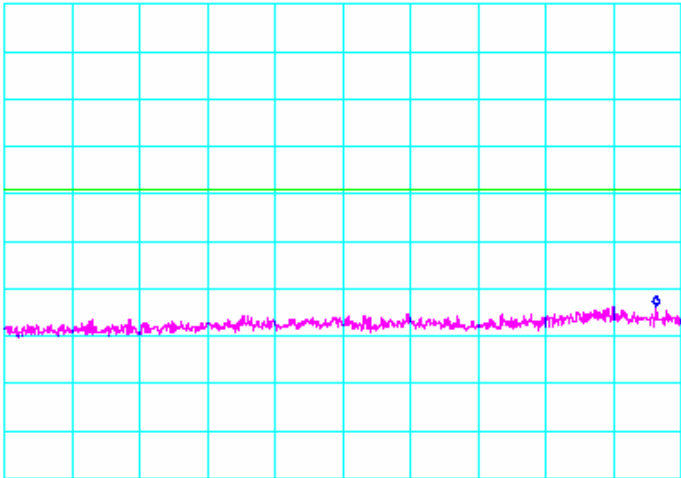
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

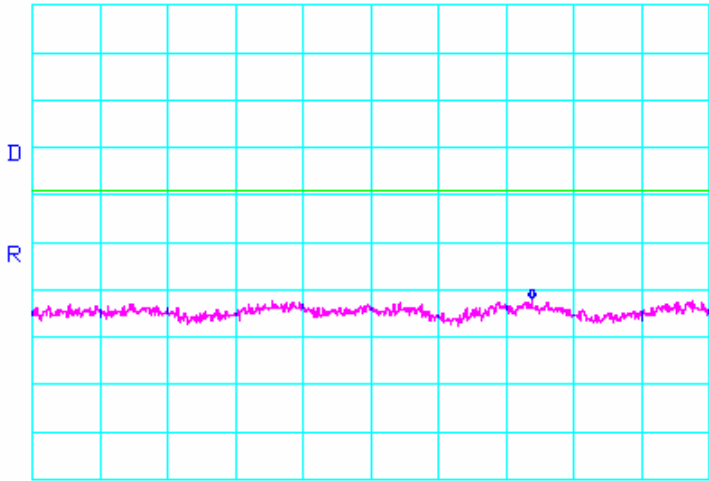
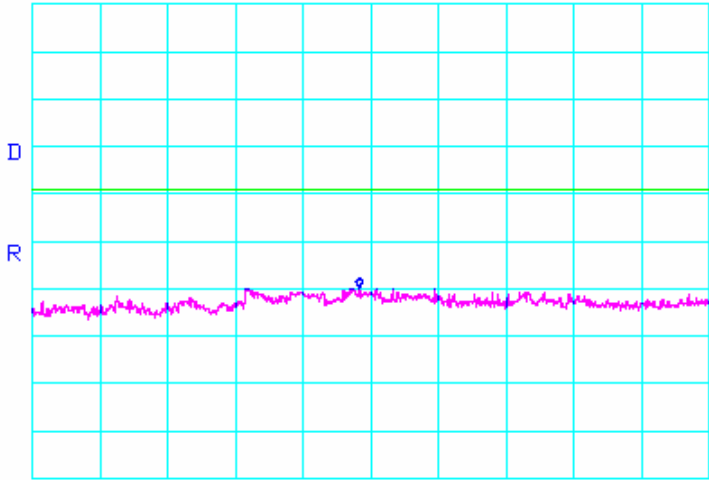
802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.60 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -53.67dBm 935.3MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.60 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -51.67dBm 5.296GHz  START 1.000GHz STOP 5.460GHz *RBW 1.0MHz *VBW 1.0MHz SWP 90.0ms			



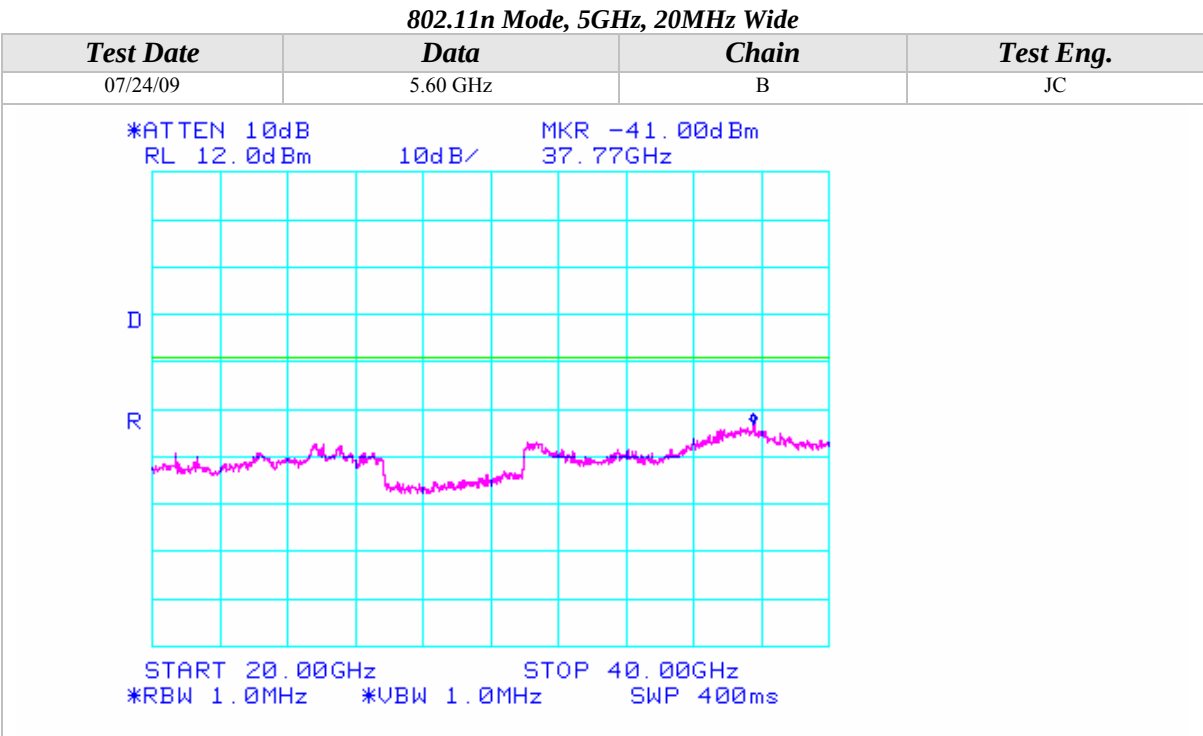
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.60 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -50.00dBm 8.881GHz  START 5.725GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.60 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.67dBm 14.83GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			

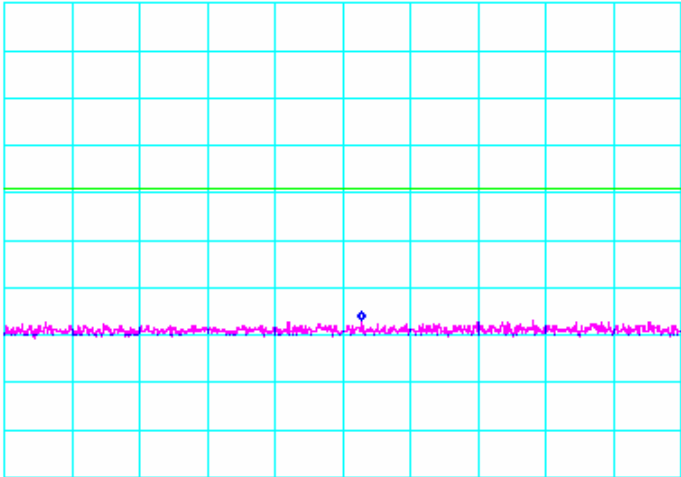
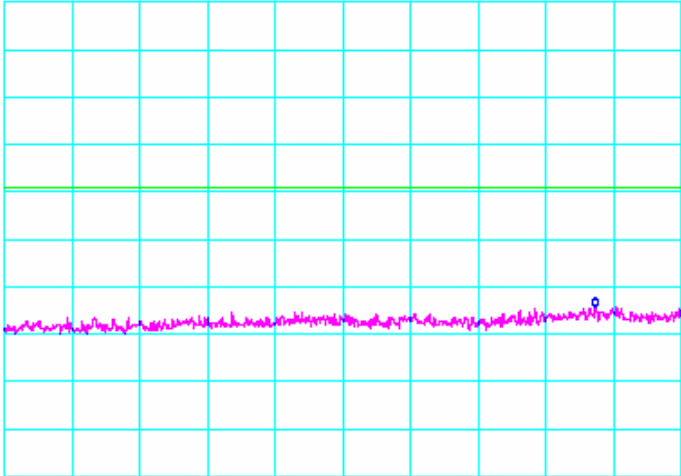


Conducted Out Of Band Emissions (Continued)





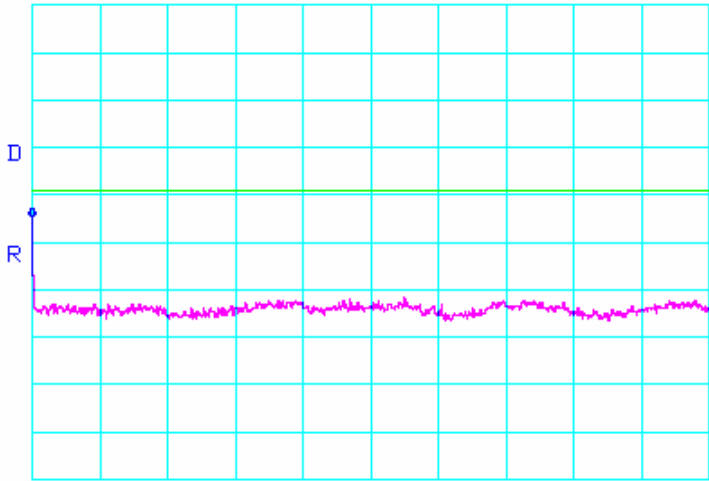
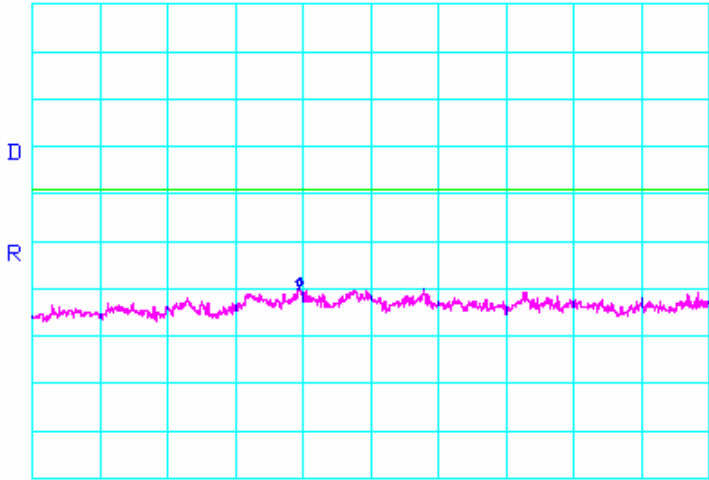
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide			
Test Date	Data	Chain	Test Eng.
07/24/09	5.70 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -55.00dBm 542.5MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.70 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -52.33dBm 4.895GHz  START 1.000GHz STOP 5.460GHz *RBW 1.0MHz *VBW 1.0MHz SWP 90.0ms			



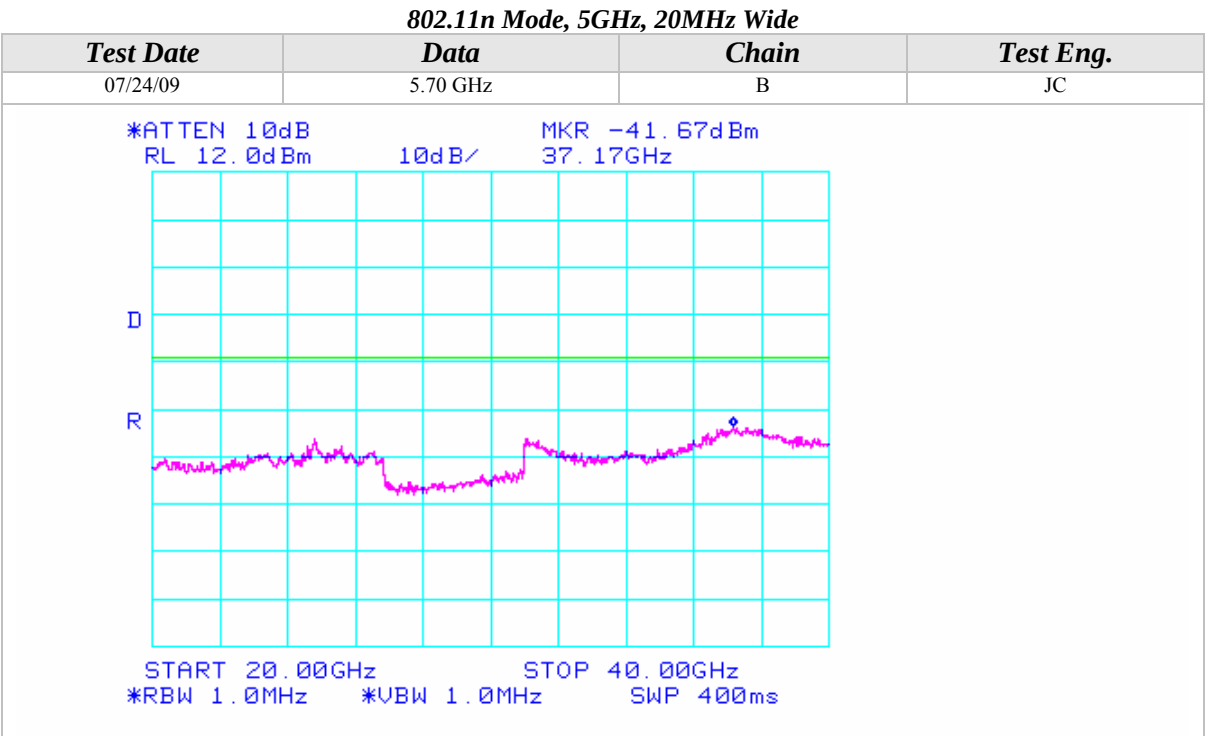
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.70 GHz	B	JC
*ATTEN 10dB MKR -32.83dBm RL 12.0dBm 10dB/ 5.725GHz  START 5.725GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.70 GHz	B	JC
*ATTEN 10dB MKR -47.67dBm RL 12.0dBm 10dB/ 13.95GHz  START 10.000GHz STOP 20.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



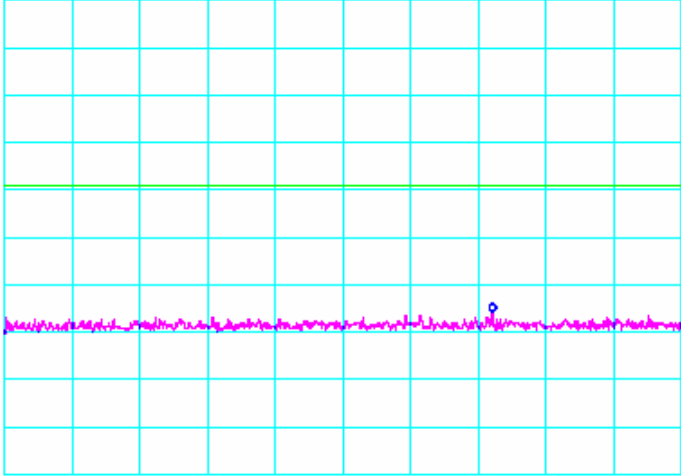
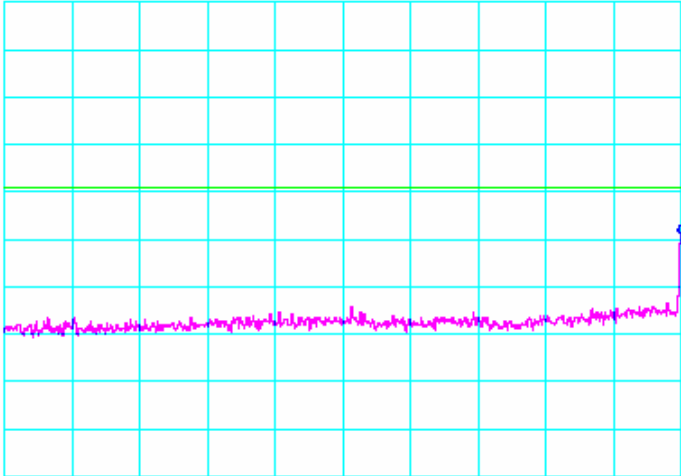
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

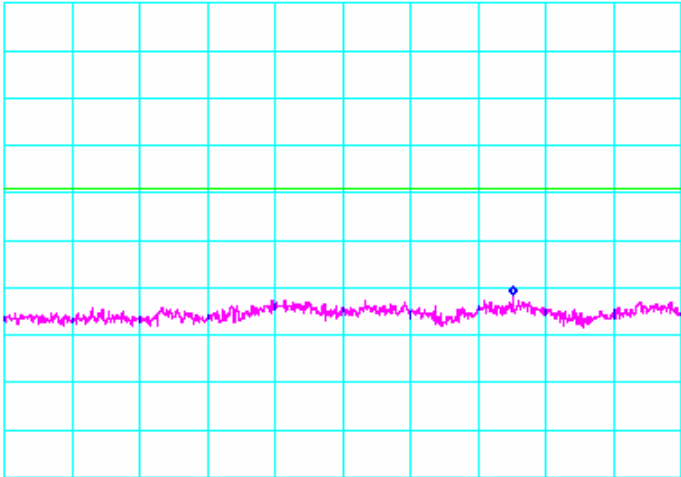
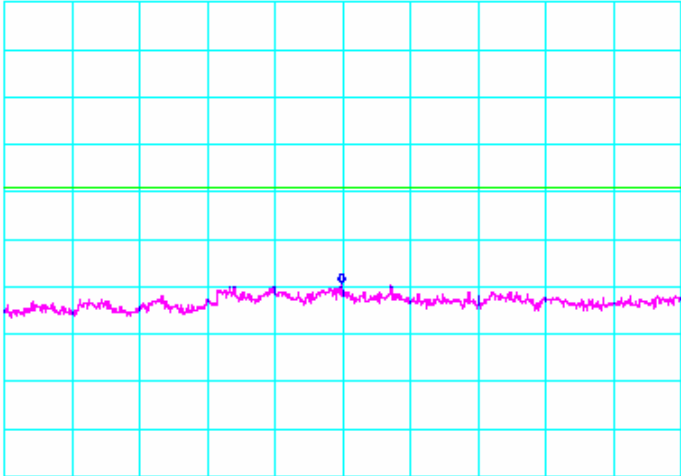
802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.19 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -53.83dBm 730.0MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.19 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -37.00dBm 5.150GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



Conducted Out Of Band Emissions (Continued)

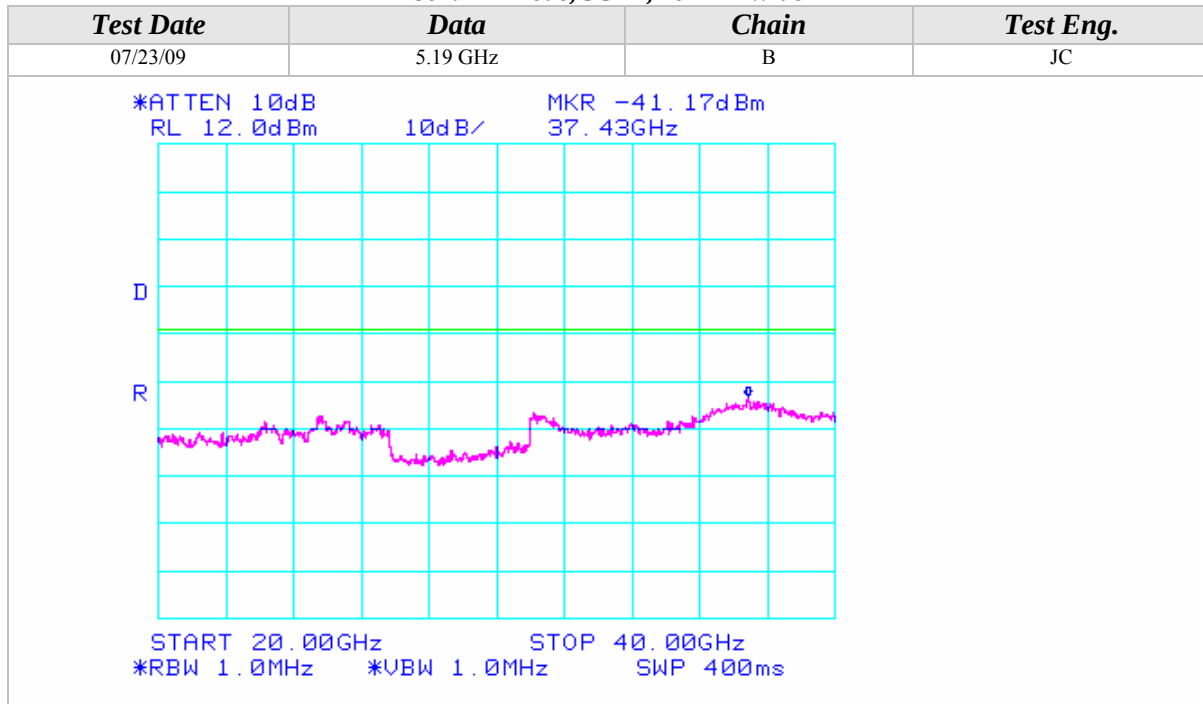
802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.19 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.67dBm 8.845GHz  START 5.350GHz *RBW 1.0MHz STOP 10.000GHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.19 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.33dBm 14.98GHz  START 10.00GHz *RBW 1.0MHz STOP 20.00GHz *VBW 1.0MHz SWP 200ms			



Conducted Out Of Band Emissions (Continued)

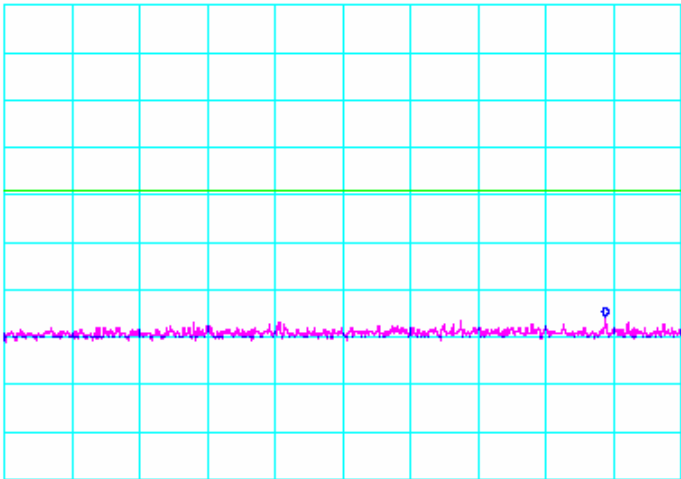
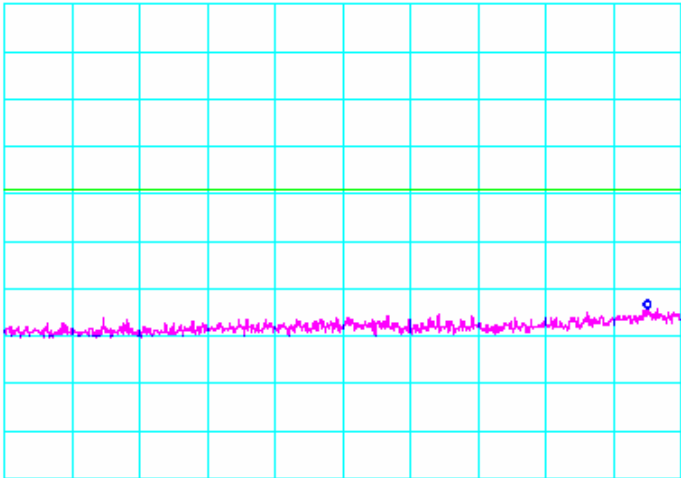
802.11n Mode, 5GHz, 40MHz Wide





Conducted Out Of Band Emissions (Continued)

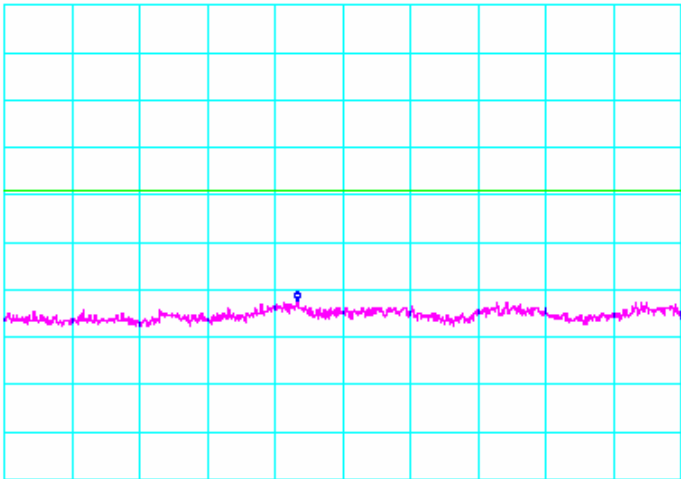
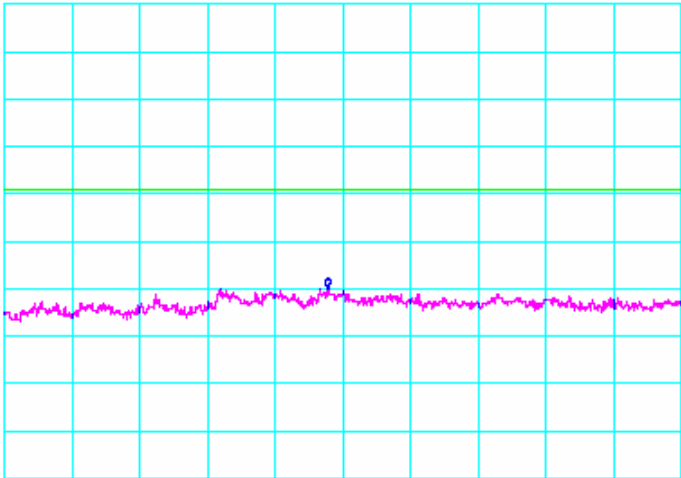
802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.23 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -53.67dBm 891.7MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.23 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -52.33dBm 4.943GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



Conducted Out Of Band Emissions (Continued)

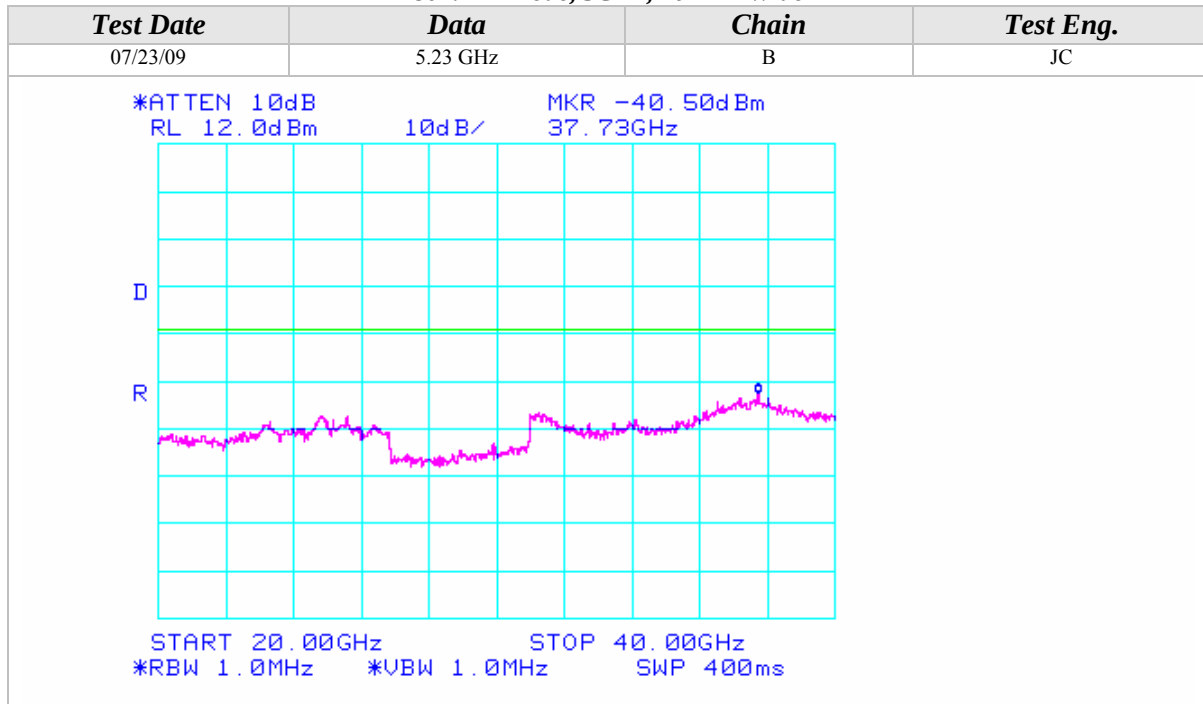
802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.23 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -50.33dBm 7.365GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.23 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.67dBm 14.78GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



Conducted Out Of Band Emissions (Continued)

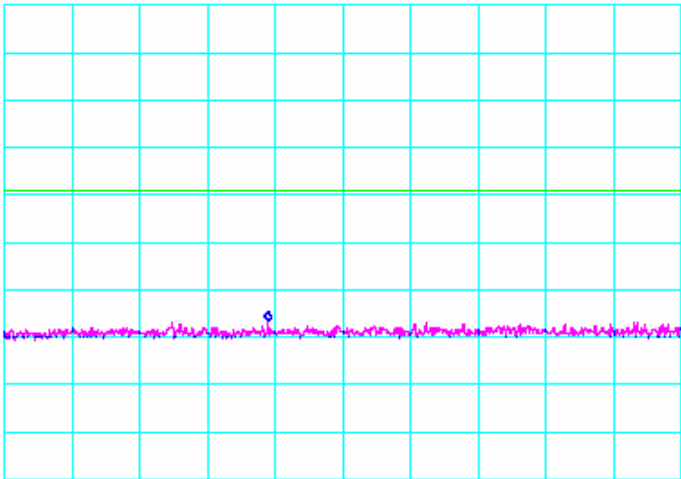
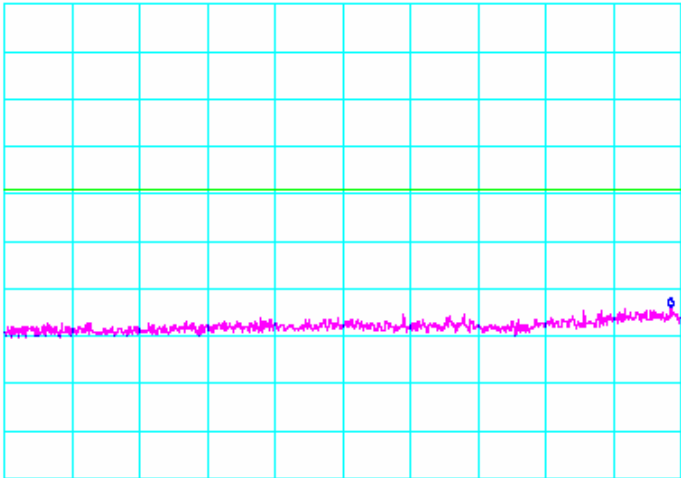
802.11n Mode, 5GHz, 40MHz Wide





Conducted Out Of Band Emissions (Continued)

