

Class II Permissive Change Test Report And Application for Grant of Equipment Authorization

TEST REPORT PERTAINING TO:

Equipment Under Test	Model Number(s)
Intel PRO/Wireless 3945ABG Network Connection	WM3945ABG

CONFIGURATION

802.11a / 802.11b / 802.11g with a set of Acon & WNC 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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Test Report #:

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NONE

Test Report Revision:

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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

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 = 23.33 MHz Per Original Filing				
15.407(a)(1)	Peak transmit power shall not exceed the lesser of 50mW or $4 \text{dBm}+10 \log \text{B}$ (where $\text{B} = 26 \text{dB}$ emissions bandwidth).	PASSED	5.18 GHz = 16.60dBm (45.71mW) 5.24 GHz = 16.80dBm (47.86mW)				
15.407(a)(1)	The peak power spectral density shall not exceed 4dBm in any 1MHz band.	PASSED	5.18 GHz = 1.93dBm Per Original Filing				
15.407(a)(1)	Peak transmit 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 Original Filing				
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 Ban	d					
15.407(a)(2)	26dB emissions bandwidth in MHz.	N/A	5.26 GHz = 23.33 MHz 5.32 GHz = 25.33 MHz <i>Per Original Filing</i>				
15.407(a)(2)	Peak transmit power shall not exceed the lesser of 250 mW or 11 dBm+ 10 logB (where B = 26 dB emissions bandwidth).	PASSED	5.26 GHz = 18.10dBm (64.57mW) 5.32 GHz = 18.30dBm (67.61mW)				
15.407(a)(2)	The peak power spectral density shall not exceed 11dBm in any 1MHz band.	PASSED	5.26 GHz = 2.60dBm 5.32 GHz = 2.12dBm <i>Per Original Filing</i>				
15.407(a)(2)	Peak transmit 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 Original Filing				
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				



2.0 Summary of Test Results (Continued)

EMISSIONS STANDARD						
FCC Part Description		Results	Comments			
15 Section						
	General Requirements For All Ban	ls				
15.407(a)(6)	The ratio of the peak excursion of the modulation envelope to the	PASSED	5.18 GHz = 5.00 dB			
	peak transmit power shall not exceed 13dB across any 1 MHz		5.26 GHz = 5.00 dB			
	bandwidth or the emissions bandwidth whichever is less.		5.32 GHz = 5.00 dB			
			Per Original Filing			
15.407(f)	Radio frequency radiation exposure requirement.	PASSED	Refer to SAR Test Report			
15.407(b)(6)	UNII devices using AC power line are required to comply with the	PASSED	See Original Filing			
15.207	conducted limits set forth in Section 15.207.					

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

Test and Report Completed By:

09/28/07

Date:

Johnny Candelas Test Technician Aegis Labs, Inc. **Report Approved By:**

11/05/07

Rick Candelas Date: Quality Assurance & EMC Lab Manager Aegis Labs, Inc.



3.0 ADMINISTRATIVE DATA AND TEST DESCRIPTION

DEVICE TESTED:	ITE Type: Intel PRO/Wireless 3945ABG Network Connection Model Number(s): WM3945ABG Serial Number: 00F712365CVD26436002 FCC ID: E2KWM3945ABG
DATE EUT RECEIVED:	September 14 th , 2007
TEST DATE(S):	September 15 th – November 2 nd , 2007
ORIGIN OF TEST SAMPLE(S):	Production
EQUIPMENT CLASS:	EUT tested as CLASS B device
RESPONSIBLE PARTY:	Dell Computer Corporation One Dell Way Round Rock, TX 78682
OF IENT CONTACT.	Mr. Jacob Lineard
CLIENT CONTACT:	Mr. Jason Limoges
MANUFACTURER:	Dell Computer Corporation
TEST LOCATION:	Aegis Labs, Inc. 32231 Trabuco Creek Road Trabuco Canyon, CA 92678 Open Area Test Site #2
ACCREDITATION CERTIFICATE(s):	A2LA Certificate Number: 1111.01, Valid through February 28, 2008
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 PRO/Wireless 3945ABG Network Connection			
Model Number:	WM3945ABG	WM3945ABG		
Frequency Range:	5.15-5.35 GHz			
Enclosure:	The EUT contains it's own shield made of aluminum approximately 2.5cm wide by 2cm deep by 2mm high.			
Transfer Rate:	6/36/54 Mbps			
Antenna Type:	Acon: IFA (Main/Aux)	WNC: IFA (Main/Aux)		
Antenna Gain (See Note 2):	-0.20 dBi @ 5 GHz	1.92 dBi @ 5 GHz		
Transmit Output Power:	16 dBm (Typical) for 5.15-5.25 GHz 18 dBm (Typical) for 5.25-5.35 GHz Please see Appendix A (Data Sheets) for actual output power.			
Power Supply:	3.3VDC from computer MPCI slot.			
Number of External Test Ports Exercised:	2 Antenna Ports (1 Main & 1 Auxiliary)			

The Intel PRO/Wireless 3945ABG Network Connection is an embedded 802.11a/b/g network adapter operating in the 2.4 GHz and 5 GHz spectrum. The EUT is based on the Mini Card form factor designed to meet the space and size requirements for thin and light notebook PCs. It is capable of a data rate of up to 52 Mbps.

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 Acon & WNC Antennas. (Refer to the antenna specifications exhibits).



4.2 EUT Configuration

The EUT was tested installed in the Mini PCI-E slot of the host computer. The EUT was then connected to a set of antennas via its Main and Aux antenna ports. Data for a set of Acon & WNC Antennas can be found in Appendix A (Data Sheets).

The low, middle, and high channels were tested in 802.11a, b, & g modes. Also, the EUT was tested once transmitting from the Main antenna port and once transmitting from the Aux antenna port. The EUT was placed in either continuous transmit or continuous receive mode by a program provided by the manufacturer *(CRTU Version 4.1.28.0000)*.

