



## *EMC Test Report*

### *Industry Canada RSS-Gen Issue 3 / RSS 210 Issue 8 FCC Part 15 Subpart C*

*Intel® Centrino® Advanced-N 6205 with WNC  
81XCAA15.G03 Dipole Antenna*

IC CERTIFICATION #: 1000M-62205ANHU  
FCC ID: PD962205ANHU

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Columbia, SC 29210

TEST SITE(S): Elliott Laboratories  
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IC SITE REGISTRATION #: 2845B-3; 2845B-4, 2845B-5

REPORT DATE: June 24, 2011

FINAL TEST DATES: June 13, 14, 15, 2011

#### AUTHORIZED SIGNATORY:

  
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Testing Cert #2016.01

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**REVISION HISTORY**

Rev#	Date	Comments	Modified By
1	06-24-2011	First release	

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## SCOPE

An electromagnetic emissions test has been performed on the Intel Corporation Intel® Centrino® Advanced-N 6205 with WNC 81XCAA15.G03 Dipole Antenna, pursuant to the following rules:

Industry Canada RSS-Gen Issue 3

RSS 210 Issue 8 “Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment”

FCC Part 15 Subpart C

Conducted and radiated emissions data has been collected, reduced, and analyzed within this report in accordance with measurement guidelines set forth in the following reference standards and as outlined in Elliott Laboratories test procedures:

ANSI C63.4:2003

FCC DTS Measurement Procedure KDB558074, March 2005

The intentional radiator above has been tested in a simulated typical installation to demonstrate compliance with the relevant Industry Canada performance and procedural standards.

Every practical effort was made to perform an impartial test using appropriate test equipment of known calibration. All pertinent factors have been applied to reach the determination of compliance.

## OBJECTIVE

The primary objective of the manufacturer is compliance with the regulations outlined in the previous section.

Prior to marketing in the USA, all unlicensed transmitters and transceivers require certification. Receive-only devices operating between 30 MHz and 960 MHz are subject to either certification or a manufacturer's declaration of conformity, with all other receive-only devices exempt from the technical requirements.

Prior to marketing in Canada, Class I transmitters, receivers and transceivers require certification. Class II devices are required to meet the appropriate technical requirements but are exempt from certification requirements.

Certification is a procedure where the manufacturer submits test data and technical information to a certification body and receives a certificate or grant of equipment authorization upon successful completion of the certification body's review of the submitted documents. Once the equipment authorization has been obtained, the label indicating compliance must be attached to all identical units, which are subsequently manufactured.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product which may result in increased emissions should be checked to ensure compliance has been maintained (i.e., printed circuit board layout changes, different line filter, different power supply, harnessing or I/O cable changes, etc.).

### ***STATEMENT OF COMPLIANCE***

The tested sample of Intel Corporation Intel® Centrino® Advanced-N 6205 with WNC 81XCAA15.G03 Dipole Antenna complied with the requirements of the following regulations:

Industry Canada RSS-Gen Issue 3  
RSS 210 Issue 8 “Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment”  
FCC Part 15 Subpart C

Maintenance of compliance is the responsibility of the manufacturer. Any modifications to the product should be assessed to determine their potential impact on the compliance status of the device with respect to the standards detailed in this test report.

The test results recorded herein are based on a single type test of Intel Corporation Intel® Centrino® Advanced-N 6205 with WNC 81XCAA15.G03 Dipole Antenna and therefore apply only to the tested sample. The sample was selected and prepared by Steve Hackett of Intel Corporation.

### ***DEVIATIONS FROM THE STANDARDS***

No deviations were made from the published requirements listed in the scope of this report.

**TEST RESULTS SUMMARY****DIGITAL TRANSMISSION SYSTEMS (2400 – 2483.5MHz)**

FCC Rule Part	RSS Rule Part	Description	Measured Value / Comments	Limit / Requirement	Result
15.247(a)	RSS 210 A8.2	Digital Modulation	Not evaluated. The proposed changes (addition of a new antenna type of lower gain than the originally certified antenna) do not affect the values previously reported.		
15.247 (a) (2)	RSS 210 A8.2 (1)	6dB Bandwidth			
15.247 (b) (3)	RSS 210 A8.2 (4)	Output Power (multipoint systems)			
15.247(d)	RSS 210 A8.2 (2)	Power Spectral Density			
15.247(c)	RSS 210 A8.5	Antenna Port Spurious Emissions 30MHz – 25 GHz			
15.247(c) / 15.209	RSS 210 A8.5	Radiated Spurious Emissions 30MHz – 25 GHz	53.4dB $\mu$ V/m @ 2390.0MHz	15.207 in restricted bands, all others <-30dB $c$ <sup>Note 2</sup>	Complies (-0.6dB)
Note 1: The previously reported worst case value for radiated spurious emissions was 53.3dB $\mu$ V/m @ 2389.9MHz (0.7dB below the limit).					
Note 2: Limit of -30dB $c$ used because the power was measured using the UNII test procedure (maximum power averaged over a transmission burst).					

**DIGITAL TRANSMISSION SYSTEMS (5725 –5850 MHz)**

FCC Rule Part	RSS Rule Part	Description	Measured Value / Comments	Limit / Requirement	Result
15.247(a)	RSS 210 A8.2	Digital Modulation	Not evaluated. The proposed changes (addition of a new antenna type of lower gain than the originally certified antenna) do not affect the values previously reported.		
15.247 (a) (2)	RSS 210 A8.2 (1)	6dB Bandwidth			
15.247 (b)	RSS 210 A8.2 (4)	Output Power (multipoint systems)			
15.247(d)	RSS 210 A8.2 (2)	Power Spectral Density			
15.247(c)	RSS 210 A8.5	Antenna Port Spurious Emissions – 30MHz – 40 GHz			
15.247(c) / 15.209	RSS 210 A8.5 Table 2, 3	Radiated Spurious Emissions 30MHz – 40 GHz	42.9dB $\mu$ V/m @ 11649.7MHz	15.207 in restricted bands, all others <-30dB $c$ <sup>Note 2</sup>	Complies
Note 1: The previously reported worst case value for radiated spurious emissions was 47.1dB $\mu$ V/m @ 11649.9MHz (6.9dB below the limit).					
Note 2: Limit of -30dB $c$ used because the power was measured using the UNII test procedure (maximum power averaged over a transmission burst).					

**GENERAL REQUIREMENTS APPLICABLE TO ALL BANDS**

FCC Rule Part	RSS Rule part	Description	Measured Value / Comments	Limit / Requirement	Result (margin)
15.203	-	RF Connector			
15.207	RSS GEN Table 2	AC Conducted Emissions			
15.109	RSS GEN 7.2.3 Table 1	Receiver spurious emissions	47.2dB $\mu$ V/m @ 3000.3MHz	Refer to page 18	Complies (- 6.8dB)
15.247 (b) (5) 15.407 (f)	RSS 102	RF Exposure Requirements	Refer to MPE calculations, RSS 102 declaration and User Manual statements.	Refer to OET 65, FCC Part 1 and RSS 102	Complies
-	RSP 100 RSS GEN 4.4.1	99% Bandwidth			
Note 1: The previously reported worst case value for radiated spurious emissions was 34.9dB $\mu$ V/m @ 199.83MHz (8.6dB below the limit).					

**MEASUREMENT UNCERTAINTIES**

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level and were calculated in accordance with UKAS document LAB 34.

Measurement Type	Measurement Unit	Frequency Range	Expanded Uncertainty
RF power, conducted (power meter)	dBm	25 to 7000 MHz	± 0.52 dB
RF power, conducted (Spectrum analyzer)	dBm	25 to 7000 MHz	± 0.7 dB
Conducted emission of transmitter	dBm	25 to 26500 MHz	± 0.7 dB
Conducted emission of receiver	dBm	25 to 26500 MHz	± 0.7 dB
Radiated emission (substitution method)	dBm	25 to 26500 MHz	± 2.5 dB
Radiated emission (field strength)	dB $\mu$ V/m	25 to 1000 MHz	± 3.6 dB
		1000 to 40000 MHz	± 6.0 dB
Conducted Emissions (AC Power)	dB $\mu$ V	0.15 to 30 MHz	± 2.4 dB

**EQUIPMENT UNDER TEST (EUT) DETAILS****GENERAL**

The Intel Corporation Intel® Centrino® Advanced-N 6205 with WNC 81XCAA15.G03 Dipole Antenna is a PCIe Half Mini Card form factor IEEE 802.11a/b/g/n wireless network adapter that operates in both the 2.4 GHz and 5.0 GHz spectra. The card supports 2x2 MIMO for 802.11n modes in both 20MHz and 40MHz channels. In legacy modes 1x2 operation is supported.

For radio testing purposes the card was installed in a test fixture that exposed all sides of the card.

The card has been certified with limited modular approval. The limited modular version is intended to allow the OEM to permit user installation when the host system is provided with a bios locking feature that prevents unauthorized installation (FCC ID: PD962205ANHU; IC:1000M-62205ANHU) The U.S./FCC approved version is approved under Intel model 62205ANHMW and for Canada/IC as model 62205ANHU.

The scope of testing is to evaluate a new antenna type for use with the module (dipole type). The gain of this new antenna compared to the originally approved PIFA-type antennas are detailed below.

The sample was received on June 13, 2011 and tested on June 13, 14, 15, 2011. The EUT consisted of the following component(s):

Company	Model	Description	Serial Number	FCC ID IC UPN
Intel Corporation	C/M 62205ANHU	PCIe Half Mini Card 802.11a/b/g/n wireless network adapter	MAC address 001500634F48	PD962205ANHU 1000M- 62205ANHU

**ANTENNA SYSTEM**

The antenna originally approved with the system was a two-antenna PIFA antenna system – Shanghai Universe Communication Electron Co., Ltd. Testing under the scope of this report is to evaluate a new dipole antenna, part number WNC P/N 81XCAA15.G03. In all bands the new antenna has lower gain than the PIFA antenna.

Band	Antenna Gain	
	Original PIFA	New Dipole
200-2483.5 MHz	3.2 dBi	Tx/Rx1: -0.45 dBi Tx/Rx2: 1.26 dBi
5150-5350 MHz	3.7 dBi	Tx/Rx1: -0.36 dBi Tx/Rx2: 1.58 dBi
5470-5725 MHz	4.8 dBi	Tx/Rx1: -0.07 dBi Tx/Rx2: 1.01 dBi
5725-5850 MHz	5 dBi	Tx/Rx1: 0.83 dBi Tx/Rx2: 1.09 dBi

**ENCLOSURE**

The EUT does not have an enclosure as it is designed to be installed within the enclosure of a host computer or system.

**MODIFICATIONS**

No modifications were made to the EUT during the time the product was at Elliott.

**SUPPORT EQUIPMENT**

The following equipment was used as support equipment for testing:

Company	Model	Description	Serial Number	FCC ID
Intel	Shiloh	MINI PCI test fixture	2009-1543	-
Dell	Prototype	Laptop PC	-	-
Ailent	-	DC bench supply	-	-

**EUT INTERFACE PORTS**

The I/O cabling configuration during testing was as follows:

Port	Connected To	Description	Cable(s) Shielded or Unshielded	Length(m)
test fixture DC In	DC Supply out	2-wire	Unshielded	2
test fixture PCIe	Laptop PCIe	Ribbon	Unshielded	1

**EUT OPERATION**

The EUT was installed into a test fixture that exposed all sides of the card. The test fixture interfaced to a laptop computer and dc power supply. The laptop computer was used to configure the EUT to continuously transmitter or continuously receive on the channel specified in the test data.

For transmit mode measurements the system was configured to operate in one or more of the available operating modes – 802.11b, 802.11g, 802.11a, 802.11n (20 MHz channel bandwidth) and 802.11n (40MHz channel bandwidth). The output power for all measurements was set to be within 0.5dB of the output power measured during the original testing.

The data rates used for all tests were the lowest data rates for each mode – 1Mb/s for 802.11b, 6Mb/s for 802.11a and 802.11g, 6.5MB/s for 802.11n (20MHz), and 13 Mb/s for 802.11n (40MHz). The device operates at its maximum output power at the lowest data rate (this was confirmed through separate measurements during the original device certification tests).

As the scope of testing was to evaluate a new antenna, and because output power ratings for this new antenna were to be the same as those originally approved with the device, testing was limited to an evaluation of the radiated spurious emissions. The actual modes evaluated were based on the worst case mode or modes observed during the original tests.

Compliance with radiated spurious emissions requirements in the restricted bands adjacent to the 2400-2483.5 MHz allocated band was evaluated in the worst case 20-MHz mode (which was 802.11n 20MHz for all bands) and also in the 802.11n 40-MHz mode.

Compliance with radiated spurious emissions requirements away from the allocated band edges were performed in the worst case OFDM mode and, for operation in the 2.4GHz band, the DSSS (802.11b) mode. The worst-case OFDM modes were 802.11g in the 2.4GHz band and 802.11n 20MHz in the 5.8GHz DTS band. Legacy SISO modes were evaluated on each chain on the center channel and then on the worst-case chain on the top and bottom channels. MIMO modes were evaluated with both chains active and operating at the maximum power per chain.

The PC was using the Intel test utility DRTU Version 1.1.3 and the device driver was version 13.0.0.238.

**TEST SITE****GENERAL INFORMATION**

Final test measurements were taken at the test sites listed below. Pursuant to section 2.948 of the FCC's Rules and section 3.3 of RSP-100, construction, calibration, and equipment data has been filed with the Commission and with industry Canada.

Site	Registration Numbers		Location
	FCC	Canada	
Chamber 3	769238	2845B-3	41039 Boyce Road
Chamber 4	211948	2845B-4	Fremont, CA 94538-2435
Chamber 5	211948	2845B-5	

ANSI C63.4:2003 recommends that ambient noise at the test site be at least 6 dB below the allowable limits. Ambient levels are below this requirement. The test site(s) contain separate areas for radiated and conducted emissions testing. Considerable engineering effort has been expended to ensure that the facilities conform to all pertinent requirements of ANSI C63.4:2003.

**RADIATED EMISSIONS CONSIDERATIONS**

The FCC has determined that radiation measurements made in a shielded enclosure are not suitable for determining levels of radiated emissions. Radiated measurements are performed in an open field environment or in a semi-anechoic chamber. The test sites are maintained free of conductive objects within the CISPR defined elliptical area incorporated in ANSI C63.4:2003 guidelines and meet the Normalized Site Attenuation (NSA) requirements of ANSI C63.4:2003.

**MEASUREMENT INSTRUMENTATION****RECEIVER SYSTEM**

An EMI receiver as specified in CISPR 16-1-1 is used for emissions measurements. The receivers used can measure over the frequency range of 9 kHz up to 2000 MHz. These receivers allow both ease of measurement and high accuracy to be achieved. The receivers have Peak, Average, and CISPR (Quasi-peak) detectors built into their design so no external adapters are necessary. The receiver automatically sets the required bandwidth for the CISPR detector used during measurements. If the repetition frequency of the signal being measured is below 20Hz, peak measurements are made in lieu of Quasi-Peak measurements.

For measurements above the frequency range of the receivers, a spectrum analyzer is utilized because it provides visibility of the entire spectrum along with the precision and versatility required to support engineering analysis. Average measurements above 1000MHz are performed on the spectrum analyzer using the linear-average method with a resolution bandwidth of 1 MHz and a video bandwidth of 10 Hz, unless the signal is pulsed in which case the average (or video) bandwidth of the measuring instrument is reduced to onset of pulse desensitization and then increased.