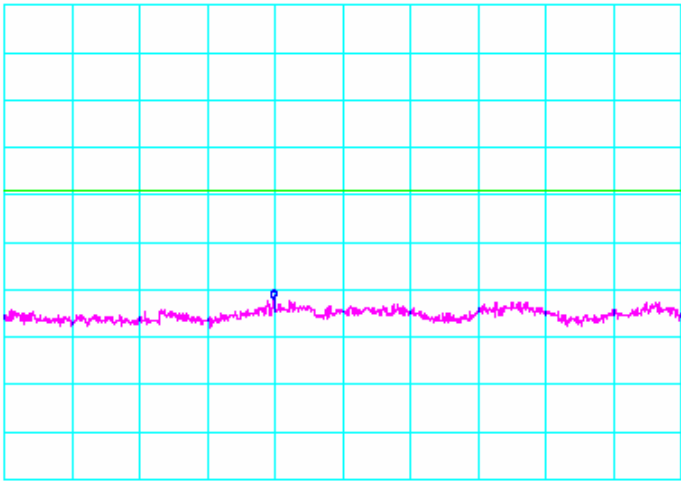
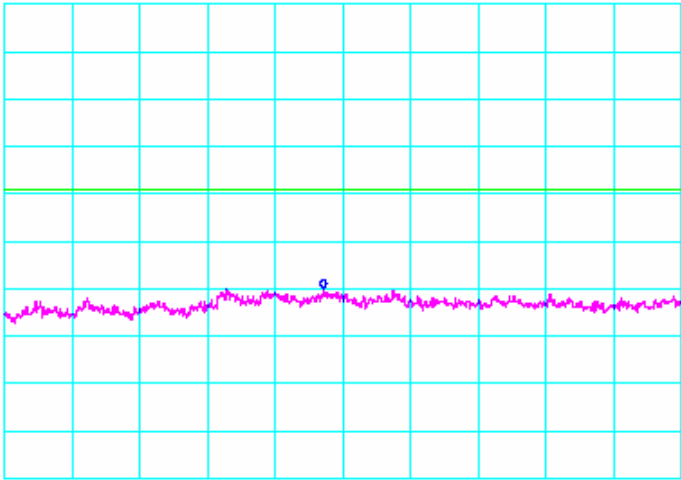
802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.27 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.67dBm 408.3MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.27 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -52.00dBm 5.088GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



Conducted Out Of Band Emissions (Continued)

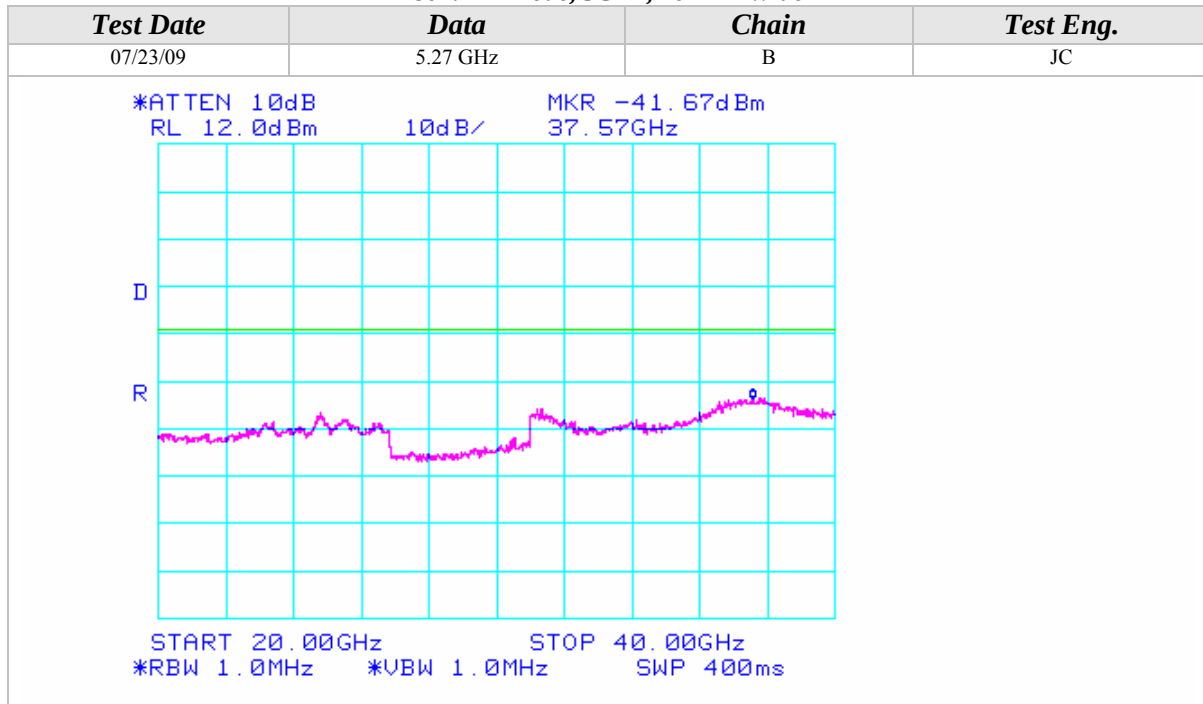
802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.27 GHz	B	JC
*ATTEN 10dB MKR -50.00dBm RL 12.0dBm 10dB/ 7.202GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.27 GHz	B	JC
*ATTEN 10dB MKR -48.00dBm RL 12.0dBm 10dB/ 14.72GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



Conducted Out Of Band Emissions (Continued)

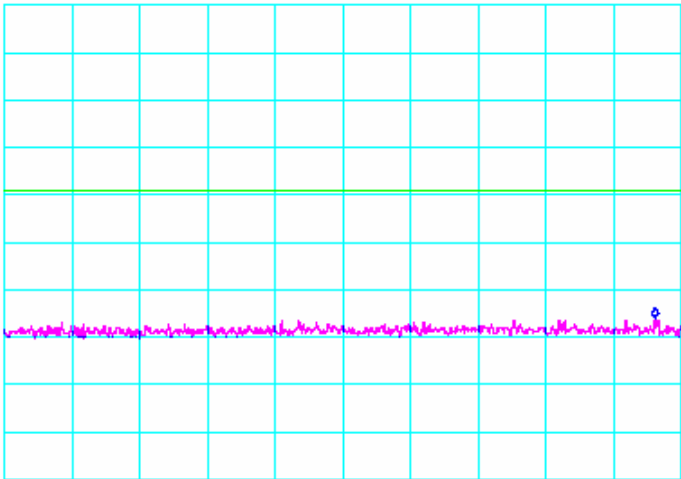
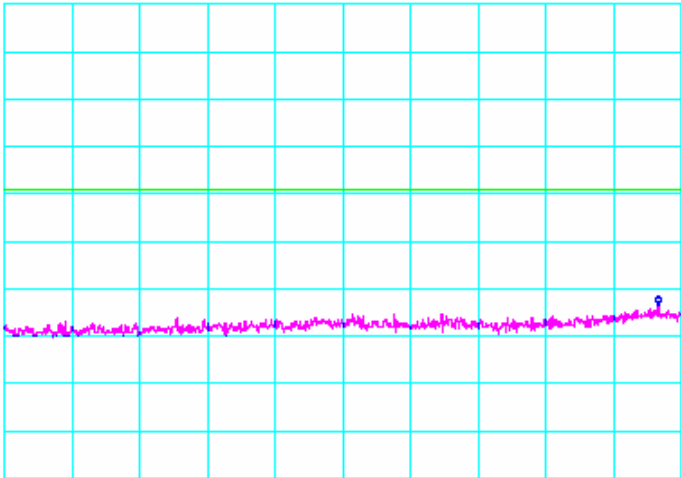
802.11n Mode, 5GHz, 40MHz Wide





Conducted Out Of Band Emissions (Continued)

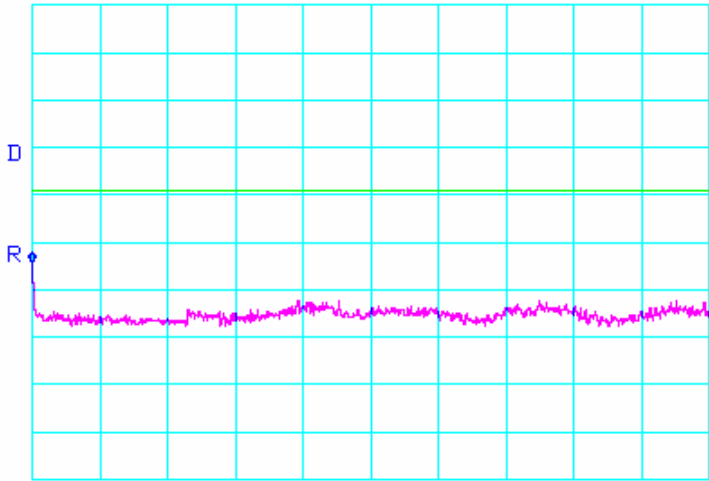
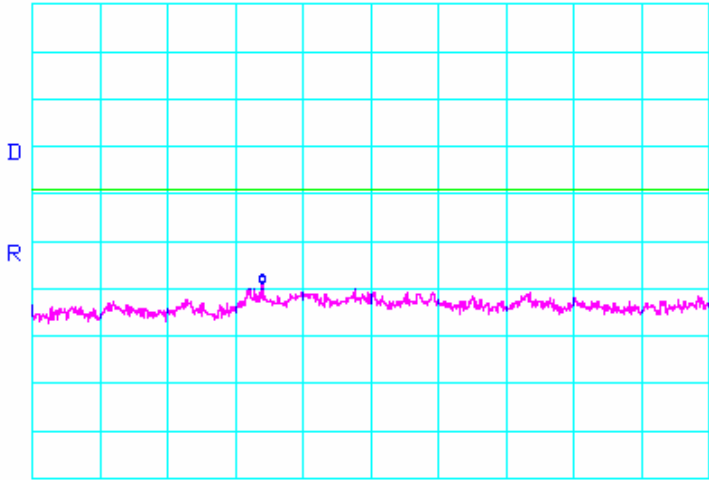
802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.31 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.00dBm 962.8MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.31 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -51.50dBm 5.012GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



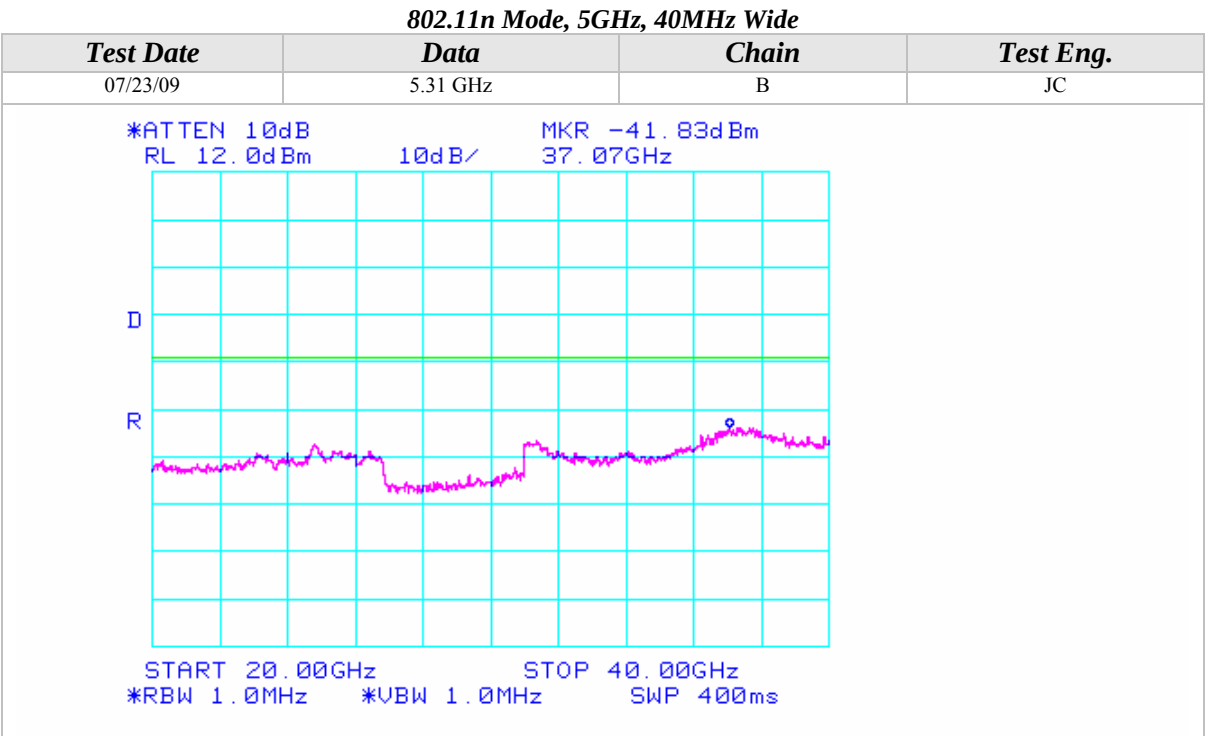
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.31 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -42.17dBm 5.350GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.31 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.00dBm 13.40GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			

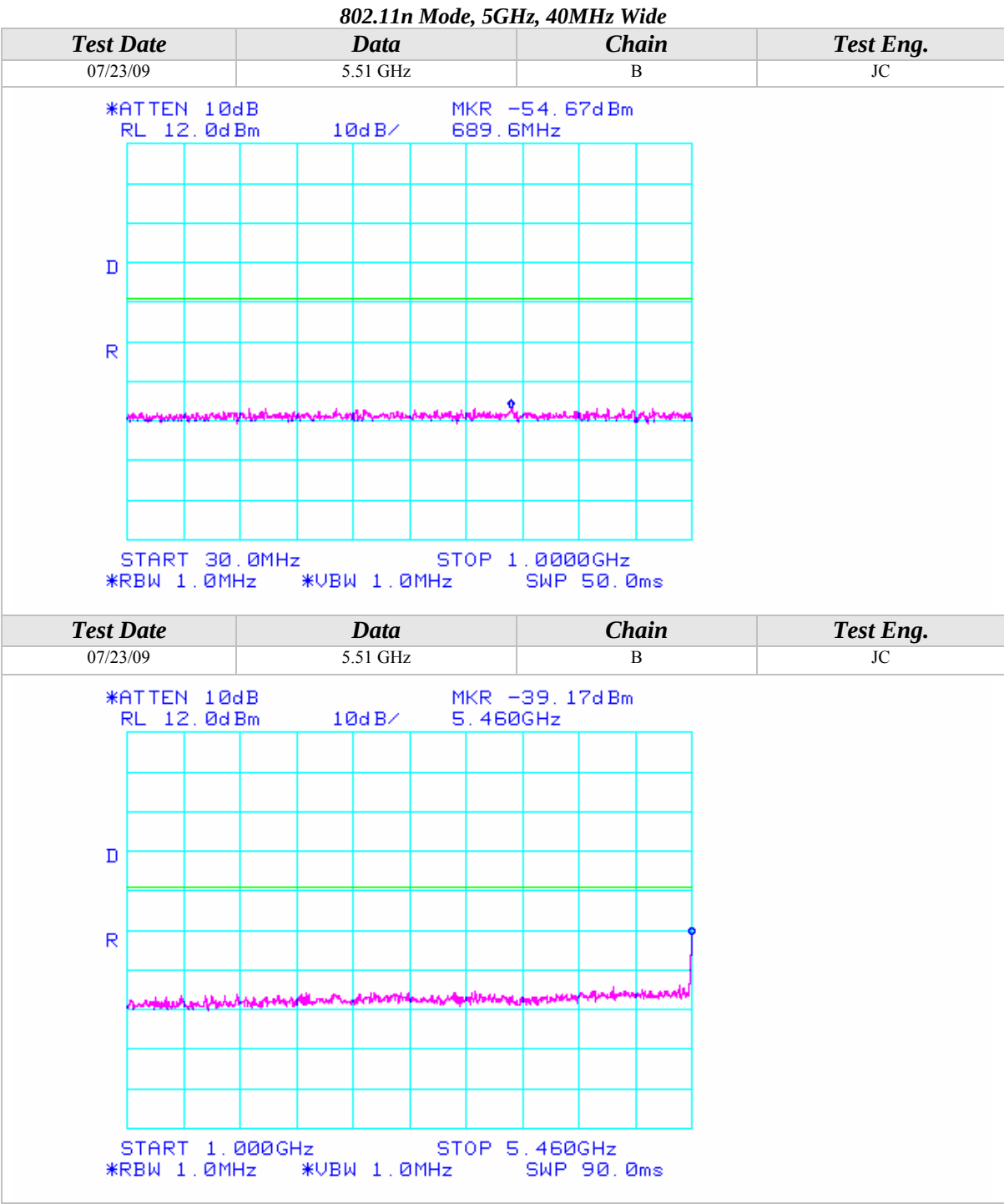


Conducted Out Of Band Emissions (Continued)





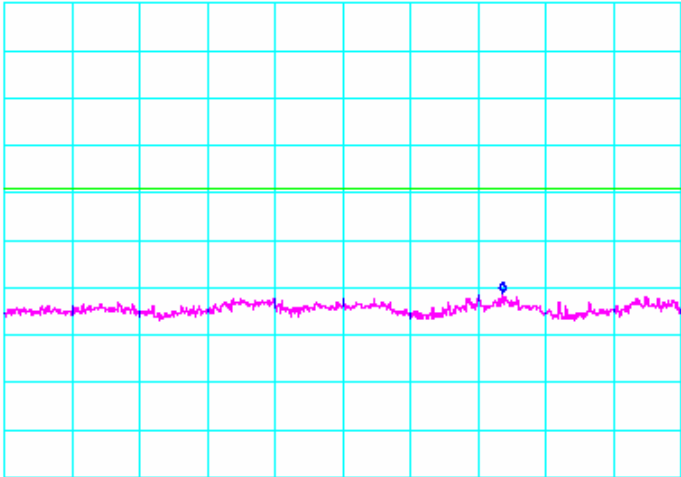
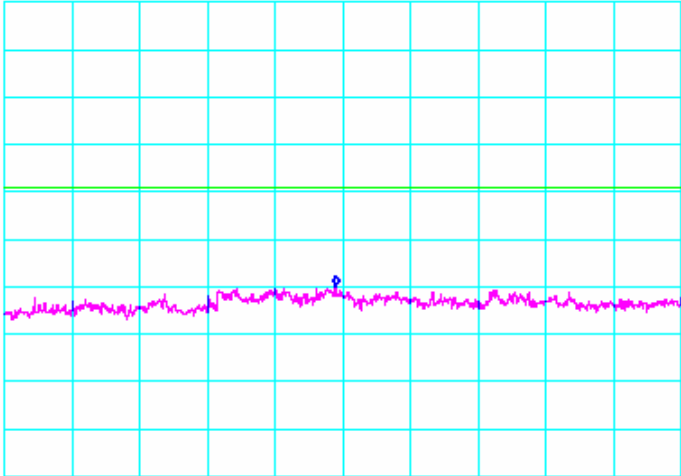
Conducted Out Of Band Emissions (Continued)





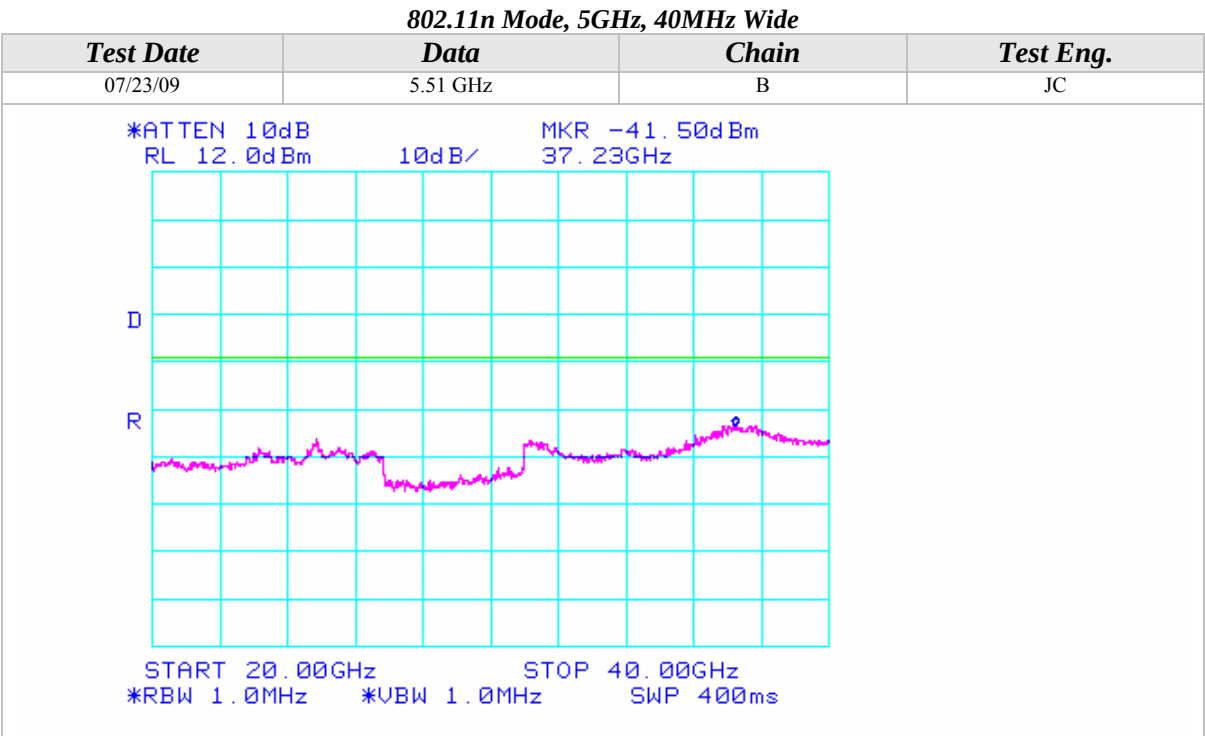
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.51 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.00dBm 8.874GHz  START 5.725GHz *RBW 1.0MHz STOP 10.000GHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.51 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.83dBm 14.90GHz  START 10.00GHz *RBW 1.0MHz STOP 20.00GHz *VBW 1.0MHz SWP 200ms			



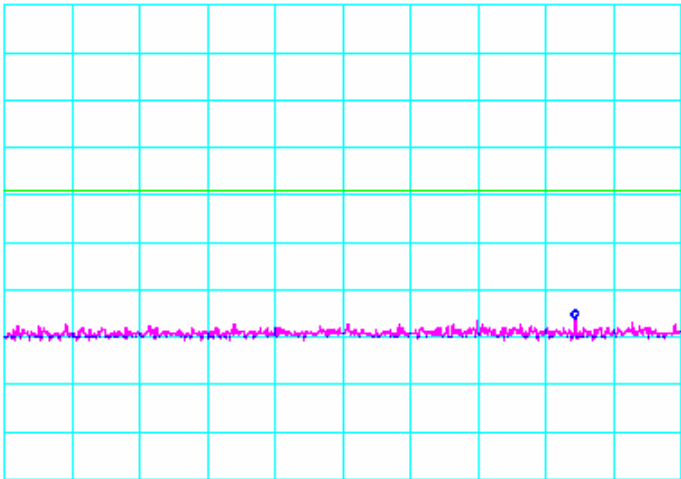
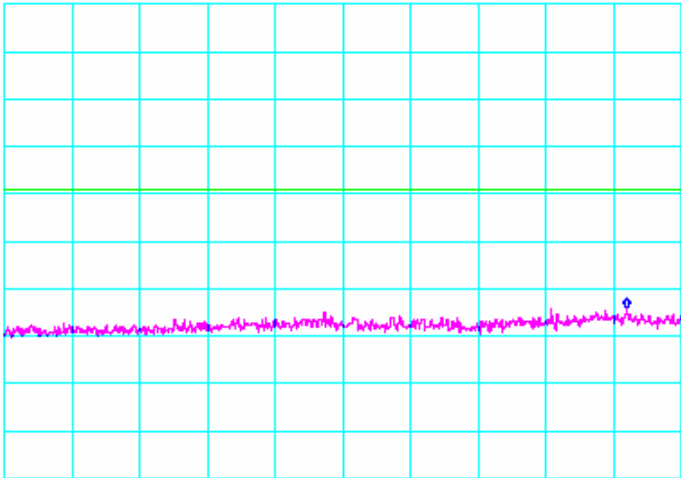
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

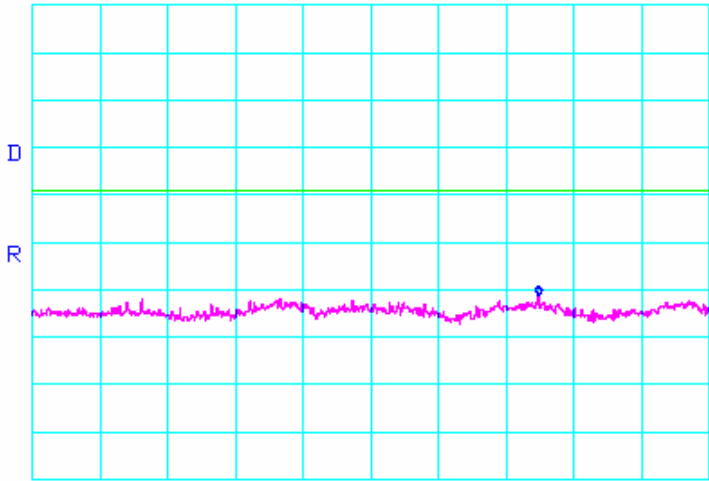
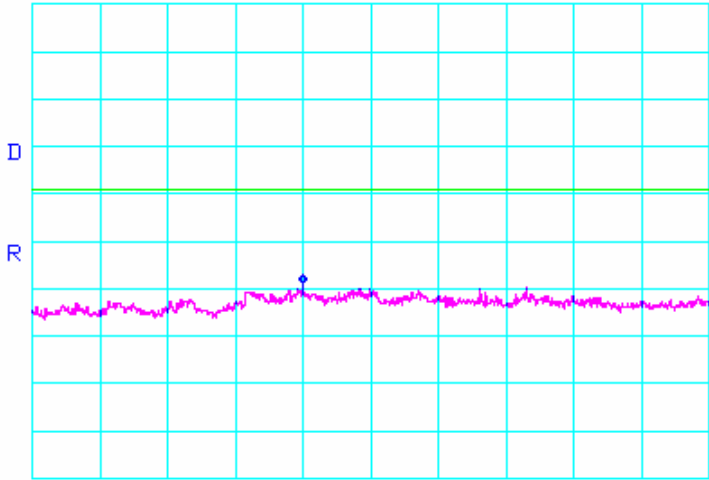
802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.59 GHz	B	JC
*ATTEN 10dB MKR -54.17dBm RL 12.0dBm 10dB/ 848.0MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.59 GHz	B	JC
*ATTEN 10dB MKR -52.00dBm RL 12.0dBm 10dB/ 5.103GHz  START 1.000GHz STOP 5.460GHz *RBW 1.0MHz *VBW 1.0MHz SWP 90.0ms			



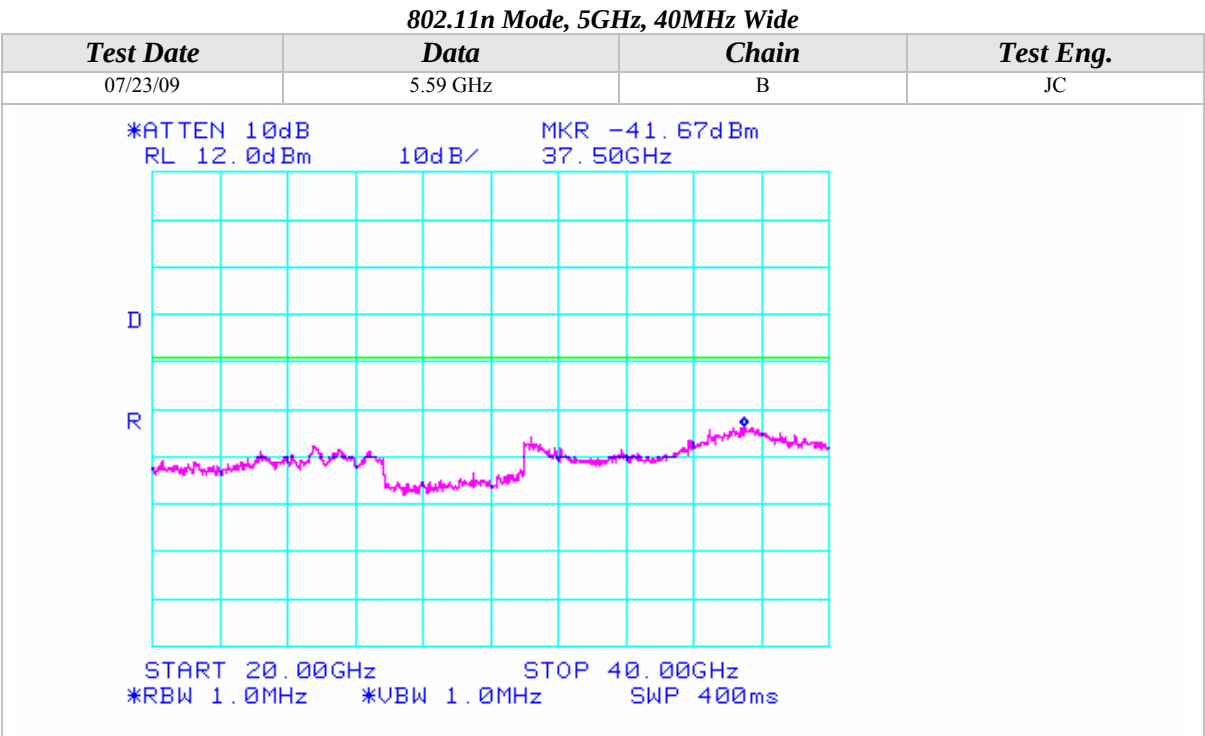
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.59 GHz	B	JC
*ATTEN 10dB MKR -49.17dBm RL 12.0dBm 10dB/ 8.924GHz  START 5.725GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.59 GHz	B	JC
*ATTEN 10dB MKR -47.00dBm RL 12.0dBm 10dB/ 14.00GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



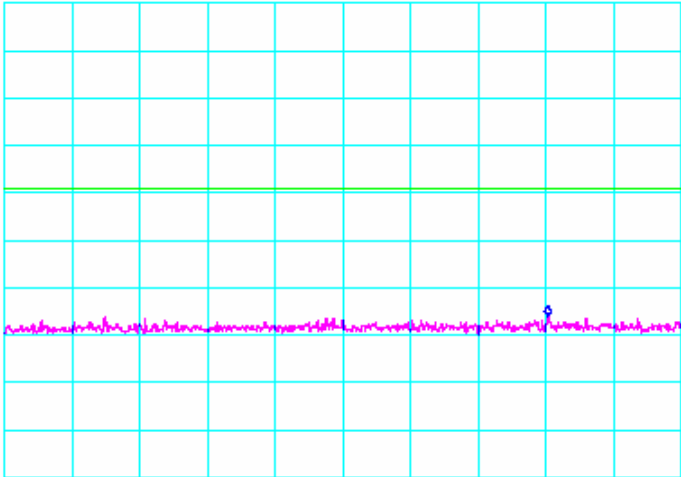
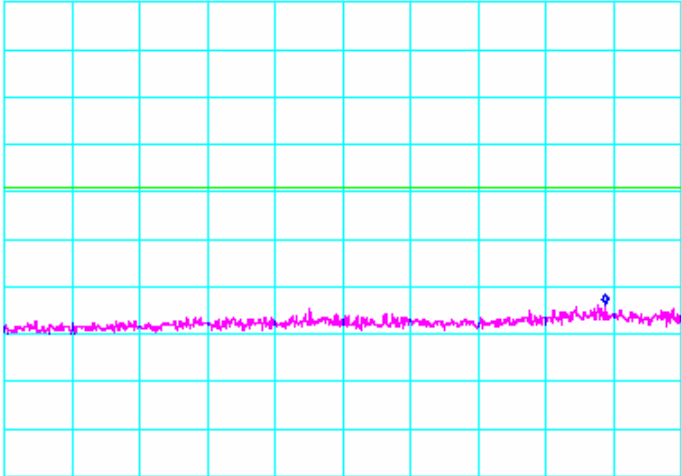
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

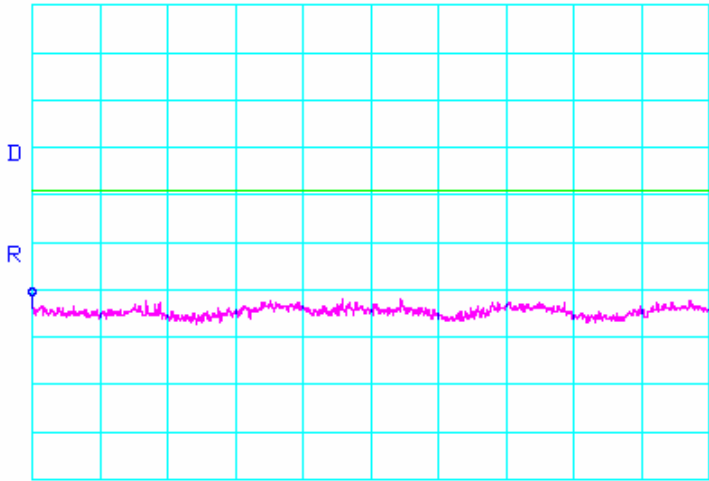
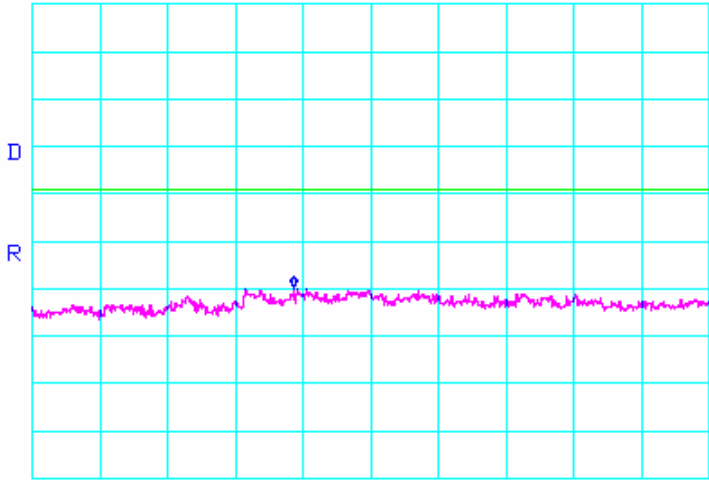
802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.67 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.00dBm 809.2MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.67 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -51.67dBm 4.962GHz  START 1.000GHz STOP 5.460GHz *RBW 1.0MHz *VBW 1.0MHz SWP 90.0ms			



