

EMC Test Report Application for Grant of Equipment Authorization pursuant to Industry Canada RSS-Gen Issue 2 / RSS 210 Issue 7 FCC Part 15, Subpart E

Model: Intel® Centrino® Advanced-N 6205

IC CERTIFICATION #: 1000M-622ANH

1000M-62205ANHU

FCC ID: PD962205ANH

PD962205ANHU

APPLICANT: **Intel Corporation**

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TEST SITE(S): Elliott Laboratories

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IC SITE REGISTRATION #: 2845B-3; 2845B-4, 2845B-5

> REPORT DATE: August 31, 2010

FINAL TEST DATES: August 4, 5, 9, 10, 11, 13, 17, 18, and 20, 2010

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Testing Cert #2016.01

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Test Report Report Date: August 31, 2010

REVISION HISTORY

Rev#	Date	Comments	Modified By
-	08-31-2010	First release	

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SCOPE

An electromagnetic emissions test has been performed on the Intel Corporation model Intel® Centrino® Advanced-N 6205, pursuant to the following rules:

Industry Canada RSS-Gen Issue 2

RSS 210 Issue 7 "Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment"

FCC Part 15, Subpart E requirements for UNII Devices (using FCC DA 02-2138, August 30, 2002)

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 UNII test procedure 2002-08 DA-02-2138, August 2002

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

Final system data was gathered in a mode that tended to maximize emissions by varying orientation of EUT, orientation of power and I/O cabling, antenna search height, and antenna polarization.

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.

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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 model Intel® Centrino® Advanced-N 6205 complied with the requirements of the following regulations:

RSS 210 Issue 7 "Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment" FCC Part 15, Subpart E requirements for UNII Devices

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 model Intel® Centrino® Advanced-N 6205 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.

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TEST RESULTS SUMMARY

UNII/LELAN DEVICES

Operation in the 5.15 – 5.25 GHz Band

FCC Rule Part	RSS Rule Part	Description	Measured Value / Comments	Limit / Requirement	Result
15.407(e)		Indoor operation only	Refer to user's manual	N/A	Complies
15.407(a) (1)		26dB Bandwidth	Limits output power if < 20MHz		N/A
15.407 (a) (1)	A9.2(1)	Output Power	802.11a: 0.032 W n20: 0.028 W n40: 0.030 W	0.050 W (17dBm)	Complies
15.407 (a) (1)	-	Power Spectral	2.3 dBm/MHz	SISO 4.0dBm/MHz	Complies
_	A9.5 (2)	Density	(802.11a mode)	MIMO 3.3dBm/MHz	Complies

Operation in the 5.25 – 5.35 GHz Band

FCC Rule Part	RSS Rule Part	Description	Measured Value / Comments	Limit / Requirement	Result (margin)
15.407(a) (2)		26dB Bandwidth	Limits output power if	< 20MHz	N/A
15.407(a) (2)	A9.2(2)	Output Power	802.11a: 0.028 W n20: 0.028 W n40: 0.029 W	17dBm (50mW)	Complies
15.407(a) (2))	1	Power Spectral Density	1.8 dBm/MHz (802.11a and n20	SISO 11.0dBm/MHz MIMO 10.7dBm/MHz	Complies
-	A9.2(2) / A9.5 (2)	Power Spectral Density		11 dBm / MHz	Complies

Operation in the 5.47 – 5.725 GHz Band

FCC Rule Part	RSS Rule Part	Description	Measured Value / Comments	Limit / Requirement	Result (margin)
15.407(a) (2)		26dB Bandwidth	Limits output power if < 20MHz		N/A
15.407(a) (2)	A9.2(2)	Output Power	802.11a: 0.033 W n20: 0.032 W n40: 0.034 W	24 dBm / 250mW (eirp < 30dBm)	Complies
15.407(a) (2))		Power Spectral Density	2.5 dBm/MHz	SISO 11.0dBm/MHz MIMO 9.2dBm/MHz	Complies
	A9.2(2) / A9.5 (2)	Power Spectral Density	(802.11a mode)	11.0 dBm / MHz	Complies
KDB 443999	A9	Non-operation in 5600 – 5650 MHz sub band	5600 – 5650 MHz MHz band (client devices will only operate		Complies

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Requirements for all U-NII/LELAN bands

Requirements	<u>for all U-NII/L</u>	ELAN bands			
FCC Rule Part	RSS Rule Part	Description	Measured Value / Comments	Limit / Requirement	Result (Margin)
15.407	A9.5a	Modulation	Digital Modulation is used (OFDM/QAM)	Digital modulation is required	Complies
15.407(b) (5) / 15.209	A9.3	Spurious Emissions below 1GHz	34.9dBμV/m @ 199.83MH	Refer to page 22	Complies (-8.6dB)
15.407(b) (5) / 15.209	A9.3	Spurious Emissions above 1GHz	52.9dBμV/m @ 5149.5MHz	Refer to page 22	Complies (-1.1dB)
15.407(a)(6)	-	Peak Excursion Ratio	12.1dB	< 13dB	Complies (-0.9dB)
	A9.5 (3)	Channel Selection	Spurious emissions tested at outermost channels in each band	Device was tested on the top, bottom	Complies
15			Measurements on three channels in each band	and center channels in each band	Complies
15.407 (c)	A9.5(4)	Operation in the absence of information to transmit	Operation is discontinued in the absence of information (Operational Description page 9)	Shall automatically discontinue operation in the absence of information to transmit	Complies
15.407 (g)	A9.5 (5)	Frequency Stability	Frequency stability is better than 20ppm (Operational Description page 9)	Signal shall remain in-band	Complies
15.407 (h1)	A9.4	Transmit Power Control	TPC is not required as the device operates at below 500mW eirp		
15.407 (h2)	A9.4	Dynamic frequency Selection (device without radar detection)	Refer to separate test report, reference R80390		
	A9.9g	User Manual information	Refer to page 19 of the user manual	Warning regarding radar interference	Complies
15.203	-	RF Connector	Non standard and typically integral to host system	Unique or integral	Complies
15.109	RSS GEN 7.2.3 Table 1	Receiver spurious emissions	34.9dBμV/m @ 199.83MHz	Refer to page 21	Complies (-8.6dB)
15.207	RSS GEN Table 2	AC Conducted Emissions	33.2dBμV @ 13.426MHz	Refer to page 20	Complies (-16.8dB)
15.247 (b) (5) 15.407 (f)	RSS 102	RF Exposure Requirements	Refer to MPE calculations, RSS 102 declaration and User Manual (page 8).	Refer to OET 65, FCC Part 1 and RSS 102	Complies
-	RSP 100 RSS GEN 7.1.5	User Manual	User Manual (page 11).	Statement required regarding non-interference	Complies
-	RSP 100 RSS GEN 7.1.5	User Manual	Antenna is intended to be integrated into the host system.	Statement for products with detachable antenna	Complies
-	RSP 100 RSS GEN 4.4.1	99% Bandwidth	802.11a: 18 MHz n 20MHz: 18.8 MHz n 40MHz: 37.1 MHz	Information only	N/A

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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)	dBμV/m	25 to 1000 MHz 1000 to 40000 MHz	± 3.6 dB ± 6.0 dB
Conducted Emissions (AC Power)	dΒμV	0.15 to 30 MHz	± 2.4 dB

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EQUIPMENT UNDER TEST (EUT) DETAILS GENERAL

The Intel Corporation model Intel® Centrino® Advanced-N 6205 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 is being certified with both full modular approval and limited modular approval. The two versions are electrically identical using the same hardware. The full modular version is intended for factory installation only by the oem (FCC ID:PD962205ANH; IC:1000M-62205ANH). 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). All versions are approved under Intel model 62205ANHWW with the exception of the limited modular approval for Canada which is approved as model 62205ANHU (see table below).

The samples were received on August 2, 2010 and tested on August 4, 5, 9, 10, 11, 13, 17, 18, and 20, 2010. The first sample was tested from August 6 through to August 9, 2010. The second sample was used for all subsequent tests due to the rf connector on the first sample breaking. The EUT consisted of the following component(s):

Manufacturer	Model	Description	MAC address	FCC ID / IC UPN
Intel	62205ANHMW	PCIe Half Mini Card 802.11a/b/g/n	Sample #1: 001500633B2C	PD962205ANH PD962205ANHU 1000M-622ANH
Corporation	62205ANHU	wireless network adapter	Sample #2: 001500633B14	1000M- 62205ANHU

OTHER EUT DETAILS

The EUT antenna system consists of two PIFA antennas manufactured by the Shanghai Universe Communication Electron Co., Ltd,

The antenna connects to the EUT via a non-standard antenna connector, thereby meeting the requirements of FCC 15.203. Further the antenna connectors are typically located inside the host PC without access to the end user. Where the end user can install the module the systems are protected by a BiOS Lock mechanism to ensure the card is only used with the approved antennas in the approved host systems.

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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 local support equipment for emissions testing:

Company	Model	Description	Serial Number	FCC ID
Intel	-	test fixture	-	-
Dell	prototype	Laptop	-	-

INTERFACE PORTS

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

Port		Cable(s)		
From	То	Description	Shielded/Unshielded	Length(m)
Fixture PCIe	Laptop PCIe	Ribbon	Shielded	1
Fixture USB	Laptop USB	-	Shielded	2
Fixture DC Power	DC Power Supply	-	Unshielded	1

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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 transmit at a specified output power or continuously receive on the channel specified in the test data. For transmit mode measurements the system was configured to operate in each of the available operating modes – 802.11b, 802.11g, 802.11a, 802.11n (20 MHz channel bandwidth) and 802.11n (40MHz channel bandwidth).

Legacy modes (SISO-only) were evaluated on each chain individually. The 802.11n modes were evaluated operating on each chain separately (SISO) and on both chains simultaneously (MIMO). Spurious measurements, other than band-edge measurements, were only performed on 802.11n modes with both chains transmitting simultaneously. For those tests the output power per chain was set to the higher single-chain power level to cover both SISO and MIMO operation.

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 – refer to test data for actual measurements).

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

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

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.

CONDUCTED EMISSIONS CONSIDERATIONS

Conducted emissions testing is performed in conformance with ANSI C63.4:2003. Measurements are made with the EUT connected to the public power network through a nominal, standardized RF impedance, which is provided by a line impedance stabilization network, known as a LISN. A LISN is inserted in series with each current-carrying conductor in the EUT power cord.

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.

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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.

LINE IMPEDANCE STABILIZATION NETWORK (LISN)

Line conducted measurements utilize a fifty microhenry Line Impedance Stabilization Network as the monitoring point. The LISN used also contains a 250 uH CISPR adapter. This network provides for calibrated radio frequency noise measurements by the design of the internal low pass and high pass filters on the EUT and measurement ports, respectively.

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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.

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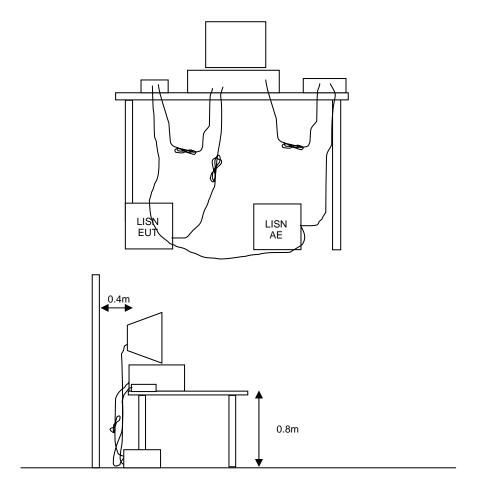
TEST PROCEDURES

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.

CONDUCTED EMISSIONS

Conducted emissions are measured at the plug end of the power cord supplied with the EUT. Excess power cord length is wrapped in a bundle between 30 and 40 centimeters in length near the center of the cord. Preliminary measurements are made to determine the highest amplitude emission relative to the specification limit for all the modes of operation. Placement of system components and varying of cable positions are performed in each mode. A final peak mode scan is then performed in the position and mode for which the highest emission was noted on all current carrying conductors of the power cord.



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RADIATED EMISSIONS

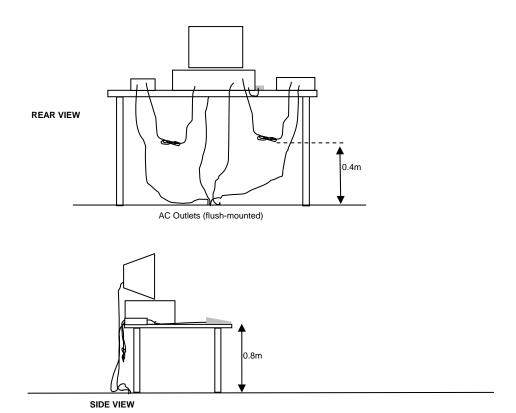
A preliminary scan of the radiated emissions is performed in which all significant EUT frequencies are identified with the system in a nominal configuration. At least two scans are performed, one scan for each antenna polarization (horizontal and vertical; loop parallel and perpendicular to the EUT). 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.

A speaker is provided in the receiver to aid in discriminating between EUT and ambient emissions. Other methods used during the preliminary scan for EUT emissions involve scanning with near field magnetic loops, monitoring I/O cables with RF current clamps, and cycling power to 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.

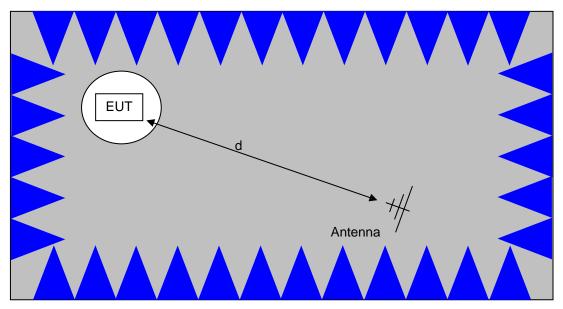
When testing above 18 GHz, the receive antenna is located at 1meter from the EUT and the antenna height is restricted to a maximum of 2.5 meters.

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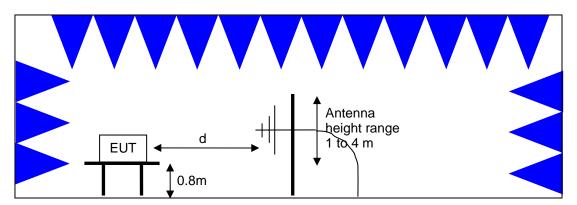
Typical Test Configuration for Radiated Field Strength Measurements

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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.

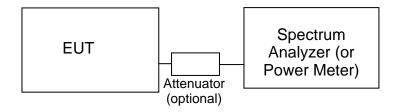


<u>Test Configuration for Radiated Field Strength Measurements</u> Semi-Anechoic Chamber, Plan and Side Views

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CONDUCTED EMISSIONS FROM ANTENNA PORT

Direct measurements of power, bandwidth and power spectral density are performed, where possible, with the antenna port of the EUT connected to either the power meter or spectrum analyzer via a suitable attenuator and/or filter. These are used to ensure that the front end of the measurement instrument is not overloaded by the fundamental transmission.



Test Configuration for Antenna Port Measurements

Measurement bandwidths (video and resolution) are set in accordance with the relevant standards and Elliott's test procedures for the type of radio being tested. When power measurements are made using a resolution bandwidth less than the signal bandwidth the power is calculated by summing the power across the signal bandwidth using either the analyzer channel power function or by capturing the trace data and calculating the power using software. In both cases the summed power is corrected to account for the equivalent noise bandwidth (ENBW) of the resolution bandwidth used.

If power averaging is used (typically for certain digital modulation techniques), the EUT is configured to transmit continuously. Power averaging is performed using either the built-in function of the analyzer or, if the analyzer does not feature power averaging, using external software. In both cases the average power is calculated over a number of sweeps (typically 100). When the EUT cannot be configured to continuously transmit then either the analyzer is configured to perform a gated sweep to ensure that the power is averaged over periods that the device is transmitting or power averaging is disabled and a max-hold feature is used.

If a power meter is used to make output power measurements the sensor head type (peak or average) is stated in the test data table.

BANDWIDTH MEASUREMENTS

The 6dB, 20dB and/or 26dB signal bandwidth is measured in using the bandwidths recommended by ANSI C63.4. When required, the 99% bandwidth is measured using the methods detailed in RSS GEN.

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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:

CONDUCTED EMISSIONS SPECIFICATION LIMITS: FCC 15.207; FCC 15.107(a), RSS GEN

The table below shows the limits for the emissions on the AC power line from an intentional radiator and a receiver.

Frequency (MHz)	Average Limit (dBuV)	Quasi Peak Limit (dBuV)
0.150 to 0.500	Linear decrease on logarithmic frequency axis between 56.0 and 46.0	Linear decrease on logarithmic frequency axis between 66.0 and 56.0
0.500 to 5.000 46.0		56.0
5.000 to 30.000	50.0	60.0

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

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GENERAL TRANSMITTER RADIATED EMISSIONS SPECIFICATION LIMITS

The table below shows the limits for the spurious emissions from transmitters that fall in restricted bands¹ (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 _{KHz} @ 300m	67.6-20*log ₁₀ (F _{KHz}) @ 300m
0.490-1.705	24000/F _{KHz} @ 30m	87.6-20*log ₁₀ (F _{KHz}) @ 30m
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

FCC 15.407 (a) OUTPUT POWER LIMITS

The table below shows the limits for output power and output power density. Where the signal bandwidth is less than 20 MHz the maximum output power is reduced to the power spectral density limit plus 10 times the log of the bandwidth (in MHz).

Operating Frequency (MHz)	Output Power	Power Spectral Density
5150 - 5250	50mW (17 dBm)	4 dBm/MHz
5250 - 5350	250 mW (24 dBm)	11 dBm/MHz
5725 - 5825	1 Watts (30 dBm)	17 dBm/MHz

For system using antennas with gains exceeding 6dBi, the output power and power spectral density limits are reduced by 1dB for every dB the antenna gain exceeds 6dBi. Fixed point-to-point applications using the 5725 – 5825 MHz band may use antennas with gains of up to 23dBi without this limitation. If the gain exceeds 23dBi then the output power limit of 1 Watt is reduced by 1dB for every dB the gain exceeds 23dBi.

The peak excursion envelope is limited to 13dB.

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

OUTPUT POWER LIMITS -LELAN DEVICES

The table below shows the limits for output power and output power density defined by RSS 210. Where the signal bandwidth is less than 20 MHz the maximum output power is reduced to the power spectral density limit plus 10 times the log of the bandwidth (in MHz).

Operating Frequency	Output Power	Power Spectral
(MHz)		Density
5150 - 5250	200mW (23 dBm) eirp	10 dBm/MHz eirp
5250 - 5350	250 mW (24 dBm) ² 1W (30dBm) eirp	11 dBm/MHz
5470 – 5725	250 mW (24 dBm) ³ 1W (30dBm) eirp	11 dBm/MHz
5725 – 5825	1 Watts (30 dBm) 4W eirp	17 dBm/MHz

In addition, the power spectral density limit shall be reduced by 1dB for every dB the highest power spectral density exceeds the "average" power spectral density) by more than 3dB. The "average" power spectral density is determined by dividing the output power by $10\log(EBW)$ where EBW is the 99% power bandwidth.

Fixed point-to-point applications using the 5725 – 5825 MHz band may use antennas with gains of up to 23dBi without this limitation. If the gain exceeds 23dBi then the output power limit of 1 Watt is reduced by 1dB for every dB the gain exceeds 23dBi.

SPURIOUS EMISSIONS LIMITS -UNII and LELAN DEVICES

The spurious emissions limits for signals below 1GHz are the FCC/RSS-GEN general limits. For emissions above 1GHz, signals in restricted bands are subject to the FCC/RSS GEN general limits. All other signals have a limit of –27dBm/MHz, which is a field strength of 68.3dBuV/m/MHz at a distance of 3m. This is an average limit so the peak value of the emission may not exceed –7dBm/MHz (68.3dBuV/m/MHz at a distance of 3m). For devices operating in the 5725-5850Mhz bands under the LELAN/UNII rules, the limit within 10Mhz of the allocated band is increased to –17dBm/MHz.

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² If EIRP exceeds 500mW the device must employ TPC

³ If EIRP exceeds 500mW the device must employ TPC

SAMPLE CALCULATIONS - CONDUCTED EMISSIONS

Receiver readings are compared directly to the conducted emissions specification limit (decibel form) as follows:

$$R_r - S = M$$

where:

 R_r = Receiver Reading in dBuV

S = Specification Limit in dBuV

M = Margin to Specification in +/- dB

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:

$$F_d = 20*LOG_{10} (D_m/D_s)$$

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:

$$F_d = 40*LOG_{10} (D_m/D_s)$$

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.

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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

SAMPLE CALCULATIONS - FIELD STRENGTH TO EIRP CONVERSION

Where the radiated electric field strength is expressed in terms of the equivalent isotropic radiated power (eirp), or where a field strength measurement of output power is made in lieu of a direct measurement, the following formula is used to convert between eirp and field strength at a distance of d (meters) from the equipment under test:

$$E = \frac{1000000 \sqrt{30 P}}{d}$$
 microvolts per meter

where P is the eirp (Watts)

For a measurement at 3m the conversion from a logarithmic value for field strength (dBuV/m) to an eirp power (dBm) is -95.3dB.

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Appendix A Test Equipment Calibration Data

Radiated Emissions,	1,000 - 40,000 MHz			
Manufacturer Rohde & Schwarz EMCO	<u>Description</u> Power Meter, Single Channel Antenna, Horn, 1-18 GHz	Model NRVS 3115	Asset # 1290 487	<u>Cal Due</u> 10/22/2010 7/6/2012
Hewlett Packard	SpecAn 9 kHz - 40 GHz, FT (SA40) Blue	8564E (84125C)	1393	4/14/2011
Rohde & Schwarz	Power Sensor 100 uW - 10 Watts	NRV-Z53	1555	2/5/2011
Rohde & Schwarz	Attenuator, 20 dB, 50 ohm, 10W, DC-18 GHz	20dB, 10W, Type N	1556	2/5/2011
Micro-Tronics	Band Reject Filter, 5150-5350 MHz	BRC50703-02	1729	9/25/2010
Micro-Tronics	Band Reject Filter, 5470-5725 MHz	BRC50704-02	1730	9/25/2010
Hewlett Packard	Head (Inc W1-W4, 1946, 1947) Purple	84125C	1772	5/6/2011
A.H. Systems Micro-Tronics	Blue System Horn, 18-40GHz Band Reject Filter, 5150-5350	SAS-574, p/n: 2581 BRC50703-02	2159 2239	3/18/2011 7/2/2011
	MHz			
Micro-Tronics	Band Reject Filter, 5470-5725 MHz	BRC50704-02	2240	7/2/2011
	IVII IZ			
Radiated Emissions,	30 - 1,000 MHz and Conducted Em	nissions, 13-Aug-10		
Radiated Emissions, <u>Manufacturer</u> Solar Electronics		Model 8028-50-TS-24-BNC	Asset # 904	<u>Cal Due</u> 3/2/2011
<u>Manufacturer</u>	30 - 1,000 MHz and Conducted Em <u>Description</u>	Model		
Manufacturer Solar Electronics Rohde & Schwarz Com-Power Corp. Sunol Sciences Rohde & Schwarz Fischer Custom Comm Radio Antenna Port (30 - 1,000 MHz and Conducted Em Description LISN Pulse Limiter Preamplifier, 30-1000 MHz Biconilog, 30-3000 MHz EMI Test Receiver, 20 Hz-7 GHz LISN, 25A, 150kHz to 30MHz, 25 Amp, Power and Spurious Emissions), 2	Model 8028-50-TS-24-BNC support ESH3 Z2 PA-103 JB3 ESIB7 FCC-LISN-50-25-2- 09	904 1401 1632 1657 1756 2001	3/2/2011 4/20/2011 4/23/2011 5/28/2012 3/16/2011 10/21/2010
Manufacturer Solar Electronics Rohde & Schwarz Com-Power Corp. Sunol Sciences Rohde & Schwarz Fischer Custom Comm	30 - 1,000 MHz and Conducted Em <u>Description</u> LISN Pulse Limiter Preamplifier, 30-1000 MHz Biconilog, 30-3000 MHz EMI Test Receiver, 20 Hz-7 GHz LISN, 25A, 150kHz to 30MHz, 25 Amp,	Model 8028-50-TS-24-BNC support ESH3 Z2 PA-103 JB3 ESIB7 FCC-LISN-50-25-2- 09	904 1401 1632 1657 1756 2001	3/2/2011 4/20/2011 4/23/2011 5/28/2012 3/16/2011
Manufacturer Solar Electronics Rohde & Schwarz Com-Power Corp. Sunol Sciences Rohde & Schwarz Fischer Custom Comm Radio Antenna Port (Manufacturer Rohde & Schwarz	30 - 1,000 MHz and Conducted Em Description LISN Pulse Limiter Preamplifier, 30-1000 MHz Biconilog, 30-3000 MHz EMI Test Receiver, 20 Hz-7 GHz LISN, 25A, 150kHz to 30MHz, 25 Amp, Power and Spurious Emissions), 1 Description Power Meter, Single Channel SpecAn 9 kHz - 40 GHz, FT	Model 8028-50-TS-24-BNC support ESH3 Z2 PA-103 JB3 ESIB7 FCC-LISN-50-25-2- 09 16-Aug-10 to 20-Aug-1 Model NRVS	904 1401 1632 1657 1756 2001 0 Asset # 1290	3/2/2011 4/20/2011 4/23/2011 5/28/2012 3/16/2011 10/21/2010 Cal Due 10/22/2010

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Appendix B Test Data

T80214 167 Pages

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Ellio Ellio	tt Ecompany	El	MC Test Data
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		-
Emissions Standard(s):	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	В
Immunity Standard(s):	-	Environment:	Radio

EMC Test Data

For The

Intel Corporation

Model

62205ANHMW (Intel® Centrino® Advanced-N 6205)

Date of Last Test: 8/21/2010



EMC Test Data

	All 2023 Company		
Client:	Intel Corporation	Job Number:	J80050
Model: 62205ANHN	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTINIVV (IIILEI® CEITITIO® AUVAITCEU-IV 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	В

In normal operating modes the card uses power settings stored on EEPROM to set the output power. For a given nominal output power the actual transmit power is reduced as the data rate increases, therefore testing was performed at the lowest data rate in each mode as this data rate to determine compliance with the requirements at the highest power setting.

The following power measurements were made using an average power meter and the with the device configured in a continuous transmit mode on Chain A at the various data rates in each mode to verify this:

Mode	Data Rate	Power
	1	13.7
802.11b	2	13.7
002.110	5.5	13.4
	11	13.4
	6	15.1
	9	14.8
	12	14.7
802.11g	18	14.7
(802.11a)	24	14.5
	36	14.6
	48	13.3
	54	11.2
	6.5	14.9
	13	14.8
	19.5	14.5
802.11n	26	14.4
20MHz	39	14.2
	52	13.4
	58.5	10.7
	65	9.2
	13.5	14.9
	27	14.8
	40.5	14.8
802.11n	54	14.7
40MHz	81	14.5
	108	13.5
	121.5	10.8
	135	9.2

	Elliott An (VZAS company	EM	C Test Data
Client:	Intel Corporation	Job Number:	J80050
Model	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
wouei.	02203ANTIWW (III.el® Ceritiiio® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class	В

Conducted Emissions - Wireless Module (DTS/NII/RSS 210)

(Elliott Laboratories Fremont Facility, Semi-Anechoic Chamber)

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.

Date of Test: 8/13/2010 Config. Used: Module
Test Engineer: Mark Hill Config Change: None
Test Location: FT #3 Host Unit Voltage 120V/60Hz

General Test Configuration

The test fixture was located on a wooden table inside the semi-anechoic chamber, 40 cm from a vertical coupling plane and 80cm from the LISN which was used to connect to the AC input of the DC power supply connected to the test fixture. A second LISN was used for all remaining support equipment.

Ambient Conditions: Temperature: 22 °C

Rel. Humidity: 37 %

Summary of Results

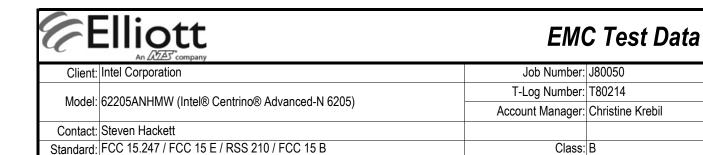
Run #	Test Performed	Limit	Result	Margin
1	CE, AC Power,120V/60Hz	FCC 15.207/RSS GEN	Pass	33.2dBµV @ 13.426MHz (-16.8dB)

Modifications Made During Testing

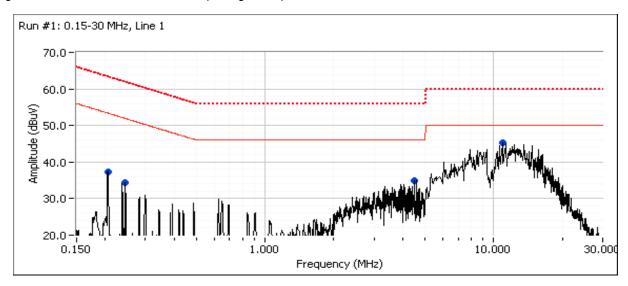
No modifications were made to the EUT during testing

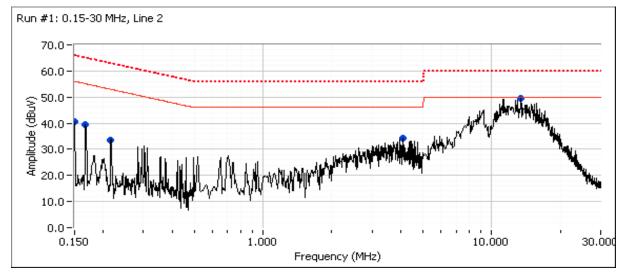
Deviations From The Standard

No deviations were made from the requirements of the standard.



Run #1: AC Power Port Conducted Emissions, 0.15 - 30MHz, 120V/60Hz Configured to TX at 16.5dBm on each chain (settings 33/31) on channel 6, HT8





	Intel Corpor	ation					Job Number:	J80050
Madal	. 60005 A NILIA	ANA /Intal® C	a materian a 🙉 🐧 als	ranged NLCOC)E)		T-Log Number:	T80214
Model	62205ANHI	vivv (intel® C	entrino® Adv	vanced-N 620	J5)		Account Manager:	Christine Krebil
	Steven Hac							
Standard	FCC 15.247	' / FCC 15 E	/ RSS 210 / I	FCC 15 B			Class:	: B
				-scan (peak 7/RSS GEN		s. average limit)	
requency MHz	Level	AC Line	Limit		Detector QP/Ave	Comments		
13.426	dBμV 49.5	Line 2	50.0	Margin -0.5	Peak			
10.909	45.2	Line 1	50.0	-4.8	Peak			
4.488	35.0	Line 1	46.0	-11.0	Peak	1		
4.088	34.3	Line 2	46.0	-11.7	Peak	1		
0.150	40.7	Line 2	56.0	-15.3	Peak	1		
0.168	39.5	Line 2	55.1	-15.6	Peak			
0.205	37.4	Line 1	53.4	-16.0	Peak			
0.245	34.4	Line 1	51.9	-17.5	Peak			
0.217	33.5	Line 2	53.0	-19.5	Peak			
	-peak and a				1	1		
requency		AC		7/RSS GEN	Detector	Comments		
MHz	dBμV	Line	Limit	Margin	QP/Ave	1110 (0.40.)		
13.426 13.426	33.2	Line 2	50.0	-16.8	AVG	AVG (0.10s)		
1.3 4/h	42.6 39.1	Line 2	60.0 60.0	-17.4 -20.9	QP QP	QP (1.00s) QP (1.00s)		
		Line 1						
10.909		Lino 1	6010			1000000000000000000000000000000000000		
10.909 10.909	27.9	Line 1	50.0	-22.1	AVG	AVG (0.10s)		
10.909 10.909 4.488	27.9 28.7	Line 1	56.0	-27.3	QP	QP (1.00s)		
10.909 10.909 4.488 4.088	27.9 28.7 28.2	Line 1 Line 2	56.0 56.0	-27.3 -27.8	QP QP	QP (1.00s) QP (1.00s)		
10.909 10.909 4.488 4.088 0.150	27.9 28.7 28.2 36.1	Line 1 Line 2 Line 2	56.0 56.0 66.0	-27.3 -27.8 -29.9	QP QP QP	QP (1.00s) QP (1.00s) QP (1.00s)		
10.909 10.909 4.488 4.088 0.150 0.168	27.9 28.7 28.2 36.1 35.0	Line 1 Line 2 Line 2 Line 2	56.0 56.0 66.0 65.1	-27.3 -27.8 -29.9 -30.1	QP QP QP QP	QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s)		
10.909 10.909 4.488 4.088 0.150 0.168 4.488	27.9 28.7 28.2 36.1 35.0 15.7	Line 1 Line 2 Line 2 Line 2 Line 2 Line 1	56.0 56.0 66.0 65.1 46.0	-27.3 -27.8 -29.9	QP QP QP QP AVG	QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s) AVG (0.10s)		
10.909 10.909 4.488 4.088 0.150 0.168	27.9 28.7 28.2 36.1 35.0	Line 1 Line 2 Line 2 Line 2	56.0 56.0 66.0 65.1	-27.3 -27.8 -29.9 -30.1 -30.3	QP QP QP QP	QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s)		
10.909 10.909 4.488 4.088 0.150 0.168 4.488 4.088	27.9 28.7 28.2 36.1 35.0 15.7 14.7	Line 1 Line 2 Line 2 Line 2 Line 2 Line 1 Line 2	56.0 56.0 66.0 65.1 46.0 46.0	-27.3 -27.8 -29.9 -30.1 -30.3 -31.3	QP QP QP QP AVG AVG	QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s) AVG (0.10s) AVG (0.10s)		
10.909 10.909 4.488 4.088 0.150 0.168 4.488 4.088 0.205	27.9 28.7 28.2 36.1 35.0 15.7 14.7 30.4	Line 1 Line 2 Line 2 Line 2 Line 2 Line 1 Line 2 Line 1	56.0 56.0 66.0 65.1 46.0 46.0 63.4	-27.3 -27.8 -29.9 -30.1 -30.3 -31.3 -33.0	QP QP QP QP AVG AVG	QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s) AVG (0.10s) AVG (0.10s) QP (1.00s)		
10.909 10.909 4.488 4.088 0.150 0.168 4.488 4.088 0.205 0.245	27.9 28.7 28.2 36.1 35.0 15.7 14.7 30.4 28.7	Line 1 Line 2 Line 2 Line 2 Line 2 Line 1 Line 2 Line 1 Line 1	56.0 56.0 66.0 65.1 46.0 46.0 63.4 61.9	-27.3 -27.8 -29.9 -30.1 -30.3 -31.3 -33.0 -33.2	QP QP QP AVG AVG QP QP QP AVG	QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s) AVG (0.10s) AVG (0.10s) QP (1.00s) QP (1.00s)		
10.909 10.909 4.488 4.088 0.150 0.168 4.488 4.088 0.205 0.245 0.217 0.205 0.245	27.9 28.7 28.2 36.1 35.0 15.7 14.7 30.4 28.7 28.5 14.8 12.3	Line 1 Line 2 Line 2 Line 2 Line 1 Line 2 Line 1 Line 1 Line 1 Line 2	56.0 56.0 66.0 65.1 46.0 46.0 63.4 61.9 62.9 53.4 51.9	-27.3 -27.8 -29.9 -30.1 -30.3 -31.3 -33.0 -33.2 -34.4 -38.6 -39.6	QP QP QP AVG AVG QP QP QP AVG AVG	QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s) AVG (0.10s) AVG (0.10s) QP (1.00s) QP (1.00s) QP (1.00s) AVG (0.10s) QP (1.00s) AVG (0.10s)		
10.909 10.909 4.488 4.088 0.150 0.168 4.488 4.088 0.205 0.245 0.217 0.205 0.245 0.217	27.9 28.7 28.2 36.1 35.0 15.7 14.7 30.4 28.7 28.5 14.8 12.3 11.5	Line 1 Line 2 Line 2 Line 2 Line 1 Line 2 Line 1 Line 1 Line 2 Line 1 Line 2 Line 1 Line 2 Line 1 Line 2	56.0 56.0 66.0 65.1 46.0 46.0 63.4 61.9 62.9 53.4 51.9 52.9	-27.3 -27.8 -29.9 -30.1 -30.3 -31.3 -33.0 -33.2 -34.4 -38.6 -39.6 -41.4	QP QP QP AVG AVG QP QP AVG AVG AVG AVG AVG AVG	QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s) AVG (0.10s) AVG (0.10s) QP (1.00s) QP (1.00s) QP (1.00s) AVG (0.10s) AVG (0.10s) AVG (0.10s) AVG (0.10s)		
10.909 10.909 4.488 4.088 0.150 0.168 4.488 4.088 0.205 0.245 0.217 0.205 0.245	27.9 28.7 28.2 36.1 35.0 15.7 14.7 30.4 28.7 28.5 14.8 12.3	Line 1 Line 2 Line 2 Line 2 Line 1 Line 2 Line 1 Line 1 Line 1 Line 1 Line 2 Line 1 Line 1	56.0 56.0 66.0 65.1 46.0 46.0 63.4 61.9 62.9 53.4 51.9	-27.3 -27.8 -29.9 -30.1 -30.3 -31.3 -33.0 -33.2 -34.4 -38.6 -39.6	QP QP QP AVG AVG QP QP QP AVG AVG	QP (1.00s) QP (1.00s) QP (1.00s) QP (1.00s) AVG (0.10s) AVG (0.10s) QP (1.00s) QP (1.00s) QP (1.00s) AVG (0.10s) QP (1.00s) AVG (0.10s)		



EMC Test Data

Client:	Intel Corporation	Job Number:	J80050
Model	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
wodei.	02203ANTIWW (IIILei® Celllillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	В

Radiated Emissions 30-1000 MHz, Wireless Module (DTS/NII/RSS 210)

(Elliott Laboratories Fremont Facility, Semi-Anechoic Chamber)

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.

Date of Test: 8/13/2010 Config. Used: Modular Test
Test Engineer: Mark Hill Config Change: None
Test Location: FT #3 Host Unit Voltage 120V/60Hz

General Test Configuration

The EUT and any local support equipment were located on the turntable for radiated emissions testing. Any remote support equipment was located outside the semi-anechoic chamber. Any cables running to remote support equipment where routed through metal conduit and when possible passed through a ferrite clamp upon exiting the chamber.

The test distance and extrapolation factor (if applicable) are detailed under each run description.

Note, preliminary testing indicates that the emissions were maximized by orientation of the EUT and elevation of the measurement antenna. Maximized testing indicated that the emissions were maximized by orientation of the EUT, elevation of the measurement antenna, and manipulation of the EUT's interface cables.

Ambient Conditions:

Temperature: 22 °C Rel. Humidity: 37 %

Summary of Results

Run #	Test Performed	Limit	Result	Margin
1	Radiated Emissions	FCC 15.209 / RSS 210	Pass	34.9dBµV/m @ 199.83MHz
	30 - 1000 MHz	FCC 13.209 / N33 210	F 455	(-8.6dB)

Note - preliminary measurements indicated that the radiated emissions from the combination of test fixture and EUT were not affected by the modules operating frequency or mode (transmit versus receive mode). The system was therefore evaluated against the most stringent set of limits from FCC 15.247, FCC 15E and RSS 210 with the **device operating at max power per chain on both chains in 802.11n 20MHz mode at 2437 MHz.**

Modifications Made During Testing

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.

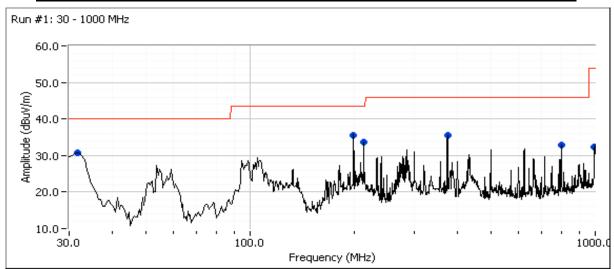


EMC Test Data

Client:	Intel Corporation	Job Number:	J80050
Modal:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
iviouei.	02203ANT INVIV (ITTER® CERTITIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	В

Run #1: Preliminary Radiated Emissions, 30 - 1000 MHz Configured to TX at 16.5dBm on each chain (settings 33/31) on channel 6, HT8

Frequency Range	Test Distance	Limit Distance	Extrapolation Factor	
30 - 1000 MHz	3	3	0.0	



Preliminary peak readings captured during pre-scan

· · · · · · · · · · · · · · · · · · ·	pount routin	.ge eapta.						
Frequency	Level	Pol	FCC 15.209	9 / RSS 210	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
199.830	35.5	Н	43.5	-8.0	Peak	232	1.5	
32.144	30.8	V	40.0	-9.2	Peak	83	1.0	
213.950	33.6	Н	43.5	-9.9	Peak	262	1.5	
374.346	35.6	Н	46.0	-10.4	Peak	283	1.0	
796.607	32.9	Н	46.0	-13.1	Peak	171	1.0	
996.867	32.3	Н	54.0	-21.7	Peak	238	1.5	

Maximized quasi-peak readings (includes manipulation of EUT interface cables)

Frequency	Level	Pol	FCC 15.209	9 / RSS 210	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
199.830	34.9	Н	43.5	-8.6	QP	251	1.5	QP (1.00s)
32.144	29.0	V	40.0	-11.0	QP	56	1.0	QP (1.00s)
374.346	33.2	Н	46.0	-12.8	QP	259	1.0	QP (1.00s)
213.950	30.1	Н	43.5	-13.4	QP	261	1.5	QP (1.00s)
796.607	31.8	Н	46.0	-14.2	QP	163	1.0	QP (1.00s)
996.867	28.3	Н	54.0	-25.7	QP	231	1.5	QP (1.00s)
		•						

	Elliott An AVAS company	EMO	C Test Data
Client:	Intel Corporation	Job Number:	J80050
Madalı	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

RSS 210 and FCC 15.E (NII) Radiated Emissions Band Edge Measurements

Summary of Results

MAC Address: 001500633B2C DRTU Tool Version 1.1.3 Driver version 13.0.0.238 Sample: 1340

Note - the target and measured power are average powers (measured with average power sensor) and are used for reference purposes

only. Power is set using " GAIN CONTROL" mode in the DRTU tool.

Run#	Mode	Channel	Target	Measured	Test Performed	Limit	Result / Margin					
		#38	Power	Power	Restricted Band Edge at	45.000	45.3dBµV/m @					
		5190MHz	11.0	11.2	5150 MHz	15.209	5150.0MHz (-8.7dB)					
		#62	11.0	11.2	Restricted Band Edge at 5350 MHz	15.209	44.4dBµV/m @					
	n 40MHz	5310MHz			Restricted Band Edge at		5350.0MHz (-9.6dB) 45.2dBµV/m @					
Run # 1	Chain A	#102	13.5	12.0	5460 MHz	15.209	5460.0MHz (-8.8dB)					
		5510MHz	13.5	13.6	Band Edge at	15 E	54.2dBµV/m @					
		"404			5470 MHz	10 L	5469.8MHz (-14.1dB)					
		#134 5670MHz	16.5	16.6	Band Edge at 5725 MHz	15 E	46.5dBµV/m @ 5725.0MHz (-21.8dB)					
		#38			Restricted Band Edge at	4-000	48.2dBµV/m @					
							5190MHz	11.0	11.3	5150 MHz	15.209	5150.0MHz (-5.8dB)
		#62	17.7	** *	11.0	11.2	Restricted Band Edge at	15.209	46.6dBµV/m @			
	40NALI-	5310MHz	ИНZ		5350 MHz		5350.0MHz (-7.4dB)					
Run # 2	n 40MHz Chain B	Chain B #102 5510MHz		ii 13.5	13.4	Restricted Band Edge at 5460 MHz	15.209	46.0dBµV/m @ 5460.0MHz (-8.0dB)				
	-					Band Edge at	45.5	53.8dBµV/m @				
					5470 MHz	15 E	5469.6MHz (-14.5dB)					
			#134	16.5	16.6	Band Edge at	15 E	43.1dBµV/m @				
		5670MHz			5725 MHz		5727.6MHz (-25.2dB)					
		#38 5190MHz	A: 10 B: 10	A: 10.0 B: 10.0	Restricted Band Edge at 5150 MHz	15.209	47.3dBµV/m @ 5149.4MHz (-6.7dB)					
		#62	A: 10	A: 10.0	Restricted Band Edge at		46.5dBµV/m @					
		5310MHz	B: 10	B: 10.1	5350 MHz	15.209	5350.0MHz (-7.5dB)					
Run #3	Run # 3 n 40MHz Chain A+B	n 40MHz				Restricted Band Edge at	15.209	49.4dBµV/m @				
Tuil # 0				A: 12.6	5460 MHz	10.203	5458.6MHz (-4.6dB)					
	5510MHz	B: 12.5	B: 12.4	Band Edge at	15 E	52.2dBµV/m @						
		#134	A: 13.5	A: 13.5	5470 MHz Band Edge at		5469.8MHz (-16.1dB) 42.3dBµV/m @					
		#134 5670MHz	B: 13.5	B: 13.8	5725 MHz	15 E	5725.5MHz (-26.0dB)					
		507 OIII 12	2. 10.0	D. 10.0			(20.002)					

E E	Ellic	ott Arcompany				ЕМО	C Test Data				
Client:	Intel Corpora	ation				Job Number:	J80050				
						T-Log Number:	T80214				
Model:	62205ANHN	/IW (Intel® C	entrino® Ad\	anced-N 620	05)	Account Manager:					
Contact:	Steven Hack	cett									
Standard:	FCC 15.247	/ FCC 15 E	/ RSS 210 / I	FCC 15 B		Class:	N/A				
Run#	Mode	Channel	Target Power	Measured Power	Test Performed	Limit	Result / Margin				
		#36 5180MHz	15.5	15.5	Restricted Band Edge at 5150 MHz	15.209	38.8dBµV/m @ 5150.0MHz (-15.2dB)				
		#64 5320MHz	16.0	15.9	Restricted Band Edge at 5350 MHz	15.209	40.4dBµV/m @ 5350.3MHz (-13.6dB)				
Run # 4	n 20MHz Chain A	#100	40.5	40.5	Restricted Band Edge at 5460 MHz	15.209	37.9dBµV/m @ 5458.1MHz (-16.1dB)				
		5500MHz	16.5	16.5	Band Edge at 5470 MHz	15 E	43.3dBµV/m @ 5468.9MHz (-25.0dB)				
		#140 5700MHz	16.5	16.4	Band Edge at 5725 MHz	15 E	47.2dBµV/m @ 5728.0MHz (-21.1dB)				
	n 20MHz Chain B					#36 5180MHz	15.5	15.6	Restricted Band Edge at 5150 MHz	15.209	45.2dBµV/m @ 5149.3MHz (-8.8dB)
			#64 5320MHz	16.0	16.0	Restricted Band Edge at 5350 MHz	15.209	39.5dBµV/m @ 5350.0MHz (-14.5dB)			
Run # 5			n 20MHz Chain R #100	10.5	10.5	Restricted Band Edge at 5460 MHz	15.209	39.8dBµV/m @ 5459.2MHz (-14.2dB)			
						5500MHz	16.5	16.4	Band Edge at 5470 MHz	15 E	44.3dBµV/m @ 5469.3MHz (-24.0dB)
			#140 5700MHz	16.5	16.4	Band Edge at 5725 MHz	15 E	43.9dBµV/m @ 5729.4MHz (-24.4dB)			
		#36 5180MHz	A: 12.5 B: 12.5	A: 12.4 B: 12.5	Restricted Band Edge at 5150 MHz	15.209	52.9dBµV/m @ 5149.5MHz (-1.1dB)				
		#64 5320MHz	A: 13.0 B: 13.0	A: 13.2 B: 13.1	Restricted Band Edge at 5350 MHz	15.209	48.6dBµV/m @ 5350.0MHz (-5.4dB)				
Run #6	n 20MHz Chain A+B				A: 13.5	A: 13.6	Restricted Band Edge at 5460 MHz	15.209	47.4dBµV/m @ 5457.6MHz (-6.6dB)		
		5500MHz	B: 13.5	B: 13.6	Band Edge at 5470 MHz	15 E	48.5dBµV/m @ 5469.1MHz (-19.8dB)				
		#140 5700MHz	A: 13.5 B: 13.5	A: 13.4 B: 13.6	Band Edge at 5725 MHz	15 E	51.8dBµV/m @ 5728.7MHz (-16.5dB)				
802.11a mo	de tested on	the chain wit			11n 20MHz mode						
		#36 5180MHz	16.0	16.2	Restricted Band Edge at 5150 MHz	15.209	48.0dBµV/m @ 5150.0MHz (-6.0dB)				
Rin#/		#64 5320MHz	16.0	15.9	Restricted Band Edge at 5350 MHz	15.209	43.1dBµV/m @ 5350.0MHz (-10.9dB)				
	802.11a Chain B	1a					Restricted Band Edge at 5460 MHz	15.209	39.9dBµV/m @ 5459.9MHz (-14.1dB)		
	CHAILIB	5500MHz	16.5	16.7	Band Edge at 5470 MHz	15 E	46.9dBµV/m @ 5470.0MHz (-21.4dB)				
		#140 5700MHz	16.5	16.5	Band Edge at 5725 MHz	15 E	46.5dBµV/m @ 5725.1MHz (-21.8dB)				



EMC Test Data

	An 2022 company		
Client:	Intel Corporation	Job Number:	J80050
Madalı	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
woder.	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Test Specific Details

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

General Test Configuration

The EUT ws installed into a test fixture such that the EUT was exposed (i.e. outside of a host PC). For radiated emissions testing the measurement antenna was located 3 meters from the EUT.

Ambient Conditions: Rel. Humidity: 25 - 50 %

> Temperature: 18 - 25 °C

Modifications Made During Testing
No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.

Marker Delta Measurements

Three sets of marker deltas are measured using the following settings: RB=VB=100kHz; RB=1MHz,VB=1MHz; RB=1MHz, VB=10Hz. Marker deltas are made conducted (analyzer connected to EUT rf port a 20dB pad) for single chain operation and radiated (at a distance of ~ 50cm) for MIMO modes.

The fundamental field strength is always measured at a 3m test distance.