**INSTRUMENT CONTROL COMPUTER**

The receivers utilize either a Rohde & Schwarz EZM Spectrum Monitor/Controller or contain an internal Spectrum Monitor/Controller to view and convert the receiver measurements to the field strength at an antenna or voltage developed at the LISN measurement port, which is then compared directly with the appropriate specification limit. This provides faster, more accurate readings by performing the conversions described under Sample Calculations within the Test Procedures section of this report. Results are printed in a graphic and/or tabular format, as appropriate. A personal computer is used to record all measurements made with the receivers.

The Spectrum Monitor provides a visual display of the signal being measured. In addition, the controller or a personal computer run automated data collection programs which control the receivers. This provides added accuracy since all site correction factors, such as cable loss and antenna factors are added automatically.

**FILTERS/ATTENUATORS**

External filters and precision attenuators are often connected between the receiving antenna or LISN and the receiver. This eliminates saturation effects and non-linear operation due to high amplitude transient events.

**ANTENNAS**

A loop antenna is used below 30 MHz. For the measurement range 30 MHz to 1000 MHz either a combination of a biconical antenna and a log periodic or a bi-log antenna is used. Above 1000 MHz, horn antennas are used. The antenna calibration factors to convert the received voltage to an electric field strength are included with appropriate cable loss and amplifier gain factors to determine an overall site factor, which is then programmed into the test receivers or incorporated into the test software.

**ANTENNA MAST AND EQUIPMENT TURNTABLE**

The antennas used to measure the radiated electric field strength are mounted on a non-conductive antenna mast equipped with a motor-drive to vary the antenna height. Measurements below 30 MHz are made with the loop antenna at a fixed height of 1m above the ground plane.

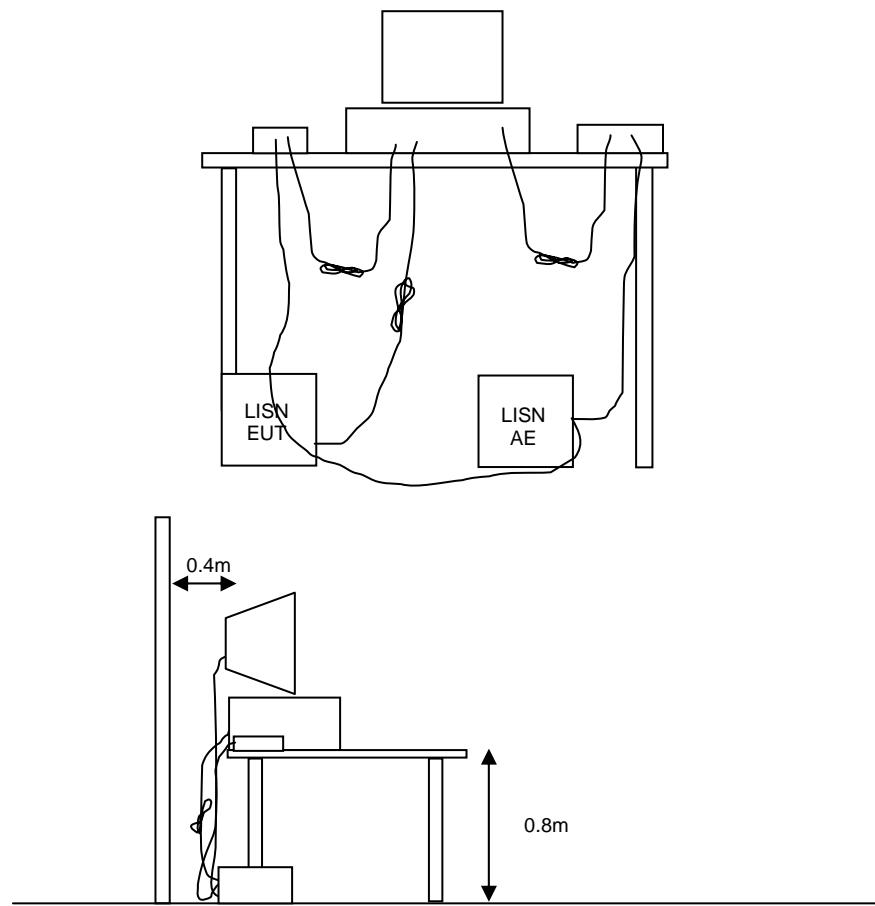
ANSI C63.4:2003 specifies that the test height above ground for table mounted devices shall be 80 centimeters. Floor mounted equipment shall be placed on the ground plane if the device is normally used on a conductive floor or separated from the ground plane by insulating material from 3 to 12 mm if the device is normally used on a non-conductive floor. During radiated measurements, the EUT is positioned on a motorized turntable in conformance with this requirement.

**INSTRUMENT CALIBRATION**

All test equipment is regularly checked to ensure that performance is maintained in accordance with the manufacturer's specifications. All antennas are calibrated at regular intervals with respect to tuned half-wave dipoles. An exhibit of this report contains the list of test equipment used and calibration information.

**TEST PROCEDURES****EUT AND CABLE PLACEMENT**

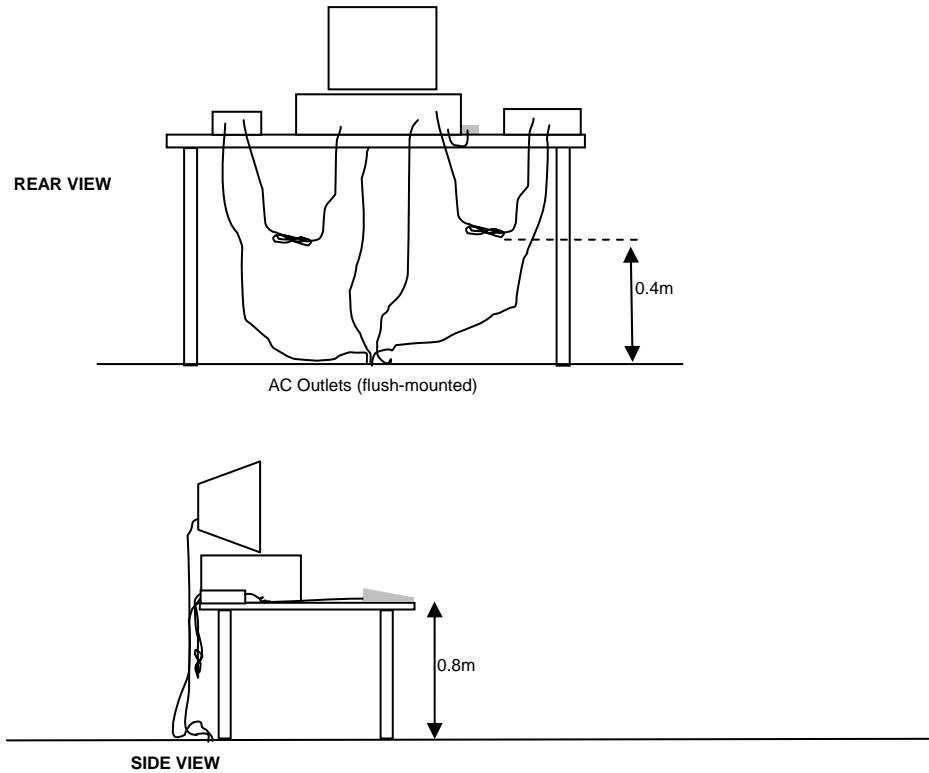
The regulations require that interconnecting cables be connected to the available ports of the unit and that the placement of the unit and the attached cables simulate the worst case orientation that can be expected from a typical installation, so far as practicable. To this end, the position of the unit and associated cabling is varied within the guidelines of ANSI C63.4:2003, and the worst-case orientation is used for final measurements.

**RADIATED EMISSIONS**

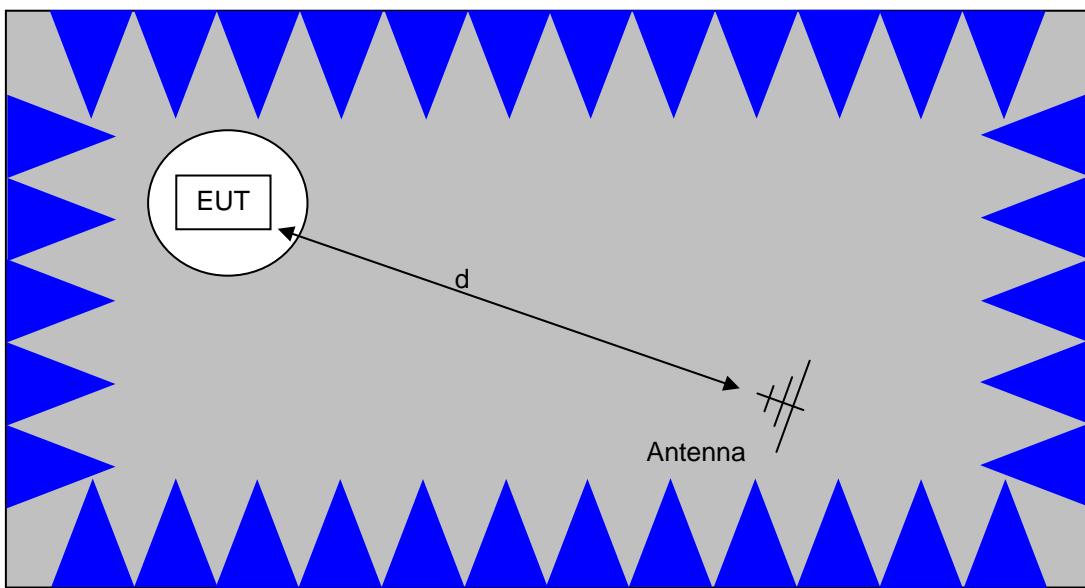
A preliminary scan of the radiated emissions is performed in which all significant EUT frequencies are identified with the system in a nominal configuration. At least two scans are performed, one scan for each antenna polarization (horizontal and vertical; loop parallel and perpendicular to the EUT). During the preliminary scans, the EUT is rotated through 360°, the antenna height is varied (for measurements above 30 MHz) and cable positions are varied to determine the highest emission relative to the limit. Preliminary scans may be performed in a fully anechoic chamber for the purposes of identifying the frequencies of the highest emissions from the EUT.

Final maximization is a phase in which the highest amplitude emissions identified in the spectral search are viewed while the EUT azimuth angle is varied from 0 to 360 degrees relative to the receiving antenna. The azimuth, which results in the highest emission is then maintained while varying the antenna height from one to four meters (for measurements above 30 MHz, measurements below 30 MHz are made with the loop antenna at a fixed height of 1m). The result is the identification of the highest amplitude for each of the highest peaks. Each recorded level is corrected in the receiver using appropriate factors for cables, connectors, antennas, and preamplifier gain.

When testing above 18 GHz, the receive antenna is located at 1 meter from the EUT and the antenna height is restricted to a maximum of 2.5 meters.

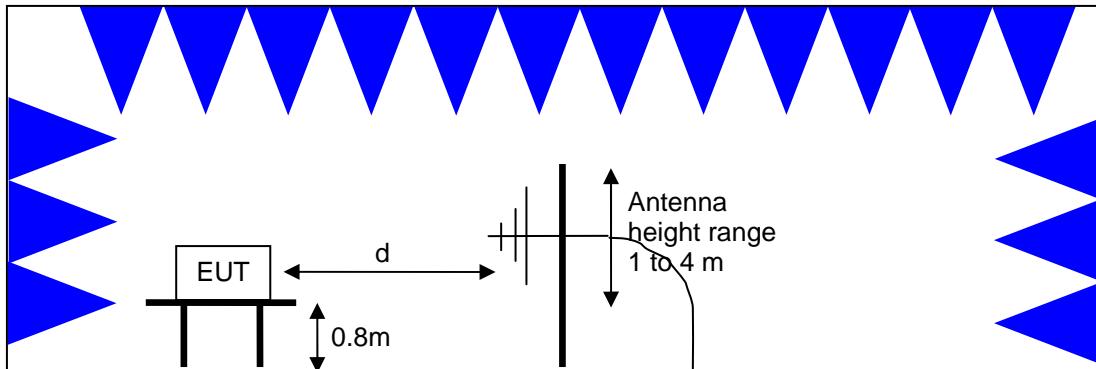


Typical Test Configuration for Radiated Field Strength Measurements



The anechoic materials on the walls and ceiling ensure compliance with the normalized site attenuation requirements of CISPR 16 / CISPR 22 / ANSI C63.4 for an alternate test site at the measurement distances used.

Floor-standing equipment is placed on the floor with insulating supports between the unit and the ground plane.



Test Configuration for Radiated Field Strength Measurements  
Semi-Anechoic Chamber, Plan and Side Views

**SPECIFICATION LIMITS AND SAMPLE CALCULATIONS**

The limits for conducted emissions are given in units of microvolts, and the limits for radiated emissions are given in units of microvolts per meter at a specified test distance. Data is measured in the logarithmic form of decibels relative to one microvolt, or dB microvolts (dBuV). For radiated emissions, the measured data is converted to the field strength at the antenna in dB microvolts per meter (dBuV/m). The results are then converted to the linear forms of uV and uV/m for comparison to published specifications.

For reference, converting the specification limits from linear to decibel form is accomplished by taking the base ten logarithm, then multiplying by 20. These limits in both linear and logarithmic form are as follows.

**GENERAL TRANSMITTER RADIATED EMISSIONS SPECIFICATION LIMITS**

The table below shows the limits for the spurious emissions from transmitters that fall in restricted bands<sup>1</sup> (with the exception of transmitters operating under FCC Part 15 Subpart D and RSS 210 Annex 9), the limits for all emissions from a low power device operating under the general rules of RSS 310 (tables 3 and 4), RSS 210 (table 2) and FCC Part 15 Subpart C section 15.209.

Frequency Range (MHz)	Limit (uV/m)	Limit (dBuV/m @ 3m)
0.009-0.490	$2400/F_{\text{KHz}} @ 300\text{m}$	$67.6-20*\log_{10}(F_{\text{KHz}}) @ 300\text{m}$
0.490-1.705	$24000/F_{\text{KHz}} @ 30\text{m}$	$87.6-20*\log_{10}(F_{\text{KHz}}) @ 30\text{m}$
1.705 to 30	30 @ 30m	29.5 @ 30m
30 to 88	100 @ 3m	40 @ 3m
88 to 216	150 @ 3m	43.5 @ 3m
216 to 960	200 @ 3m	46.0 @ 3m
Above 960	500 @ 3m	54.0 @ 3m

<sup>1</sup> The restricted bands are detailed in FCC 15.203, RSS 210 Table 1 and RSS 310 Table 2

**RECEIVER RADIATED SPURIOUS EMISSIONS SPECIFICATION LIMITS**

The table below shows the limits for the spurious emissions from receivers as detailed in FCC Part 15.109, RSS 210 Table 2, RSS GEN Table 1 and RSS 310 Table 3. Note that receivers operating outside of the frequency range 30 MHz – 960 MHz are exempt from the requirements of 15.109.

Frequency Range (MHz)	Limit (uV/m @ 3m)	Limit (dBuV/m @ 3m)
30 to 88	100	40
88 to 216	150	43.5
216 to 960	200	46.0
Above 960	500	54.0

**TRANSMIT MODE SPURIOUS RADIATED EMISSIONS LIMITS – FHSS and DTS SYSTEMS**

The limits for unwanted (spurious) emissions from the transmitter falling in the restricted bands are those specified in the general limits sections of FCC Part 15 and RSS 210. All other unwanted (spurious) emissions shall be at least 20dB below the level of the highest in-band signal level (30dB if the power is measured using the sample detector/power averaging method).