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4.3 List of EUT, Sub-Assemblies and Host Equipment

Equipment Under Test					
ManufacturerEquipment NameModel or Part NumberSerial Num					
Intel Corporation	Intel PRO/Wireless 3945ABG Network Connection	WM3945ABG	00F712365CVD26436002		

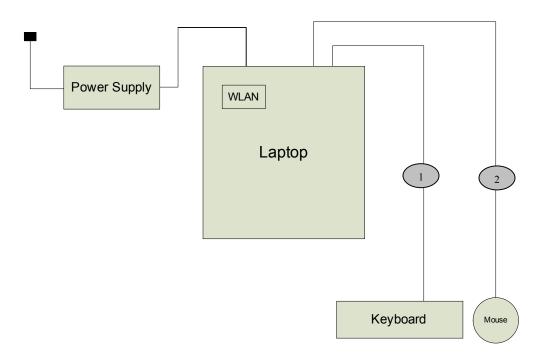
EUT Sub Assemblies					
Manufacturer	Equipment Name	Model or Part Number	Serial Number		
Dell	Host Computer	Inspiron 1525	CN-0SE2C1-70166-77N-013B		
Advanced-Connectek Inc.	Main Multi Band Antenna	AMP8P-700036	N/A		
Advanced-Connectek Inc.	Auxiliary Multi Band Antenna	APP8P-700002	N/A		
Dell	Host Computer	Inspiron 1525	CN-0SE2C1-70166-77N-002C		
Wistron NeWeb Corp.	Main Multi Band Antenna	81.EG615.001	N/A		
Wistron NeWeb Corp.	Auxiliary Multi Band Antenna	81.EG615.003	N/A		
Dell	Host Computer	XPS M1530	PS069869		
Advanced-Connectek Inc.	Main Multi Band Antenna	APP8P-700001	N/A		
Advanced-Connectek Inc.	Auxiliary Multi Band Antenna	APM6P-700026	N/A		
Dell	Host Computer	XPS M1530	PS069916		
Wistron NeWeb Corp.	Main Multi Band Antenna	81.EG515.001	N/A		
Wistron NeWeb Corp.	Auxiliary Multi Band Antenna	81.EG515.003	N/A		

HOST EQUIPMENT LIST			
Manufacturer	Equipment Name	Model or Part Number	Serial Number
Keyboard	Logitech	Y-BF37	MCTZ5200581
Mouse	Logitech	M-BJ58	LZE14759424

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



4.4 I/O Cabling Diagram and Description



	Signal Line Cable Description												
Cable	Length	Construction	Source Connector	Destination Connector	Bundled Length	Ferrite Attached	Note						
1	1.5m	Round, Braid & Foil Shielded	Host Computer: Metallic 8-pin Mini DIN	Keyboard: Hardwired	N/A	N/A	N/A						
2	1.5m	Round, Braid & Foil Shielded	Host Computer: Metallic 8-pin Mini DIN	Mouse: Hardwired	N/A	N/A	N/A						



4.5 EMC Test Hardware and Software Measurement Equipment

	TEST EQUIPMENT LIST - Emissions											
Equipment Name	Manufacturer	Model Number	Serial Number	Calibration Due Date	Maintenance Calibration Cycle							
Spectrum Analyzer	Agilent	8565EC	3946A00245	07/24/08	1 Year							
Antenna – Horn	EMCO	3115	2230	05/15/08	1 Year							
Preamp	Miteq	JS42-01001800-25- 10P	815980	09/21/08	1 Year							
28 Foot Coax	Semflex	S1L29BFS1348	608	07/26/08	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	02/08/08	1 Year							
Antenna - 26.5-40 GHz Pre-amplified Horn	Aegis Labs, Inc.	H028	GM1260-10	02/08/08	1 Year							
Power Meter	Anritsu	ML2487A	6K00001785	05/29/08	1 Year							
Wide Bandwidth Sensor	Anritsu		31193	05/29/08	1 Year							
12dB Attenuator	Narda	4779-12	203	06/09/08	1 Year							
Temperature/Humidity Monitor	Dickson	TH550	7255185	04/13/08	1 Year							

NCR – No Calibration Required.



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

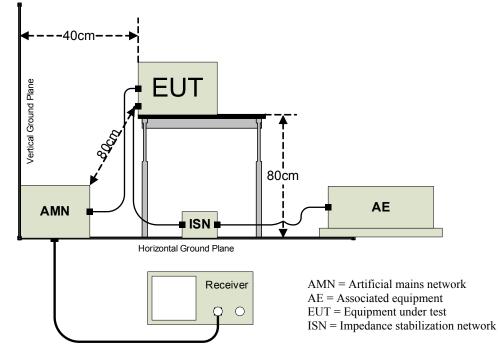
The following was the test configuration.

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.



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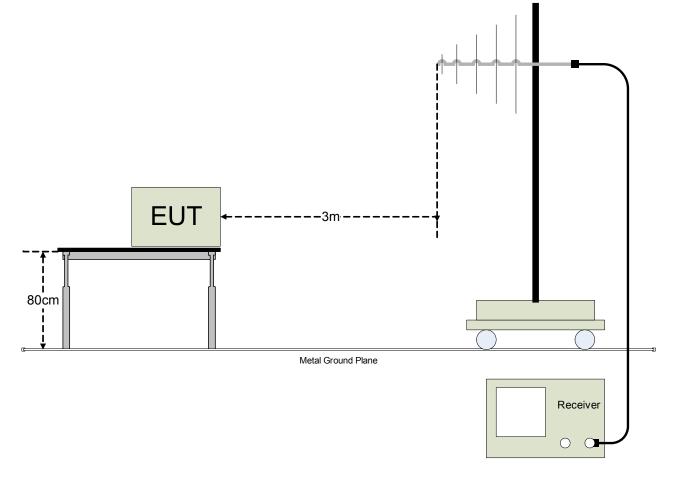
5.3 Radiated Emissions Test Setup

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.