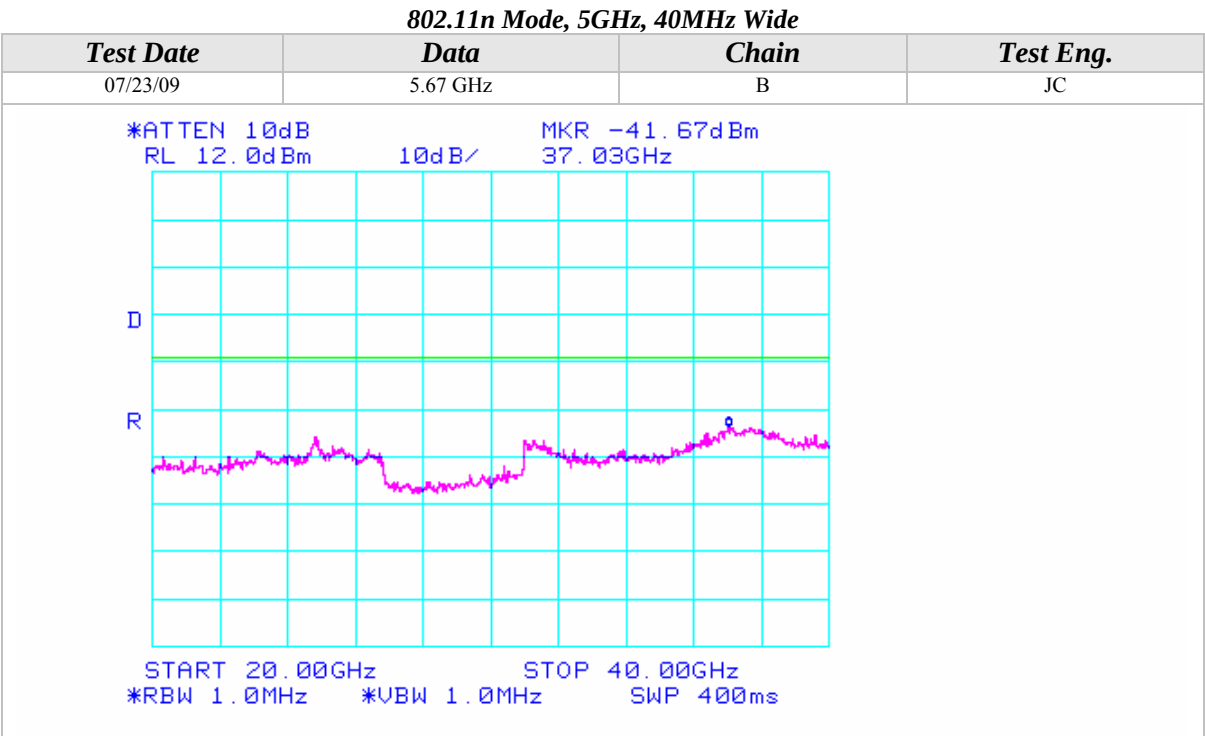
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.67 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.50dBm 5.725GHz  START 5.725GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.67 GHz	B	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.50dBm 13.87GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



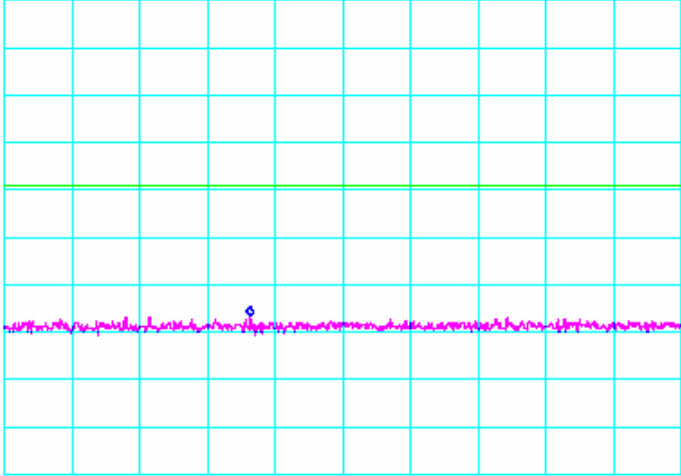
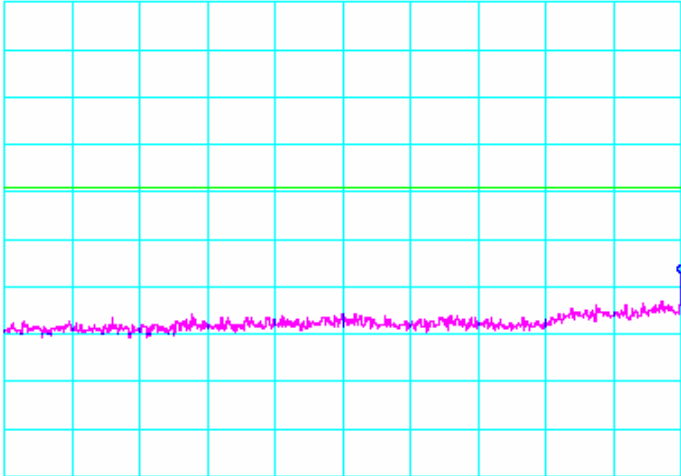
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

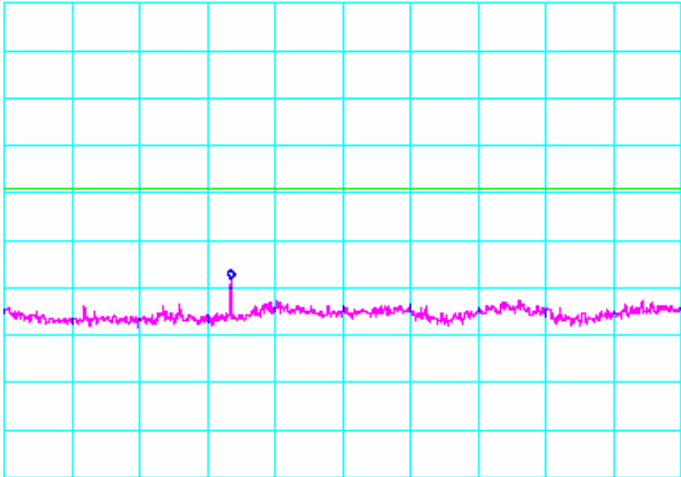
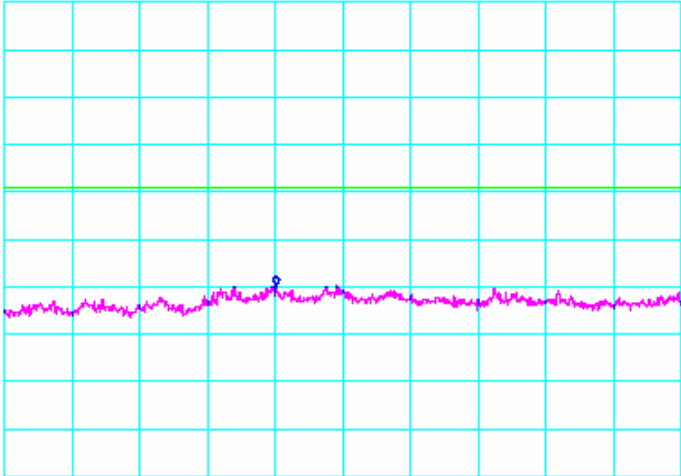
802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.18 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.67dBm 382.4MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.18 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -45.33dBm 5.150GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



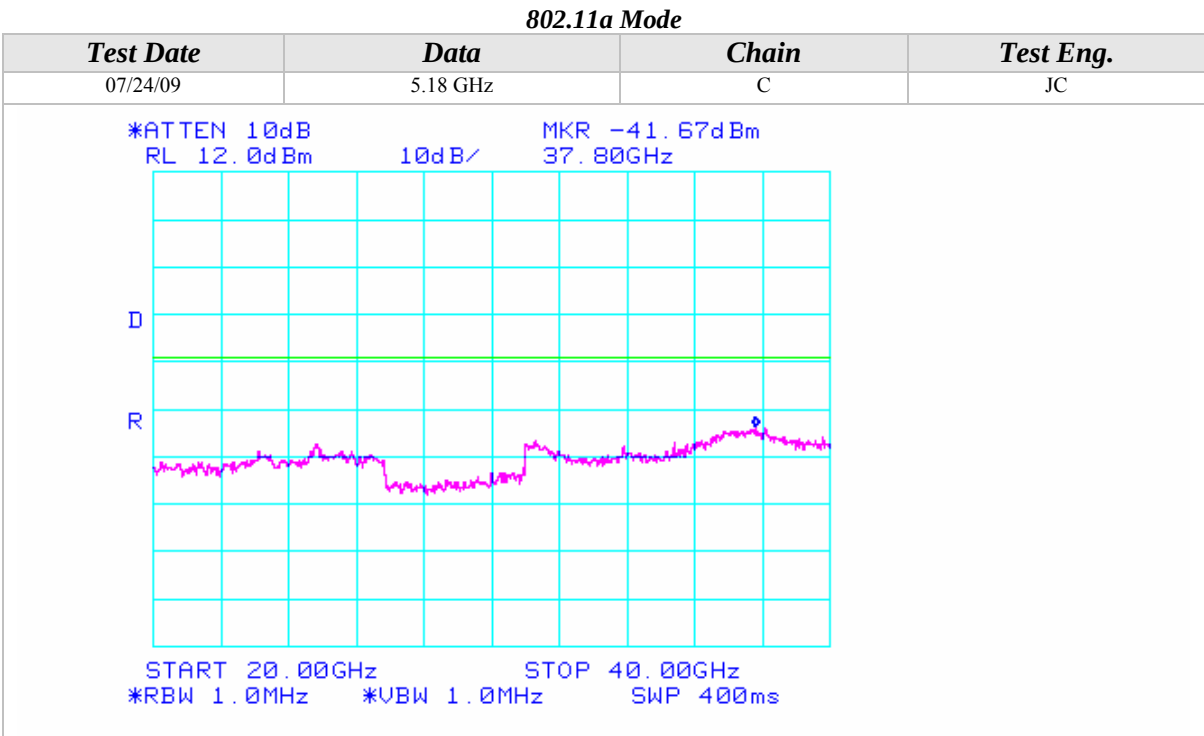
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.18 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -46.17dBm 6.908GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.18 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.67dBm 14.02GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			

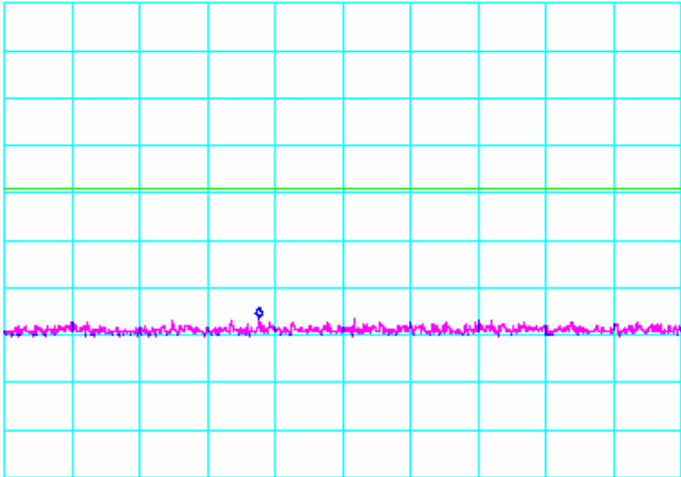
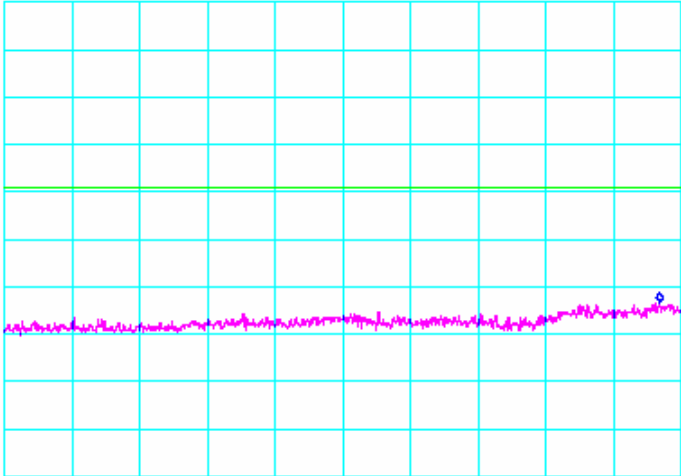


Conducted Out Of Band Emissions (Continued)





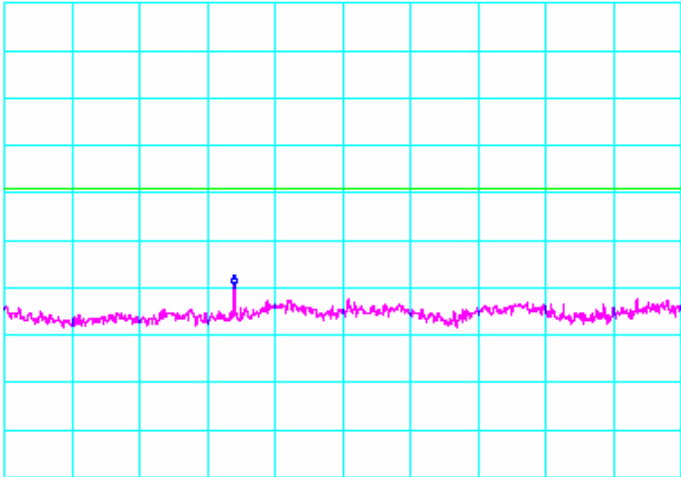
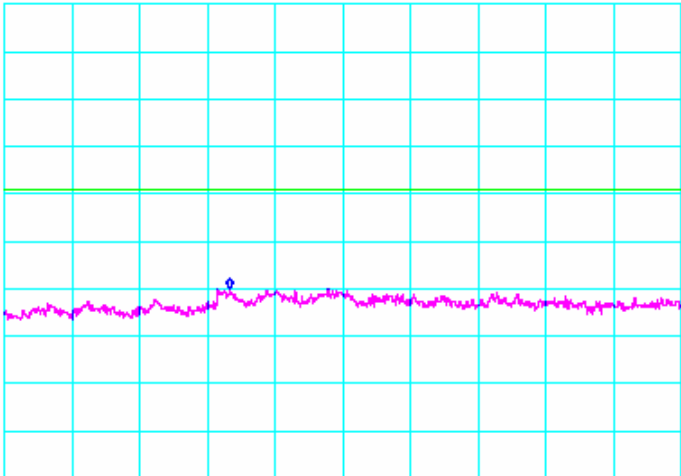
Conducted Out Of Band Emissions (Continued)

802.11a Mode			
Test Date	Data	Chain	Test Eng.
07/24/09	5.20 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.33dBm 395.4MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.20 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -51.33dBm 5.019GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



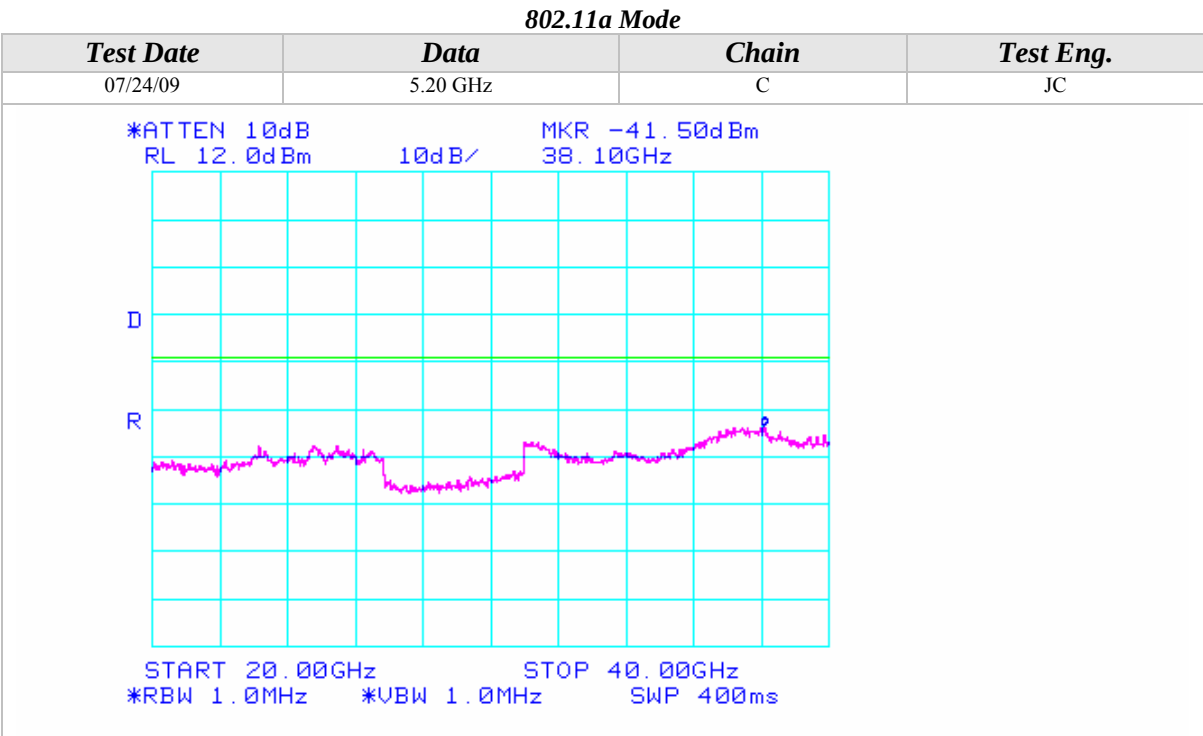
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.20 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.50dBm 6.931GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.20 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.83dBm 13.33GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			

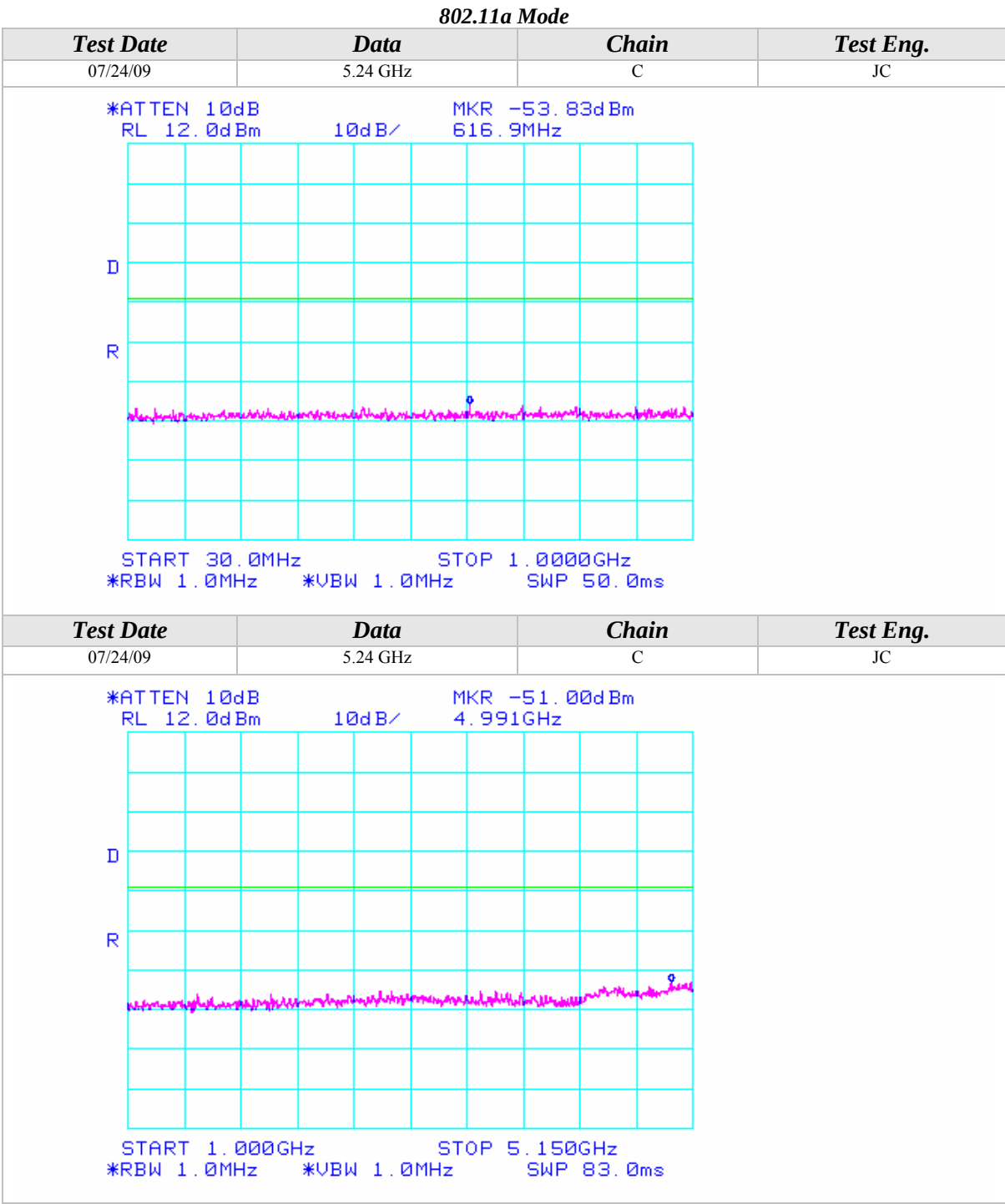


Conducted Out Of Band Emissions (Continued)



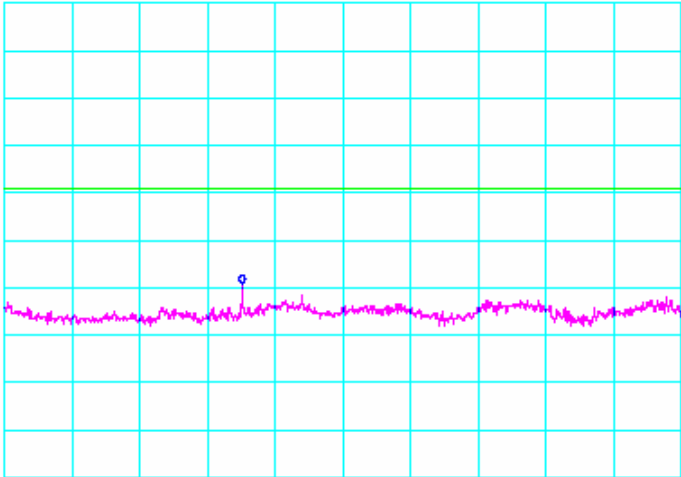
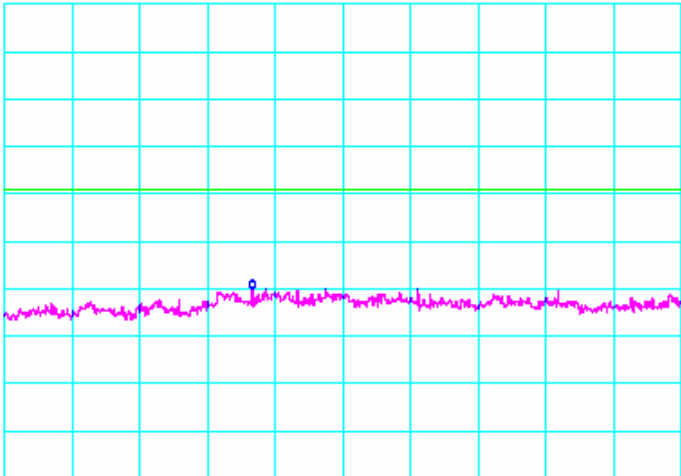


Conducted Out Of Band Emissions (Continued)



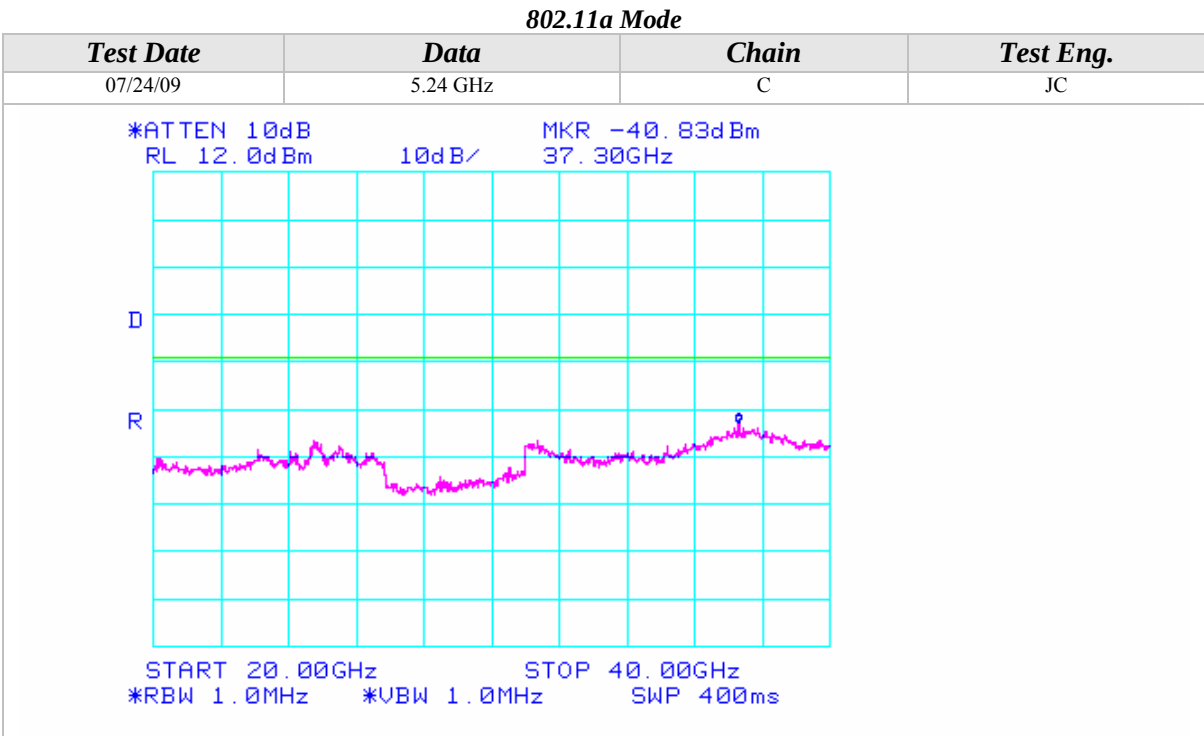


Conducted Out Of Band Emissions (Continued)

802.11a Mode			
Test Date	Data	Chain	Test Eng.
07/24/09	5.24 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.17dBm 6.985GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.24 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -48.17dBm 13.67GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



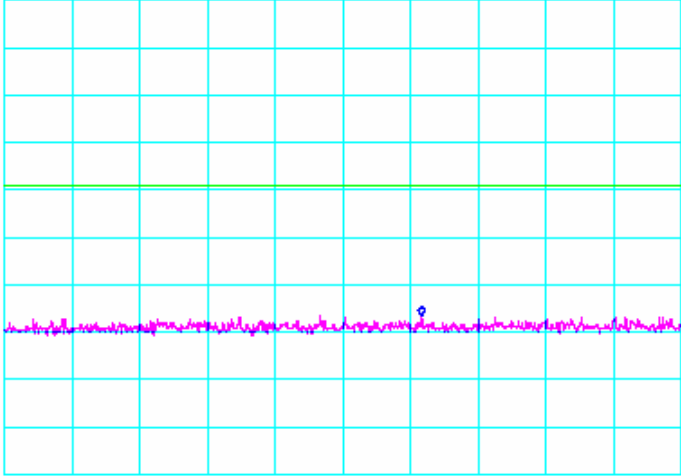
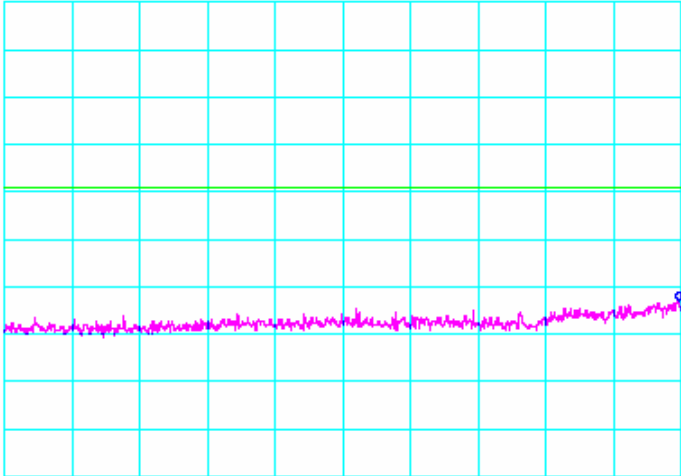
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

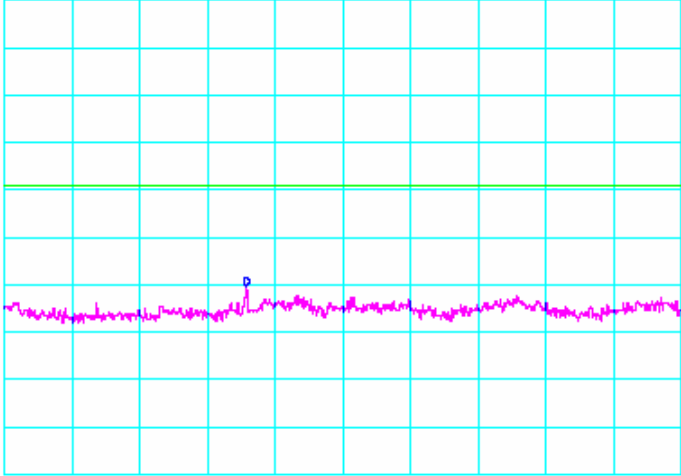
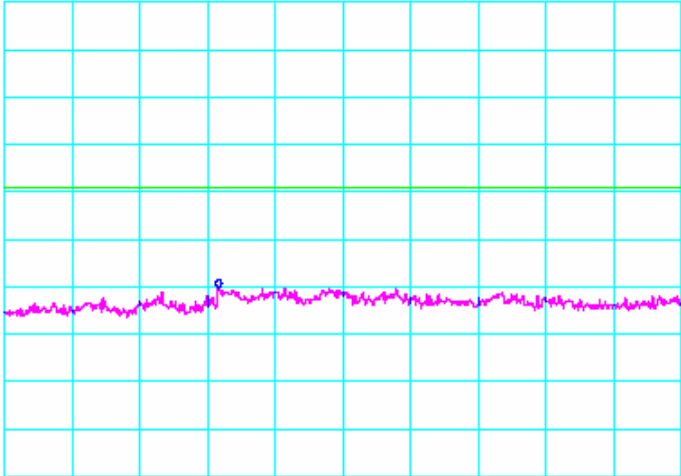
802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.50dBm 628.2MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -51.00dBm 5.136GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



Conducted Out Of Band Emissions (Continued)