**SAMPLE CALCULATIONS - RADIATED EMISSIONS**

Receiver readings are compared directly to the specification limit (decibel form). The receiver internally corrects for cable loss, preamplifier gain, and antenna factor. The calculations are in the reverse direction of the actual signal flow, thus cable loss is added and the amplifier gain is subtracted. The Antenna Factor converts the voltage at the antenna coaxial connector to the field strength at the antenna elements.

A distance factor, when used for electric field measurements above 30MHz, is calculated by using the following formula:

$$F_d = 20 \cdot \text{LOG10} (D_m/D_s)$$

where:

$F_d$  = Distance Factor in dB

$D_m$  = Measurement Distance in meters

$D_s$  = Specification Distance in meters

For electric field measurements below 30MHz the extrapolation factor is either determined by making measurements at multiple distances or a theoretical value is calculated using the formula:

$$F_d = 40 \cdot \text{LOG10} (D_m/D_s)$$

Measurement Distance is the distance at which the measurements were taken and Specification Distance is the distance at which the specification limits are based. The antenna factor converts the voltage at the antenna coaxial connector to the field strength at the antenna elements.

The margin of a given emission peak relative to the limit is calculated as follows:

$$R_C = R_r + F_d$$

and

$$M = R_C - L_S$$

where:

$R_r$  = Receiver Reading in dBuV/m

$F_d$  = Distance Factor in dB

$R_C$  = Corrected Reading in dBuV/m

$L_S$  = Specification Limit in dBuV/m

$M$  = Margin in dB Relative to Spec

**Appendix A Test Equipment Calibration Data****Radiated Emissions, 30 - 40,000 MHz, 13 & 14-Jun-11**

<u>Manufacturer</u>	<u>Description</u>	<u>Model</u>	<u>Asset #</u>	<u>Cal Due</u>
Hewlett Packard	Microwave Preamplifier, 1-26.5GHz	8449B	785	5/18/2012
EMCO	Antenna, Horn, 1-18 GHz	3115	786	12/11/2011
Hewlett Packard	SpecAn 9 kHz - 40 GHz, FT (SA40) Blue	8564E (84125C)	1393	6/14/2011
Rohde & Schwarz	Power Meter, Single Channel	NRVS	1422	12/1/2011
Hewlett Packard	Head (Inc W1-W4, 1742, 1743) Blue	84125C	1620	5/9/2012
Micro-Tronics	Band Reject Filter, 2400-2500 MHz	BRM50702-02	1683	8/10/2011
Rohde & Schwarz	Attenuator, 20 dB, 10W, DC-18 GHz	20dB, 10W, Type N	1795	5/25/2012
Rohde & Schwarz	Power Sensor 100 uW - 10 Watts	NRV-Z53	1796	5/25/2012
A.H. Systems	Blue System Horn, 18-40GHz	SAS-574, p/n: 2581	2159	3/23/2012

**DTS Spurs , 15-Jun-11**

<u>Manufacturer</u>	<u>Description</u>	<u>Model</u>	<u>Asset #</u>	<u>Cal Due</u>
Hewlett Packard	Microwave Preamplifier, 1-26.5GHz	8449B	263	12/8/2011
EMCO	Antenna, Horn, 1-18 GHz	3115	487	7/6/2012
Hewlett Packard	SpecAn 30 Hz -40 GHz, SV (SA40) Red	8564E (84125C)	1148	7/12/2011

*Appendix B Test Data*

T83587 32 Pages



## EMC Test Data

Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
Contact:	Steven Hackett	Account Manager:	Christine Krebil
Emissions Standard(s):	FCC 15.247 / FCC 15 E / RSS 210	Class:	B
Immunity Standard(s):	-	Environment:	Radio

## EMC Test Data

For The

## Intel Corporation

Model

**62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole**

Date of Last Test: 6/20/2011



## EMC Test Data

Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

### RSS 210 and FCC 15.247 (DTS) Radiated Spurious Emissions

#### Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

#### Summary of Results

MAC Address: 001500634F48 DRTU Tool Version 1.1.3 Driver version 13.0.0.238

Band edge measurements - the modes tested (n20 and n40) were the worst case 20- and 40-MHz modes based on measurements made in the original filing.

Run #	Mode	Channel	Target Power	Measured Power	Test Performed	Limit	Result / Margin
Run # 1	802.11n40 Chain A	#3 2422MHz	9.1dBm	9.2	Restricted Band Edge at 2390 MHz	15.209	53.0dB $\mu$ V/m @ 2389.9MHz (-1.0dB)
		#9 2452MHz	9.6dBm	9.6	Restricted Band Edge at 2483.5 MHz	15.209	51.9dB $\mu$ V/m @ 2483.5MHz (-2.1dB)
	802.11n40 Chain B	#3 2422MHz	9.5dBm	9.7	Restricted Band Edge at 2390 MHz	15.209	53.0dB $\mu$ V/m @ 2389.4MHz (-1.0dB)
		#9 2452MHz	10.0dBm	10.2	Restricted Band Edge at 2483.5 MHz	15.209	52.0dB $\mu$ V/m @ 2483.5MHz (-2.0dB)
Run # 2	802.11n20 Chain A	#1 2412MHz	13.1dBm	13.0	Restricted Band Edge at 2390 MHz	15.209	53.4dB $\mu$ V/m @ 2390.0MHz (-0.6dB)
		#11 2462MHz	12.4dBm	12.4	Restricted Band Edge at 2483.5 MHz	15.209	51.1dB $\mu$ V/m @ 2483.6MHz (-2.9dB)
	802.11n20 Chain B	#1 2412MHz	12.9dBm	12.8	Restricted Band Edge at 2390 MHz	15.209	50.6dB $\mu$ V/m @ 2389.9MHz (-3.4dB)
		#11 2462MHz	12.8dBm	12.9	Restricted Band Edge at 2483.5 MHz	15.209	50.4dB $\mu$ V/m @ 2483.6MHz (-3.6dB)

Spurious radiated emissions were made on the worst-case mode (based on the original measurements made on the device with a PIFA antenna) in each band for OFDM and DSS modulations.

Run #	Mode	Channel	Target Power	Measured Power	Test Performed	Limit	Result / Margin
Run # 3	802.11g Chain A	#6 2437MHz	16.5dBm	16.7	Radiated Emissions, 1 - 26 GHz	FCC 15.209 / 15.247	34.5dB $\mu$ V/m @ 1597.6MHz (-19.5dB)
			16.5dBm	16.8			39.2dB $\mu$ V/m @ 4874.1MHz (-14.8dB)
	802.11g Chain B	#1 2412MHz	16.5dBm	16.6			37.2dB $\mu$ V/m @ 1598.2MHz (-16.8dB)
		#11 2462MHz	16.5dBm	16.8			39.4dB $\mu$ V/m @ 1593.9MHz (-14.6dB)



## EMC Test Data

Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210		Class: N/A

Spurious emissions away from the band edges - continued

Run #	Mode	Channel	Target Power	Measured Power	Test Performed	Limit	Result / Margin
Run # 4	802.11b Chain A	#6 2437MHz	15.5dBm	15.5	Radiated Emissions, 1 - 26 GHz	FCC 15.209 / 15.247	46.4dB $\mu$ V/m @ 4873.9MHz (-7.6dB)
	802.11b Chain B		15.5dBm	15.6			42.8dB $\mu$ V/m @ 4873.9MHz (-11.2dB)
	802.11b Chain A	#1 2412MHz	15.5dBm	15.5			43.9dB $\mu$ V/m @ 4824.0MHz (-10.1dB)
		#11 2462MHz	15.5dBm	15.6			32.8dB $\mu$ V/m @ 1600.3MHz (-21.2dB)
Run # 5	802.11n20 Chain A+B	#149 5745MHz	A:16.5	A:16.7	Radiated Emissions, 1 - 40 GHz	FCC 15.209 / 15.247	41.2dB $\mu$ V/m @ 11489.8MHz (-12.8dB)
			B:16.5	B:16.8			40.8dB $\mu$ V/m @ 11569.9MHz (-13.2dB)
		#157 5785MHz	A:16.5	A:16.6			<b>42.9dB<math>\mu</math>V/m@11649.7 MHz (-11.1dB)</b>
		#165 5825MHz	A:16.5	A:16.5			
	Receiver Chain A	#6 2437MHz	-	-	Radiated Emissions, 1 - 7.5 GHz	RSS GEN	46.8dB $\mu$ V/m @ 3000.4MHz (-7.2dB)
	Receiver Chain B	#6 2437MHz	-	-	Radiated Emissions, 1 - 7.5 GHz		<b>47.2dB<math>\mu</math>V/m @ 3000.3MHz (-6.8dB)</b>
	Receiver Chain A+B	#157 5785MHz	-	-	Radiated Emissions, 1 - 18 GHz		46.4dB $\mu$ V/m @ 3000.3MHz (-7.6dB)

### General Test Configuration

The EUT and all local support equipment were located on the turntable for radiated spurious emissions testing. For radiated emissions testing the measurement antenna was located 3 meters from the EUT.

**Ambient Conditions:** Temperature: 15-25 °C  
Rel. Humidity: 30-80 %

### Modifications Made During Testing

No modifications were made to the EUT during testing



## EMC Test Data

Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

### Run # 1, Band Edge Field Strength - 802.11n40

Sample: 001500634F48

Date of Test: 6/13/2011

Test Location: FT Chamber #5

Test Engineer: Rafael Varelas

Config Change: none

### Run # 1a, EUT on Channel #3 2422MHz - 802.11n40, Chain A

	Power Settings		
	Target (dBm)	Measured (dBm)	Software Setting
Chain A	9.1	23.0	9.1

### Fundamental Signal Field Strength

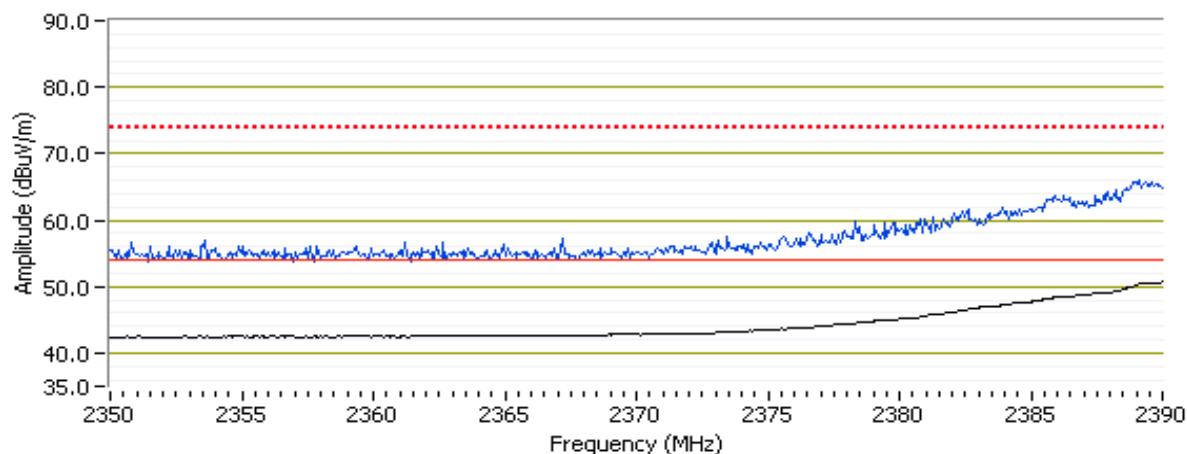
Frequency	Level	Pol	15.209 / 15.247	Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters
2425.200	90.2	V	-	-	AVG	302	1.0
2425.800	98.1	V	-	-	PK	302	1.0
2427.270	90.9	V	-	-	PK	304	1.0
2425.200	84.1	H	-	-	AVG	357	1.1
2429.130	92.6	H	-	-	PK	357	1.1

### Direct measurement of field strength at the 2390 MHz bandedge

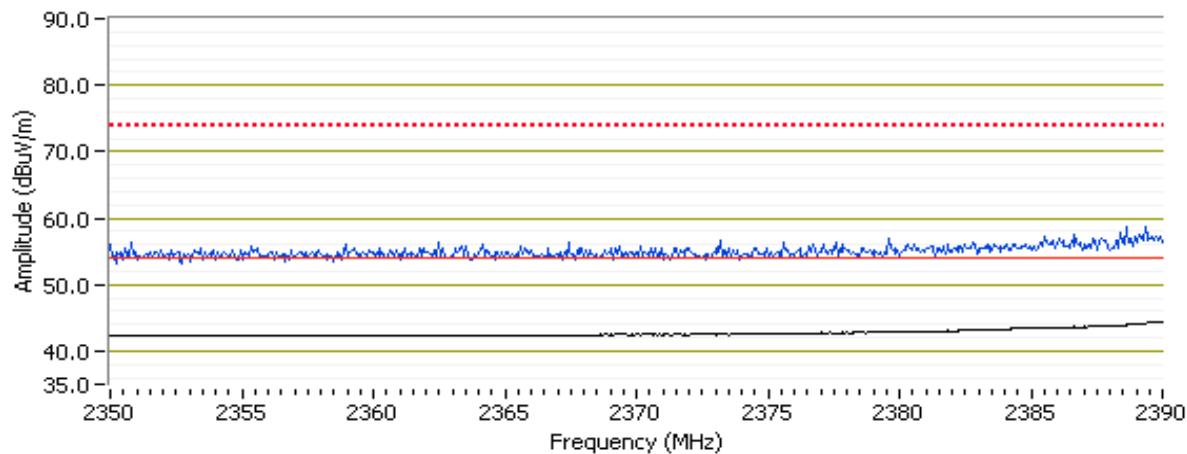
Frequency	Level	Pol	15.209 / 15.247	Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters
2389.910	53.0	V	54.0	-1.0	AVG	305	1.0
2389.630	66.0	V	74.0	-8.0	PK	305	1.0
2389.730	46.4	H	54.0	-7.6	AVG	194	1.3
2389.960	58.6	H	74.0	-15.4	PK	194	1.3

Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

RB 1 MHz; VB 10 Hz Avg (Black Trace); RB=VB=1MHz Pk (Blue Trace) Vertical



RB 1 MHz; VB 10 HzHorizontal





## EMC Test Data

Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 1b, EUT on Channel #3 2452MHz - 802.11n40, Chain A

	Power Settings		
	Target (dBm)	Measured (dBm)	Software Setting
Chain A	9.6	9.6	23.0

