



**FCC CFR47 PART 15 SUBPART C
INDUSTRY CANADA RSS-210 ISSUE 7
CLASS II PERMISSIVE CHANGE**

CERTIFICATION TEST REPORT

FOR

**Intel® Centrino® Advanced-N 6200
(Tested Inside Of Lenovo ThinkPad X200/X201 Tablet Series)**

**FCC MODEL NUMBER: 622ANHMW
IC MODEL NUMBER: 622ANHU**

**FCC ID: PD9622ANHU
IC: 1000M-9622ANHU**

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: INTEL CORPORATION
2111 NE 25TH AVENUE
HILLSBORO, OREGON 97124, USA

EUT DESCRIPTION: Intel® Centrino® Advanced-N 6200 (Tested Inside Of Lenovo ThinkPad X200/X201 Tablet Series)

FCC MODEL NUMBER: 622ANHMW
IC MODEL NUMBER: 622ANHU

SERIAL NUMBER: Z1ZHJ769P0UX & Z1ZHJ769P00V

DATE TESTED: OCTOBER 13 – NOVEMBER 23, 2009

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass
INDUSTRY CANADA RSS-210 Issue 7 Annex 9	Pass
INDUSTRY CANADA RSS-GEN Issue 2	Pass

Compliance Certification Services, Inc. (CCS) tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by CCS based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by CCS and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by CCS will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For CCS By:

Tested By:



THU CHAN
EMC MANAGER
COMPLIANCE CERTIFICATION SERVICES

VIEN TRAN
EMC ENGINEER
COMPLIANCE CERTIFICATION SERVICES

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 2, and RSS-210 Issue 7.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 1000 MHz	4.94 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a 2x2 WLAN 802.11 a/b/g/n Intel® Centrino® Advanced-N 6200 card.

The radio module is manufactured by Intel Corporation.

5.2. MAXIMUM OUTPUT POWER

The test measurement passed within ± 0.5 dBm of the original output power.

In order to pass the band edge measurements, some frequency bands and channels have to be reduced the output powers as table shown below, and the manufacturer states that this change will be incorporated in the EEPROM, no change on other channel or other UNII bands.

Frequency Band	Mode	Frequency (MHz)	Antenna Chain	Reduced Output Power (dBm)
5.2GHz	HT40	5190	A	11.67
			B	14.89
5.3GHz	HT40	5190	A + B	12.44 + 11.26
5.3GHz	HT40	5310	A	13.30

5.3. DESCRIPTION OF CLASS II PERMISSIVE CHANGE

The major change filed under this application is adding portable tablet Lenovo ThinkPad X200/X201 Tablet Series.

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

ACON Antenna

1A Antenna Part Number	1B Manufacture	1C Antenna Type	1D Cable Assembly Part Number and Information	1E *Peak Gain with Cable loss (dBi)	
Main antenna 25.90675.001	Advanced Connectek Inc.	PIFA	25.90675.001 50 ohm Coaxial. length: 550mm diameter: 1.13mm Connector: U.FL	2400-2500MHz	-0.39 dBi (peak)
				5150-5350MHz	1.45 dBi (peak)
				5470-5725MHz	1.47 dBi (peak)
				5725-5850MHz	0.92 dBi (peak)
Auxiliary antenna 25.90676.001	Advanced Connectek Inc.	PIFA	25.90676.001 50 ohm Coaxial. length: 705mm diameter: 1.13mm Connector: U.FL	2400-2500MHz	0.64 dBi (peak)
				5150-5350MHz	-0.88 dBi (peak)
				5470-5725MHz	-1.3 dBi (peak)
				5725-5850MHz	0.22 dBi (peak)

Wistron (WNC) Antenna

1A Antenna Part Number	1B Manufacture	1C Antenna Type	1D Cable Assembly Part Number and Information	1E *Peak Gain with Cable loss (dBi)	
Main antenna (WNC P/N: 81.EG915.014 (customer P/N:25.90669.001)	WNC Corporation	PIFA	Low Loss 50 ohm Coaxial. length: 555mm diameter: 1.13mm Connector: IPEX	2400-2500MHz	-1.53 dBi (peak)
				5150-5350MHz	0.92 dBi (peak)
				5470-5725MHz	0.03 dBi (peak)
				5725-5850MHz	-0.76 dBi (peak)
AUX Antenna (WNC P/N: 81.EG915.013) (Customer P/N: 25.90670.001)	WNC Corporation	PIFA	Low Loss 50 ohm Coaxial. length: 718mm diameter: 1.13mm Connector: IPEX	2400-2500MHz	1.32 dBi (peak)
				5150-5350MHz	-1.41 dBi (peak)
				5470-5725MHz	0.69 dBi (peak)
				5725-5850MHz	0.14 dBi (peak)

5.5. SOFTWARE AND FIRMWARE

The test utility software used during testing was CRTU version 5.10.25.0.

5.6. WORST-CASE CONFIGURATION AND MODE

The tests were performed on full test worst case channel with ACON antenna installed since it has higher antenna gain, and some spot check with Wistron antenna since it has same type but lower gain antenna @ 5GHz bands.

The worst-case channel is determined as the channel with the highest output power.

The worst-case also investigated for X, Y, Z, and mobile orientation of the support laptop. Mobile position was turned out as worst-case orientation.

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
LAPTOP	LENOVO	X200 TABLET	R9-09BIX 09/07	DoC
LAPTOP	LENOVO	X200 TABLET	R9-09B20 09/07	DoC
AC/DC Adaptor	LENOVO	42T5282	11S92P1156Z1ZDXN9739S8	DoC

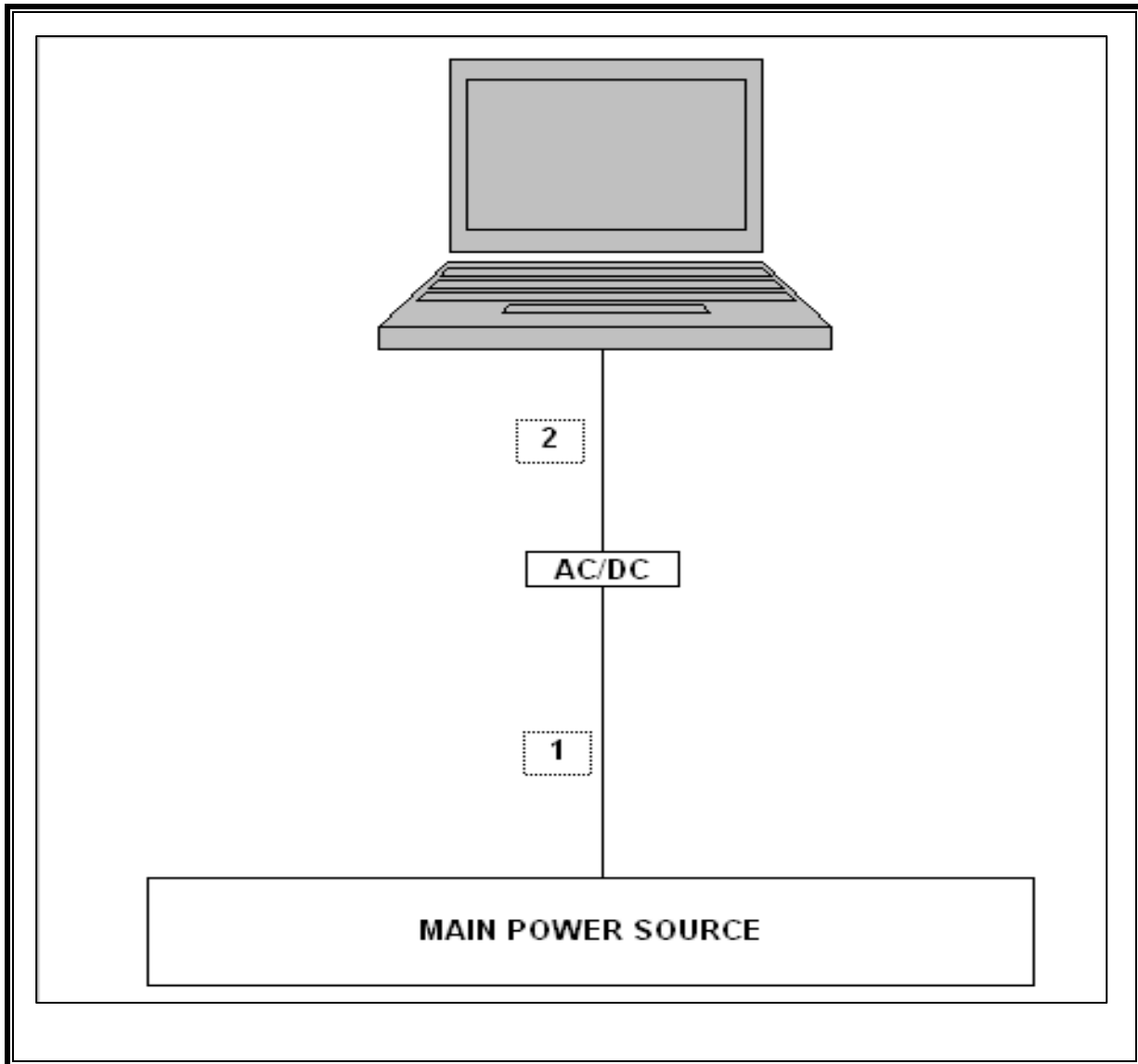
I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	AC	1	AC	Un-Shielded	1.0 m	N/A
2	DC	1	DC	Un-Shielded	2.0 m	Ferrite at one End

TEST SETUP

The EUT is installed in a host laptop computer during the tests. Test software exercised the radio card.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Asset	Cal Due
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01179	08/24/10
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01012	04/20/10
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	05/06/11
LISN, 30 MHz	FCC	LISN-50/250-25-2	N02625	11/06/10
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00885	12/16/09
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01052	02/04/10
Antenna, Horn, 18 GHz	EMCO	3115	C00945	01/29/10
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01011	01/14/10
Peak Power Meter	Boonton	4541	N/A	01/15/10
Peak / Average Power Sensor	Boonton	57318	N/A	02/02/10
Highpass Filter, 4.0 GHz	Micro-Tronics	HPM13351	N02708	N/A
Highpass Filter, 7.6 GHz	Micro-Tronics	HPM13195	N02682	N/A

7. ANTENNA PORT TEST RESULTS

7.1. 802.11n HT40 MODE IN THE 5.2 GHz & 5.3GHz BANDS

7.1.1. OUTPUT POWER

LIMITS

FCC §15.407 (a) (1 & 2)

IC RSS-210 A9.2 (1 & 2)

For the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 50 mW or $4 \text{ dBm} + 10 \log B$, where B is the 26-dB emission bandwidth in MHz.

For the 5.25-5.35 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26-dB emission bandwidth in MHz.

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

The test is performed in accordance with FCC Public Notice: APPENDIX A Guidelines for Assessing Unlicensed National Information Infrastructure (U-NII) Devices – Part 15, Subpart E, August 2002.

The transmitter output operates continuously therefore Method # 1 is used.

RESULTS

HT40_5190MHz_CHAIN A & B

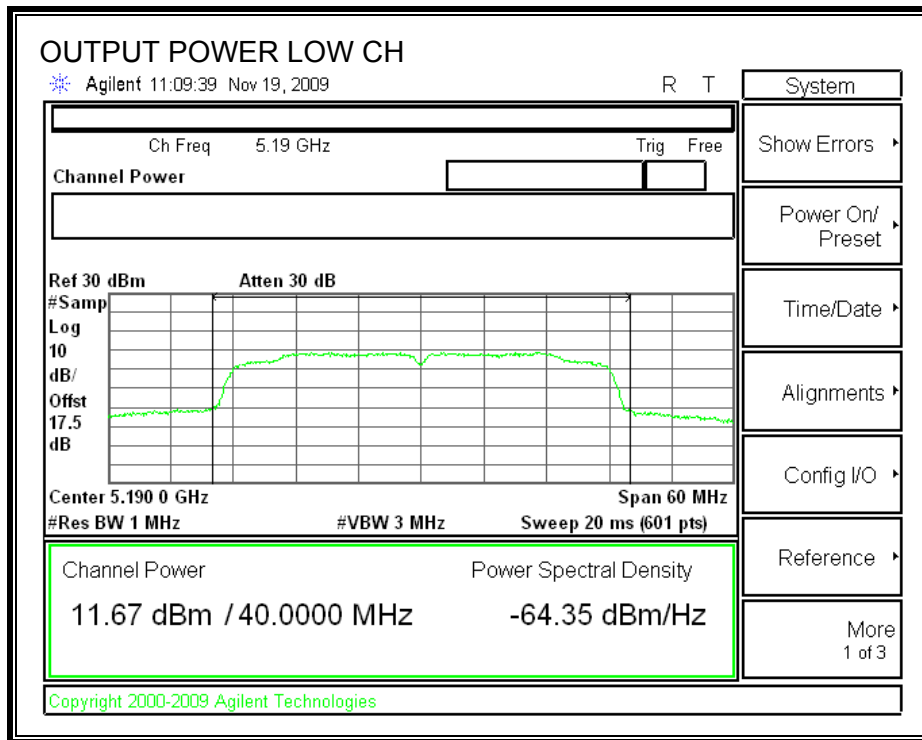
Limit

Channel	Frequency (MHz)	Chain	Fixed Limit (dBm)	B (MHz)	4 + 10 Log B Limit (dBm)	Antenna Gain (dBi)	Limit (dBm)
Low	5190	A	17	37.05	19.69	4.15	17.00
Low	5190	B	17	37.33	19.72	4.15	17.00

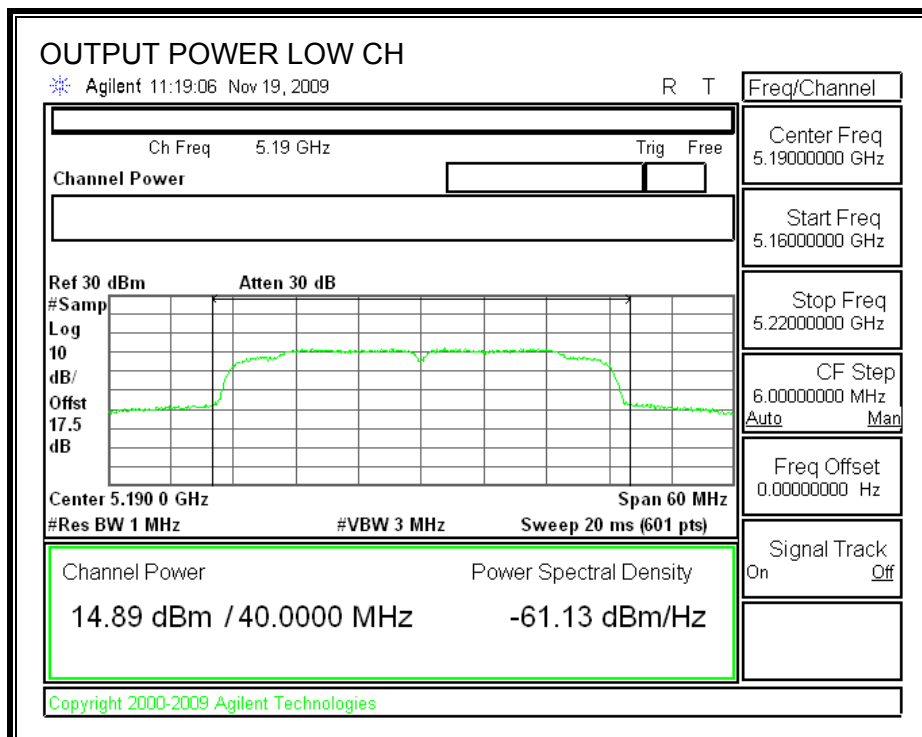
Results

Channel	Frequency (MHz)	Chain	Power (dBm)	Limit (dBm)	Margin (dB)
Low	5190	A	11.67	17.00	-5.33
Low	5190	B	14.89	17.00	-2.11

OUTPUT POWER (HT40)
CHAIN A



CHAIN B



RESULTS

HT40_5190MHz_CHAIN A+B

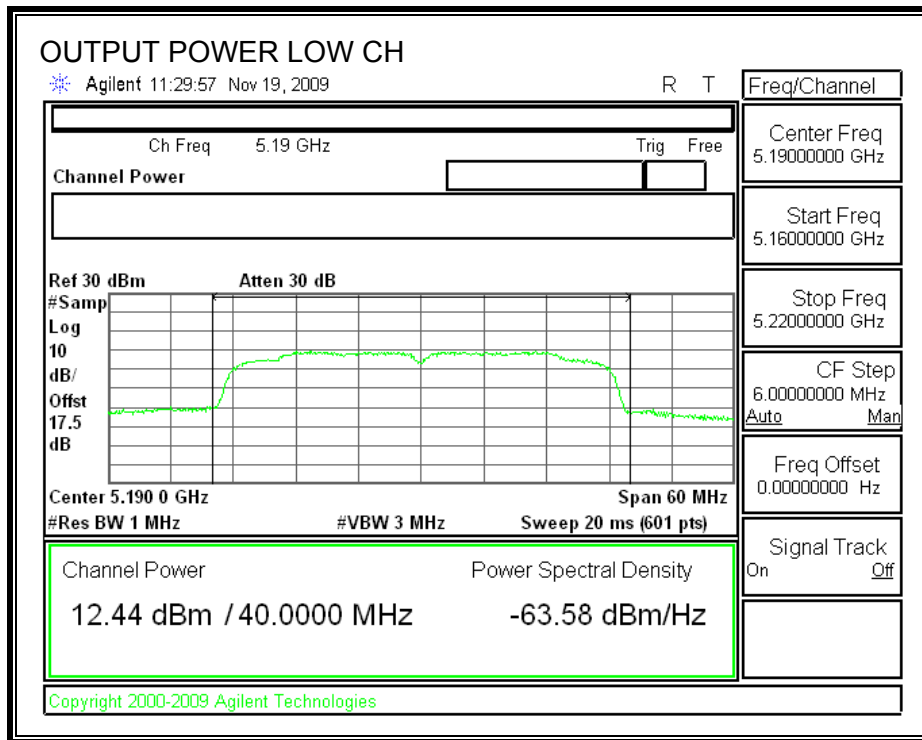
Limit

Channel	Frequency (MHz)	Fixed Limit (dBm)	B (MHz)	4 + 10 Log B Limit (dBm)	Antenna Gain (dBi)	Limit (dBm)
Low	5190	17	37.113	19.70	4.15	17.00

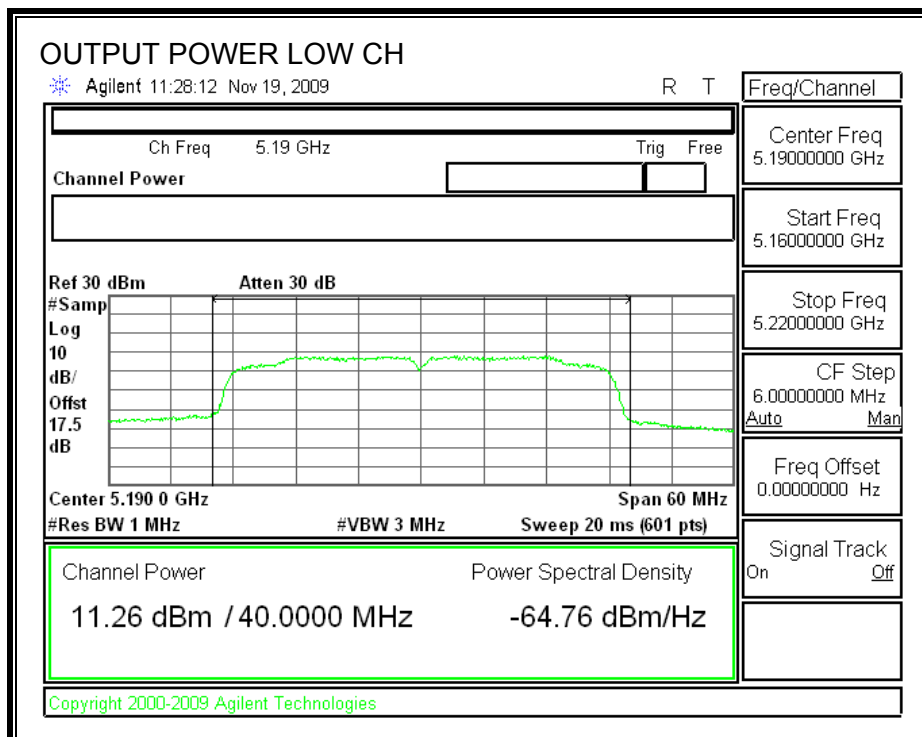
Individual Chain Results

Channel	Frequency (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Total Power (dBm)	Limit (dBm)	Margin (dB)
Low	5190	12.44	11.26	14.90	17.00	-2.10

OUTPUT POWER (HT40)
CHAIN A



CHAIN B



RESULTS

HT40_5310MHz_CHAIN A

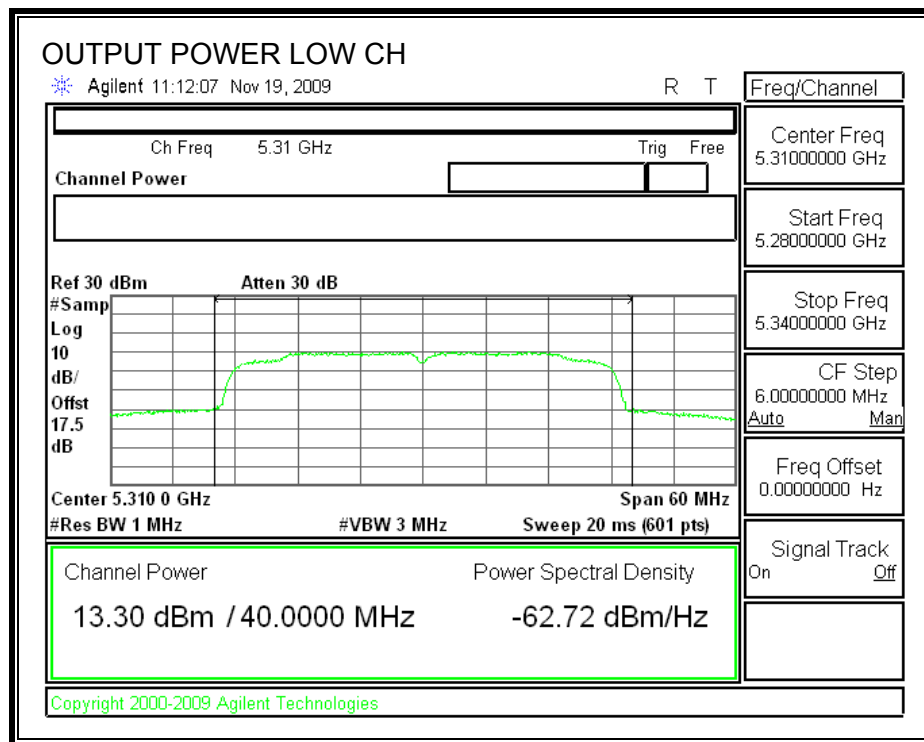
Limit

Channel	Frequency (MHz)	Chain	Fixed Limit (dBm)	B (MHz)	11 + 10 Log B (dBm)	Antenna Gain (dBi)	Limit (dBm)
High	5310	A	24	37.195	26.70	1.45	24.00

Results

Channel	Frequency (MHz)	Chain	Power (dBm)	Limit (dBm)	Margin (dB)
High	5310	A	13.30	24.00	-10.70

**OUTPUT POWER (HT40)
 CHAIN A**



8. RADIATED TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-210 Clause 2.6 (Transmitter)

IC RSS-GEN Clause 6 (Receiver)

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

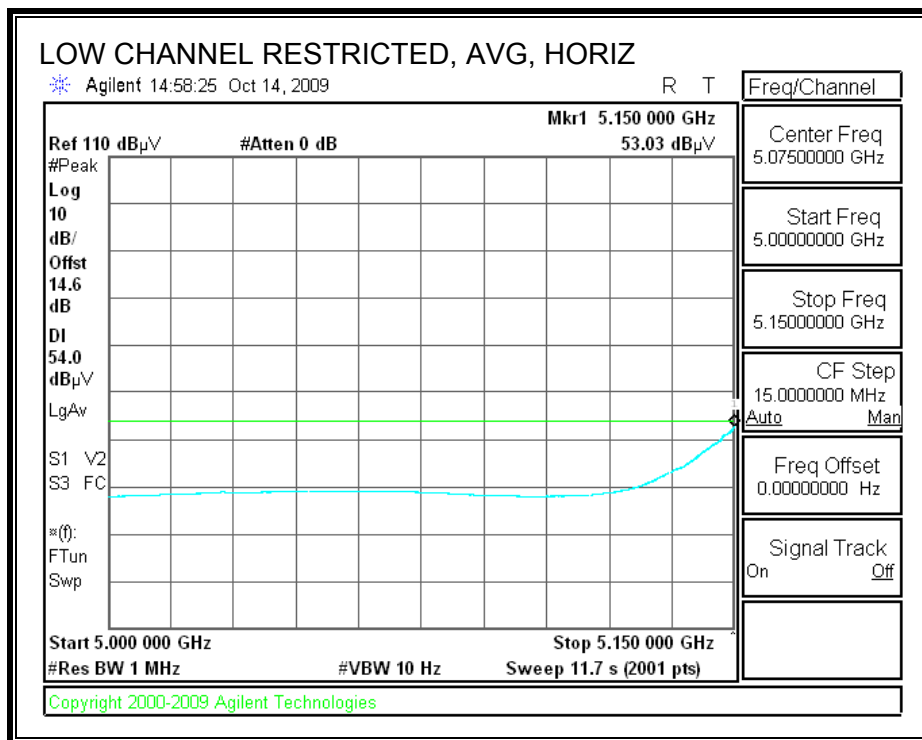
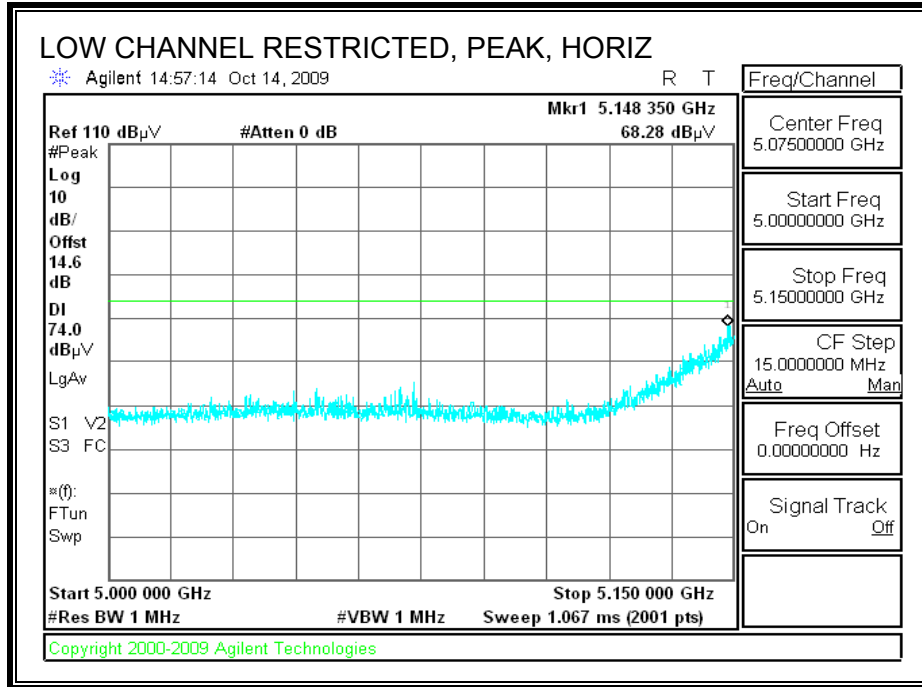
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

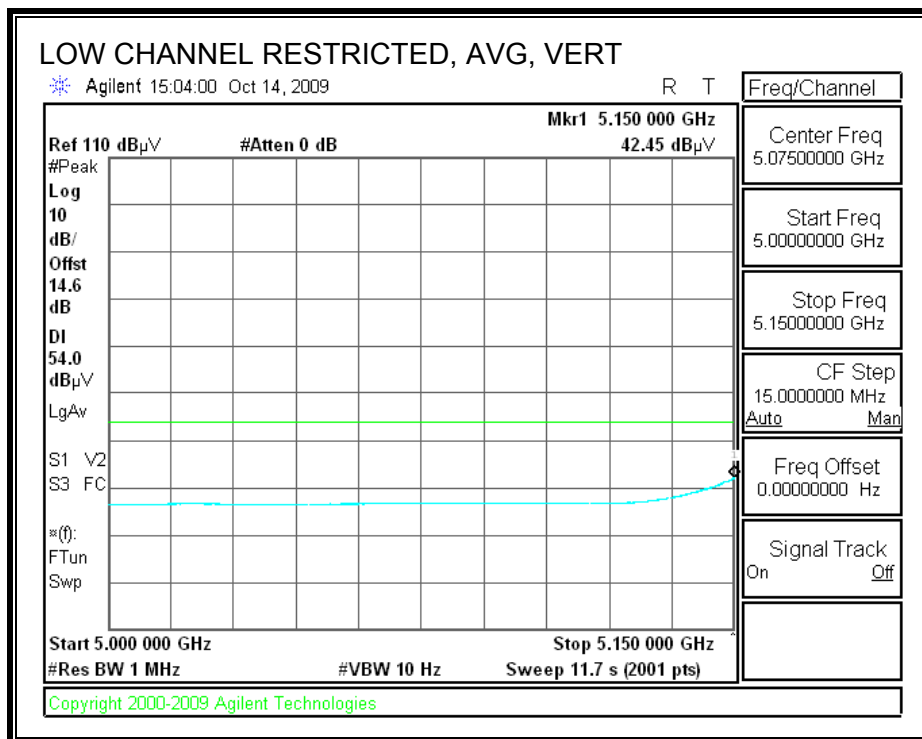
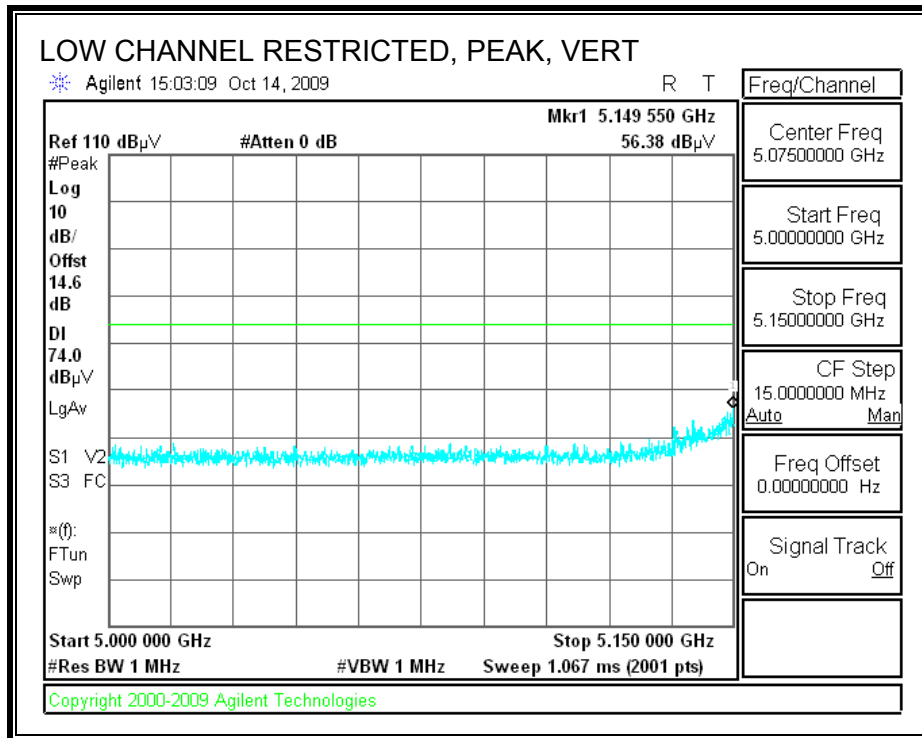
ACON ANTENNA

8.2.TRANSMITTER ABOVE 1 GHz

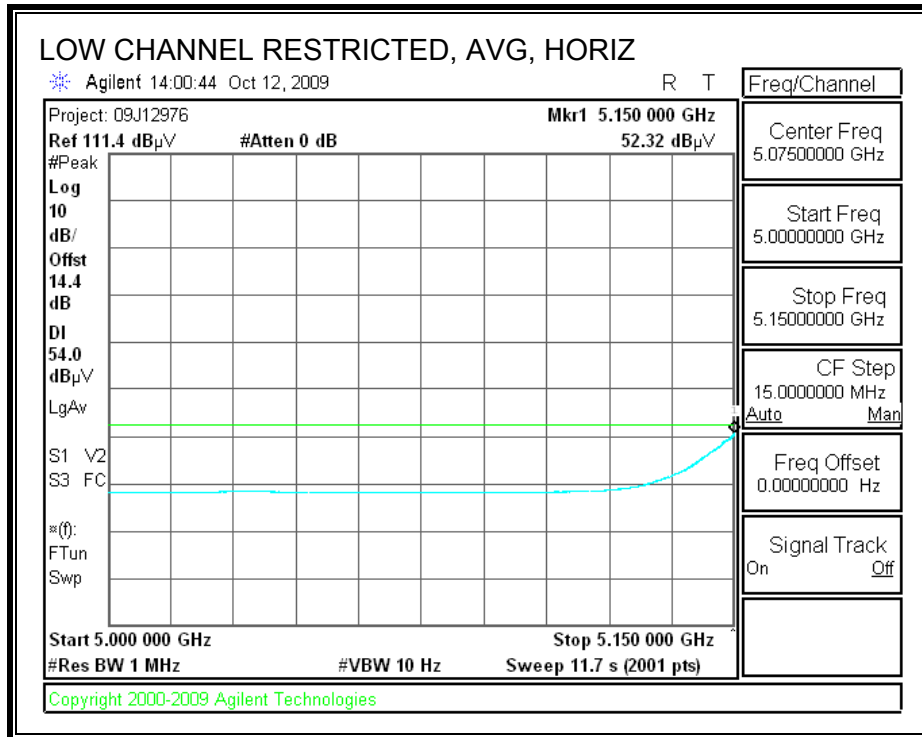
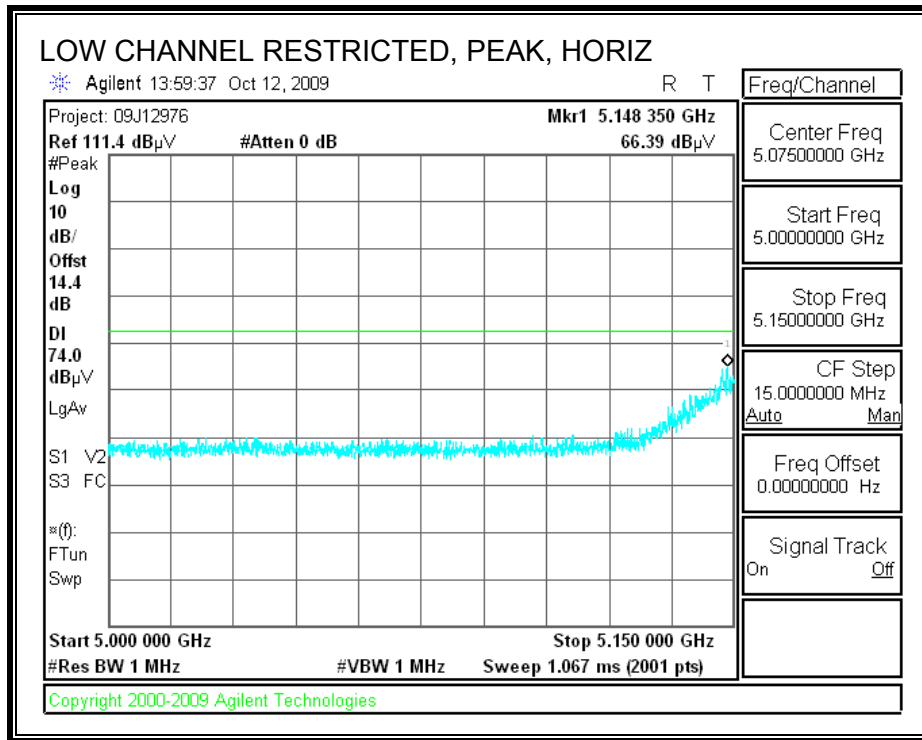
8.2.1. 802.11a MODE IN THE LOWER 5.2 GHz BAND_CHAIN A RESTRICTED BANEDGE (LOW CHANNEL, HORIZONTAL)



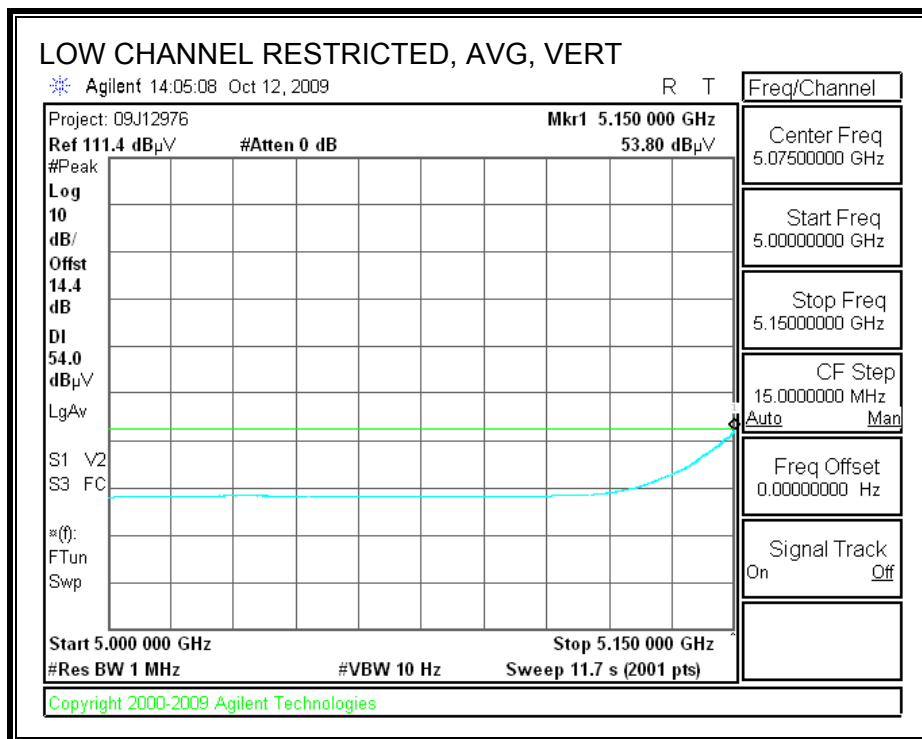
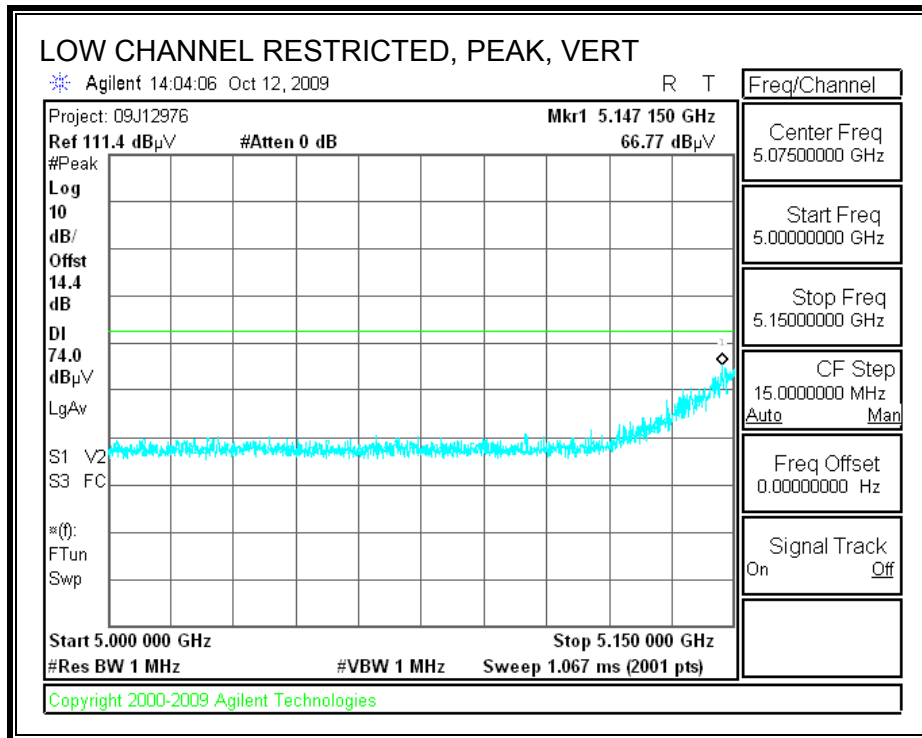
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