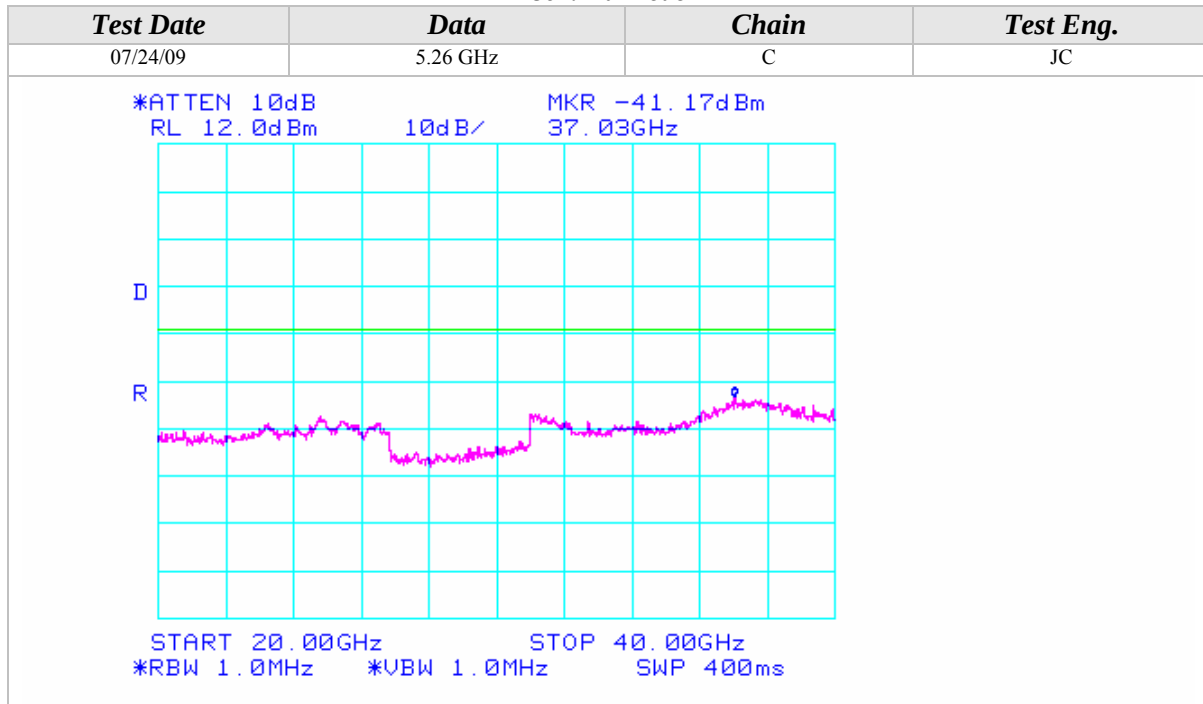
802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -48.33dBm 7.016GHz  START 5.350GHz *RBW 1.0MHz STOP 10.000GHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -48.33dBm 13.17GHz  START 10.00GHz *RBW 1.0MHz STOP 20.00GHz *VBW 1.0MHz SWP 200ms			



Conducted Out Of Band Emissions (Continued)

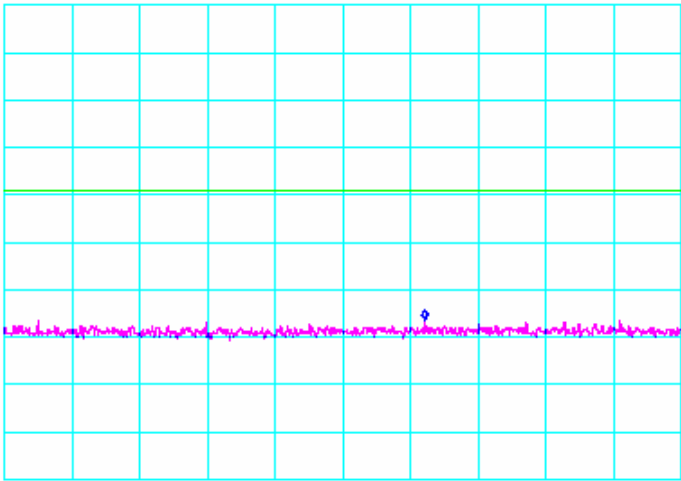
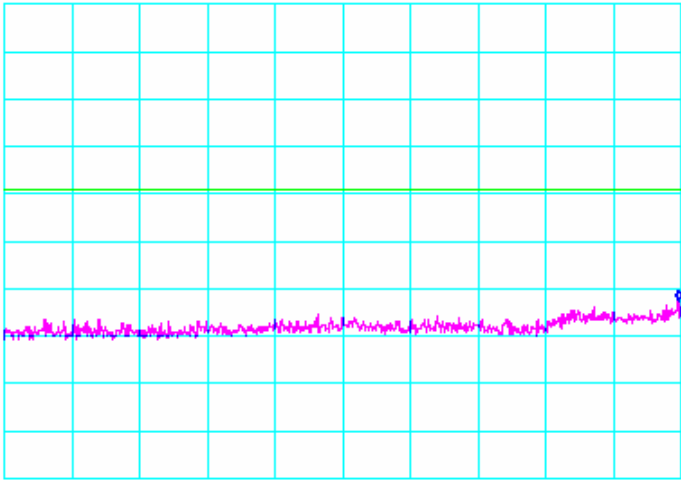
802.11a Mode





Conducted Out Of Band Emissions (Continued)

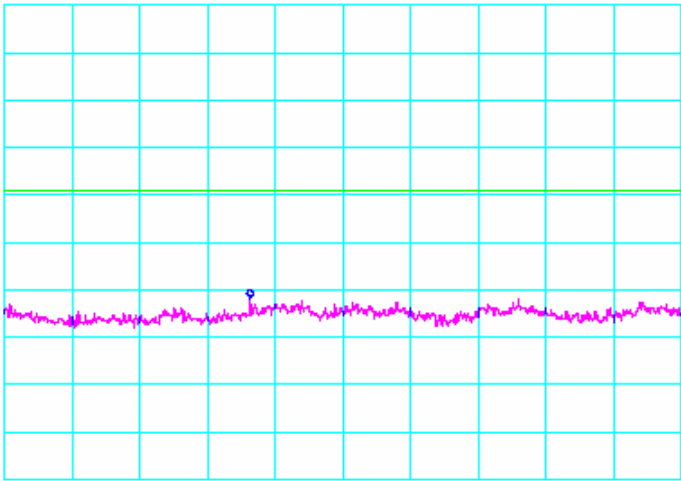
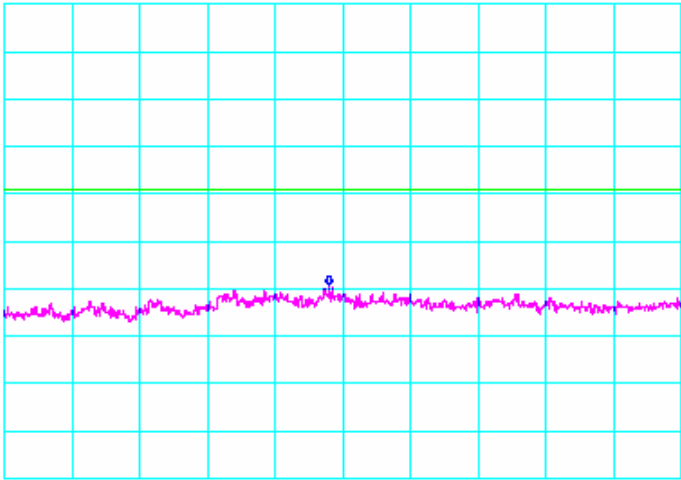
802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.28 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.33dBm 633.0MHz  START 30.0MHz *RBW 1.0MHz STOP 1.0000GHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.28 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -50.50dBm 5.136GHz  START 1.000GHz *RBW 1.0MHz STOP 5.150GHz *VBW 1.0MHz SWP 83.0ms			



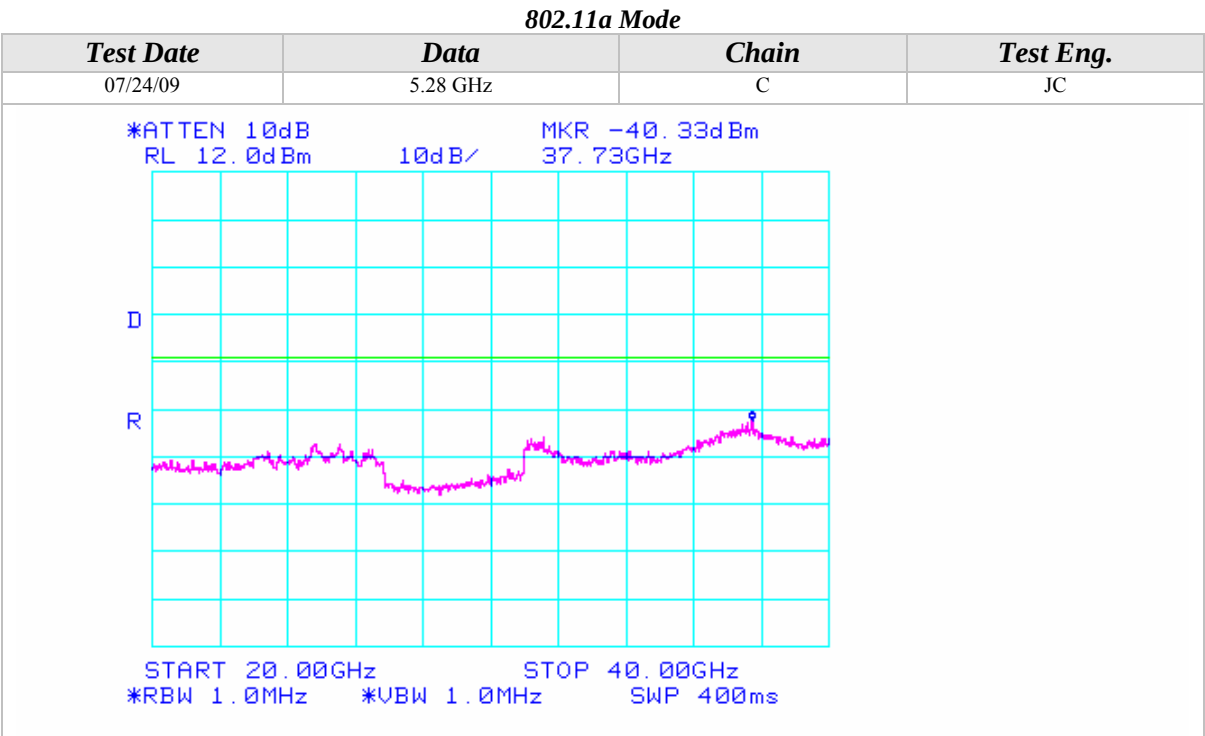
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.28 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.83dBm 7.040GHz  START 5.350GHz *RBW 1.0MHz STOP 10.000GHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.28 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.33dBm 14.80GHz  START 10.00GHz *RBW 1.0MHz STOP 20.00GHz *VBW 1.0MHz SWP 200ms			

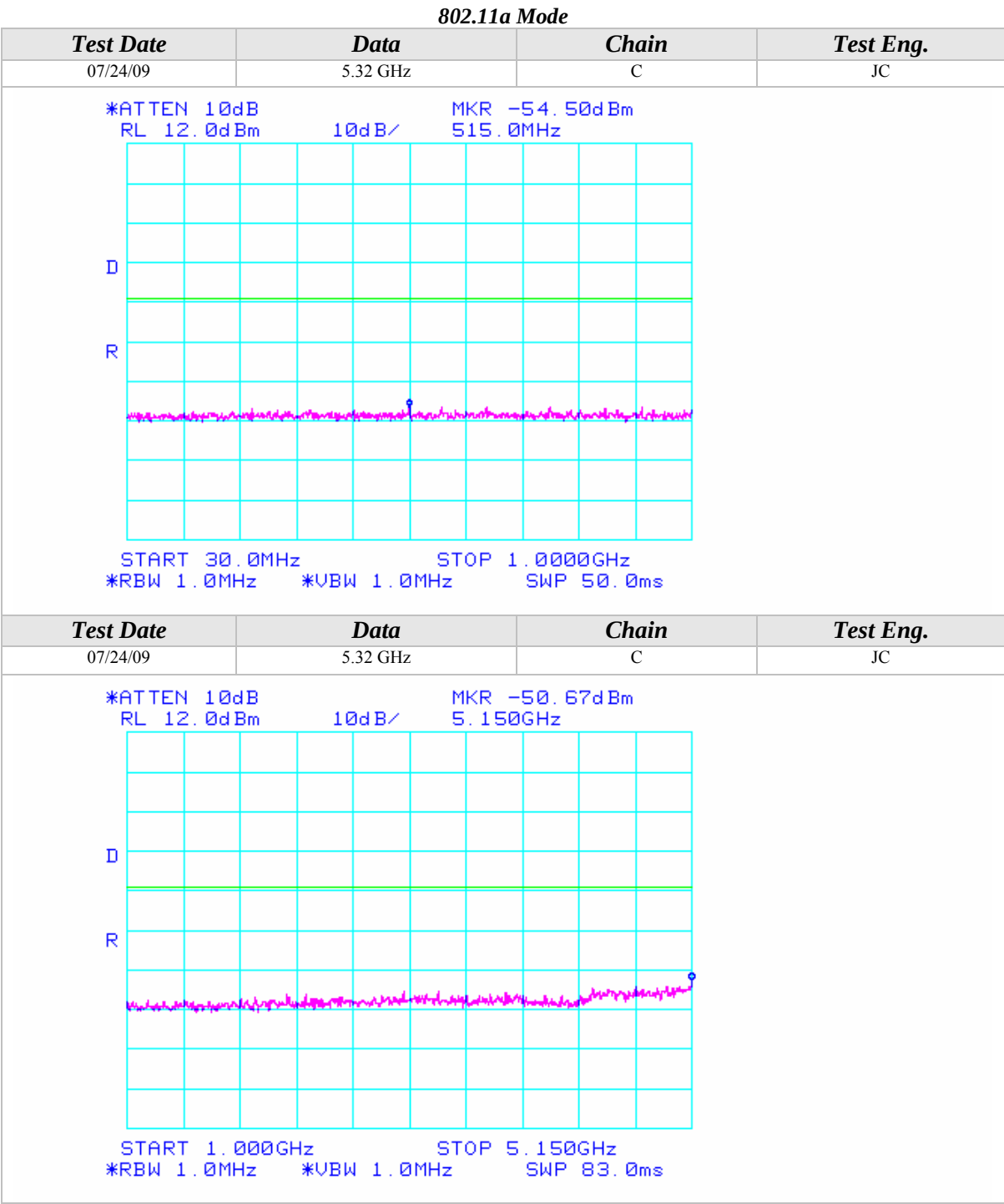


Conducted Out Of Band Emissions (Continued)





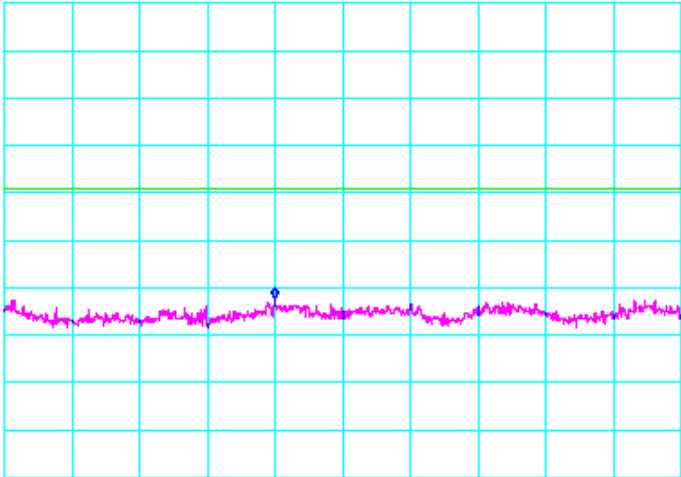
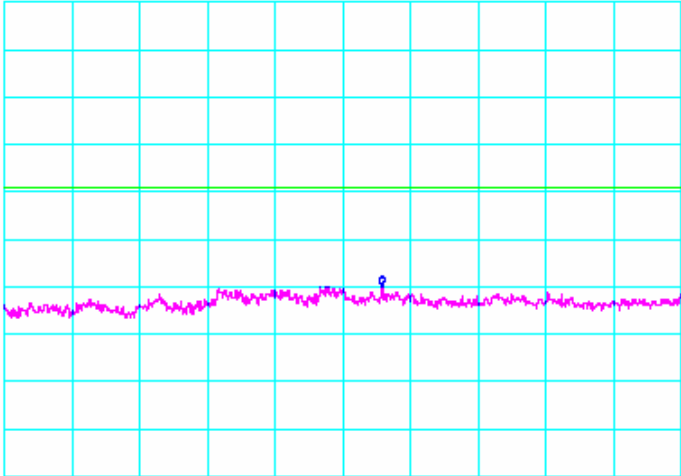
Conducted Out Of Band Emissions (Continued)





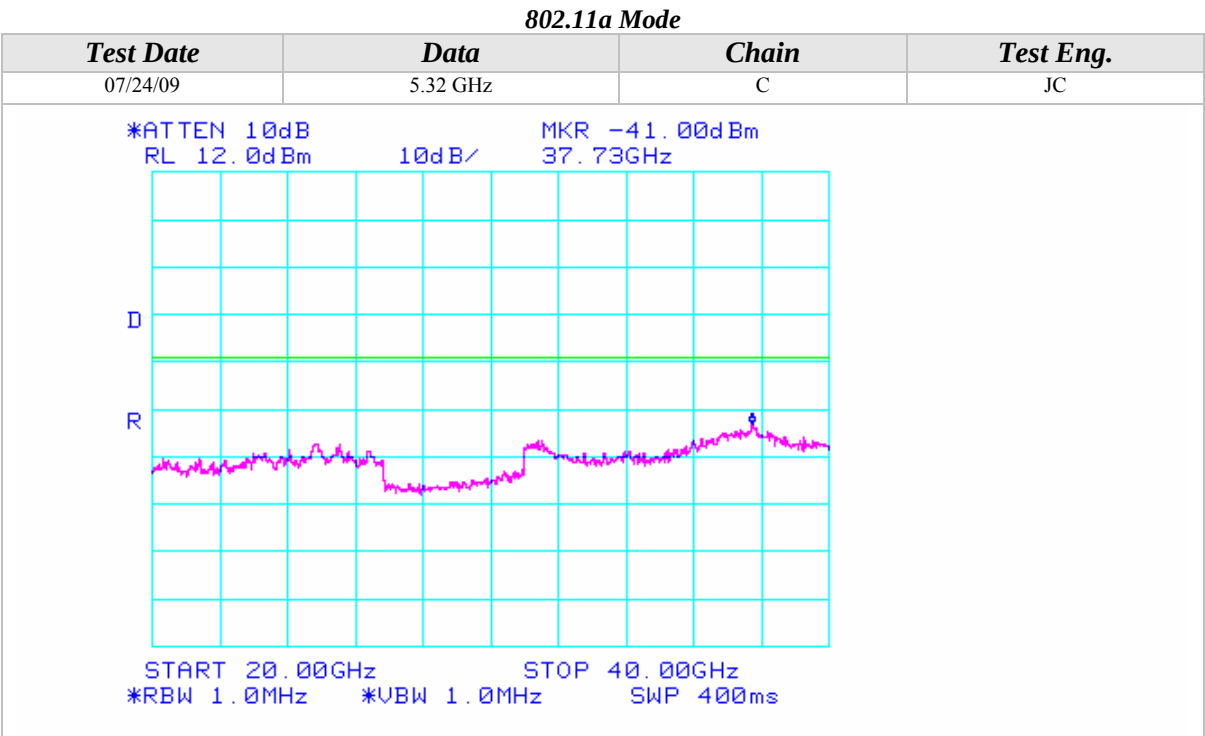
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.32 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -50.17dBm 7.210GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.32 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.67dBm 15.58GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



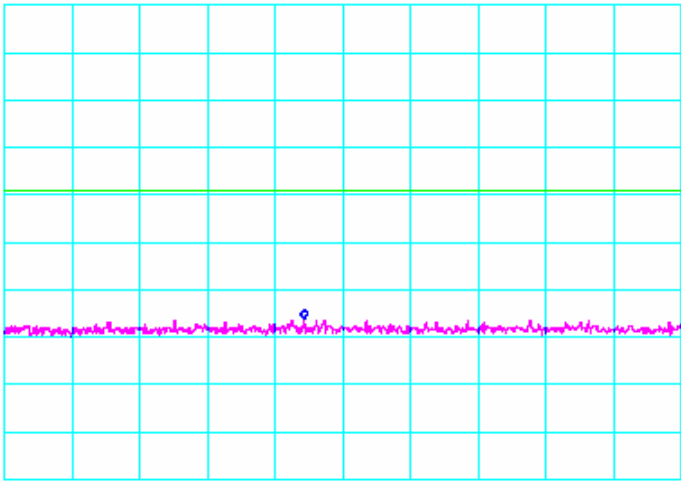
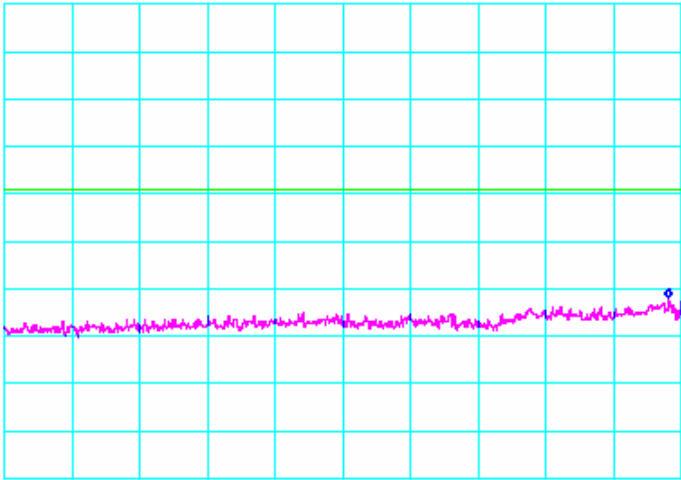
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

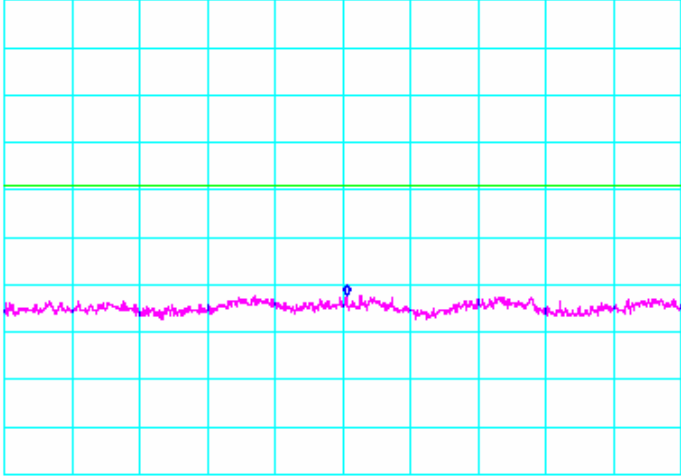
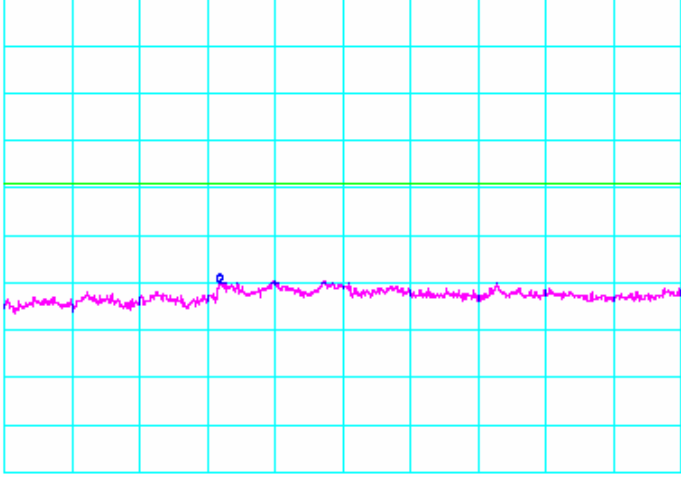
802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.50 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.17dBm 460.0MHz  START 30.0MHz *RBW 1.0MHz STOP 1.0000GHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.50 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -50.00dBm 5.378GHz  START 1.000GHz *RBW 1.0MHz STOP 5.460GHz *VBW 1.0MHz SWP 90.0ms			



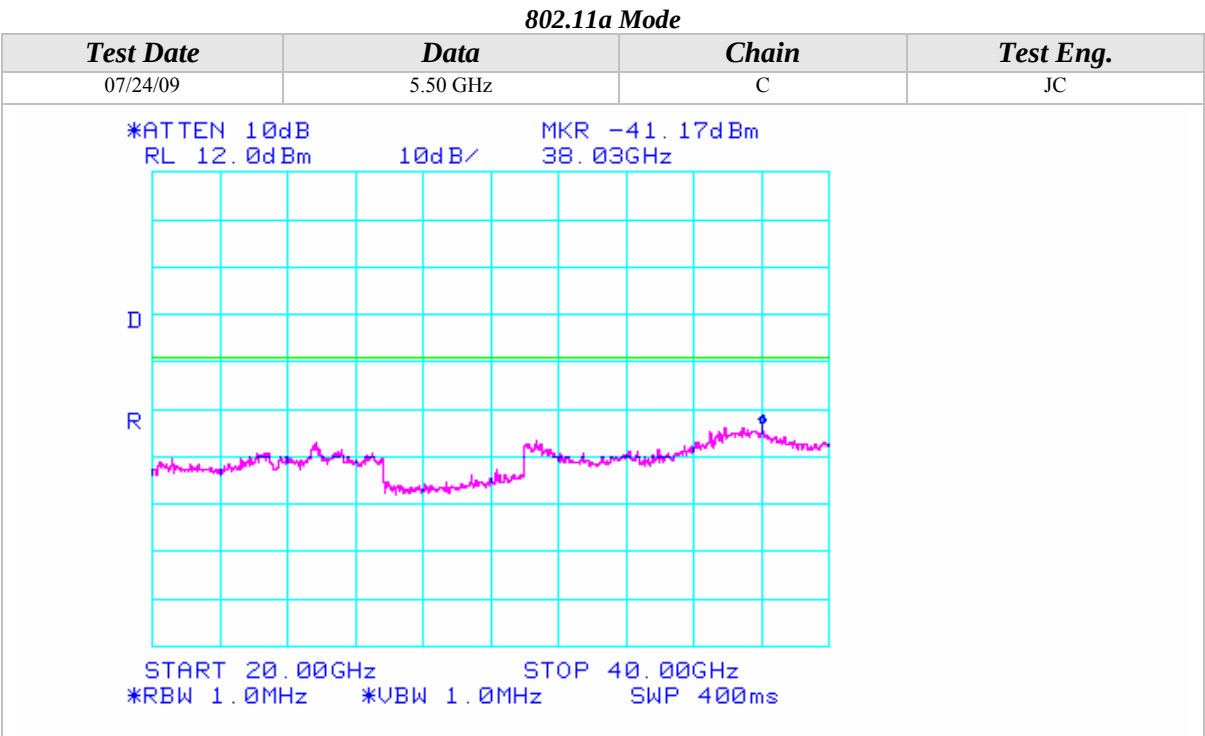
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.50 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -50.17dBm 7.891GHz  START 5.725GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.50 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -48.00dBm 13.18GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			

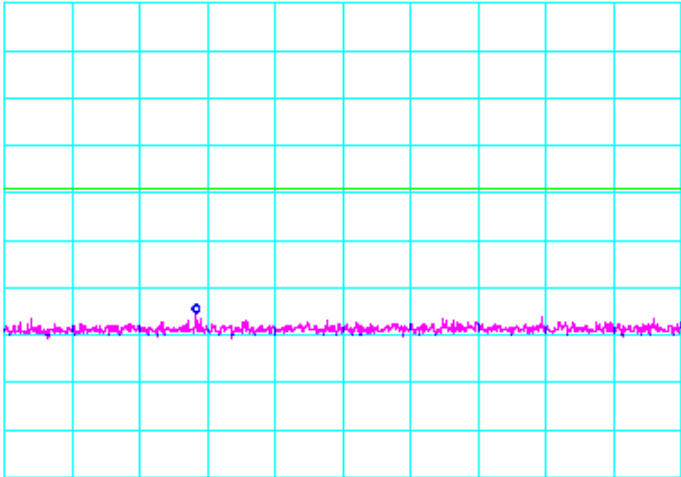
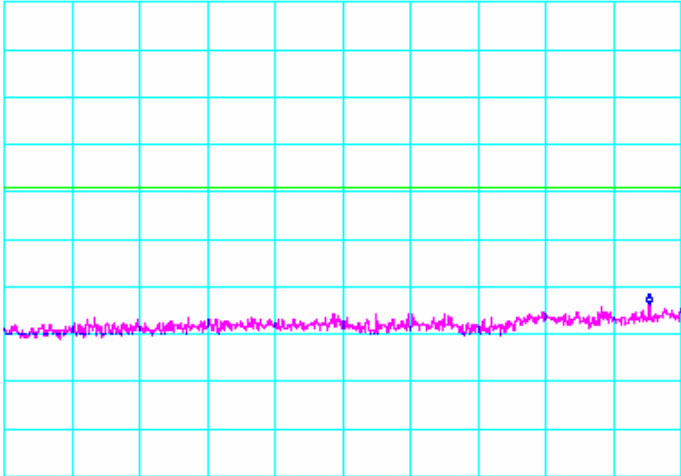


Conducted Out Of Band Emissions (Continued)





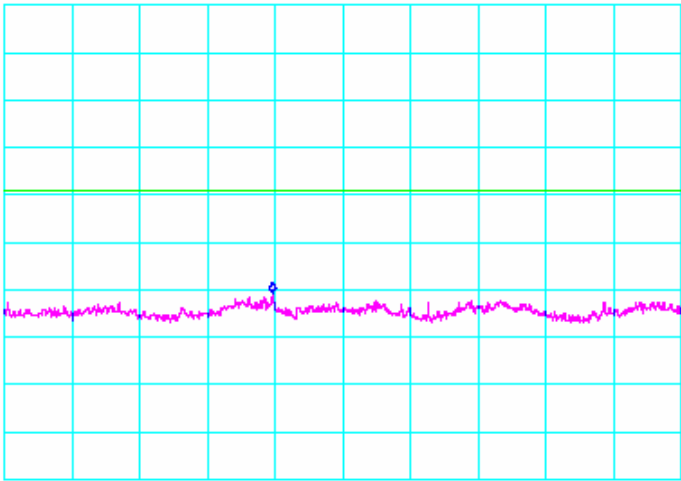
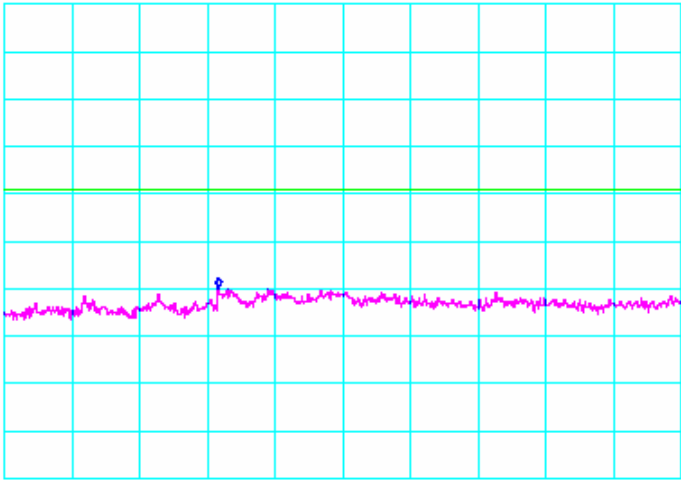
Conducted Out Of Band Emissions (Continued)

802.11a Mode			
Test Date	Data	Chain	Test Eng.
07/24/09	5.60 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -53.50dBm 304.8MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.60 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -51.67dBm 5.252GHz  START 1.000GHz STOP 5.460GHz *RBW 1.0MHz *VBW 1.0MHz SWP 90.0ms			



Conducted Out Of Band Emissions (Continued)