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APPENDIX A

TEST DATA

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RADIATED EMISSIONS TEST RESULTS

CLIENT:	Dell Computer Corporation	DATE:	10/01/07
EUT:	Intel PRO/Wireless 3945ABG Network Connection	PROJECT NUMBER:	INTEL-070911
MODEL NUMBER:	WM3945ABG	TEST ENGINEER:	JC
SERIAL NUMBER:	00F712365CVD26436002	SITE #:	2
CONFIGURATION:	Tested installed in the Spears host computer's mini PCI slot in 802.11a (5150-5350 MHz) mode with WNC Antennas.	TEMPERATURE: HUMIDITY: TIME:	25 deg. C 35% RH 11:00 AM

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)	< -20 dBc									
		74.00 (Peak)										

Radiated Emissions Sample Calculations

Corrected Meter Reading = 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:

CML = Specification Limit - F - C + D

Fundamental Measurements in **802.11a mode (5150-5350 MHz)** Channels 36, 48, 52, & 64 **Continuous TX** at MAIN Antenna port Spears platform with **WNC Antennas** Aegis Labs, Inc. File #: INTEL-070911-02

	RADIATED EMISSIONS - Horizontal Antenna Polarization Freq. Meter Antenna Azimuth Ouasi pk or Cable Ant. Corrected Limits Diff (dB) Comments													
Freq.	Meter	Antenna	Azimuth	Quasi pk	Quasi pk or		Ant.	Corrected	Limits	Diff (dB)	Comments			
(MHz)	Reading	Height	(degrees)	AVG (dBı	ıV)	Factor	Factor	Reading	(dBuV)	+=FAIL				
	(dBuV)	(cm)				(dB)	(dB)	(dBuV)						
5180.00	62.33	100	270			2.98	34.62	99.93			Ch. 36			
5180.00				50.83	Α	2.98	34.62	88.43						
5240.00	62.83	100	315			3.00	34.73	100.56			Ch. 48			
5240.00				50.67	Α	3.00	34.73	88.40						
5260.00	63.37	100	315			3.00	34.77	101.14			Ch. 52			
5260.00				51.67	Α	3.00	34.77	89.44						
5320.00	63.00	100	315			3.02	34.88	100.90			Ch. 64			
5320.00				51.33	A	3.02	34.88	89.23						

RADIATED EMISSIONS – Vertical Antenna Polarization

Freq.	Meter	Antenna	Azimuth	Quasi pk	Quasi pk or		Ant.	Corrected	Limits	Diff(dB)	Comments			
(MHz)	Reading	Height	(degrees)	AVG (dBi	AVG (dBuV)		Factor	Reading	(dBuV)	+=FAIL				
	(dBuV)	(cm)				(dB)	(dB)	(dBuV)						
5180.00	63.00	100	225			2.98	34.39	100.37			Ch. 36			
5180.00				50.83	Α	2.98	34.39	88.20						
5240.00	63.50	100	225			3.00	34.48	100.98			Ch. 48			
5240.00				51.67	Α	3.00	34.48	89.15						
5260.00	64.50	100	225			3.00	34.52	102.02			Ch. 52			
5260.00				52.00	Α	3.00	34.52	89.52						
5320.00	63.83	100	225			3.02	34.61	101.46			Ch. 64			
5320.00				51.67	Α	3.02	34.61	89.30						

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

Band Edge Field Strength Measurements in **802.11a mode (5150-5350 MHz)** Channels 36 & 64 **Continuous TX** at MAIN Antenna port Spears platform with **WNC Antennas** Aegis Labs, Inc. File #: INTEL-070911-02

	RADIATED EMISSIONS - Horizontal Antenna Polarization												
Freq.	Meter	Antenna	Azimuth	Quasi pk or	Cable	Ant.	Corrected	Limits	Diff (dB)	Comments			
(MHz)	Reading	Height	(degrees)	AVG (dBuV)	Factor	Factor	Reading	(dBuV)	+=FAIL				
	(dBuV)	(<i>cm</i>)			(dB)	(<i>dB</i>)	(dBuV)						
5150.00							54.27	74.00	-19.73	Ch. 36			
5150.00				A			37.77	54.00	-16.23				
5350.00							57.07	74.00	-16.93	Ch. 64			
5350.00				A			42.07	54.00	-11.93				
5353.00							60.07	74.00	-13.93				
5353.00				A			40.73	54.00	-13.27				

	RADIATED EMISSIONS – Vertical Antenna Polarization													
Freq.	Meter	Antenna	Azimuth	Quasi pk or	Cable	Ant.	Corrected	Limits	Diff (dB)	Comments				
(MHz)	Reading	Height	(degrees)	AVG (dBuV)	Factor	Factor	Reading	(dBuV)	+=FAIL					
	(dBuV)	(cm)			(dB)	(dB)	(dBuV)							
5150.00							54.71	74.00	-19.29	Ch. 36				
5150.00				A			37.54	54.00	-16.46					
5350.00							57.63	74.00	-16.37	Ch. 64				
5350.00				A			42.14	54.00	-11.86					
5353.00							60.63	74.00	-13.37					
5353.00				A			40.80	54.00	-13.20					

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

 $BE = Fm - \Delta m$

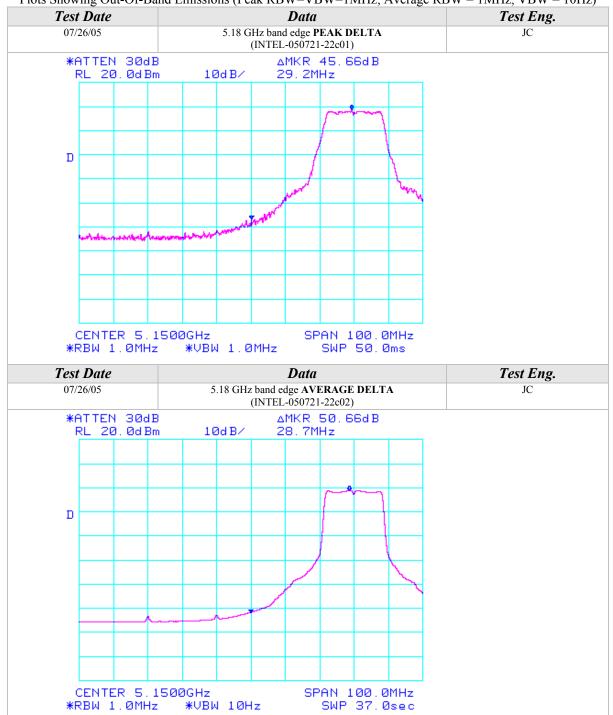
Where

BE = Band Edge Field Strength

Fm = Measured Fundamental (Peak or Average)