EII	iott
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	711 Date Company		
Client:	Intel Corporation	Job Number:	J80050
Model: 6	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANT INVV (ITTER® CERTIFIC® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 1, Band Edge Field Strength - n 40MHz, Chain A Run # 1a, EUT on Channel #38 5190MHz - n 40MHz, Chain A

Date of Test: 8/4/2010 Test Location: Chamber #3
Test Engineer: Suhaila Khushzad Config Change: none

		Power Settings	
	Target (dBm)	Measured (dBm)	Software Setting
Chain A	11.0	11.2	15.5

Fundamental Signal Field Strength

	<u> 0.5</u>	• u. •						
Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5187.130	87.2	Н	-	-	AVG	316	1.0	RB 1 MHz;VB 10 Hz;Pk
5182.270	95.0	Н	-	-	PK	316	1.0	RB 1 MHz;VB 3 MHz;Pk
5192.800	87.6	V	-	-	AVG	123	1.9	RB 1 MHz;VB 10 Hz;Pk
5191.870	95.6	V	-	-	PK	123	1.9	RB 1 MHz;VB 3 MHz;Pk

5150 MHz Band Edge Signal Radiated Field Strength - Marker Delta

54.0

-8.7

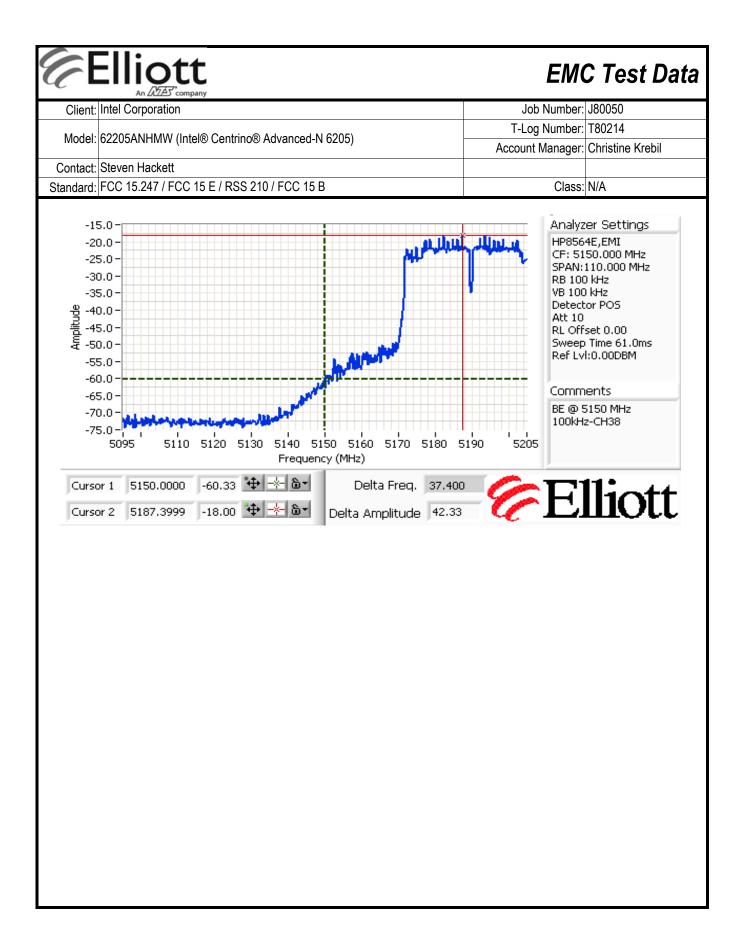
STOU WITH E	anu Euge S	iyilal Kaula	leu Fielu Sii	engui - mari	kei Deila		_			
					Н	V				
	Fundamenta	l emission le	vel @ 3m in	1MHz RBW:	95.0	95.6	Peak Measi	urement (RB=	VB=1MHz)	
	Fundamenta	l emission le	vel @ 3m in	1MHz RBW:	87.2	87.6	Average Me	asurement (F	RB=1MHz, V	/B=10Hz)
			Delta Mark	er - 100kHz	42.3	dB	<- this can o	only be used i	f band edge	signal is
	Calcula	ted Band-Ed	ge Measurer	ment (Peak):	53.3	dBuV/m	highest with	in 2MHz of ba	and edge.	
	Calculated Band-Edge Measurement (Avg):					dBuV/m	Margin	Level	Limit	Detector
		Del	ta Marker - 1	MHz/1MHz:	37.0	dB	-8.7	45.3	54	Avg
		De	lta Marker - 1	1MHz/10Hz:	41.3	dB	-20.7	53.3	74	Pk
	Calcula	ted Band-Ed	ge Measurer	ment (Peak):	58.6	dBuV/m	Using 100kl	Hz delta value)	
	Calculated Band-Edge Measurement (Avg):				46.3	dBuV/m	Using 100kl	Hz delta value	9	
							_			
Frequency	Level	Pol	FCC '	15.209	Detector	Azimuth	Height	Comments		
MHz	dRuV/m	v/h	Limit	Margin	Pk/QP/Ava	degrees	meters			•

Avg

45.3

5150.000

Using 100kHz delta value



	Elliott
Client	: Intel Corporation
Mode	: 62205ANHMW (Intel®

	An 2022 company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 1b, EUT on Channel #62 5310MHz - n 40MHz, Chain A Date of Test: 8/4/2010

Date of Test: 8/4/2010 Test Location: Chamber #3
Test Engineer: Suhaila Khushzad Config Change: none

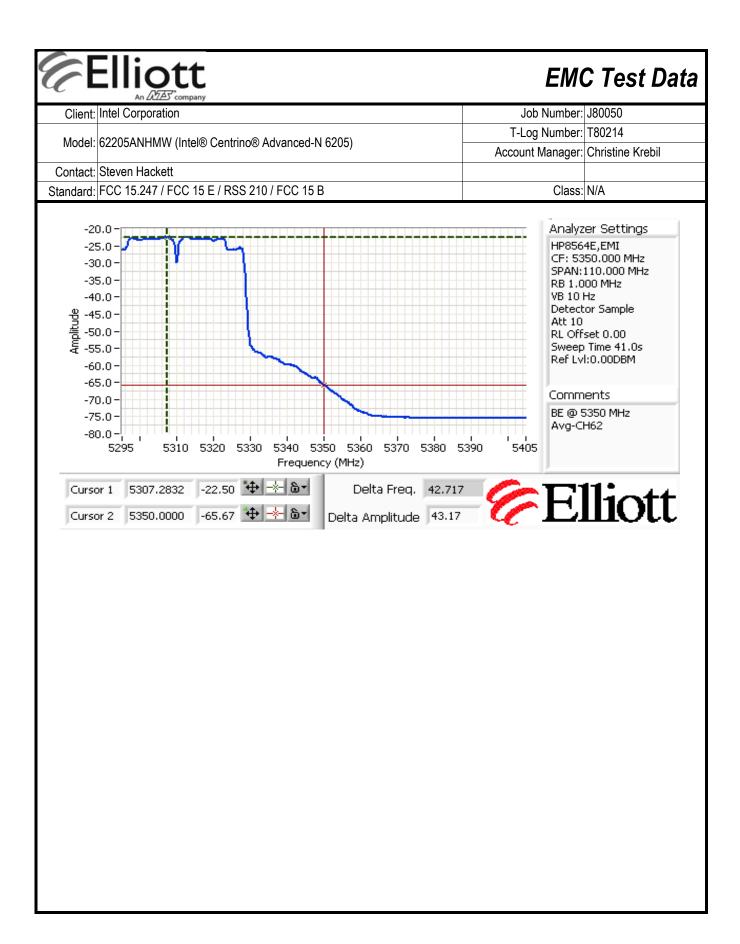
		Power Settings	
	Target (dBm)	Measured (dBm)	Software Setting
Chain A	11.0	11.2	16.0

Fundamental Signal Field Strength

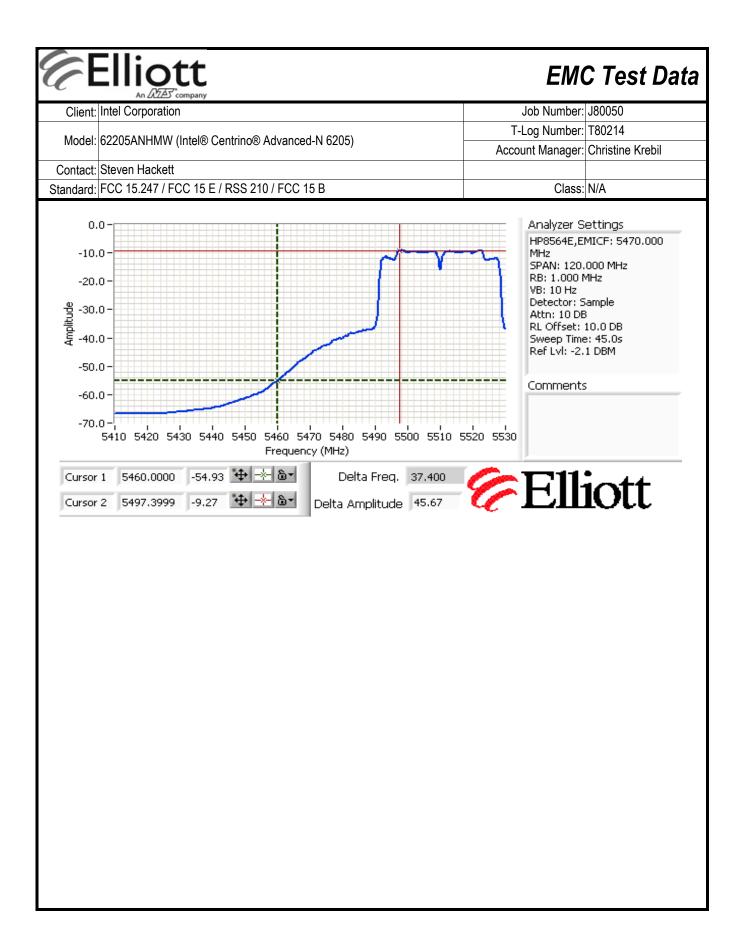
	<u> 0.5</u>	• u. •						
Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5313.070	86.7	Н	-	-	AVG	330	1.0	RB 1 MHz;VB 10 Hz;Pk
5312.800	94.6	Н	-	-	PK	330	1.0	RB 1 MHz;VB 3 MHz;Pk
5313.070	87.6	V	-	-	AVG	159	1.1	RB 1 MHz;VB 10 Hz;Pk
5313.600	95.6	V	-	-	PK	159	1.1	RB 1 MHz;VB 3 MHz;Pk

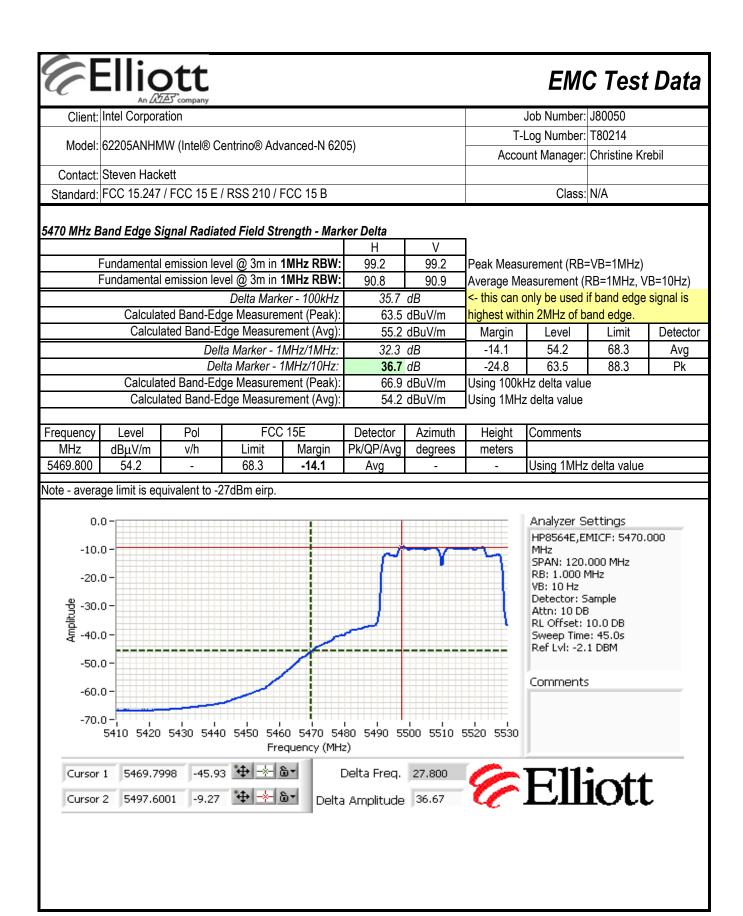
	=		_				
	Η	V					
Fundamental emission level @ 3m in 1MHz RBW:	94.6	95.6	Peak Measurement (RB=VB=1MHz)				
Fundamental emission level @ 3m in 1MHz RBW:	86.7	87.6	Average Me	asurement (F	RB=1MHz, V	B=10Hz)	
Delta Marker - 100kHz	42.8	dB	<- this can only be used if band edge signal is				
Calculated Band-Edge Measurement (Peak):	52.8	dBuV/m	highest within 2MHz of band edge.				
Calculated Band-Edge Measurement (Avg):	44.8	dBuV/m	Margin	Level	Limit	Detector	
Delta Marker - 1MHz/1MHz:	39.2	dB	-9.6	44.4	54	Avg	
Delta Marker - 1MHz/10Hz:	43.2	dB	-21.2	52.8	74	Pk	
Calculated Band-Edge Measurement (Peak):	56.4	dBuV/m	Using 100kh	Iz delta value	Э		
Calculated Band-Edge Measurement (Avg):	44.4	dBuV/m	Using 1MHz delta value				
			_				

Frequency	Level	Pol	FCC '	15.209	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5350.000	44.4	-	54.0	-9.6	Avg	-	-	Using 1MHz delta value

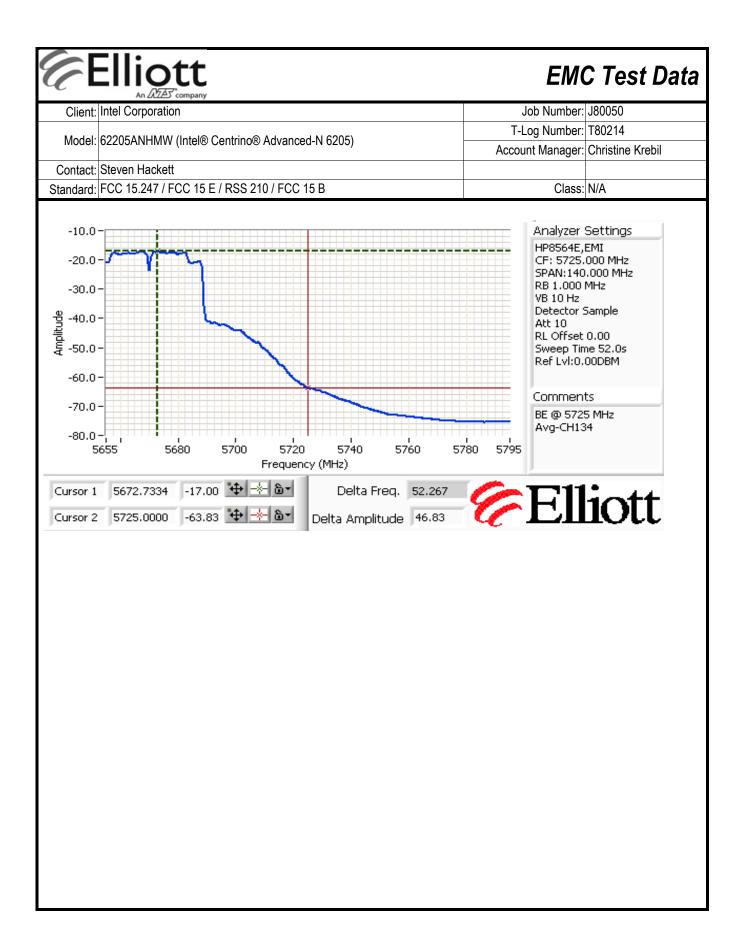


Client:	Intel Corpora	をでcompany ation					Job Number: J80050				
M							T-	Log Number:	T80214		
Model: 62205ANHMW (Intel® Centrino® Advanced-N 6205)							Acco	unt Manager:	Christine Kre	ebil	
Contact:	Steven Hacl	kett									
Standard:	FCC 15.247	/ FCC 15 E	/ RSS 210 / I	FCC 15 B				Class:	N/A		
Run # 1c, E	UT on Chan	nel #102 551	10MHz - n 40	OMHz, Chair	n A						
					Power	Settings					
			Target	t (dBm)	Measure	-	Softwar	e Setting			
		Chain A	13	3.5	13	.6	2:	2.0			
- 	al Signal Fig	eld Strength									
Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments			
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters				
5512.870	90.9	V	-	-	AVG	183	1.9	RB 1 MHz;V	1 MHz;VB 10 Hz;Pk		
5513.670	99.2	V	-	-	PK	183	1.9	RB 1 MHz;V			
5497.530	90.8	Н	-	-	AVG	262	1.0	RB 1 MHz;V			
5497.530	99.2	Н	-	-	PK	262	1.0	RB 1 MHz;V	B 3 MHz;Pk		
5/60 MH= D	ostricted B	and Edga Si	anal Padiat	nd Eiold Str	ength - Mark	or Dolta					
3400 WII IZ IX	estricted De	and Luge on	gilai Naulau	eu r ieiu Sire	H H	V	1				
F	undamenta	l emission lev	/el @ 3m in	1MHz RBW:		99.2	Peak Meas	urement (RB=	:VR=1MHz)		
		l emission lev				90.9		easurement (F	,	B=10Hz)	
				er - 100kHz	45.0			only be used i			
	Calcula	ted Band-Ed				dBuV/m		in 2MHz of ba			
		ated Band-E				dBuV/m	Margin	Level	Limit	Detecto	
			ta Marker - 1	(07	40.0		-8.8	45.2	54	Avg	
			Ita Marker -		45.7		-19.8	54.2	74	Pk	
	Calcula	ted Band-Ed				dBuV/m		Hz delta value			
		ated Band-E						z delta value			
Frequency	Level	Pol	FCC	15.209	Detector	Azimuth	Height	Comments			
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters				
	45.2		54.0	-8.8	Avg		 	Using 1MHz			





Model:			nt: Intel Corporation						J80050		
Contact:	62205ANHIVI	: 62205ANHMW (Intel® Centrino® Advanced-N 6205)						Log Number:	T80214		
								unt Manager:		ebil	
01 1	Steven Hacke										
Standard: FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B								Class:	N/A		
- ?un # 1d, E	EUT on Chann	nel #134 567	/0MHz - n 4	- ∩MHz. Chair	- 1 Δ	_		_	_	_	
ιuπ 1w, =	Г	ICI WILLY CO.	VIVII L	/Willia, Giran.		÷			ı		
	Power Settings Target (dBm) Measured (dBm)						I coffwar	e Setting			
	-	Chain A		6.5	ivieasure 16	_ ' /		e Setting 6.5			
	L	Ondining		7.0	<u> </u>	.0		3.0			
	tal Signal Fiel				-						
requency		Pol		/ 15.247	Detector	Azimuth	Height	Comments			
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters				
5657.930	93.3	Н	-	!	AVG	259	1.4	RB 1 MHz;V			
5662.130	101.7	Н	-	-	PK	259	1.4	RB 1 MHz;V			
5662.130	91.8	V	-	-	AVG	145	1.0		RB 1 MHz;VB 10 Hz;Pk		
5662.600	100.7	V	-	-	PK	145	1.0	RB 1 MHz;V	B 3 MHz;PK		
725 MHz R	Restricted Bai	nd Edge Si	anal Radiate	ad Field Stre	nath - Marke	or Dolta					
// LU IIII L.	Collinton Su.	Hu Lugo J.	IIIII Naarass	Ju i iola Ga G	H H	V	1				
	Fundamental e	emission lev	el @ 3m in	1MHz RBW:		100.7	Peak Meas	urement (RB=	=VR=1MHz)		
	Fundamental e					91.8				R=10Hz	
			_	ker - 100kHz	45.7	· · · · · · · · · · · · · · · · · · ·					
	Calculat	ted Band-Edg				dBuV/m		nin 2MHz of ba		- 5	
		ated Band-Ed				dBuV/m	Margin	Level	Limit	Detec	
			a Marker - 1	(0,	43.3		-21.8	46.5	68.3	Avg	
			ta Marker - 1		46.8		-32.3	56.0	88.3	Pk	
	Calculat	ted Band-Edg				dBuV/m		Hz delta value			
				ement (Avg):			Using 1MHz				
	Level	Pol	FCC	C 15E	Detector	Azimuth	Height	Comments			
Frequency								0011111101110			
Frequency MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	1			



EII	iott
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	All Death Company		
Client:	Intel Corporation	Job Number:	J80050
Model	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANT INVV (ITTER® CERTIFIC® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 2, Band Edge Field Strength - n 40MHz, Chain B Run # 2a, EUT on Channel #38 5190MHz - n 40MHz, Chain B

Date of Test: 8/4/2010 Test Location: FT Chamber #3

Test Engineer: Rafael Varelas Config Change: none

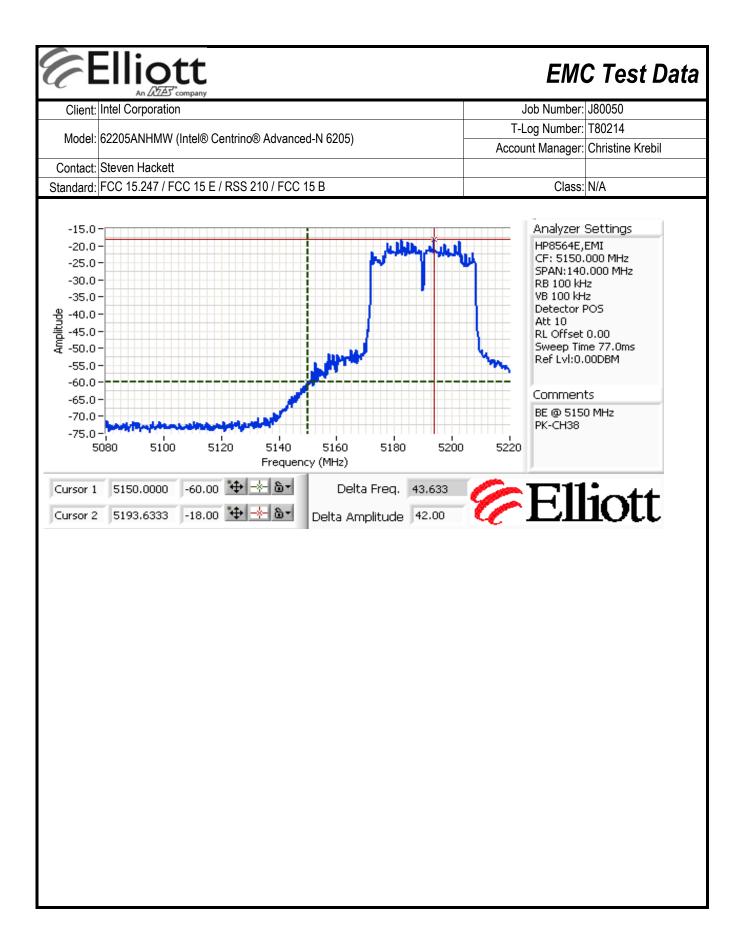
	Power Settings							
	Target (dBm)	Target (dBm) Measured (dBm) Software Setting						
Chain B	11.0	11.3	15.5					

Fundamental Signal Field Strength

Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5182.130	89.2	Н	-	-	AVG	152	1.0	RB 1 MHz;VB 10 Hz;Pk
5182.270	97.8	Н	-	-	PK	152	1.0	RB 1 MHz;VB 3 MHz;Pk
5193.000	90.2	V	-	-	AVG	160	1.2	RB 1 MHz;VB 10 Hz;Pk
5193.670	98.3	V	-	-	PK	160	1.2	RB 1 MHz;VB 3 MHz;Pk

	Н	V				
Fundamental emission level @ 3m in 1MHz RBW:	98.3	97.8	Peak Measurement (RB=VB=1MHz)			
Fundamental emission level @ 3m in 1MHz RBW:	90.2	89.2	Average Measurement (RB=1MHz, VB=10Hz)			
Delta Marker - 100kHz	42.0	dB	<- this can only be used if band edge signal is			
Calculated Band-Edge Measurement (Peak):	56.3	dBuV/m	highest within 2MHz of band edge.			
Calculated Band-Edge Measurement (Avg):	48.2	dBuV/m	Margin	Level	Limit	Detector
Delta Marker - 1MHz/1MHz:	37.0	dB	-5.8	48.2	54	Avg
Delta Marker - 1MHz/10Hz:	41.0	dB	-17.7	56.3	74	Pk
Calculated Band-Edge Measurement (Peak):	61.3	dBuV/m	Using 100kHz delta value			
Calculated Band-Edge Measurement (Avg):	49.2	dBuV/m	Using 100kl	lz delta value	9	

Frequency	Level	Pol	FCC '	15.209	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5150.000	48.2	-	54.0	-5.8	Avg	-	-	Using 100kHz delta value



Elliott

EMC Test Data

	An 2022 company		
Client:	Intel Corporation	Job Number:	J80050
Model	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
woder.	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 2b, EUT on Channel #62 5310MHz - n 40MHz, Chain B

Date of Test: 8/4/2010 Test Location: FT Chamber #3

Test Engineer: Rafael Varelas Config Change: none

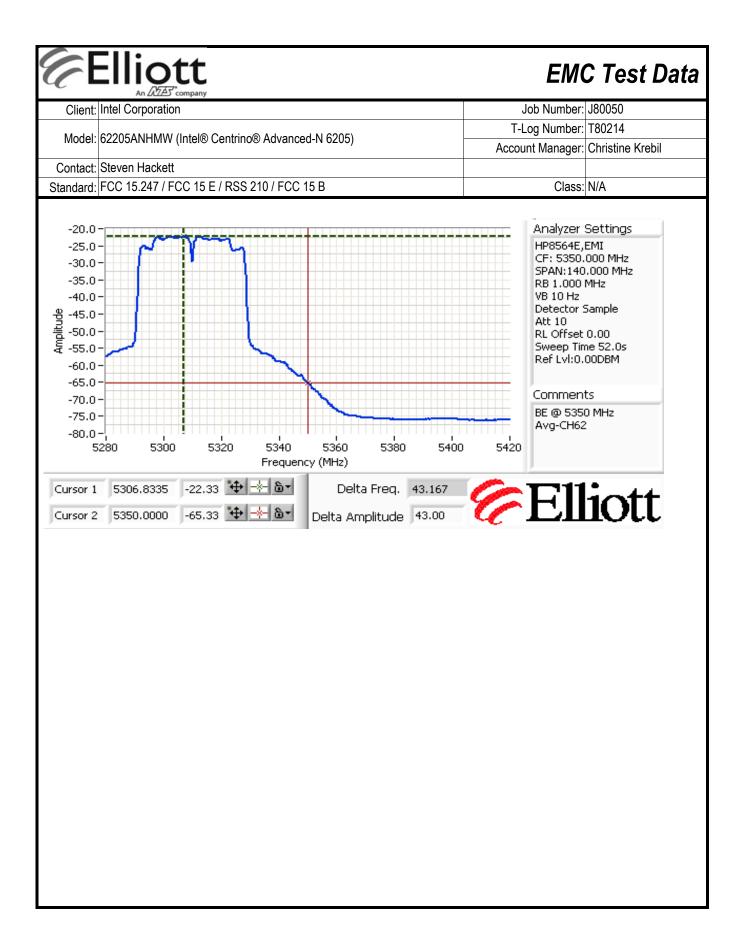
Γ			Power Settings	
		Target (dBm)	Measured (dBm)	Software Setting
	Chain B	11.0	11.2	16.5

Fundamental Signal Field Strength

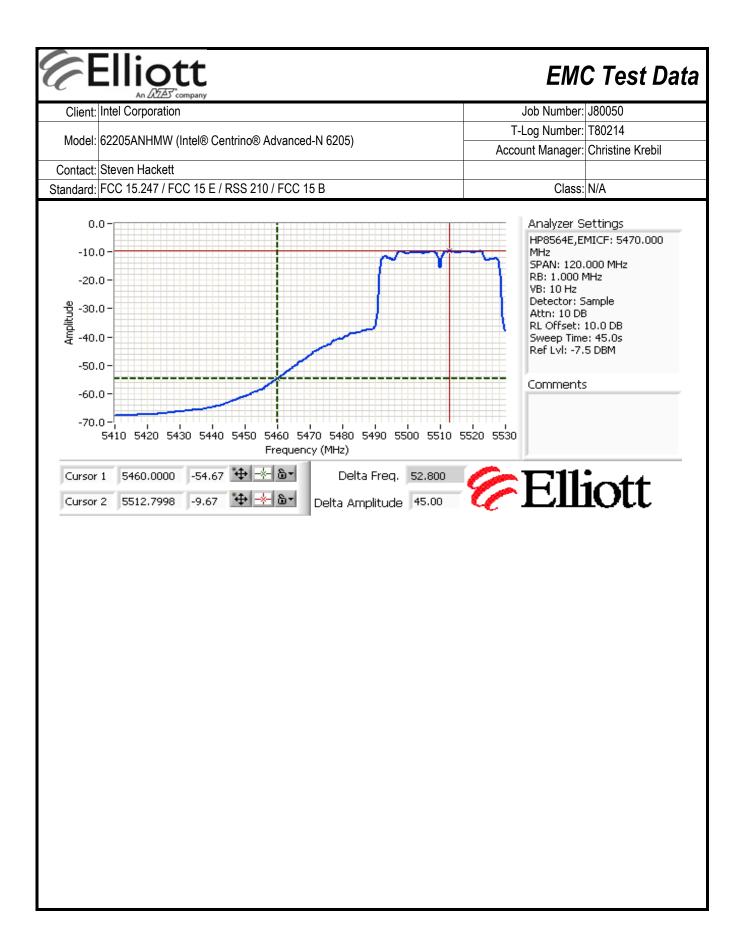
	anaanonan olgian i iota oliongan									
Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5311.600	88.0	V	-	-	AVG	160	1.0	RB 1 MHz;VB 10 Hz;Pk		
5311.330	96.3	V	-	-	PK	160	1.0	RB 1 MHz;VB 3 MHz;Pk		
5322.600	89.6	Н	-	-	AVG	118	1.1	RB 1 MHz;VB 10 Hz;Pk		
5320.270	97.8	Н	-	-	PK	118	1.1	RB 1 MHz;VB 3 MHz;Pk		

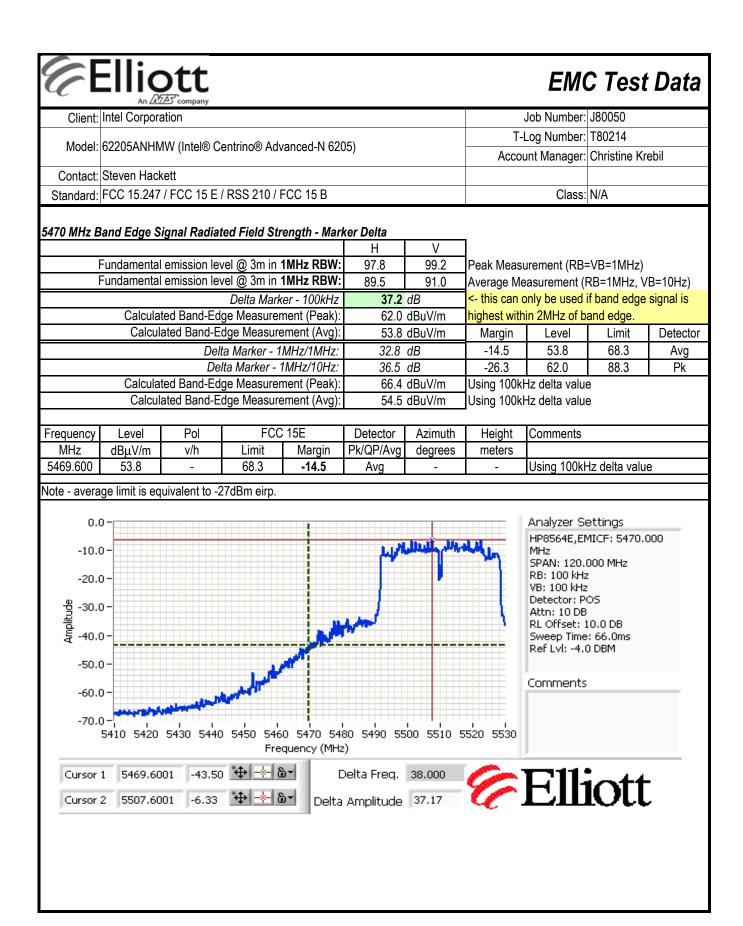
	=		_			
	Η	V				
Fundamental emission level @ 3m in 1MHz RBW:	97.8	96.3	Peak Measurement (RB=VB=1MHz)			
Fundamental emission level @ 3m in 1MHz RBW:	89.6	88.0	Average Measurement (RB=1MHz, VB=10Hz)			
Delta Marker - 100kHz	43.0	dB	<- this can only be used if band edge signal is			
Calculated Band-Edge Measurement (Peak):	54.8	dBuV/m	highest within 2MHz of band edge.			
Calculated Band-Edge Measurement (Avg):	46.6	dBuV/m	Margin	Level	Limit	Detector
Delta Marker - 1MHz/1MHz:	39.8	dB	-7.4	46.6	54	Avg
Delta Marker - 1MHz/10Hz:	43.0	dB	-19.2	54.8	74	Pk
Calculated Band-Edge Measurement (Peak):	58.0	dBuV/m	Using 100kHz delta value			
Calculated Band-Edge Measurement (Avg):	46.6	dBuV/m	Using 1MHz delta value			
			- '			

Frequency	Level	Pol	FCC ²	15.209	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5350.000	46.6	-	54.0	-7.4	Avg	•	-	Using 1MHz delta value

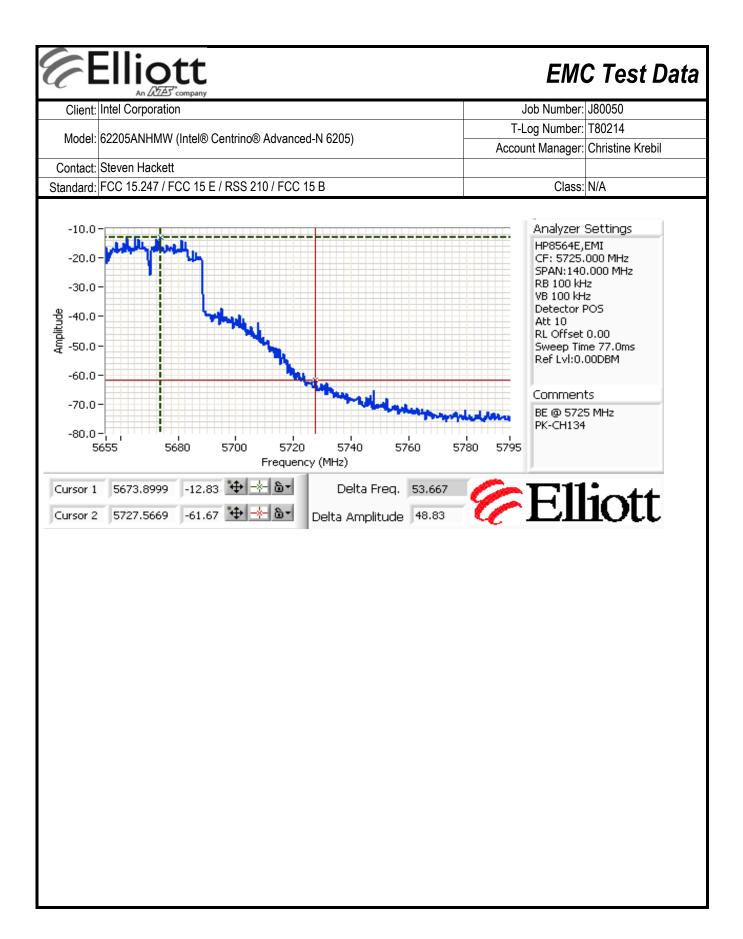


Model:		ation						Job Number:	J80050	
Wodo.	62205ANHN	//W (Intel® C	entrino® Adv	anced-N 620	75)			Log Number:		
			chumos Auv	7d110CU-11 020			Account Manager: Christine K			
	Steven Hack		. = 0 0 0 10 1							
Standard:	FCC 15.247	/ FCC 15 E	/ RSS 210 / F	-CC 15 B				Class:	N/A	
Run # 2c. E	UT on Chan	nel #102 55 ²	10MHz - n 40	MHz. Chain	В					
		1101 11 102 00		, <u>.</u> , C.	Power	Settings				
				(dBm)	Measure	, ,		e Setting		
	Chain B 13.5			3.5	13	3.4	2	2.0		
undamen	tal Signal Fie	eld Strenath								
requency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
FF00 000	89.5	V	-	-	AVG	136	1.0	RB 1 MHz;V	B 10 Hz;Pk	
5506.800					PK	136	1.0	DR 1 MHz·\/	B 3 MHz;Pk	
5506.270	97.8	V	-	-						
5506.270 5517.870	97.8 91.0 99.2	V H H	- - -	- - -	AVG PK	103 103	1.2	RB 1 MHz;V	B 10 Hz;Pk	
5506.270 5517.870 5513.670	91.0 99.2	H	-	-	AVG PK	103 103	1.2	RB 1 MHz;V	B 10 Hz;Pk	
5506.800 5506.270 5517.870 5513.670 6460 MHz F	91.0	H	-	-	AVG PK ength - Mark	103 103 er Delta	1.2	RB 1 MHz;V	B 10 Hz;Pk	
5506.270 5517.870 5513.670 6460 MHz F	91.0 99.2 Restricted Ba	H H and Edge Si	- gnal Radiate	- - ed Field Stre	AVG PK ength - Marke H	103 103 er Delta V	1.2	RB 1 MHz;V RB 1 MHz;V	B 10 Hz;Pk B 3 MHz;Pk	
5506.270 5517.870 5513.670 460 MHz F	91.0 99.2 Restricted Ba	H H and Edge Si	- gnal Radiate vel @ 3m in '	- ed Field Stre 1MHz RBW:	AVG PK ength - Marke H 97.8	103 103 er Delta V 99.2	1.2 1.2 Peak Meas	RB 1 MHz;V RB 1 MHz;V urement (RB=	B 10 Hz;Pk B 3 MHz;Pk VB=1MHz)	R=10Hz)
5506.270 5517.870 5513.670 460 MHz F	91.0 99.2 Restricted Ba	H H and Edge Si	- g nal Radiate vel @ 3m in ' vel @ 3m in '	ed Field Stre 1MHz RBW: 1MHz RBW:	AVG PK ength - Mark H 97.8 89.5	103 103 er Delta V 99.2 91.0	1.2 1.2 Peak Meas Average Me	RB 1 MHz;V RB 1 MHz;V urement (RB=	B 10 Hz;Pk B 3 MHz;Pk VB=1MHz) RB=1MHz, VI	
5506.270 5517.870 5513.670 460 MHz F	91.0 99.2 Restricted Ba Fundamental	H H and Edge Si emission lev emission lev	gnal Radiate vel @ 3m in vel @ 3m in vel @ 3m in vel @ 3m in vel	ed Field Stre 1MHz RBW: 1MHz RBW: er - 100kHz	AVG PK ength - Marke H 97.8 89.5 44.2	103 103 er Delta V 99.2 91.0 dB	1.2 1.2 Peak Meas Average Me	RB 1 MHz;V RB 1 MHz;V urement (RB= easurement (Fonly be used i	B 10 Hz;Pk B 3 MHz;Pk EVB=1MHz) RB=1MHz, VI f band edge	
5506.270 5517.870 5513.670 460 MHz F	91.0 99.2 Restricted Ba Fundamental Fundamental	H H and Edge Signary emission level emission level ted Band-Ed	gnal Radiate vel @ 3m in ' vel @ 3m in ' Delta Mark ge Measurer	ed Field Stre 1MHz RBW: 1MHz RBW: er - 100kHz nent (Peak):	AVG PK ength - Marke H 97.8 89.5 44.2 55.0	103 103 er Delta V 99.2 91.0 dB	1.2 1.2 Peak Meas Average Me this can highest with	RB 1 MHz;V RB 1 MHz;V urement (RB= easurement (FB) only be used in 2MHz of be	B 10 Hz;Pk B 3 MHz;Pk VB=1MHz) RB=1MHz, VI f band edge and edge.	signal is
5506.270 5517.870 5513.670 460 MHz F	91.0 99.2 Restricted Ba Fundamental Fundamental	H H and Edge Signary emission level ted Band-Edgarded Band-Edgarded	gnal Radiate vel @ 3m in ' vel @ 3m in ' Delta Mark ge Measurer dge Measurer	ed Field Stree 1MHz RBW: 1MHz RBW: er - 100kHz ment (Peak): ement (Avg):	AVG PK ength - Marke H 97.8 89.5 44.2 55.0 46.8	103 103 er Delta V 99.2 91.0 dB dBuV/m dBuV/m	1.2 1.2 Peak Meas Average Meas - this can of highest with	RB 1 MHz;V RB 1 MHz;V urement (RB= easurement (FBonly be used in 2MHz of be Level	B 10 Hz;Pk B 3 MHz;Pk VB=1MHz) RB=1MHz, VI f band edge and edge. Limit	signal is Detect
5506.270 5517.870 5513.670 460 MHz F	91.0 99.2 Restricted Ba Fundamental Fundamental	H H and Edge Signary emission level emission level ted Band-Ed ated Band-E	gnal Radiate yel @ 3m in ' yel @ 3m in ' Delta Mark ge Measurer dge Measure ta Marker - 1	ed Field Stree IMHz RBW: IMHz RBW: er - 100kHz ment (Peak): ement (Avg): MHz/1MHz:	AVG PK ength - Marke H 97.8 89.5 44.2 55.0 46.8 40.3	103 103 er Delta V 99.2 91.0 dB dBuV/m dBuV/m	1.2 1.2 Peak Meas Average Me this can object with Margin8.0	RB 1 MHz;V RB 1 MHz;V urement (RB= easurement (Fonly be used in 2MHz of be used in 2MHz	B 10 Hz;Pk B 3 MHz;Pk EVB=1MHz) RB=1MHz, VI f band edge and edge. Limit 54	signal is Detect Avg
5506.270 5517.870 5513.670 460 MHz F	91.0 99.2 Restricted Base Fundamental Fundamental Calcula Calcul	H H H and Edge Signary emission level emission level ted Band-Ed ated Band-E Deli Deli	yel @ 3m in ' yel @ 3m in ' yel @ 3m in ' Delta Mark ge Measurer dge Measurer ta Marker - 1	ed Field Stree IMHz RBW: IMHz RBW: er - 100kHz nent (Peak): ement (Avg): MHz/1MHz: IMHz/10Hz:	AVG PK PR 97.8 89.5 44.2 55.0 46.8 40.3	103 103 er Delta V 99.2 91.0 dB dBuV/m dBuV/m dB	Peak Meas Average Me - this can elighest with Margin -8.0 -19.0	urement (RB=easurement (Fonly be used in 2MHz of balance 46.0 55.0	B 10 Hz;Pk B 3 MHz;Pk EVB=1MHz) RB=1MHz, VI f band edge and edge. Limit 54 74	signal is Detec
5506.270 5517.870 5513.670 6460 MHz F	91.0 99.2 Restricted Base Fundamental Fundamental Calcula Calcula	H H and Edge Signary emission level emission level ted Band-Ed ated Band-E	gnal Radiate yel @ 3m in yel @	ed Field Stre IMHz RBW: IMHz RBW: er - 100kHz ment (Peak): ement (Avg): MHz/1MHz: IMHz/10Hz: ment (Peak):	AVG PK ength - Marke H 97.8 89.5 44.2 55.0 46.8 40.3 45.0 58.9	103 103 er Delta V 99.2 91.0 dB dBuV/m dBuV/m	Peak Meas Average Me - this can e highest with Margin -8.0 -19.0 Using 100k	RB 1 MHz;V RB 1 MHz;V urement (RB= easurement (Fonly be used in 2MHz of be used in 2MHz	B 10 Hz;Pk B 3 MHz;Pk EVB=1MHz) RB=1MHz, VI f band edge and edge. Limit 54 74	signal is Detect Avg
5506.270 5517.870 5513.670	91.0 99.2 Restricted Barricted	H H H and Edge Signary emission level emission emissio	gnal Radiate yel @ 3m in ' yel @ 3m in ' Delta Mark ge Measurer dge Measurer ta Marker - 1 ta Marker - 2 ge Measurer dge Measurer	ed Field Stree IMHz RBW: IMHz RBW: er - 100kHz ment (Peak): ement (Avg): MHz/10Hz: ment (Peak): ement (Avg):	AVG PK PR 97.8 89.5 44.2 55.0 46.8 40.3 45.0 58.9 46.0	103 103 103 Per Delta V 99.2 91.0 dB dBuV/m dBuV/m dB dBuV/m dBdbuV/m	Peak Meas Average Me - this can elighest with Margin -8.0 -19.0 Using 100k Using 1MH:	RB 1 MHz;V RB 1 MHz;V urement (RB= easurement (Fonly be used in 2MHz of bit) Level 46.0 55.0 Hz delta value z delta value	B 10 Hz;Pk B 3 MHz;Pk EVB=1MHz) RB=1MHz, VI f band edge and edge. Limit 54 74	signal is Detect Avg
5506.270 5517.870 5513.670 6460 MHz F	91.0 99.2 Restricted Base Fundamental Fundamental Calcula Calcula Calcula Level	H H H and Edge Signary emission level emission emissio	gnal Radiate yel @ 3m in ' yel @ 3m in ' Delta Mark ge Measurer dge Measurer ta Marker - 1 ta Marker - 1 ge Measurer dge Measurer dge Measurer	ed Field Stree IMHz RBW: IMHz RBW: er - 100kHz ment (Peak): ement (Avg): MHz/1MHz: IMHz/10Hz: ment (Peak): ement (Avg):	AVG PK PR PR PR PR PR PR PR PR PR	103 103 103 er Delta V 99.2 91.0 dB dBuV/m dBuV/m dBuV/m dBuV/m dBuV/m dBuV/m dBuV/m	Peak Meas Average Me - this can elighest with Margin -8.0 -19.0 Using 100k Using 1MH:	urement (RB=easurement (RBonly be used in 2MHz of be 46.0 55.0 Hz delta value	B 10 Hz;Pk B 3 MHz;Pk EVB=1MHz) RB=1MHz, VI f band edge and edge. Limit 54 74	signal is Detect Avg
5506.270 5517.870 5513.670 460 MHz F	91.0 99.2 Restricted Barricted	H H H and Edge Signary emission level emission emissio	gnal Radiate yel @ 3m in ' yel @ 3m in ' Delta Mark ge Measurer dge Measurer ta Marker - 1 ta Marker - 2 ge Measurer dge Measurer	ed Field Stree IMHz RBW: IMHz RBW: er - 100kHz ment (Peak): ement (Avg): MHz/10Hz: ment (Peak): ement (Avg):	AVG PK PR 97.8 89.5 44.2 55.0 46.8 40.3 45.0 58.9 46.0	103 103 103 Per Delta V 99.2 91.0 dB dBuV/m dBuV/m dB dBuV/m dBdbuV/m	Peak Meas Average Me - this can elighest with Margin -8.0 -19.0 Using 100k Using 1MH:	RB 1 MHz;V RB 1 MHz;V urement (RB= easurement (Fonly be used in 2MHz of bit) Level 46.0 55.0 Hz delta value z delta value	B 10 Hz;Pk B 3 MHz;Pk EVB=1MHz) RB=1MHz, VI f band edge and edge. Limit 54 74	signal is Detect Avg

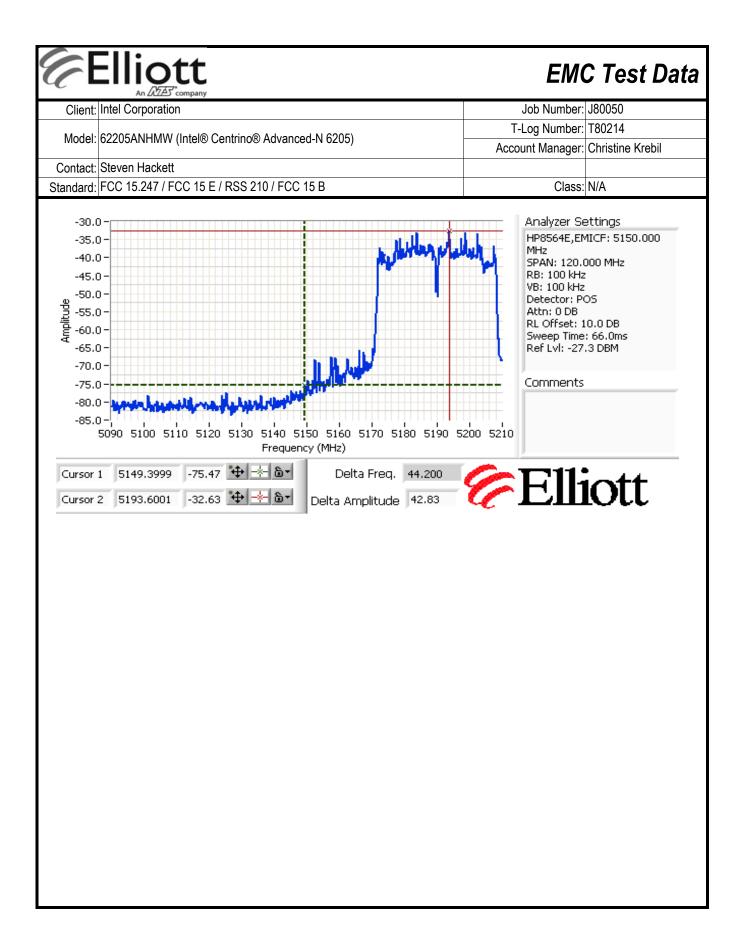




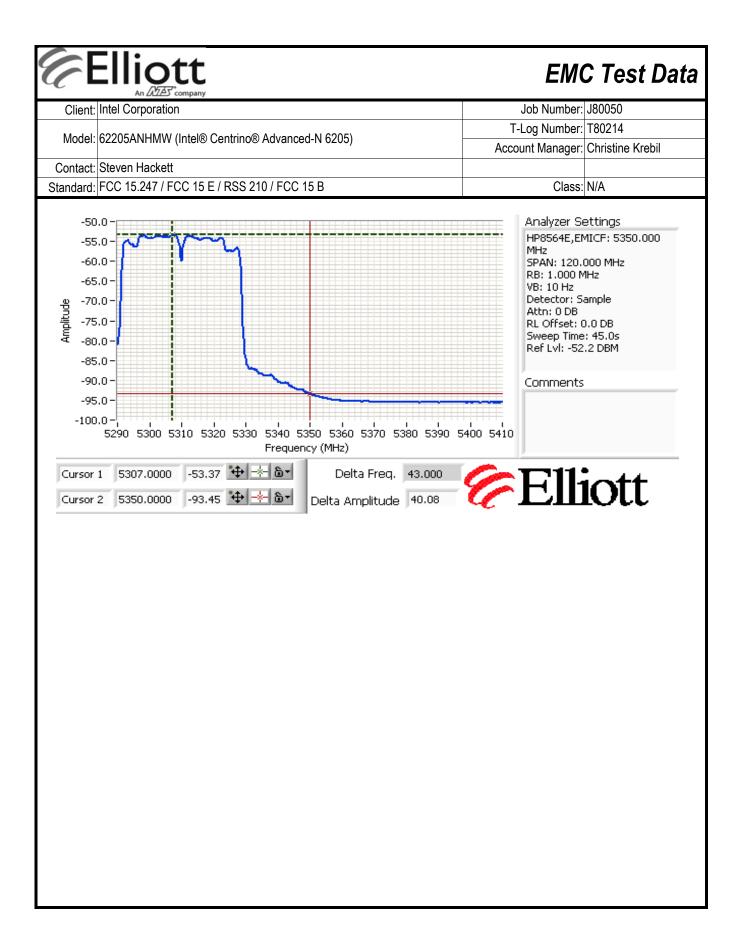
	Intel Corpora	ation						Job Number:	J80050	
Madal	COOOLANIIIN	MM /I-4-18 O	1	d NI CO(25)		T-	Log Number:	T80214	
Model:	62205ANHN	/ivv (intel® C	entrino® Ad\	/anced-in 6∠l	J5)		Acco	unt Manager:	Christine Kre	ebil
Contact:	Steven Hack	kett								
Standard:	FCC 15.247	/ FCC 15 E	/ RSS 210 / I	FCC 15 B				Class:	N/A	
Run # 2d, E	UT on Chan	nel #134 56	70MHz - n 40	MHz, Chain	в					
					Power	Settings				
			Target	(dBm)	Measure	-	Softwar	e Setting		
	Chain B 16.5			. ,	16	.6	2	6.5		
Eundamont	al Signal Fie	old Stronath								
Frequency	Level	Pol		/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5682.600	90.4	V	-	-	AVG	146	1.0	RB 1 MHz;V	'B 10 Hz;Pk	
5682.200	98.4	V	-	-	PK	146	1.0	RB 1 MHz;V	B 3 MHz;Pk	
5661.870	91.9	Н	-	-	AVG	108	1.0	RB 1 MHz;V	'B 10 Hz;Pk	
5662.200	100.9	Н	-	-	PK	108	1.0	RB 1 MHz;V	B 3 MHz;Pk	
5725 MU- 5	ostriotod Da	and Edna Ci	anal Dadiati	ad Field Ctua	maith Mark	ou Dalta				
O ZO IVITZ N	testricteu Da	and Edge Si	gilai Kaulate	eu rieiu Sire	ength - Marke ⊟	er Deila ∨	1			
	Fundamental	l emission lev	vel @ 3m in	1MHz RBW:	100.9	98.4	Peak Meas	urement (RB=	=VB=1MHz)	
	Fundamental				91.9	90.4		easurement (F	•	B=10Hz)
				er - 100kHz	48.8		_	only be used i		,
	Calcula	ted Band-Ed				dBuV/m		nin 2MHz of ba	_	J
		ated Band-E	•	. ,		dBuV/m	Margin	Level	Limit	Detecto
		Deli	ta Marker - 1	MHz/1MHz:	43.7		-25.2	43.1	68.3	Avg
		De	lta Marker - 1	1MHz/10Hz:	47.7	dB	-36.2	52.1	88.3	Pk
	Calcula	ted Band-Ed	ge Measurer	nent (Peak):	57.2	dBuV/m	Using 100k	Hz delta value	Э	
	Calcul	ated Band-E	dge Measure	ement (Avg):	44.2	dBuV/m	Using 100k	Hz delta value	Э	
_	Level	Pol	FCC	: 15E	Detector	Azimuth	Height	Comments		
Frequency I					Pk/QP/Avg	degrees	meters	1		
Frequency MHz	dBμV/m	v/h	Limit	Margin	FK/QF/AVQ	uegrees	11166613			



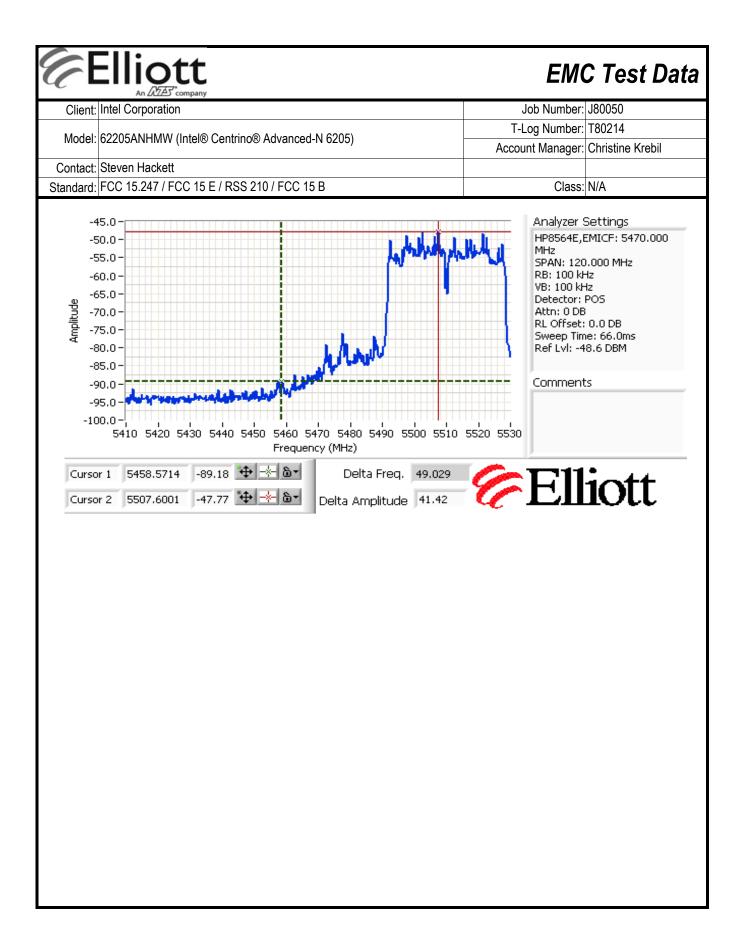
	Ellic	ott ZAS company						EMO	C Test	Data
Client:	Intel Corpora	ation					,	Job Number:	J80050	
• • • • • • • • • • • • • • • • • • • •	20005451115		0 4 1	1.11.00/	~ - \		T-I	Log Number:	T80214	
Model:	62205ANHN	/IW (Intel® C	entrino® Adv	anced-N 620)5)			unt Manager:		ebil
Contact:	Steven Hack	kett								
Standard:	FCC 15.247	/ FCC 15 E	/ RSS 210 / F	-CC 15 B		_		Class:	N/A	
Run # 3a, E	Oate of Test:	eld Strength inel #38 5190 8/5/2010 Mehran Birg	0MHz - n 40N		Te Con	nfig Change:	FT Chambe none	er #3		
		Tarnet	(dQm)	ſ	Power S	-	ed (dBm)	Ī	I Software	e Setting
	A	Target B	C (aBm)	Total	A	ivieasure B	, ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	Total	SUILWare	3 Setting
Chain	10.0	10.0	U	13.0	10.0	10.0	U	C Total 13.0 18.4		
Frequency MHz 5187.270	tal Signal Fie Level dBμV/m 90.1	Pol v/h V		/ 15.247 Margin -	Detector Pk/QP/Avg AVG	Azimuth degrees	Height meters	Comments RB 1 MHz;V		
5184.670	100.4	V	-	-	PK	153	1.2	RB 1 MHz;V		
5193.600 5195.330	88.6 98.6	H	-	-	AVG PK	129 129	1.0	RB 1 MHz;V RB 1 MHz;V		
5150 MHz B	Band Edge S Fundamental	ignal Radiat I emission lev	vel @ 3m in 1	1MHz RBW:	ker Delta H 98.6 88.6	V 100.4 90.1		urement (RB=	=VB=1MHz)	
			Delta Mark	er - 100kHz	42.8		<- this can only be used if band edge signal is			
		ted Band-Ed				dBuV/m	highest within 2MHz of band edge.			
	Calcul	ated Band-E				dBuV/m		Margin Level Limit Dete		
			ta Marker - 1		36.5		-6.7	47.3	54	Avg
	0.1.1.				39.1		-16.4	57.6	74	Pk
Delta Marker - 1MHz/10Hz Calculated Band-Edge Measurement (Peak Calculated Band-Edge Measurement (Avg						dBuV/m dBuV/m		Hz delta value Hz delta value		
-								т		
Frequency	Level	Pol					l Heiaht	Comments		
Frequency MHz	Level dBμV/m	Pol v/h	FCC 1 Limit	15.209 Margin	Detector Pk/QP/Avg	Azimuth degrees	Height meters	Comments		