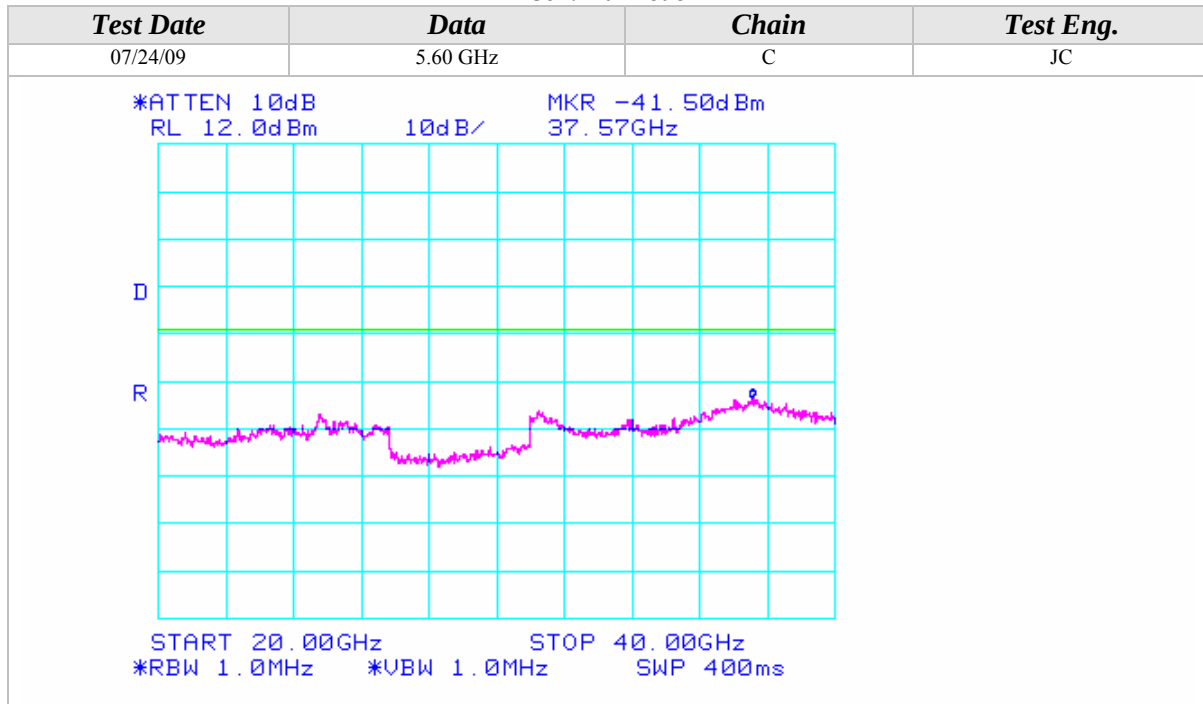
802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.60 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -48.67dBm 7.421GHz  START 5.725GHz *RBW 1.0MHz STOP 10.000GHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.60 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.67dBm 13.17GHz  START 10.00GHz *RBW 1.0MHz STOP 20.00GHz *VBW 1.0MHz SWP 200ms			



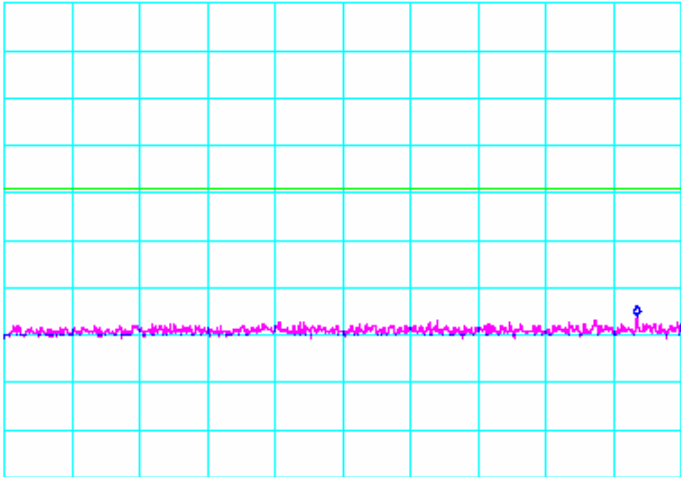
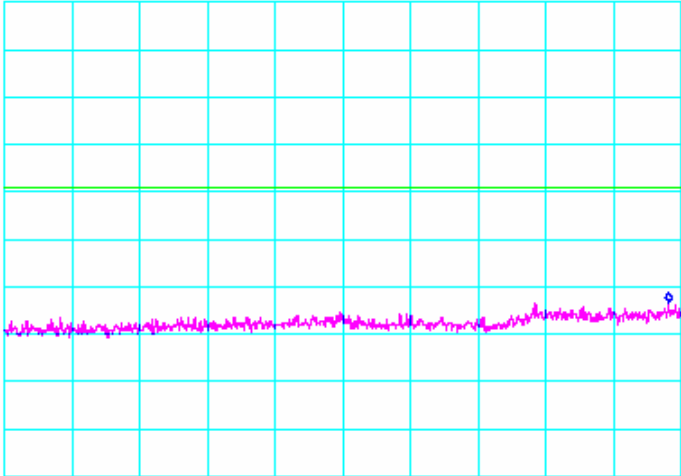
Conducted Out Of Band Emissions (Continued)

802.11a Mode





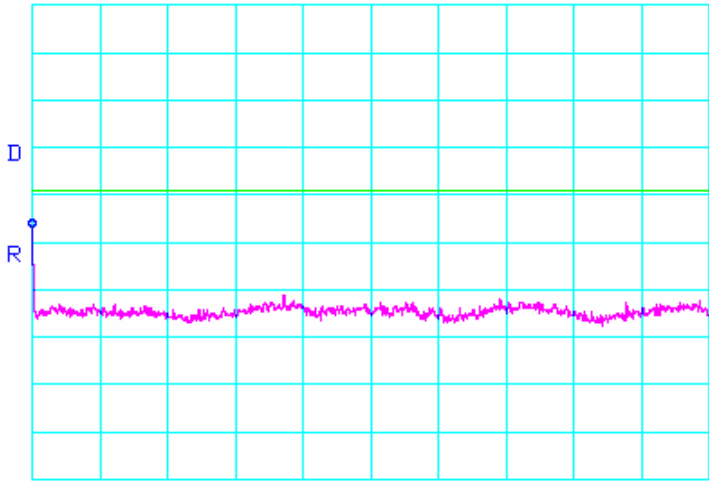
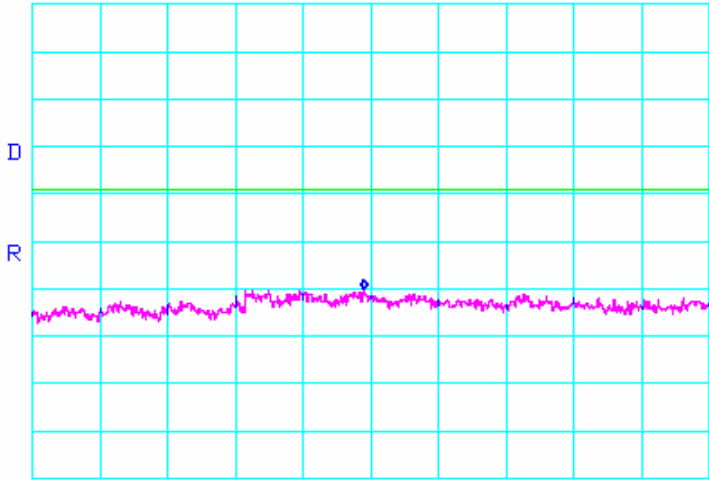
Conducted Out Of Band Emissions (Continued)

802.11a Mode			
Test Date	Data	Chain	Test Eng.
07/24/09	5.70 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.00dBm 937.0MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.70 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -51.33dBm 5.378GHz  START 1.000GHz STOP 5.460GHz *RBW 1.0MHz *VBW 1.0MHz SWP 90.0ms			



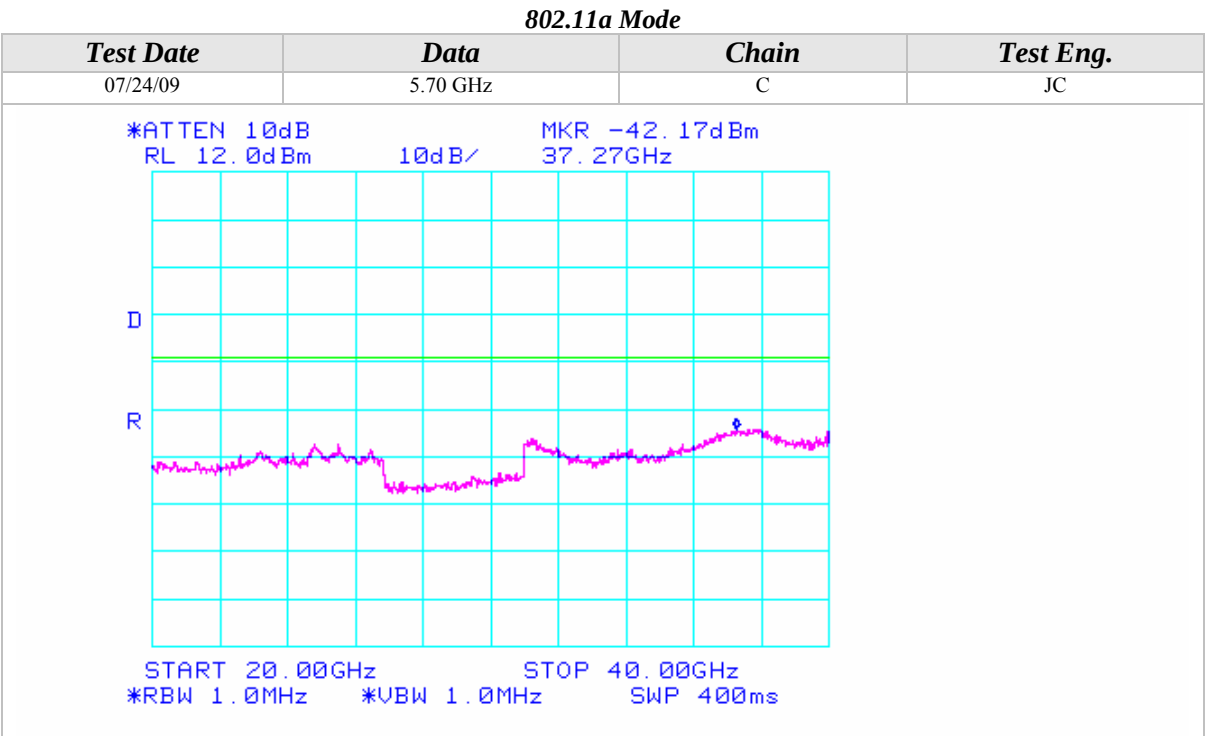
Conducted Out Of Band Emissions (Continued)

802.11a Mode

Test Date	Data	Chain	Test Eng.
07/24/09	5.70 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -35.00dBm 5.725GHz  START 5.725GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.70 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -48.17dBm 14.90GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



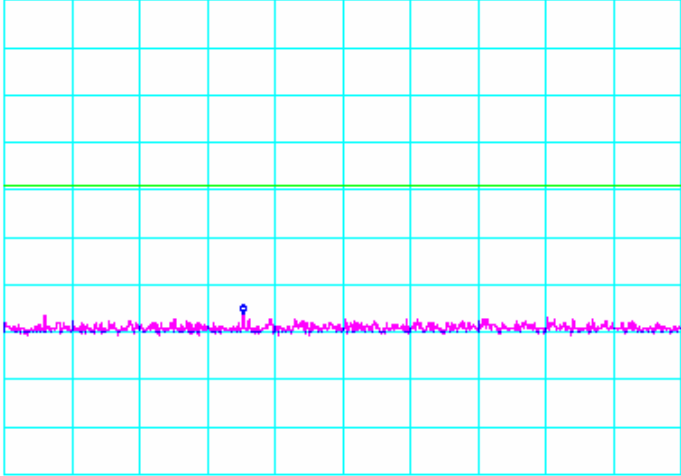
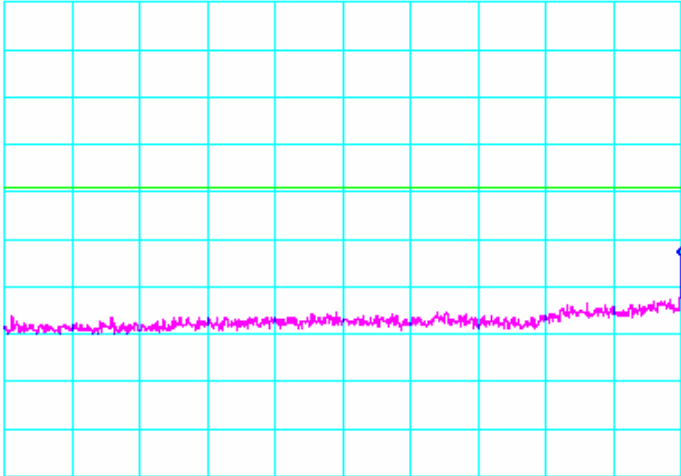
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

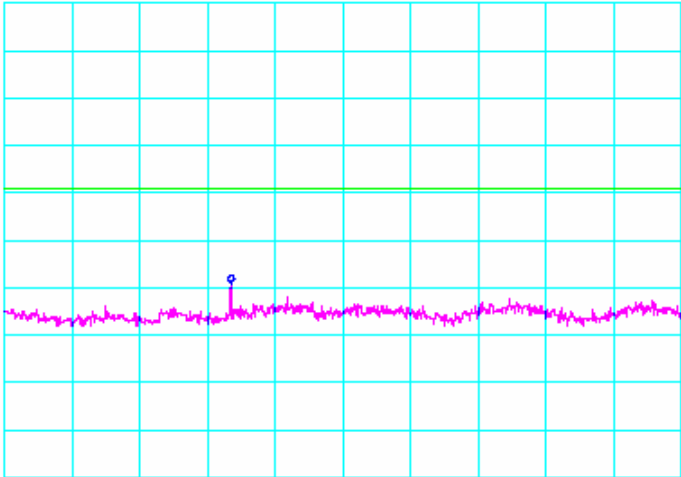
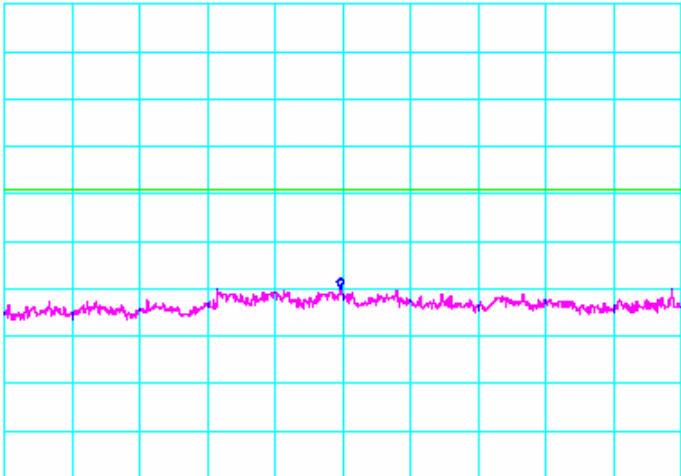
802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.18 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.17dBm 372.7MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.18 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -41.67dBm 5.150GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



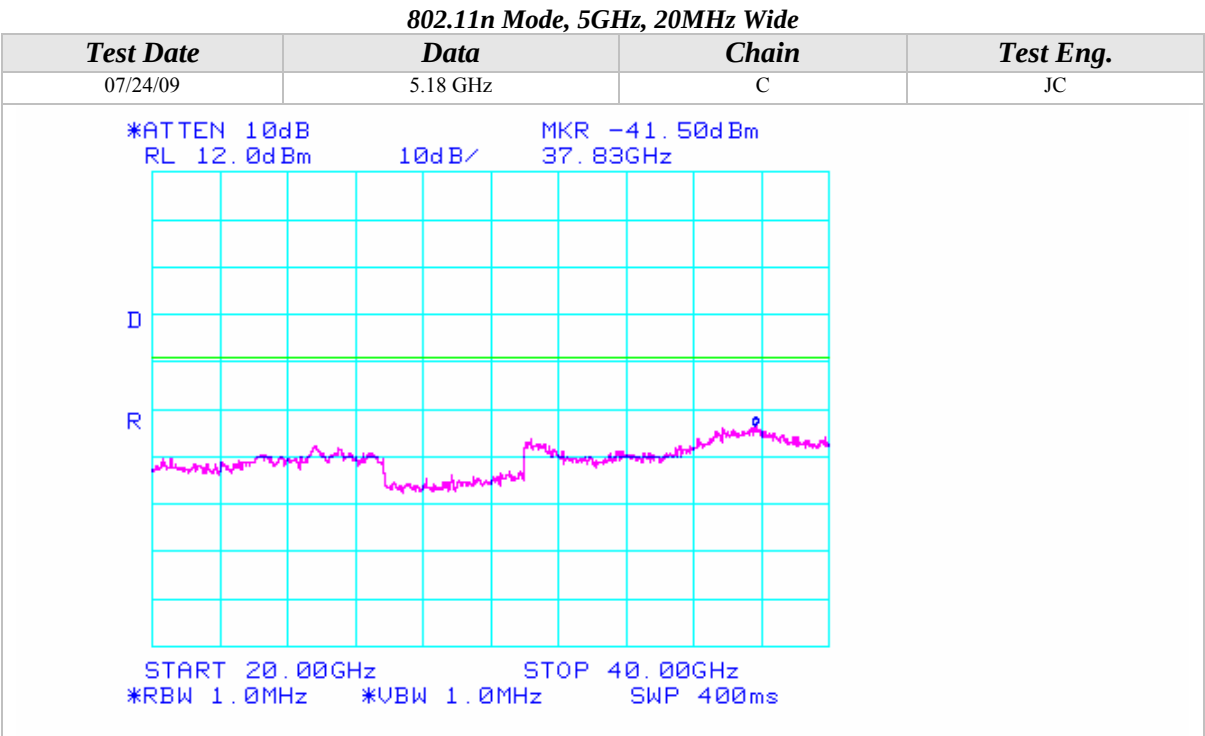
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.18 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.17dBm 6.908GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.18 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.67dBm 14.97GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



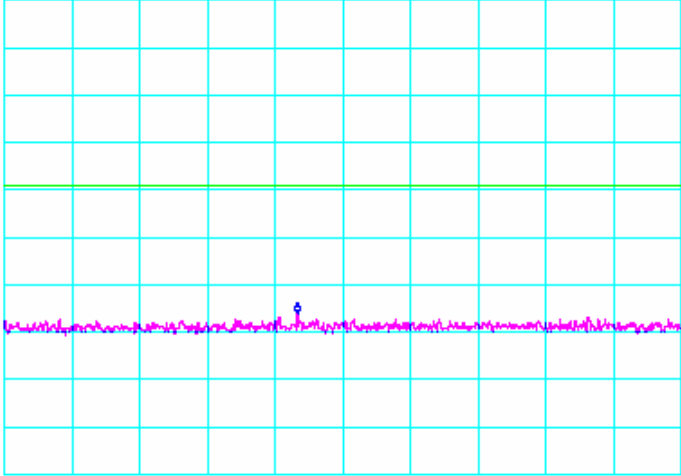
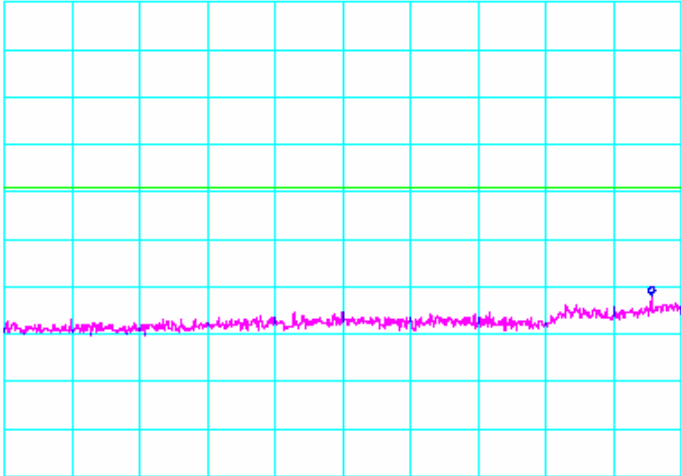
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

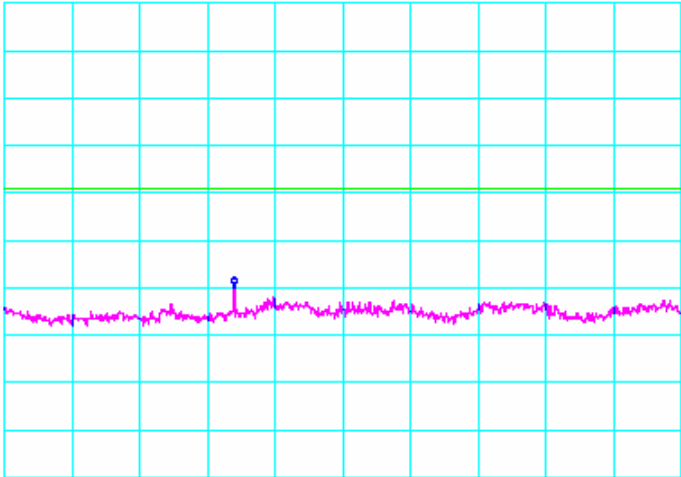
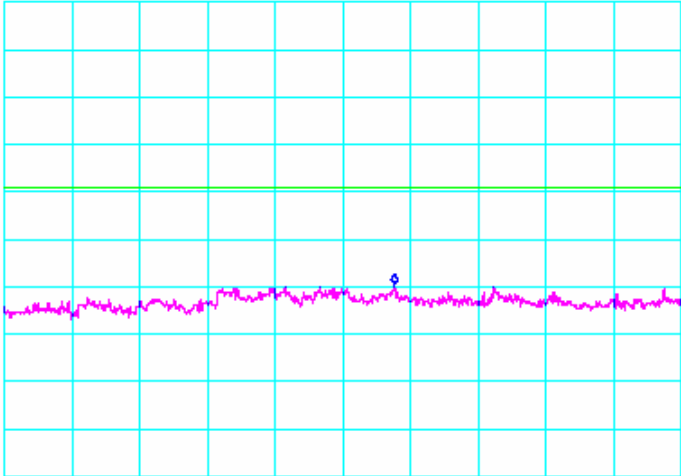
802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.20 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.00dBm 450.3MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.20 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.83dBm 4.970GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



Conducted Out Of Band Emissions (Continued)

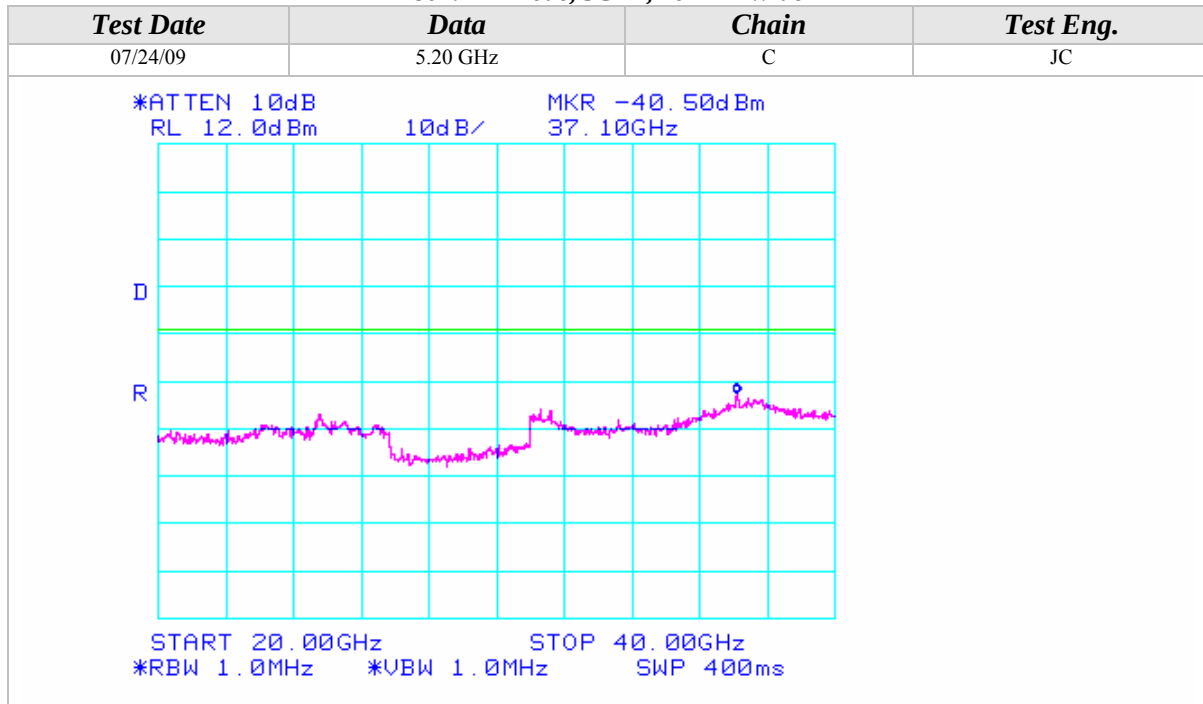
802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.20 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.67dBm 6.931GHz  START 5.350GHz *RBW 1.0MHz STOP 10.000GHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.20 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.50dBm 15.77GHz  START 10.00GHz *RBW 1.0MHz STOP 20.00GHz *VBW 1.0MHz SWP 200ms			



Conducted Out Of Band Emissions (Continued)

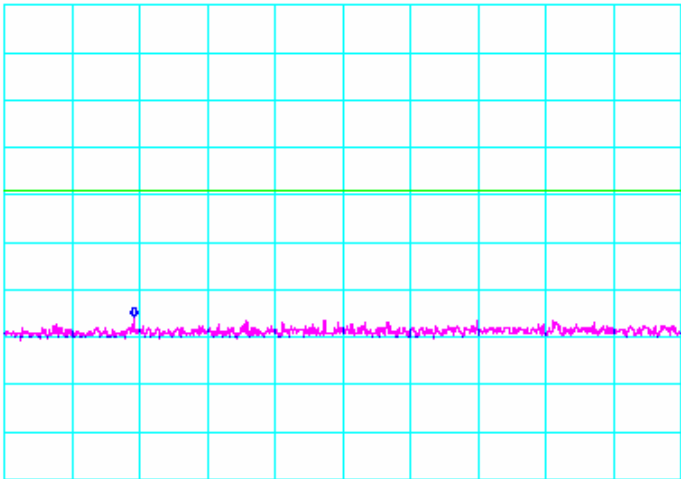
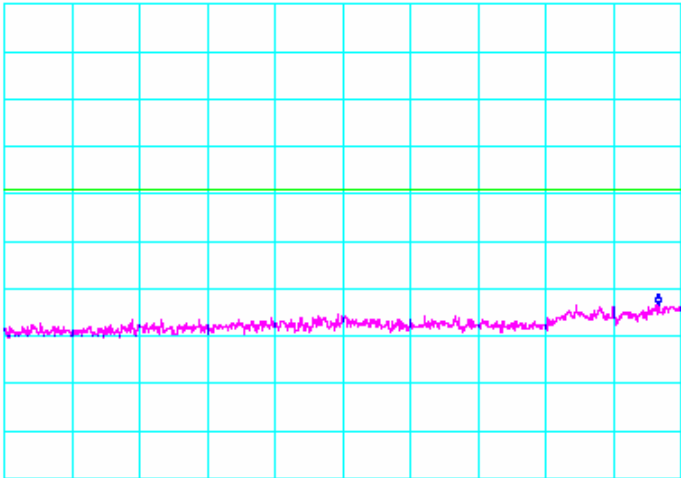
802.11n Mode, 5GHz, 20MHz Wide





Conducted Out Of Band Emissions (Continued)

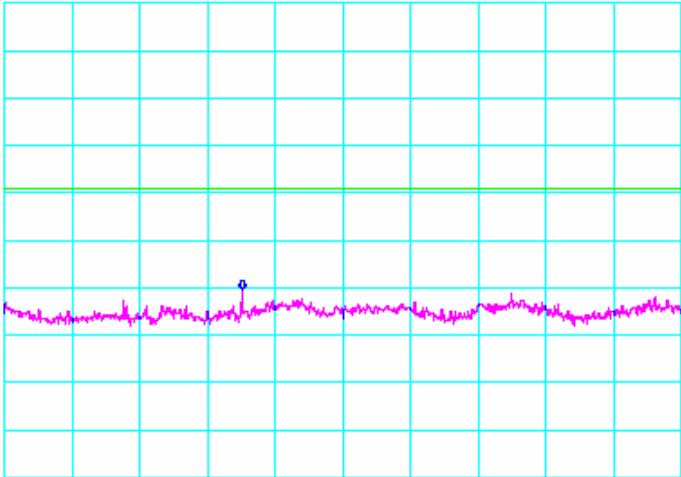
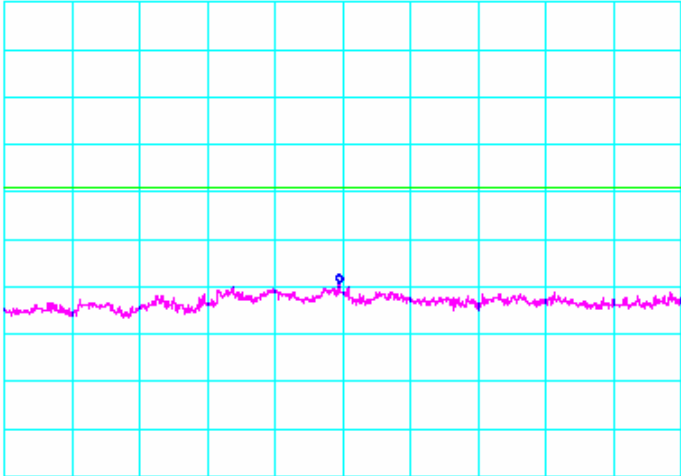
802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.24 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -53.83dBm 215.9MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.24 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -51.33dBm 5.012GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



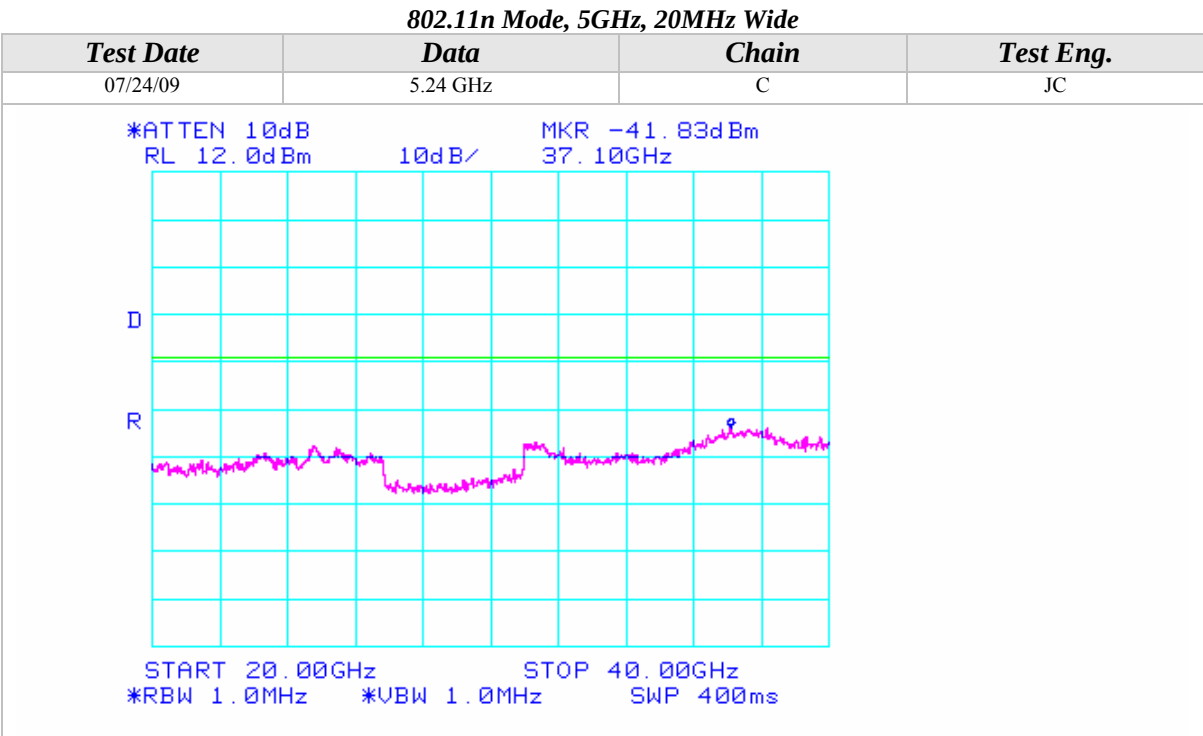
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.24 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -48.50dBm 6.985GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.24 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.33dBm 14.95GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