### Fundamental Signal Field Strength

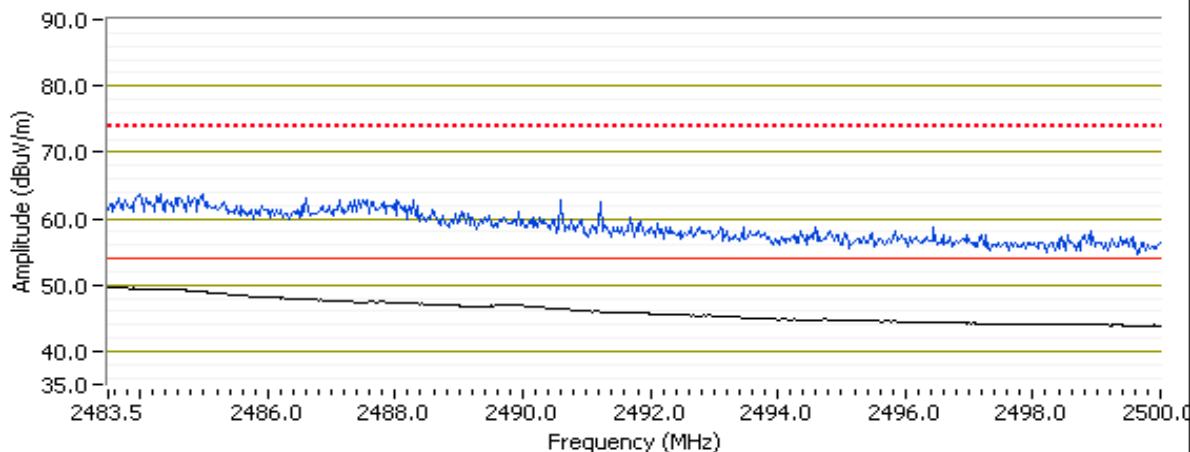
Frequency	Level	Pol	15.209 / 15.247	Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters
2460.470	91.2	V	-	-	AVG	299	1.0
2464.800	99.3	V	-	-	PK	299	1.0
2460.070	92.1	V	-	-	PK	299	1.0
2464.730	83.8	H	-	-	AVG	318	1.0
2464.800	92.0	H	-	-	PK	318	1.0

### Direct measurement of field strength at the 2483.5 MHz bandedge

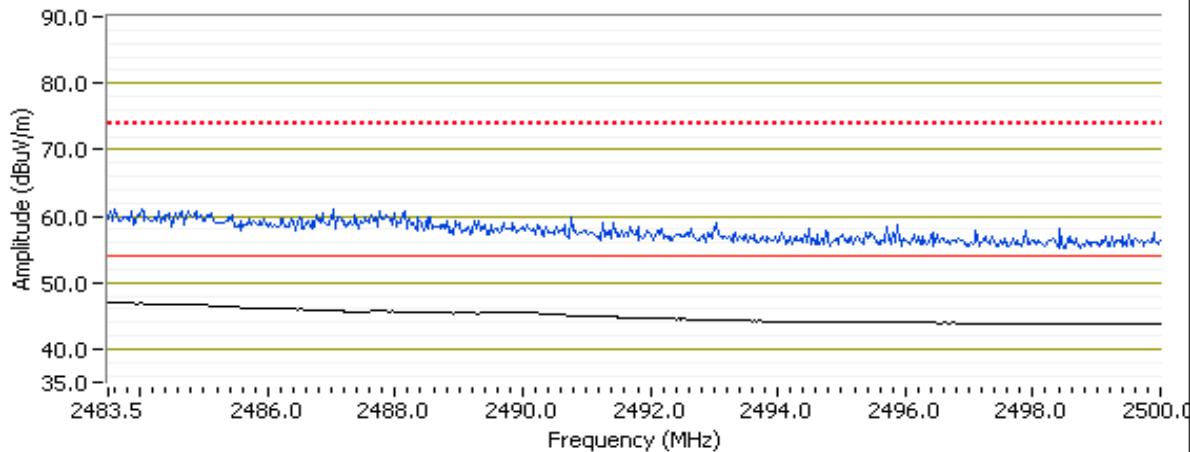
Frequency	Level	Pol	15.209 / 15.247	Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters
2483.530	51.9	V	54.0	-2.1	AVG	296	1.0
2484.550	64.0	V	74.0	-10.0	PK	296	1.0
2483.500	49.1	H	54.0	-4.9	AVG	340	1.0
2485.170	61.0	H	74.0	-13.0	PK	340	1.0

Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

RB 1 MHz; VB 10 HzVertical



RB 1 MHz; VB 10 HzHorizontal





## EMC Test Data

Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 1c, EUT on Channel #3 2422MHz - 802.11n40, Chain B

	Power Settings		
	Target (dBm)	Measured (dBm)	Software Setting
Chain B	9.5	9.7	22.0

### Fundamental Signal Field Strength

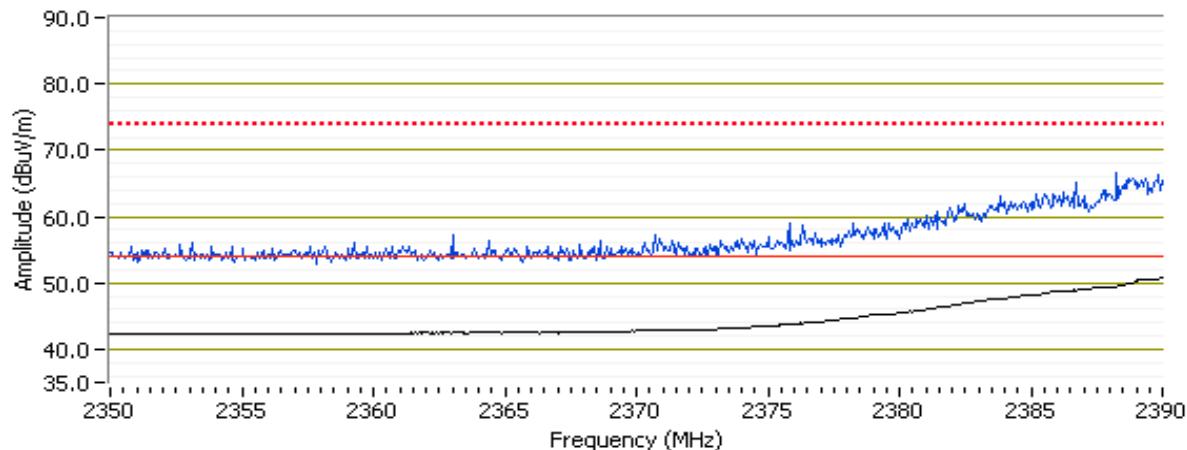
Frequency	Level	Pol	15.209 / 15.247		Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
2425.400	91.0	V	-	-	AVG	349	1.1	RB 1 MHz;VB 10 Hz;Pk
2429.730	99.1	V	-	-	PK	349	1.1	RB 1 MHz;VB 3 MHz;Pk
2419.730	91.6	V	-	-	PK	349	1.1	RB 100 kHz;VB 100 kHz;Pk
2430.270	85.3	H	-	-	AVG	288	1.0	RB 1 MHz;VB 10 Hz;Pk
2429.600	93.6	H	-	-	PK	288	1.0	RB 1 MHz;VB 3 MHz;Pk

### Direct measurement of field strength at the 2390 MHz bandedge

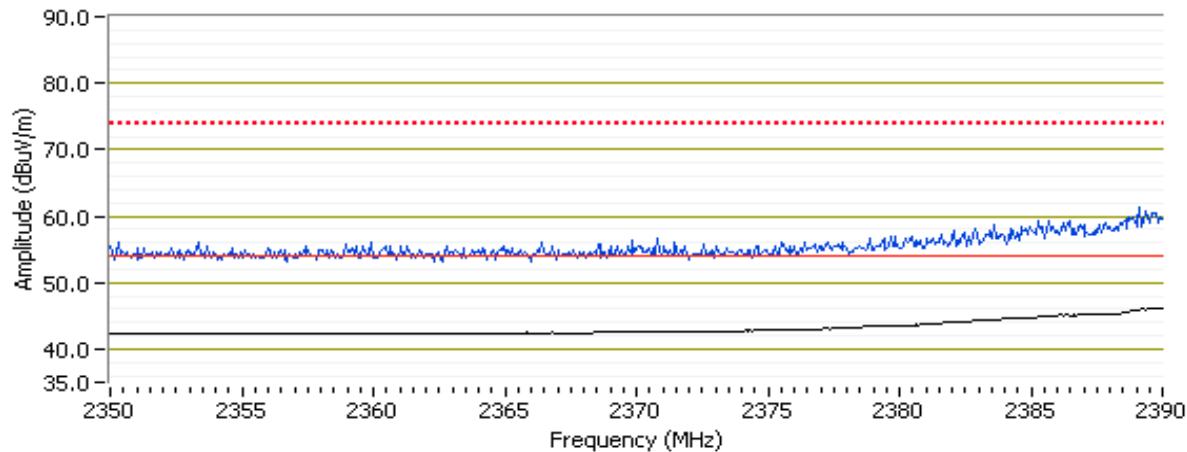
Frequency	Level	Pol	15.209 / 15.247		Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
2389.430	53.0	V	54.0	-1.0	AVG	22	1.1	RB 1 MHz;VB 10 Hz;Pk
2389.790	66.0	V	74.0	-8.0	PK	22	1.1	RB 1 MHz;VB 3 MHz;Pk
2389.230	48.3	H	54.0	-5.7	AVG	287	1.0	RB 1 MHz;VB 10 Hz;Pk
2389.350	61.7	H	74.0	-12.3	PK	287	1.0	RB 1 MHz;VB 3 MHz;Pk

Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

RB 1 MHz; VB 10 Hz Avg (Black Trace); RB=VB=1MHz PK (Black Trace) Vertical



RB 1 MHz; VB 10 Hz Avg (Black Trace); RB=VB=1MHz PK (Black Trace) Horizontal





## EMC Test Data

Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 1d, EUT on Channel #3 2452MHz - 802.11n40, Chain B

	Power Settings		
	Target (dBm)	Measured (dBm)	Software Setting
Chain B	10.0	10.2	22.5

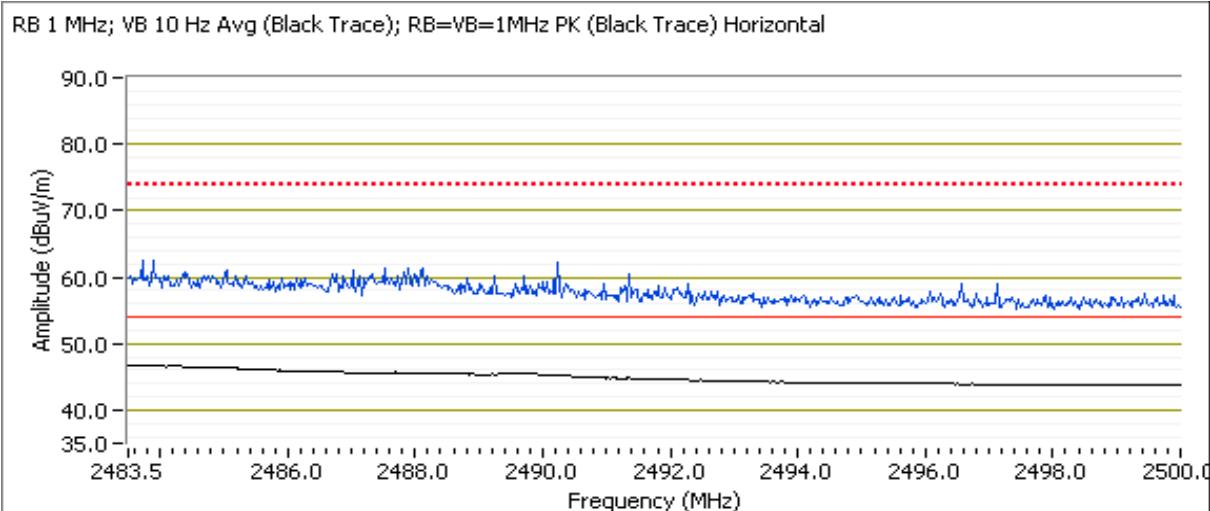
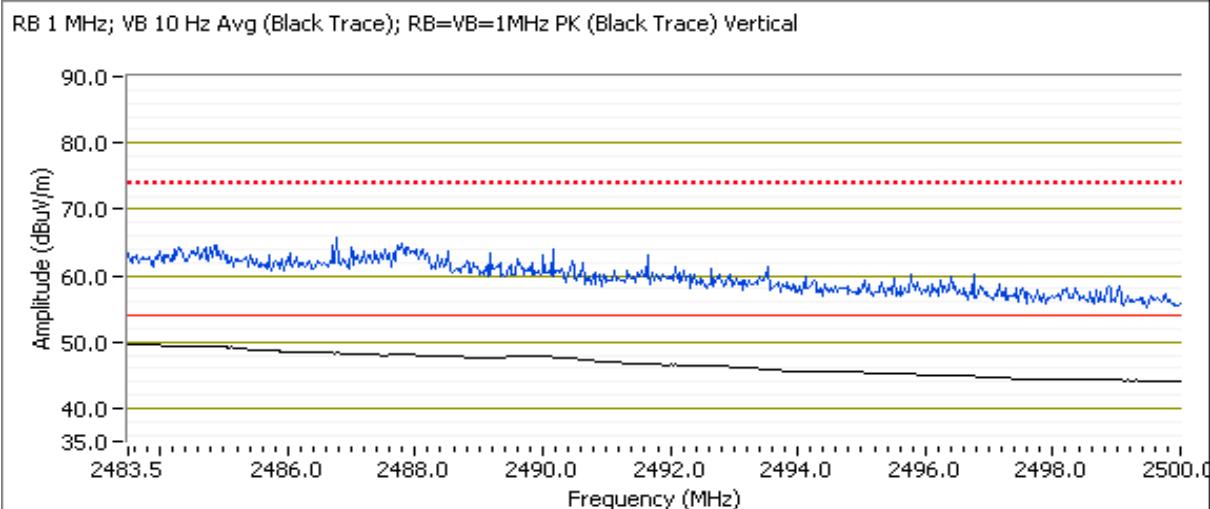
### Fundamental Signal Field Strength

Frequency	Level	Pol	15.209 / 15.247	Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters
2439.530	90.7	V	-	-	AVG	45	1.1
2440.600	98.7	V	-	-	PK	45	1.1
2440.870	91.0	V	-	-	PK	45	1.1
2464.670	84.8	H	-	-	AVG	285	1.0
2462.800	93.0	H	-	-	PK	285	1.0

### Direct measurement of field strength at the 2483.5 MHz bandedge

Frequency	Level	Pol	15.209 / 15.247	Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters
2483.540	52.0	V	54.0	-2.0	AVG	360	1.0
2484.930	64.8	V	74.0	-9.2	PK	360	1.0
2483.500	48.7	H	54.0	-5.3	AVG	290	1.0
2483.600	61.8	H	74.0	-12.2	PK	290	1.0

Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A





## EMC Test Data

Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
Contact:	Steven Hackett	Account Manager:	Christine Krebil
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

### Run # 2, Band Edge Field Strength - 802.11n20

Date of Test: 6/13/2011

Test Location: FT Chamber #5

Test Engineer: Rafael Varelas

Config Change: none

### Run # 2a, EUT on Channel #1 2412MHz - 802.11n20, Chain A

	Power Settings		
	Target (dBm)	Measured (dBm)	Software Setting
Chain A	13.1	13.0	27.5