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

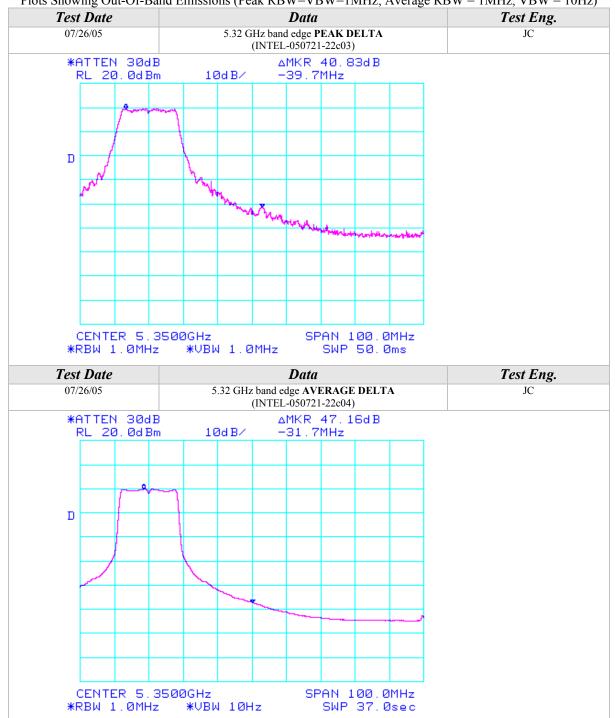




Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)

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Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)

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Spurious Emissions Measurements in **802.11a mode (5150-5350 MHz)** Channels 36, 52, & 64 **Continuous TX** at MAIN Antenna port Spears platform with **WNC Antennas** Aegis Labs, Inc. File #: INTEL-070911-04

	RADIATED EMISSIONS - Horizontal Antenna Polarization													
Freq. (MHz)	Meter	Antenna	Azimuth	Quasi pl	Quasi pk or		Cable	Ant.	Corrected	Limits	Diff (dB)	Comments		
	Reading	Height	(degrees)	AVG (dB	uV)	Factor	Factor	Factor	Reading	(dBuV)	+=FAIL			
	(dBuV)	(<i>cm</i>)				(dB)	(dB)	(dB)	(dBuV)					
3453.33	51.50	100	180			46.60	2.41	32.29	39.60	68.00	-28.40	Ch. 36		
6906.66	52.33	100	180			45.19	3.47	35.91	46.52	68.00	-21.48			
10359.99	54.67	100	225			44.47	4.39	38.62	53.20	68.00	-14.80			
3506.66	51.67	100	225			46.60	2.43	32.41	39.92	68.00	-28.08	Ch. 52		
7013.32	52.17	100	225			45.04	3.51	36.03	46.67	68.00	-21.33			
10519.98	51.83	100	225			44.52	4.44	38.71	50.46	68.00	-17.54			
3546.66	51.83	100	225			46.59	2.45	32.50	40.19	68.00	-27.81	Ch. 64		
7093.32	50.50	100	225			45.01	3.53	36.24	45.26	68.00	-22.74			
10639.98	54.00	100	225			44.67	4.46	38.76	52.54	74.00	-21.46			
10639.98				41.73	Α	44.67	4.46	38.76	40.27	54.00	-13.73			

	RADIATED EMISSIONS - Vertical Antenna Polarization													
Freq. (MHz)	Meter	Antenna	Azimuth	Quasi ph	Quasi pk or		Cable	Ant.	Corrected	Limits	Diff (dB)	Comments		
	Reading	Height	(degrees)	AVG (dB	uV)	Factor	Factor	Factor	Reading	(dBuV)	+=FAIL			
	(dBuV)	(cm)				(<i>dB</i>)	(dB)	(dB)	(dBuV)					
3453.33	55.67	100	180			46.60	2.41	31.80	43.28	68.00	-24.72	Ch. 36		
6906.66	52.33	100	135			45.19	3.47	35.83	46.43	68.00	-21.57			
10359.99	55.50	100	225			44.47	4.39	38.59	54.01	68.00	-13.99			
3506.66	53.00	100	135			46.60	2.43	31.92	40.75	68.00	-27.25	Ch. 52		
7013.32	51.33	100	135			45.04	3.51	35.93	45.73	68.00	-22.27			
10519.98	54.33	100	225			44.52	4.44	38.70	52.96	68.00	-15.04			
3546.66	52.83	100	135			46.59	2.45	32.02	40.71	68.00	-27.29	Ch. 64		
7093.32	50.50	100	180			45.01	3.53	36.14	45.16	68.00	-22.84			
10639.98	57.67	100	225			44.67	4.46	38.73	56.18	74.00	-17.82			
10639.98				45.24	Α	44.67	4.46	38.73	43.75	54.00	-10.25			



Spurious Emissions Measurements in **802.11a mode (5150-5350 MHz)** Channels 36, 52, & 64 **Continuous TX** at MAIN Antenna port Spears platform with **WNC Antennas** Aegis Labs, Inc. File #: INTEL-070911-05

	RADIATED EMISSIONS - Horizontal Antenna Polarization													
Freq. (MHz)	Meter Reading (dBuV)		Azimuth (degrees)	Quasi pl AVG (dB		Cable Factor (dB)	Antenna/ Preamp Factor (dB)	Corrected Reading (dBuV/m)	Limits (dBuV/m)	Diff(dB) +=FAIL	Comments			
20720.00	50.83	100	180			10.07	-3.36	57.54	74.00	-16.46	Ch. 36			
20720.00				37.54	Α	10.07	-3.36	44.25	54.00	-9.75				
21040.00	49.33	100	225			10.20	-3.33	56.20	74.00	-17.80	Ch. 52			
21040.00				36.46	Α	10.20	-3.33	43.33	54.00	-10.67				
21280.00	49.83	100	225			10.22	-3.38	56.67	74.00	-17.33	Ch. 64			
21280.00				36.85	Α	10.22	-3.38	43.69	54.00	-10.31				