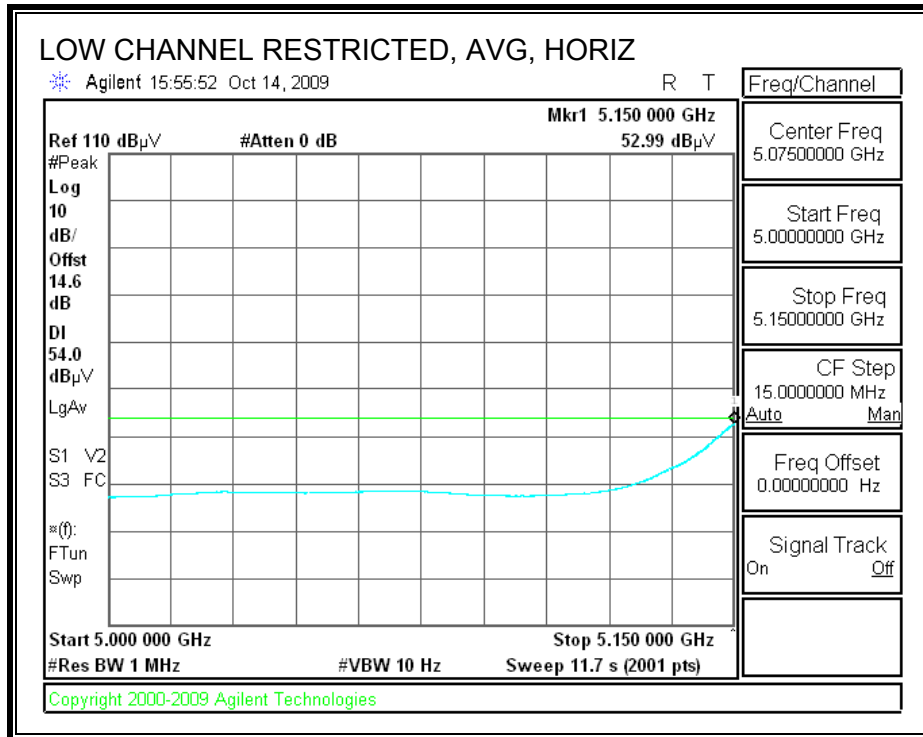
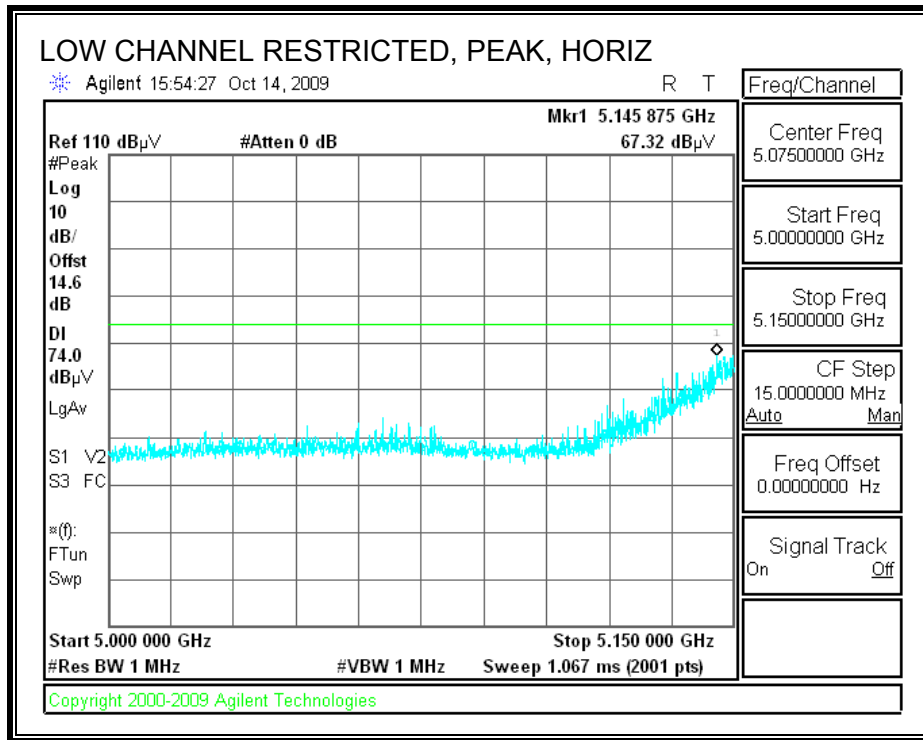
8.2.2. 802.11a MODE IN THE LOWER 5.2 GHz BAND_CHAIN B
RESTRICTED BANEDGE (LOW CHANNEL, HORIZONTAL)



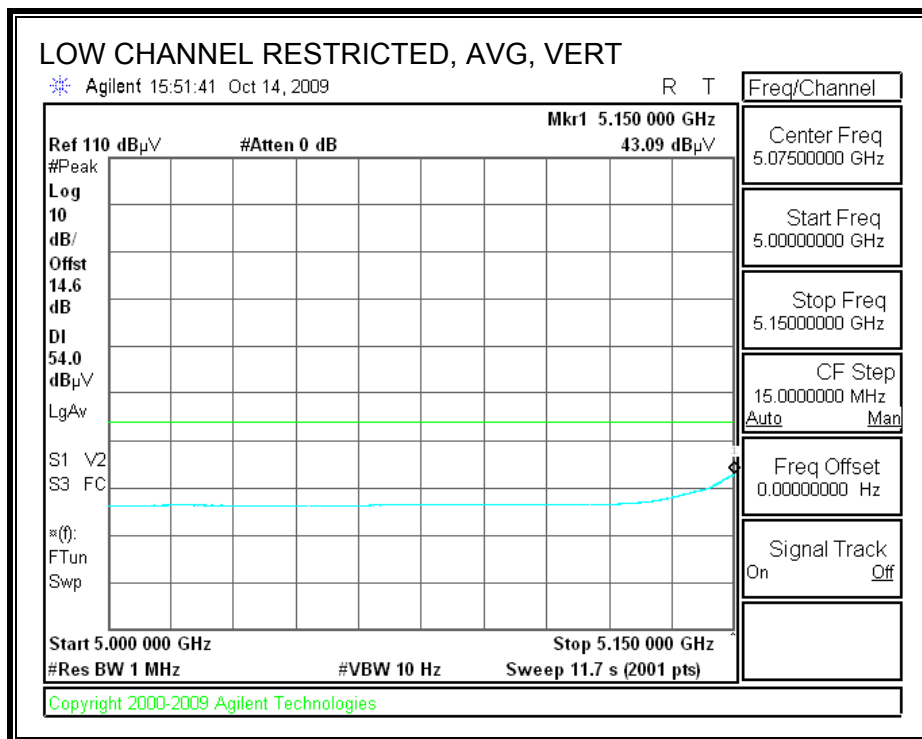
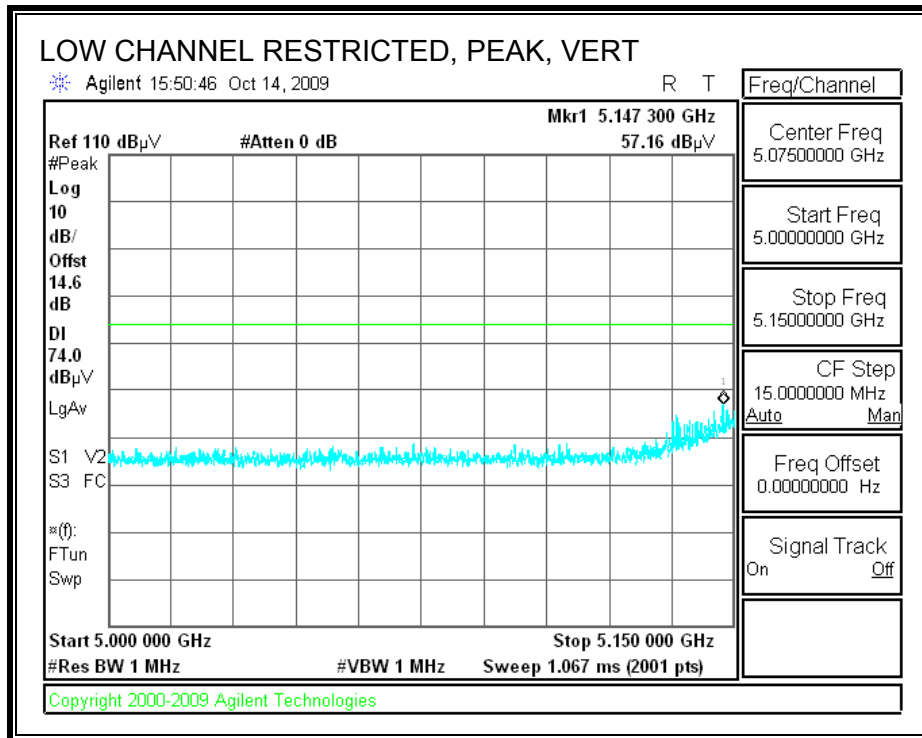
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



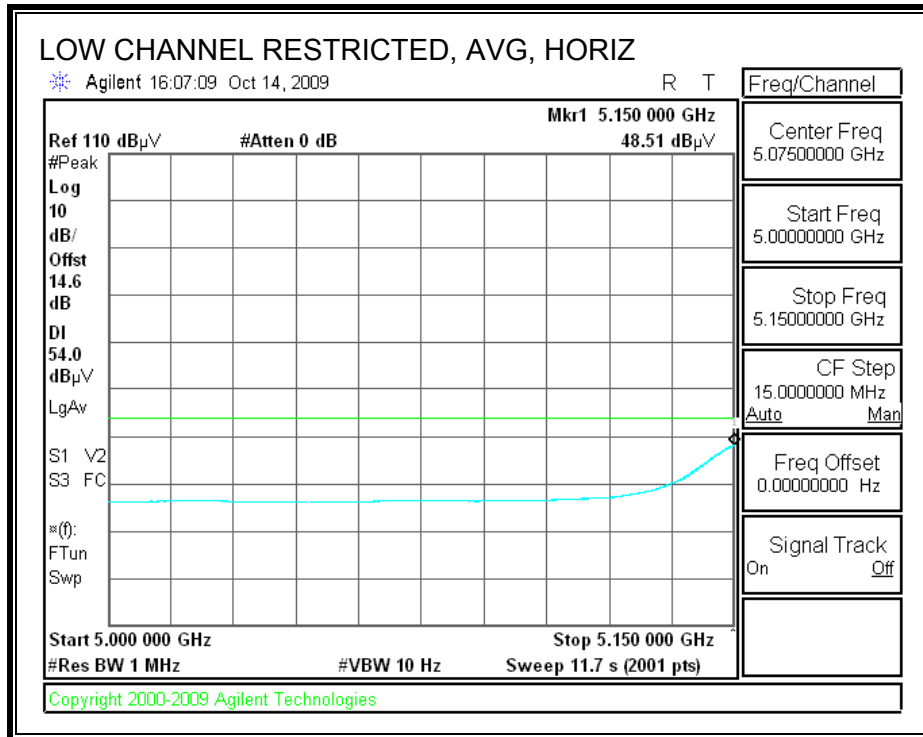
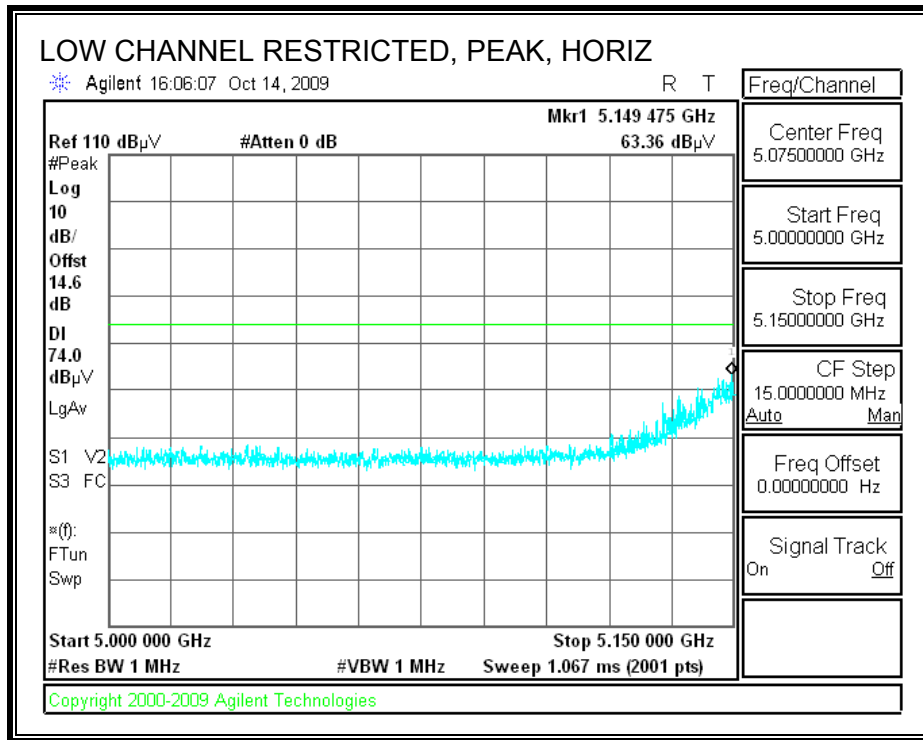
8.2.3. 802.11n HT20 MODE IN THE LOWER 5.2 GHz BAND_CHAIN A
RESTRICTED BANEDGE (LOW CHANNEL, HORIZONTAL)



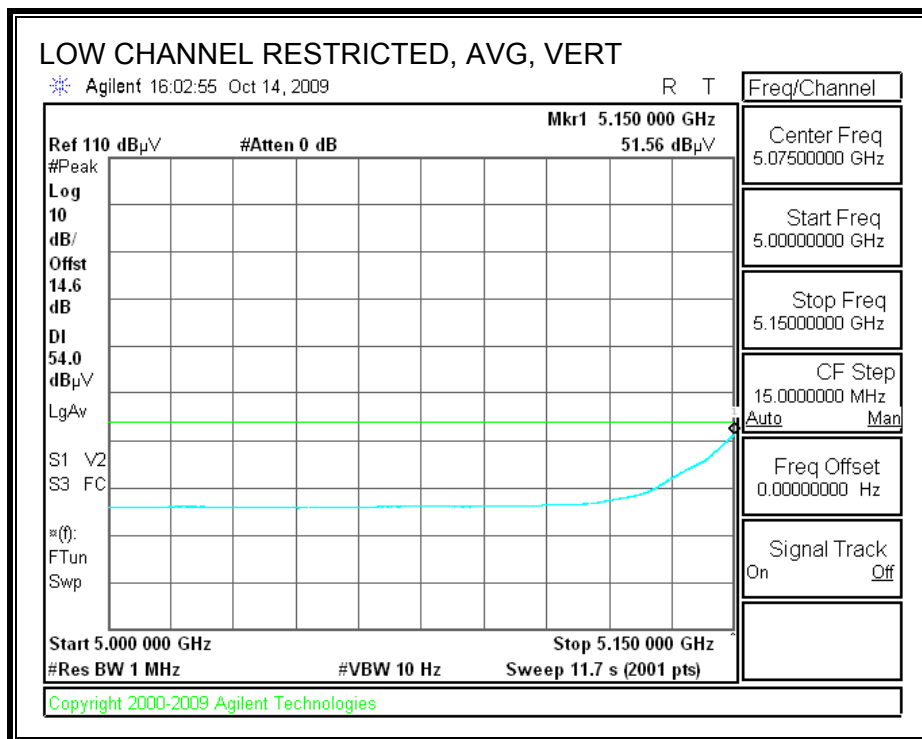
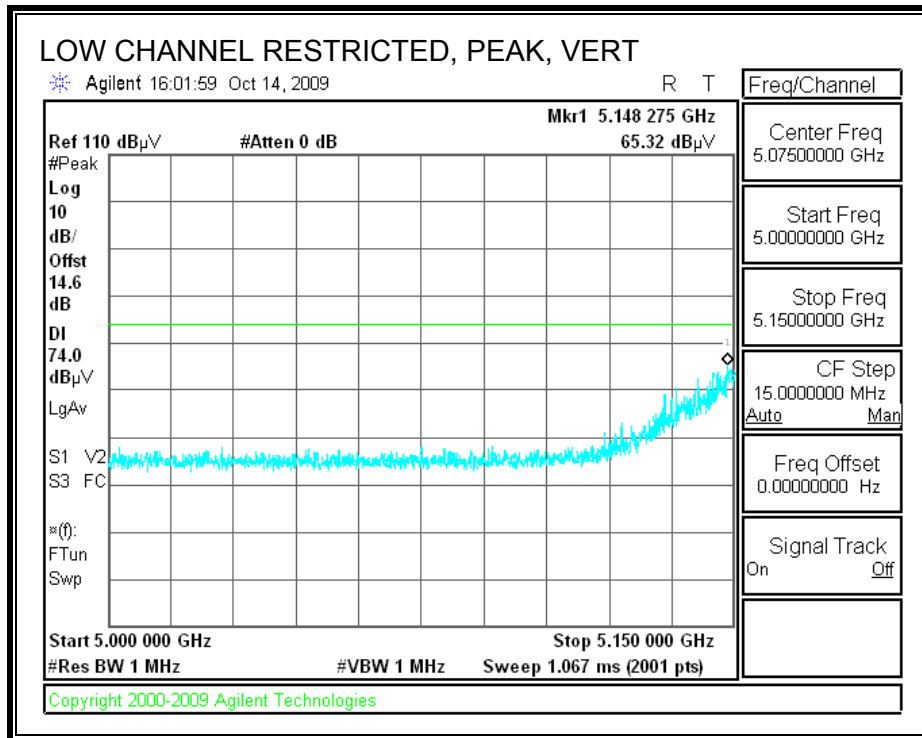
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



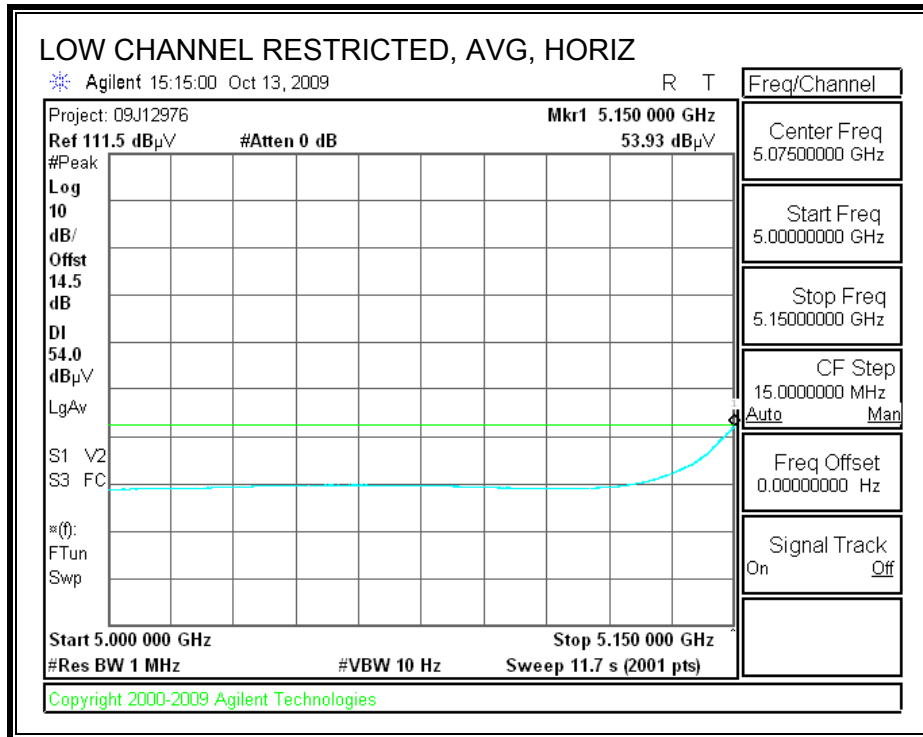
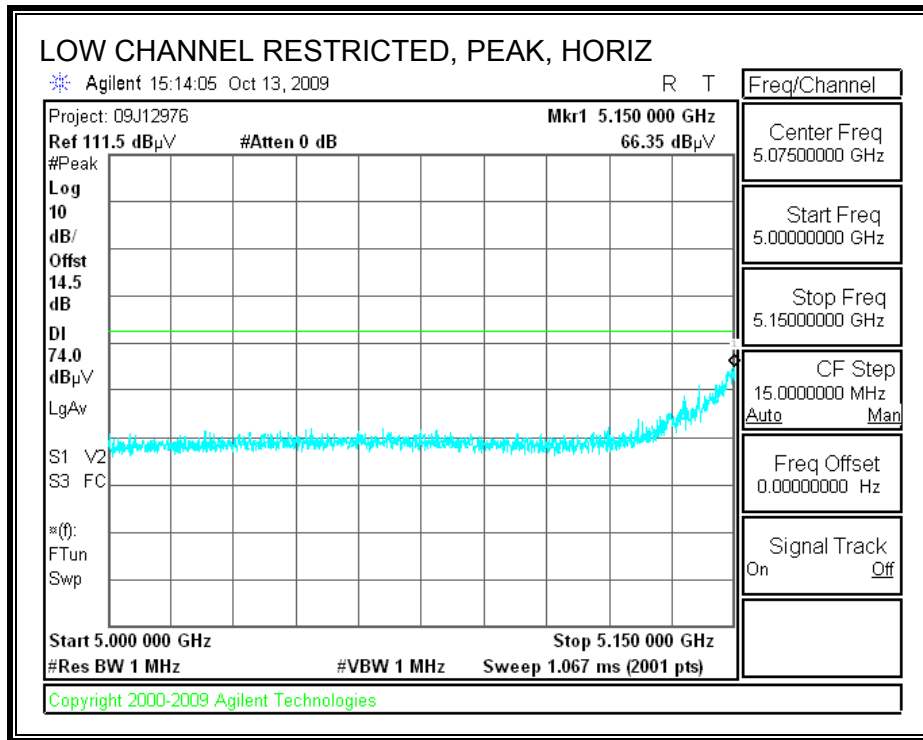
8.2.4. 802.11n HT20 MODE IN THE LOWER 5.2 GHz BAND_CHAIN B
RESTRICTED BANEDGE (LOW CHANNEL, HORIZONTAL)



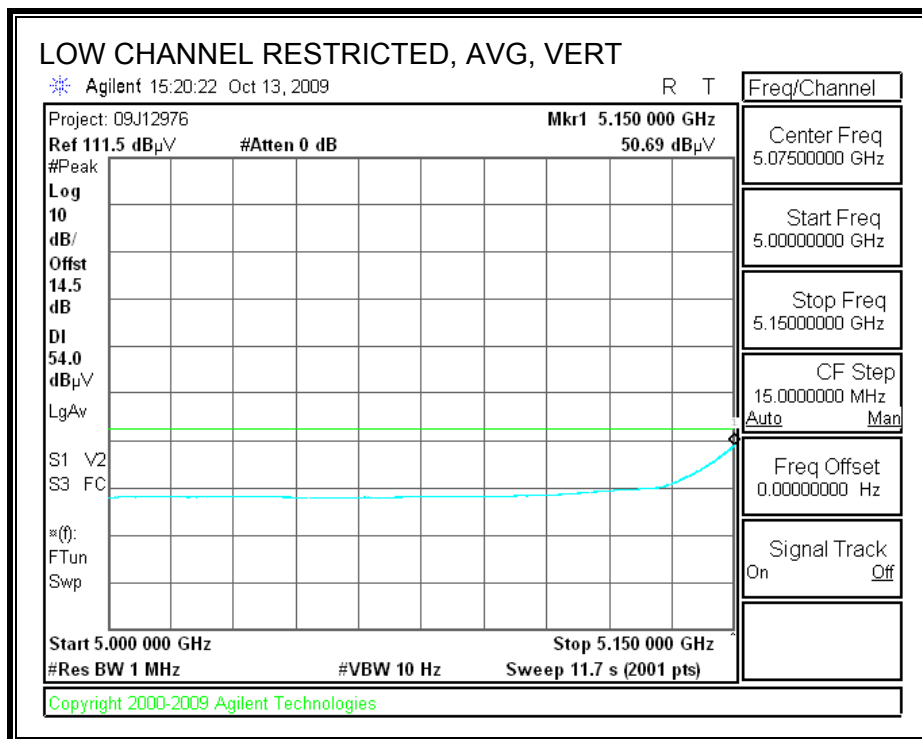
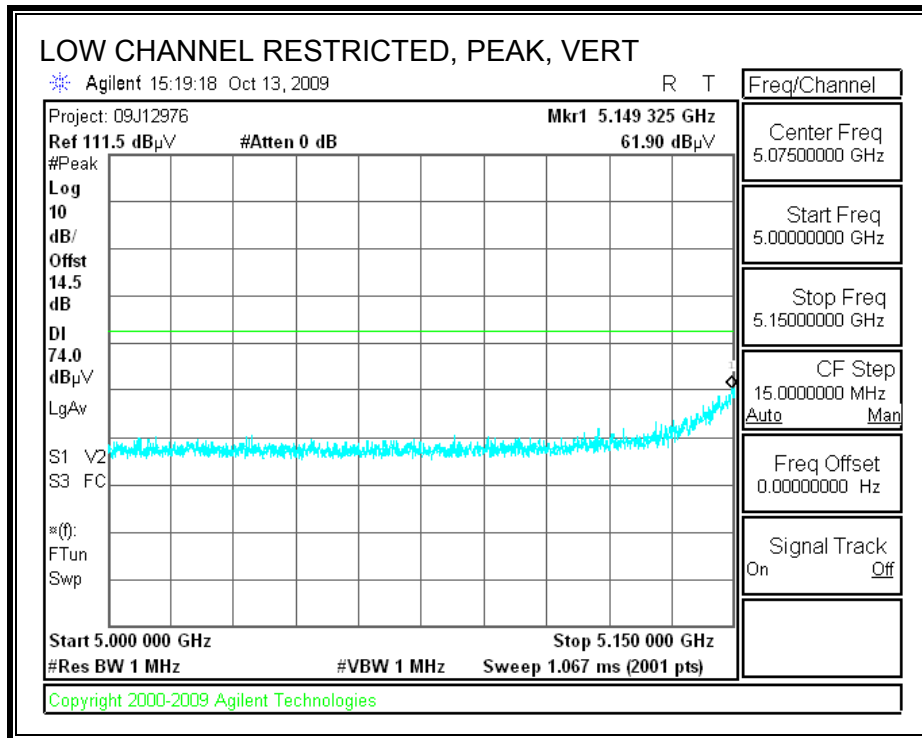
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



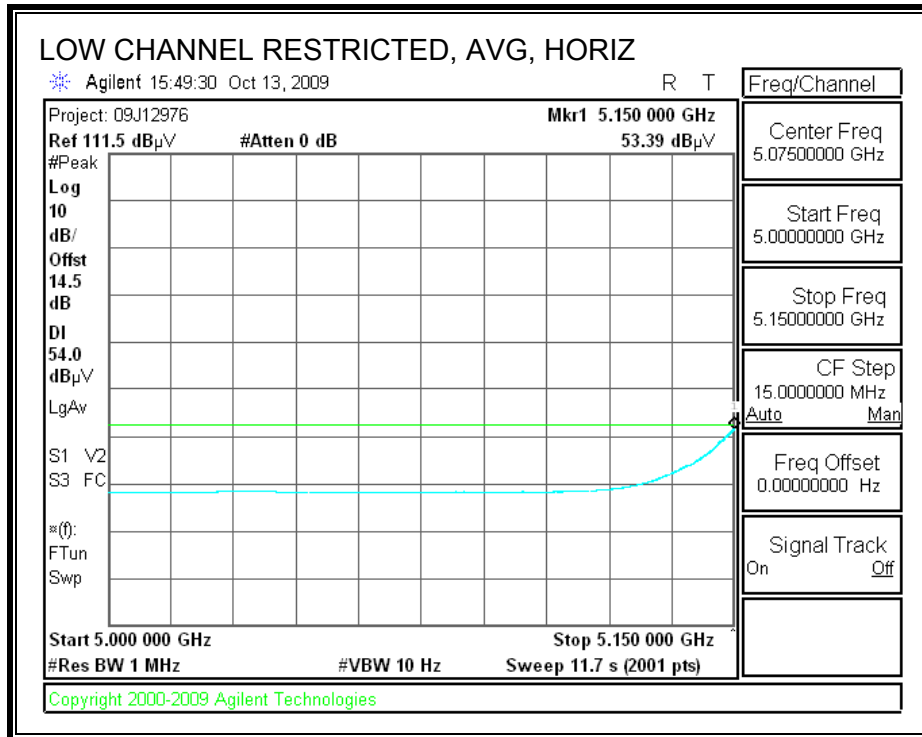
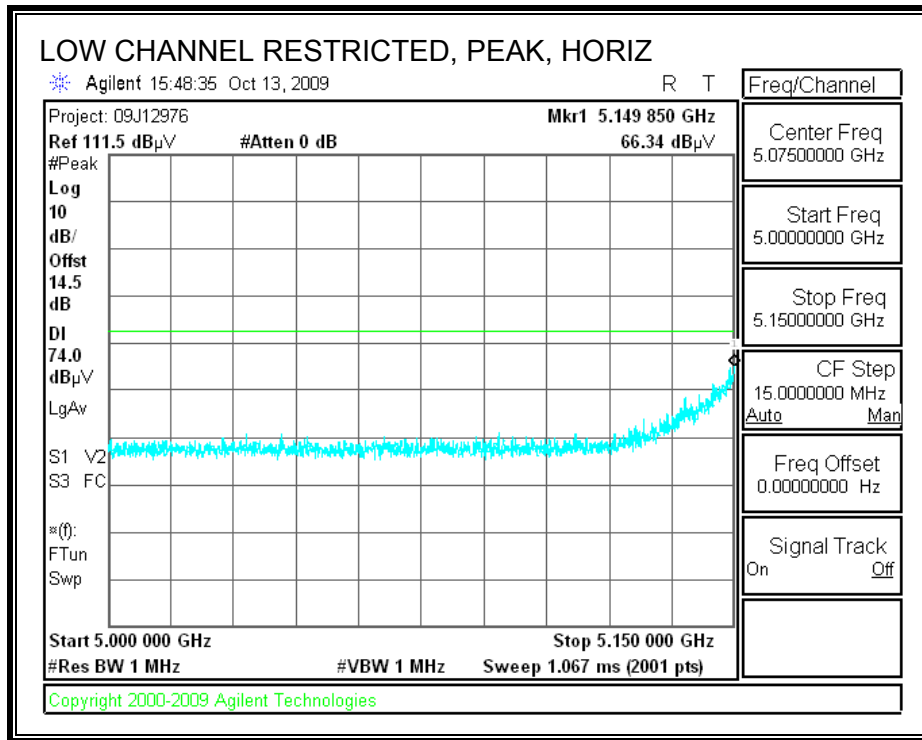
8.2.5. 802.11n HT40 MODE IN THE LOWER 5.2 GHz BAND_CHAIN A
RESTRICTED BANEDGE (LOW CHANNEL, HORIZONTAL)



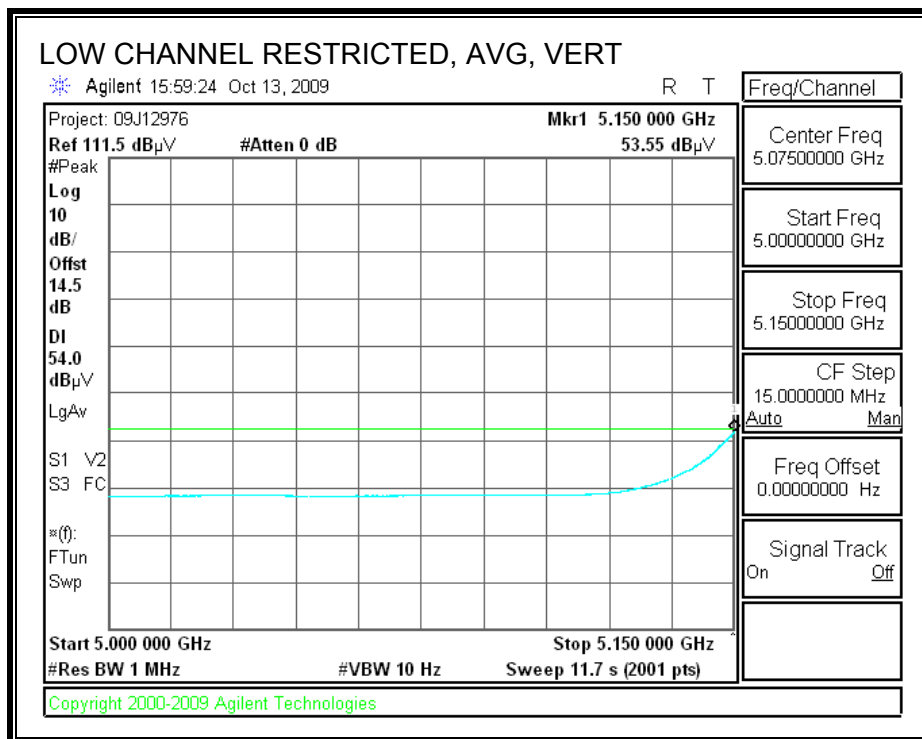
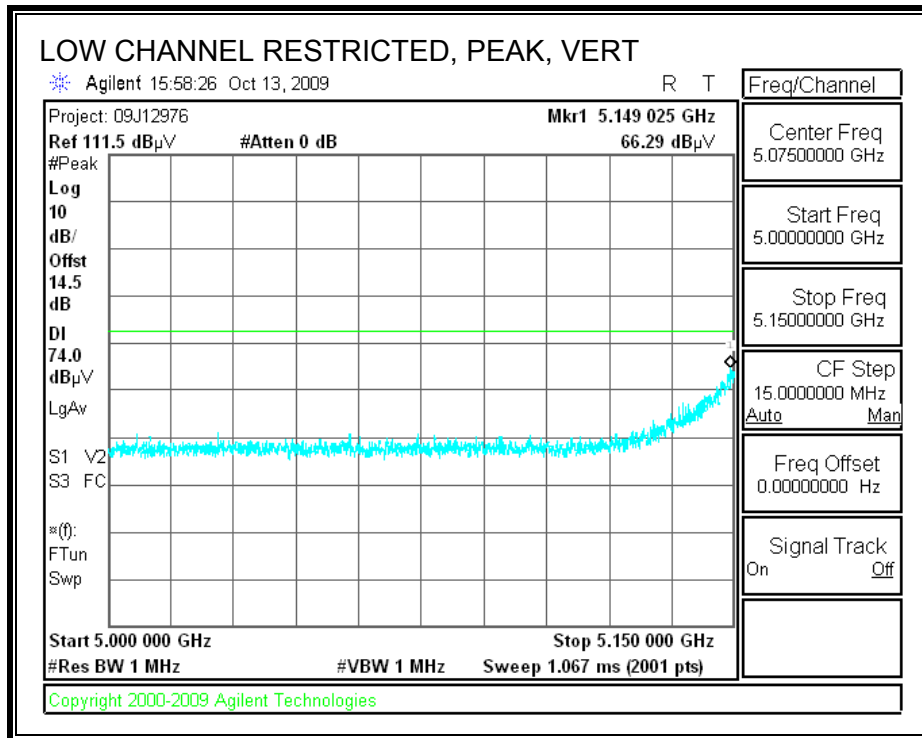
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



8.2.6. 802.11n HT40 MODE IN THE LOWER 5.2 GHz BAND_CHAIN B
RESTRICTED BANEDGE (LOW CHANNEL, HORIZONTAL)

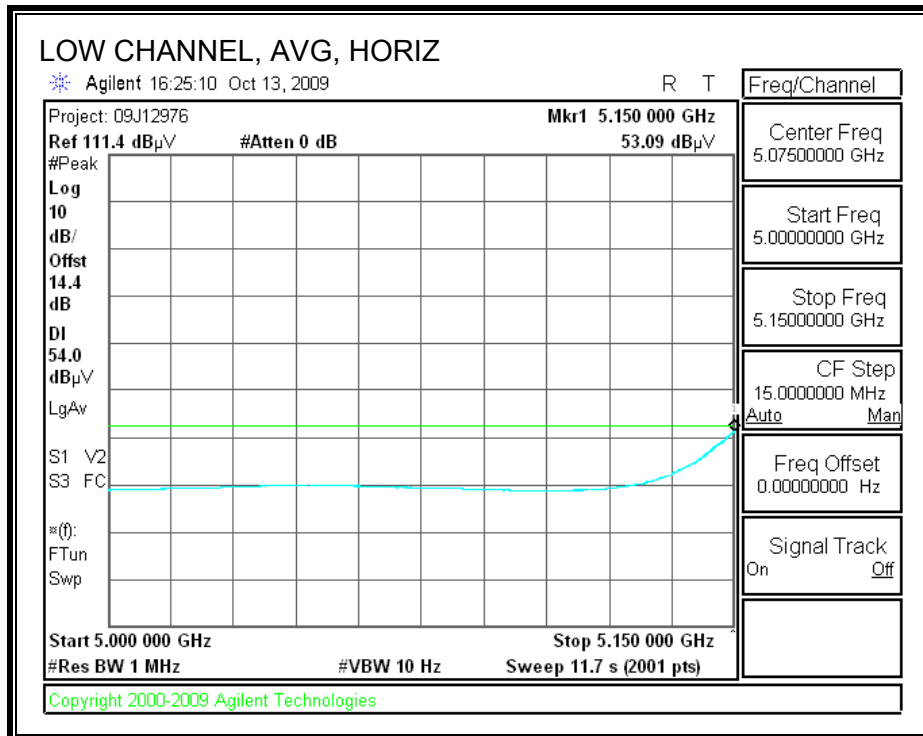
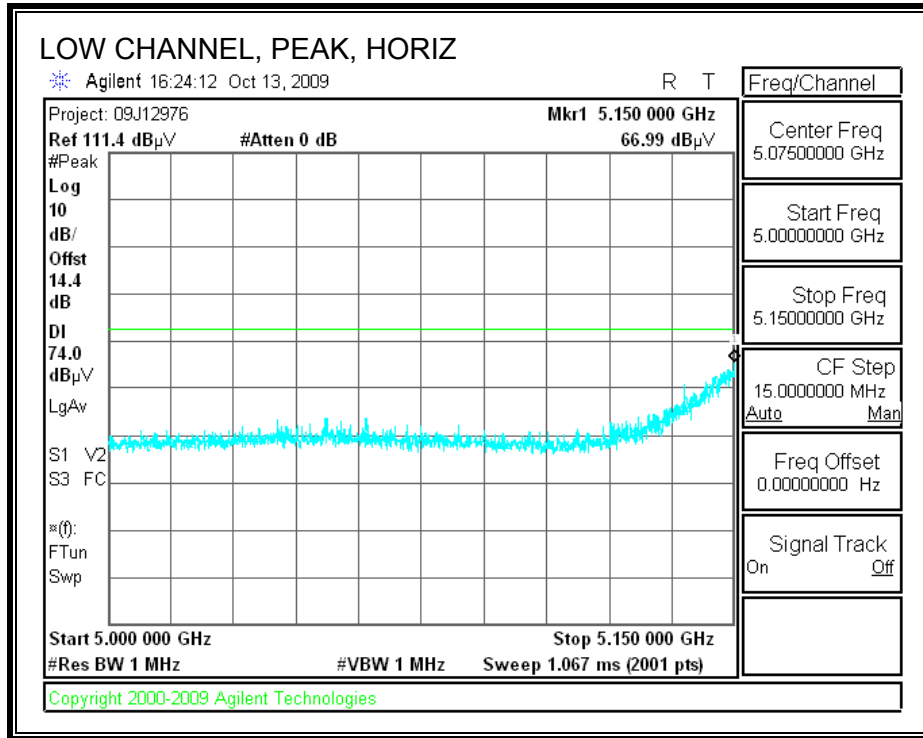


RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

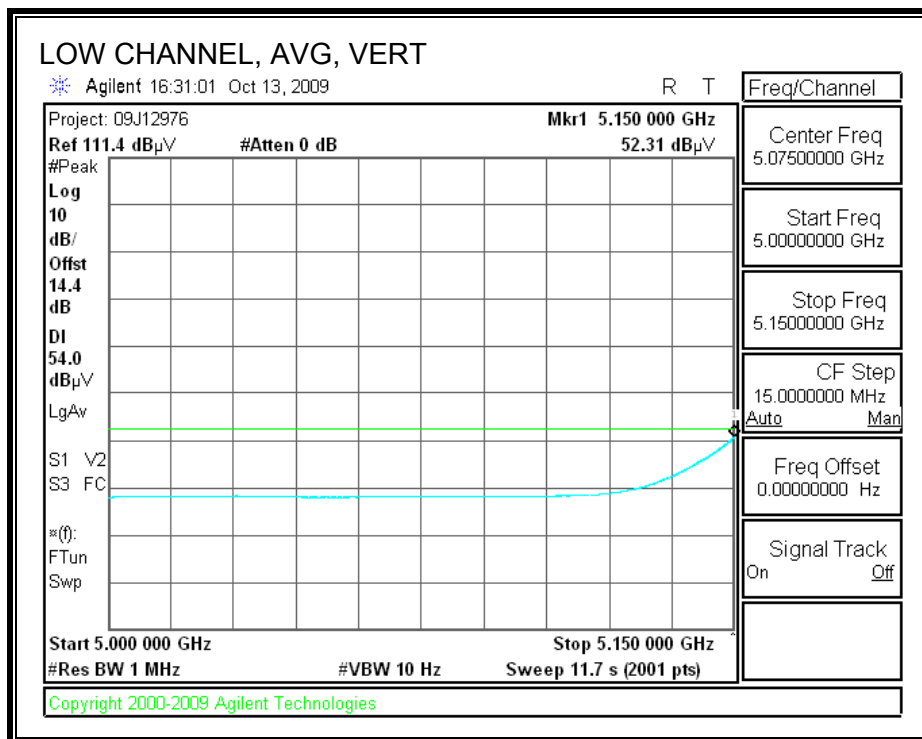
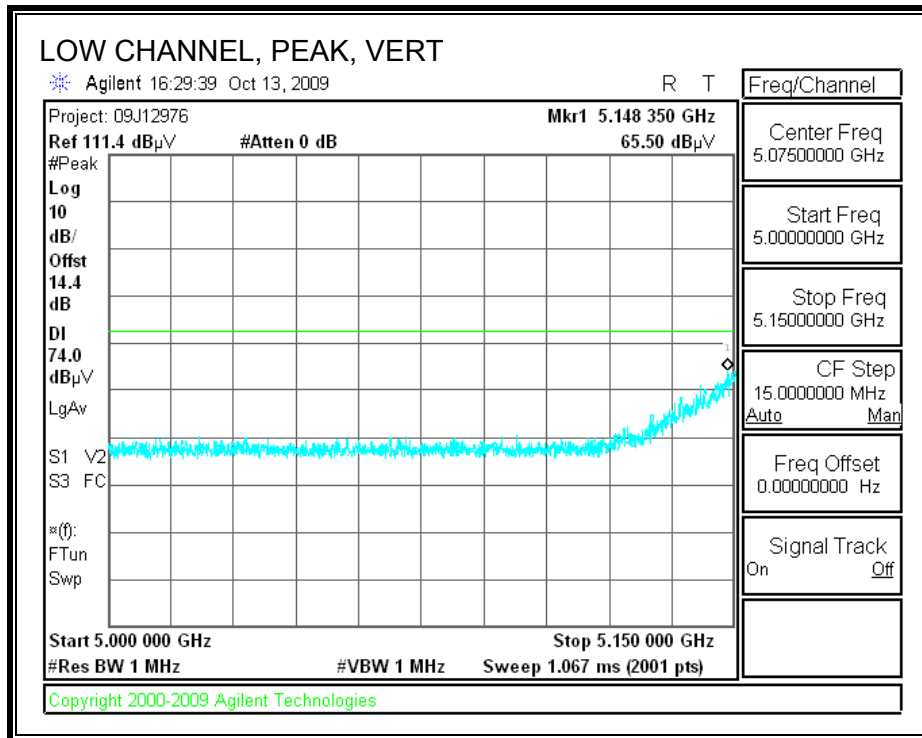


8.2.7. 802.11n HT20 MODE IN THE LOWER 5.2 GHz BAND_CHAIN A+B

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

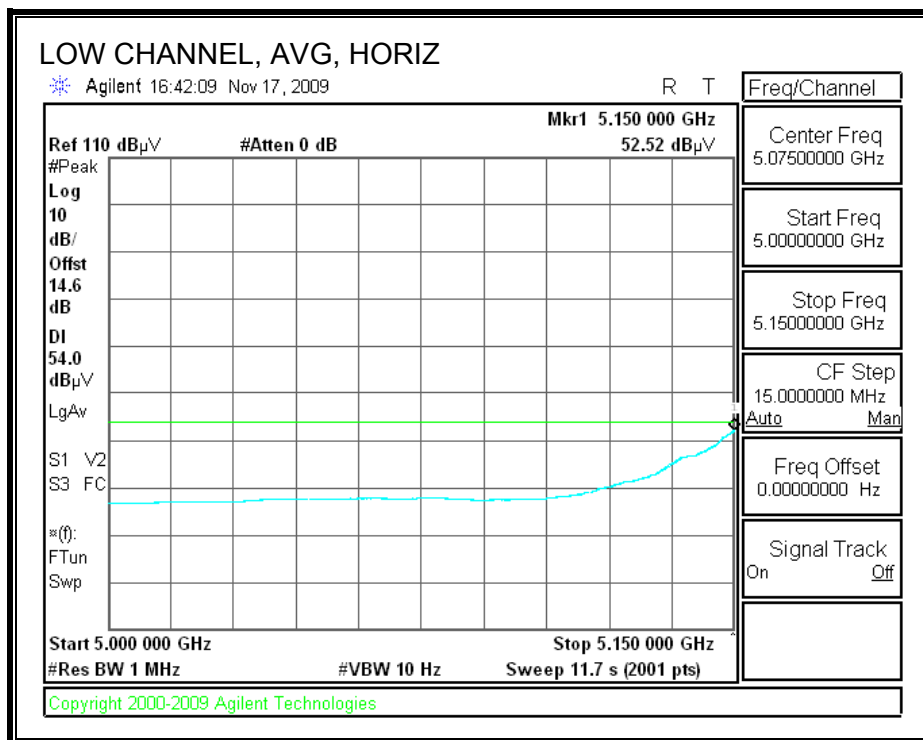
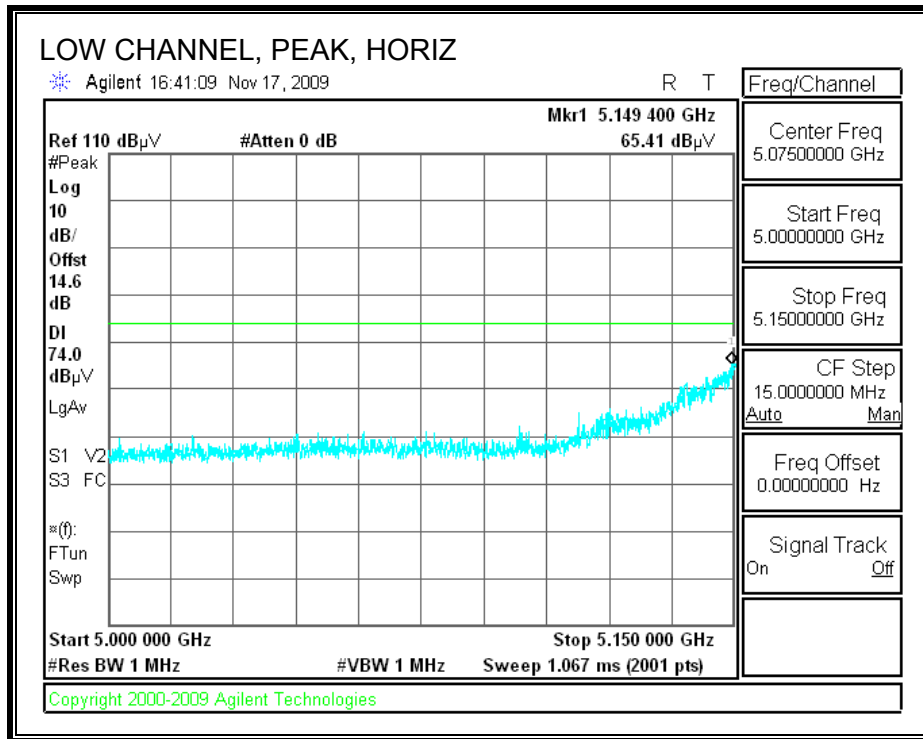


RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

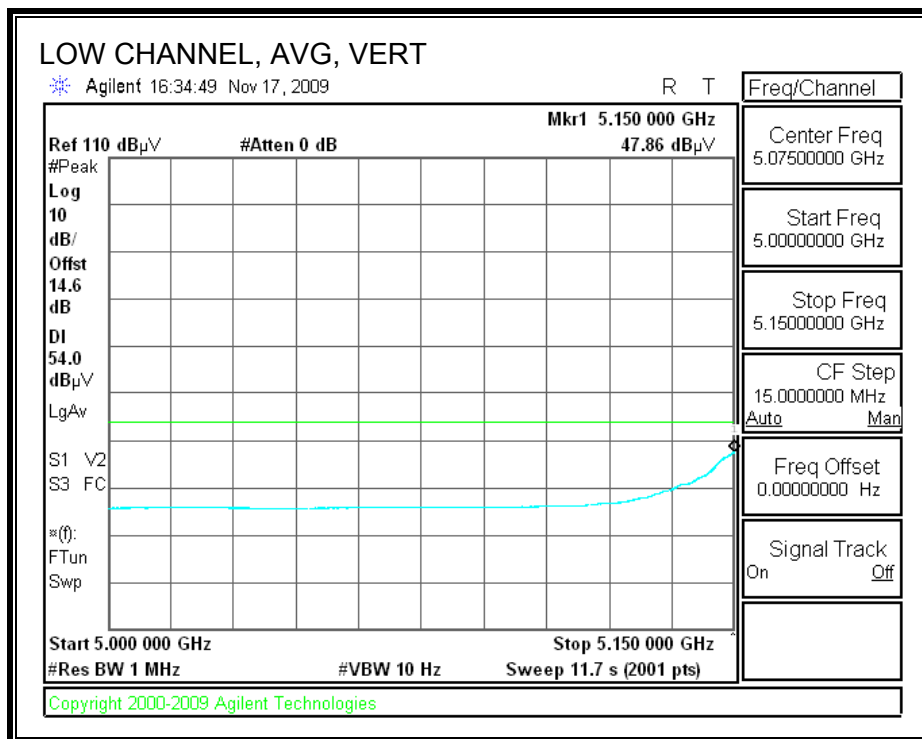
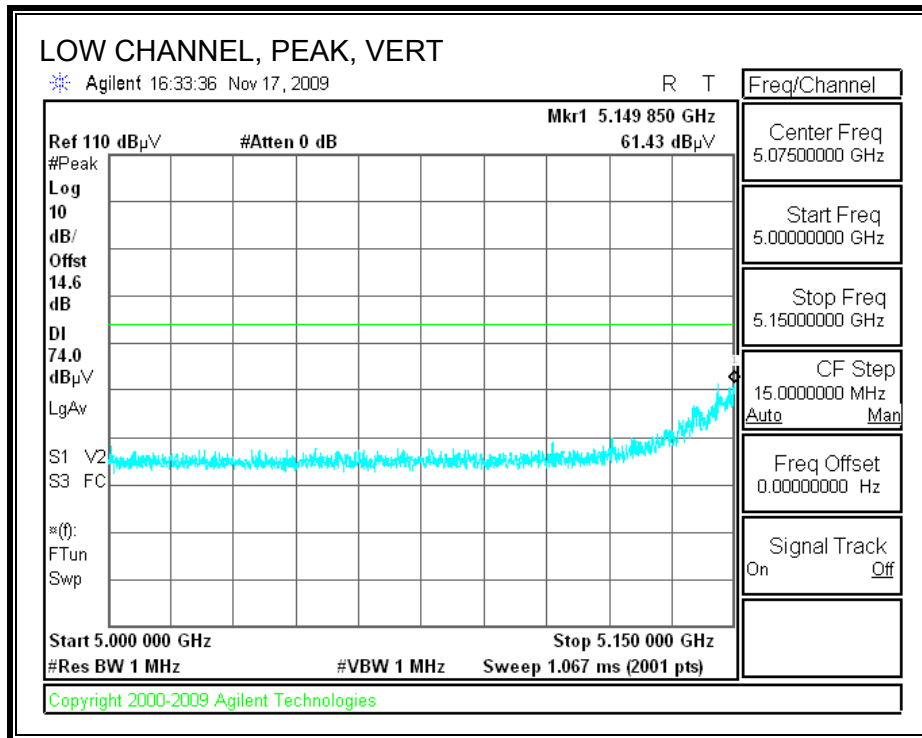


8.2.8. 802.11n HT40 MODE IN THE LOWER 5.2 GHz BAND_CHAIN A+B

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

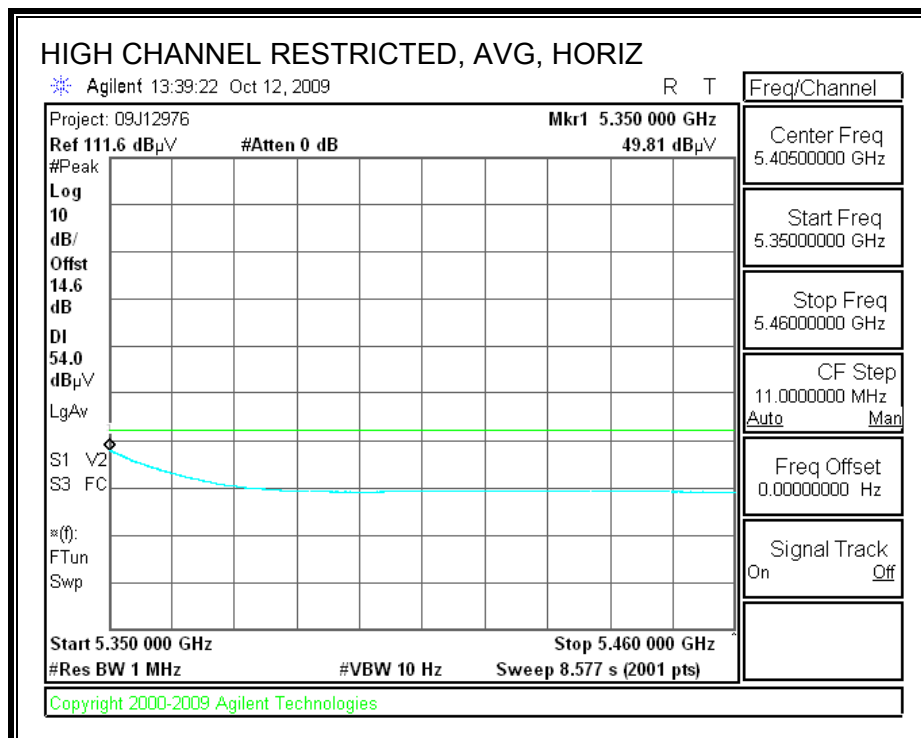
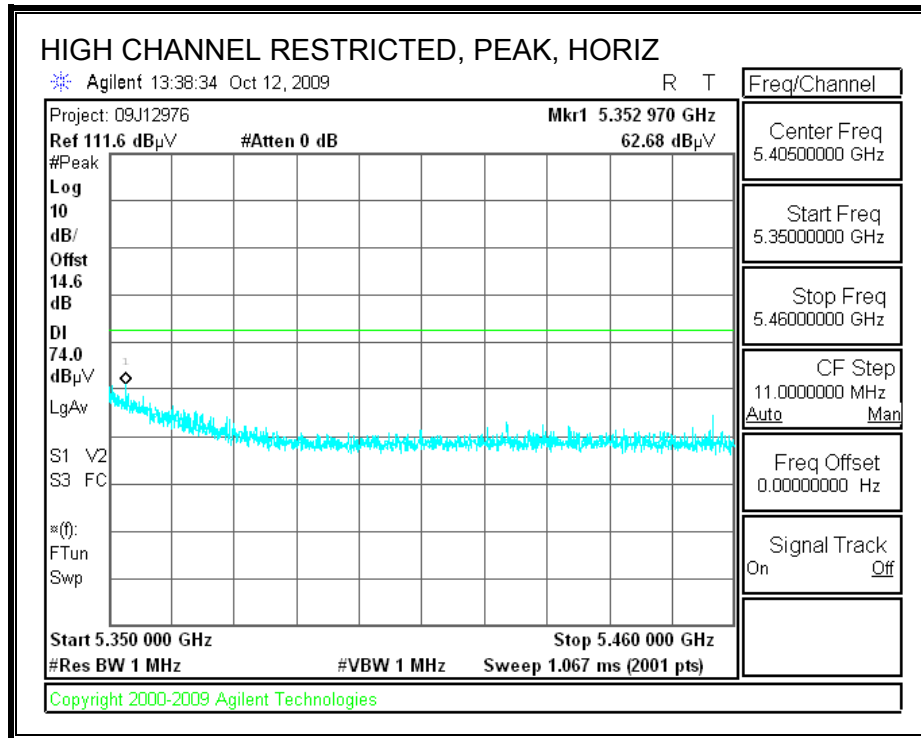


RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

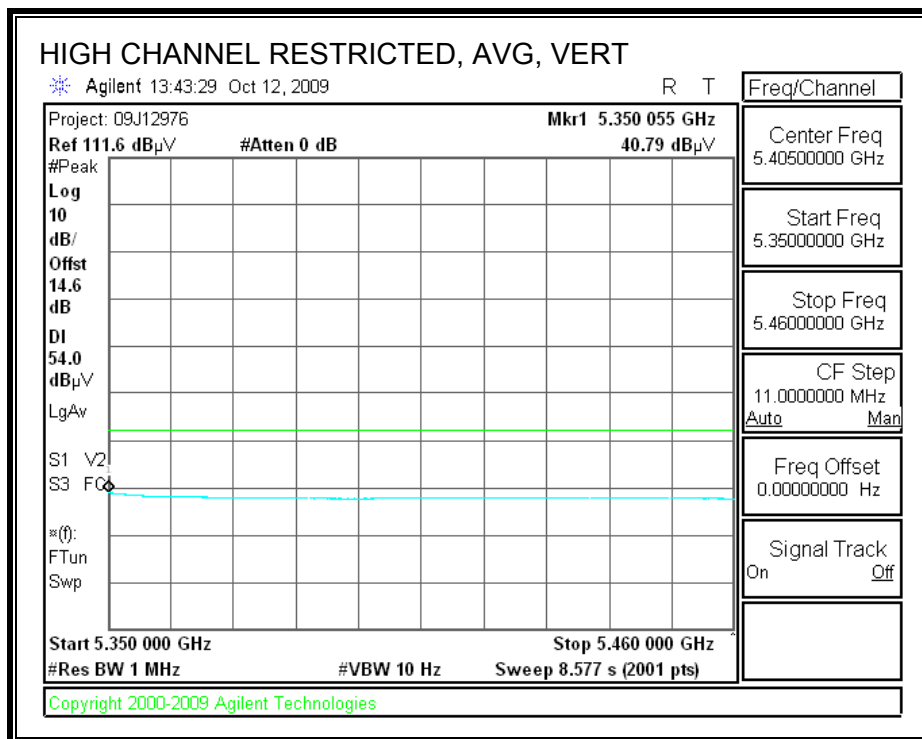
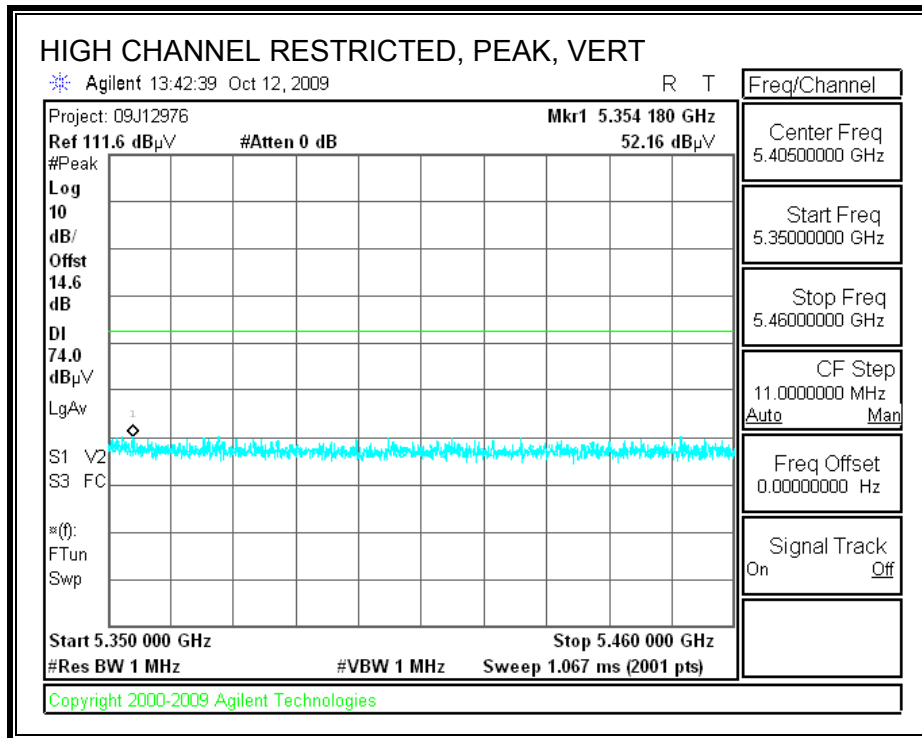


8.2.9. 802.11a MODE IN THE UPPER 5.3 GHz BAND_CHAIN A

RESTRICTED BANEDGE (HIGH CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

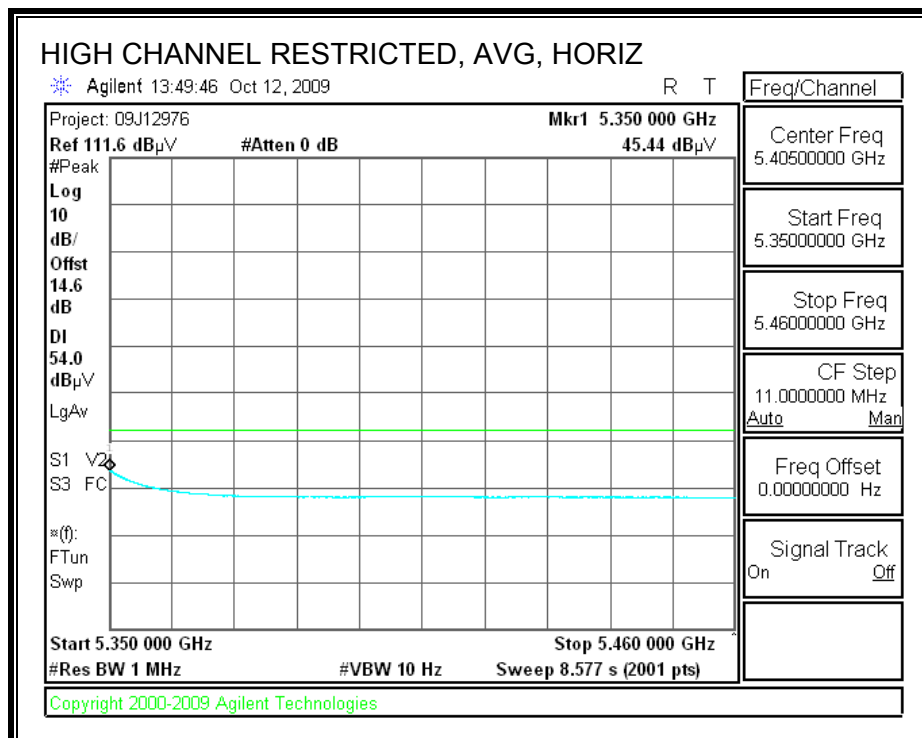
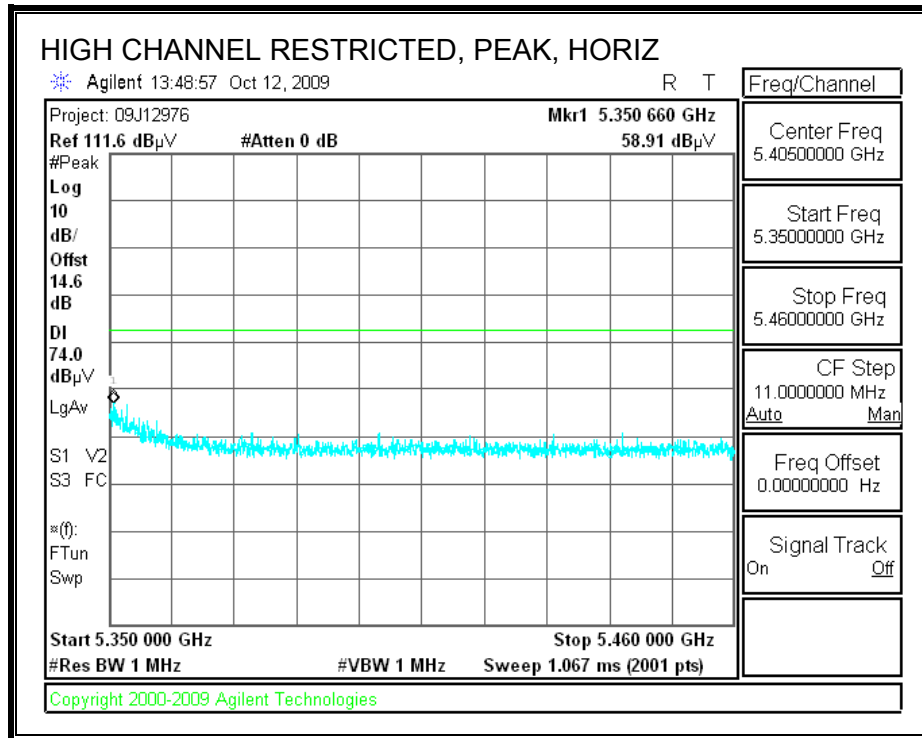


5.2 & 5.3 GHz BANDS - HARMONICS AND SPURIOUS EMISSIONS

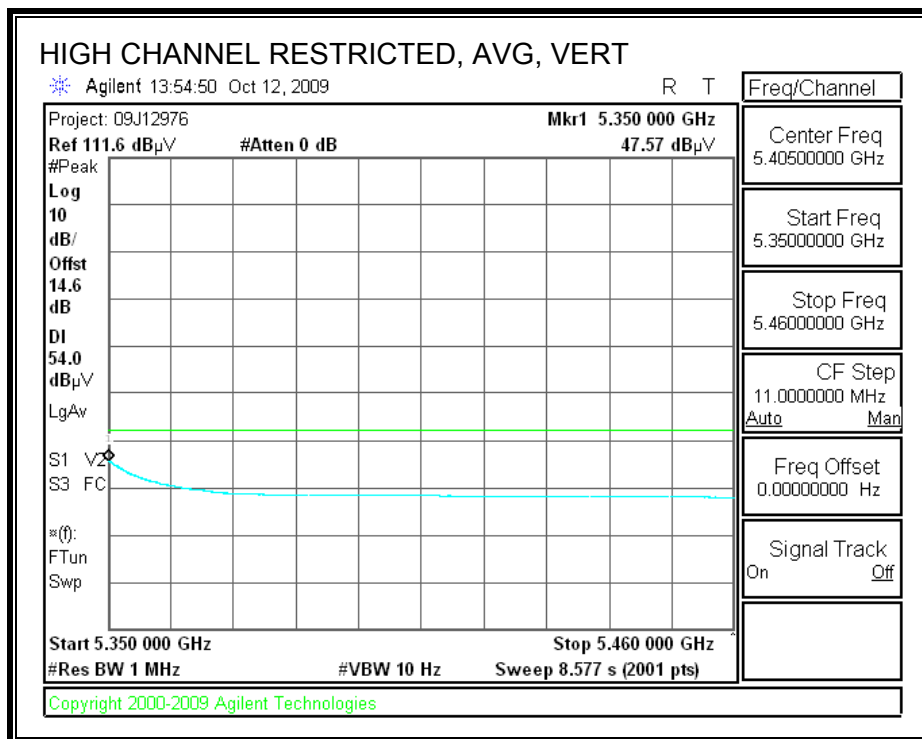
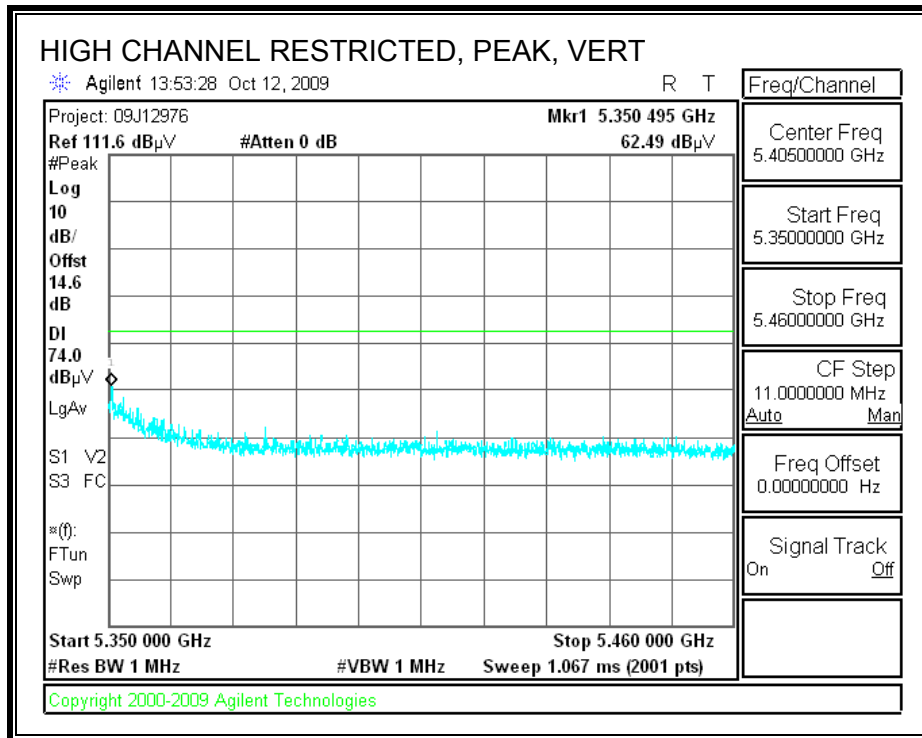
High Frequency Measurement															
Compliance Certification Services, Fremont 3m Chamber															
Test Engr:		Vien Tran													
Date:		10/13/09													
Project #:		09U12796													
Company:		Intel													
EUT Description:		Intel® Centrino® Advanced-N 6200 (Tested Inside Of Lenovo ThinkPad X200/X201 Tablet Series)													
EUT M/N:		622ANHMMW													
Test Target:		FCC Class B													
Mode Oper:		Tx 5.2 & 5.3GHz Bands_11a_Mid Channel_Chain A													
f	Measurement Frequency	Amp	Preamp Gain	Average Field Strength Limit											
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Peak Field Strength Limit											
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Margin vs. Average Limit											
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Margin vs. Peak Limit											
CL	Cable Loss	HPF	High Pass Filter												
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fitr dB	Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant. Pol. V/H	Det. P/A/QP	Ant.High cm	Table Angle Degree	Notes
11a 5260MHz Chain A															
15.780	3.0	39.0	38.5	11.3	-32.2	0.0	0.0	56.6	74.0	-17.4	V	P	99.0	73.0	
15.780	3.0	25.5	38.5	11.3	-32.2	0.0	0.0	43.1	54.0	-10.9	V	A	99.0	73.0	
15.780	3.0	37.2	38.5	11.3	-32.2	0.0	0.0	54.8	74.0	-19.2	H	P	100.0	155.0	
15.780	3.0	24.6	38.5	11.3	-32.2	0.0	0.0	42.2	54.0	-11.8	H	A	100.0	155.0	
Rev. 4.1.2.7															
Note: No other emissions were detected above the system noise floor.															

8.2.10. 802.11a MODE IN THE UPPER 5.3 GHz BAND_CHAIN B

RESTRICTED BANEDGE (HIGH CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

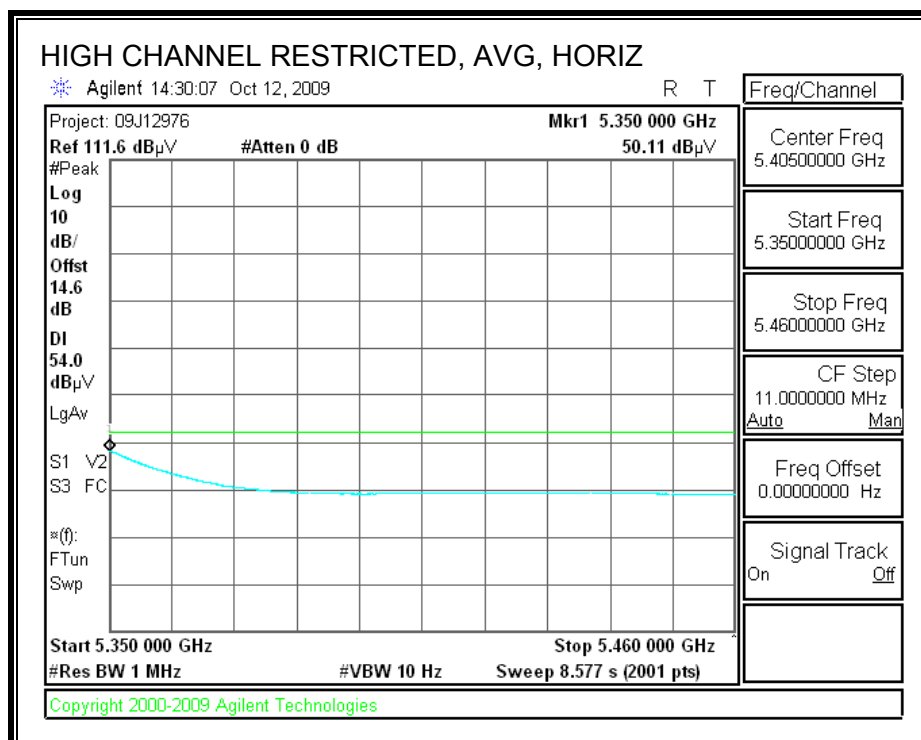
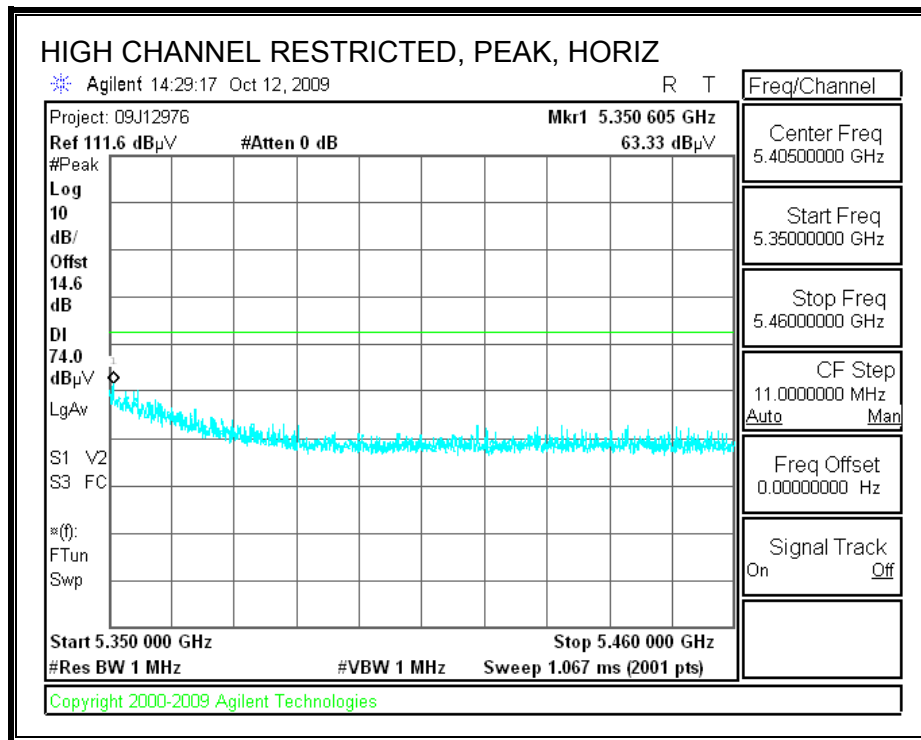


5.2 & 5.3 GHz BANDS - HARMONICS AND SPURIOUS EMISSIONS

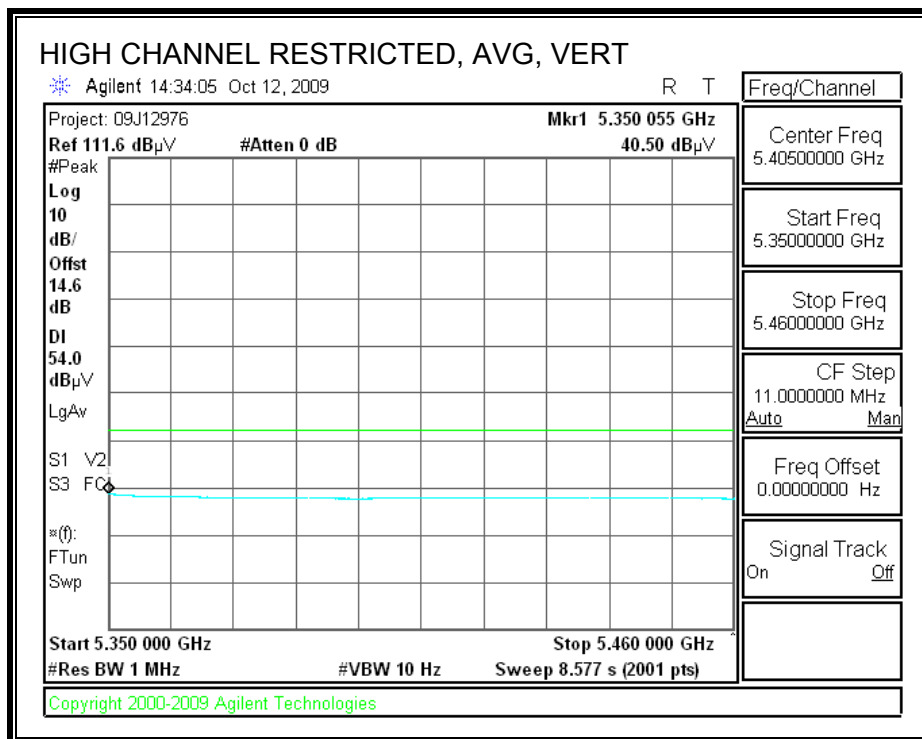
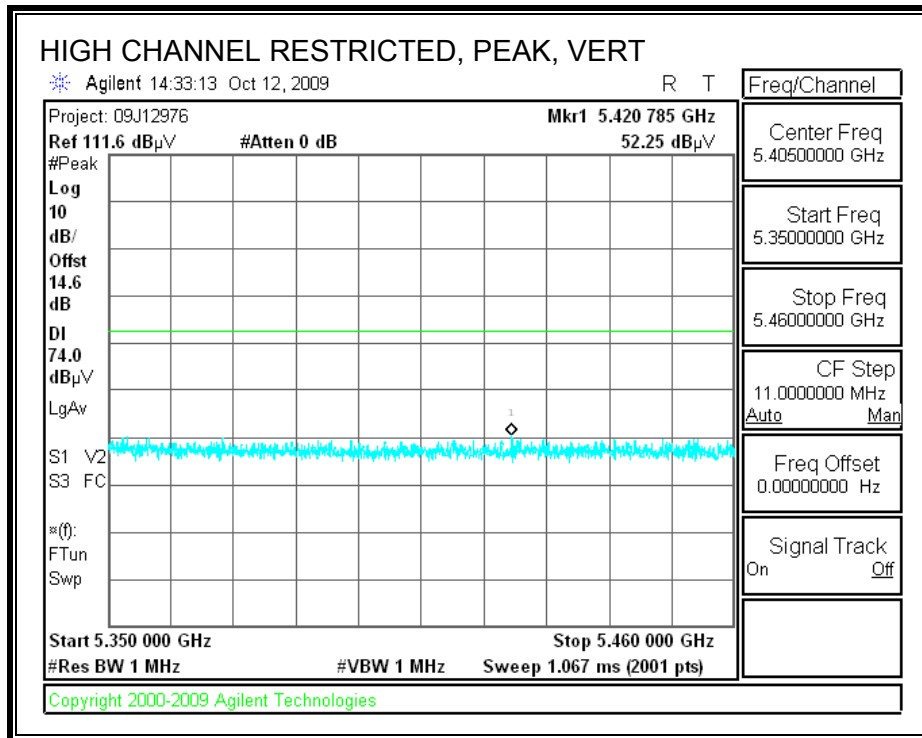
High Frequency Measurement															
Compliance Certification Services, Fremont 3m Chamber															
Test Engr:		Vien Tran													
Date:		10/13/09													
Project #:		09U12796													
Company:		Intel													
EUT Description:		Intel® Centrino® Advanced-N 6200 (Tested Inside Of Lenovo ThinkPad X200/X201 Tablet Series)													
EUT M/N:		622ANHMMW													
Test Target:		FCC Class B													
Mode Oper:		Tx 5.2 & 5.3GHz Bands_11a_Mid Channel_Chain B													
f	Measurement Frequency	Amp	Preamp Gain	Average Field Strength Limit											
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Peak Field Strength Limit											
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Margin vs. Average Limit											
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Margin vs. Peak Limit											
CL	Cable Loss	HPF	High Pass Filter												
f	Dist	Read	AF	CL	Amp	D Corr	Fitr	Corr.	Limit	Margin	Ant. Pol.	Det.	Ant.High	Table Angle	Notes
GHz	(m)	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dB	V/H	P/A/QP	cm	Degree	
11a 5260MHz Chain B Vert															
15.780	3.0	37.5	37.8	11.5	-32.2	0.0	0.0	54.6	74.0	-19.4	V	P	102.0	77.0	
15.780	3.0	25.6	37.8	11.5	-32.2	0.0	0.0	42.7	54.0	-11.3	V	A	102.0	77.0	
11a 5260MHz Chain B Hor															
15.780	3.0	35.7	37.8	11.5	-32.2	0.0	0.0	52.8	74.0	-21.2	H	P	111.0	33.0	
15.780	3.0	24.1	37.8	11.5	-32.2	0.0	0.0	41.2	54.0	-12.8	H	A	111.0	33.0	
Rev. 4.1.2.7															
Note: No other emissions were detected above the system noise floor.															