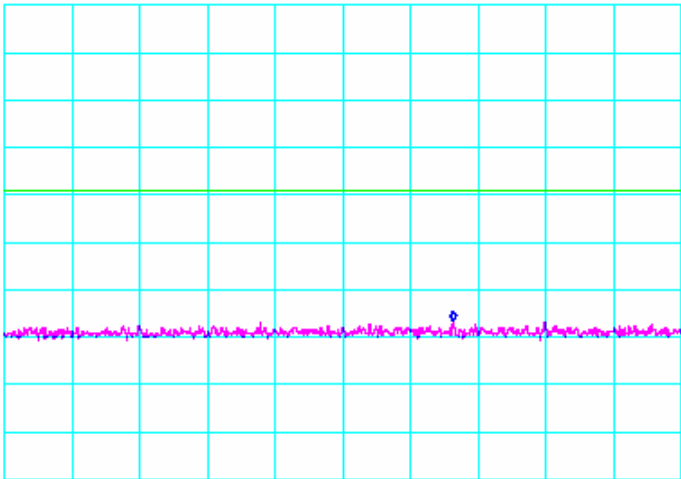
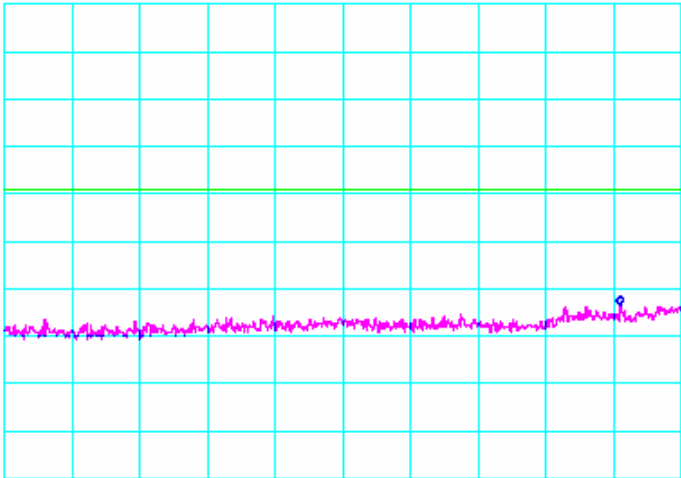
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

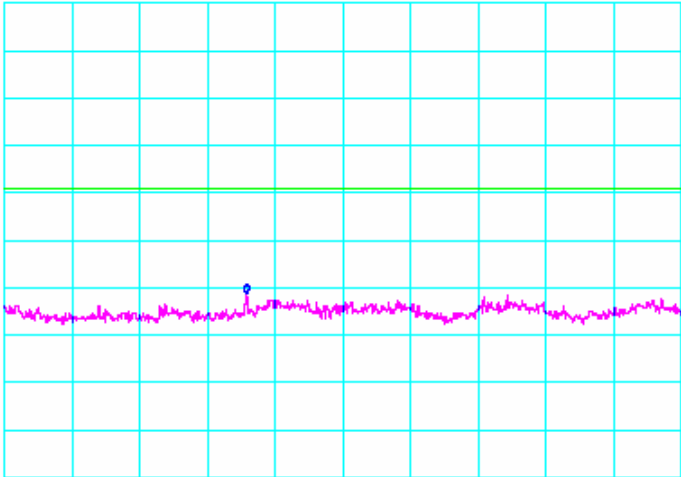
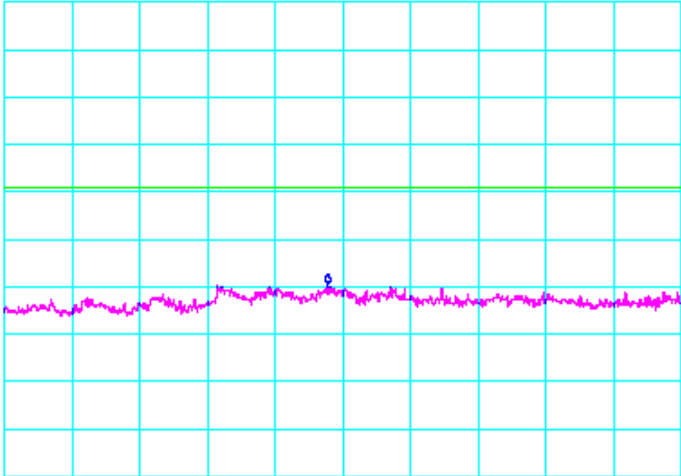
802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.50dBm 673.4MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -51.50dBm 4.777GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



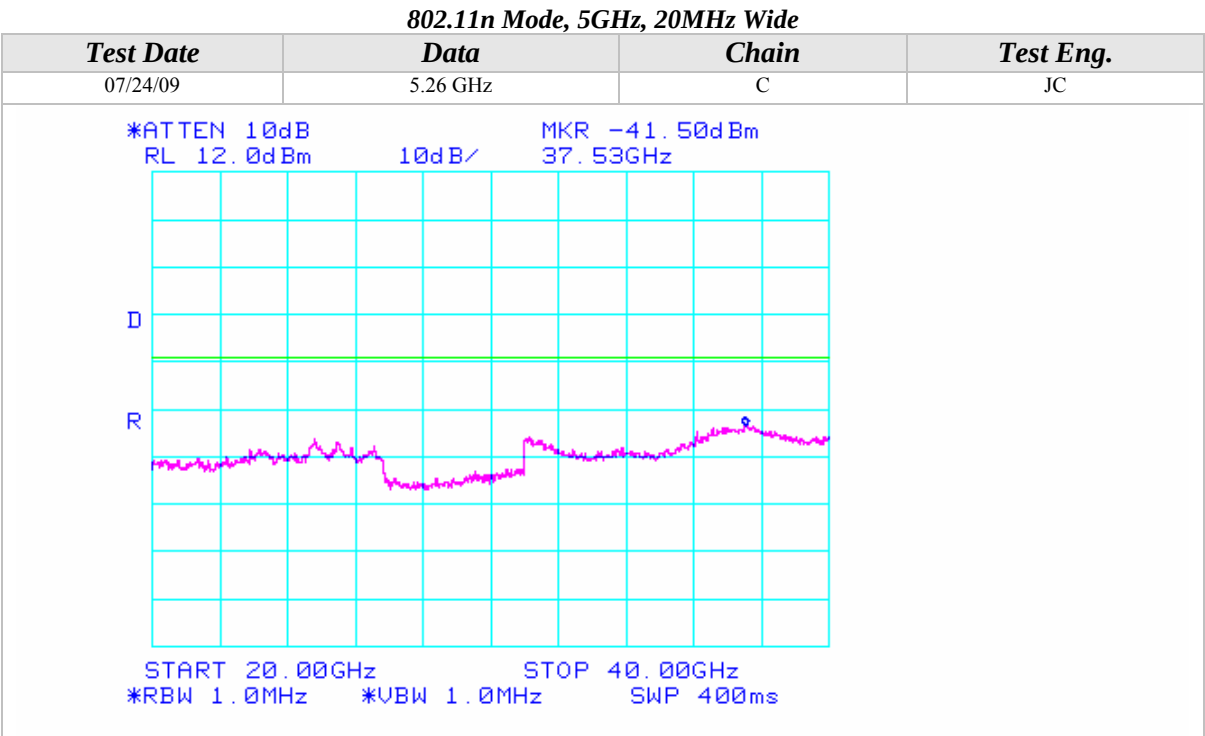
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.17dBm 7.016GHz  START 5.350GHz *RBW 1.0MHz STOP 10.000GHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.26 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.50dBm 14.78GHz  START 10.00GHz *RBW 1.0MHz STOP 20.00GHz *VBW 1.0MHz SWP 200ms			



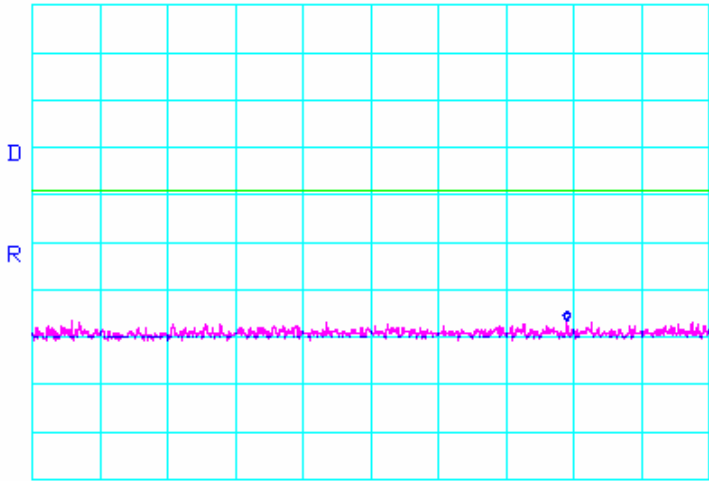
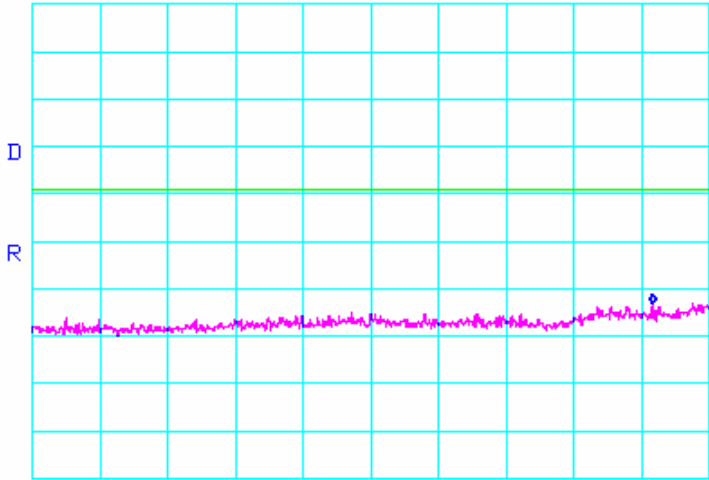
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

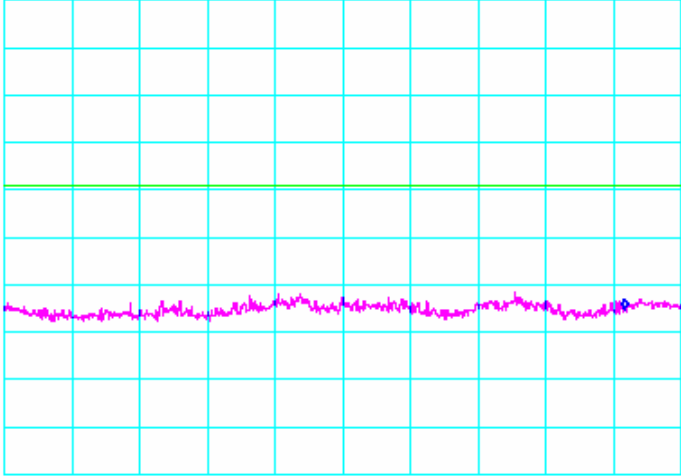
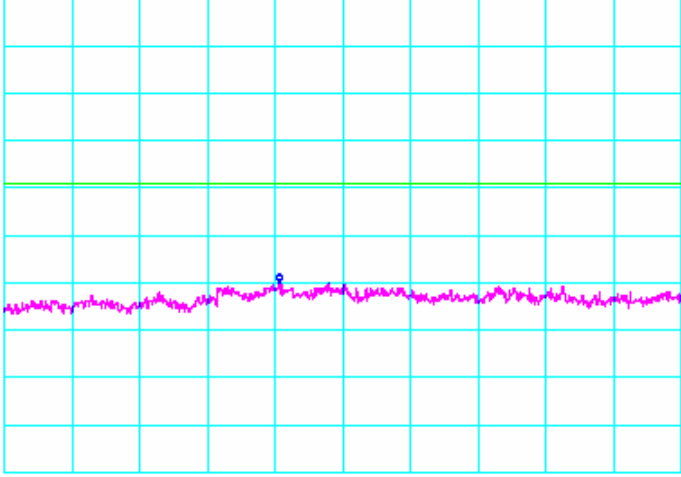
802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.28 GHz	C	JC
*ATTEN 10dB MKR -54.50dBm RL 12.0dBm 10dB/ 796.3MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.28 GHz	C	JC
*ATTEN 10dB MKR -51.17dBm RL 12.0dBm 10dB/ 4.804GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



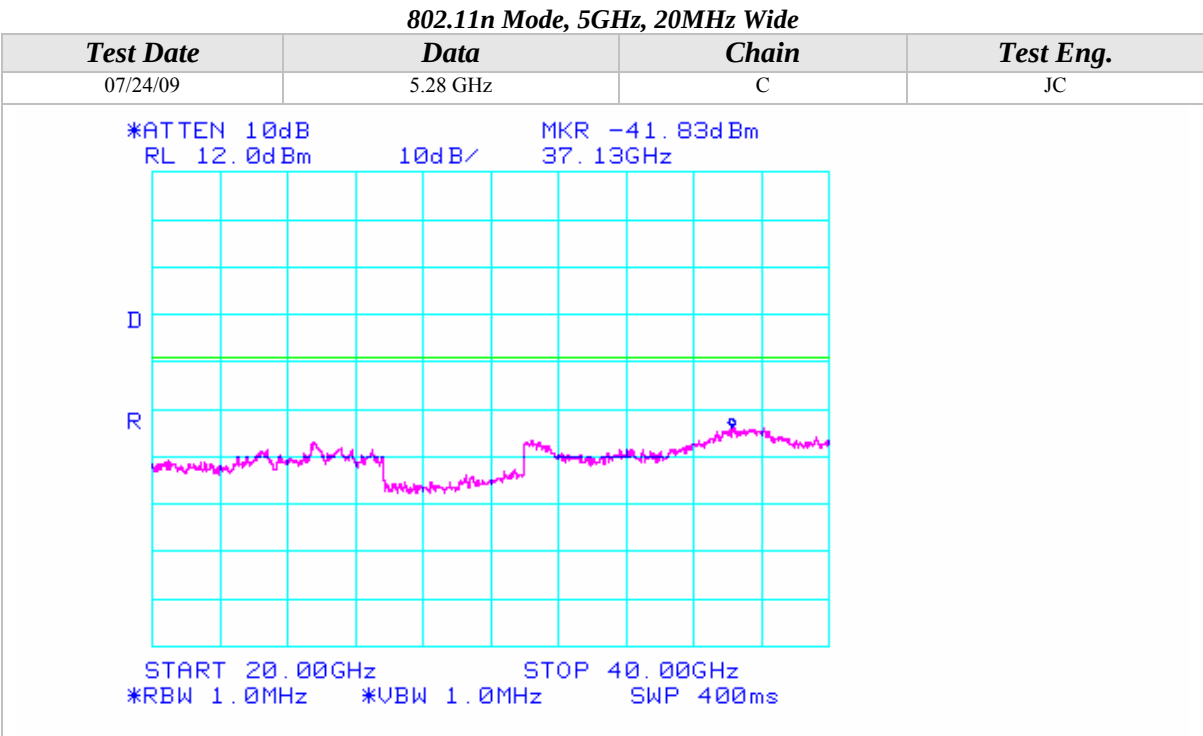
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.28 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -53.17dBm 9.613GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.28 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -48.00dBm 14.07GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



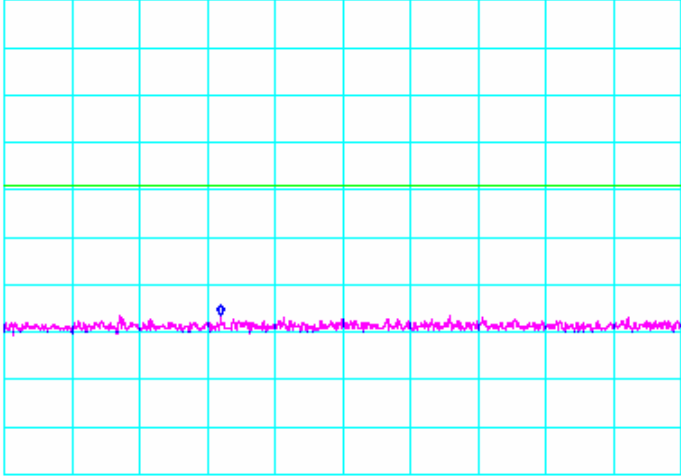
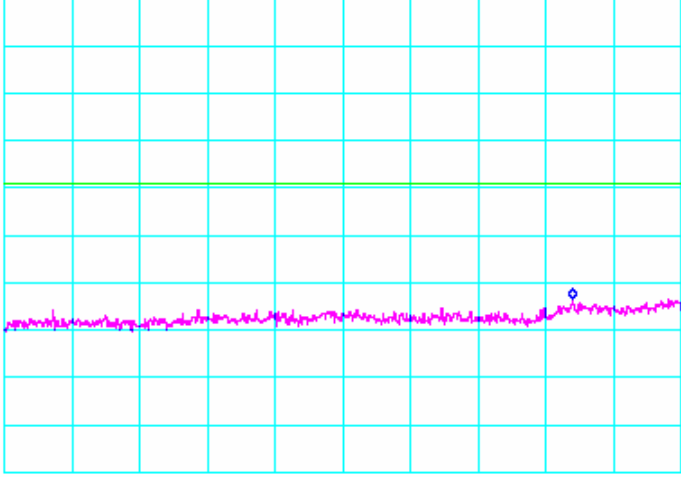
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

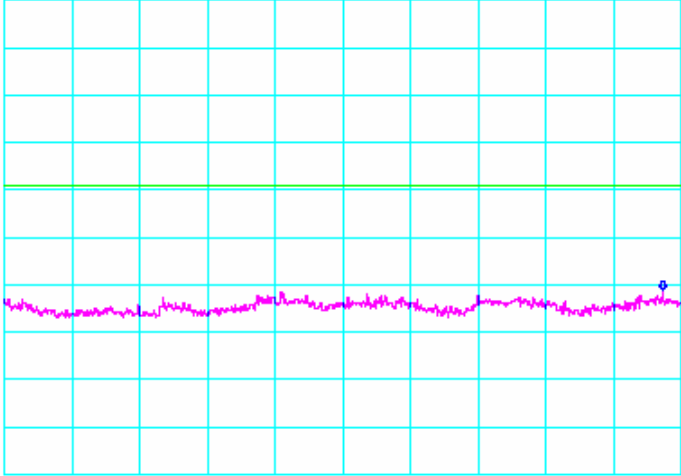
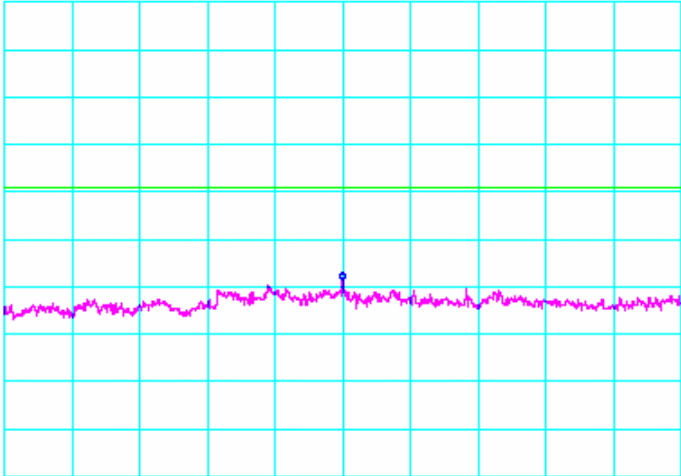
802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.32 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.33dBm 340.4MHz  START 30.0MHz *RBW 1.0MHz STOP 1.0000GHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.32 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -51.33dBm 4.486GHz  START 1.000GHz *RBW 1.0MHz STOP 5.150GHz *VBW 1.0MHz SWP 83.0ms			



Conducted Out Of Band Emissions (Continued)

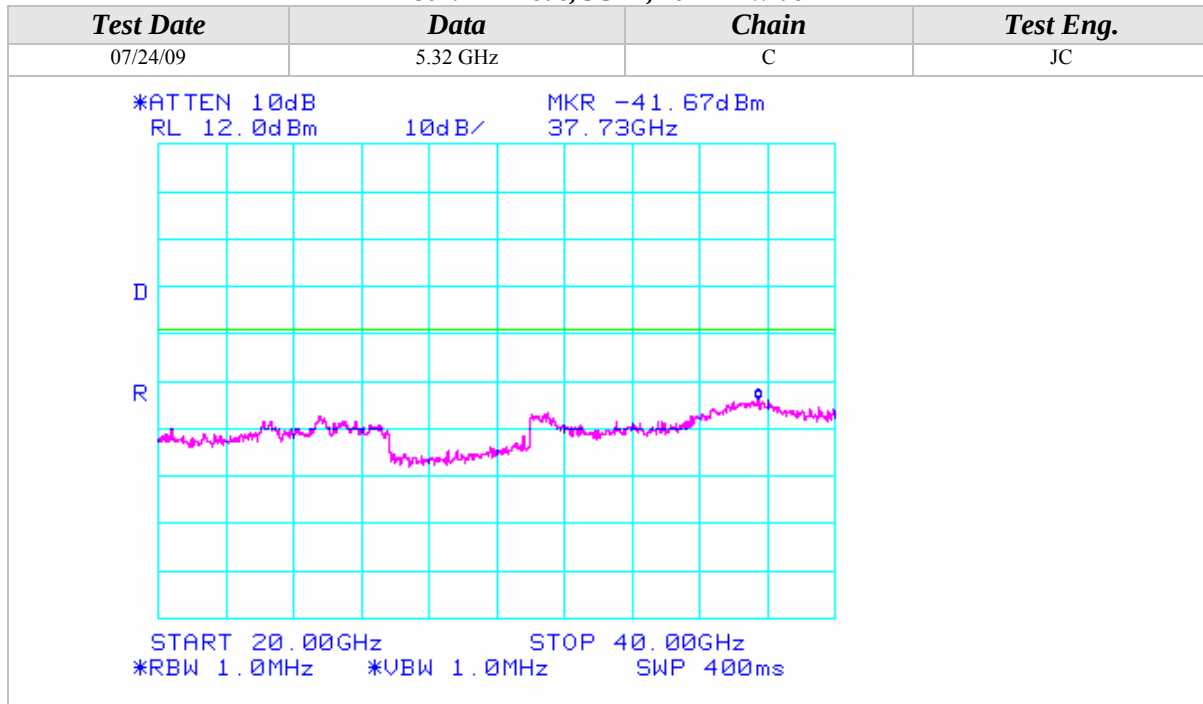
802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.32 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.17dBm 9.876GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.32 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -46.83dBm 15.00GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



Conducted Out Of Band Emissions (Continued)

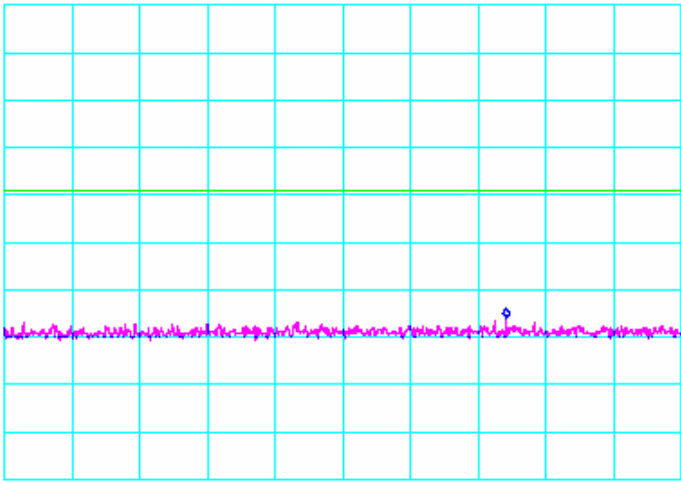
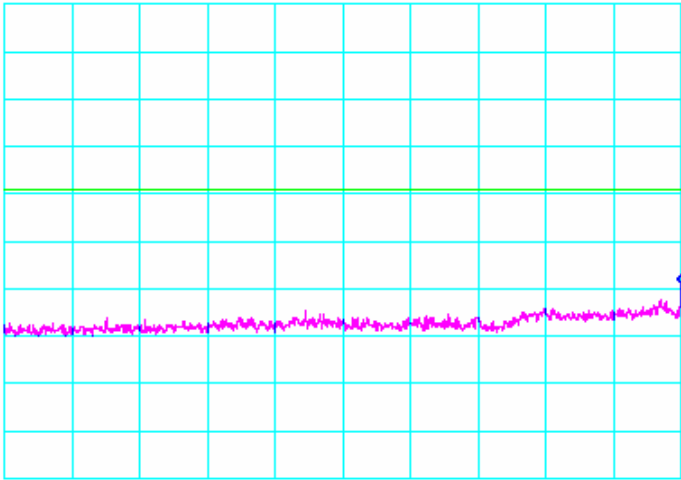
802.11n Mode, 5GHz, 20MHz Wide





Conducted Out Of Band Emissions (Continued)

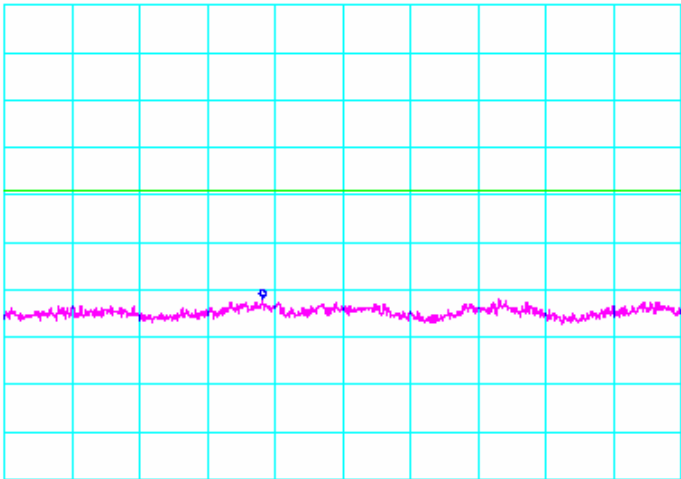
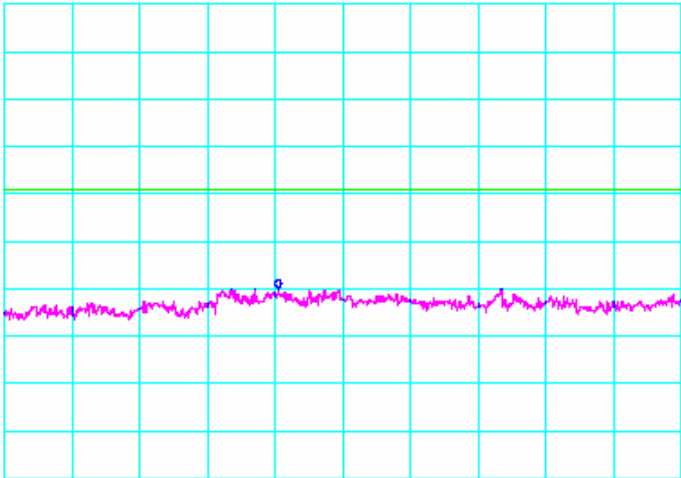
802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.50 GHz	C	JC
*ATTEN 10dB MKR -54.00dBm RL 12.0dBm 10dB/ 749.4MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.50 GHz	C	JC
*ATTEN 10dB MKR -47.00dBm RL 12.0dBm 10dB/ 5.460GHz  START 1.000GHz STOP 5.460GHz *RBW 1.0MHz *VBW 1.0MHz SWP 90.0ms			



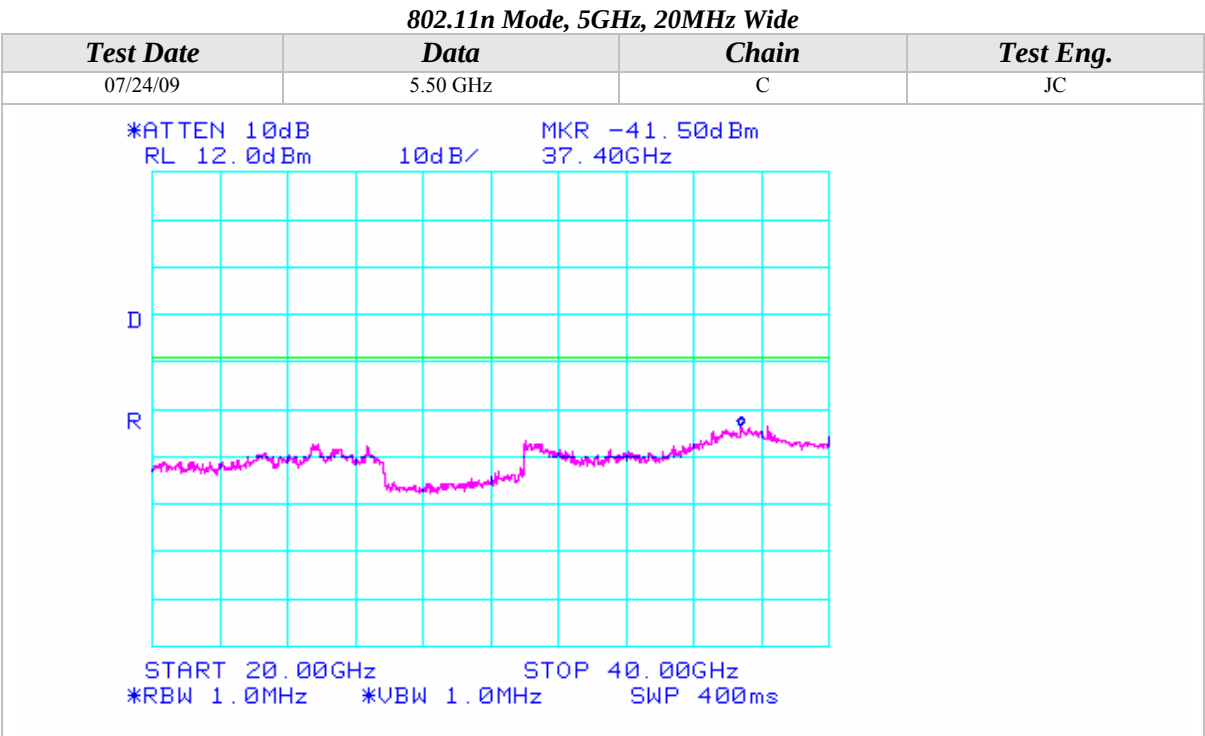
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.50 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.83dBm 7.357GHz  START 5.725GHz *RBW 1.0MHz STOP 10.000GHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.50 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -48.00dBm 14.05GHz  START 10.00GHz *RBW 1.0MHz STOP 20.00GHz *VBW 1.0MHz SWP 200ms			



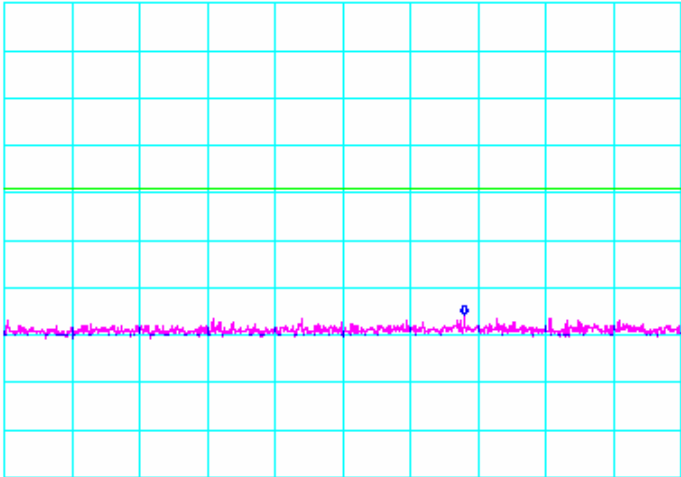
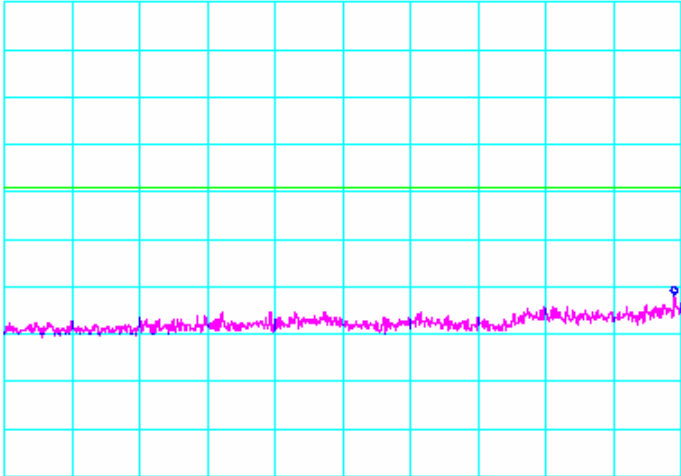
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