	RADIATED EMISSIONS - Vertical Antenna Polarization														
Freq.	Meter	Antenna	Azimuth	Quasi pl	k or	Cable Factor	Antenna/	Corrected	Limits	Diff (dB)	Comments				
(MHz)	Reading	Height	(degrees)	AVG (dB	uV)	(<i>dB</i>)	Preamp	Reading	(dBuV/m)	+=FAIL					
	(dBuV)	(cm)					Factor (dB)	(dBuV/m)							
20720.00	50.83	100	225			10.07	-3.29	57.62	74.00	-16.39	Ch. 36				
20720.00				37.30	Α	10.07	-3.29	44.09	54.00	-9.92					
21040.00	50.17	100	270			10.20	-3.28	57.09	74.00	-16.91	Ch. 52				
21040.00				36.58	Α	10.20	-3.28	43.50	54.00	-10.50					
21280.00	50.00	100	270			10.22	-3.24	56.99	74.00	-17.01	Ch. 64				
21280.00				36.98	Α	10.22	-3.24	43.97	54.00	-10.03					



Spurious Emissions Measurements in **802.11a mode (5150-5350 MHz)** Channels 36, 52, & 64 **Continuous RX** at MAIN Antenna port Spears platform with **WNC Antennas** Aegis Labs, Inc. File #: INTEL-070911-04

	RADIATED EMISSIONS - Horizontal Antenna Polarization														
Freq. (MHz)	Meter	Antenna	Azimuth	Quasi ph	k or	Preamp	Cable	Ant.	Corrected	Limits	Diff(dB)	Comments			
	Reading	Height	(degrees)	AVG (dB	AVG (dBuV)		Factor	Factor	Reading	(dBuV)	+=FAIL				
	(dBuV)	(cm)				(dB)	(dB)	(dB)	(dBuV)						
3453.33	51.17	100	135			46.60	2.41	32.29	39.27	74.00	-34.73	Ch. 36			
3453.33				39.43	Α	46.60	2.41	32.29	27.53	54.00	-26.47				
3506.66	52.17	100	135			46.60	2.43	32.41	40.42	74.00	-33.58	Ch. 52			
3506.66				40.06	Α	46.60	2.43	32.41	28.31	54.00	-25.69				
3546.72	51.67	100	135			46.59	2.45	32.50	40.03	74.00	-33.97	Ch. 64			
3546.72				40.32	A	46.59	2.45	32.50	28.68	54.00	-25.32				

	RADIATED EMISSIONS - Vertical Antenna Polarization														
Freq. (MHz)	Meter	Antenna	Azimuth	Quasi ph	k or	Preamp	Cable	Ant.	Corrected	Limits	Diff(dB)	Comments			
	Reading	Height	(degrees)	AVG (dB	AVG (dBuV)		Factor	Factor	Reading	(dBuV)	+=FAIL				
	(dBuV)	(cm)				(dB)	(dB)	(dB)	(dBuV)						
3453.33	55.50	100	180			46.60	2.41	31.80	43.11	74.00	-30.89	Ch. 36			
3453.33				43.37	Α	46.60	2.41	31.80	30.98	54.00	-23.02				
3506.68	52.50	100	180			46.60	2.43	31.92	40.25	74.00	-33.75	Ch. 52			
3506.68				41.57	Α	46.60	2.43	31.92	29.32	54.00	-24.68				
3546.66	52.83	100	180			46.59	2.45	32.02	40.71	74.00	-33.29	Ch. 64			
3546.66				41.88	A	46.59	2.45	32.02	29.76	54.00	-24.24				



RADIATED EMISSIONS TEST RESULTS

CLIENT:	Dell Computer Corporation	DATE:	09/17/07
EUT:	Intel PRO/Wireless 3945ABG Network Connection	PROJECT NUMBER:	INTEL-070911
MODEL NUMBER:	WM3945ABG	TEST ENGINEER:	JC
SERIAL NUMBER:	00F712365CVD26436002	SITE #:	2
CONFIGURATION:	Tested installed in the Hawke host computer's mini PCI slot in 802.11a (5150-5350 MHz) mode with WNC	TEMPERATURE: HUMIDITY:	25 deg. C 41% RH
	Antennas.	TIME:	1:45 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 I	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

Corrected Meter Reading = 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:

CML = Specification Limit - F - C + D

Fundamental Measurements in **802.11a mode (5150-5350 MHz)** Channels 36, 48, 52, & 64 **Continuous TX** at MAIN Antenna port Hawke platform with **WNC Antennas** Aegis Labs, Inc. File #: INTEL-070911-07

	RADIATED EMISSIONS - Horizontal Antenna Polarization														
Freq.	Meter	Antenna	Azimuth	Quasi pk	or	Cable	Ant.	Corrected	Limits	Diff(dB)	Comments				
(MHz)	Reading	Height	(degrees)	AVG (dBı	AVG (dBuV)		Factor	Reading	(dBuV)	+=FAIL					
	(dBuV)	(cm)				(dB)	(<i>dB</i>)	(dBuV)							
5180.00	65.83	100	135			2.98	34.62	103.43			Ch. 36				
5180.00				56.53	Α	2.98	34.62	94.13							
5240.00	66.67	100	180			3.00	34.73	104.40			Ch. 48				
5240.00				57.32	Α	3.00	34.73	95.05							
5260.00	66.33	100	135			3.00	34.77	104.10			Ch. 52				
5260.00				57.90	Α	3.00	34.77	95.67							
5320.00	65.00	100	135			3.02	34.88	102.90			Ch. 64				
5320.00				56.89	Α	3.02	34.88	94.79							

RADIATED EMISSIONS – Vertical Antenna Polarization

Freq.	Meter	Antenna	Azimuth	Quasi pk	or	Cable	Ant.	Corrected	Limits	Diff(dB)	Comments				
(MHz)	Reading	Height	(degrees)	AVG (dBi	uV)	Factor	Factor	Reading	(dBuV)	+=FAIL					
	(dBuV)	(<i>cm</i>)				(dB)	(<i>dB</i>)	(dBuV)							
5180.00	66.00	100	225			2.98	34.39	103.37			Ch. 36				
5180.00				57.69	A	2.98	34.39	95.06							
5240.00	66.50	100	225			3.00	34.48	103.98			Ch. 48				
5240.00				58.34	A	3.00	34.48	95.82							
5260.00	67.17	100	225			3.00	34.52	104.69			Ch. 52				
5260.00				59.11	A	3.00	34.52	96.63							
5320.00	66.00	100	225			3.02	34.61	103.63			Ch. 64				
5320.00				56.67	Α	3.02	34.61	94.30							