8.2.11. 802.11n HT20 MODE IN THE UPPER 5.3 GHz BAND_CHAIN A

RESTRICTED BANEDGE (HIGH CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

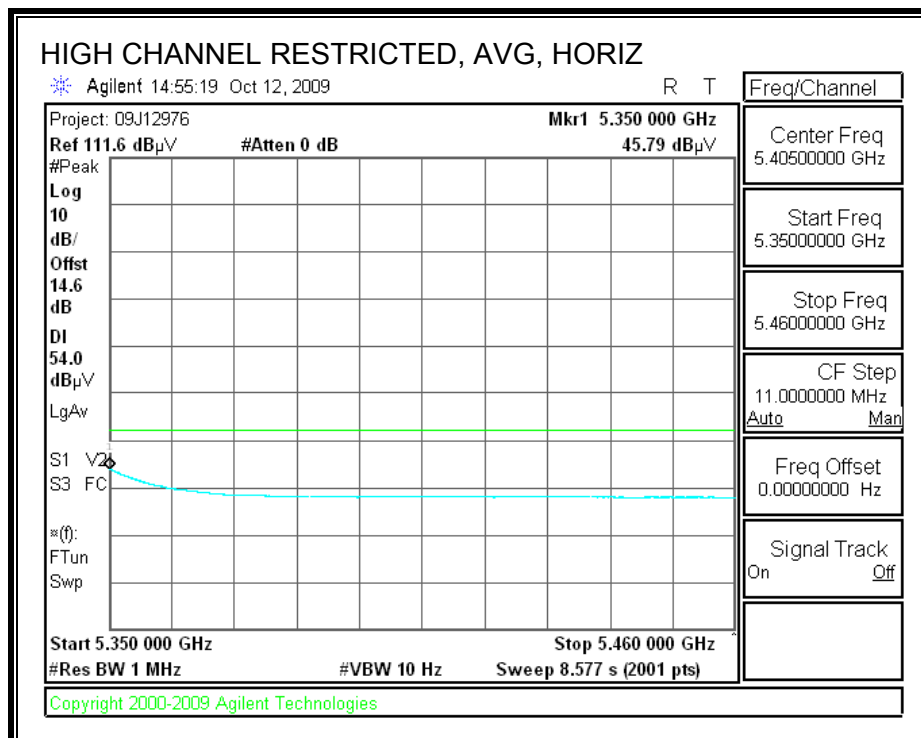
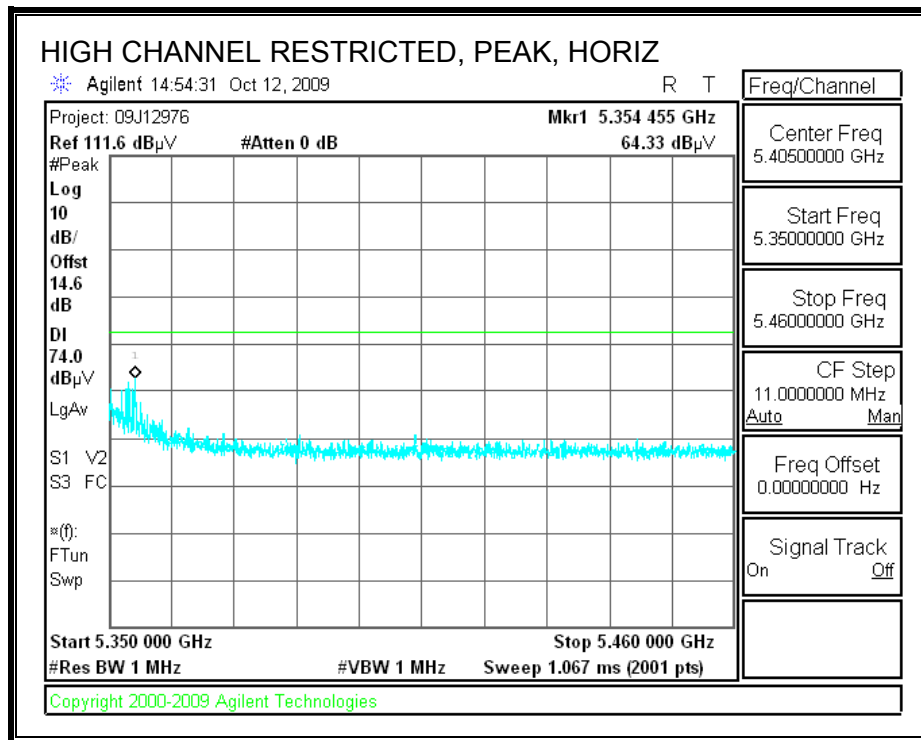


5.2 & 5.3 GHz BANDS - HARMONICS AND SPURIOUS EMISSIONS

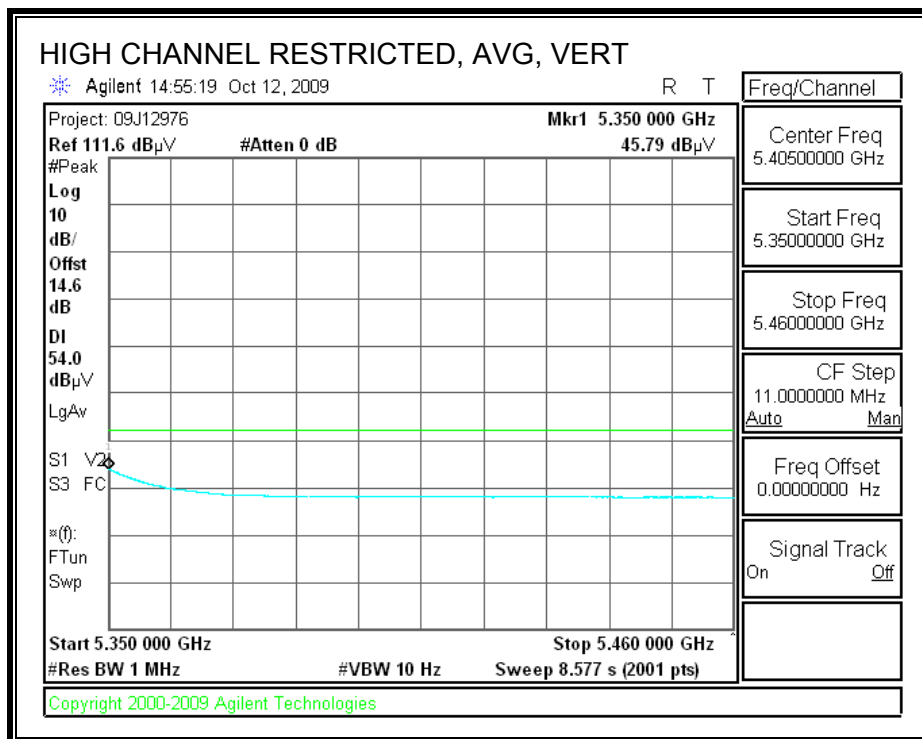
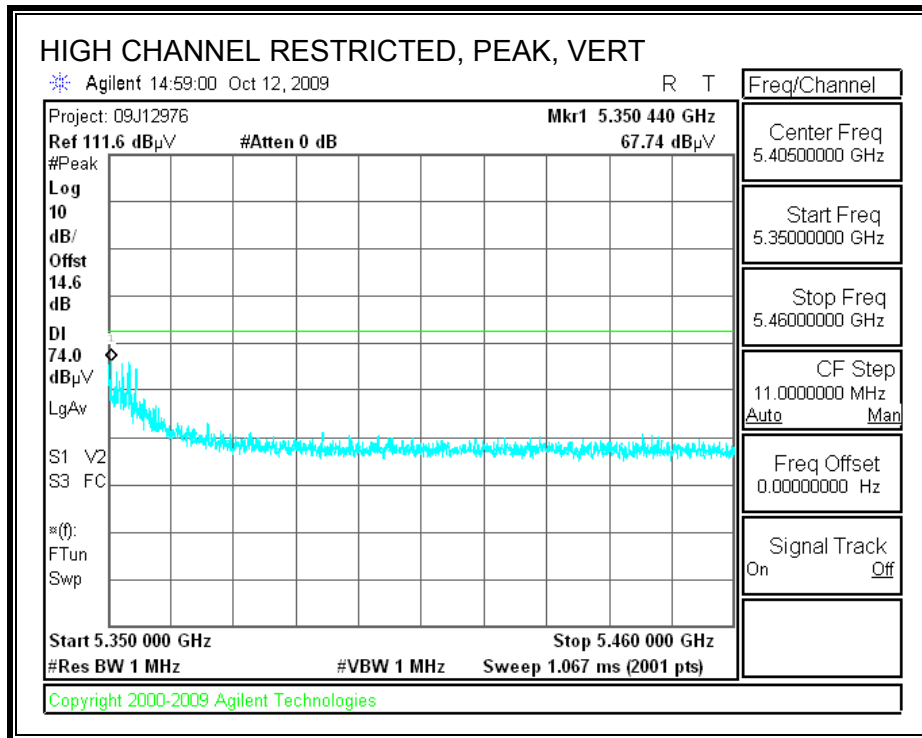
High Frequency Measurement															
Compliance Certification Services, Fremont 3m Chamber															
Test Engr:		Vien Tran													
Date:		10/13/09													
Project #:		09U12796													
Company:		Intel													
EUT Description:		Intel® Centrino® Advanced-N 6200 (Tested Inside Of Lenovo ThinkPad X200/X201 Tablet Series)													
EUT M/N:		622ANHMMW													
Test Target:		FCC Class B													
Mode Oper:		Tx 5.2 & 5.3GHz Bands_HT20_Mid Channel_Chain A													
f	Measurement Frequency	Amp	Preamp Gain	Average Field Strength Limit											
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Peak Field Strength Limit											
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Margin vs. Average Limit											
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Margin vs. Peak Limit											
CL	Cable Loss	HPF	High Pass Filter												
f	Dist	Read	AF	CL	Amp	D Corr	Fitr	Corr.	Limit	Margin	Ant. Pol.	Det.	Ant.High	Table Angle	Notes
GHz	(m)	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dB	V/H	P/A/QP	cm	Degree	
HT20 5260MHz Chain A Vert															
15.780	3.0	37.2	38.5	11.3	-32.2	0.0	0.0	54.9	74.0	-19.1	V	P	133.0	56.0	
15.780	3.0	23.6	38.5	11.3	-32.2	0.0	0.0	41.3	54.0	-12.7	V	A	122.0	56.0	
HT20 5260MHz Chain A Hor															
15.780	3.0	36.9	38.5	11.3	-32.2	0.0	0.0	54.5	74.0	-19.5	H	P	121.0	29.0	
15.780	3.0	24.7	38.5	11.3	-32.2	0.0	0.0	42.3	54.0	-11.7	H	A	121.0	29.0	
Rev. 4.1.2.7															
Note: No other emissions were detected above the system noise floor.															

8.2.12. 802.11n HT20 MODE IN THE UPPER 5.3 GHz BAND_CHAIN B

RESTRICTED BANEDGE (HIGH CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

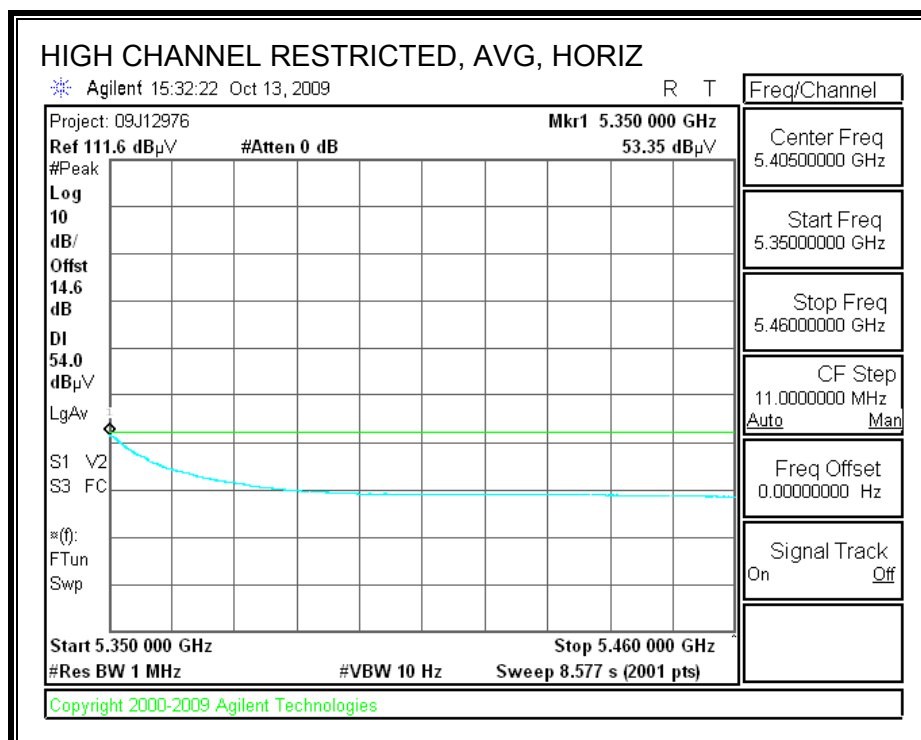
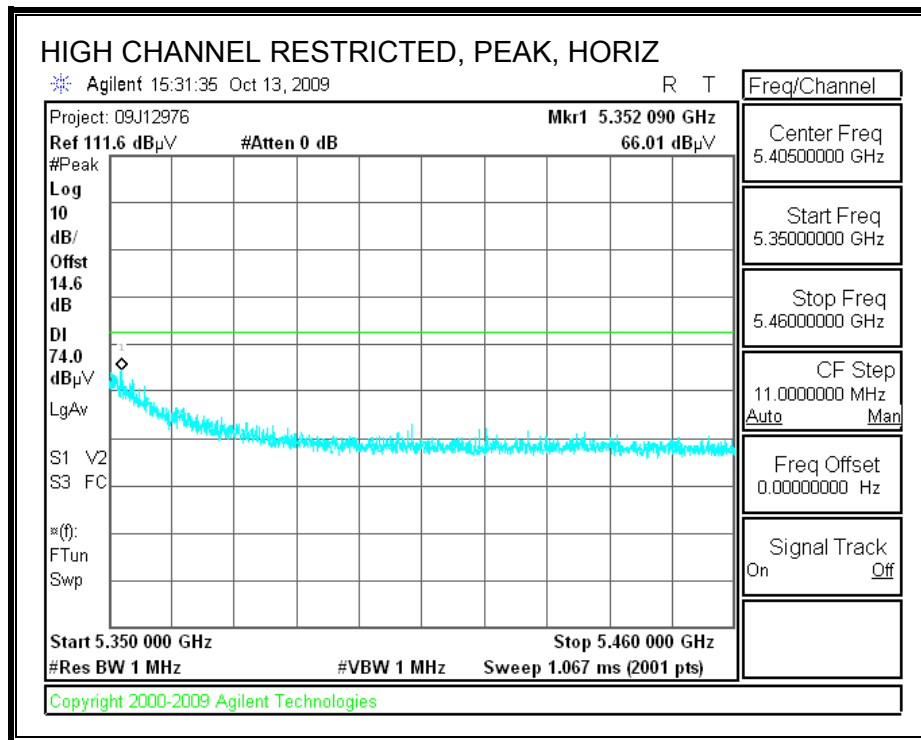


5.2 & 5.3 GHz BANDS - HARMONICS AND SPURIOUS EMISSIONS

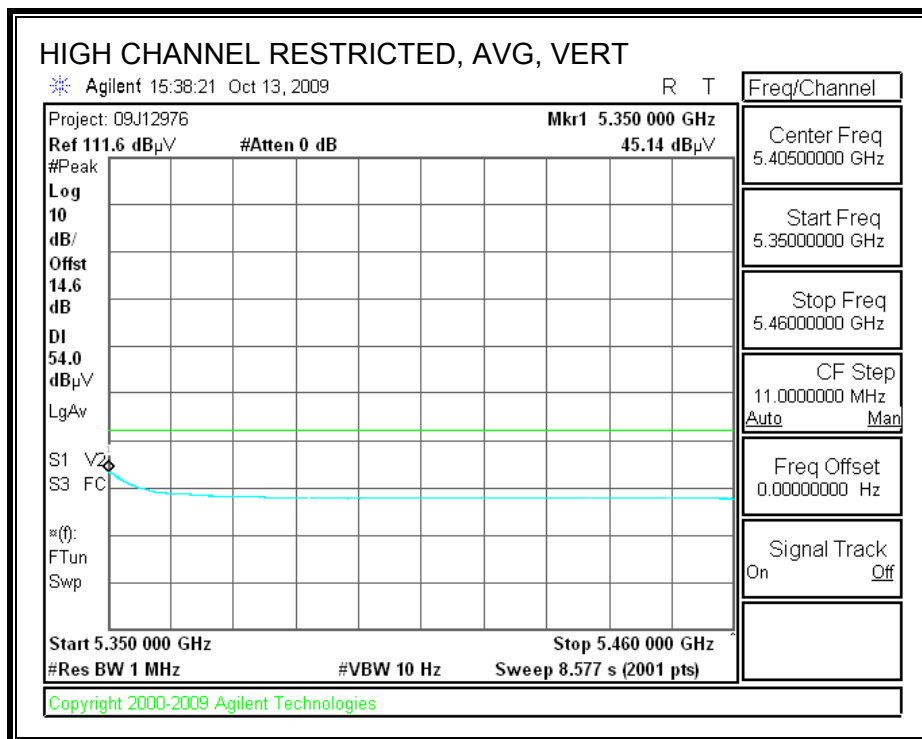
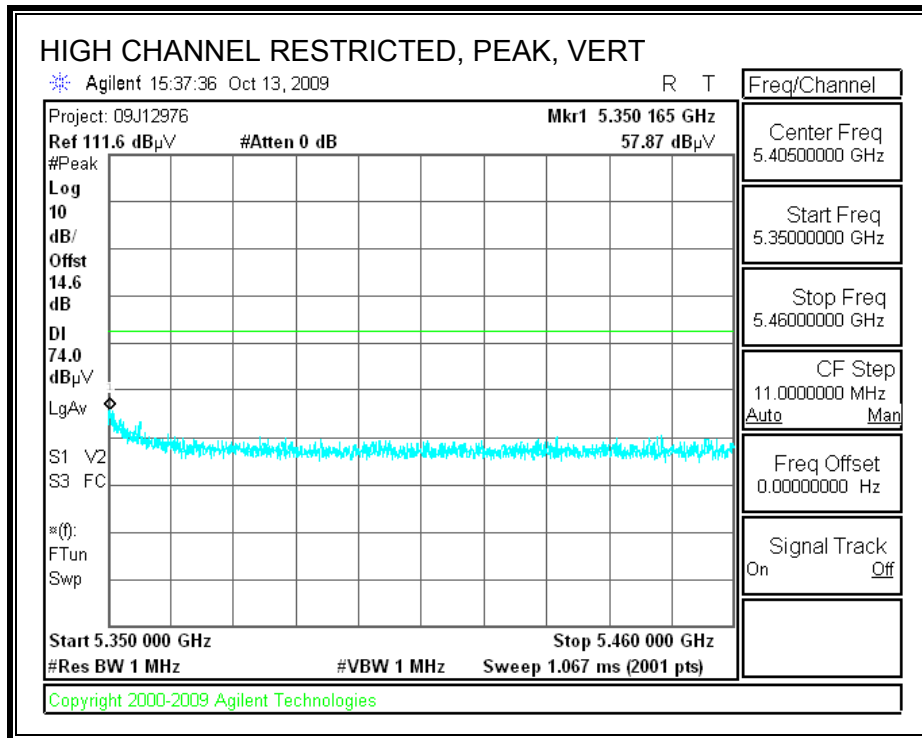
High Frequency Measurement															
Compliance Certification Services, Fremont 3m Chamber															
Test Engr:		Vien Tran													
Date:		10/13/09													
Project #:		09U12796													
Company:		Intel													
EUT Description:		Intel® Centrino® Advanced-N 6200 (Tested Inside Of Lenovo ThinkPad X200/X201 Tablet Series)													
EUT M/N:		622ANHMMW													
Test Target:		FCC Class B													
Mode Oper:		Tx 5.2 & 5.3GHz Bands_HT20_Mid Channel_Chain B													
f	Measurement Frequency	Amp	Preamp Gain	Average Field Strength Limit											
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Peak Field Strength Limit											
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Margin vs. Average Limit											
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Margin vs. Peak Limit											
CL	Cable Loss	HPF	High Pass Filter												
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fitr dB	Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant. Pol. V/H	Det. P/A/QP	Ant.High cm	Table Angle Degree	Notes
HT20 5260MHz Chain B Vert															
15.780	3.0	38.9	37.8	11.5	-32.2	0.0	0.0	56.0	74.0	-18.0	V	P	101.0	48.0	
15.780	3.0	26.2	37.8	11.5	-32.2	0.0	0.0	43.3	54.0	-10.7	V	A	101.0	48.0	
HT20 5260MHz Chain B Hor															
15.780	3.0	40.6	37.8	11.5	-32.2	0.0	0.0	57.7	74.0	-16.3	H	P	107.0	28.0	
15.780	3.0	27.0	37.8	11.5	-32.2	0.0	0.0	44.1	54.0	-9.9	H	A	107.0	28.0	
Rev. 4.1.2.7															
Note: No other emissions were detected above the system noise floor.															

8.2.13. 802.11n HT40 MODE IN THE UPPER 5.3 GHz BAND_CHAIN A

RESTRICTED BANEDGE (HIGH CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

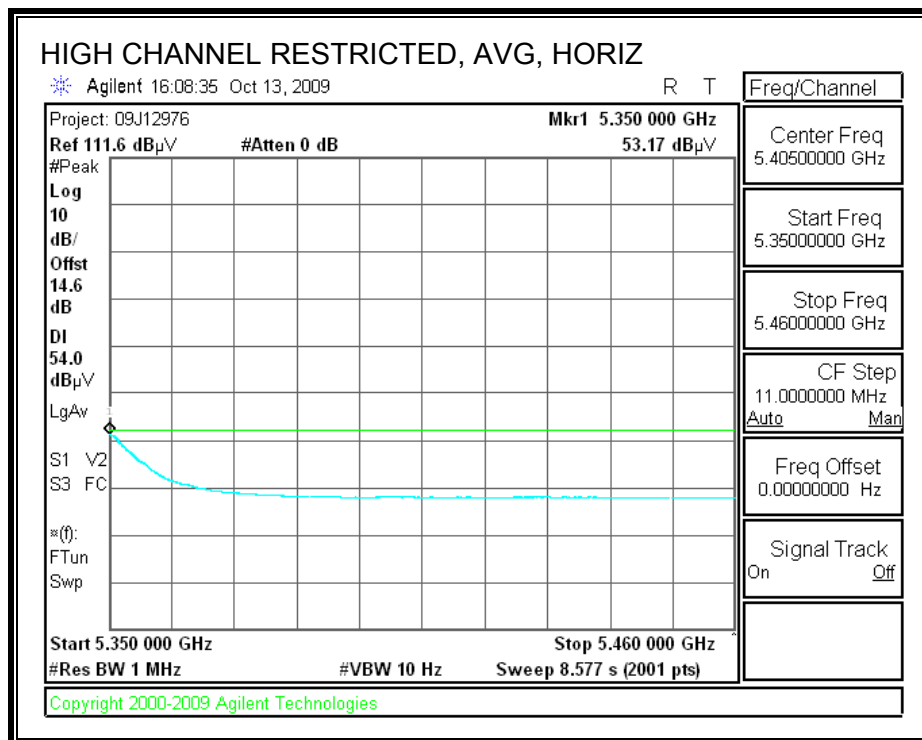
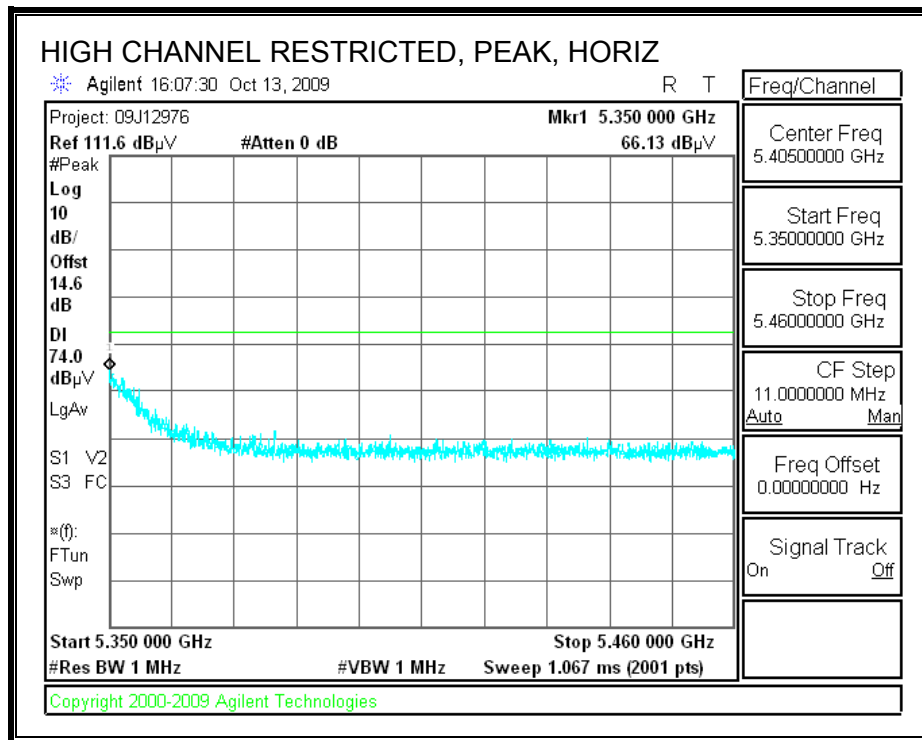


5.2 & 5.3 GHz BANDS - HARMONICS AND SPURIOUS EMISSIONS

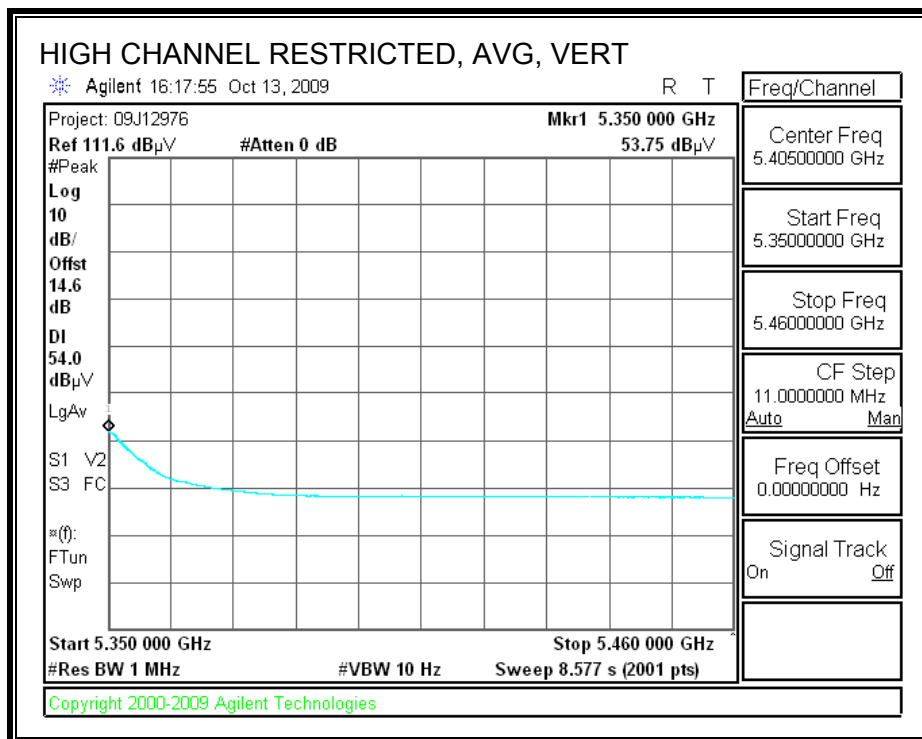
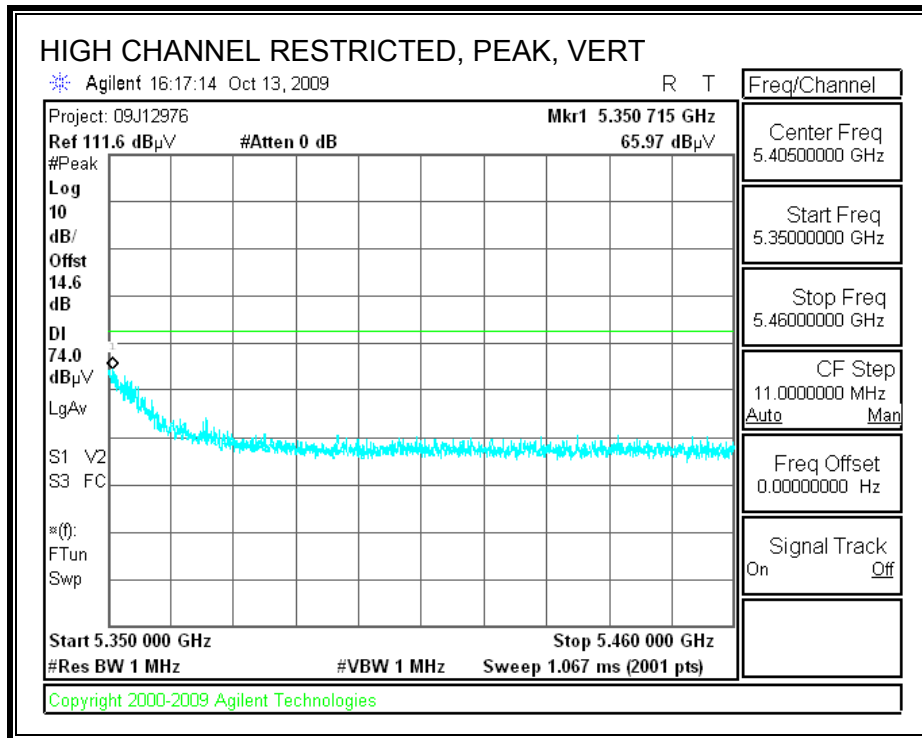
High Frequency Measurement															
Compliance Certification Services, Fremont 3m Chamber															
Test Engr:		Vien Tran													
Date:		10/13/09													
Project #:		09U12796													
Company:		Intel													
EUT Description:		Intel® Centrino® Advanced-N 6200 (Tested Inside Of Lenovo ThinkPad X200/X201 Tablet Series)													
EUT M/N:		622ANHMMW													
Test Target:		FCC Class B													
Mode Oper:		Tx 5.2 & 5.3GHz Bands_HT40_High Channel_Chain A													
f	Measurement Frequency	Amp	Preamp Gain	Average Field Strength Limit											
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Peak Field Strength Limit											
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Margin vs. Average Limit											
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Margin vs. Peak Limit											
CL	Cable Loss	HPF	High Pass Filter												
f	Dist	Read	AF	CL	Amp	D Corr	Fitr	Corr.	Limit	Margin	Ant. Pol.	Det.	Ant.High	Table Angle	Notes
GHz	(m)	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dB	V/H	P/A/QP	cm	Degree	
HT40_5310MHz Chain A Vert															
10.620	3.0	33.8	37.6	9.1	-32.6	0.0	0.0	47.8	74.0	-26.2	V	P	100.0	126.0	
10.620	3.0	21.1	37.6	9.1	-32.6	0.0	0.0	35.2	54.0	-18.8	V	A	100.0	126.0	
15.930	3.0	35.9	37.4	11.5	-32.1	0.0	0.0	52.7	74.0	-21.3	V	P	100.0	51.0	
15.930	3.0	23.4	37.4	11.5	-32.1	0.0	0.0	40.2	54.0	-13.8	V	A	100.0	51.0	
HT40_5310MHz Chain A Hor															
10.620	3.0	32.9	37.6	9.1	-32.6	0.0	0.0	46.9	74.0	-27.1	H	P	100.0	163.0	
10.620	3.0	20.9	37.6	9.1	-32.6	0.0	0.0	35.0	54.0	-19.0	H	A	100.0	163.0	
15.930	3.0	35.9	37.4	11.5	-32.1	0.0	0.0	52.7	74.0	-21.3	H	P	100.0	19.0	
15.930	3.0	23.6	37.4	11.5	-32.1	0.0	0.0	40.3	54.0	-13.7	H	A	100.0	19.0	
Rev. 4.1.2.7															
Note: No other emissions were detected above the system noise floor.															