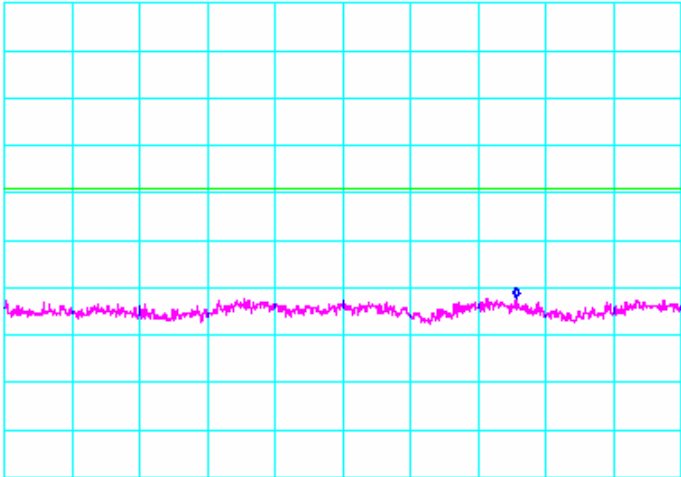
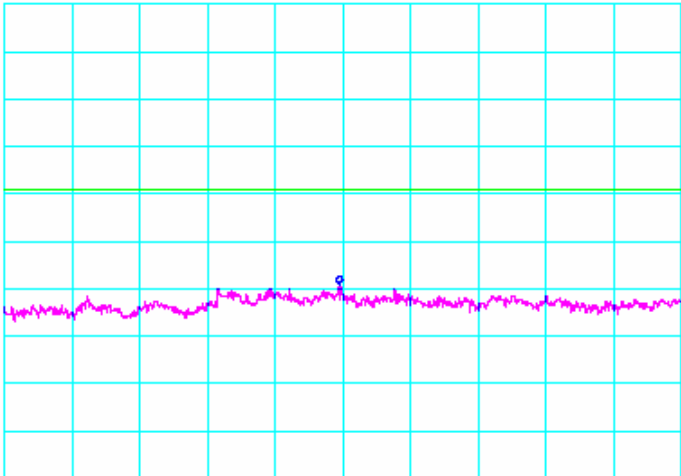
802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.60 GHz	C	JC
*ATTEN 10dB MKR -53.83dBm RL 12.0dBm 10dB/ 689.6MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.60 GHz	C	JC
*ATTEN 10dB MKR -49.83dBm RL 12.0dBm 10dB/ 5.415GHz  START 1.000GHz STOP 5.460GHz *RBW 1.0MHz *VBW 1.0MHz SWP 90.0ms			



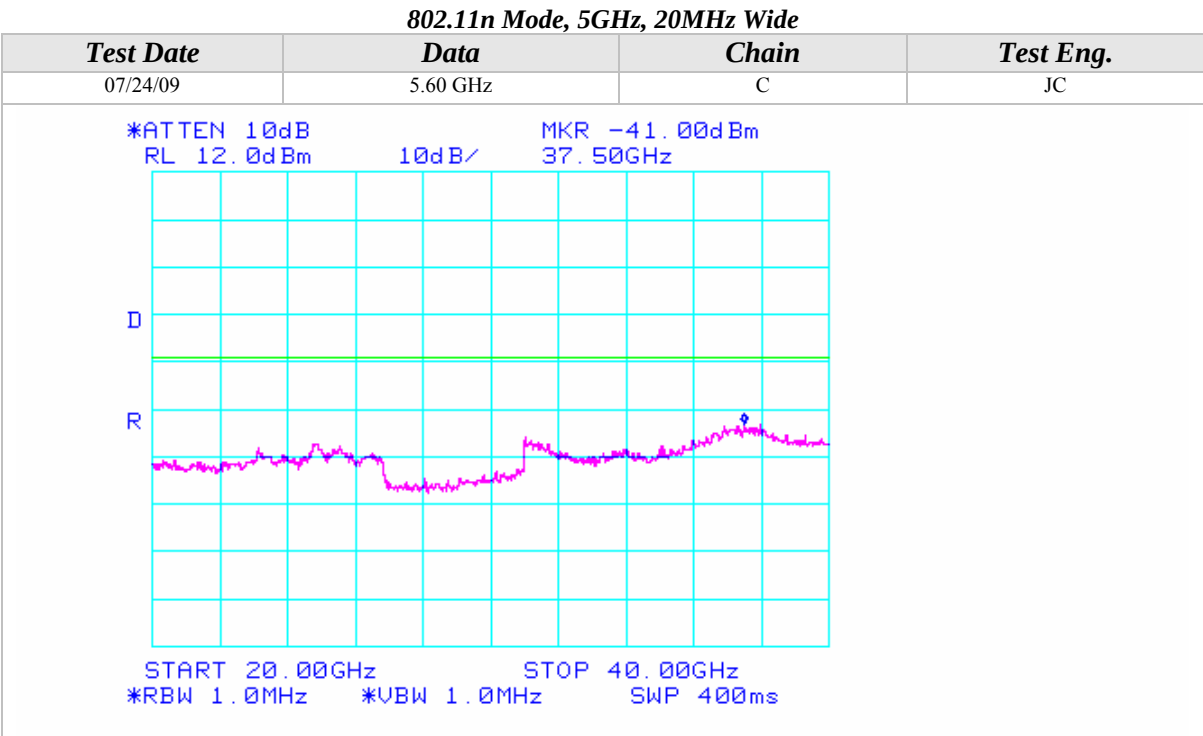
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.60 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -50.17dBm 8.960GHz  START 5.725GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.60 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.17dBm 14.95GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			

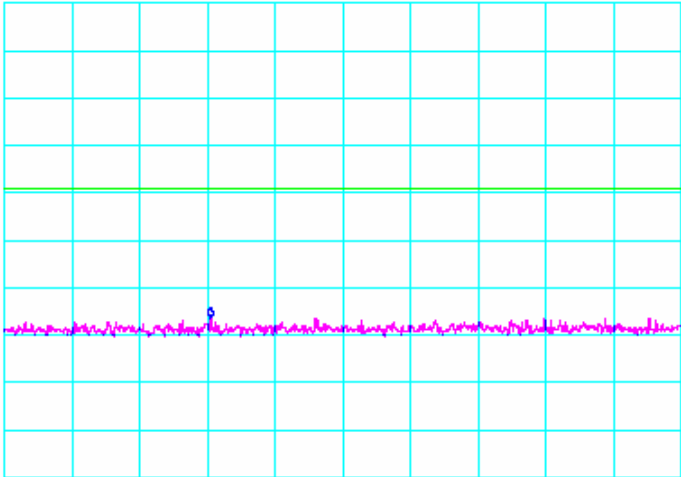
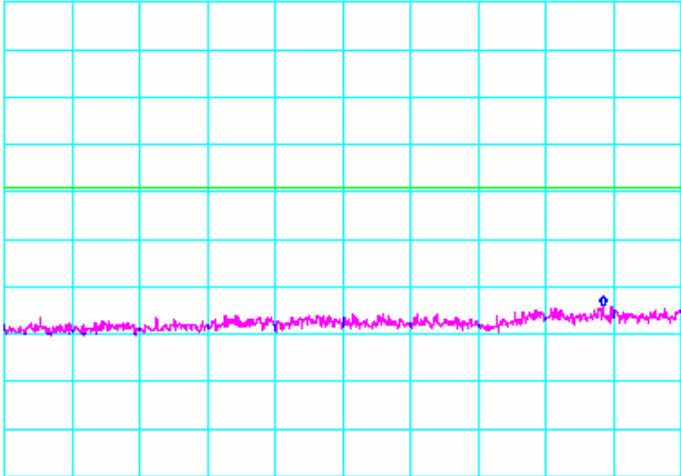


Conducted Out Of Band Emissions (Continued)





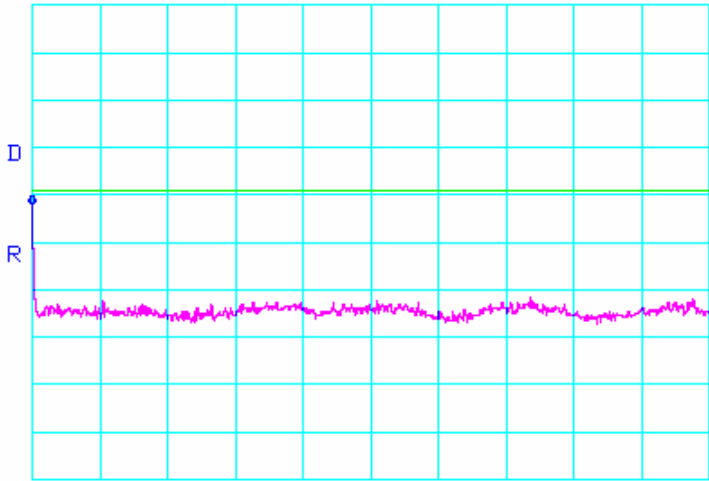
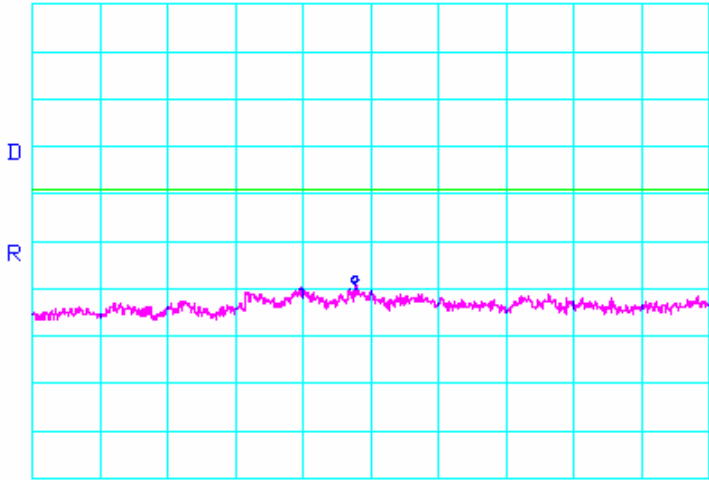
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide			
Test Date	Data	Chain	Test Eng.
07/24/09	5.70 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.33dBm 325.9MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.70 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -52.00dBm 4.947GHz  START 1.000GHz STOP 5.460GHz *RBW 1.0MHz *VBW 1.0MHz SWP 90.0ms			



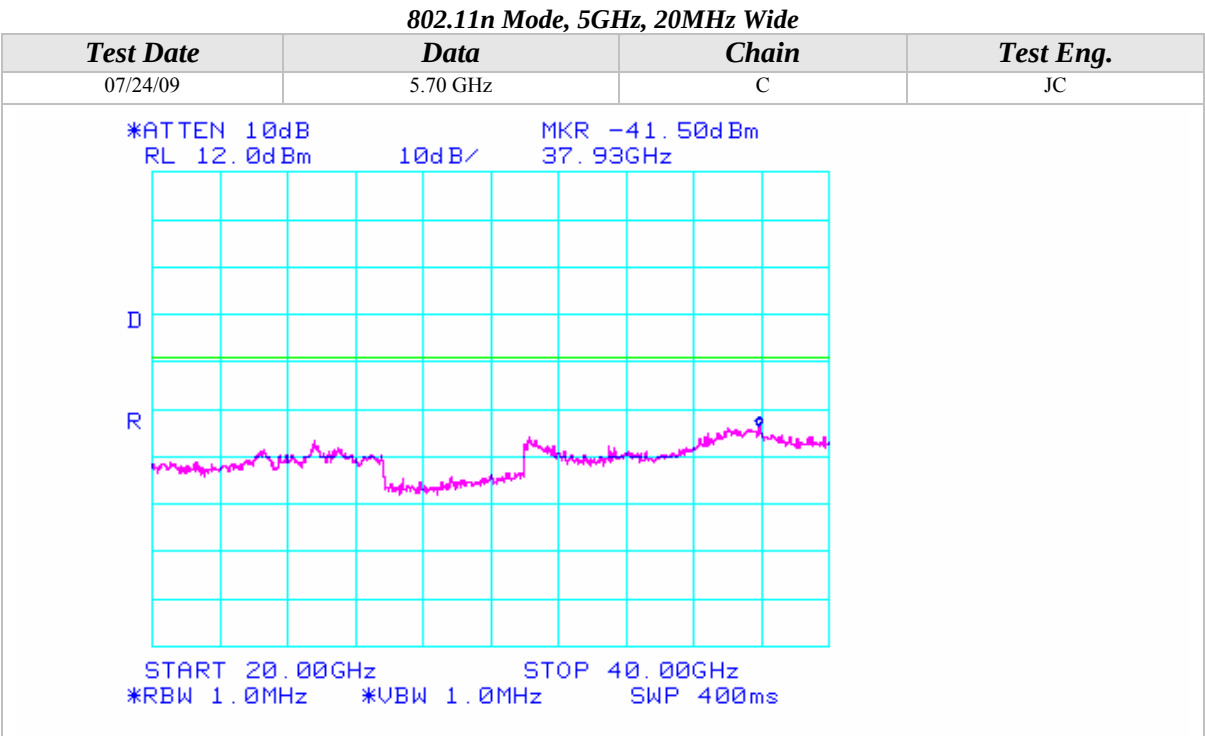
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 20MHz Wide

Test Date	Data	Chain	Test Eng.
07/24/09	5.70 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -30.17dBm 5.725GHz  START 5.725GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/24/09	5.70 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.17dBm 14.77GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



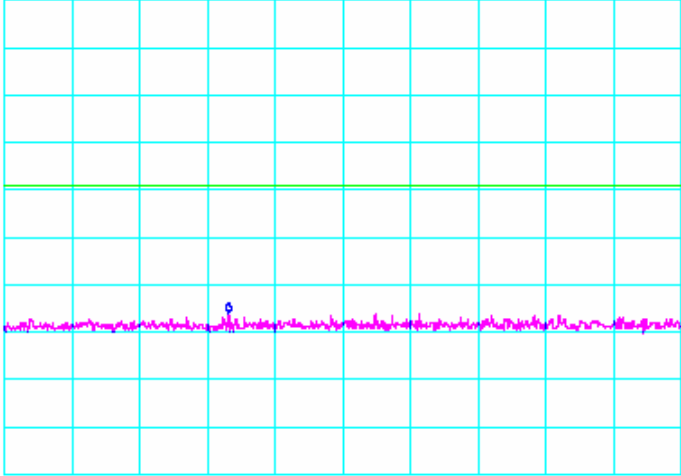
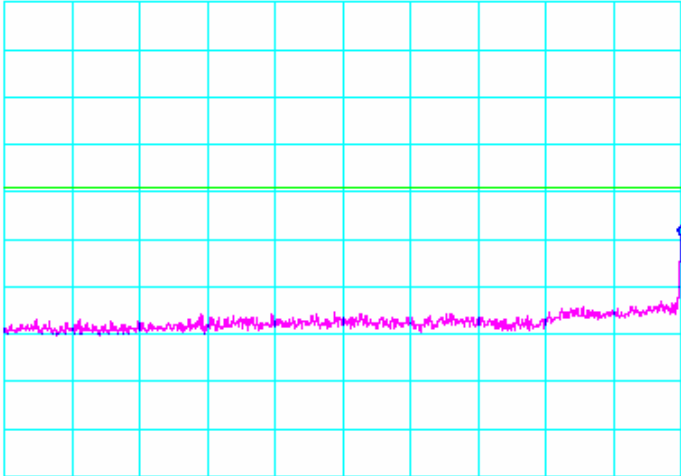
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

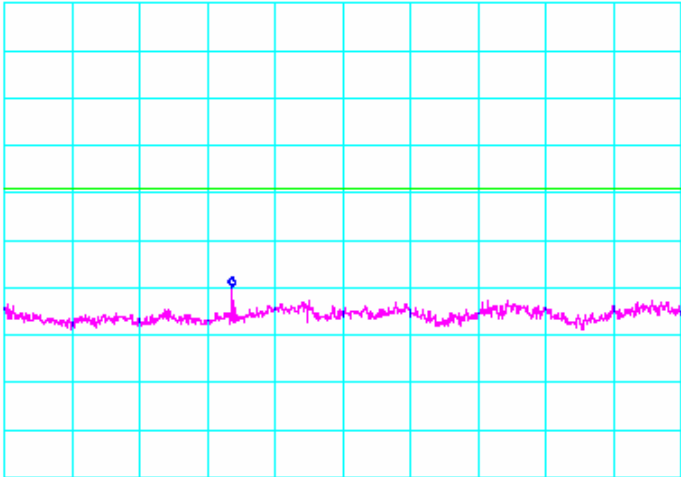
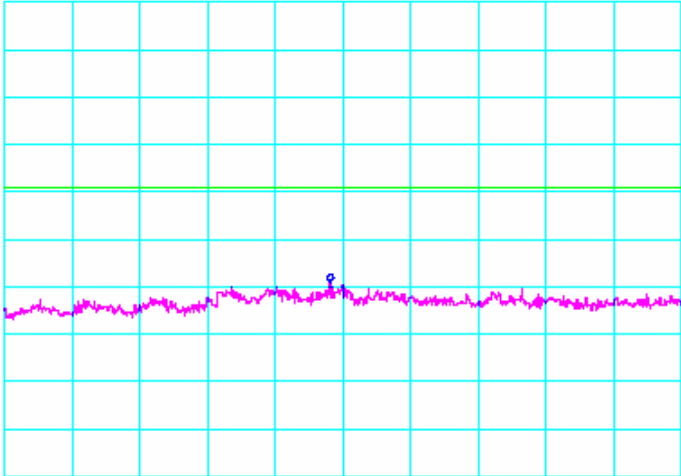
802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.19 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.00dBm 351.7MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.19 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -37.17dBm 5.150GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



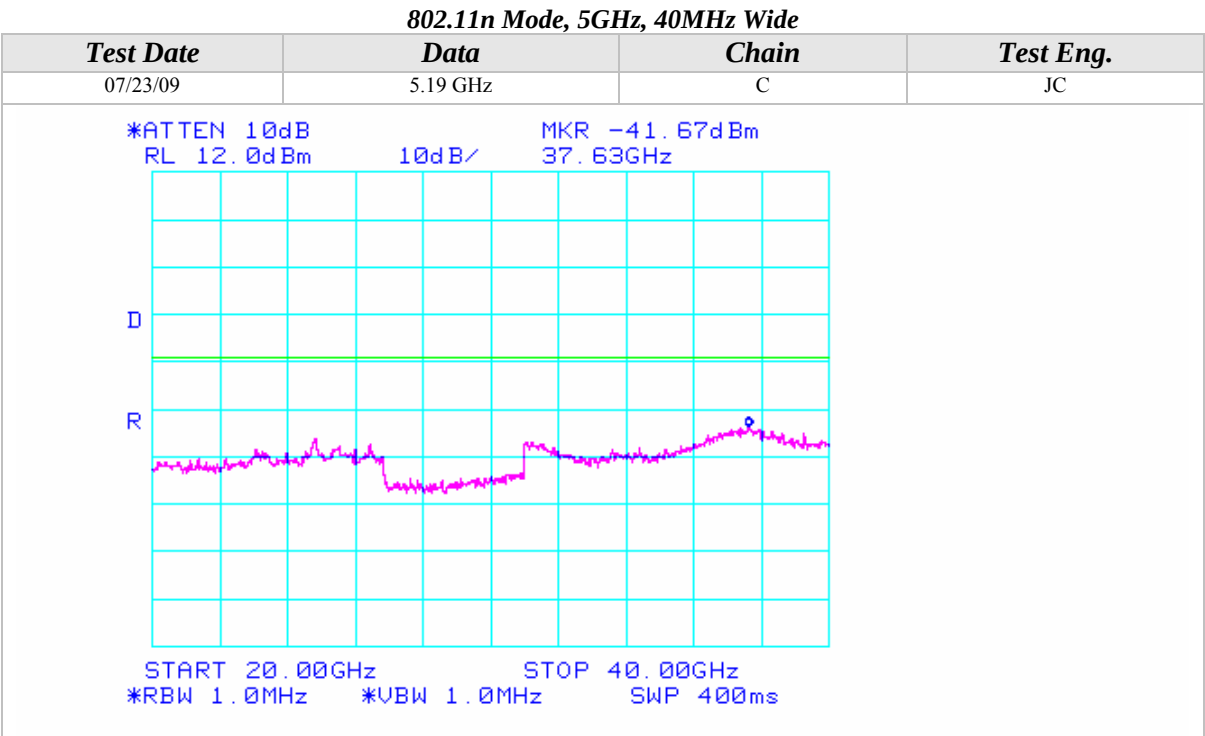
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.19 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.83dBm 6.916GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.19 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.17dBm 14.82GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



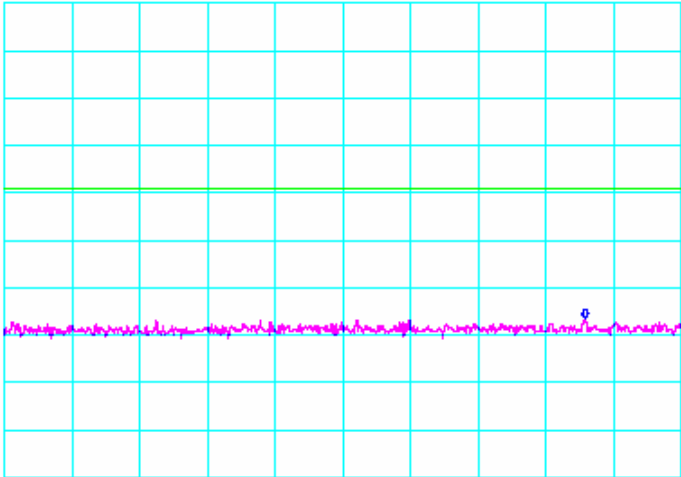
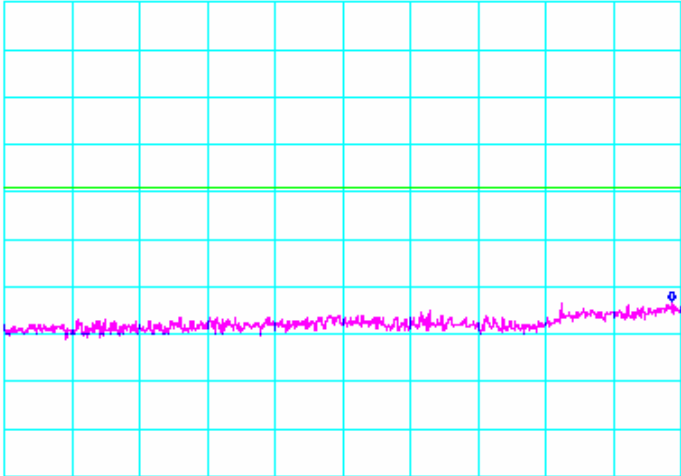
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

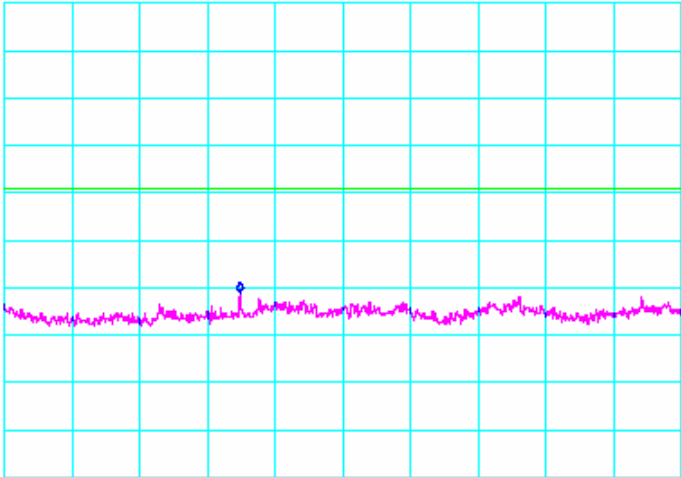
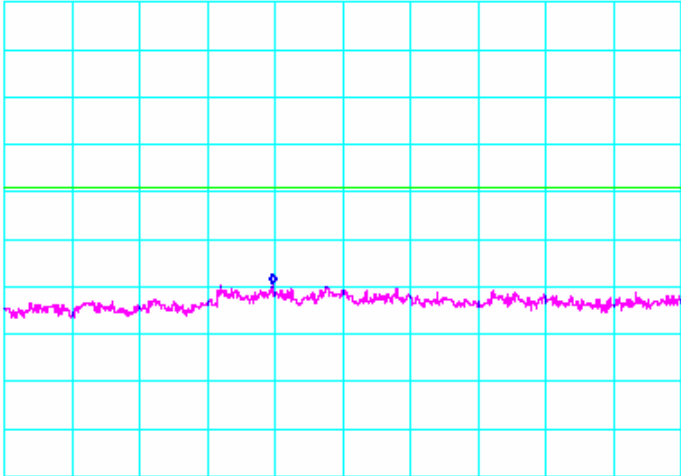
802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.23 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.50dBm 862.6MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.23 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -51.17dBm 5.095GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



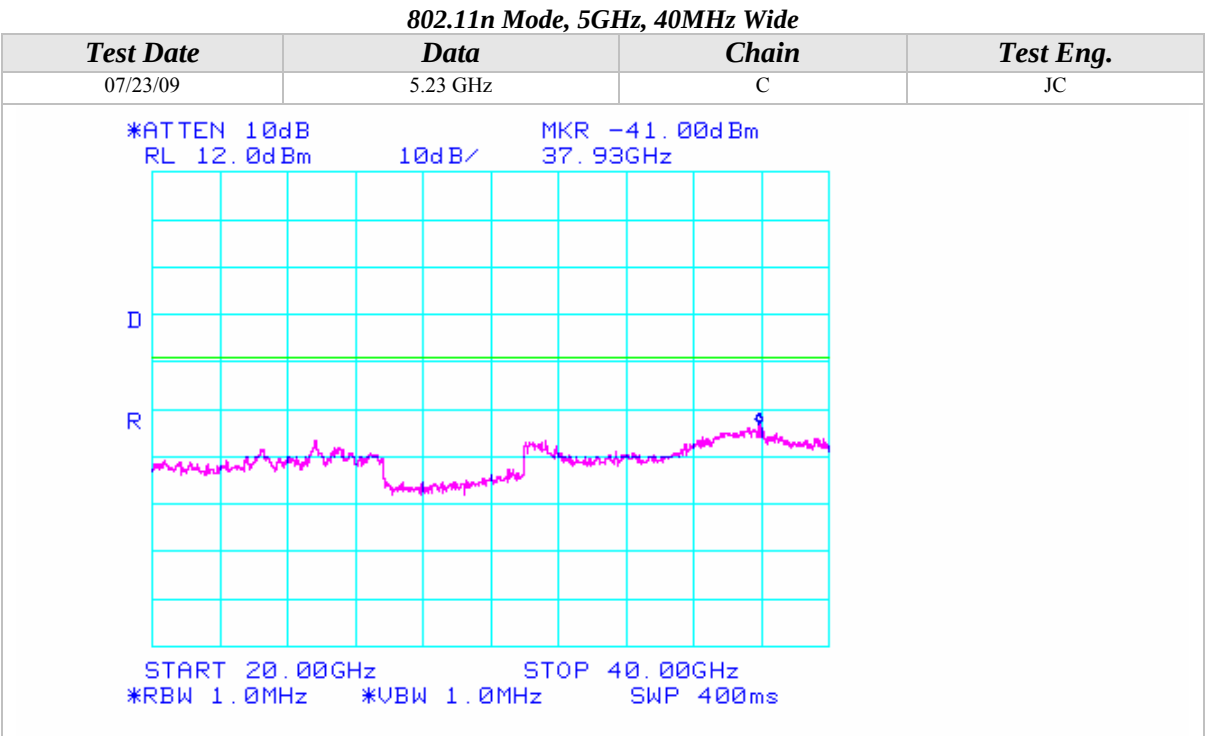
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.23 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.00dBm 6.970GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.23 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.33dBm 13.97GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



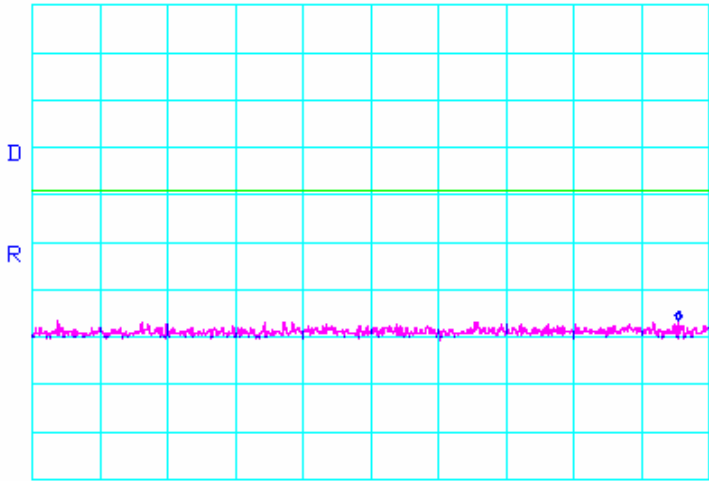
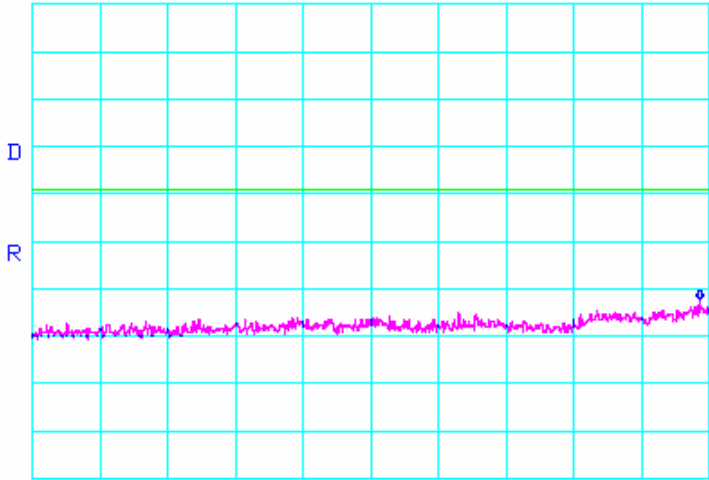
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

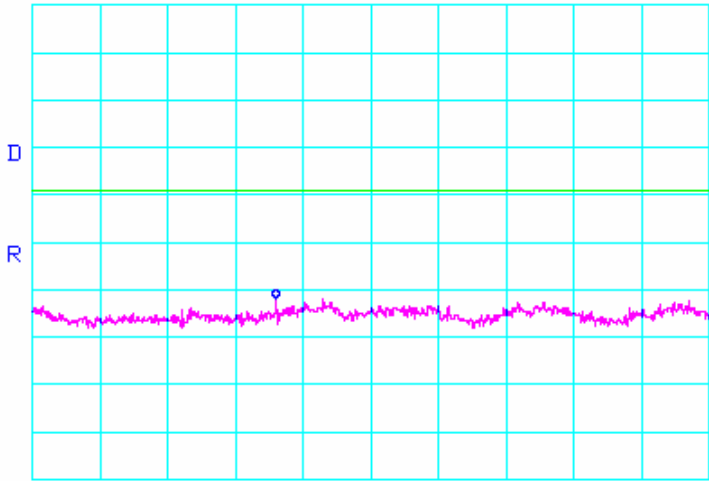
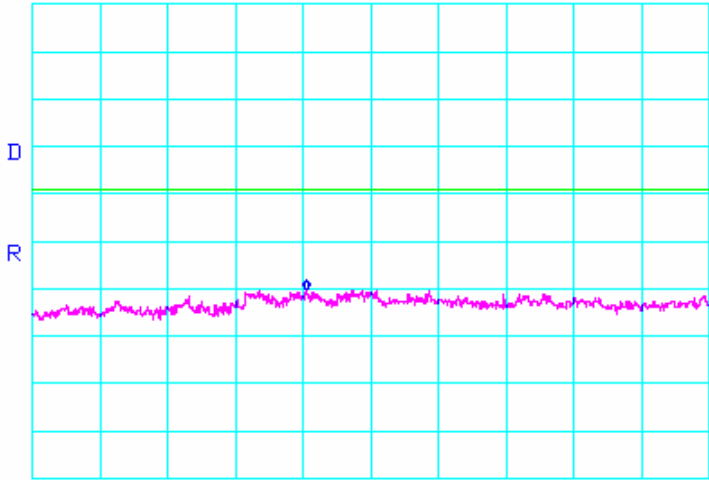
802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.27 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.50dBm 956.4MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.27 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -50.33dBm 5.095GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