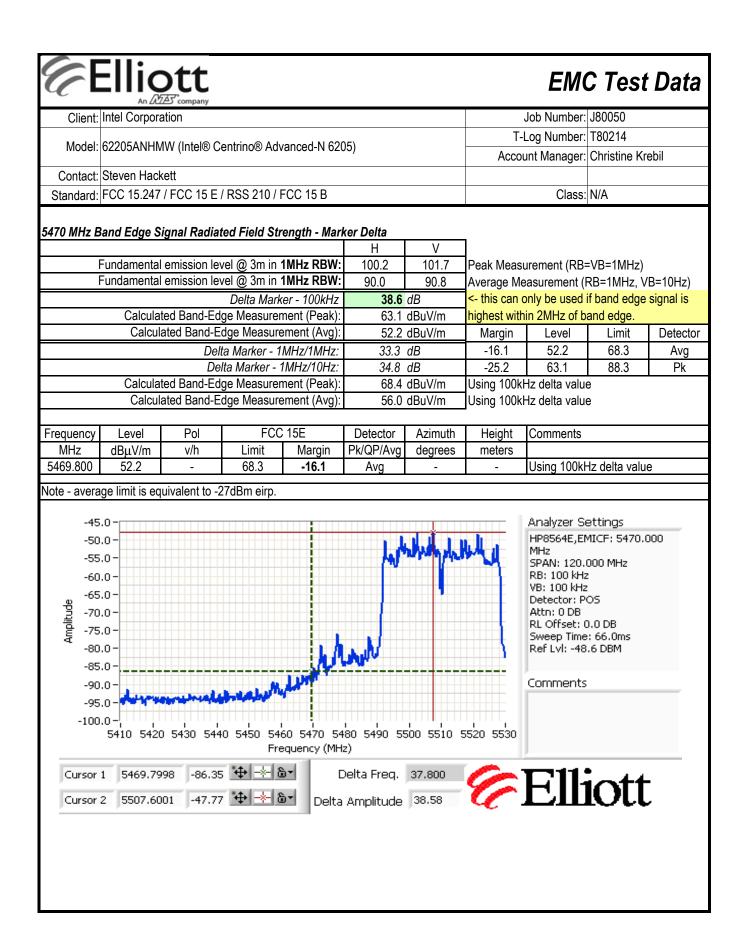


Model:	Intel Corpora	ott Ar company ation					1	Job Number:	J80050		
Wiodoi.	62205ANHN	/// (Intel® C	entrino® Adv	anced-N 620)5)			Log Number:			
			onamo o nav	411004 11 020			Accou	unt Manager:	Christine Kr	ebil	
	Steven Hack		100001010	-00 45 B			Class: N/A				
Standard:	FCC 15.247	/ FCC 15 E	/ RSS 210 / F	-CC 15 B				Class	: N/A		
Run # 3b, E	UT on Chan	nel #62 531	0MHz - n 40I	MHz, Chain	A+B						
					Power S	Settings					
		Target	(dBm)			Measur	ed (dBm)		Softwar	e Setting	
Chain	in A B C Total 10.0 10.0 13.0				Α	В	С	Total			
	10.0	10.0		13.0	10.1	10.1		13.1	19.5	/ 19.5	
- -undamen	tal Signal Fie	eld Strenath									
Frequency		Pol		/ 15.247	Detector	Azimuth	Height	Comments			
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters				
5298.130	88.7	V	-	-	AVG	153	1.2	RB 1 MHz;\	Hz;VB 10 Hz;Pk		
5305.470	99.6	V	-	-	PK	153	1.2	RB 1 MHz;\	1 MHz;VB 3 MHz;Pk		
E040 400	87 N				A) /O	111	1.2	RR 1 MHz·\	/B 10 Hz;Pk		
5312.400					AVG	111	1.2	1 (0 1 1011 12, 1	7 D 10 112,1 K		
5312.400	96.7	H	-	-	PK	111	1.2		/B 3 MHz;Pk		
5308.870	96.7	Н	- -	- - - May	PK						
5308.870		Н	- - ted Field Str	- - ength - Marl	PK ker Delta	111					
5308.870 5350 MHz E	96.7 Band Edge S	H ignal Radia			PK ker Delta H	111 V	1.2	RB 1 MHz;\	/B 3 MHz;Pk		
5308.870 5350 MHz E	96.7 Band Edge S Fundamental	H ignal Radia	/el @ 3m in <i>'</i>	1MHz RBW:	PK ker Delta H 87.0	V 99.6	1.2 Peak Measu	RB 1 MHz;\	/B 3 MHz;Pk =VB=1MHz)		
5308.870 5350 MHz E	96.7 Band Edge S	H ignal Radia	vel @ 3m in '	1MHz RBW: 1MHz RBW:	PK ker Delta H 87.0 96.7	V 99.6 88.7	1.2 Peak Measu Average Me	RB 1 MHz;\u00e4 urement (RB easurement (/B 3 MHz;Pk =VB=1MHz) RB=1MHz, V	/B=10Hz)	
5308.870 5350 MHz E	96.7 Band Edge S Fundamental Fundamental	H ignal Radia emission level emission level	vel @ 3m in ' vel @ 3m in ' Delta Mark	1MHz RBW: 1MHz RBW: er - 100kHz	PK ker Delta H 87.0 96.7 45.7	V 99.6 88.7	1.2 Peak Measu Average Me	RB 1 MHz,\understand	/B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge	/B=10Hz)	
5308.870 5350 MHz E	96.7 Band Edge S Fundamental Fundamental Calcula	H ignal Radiat emission lev emission lev ted Band-Ed	vel @ 3m in '	IMHz RBW: IMHz RBW: er - 100kHz nent (Peak):	PK ker Delta H 87.0 96.7 45.7 53.9	111 V 99.6 88.7	Peak Measu Average Me this can of highest with	RB 1 MHz;\u00e4 urement (RB easurement (/B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge	/B=10Hz) signal is	
5308.870 5350 MHz E	96.7 Band Edge S Fundamental Fundamental Calcula	H ignal Radia emission lev emission lev ted Band-Ed ated Band-E	vel @ 3m in vel @ 3m in vel @ 3m in vel welta Mark ge Measurer	IMHz RBW: IMHz RBW: er - 100kHz nent (Peak): ement (Avg):	PK ker Delta H 87.0 96.7 45.7 53.9	V 99.6 88.7 dB dBuV/m dBuV/m	1.2 Peak Measu Average Me	RB 1 MHz;\ urement (RB: easurement (only be used in 2MHz of b	/B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge band edge.	/B=10Hz) signal is Detector	
5308.870 5350 MHz E	96.7 Band Edge S Fundamental Fundamental Calcula	H ignal Radia emission level emission level ted Band-Edated Band-E	vel @ 3m in ' vel @ 3m in ' Delta Mark ge Measuren dge Measure	IMHz RBW: IMHz RBW: er - 100kHz nent (Peak): ement (Avg): MHz/1MHz:	PK Ker Delta H 87.0 96.7 45.7 53.9 51.0	V 99.6 88.7 dB dBuV/m dBuV/m	Peak Measu Average Me <- this can of highest with Margin	urement (RB: easurement (only be used in 2MHz of b	-VB=1MHz) RB=1MHz, V if band edge band edge. Limit	/B=10Hz) signal is	
5308.870 5350 MHz E	96.7 Band Edge S Fundamental Fundamental Calcula Calcul	H ignal Radiate emission level emission level ted Band-Ede ated Band-Ede ated Band-Ede Del	vel @ 3m in ' vel @ 3m in ' Delta Mark ge Measurer dge Measure ta Marker - 1	IMHz RBW: IMHz RBW: er - 100kHz nent (Peak): ement (Avg): MHz/1MHz: IMHz/10Hz:	PK Ker Delta H 87.0 96.7 45.7 53.9 51.0 38.5 40.1	V 99.6 88.7 dB dBuV/m dBuV/m	Peak Measu Average Me <- this can of highest with Margin -7.5 -20.1	urement (RB: easurement (only be used in 2MHz of b Level 46.5	=VB=1MHz; Pk =VB=1MHz, V if band edge pand edge. Limit 54 74	/B=10Hz) signal is Detector	
5308.870 5350 MHz E	96.7 Band Edge S Fundamental Fundamental Calcula Calcula Calcula	H Ignal Radiat emission level emission level ted Band-Edeted Ban	vel @ 3m in ' vel @ 3m in ' Delta Mark ge Measurer dge Measure ta Marker - 1 Ita Marker - 1	IMHz RBW: IMHz RBW: er - 100kHz nent (Peak): ement (Avg): MHz/1MHz: IMHz/10Hz: nent (Peak):	PK ker Delta H 87.0 96.7 45.7 53.9 51.0 38.5 40.1 61.1	V 99.6 88.7 dB dBuV/m dBuV/m dB	Peak Measu Average Me <- this can of highest with Margin -7.5 -20.1 Using 100kk	urement (RB: easurement (only be used in 2MHz of b Level 46.5 53.9	=VB=1MHz) RB=1MHz, V if band edge pand edge. Limit 54 74 e	/B=10Hz) signal is Detector	
5308.870 5350 MHz E	96.7 Band Edge S Fundamental Fundamental Calcula Calcula Calcula	H ignal Radiate emission level emission emiss	vel @ 3m in vel @	IMHz RBW: IMHz RBW: er - 100kHz nent (Peak): ement (Avg): MHz/1MHz: IMHz/10Hz: nent (Peak):	PK Rer Delta H 87.0 96.7 45.7 53.9 51.0 38.5 40.1 61.1 56.6	V 99.6 88.7 dB dBuV/m dBuV/m dB dBuV/m dBuV/m	Peak Measu Average Me <- this can of highest with Margin -7.5 -20.1 Using 100kh	RB 1 MHz;\ urement (RB: easurement (only be used in 2MHz of b Level 46.5 53.9 Hz delta valu	=VB=1MHz) RB=1MHz, V if band edge pand edge. Limit 54 74 e	/B=10Hz) signal is Detector	
5308.870 5350 MHz E	96.7 Band Edge S Fundamental Fundamental Calcula Calcula Calcula	H Ignal Radiat emission level emission level ted Band-Edeted Ban	vel @ 3m in vel @	IMHz RBW: IMHz RBW: er - 100kHz nent (Peak): ement (Avg): MHz/1MHz: IMHz/10Hz: nent (Peak): ement (Avg):	PK ker Delta H 87.0 96.7 45.7 53.9 51.0 38.5 40.1 61.1	V 99.6 88.7 dB dBuV/m dBuV/m dB dB dB	Peak Measu Average Me <- this can of highest with Margin -7.5 -20.1 Using 100kk	urement (RB: easurement (only be used in 2MHz of b Level 46.5 53.9 Hz delta valu	=VB=1MHz) RB=1MHz, V if band edge pand edge. Limit 54 74 e	/B=10Hz) signal is Detector Avg	

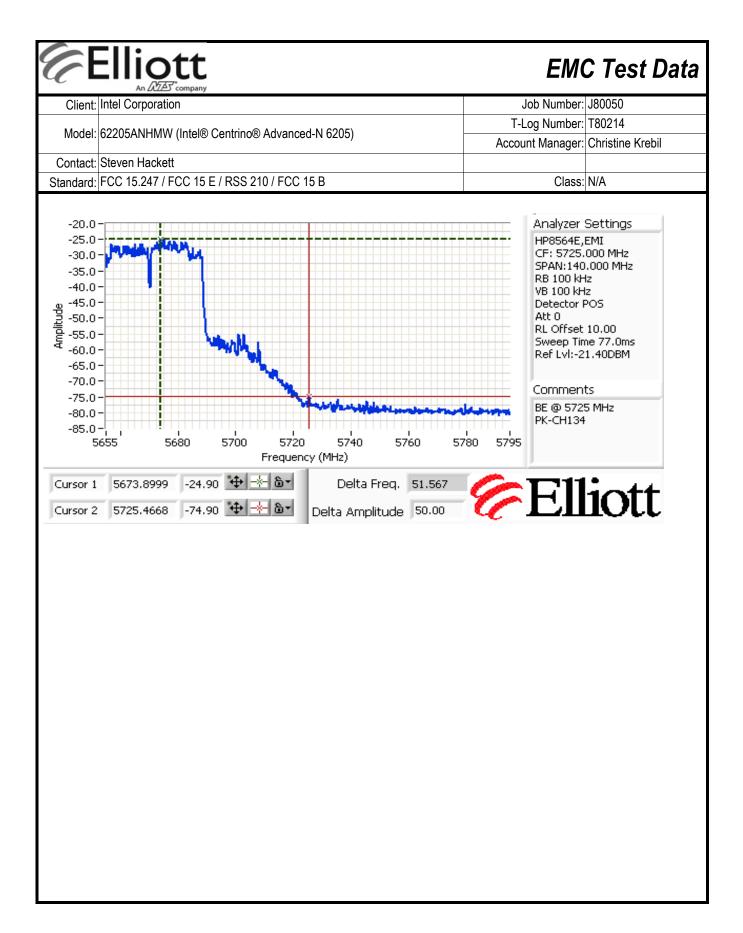


	Intel Corpora	ation						Job Number:	J80050	
							T-	Log Number:	T80214	
Model	62205ANHN	/IW (Intel® C	entrino® Adv	anced-N 620	05)			unt Manager:		ebil
Contact	: Steven Hack	kett					7.000			
	FCC 15.247		/ RSS 210 / F	FCC 15 B				Class:	N/A	
Otaridara		,						0.000.	,,	
Run # 3c, E	EUT on Chan	nel #102 551	10MHz - n 40	MHz, Chain	ı A+B					
					Power	Settings				
		Target	(dBm)			Measur	ed (dBm)		Software	e Setting
Chain	Α	В	С	Total	Α	В	С	Total		
Ondin	12.5	12.5		15.5	12.6	12.4		15.5	24.0	/ 24.0
undamen	tal Signal Fie	eld Strenath								
Frequency		Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
1411 12	αυμν/ιιι				Ŭ					
5505.130	90.8	V	-	-	AVG	142	1.1	RB 1 MHz;\	'B 10 Hz;Pk	
		V	-	-	AVG PK	142 142	1.1		<u>'B 10 Hz;Pk</u> 'B 3 MHz;Pk	
5505.130	90.8		-	- - -					B 3 MHz;Pk	
5505.130 5505.000 5497.930	90.8 101.7	V	- - -	- - -	PK	142	1.1	RB 1 MHz;\\ RB 1 MHz;\\	B 3 MHz;Pk	
5505.130 5505.000 5497.930 5521.130	90.8 101.7 90.0 100.2	V H H	- - gnal Radiate	- - ed Field Stre	PK AVG PK ength - Mark	142 261 261 er Delta V	1.1 1.0 1.0	RB 1 MHz;\\ RB 1 MHz;\\ RB 1 MHz;\\	'B 3 MHz;Pk 'B 10 Hz;Pk 'B 3 MHz;Pk	
5505.130 5505.000 5497.930 5521.130	90.8 101.7 90.0 100.2 Restricted Ba	V H H and Edge Signal emission lev	- g nal Radiate vel @ 3m in s	ed Field Stre	PK AVG PK ength - Marke H 100.2	142 261 261 er Delta V 101.7	1.1 1.0 1.0	RB 1 MHz;\\ RB 1 MHz;\\ RB 1 MHz;\\ RB 1 MHz;\\ urement (RB=	B 3 MHz;Pk /B 10 Hz;Pk /B 3 MHz;Pk	B=10Hz
5505.130 5505.000 5497.930 5521.130	90.8 101.7 90.0 100.2	V H H and Edge Signal emission lev	- gnal Radiate vel @ 3m in vel	ed Field Stre	PK AVG PK ength - Mark	142 261 261 er Delta V 101.7 90.8	1.1 1.0 1.0 Peak Meas Average M	RB 1 MHz;\\ RB 1 MHz;\\ RB 1 MHz;\\ RB 1 MHz;\\ urement (RB: easurement (RB:	/B 3 MHz;Pk /B 10 Hz;Pk /B 3 MHz;Pk =VB=1MHz) RB=1MHz, V	
5505.130 5505.000 5497.930 5521.130	90.8 101.7 90.0 100.2 Restricted Bases Fundamental	V H H and Edge Signal emission lev	- gnal Radiate vel @ 3m in vel	- ed Field Stre 1MHz RBW: 1MHz RBW: er - 100kHz	PK AVG PK ength - Marke H 100.2 90.0	142 261 261 er Delta V 101.7 90.8	1.1 1.0 1.0 Peak Meas Average M	RB 1 MHz;\\ RB 1 MHz;\\ RB 1 MHz;\\ RB 1 MHz;\\ urement (RB=	B 3 MHz;Pk B 10 Hz;Pk B 3 MHz;Pk WB=1MHz;Pk RB=1MHz, V	
5505.130 5505.000 5497.930 5521.130	90.8 101.7 90.0 100.2 Restricted Bases Fundamental Fundamental	V H H and Edge Signal Edge Signal Edge I emission level	- gnal Radiate yel @ 3m in gel	ed Field Stree 1MHz RBW: 1MHz RBW: eer - 100kHz ment (Peak):	PK AVG PK ength - Marke H 100.2 90.0 41.4 60.3	142 261 261 er Delta V 101.7 90.8	1.1 1.0 1.0 Peak Meas Average M	RB 1 MHz;\\ RB 1 MHz;\\ RB 1 MHz;\\ urement (RB= easurement (IO) only be used	B 3 MHz;Pk B 10 Hz;Pk B 3 MHz;Pk WB=1MHz;Pk RB=1MHz, V	signal is
5505.130 5505.000 5497.930 5521.130	90.8 101.7 90.0 100.2 Restricted Bases Fundamental Fundamental	V H H and Edge Si emission lev emission lev ted Band-Ede ated Band-E	- gnal Radiate yel @ 3m in gel		PK AVG PK ength - Marke H 100.2 90.0 41.4 60.3	142 261 261 er Delta V 101.7 90.8 dB dBuV/m dBuV/m	1.1 1.0 1.0 Peak Meas Average M this can highest with	RB 1 MHz;\\ RB 1 MHz;\\ RB 1 MHz;\\ urement (RB: easurement (I) only be used hin 2MHz of b	B 3 MHz;Pk /B 10 Hz;Pk /B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge.	signal is
5505.130 5505.000 5497.930 5521.130	90.8 101.7 90.0 100.2 Restricted Base Fundamental Fundamental Calcula Calcula	V H H and Edge Signary I emission level ted Band-Edge ated Band-Edge Bend-Edge Bend-Ed	gnal Radiate vel @ 3m in vel @	ed Field Stree 1MHz RBW: 1MHz RBW: 1MHz RBW: 1000000000000000000000000000000000000	PK AVG PK ength - Marke H 100.2 90.0 41.4 60.3 49.4 36.3 39.1	142 261 261 er Delta V 101.7 90.8 dB dBuV/m dBuV/m	1.1 1.0 1.0 Peak Meas Average M - this can highest with Margin	RB 1 MHz;\\ RB 1 MHz;\\ RB 1 MHz;\\ urement (RB: easurement (I only be used hin 2MHz of b	B 3 MHz;Pk B 10 Hz;Pk B 3 MHz;Pk WB=1MHz) RB=1MHz, V Word band edge and edge. Limit	signal is
5505.130 5505.000 5497.930 5521.130	90.8 101.7 90.0 100.2 Restricted Base Fundamental Fundamental Calcula Calcula Calcula	V H H H and Edge Signary I emission level I emission level ted Band-Edge ated Band-Edge Delted Delted Band-Edge ted Band-Edge	gnal Radiate yel @ 3m in yel @	and Field Street IMHz RBW: IMHz RBW: IMHz RBW: IMHz - 100kHz IMHz/10Hz: IMHz	PK AVG PK ength - Marke H 100.2 90.0 41.4 60.3 49.4 36.3 39.1 65.4	142 261 261 er Delta V 101.7 90.8 dBuV/m dBuV/m dBuV/m dB dBuV/m	Peak Meas Average M this can highest with Margin -4.6 -13.7 Using 100k	RB 1 MHz;\\ RB 1 MHz;\\ RB 1 MHz;\\ urement (RB=\) easurement (I only be used \) in 2MHz of b Level 49.4 60.3 Hz delta valu	B 3 MHz;Pk B 10 Hz;Pk B 3 MHz;Pk WB=1MHz) RB=1MHz, V Wif band edge and edge. Limit 54 74	signal is Detect Avg
5505.130 5505.000 5497.930 5521.130	90.8 101.7 90.0 100.2 Restricted Base Fundamental Fundamental Calcula Calcula Calcula	V H H and Edge Signary I emission level ted Band-Edge ated Band-Edge Bend-Edge Bend-Ed	gnal Radiate yel @ 3m in yel @	and Field Street IMHz RBW: IMHz RBW: IMHz RBW: IMHz - 100kHz IMHz/10Hz: IMHz	PK AVG PK ength - Marke H 100.2 90.0 41.4 60.3 49.4 36.3 39.1 65.4	142 261 261 V 101.7 90.8 dB dBuV/m dBuV/m dB	Peak Meas Average M this can highest with Margin -4.6 -13.7 Using 100k	RB 1 MHz;\\ RB 1 MHz;\\ RB 1 MHz;\\ urement (RB: easurement (Ionly be used nin 2MHz of b) Level 49.4 60.3	B 3 MHz;Pk B 10 Hz;Pk B 3 MHz;Pk WB=1MHz) RB=1MHz, V Wif band edge and edge. Limit 54 74	signal is Detect Avg
5505.130 5505.000 5497.930 5521.130	90.8 101.7 90.0 100.2 Restricted Base Fundamental Fundamental Calcula Calcula Calcula	V H H H and Edge Signary I emission level I emission level ted Band-Edge ated Band-Edge Delted Delted Band-Edge ted Band-Edge	gnal Radiate yel @ 3m in good 3m	and Field Street IMHz RBW: IMHz RBW: IMHz RBW: IMHz - 100kHz IMHz/10Hz: IMHz	PK AVG PK ength - Marke H 100.2 90.0 41.4 60.3 49.4 36.3 39.1 65.4	142 261 261 er Delta V 101.7 90.8 dBuV/m dBuV/m dBuV/m dB dBuV/m	Peak Meas Average M this can highest with Margin -4.6 -13.7 Using 100k	RB 1 MHz;\\ RB 1 MHz;\\ RB 1 MHz;\\ urement (RB=\) easurement (I only be used \) in 2MHz of b Level 49.4 60.3 Hz delta valu	B 3 MHz;Pk B 10 Hz;Pk B 3 MHz;Pk WB=1MHz) RB=1MHz, V Wif band edge and edge. Limit 54 74	signal is Detect Avg
5505.130 5505.000 5497.930 5521.130	90.8 101.7 90.0 100.2 Restricted Base Fundamental Fundamental Calcula Calcula Calcula	V H H H and Edge Si I emission lev I emission lev ted Band-Ed ated Band-E Delt Delt ted Band-Ed ated Band-Ed ated Band-Ed	gnal Radiate yel @ 3m in good 3m		PK AVG PK ength - Mark 100.2 90.0 41.4 60.3 49.4 36.3 39.1 65.4 51.7	142 261 261 V 101.7 90.8 dB dBuV/m dBuV/m dB dBuV/m dB dBuV/m	1.1 1.0 1.0 1.0 Peak Meas Average M - this can highest witl Margin -4.6 -13.7 Using 100k Using 100k	RB 1 MHz;\\ RB 1 MHz;\\ RB 1 MHz;\\ urement (RB: easurement (I only be used nin 2MHz of b Level 49.4 60.3 Hz delta value Hz delta value	B 3 MHz;Pk B 10 Hz;Pk B 3 MHz;Pk WB=1MHz) RB=1MHz, V Wif band edge and edge. Limit 54 74	signal is Detec Avg





T-Log Number: T80214 Account Manager: Christine Krebil	Model: 62205ANHMW (Intel® Centrino® Advanced-N 6205)	Client:	Intel Corpora	ation						Job Number:	J80050		
Account Manager Christine Krebil Contact Steven Hackett Standard; FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B Class: N/A	Account Manager: Christine Kret												
Contact Steven Hackett Standard; FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B Class; N/A	Steven Hackett Standard: FCC 15.247 FCC 15 E RSS 210 FCC 15 B Class: N/A	Model:	62205ANHM	IW (Intel® C	entrino® Ad	vanced-N 620	05)					ebil	
Class N/A Stundard FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B Class N/A	Standard: FCC 15 247 FCC 15 E RSS 210 FCC 15 B Standard: FCC 15 E RSS 210 FCC 15 B Standard: FCC 15 E RSS 210 FCC 15 B Standard: FCC 15 E RSS 210 FCC 15 B FCC 15 E RSS 210 FCC 15 E FCC 15 E FCC 15 E RSS 210 FCC 15 E FCC 15	Contact	Steven Hack	ett					7.000	ant manager.	CHIIOLII CHI		
Target (dBm)	Run # 3d, EUT on Channel #134 5670MHz - n 40MHz, Chain A+B				/ RSS 210 /	FCC 15 B				Class	N/A		
Power Settings Measured (dBm) Software Setting	Power Settings Reasured (dBm) Software Settings Measured (dBm) Software Settings	Otaridara.	1 00 10.211	7100102	71100 2107	100 10 B				Oldoo.	14// (
Power Settings Measured (dBm) Software Setting	Power Settings Reasured (dBm) Software Settings Measured (dBm) Software Settings	Run # 3d. E	UT on Chan	nel #134 56	70MHz - n 4	0MHz. Chair	n A+B						
Chain A B C Total A B C Total 13.5 13.5 13.5 13.5 13.8 16.7 26.5 undamental Signal Field Strength Frequency Level Pol 15.209 / 15.247 Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5682.800 90.7 V - - AVG 142 1.0 RB 1 MHz;VB 10 Hz;Pk 5682.670 92.3 H - - AVG 263 1.4 RB 1 MHz;VB 10 Hz;Pk 5678.270 101.3 H - - PK 263 1.4 RB 1 MHz;VB 10 Hz;Pk 725 MHz Restricted Band Edge Signal Radiated Field Strength - Marker Delta H V V Peak Measurement (RB=VB=1MHz) Pundamental emission level @ 3m in 1MHz RBW; 92.3 90.7 Average Measurement (RB=1MHz) Peak Measurement emital emission level @	Chain A B C Total A B C Total 13.5 13.5 13.5 13.5 13.8 16.7 26.9 Ferquency Level Pol 15.209 / 15.247 Detector Azimuth Height Comments MHz dBµV/m Pol Limit Margin Pk/QP/Avg degrees meters meters 5682.800 90.7 V - - AVG 142 1.0 RB 1 MHz;VB 10 Hz;Pk 5682.670 92.3 H - - PK 142 1.0 RB 1 MHz;VB 3 MHz;Pk 5678.270 101.3 H - - PK 263 1.4 RB 1 MHz;VB 3 MHz;Pk 725 MHz Restricted Band Edge Signal Radiated Field Strength - Marker Delta H V Fundamental emission level @ 3m in 1MHz RBW: 101.3 100.3 Peak Measurement (RB=VB=1MHz) Fundamental emission level @ 3m in 1MHz RBW: 92.3 90.7 Peak Measurement (RB=1MHz) Average Measurement (RB=1MHz) Calculated Band-Edge Measurement (Peak): 51.3 dBuV/m Hisc can only be used if band edge seal of band edge. Indicated ba					, , , , , , , , , , , , , , , , , , ,		Settings					
13.5	Table Tab			Target	(dBm)			Measur	ed (dBm)		Software Se	etting	
13.5	13.5	Chain			С				С			_	
Tequency Level Pol 15.209 / 15.247 Detector Azimuth Height Comments	Frequency Level Pol 15.209 / 15.247 Detector Azimuth Height Comments		13.5	13.5		16.5	13.5	13.8		16.7	26	i.5	
Tequency Level Pol 15.209 / 15.247 Detector Azimuth Height Comments	Tequency Level Pol 15.209 / 15.247 Detector Azimuth Height Comments		tal Cianal F!-	.l.d. 04u.aa41-									
MHz	MHz dBμV/m V/h Limit Margin Pk/QP/Avg degrees meters					/ 15 247	Detector	Azimuth	Height	Comments			
See See	Seed					T				Committee			
100.3 V - - PK 142 1.0 RB 1 MHz;VB 3 MHz;Pk	10.3 V - - PK 142 1.0 RB 1 MHz;VB 3 MHz;Pk				-	-	_			RB 1 MHz:\	/B 10 Hz:Pk		
H V Fundamental emission level @ 3m in 1MHz RBW: 101.3 H V Fundamental emission level @ 3m in 1MHz RBW: 92.3 90.7 Average Measurement (RB=1MHz, VB=10Hz) Average Measurement (RB=VB=1MHz, VB=10Hz	Fundamental emission level @ 3m in 1MHz RBW: Calculated Band-Edge Measurement (Peak): Calculated Band-Edge Measurement (Avg): Delta Marker - 1MHz/10Hz: Delta Marker - 1MHz/10Hz:				-	-							
Fundamental emission level @ 3m in 1MHz RBW: 101.3	Fundamental emission level @ 3m in 1MHz RBW: 101.3 100.3 Peak Measurement (RB=VB=1MHz, VB Delta Marker - 100kHz Delta Marker - 100kHz Hz Galculated Band-Edge Measurement (Peak): 51.3 dBuV/m Margin Level Limit Delta Marker - 1MHz/10Hz: 44.8 dB -26.0 42.3 68.3 Delta Marker - 1MHz/10Hz: 49.2 dB -37.0 51.3 88.3 Calculated Band-Edge Measurement (Peak): 56.5 dBuV/m Using 100kHz delta value Calculated Band-Edge Measurement (Avg): 43.1 dBuV/m Using 100kHz delta value Using				-	-					•		
Frequency Level Pol FCC 15E Detector Azimuth Height Comments Marker Delta V Delta Marker - 100kHz (Avg): 42.3 dBuV/m V/h Limit Margin Peak Measurement (Avg): 42.3 dBuV/m V/h Limit Margin Peak Measurement (Avg): - Using 100kHz delta value V Delta V Delta V Delta V Delta Marker - 100kHz	725 MHz Restricted Band Edge Signal Radiated Field Strength - Marker DeltaFundamental emission level @ 3m in 1MHz RBW:101.3100.3Peak Measurement (RB=VB=1MHz)Fundamental emission level @ 3m in 1MHz RBW:92.390.7Average Measurement (RB=1MHz, VBDelta Marker - 100kHz50.0 dB this can only be used if band edge sCalculated Band-Edge Measurement (Peak):51.3 dBuV/mhighest within 2MHz of band edge.Calculated Band-Edge Measurement (Avg):42.3 dBuV/mMarginLevelLimitDelta Marker - 1MHz/1MHz:44.8 dB-26.042.368.3Delta Marker - 1MHz/10Hz:49.2 dB-37.051.388.3Calculated Band-Edge Measurement (Peak):56.5 dBuV/mUsing 100kHz delta valueCalculated Band-Edge Measurement (Avg):43.1 dBuV/mUsing 100kHz delta valueFrequencyLevelPolFCC 15EDetectorAzimuthHeightCommentsMHzdBμV/mv/hLimitMarginPk/QP/Avgdegreesmeters				-	-					•		
Fundamental emission level @ 3m in 1MHz RBW: 92.3 90.7 Delta Marker - 100kHz Calculated Band-Edge Measurement (Peak): 51.3 dBuV/m highest within 2MHz of band edge. Calculated Band-Edge Measurement (Avg): 42.3 dBuV/m Margin Level Limit Detection Delta Marker - 1MHz/1MHz: 44.8 dB -26.0 42.3 68.3 Avg Delta Marker - 1MHz/10Hz: 49.2 dB -37.0 51.3 88.3 Pk Calculated Band-Edge Measurement (Peak): 56.5 dBuV/m Using 100kHz delta value Calculated Band-Edge Measurement (Avg): 43.1 dBuV/m Using 100kHz delta value Frequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters F725.466 42.3 - 68.3 -26.0 Avg - Using 100kHz delta value	Fundamental emission level @ 3m in 1MHz RBW: 92.3 90.7 Delta Marker - 100kHz 50.0 dB Calculated Band-Edge Measurement (Peak): 51.3 dBuV/m highest within 2MHz of band edge. Calculated Band-Edge Measurement (Avg): 42.3 dBuV/m Margin Level Limit Delta Marker - 1MHz/1MHz: 44.8 dB -26.0 42.3 68.3 Delta Marker - 1MHz/10Hz: 49.2 dB -37.0 51.3 88.3 Calculated Band-Edge Measurement (Peak): 56.5 dBuV/m Using 100kHz delta value Calculated Band-Edge Measurement (Avg): 43.1 dBuV/m Using 100kHz delta value Calculated Band-Edge Measurement (Avg): 43.1 dBuV/m Using 100kHz delta value Frequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m V/h Limit Margin Pk/QP/Avg degrees meters						Н	V	Peak Meas	urement (RB	=VB=1MHz)		
Calculated Band-Edge Measurement (Peak): Calculated Band-Edge Measurement (Avg): Calculated Band-Edge Measurement (Avg): Delta Marker - 1MHz/1MHz: Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters Calculated Band-Edge Measurement (Peak): Tequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters Tequency Level Pol FCC 15E Detector Avg degrees meters Tequency Level Pol FCC 15E Detector Avg degrees meters	Calculated Band-Edge Measurement (Peak):51.3 dBuV/mhighest within 2MHz of band edge.Calculated Band-Edge Measurement (Avg):42.3 dBuV/mMarginLevelLimitDelta Marker - 1MHz/1MHz:44.8 dB-26.042.368.3Delta Marker - 1MHz/10Hz:49.2 dB-37.051.388.3Calculated Band-Edge Measurement (Peak):56.5 dBuV/mUsing 100kHz delta valueCalculated Band-Edge Measurement (Avg):43.1 dBuV/mUsing 100kHz delta valueFrequencyLevelPolFCC 15EDetectorAzimuthHeightCommentsMHzdBμV/mv/hLimitMarginPk/QP/Avgdegreesmeters							90.7		•	,	B=10Hz)	
Calculated Band-Edge Measurement (Avg): 42.3 dBuV/m Margin Level Limit Detection Delta Marker - 1MHz/1MHz: 44.8 dB -26.0 42.3 68.3 Avg Delta Marker - 1MHz/10Hz: 49.2 dB -37.0 51.3 88.3 Pk Calculated Band-Edge Measurement (Peak): 56.5 dBuV/m Using 100kHz delta value Calculated Band-Edge Measurement (Avg): 43.1 dBuV/m Using 100kHz delta value Frequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5725.466 42.3 - 68.3 -26.0 Avg - Using 100kHz delta value	Calculated Band-Edge Measurement (Avg): 42.3 dBuV/m Margin Level Limit Delta Marker - 1MHz/1MHz: 44.8 dB -26.0 42.3 68.3 Delta Marker - 1MHz/10Hz: 49.2 dB -37.0 51.3 88.3 Calculated Band-Edge Measurement (Peak): 56.5 dBuV/m Using 100kHz delta value Calculated Band-Edge Measurement (Avg): 43.1 dBuV/m Using 100kHz delta value Frequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters				Delta Mark	ker - 100kHz	50.0	dB	<- this can	only be used	if band edge	signal is	
Delta Marker - 1MHz/1MHz:44.8 dB-26.042.368.3AvgDelta Marker - 1MHz/10Hz:49.2 dB-37.051.388.3PkCalculated Band-Edge Measurement (Peak):56.5 dBuV/mUsing 100kHz delta valueCalculated Band-Edge Measurement (Avg):43.1 dBuV/mUsing 100kHz delta valueFrequencyLevelPolFCC 15EDetectorAzimuthHeightCommentsMHzdBμV/mv/hLimitMarginPk/QP/Avgdegreesmeters5725.46642.3-68.3-26.0AvgUsing 100kHz delta value	Delta Marker - 1MHz/1MHz:44.8 dB-26.042.368.3Delta Marker - 1MHz/10Hz:49.2 dB-37.051.388.3Calculated Band-Edge Measurement (Peak):56.5 dBuV/mUsing 100kHz delta valueCalculated Band-Edge Measurement (Avg):43.1 dBuV/mUsing 100kHz delta valueFrequencyLevelPolFCC 15EDetectorAzimuthHeightCommentsMHzdBμV/mv/hLimitMarginPk/QP/Avgdegreesmeters						51.3	dBuV/m	highest with	nin 2MHz of b	and edge.		
Delta Marker - 1MHz/10Hz:49.2 dB-37.051.388.3PkCalculated Band-Edge Measurement (Peak):56.5 dBuV/mUsing 100kHz delta valueCalculated Band-Edge Measurement (Avg):43.1 dBuV/mUsing 100kHz delta valueFrequencyLevelPolFCC 15EDetectorAzimuthHeightCommentsMHzdBμV/mv/hLimitMarginPk/QP/Avgdegreesmeters5725.46642.3-68.3-26.0AvgUsing 100kHz delta value	Delta Marker - 1MHz/10Hz: 49.2 dB -37.0 51.3 88.3 Calculated Band-Edge Measurement (Peak): 56.5 dBuV/m Using 100kHz delta value Calculated Band-Edge Measurement (Avg): 43.1 dBuV/m Using 100kHz delta value Frequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters		Calcula	ated Band-E	dge Measur	ement (Avg):	42.3	dBuV/m	Margin	Level	Limit	Detect	
Calculated Band-Edge Measurement (Peak): 56.5 dBuV/m Using 100kHz delta value Using 100kHz delta value Using 100kHz delta value Frequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5725.466 42.3 - 68.3 -26.0 Avg - Using 100kHz delta value	Calculated Band-Edge Measurement (Peak): 56.5 dBuV/m Using 100kHz delta value Using 100kHz delta value Using 100kHz delta value Frequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m V/h Limit Margin Pk/QP/Avg degrees meters						44.8	dB	-26.0	42.3	68.3	Avg	
Calculated Band-Edge Measurement (Avg): 43.1 dBuV/m Using 100kHz delta value Frequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5725.466 42.3 - 68.3 -26.0 Avg - Using 100kHz delta value	Calculated Band-Edge Measurement (Avg): 43.1 dBuV/m Using 100kHz delta value Frequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters											Pk	
Frequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5725.466 42.3 - 68.3 -26.0 Avg Using 100kHz delta value	Frequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters												
MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5725.466 42.3 - 68.3 -26.0 Avg - - Using 100kHz delta value	MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters		Calcula	ated Band-E	dge Measur	ement (Avg):	43.1	dBuV/m	Using 100k	Hz delta valu	е		
MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5725.466 42.3 - 68.3 -26.0 Avg - - Using 100kHz delta value	MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters		l evel	Pol	FCC	C 15E	Detector	Azimuth	Height	Comments			
5725.466 42.3 - 68.3 -26.0 Avg Using 100kHz delta value		reguency				.5.				Johnnerits			
								-	-	Using 100kl	Hz delta valu	e	
	lote - average limit is equivalent to -27dBm eirp.	MHz							•				
		MHz 5725.466	42.3		27dBm eirp.								



Elliott	EII	liott
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	All Death Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANT INVV (ITTER® CERTIFIC® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 4, Band Edge Field Strength - n 20MHz, Chain A Run # 4a, EUT on Channel #36 5180MHz - n 20MHz, Chain A

Date of Test: 8/5/2010 Test Location: Chamber #3
Test Engineer: David W. Bare Config Change: none

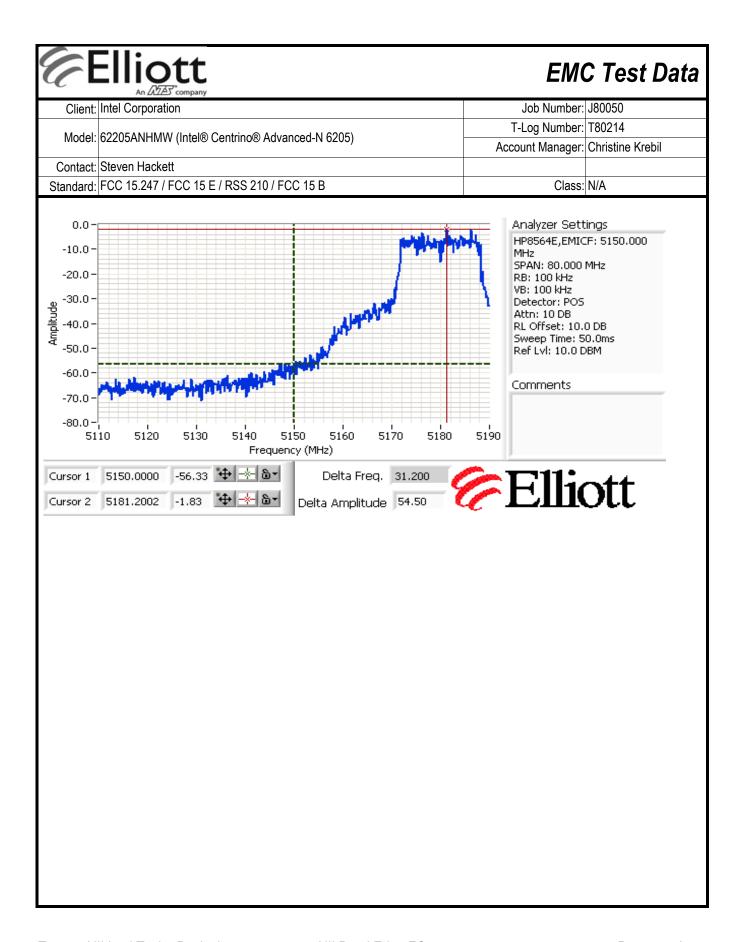
		Power Settings	
	Target (dBm)	Measured (dBm)	Software Setting
Chain A	15.5	15.5	19.5

Fundamental Signal Field Strength

Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5181.390	93.3	Η	-	-	AVG	256	1.4	RB 1 MHz;VB 10 Hz;Pk
5178.770	101.5	Η	-	-	PK	256	1.4	RB 1 MHz;VB 3 MHz;Pk
5181.300	92.6	V	-	-	AVG	106	1.4	RB 1 MHz;VB 10 Hz;Pk
5178.720	101.0	V	-	-	PK	106	1.4	RB 1 MHz;VB 3 MHz;Pk

man na mana bana baga ang man manata an ana an ang an ang an an ang a	=					
	Н	V				
Fundamental emission level @ 3m in 1MHz RBW:	101.5	101.0	Peak Measi	urement (RB=	VB=1MHz)	
Fundamental emission level @ 3m in 1MHz RBW:	93.3	92.6	Average Measurement (RB=1MHz, VB=10H			
Delta Marker - 100kHz	54.5	dB	<- this can o	only be used i	f band edge	signal is
Calculated Band-Edge Measurement (Peak):				in 2MHz of b	and edge.	
Calculated Band-Edge Measurement (Avg):	38.8 dBuV/m		Margin	Level	Limit	Detector
Delta Marker - 1MHz/1MHz:	47.3	dB	-15.2	38.8	54	Avg
Delta Marker - 1MHz/10Hz:	48.5 dB		-27.0	47.0	74	Pk
Calculated Band-Edge Measurement (Peak):	54.2 dBuV/m		Using 100kHz delta value			
Calculated Band-Edge Measurement (Avg):	44.8	dBuV/m	Using 100kl	Hz delta value	Э	
Frequency Level Pol FCC 15 209	Detector	∆zimuth.	Height	Comments		

Frequency	Level	Pol	FCC '	15.209	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5150.000	38.8	-	54.0	-15.2	Avg	-	-	Using 100kHz delta value



6)tt						EMO	C Test	Data
Client ⁻	: Intel Corpora	ation					,	Job Number:	J80050	
							T-l	Log Number:	T80214	
Model:	62205ANHW	MW (Intel® Ce	entrino® Adv	anced-N 620		unt Manager:		ebil		
Contact ⁻	: Steven Hack	kett								
Standard: FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B							Class: N/A			
		nnel #64 5320	0MHz - n 201	MHz, Chain	A					
	Date of Test:						Chamber #3	}		
Τe	st Engineer:	David W. Ba	ıre			nfig Change:	none		•	
	ļ		1 _		Power S					
	ļ			t (dBm)	Measure	` '		e Setting		
	ļ	Chain A	16	6.0	15	.9	21.5			
Fundamen	tal Signal Fie									
Frequency	·	Pol		/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg		meters			
5318.540	94.7	Н	100.0	-5.3	AVG	257	1.4	RB 1 MHz;V		
5318.830	103.2	Н	70.0	33.2	PK	257	1.4	RB 1 MHz;V		
5321.330	95.2	V	100.0	-4.8	AVG	154	1.2	RB 1 MHz;V	•	
5318.790	103.5	V	70.0	33.5	PK	154	1.2	RB 1 MHz;V	/B 3 MHz;Pk	
5350 MHz I	3and Edge S	Signal Radiat	ted Fi <u>eld St</u> r	ength <u> - Mar</u>	ker Delta					
					Н	V]			
		al emission lev				103.5	Peak Measurement (RB=VB=1MHz)			
	Fundamental	al emission lev	/el @ 3m in /	IMHz RBW:		95.2	Average Measurement (RB=1MHz, VB=10Hz			,
				ker - 100kHz	V			only be used i		signal is
		ated Band-Edo				dBuV/m	highest withi Margin	highest within 2MHz of band edge.		
<u></u>	Calcul	lated Band-Ed		(0,		40.4 dBuV/m		Level	Limit	Detector
			ta Marker - 1		48.2	-	-13.6	40.4	54	Avg
<u> </u>			lta Marker - 1		50.0 dB					Pk
<u> </u>		ated Band-Edg				dBuV/m	Using 100kHz delta value			
<u> </u>	Calcul	lated Band-Ed	dge Measure	:ment (Avg):	45.2	dBuV/m	Using 100kh	Hz delta value	Э	
Frequency	Level	Pol	FCC	15.209	Detector	Azimuth	Height	Comments		

dBμV/m

40.4

v/h

Limit

54.0

МНz

5350.267

Pk/QP/Avg

Avg

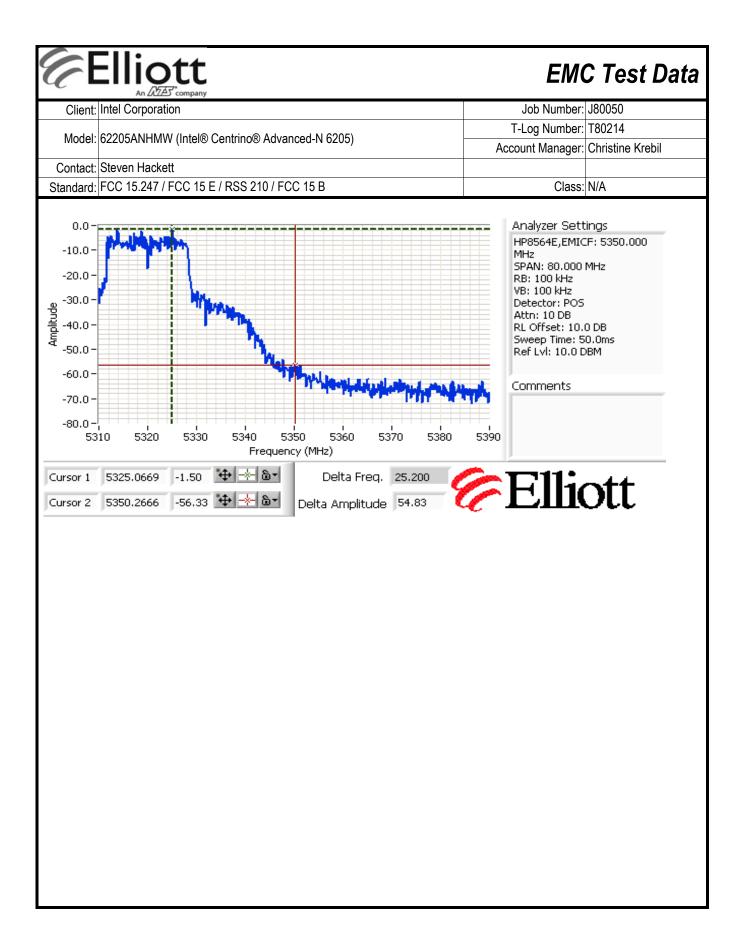
degrees

meters

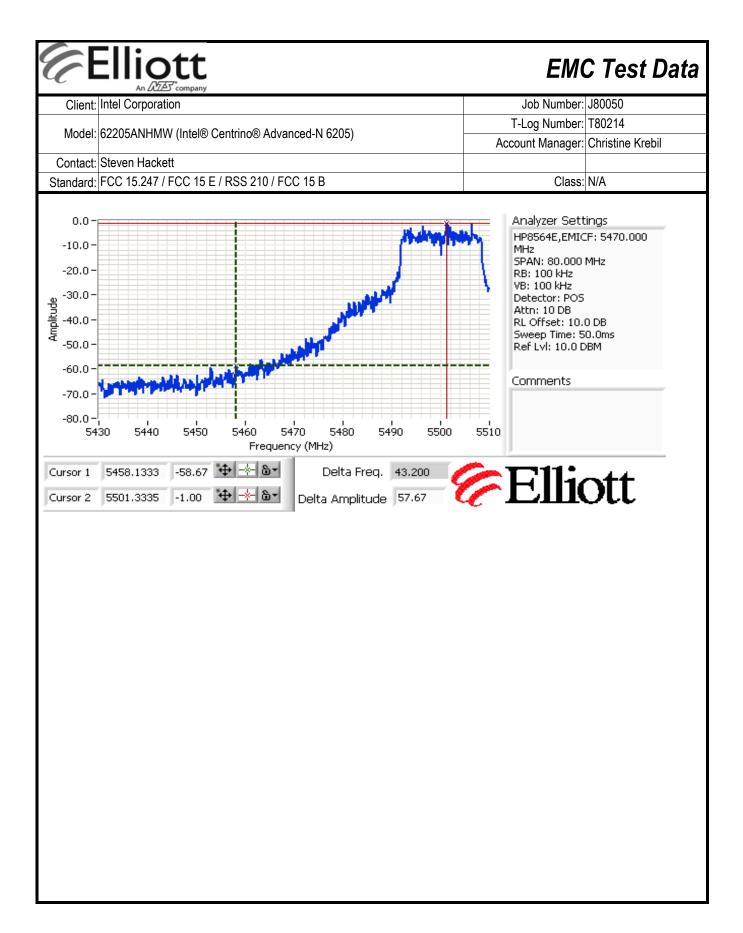
Using 100kHz delta value

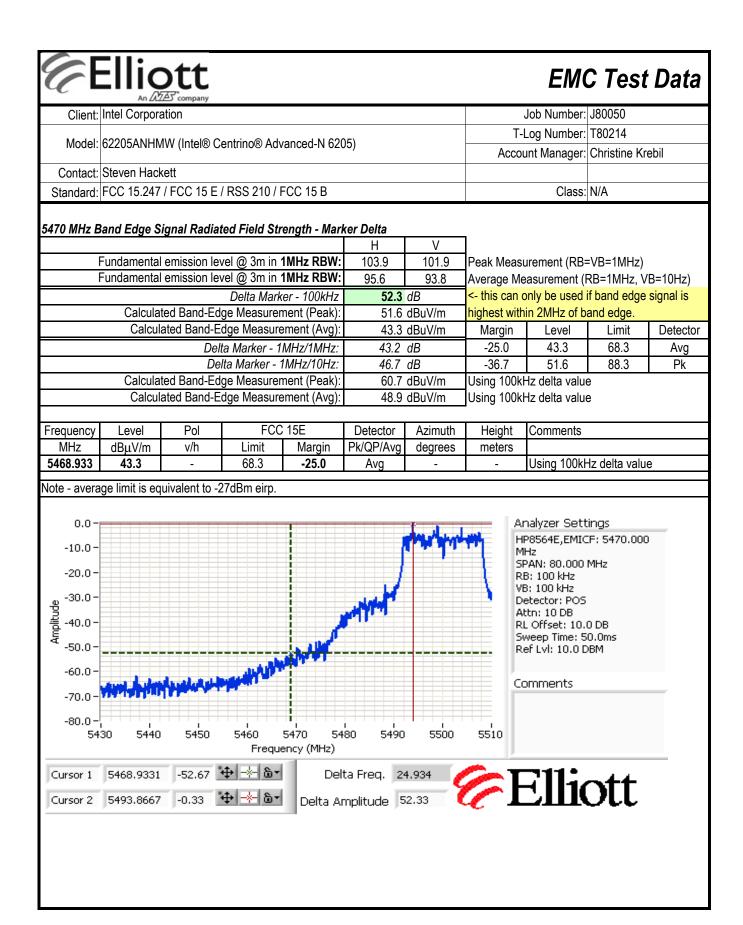
Margin

-13.6

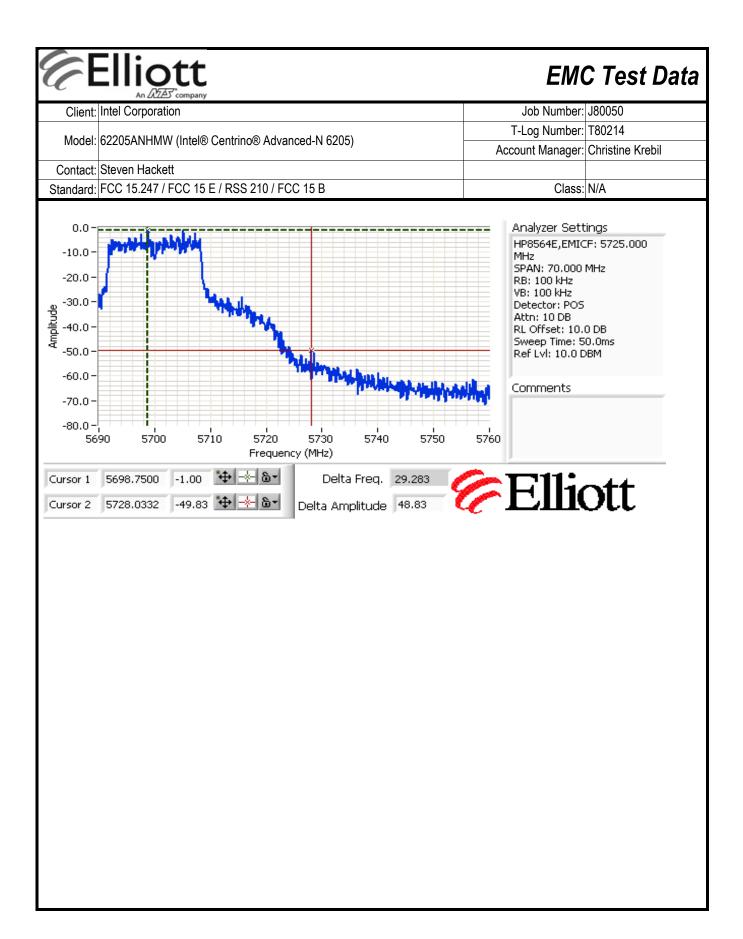


Model:		ation						Job Number:		
Wiodoi.	62205ANHM	1W (Intel® Cα	entrino® Adv			Log Number:				
	022007 (1 11 11)	(III.OIO OC	onumo o nav	411004 11 02			Acco	Account Manager: Christine Krel		
	Steven Hack									
Standard:	FCC 15.247	/ FCC 15 E /	RSS 210 / F	-CC 15 B			Class: N/A			
)un#4c F	UT on Chan	nal #100 55(MHz Chain	. ^					
uii # 40, E	OT OIL CHAIN	nei # 100 550	JUIVINZ - II ZU	JIVINZ, CHAII	Power S	Settinas				
			Target	(dBm)	Measured (dBm)		Software Setting			
	•	Chain A		6.5	16	/	24.0			
	L	•			-		-		•	
	tal Signal Fie		45.000	145.047			T	la .		
requency		Pol		15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	DD 4 MIL V	/D 40 LL DL	
5498.500	95.6	Н	-	-	AVG	260	1.3	RB 1 MHz;V		
5498.810	103.9	H V	-	-	PK	260	1.3	RB 1 MHz;V		
			_	-	AVG	107	1.0	RB 1 MHz;V		
5501.080	93.8 101.9 Restricted Ba	V	- gnal Radiate	- ed Field Stre	PK	107 er Delta	1.0	RB 1 MHz;V	'B 3 MHz;Pk	
5501.080 460 MHz F	101.9 Restricted Ba Fundamental	V and Edge Signer emission lev	gnal Radiate	ed Field Stre	PK ength - Marke H 103.9	er Delta V 101.9	Peak Meas	urement (RB=	=VB=1MHz)	
5501.080 460 MHz F	101.9 Restricted Ba	V and Edge Signer emission lev	gnal Radiate vel @ 3m in v	ed Field Stre 1MHz RBW: 1MHz RBW:	PK ength - Marke H 103.9 95.6	er Delta V 101.9 93.8	Peak Meas Average Me	urement (RB= easurement (F	=VB=1MHz) RB=1MHz, VI	
5501.080 460 MHz F	101.9 Restricted Ba Fundamental Fundamental	V and Edge Sig emission lev emission lev	gnal Radiate vel @ 3m in vel @ 3m in vel @ 3m in vel @ 3m in vel	ed Field Stre 1MHz RBW: 1MHz RBW: er - 100kHz	PK ength - Marke H 103.9 95.6 57.7	v 101.9 93.8 dB	Peak Meas Average Me	urement (RB= easurement (F only be used i	-VB=1MHz) RB=1MHz, VI if band edge	
5501.080 460 MHz I	101.9 Restricted Ba Fundamental Fundamental Calculat	V and Edge Sig emission lev emission lev ted Band-Edge	gnal Radiate vel @ 3m in vel @ 3m in vel @ 3m in vel @ 3m in vel pelta Mark ge Measurer	ed Field Stree 1MHz RBW: 1MHz RBW: er - 100kHz nent (Peak):	PK ength - Marke H 103.9 95.6 57.7 46.2	v 101.9 93.8 dB dBuV/m	Peak Measi Average Me <- this can o	urement (RB= easurement (F only be used i nin 2MHz of b	=VB=1MHz) RB=1MHz, VI If band edge and edge.	signal is
5501.080 460 MHz I	101.9 Restricted Ba Fundamental Fundamental Calculat	V and Edge Signard Edge Signard Edge Edge Edge Edge Edge Edge Edge Edg	gnal Radiate yel @ 3m in yel @	ed Field Stree IMHz RBW: IMHz RBW: er - 100kHz erent (Peak): ement (Avg):	PK ength - Marke H 103.9 95.6 57.7 46.2 37.9	er Delta V 101.9 93.8 dB dBuV/m dBuV/m	Peak Mease Average Me <- this can o highest with Margin	urement (RB= easurement (F only be used in 2MHz of both Level	=VB=1MHz) RB=1MHz, VI If band edge and edge. Limit	signal is Detect
5501.080 460 MHz F	101.9 Restricted Ba Fundamental Fundamental Calculat	V and Edge Signard Edge Signard Edge Emission lever Edge Edge Edge Edge Edge Edge Edge Edge	gnal Radiate yel @ 3m in yel	ed Field Stree 1MHz RBW: 1MHz RBW: er - 100kHz nent (Peak): ement (Avg): MHz/1MHz:	PK ength - Marke H 103.9 95.6 57.7 46.2 37.9 50.8	v 101.9 93.8 dB dBuV/m dBuV/m	Peak Meas Average Me <- this can o highest with Margin -16.1	urement (RB= easurement (F only be used in 2MHz of both Level 37.9	=VB=1MHz) RB=1MHz, VI if band edge and edge. Limit 54	Detect Avg
5501.080 460 MHz F	101.9 Restricted Ba Fundamental Fundamental Calculat Calculat	V and Edge Sig emission lev emission lev ted Band-Edg ated Band-Ed	gnal Radiate rel @ 3m in rel @	ed Field Stree 1MHz RBW: 1MHz RBW: er - 100kHz nent (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz:	PK ength - Marke H 103.9 95.6 57.7 46.2 37.9 50.8 53.7	er Delta V 101.9 93.8 dB dBuV/m dBuV/m dB	Peak Meass Average Me <- this can of highest with Margin -16.1 -27.8	urement (RB= easurement (F only be used in 2MHz of but Level 37.9 46.2	=VB=1MHz) RB=1MHz, VI If band edge and edge. Limit 54 74	signal is Detect
5501.080 460 MHz I	101.9 Restricted Ba Fundamental Fundamental Calculat Calculat	V and Edge Signard Edge Signard Edge Emission lever Edge Edge Edge Edge Edge Edge Edge Edge	gnal Radiate yel @ 3m in yel @ 4m	ad Field Street IMHz RBW: IMHz RBW: er - 100kHz nent (Peak): ement (Avg): IMHz/1MHz: IMHz/10Hz: nent (Peak):	PK ength - Marke H 103.9 95.6 57.7 46.2 37.9 50.8 53.7 53.1	v 101.9 93.8 dB dBuV/m dBuV/m	Peak Measi Average Me <- this can of highest with Margin -16.1 -27.8 Using 100k	urement (RB= easurement (F only be used in 2MHz of both Level 37.9	=VB=1MHz) RB=1MHz, Vi if band edge and edge. Limit 54 74	Detect Avg
	101.9 Restricted Ba Fundamental Fundamental Calculat Calculat	emission level emission emissi	gnal Radiate yel @ 3m in yel @ 4m	ed Field Street IMHz RBW: IMHz RBW: er - 100kHz nent (Peak): ement (Avg): IMHz/10Hz: IMHz/10Hz: ement (Peak): ement (Avg):	PK ength - Marke H 103.9 95.6 57.7 46.2 37.9 50.8 53.7 53.1	er Delta V 101.9 93.8 dB dBuV/m dBuV/m dB dBuV/m dB dBuV/m dB	Peak Mease Average Me <- this can of highest with Margin -16.1 -27.8 Using 100kd	urement (RB= easurement (F only be used in 2MHz of both Level 37.9 46.2 Hz delta value	=VB=1MHz) RB=1MHz, Vi if band edge and edge. Limit 54 74	Detect Avg
5501.080 460 MHz F	101.9 Restricted Ba Fundamental Fundamental Calculat Calculat Calculat Calculat	emission lever emission emissi	rel @ 3m in rel @	ad Field Stree IMHz RBW: IMHz RBW: er - 100kHz nent (Peak): ement (Avg): IMHz/10Hz: nent (Peak): ement (Avg): ement (Avg):	PK ength - Marke H 103.9 95.6 57.7 46.2 37.9 50.8 53.7 53.1 41.9 Detector	er Delta V 101.9 93.8 dB dBuV/m dBuV/m dBuV/m dB dB dBuV/m dBuV/m dBuV/m	Peak Meass Average Me this can of highest with Margin16.127.8 Using 100k Height	urement (RB= easurement (R conly be used in 2MHz of both Level 37.9 46.2 Hz delta value	=VB=1MHz) RB=1MHz, Vi if band edge and edge. Limit 54 74	Signal is Detect Avg
5501.080 460 MHz F	Tone Tone Tone Tone Tone Tone Tone Tone	emission level emission emissi	gnal Radiate yel @ 3m in yel @ 4m	ed Field Street IMHz RBW: IMHz RBW: er - 100kHz nent (Peak): ement (Avg): IMHz/10Hz: IMHz/10Hz: ement (Peak): ement (Avg):	PK ength - Marke H 103.9 95.6 57.7 46.2 37.9 50.8 53.7 53.1 41.9	er Delta V 101.9 93.8 dB dBuV/m dBuV/m dB dBuV/m dB dBuV/m dB	Peak Mease Average Me <- this can of highest with Margin -16.1 -27.8 Using 100kd	urement (RB= easurement (F only be used in 2MHz of but Level 37.9 46.2 Hz delta value Hz delta value	=VB=1MHz) RB=1MHz, Vi if band edge and edge. Limit 54 74	Detect Avg Pk