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

Band Edge Field Strength Measurements in **802.11a mode (5150-5350 MHz)** Channels 36 & 64 **Continuous TX** at MAIN Antenna port Hawke platform with **WNC Antennas** Aegis Labs, Inc. File #: INTEL-070911-07

	RADIATED EMISSIONS - Horizontal Antenna Polarization													
Freq.	Meter	Antenna	Azimuth	Quasi pk or	Cable	Ant.	Corrected	Limits	Diff(dB)	Comments				
(MHz)	Reading (dBuV)	Height (cm)	(degrees)	AVG (dBuV)	Factor (dB)	Factor (dB)	Reading (dBuV)	(dBuV)	+=FAIL					
5150.00							57.77	74.00	-16.23	Ch. 36				
5150.00				A			43.47	54.00	-10.53					
5350.00							59.07	74.00	-14.93	Ch. 64				
5350.00				A			47.63	54.00	-6.37					
5353.00							62.07	74.00	-11.93					
5353.00				A			46.29	54.00	-7.71					

	RADIATED EMISSIONS – Vertical Antenna Polarization													
Freq.	Meter	Antenna	Azimuth	Quasi pk or	Cable	Ant.	Corrected	Limits	Diff (dB)	Comments				
(MHz)	Reading	Height	(degrees)	AVG (dBuV)	Factor	Factor	Reading	(dBuV)	+=FAIL					
	(dBuV)	(cm)			(dB)	(dB)	(dBuV)							
5150.00							57.71	74.00	-16.29	Ch. 36				
5150.00				A			44.40	54.00	-9.60					
5350.00							59.80	74.00	-14.20	Ch. 64				
5350.00				A			47.14	54.00	-6.86					
5353.00							62.80	74.00	-11.20					
5353.00				A			45.80	54.00	-8.20					

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

 $BE = Fm - \Delta m$

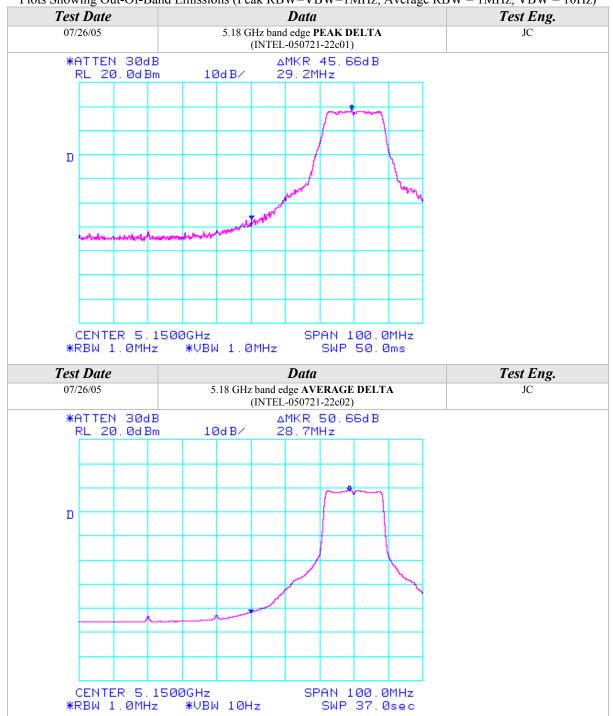
Where

BE = Band Edge Field Strength

Fm = Measured Fundamental (Peak or Average)

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

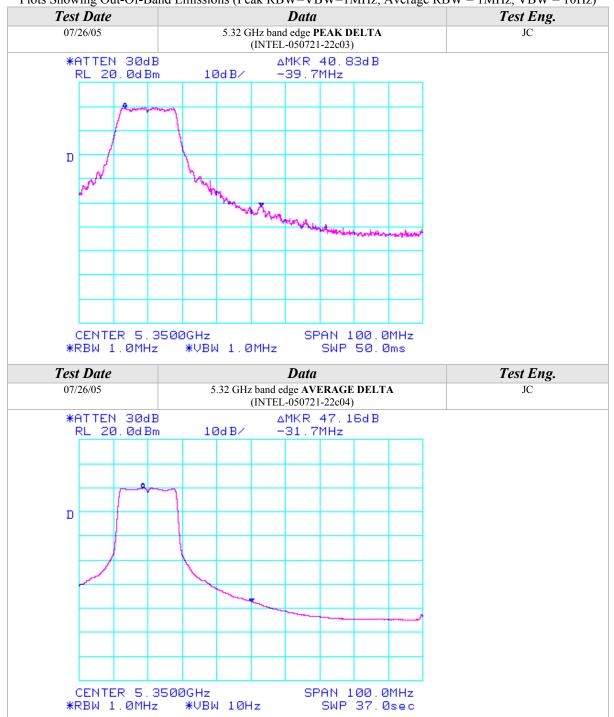




Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)

Page 13 of 21 (Appendix A) Report Number: INTEL-070913F Revision Number: N/A





Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)

Page 14 of 21 (Appendix A) Report Number: INTEL-070913F Revision Number: N/A

Spurious Emissions Measurements in **802.11a mode (5150-5350 MHz)** Channels 36, 52, & 64 **Continuous TX** at MAIN Antenna port Hawke platform with **WNC Antennas** Aegis Labs, Inc. File #: INTEL-070911-09

	RADIATED EMISSIONS - Horizontal Antenna Polarization														
Freq. (MHz)	Meter	Antenna	Azimuth	Quasi ph	k or	Preamp	Cable	Ant.	Corrected	Limits	Diff (dB)	Comments			
	Reading	Height	(degrees)	AVG (dB	uV)	Factor	Factor	Factor	Reading	(dBuV)	+=FAIL				
	(dBuV)	(<i>cm</i>)				(<i>dB</i>)	(dB)	(dB)	(dBuV)						
3453.33	51.83	100	180			46.60	2.41	32.29	39.93	68.00	-28.07	Ch. 36			
6906.66	53.00	100	135			45.19	3.47	35.91	47.19	68.00	-20.81				
10359.99	53.67	100	225			44.47	4.39	38.62	52.20	68.00	-15.80				
3506.66	52.17	100	135			46.60	2.43	32.41	40.42	68.00	-27.58	Ch. 52			
7013.32	52.67	100	135			45.04	3.51	36.03	47.17	68.00	-20.83				
10519.98	51.17	100	225			44.52	4.44	38.71	49.80	68.00	-18.20				
3546.66	51.83	100	135			46.59	2.45	32.50	40.19	68.00	-27.81	Ch. 64			
7093.32	51.17	100	135			45.01	3.53	36.24	45.93	68.00	-22.07				
10639.98	50.83	100	225			44.67	4.46	38.76	49.37	74.00	-24.63				
10639.98				38.82	Α	44.67	4.46	38.76	37.36	54.00	-16.64				