8.2.14. 802.11n HT40 MODE IN THE UPPER 5.3 GHz BAND_CHAIN B

RESTRICTED BANEDGE (HIGH CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

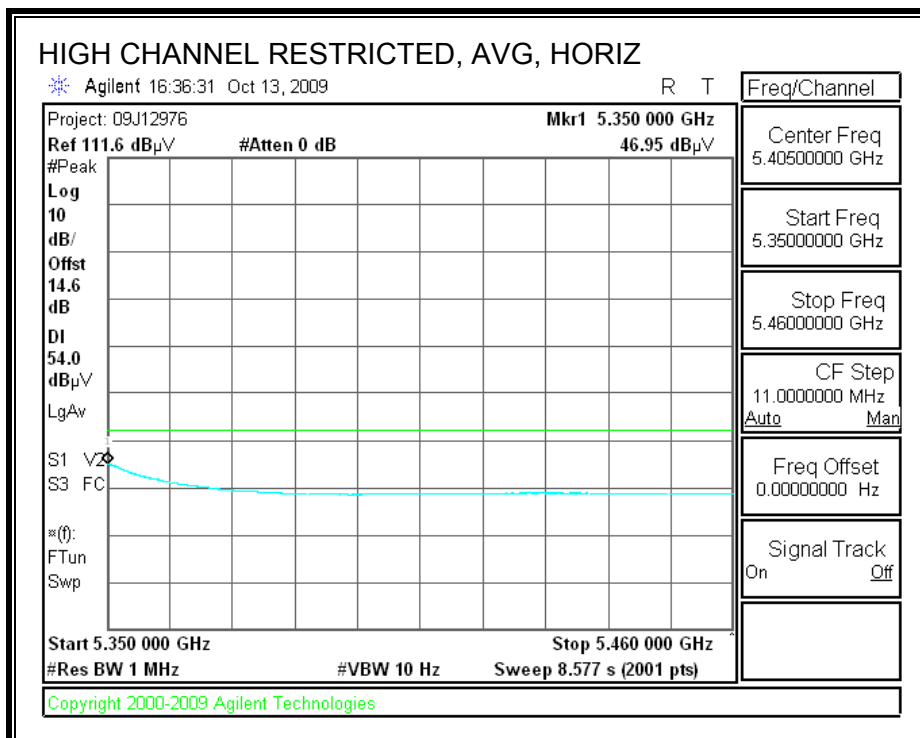
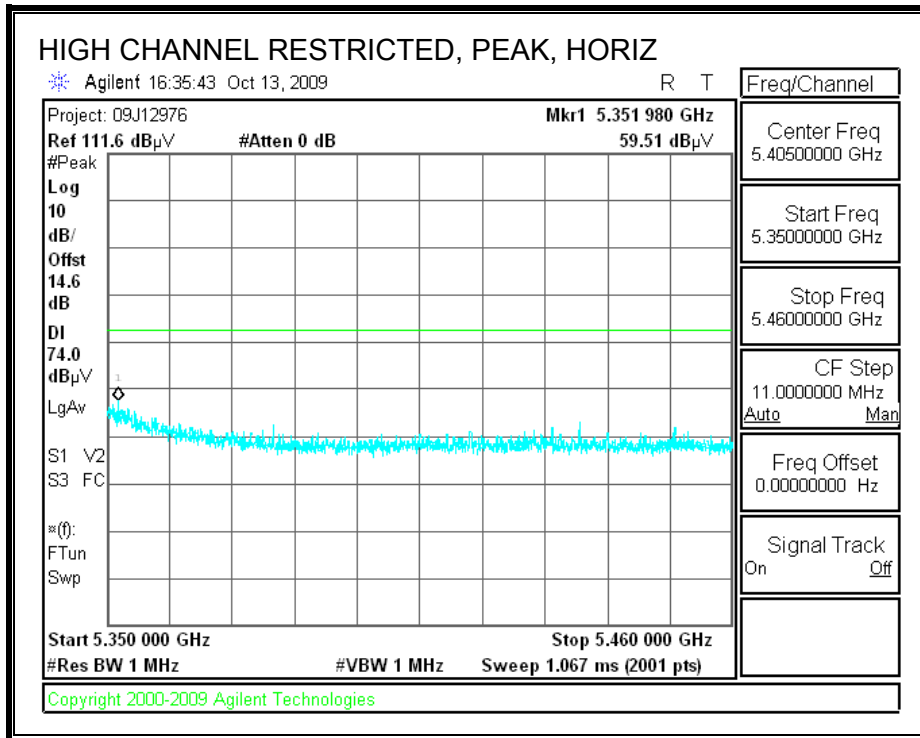


5.2 & 5.3 GHz BANDS - HARMONICS AND SPURIOUS EMISSIONS

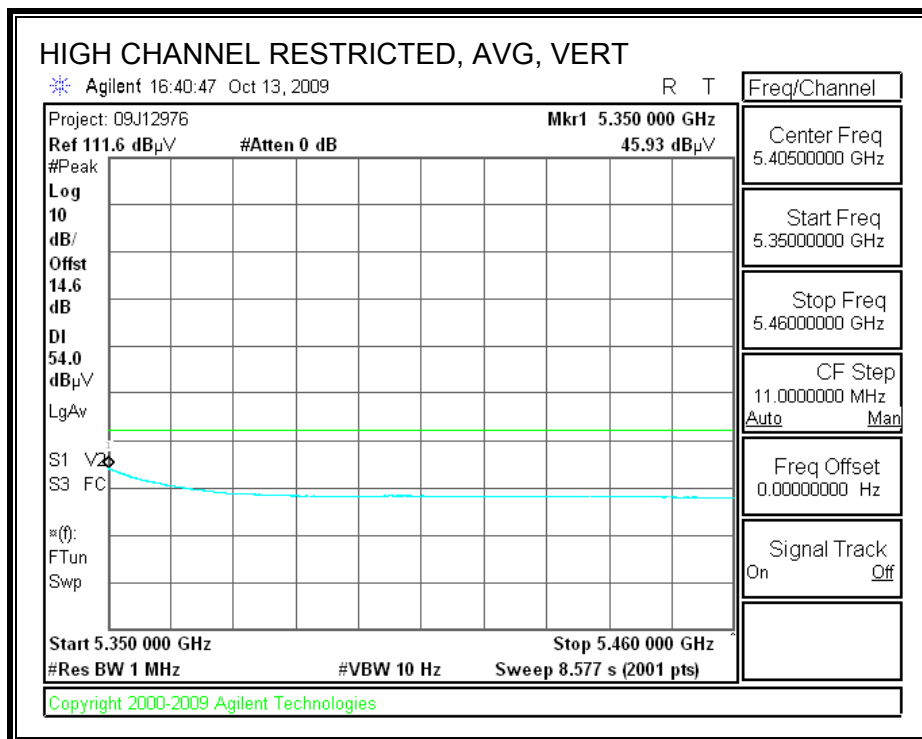
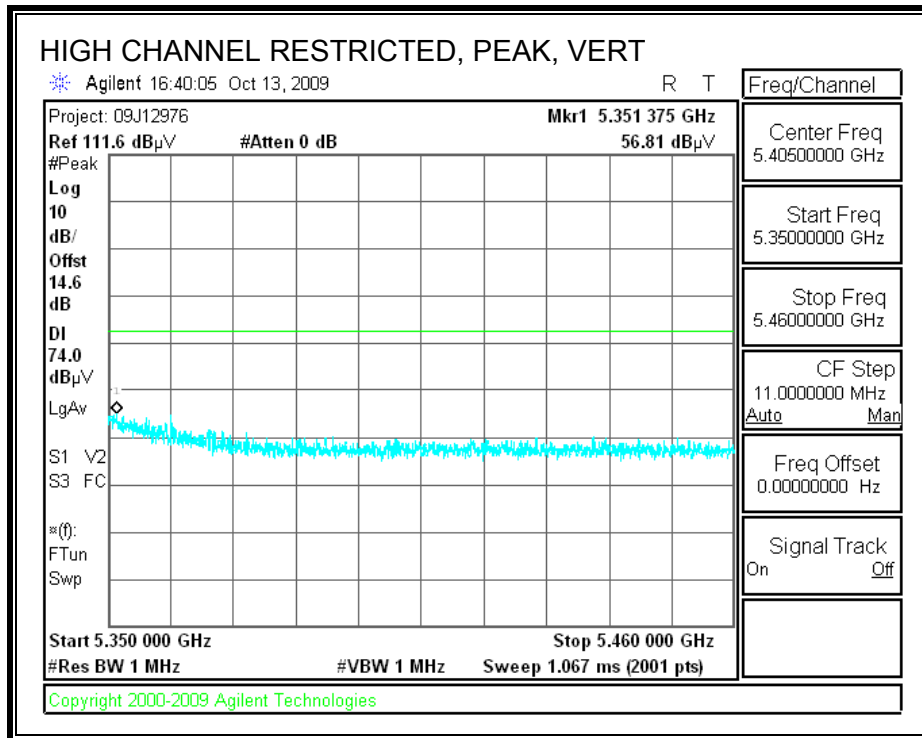
High Frequency Measurement															
Compliance Certification Services, Fremont 3m Chamber															
Test Engr:		Vien Tran													
Date:		10/13/09													
Project #:		09U12796													
Company:		Intel													
EUT Description:		Intel® Centrino® Advanced-N 6200 (Tested Inside Of Lenovo ThinkPad X200/X201 Tablet Series)													
EUT M/N:		622ANHMW													
Test Target:		FCC Class B													
Mode Oper:		Tx 5.2 & 5.3GHz Bands_HT40_High Channel_Chain B													
f	Measurement Frequency	Amp	Preamp Gain	Average Field Strength Limit											
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Peak Field Strength Limit											
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Margin vs. Average Limit											
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Margin vs. Peak Limit											
CL	Cable Loss	HPF	High Pass Filter												
f	Dist	Read	AF	CL	Amp	D Corr	Fitr	Corr.	Limit	Margin	Ant. Pol.	Det.	Ant.High	Table Angle	Notes
GHz	(m)	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dB	V/H	P/A/QP	cm	Degree	
HT40_5310MHz Chain A Vert															
10.620	3.0	35.1	37.6	9.1	-32.6	0.0	0.0	49.1	74.0	-24.9	V	P	101.0	128.0	
10.620	3.0	22.5	37.6	9.1	-32.6	0.0	0.0	36.5	54.0	-17.5	V	A	101.0	128.0	
15.930	3.0	37.3	37.4	11.5	-32.1	0.0	0.0	54.0	74.0	-20.0	V	P	101.0	49.0	
15.930	3.0	24.8	37.4	11.5	-32.1	0.0	0.0	41.5	54.0	-12.5	V	A	101.0	49.0	
HT40_5310MHz Chain A Hor															
10.620	3.0	34.4	37.6	9.1	-32.6	0.0	0.0	48.4	74.0	-25.6	H	P	101.0	163.0	
10.620	3.0	22.4	37.6	9.1	-32.6	0.0	0.0	36.4	54.0	-17.6	H	A	101.0	163.0	
15.930	3.0	37.4	37.4	11.5	-32.1	0.0	0.0	54.1	74.0	-19.9	H	P	101.0	19.0	
15.930	3.0	25.0	37.4	11.5	-32.1	0.0	0.0	41.8	54.0	-12.2	H	A	101.0	19.0	
Rev. 4.1.2.7															
Note: No other emissions were detected above the system noise floor.															

8.2.15. 802.11n HT20 MODE IN THE UPPER 5.3 GHz BAND_CHAIN A+B

RESTRICTED BANEDGE (HIGH CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

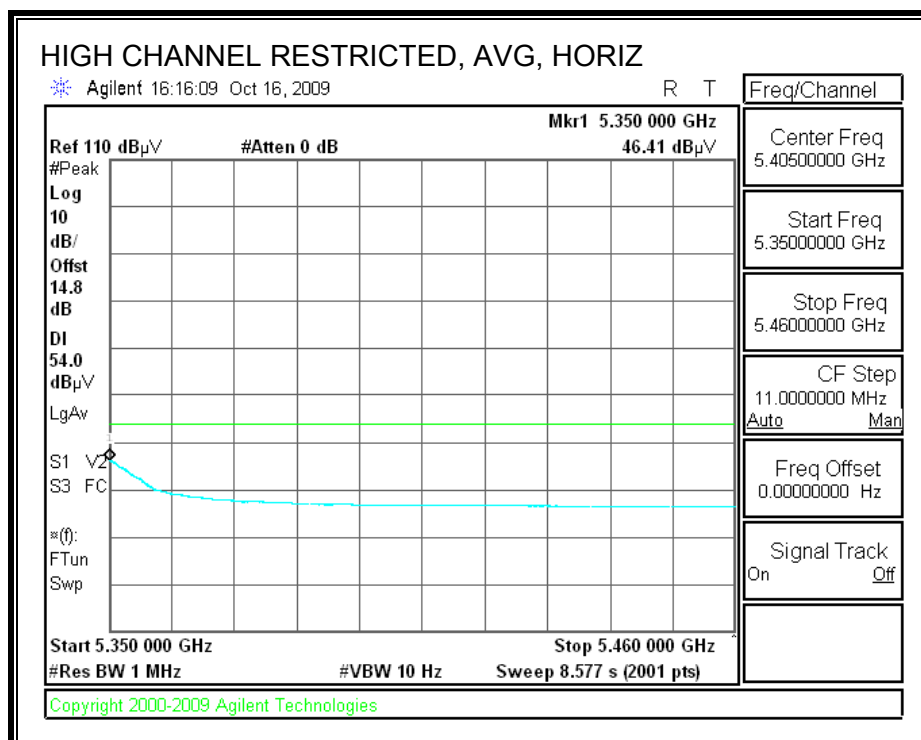
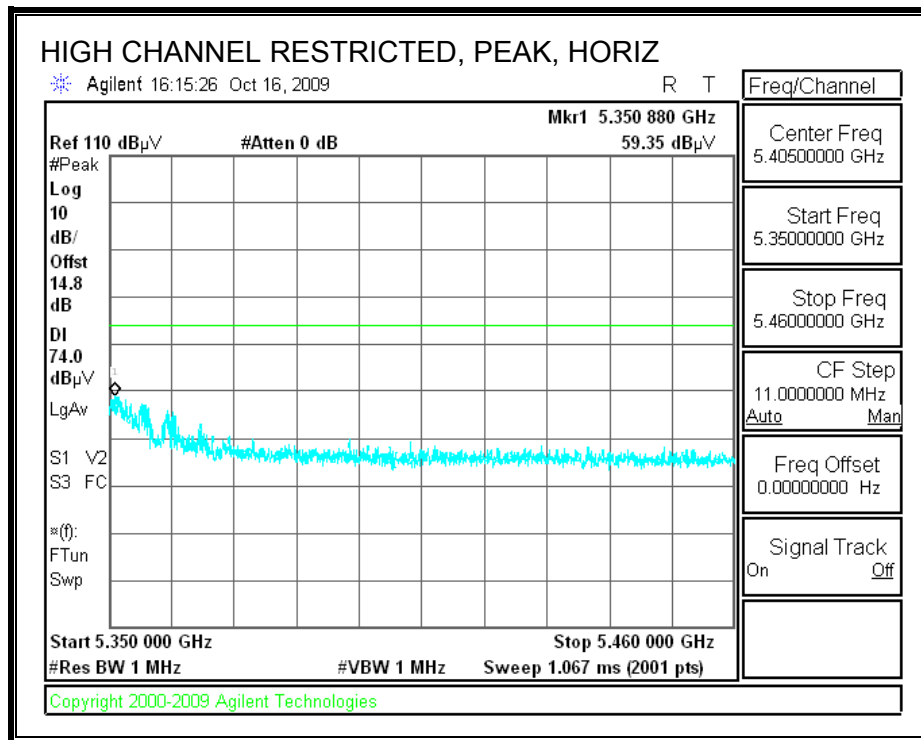


5.2 & 5.3 GHz BANDS - HARMONICS AND SPURIOUS EMISSIONS

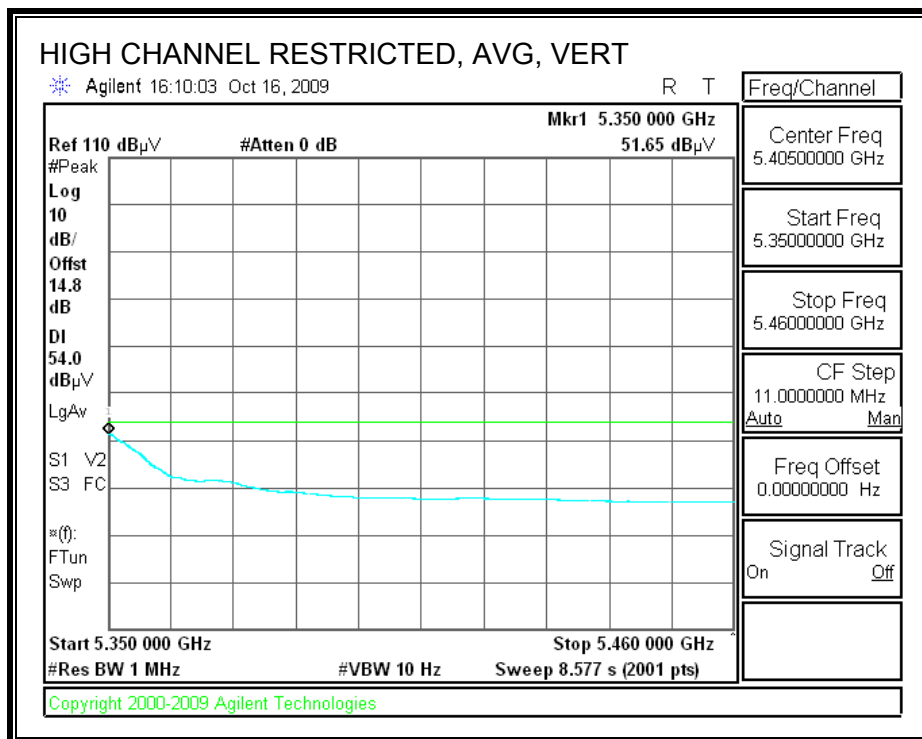
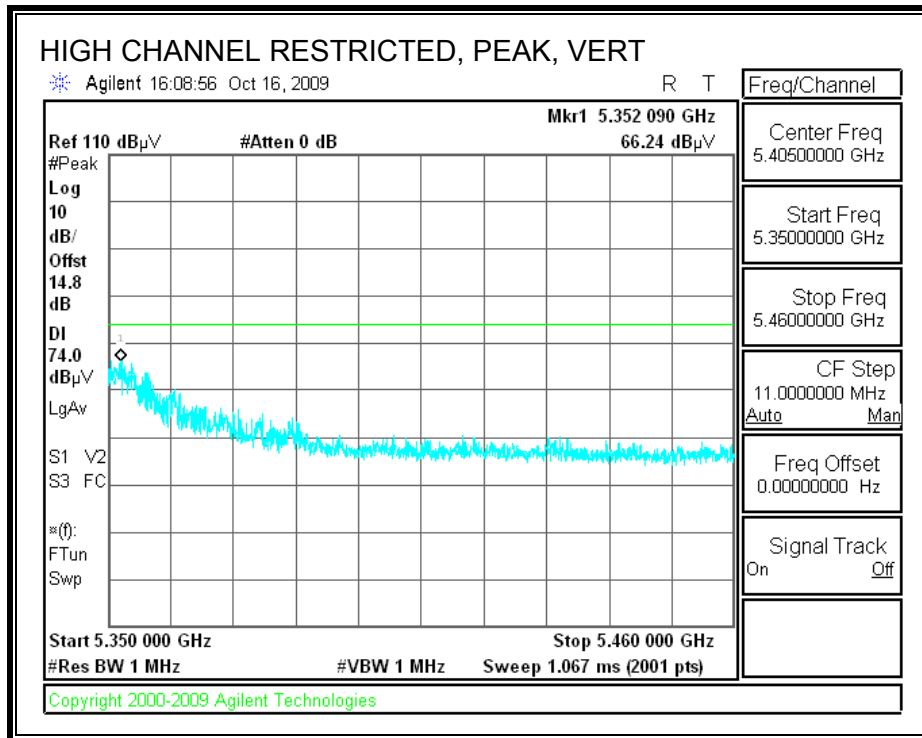
High Frequency Measurement															
Compliance Certification Services, Fremont 3m Chamber															
Test Engr:		Vien Tran													
Date:		10/13/09													
Project #:		09U12796													
Company:		Intel													
EUT Description:		Intel® Centrino® Advanced-N 6200 (Tested Inside Of Lenovo ThinkPad X200/X201 Tablet Series)													
EUT M/N:		622ANHMW													
Test Target:		FCC Class B													
Mode Oper:		Tx 5.2 & 5.3GHz Bands_HT20_Mid Channel_Chain AB													
f	Measurement Frequency	Amp	Preamp Gain	Average Field Strength Limit											
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Peak Field Strength Limit											
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Margin vs. Average Limit											
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Margin vs. Peak Limit											
CL	Cable Loss	HPF	High Pass Filter												
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fitr dB	Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant. Pol. V/H	Det. P/A/QP	Ant.High cm	Table Angle Degree	Notes
HT20 5260MHz Chain B Vert															
15.780	3.0	33.9	37.8	11.5	-32.2	0.0	0.0	51.0	74.0	-23.0	V	P	101.0	46.0	
15.780	3.0	21.8	37.8	11.5	-32.2	0.0	0.0	38.9	54.0	-15.1	V	A	101.0	46.0	
HT20 5260MHz Chain B Hor															
15.780	3.0	34.0	37.8	11.5	-32.2	0.0	0.0	51.1	74.0	-22.9	H	P	99.0	5.0	
15.780	3.0	22.1	37.8	11.5	-32.2	0.0	0.0	39.2	54.0	-14.8	H	A	99.0	5.0	
Rev. 4.1.2.7															
Note: No other emissions were detected above the system noise floor.															

8.2.16. 802.11n HT40 MODE IN THE UPPER 5.3 GHz BAND_CHAIN A+B

RESTRICTED BANEDGE (HIGH CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

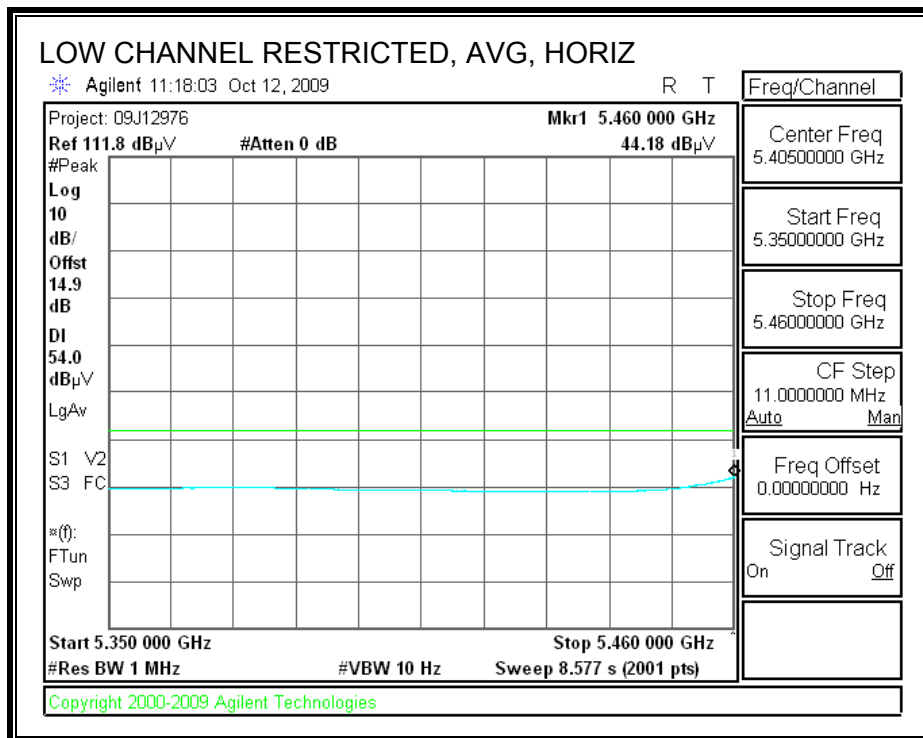
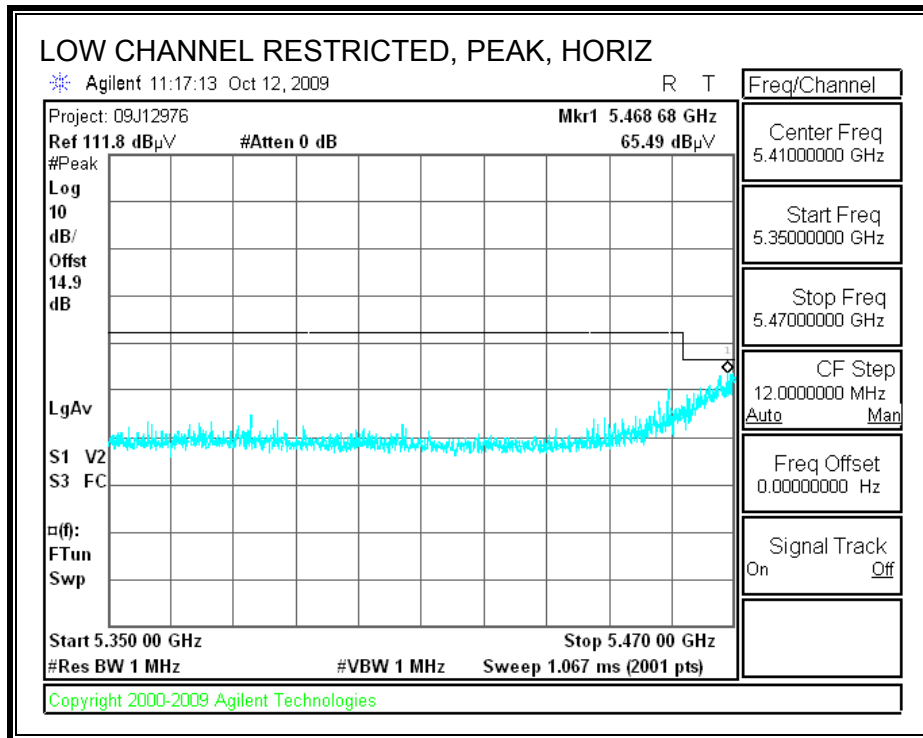


5.2 & 5.3 GHz BANDS - HARMONICS AND SPURIOUS EMISSIONS

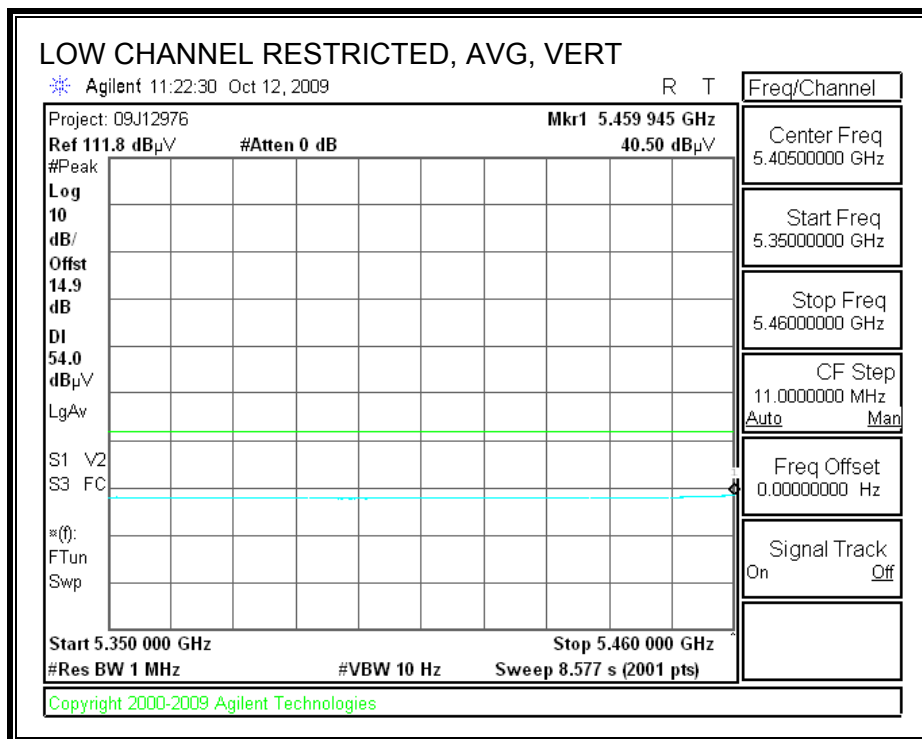
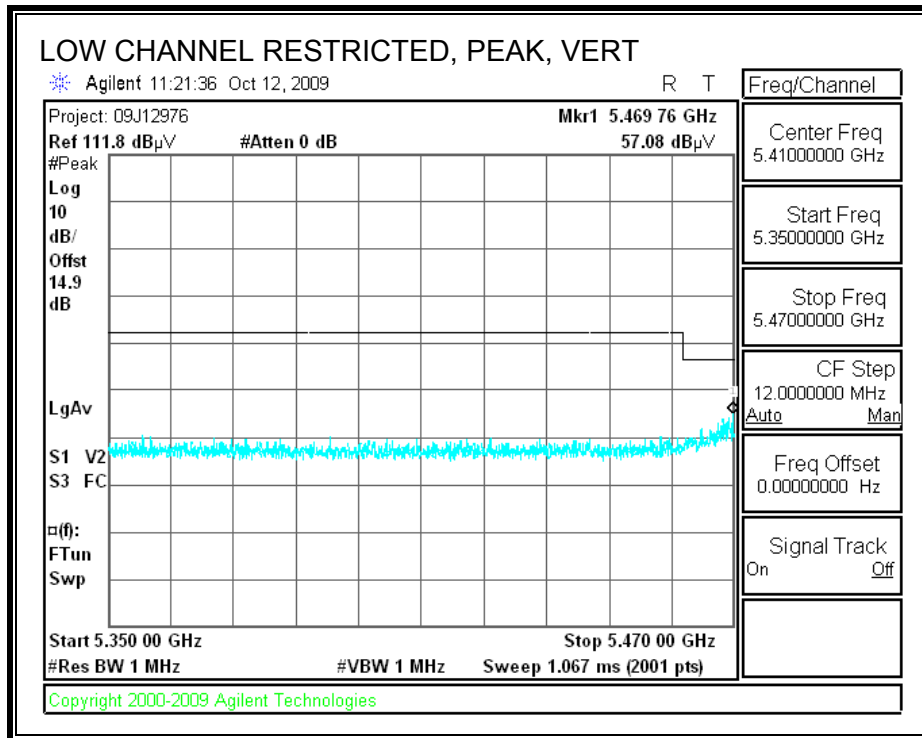
High Frequency Measurement															
Compliance Certification Services, Fremont 3m Chamber															
Test Engr:		Vien Tran													
Date:		10/13/09													
Project #:		09U12796													
Company:		Intel													
EUT Description:		Intel® Centrino® Advanced-N 6200 (Tested Inside Of Lenovo ThinkPad X200/X201 Tablet Series)													
EUT M/N:		622ANHMMW													
Test Target:		FCC Class B													
Mode Oper:		Tx 5.2 & 5.3GHz Bands_HT40_Low Channel_Chain AB													
f	Measurement Frequency	Amp	Preamp Gain	Average Field Strength Limit											
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Peak Field Strength Limit											
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Margin vs. Average Limit											
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Margin vs. Peak Limit											
CL	Cable Loss	HPF	High Pass Filter												
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fitr dB	Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant. Pol V/H	Det. P/A/QP	Ant.High cm	Table Angle Degree	Notes
HT40 5190MHz Chain AB Vert															
15.570	3.0	33.2	38.4	11.4	-32.2	0.0	0.0	50.8	74.0	-23.3	V	P	100.0	55.0	
15.570	3.0	21.3	38.4	11.4	-32.2	0.0	0.0	38.9	54.0	-15.1	V	A	100.0	55.0	
HT40 5190MHz Chain AB Hor															
15.570	3.0	34.0	38.4	11.4	-32.2	0.0	0.0	51.5	74.0	-22.5	H	P	103.0	21.0	
15.570	3.0	22.0	38.4	11.4	-32.2	0.0	0.0	39.5	54.0	-14.5	H	A	103.0	21.0	
Rev. 4.1.2.7															
Note: No other emissions were detected above the system noise floor.															

8.2.17. 802.11a MODE IN THE 5.6 GHz BAND_CHAIN A

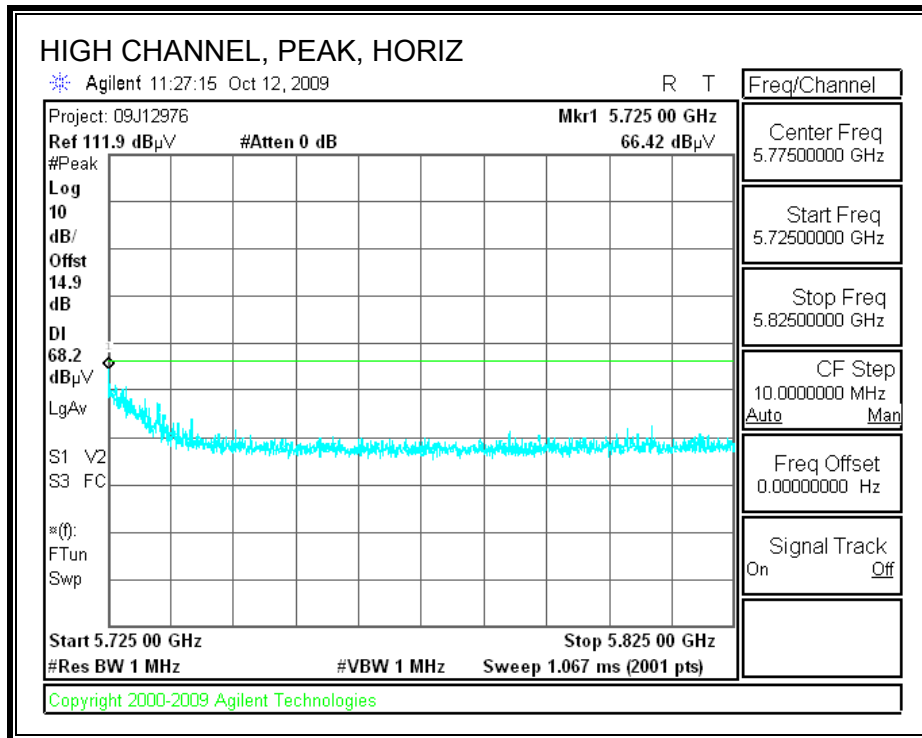
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



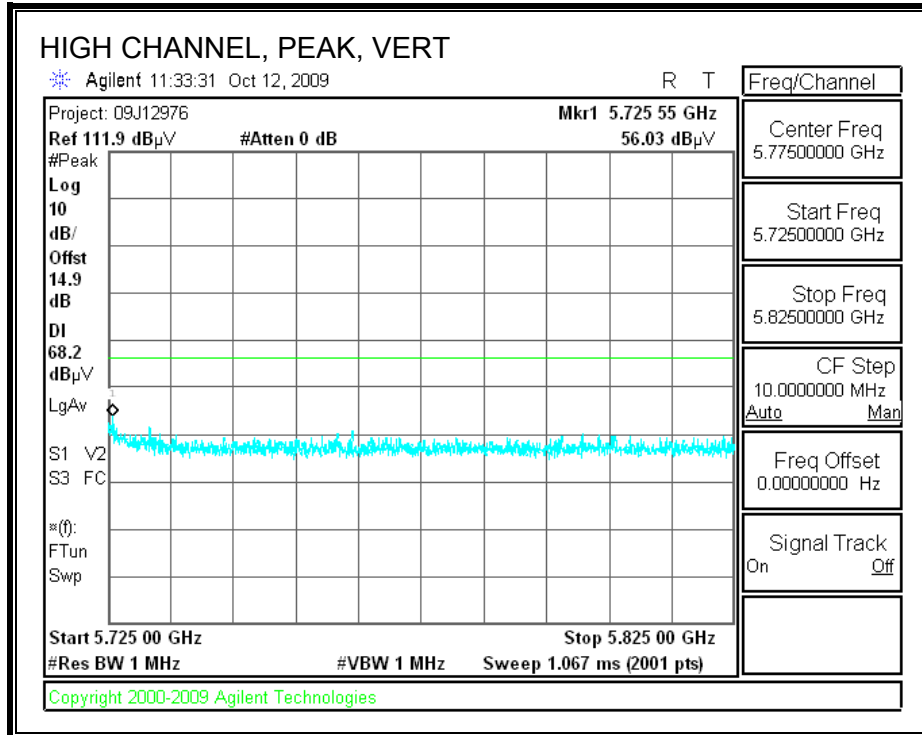
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)

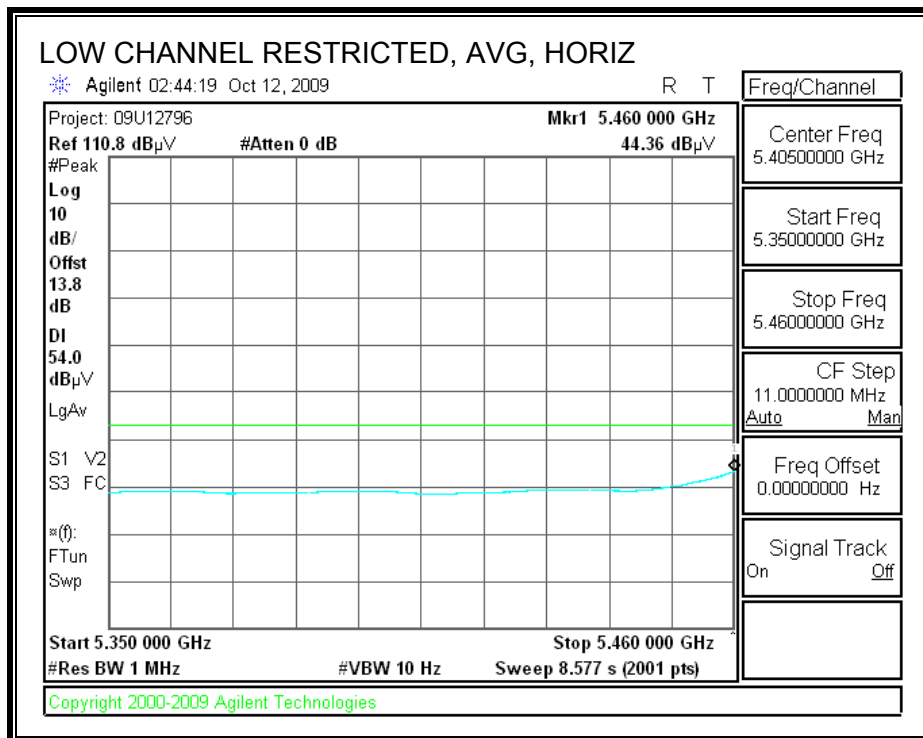
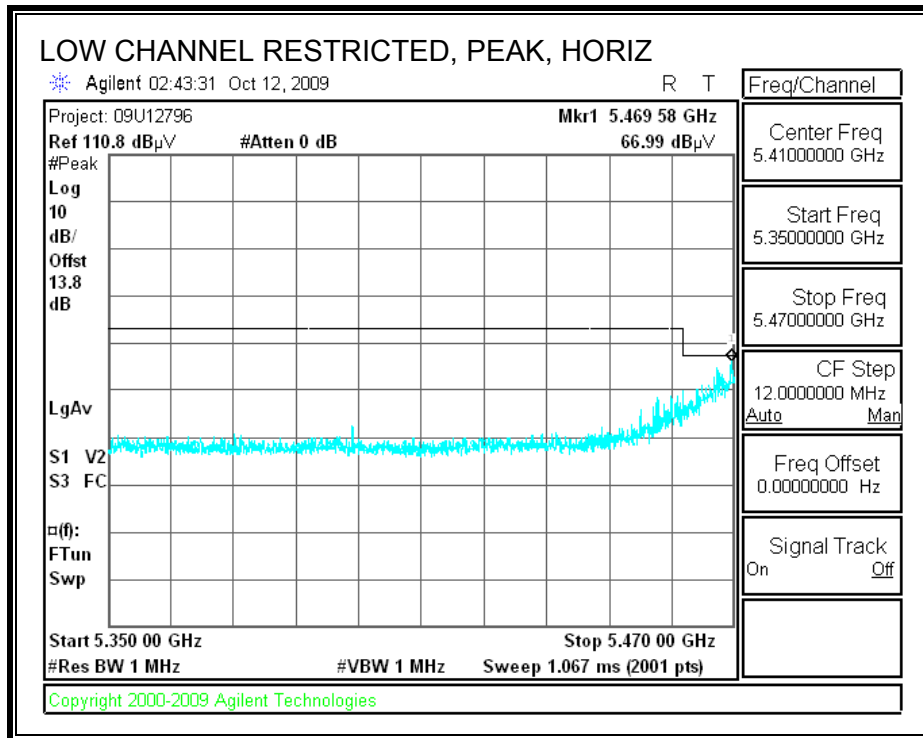


HARMONICS AND SPURIOUS EMISSIONS

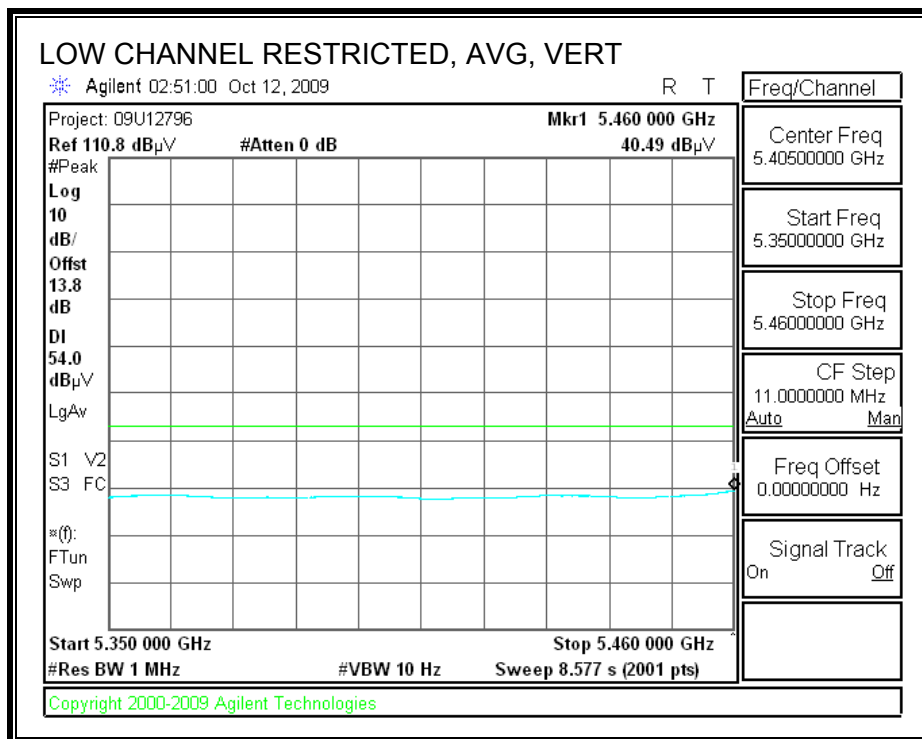
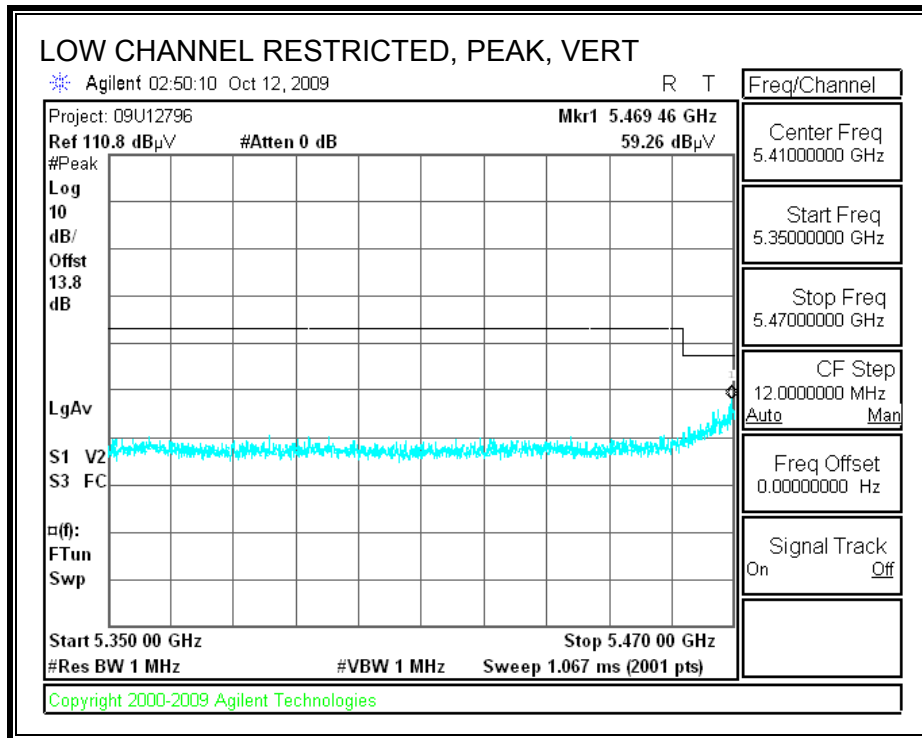
High Frequency Measurement															
Compliance Certification Services, Fremont 5m Chamber															
Test Engr:		Vien Tran													
Date:		10/13/09													
Project #:		09U12796													
Company:		Intel													
EUT Description:		Intel® Centrino® Advanced-N 6200 (Tested Inside Of Lenovo ThinkPad X200/X201 Tablet Series)													
EUT M/N:		622ANHMW													
Test Target:		FCC Class B													
Mode Oper:		Tx 5.6GHz Band_11a_Mid Channel_Chain A_Worst-Case													
f	Measurement Frequency	Amp	Preamp Gain	Average Field Strength Limit											
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Peak Field Strength Limit											
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Margin vs. Average Limit											
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Margin vs. Peak Limit											
CL	Cable Loss	HPF	High Pass Filter												
f	Dist	Read	AF	CL	Amp	D Corr	Fitr	Corr.	Limit	Margin	Ant. Pol.	Det.	Ant.High	Table Angle	Notes
GHz	(m)	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dB	V/H	P/A/QP	cm	Degree	
11a 5600MHz Chain A Vert															
11.200	3.0	31.8	38.0	9.4	-32.5	0.0	0.0	46.6	74.0	-27.4	V	P	114.0	19.0	
11.200	3.0	19.9	38.0	9.4	-32.5	0.0	0.0	34.7	54.0	-19.3	V	A	114.0	19.0	
11a 5600MHz Chain A Hor															
11.200	3.0	33.2	38.0	9.4	-32.5	0.0	0.0	48.1	74.0	-25.9	H	P	141.0	-3.0	
11.200	3.0	20.2	38.0	9.4	-32.5	0.0	0.0	35.0	54.0	-19.0	H	A	141.0	-3.0	
Rev. 4.1.2.7															
Note: No other emissions were detected above the system noise floor.															