		OTT						EMO	C Test	Dat
Client:	Intel Corpora	ation	_	_				Job Number:	J80050	
Madali	2000E A NILIN/	*** /!t-l@ C	1 : A A do		^-\		T-	Log Number:	T80214	
Mouei.	62205ANHM	W (Intel® Ce	antrinow Auv	ancea-iv o∠u	J5)			unt Manager:		ebil
Contact: Steven Hackett										
Standard: FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B								Class:	N/A	
	Oben	1 "4 40 E7(Obein	_					
Run # 4a, ∟	UT on Chanı آ	nel #140 5/0)0MHz - n 2u)MHz, Chain	Power S	Settings			l	
	[.	Target	(dBm)	Measure	-	I Softwar	e Setting		
	Ī	Chain A		6.5	16.4		25.5			
	tal Signal Fie Level	eld Strength Pol		/ 15.247	Detector	Azimuth	Height	Comments		
Frequency	Level	Pol		1				Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	1		
5698.500	96.0	Н	-	- !	AVG	259	1.4	RB 1 MHz;VB 10 Hz;Pk		
5698.710 5698.520	104.7 93.6	H V	-	-	PK AVG	259 149	1.4 1.0		B 3 MHz;Pk	
	102.0	V	-	-	PK	149	1.0	RB 1 MHz;VB 10 Hz;Pk RB 1 MHz;VB 3 MHz;Pk		
							1	1 LD 1	D 0 1111,.	
5698.670	<u> </u>		:= "							
5698.670	Restricted Ba	ınd Edge Sig	gnal Radiate	ed Field Stre			7			
5698.670 5 725 MHz R	Restricted Ba				Н	V	Peak Meas	urement (RR:	=\/R=1MHz)	
5698.670 5 725 MHz R	<u> </u>	emission lev	vel @ 3m in 1	1MHz RBW:	H 104.7		-	urement (RB= easurement (I		B=10Hz)
5698.670 5 725 MHz R	Restricted Ba	emission lev	vel @ 3m in 1 vel @ 3m in 1	1MHz RBW:	H 104.7	V 102.0 93.6	Average Me	urement (RB= easurement (I	RB=1MHz, V	
5698.670 5 725 MHz R	Restricted Ba Fundamental Fundamental Calculat	emission level emission	vel @ 3m in 1 vel @ 3m in 1 Delta Marki ge Measuren	1MHz RBW: 1MHz RBW: ter - 100kHz ment (Peak):	H 104.7 96.0 48.8	V 102.0 93.6	Average Me	easurement (I	RB=1MHz, V if band edge	
5698.670 5725 MHz R	Restricted Ba Fundamental Fundamental Calculat	emission lev emission lev ted Band-Ed ated Band-Ed	vel @ 3m in 1 vel @ 3m in 1 Delta Marki ge Measuren dge Measure	1MHz RBW: 1MHz RBW: ter - 100kHz ment (Peak): ement (Avg):	H 104.7 96.0 48.8 55.9	V 102.0 93.6 dB	Average Me	easurement (Fools) be used	RB=1MHz, V if band edge	signal is
5698.670 5725 MHz R	Restricted Ba Fundamental Fundamental Calculat	emission lev emission lev ted Band-Ed ated Band-Ed	vel @ 3m in 1 vel @ 3m in 1 Delta Marki ge Measuren dge Measure ta Marker - 11	1MHz RBW: 1MHz RBW: 1MHz RBW: xer - 100kHz ment (Peak): ement (Avg): MHz/1MHz:	H 104.7 96.0 48.8 55.9 47.2 46.8	V 102.0 93.6 dB dBuV/m dBuV/m	Average Me <- this can of highest with Margin -21.1	easurement (I only be used in 2MHz of b Level 47.2	RB=1MHz, V if band edge and edge. Limit 68.3	signal is Detect Avg
5698.670 5725 MHz R	Restricted Ba Fundamental Fundamental Calculat Calcula	emission lev emission lev ted Band-Edg ated Band-Ed Delt	vel @ 3m in 1 vel @ 3m in 1 Delta Marki ge Measuren dge Measure ta Marker - 1 Ita Marker - 1	1MHz RBW: 1MHz RBW: 1MHz RBW: 1000 MHz 1000 MHz/1MHz: 1MHz/10Hz:	H 104.7 96.0 48.8 55.9 47.2 46.8 45.0	V 102.0 93.6 dB dBuV/m dBuV/m dB	Average Me this can o highest with Margin -21.1 -32.4	easurement (I conly be used ain 2MHz of b Level 47.2 55.9	RB=1MHz, Vificulty band edge and edge. Limit 68.3 88.3	signal is
5698.670 5725 MHz R	Restricted Ba Fundamental Fundamental Calculat Calculat Calculat	emission lev emission lev ted Band-Edg ated Band-Ecc Delt Del ted Band-Edg	vel @ 3m in 1 vel @ 3m in 1 Delta Marke ge Measuren dge Measure ta Marker - 11 Ita Marker - 1 ge Measuren	1MHz RBW: 1MHz RBW: 1MHz RBW: 1MHz - 100kHz 1MHz (Peak): 1MHz/1MHz: 1MHz/10Hz: 1MHz/10Hz: 1MHz/10Hz:	H 104.7 96.0 48.8 55.9 47.2 46.8 45.0 57.9	V 102.0 93.6 dB dBuV/m dBuV/m dB dB dBuV/m	Average Me this can of highest with Margin -21.1 -32.4 Using 100k	easurement (I conly be used to the poly be use	RB=1MHz, Vificular band edge and edge. Limit 68.3 88.3	signal is Detect Avg
5698.670 5725 MHz R	Restricted Ba Fundamental Fundamental Calculat Calculat Calculat	emission lev emission lev ted Band-Edg ated Band-Ecc Delt Del ted Band-Edg	vel @ 3m in 1 vel @ 3m in 1 Delta Marki ge Measuren dge Measure ta Marker - 1 Ita Marker - 1	1MHz RBW: 1MHz RBW: 1MHz RBW: 1MHz - 100kHz 1MHz (Peak): 1MHz/1MHz: 1MHz/10Hz: 1MHz/10Hz: 1MHz/10Hz:	H 104.7 96.0 48.8 55.9 47.2 46.8 45.0 57.9	V 102.0 93.6 dB dBuV/m dBuV/m dB dB dBuV/m	Average Me this can of highest with Margin -21.1 -32.4 Using 100k	easurement (I conly be used ain 2MHz of b Level 47.2 55.9	RB=1MHz, Vificular band edge and edge. Limit 68.3 88.3	signal is Detect Avg
5698.670 5725 MHz R	Restricted Ba Fundamental Fundamental Calculat Calculat Calculat	emission lev emission lev ted Band-Edg ated Band-Ecc Delt Del ted Band-Edg	vel @ 3m in 1 vel @ 3m in 1 Delta Marke ge Measuren dge Measure ta Marker - 11 Ita Marker - 1 ge Measuren dge Measuren	1MHz RBW: 1MHz RBW: 1MHz RBW: Mer - 100kHz ment (Peak): 1MHz/1MHz: 1MHz/10Hz: ment (Peak): 1MHz/10Hz: 1MHz/10Hz:	H 104.7 96.0 48.8 55.9 47.2 46.8 45.0 57.9	V 102.0 93.6 dB dBuV/m dBuV/m dB dB dBuV/m	Average Me this can of highest with Margin -21.1 -32.4 Using 100k	easurement (I conly be used to the poly be use	RB=1MHz, Vificular band edge and edge. Limit 68.3 88.3	signal is Detect Avg
5698.670 5725 MHz R	Fundamental Fundamental Calculat Calculat Calculat Calculat	emission lev emission lev ted Band-Edg ated Band-Ed Delt Del ted Band-Edg ated Band-Edg ated Band-Edg	vel @ 3m in 1 vel @ 3m in 1 Delta Marke ge Measuren dge Measure ta Marker - 11 Ita Marker - 1 ge Measuren dge Measuren	1MHz RBW: 1MHz RBW: 1MHz RBW: Mer - 100kHz ment (Peak): ement (Avg): 1MHz/1MHz: 1MHz/10Hz: ment (Peak): ement (Avg):	H 104.7 96.0 48.8 55.9 47.2 46.8 45.0 57.9 51.0	V 102.0 93.6 dB dBuV/m dBuV/m dB dB dBuV/m dBuV/m	Average Me this can of highest with Margin21.132.4 Using 100k	easurement (I conly be used to the poly be use	RB=1MHz, Vificular band edge and edge. Limit 68.3 88.3	Detect Avg Pk



Elliott

	All Dear Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANT INVV (ITTER® CERTIFIC® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 5, Band Edge Field Strength - n 20MHz, Chain B Run # 5a, EUT on Channel #36 5180MHz - n 20MHz, Chain B

Date of Test: 8/5/2010 Test Location: Chamber #3
Test Engineer: David W. Bare Config Change: none

٠.	Davia VV. Daio	'	coming change.	110110
			Power Settings	
		Target (dBm)	Measured (dBm)	Software Setting
	Chain B	15.5	15.6	19.5

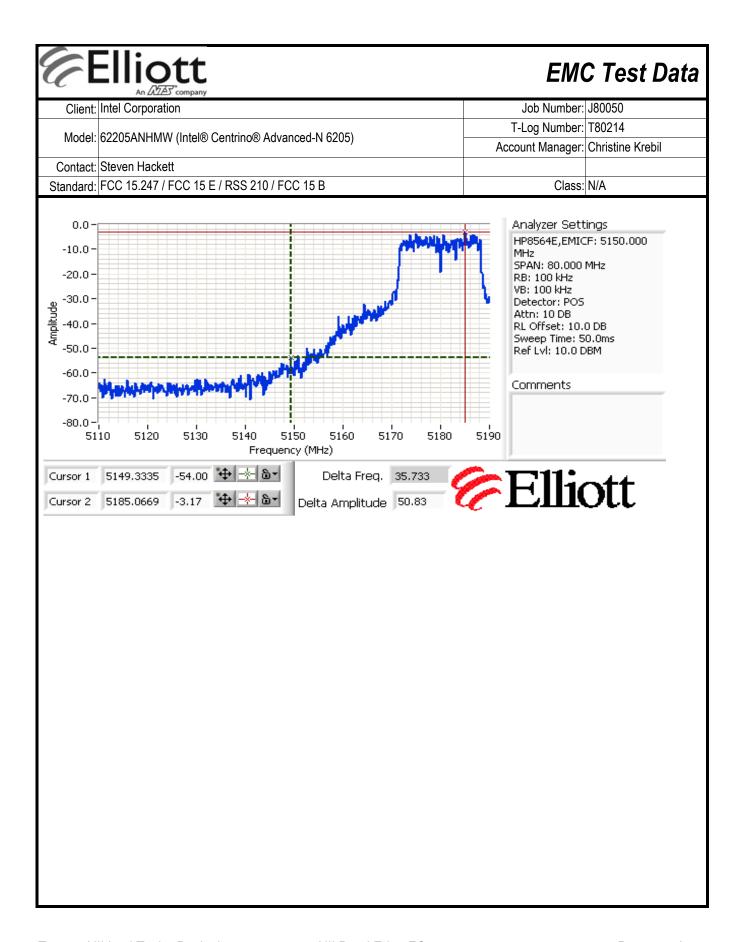
Fundamental Signal Field Strength

• • • • • • • • • • • • • • • • • • • •								
Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5180.990	94.6	Н	100.0	-5.4	AVG	143	1.4	RB 1 MHz;VB 10 Hz;Pk
5180.420	104.5	Н	70.0	34.5	PK	143	1.4	RB 1 MHz;VB 3 MHz;Pk
5181.210	96.0	V	100.0	-4.0	AVG	161	1.0	RB 1 MHz;VB 10 Hz;Pk
5180.560	105.9	V	70.0	35.9	PK	161	1.0	RB 1 MHz;VB 3 MHz;Pk

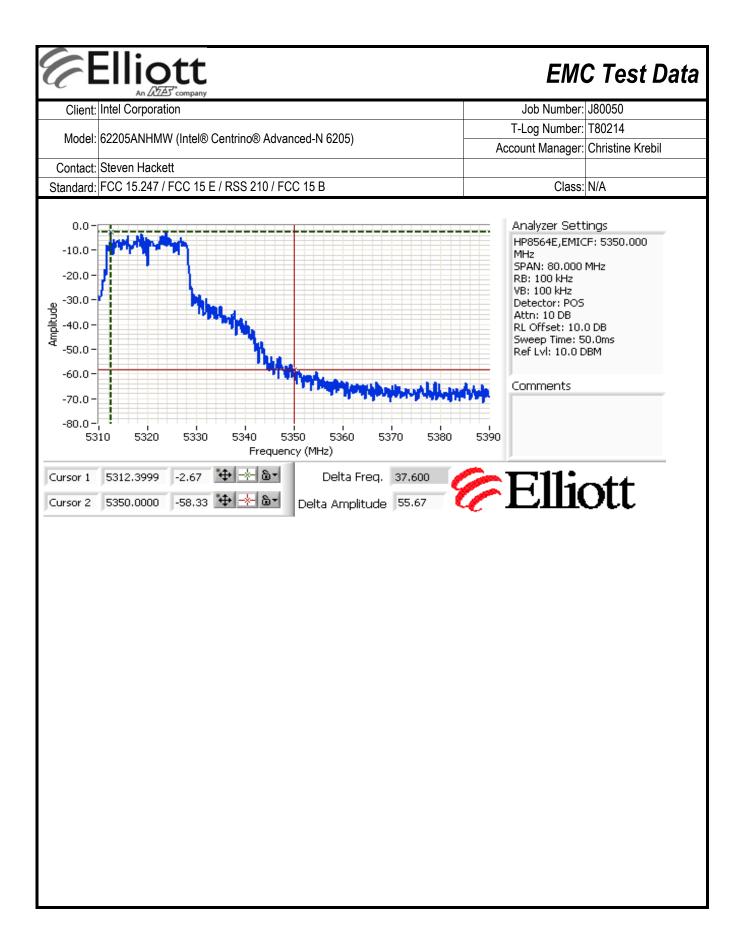
5150 MHz Band Edge Signal Radiated Field Strength - Marker Delta

	Η	V				
Fundamental emission level @ 3m in 1MHz RBW:	104.5	105.9	Peak Measu	rement (RB=	=VB=1MHz)	
Fundamental emission level @ 3m in 1MHz RBW:	94.6	96.0	Average Me	asurement (F	RB=1MHz, V	B=10Hz)
Delta Marker - 100kHz	50.8	dB	<- this can o	nly be used	if band edge	signal is
Calculated Band-Edge Measurement (Peak):	55.1	dBuV/m	highest with	in 2MHz of b	and edge.	
Calculated Band-Edge Measurement (Avg):	45.2	dBuV/m	Margin	Level	Limit	Detector
Delta Marker - 1MHz/1MHz:	48.5	dB	-8.8	45.2	54	Avg
Delta Marker - 1MHz/10Hz:	47.5	dB	-18.9	55.1	74	Pk
Calculated Band-Edge Measurement (Peak):	57.4	dBuV/m	Using 100kh	Iz delta value	е	
Calculated Band-Edge Measurement (Avg):	48.5	dBuV/m	Using 100kl	lz delta value	Э	

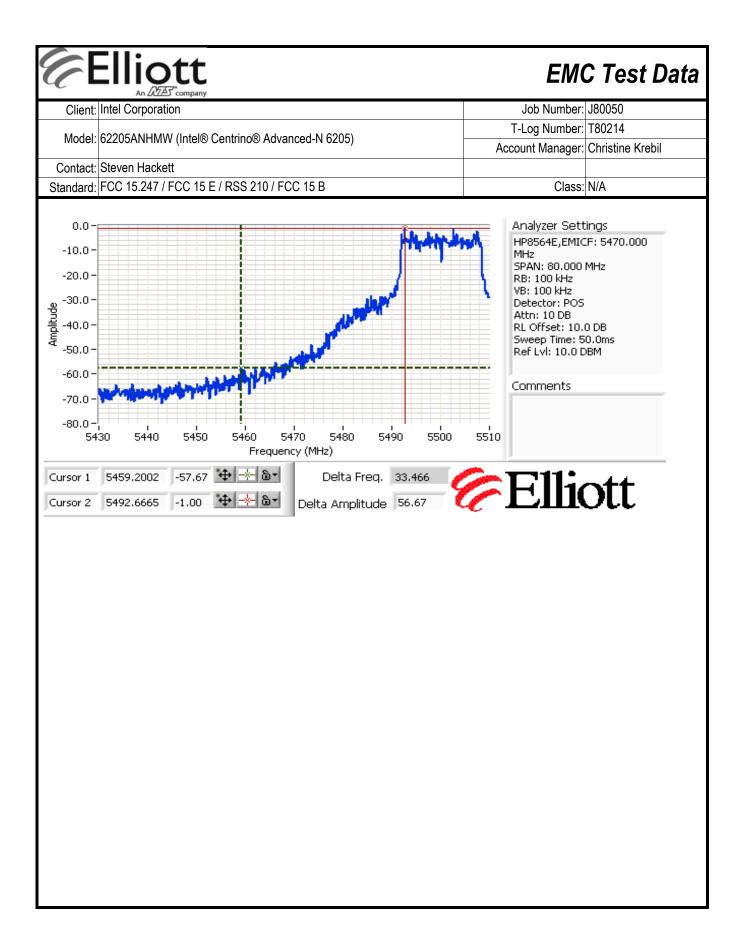
Frequency	Level	Pol	FCC '	15.209	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5149.334	45.2	-	54.0	-8.8	Avg	-	-	Using 100kHz delta value

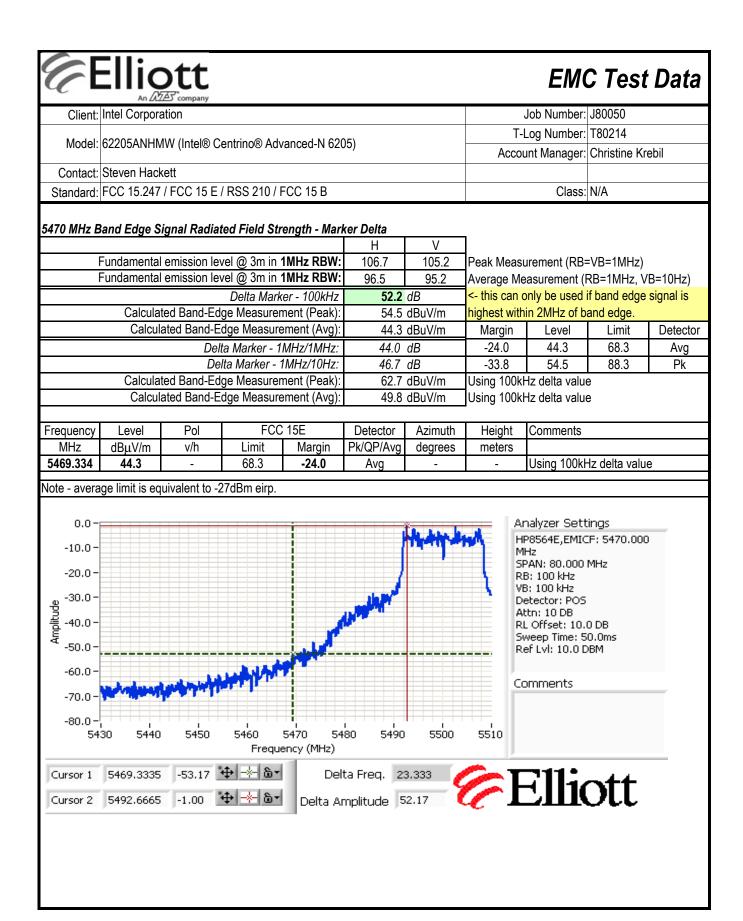


	- -:::-	- 44								
) 还不。 company						EMO	C Test	Data
Client:	Intel Corpora	ation					,	Job Number:	J80050	
Madal.	20005 A NILIA	*** /!t-l@ C	A A	J NI 60/	^F\		T-I	Log Number:	T80214	
Modei	62205ANHIV	IW (Intel® Ce	entrino® Auv	vanced-N 620	J5)		Accol	unt Manager:	Christine Kre	ebil ebil
	Steven Hack									
Standard:	FCC 15.247	/ FCC 15 E /	/ RSS 210 / F	FCC 15 B				Class:	N/A	
)MHz - n 201	MHz, Chain E						
	Date of Test:					est Location:				
160	est Engineer: Г					nfig Change: Settings	none		1	
	J	1	Targe!	t (dBm)		ed (dBm)	I Softwar	e Setting		
	ŀ	Chain B		6.0		6.0		1.5		
	L	<u> </u>		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		<u></u>	<u></u>	1.0]	
- -und <u>ament</u>	al Signal Fie									
Frequency	Level	Pol		/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg		meters			
5318.500	95.1	Н	100.0	-4.9	AVG	145	1.4	RB 1 MHz;V		
5320.440	105.1	Н	70.0	35.1	PK	145	1.4	RB 1 MHz;V		
5318.510	95.2	V	100.0	-4.8	AVG	158	1.1	RB 1 MHz;V		
5320.400	104.8	V	70.0	34.8	PK	158	1.1	RB 1 MHz;V	/B 3 MHz;Pk	
5250 MHz R	and Edge S	tional Radiat	tad Eigld Str	rength - Mark	kor Dalta					
3330 IVII IL D	and Luge of	Igilai Naulas	eu rieiu ou	engui - main	H H	V	1			
F	-undamental	l emission lev	vel @ 3m in	1MHz RBW:		104.8	Peak Meası	urement (RB=	=VB=1MHz)	
		l emission lev				95.2	-	easurement (F	,	B=10Hz)
				ker - 100kHz	55.7			only be used i		,
	Calcula ⁴	ted Band-Edg	ge Measurer	nent (Peak):		dBuV/m		in 2MHz of b	•	ŭ
		lated Band-Ed				dBuV/m	Margin	Level	Limit	Detecto
		Delf	ta Marker - 1	MHz/1MHz:	49.3		-14.5	39.5	54	Avg
			lta Marker - 1		49.5		-24.6	49.4	74	Pk
		ited Band-Edզ	•	. ,		dBuV/m		Hz delta value		
	Calcula	lated Band-Ed	dge Measure	ment (Avg):	45.7	dBuV/m	Using 100kl	Hz delta value	е	
Frequency	Level	Pol	FCC ′	15.209	Detector	Azimuth	Height	Comments		
МНz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5350.000	39.5	_	54.0	-14.5	Avg	<u> </u>	_	Using 100kH	∃z delta value	a .

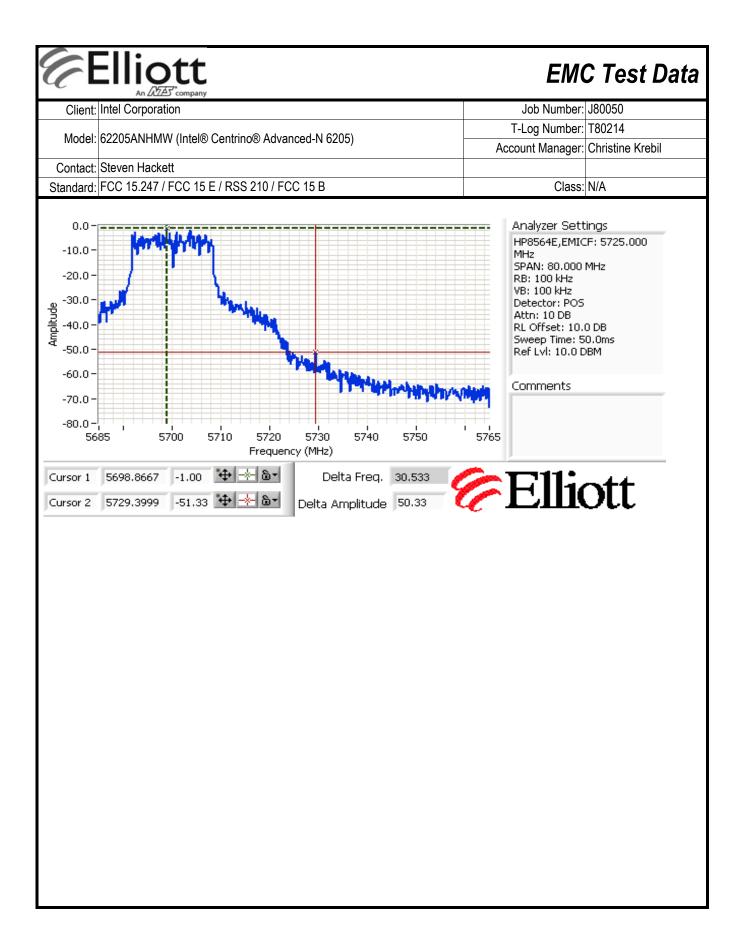


	n						Job Number:	J80050	
Model: 62205ANHMW	(Intol® Co	antrino® Adv	oneed N 60	0E)		T-	Log Number:	T80214	
Model. 02203ANTIMW	(IIILEI® CE	entinos Auv	/anceu-in 620	00)		Acco	unt Manager:	Christine Kre	ebil
Contact: Steven Hackett									
Standard: FCC 15.247 / F	CC 15 E /	RSS 210 / F	FCC 15 B				Class:	N/A	
n # 5c, EUT on Channel	#100 550	10MHz . n 20	MHz Chain	ı B					
# 00, E01 011 011u111c1	#100 000	70WII 12 11 20	Jilli 12, Ollull	Power S	Settings				
		Target	(dBm)	Measure	d (dBm)	Softwar	e Setting		
	Chain B	16	6.5	16	.4	2	4.0		
ndamental Signal Field	Strength								
equency Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments		
MHz dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
501.070 96.5	Н	100.0	-3.5	AVG	134	1.2	RB 1 MHz;V		
500.440 106.7	Н	70.0	36.7	PK	134	1.2	RB 1 MHz;V		
498.500 95.2	V	100.0	-4.8	AVG	152	1.0	RB 1 MHz;V		
500.600 105.2	V	70.0	35.2	PK	152	1.0	RB 1 MHz;V	B 3 MHz;Pk	
60 MHz Restricted Band	l Edna Sir	nnal Radiate	ad Field Stra	anath - Marke	or Delta				
oo iii iz Restricted Barid	Luge on	giiai Nauiatt	ou i ioia ou c	H	V	1			
Fundamental em	nission lev	rel @ 3m in r	1MHz RBW:		105.2	Peak Meas	urement (RB=	:VB=1MHz)	
Fundamental em					95.2		easurement (F	,	B=10Hz)
			er - 100kHz	56.7			only be used i		,
	Band-Edd				dBuV/m		nin 2MHz of b	_	
Calculated			ement (Avg):		dBuV/m	Margin	Level	Limit	Detect
Calculated Calculated		a Marker - 1	ι σ,	54.2		-14.2	39.8	54	Avg
	Delta		1MHz/10Hz:	53.2		-24.0	50.0	74	Pk
		ta Marker - 1			dBuV/m		Hz delta value		
Calculated	Dela		ment (Peak):	52.5			Hz delta value		
Calculated Calculated	<i>Deli</i> Band-Edg	ge Measurer	nent (Peak): ement (Avg):		dBuV/m	Justing Took	i iz deita vaiut		
Calculated Calculated Calculated	<i>Del</i> i Band-Edg d Band-Ed	ge Measurer dge Measure		43.3			Comments		
Calculated Calculated	<i>Deli</i> Band-Edg	ge Measurer dge Measure	ement (Avg):		Azimuth degrees	Height meters			

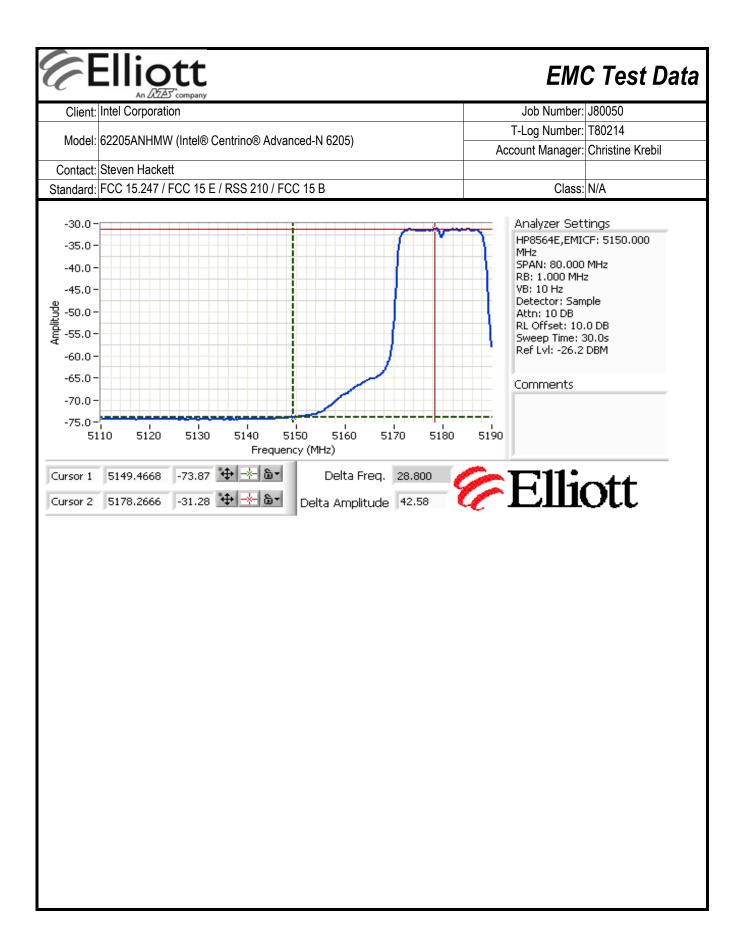




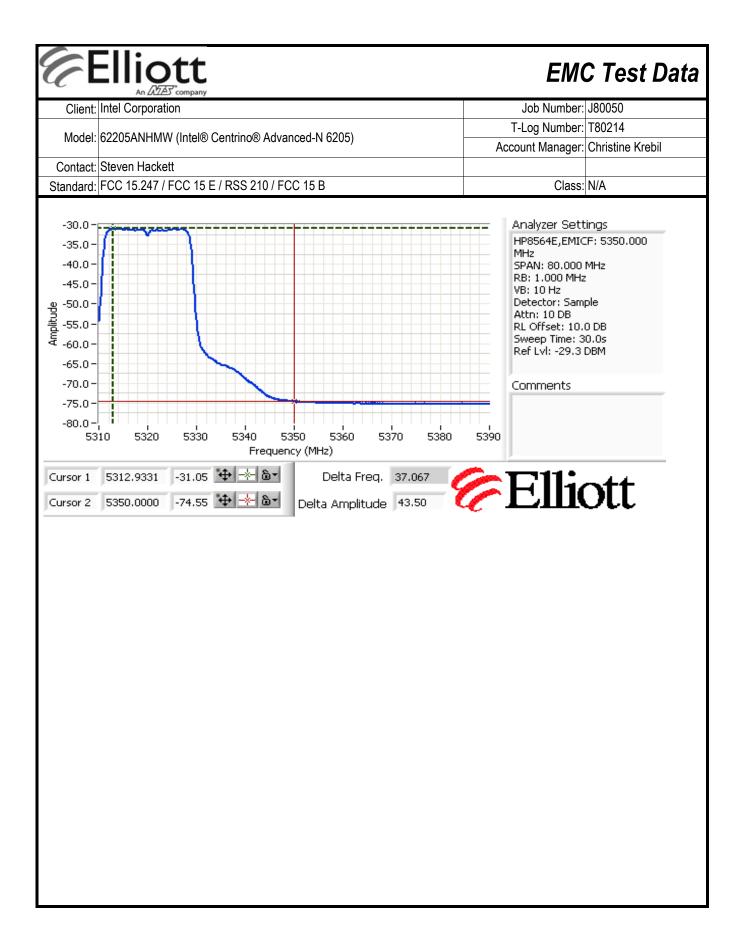
Client:	Intel Corpora	を company ration						Job Number:	J80050	
				:				-Log Number:		
Model:	62205ANHW	/IW (Intel® C	entrino® Adv	anced-N 620	J5)			ount Manager:		ebil
Contact:	Steven Hack	kett								
Standard:	FCC 15.247	/ FCC 15 E	/ RSS 210 / F	-CC 15 B				Class:	N/A	
Run # 5d, E	UT on Chan	inel #140 57	00MHz - n 20)MHz, Chain	ı B					
	!				Power S	•				
	!		Target		Measure	<u> </u>		re Setting	1	
	!	Chain B	16	5.5	16	<u>,.4</u>	Z:	25.0	j	
Fundament	al Signal Fig	eld Strength	ı							
Frequency	Level	Pol		/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5698.500	94.2	Н	100.0	-5.8	AVG	132	1.5	RB 1 MHz;V		
5700.480	104.6	Н	70.0	34.6	PK	132	1.5	RB 1 MHz;V	/B 3 MHz;Pk	
5701.120	93.9	V	100.0	-6.1	AVG	187	1.0	RB 1 MHz;V	•	
5700.440	104.2	V	70.0	34.2	PK	187	1.0	RB 1 MHz;V	/B 3 MHz;Pk	
5725 MHz F	Postricted R	and Edge Si	ianal Padiate	ad Siald Stre	ength - Marke	or Dolta				
3/ Z3 WILL IN	esuicieu De	Illu Euge on	Jilai Raulalo	0 Field Sus	H H	er Deita V	1			
ı	Fundamenta'	emission le	vel @ 3m in 1	1MHz RBW:		104.2	Peak Meas	surement (RB=	=\/R=1MHz)	
			vel @ 3m in 1			93.9		easurement (F	,	/R=10Hz
			_	er - 100kHz				only be used i		
	Calcula	ted Band-Ed	lge Measurem			dBuV/m		hin 2MHz of ba	•	1.5
			dge Measure			dBuV/m	Margin	Level	Limit	Detec
			lta Marker - 11	, ,,	46.2		-24.4	43.9	68.3	Avg
		Del	elta Marker - 1	1MHz/10Hz:	45.7	dB	-34.0	54.3	88.3	Pk
			lge Measurem			dBuV/m		Hz delta value	е	
	Calcul	ated Band-E	dge Measure	ment (Avg):	48.5	dBuV/m	Using 100k	Hz delta value	е	
		Pol	FCC	15E	Detector	Azimuth	Height	Comments		
Frequency	I evel				Dolocio.	/\Lines.	1	001111101110		
Frequency MHz	Level dBµV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			



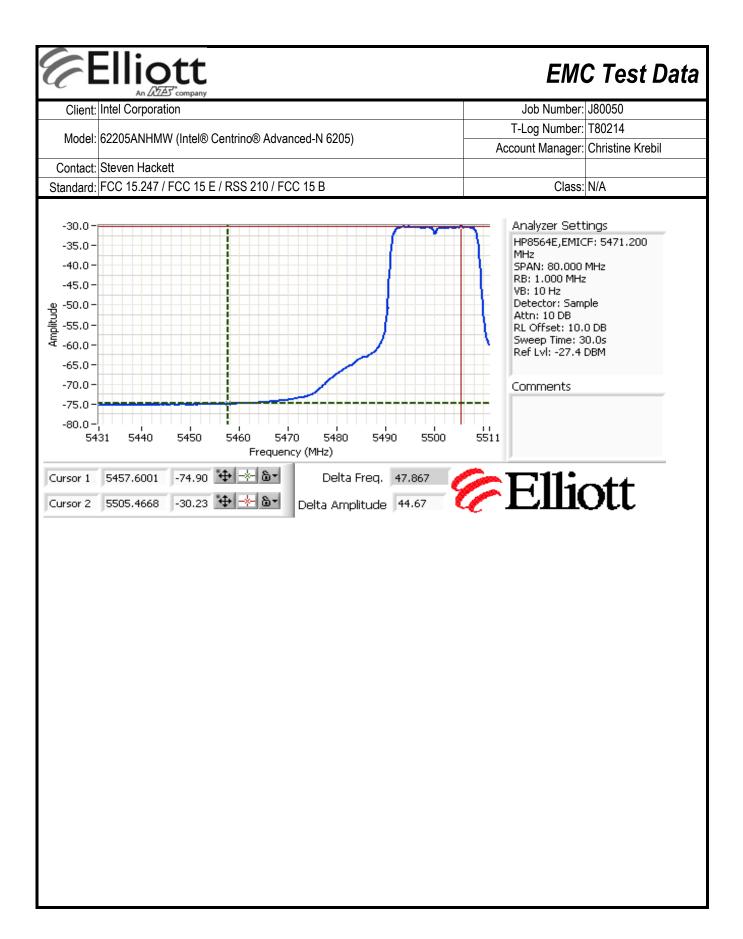
Ct.	Ellic	ott Ar company						EMO	C Test	Data
Client:	Intel Corpora	ation						Job Number:	J80050	
NA I . I	C0005 A N II IN	MM / L L L L A A		I NI CO/	25)		T-	Log Number:	T80214	
Model:	62205ANHM	IVV (Intel® C	entrino® Adv	/anced-N 620	J5)		Acco	unt Manager:	Christine Kr	ebil
Contact:	Steven Hack	cett								
Standard:	FCC 15.247	/ FCC 15 E	/ RSS 210 /	FCC 15 B				Class:	N/A	
Run #6a, El	nd Edge Fiel JT on Chanr Date of Test: st Engineer:	nel #36 5180 8/5/2010	MHz - n 20N		Te	est Location:				
ie	st Engineer:	wenran Birg	anı		Cor	ifig Change:	none			
					Power S	Settings				
		Target	(dBm)			-	ed (dBm)		Softwar	e Setting
Chain	Α	В	С	Total	Α	В	С	Total		
Onam	12.5	12.5		15.5	12.4	12.5		15.5	19.5	/19.5
undament	al Signal Fie	eld Strenath								
Frequency	Level	Pol		/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5173.630	95.5	V	-	-	AVG	157	1.2	RB 1 MHz;V	/B 10 Hz;Pk	
5184.470	105.5	V	-	-	PK	157	1.2	RB 1 MHz;V	/B 3 MHz;Pk	
5185.470	93.0	Н	-	-	AVG	113	1.1	RB 1 MHz;V	/B 10 Hz;Pk	
5186.100	103.3	Н	-	-	PK	113	1.1	RB 1 MHz;V	B 3 MHz;Pk	
5150 MU- D	Band Edge S	ianal Padia	tad Eiald St	ronath Mar	kar Dalta					
) I SU IVITIZ E	anu Euge S	igilal Kaulai	eu rieiu sii	engui - man	H	V	1			
	Fundamental	emission lev	/el @ 3m in	1MHz RBW:	103.3	105.5	Peak Meas	urement (RB=	=VB=1MHz)	
	Fundamental				93.0	95.5	-1	easurement (I	,	B=10Hz)
			_	er - 100kHz	44.9			only be used		
	Calcula	ted Band-Ed		ment (Peak):	60.6	dBuV/m	highest with	in 2MHz of b	and edge.	· ·
	Calcul	ated Band-E	dge Measure	ement (Avg):		dBuV/m	Margin	Level	Limit	Detecto
		Del	ta Marker - 1	MHz/1MHz:	36.3		-1.1	52.9	54	Avg
			lta Marker -		42.6	dB	-13.4	60.6	74	Pk
	Calcula	ted Band-Ed				dBuV/m		Hz delta valu		
	Calcul	ated Band-E	dge Measure	ement (Avg):		dBuV/m	Using 100k	Hz delta valu	е	
		Pol	FCC	15.209	Detector	Azimuth	Height	Comments		
Frequency	ו בעבו		100	10.200		r∠iiiiulii	ı i c iyiil			
Frequency MHz	Level dBµV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			

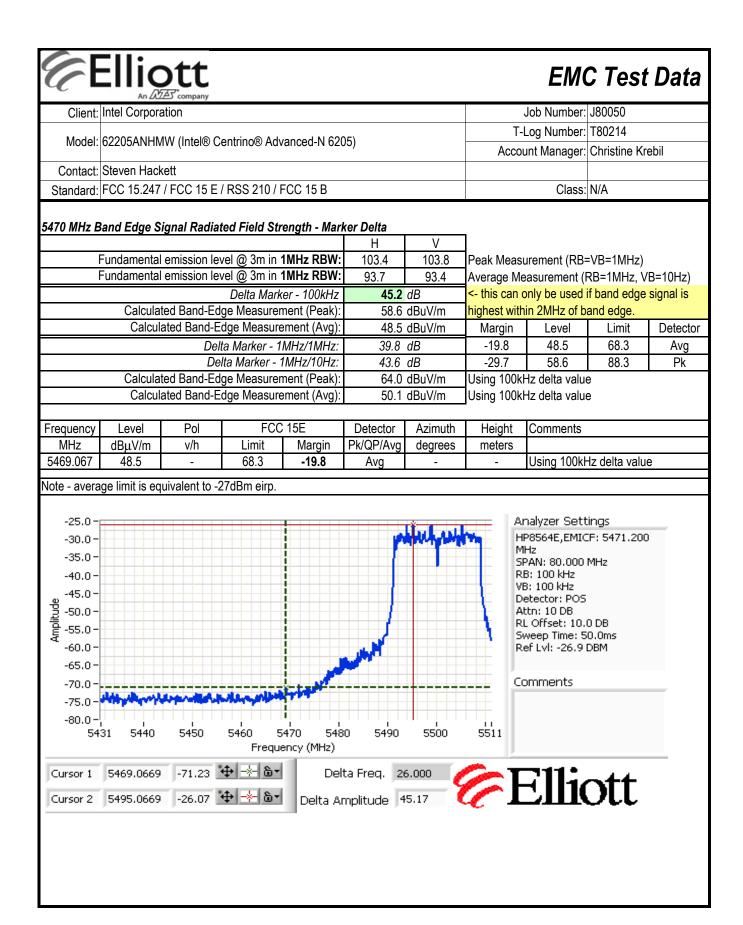


)tt						EMO	C Test	Data
Client:	Intel Corpora	ation						Job Number:	J80050	
Madal	COOOE ANILINA		1-i	4 VI CO(T-1	Log Number:	T80214	
	62205ANHM		entrino® Auv	anced-iv b∠u)5) 			unt Manager:		ebil
	Steven Hack									
Standard:	FCC 15.247	/ FCC 15 E /	RSS 210 / F	CC 15 B				Class:	N/A	
[UT on Chann	8/5/2010		lHz, Chain A	Te	est Location:				
16	est Engineer:	Mehran Birg	ani		Con	nfig Change:	none			
					Power S	•			<u>-</u>	
	1 4	Target		-			ed (dBm)	T + 6.1	Software	e Setting
Chain	13.0	B 13.0	С	Total 16.0	A 13.2	B 13.1	С	Total 16.2	21.5	/21.5
	10.0	10.0		10.0	10.4	10.1		10.2	۷1.0	/Z 1.J
Fu <u>ndament</u>	tal Signal Fie	ld Strength						<u> </u>		
Frequency	Level	Pol	15.209 /	/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5312.830	93.6	V	-	-	AVG	151	1.0	RB 1 MHz;V		
5313.800	103.3	V	-	-	PK	151	1.0		/B 3 MHz;Pk	
5325.430	93.2	Н		- !	AVG	118	1.1	RB 1 MHz;V		
5326.100	103.4	Н			PK	118	1.1	RB 1 MHz;V	/B 3 MHz;Pk	
5350 MHz E	3and Edge Si	ignal Radiat	ed Field Str	enath - Mark	ker Delta					
5350 MHz E	Band Edge Si	ignal Radiat	ed Field Str	ength - Marl	ker Delta H	V	1			
	-					V 103.3] Peak Meası	urement (RB=	=VB=1MHz)	
	Band Edge Sa Fundamental Fundamental	emission lev	vel @ 3m in 1	1MHz RBW:	H 103.4			urement (RB= easurement (F		B=10Hz)
	Fundamental	emission lev	vel @ 3m in 1 vel @ 3m in 1	1MHz RBW:	H 103.4	103.3 93.6	Average Me	urement (RB= easurement (F	RB=1MHz, V	
	Fundamental Fundamental	emission lev	vel @ 3m in 1 vel @ 3m in 1 Delta Mark	1MHz RBW: 1MHz RBW: er - 100kHz	H 103.4 93.2 45.0	103.3 93.6 dB	Average Me	easurement (F	RB=1MHz, V if band edge	
	Fundamental Fundamental Calculat	emission levenission levenis leven	vel @ 3m in 1 vel @ 3m in 1 Delta Marki ge Measuren	1MHz RBW: 1MHz RBW: er - 100kHz nent (Peak):	H 103.4 93.2 45.0 58.4	103.3 93.6 dB dBuV/m	Average Me <- this can of highest with	easurement (Foolly be used in a sure of book of the contract o	RB=1MHz, V if band edge and edge.	signal is
	Fundamental Fundamental Calculat	emission leventssion leventssion leventssion leventsed Band-Edgated Ba	vel @ 3m in 1 vel @ 3m in 1 Delta Mark	MHz RBW: MHz RBW: er - 100kHz ment (Peak): ement (Avg):	H 103.4 93.2 45.0 58.4	103.3 93.6 <i>dB</i> dBuV/m dBuV/m	Average Me	easurement (Foolly be used in a sure of book of the contract o	RB=1MHz, V if band edge	signal is Detector
	Fundamental Fundamental Calculat	emission lev emission lev ted Band-Ed ated Band-E	vel @ 3m in 1 vel @ 3m in 1 Delta Marki ge Measuren dge Measure	1MHz RBW: 1MHz RBW: 1MHz RBW: 1000 -	H 103.4 93.2 45.0 58.4 48.6	103.3 93.6 dB dBuV/m dBuV/m	Average Me <- this can of this highest with Margin	easurement (Fonly be used in a supply be used	RB=1MHz, V if band edge and edge. Limit	signal is
	Fundamental Fundamental Calculat Calcula	emission lever emission	vel @ 3m in 1 vel @ 3m in 1 Delta Marki ge Measuren dge Measure ta Marker - 11	1MHz RBW: 1MHz RBW: 1MHz RBW: 1er - 100kHz 1ment (Peak): 1ment (Avg): 1ment (Avg): 1ment (Avg): 1ment (Avg): 1ment (Avg):	H 103.4 93.2 45.0 58.4 48.6 39.6 43.5	103.3 93.6 dB dBuV/m dBuV/m	Average Me this can o highest with Margin -5.4 -15.6	easurement (Fonly be used in 2MHz of balance Level 48.6	RB=1MHz, V if band edge and edge. Limit 54 74	Detector Avg
	Fundamental Fundamental Calculat Calculat Calculat	emission lever emission emissi	vel @ 3m in 1 vel @ 3m in 1 Delta Marki ge Measuren dge Measure ta Marker - 1 Ita Marker - 1	1MHz RBW: 1MHz RBW: 1MHz RBW: 1er - 100kHz 1erent (Peak): 1erent (Avg): 1MHz/1MHz: 1MHz/10Hz: 1erent (Peak):	H 103.4 93.2 45.0 58.4 48.6 39.6 43.5 63.8	103.3 93.6 dB dBuV/m dBuV/m dB	Average Me this can of highest with Margin -5.4 -15.6 Using 100kl	easurement (Formuly be used in 2MHz of but the Level 48.6 58.4	RB=1MHz, V if band edge and edge. Limit 54 74	signal is Detecto Avg
	Fundamental Fundamental Calculat Calculat Calculat Calculat	emission leventssion leventssi	vel @ 3m in 1 vel @ 3m in 1 Delta Marke ge Measuren dge Measure ta Marker - 11 Ita Marker - 1 ge Measuren dge Measuren	MHz RBW: 1MHz RBW: 1MHz RBW: 1MHz - 100kHz 1MHz (Peak): 1MHz/1MHz: 1MHz/10Hz: 1MHz/10Hz: 1MHz/10Hz: 1MHz/10Hz: 1MHz/10Hz: 1MHz/10Hz: 1MHz/10Hz: 1MHz/10Hz: 1MHz/10Hz:	H 103.4 93.2 45.0 58.4 48.6 39.6 43.5 63.8 50.1	103.3 93.6 dB dBuV/m dBuV/m dB dB dB dBuV/m dB dBuV/m	Average Me this can of highest with Margin -5.4 -15.6 Using 100kl	easurement (Fonly be used in 2MHz of build 2MHz of build 248.6 58.4 Hz delta value	RB=1MHz, V if band edge and edge. Limit 54 74	Detector Avg
	Fundamental Fundamental Calculat Calculat Calculat	emission lever emission emissi	vel @ 3m in 1 vel @ 3m in 1 Delta Marke ge Measuren dge Measure ta Marker - 11 Ita Marker - 1 ge Measuren dge Measuren	1MHz RBW: 1MHz RBW: 1MHz RBW: 1er - 100kHz 1erent (Peak): 1erent (Avg): 1MHz/1MHz: 1MHz/10Hz: 1erent (Peak):	H 103.4 93.2 45.0 58.4 48.6 39.6 43.5 63.8	103.3 93.6 dB dBuV/m dBuV/m dB dB dBuV/m	Average Me this can of highest with Margin -5.4 -15.6 Using 100kl	easurement (Foolly be used in a 2MHz of but the level 48.6 58.4 Hz delta value	RB=1MHz, V if band edge and edge. Limit 54 74	Detector Avg