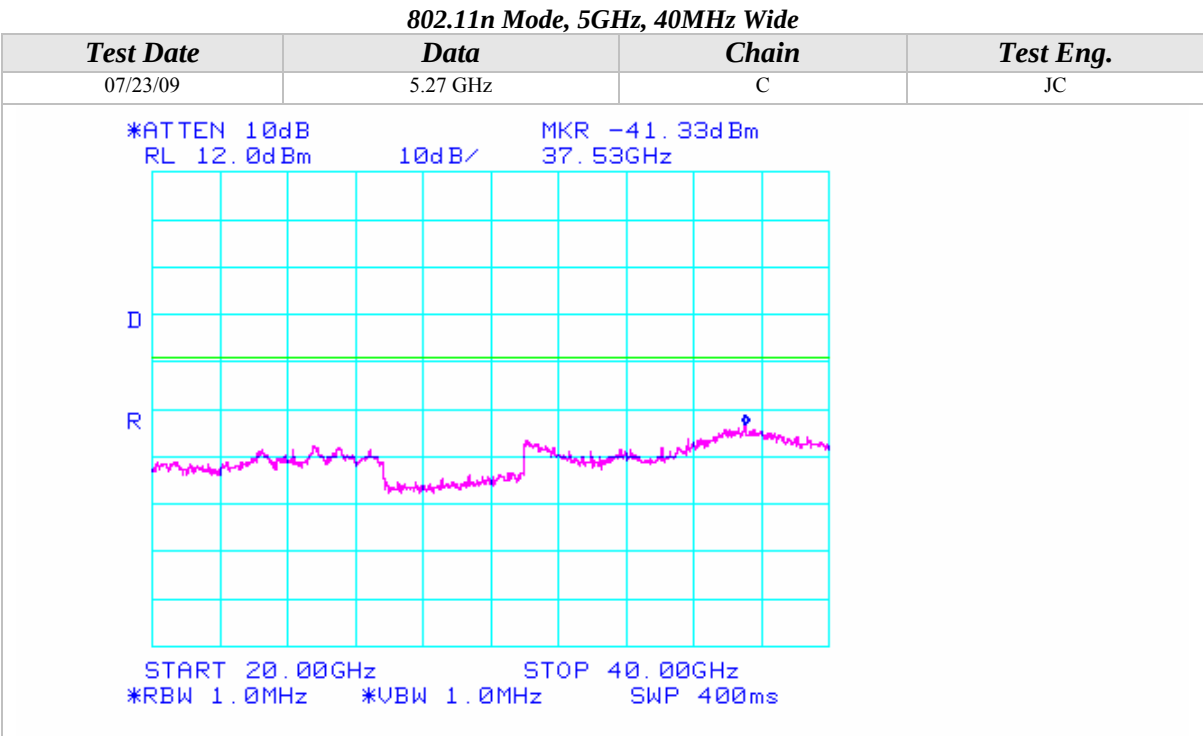
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.27 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.83dBm 7.024GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.27 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -48.17dBm 14.05GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			

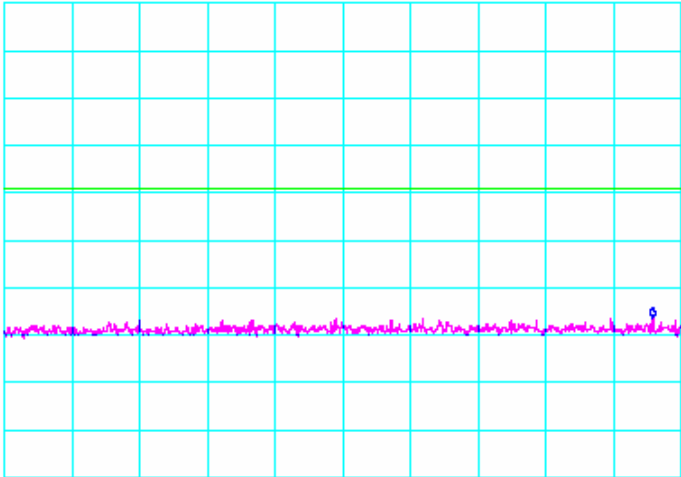
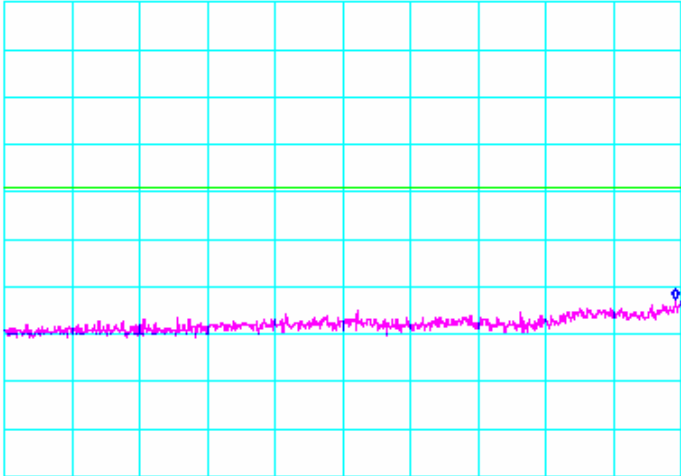


Conducted Out Of Band Emissions (Continued)





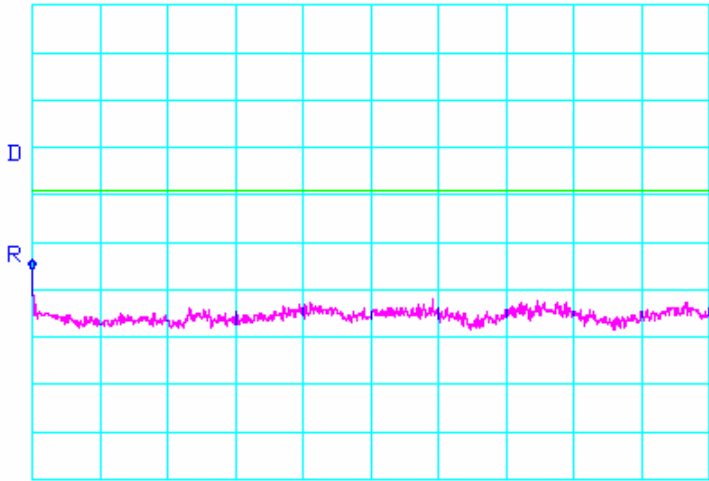
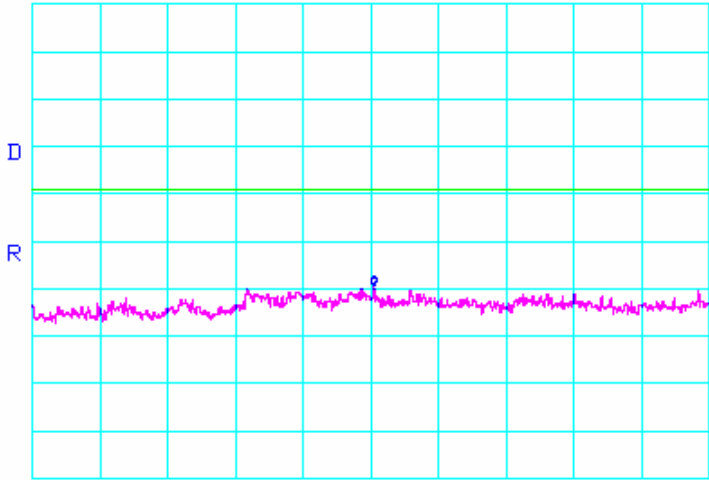
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide			
Test Date	Data	Chain	Test Eng.
07/23/09	5.31 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.33dBm 959.6MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.31 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -50.50dBm 5.115GHz  START 1.000GHz STOP 5.150GHz *RBW 1.0MHz *VBW 1.0MHz SWP 83.0ms			



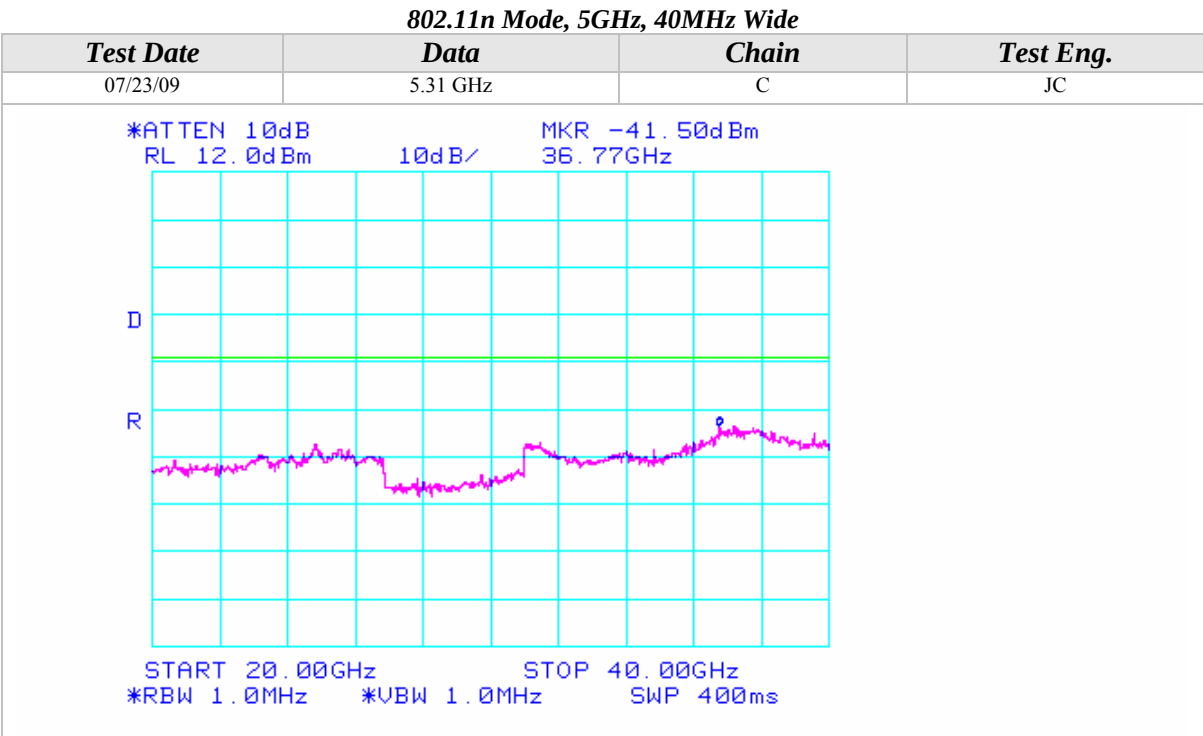
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.31 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -43.67dBm 5.350GHz  START 5.350GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 93.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.31 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.33dBm 15.05GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



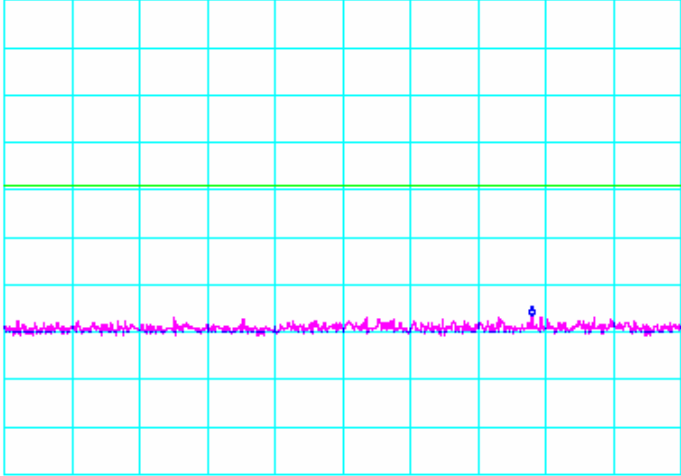
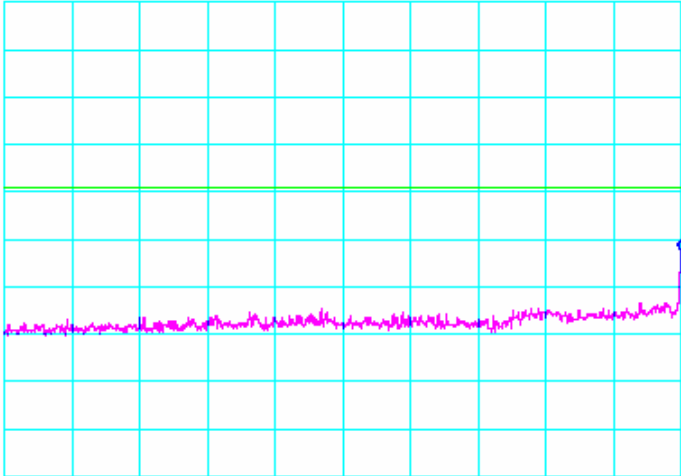
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

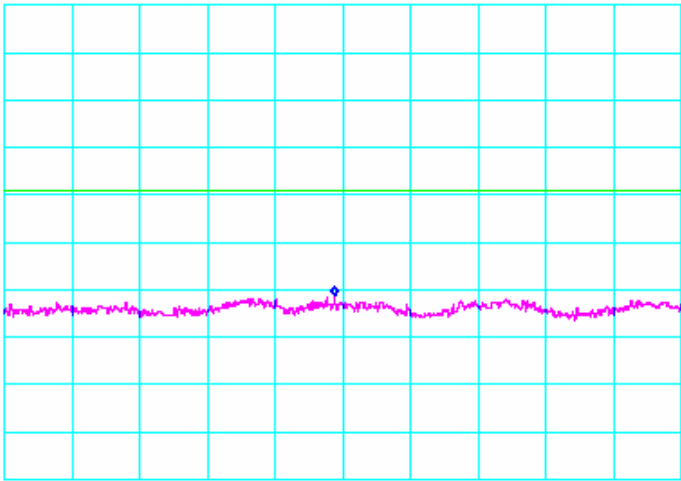
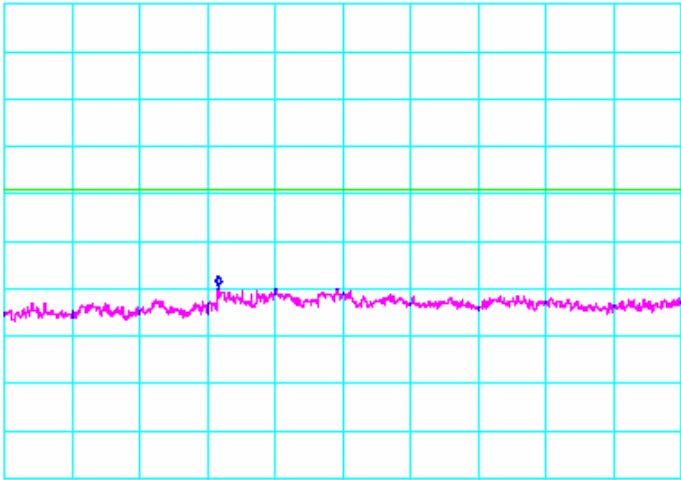
802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.51 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.67dBm 786.6MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.51 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -40.17dBm 5.460GHz  START 1.000GHz STOP 5.460GHz *RBW 1.0MHz *VBW 1.0MHz SWP 90.0ms			



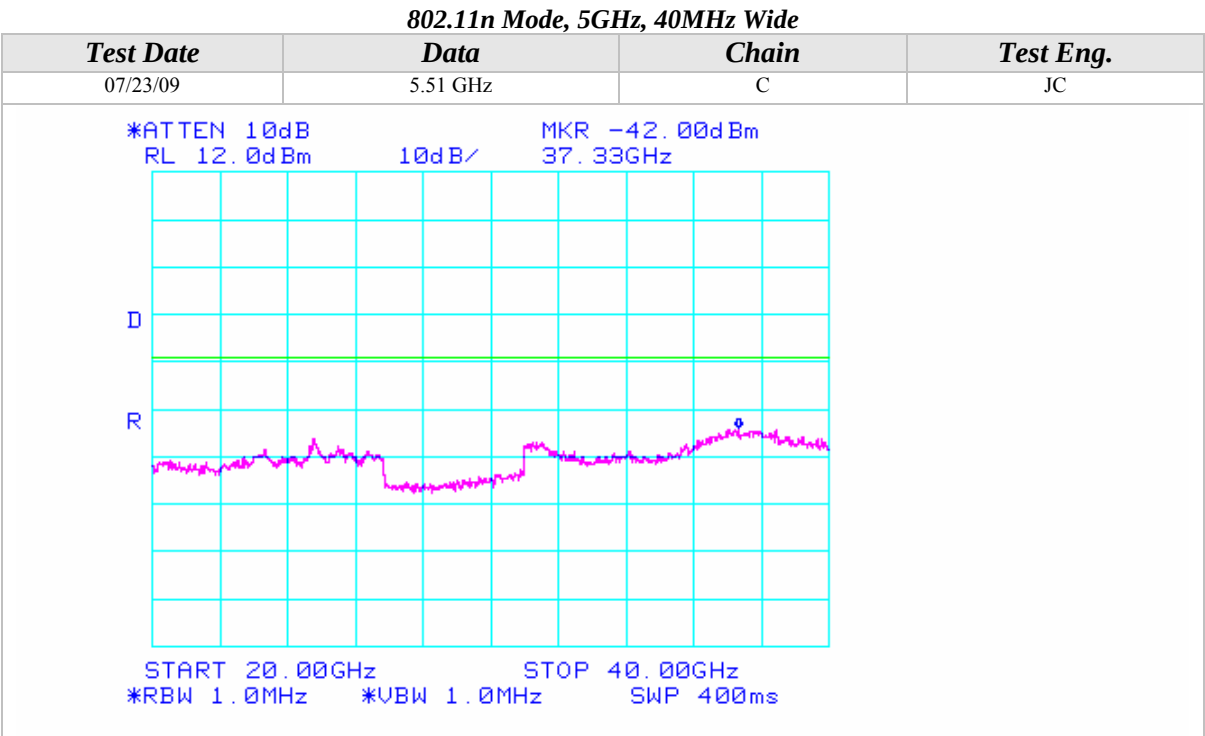
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.51 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -49.33dBm 7.813GHz  START 5.725GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.51 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.50dBm 13.17GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



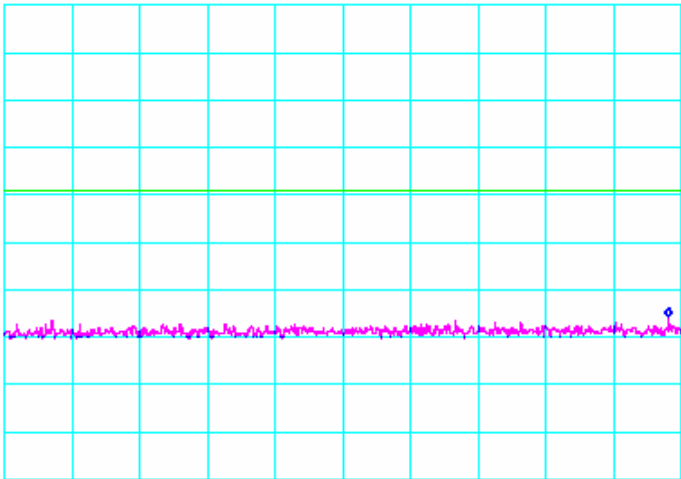
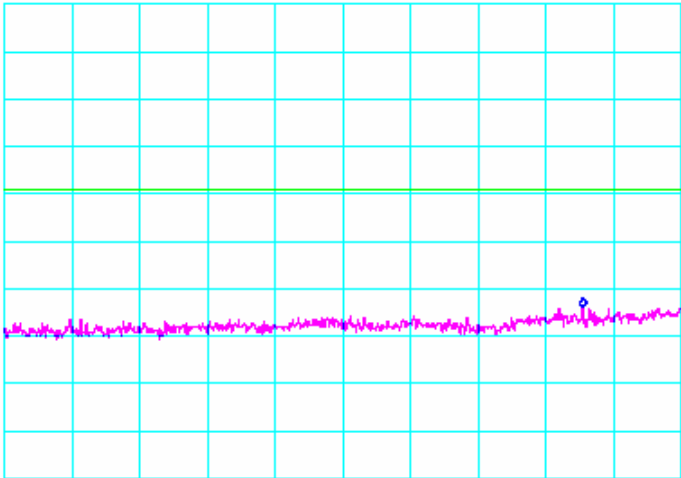
Conducted Out Of Band Emissions (Continued)





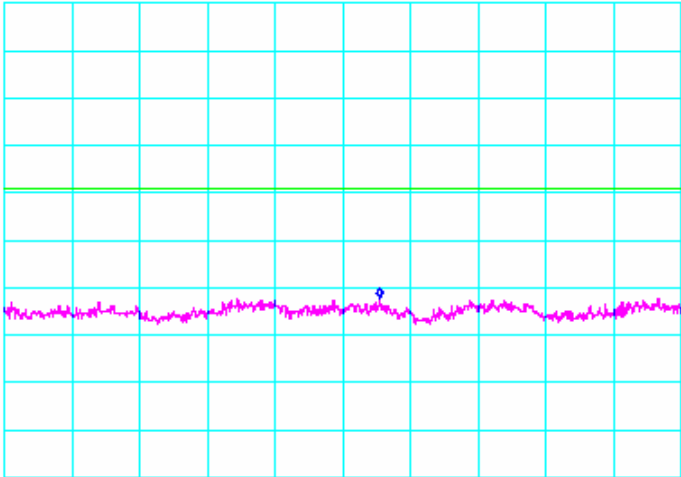
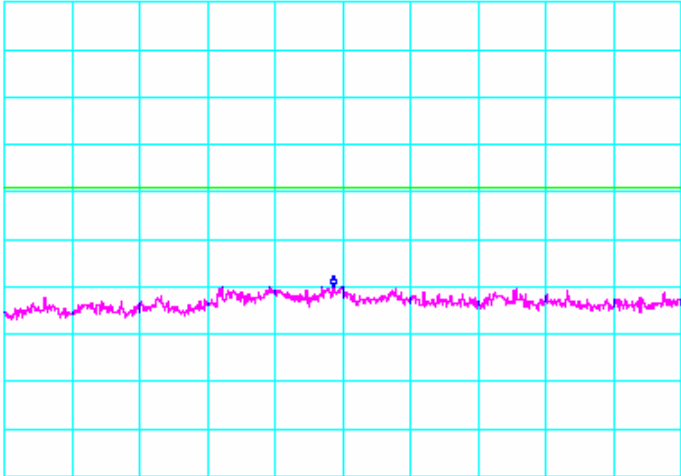
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.59 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -53.83dBm 982.2MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.59 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -52.00dBm 4.813GHz  START 1.000GHz STOP 5.460GHz *RBW 1.0MHz *VBW 1.0MHz SWP 90.0ms			

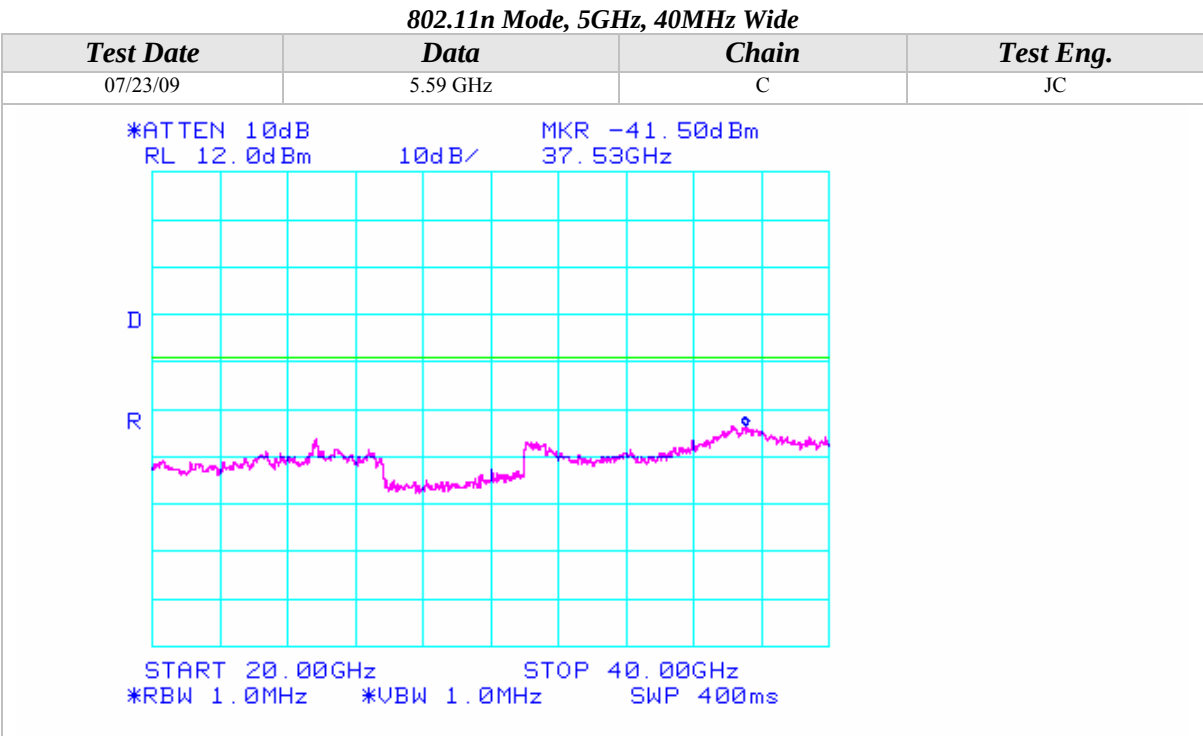


Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide			
Test Date	Data	Chain	Test Eng.
07/23/09	5.59 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -50.17dBm 8.098GHz  START 5.725GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.59 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.83dBm 14.87GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



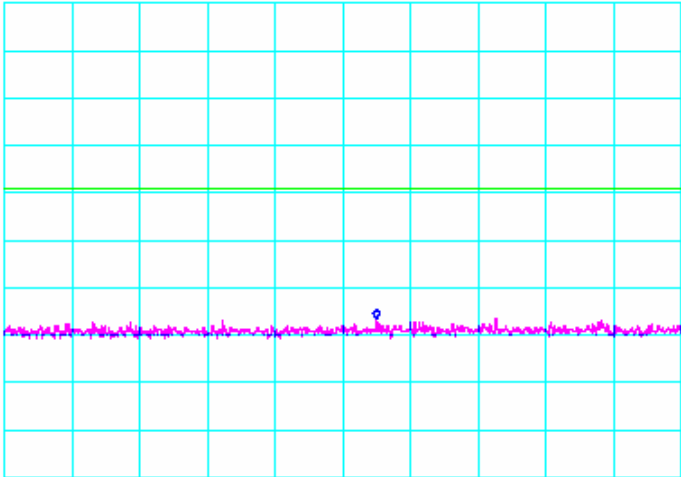
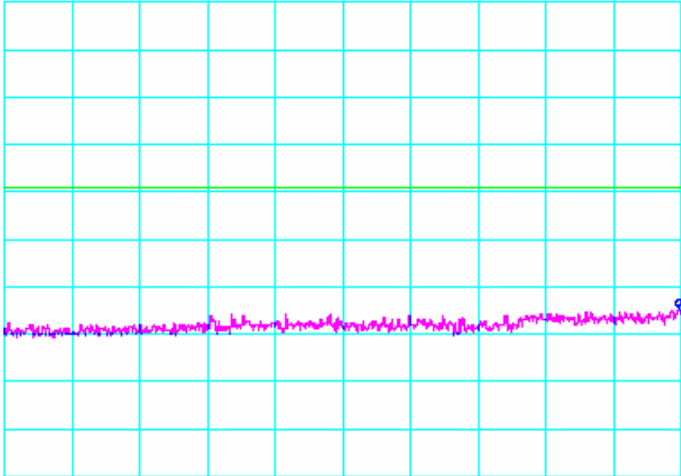
Conducted Out Of Band Emissions (Continued)





Conducted Out Of Band Emissions (Continued)

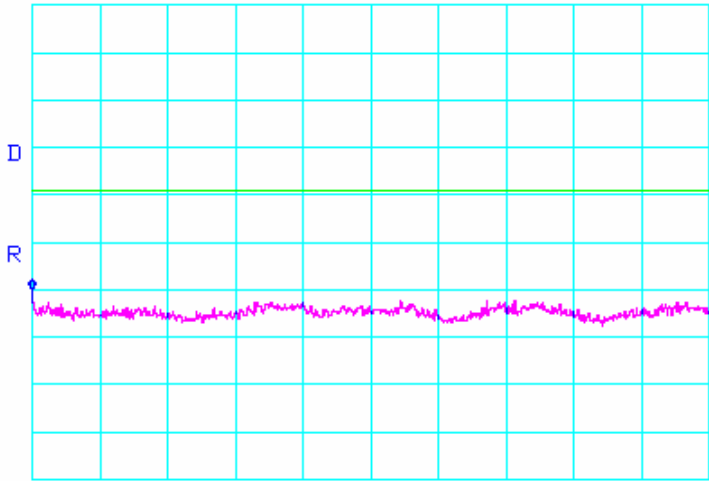
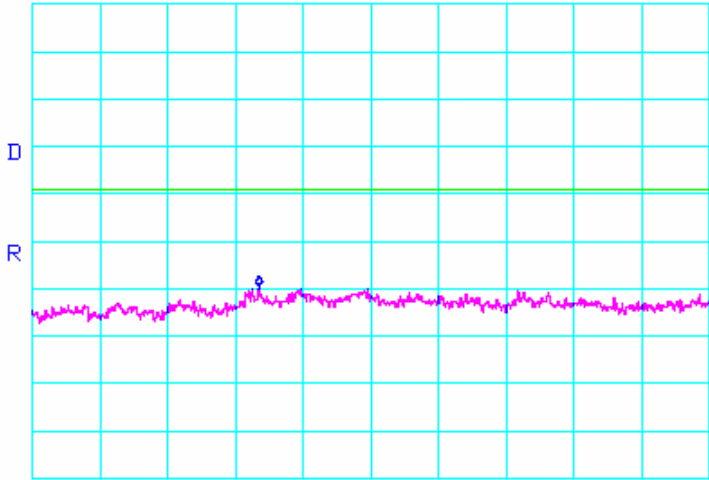
802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.67 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -54.50dBm 563.5MHz  START 30.0MHz STOP 1.0000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.67 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -52.50dBm 5.445GHz  START 1.000GHz STOP 5.460GHz *RBW 1.0MHz *VBW 1.0MHz SWP 90.0ms			



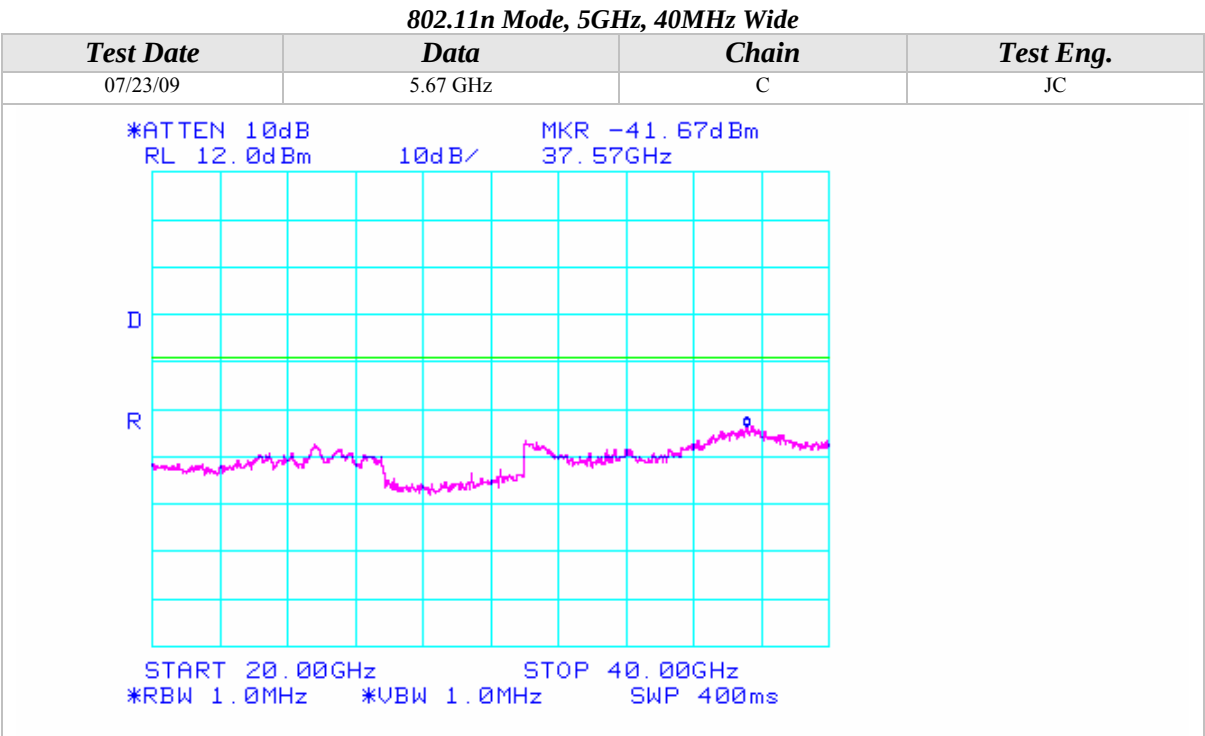
Conducted Out Of Band Emissions (Continued)

802.11n Mode, 5GHz, 40MHz Wide

Test Date	Data	Chain	Test Eng.
07/23/09	5.67 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.83dBm 5.725GHz  START 5.725GHz STOP 10.000GHz *RBW 1.0MHz *VBW 1.0MHz SWP 86.0ms			
Test Date	Data	Chain	Test Eng.
07/23/09	5.67 GHz	C	JC
*ATTEN 10dB RL 12.0dBm 10dB/ MKR -47.50dBm 13.35GHz  START 10.00GHz STOP 20.00GHz *RBW 1.0MHz *VBW 1.0MHz SWP 200ms			



Conducted Out Of Band Emissions (Continued)





APPENDIX B

MODIFICATIONS AND RECOMMENDATIONS

1.0	NONE