	RADIATED EMISSIONS - Vertical Antenna Polarization														
Freq. (MHz)	Meter	Antenna	Azimuth	Quasi ph	k or	Preamp	Cable	Ant.	Corrected	Limits	Diff (dB)	Comments			
	Reading	Height	(degrees)	AVG (dB	uV)	Factor	Factor	Factor	Reading	(dBuV)	+=FAIL				
	(dBuV)	(cm)				(<i>dB</i>)	(<i>dB</i>)	(dB)	(dBuV)						
3453.33	50.83	100	180			46.60	2.41	31.80	38.44	68.00	-29.56	Ch. 36			
6906.66	52.50	100	135			45.19	3.47	35.83	46.60	68.00	-21.40				
10359.99	53.00	100	225			44.47	4.39	38.59	51.51	68.00	-16.49				
3506.66	52.00	100	135			46.60	2.43	31.92	39.75	68.00	-28.25	Ch. 52			
7013.32	52.50	100	135			45.04	3.51	35.93	46.90	68.00	-21.10				
10519.98	50.33	100	225			44.52	4.44	38.70	48.96	68.00	-19.04				
3546.66	51.00	100	135			46.59	2.45	32.02	38.88	68.00	-29.12	Ch. 64			
7093.32	51.00	100	135			45.01	3.53	36.14	45.66	68.00	-22.34				
10639.98	50.83	100	225			44.67	4.46	38.73	49.34	74.00	-24.66				
10639.98				39.10	Α	44.67	4.46	38.73	37.61	54.00	-16.39				



Spurious Emissions Measurements in **802.11a mode (5150-5350 MHz)** Channels 36, 52, & 64 **Continuous TX** at MAIN Antenna port Hawke platform with **WNC Antennas** Aegis Labs, Inc. File #: INTEL-070911-10

	RADIATED EMISSIONS - Horizontal Antenna Polarization										
Freq. (MHz)	Meter Reading	Antenna Height	Azimuth (degrees)	Quasi pl AVG (dB		Cable Factor (dB)	Antenna/ Preamp	Corrected Reading	Limits (dBuV/m)	Diff(dB) +=FAIL	Comments
()	(dBuV)	(cm)	(4008) 0000)	11, 0 (42	,	(0.2)	Factor (dB)	(dBuV/m)	(4247711)		
20720.00	49.33	100	180			10.07	-3.36	56.04	74.00	-17.96	Ch. 36
20720.00				34.76	Α	10.07	-3.36	41.47	54.00	-12.53	
21040.00	54.17	100	225			10.20	-3.33	61.04	74.00	-12.96	Ch. 52
21040.00				37.69	Α	10.20	-3.33	44.56	54.00	-9.44	
21280.00	53.83	100	225			10.22	-3.38	60.67	74.00	-13.33	Ch. 64
21280.00				36.81	A	10.22	-3.38	43.65	54.00	-10.35	

	RADIATED EMISSIONS - Vertical Antenna Polarization										
Freq.	Meter	Antenna	Azimuth	Quasi pl	k or	Cable Factor	Antenna/	Corrected	Limits	Diff (dB)	Comments
(MHz)	Reading	Height	(degrees)	AVG (dB	uV)	(<i>dB</i>)	Preamp	Reading	(dBuV/m)	+=FAIL	
	(dBuV)	(cm)					Factor (dB)	(dBuV/m)			
20720.00	53.67	100	225			10.07	-3.29	60.46	74.00	-13.55	Ch. 36
20720.00				36.59	Α	10.07	-3.29	43.38	54.00	-10.63	
21040.00	55.33	100	270			10.20	-3.28	62.25	74.00	-11.75	Ch. 52
21040.00				39.03	Α	10.20	-3.28	45.95	54.00	-8.05	
21280.00	53.00	100	270			10.22	-3.24	59.99	74.00	-14.01	Ch. 64
21280.00				37.85	A	10.22	-3.24	44.84	54.00	-9.16	



Spurious Emissions Measurements in **802.11a mode (5150-5350 MHz)** Channels 36, 52, & 64 **Continuous RX** at MAIN Antenna port Hawke platform with **WNC Antennas** Aegis Labs, Inc. File #: INTEL-070911-09

	RADIATED EMISSIONS - Horizontal Antenna Polarization											
Freq. (MHz)	Meter	Antenna	Azimuth	Quasi pk	t or	Preamp	Cable	Ant.	Corrected	Limits	Diff(dB)	Comments
	Reading	Height	(degrees)	AVG (dB	uV)	Factor	Factor	Factor	Reading	(dBuV)	+=FAIL	
	(dBuV)	(cm)				(dB)	(dB)	(dB)	(dBuV)			
3453.33	51.17	100	135			46.60	2.41	32.29	39.27	74.00	-34.73	Ch. 36
3453.33				39.25	Α	46.60	2.41	32.29	27.35	54.00	-26.65	
3506.66	51.33	200	135			46.60	2.43	32.41	39.58	74.00	-34.42	Ch. 52
3506.66				39.64	Α	46.60	2.43	32.41	27.89	54.00	-26.11	
3546.72	52.17	175	135			46.59	2.45	32.50	40.53	74.00	-33.47	Ch. 64
3546.72				40.38	Α	46.59	2.45	32.50	28.74	54.00	-25.26	