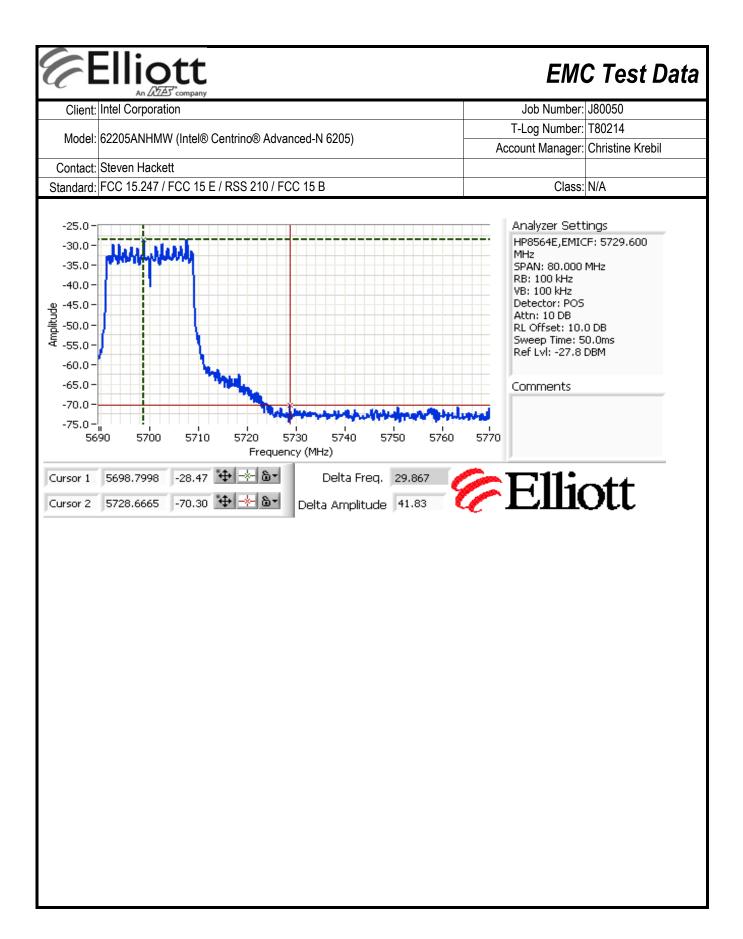


Model		ation						Job Number:	J80050	
							T-	Log Number:		
	: 62205ANHN	/IW (Intel® C	entrino® Adv	anced-N 620	05)			unt Manager:		ebil
Contact	: Steven Hac	kett								
Standard	: FCC 15.247	/ FCC 15 E	/ RSS 210 / I	FCC 15 B				Class:	N/A	
tun #6c, E	UT on Chan	nel #100 550	0MHz - n 20	MHz, Chain	A+B					
					Power	Settings				
			(dBm)	1			ed (dBm)		Softwar	e Setting
Chain	A 42.5	B	С	Total	A	B	С	Total	24.0	/04.0
	13.5	13.5		16.5	13.6	13.6		16.6	24.0	/24.0
undamen	tal Signal Fi	eld Strenath								
requency		Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5506.570	93.4	V	-	-	AVG	137	1.0	RB 1 MHz;\	/B 10 Hz;Pk	
						137			/B 3 MHz;Pk	
5495.070	103.8	V	-	-	PK	131	1.0	IND I WINZ, V		
	103.8 93.7		-	-	AVG	260	1.0			
5493.500 5494.330		H	-	-	AVG PK ength - Mark	260 260 er Delta		RB 1 MHz;\	/B 10 Hz;Pk /B 3 MHz;Pk	
5495.070 5493.500 5494.330	93.7 103.4 Restricted Barrier	H H and Edge Si	- gnal Radiate vel @ 3m in	- ed Field Stre 1MHz RBW:	AVG PK ength - Marke H 103.4	260 260 er Delta V 103.8	1.0 1.0	RB 1 MHz;\\ RB 1 MHz;\\ urement (RB	/B 10 Hz;Pk /B 3 MHz;Pk =VB=1MHz)	
5493.500 5494.330	93.7 103.4 Restricted B	H H and Edge Si	- gnal Radiate vel @ 3m in vel @ 3m in	ed Field Stre 1MHz RBW: 1MHz RBW:	AVG PK ength - Mark H 103.4 93.7	260 260 er Delta V 103.8 93.4	1.0 1.0 Peak Meas Average Meas	RB 1 MHz;\\ RB 1 MHz;\\ urement (RB: easurement (/B 10 Hz;Pk /B 3 MHz;Pk =VB=1MHz) RB=1MHz, V	(B=10Hz)
5493.500 5494.330	93.7 103.4 Restricted Bases Fundamenta Fundamenta	H H and Edge Si l emission le	gnal Radiate vel @ 3m in vel @ 3m in Delta Mark	ed Field Stre 1MHz RBW: 1MHz RBW: er - 100kHz	AVG PK ength - Marke H 103.4 93.7 46.3	260 260 er Delta V 103.8 93.4 dB	1.0 1.0 Peak Meas Average Mo	RB 1 MHz;\\ RB 1 MHz;\\ urement (RB= easurement (only be used	/B 10 Hz;Pk /B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge	(B=10Hz)
5493.500 5494.330	93.7 103.4 Restricted Bases Fundamenta Fundamenta	H H and Edge Si I emission let I emission let ted Band-Ed	yel @ 3m in yel @ 3m in Delta Mark	ed Field Stree 1MHz RBW: 1MHz RBW: er - 100kHz ment (Peak):	AVG PK ength - Marke H 103.4 93.7 46.3 57.5	260 260 er Delta V 103.8 93.4 dB	1.0 1.0 Peak Meas Average Mo	RB 1 MHz;\ RB 1 MHz;\ urement (RB: easurement (only be used	/B 10 Hz;Pk /B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge.	/B=10Hz) signal is
5493.500 5494.330	93.7 103.4 Restricted Bases Fundamenta Fundamenta	H H and Edge Si I emission le I emission le ted Band-Ed lated Band-Ed	gnal Radiate vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measurer	- A Field Street 1 A Fi	AVG PK ength - Mark H 103.4 93.7 46.3 57.5 47.4	260 260 er Delta V 103.8 93.4 dB dBuV/m dBuV/m	1.0 1.0 Peak Meas Average Meas Average Meas Average Meas Inighest with Margin	RB 1 MHz;\ RB 1 MHz;\ urement (RB: easurement (only be used nin 2MHz of b	/B 10 Hz;Pk /B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge. Limit	B=10Hz) signal is Detector
5493.500 5494.330	93.7 103.4 Restricted Bases Fundamenta Fundamenta	H H and Edge Si I emission le I emission le tted Band-Ed lated Band-E	gnal Radiate vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measure ta Marker - 1	ed Field Stree 1MHz RBW: 1MHz RBW: rer - 100kHz ment (Peak): ement (Avg): MHz/1MHz:	AVG PK ength - Marke H 103.4 93.7 46.3 57.5 47.4 40.7	260 260 er Delta V 103.8 93.4 dB dBuV/m dBuV/m	1.0 1.0 Peak Meas Average Mo - this can highest with Margin -6.6	RB 1 MHz;\\ RB 1 MHz;\\ urement (RB: easurement (only be used nin 2MHz of b Level 47.4	/B 10 Hz;Pk /B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge. Limit 54	/B=10Hz) signal is Detector
5493.500 5494.330	93.7 103.4 Restricted Bases Fundamenta Fundamenta Calcula Calcula	H H and Edge Si I emission let I emission let ted Band-Ed lated Band-E Del Del	yel @ 3m in yel @ 3m in Delta Markege Measurer dge Measurer ta Marker - 1	ed Field Stree 1MHz RBW: 1MHz RBW: 1MHz RBW: 100kHz 100kH	AVG PK ength - Marke H 103.4 93.7 46.3 57.5 47.4 40.7 44.7	260 260 er Delta V 103.8 93.4 dB dBuV/m dBuV/m dB	Peak Meas Average Mo this can highest with Margin6.616.5	urement (RBseasurement (only be used hin 2MHz of b Level 47.4 57.5	/B 10 Hz;Pk /B 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge. Limit 54 74	B=10Hz) signal is Detecto
5493.500 5494.330	93.7 103.4 Restricted Bases Fundamenta Calcula Calcula	H H H and Edge Si I emission let I emission let ted Band-Ed lated Band-E Del Det ted Band-Ed	yel @ 3m in yel @ 3m in Delta Markege Measurer dge Measurer ta Marker - 1 Ita Marker - 1 ge Measurer	ed Field Stree 1MHz RBW: 1MHz RBW: 1MHz RBW: 100kHz 100kH	AVG PK ength - Marke H 103.4 93.7 46.3 57.5 47.4 40.7 44.7 63.1	260 260 260 V 103.8 93.4 dB dBuV/m dBuV/m dB dBuV/m	Peak Meas Average	urement (RB: easurement (only be used in 2MHz of b Level 47.4 57.5 Hz delta valu	VB 10 Hz;Pk VB 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge. Limit 54 74 e	/B=10Hz) signal is Detector
5493.500 5494.330	93.7 103.4 Restricted Bases Fundamenta Calcula Calcula	H H and Edge Si I emission let I emission let ted Band-Ed lated Band-E Del Del	yel @ 3m in yel @ 3m in Delta Markege Measurer dge Measurer ta Marker - 1 Ita Marker - 1 ge Measurer	ed Field Stree 1MHz RBW: 1MHz RBW: 1MHz RBW: 100kHz 100kH	AVG PK ength - Marke H 103.4 93.7 46.3 57.5 47.4 40.7 44.7 63.1	260 260 er Delta V 103.8 93.4 dB dBuV/m dBuV/m dB	Peak Meas Average	urement (RBseasurement (only be used hin 2MHz of b Level 47.4 57.5	VB 10 Hz;Pk VB 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge. Limit 54 74 e	/B=10Hz) signal is Detector
5493.500 5494.330 460 MHz	93.7 103.4 Restricted Barring Fundamenta Fundamenta Calcula Calcula Calcula	H H H and Edge Si I emission le I emission l	gnal Radiate vel @ 3m in Delta Mark ge Measurer dge Measure ta Marker - 1 Ita Marker - ge Measurer dge Measurer	ed Field Stree 1MHz RBW: 1MHz RBW: 1MHz RBW: 1MHz - 100kHz 1MHz/1MHz: 1MHz/10Hz: 1MHz/10Hz: 1MHz/10Hz: 1MHz/10Hz: 1MHz/10Hz: 1MHz/10Hz: 1MHz/10Hz:	AVG PK PR PR 103.4 93.7 46.3 57.5 47.4 40.7 44.7 63.1 49.0	260 260 V 103.8 93.4 dB dBuV/m dBuV/m dB dBuV/m dB dBuV/m	1.0 1.0 1.0 Peak Meas Average M	RB 1 MHz;\\ RB 1 MHz;\\ urement (RB: easurement (only be used nin 2MHz of b Level 47.4 57.5 Hz delta valu Hz delta valu	VB 10 Hz;Pk VB 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge. Limit 54 74 e	/B=10Hz) signal is Detector
5493.500 5494.330	93.7 103.4 Restricted Barring Fundamenta Fundamenta Calcula Calcula Calcula	H H H and Edge Si I emission let I emission let ted Band-Ed lated Band-E Del Det ted Band-Ed	gnal Radiate vel @ 3m in Delta Mark ge Measurer dge Measure ta Marker - 1 Ita Marker - ge Measurer dge Measurer	ed Field Stree 1MHz RBW: 1MHz RBW: 1MHz RBW: 100kHz 100kH	AVG PK ength - Marke H 103.4 93.7 46.3 57.5 47.4 40.7 44.7 63.1	260 260 260 V 103.8 93.4 dB dBuV/m dBuV/m dB dBuV/m	Peak Meas Average	urement (RB: easurement (only be used in 2MHz of b Level 47.4 57.5 Hz delta valu	VB 10 Hz;Pk VB 3 MHz;Pk =VB=1MHz) RB=1MHz, V if band edge and edge. Limit 54 74 e	/B=10Hz) signal is Detector





Delta Marker - 1MHz/1MHz: 37.9 dB -16.5 51.8 68.3 Avg	Account Manager: Christine Krebil Contact: Steven Hackett Standard: FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B Class: N/A	Account Manager: Christine Krebil	Client:	Intel Corpora	ation						Job Number:	J80050	
Account Manager Christine Krebil	Contact Steven Hackett Standard: FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B Class: N/A	Contact Steven Hackett Standard FCC 15.247 FCC 15 E RSS 210 FCC 15 B Class N/A	Model:	62205ANHM	IW (Intel® C	entrino® Adv	/anced-N 620	75)					
Class N/A Run #6d, EUT on Channel #140 5700MHz - n 20MHz, Chain A+B Power Settings Measured (dBm) Software Settings Measured (dBm) Software Settings Target (dBm) Measured (dBm) Software Settings Target (dBm) Target (dBm) Measured (dBm) Software Settings Target (dBm) Target (dBm) Software Settings Target (dBm) Target (dBm) Software Settings Measured (dBm) Software Settings Target (dBm) Software Settings Target (dBm) Software Settings Software Sett	Class N/A Run #6d, EUT on Channel #140 5700MHz - n 20MHz, Chain A+B Power Settings Target (dBm) Measured (dBm) Software Settings Measured (dBm) Software Settings Target (dBm) Measured (dBm) Software Settings Target (dBm) Software Settings Measured (dBm) Software Settings Target (dBm) Software Settings Target (dBm) Measured (dBm) Software Settings Target (dBm) Software Settings Target (dBm) Software Settings Total Table	Run #6d, EUT on Channel #140 5700MHz - n 20MHz, Chain A+B			`	CHUIIIO AC	7411004-14 020			Acco	unt Manager:	Christine Kr	ebil
Power Settings Reserved Res	Power Settings Neasured (dBm) Software Settings Neasured (dBm) Neas	Power Settings Measured (dBm) Software Settings Software Settings Measured (dBm) Software Settings Software Settings Measured (dBm) Software Settings Software Se											
Power Settings Measured (dBm) Software Setting	Power Settings Measured (dBm) Software Settings Software Settings Measured (dBm) Software Settings Soft	Power Settings Measured (dBm) Software Set	Standard:	FCC 15.247	/ FCC 15 E	/ RSS 210 / I	FCC 15 B				Class:	N/A	
Target (dBm) Measured (dBm) Software Setting	Target (dBm) Measured (dBm) Software Setti	Target (dBm) Measured (dBm) Software Set	Run #6d, E	UT on Chanr	nel #140 570	0MHz - n 20	MHz, Chain	A+B					
Chain	Chain	Chain						Power	Settings				
Table Tab	Table Tab	Table Tab				(dBm)			Measur	_ '		Software	e Setting
13.5	Table Tab	Table Tab	Chain			С				С			
Frequency Level Pol 15.209 / 15.247 Detector Azimuth Height Comments	Frequency Level Pol 15.209 / 15.247 Detector Azimuth Height Comments	Frequency Level Pol 15.209 / 15.247 Detector Azimuth Height Comments		13.5	13.5		16.5	13.4	13.6		16.5	25.0	/25.0
Frequency Level Pol 15.209 / 15.247 Detector Azimuth Height Comments	Frequency Level Pol 15.209 / 15.247 Detector Azimuth Height Comments	Frequency Level Pol 15.209 / 15.247 Detector Azimuth Height Comments											
MHz	MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters	MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters					/ 15 2/17	Detector	Azimuth	Height	Comments		
September Sep	September Sep	September Sep									Comments		
5702.700 103.7 V	5702.700 103.7	5702.700 103.7 V - - PK 151 1.1 RB 1 MHz;VB 3 MHz;Pk					ivialylli	J	·		RR 1 MHz·\	/B 10 Hz·Pk	
1.1 RB 1 MHz;VB 10 Hz;Pk 1.2 1.1 RB 1 MHz;VB 10 Hz;Pk 1.2 1.1 RB 1 MHz;VB 3 MHz;Pk 1.2 1.1 RB 1 MHz;Pk 1.2 1	1.1 RB 1 MHz;VB 10 Hz;Pk 1.29 1.1 RB 1 MHz;VB 10 Hz;Pk 1.20 1.1 RB 1 MHz;VB 3 MHz;Pk 1.25 MHz Restricted Band Edge Signal Radiated Field Strength - Marker Delta	5706.630 92.4 H					_						
Total Tota	Total Frequency Level Pol FCC 15E Detector Azimuth	Total Color Frequency Level Pol FCC 15E Detector Avg Calculated Band-Edge Measurement (Avg): State of the state of th			-	_	_					· · · · · · · · · · · · · · · · · · ·	
Frequency Level Pol FCC 15E Detector Azimuth Height Comments H	Frequency Level Pol FCC 15E Detector Azimuth H V Sundaments Polk Pack Pack Pack Pack Pack Pack Pack Pac	Frequency Level Pol FCC 15E Detector Azimuth Height Comments Fundamental emission level @ Hours (RB-VB-1MHz) (RB-VB-1MH				-	-					· · · · · · · · · · · · · · · · · · ·	
Delta Marker - 100kHz41.8 dB<- this can only be used if band edge signal is highest within 2MHz of band edge.	Delta Marker - 100kHz41.8 dB<- this can only be used if band edge signal highest within 2MHz of band edge.	Delta Marker - 100kHz41.8 dB<- this can only be used if band edge sign		Fundamental	emission lev	vel @ 3m in	1MHz RBW:			Peak Meas	urement (RB:	=VB=1MHz)	
Calculated Band-Edge Measurement (Peak):61.9 dBuV/mhighest within 2MHz of band edge.Calculated Band-Edge Measurement (Avg):51.8 dBuV/mMarginLevelLimitDetectorDelta Marker - 1MHz/1MHz:37.9 dB-16.551.868.3AvgDelta Marker - 1MHz/10Hz:40.3 dB-26.461.988.3PkCalculated Band-Edge Measurement (Peak):65.8 dBuV/mUsing 100kHz delta valueCalculated Band-Edge Measurement (Avg):53.3 dBuV/mUsing 100kHz delta valueFrequencyLevelPolFCC 15EDetectorAzimuthHeightCommentsMHzdBμV/mv/hLimitMarginPk/QP/Avgdegreesmeters5728.66751.8-68.3-16.5AvgUsing 100kHz delta value	Calculated Band-Edge Measurement (Peak):61.9 dBuV/mhighest within 2MHz of band edge.Calculated Band-Edge Measurement (Avg):51.8 dBuV/mMarginLevelLimitDetectorDelta Marker - 1MHz/1MHz:37.9 dB-16.551.868.3ADelta Marker - 1MHz/10Hz:40.3 dB-26.461.988.3FCalculated Band-Edge Measurement (Peak):65.8 dBuV/mUsing 100kHz delta valueCalculated Band-Edge Measurement (Avg):53.3 dBuV/mUsing 100kHz delta valueFrequencyLevelPolFCC 15EDetectorAzimuthHeightCommentsMHzdBμV/mv/hLimitMarginPk/QP/Avgdegreesmeters5728.66751.8-68.3-16.5AvgUsing 100kHz delta value	Calculated Band-Edge Measurement (Peak):61.9 dBuV/mhighest within 2MHz of band edge.Calculated Band-Edge Measurement (Avg):51.8 dBuV/mMarginLevelLimitDDelta Marker - 1MHz/1MHz:37.9 dB-16.551.868.3Delta Marker - 1MHz/10Hz:40.3 dB-26.461.988.3Calculated Band-Edge Measurement (Peak):65.8 dBuV/mUsing 100kHz delta valueCalculated Band-Edge Measurement (Avg):53.3 dBuV/mUsing 100kHz delta valueFrequencyLevelPolFCC 15EDetectorAzimuthHeightCommentsMHzdBμV/mv/hLimitMarginPk/QP/Avgdegreesmeters5728.66751.8-68.3-16.5AvgUsing 100kHz delta value									,	,	B=10Hz)
Calculated Band-Edge Measurement (Avg):51.8 dBuV/mMarginLevelLimitDetectorDelta Marker - 1MHz/1MHz:37.9 dB-16.551.868.3AvgDelta Marker - 1MHz/10Hz:40.3 dB-26.461.988.3PkCalculated Band-Edge Measurement (Peak):65.8 dBuV/mUsing 100kHz delta valueCalculated Band-Edge Measurement (Avg):53.3 dBuV/mUsing 100kHz delta valueFrequencyLevelPolFCC 15EDetectorAzimuthHeightCommentsMHzdBμV/mv/hLimitMarginPk/QP/Avgdegreesmeters5728.66751.8-68.3-16.5AvgUsing 100kHz delta value	Calculated Band-Edge Measurement (Avg):51.8 dBuV/mMarginLevelLimitDetectDelta Marker - 1MHz/1MHz:37.9 dB-16.551.868.3ADelta Marker - 1MHz/10Hz:40.3 dB-26.461.988.3FCalculated Band-Edge Measurement (Peak):65.8 dBuV/mUsing 100kHz delta valueCalculated Band-Edge Measurement (Avg):53.3 dBuV/mUsing 100kHz delta valueFrequencyLevelPolFCC 15EDetectorAzimuthHeightCommentsMHzdBμV/mv/hLimitMarginPk/QP/Avgdegreesmeters5728.66751.8-68.3-16.5AvgUsing 100kHz delta value	Calculated Band-Edge Measurement (Avg):51.8 dBuV/mMarginLevelLimitDDelta Marker - 1MHz/1MHz:37.9 dB-16.551.868.3Delta Marker - 1MHz/10Hz:40.3 dB-26.461.988.3Calculated Band-Edge Measurement (Peak):65.8 dBuV/mUsing 100kHz delta valueCalculated Band-Edge Measurement (Avg):53.3 dBuV/mUsing 100kHz delta valueFrequencyLevelPolFCC 15EDetectorAzimuthHeightCommentsMHzdBμV/mv/hLimitMarginPk/QP/Avgdegreesmeters5728.66751.8-68.3-16.5AvgUsing 100kHz delta value		Fundamental	emission lev	/ei @ 3m in			33.0	Average ivi	casulement (i		,
Delta Marker - 1MHz/1MHz:37.9 dB-16.551.868.3AvgDelta Marker - 1MHz/10Hz:40.3 dB-26.461.988.3PkCalculated Band-Edge Measurement (Peak):65.8 dBuV/mUsing 100kHz delta valueCalculated Band-Edge Measurement (Avg):53.3 dBuV/mUsing 100kHz delta valueFrequencyLevelPolFCC 15EDetectorAzimuthHeightCommentsMHzdBμV/mv/hLimitMarginPk/QP/Avgdegreesmeters5728.66751.8-68.3-16.5AvgUsing 100kHz delta value	Delta Marker - 1MHz/1MHz:37.9 dB-16.551.868.3ADelta Marker - 1MHz/10Hz:40.3 dB-26.461.988.3FCalculated Band-Edge Measurement (Peak):65.8 dBuV/mUsing 100kHz delta valueCalculated Band-Edge Measurement (Avg):53.3 dBuV/mUsing 100kHz delta valueFrequencyLevelPolFCC 15EDetectorAzimuthHeightCommentsMHzdBμV/mv/hLimitMarginPk/QP/Avgdegreesmeters5728.66751.8-68.3-16.5AvgUsing 100kHz delta value	Delta Marker - 1MHz/1MHz:37.9 dB-16.551.868.3Delta Marker - 1MHz/10Hz:40.3 dB-26.461.988.3Calculated Band-Edge Measurement (Peak):65.8 dBuV/mUsing 100kHz delta valueCalculated Band-Edge Measurement (Avg):53.3 dBuV/mUsing 100kHz delta valueFrequencyLevelPolFCC 15EDetectorAzimuthHeightCommentsMHzdBμV/mv/hLimitMarginPk/QP/Avgdegreesmeters5728.66751.8-68.3-16.5AvgUsing 100kHz delta value		Fundamental	emission lev						,		,
Delta Marker - 1MHz/10Hz:40.3 dB-26.461.988.3PkCalculated Band-Edge Measurement (Peak):65.8 dBuV/mUsing 100kHz delta valueCalculated Band-Edge Measurement (Avg):53.3 dBuV/mUsing 100kHz delta valueFrequencyLevelPolFCC 15EDetectorAzimuthHeightCommentsMHzdBμV/mv/hLimitMarginPk/QP/Avgdegreesmeters5728.66751.8-68.3-16.5AvgUsing 100kHz delta value	Delta Marker - 1MHz/10Hz:40.3 dB-26.461.988.3FCalculated Band-Edge Measurement (Peak):65.8 dBuV/mUsing 100kHz delta valueCalculated Band-Edge Measurement (Avg):53.3 dBuV/mUsing 100kHz delta valueFrequencyLevelPolFCC 15EDetectorAzimuthHeightCommentsMHzdBμV/mv/hLimitMarginPk/QP/Avgdegreesmeters5728.66751.8-68.3-16.5AvgUsing 100kHz delta value	Delta Marker - 1MHz/10Hz:40.3 dB-26.461.988.3Calculated Band-Edge Measurement (Peak):65.8 dBuV/mUsing 100kHz delta valueCalculated Band-Edge Measurement (Avg):53.3 dBuV/mUsing 100kHz delta valueFrequencyLevelPolFCC 15EDetectorAzimuthHeightCommentsMHzdBμV/mv/hLimitMarginPk/QP/Avgdegreesmeters5728.66751.8-68.3-16.5AvgUsing 100kHz delta value				Delta Mark	er - 100kHz	41.8	dB	<- this can	only be used	if band edge	,
Calculated Band-Edge Measurement (Peak): 65.8 dBuV/m Using 100kHz delta value Calculated Band-Edge Measurement (Avg): 53.3 dBuV/m Using 100kHz delta value Frequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5728.667 51.8 - 68.3 -16.5 Avg - - Using 100kHz delta value	Calculated Band-Edge Measurement (Peak):65.8 dBuV/mUsing 100kHz delta valueCalculated Band-Edge Measurement (Avg):53.3 dBuV/mUsing 100kHz delta valueFrequencyLevelPolFCC 15EDetectorAzimuthHeightCommentsMHzdBμV/mv/hLimitMarginPk/QP/Avgdegreesmeters5728.66751.8-68.3-16.5AvgUsing 100kHz delta value	Calculated Band-Edge Measurement (Peak):65.8 dBuV/mUsing 100kHz delta valueCalculated Band-Edge Measurement (Avg):53.3 dBuV/mUsing 100kHz delta valueFrequencyLevelPolFCC 15EDetectorAzimuthHeightCommentsMHzdBμV/mv/hLimitMarginPk/QP/Avgdegreesmeters5728.66751.8-68.3-16.5AvgUsing 100kHz delta value		Calculat	ted Band-Ed	<i>Delta Mark</i> ge Measurer	<i>ter - 100kHz</i> ment (Peak):	41.8 61.9	<i>dB</i> dBuV/m	<- this can highest with	only be used nin 2MHz of b	if band edge and edge.	signal is
Calculated Band-Edge Measurement (Avg): 53.3 dBuV/m Using 100kHz delta value Frequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5728.667 51.8 - 68.3 -16.5 Avg - - Using 100kHz delta value	Calculated Band-Edge Measurement (Avg): 53.3 dBuV/m Using 100kHz delta value Frequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5728.667 51.8 - 68.3 -16.5 Avg Using 100kHz delta value	Calculated Band-Edge Measurement (Avg): 53.3 dBuV/m Using 100kHz delta value Frequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5728.667 51.8 - 68.3 -16.5 Avg - - Using 100kHz delta value		Calculat	ted Band-Ed ated Band-E	<i>Delta Mark</i> ge Measurer dge Measure	er - 100kHz ment (Peak): ment (Avg):	41.8 61.9 51.8	dB dBuV/m dBuV/m	<- this can highest with Margin	only be used nin 2MHz of b Level	if band edge and edge. Limit	signal is
Frequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5728.667 51.8 - 68.3 -16.5 Avg - Using 100kHz delta value	Frequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5728.667 51.8 - 68.3 -16.5 Avg Using 100kHz delta value	Frequency Level Pol FCC 15E Detector Azimuth Height Comments MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5728.667 51.8 - 68.3 -16.5 Avg Using 100kHz delta value		Calculat Calcula	ted Band-Ed ated Band-E Del De	Delta Mark ge Measurer dge Measure ta Marker - 1 Ita Marker -	ment (Peak): ment (Avg): ment (Avg): MHz/1MHz: 1MHz/10Hz:	41.8 61.9 51.8 37.9	dB dBuV/m dBuV/m	- this can highest with Margin -16.5	only be used hin 2MHz of but Level 51.8	if band edge and edge. Limit 68.3	signal is
MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5728.667 51.8 - 68.3 -16.5 Avg Using 100kHz delta value	MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5728.667 51.8 - 68.3 -16.5 Avg Using 100kHz delta value	MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5728.667 51.8 - 68.3 -16.5 Avg Using 100kHz delta value		Calculat Calculat Calculat	ted Band-Ed ated Band-E Del De ted Band-Ed	Delta Mark ge Measurer dge Measurer ta Marker - 1 Ita Marker - ge Measurer	ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak):	41.8 61.9 51.8 37.9 40.3 65.8	dB dBuV/m dBuV/m dB dB dB	- this can highest with Margin -16.5 -26.4 Using 100k	only be used hin 2MHz of but Level 51.8 61.9 Hz delta value	if band edge and edge. Limit 68.3 88.3	Signal is Detector Avg
MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5728.667 51.8 - 68.3 -16.5 Avg Using 100kHz delta value	MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5728.667 51.8 - 68.3 -16.5 Avg Using 100kHz delta value	MHz dBμV/m v/h Limit Margin Pk/QP/Avg degrees meters 5728.667 51.8 - 68.3 -16.5 Avg Using 100kHz delta value		Calculat Calculat Calculat	ted Band-Ed ated Band-E Del De ted Band-Ed	Delta Mark ge Measurer dge Measurer ta Marker - 1 Ita Marker - ge Measurer	ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak):	41.8 61.9 51.8 37.9 40.3 65.8	dB dBuV/m dBuV/m dB dB dB	- this can highest with Margin -16.5 -26.4 Using 100k	only be used hin 2MHz of but Level 51.8 61.9 Hz delta value	if band edge and edge. Limit 68.3 88.3	Signal is Detector Avg
5728.667 51.8 - 68.3 -16.5 Avg Using 100kHz delta value	5728.667 51.8 - 68.3 -16.5 Avg Using 100kHz delta value	5728.667 51.8 - 68.3 -16.5 Avg Using 100kHz delta value		Calculat Calculat Calculat Calculat	ted Band-Ed ated Band-E Del De ted Band-Ed ated Band-E	Delta Mark ge Measurer dge Measurer ta Marker - 1 Ita Marker - ge Measurer dge Measurer	ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak): ement (Avg):	41.8 61.9 51.8 37.9 40.3 65.8 53.3	dB dBuV/m dBuV/m dB dB dB dB dBuV/m dBuV/m	- this can highest with Margin -16.5 -26.4 Using 100k Using 100k	only be used hin 2MHz of but Level 51.8 61.9 Hz delta value	if band edge and edge. Limit 68.3 88.3	Signal is Detector Avg
			Frequency	Calculat Calculat Calculat Calculat	ted Band-Ed ated Band-E Del De ted Band-Ed ated Band-E	Delta Mark ge Measurer dge Measurer ta Marker - 1 Ita Marker - ge Measurer dge Measurer	ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak): ement (Avg):	41.8 61.9 51.8 37.9 40.3 65.8 53.3	dB dBuV/m dBuV/m dB dB dB dBuV/m dBuV/m dBuV/m	- this can highest with Margin -16.5 -26.4 Using 100k Using 100k	only be used hin 2MHz of but Level 51.8 61.9 Hz delta value	if band edge and edge. Limit 68.3 88.3	Signal is Detector Avg
Note - average limit is equivalent to -27dBm eirp.	Note - average limit is equivalent to -27dBm eirp.	Note - average limit is equivalent to -27dBm eirp.	Frequency MHz	Calculat Calculat Calculat Calculat Calculat Calculat dBµV/m	ted Band-Ed ated Band-E Del De ted Band-Ed ated Band-E	Delta Mark ge Measurer dge Measurer ta Marker - 1 Ita Marker - ge Measurer dge Measurer ta Measurer dge Measurer	ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak): ement (Avg): C 15E Margin	41.8 61.9 51.8 37.9 40.3 65.8 53.3 Detector Pk/QP/Avg	dB dBuV/m dBuV/m dB dB dB dBuV/m dBuV/m dBuV/m	- this can highest with Margin -16.5 -26.4 Using 100k Using 100k	only be used hin 2MHz of but Level 51.8 61.9 Hz delta value Hz delta value Comments	if band edge and edge. Limit 68.3 88.3 e	Detector Avg Pk
			Frequency MHz	Calculat Calculat Calculat Calculat Calculat Calculat dBµV/m	ted Band-Ed ated Band-E Del De ted Band-Ed ated Band-E	Delta Mark ge Measurer dge Measurer ta Marker - 1 Ita Marker - ge Measurer dge Measurer ta Measurer dge Measurer	ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak): ement (Avg): C 15E Margin	41.8 61.9 51.8 37.9 40.3 65.8 53.3 Detector Pk/QP/Avg	dB dBuV/m dBuV/m dB dB dB dBuV/m dBuV/m dBuV/m	- this can highest with Margin -16.5 -26.4 Using 100k Using 100k	only be used hin 2MHz of but Level 51.8 61.9 Hz delta value Hz delta value Comments	if band edge and edge. Limit 68.3 88.3 e	Detecto Avg Pk
			Frequency MHz 5728.667	Calculat Calculat Calculat Calculat Calculat dBµV/m 51.8	ted Band-Ed ated Band-E Del De ted Band-Ed ated Band-E Pol v/h	Delta Mark ge Measurer dge Measurer ta Marker - 1 lta Marker - ge Measurer dge Measurer dge Measurer Limit 68.3	ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak): ement (Avg): C 15E Margin	41.8 61.9 51.8 37.9 40.3 65.8 53.3 Detector Pk/QP/Avg	dB dBuV/m dBuV/m dB dB dB dBuV/m dBuV/m dBuV/m	- this can highest with Margin -16.5 -26.4 Using 100k Using 100k	only be used hin 2MHz of but Level 51.8 61.9 Hz delta value Hz delta value Comments	if band edge and edge. Limit 68.3 88.3 e	Detect Avg Pk
			Frequency MHz 5728.667	Calculat Calculat Calculat Calculat Calculat dBµV/m 51.8	ted Band-Ed ated Band-E Del De ted Band-Ed ated Band-E Pol v/h	Delta Mark ge Measurer dge Measurer ta Marker - 1 lta Marker - ge Measurer dge Measurer dge Measurer Limit 68.3	ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak): ement (Avg): C 15E Margin	41.8 61.9 51.8 37.9 40.3 65.8 53.3 Detector Pk/QP/Avg	dB dBuV/m dBuV/m dB dB dB dBuV/m dBuV/m dBuV/m	- this can highest with Margin -16.5 -26.4 Using 100k Using 100k	only be used hin 2MHz of but Level 51.8 61.9 Hz delta value Hz delta value Comments	if band edge and edge. Limit 68.3 88.3 e	Detecto Avg Pk
			Frequency MHz 5728.667	Calculat Calculat Calculat Calculat Calculat dBµV/m 51.8	ted Band-Ed ated Band-E Del De ted Band-Ed ated Band-E Pol v/h	Delta Mark ge Measurer dge Measurer ta Marker - 1 lta Marker - ge Measurer dge Measurer dge Measurer Limit 68.3	ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak): ement (Avg): C 15E Margin	41.8 61.9 51.8 37.9 40.3 65.8 53.3 Detector Pk/QP/Avg	dB dBuV/m dBuV/m dB dB dB dBuV/m dBuV/m dBuV/m	- this can highest with Margin -16.5 -26.4 Using 100k Using 100k	only be used hin 2MHz of but Level 51.8 61.9 Hz delta value Hz delta value Comments	if band edge and edge. Limit 68.3 88.3 e	Detecti Avg Pk



EII	iott An MAS company
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	All Dear Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANT INVV (ITTER® CERTIFIC® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 7, Band Edge Field Strength - 802.11a, Chain B Run # 7a, EUT on Channel #36 5180MHz - 802.11a, Chain B

Date of Test: 8/5/2010 Test Location: Test Engineer: Mehran Birgani Config Change: none

		Power Settings	
	Target (dBm)	Measured (dBm)	Software Setting
Chain B	16.0	16.2	20.5

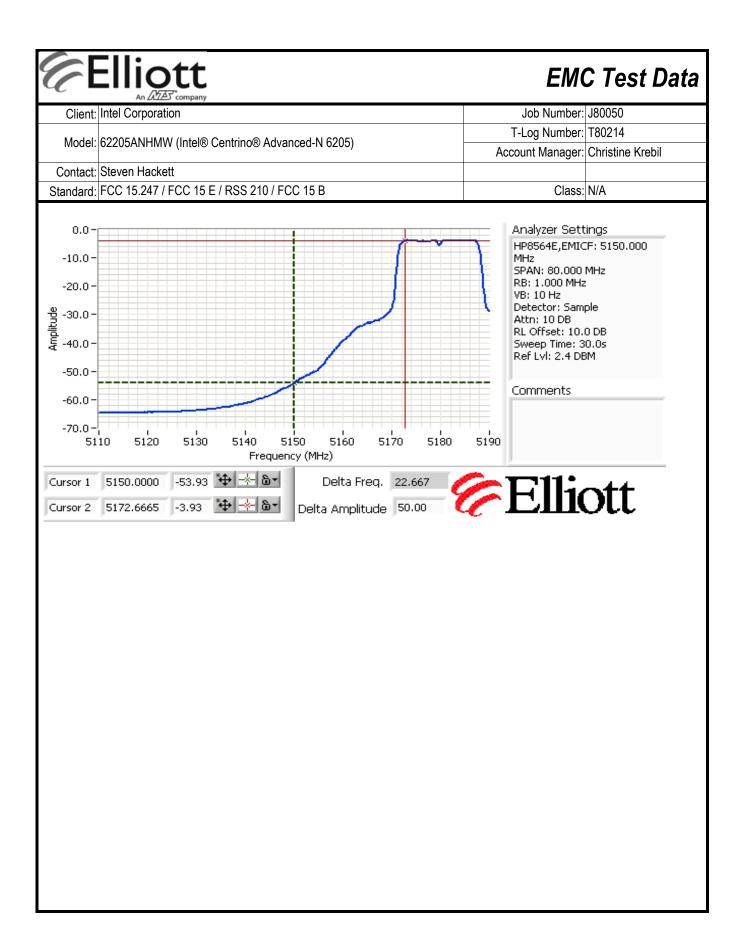
Fundamental Signal Field Strength

Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5173.130	98.0	V	-	-	AVG	159	1.1	RB 1 MHz;VB 10 Hz;Pk
5173.000	106.4	V	-	-	PK	159	1.1	RB 1 MHz;VB 3 MHz;Pk
5186.300	96.9	Н	-	-	AVG	116	1.1	RB 1 MHz;VB 10 Hz;Pk
5182.130	105.0	Н	-	-	PK	116	1.1	RB 1 MHz;VB 3 MHz;Pk

5150 MHz Band Edge Signal Radiated Field Strength - Marker Delta

	I	V				
Fundamental emission level @ 3m in 1MHz RBW:	105.0	106.4	Peak Measu	rement (RB=	=VB=1MHz)	
Fundamental emission level @ 3m in 1MHz RBW:	96.9	98.0	Average Measurement (RB=1MHz, VB=1			
Delta Marker - 100kHz	49.8	dB	<- this can o	nly be used	if band edge	signal is
Calculated Band-Edge Measurement (Peak):	56.6	dBuV/m	highest within 2MHz of band edge.			
Calculated Band-Edge Measurement (Avg):	48.2	dBuV/m	Margin	Level	Limit	Detector
Delta Marker - 1MHz/1MHz:	44.7	dB	-6.0	48.0	54	Avg
Delta Marker - 1MHz/10Hz:	50.0	dB	-17.4	56.6	74	Pk
Calculated Band-Edge Measurement (Peak):	61.7	dBuV/m	Using 100kHz delta value			
Calculated Band-Edge Measurement (Avg):	48.0	dBuV/m	Using 1MHz	delta value		

Frequency	Level	Pol	FCC [*]	15.209	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5150.000	48.0	-	54.0	-6.0	Avg	-	-	Using 1MHz delta value



4		ZAT company							C Test	Dala
Client:	Intel Corpor	ation						Job Number:		
Model:	62205ANHN	/IW (Intel® C	entring® Adv	/anced-N 620	15)			Log Number:		
			Sittinio Au	7d1100d-11 020	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Accou	unt Manager:	Christine Kr	ebil
Contact:	Steven Hac	kett								
Standard:	FCC 15.247	/ FCC 15 E	' RSS 210 / I	FCC 15 B				Class:	N/A	
	Date of Test: est Engineer:	8/5/2010 Mehran Birg	ani		Cor	est Location:			ı	
			Tarnet	t (dBm)	Power S Measure	•	Softwar	e Setting		
		Chain B		6.0	15			1.5		
Frequency	Level	Pol		/ 15.247	Detector	Azimuth	Height	Comments		
MHz 5312.970	dBμV/m 95.7	v/h V	Limit	Margin	Pk/QP/Avg AVG	degrees 148	meters 1.4	RB 1 MHz;V	/D 10 H=-Dk	
5312.970	103.8	V		_	PK	148	1.4	RB 1 MHz;V		
5326.170	96.1	H	_	_	AVG	121	1.1	RB 1 MHz;V		
	104.1	Н	-	-	PK	121	1.1		B 3 MHz;Pk	
5326.870										
	Band Edge S	Signal Radiat	ed Field Str	ength - Mari			1			
5350 MHz E					Н	V 102.9	Book Magaz	romant (DD-	-\/D-1MU-\	
5350 MHz E	Fundamenta	l emission lev	vel @ 3m in	1MHz RBW:	H 104.1	103.8		urement (RB	,	R=10Hz)
5350 MHz E	Fundamenta		vel @ 3m in vel	1MHz RBW: 1MHz RBW:	H 104.1 96.1	103.8 95.7	Average Me	asurement (l	RB=1MHz, V	,
5350 MHz E	Fundamenta Fundamenta	l emission lev l emission lev	vel @ 3m in vel @ 3m in vel @ 3m in vel @ 3m in vel welta Mark	1MHz RBW: 1MHz RBW: cer - 100kHz	H 104.1 96.1 52.3	103.8 95.7	Average Me	,	RB=1MHz, V <mark>if band edge</mark>	,
5350 MHz E	Fundamenta Fundamenta Calcula	l emission lev	vel @ 3m in vel @ 3m in vel @ 3m in vel @ 3m in vel wark	1MHz RBW: 1MHz RBW: ter - 100kHz ment (Peak):	H 104.1 96.1 52.3 51.8	103.8 95.7 dB	Average Me	easurement (lonly be used	RB=1MHz, V <mark>if band edge</mark>	signal is
5350 MHz E	Fundamenta Fundamenta Calcula	I emission leval emission emis	vel @ 3m in vel @ 3m in Delta Mark ge Measurer dge Measure	1MHz RBW: 1MHz RBW: ter - 100kHz ment (Peak):	H 104.1 96.1 52.3 51.8	103.8 95.7 <i>dB</i> dBuV/m dBuV/m	Average Me <- this can of highest with	easurement (I only be used in 2MHz of b	RB=1MHz, V if band edge and edge.	,
5350 MHz E	Fundamenta Fundamenta Calcula Calcul	I emission leval emission emis	vel @ 3m in vel @ 3m in Delta Markge Measurer dge Measurer a Marker - 1ta Marker - 2	1MHz RBW: 1MHz RBW: 1MHz RBW: ter - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz:	H 104.1 96.1 52.3 51.8 43.8 46.7 53.0	103.8 95.7 dB dBuV/m dBuV/m	Average Me this can o highest with Margin -10.9 -22.2	easurement (lonly be used in 2MHz of be Level	RB=1MHz, V if band edge and edge. Limit 54 74	signal is Detecto

Level

dBμV/m

43.1

Frequency

MHz

5350.000

Calculated Band-Edge Measurement (Avg):

Limit

54.0

Pol

v/h

FCC 15.209

Margin -10.9

43.1 dBuV/m

Azimuth

degrees

Detector

Pk/QP/Avg

Avg

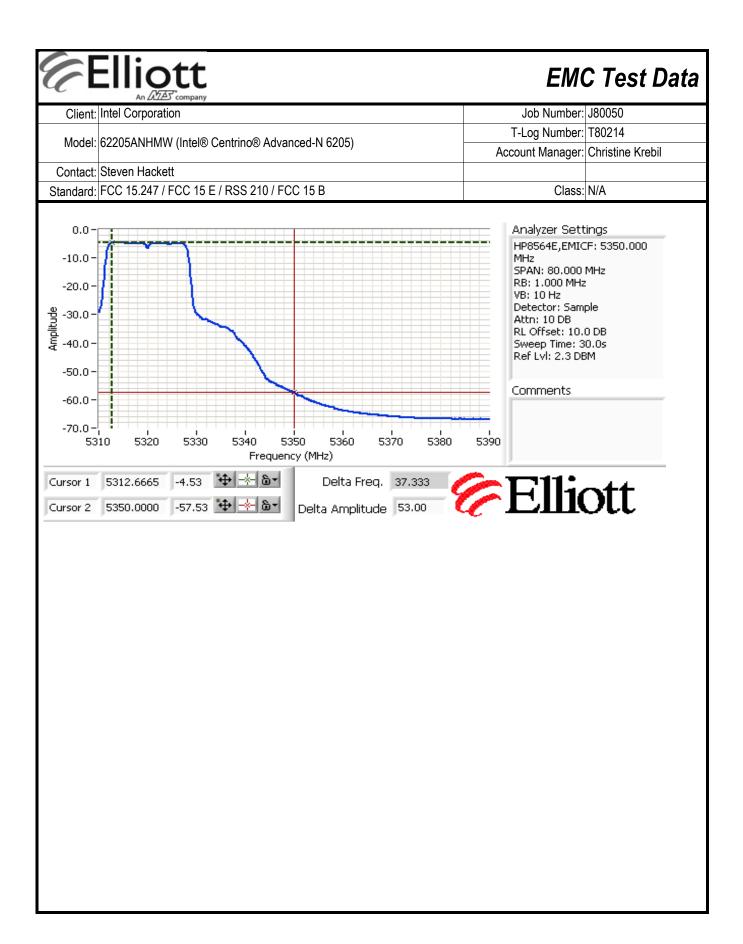
Comments

Using 1MHz delta value

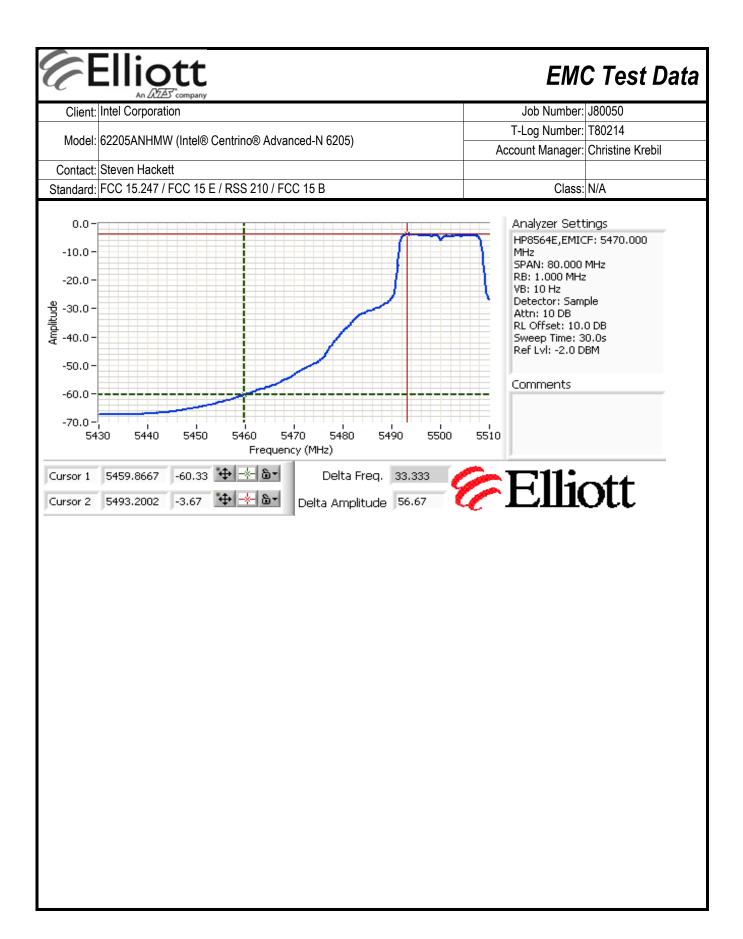
Using 1MHz delta value

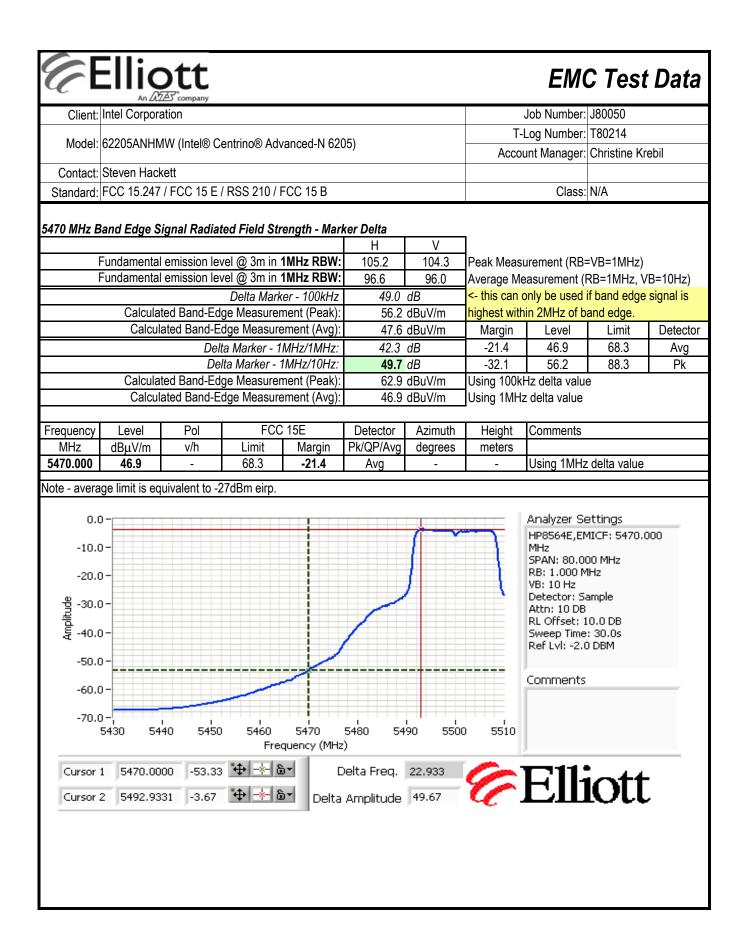
Height

meters

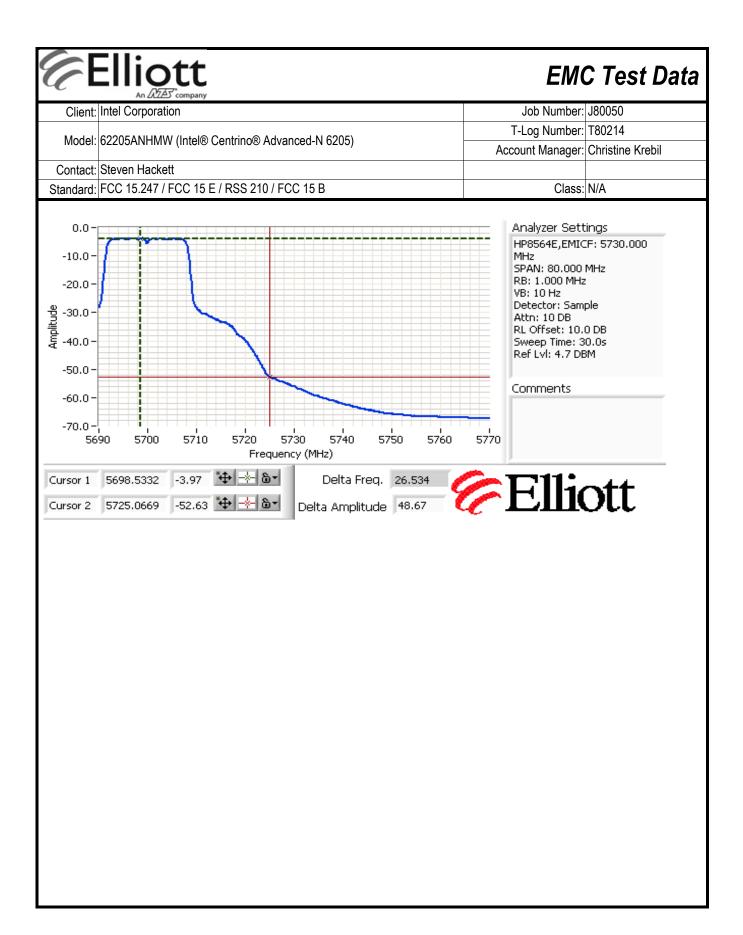


Client:	Intel Corpora	ation						Job Number:	J80050	
	0000541111	MAZ / L L L C C		1.1.00	25)		T-	Log Number:	T80214	
Model:	62205ANHI	/IW (Intel® C	entrino® Ad\	/anced-N 620	05)		Acco	unt Manager:	Christine Kre	ebil
Contact:	Steven Hack	kett								-
Standard:	FCC 15.247	/ FCC 15 E	/ RSS 210 / I	FCC 15 B				Class:	N/A	
Run # 7c, E	UT on Chan	nel #100 550	00MHz - 802	.11a, Chain	В					
					Power	Settinas			Ī	
			Target	(dBm)	Measure	-	Softwar	e Setting		
		Chain B	16	6.5	16	6.7	2	4.5		
Eundamont	al Signal Fig	eld Strength								
Frequency	Level	Pol		/ 15.247	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5493.200	96.0	V	-	-	AVG	156	1.0	RB 1 MHz;V	'B 10 Hz;Pk	
5493.500	104.3	V	-	-	PK	156	1.0	RB 1 MHz;V	B 3 MHz;Pk	
5493.270	96.6	Н	-	-	AVG	114	1.1	RB 1 MHz;V	'B 10 Hz;Pk	
5493.500	105.2	Н	-	-	PK	114	1.1	RB 1 MHz;V	B 3 MHz;Pk	
5460 MU= D	Contrinted D	and Edga Si	anal Padiate	ad Eigld Str	nath Mark	or Dolto				
)400 IVITZ K	estricted be	and Edge Si	gilai Kaulati	eu rieiu sire	e ngth - Mark e H	er Deita ∨	1			
	Fundamenta	l emission lev	vel @ 3m in	1MHz RBW:		104.3	Peak Meas	urement (RB=	=VB=1MHz)	
		l emission lev			96.6	96.0		easurement (I	,	B=10Hz)
				er - 100kHz	56.3			only be used		,
	Calcula	ted Band-Ed				dBuV/m		nin 2MHz of b	•	J
		ated Band-E				dBuV/m	Margin	Level	Limit	Detecto
		Deli	ta Marker - 1	MHz/1MHz:	49.0	dB	-14.1	39.9	54	Avg
		De	lta Marker - 1	1MHz/10Hz:	56.7	dB	-25.1	48.9	74	Pk
	Calcula	ted Band-Ed	ge Measurer	ment (Peak):	56.2	dBuV/m	Using 100k	Hz delta valu	Э	
	Calcul	ated Band-E	dge Measure	ement (Avg):	39.9	dBuV/m	Using 1MH	z delta value		
Frequency	Level	Pol	FCC ²	15.209	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
	39.9	_	54.0	-14.1	Avg	-	-	Using 1MHz	.1.161 .	