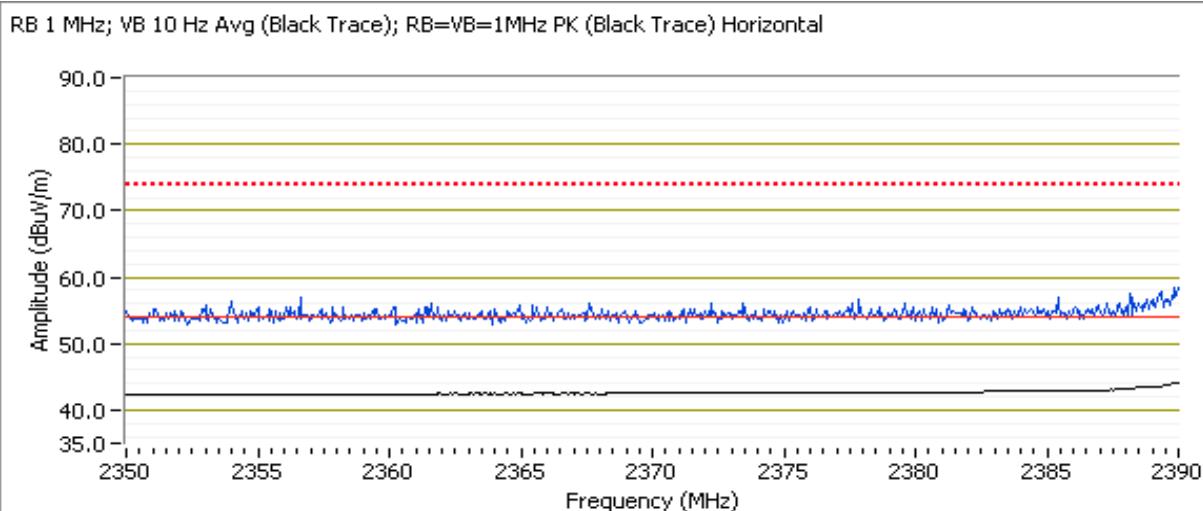
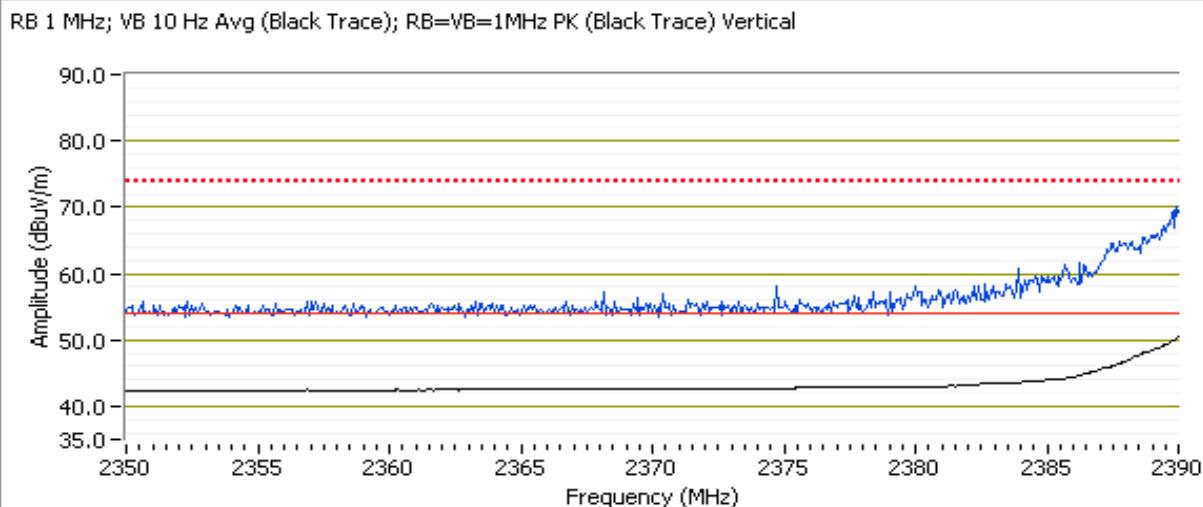
### Fundamental Signal Field Strength

Frequency	Level	Pol	15.209 / 15.247		Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
2407.770	97.0	V	-	-	AVG	299	1.0	RB 1 MHz;VB 10 Hz;Pk
2407.200	105.3	V	-	-	PK	299	1.0	RB 1 MHz;VB 3 MHz;Pk
2413.430	97.4	V	-	-	PK	299	1.0	RB 100 kHz;VB 100 kHz;Pk
2415.270	90.2	H	-	-	AVG	358	1.1	RB 1 MHz;VB 10 Hz;Pk
2415.470	98.2	H	-	-	PK	358	1.1	RB 1 MHz;VB 3 MHz;Pk

### Direct measurement of field strength at the 2390 MHz bandedge

Frequency	Level	Pol	15.209 / 15.247		Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
2389.980	53.4	V	54.0	-0.6	AVG	233	1.0	RB 1 MHz;VB 10 Hz;Pk
2389.950	70.2	V	74.0	-3.8	PK	233	1.0	RB 1 MHz;VB 3 MHz;Pk
2389.740	46.1	H	54.0	-7.9	AVG	128	1.1	RB 1 MHz;VB 10 Hz;Pk
2389.930	59.1	H	74.0	-14.9	PK	128	1.1	RB 1 MHz;VB 3 MHz;Pk

Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A





## EMC Test Data

Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole		T-Log Number: T83587
			Account Manager: Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 2b, EUT on Channel #11 2462MHz - 802.11n20, Chain A

	Power Settings		
	Target (dBm)	Measured (dBm)	Software Setting
Chain A	12.4	12.4	26.0

### Fundamental Signal Field Strength

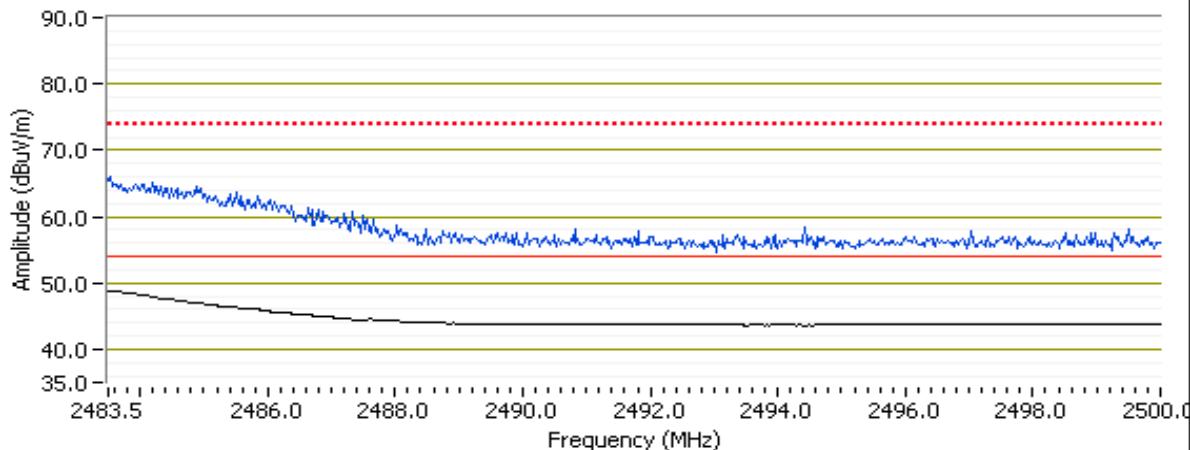
Frequency	Level	Pol	15.209 / 15.247	Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters
2460.700	96.1	V	-	-	AVG	301	1.2
2460.870	104.2	V	-	-	PK	301	1.2
2460.900	94.8	V	-	-	PK	301	1.2
2465.000	90.6	H	-	-	AVG	336	1.0
2463.930	98.9	H	-	-	PK	336	1.0

### Direct measurement of field strength at the 2483.5 MHz bandedge

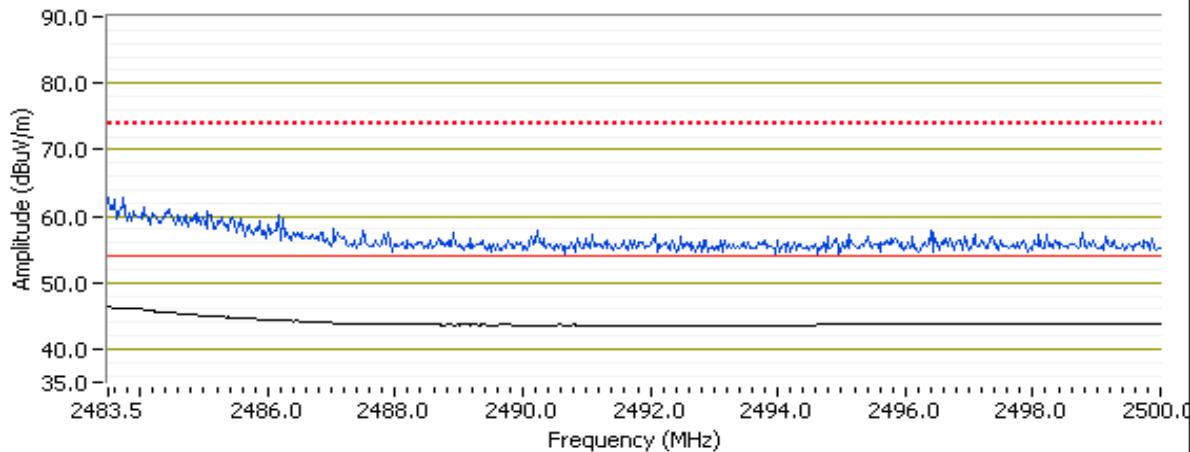
Frequency	Level	Pol	15.209 / 15.247	Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters
2483.560	51.1	V	54.0	-2.9	AVG	277	1.0
2483.590	65.1	V	74.0	-8.9	PK	277	1.0
2483.510	48.3	H	54.0	-5.7	AVG	336	1.0
2483.700	62.3	H	74.0	-11.7	PK	336	1.0

Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

RB 1 MHz; VB 10 Hz Avg (Black Trace); RB=VB=1MHz PK (Black Trace) Vertical



RB 1 MHz; VB 10 Hz Avg (Black Trace); RB=VB=1MHz PK (Black Trace) Horizontal





## EMC Test Data

Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 2c, EUT on Channel #1 2412MHz - 802.11n20, Chain B

	Power Settings		
	Target (dBm)	Measured (dBm)	Software Setting
Chain B	12.9	12.8	25.5

### Fundamental Signal Field Strength

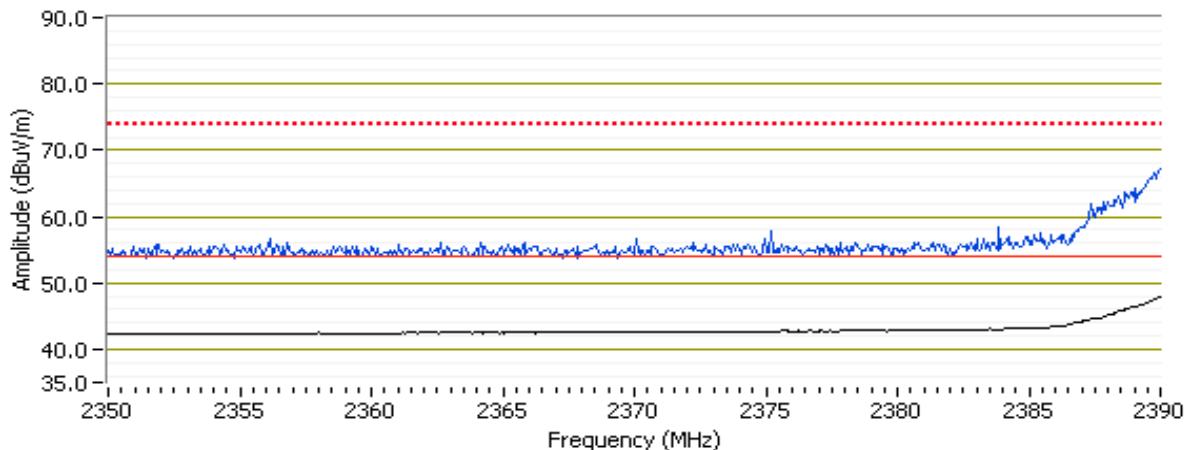
Frequency	Level	Pol	15.209 / 15.247	Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters
2415.030	95.8	V	-	-	AVG	21	1.0
2416.370	103.9	V	-	-	PK	21	1.0
2414.700	96.0	V	-	-	PK	21	1.0
2414.970	90.1	H	-	-	AVG	287	1.0
2414.030	98.4	H	-	-	PK	287	1.0

### Direct measurement of field strength at the 2390 MHz bandedge

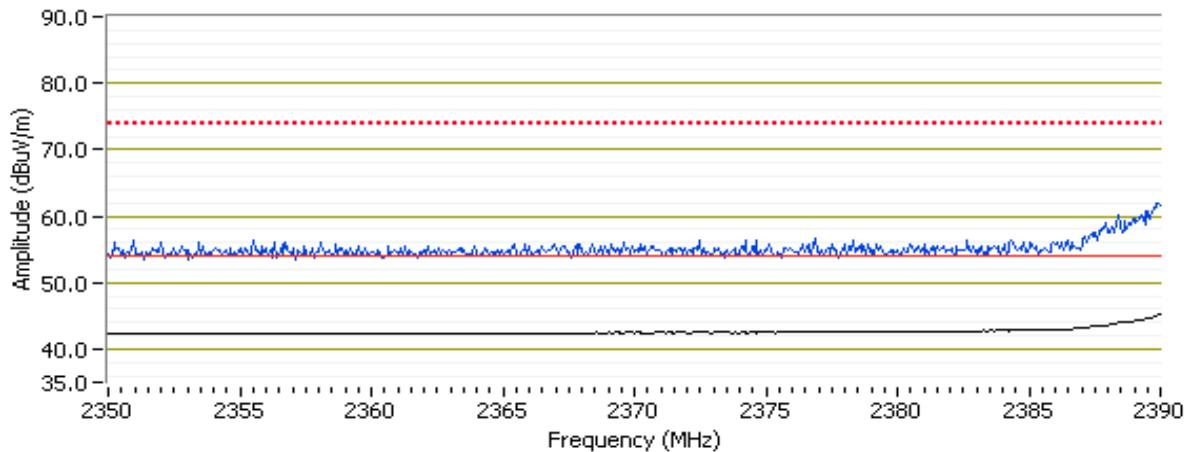
Frequency	Level	Pol	15.209 / 15.247	Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters
2389.920	50.6	V	54.0	-3.4	AVG	20	1.0
2389.780	67.1	V	74.0	-6.9	PK	20	1.0
2389.950	47.4	H	54.0	-6.6	AVG	287	1.0
2389.820	62.8	H	74.0	-11.2	PK	287	1.0

Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

RB 1 MHz; VB 10 Hz Avg (Black Trace); RB=VB=1MHz PK (Black Trace) Vertical



RB 1 MHz; VB 10 Hz Avg (Black Trace); RB=VB=1MHz PK (Black Trace) Horizontal



Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

**Run # 2d, EUT on Channel #11 2462MHz - 802.11n20, Chain B**

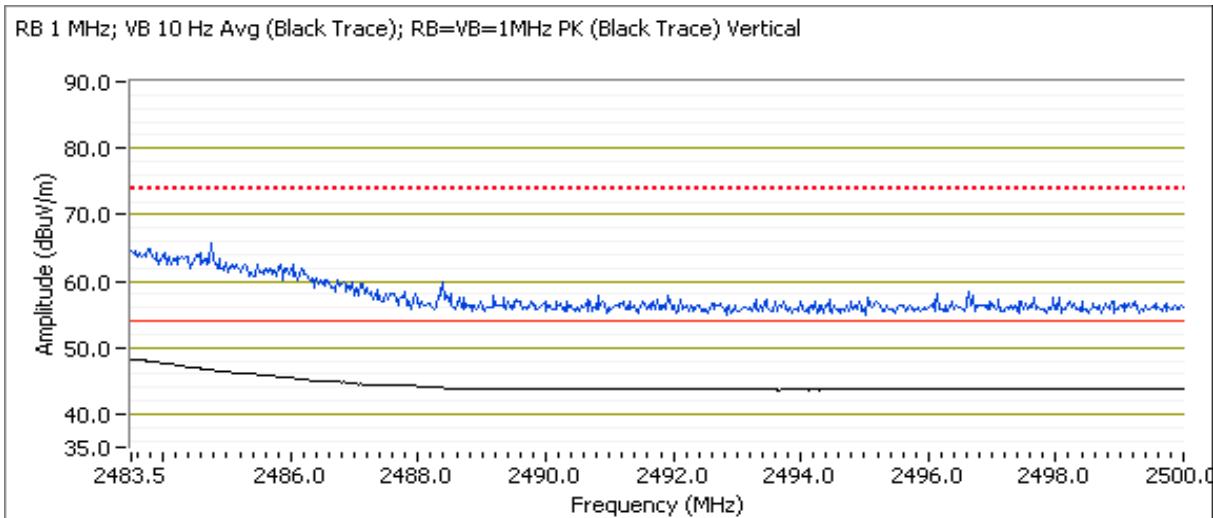
	Power Settings		
	Target (dBm)	Measured (dBm)	Software Setting
Chain B	12.8	12.9	25.5

**Fundamental Signal Field Strength**

Frequency	Level	Pol	15.209 / 15.247	Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters
2459.570	95.8	V	-	-	AVG	12	1.1
2461.270	103.9	V	-	-	PK	12	1.1
2457.070	97.2	V	-	-	PK	12	1.1
2464.900	90.6	H	-	-	AVG	287	1.0
2464.030	98.8	H	-	-	PK	287	1.0

**Direct measurement of field strength at the 2483.5 MHz bandedge**

Frequency	Level	Pol	15.209 / 15.247	Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters
2483.560	50.4	V	54.0	-3.6	AVG	350	1.0
2483.530	65.2	V	74.0	-8.8	PK	350	1.0
2483.680	47.0	H	54.0	-7.0	AVG	114	1.0
2483.650	60.0	H	74.0	-14.0	PK	114	1.0



Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

**Run # 3, Radiated Spurious Emissions, 1-26GHz, 802.11g**

Date of Test: 6/13/2011

Test Location: FT Chamber #5

Test Engineer: Rafael Varelas

Config Change: none

**Run # 3a, EUT on Channel #6 (2437MHz) - 802.11g, Chain A**

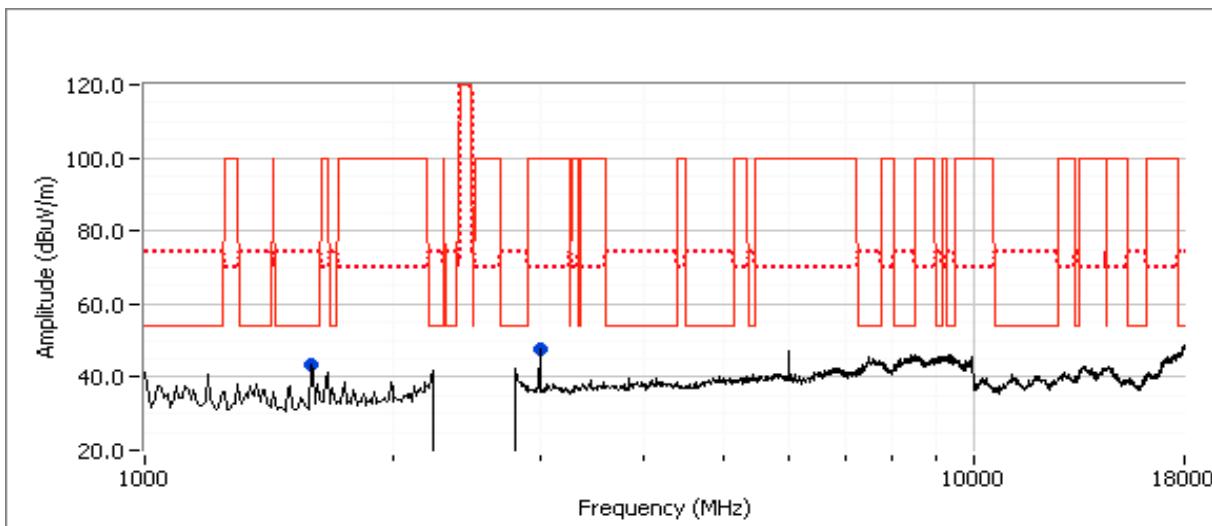
	Target (dBm)	Power Settings	
		Measured (dBm)	Software Setting
Chain A	16.5	16.7	31.0

**Spurious Radiated Emissions:**

Frequency	Level	Pol	15.209/15.247	Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters
1597.560	34.5	V	54.0	-19.5	AVG	125	1.2
1598.590	48.1	V	74.0	-25.9	PK	125	1.2
3000.150	47.4	H	70.0	-22.6	Peak	167	1.0

Note 1:	For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit is -30dBc for peak measurements in a measurement bandwidth of 100kHz.
Note 2:	No significant emissions above 18GHz



Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

**Run # 3b, EUT on Channel #6 (2437MHz) - 802.11g, Chain B**

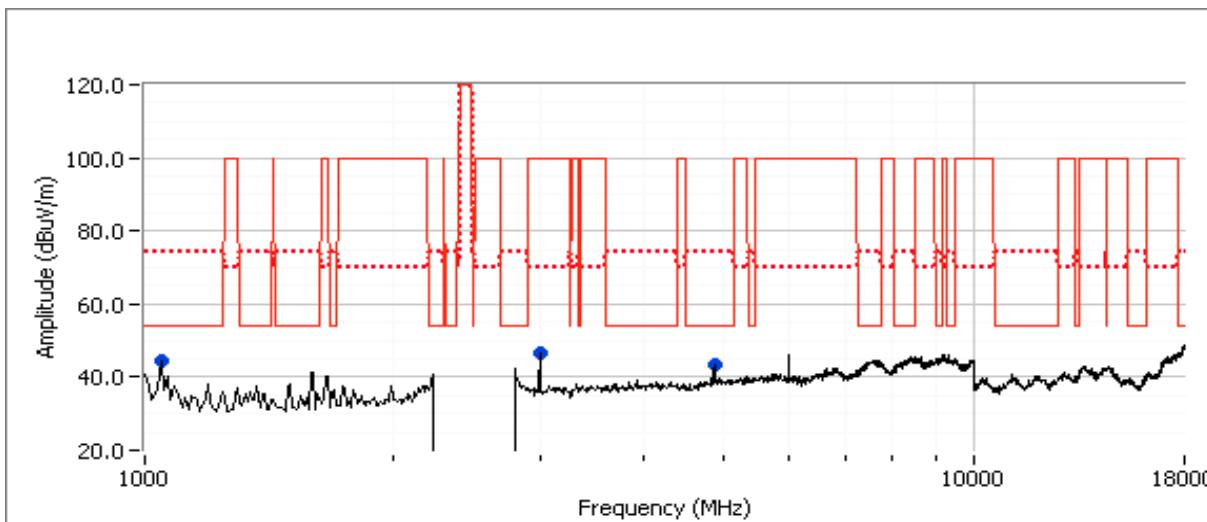
	Power Settings		
	Target (dBm)	Measured (dBm)	Software Setting
Chain B	16.5	16.8	29.5

**Spurious Radiated Emissions:**

Frequency	Level	Pol	15.209/15.247		Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
4874.050	39.2	V	54.0	-14.8	AVG	44	1.0	RB 1 MHz;VB 10 Hz;Pk
4875.920	51.2	V	74.0	-22.8	PK	44	1.0	RB 1 MHz;VB 3 MHz;Pk
1031.760	31.0	V	54.0	-23.0	AVG	141	1.1	RB 1 MHz;VB 10 Hz;Pk
1040.430	43.3	V	74.0	-30.7	PK	141	1.1	RB 1 MHz;VB 3 MHz;Pk
2999.610	46.8	V	70.0	-23.2	Peak	130	1.3	

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit is -30dBc for peak measurements in a measurement bandwidth of 100kHz.

Note 2: No significant emissions above 18GHz



Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 3c: , EUT on Channel #1 2412MHz - 802.11g, Chain B (worst case from run #3a and run #3b)

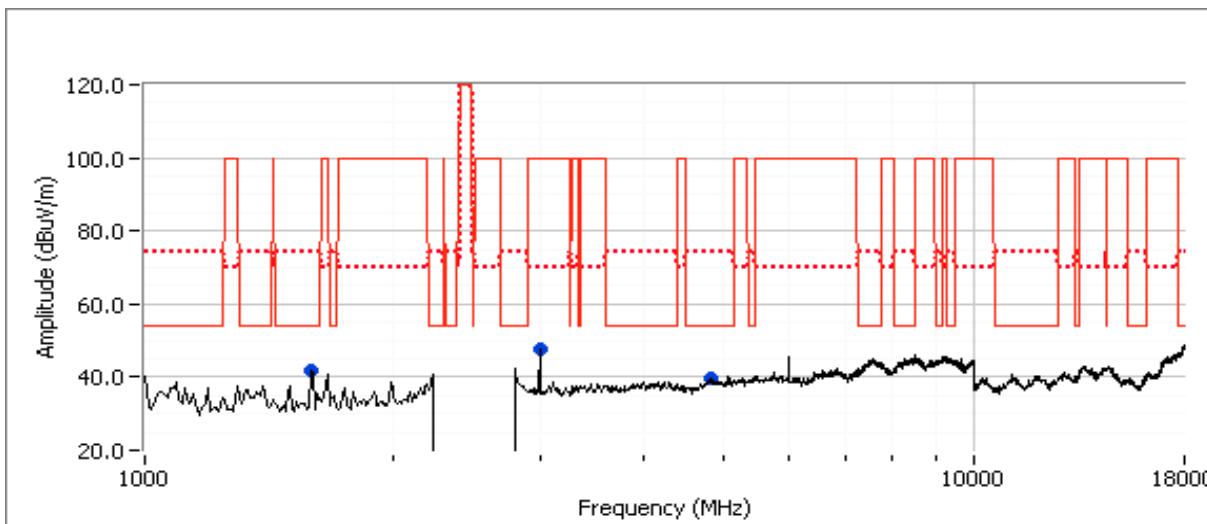
	Power Settings		
	Target (dBm)	Measured (dBm)	Software Setting
Chain B	16.5	16.6	29.5

**Spurious Radiated Emissions:**

Frequency	Level	Pol	15.209/15.247		Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
1598.150	37.2	V	54.0	-16.8	AVG	117	1.0	RB 1 MHz;VB 10 Hz;Pk
1598.340	51.7	V	74.0	-22.3	PK	117	1.0	RB 1 MHz;VB 3 MHz;Pk
4824.040	34.3	V	54.0	-19.7	AVG	231	1.0	RB 1 MHz;VB 10 Hz;Pk
4821.640	45.9	V	74.0	-28.1	PK	231	1.0	RB 1 MHz;VB 3 MHz;Pk
3000.250	47.6	H	70.0	-22.4	Peak	152	1.3	

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit is -30dBc for peak measurements in a measurement bandwidth of 100kHz.

Note 2: No significant emissions above 18GHz



Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 3d: , EUT on Channel #11 2462MHz - 802.11g, Chain B (worst case from run #3a and run #3b)

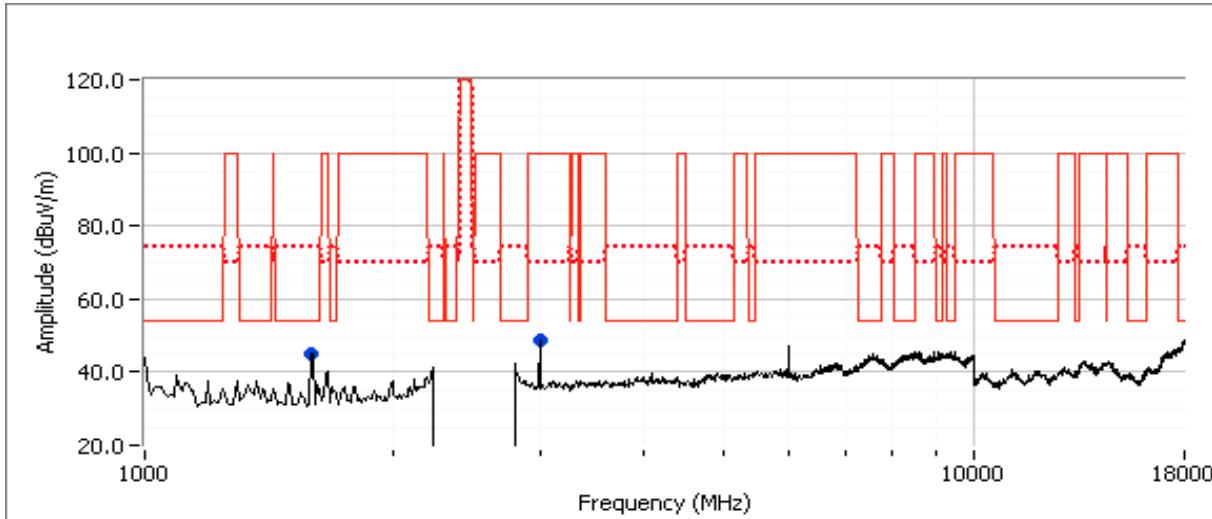
	Power Settings		
	Target (dBm)	Measured (dBm)	Software Setting
Chain B	16.5	16.8	29.5

**Spurious Radiated Emissions:**

Frequency	Level	Pol	15.209/15.247		Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
1593.870	39.4	V	54.0	-14.6	AVG	197	1.0	RB 1 MHz;VB 10 Hz;Pk
1593.960	54.2	V	74.0	-19.8	PK	197	1.0	RB 1 MHz;VB 3 MHz;Pk
3000.250	48.6	H	70.0	-21.4	Peak	210	1.0	

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit is -30dBc for peak measurements in a measurement bandwidth of 100kHz.