8.2.18. 802.11a MODE IN THE 5.6 GHz BAND_CHAIN B

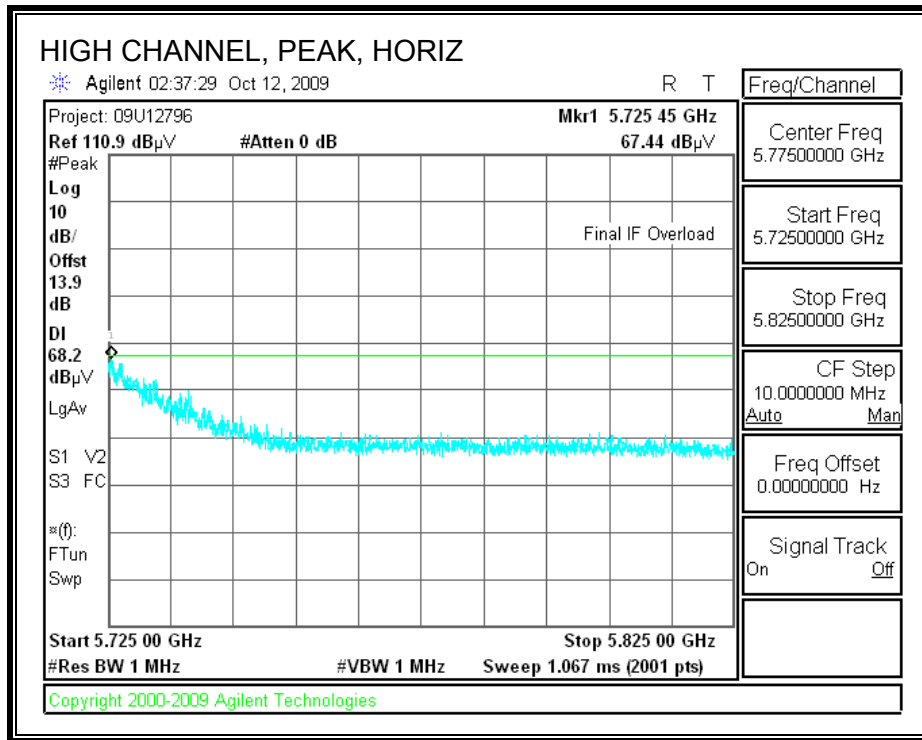
RESTRICTED BANEDGE (LOW CHANNEL, HORIZONTAL)



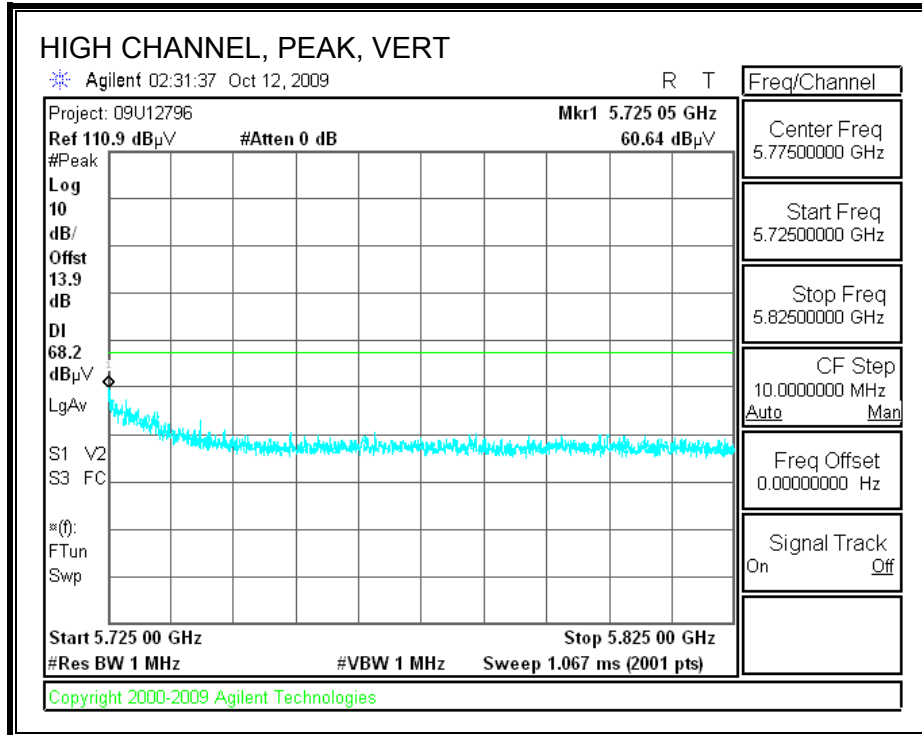
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)

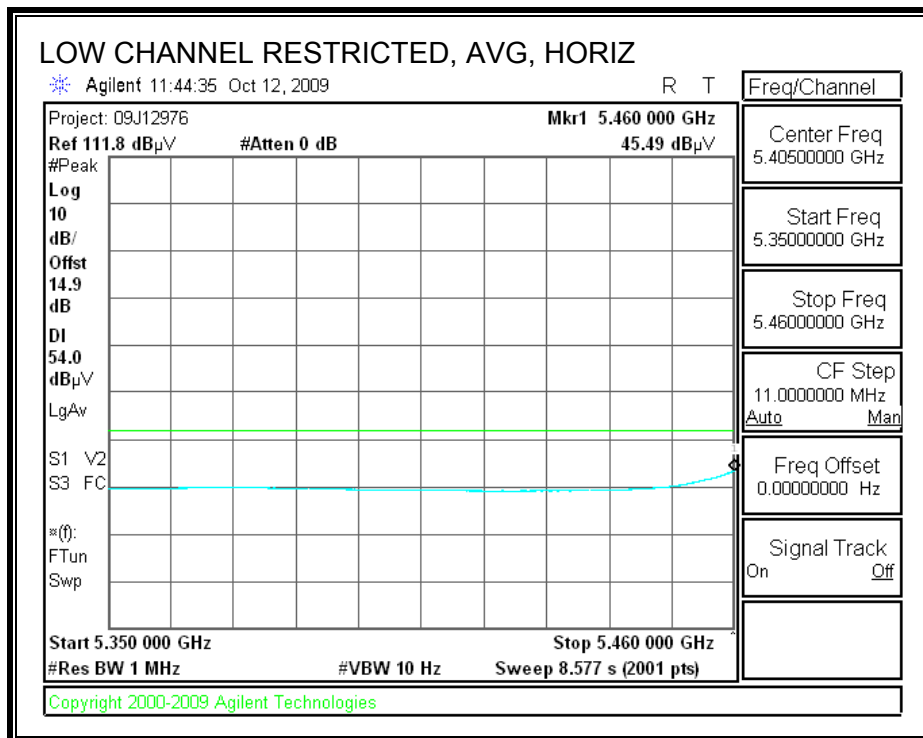
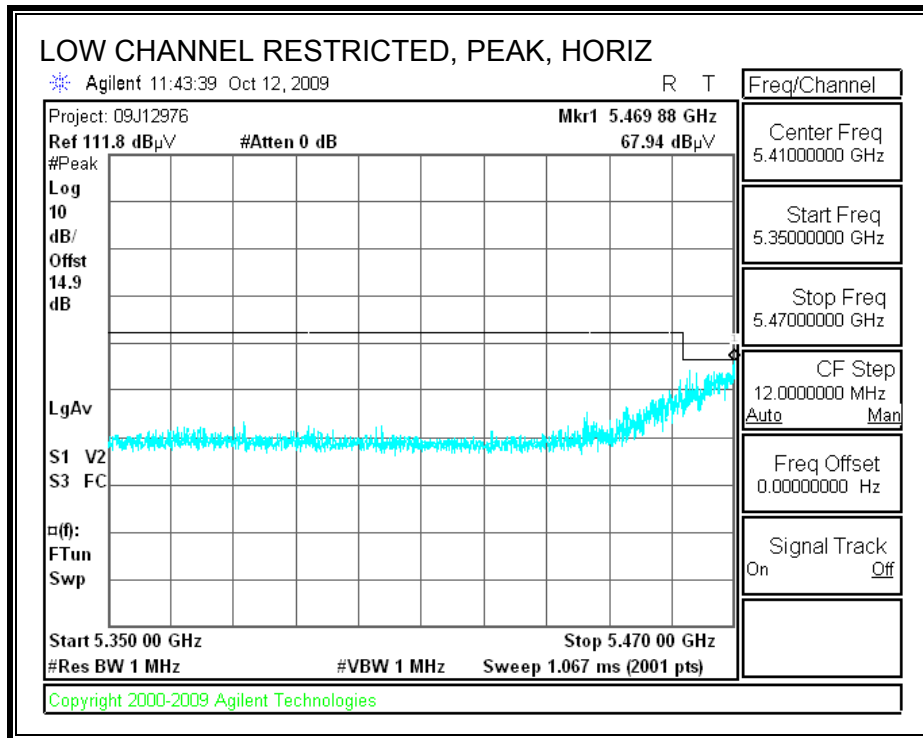


HARMONICS AND SPURIOUS EMISSIONS

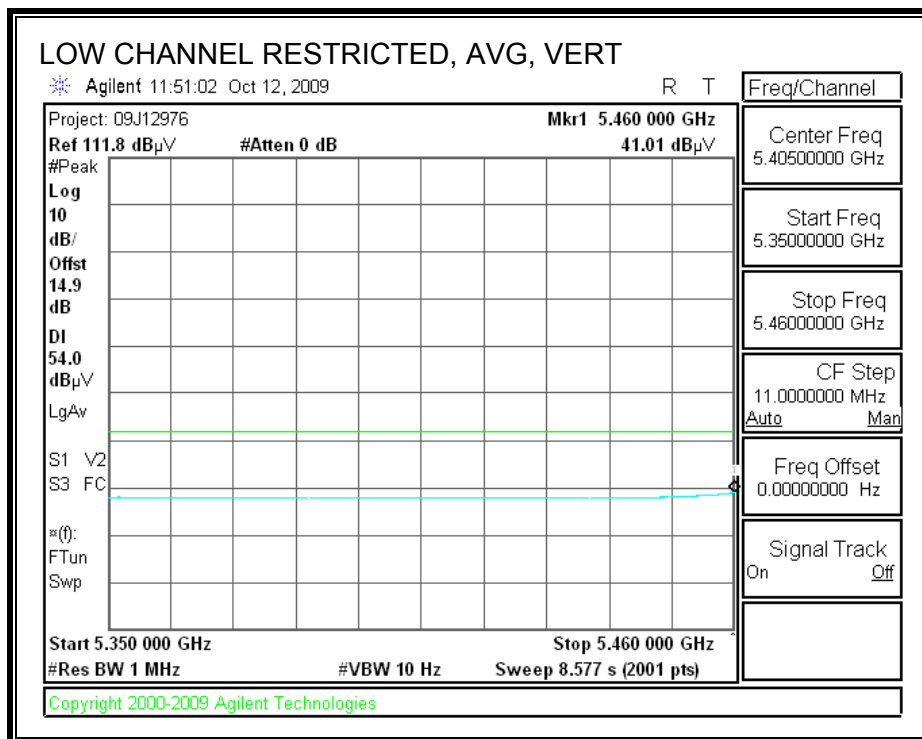
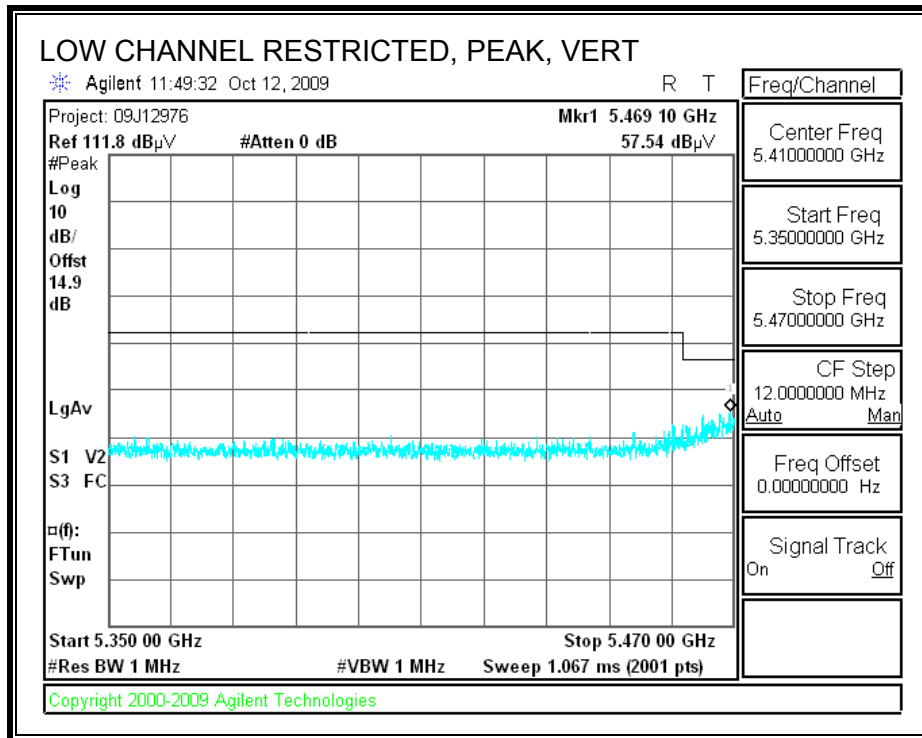
High Frequency Measurement															
Compliance Certification Services, Fremont 5m Chamber															
Test Engr:		Vien Tran													
Date:		10/13/09													
Project #:		09U12796													
Company:		Intel													
EUT Description:		Intel® Centrino® Advanced-N 6200 (Tested Inside Of Lenovo ThinkPad X200/X201 Tablet Series)													
EUT M/N:		622ANHMW													
Test Target:		FCC Class B													
Mode Oper:		Tx 5.6GHz Band_11a_Mid Channel_Chain B_Worst-Case													
f	Measurement Frequency	Amp	Preamp Gain	Average Field Strength Limit											
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Peak Field Strength Limit											
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Margin vs. Average Limit											
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Margin vs. Peak Limit											
CL	Cable Loss	HPF	High Pass Filter												
f	Dist	Read	AF	CL	Amp	D Corr	Fitr	Corr.	Limit	Margin	Ant. Pol.	Det.	Ant.High	Table Angle	Notes
GHz	(m)	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dB	V/H	P/A/QP	cm	Degree	
11a 5600MHz Chain B Vert															
11.200	3.0	33.0	38.0	9.4	-32.5	0.0	0.0	47.9	74.0	-26.1	V	P	116.0	22.0	
11.200	3.0	21.1	38.0	9.4	-32.5	0.0	0.0	36.0	54.0	-18.0	V	A	116.0	22.0	
11a 5600MHz Chain B Hor															
11.200	3.0	34.7	38.0	9.4	-32.5	0.0	0.0	49.4	74.0	-24.6	H	P	136.0	5.0	
11.200	3.0	21.6	38.0	9.4	-32.5	0.0	0.0	36.3	54.0	-17.7	H	A	136.0	5.0	
Rev. 4.1.2.7															
Note: No other emissions were detected above the system noise floor.															

8.2.19. 802.11n HT20 MODE IN THE 5.6 GHz BAND_CHAIN A

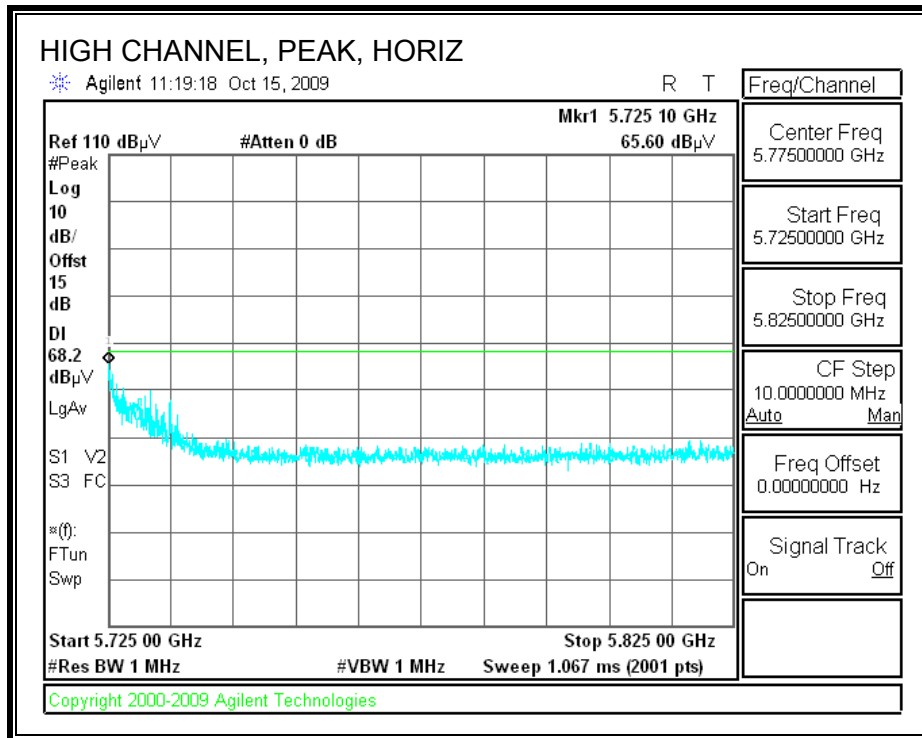
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



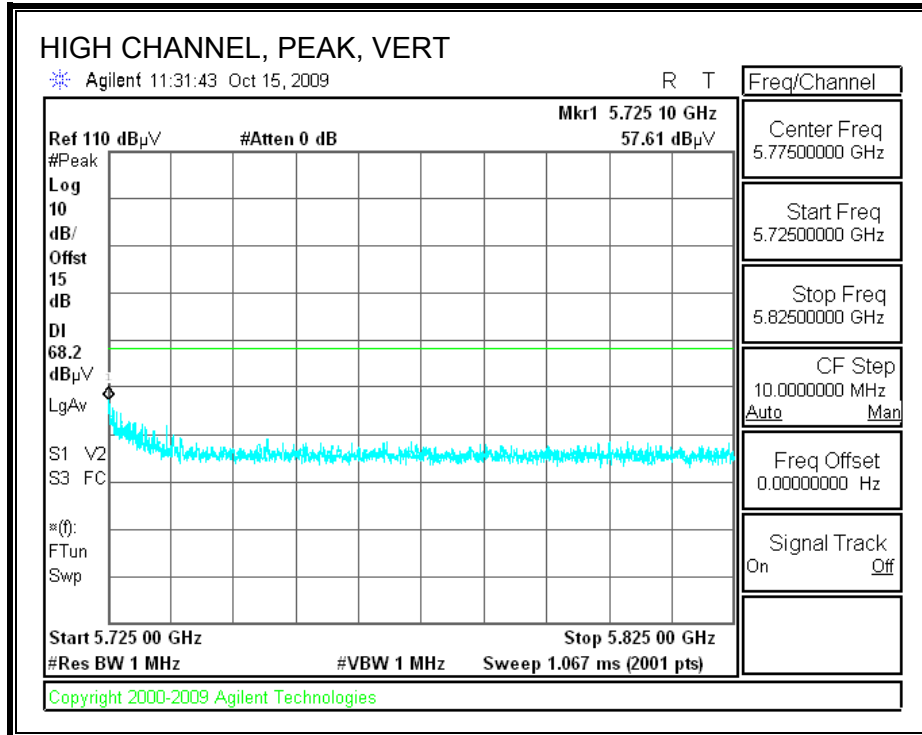
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)

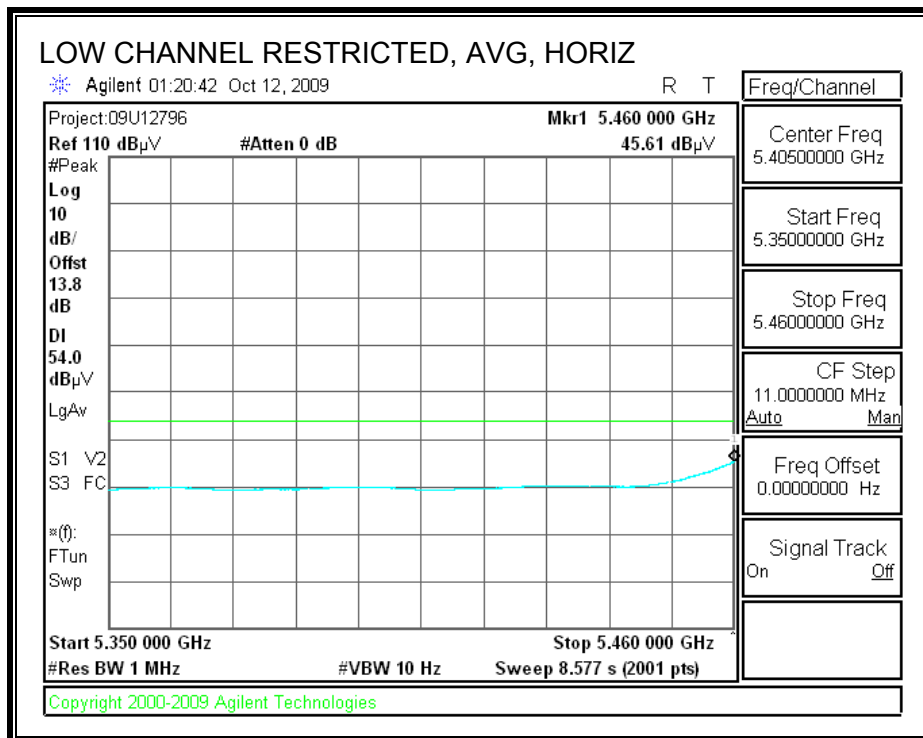
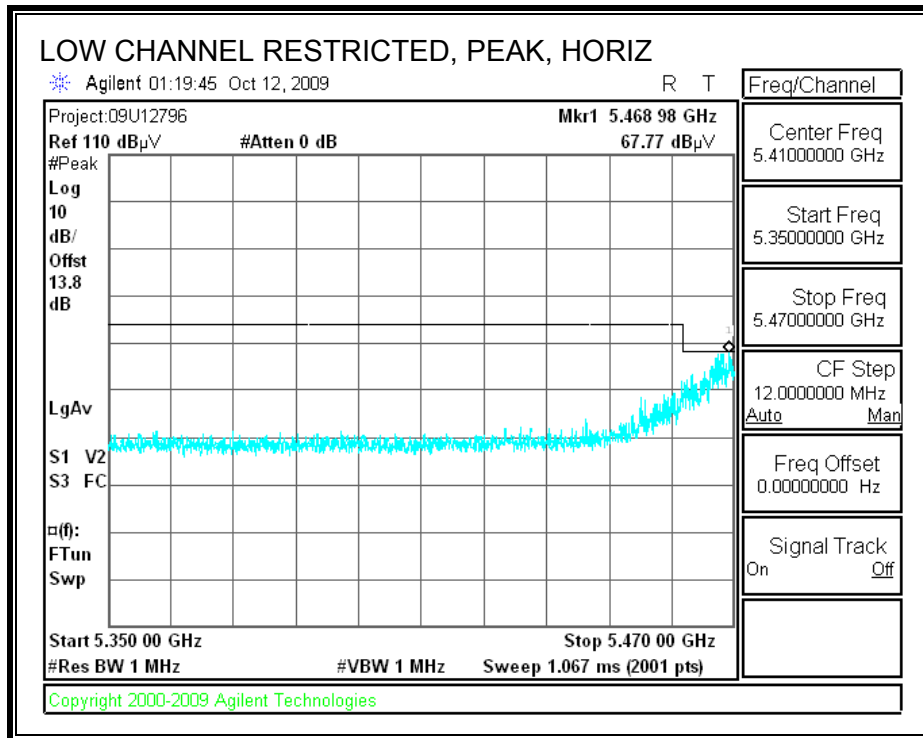


HARMONICS AND SPURIOUS EMISSIONS

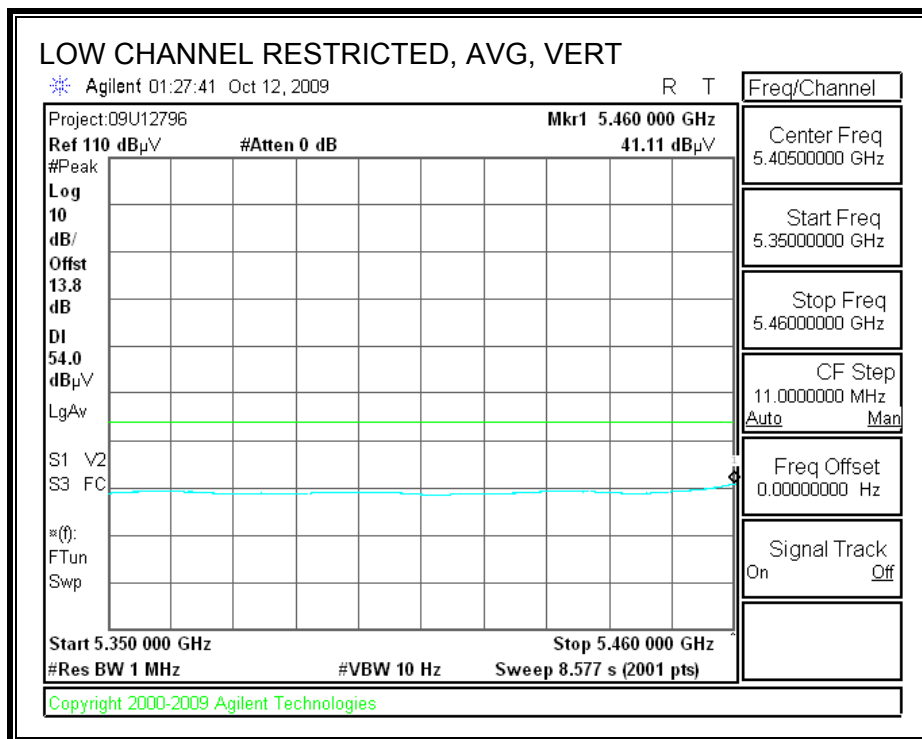
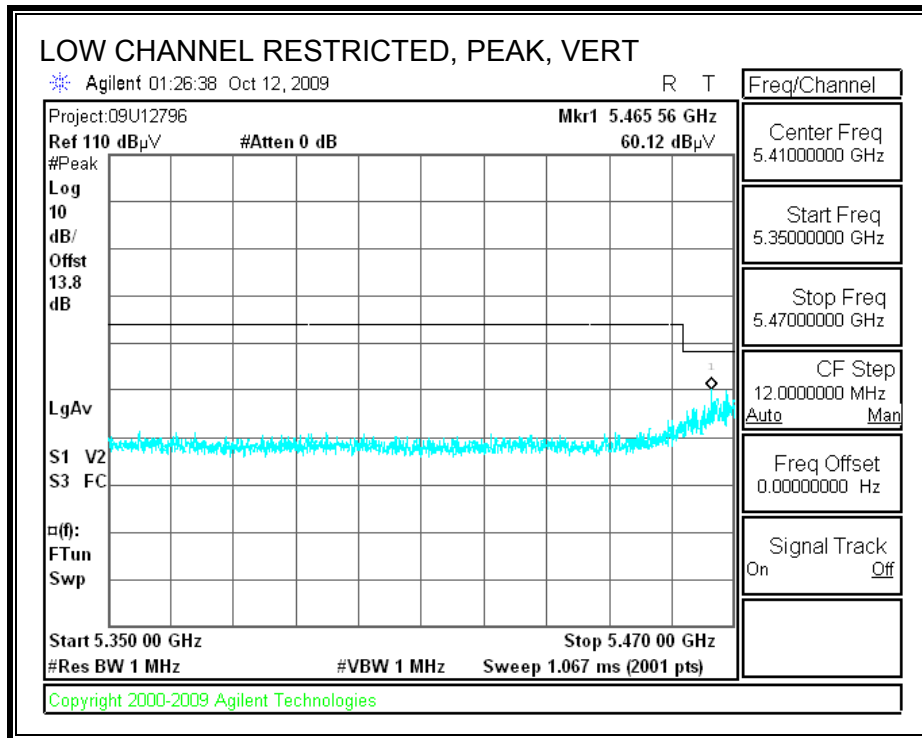
High Frequency Measurement															
Compliance Certification Services, Fremont 3m Chamber															
Test Engr:		Vien Tran													
Date:		10/13/09													
Project #:		09U12796													
Company:		Intel													
EUT Description:		Intel® Centrino® Advanced-N 6200 (Tested Inside Of Lenovo ThinkPad X200/X201 Tablet Series)													
EUT M/N:		622ANHMMW													
Test Target:		FCC Class B													
Mode Oper:		Tx 5.6GHz Band_HT20_Mid Channel_Chain A													
f	Measurement Frequency	Amp	Preamp Gain	Average Field Strength Limit											
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Peak Field Strength Limit											
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Margin vs. Average Limit											
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Margin vs. Peak Limit											
CL	Cable Loss	HPF	High Pass Filter												
f	Dist	Read	AF	CL	Amp	D Corr	Fitr	Corr.	Limit	Margin	Ant. Pol.	Det.	Ant.High	Table Angle	Notes
GHz	(m)	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dB	V/H	P/A/QP	cm	Degree	
HT20 5600MHz Chain A Vert															
11.200	3.0	31.7	38.0	9.4	-32.5	0.0	0.0	46.6	74.0	-27.4	V	P	102.0	131.0	
11.200	3.0	19.8	38.0	9.4	-32.5	0.0	0.0	34.6	54.0	-19.4	V	A	102.0	131.0	
HT20 5600MHz Chain A Hor															
11.200	3.0	32.6	38.0	9.4	-32.5	0.0	0.0	47.4	74.0	-26.6	H	P	100.0	267.0	
11.200	3.0	19.7	38.0	9.4	-32.5	0.0	0.0	34.5	54.0	-19.5	H	A	100.0	267.0	
Rev. 4.1.2.7															
Note: No other emissions were detected above the system noise floor.															

8.2.20. 802.11n HT20 MODE IN THE 5.6 GHz BAND_CHAIN B

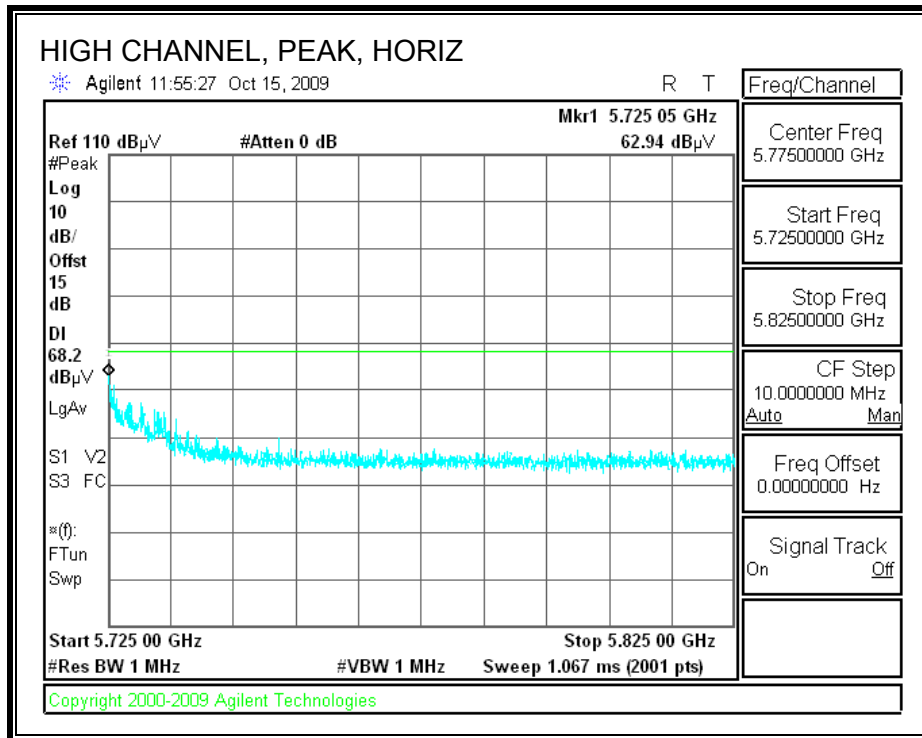
RESTRICTED BANEDGE (LOW CHANNEL, HORIZONTAL)



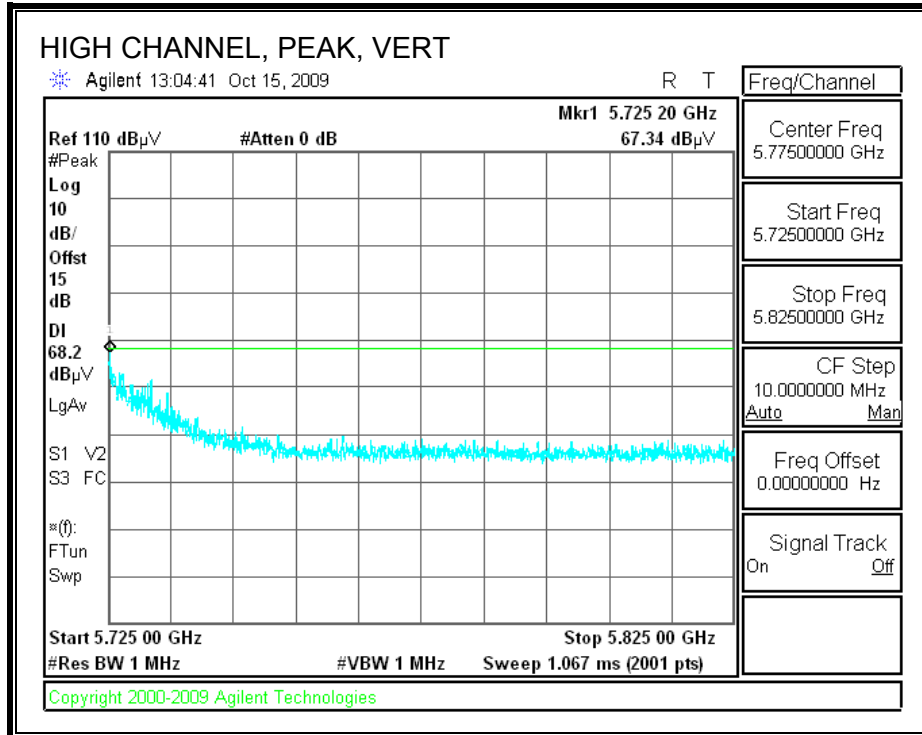
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)



HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement
 Compliance Certification Services, Fremont 3m Chamber

Test Engr: Vien Tran
 Date: 10/13/09
 Project #: 09U12796
 Company: Intel
 EUT Description: Intel® Centrino® Advanced-N 6200 (Tested Inside Of Lenovo ThinkPad X200/X201 Tablet Series)
 EUT M/N: 622ANHMMW
 Test Target: FCC Class B
 Mode Oper: Tx 5.6GHz Band_HT20_Mid Channel_Chain B

f Measurement Frequency Amp Preamp Gain Average Field Strength Limit
 Dist Distance to Antenna D Corr Distance Correct to 3 meters Peak Field Strength Limit
 Read Analyzer Reading Avg Average Field Strength @ 3 m Margin vs. Average Limit
 AF Antenna Factor Peak Calculated Peak Field Strength Margin vs. Peak Limit
 CL Cable Loss HPF High Pass Filter