Model: 62 Contact: St Standard: FC	teven Hack	ett	entrino® Adv	vanced-N 620					J80050	
Standard: F0	CC 15.247				05)			Log Number:		.1.9
Standard: F0	CC 15.247						Acco	unt Manager:	Christine Kre	ebil
		/ ECC 15 E /	DOO 040 /	500 45 B				01	N1/A	
tun # 7d, EU1	.		RSS 210 / I	FCC 15 B				Class:	N/A	
	i on Chanr	nel #140 570)0MHz - 802	2.11a, Chain	В					
	Г				Power S	Pottings			İ	
			Tarnet	t (dBm)	Measure	-	Softwar	e Setting		
		Chain B		6.5	16	. ,		5.0		
	L	•		<u> </u>				-	I	
requency	Signal Fiel Level	Id Strength Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments		
	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	331111101110		
5706.230	94.2	V	-	-	AVG	250	1.0	RB 1 MHz;V	'B 10 Hz;Pk	
5702.370	102.5	V	-	-	PK	250	1.0	RB 1 MHz;V		
5706.900	95.2	Н	-	-	AVG	136	1.0	RB 1 MHz;V	'B 10 Hz;Pk	
703.030	103.3	Н	-	-	PK	136	1.0	RB 1 MHz;V	B 3 MHz;Pk	
Fui	ndomontal				ength - Marke		7			
		omission lov	al @ 3m in		Н	V	Pook Moos	uromont /DD-	-\/D-1MU-\	
				1MHz RBW:	H 103.3	V 102.5	-	urement (RB=	,	R=10Hz)
1 01		emission lev emission lev	vel @ 3m in	1MHz RBW: 1MHz RBW:	H 103.3 95.2	V 102.5 94.2	Average Me	easurement (F	RB=1MHz, V	,
	ndamental	emission lev	vel @ 3m in Delta Mark	1MHz RBW: 1MHz RBW: ker - 100kHz	H 103.3 95.2 47.0	V 102.5 94.2 dB	Average Me	easurement (Fonly be used i	RB=1MHz, V <mark>f band edge</mark>	
1 01	ndamental Calculate	emission lev ed Band-Edg	vel @ 3m in Delta Mark ge Measurer	1MHz RBW: 1MHz RBW: xer - 100kHz ment (Peak):	H 103.3 95.2 47.0 56.3	V 102.5 94.2 dB dBuV/m	Average Me <- this can be highest with	easurement (Fonly be used in 2MHz of b	RB=1MHz, V f band edge and edge.	signal is
1 01	ndamental Calculate	emission lev ed Band-Edg ated Band-Ed	vel @ 3m in Delta Mark ge Measurer dge Measure	1MHz RBW: 1MHz RBW: ker - 100kHz ment (Peak): ement (Avg):	H 103.3 95.2 47.0 56.3 48.2	V 102.5 94.2 dB dBuV/m dBuV/m	Average Mose this can object this can object with Margin	easurement (Fonly be used in 2MHz of ball Level	RB=1MHz, V if band edge and edge. Limit	signal is
1 01	ndamental Calculate	emission lev ed Band-Edç ated Band-Ec Delta	vel @ 3m in Delta Mark ge Measurer dge Measure	1MHz RBW: 1MHz RBW: ker - 100kHz ment (Peak): ement (Avg): MHz/1MHz:	H 103.3 95.2 47.0 56.3 48.2 41.5	V 102.5 94.2 dB dBuV/m dBuV/m	Average Mosel Average Mosel Average Mosel Margin -21.8	easurement (Fonly be used in 2MHz of b	RB=1MHz, V f band edge and edge.	signal is
1 01	Calculate Calculate	ed Band-Edg ated Band-Ed Delta Delta	Delta Mark Delta Mark ge Measurer dge Measure a Marker - 1 Ita Marker	1MHz RBW: 1MHz RBW: ker - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz:	H 103.3 95.2 47.0 56.3 48.2 41.5	V 102.5 94.2 dB dBuV/m dBuV/m	Average Me this can o highest with Margin -21.8 -32.0	easurement (Fonly be used in 2MHz of balance Level 46.5	RB=1MHz, V if band edge and edge. Limit 68.3 88.3	signal is Detect Avg
1 (1)	Calculate Calculate Calculate Calculate Calculate Calculate	emission lev ed Band-Edç ated Band-Ec Delta	vel @ 3m in Delta Mark ge Measurer dge Measure a Marker - 1 ta Marker - ge Measurer	1MHz RBW: 1MHz RBW: xer - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak):	H 103.3 95.2 47.0 56.3 48.2 41.5 48.7 61.8	V 102.5 94.2 dB dBuV/m dBuV/m dB	Average Me this can object with Margin21.832.0 Using 100k	easurement (Formuly be used in the poly be used in the poly be used in the poly between the	RB=1MHz, V if band edge and edge. Limit 68.3 88.3	signal is Detect Avg
	Calculate Calculate Calculate Calculate Calculate Calculate	ed Band-Edgated Band-Ec Delta Delta Ed Band-Edgated Band-Edgated	Delta Mark ge Measurer dge Measurer a Marker - 1 ta Marker - ge Measurer dge Measurer	1MHz RBW: 1MHz RBW: xer - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak):	H 103.3 95.2 47.0 56.3 48.2 41.5 48.7 61.8	V 102.5 94.2 dB dBuV/m dBuV/m dB dB dBuV/m	Average Me this can object with Margin21.832.0 Using 100k	easurement (Formly be used in 2MHz of bit Level 46.5 56.3 Hz delta value	RB=1MHz, V if band edge and edge. Limit 68.3 88.3	signal is Detect Avg
requency MHz	Calculate Calculate Calculate Calculate Calculate Calculate	ed Band-Edgated Ba	Delta Mark ge Measurer dge Measurer a Marker - 1 ta Marker - ge Measurer dge Measurer	1MHz RBW: 1MHz RBW: xer - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak): ement (Avg):	H 103.3 95.2 47.0 56.3 48.2 41.5 48.7 61.8 46.5	V 102.5 94.2 dB dBuV/m dBuV/m dB dB dBuV/m dB dBuV/m	Average Me this can object with Margin21.832.0 Using 100k Using 1MH:	easurement (Foolly be used in 2MHz of build	RB=1MHz, V if band edge and edge. Limit 68.3 88.3	signal is Detect Avg
requency MHz	Calculate Calculate Calculate Calculate Calculate Calculate Level	ed Band-Edgated Band-Economic Delta Delta Band-Edgated Ba	Delta Mark ge Measurer dge Measurer da Marker - 1 ta Marker - ge Measurer dge Measurer	1MHz RBW: 1MHz RBW: Mer - 100kHz ment (Peak): ement (Avg): MHz/1MHz: 1MHz/10Hz: ment (Peak): ement (Avg):	H 103.3 95.2 47.0 56.3 48.2 41.5 48.7 61.8 46.5	V 102.5 94.2 dB dBuV/m dBuV/m dB dB dB dB dBuV/m dBuV/m dBuV/m dBuV/m	Average Me this can object with Margin -21.8 -32.0 Using 100k Using 1MH:	easurement (Foolly be used in 2MHz of build	RB=1MHz, V If band edge and edge. Limit 68.3 88.3	signal is Detect Avg
requency	Calculate Calculate Calculate Calculate Calculate Calculate Above the control of	ed Band-Edgated Ba	Delta Mark ge Measurer dge Measurer dage Measurer la Marker - 1 lta Marker - 2 ge Measurer dge Measurer dge Measurer Limit 68.3	1MHz RBW: 1MHz RBW: 1MHz RBW: Mer - 100kHz Menent (Peak): MHz/1MHz: 1MHz/10Hz: ment (Peak): ment (Avg): C 15E Margin	H 103.3 95.2 47.0 56.3 48.2 41.5 48.7 61.8 46.5 Detector Pk/QP/Avg	V 102.5 94.2 dB dBuV/m dBuV/m dB dB dBuV/m dB dBuV/m dBuV/m dBuv/m dBuv/m dBuv/m	Average Me this can object with Margin -21.8 -32.0 Using 100k Using 1MH:	easurement (Fonly be used in 2MHz of build 2	RB=1MHz, V If band edge and edge. Limit 68.3 88.3	signal is Detect Avg





Client:	Intel Corporation	Job Number:	J80050
Madal	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIItel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

RSS 210 and FCC 15.E (NII) Radiated Emissions

Summary of Results

MAC Address: 001500633B14 DRTU Tool Version 1.1.3 Driver version 13.0.0.238 Sample: 1340

/					5: : 5: 5: 5: 5: : 5: 6: 6: 6: E		
Run#	Mode	Channel	Target Power	Measured Power	Test Performed	Limit	Result / Margin
First set of n	neasurement	s - center ch	annel in eacl	h band to det	ermine which mode has t	he highest emissions. SI	SO modes evaluated at
the same pe	er chain powe	er as the high	nest single ch	nain power to	cover both MIMO & SISC	operation.	
		#46	A: 16.0	A: 16.1			38.4dBµV/m @
		5230MHz	B: 16.0	B: 15.9			2485.0MHz (-15.6dB)
Run # 1	n40	#62	A: 16.0	A: 16.1	Radiated Emissions,	FCC 15.209 / 15 E	43.0dBµV/m @
Rull# I	Chain A+B	5310MHz	B: 16.0	B: 16.0	1 - 40 GHz	FGC 15.2097 15 E	10621.2MHz (-11.0dB)
		#118	A: 16.5	A: 16.4			42.7dBµV/m @
		5590MHz	B: 16.5	B: 16.5			11178.6MHz (-11.3dB)
		#40	A: 16.0	A: 16.1			44.3dBµV/m @
		5200MHz	B: 16.0	B: 16.0			7500.1MHz (-9.7dB)
Run # 2	n20	#60	A: 16.5	A: 16.5	<i>'</i>	FCC 15.209 / 15 E	43.8dBµV/m @
Rull # Z	Chain A+B	5300MHz	B: 16.5	B: 16.4	1 - 40 GHz	FGC 15.2097 15 E	10600.7MHz (-10.2dB)
		#120	A: 16.5	A: 16.7			45.8dBµV/m @
		5600MHz	B: 16.5	B: 16.5			11199.1MHz (-8.2dB)
		#40	16.0	16.3			42.9dBµV/m @
		5200MHz	16.0	10.3			7500.1MHz (-11.1dB)
	802.11a	#60	46.0	16.1	Radiated Emissions,	FCC 15.209 / 15 E	42.2dBµV/m @
	Chain A	5300MHz	16.0	10.1	1 - 40 GHz	FCC 15.2097 15 E	7500.0MHz (-11.8dB)
		#120	4C F	16.6			47.5dBµV/m @
Run # 3		5600MHz	16.5	10.0			11200.2MHz (-6.5dB)
Kull#3		#40	16.0	16.2			44.0dBµV/m @
		5200MHz	10.0	10.2			7500.0MHz (-10.0dB)
	802.11a	#60	16.0	16.2	Radiated Emissions,	FCC 15.209 / 15 E	44.0dBµV/m @
	Chain B	5300MHz	10.0	10.2	1 - 40 GHz	FGC 15.2097 15 E	7500.1MHz (-10.2dB)
		#120	16.5	16.6			44.4dBµV/m @
		5600MHz					7500.1MHz (-9.6dB)
Final measu	rements bas	ed on center	channel mea	asurements i	n each band. 802.11n 20I	MHz mode was worst cas	e in the 5150-5250 and
5250-5350 I	MHz bands.						
		#36	A: 16.0	A: 16.0			43.7dBµV/m @
Run # 4	n20	5180MHz	B: 16.0	B: 15.9	Radiated Emissions,	FCC 15.209 / 15 E	7500.1MHz (-10.3dB)
IXUIIπ T	Chain A+B	#48	A: 16.0	A: 16.0	1 - 40 GHz	100 10.2007 10 L	45.4dBµV/m @
		5240MHz	B: 16.0	B: 15.9			10478.9MHz (-22.9dB)
		#52	A: 16.0	A: 15.9			44.7dBµV/m @
Run # 4	n20	5260MHz	B: 16.0	B: 16.1	Radiated Emissions,	FCC 15.209 / 15 E	10519.2MHz (-23.6dB)
TOT I	Chain A+B	#64	A: 16.0	A: 15.9	1 - 40 GHz	. 00 10.2007 10 L	44.9dBµV/m @
		5320MHz	B: 16.0	B: 15.8			10639.6MHz (-9.1dB)



Client:	Intel Corporation	Job Number:	J80050
Model:	COOOT AND INDIVIDUAL OF CONTRACT OF A discussed ALCOOT	T-Log Number:	T80214
	62205ANHMW (Intel® Centrino® Advanced-N 6205)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Final measurements based on center channel measurements in each band. 802.11a was worst case in the 5470-5725MHz band.

Run # Mode Channel Target Power Power Test Performed Limit Result / Marg

Run#	Mode	Channel	Power	Power	Test Performed	Limit	Result / Margin
Run #4	802.11a Chain A	#100 5500MHz	16.5	16.5	Radiated Emissions,	FCC 15.209 / 15 E	41.2dBµV/m @ 10996.9MHz (-12.8dB)
		#140 5700MHz	16.5	16.4	1 - 40 GHz	FOC 15.2097 15 E	42.2dBµV/m @ 11399.8MHz (-11.8dB)
Run # 4	802.11a Chain B	#100 5500MHz	16.5	16.5	Radiated Emissions,	FCC 15.209 / 15 E	47.7dBµV/m @ 11000.3MHz (-6.3dB)
Kun # 4		#140 5700MHz	16.5	16.5	1 - 40 GHz	FOC 13.2097 13 E	42.8dBµV/m @ 11400.0MHz (-11.2dB)

Note - the target and measured power are average powers (measured with average power sensor) and are used for reference purposes only. Power is set using " GAIN CONTROL" mode in the DRTU tool.

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.

General Test Configuration

The EUT ws installed into a test fixture such that the EUT was exposed (i.e. outside of a host PC). For radiated emissions testing the measurement antenna was located 3 meters from the EUT.

Ambient Conditions: Rel. Humidity: 15 - 55 %

Temperature: 18 - 25 °C

Modifications Made During Testing

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.



Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 1, Radiated Spurious Emissions, 1-40GHz, n40, Chain A+B

Date of Test: 8/9/2010 Test Location: FT Chamber #5

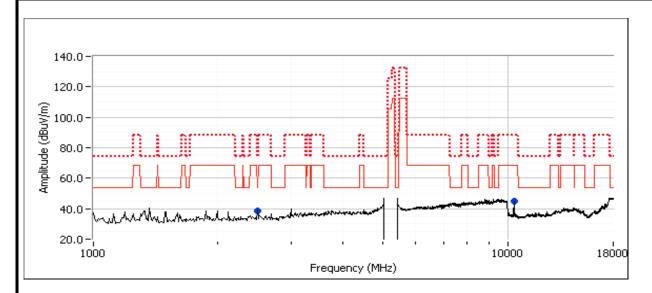
Test Engineer: Rafael Varelas Config Change: none

For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit is -27dBm eirp (68.3dBuV/m @3m). As the power measured is average power this is considered an average limit so the peak limit would be 88.3dBuV/m at 3m.

Run # 1a: EUT on Channel #46 5230MHz - n40, Chain A+B

	Power Settings										
		Target	(dBm)		Measured (dBm)				Software Setting		
Chain	Α	В	С	Total	Α	В	С	Total			
Criairi	16.0	16.0		19.0	16.1	15.9		19.0	24.5/24.5		

Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments				
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters					
2485.000	38.4	V	54.0	-15.6	Peak	321	1.3					
10453.330	45.0	V	68.3	-23.3	Peak	360	1.3					



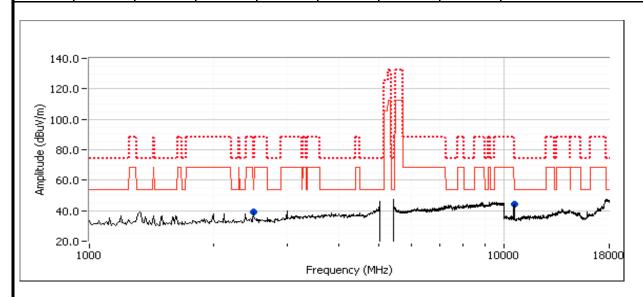


Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 1b: EUT on Channel #62 5310MHz - n40, Chain A+B

		Power Settings										
		Target	(dBm)		Measured (dBm)				Software Setting			
Chain	Α	В	С	Total	А	В	С	Total				
	16.5	16.5		19.5	16.1	16.0		19.1	25.5/26.5			

Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
10621.220	43.0	V	54.0	-11.0	AVG	0	1.0	MHz;VB 10 Hz;Pk
10621.120	55.3	V	74.0	-18.7	PK	0	1.0	MHz;VB 3 MHz;Pk
2485.000	39.2	V	54.0	-14.8	Peak	318	1.3	



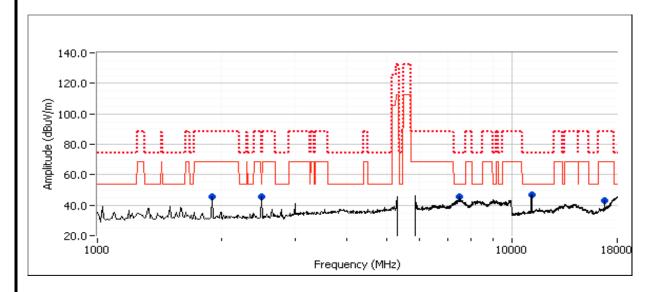


Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIMIV (IIILEI® CEITIIIIO® AUVAITCEU-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 1c: EUT on Channel #118 5590MHz - n40, Chain A+B

	Power Settings										
		Target	(dBm)		Measured (dBm)				Software Setting		
Chain	Α	В	С	Total	Α	В	С	Total			
Chain	16.5	16.5		19.5	16.4	16.5		19.5	30.5/31.0		

opanious no	purious rudiates amostories										
Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments			
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters				
11178.580	42.7	V	54.0	-11.3	AVG	226	1.0	RB 1 MHz;VB 10 Hz;Pk			
11178.880	54.3	V	74.0	-19.7	PK	226	1.0	RB 1 MHz;VB 3 MHz;Pk			
2489.940	36.8	V	54.0	-17.2	AVG	143	1.4	RB 1 MHz;VB 10 Hz;Pk			
2490.910	52.7	V	74.0	-21.3	PK	143	1.4	RB 1 MHz;VB 3 MHz;Pk			
7500.010	42.3	V	54.0	-11.7	AVG	254	1.0	RB 1 MHz;VB 10 Hz;Pk			
7500.080	50.8	V	74.0	-23.2	PK	254	1.0	RB 1 MHz;VB 3 MHz;Pk			
1889.170	45.4	V	68.3	-22.9	Peak	110	1.6				
16773.330	42.7	Н	68.3	-25.6	Peak	144	1.0				





Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
woder.	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 2, Radiated Spurious Emissions, 1-40GHz, n20, Chain A+B

Date of Test: 8/10/2010 Test Location: FT Chamber #3

Test Engineer: Rafael Varelas Config Change:

For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit is -27dBm eirp (68.3dBuV/m @3m). As the power measured is average power this is considered an average limit so the peak limit would be 88.3dBuV/m at 3m.

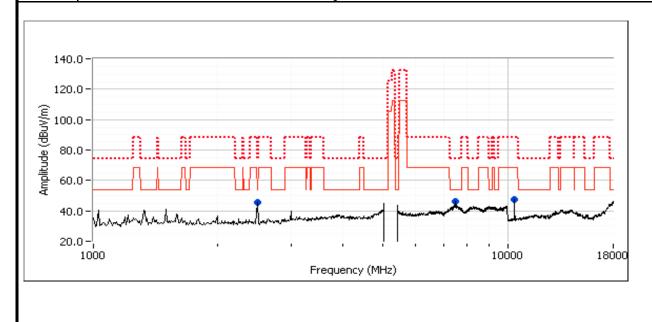
Run # 2a: EUT on Channel #40 5200MHz - n20, Chain A+B

		Power Settings								
	Target (dBm)				Measured (dBm)				Software Setting	
Chain	Α	В	С	Total	Α	В	С	Total		
Criairi	16.0	16.0		19.0	16.1	16.0		19.1	24.0/24.0	

Spurious Radiated Emissions:

Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
7500.050	44.3	V	54.0	-9.7	AVG	318	1.0	RB 1 MHz;VB 10 Hz;Pk
7500.130	51.1	V	74.0	-22.9	PK	318	1.0	RB 1 MHz;VB 3 MHz;Pk
2489.820	37.0	V	54.0	-17.0	AVG	145	1.0	RB 1 MHz;VB 10 Hz;Pk
2489.040	52.9	V	74.0	-21.1	PK	145	1.0	RB 1 MHz;VB 3 MHz;Pk
10386.670	47.6	V	68.3	-20.7	Peak	238	1.0	

Note 1: No emissions observed above 18GHz when scanning with the measurement antenna within 20cm of the device.





Client:	Intel Corporation	Job Number:	J80050
Madal	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
woder.	02203ANTIMIV (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

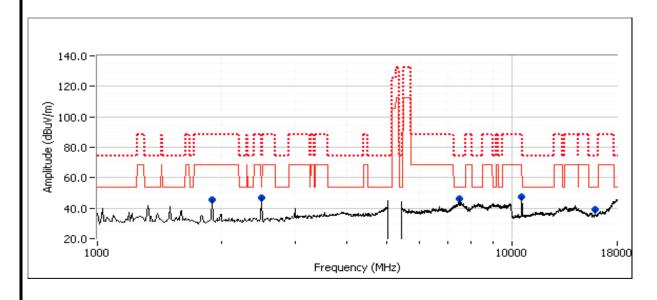
Run # 2b: EUT on Channel #60 5300MHz - n20, Chain A+B

		Power Settings								
	Target (dBm)				Measured (dBm)				Software Setting	
Chain	Α	В	С	Total	Α	В	С	Total		
Criairi	16.0	16.0		19.0	16.5	16.4		19.5	25.0/26.0	

Spurious Radiated Emissions:

Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
10600.680	43.8	V	54.0	-10.2	AVG	201	1.9	MHz;VB 10 Hz;Pk
10599.620	55.8	V	88.3	-32.5	PK	201	1.9	MHz;VB 3 MHz;Pk
1899.420	45.3	V	68.3	-23.0	Peak	159	1.3	
7500.020	43.8	V	54.0	-10.2	AVG	317	1.0	MHz;VB 10 Hz;Pk
7499.970	50.9	V	74.0	-23.1	PK	317	1.0	MHz;VB 3 MHz;Pk
2489.840	37.4	V	54.0	-16.6	AVG	147	1.0	MHz;VB 10 Hz;Pk
2488.910	53.4	V	74.0	-20.6	PK	147	1.0	MHz;VB 3 MHz;Pk
15906.670	39.0	V	54.0	-15.0	Peak	224	1.0	

Note 1: No emissions observed above 18GHz when scanning with the measurement antenna within 20cm of the device.





Client:	Intel Corporation	Job Number:	J80050
Madal	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
woder.	02203ANTIMIV (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

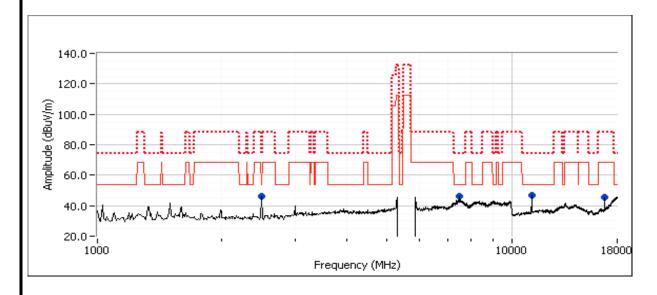
Run # 2c: EUT on Channel #120 5600MHz - n20, Chain A+B

		Power Settings								
	Target (dBm)				Measured (dBm)				Software Setting	
Chain	Α	В	С	Total	Α	В	С	Total		
Chain	16.5	16.5		19.5	16.7	16.5		19.6	30.0/30.0	

Spurious Radiated Emissions:

opanious no	<u> </u>	00.00.						
Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
11199.130	45.8	V	54.0	-8.2	AVG	225	1.4	RB 1 MHz;VB 10 Hz;Pk
11199.930	60.6	V	74.0	-13.4	PK	225	1.4	RB 1 MHz;VB 3 MHz;Pk
7500.010	42.3	V	54.0	-11.7	AVG	252	1.0	RB 1 MHz;VB 10 Hz;Pk
7499.800	50.1	V	74.0	-23.9	PK	252	1.0	RB 1 MHz;VB 3 MHz;Pk
2496.200	36.1	V	54.0	-17.9	AVG	125	1.0	RB 1 MHz;VB 10 Hz;Pk
2497.060	52.1	V	74.0	-21.9	PK	125	1.0	RB 1 MHz;VB 3 MHz;Pk
16800.000	45.6	Н	68.3	-22.7	Peak	147	1.0	
								-

Note 1: No emissions observed above 18GHz when scanning with the measurement antenna within 20cm of the device.





Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 3, Radiated Spurious Emissions, 1-40GHz, 802.11a, Chain A and Chain B

Date of Test: 8/10/2010 Test Location: FT Chamber #3

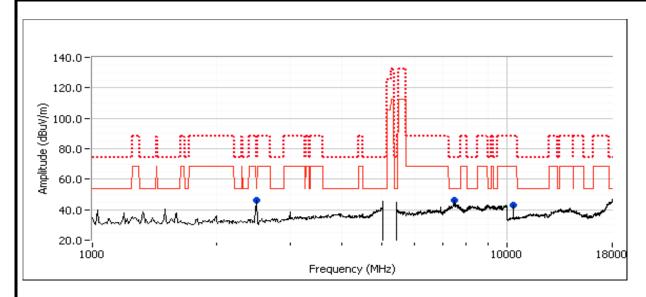
Test Engineer: Rafael Varelas Config Change:

For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit is -27dBm eirp (68.3dBuV/m @3m). As the power measured is average power this is considered an average limit so the peak limit would be 88.3dBuV/m at 3m.

Run # 3a: EUT on Channel #40 5200MHz - 802.11a, Chain A

		Power Settings							
	Target (dBm)	Measured (dBm)	Software Setting						
Chain A	16.0	16.3	20.5						

-								
Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
7500.050	42.9	V	54.0	-11.1	AVG	263	1.1	RB 1 MHz;VB 10 Hz;Pk
7499.990	50.8	V	74.0	-23.2	PK	263	1.1	RB 1 MHz;VB 3 MHz;Pk
2490.260	37.4	V	54.0	-16.6	AVG	146	1.0	RB 1 MHz;VB 10 Hz;Pk
2490.630	53.3	V	74.0	-20.7	PK	146	1.0	RB 1 MHz;VB 3 MHz;Pk
10400.000	42.7	V	68.3	-25.6	Peak	292	1.3	



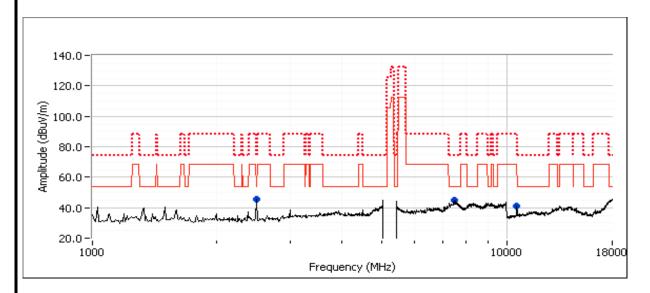


Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 3b: EUT on Channel #60 5300MHz - 802.11a, Chain A

		Power Settings						
	Target (dBm)	Measured (dBm)	Software Setting					
Chain A	16.0	16.1	20.5					

oparious N	pullous Radiated Ellissions.								
Frequency	Level	Pol	15.209) / 15E	Detector	Azimuth	Height	Comments	
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters		
7500.030	42.2	V	54.0	-11.8	AVG	253	1.0	MHz;VB 10 Hz;Pk	
7499.930	51.3	V	74.0	-22.7	PK	253	1.0	MHz;VB 3 MHz;Pk	
2496.720	37.4	V	54.0	-16.6	AVG	145	1.0	MHz;VB 10 Hz;Pk	
2497.440	53.3	V	74.0	-20.7	PK	145	1.0	MHz;VB 3 MHz;Pk	
10600.100	41.6	V	54.0	-12.4	AVG	199	1.2	MHz;VB 10 Hz;Pk	
10600.900	52.6	V	74.0	-21.4	PK	199	1.2	MHz;VB 3 MHz;Pk	



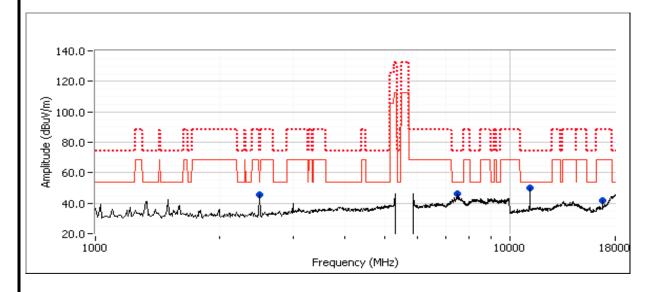


Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIWW (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 3c: EUT on Channel #120 5600MHz - 802.11a, Chain A

ſ		Power Settings					
Target (dBm) Measured (dBm) Software S				Software Setting			
ſ	Chain A	16.5	16.5	24.5			

oparious in	opanous Radiated Emissions.								
Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments	
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters		
11200.200	47.5	V	54.0	-6.5	AVG	220	1.5	RB 1 MHz;VB 10 Hz;Pk	
11201.800	58.9	V	74.0	-15.1	PK	220	1.5	RB 1 MHz;VB 3 MHz;Pk	
7500.010	43.3	V	54.0	-10.7	AVG	262	1.0	RB 1 MHz;VB 10 Hz;Pk	
7499.860	51.5	V	74.0	-22.5	PK	262	1.0	RB 1 MHz;VB 3 MHz;Pk	
2490.580	35.7	V	54.0	-18.3	AVG	125	1.0	RB 1 MHz;VB 10 Hz;Pk	
2495.520	51.5	V	74.0	-22.5	PK	125	1.0	RB 1 MHz;VB 3 MHz;Pk	
16800.000	41.8	Н	68.3	-26.5	Peak	146	1.0		



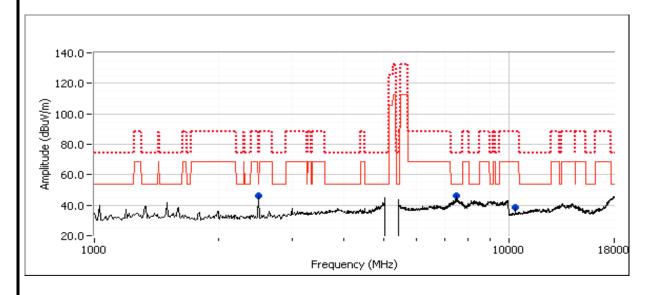


Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANHIVIV (III.el® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 3d: EUT on Channel #40 5200MHz - 802.11a, Chain B

	Power Settings						
Target (dBm) Measured (dBm) Software Se							
Chain B	16.0	16.2	20.0				

Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
7500.010	44.0	V	54.0	-10.0	AVG	78	1.0	RB 1 MHz;VB 10 Hz;Pk
7500.180	51.0	V	74.0	-23.0	PK	78	1.0	RB 1 MHz;VB 3 MHz;Pk
2490.320	37.1	Н	54.0	-16.9	AVG	154	1.0	RB 1 MHz;VB 10 Hz;Pk
2491.450	52.6	Н	74.0	-21.4	PK	154	1.0	RB 1 MHz;VB 3 MHz;Pk
10396.670	38.6	Н	68.3	-29.7	Peak	293	1.3	



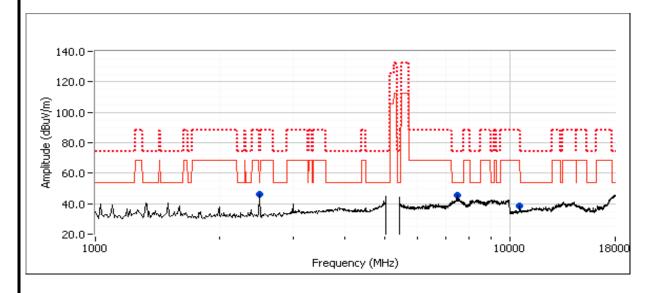


Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIWW (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 3e: EUT on Channel #60 5300MHz - 802.11a, Chain B

ĺ		Power Settings						
		Target (dBm) Measured (dBm) Software Se						
ĺ	Chain B	16.0	16.2	21.5				

oparious it	purious Rudiated Emissions.								
Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments	
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters		
7500.050	43.8	V	54.0	-10.2	AVG	102	1.0	RB 1 MHz;VB 10 Hz;Pk	
7499.960	51.4	V	74.0	-22.6	PK	102	1.0	RB 1 MHz;VB 3 MHz;Pk	
2490.230	37.9	V	54.0	-16.1	AVG	153	1.0	RB 1 MHz;VB 10 Hz;Pk	
2489.960	54.3	V	74.0	-19.7	PK	153	1.0	RB 1 MHz;VB 3 MHz;Pk	
10600.070	38.8	V	54.0	-15.2	AVG	187	1.1	RB 1 MHz;VB 10 Hz;Pk	
10601.070	49.2	V	74.0	-24.8	PK	187	1.1	RB 1 MHz;VB 3 MHz;Pk	



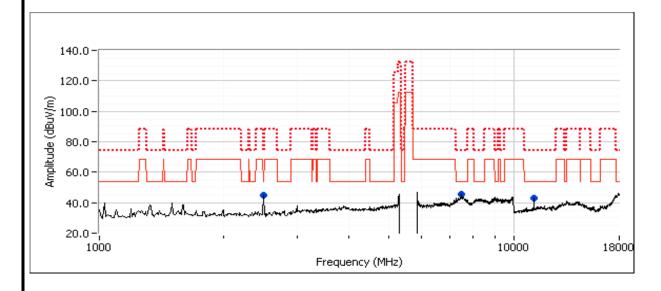


Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 3f: EUT on Channel #120 5600MHz - 802.11a, Chain B

Ī			Power Settings	
		Target (dBm)	Measured (dBm)	Software Setting
ĺ	Chain B	16.5	16.6	25.0

oparious in	Sparious Radiated Emissions.											
Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments				
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters					
7500.050	44.4	V	54.0	-9.6	AVG	264	1.0	RB 1 MHz;VB 10 Hz;Pk				
7499.780	51.5	V	74.0	-22.5	PK	264	1.0	RB 1 MHz;VB 3 MHz;Pk				
2496.460	36.7	V	54.0	-17.3	AVG	152	1.0	RB 1 MHz;VB 10 Hz;Pk				
2498.920	52.2	V	74.0	-21.8	PK	152	1.0	RB 1 MHz;VB 3 MHz;Pk				
11198.090	40.8	V	54.0	-13.2	AVG	227	1.9	RB 1 MHz;VB 10 Hz;Pk				
11193.490	51.5	V	74.0	-22.5	PK	227	1.9	RB 1 MHz;VB 3 MHz;Pk				





10360.000

46.0

EMC Test Data

	· · · · · · · · · · · · · · · · · · ·		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIMIV (IIILEI® CEITIIIIO® AUVAITCEU-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 4, Radiated Spurious Emissions, 1-40GHz, n20, Chain A+B

Date of Test: 8/10/2010 Test Location: FT Chamber #3

-22.3

68.3

Test Engineer: Rafael Varelas Config Change: none

For emissions in restricted bands, the limit of 15.209 was used. For all other emissions, the limit is -27dBm eirp (68.3dBuV/m @3m). As the power measured is average power this is considered an average limit so the peak limit would be 88.3dBuV/m at 3m.

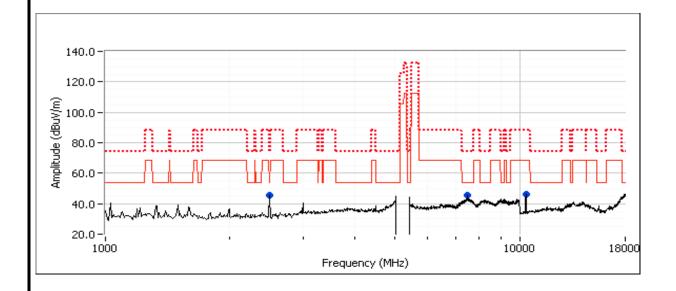
Run # 4a: EUT on Channel #36 5180MHz - n20, Chain A+B

		Power Settings										
		Target	(dBm)		Measured (dBm)				Software Setting			
Chain	Α	В	С	Total	Α	В	С	Total				
Gilaili	16.0	16.0		19.0	16.0	15.9		19.0	23.5/23.5			
Spurious R	Spurious Radiated Emissions:											
Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments				
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters					
7500.120	43.7	V	54.0	-10.3	AVG	254	1.0	RB 1 MHz;V	'B 10 Hz;Pk			
7499.950	50.3	V	74.0	-23.7	PK	254	1.0	RB 1 MHz;V	B 3 MHz;Pk			
2489.770	37.5	V	54.0	-16.5	AVG	148	1.0	RB 1 MHz;V	'B 10 Hz;Pk			
2488 770	53 <i>I</i>	V	7 <u>4</u> N	-20.6	PΚ	148	1.0	RR 1 MHz·\/	/B 3 MHz·Pk			

Peak

299

1.3





	The state of the s		
Client:	Intel Corporation	Job Number:	J80050
Model	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

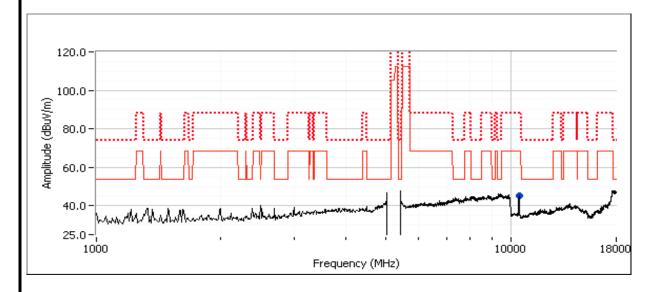
Run # 4b: EUT on Channel #48 5240MHz - n20, Chain A+B

Date of Test: 8/11/2010 Test Location: FT Chamber #3

Test Engineer: Mehran B./Rafael V. Config Change: none

		Power Settings										
		Target (dBm) Measured (dBm)				Software Setting						
Chain	Α	В	С	Total	Α	В	С	Total				
Chain	16.0	16.0		19.0	16.0	15.9		19.0	24.0 / 25.0			

opanoae n	purious rualius amosioner											
Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments				
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters					
10478.900	45.4	V	68.3	-22.9	AVG	189	1.3	RB 1 MHz;VB 10 Hz;Pk				
10480.030	59.3	V	88.3	-29.0	PK	189	1.3	RB 1 MHz;VB 3 MHz;Pk				



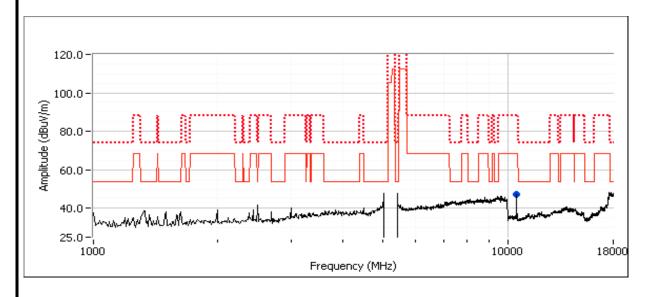


Client:	Intel Corporation	Job Number:	J80050
Model	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
woder.	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 4c: EUT on Channel #52 5260MHz - n20, Chain A+B

		Power Settings										
		Target	(dBm)		Measured (dBm)				Software Setting			
Chain	Chain A B C Total				Α	В	С	Total				
Gilaili	(nain					19.0	24.0 / 25.5					

Frequency	Level	Pol	15.209 / 15E		Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
10519.230	44.7	V	68.3	-23.6	AVG	136	1.3	RB 1 MHz;VB 10 Hz;Pk		
10520.230	57.0	V	88.3	-31.3	PK	136	1.3	RB 1 MHz;VB 3 MHz;Pk		



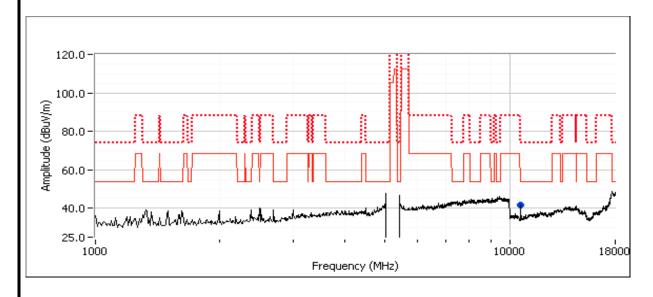


Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIMIW (IIILEI® CEITIIIIO® AUVAITCEU-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 4d: EUT on Channel #64 5320MHz - n20, Chain A+B

		Power Settings										
		Target	(dBm)		Measured (dBm)				Software Setting			
Chain	Α	В	С	Total	Α	В	С	Total				
Gliaili	16.0	16.0		19.0	15.9	15.8		18.9	24.5 / 26.0			

Frequency	Level	Pol	15.209 / 15E		Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
10639.570	44.9	V	54.0	-9.1	AVG	298	1.8	RB 1 MHz;VB 10 Hz;Pk
10640.170	57.0	V	74.0	-17.0	PK	298	1.8	RB 1 MHz;VB 3 MHz;Pk



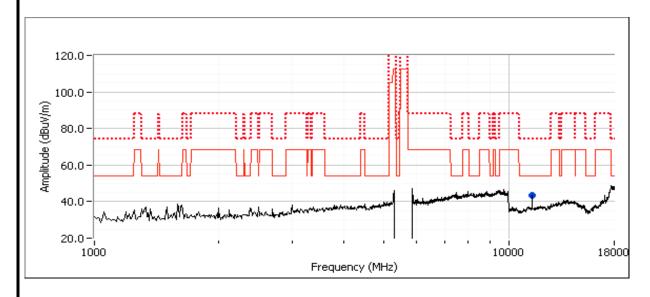


Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIMIW (IIILEI® CEITIIIIO® AUVAITCEU-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 4e: EUT on Channel #100 5500MHz - 802.11a, Chain A

		Power Settings										
		Target	t (dBm)		Measured (dBm)				Software Setting			
Chain	Α	В	С	Total	Α	В	С	Total				
Cilalii	16.5			16.5	16.5			16.5	24.0			

Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
10996.930	41.2	Η	54.0	-12.8	AVG	226	1.5	RB 1 MHz;VB 10 Hz;Pk
10996.930	52.8	Н	74.0	-21.2	PK	226	1.5	RB 1 MHz;VB 3 MHz;Pk



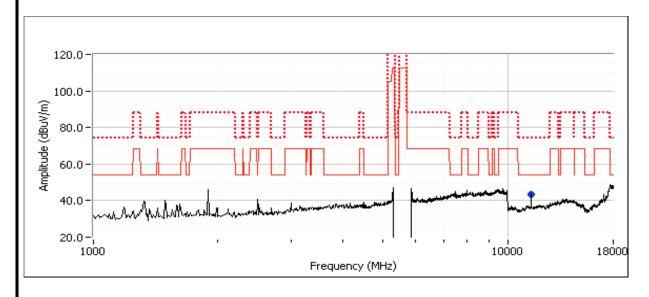


Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANT INVIV (ITILEI® CETITITIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 4f: EUT on Channel #140 5700MHz - 802.11a, Chain A

		Power Settings										
		Target	t (dBm)		Measured (dBm)				Software Setting			
Chain	Α	В	С	Total	Α	В	С	Total				
Gliaili	16.5			16.5	16.4			16.4	25.5			

Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
11399.800	42.2	Η	54.0	-11.8	AVG	225	1.5	RB 1 MHz;VB 10 Hz;Pk
11396.500	53.9	Н	74.0	-20.1	PK	225	1.5	RB 1 MHz;VB 3 MHz;Pk



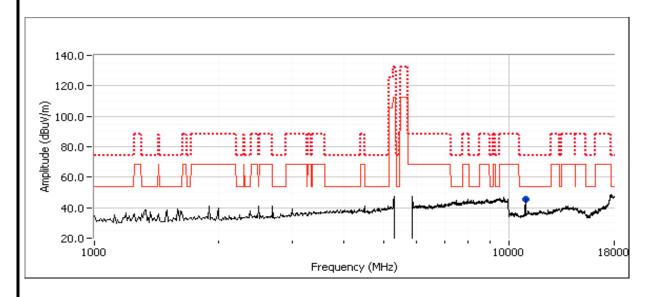


Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIMIW (IIILEI® CEITIIIIO® AUVAITCEU-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 4g: EUT on Channel #100 5500MHz - 802.11a, Chain B

		Power Settings										
		Target	(dBm)		Measured (dBm)				Software Setting			
Chain	Α	В	С	Total	Α	В	С	Total				
Chain		16.5		16.5		16.5		16.5	24.5			

Frequency	Level	Pol	15.209 / 15E		Detector	Azimuth	Height	Comments			
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters				
11000.340	47.7	V	54.0	-6.3	AVG	175	1.9	RB 1 MHz;VB 10 Hz;Pk			
11002.470	59.6	V	74.0	-14.4	PK	175	1.9	RB 1 MHz;VB 3 MHz;Pk			



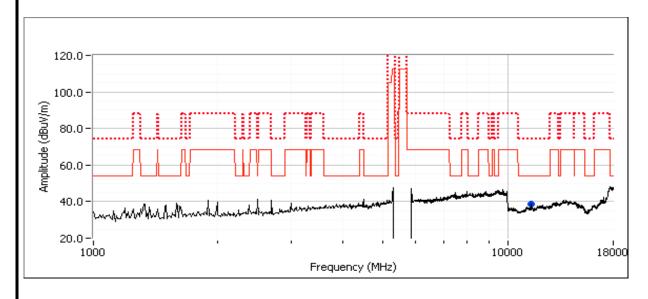


Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIMIW (IIILEI® CEITIIIIO® AUVAITCEU-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 4h: EUT on Channel #140 5700MHz - 802.11a, Chain B

		Power Settings							
	Target (dBm) Measured (dBm)					Software Setting			
Chain	Α	В	С	Total	Α	В	С	Total	
Cilalii		16.5		16.5		16.5		16.5	25.5

Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
11400.000	42.8	V	54.0	-11.2	AVG	232	1.3	RB 1 MHz;VB 10 Hz;Pk
11400.770	53.9	V	74.0	-20.1	PK	232	1.3	RB 1 MHz;VB 3 MHz;Pk



EI!	liott An AZAS company
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	An 222 Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

RSS 210 Receiver Spurious Radiated Emissions (LELAN bands)

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.

General Test Configuration

The EUT ws installed into a test fixture such that the EUT was exposed (i.e. outside of a host PC). For radiated emissions testing the measurement antenna was located 3 meters from the EUT.

Summary of Results

MAC Address: 001500633B14 DRTU Tool Version 1.1.3 Driver version 13.0.0.238 Sample: 1340

Run#	Mode	Channel	Taiget	ivieasureu	Test Performed	Limit	Result / Margin			
	<u> </u>	rious measurements for the 5.7GHz band indicated that there were no significant differences in emiss								
					•					
and Chain A + B and emissions on Chain A were lower than both Chain B and Chain A+B. Measurements were made with both chains										
active and only repeated on the individual chains for frequencies where the margin was less than 10dB.										
		#40					40.7dBµV/m @			
	roccivo	5200MHz	-	-			9520.0MHz (-13.3dB)			
D # 1	receive	#60			Radiated Emissions,	DCC 040	44.6dBµV/m @			
Run # 1	mode	5300MHz	-	-	1 - 18 GHz	RSS 210	7500.0MHz (-9.4dB)			
	Chain A+B	#120				İ	44.7dBµV/m @			
		5600MHz	-	-			7500.1MHz (-9.3dB)			
		#40					Dual chain had > 10dB			
		5200MHz	-	-		D00 040	margin			
D # 0	receive	#60			Radiated Emissions, 1 - 18 GHz		44.6dBµV/m @			
Run # 2	mode	5300MHz	-	-		RSS 210	7500.0MHz (-9.4dB)			
	Chain A	#120					44.5dBµV/m @			
		5600MHz	-	-			7500.0MHz (-9.5dB)			
		#40					Dual chain had > 10dB			
		5200MHz	-	-			margin			
D "0	receive	#60			Radiated Emissions,	500.040	43.7dBµV/m @			
Run # 3	mode	5300MHz	-	-	1 - 18 GHz	RSS 210	7500.1MHz (-10.3dB)			
	Chain B	#120					44.4dBµV/m @			
		5600MHz	-	-			7500.0MHz (-9.6dB)			



	An ZAZZZ company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Ambient Conditions:

Rel. Humidity: 15 - 55 % Temperature: 18 - 25 °C

Modifications Made During Testing

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.

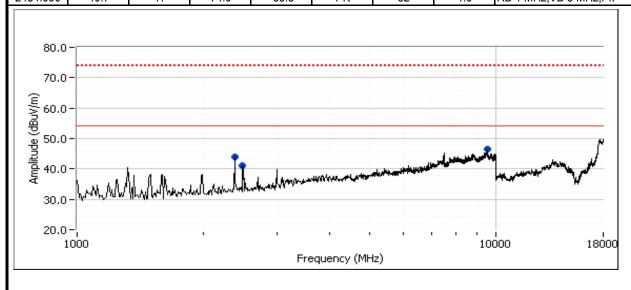
Run # 1, Radiated Spurious Emissions, 1-18GHz, Receive Mode, Chain A+B

Date of Test: 8/11/2010 Test Location: FT Chamber #3

Test Engineer: Rafael Varelas Config Change: none

Run # 1a: EUT on Channel #40 5200MHz - Receive Mode, Chain A+B

Opanoac n		00.00.						
Frequency	Level	Pol	RSS	S210	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
9519.950	40.7	V	54.0	-13.3	AVG	61	1.1	RB 1 MHz;VB 10 Hz;Pk
9515.150	51.9	V	74.0	-22.1	PK	61	1.1	RB 1 MHz;VB 3 MHz;Pk
2372.380	29.8	V	54.0	-24.2	AVG	147	1.0	RB 1 MHz;VB 10 Hz;Pk
2372.020	41.6	V	74.0	-32.4	PK	147	1.0	RB 1 MHz;VB 3 MHz;Pk
2487.800	28.9	Н	54.0	-25.1	AVG	32	1.0	RB 1 MHz;VB 10 Hz;Pk
2484.050	40.7	Н	74.0	-33.3	PK	32	1.0	RB 1 MHz:VB 3 MHz:Pk

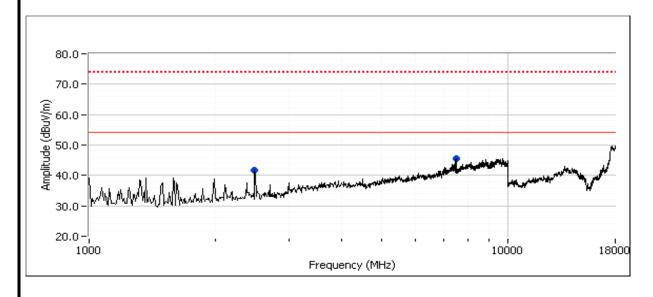




Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIMIV (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 1b: EUT on Channel #60 5300MHz - Receive Mode, Chain A+B

Frequency	Level	Pol	RSS	S210	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
7500.030	44.6	V	54.0	-9.4	AVG	87	1.0	RB 1 MHz;VB 10 Hz;Pk
7499.630	51.3	V	74.0	-22.7	PK	87	1.0	RB 1 MHz;VB 3 MHz;Pk
2489.800	33.7	V	54.0	-20.3	AVG	146	1.0	RB 1 MHz;VB 10 Hz;Pk
2495.700	50.8	V	74.0	-23.2	PK	146	1.0	RB 1 MHz;VB 3 MHz;Pk

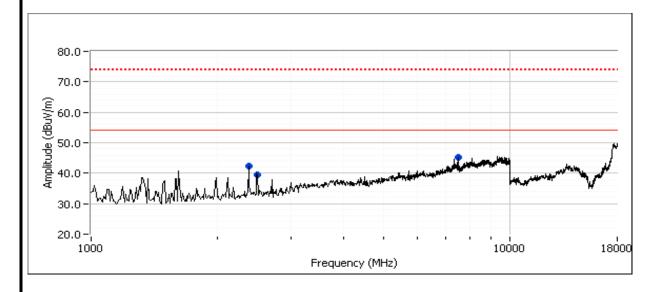




	All Dates Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANT INVV (ITIEN CETITITO Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 1c: EUT on Channel #120 5600MHz - Receive Mode, Chain A+B

Frequency	Level	Pol	RSS	3210	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
7500.050	44.7	V	54.0	-9.3	AVG	87	1.0	RB 1 MHz;VB 10 Hz;Pk
7500.620	52.9	V	74.0	-21.1	PK	87	1.0	RB 1 MHz;VB 3 MHz;Pk
2378.160	29.8	V	54.0	-24.2	AVG	0	1.0	RB 1 MHz;VB 10 Hz;Pk
2377.960	42.1	V	74.0	-31.9	PK	0	1.0	RB 1 MHz;VB 3 MHz;Pk
2497.170	33.1	V	54.0	-20.9	AVG	140	1.0	RB 1 MHz;VB 10 Hz;Pk
2497.000	50.3	V	74.0	-23.7	PK	140	1.0	RB 1 MHz;VB 3 MHz;Pk





Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIItel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

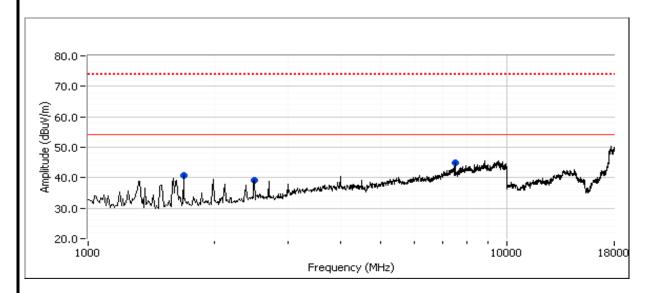
Run # 2, Radiated Spurious Emissions, 1-18GHz, Receive Mode, Chain A

Date of Test: 8/11/2010 Test Location: FT Chamber #3

Test Engineer: Rafael Varelas Config Change: none

Run # 2b: EUT on Channel #60 5300MHz - Receive Mode, Chain A

Frequency	Level	Pol	RSS	S210	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
7500.000	44.6	V	54.0	-9.4	AVG	86	1.0	RB 1 MHz;VB 10 Hz;Pk		
7499.830	52.3	V	74.0	-21.7	PK	86	1.0	RB 1 MHz;VB 3 MHz;Pk		
1691.880	40.8	Н	54.0	-13.2	Peak	47	1.0			
2517.770	39.0	V	54.0	-15.0	Peak	145	1.0			

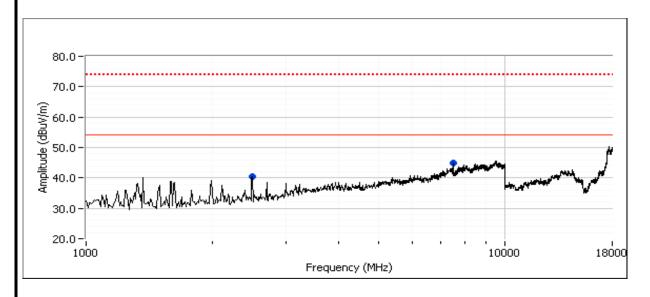




Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIMIV (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 2c: EUT on Channel #120 5600MHz - Receive Mode, Chain A

0 0 0 0 1 1 0 0 1 0 1 1										
Frequency	Level	Pol	RSS	S210	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
7500.040	44.5	V	54.0	-9.5	AVG	90	1.0	RB 1 MHz;VB 10 Hz;Pk		
7500.150	51.5	V	74.0	-22.5	PK	90	1.0	RB 1 MHz;VB 3 MHz;Pk		
2499.510	40.3	V	54.0	-13.7	Peak	119	1.0			





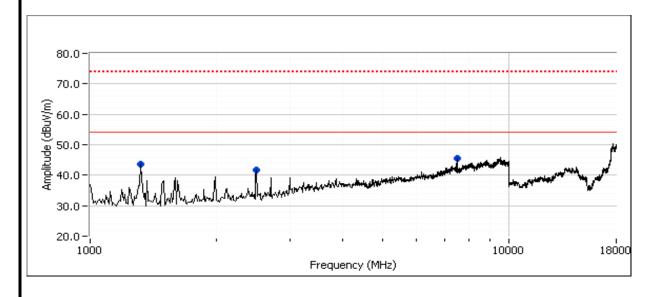
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIMIV (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 3, Radiated Spurious Emissions, 1-18GHz, Receive Mode, Chain B

Date of Test: 8/11/2010 Test Location: FT Chamber #3
Test Engineer: Rafael Varelas Config Change: none

Run # 3b: EUT on Channel #60 5300MHz - Receive Mode, Chain B

	, , , , , , , , , , , , , , , , , , ,								
Frequency	Level	Pol	RSS	S210	Detector	Azimuth	Height	Comments	
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters		
7500.090	43.7	V	54.0	-10.3	AVG	86	1.0	MHz;VB 10 Hz;Pk	
7500.270	51.7	V	74.0	-22.3	PK	86	1.0	MHz;VB 3 MHz;Pk	
1329.560	37.9	V	54.0	-16.1	AVG	243	1.0	MHz;VB 10 Hz;Pk	
1326.830	49.5	V	74.0	-24.5	PK	243	1.0	MHz;VB 3 MHz;Pk	
2491.930	41.8	V	54.0	-12.2	Peak	148	1.0		

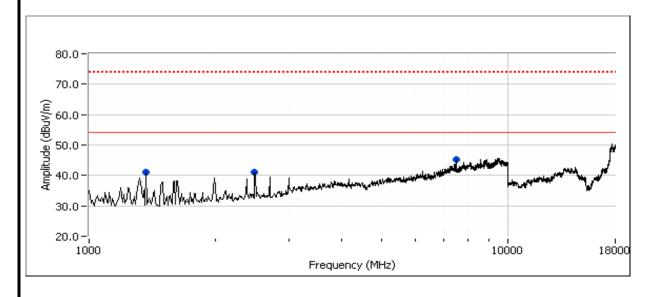




Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIMIV (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run # 3c: EUT on Channel #120 5600MHz - Receive Mode, Chain B

Frequency	Level	Pol	RSS	S210	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
7500.030	44.4	V	54.0	-9.6	AVG	90	1.0	RB 1 MHz;VB 10 Hz;Pk
7500.040	52.0	V	74.0	-22.0	PK	90	1.0	RB 1 MHz;VB 3 MHz;Pk
1355.030	41.0	V	54.0	-13.0	Peak	200	1.3	
2500.590	41.2	V	54.0	-12.8	Peak	150	1.0	



Elliott An ATAS company	EMC Test Data
Client: Intel Corporation	Job Number: J80050
Model: 62205ANHMW (Intel® Contring® Advanced N 6205)	T-Log Number: T80214
Model: 62205ANHMW (Intel® Centrino® Advanced-N 6205)	Account Manager: Christine Krebil

RSS-210 (LELAN) and FCC 15.407(UNII) Antenna Port Measurements, SISO Mode Chain A Power, PSD, Peak Excursion, Bandwidth and Spurious Emissions

Test Specific Details

Contact: Steven Hackett

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

Standard: FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B

Date of Test: 8/17/2010 Config. Used: 1 Test Engineer: Rafael Varelas Config Change: None Test Location: FT Lab #3 Host Unit Voltage 120V/60Hz

Summary of Results

Run #	Test Performed	Limit	Pass / Fail	Result / Margin
1	Power, 5150 - 5250MHz	15.407(a) (1), (2)	Pass	802.11a: 27.5 mW 802.11n 20MHz: 27.5 mW 802.11n n40MHz: 29.5 mW
1	PSD, 5150 - 5250MHz	15.407(a) (1), (2)	Pass	802.11a: 1.8 dBm/MHz 802.11n 20MHz: 1.6 dBm/MHz 802.11n n40MHz: -0.6 dBm/MHz
1	Power, 5250 - 5350MHz	15.407(a) (1), (2)	Pass	802.11a: 27.5 mW 802.11n 20MHz: 27.5 mW 802.11n n40MHz: 28.8 mW
1	PSD, 5250 - 5350MHz	15.407(a) (1), (2)	Pass	802.11a: 1.6 dBm/MHz 802.11n 20MHz: 1.8 dBm/MHz 802.11n n40MHz: -0.8 dBm/MHz
1	Power, 5470 - 5725MHz	15.407(a) (1), (2)	Pass	802.11a: 33.1 mW 802.11n 20MHz: 32.4 mW 802.11n n40MHz: 31.6 mW
1	PSD, 5470 - 5725MHz	15.407(a) (1), (2)	Pass	802.11a: 2.5 dBm/MHz 802.11n 20MHz: 2.2 dBm/MHz 802.11n n40MHz: -0.2 dBm/MHz
1	26dB Bandwidth	15.407 (Information only)	-	> 20MHz for all modes
1	99% Bandwidth	RSS 210 (Information only)	N/A	802.11a: 18 MHz 802.11n 20MHz: 18.8 MHz 802.11n n40MHz: 37.1 MHz
2	Peak Excursion Envelope	15.407(a) (6) 13dB	Pass	11.9 dB
3	Antenna Conducted - Out of Band Spurious	15.407(b) -27dBm/MHz	Pass	All emissions below the -27dBm/MHz limit

Class: N/A

Christine Krebil

EI	liott
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An ACE company								
Client:	Intel Corporation	Job Number:	J80050					
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214					
	02203ANTIWW (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil					
Contact:	Steven Hackett							
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A					

General Test Configuration

When measuring the conducted emissions from the EUT's antenna port, the antenna port of the EUT was connected to the spectrum analyzer or power meter via a suitable attenuator to prevent overloading the measurement system. All measurements are corrected to allow for the external attenuators and cables used.