Note 2: No significant emissions above 18GHz



Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

**Run # 4, Radiated Spurious Emissions, 1-26GHz, 802.11b**

Date of Test: 6/14/2011

Test Location: FT Chamber #4

Test Engineer: M. Birgani

Config Change: None

**Run # 4a, EUT on Channel #6 (2437MHz) - 802.11b, Chain A**

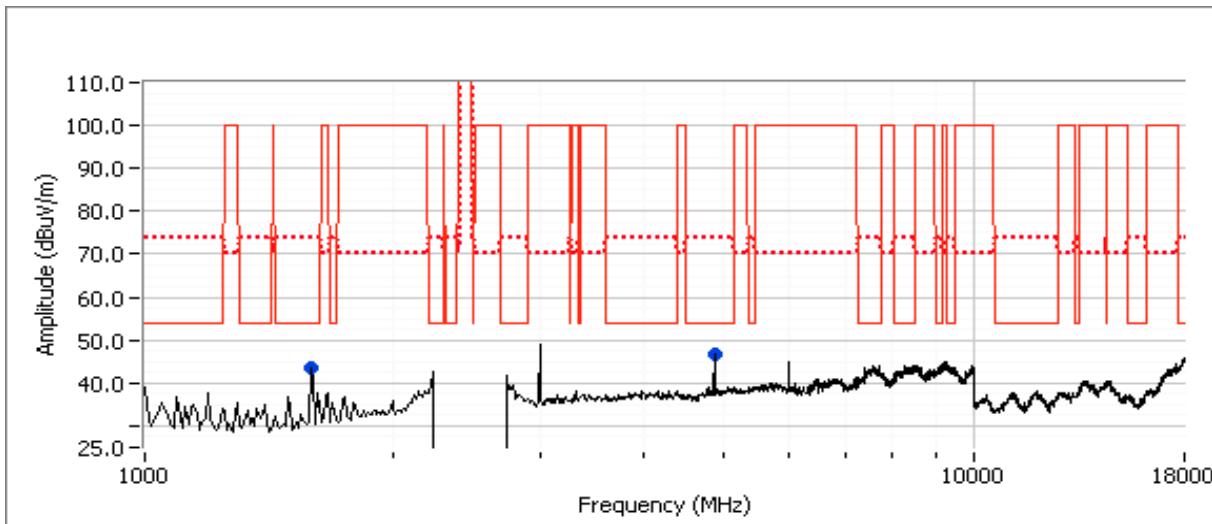
	Target (dBm)	Power Settings	
		Measured (dBm)	Software Setting
Chain A	15.5	15.5	25.5

**Spurious Radiated Emissions:**

Frequency	Level	Pol	15.209/15.247	Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters
4873.930	46.4	V	54.0	-7.6	AVG	173	1.0
1594.960	35.0	V	54.0	-19.0	AVG	200	1.0
4873.920	50.9	V	74.0	-23.1	PK	173	1.0
1595.030	49.5	V	74.0	-24.5	PK	200	1.0

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit is -30dBc for peak measurements in a measurement bandwidth of 100kHz.

Note 2: No significant emissions above 18GHz



Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

**Run # 4b, EUT on Channel #6 (2437MHz) - 802.11b, Chain B**

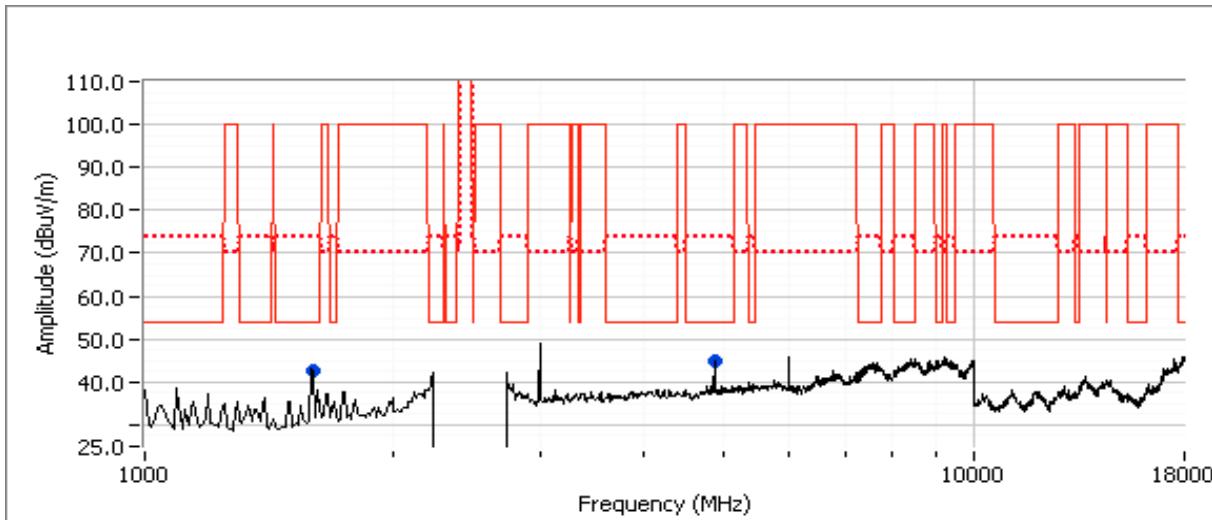
	Power Settings		
	Target (dBm)	Measured (dBm)	Software Setting
Chain B	15.5	15.6	24.0

**Spurious Radiated Emissions:**

Frequency	Level	Pol	15.209/15.247		Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
4873.940	42.8	V	54.0	-11.2	AVG	55	1.3	RB 1 MHz;VB 10 Hz;Pk
1594.220	37.2	V	54.0	-16.8	AVG	203	1.0	RB 1 MHz;VB 10 Hz;Pk
1596.920	51.6	V	74.0	-22.4	PK	203	1.0	RB 1 MHz;VB 3 MHz;Pk
4873.940	48.3	V	74.0	-25.7	PK	55	1.3	RB 1 MHz;VB 3 MHz;Pk

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit is -30dBc for peak measurements in a measurement bandwidth of 100kHz.

Note 2: No significant emissions above 18GHz



Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

**Run # 4c: , EUT on Channel #1 2412MHz - 802.11b, Chain A (worst case from run #4a and run #4b)**

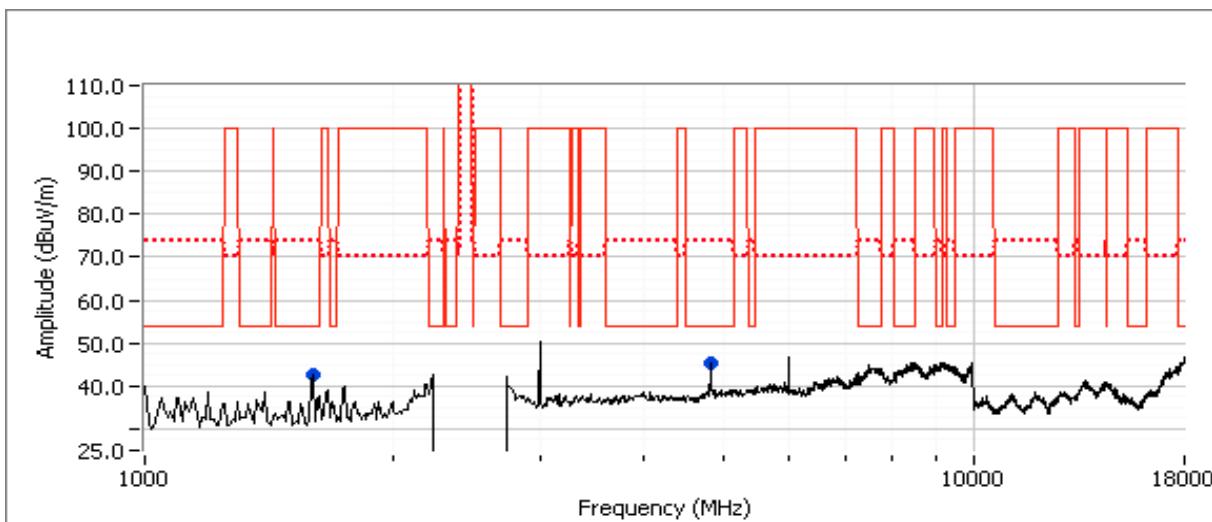
	Power Settings		
	Target (dBm)	Measured (dBm)	Software Setting
Chain A	15.5	15.5	25.5

**Spurious Radiated Emissions:**

Frequency	Level	Pol	15.209/15.247		Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
4823.980	43.9	V	54.0	-10.1	AVG	175	1.1	RB 1 MHz;VB 10 Hz;Pk
1600.140	32.7	V	54.0	-21.3	AVG	216	1.0	RB 1 MHz;VB 10 Hz;Pk
4823.910	48.8	V	74.0	-25.2	PK	175	1.1	RB 1 MHz;VB 3 MHz;Pk
1594.390	46.6	V	74.0	-27.4	PK	216	1.0	RB 1 MHz;VB 3 MHz;Pk

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit is -30dBc for peak measurements in a measurement bandwidth of 100kHz.

Note 2: No significant emissions above 18GHz



Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

**Run # 4d: , EUT on Channel #11 2462MHz - 802.11b, Chain A (worst case from run #4a and run #4b)**

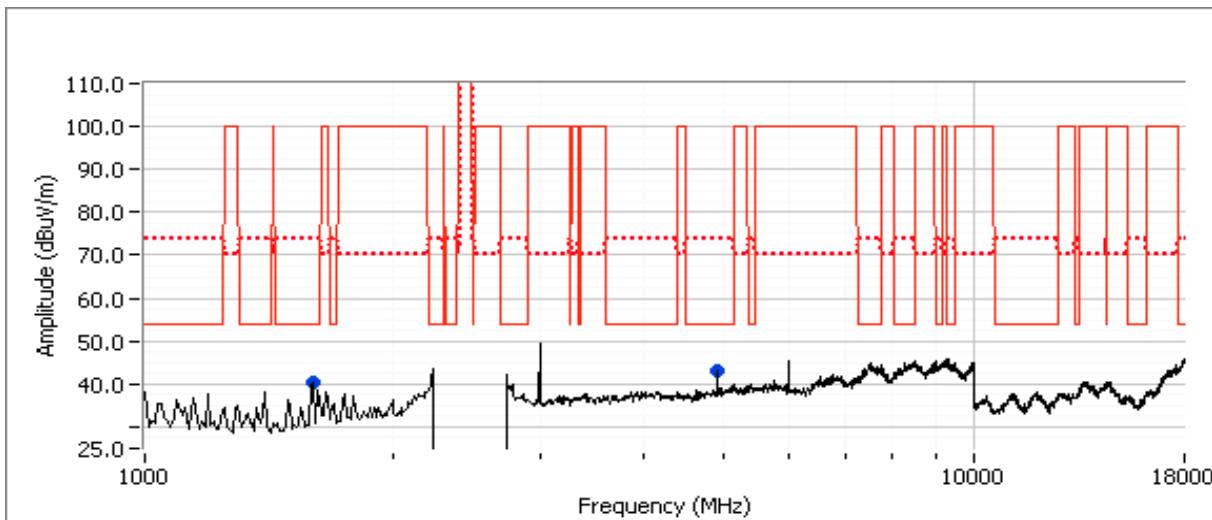
	Power Settings		
	Target (dBm)	Measured (dBm)	Software Setting
Chain A	15.5	15.6	25.5

**Spurious Radiated Emissions:**

Frequency	Level	Pol	15.209/15.247		Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
4923.920	42.6	V	54.0	-11.4	AVG	182	1.2	RB 1 MHz;VB 10 Hz;Pk
1600.250	32.8	V	54.0	-21.2	AVG	219	1.0	RB 1 MHz;VB 10 Hz;Pk
4923.850	48.4	V	74.0	-25.6	PK	182	1.2	RB 1 MHz;VB 3 MHz;Pk
1593.650	42.7	V	74.0	-31.3	PK	219	1.0	RB 1 MHz;VB 3 MHz;Pk

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit is -30dBc for peak measurements in a measurement bandwidth of 100kHz.

Note 2: No significant emissions above 18GHz



Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

**Run # 5, Radiated Spurious Emissions, 1-26GHz, 802.11n20, Chain A+B**

Date of Test: 6/15/2011

Test Location: FT Chamber #4

Test Engineer: Rafael Varelas

Config Change: -

**Run # 5a, EUT on Channel #149 5745MHz - 802.11n20, Chain A+B**

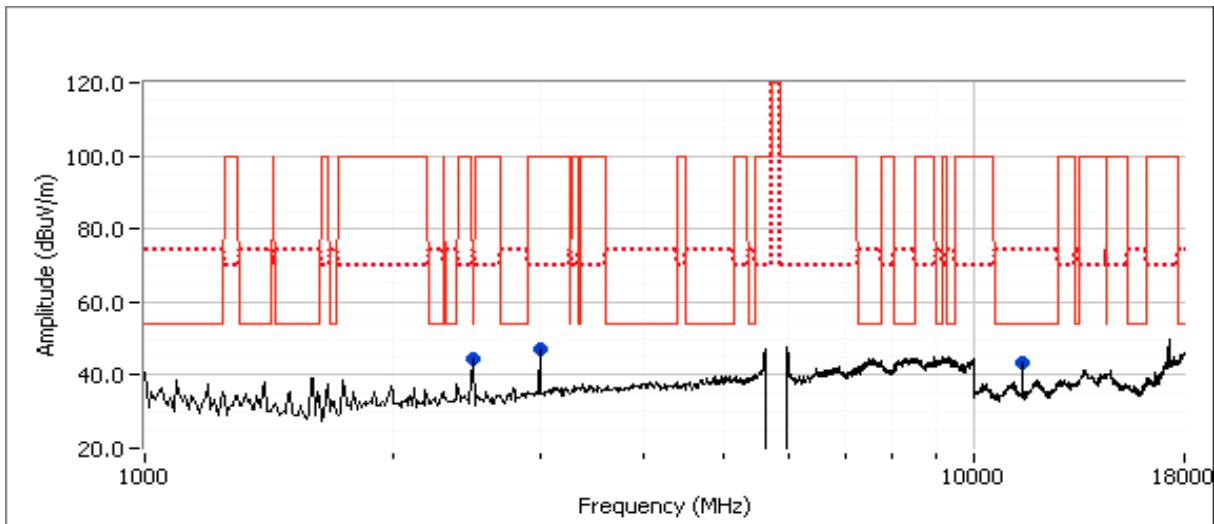
Chain	Power Settings								
	Target (dBm)				Measured (dBm)				Software Setting
	A	B	C	Total	A	B	C	Total	
	16.5	16.5		19.5	16.7	16.8		19.8	34.0/33.0

**Spurious Radiated Emissions:**

Frequency	Level	Pol	15.209/15.247	Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters
11489.800	41.2	V	54.0	-12.8	AVG	25	1.8
11496.670	51.9	V	74.0	-22.1	PK	25	1.8
2490.180	34.4	H	54.0	-19.6	AVG	221	1.0
2490.260	55.8	H	74.0	-18.2	PK	221	1.0
3001.260	47.1	H	70.0	-22.9	Peak	223	1.0

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit is -30dBc for peak measurements in a measurement bandwidth of 100kHz.