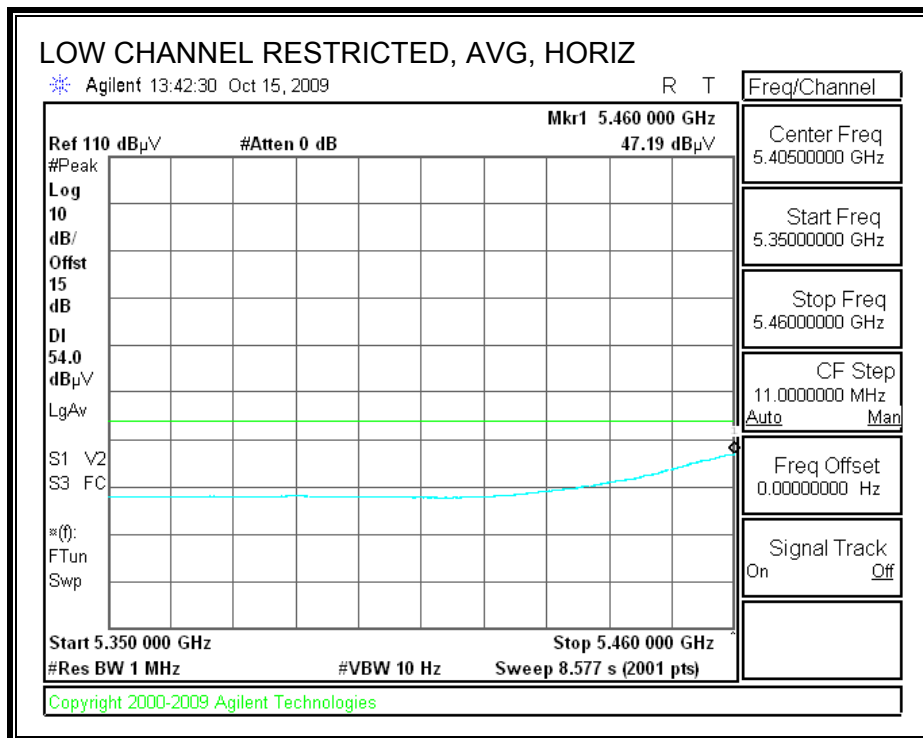
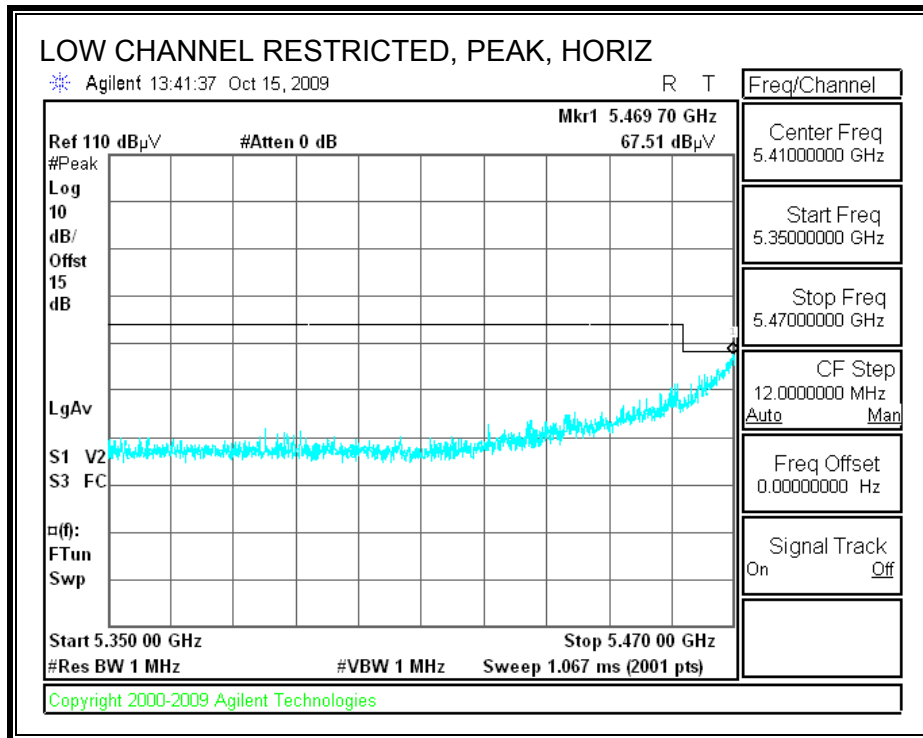
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fitr dB	Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant. Pol V/H	Det. P/A/QP	Ant.High cm	Table Angle Degree	Notes
HT20 5600MHz Chain B Vert															
11.200	3.0	33.7	38.0	9.4	-32.5	0.0	0.0	48.6	74.0	-25.4	V	P	112.0	135.0	
11.200	3.0	21.8	38.0	9.4	-32.5	0.0	0.0	36.7	54.0	-17.3	V	A	112.0	135.0	
HT20 5600MHz Chain B Hor															
11.200	3.0	34.4	38.0	9.4	-32.5	0.0	0.0	49.3	74.0	-24.7	H	P	109.0	287.0	
11.200	3.0	21.5	38.0	9.4	-32.5	0.0	0.0	36.4	54.0	-17.6	H	A	109.0	287.0	

Rev. 4.1.2.7

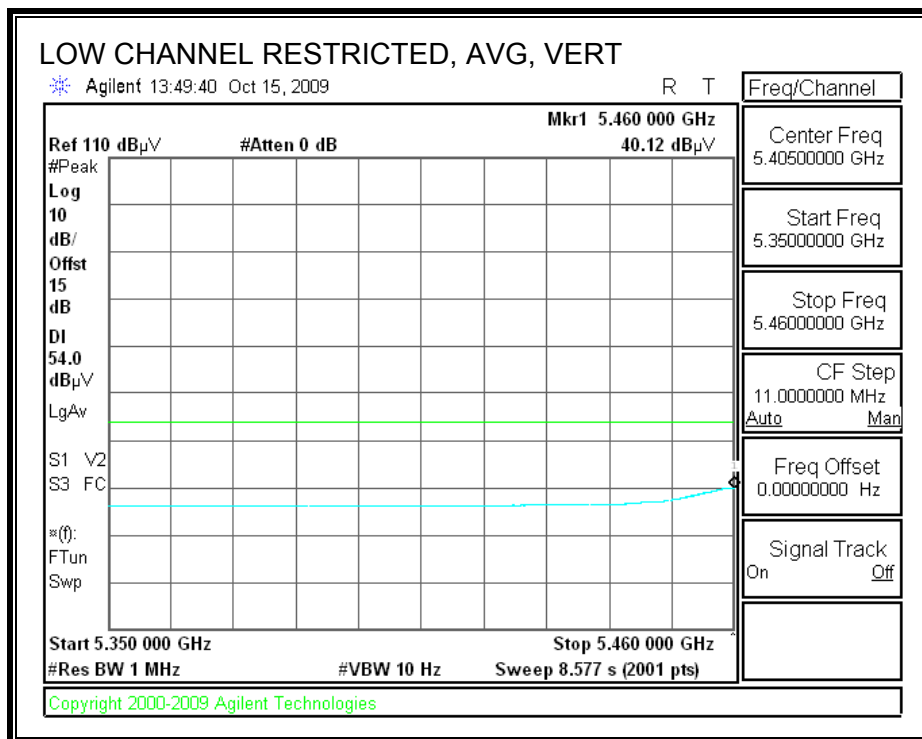
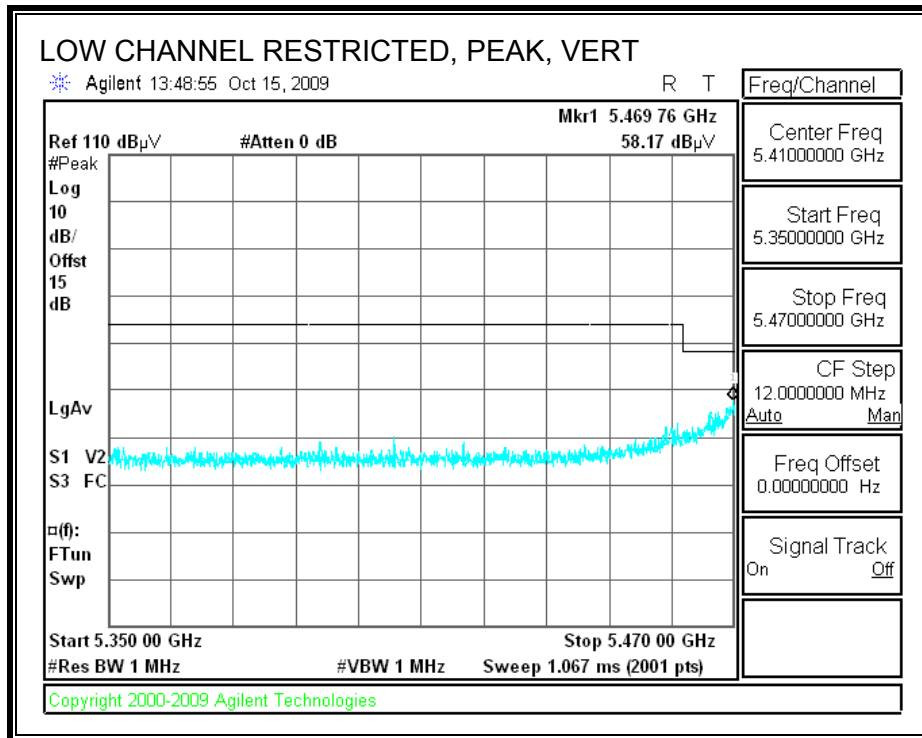
Note: No other emissions were detected above the system noise floor.

8.2.21. 802.11n HT40 MODE IN THE 5.6 GHz BAND_CHAIN A

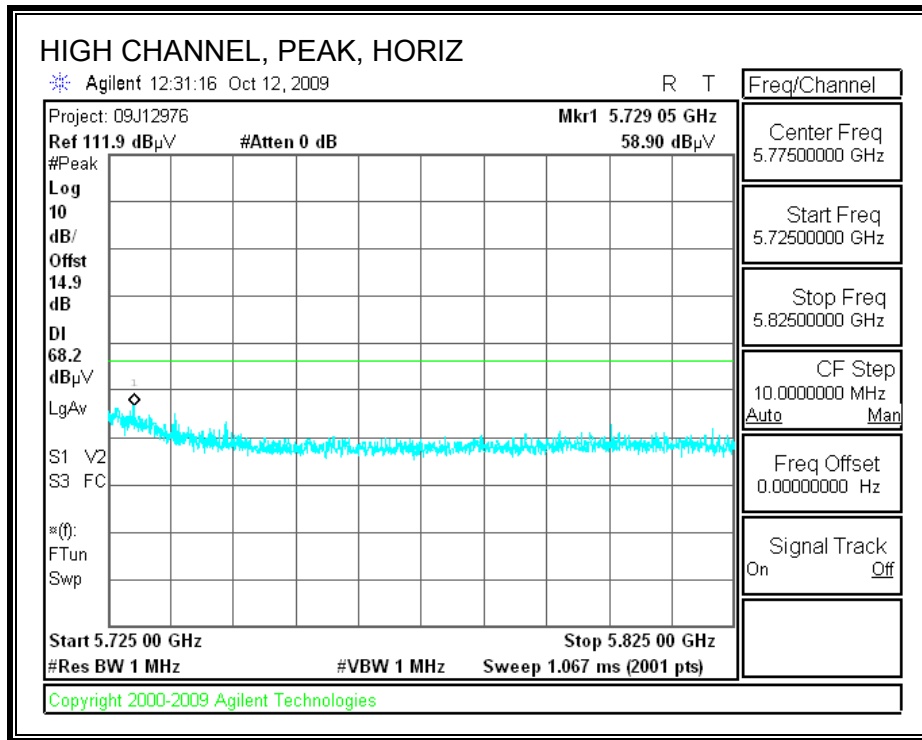
RESTRICTED BANEDGE (LOW CHANNEL, HORIZONTAL)



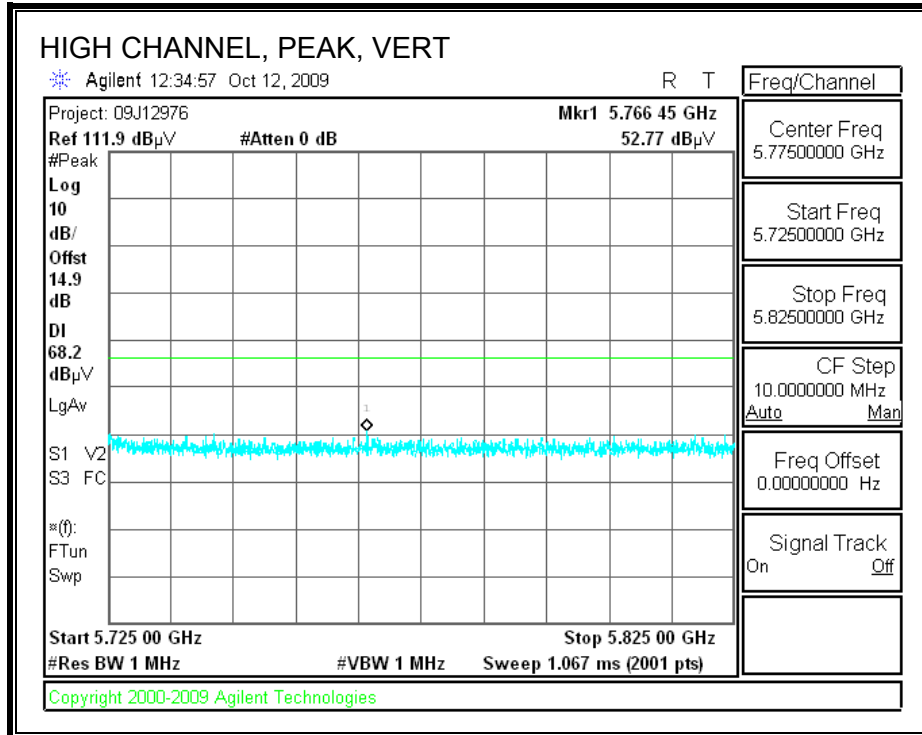
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)

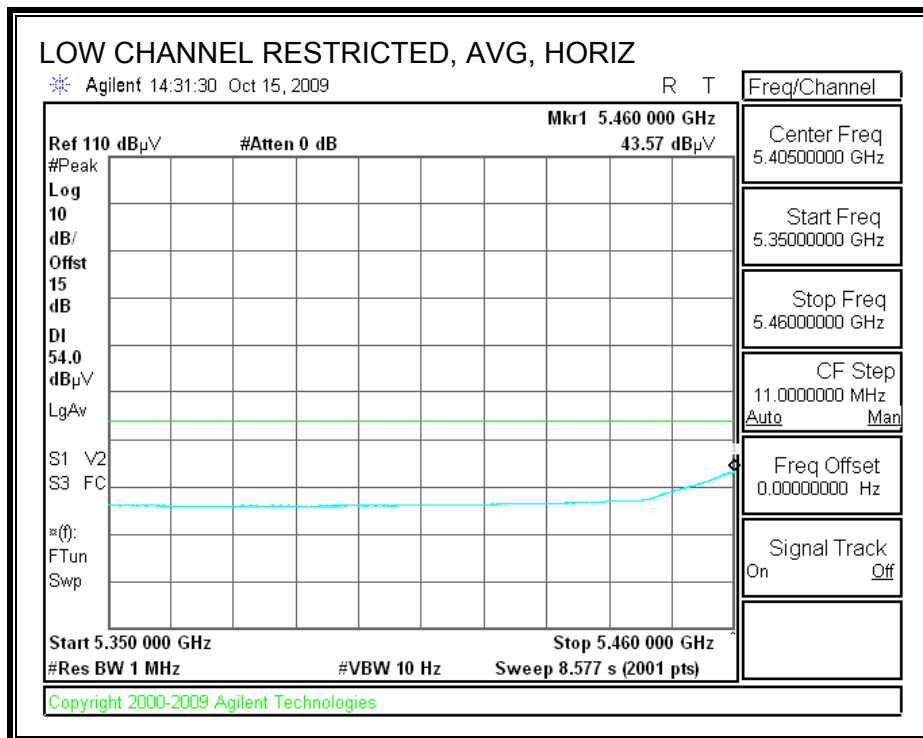
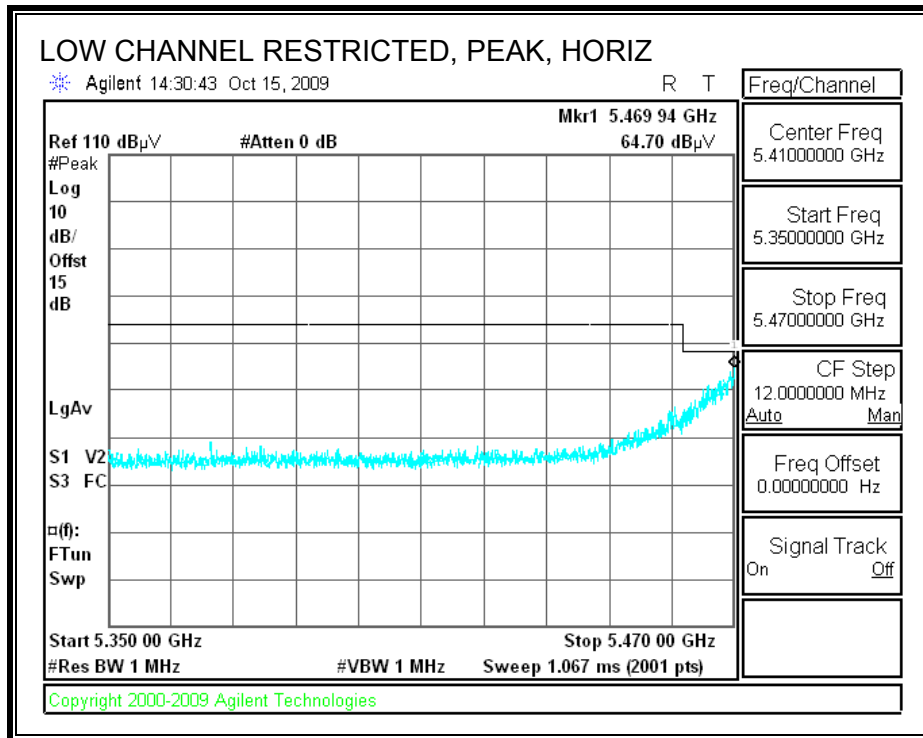


HARMONICS AND SPURIOUS EMISSIONS

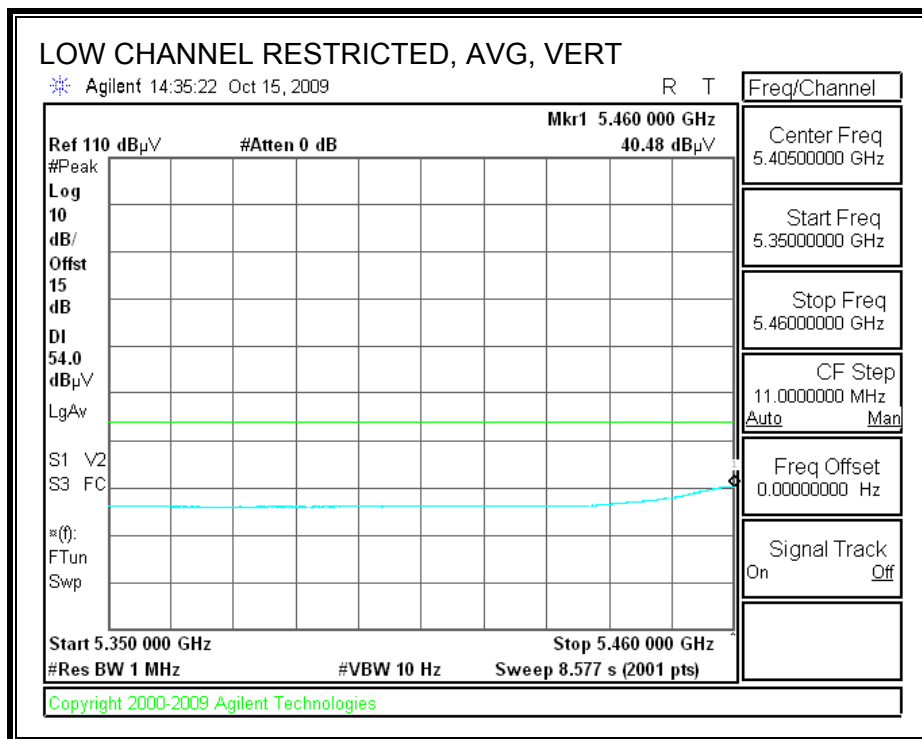
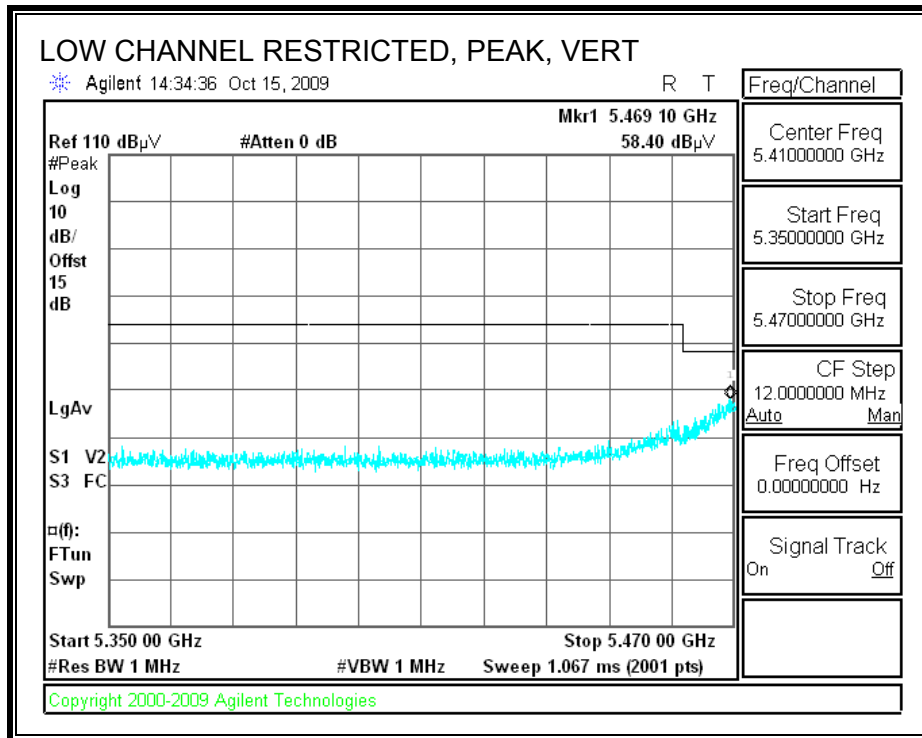
High Frequency Measurement																
Compliance Certification Services, Fremont 3m Chamber																
Test Engr:		Vien Tran														
Date:		10/13/09														
Project #:		09U12796														
Company:		Intel														
EUT Description:		Intel® Centrino® Advanced-N 6200 (Tested Inside Of Lenovo ThinkPad X200/X201 Tablet Series)														
EUT M/N:		622ANHMMW														
Test Target:		FCC Class B														
Mode Oper:		Tx 5.6GHz Band_HT40_Mid Channel_Chain A														
f	Measurement Frequency	Amp	Preamp Gain													Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters													Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m													Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength													Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter													
f	Dist	Read	AF	CL	Amp	D Corr	Fitr	Corr.	Limit	Margin	Ant. Pol.	Det.	Ant.High	Table Angle	Notes	
GHz	(m)	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dB	V/H	P/A/QP	cm	Degree		
HT40 5510MHz Chain A Vert																
11.020	3.0	36.1	37.6	9.2	-32.6	0.0	0.0	50.4	74.0	-23.6	V	P	100.0	119.0		
11.020	3.0	24.9	37.6	9.2	-32.6	0.0	0.0	39.2	54.0	-14.8	V	A	100.0	119.0		
HT40 5510MHz Chain A Hor																
11.020	3.0	36.1	37.6	9.2	-32.6	0.0	0.0	50.4	74.0	-23.6	H	P	99.0	69.0		
11.020	3.0	24.9	37.6	9.2	-32.6	0.0	0.0	39.1	54.0	-14.9	H	A	99.0	69.0		
Rev. 4.1.2.7																
Note: No other emissions were detected above the system noise floor.																

8.2.22. 802.11n HT40 MODE IN THE 5.6 GHz BAND_CHAIN B

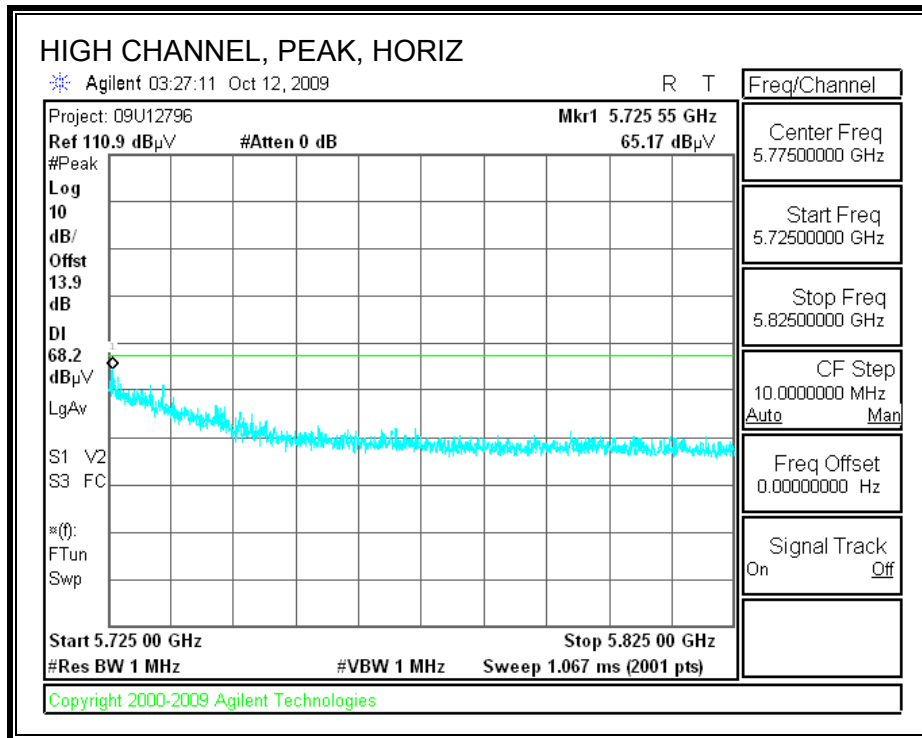
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



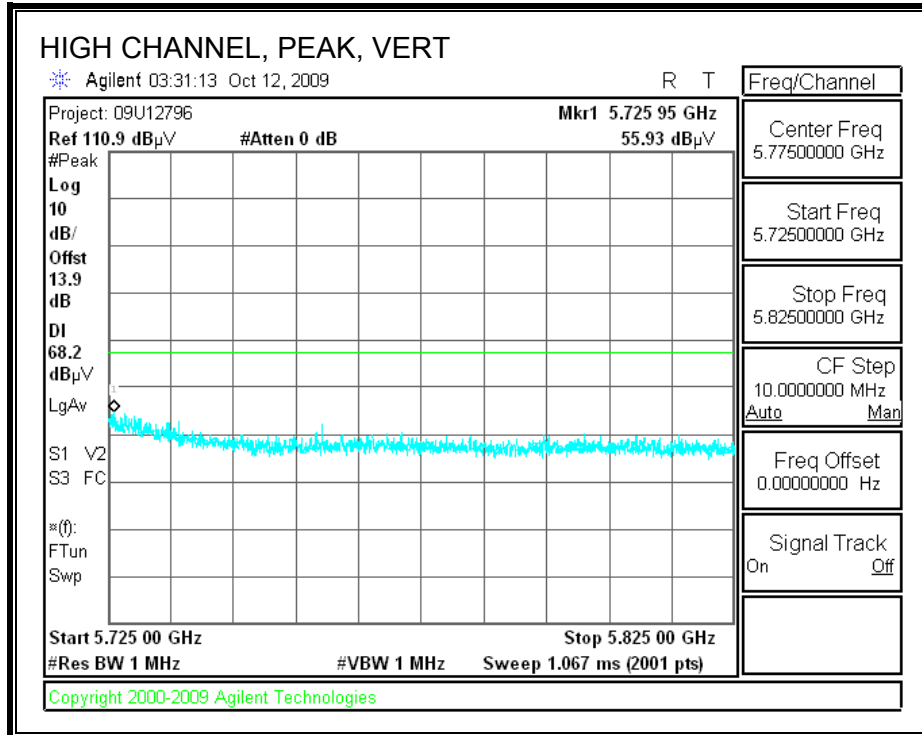
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)

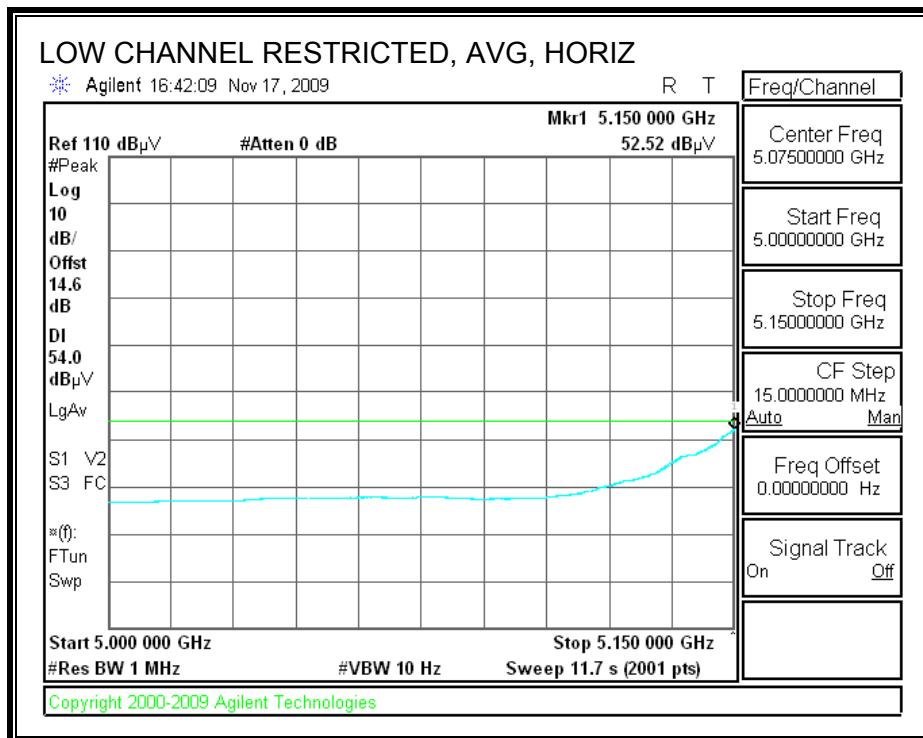
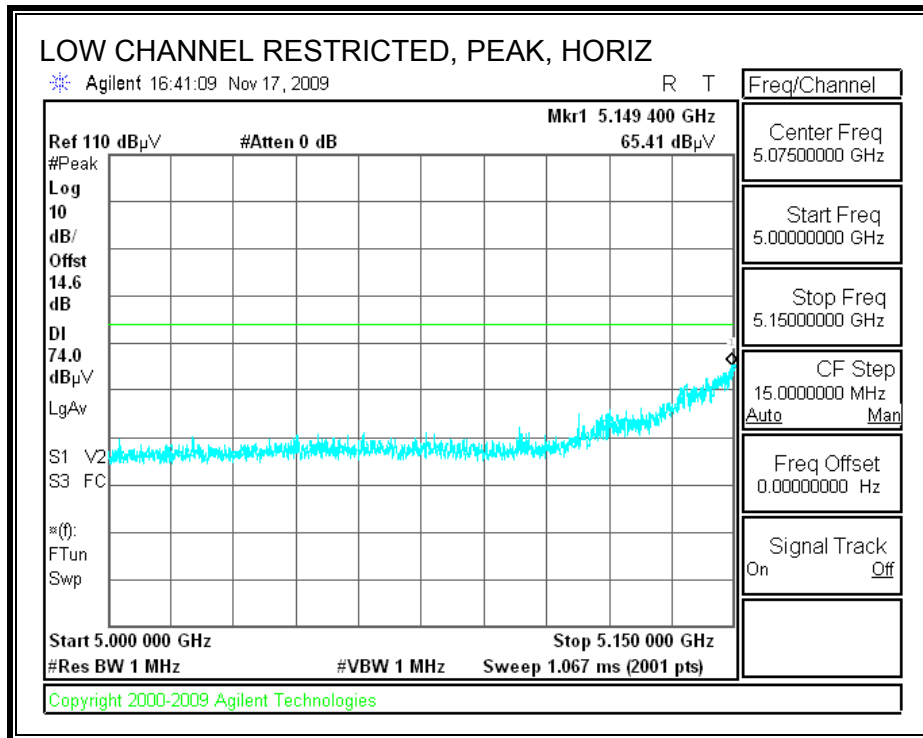


HARMONICS AND SPURIOUS EMISSIONS

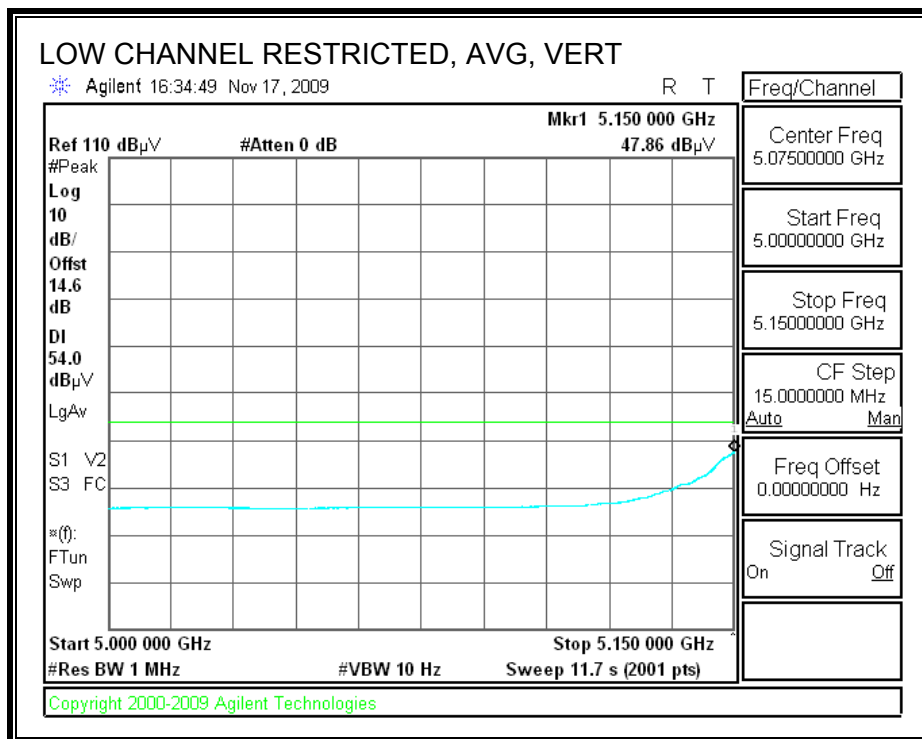
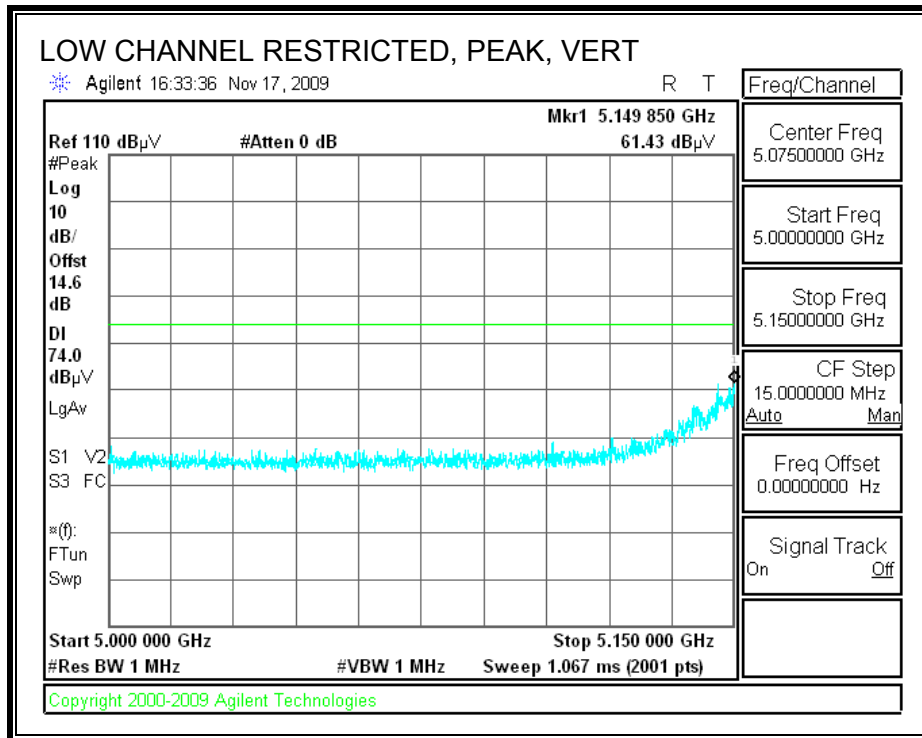
High Frequency Measurement															
Compliance Certification Services, Fremont 3m Chamber															
Test Engr:		Vien Tran													
Date:		10/13/09													
Project #:		09U12796													
Company:		Intel													
EUT Description:		Intel® Centrino® Advanced-N 6200 (Tested Inside Of Lenovo ThinkPad X200/X201 Tablet Series)													
EUT M/N:		622ANHMMW													
Test Target:		FCC Class B													
Mode Oper:		Tx 5.6GHz Band_HT40_Mid Channel_Chain B													
f	Measurement Frequency	Amp	Preamp Gain	Average Field Strength Limit											
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Peak Field Strength Limit											
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Margin vs. Average Limit											
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Margin vs. Peak Limit											
CL	Cable Loss	HPF	High Pass Filter												
f	Dist	Read	AF	CL	Amp	D Corr	Fitr	Corr.	Limit	Margin	Ant. Pol.	Det.	Ant.High	Table Angle	Notes
GHz	(m)	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dB	V/H	P/A/QP	cm	Degree	
HT40 5510MHz Chain B Vert															
11.020	3.0	32.1	37.6	9.2	-32.6	0.0	0.0	46.4	74.0	-27.6	V	P	100.0	274.0	
11.020	3.0	20.0	37.6	9.2	-32.6	0.0	0.0	34.3	54.0	-19.7	V	A	100.0	274.0	
HT40 5510MHz Chain B Hor															
11.020	3.0	32.7	37.6	9.2	-32.6	0.0	0.0	47.0	74.0	-27.0	H	P	99.0	17.0	
11.020	3.0	20.9	37.6	9.2	-32.6	0.0	0.0	35.2	54.0	-18.8	H	A	99.0	17.0	
Rev. 4.1.2.7															
Note: No other emissions were detected above the system noise floor.															