Ambient Conditions:

Temperature: 22.5 °C Rel. Humidity: 43 %

Modifications Made During Testing

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.

	Output power measured using a spectrum analyzer (see plots below). RBW=1MHz, VB=3 MHz, sample detector, power
Note 1:	averaging on (transmitted signal was continuous) and power integration over 40MHz (n20) or 80 MHz (n40) - method 1 of DA
	02-2138A1.

Note 2: Measured using the same analyzer settings used for output power.

For RSS-210 the limit for the 5150 - 5250 MHz band accounts for the antenna gain as the maximum eirp allowed is 10dBm/MHz. The limits are also corrected for instances where the highest measured value of the PSD exceeds the average PSD (calculated from the measured power divided by the measured 99% bandwidth) by more than 3dB by the amount that the measured value exceeds the average by more than 3dB.

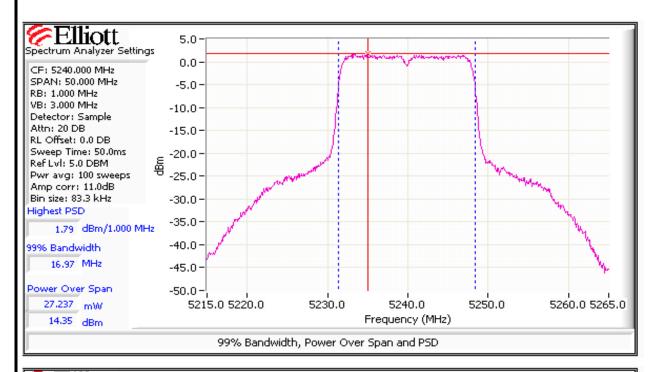
Note 4: 99% Bandwidth measured in accordance with RSS GEN - RB > 1% of span and VB >=3xRB

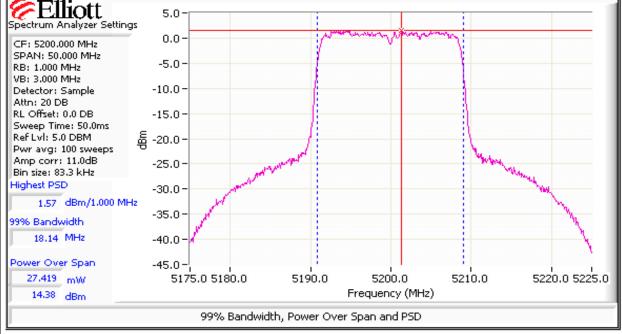
Single Chain Operation, 5150-5250MHz Band - Chain A

	Antenna	a Gain (dBi):	3.7		EIRP:	64.6	mW	18.1	dBm	
Frequency Software Setting /		Band	andwidth Output Po		wer ¹ dBm	Power	wer PSD ² d		Hz	Result
(MHz)	Pout	26dB	99% ⁴	Measured	Limit	(Watts)	Measured	FCC Limit	RSS Limit ³	Nesuit
802.11a										
5180	21 / 16.1	36.2	17.1	14.3	17.0	0.027	1.7	4.0	6.3	Pass
5200	21 / 16	36.4	17.0	14.2	17.0	0.026	1.6	4.0	6.3	Pass
5240	21.5 / 16.1	36.7	17.0	14.4	17.0	0.028	1.8	4.0	6.3	Pass
802.11n 20l	MHz									
5180	20.5 / 15.6	40.3	18.1	13.6	17.0	0.023	1.0	4.0	6.3	Pass
5200	21.5 / 16.1	43.0	18.1	14.4	17.0	0.028	1.6	4.0	6.3	Pass
5240	21.5 / 16.1	43.0	18.1	14.2	17.0	0.026	1.3	4.0	6.3	Pass
802.11n 40l	MHz									
5190	16 / 11.1	40.3	36.1	9.3	17.0	0.009	-6.1	4.0	6.3	Pass
5230	22.5 / 16.1	65.8	36.3	14.7	17.0	0.029	-0.6	4.0	6.3	Pass
	•			•					•	



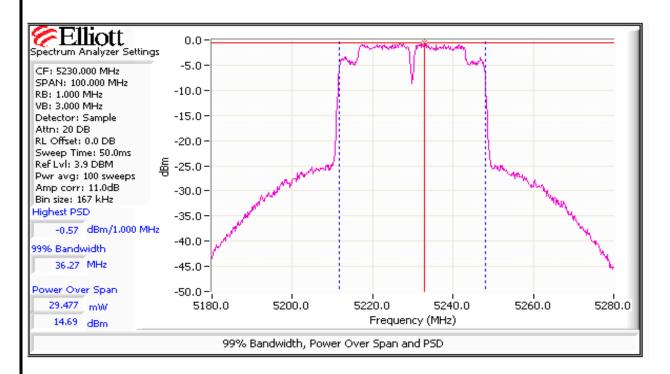
	An ZXZED company		
Client:	Intel Corporation	Job Number:	J80050
Modal:	62205 ANHMIN (Intol® Contring® Advanced N 6205)	T-Log Number:	T80214
Model.	62205ANHMW (Intel® Centrino® Advanced-N 6205)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A







	An 2022 company		
Client:	Intel Corporation	Job Number:	J80050
Madal	62205 ANUMW (Intol® Contring® Advanced N 6205)	T-Log Number:	T80214
Model.	62205ANHMW (Intel® Centrino® Advanced-N 6205)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

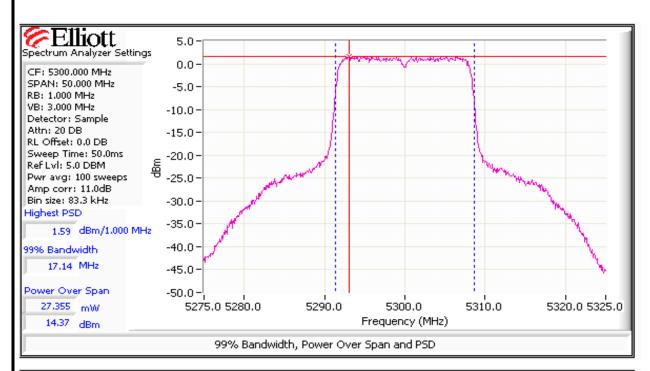


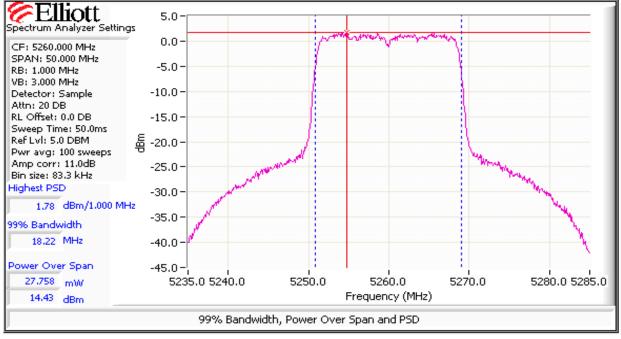
Single Chain Operation, 5250-5350 MHz Band - Chain A

	Antenna	a Gain (dBi):	3.7		EIRP:	64.6	mW	18.1	dBm	
Frequency	Software	Band	lwidth	Output Po	wer ¹ dBm	Power	Р	SD ² dBm/Ml	·lz	Result
(MHz)	Setting	26dB	99% ⁴	Measured	Limit	(Watts)	Measured	FCC Limit	RSS Limit ³	Result
802.11a										
5260	21.5 / 16.1	36.8	17.1	14.1	24.0	0.026	1.3	11.0	11.0	Pass
5300	22 / 16.2	37.9	17.1	14.4	24.0	0.028	1.6	11.0	11.0	Pass
5320	22 / 16.1	37.8	17.1	14.2	24.0	0.026	1.4	11.0	11.0	Pass
802.11n 20l	ИНz									
5260	22 / 16.2	42.5	18.2	14.4	24.0	0.028	1.8	11.0	11.0	Pass
5300	22 / 16.1	43.3	18.2	14.2	24.0	0.026	1.4	11.0	11.0	Pass
5320	22 / 16.0	43.7	18.2	14.0	24.0	0.025	1.2	11.0	11.0	Pass
802.11n 40MHz										
5270	23.5 / 16.5	70.0	36.4	14.6	24.0	0.029	-0.8	11.0	11.0	Pass
5310	17 / 11.2	40.5	36.3	9.2	24.0	0.008	-6.2	11.0	11.0	Pass



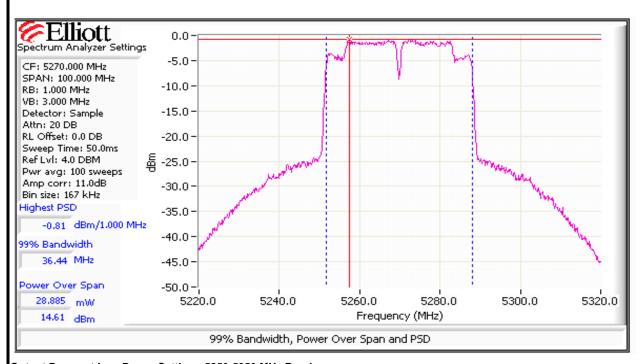
	All 2023 Company		
Client:	Intel Corporation	Job Number:	J80050
Model: 622	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A







	An A7A) company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANT INVIVI (ITILEI® CETILITIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A



Output Power at Low Power Setting - 5250-5350 MHz Band

EIRP does not exceed 500mW, therefore TPC is not required and measurements at a low power setting are not required.

Single Chain Operation, 5470- 5725 MHz Band, Chain A

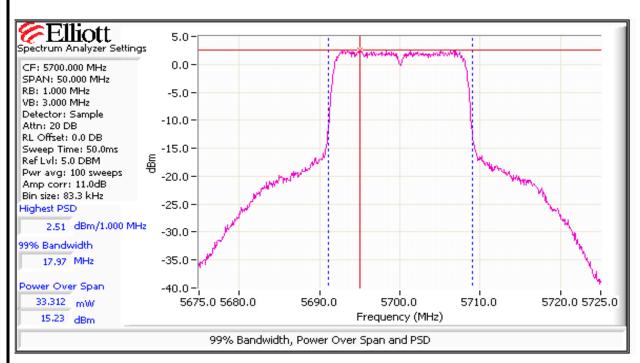
3.0	Antenna	a Gain (dBi):	4.8		EIRP:	100.0	mW	20.0	dBm	
Frequency		\ /	width	Output Po	wer ¹ dBm	Power		SD ² dBm/Ml		D 11
(MHz)	Setting	26dB	99% ⁴	Measured	Limit	(Watts)	Measured		RSS Limit ³	Result
802.11a										
5500	25 / 16.6	39.8	17.3	14.6	24.0	0.029	2.0	11.0	11.0	Pass
5580	26.5 / 16.6	40.7	17.5	14.8	24.0	0.030	2.1	11.0	11.0	Pass
5700	28.5 / 16.6	41.0	18.0	15.2	24.0	0.033	2.5	11.0	11.0	Pass
802.11n 20l	MHz									
5500	26 / 16.7	45.4	18.6	15.0	24.0	0.032	2.2	11.0	11.0	Pass
5580	27 / 16.7	45.9	18.7	15.1	24.0	0.032	2.2	11.0	11.0	Pass
5700	28.5 / 16.5	46.7	18.8	15.0	24.0	0.032	2.1	11.0	11.0	Pass
802.11n 40l	MHz									
5510	22 / 13.7	60.5	36.3	11.7	24.0	0.015	-3.6	11.0	11.0	Pass
5550	27 / 16.5	79.2	36.8	14.7	24.0	0.029	-0.8	11.0	11.0	Pass
5670	29 / 16.5	79.7	37.1	15.0	24.0	0.031	-0.2	11.0	11.0	Pass

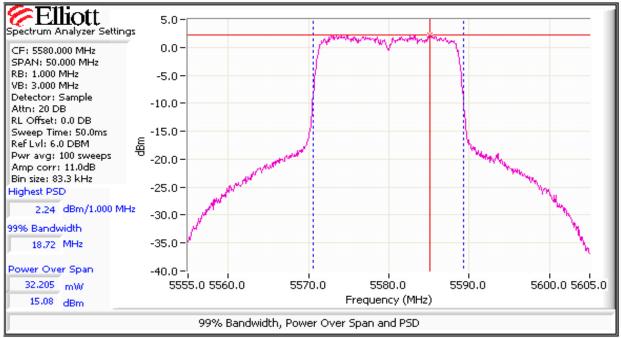
Output Power at Low Power Setting - 5470-5725 MHz Band

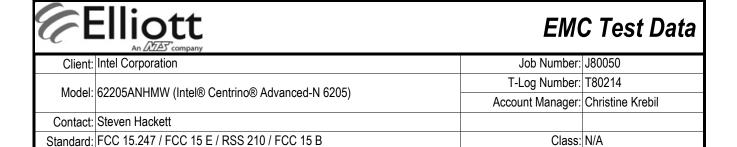
EIRP does not exceed 500mW, therefore TPC is not required and measurements at a low power setting are not required.

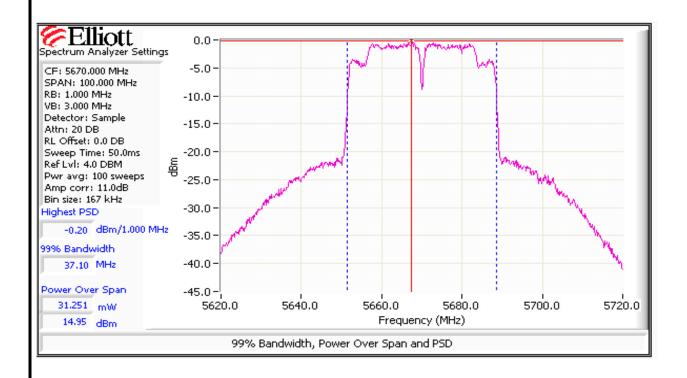


	An ZCZES company		
Client:	Intel Corporation	Job Number:	J80050
Model: 62205	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A











	An 2023 Company		
Client:	Intel Corporation	Job Number:	J80050
Model: 62 Contact: Ste	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANT INVIVI (ITILEI® CETILITIO® Advanced-N 0203)	Account Manager:	Christine Krebil
	Steven Hackett		
	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run #2: Peak Excursion Measurement

802.11a: Device meets the requirement for the peak excursion

Freq	Peak Exc	ursion(dB)	Freq	Peak Excursion(dB)		Freq	Peak Exc	ursion(dB)
(MHz)	Value	Limit	(MHz)	Value	Limit	(MHz)	Value	Limit
5180	9.7	13.0	5260	9.9	13.0	5500	9.8	13.0
5200	9.3	13.0	5300	9.7	13.0	5580	9.8	13.0
5240	9.7	13.0	5320	9.6	13.0	5700	9.9	13.0

n20MHz: Device meets the requirement for the peak excursion

	Freq	Peak Exc	cursion(dB)	Freq	Peak Exc	ursion(dB)	Freq	Peak Exc	ursion(dB)
	(MHz)	Value	Limit	(MHz)	Value	Limit	(MHz)	Value	Limit
I	5180	10.2	13.0	5260	10.8	13.0	5500	10.6	13.0
	5200	10.0	13.0	5300	10.3	13.0	5580	10.3	13.0
ľ	5240	10.3	13.0	5320	10.5	13.0	5700	10.3	13.0

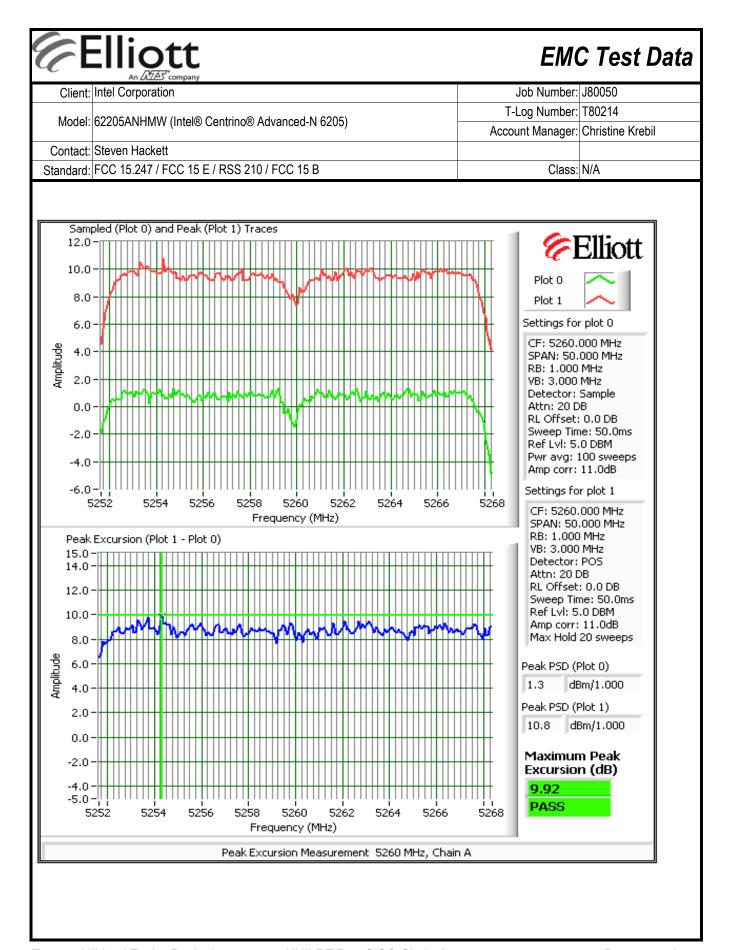
n40MHz: Device meets the requirement for the peak excursion

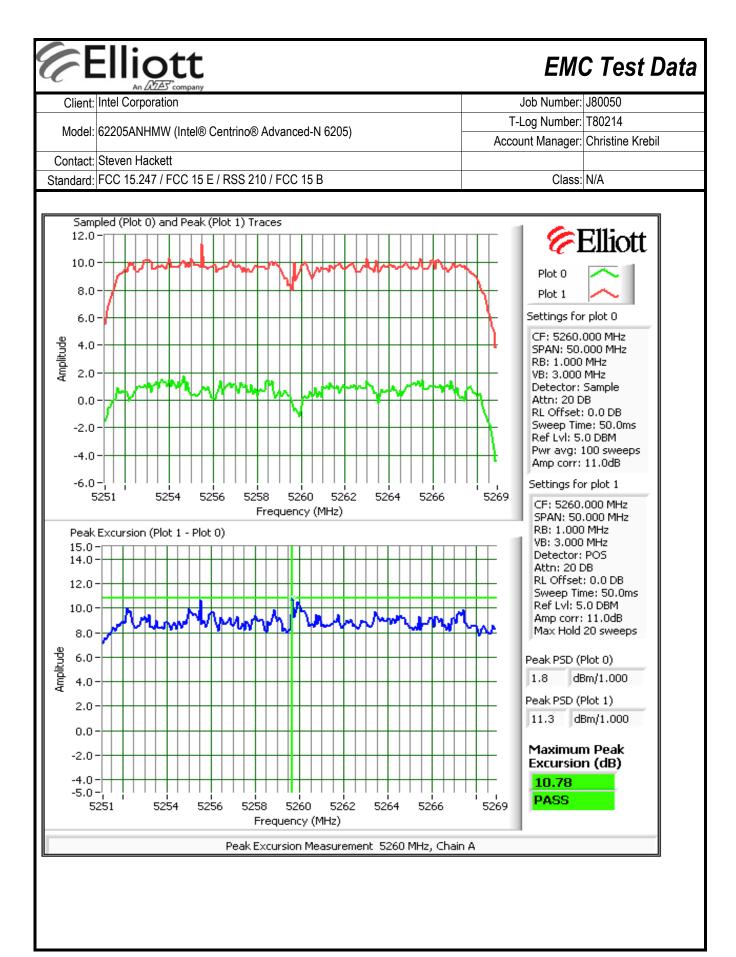
Freq	Peak Exc	ursion(dB)	Freq	Freq Peak Excursion(dB)		Freq	Peak Excursion(dB)	
(MHz)	Value	Limit	(MHz)	Value	Limit	(MHz)	Value	Limit
5190	11.7	13.0	5270	11.2	13.0	5510	11.3	13.0
5230	10.5	13.0	5310	11.6	13.0	5550	11.9	13.0
						5670	11.7	13.0

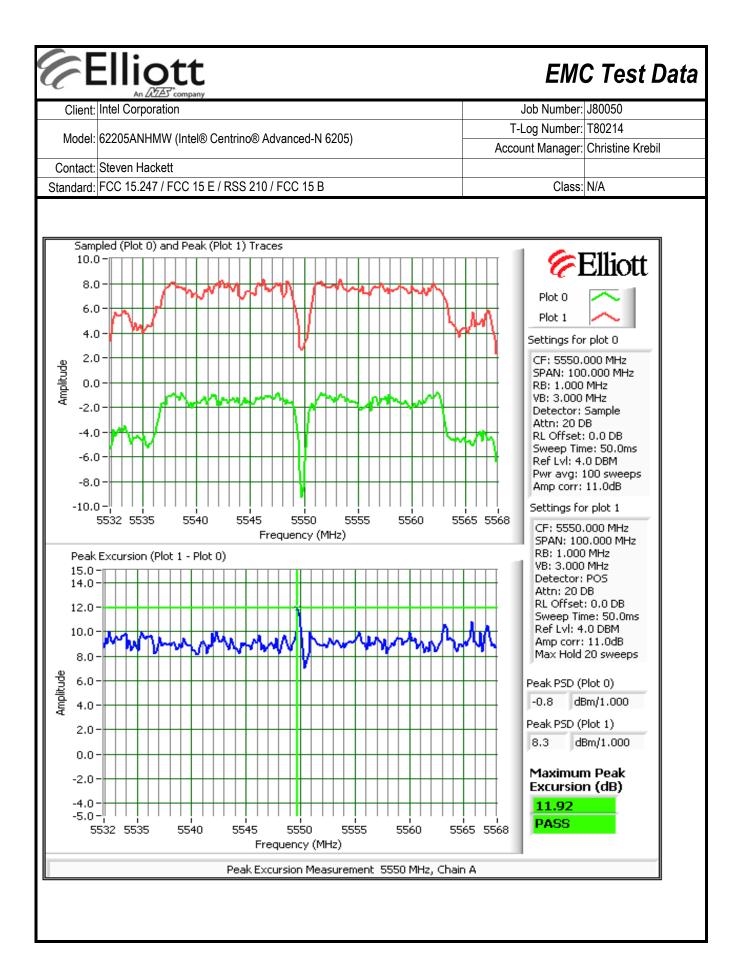
Plots Showing Peak Excursion

Trace A: RBW = 1MHz, VBW = 3MHz, Peak hold

Trace B: Same settings as used for power/PSD measurements (RBW = 1 MHz, VBW = 3MHz, Integrated average power)









An ZAZES company			
Client:	Intel Corporation	Job Number:	J80050
Madal	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number: T802	
Model.	02200ANT INVV (ITTEN® CETTITIO® Advanced-IV 0200)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run #3: Out Of Band Spurious Emissions - Antenna Conducted

802.11a Maximum Antenna Gain: 4.8 dBi

Spurious Limit: -27.0 dBm/MHz eirp

Limit Used On Plots Note 1: -31.8 dBm/MHz Average Limit (RB=1MHz, VB=10Hz)

-11.8 dBm/MHz Peak Limit (RB=VB=1MHz)

802.11n Antenna gain used is the effective gain calculated in the power section of this data sheet. The plots were obtained for each chain individually and the limit was adjusted to account for all chains transmitting simultaneously (solid red line on plot)

Number of transmit chains: 2

Maximum Antenna Gain: 4.8 dBi

Spurious Limit: -27.0 dBm/MHz eirp

Adjustment for 2 chains: -3.0 dB adjustment for multiple chains.

Limit Used On Plots Note 1: -34.8 dBm/MHz Average Limit (RB=1MHz, VB=10Hz)

-14.8 dBm/MHz Peak Limit (RB=VB=1MHz)

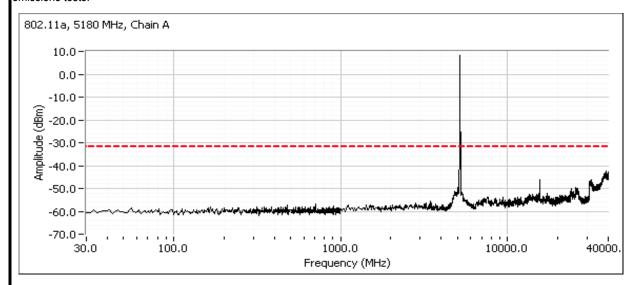
Note 1:	The -27dBm/MHz limit is an eirp limit. The limit for antenna port conducted measurements is adjusted to take into consideration the maximum antenna gain (limit = -27dBm - antenna gain). Radiated field strength measurements for signals more than 50MHz from the bands and that are close to the limit are made to determine compliance as the antenna gain is not known at these frequencies.
Note 2:	All spurious signals below 1GHz are measured during digital device radiated emissions test.
Note 3:	Signals within 10MHz of the 5.725 or 5.825 Band edge are subject to a limit of -17dBm EIRP
Note 4:	If the device is for outdoor use then the -27dBm eirp limit also applies in the 5150 - 5250 MHz band.
Note 5:	Signals that fall in the restricted bands of 15.205 are subject to the limit of 15.209.

All 2/22 Company			
Client:	Intel Corporation	Job Number:	J80050
Madal	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model.	02203ANTIMIV (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

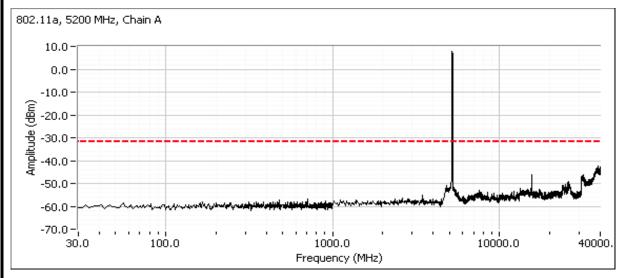
Plots Showing Out-Of-Band Emissions (RBW=VBW=1MHz)

Low channel, 5150 - 5250 MHz Band 802.11a

Compliance with the radiated limits for the restricted Band 802.11a immediately below 5150MHz is demonstrated through the radiated emissions tests.



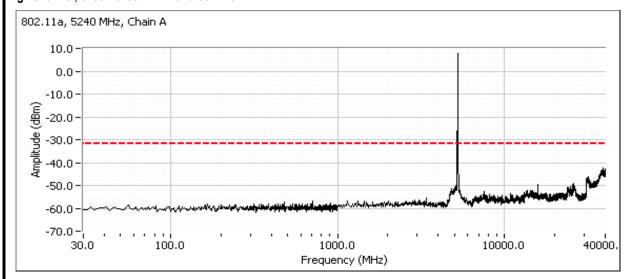
Center channel, 5150 - 5250 MHz Band 802.11a



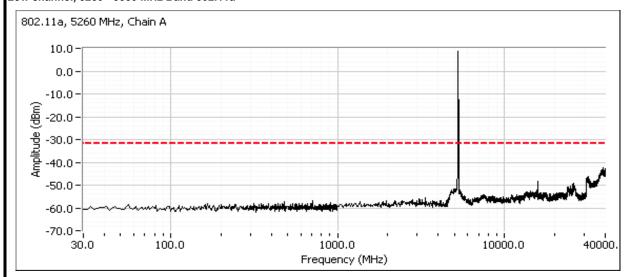


All Dates Company			
Client:	Intel Corporation	Job Number:	J80050
Madal	COORD ANILIMAN (Intel® Contring® Advanced N COOF)	T-Log Number:	T80214
Model.	62205ANHMW (Intel® Centrino® Advanced-N 6205)	Job Number: J80050 T-Log Number: T80214 Account Manager: Christine Krebil Class: N/A	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

High channel, 5150 - 5250 MHz Band 802.11a



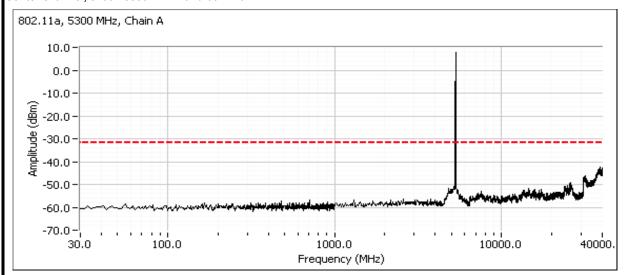
Low channel, 5250 - 5350 MHz Band 802.11a





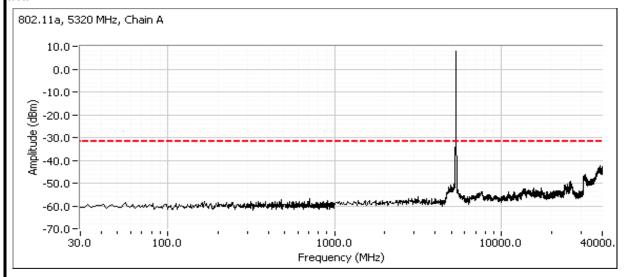
	All 2022 Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Center channel, 5250 - 5350 MHz Band 802.11a



High channel, 5250 - 5350 MHz Band 802.11a

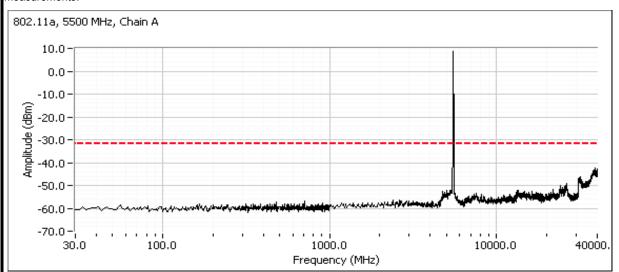
Compliance with the radiated limits for the restricted Band immediately above 5350MHz is demonstrated through the radiated emissions tests.



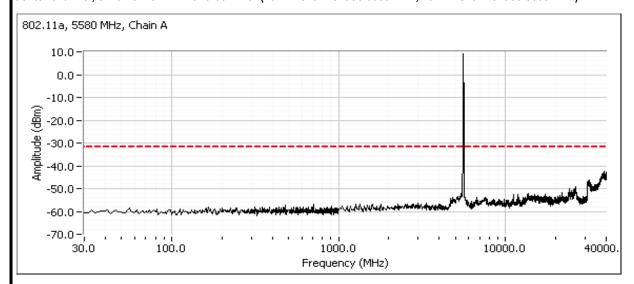
	An ACCES company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Low channel, 5470 - 5725 MHz Band 802.11a

Compliance with the -27dBm/MHz eirp limit immediately above the allocated Band at 5725 MHz is demonstrated through radiated measurements.



Center channel, 5470 - 5725 MHz Band 802.11a (20Mhz channel use 5580 MHz, 40MHz channel use 5550 MHz)

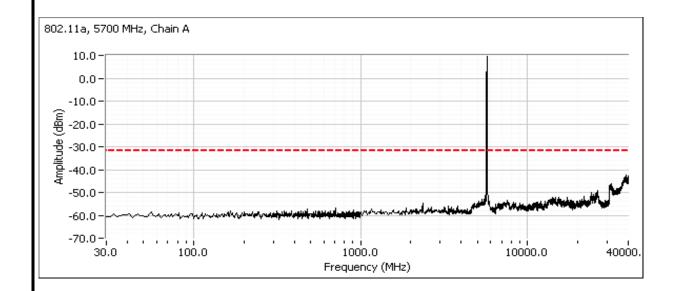




	An ZZZE company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

High channel, 5470 - 5725 MHz Band 802.11a

Compliance with the -27dBm/MHz eirp limit immediately above the allocated Band at 5725 MHz is demonstrated through radiated measurements.

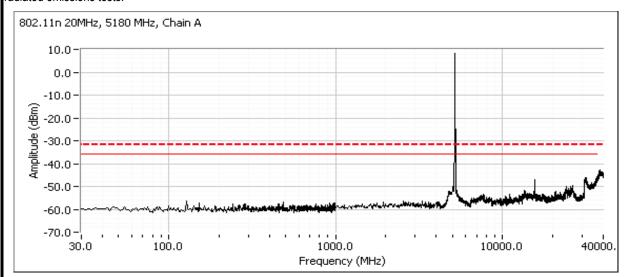




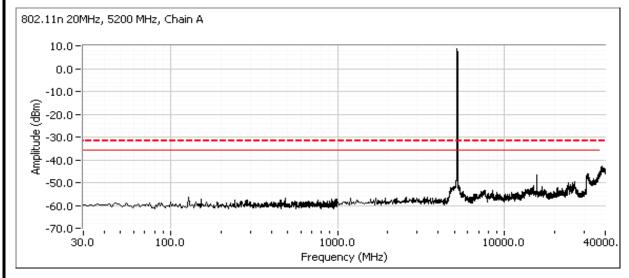
	An DOZED company			
Client:	Intel Corporation	Job Number:	J80050	
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214	
		Account Manager:	Christine Krebil	
Contact:	Steven Hackett			
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A	

Low channel, 5150 - 5250 MHz Band 802.11n 20MHz

Compliance with the radiated limits for the restricted Band 802.11n 20MHz immediately below 5150MHz is demonstrated through the radiated emissions tests.



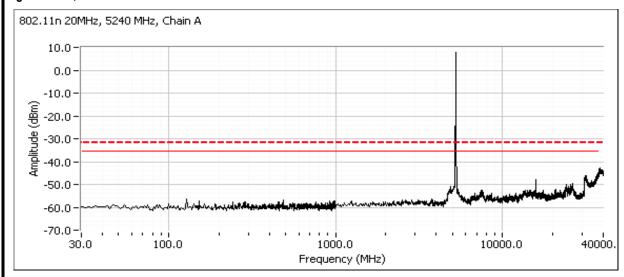
Center channel, 5150 - 5250 MHz Band 802.11n 20MHz



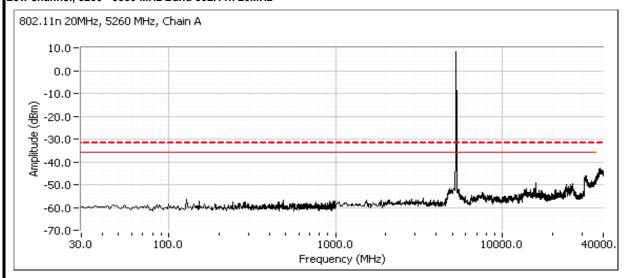


	An DOZED company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

High channel, 5150 - 5250 MHz Band 802.11n 20MHz



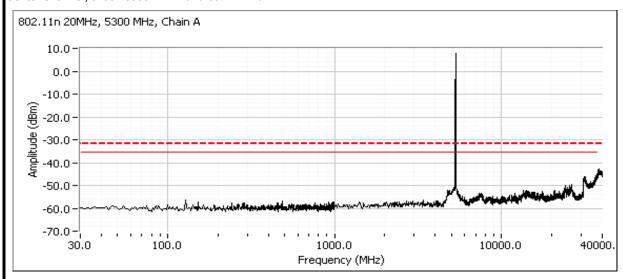
Low channel, 5250 - 5350 MHz Band 802.11n 20MHz





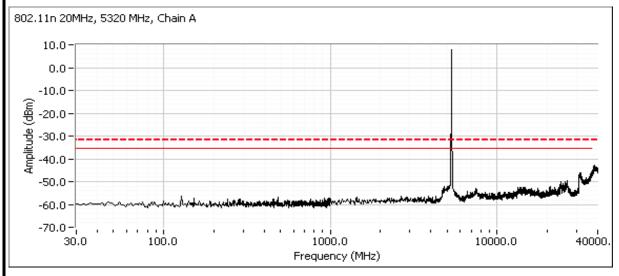
	An ACCES company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Center channel, 5250 - 5350 MHz Band 802.11n 20MHz



High channel, 5250 - 5350 MHz Band 802.11n 20MHz

Compliance with the radiated limits for the restricted Band immediately above 5350MHz is demonstrated through the radiated emissions tests.

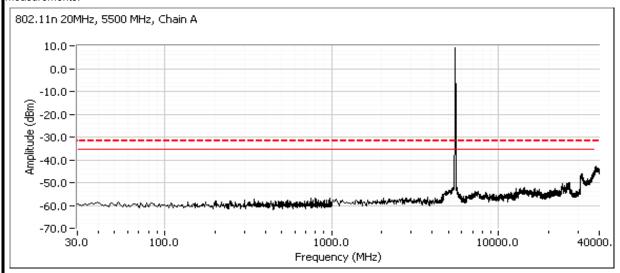




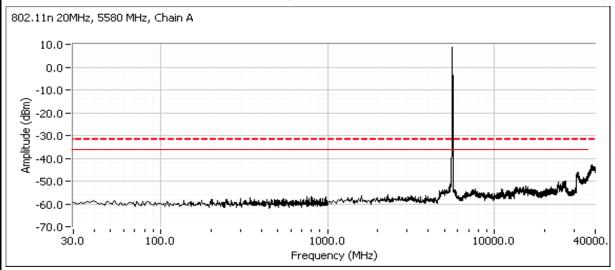
An 2/22 company			
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Low channel, 5470 - 5725 MHz Band 802.11n 20MHz

Compliance with the -27dBm/MHz eirp limit immediately above the allocated Band at 5725 MHz is demonstrated through radiated measurements.



Center channel, 5470 - 5725 MHz Band 802.11n 20MHz (20Mhz channel use 5580 MHz, 40MHz channel use 5550 MHz)

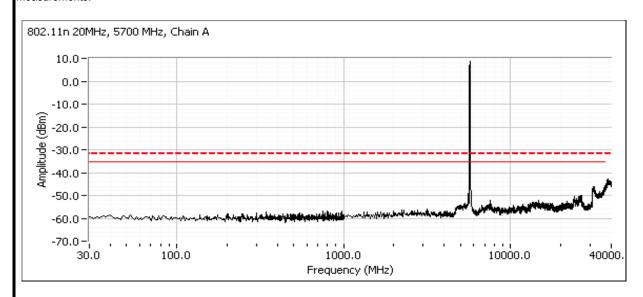




An 2/22 company			
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

High channel, 5470 - 5725 MHz Band 802.11n 20MHz

Compliance with the -27dBm/MHz eirp limit immediately above the allocated Band at 5725 MHz is demonstrated through radiated measurements.

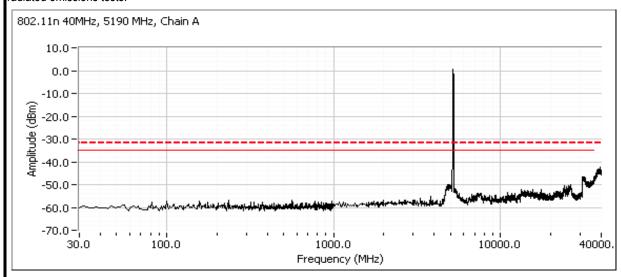




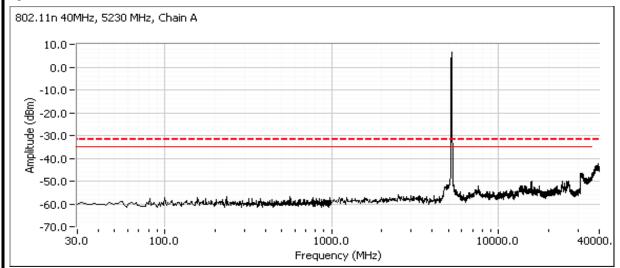
	An ZZZE company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Low channel, 5150 - 5250 MHz Band 802.11n 40MHz

Compliance with the radiated limits for the restricted Band 802.11n 40MHz immediately below 5150MHz is demonstrated through the radiated emissions tests.



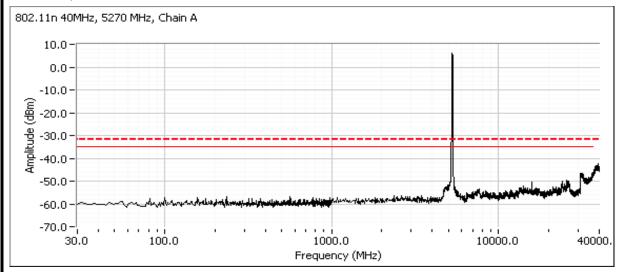
High channel, 5150 - 5250 MHz Band 802.11n 40MHz





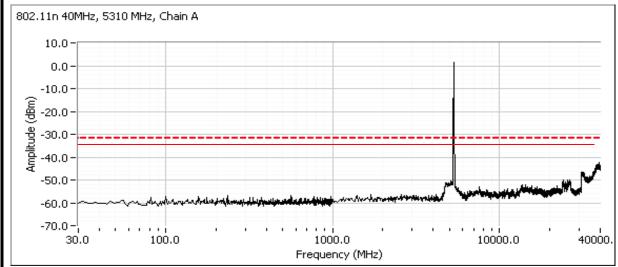
	All 2022 Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Low channel, 5250 - 5350 MHz Band 802.11n 40MHz



High channel, 5250 - 5350 MHz Band 802.11n 40MHz

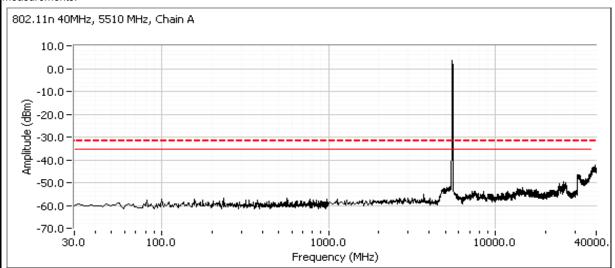
Compliance with the radiated limits for the restricted Band immediately above 5350MHz is demonstrated through the radiated emissions tests.



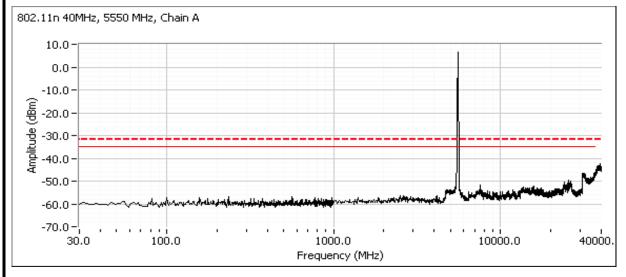
	All 2022 Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Low channel, 5470 - 5725 MHz Band 802.11n 40MHz

Compliance with the -27dBm/MHz eirp limit immediately above the allocated Band at 5725 MHz is demonstrated through radiated measurements.



Center channel, 5470 - 5725 MHz Band 802.11n 40MHz

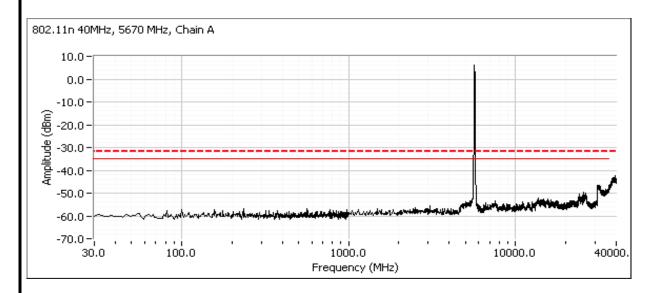




	An 2022 company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

High channel, 5470 - 5725 MHz Band 802.11n 40MHz

Compliance with the -27dBm/MHz eirp limit immediately above the allocated Band at 5725 MHz is demonstrated through radiated measurements.



El	lio an AZAS	tt

	All 2023 Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

RSS-210 (LELAN) and FCC 15.407(UNII) Antenna Port Measurements, SISO Mode Chain B Power, PSD, Peak Excursion, Bandwidth and 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.

Date of Test: 8/18/2010 Config. Used: 1 Config Change: None Test Engineer: Rafael Varelas Test Location: FT Lab #3 Host Unit Voltage 120V/60Hz

Summary of Results

Run #	Test Performed	Limit	Pass / Fail	Result / Margin
1	Power, 5150 - 5250MHz	15.407(a) (1), (2)	Pass	802.11a: 32.4 mW 802.11n 20MHz: 25.7 mW 802.11n n40MHz: 26.9 mW
1	PSD, 5150 - 5250MHz	15.407(a) (1), (2)	Pass	802.11a: 2.3 dBm/MHz 802.11n 20MHz: 1.3 dBm/MHz 802.11n n40MHz: -1.1 dBm/MHz
1	Power, 5250 - 5350MHz	15.407(a) (1), (2)	Pass	802.11a: 26.9 mW 802.11n 20MHz: 25.1 mW 802.11n n40MHz: 28.2 mW
1	PSD, 5250 - 5350MHz	15.407(a) (1), (2)	Pass	802.11a: 1.8 dBm/MHz 802.11n 20MHz: 1.2 dBm/MHz 802.11n n40MHz: -0.8 dBm/MHz
1	Power, 5470 - 5725MHz	15.407(a) (1), (2)	Pass	802.11a: 32.4 mW 802.11n 20MHz: 32.4 mW 802.11n n40MHz: 33.9 mW
1	PSD, 5470 - 5725MHz	15.407(a) (1), (2)	Pass	802.11a: 2.4 dBm/MHz 802.11n 20MHz: 2.4 dBm/MHz 802.11n n40MHz: -0.1 dBm/MHz
1	26dB Bandwidth	15.407 (Information only)	-	> 20MHz for all modes
1	99% Bandwidth	RSS 210 (Information only)	N/A	802.11a: 17.1 MHz 802.11n 20MHz: 18.3 MHz 802.11n n40MHz: 36.6 MHz
2	Peak Excursion Envelope	15.407(a) (6) 13dB	Pass	12.1 dB
3	Antenna Conducted - Out of Band Spurious	15.407(b) -27dBm/MHz	Pass	All emissions below the -27dBm/MHz limit

	An ZAZES company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIMIV (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

General Test Configuration

When measuring the conducted emissions from the EUT's antenna port, the antenna port of the EUT was connected to the spectrum analyzer or power meter via a suitable attenuator to prevent overloading the measurement system. All measurements are corrected to allow for the external attenuators and cables used.

Ambient Conditions:

Temperature: 22.1 °C Rel. Humidity: 44 %

Modifications Made During Testing

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.

Run #1: Bandwidth	, Output Power and Power S	pectral Densit	y - Single Chain Systems
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	Output power measured using a spectrum analyzer (see plots below). RBW=1MHz, VB=3 MHz, sample detector, power
Note 1:	averaging on (transmitted signal was continuous) and power integration over 40MHz (n20) or 80 MHz (n40) - method 1 of DA
	02-2138A1.

Note 2: Measured using the same analyzer settings used for output power.

For RSS-210 the limit for the 5150 - 5250 MHz band accounts for the antenna gain as the maximum eirp allowed is 10dBm/MHz. The limits are also corrected for instances where the highest measured value of the PSD exceeds the average PSD (calculated from the measured power divided by the measured 99% bandwidth) by more than 3dB by the amount that the measured value exceeds the average by more than 3dB.

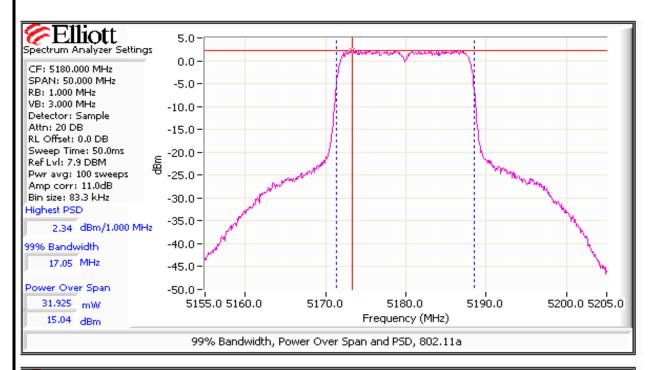
Note 4: 99% Bandwidth measured in accordance with RSS GEN - RB > 1% of span and VB >=3xRB

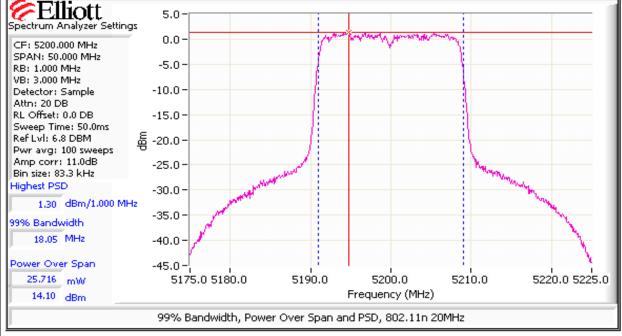
Single Chain Operation, 5150-5250MHz Band - Chain B

	Antenna	a Gain (dBi):	3.7		EIRP:	75.9	mW	18.8	dBm	
Frequency	Software	Band	lwidth	Output Po	ower ¹ dBm	Power	Р	SD ² dBm/Ml	Ηz	Result
(MHz)	Setting	26dB	99% ⁴	Measured	Limit	(Watts)	Measured	FCC Limit	RSS Limit ³	Nesuit
802.11a										
5180	20.5 / 16.2	33.9	17.1	15.1	17.0	0.032	2.3	4.0	6.3	Pass
5200	20.5 / 16.1	34.6	17.0	14.2	17.0	0.026	1.6	4.0	6.3	Pass
5240	21 / 16.1	34.1	17.0	14.3	17.0	0.027	1.5	4.0	6.3	Pass
802.11n 20l	MHz									
5180	19.5 / 15.6	39.6	18.1	13.3	17.0	0.021	0.5	4.0	6.3	Pass
5200	20.5 / 16.1	40.4	18.1	14.1	17.0	0.026	1.3	4.0	6.3	Pass
5240	21 / 16	39.2	18.1	14.0	17.0	0.025	1.1	4.0	6.3	Pass
802.11n 40l	802.11n 40MHz									
5190	15.5 / 11.1	40.2	36.1	9.7	17.0	0.009	-5.8	4.0	6.3	Pass
5230	22 / 16	60.7	36.3	14.3	17.0	0.027	-1.1	4.0	6.3	Pass
<u> </u>	•				•	<u> </u>				



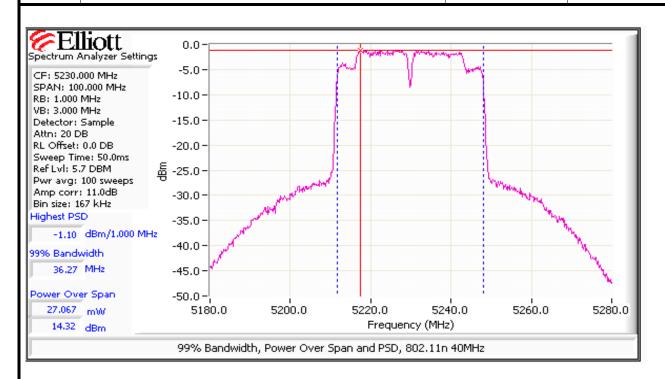
An ZAZES company						
Client:	Intel Corporation	Job Number:	J80050			
Model:	62205 ANHMIN (Intol® Contring® Advanced N 6205)	T-Log Number:	T80214			
	62205ANHMW (Intel® Centrino® Advanced-N 6205)	Account Manager:	Christine Krebil			
Contact:	Steven Hackett					
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A			







Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIWW (IIILel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A



Single Chain Operation, 5250-5350 MHz Band - Chain B

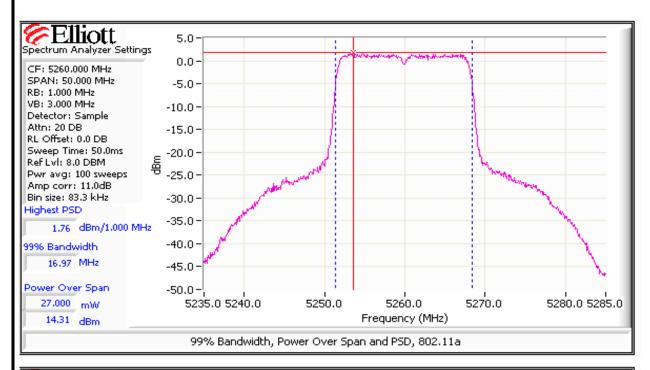
	Antenna	Gain (dBi):	3.7		EIRP:	63.1	mW	18.0	dBm	
Frequency	Software	Band	width	Output Po	wer ¹ dBm	Power	Р	SD ² dBm/Ml	Ηz	Result
(MHz)	Setting	26dB	99% ⁴	Measured	Limit	(Watts)	Measured	FCC Limit	RSS Limit ³	Result
802.11a										
5260	21.5 / 16.2	36.6	17.0	14.3	24.0	0.027	1.8	11.0	11.0	Pass
5300	22 / 16.2	36.3	17.1	14.0	24.0	0.025	1.3	11.0	11.0	Pass
5320	22.5 / 16.2	36.8	17.1	14.1	24.0	0.026	1.4	11.0	11.0	Pass
802.11n 201	ЛHz									
5260	21.5 / 16.2	42.6	18.1	14.0	24.0	0.025	1.2	11.0	11.0	Pass
5300	22 / 16.1	42.6	18.2	13.7	24.0	0.023	0.9	11.0	11.0	Pass
5320	22.5 / 16.2	43.1	18.1	13.8	24.0	0.024	1.0	11.0	11.0	Pass
802.11n 40MHz										
5270	23.5 / 16.6	68.8	36.3	14.5	24.0	0.028	-0.8	11.0	11.0	Pass
5310	17 / 11.1	40.2	36.3	8.7	24.0	0.007	-6.5	11.0	11.0	Pass

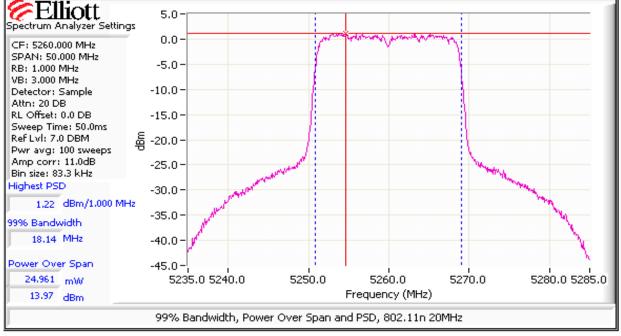
Output Power at Low Power Setting - 5250-5350 MHz Band

EIRP does not exceed 500mW, therefore TPC is not required and measurements at a low power setting are not required.