	RADIATED EMISSIONS - Vertical Antenna Polarization											
Freq. (MHz)	Meter	Antenna	Azimuth	Quasi ph	k or	Preamp	Cable	Ant.	Corrected	Limits	Diff(dB)	Comments
	Reading	Height	(degrees)	AVG (dB	uV)	Factor	Factor	Factor	Reading	(dBuV)	+=FAIL	
	(dBuV)	(cm)				(<i>dB</i>)	(<i>dB</i>)	(dB)	(dBuV)			
3453.33	50.83	100	180			46.60	2.41	31.80	38.44	74.00	-35.56	Ch. 36
3453.33				36.10	Α	46.60	2.41	31.80	23.71	54.00	-30.29	
3506.68	51.67	100	180			46.60	2.43	31.92	39.42	74.00	-34.58	Ch. 52
3506.68				40.25	Α	46.60	2.43	31.92	28.00	54.00	-26.00	
3546.66	52.50	100	180			46.59	2.45	32.02	40.38	74.00	-33.62	Ch. 64
3546.66				40.56	A	46.59	2.45	32.02	28.44	54.00	-25.56	



PEAK TRANSMIT POWER

CLIENT:	Dell Computer Corporation	DATE:	09/15/07
EUT:	Intel PRO/Wireless 3945ABG Network Connection	PROJECT NUMBER:	INTEL-070911
MODEL NUMBER:	WM3945ABG	TEST ENGINEER:	JC
SERIAL NUMBER:	00F712365CVD26436002	SITE #:	2
	Tested in stalled in the head	TEMPERATURE:	22 deg. C
CONFIGURATION:	Tested installed in the host computer's mini PCI slot.	HUMIDITY:	53% RH
	computer 5 mini i Ci slot.	TIME:	9:00 AM

Description:	For the band 5.15-5.25 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 50 mW or 4 dBm + 10logB, where B is the 26-dB emission bandwidth in MHz.
	For the band 5.25-5.35 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10logB, where B is the 26-dB emission 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.

Peak Transmit Power Limits								
Frequency (MHz)	Output Power (mW)	Output Power						
		(Note 1)						
5150-5250	50 (17 dBm)	4 dBm + 10logB = 17.73 dBm @ 5180 MHz						
5250-5350	250 (24 dBm)	$11 \text{ dBm} + 10 \log \text{B} = 24.68 \text{ dBm} @ 5260 \text{ MHz}$						
		$11 \text{ dBm} + 10 \log \text{B} = 24.83 \text{ dBm} \ alpha 5320 \text{ MHz}$						

Note 1: Calculated using the 26-dB emissions bandwidth measurements.



Peak Transmit Power (Continued)

Mode	Channel	Frequency (MHz)	Rate (Mbps)	Average Power (dBm)	Average Power (mW)	Peak Power (dBm)	Peak Power (mW)
802.11a	36	5180	6	16.15	41.21	16.60	45.71
802.11a	48	5240	6	16.33	42.95	16.80	47.86
802.11a	52	5260	6	16.83	48.19	18.10	64.57
802.11a	64	5320	6	17.25	53.09	18.30	67.61

NOTE: The output power measurement is conducted.

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CONDCUTED BAND EDGE EMISSIONS TEST RESULTS

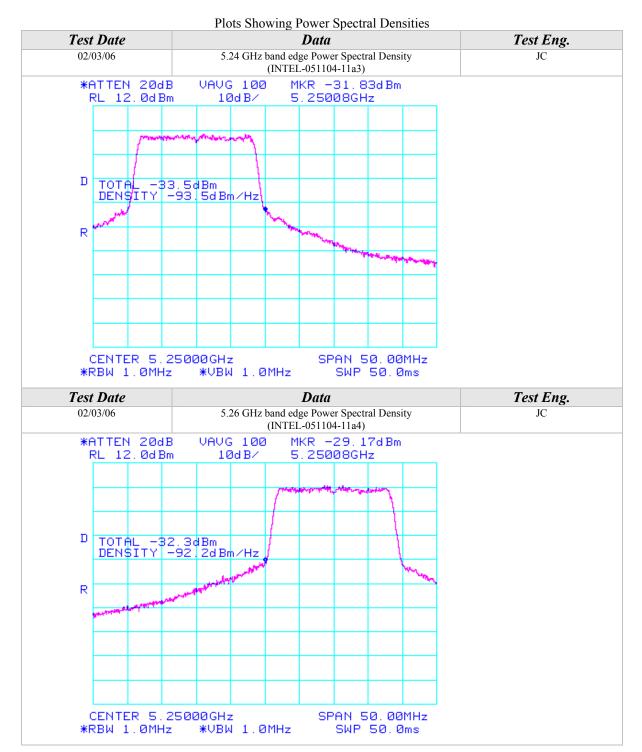
CLIENT:	Dell Computer Corporation	DATE:	09/15/07
EUT:	Intel PRO/Wireless 3945ABG Network Connection	PROJECT NUMBER:	INTEL-070911
MODEL NUMBER:	WM3945ABG	TEST ENGINEER:	JC
SERIAL NUMBER:	00F712365CVD26436002	SITE #:	2
	Tested in stalled in the head	TEMPERATURE:	22 deg. C
CONFIGURATION:	Tested installed in the host computer's mini PCI slot.	HUMIDITY:	53% RH
	computer 5 min r Cr slot.	TIME:	9:00 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 < -27 dBm/Hz (68.3 dBuV/m)					

Freq. (MHz)	Power Spec Den. Reading (dBm/Hz)	Antenna Gain (dBi)	Corrected Reading (dBm/Hz)	Limits (dBm/Hz)	Diff (dB) +=FAIL	Comments			
With Acon A	With Acon Antennas Gain at 5 GHz								
5250.00	-33.50	-0.20	-33.70	-27.00	-6.70	Tx @ 5240 MHz			
5250.00	-32.30	-0.20	-32.50	-27.00	-5.50	Tx @ 5260 MHz			
With WNC A	Antennas Gain at 5	GHz							
5250.00	-33.50	1.92	-31.58	-27.00	-4.58	Tx @ 5240 MHz			
5250.00	-32.30	1.92	-30.38	-27.00	-3.38	Tx @ 5260 MHz			

Conducted Band Edge Emissions Test Results (Continued)





APPENDIX B

MODIFICATIONS AND RECOMMENDATIONS

1.0	NONE

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