Note 2: No significant emissions above 18GHz



Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210		

**Run # 5b: , EUT on Channel #157 5785MHz - 802.11n20, Chain A+B**

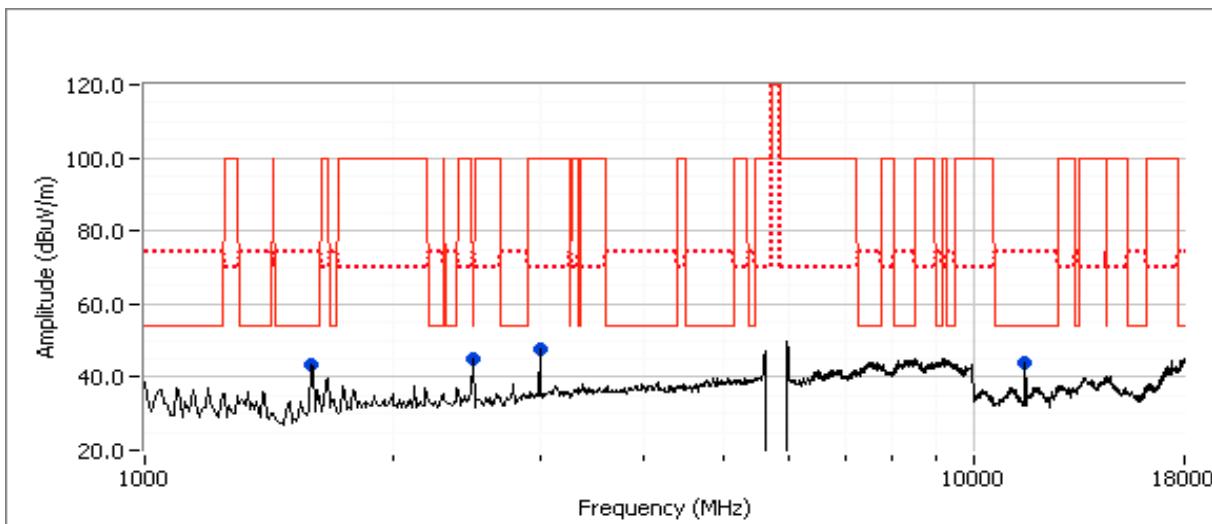
Chain	Power Settings								
	Target (dBm)				Measured (dBm)				Software Setting
	A	B	C	Total	A	B	C	Total	
	16.5	16.5	19.5	16.6	16.7	19.7		34.0/33.0	

**Spurious Radiated Emissions:**

Frequency	Level	Pol	15.209/15.247	Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters
11569.930	40.8	V	54.0	-13.2	AVG	32	1.6
11570.230	53.0	V	74.0	-21.0	PK	32	1.6
2490.040	34.1	H	54.0	-19.9	AVG	218	1.0
2491.340	55.2	H	74.0	-18.8	PK	218	1.0
1595.840	37.3	V	54.0	-16.7	AVG	199	1.0
1597.810	51.6	V	74.0	-22.4	PK	199	1.0
3000.070	47.8	H	70.0	-22.2	Peak	191	1.0

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit is -30dBc for peak measurements in a measurement bandwidth of 100kHz.

Note 2: No significant emissions above 18GHz



Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

**Run # 5c: , EUT on Channel #165 5825MHz - 802.11n20, Chain A+B**

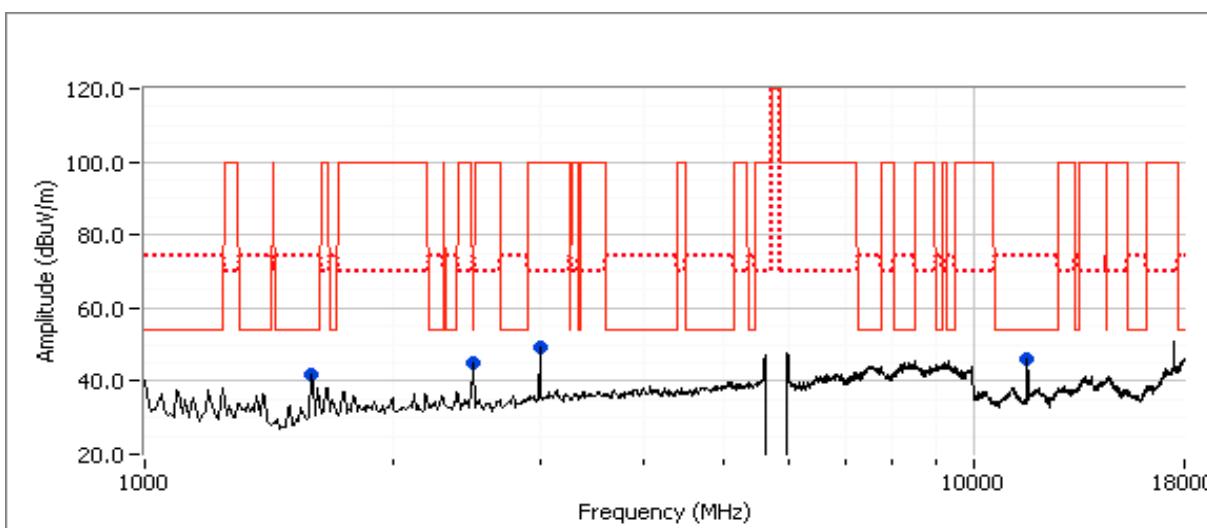
Chain	Power Settings								
	Target (dBm)				Measured (dBm)				Software Setting
	A	B	C	Total	A	B	C	Total	
	16.5	16.5	19.5	16.5	16.6	19.6	34.0	33.0	

**Spurious Radiated Emissions:**

Frequency	Level	Pol	15.209/15.247	Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters
11649.650	42.9	V	54.0	-11.1	AVG	37	1.4
11649.990	56.6	V	74.0	-17.4	PK	37	1.4
1593.780	35.5	V	54.0	-18.5	AVG	196	1.0
1594.650	50.2	V	74.0	-23.8	PK	196	1.0
2490.390	33.9	H	54.0	-20.1	AVG	218	1.0
2497.440	55.4	H	74.0	-18.6	PK	218	1.0
2998.330	49.4	H	70.0	-20.6	Peak	185	1.0

Note 1: For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit is -30dBc for peak measurements in a measurement bandwidth of 100kHz.

Note 2: No significant emissions above 18GHz



Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

**Run # 6, Radiated Spurious Emissions, Receiver, Chain A**

Date of Test: 06/15/2011

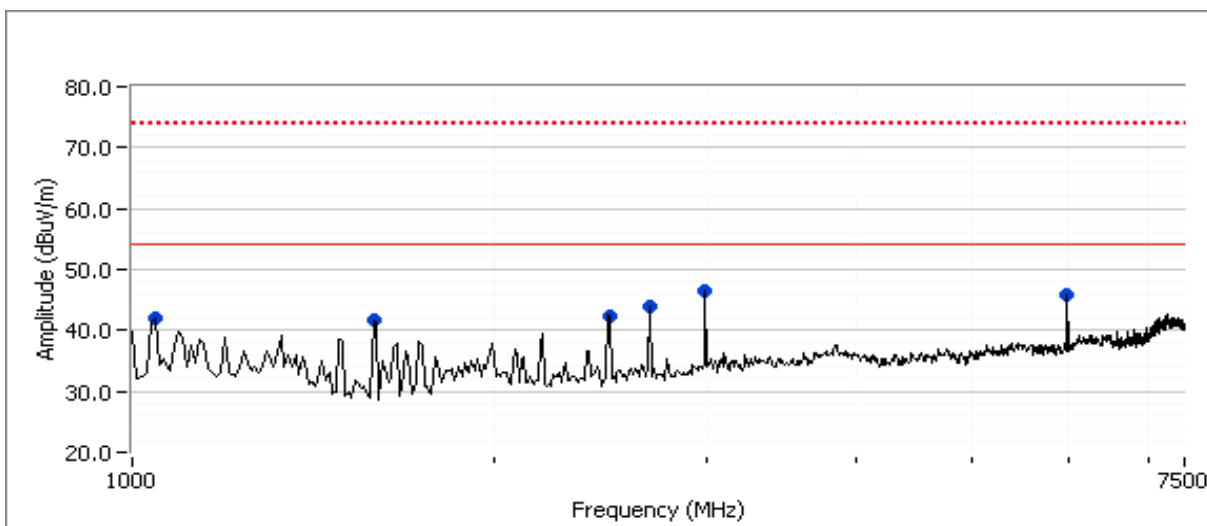
Test Location: CH#3

Test Engineer: Suresh Kondapalli

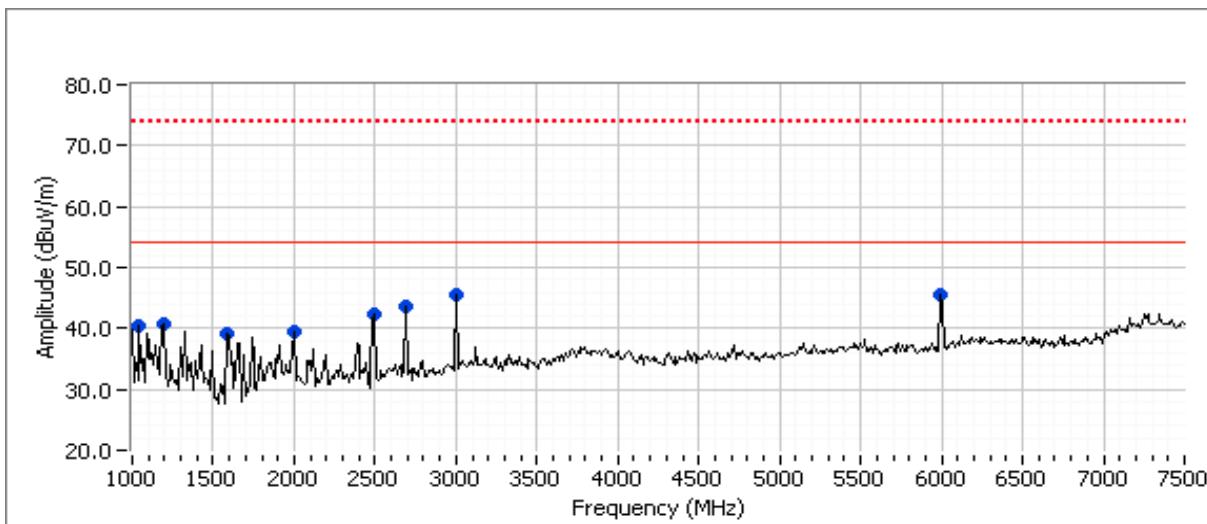
Config Change: None

**Run # 6a, EUT on Channel #6 2437MHz - Receiver, Chain A**
**Spurious Radiated Emissions, 1-7.5 GHz:**

Frequency	Level	Pol	RSS GEN		Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
3000.380	46.8	V	54.0	-7.2	AVG	196	1.1	RB 1 MHz;VB 10 Hz;Pk
6000.760	45.7	V	54.0	-8.3	AVG	157	1.0	RB 1 MHz;VB 10 Hz;Pk
1596.770	36.9	V	54.0	-17.1	AVG	189	1.8	RB 1 MHz;VB 10 Hz;Pk
1047.240	35.2	H	54.0	-18.8	AVG	114	1.0	RB 1 MHz;VB 10 Hz;Pk
6000.700	52.7	V	74.0	-21.3	PK	157	1.0	RB 1 MHz;VB 3 MHz;Pk
3000.230	52.4	V	74.0	-21.6	PK	196	1.1	RB 1 MHz;VB 3 MHz;Pk
2490.170	30.7	V	54.0	-23.3	AVG	152	1.0	RB 1 MHz;VB 10 Hz;Pk
2700.030	30.1	V	54.0	-23.9	AVG	10	2.3	RB 1 MHz;VB 10 Hz;Pk
1598.720	49.6	V	74.0	-24.4	PK	189	1.8	RB 1 MHz;VB 3 MHz;Pk
2498.170	48.2	V	74.0	-25.8	PK	152	1.0	RB 1 MHz;VB 3 MHz;Pk
1046.080	47.5	H	74.0	-26.5	PK	114	1.0	RB 1 MHz;VB 3 MHz;Pk
2701.400	41.5	V	74.0	-32.5	PK	10	2.3	RB 1 MHz;VB 3 MHz;Pk



Client:	Intel Corporation					Job Number:	J83582					
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole					T-Log Number:	T83587					
						Account Manager:	Christine Krebil					
Contact:	Steven Hackett											
Standard:	FCC 15.247 / FCC 15 E / RSS 210					Class:	N/A					
<b>Run # 6b, EUT on Channel #6 2437MHz - Receiver, Chain B</b>												
<b>Spurious Radiated Emissions, 1-7.5 GHz:</b>												
Frequency	Level	Pol	RSS GEN		Detector	Azimuth	Height	Comments				
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters					
<b>3000.340</b>	<b>47.2</b>	V	54.0	<b>-6.8</b>	AVG	197	1.4	RB 1 MHz;VB 10 Hz;Pk				
6000.800	46.3	V	54.0	-7.7	AVG	157	1.0	RB 1 MHz;VB 10 Hz;Pk				
2700.100	44.8	V	54.0	-9.2	AVG	25	2.4	RB 1 MHz;VB 10 Hz;Pk				
1596.900	36.8	V	54.0	-17.2	AVG	195	1.8	RB 1 MHz;VB 10 Hz;Pk				
1047.870	35.8	H	54.0	-18.2	AVG	110	1.1	RB 1 MHz;VB 10 Hz;Pk				
1196.270	35.3	V	54.0	-18.7	AVG	262	1.0	RB 1 MHz;VB 10 Hz;Pk				
1997.400	34.7	V	54.0	-19.3	AVG	0	1.1	RB 1 MHz;VB 10 Hz;Pk				
6000.470	52.0	V	74.0	-22.0	PK	157	1.0	RB 1 MHz;VB 3 MHz;Pk				
3000.100	51.9	V	74.0	-22.1	PK	197	1.4	RB 1 MHz;VB 3 MHz;Pk				
1598.370	48.9	V	74.0	-25.1	PK	195	1.8	RB 1 MHz;VB 3 MHz;Pk				
1992.870	48.9	V	74.0	-25.1	PK	0	1.1	RB 1 MHz;VB 3 MHz;Pk				
2483.030	28.5	V	54.0	-25.5	AVG	156	2.5	RB 1 MHz;VB 10 Hz;Pk				
1198.830	48.1	V	74.0	-25.9	PK	262	1.0	RB 1 MHz;VB 3 MHz;Pk				
2700.130	47.4	V	74.0	-26.6	PK	25	2.4	RB 1 MHz;VB 3 MHz;Pk				
1045.770	47.1	H	74.0	-26.9	PK	110	1.1	RB 1 MHz;VB 3 MHz;Pk				
2481.830	39.7	V	74.0	-34.3	PK	156	2.5	RB 1 MHz;VB 3 MHz;Pk				



Client:	Intel Corporation	Job Number:	J83582
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205) with WNC 81XCAA15.G03 Dipole	T-Log Number:	T83587
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210	Class:	N/A

Run # 6c: , EUT on Channel #157 5785MHz - Receiver, Chain A and Chain B

**Spurious Radiated Emissions, 1-18GHz:**

Frequency	Level	Pol	RSS GEN		Detector	Azimuth	Height	Comments
MHz	dB $\mu$ V/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
3000.300	46.4	V	54.0	-7.6	AVG	196	1.5	RB 1 MHz;VB 10 Hz;Pk
6000.830	43.6	V	54.0	-10.4	AVG	218	1.0	RB 1 MHz;VB 10 Hz;Pk
1195.800	35.4	V	54.0	-18.6	AVG	263	1.0	RB 1 MHz;VB 10 Hz;Pk
1047.450	34.1	H	54.0	-19.9	AVG	150	1.0	RB 1 MHz;VB 10 Hz;Pk
2490.370	33.4	H	54.0	-20.6	AVG	131	1.1	RB 1 MHz;VB 10 Hz;Pk
2700.130	32.5	H	54.0	-21.5	AVG	88	2.5	RB 1 MHz;VB 10 Hz;Pk
2499.630	52.2	H	74.0	-21.8	PK	131	1.1	RB 1 MHz;VB 3 MHz;Pk
3000.070	51.5	V	74.0	-22.5	PK	196	1.5	RB 1 MHz;VB 3 MHz;Pk
6000.430	48.5	V	74.0	-25.5	PK	218	1.0	RB 1 MHz;VB 3 MHz;Pk
1194.970	47.7	V	74.0	-26.3	PK	263	1.0	RB 1 MHz;VB 3 MHz;Pk
1049.950	45.3	H	74.0	-28.7	PK	150	1.0	RB 1 MHz;VB 3 MHz;Pk
2700.430	41.2	H	74.0	-32.8	PK	88	2.5	RB 1 MHz;VB 3 MHz;Pk