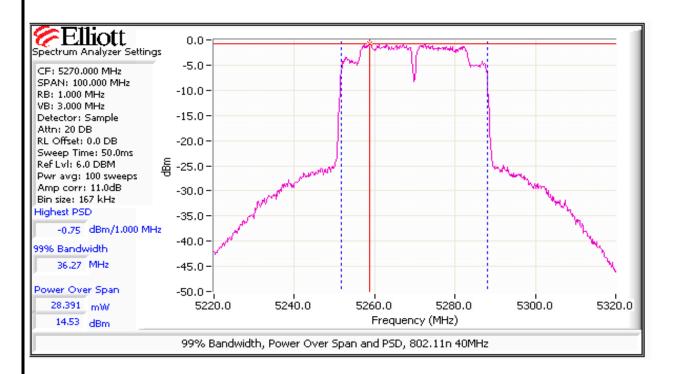
An ZAZES company						
Client:	Intel Corporation	Job Number:	J80050			
Model:	62205 ANHMIN (Intol® Contring® Advanced N 6205)	T-Log Number:	T80214			
	62205ANHMW (Intel® Centrino® Advanced-N 6205)	Account Manager:	Christine Krebil			
Contact:	Steven Hackett					
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A			







	An A/A company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANHIVIV (III.lei® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A



Single Chain Operation, 5470- 5725 MHz Band, Chain B

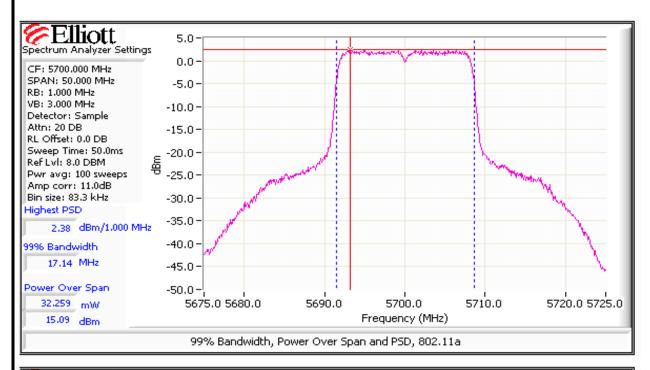
	Antenna	Gain (dBi):	4.8		EIRP:	97.7	mW	19.9	dBm	
Frequency	Software	Band	lwidth	Output Po	wer ¹ dBm	Power	Р	SD ² dBm/Ml	Ηz	Result
(MHz)	Setting	26dB	99% ⁴	Measured	Limit	(Watts)	Measured	FCC Limit	RSS Limit ³	Nesuit
802.11a										
5500	25 / 16.6	37.7	17.1	14.6	24.0	0.029	1.8	11.0	11.0	Pass
5580	26 / 16.7	38.0	17.1	14.9	24.0	0.031	2.4	11.0	11.0	Pass
5700	26.5 / 16.5	37.1	17.1	15.1	24.0	0.032	2.4	11.0	11.0	Pass
802.11n 20l	MHz									
5500	25 / 16.6	42.8	18.2	14.3	24.0	0.027	1.7	11.0	11.0	Pass
5580	26 / 16.6	43.4	18.2	14.5	24.0	0.028	1.9	11.0	11.0	Pass
5700	27 / 16.7	43.3	18.3	15.1	24.0	0.032	2.4	11.0	11.0	Pass
802.11n 40l	802.11n 40MHz									
5510	22 / 13.6	46.3	36.3	11.2	24.0	0.013	-4.0	11.0	11.0	Pass
5550	27 / 16.7	69.2	36.4	14.8	24.0	0.030	-0.7	11.0	11.0	Pass
5670	28 / 16.7	69.8	36.6	15.3	24.0	0.034	-0.1	11.0	11.0	Pass

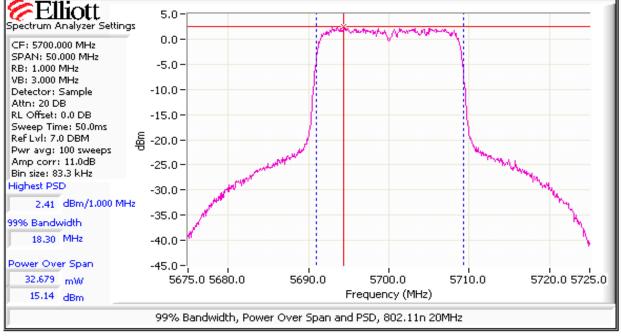
Output Power at Low Power Setting - 5470-5725 MHz Band

EIRP does not exceed 500mW, therefore TPC is not required and measurements at a low power setting are not required.



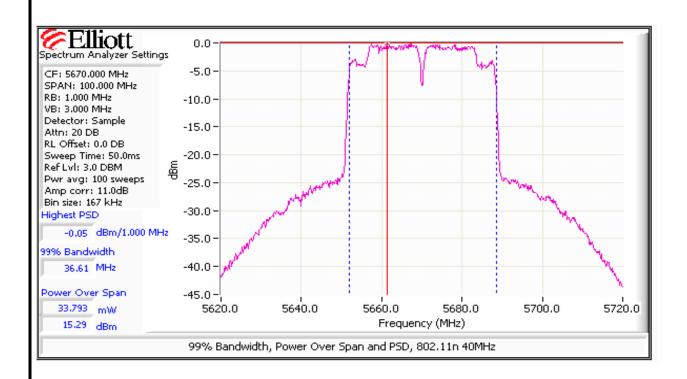
	An 2/223 company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205 ANUMW (Intol® Contring® Advanced N 6205)	T-Log Number:	T80214
	62205ANHMW (Intel® Centrino® Advanced-N 6205)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A







	An ZAZZES company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205 ANUMAN (Intel® Contring® Advanced N 6205)	T-Log Number:	T80214
	62205ANHMW (Intel® Centrino® Advanced-N 6205)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A





	An DOZES Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANT INVV (ITIENO CETITITO AGVANCEU-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run #2: Peak Excursion Measurement

802.11a: Device meets the requirement for the peak excursion

Freq	Peak Exc	ursion(dB)	Freq	req Peak Excursion(dB)		Freq	Peak Excursion(dB)	
(MHz)	Value	Limit	(MHz)	Value	Limit	(MHz)	Value	Limit
5180	9.4	13.0	5260	9.8	13.0	5500	9.8	13.0
5200	9.6	13.0	5300	9.6	13.0	5580	9.9	13.0
5240	9.7	13.0	5320	9.8	13.0	5700	10.1	13.0

n20MHz: Device meets the requirement for the peak excursion

	Freq	Peak Exc	ursion(dB)	Freq	Freq Peak Excursion(dB)		Freq	Peak Excursion(dB	
I	(MHz)	Value	Limit	(MHz)	Value	Limit	(MHz)	Value	Limit
	5180	10.6	13.0	5260	10.7	13.0	5500	10.2	13.0
ſ	5200	11.1	13.0	5300	10.8	13.0	5580	10.5	13.0
ſ	5240	10.9	13.0	5320	10.1	13.0	5700	10.4	13.0

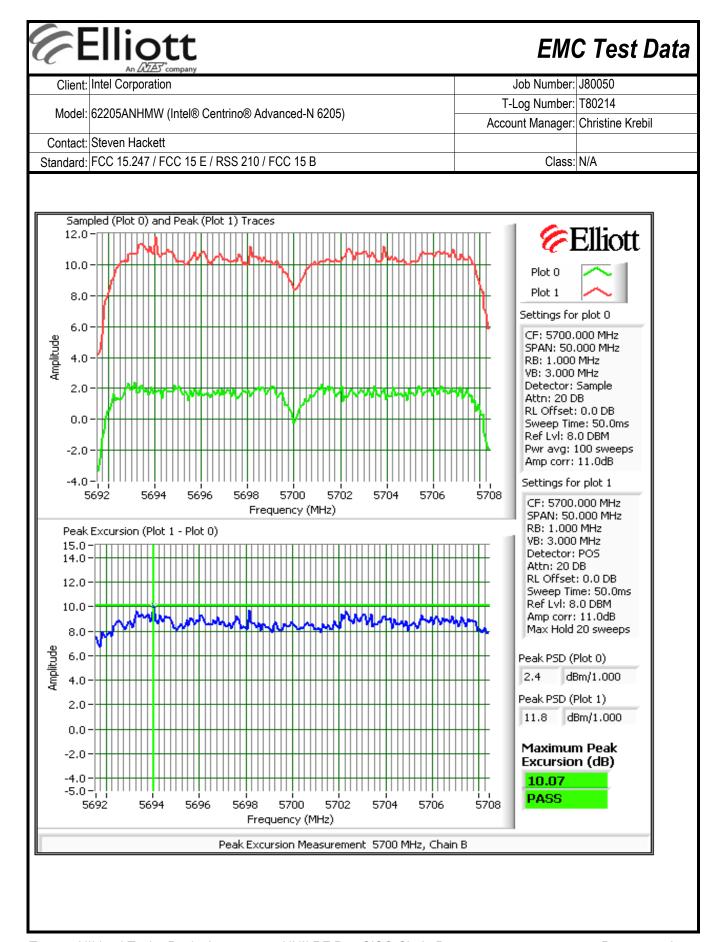
n40MHz: Device meets the requirement for the peak excursion

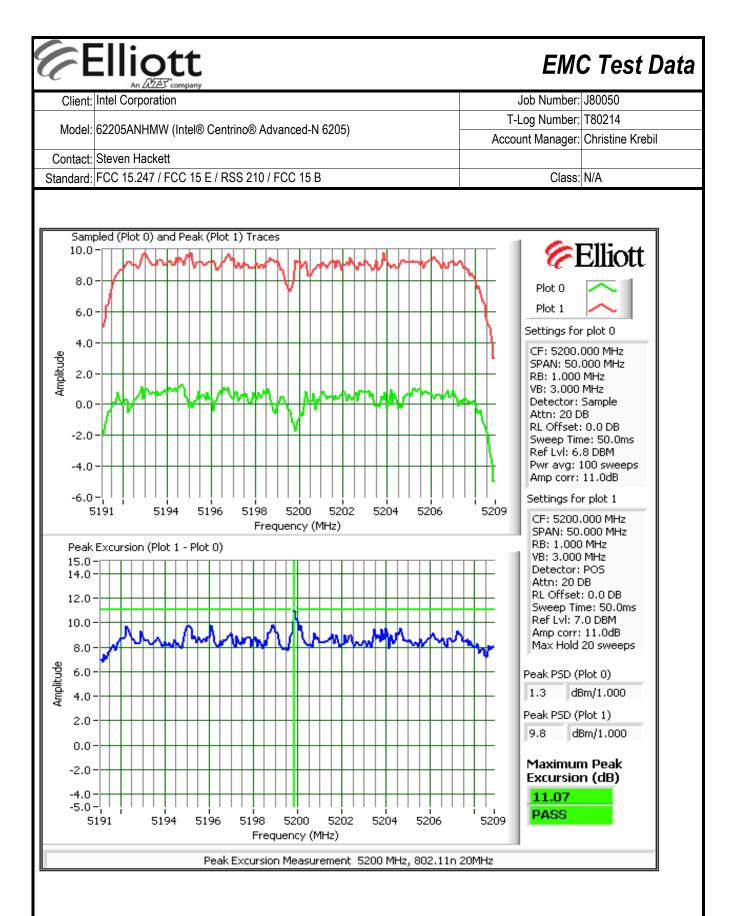
Freq	Peak Excursion(dB)		Freq	Peak Excursion(dB)		Freq	Peak Exc	ursion(dB)
(MHz)	Value	Limit	(MHz)	Value	Limit	(MHz)	Value	Limit
5190	11.4	13.0	5270	12.1	13.0	5510	12.0	13.0
5230	11.0	13.0	5310	11.6	13.0	5550	11.3	13.0
						5670	11.6	13.0

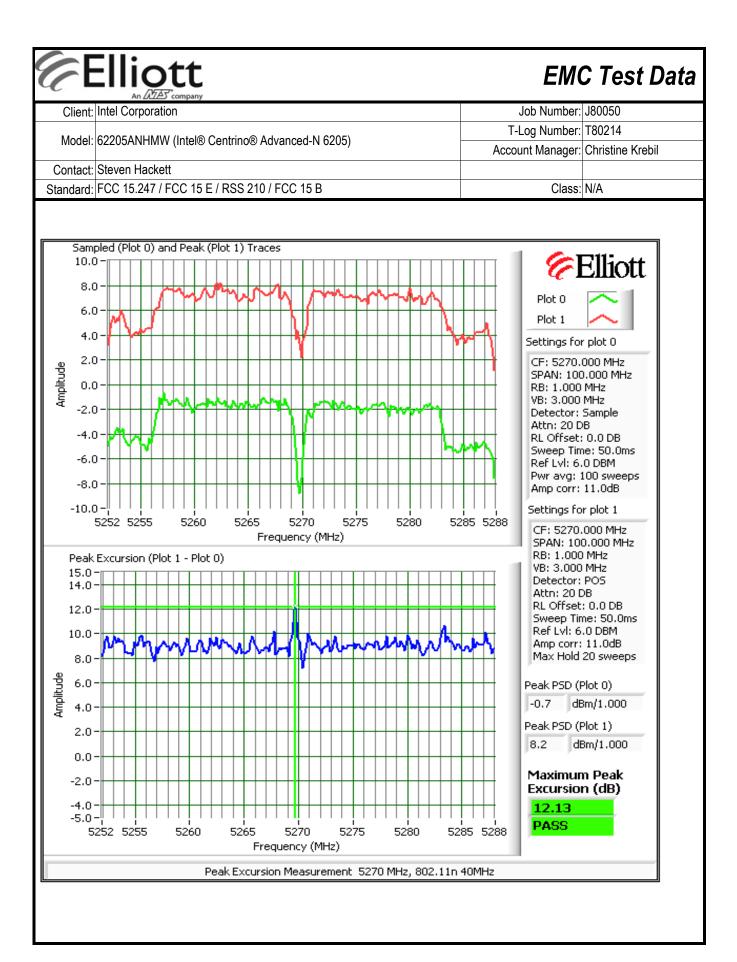
Plots Showing Peak Excursion

Trace A: RBW = 1MHz, VBW = 3MHz, Peak hold

Trace B: Same settings as used for power/PSD measurements (RBW = 1 MHz, VBW = 3MHz, Integrated average power)







EI!	iott An 还否 company
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	An ZCZES company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIWW (IIILEI® CEILLIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Run #3: Out Of Band Spurious Emissions - Antenna Conducted

802.11a Maximum Antenna Gain: 4.8 dBi

Spurious Limit: -27.0 dBm/MHz eirp

Limit Used On Plots Note 1: -31.8 dBm/MHz Average Limit (RB=1MHz, VB=10Hz)

-11.8 dBm/MHz Peak Limit (RB=VB=1MHz)

802.11n Antenna gain used is the effective gain calculated in the power section of this data sheet. The plots were obtained for each chain individually and the limit was adjusted to account for all chains transmitting simultaneously

Number of transmit chains: 2

Maximum Antenna Gain: 4.8 dBi

Spurious Limit: -27.0 dBm/MHz eirp

Adjustment for 2 chains: _______ dB adjustment for multiple chains.

Limit Used On Plots Note 1: -34.8 dBm/MHz Average Limit (RB=1MHz, VB=10Hz)

-14.8 dBm/MHz Peak Limit (RB=VB=1MHz)

The -27dBm/MHz limit is an eirp limit. The limit for antenna port conducted measurements is adjusted to take into consideration the maximum antenna gain (limit = -27dBm - antenna gain). Radiated field strength measurements for signals more than 50MHz from the bands and that are close to the limit are made to determine compliance as the antenna gain is not known at these frequencies.

Note 2: All spurious signals below 1GHz are measured during digital device radiated emissions test.

Note 3: Signals within 10MHz of the 5.725 or 5.825 Band edge are subject to a limit of -17dBm EIRP

Note 4: If the device is for outdoor use then the -27dBm eirp limit also applies in the 5150 - 5250 MHz band.

Note 5: Signals that fall in the restricted bands of 15.205 are subject to the limit of 15.209.

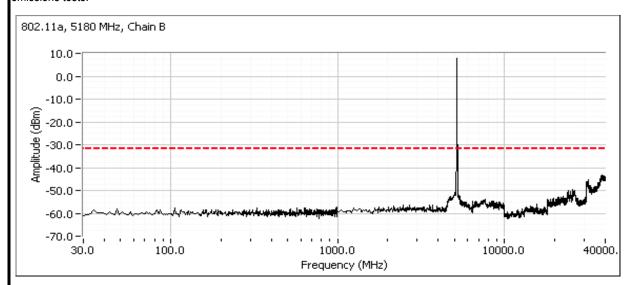
Plots Showing Out-Of-Band Emissions (RBW=VBW=1MHz)



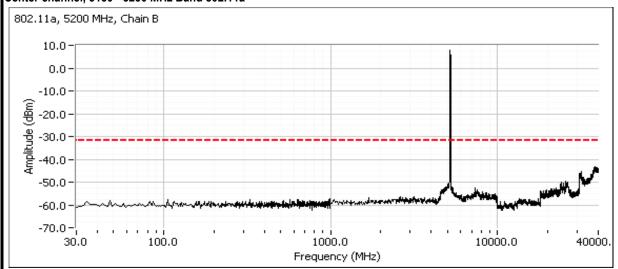
	An 2022 Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIMIV (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Low channel, 5150 - 5250 MHz Band 802.11a

Compliance with the radiated limits for the restricted Band 802.11a immediately below 5150MHz is demonstrated through the radiated emissions tests.



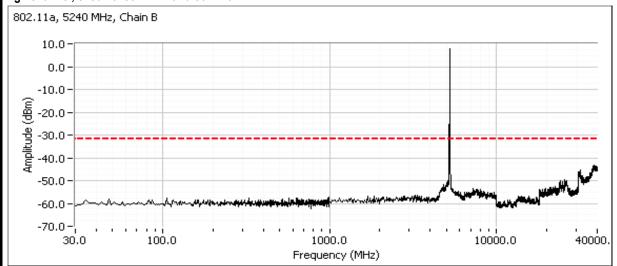
Center channel, 5150 - 5250 MHz Band 802.11a



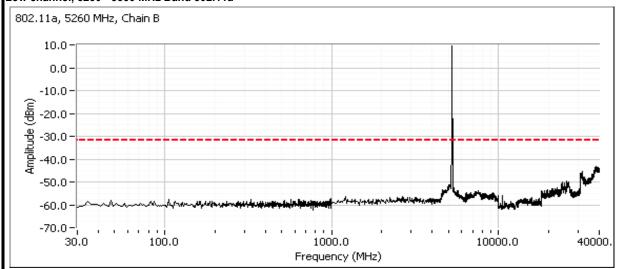


	All 2023 Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205 ANUMAN (Intel® Contring® Advanced N 6205)	T-Log Number:	T80214
	62205ANHMW (Intel® Centrino® Advanced-N 6205)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

High channel, 5150 - 5250 MHz Band 802.11a



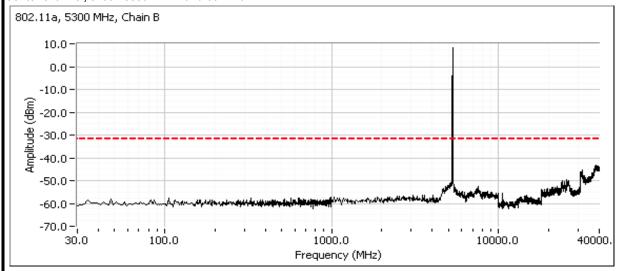
Low channel, 5250 - 5350 MHz Band 802.11a





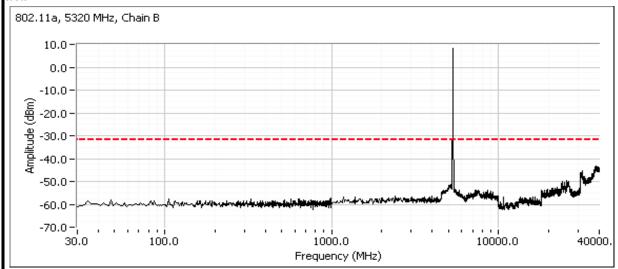
	An ZAZZES company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205 ANUMAN (Intel® Contring® Advanced N 6205)	T-Log Number:	T80214
	62205ANHMW (Intel® Centrino® Advanced-N 6205)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Center channel, 5250 - 5350 MHz Band 802.11a



High channel, 5250 - 5350 MHz Band 802.11a

Compliance with the radiated limits for the restricted Band immediately above 5350MHz is demonstrated through the radiated emissions tests.

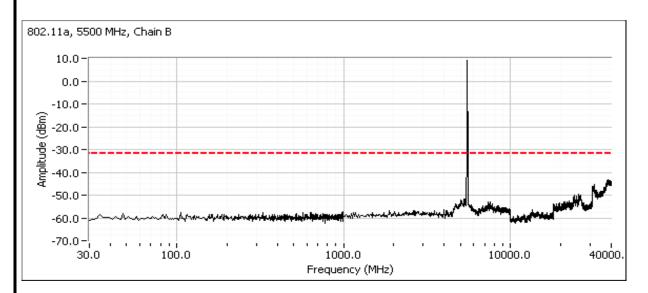




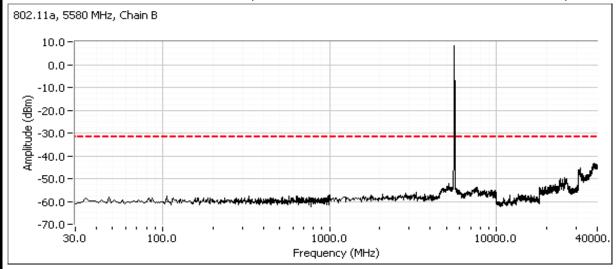
	All DLES company		
Client:	Intel Corporation	Job Number:	J80050
Model: 62205	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Low channel, 5470 - 5725 MHz Band 802.11a

Compliance with the radiated limits for the restricted Band 802.11n 40MHz below 5460 MHz is demonstrated through the radiated emissions tests, as is compliance with the -27dBm/Mhz limit in the band immediately below the allocated band (5460-5470MHz).



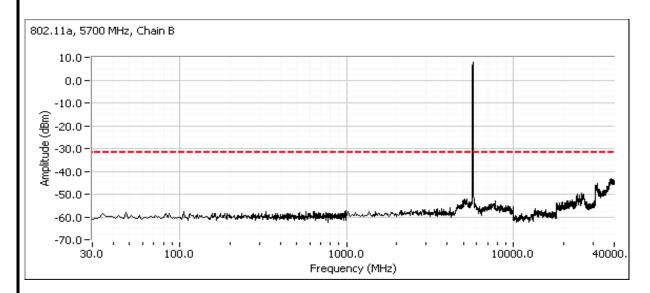
Center channel, 5470 - 5725 MHz Band 802.11a (20Mhz channel use 5580 MHz, 40MHz channel use 5550 MHz)



	An Zuzz company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

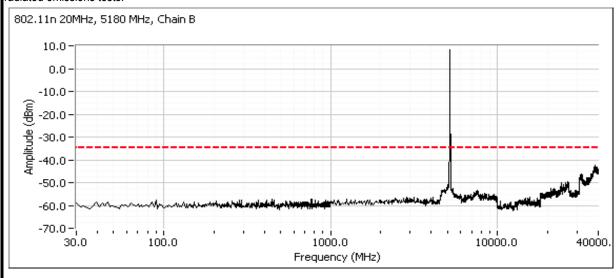
High channel, 5470 - 5725 MHz Band 802.11a

Compliance with the -27dBm/MHz eirp limit immediately above the allocated Band at 5725 MHz is demonstrated through radiated measurements.



Low channel, 5150 - 5250 MHz Band 802.11n 20MHz

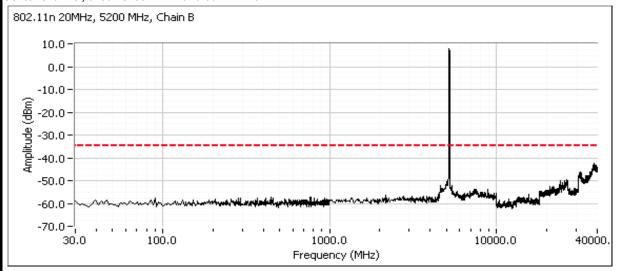
Compliance with the radiated limits for the restricted Band 802.11n 20MHz immediately below 5150MHz is demonstrated through the radiated emissions tests.



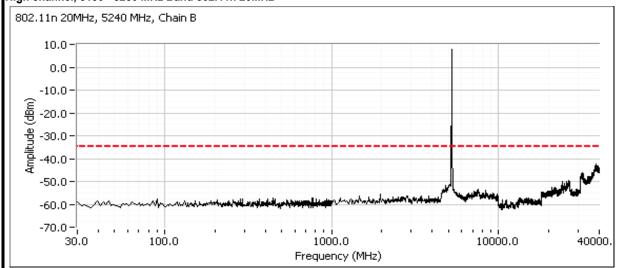


	All 2022 Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Center channel, 5150 - 5250 MHz Band 802.11n 20MHz



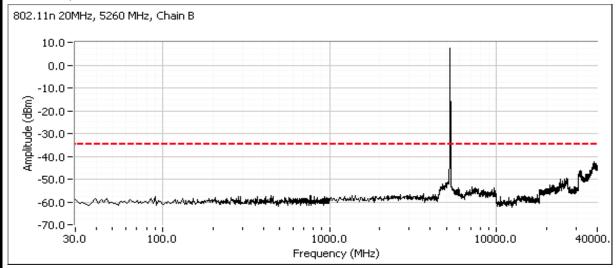
High channel, 5150 - 5250 MHz Band 802.11n 20MHz



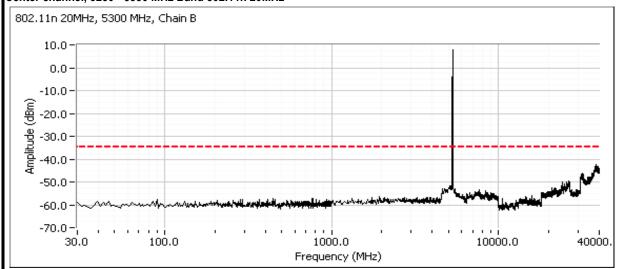


	All DLES company		
Client:	Intel Corporation	Job Number:	J80050
Model: 62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214	
	02203ANHIVIVV (III.el® Celitililo® Advanceu-iv 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Low channel, 5250 - 5350 MHz Band 802.11n 20MHz



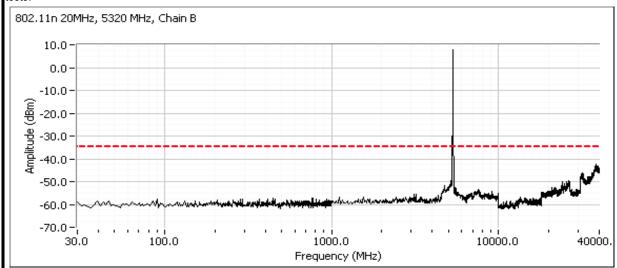
Center channel, 5250 - 5350 MHz Band 802.11n 20MHz



	All DLES company		
Client:	Intel Corporation	Job Number:	J80050
Model: 62205	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

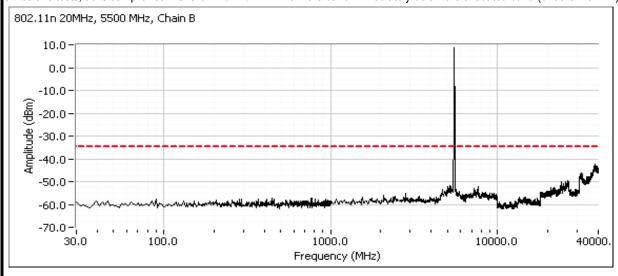
High channel, 5250 - 5350 MHz Band 802.11n 20MHz

Compliance with the radiated limits for the restricted Band immediately above 5350MHz is demonstrated through the radiated emissions tests.



Low channel, 5470 - 5725 MHz Band 802,11n 20MHz

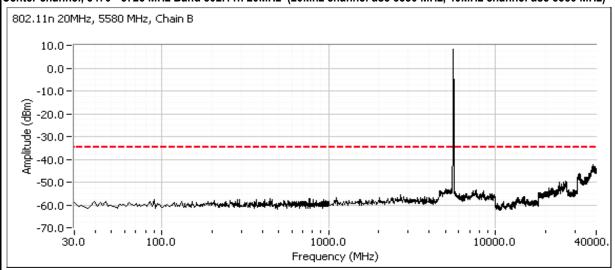
Compliance with the radiated limits for the restricted Band 802.11n 40MHz below 5460 MHz is demonstrated through the radiated emissions tests, as is compliance with the -27dBm/Mhz limit in the band immediately below the allocated band (5460-5470MHz).





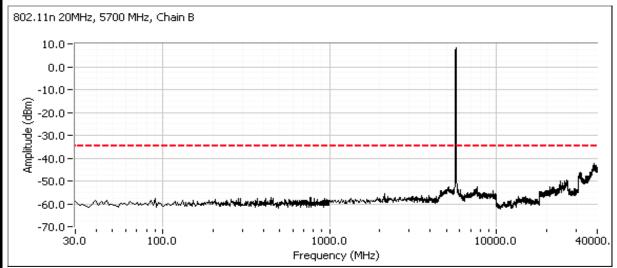
	An Zuzz company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Center channel, 5470 - 5725 MHz Band 802.11n 20MHz (20Mhz channel use 5580 MHz, 40MHz channel use 5550 MHz)



High channel, 5470 - 5725 MHz Band 802.11n 20MHz

Compliance with the -27dBm/MHz eirp limit immediately above the allocated Band at 5725 MHz is demonstrated through radiated measurements.

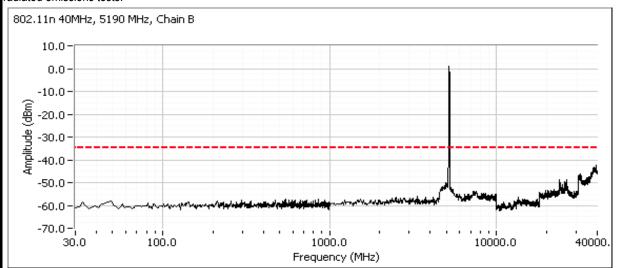




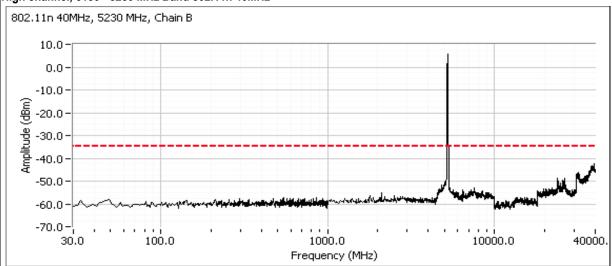
	An Zuzz company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Low channel, 5150 - 5250 MHz Band 802.11n 40MHz

Compliance with the radiated limits for the restricted Band 802.11n 40MHz immediately below 5150MHz is demonstrated through the radiated emissions tests.



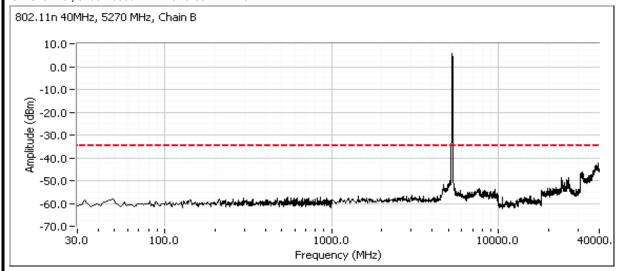
High channel, 5150 - 5250 MHz Band 802.11n 40MHz





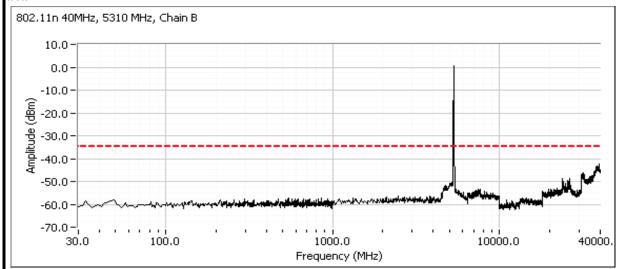
	All Dates Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
		Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Low channel, 5250 - 5350 MHz Band 802.11n 40MHz



High channel, 5250 - 5350 MHz Band 802.11n 40MHz

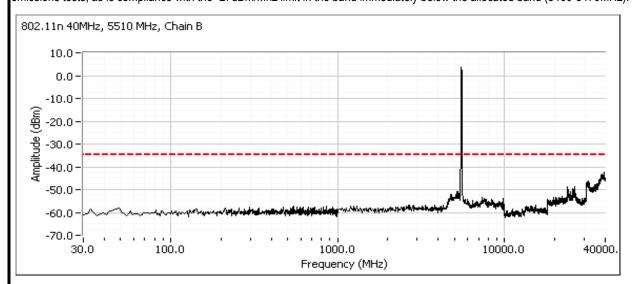
Compliance with the radiated limits for the restricted Band immediately above 5350MHz is demonstrated through the radiated emissions tests.



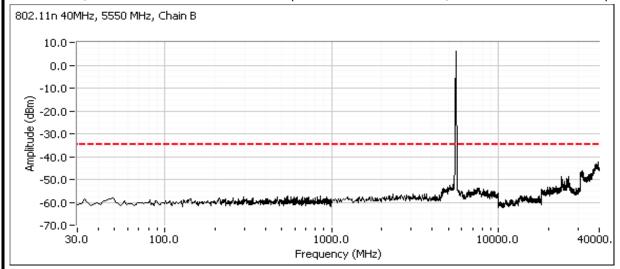
	An Z(ZE) company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIWW (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

Low channel, 5470 - 5725 MHz Band 802.11n 40MHz

Compliance with the radiated limits for the restricted Band 802.11n 40MHz below 5460 MHz is demonstrated through the radiated emissions tests, as is compliance with the -27dBm/Mhz limit in the band immediately below the allocated band (5460-5470MHz).



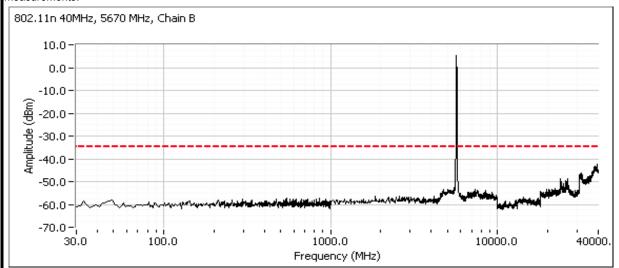
Center channel, 5470 - 5725 MHz Band 802.11n 40MHz (20Mhz channel use 5580 MHz, 40MHz channel use 5550 MHz)



	Elliott An ATAS company	EMO	EMC Test Data			
Client:	Intel Corporation	Job Number:	J80050			
Model	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214			
Model.		Account Manager:	Christine Krebil			
Contact:	Steven Hackett					
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A			

High channel, 5470 - 5725 MHz Band 802.11n 40MHz

Compliance with the -27dBm/MHz eirp limit immediately above the allocated Band at 5725 MHz is demonstrated through radiated measurements.





	An Z(ZE) company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIWW (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

RSS-210 (LELAN) and FCC 15.407(UNII) Antenna Port Measurements, MIMO Mode Chain A+B Power, PSD, Peak Excursion, Bandwidth and 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.

Config. Used: 1 Date of Test: 8/20/2010 Config Change: None Test Engineer: Rafael Varelas Host Unit Voltage 120V/60Hz Test Location: FT Lab #3

Summary of Results

Run #	Test Performed	Limit	Pass / Fail	Result / Margin
1	Power, 5150 - 5250MHz	15.407(a) (1), (2)	Pass	802.11n 20MHz: 25.5 mW 802.11n n40MHz: 26.3 mW
1	PSD, 5150 - 5250MHz	15.407(a) (1), (2)	Pass	802.11n 20MHz: 1.3 dBm/MHz 802.11n n40MHz: -1.0 dBm/MHz
1	Power, 5250 - 5350MHz	15.407(a) (1), (2)	Pass	802.11n 20MHz: 23.8 mW 802.11n n40MHz: 25.5 mW
1	PSD, 5250 - 5350MHz	15.407(a) (1), (2)	Pass	802.11n 20MHz: 1.0 dBm/MHz 802.11n n40MHz: -1.1 dBm/MHz
1	Power, 5470 - 5725MHz	15.407(a) (1), (2)	Pass	802.11n 20MHz: 30.6 mW 802.11n n40MHz: 28.9 mW
1	PSD, 5470 - 5725MHz	15.407(a) (1), (2)	Pass	802.11n 20MHz: 2.3 dBm/MHz 802.11n n40MHz: -0.6 dBm/MHz
1	99% Bandwidth	RSS 210 (Information only)	N/A	refer to SISO measurements
2	Peak Excursion Envelope	15.407(a) (6) 13dB	N/A	refer to SISO measurements
3	Antenna Conducted - Out of Band Spurious	15.407(b) -27dBm/MHz	N/A	refer to SISO measurements

General Test Configuration

When measuring the conducted emissions from the EUT's antenna port, the antenna port of the EUT was connected to the spectrum analyzer or power meter via a suitable attenuator to prevent overloading the measurement system. All measurements are corrected to allow for the external attenuators and cables used.

Ambient Conditions:

21.5 °C Temperature: Rel. Humidity: 42 %

	こ IIIO An 公子 Company	EMC Test Data			
Client:	Intel Corporation	Job Number:	J80050		
Madal	6220EANIUMW (Intel® Contring® Advanced N 620E)	T-Log Number:	T80214		
Model.	62205ANHMW (Intel® Centrino® Advanced-N 6205)	Account Manager:	Christine Krebil		
Contact:	Steven Hackett				
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A		

Modifications Made During Testing No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.

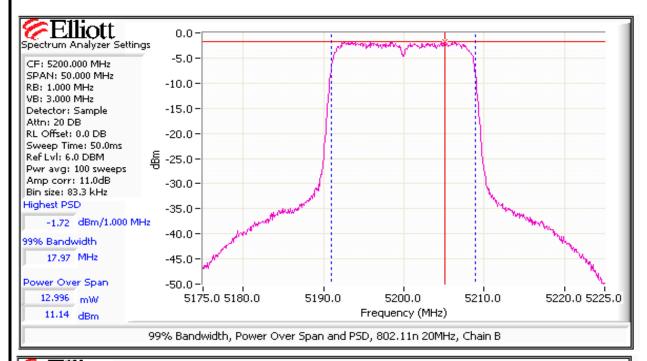
Run #1: Bandwidth	, Output Power and Power S	pectral Densit	y - MIMO Systems
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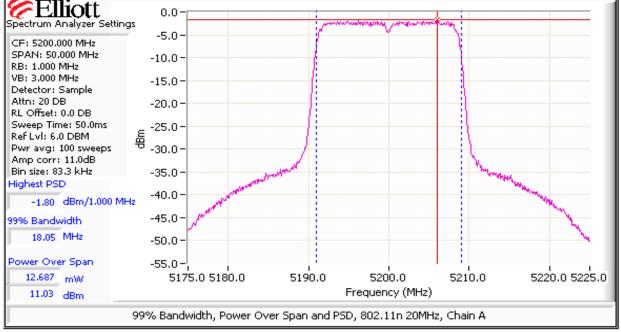
Note 1:	Output power measured using a peak power meter
	Output power measured using a spectrum analyzer (see plots below). RBW=1MHz, VB=3 MHz, sample detector, power
Note 1:	averaging on (transmitted signal was continuous) and power integration over 50MHz (n20) or 100 MHz (n40) - method 1 of
	DA-02-2138A1.
	Measured using the same analyzer settings used for output power.
	For RSS-210 the limit for the 5150 - 5250 MHz band accounts for the antenna gain as the maximum eirp allowed is
Note 3:	10dBm/MHz. The limits are also corrected for instances where the highest measured value of the PSD exceeds the average
Note 3.	PSD (calculated from the measured power divided by the measured 99% bandwidth) by more than 3dB by the amount that
	the measured value exceeds the average by more than 3dB.
	99% Bandwidth measured in accordance with RSS GEN - RB > 1% of span and VB >=3xRB
	For MIMO systems the total output power and total PSD are calculated form the sum of the powers of the individual chains (in
	linear terms). The antenna gain used to determine the EIRP and limits for PSD/Output power depends on the operating
Note 5:	mode of the MIMO device. If the signals on the non-coherent between the transmit chains then the gain used to determine
Note 5.	the limits is the highest gain of the individual chains and the EIRP is the sum of the products of gain and power on each
	chain. If the signals are coherent then the effective antenna gain is the sum (in linear terms) of the gains for each chain and
	the EIRP is the product of the effective gain and total power.

	Ellic	ott Ar company						EM	C Test	Data
Client:	Intel Corpora	ation						Job Number:	J80050	
			0.1.1	1.1.1.004		T-I	Log Number:	T80214		
Model:	62205ANHN	/IW (Intel® C	entrino® Adv	anced-N 620	05)		Accou	unt Manager:	Christine Kr	ebil
Contact:	Steven Hacl	kett								
Standard:	FCC 15.247	/ FCC 15 E	RSS 210 / F	FCC 15 B				Class:	N/A	
				-						
MIMO Devi	<u>ce - 5150-52</u>	50 MHz Band	t			_		_		-
			Chain 1	Chain 2	Chain 3	Coherent	Effective ⁵	EIRP (mW)	EIRP (dBm)	
İ	Antenna	a Gain (dBi):	3.7	3.7		Yes	6.7	123.2	20.9	
Power									-	
Frequency	Software	26dB BW	Measure	d Output Po	wer ¹ dBm	To	otal	Limit (dBm)	Max Power	Pass or Fai
(MHz)	Setting	(MHz)	Chain 1	Chain 2	Chain 3	mW	dBm	Lilliit (ubili)	(W)	rass of rai
20MHz Mod	le			•		•		•		
5180	19.5 / 20	21.9	10.5	10.5		22.4	13.5	16.3		PASS
5200	20.5 / 21	21.8	11.0	11.1		25.5	14.1	16.3	0.0255	PASS
5240	20.5 / 21	21.8	11.0	10.5		23.8	13.8	16.3		PASS
40MHz Mod						_		_		
5190	18.5 / 18.5	40.0	8.5	8.3		13.8	11.4	16.3	0.0263	PASS
5230	22 / 22	40.5	11.7	10.6		26.3	14.2	16.3	0.0200	PASS
PSD	Ι 4	T		2			D0D		.,	I
Frequency	99% ⁴	Total	ı	SD ² dBm/Ml	1		PSD		mit	Pass or Fai
(MHz)	BW	Power	Chain 1	Chain 2	Chain 3	mW/MHz	dBm/MHz	FCC	RSS 210 ³	1 400 01 1 411
20MHz Mod				T			T	•	T	1
5180	18.0	13.5	-2.3	-2.3		1.2	0.7	3.3	3.3	PASS
5200	18.0	14.1	-1.8	-1.7		1.3	1.3	3.3	3.3	PASS
5240	18.0	13.8	-1.6	-2.3		1.3	1.1	3.3	3.3	PASS
40MHz Mod		14.4	6.7	6.0		1 04	2.0	1 00	2.0	DA00
5190	36.1	11.4	-6.7	-6.9		0.4	-3.8	3.3	3.3	PASS
5230	36.3	14.2	-3.4	-4.7		0.8	-1.0	3.3	3.3	PASS



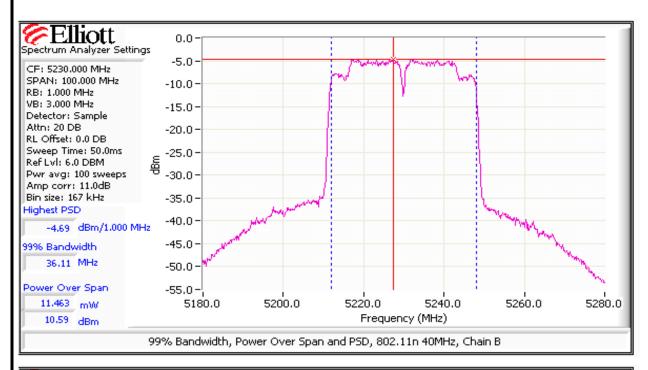
	An Z(ZE) company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANTIWW (IIItel® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

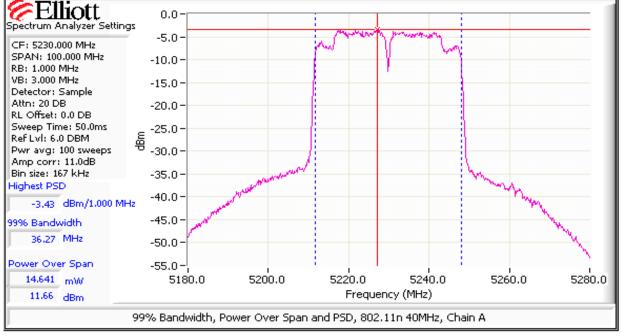






	An (A72) company		
Client:	Intel Corporation	Job Number:	J80050
Madal	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model	02203ANTIMIV (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A





	Ellic	ott As company						EM	C Test	Data
Client:	Intel Corpora						,	Job Number:	J80050	
								Log Number:		
Model:	62205ANHM	/IW (Intel® Co	entrino® Adv	anced-N 620	J5)			unt Manager:		 ehil
Contact:	Steven Hack	vott .					, 1000	Allit Ivianago	Omoune	GDII
	FCC 15.247		/ DSS 210 / F					Class:	NI/A	
Slänuaru.	FUU 10.271	/ FUU 13 L /	NOO 2 10 / 1	-00 13 13				Olass.	IV/A	
MINAO Dovi	5250 521	FA MUz Dane	_l							
MIIMO Devid	ce - 5250-535	OU WINZ Band	Chain 1	Chain 2	Chain 3	Coherent	True of the 5	TEIDD (m\\/)	EIRP (dBm)	1
	Antenna	a Gain (dBi):	3.7	3.7	Ullaili	Yes	Effective ⁵ 6.7	111.5	20.5	ł
Power	Antonia	1 Gairi (ubi).	J.1	J.1	<u> </u>	100	0.1	III.v	20.5]
Frequency	Software	26dB BW	Measure	ed Output Pov		T _C	otal		Max Power	1
(MHz)	Setting	(MHz)	Chain 1	Chain 2	Chain 3	mW	dBm	Limit (dBm)	(W)	Pass or Fail
20MHz Mod	J	(···· i=)	Chain i	Onain 2	Onamo	11177	UDIII	<u>l</u>	(**/	
5260	20.5 / 21.5	22.1	10.6	10.9		23.8	13.8	23.3	1	PASS
5300	21 / 21.5	22.0	11.0	10.3		23.1	13.6	23.3	0.0238	PASS
5320	21 / 22	22.2	10.5	10.3		21.9	13.4	23.3	1	PASS
40MHz Mod							1 - 1 - 1			
5270	22 / 23	39.8	10.8	11.3		25.5	14.1	23.3	0.0255	PASS
5310	18.5 / 19.5	39.7	7.9	7.5		11.8	10.7	23.3	0.0255	PASS
PSD										
Frequency	99% ⁴	Total	P	SD ² dBm/MF		Total	I PSD	Lir	mit	Pass or Fail
(MHz)	BW	Power	Chain 1	Chain 2	Chain 3	mW/MHz	dBm/MHz	FCC	RSS 210 ³	Pass of Fai
20MHz Mod	le									1
5260	18.0	13.8	-2.2	-1.9		1.2	1.0	10.3	11.0	PASS
5300	18.1	13.6	-2.0	-2.5		1.2	0.8	10.3	11.0	PASS
		10.1						400		

0.5

-1.1

-4.3

8.0

0.4

10.3

10.3

10.3

11.0

11.0

11.0

PASS

PASS

PASS

Output Power at Low Power Setting - 5250-5350 MHz Band

13.4

14.1

10.7

-2.5

-4.3

-7.3

18.1

36.1

36.3

5320

40MHz Mode 5270

5310

EIRP does not exceed 500mW, therefore TPC is not required and measurements at a low power setting are not required.

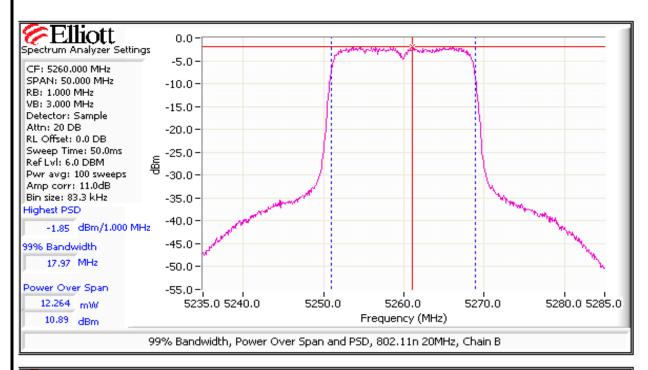
-2.6

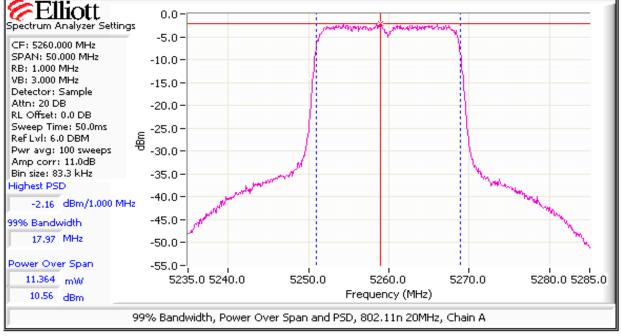
-4.0

-7.4



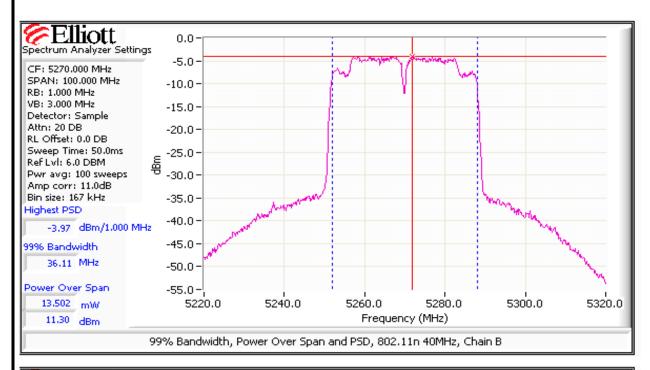
	An (A72) company		
Client:	Intel Corporation	Job Number:	J80050
Madal	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
Model	02203ANTIMIV (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A

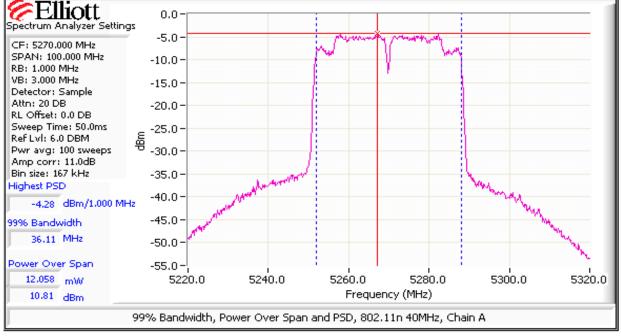






	An ATAS company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
wodei.	02203ANT INVIVY (ITILEI® CETITITIO® Advanced-IN 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A





E E	Ellic	ott						ЕМО	C Test	: Data
Client:	Intel Corpora							Job Number:	J80050	
Madal	COOOEANIIIN	1\1\	tuin	ranged NLCO)E\		T-	Log Number:	T80214	
Model:	62205ANHN	ivv (intel® C	entrino® Adv	/anced-in 620	J5)		Account Manager:		Christine Krebil	
Contact:	Steven Hack	cett								
Standard:	FCC 15.247	/ FCC 15 E	RSS 210 / I	-CC 15 B				Class:	N/A	
MIMO Devi	ce - 5470-572	25 MHz Band	Chain 1	Chain 2	Chain 3	Coherent	Effective ⁵	EIRP (mW)	EIRP (dBm)]
	Antenna	a Gain (dBi):	4.8	4.8		Yes	7.8	185.1	22.7	
Power	•								•	d
Frequency	Software	26dB BW	Measure	d Output Po	wer ¹ dBm	To	otal	al Limit (dBm)		Pass or Fa
(MHz)	Setting	(MHz)	Chain 1	Chain 2	Chain 3	mW	dBm	Lilliit (ubili)	(W)	F 455 UI F 4
20MHz Mod	le									
5500	23.5 / 24.5	22.3	11.3	10.9		25.8	14.1	22.2		PASS
5580	25 / 26	23.1	11.5	12.2		30.6	14.9	22.2	0.0306	PASS
5700	27 / 27	26.3	12.0	11.7		30.6	14.9	22.2		PASS

•	•	

40MHz Mode 5510

5550

24 / 25

25.5 / 26

5670	27 / 27	44.7	11.4	11.8		28.9	14.6	22.2		PASS
PSD										
Frequency	99% ⁴	Total	PSD ² dBm/MHz		Total PSD		Limit		Pass or Fail	
(MHz)	BW	Power	Chain 1	Chain 2	Chain 3	mW/MHz	dBm/MHz	FCC	RSS 210 ³	rass of rail
20MHz Mod	le					•				-
5500	18.1	14.1	-1.6	-1.6		1.4	1.4	9.2	11.0	PASS
5580	18.1	14.9	-1.2	-0.3		1.7	2.3	9.2	11.0	PASS
5700	18.1	14.9	-0.6	-1.3		1.6	2.1	9.2	11.0	PASS
40MHz Mod	le									
5510	36.1	13.5	-4.9	-4.5		0.7	-1.7	9.2	11.0	PASS
5550	36.3	14.2	-3.9	-4.1		0.8	-1.0	9.2	11.0	PASS
5670	36.4	14.6	-3.7	-3.5		0.9	-0.6	9.2	11.0	PASS

22.6

26.4

13.5

14.2

22.2

22.2

PASS

PASS

0.0289

42.3

41.8

10.3

11.2

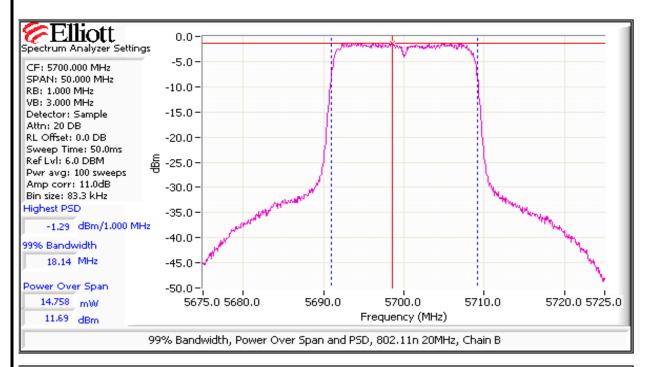
10.8

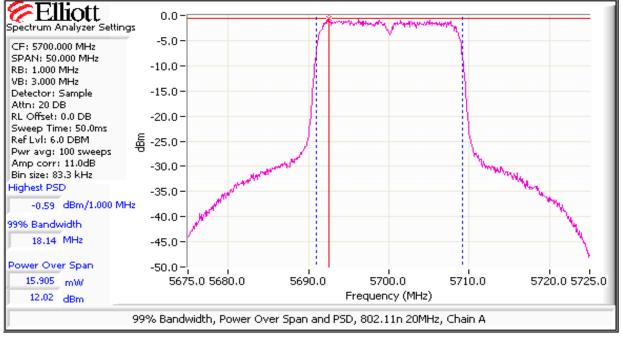
11.2

Output Power at Low Power Setting - 5470-5725 MHz Band
EIRP does not exceed 500mW, therefore TPC is not required and measurements at a low power setting are not required.



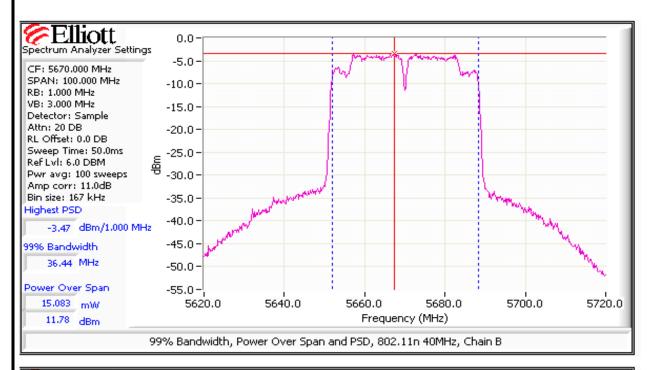
An ZCZEO company						
Client:	Intel Corporation	Job Number:	J80050			
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214			
	02203ANTIWW (IIILEI® CEITIIIIO® Advanced-N 0203)	Account Manager:	Christine Krebil			
Contact:	Steven Hackett					
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A			

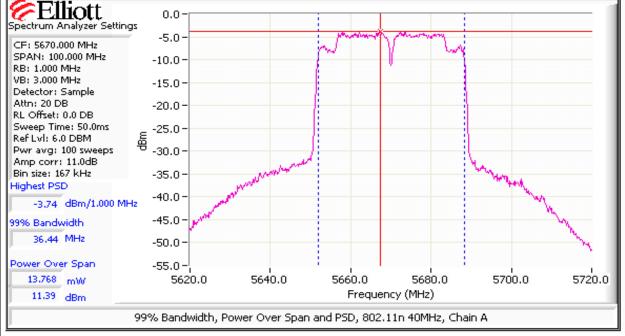






	All 2022 Company		
Client:	Intel Corporation	Job Number:	J80050
Model:	62205ANHMW (Intel® Centrino® Advanced-N 6205)	T-Log Number:	T80214
	02203ANHIVIV (III.el® Celitillo® Advanced-N 0203)	Account Manager:	Christine Krebil
Contact:	Steven Hackett		
Standard:	FCC 15.247 / FCC 15 E / RSS 210 / FCC 15 B	Class:	N/A





Appendix C Photographs of Test Configurations

Uploaded as a separate exhibit

File: R80361 Appendix Page 3 of 3