8.2.23. 802.11n HT20 MODE IN THE 5.6 GHz BAND_CHAIN A+B

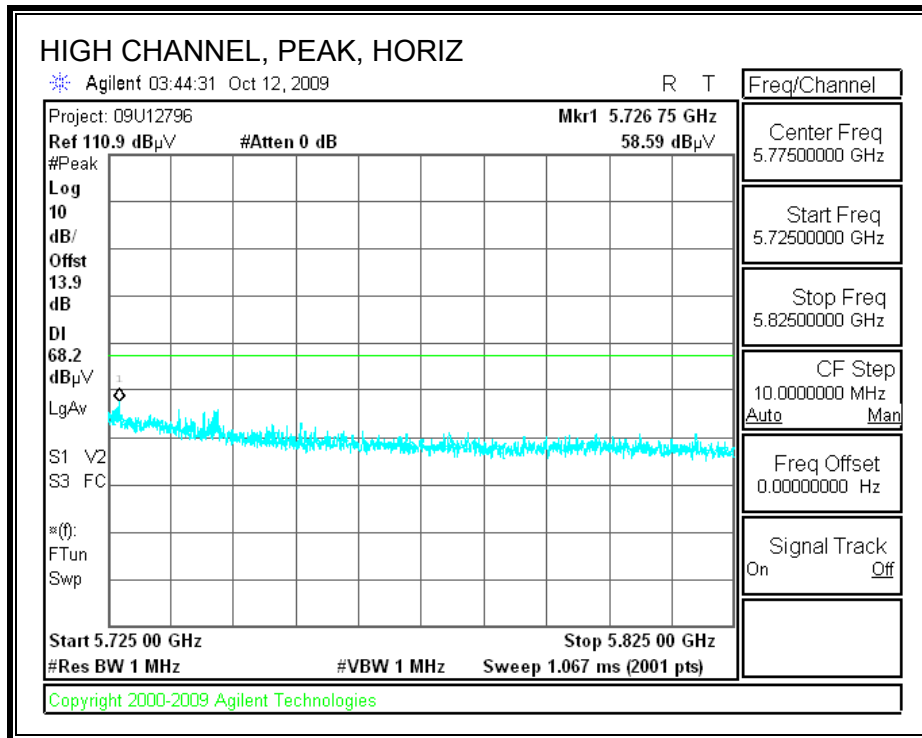
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



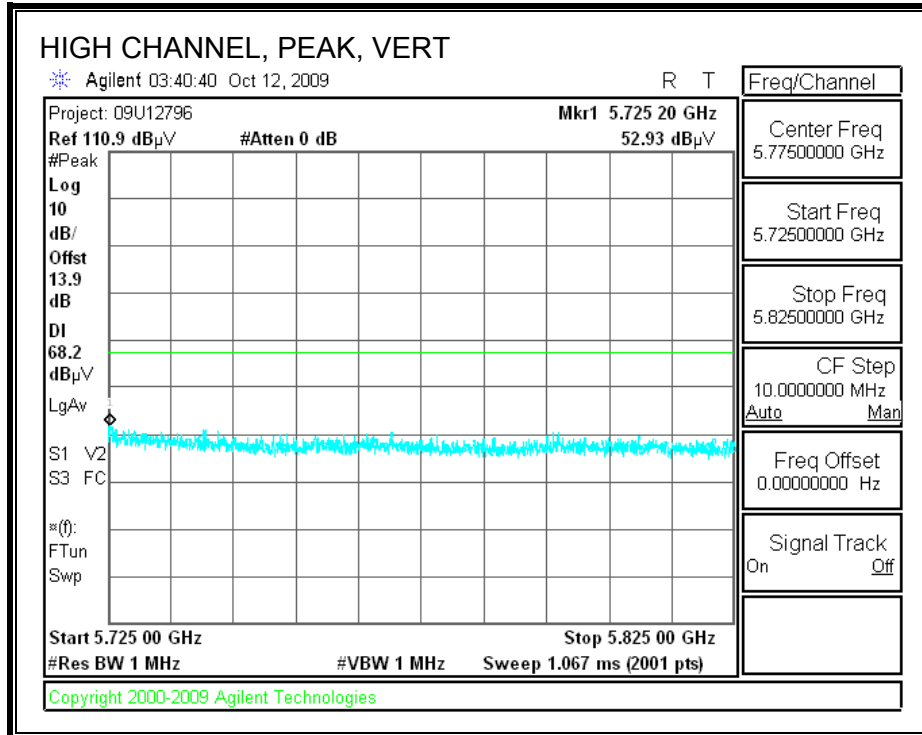
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)



HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement

Compliance Certification Services, Fremont 3m Chamber

Test Engr: Vien Tran
 Date: 10/13/09
 Project #: 09U12796
 Company: Intel
 EUT Description: Intel® Centrino® Advanced-N 6200 (Tested Inside Of Lenovo ThinkPad X200/X201 Tablet Series)
 EUT M/N: 622ANHMMW
 Test Target: FCC Class B
 Mode Oper: Tx 5.6GHz Band_HT20_Low Channel_Chain AB

f Measurement Frequency Amp Preamp Gain Average Field Strength Limit
 Dist Distance to Antenna D Corr Distance Correct to 3 meters Peak Field Strength Limit
 Read Analyzer Reading Avg Average Field Strength @ 3 m Margin vs. Average Limit
 AF Antenna Factor Peak Calculated Peak Field Strength Margin vs. Peak Limit
 CL Cable Loss HPF High Pass Filter

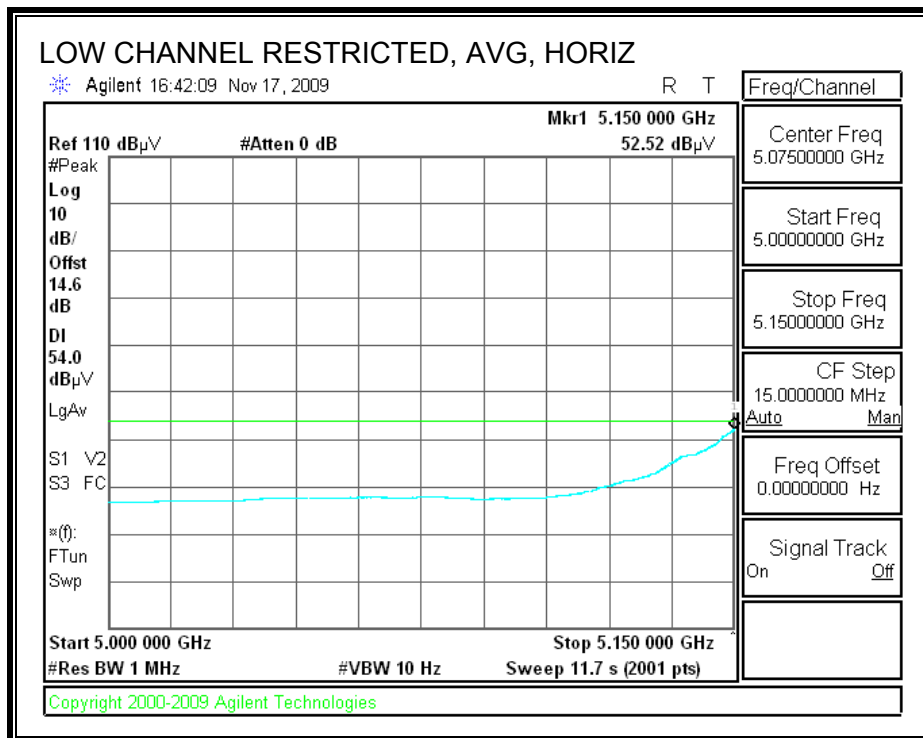
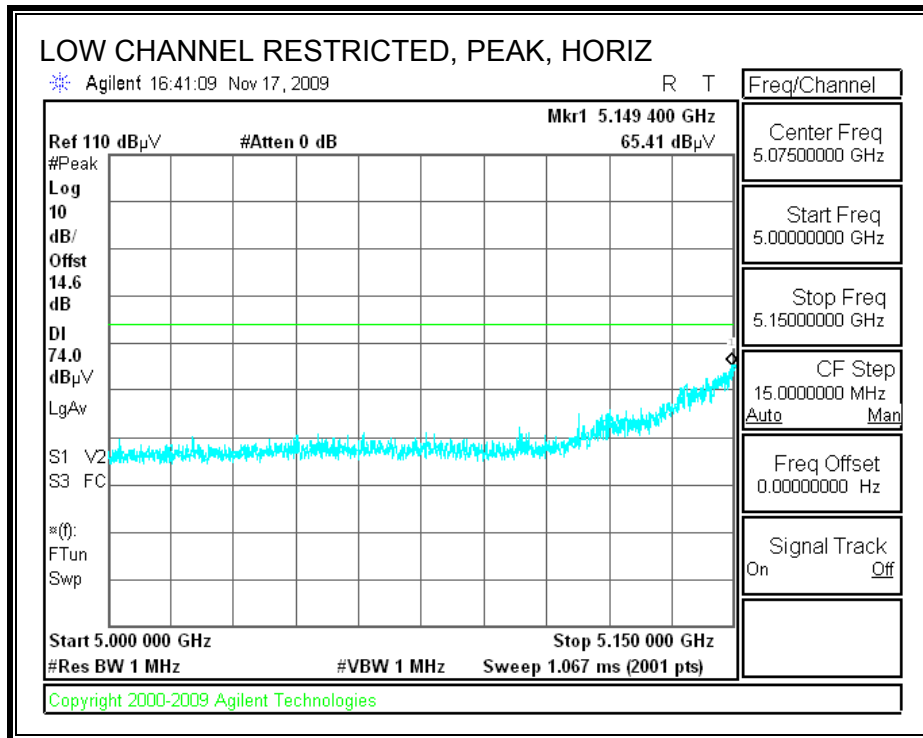
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fitr dB	Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant. Pol V/H	Det P/A/QP	Ant.High cm	Table Angle Degree	Notes
HT40 5600MHz Chain AB Vert															
11.200	3.0	34.8	37.8	9.3	-32.6	0.0	0.0	49.3	74.0	-24.7	V	P	100.0	8.0	
11.200	3.0	22.2	37.8	9.3	-32.6	0.0	0.0	36.7	54.0	-17.3	V	A	100.0	8.0	
HT40 5600MHz Chain AB Hor															
11.200	3.0	32.7	37.8	9.3	-32.6	0.0	0.0	47.2	74.0	-26.8	H	P	100.0	325.0	
11.200	3.0	20.6	37.8	9.3	-32.6	0.0	0.0	35.1	54.0	-18.9	H	A	100.0	325.0	
15.570	3.0	22.0	38.4	11.4	-32.2	0.0	0.0	39.5	54.0	-14.5	H	A	103.0	21.0	

Rev. 4.1.2.7

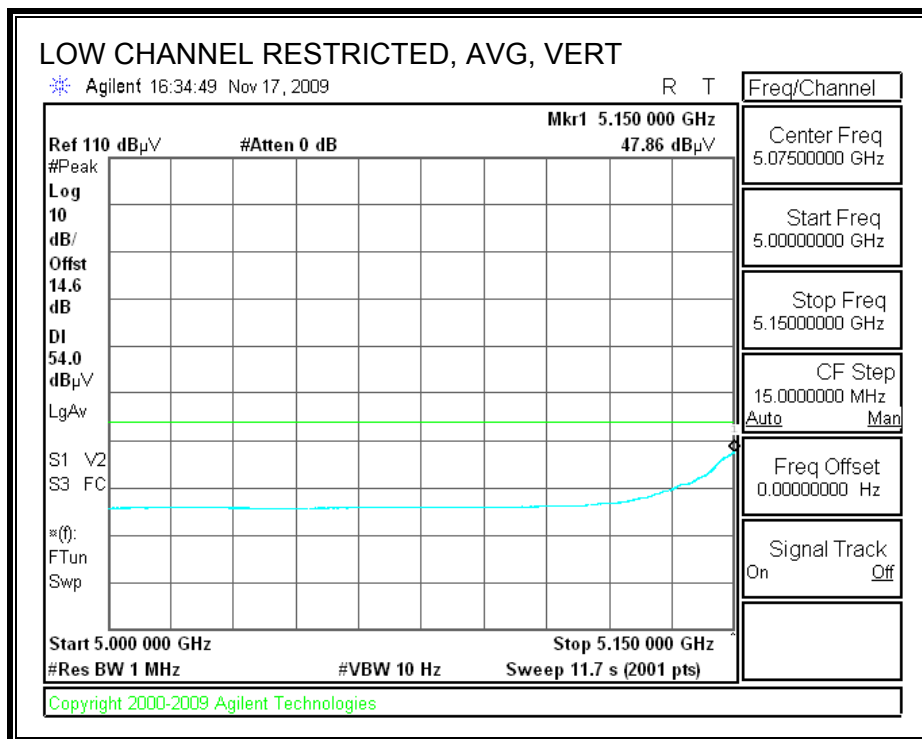
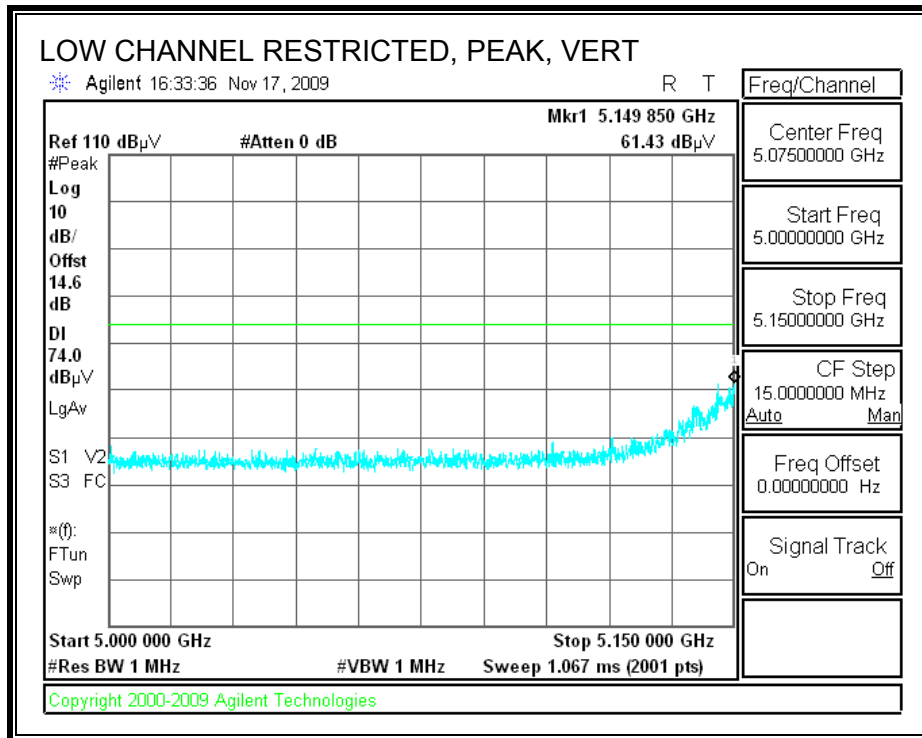
Note: No other emissions were detected above the system noise floor.

8.2.24. 802.11n HT40 MODE IN THE 5.6 GHz BAND_CHAIN A+B

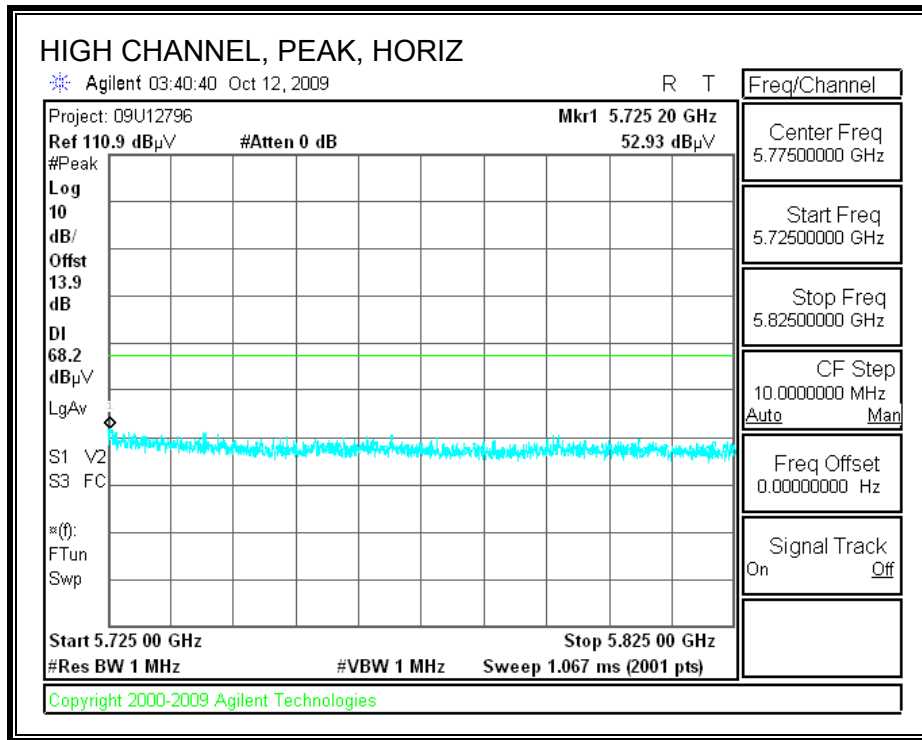
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



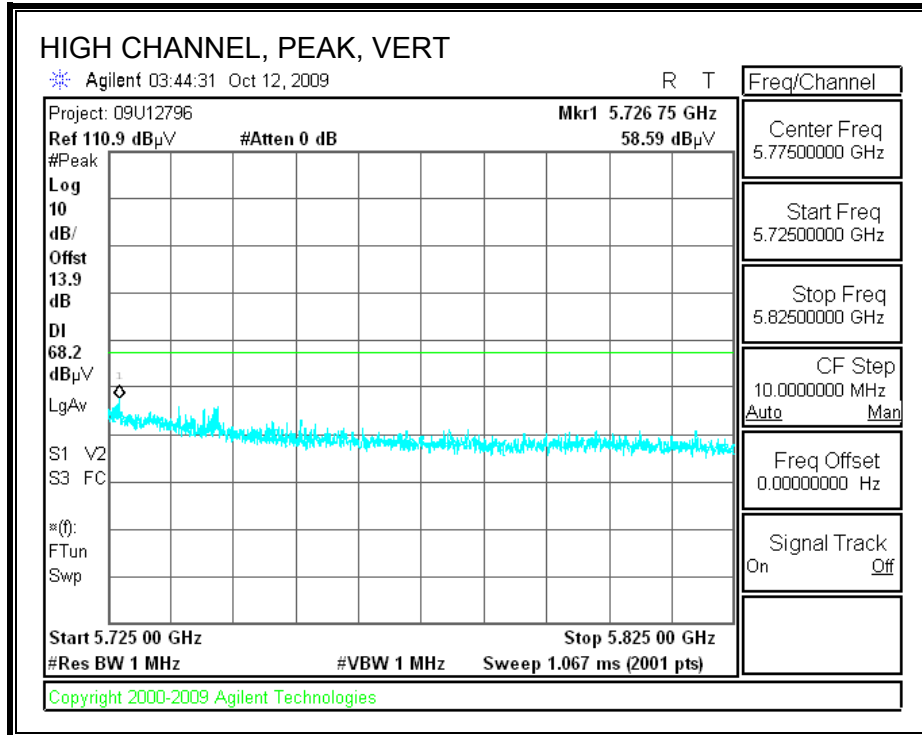
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



AUTHORIZED BANDEDGE (HIGH CHANNEL, VERTICAL)



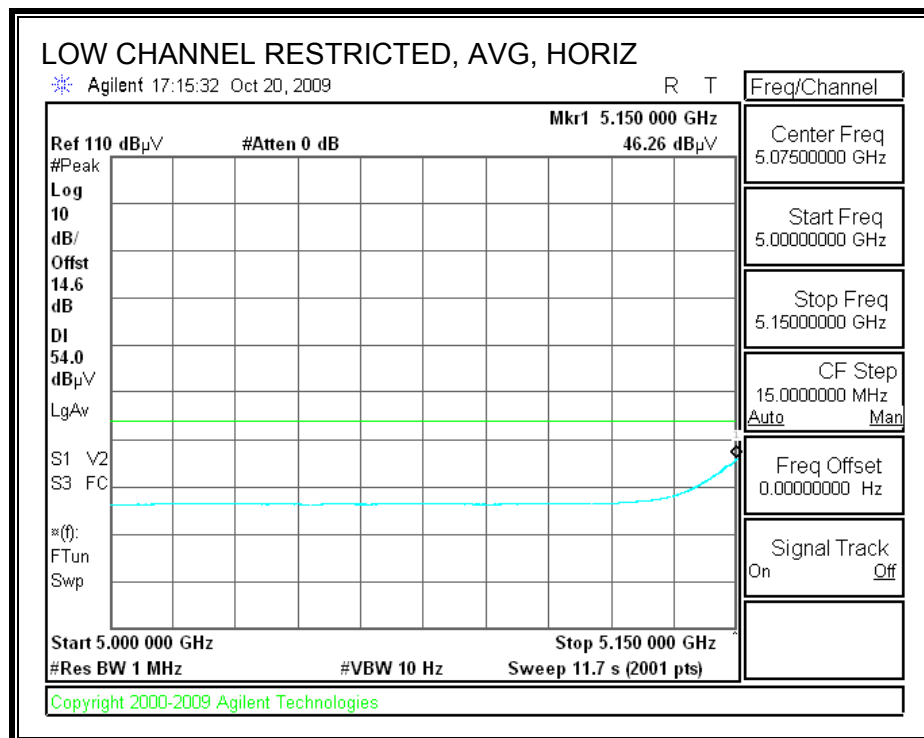
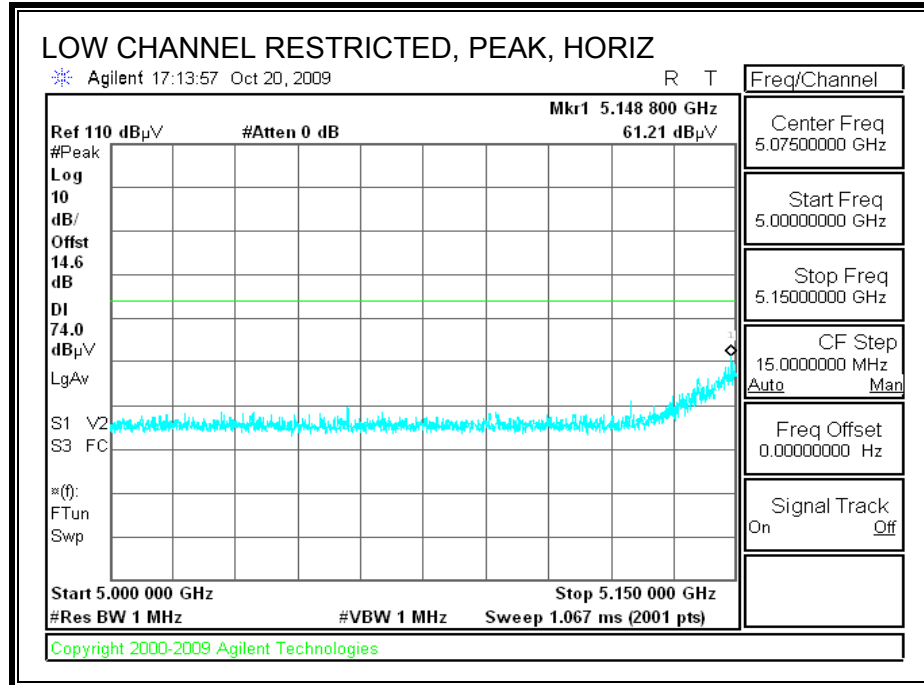
HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement															
Compliance Certification Services, Fremont 3m Chamber															
Test Engr:		Vien Tran													
Date:		10/13/09													
Project #:		09U12796													
Company:		Intel													
EUT Description:		Intel® Centrino® Advanced-N 6200 (Tested Inside Of Lenovo ThinkPad X200/X201 Tablet Series)													
EUT M/N:		622ANHMW													
Test Target:		FCC Class B													
Mode Oper:		Tx 5.6GHz Band_HT40_Mid Channel_Chain AB													
f	Measurement Frequency	Amp	Preamp Gain	Average Field Strength Limit											
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Peak Field Strength Limit											
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Margin vs. Average Limit											
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Margin vs. Peak Limit											
CL	Cable Loss	HPF	High Pass Filter												
f	Dist	Read	AF	CL	Amp	D Corr	Fitr	Corr.	Limit	Margin	Ant. Pol	Det.	Ant.High	Table Angle	Notes
GHz	(m)	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dB	V/H	P/A/QP	cm	Degree	
HT40 5510MHz Chain AB Vert															
11.020	3.0	32.2	37.6	9.2	-32.6	0.0	0.0	46.4	74.0	-27.6	V	P	106.0	76.0	
11.020	3.0	20.2	37.6	9.2	-32.6	0.0	0.0	34.5	54.0	-19.5	V	A	106.0	76.0	
HT40 5510MHz Chain AB Hor															
11.020	3.0	32.7	37.6	9.2	-32.6	0.0	0.0	47.0	74.0	-27.0	H	P	100.0	142.0	
11.020	3.0	20.2	37.6	9.2	-32.6	0.0	0.0	34.5	54.0	-19.5	H	A	100.0	142.0	
Rev. 4.1.2.7															
Note: No other emissions were detected above the system noise floor.															

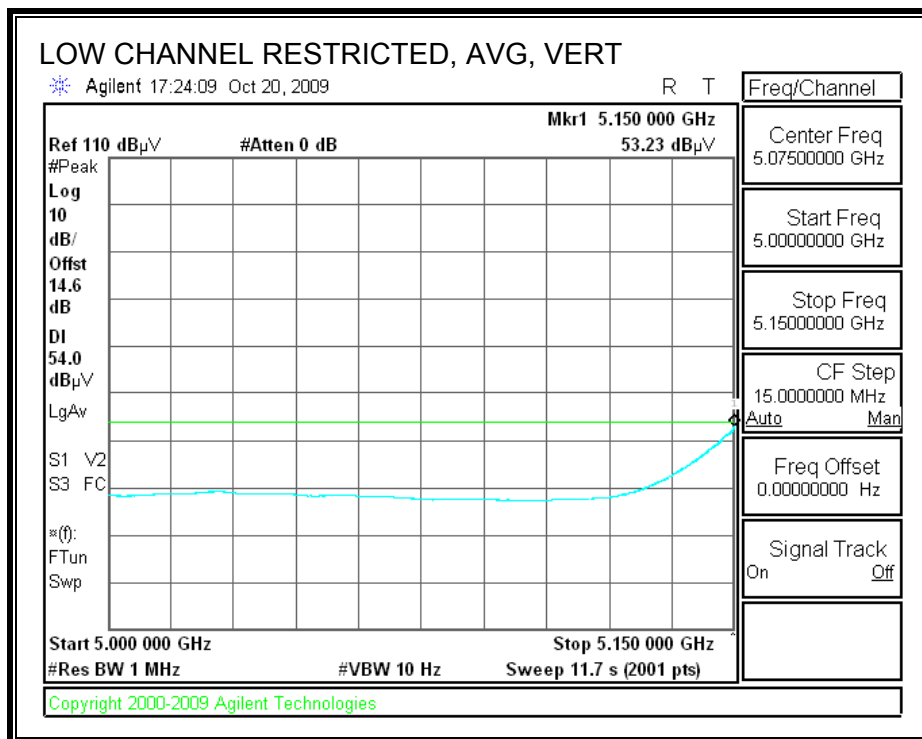
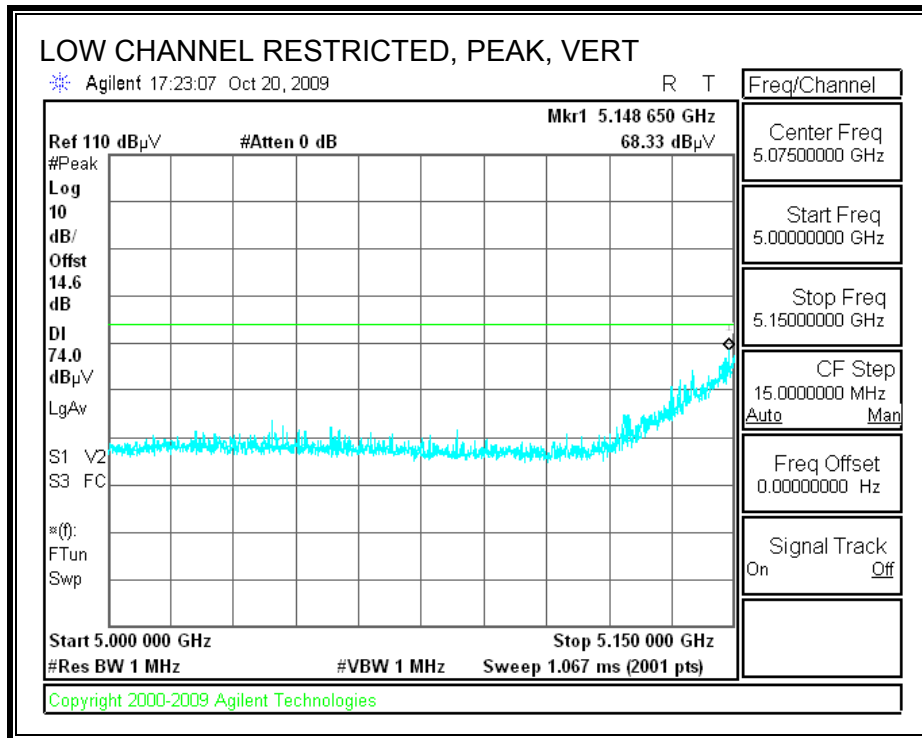
WISTRON (WNC) ANTENNA – Spot Check

8.3. TRANSMITTER ABOVE 1 GHz

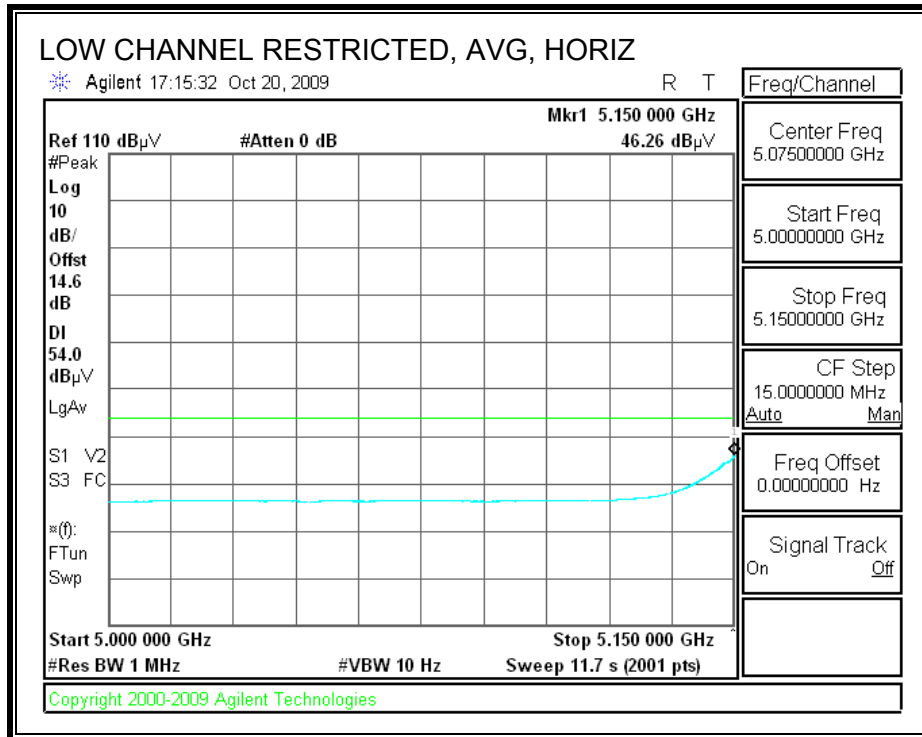
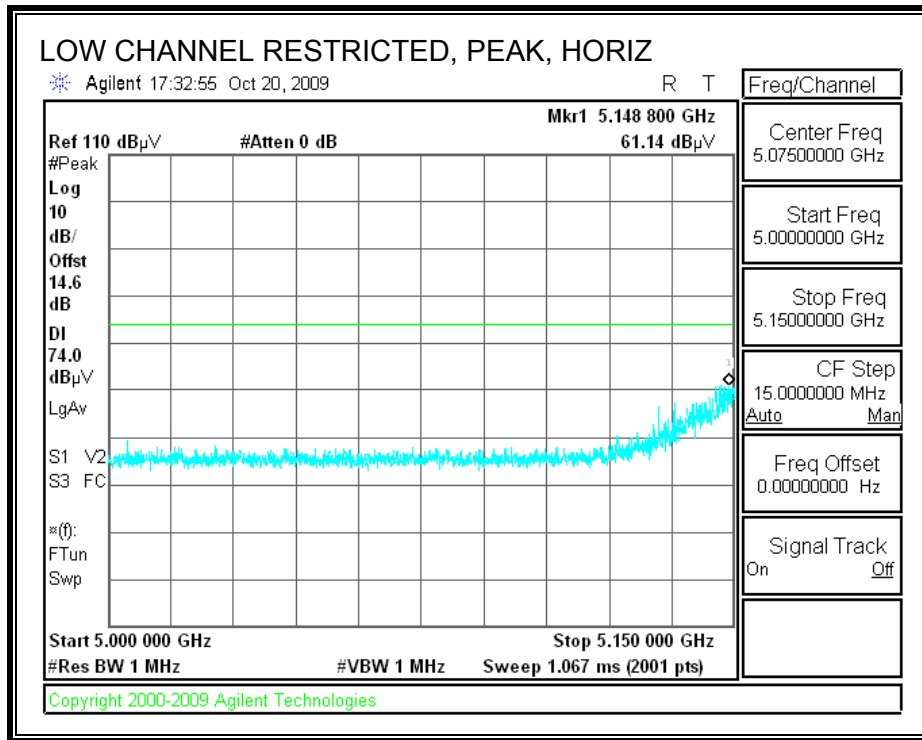
8.3.1. 802.11n HT40 MODE IN THE LOWER 5.2 GHz BAND_CHAIN A RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



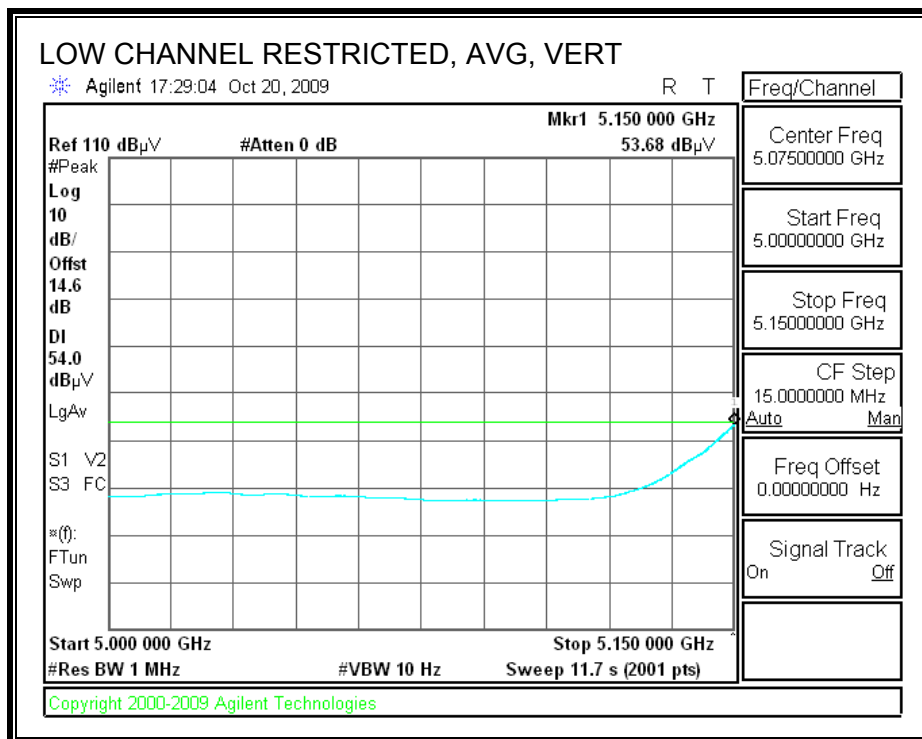
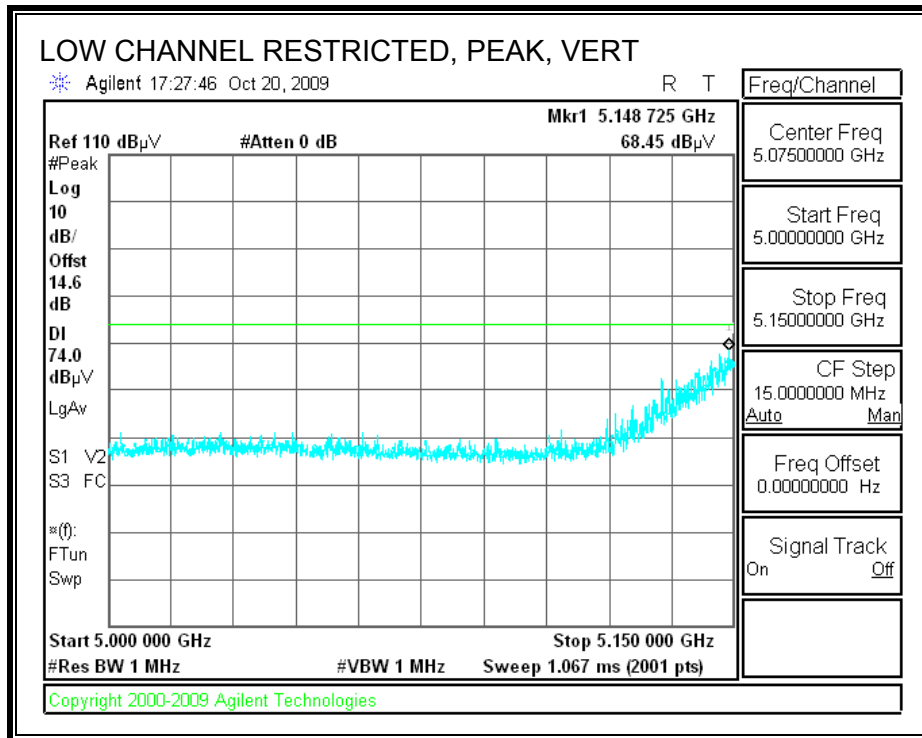
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



8.3.2. 802.11n HT20 MODE IN THE LOWER 5.2 GHz BAND_CHAIN A
RESTRICTED BANEDGE (LOW CHANNEL, HORIZONTAL)

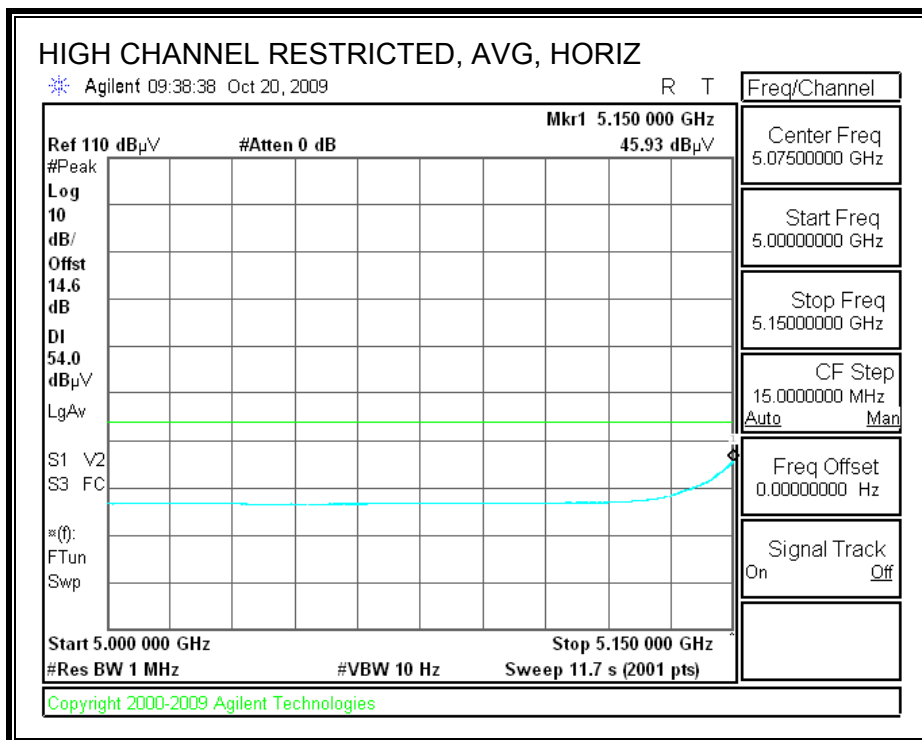
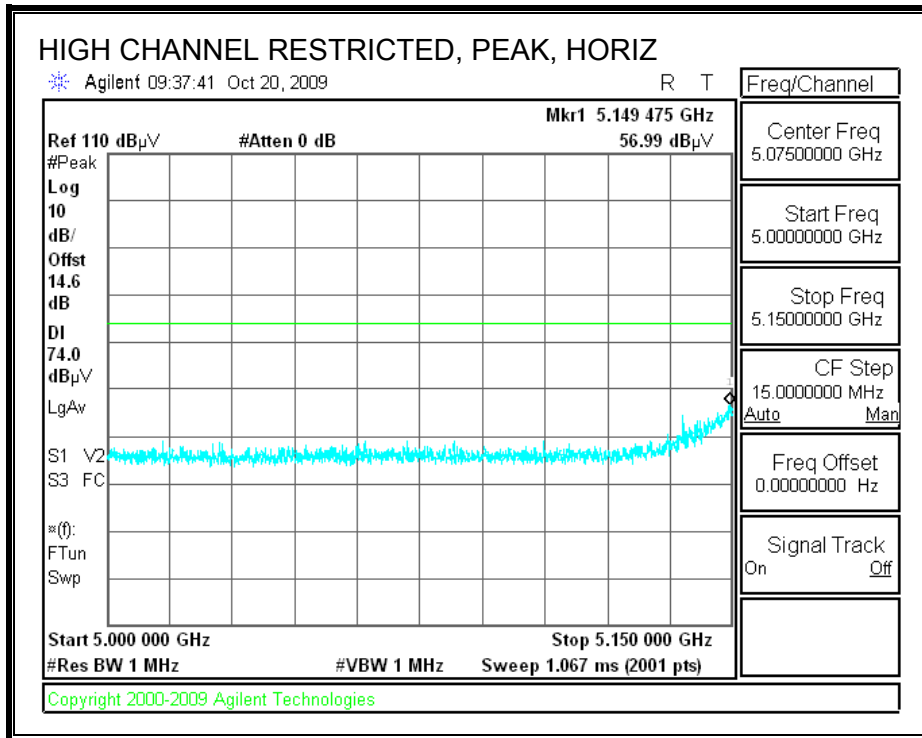


RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

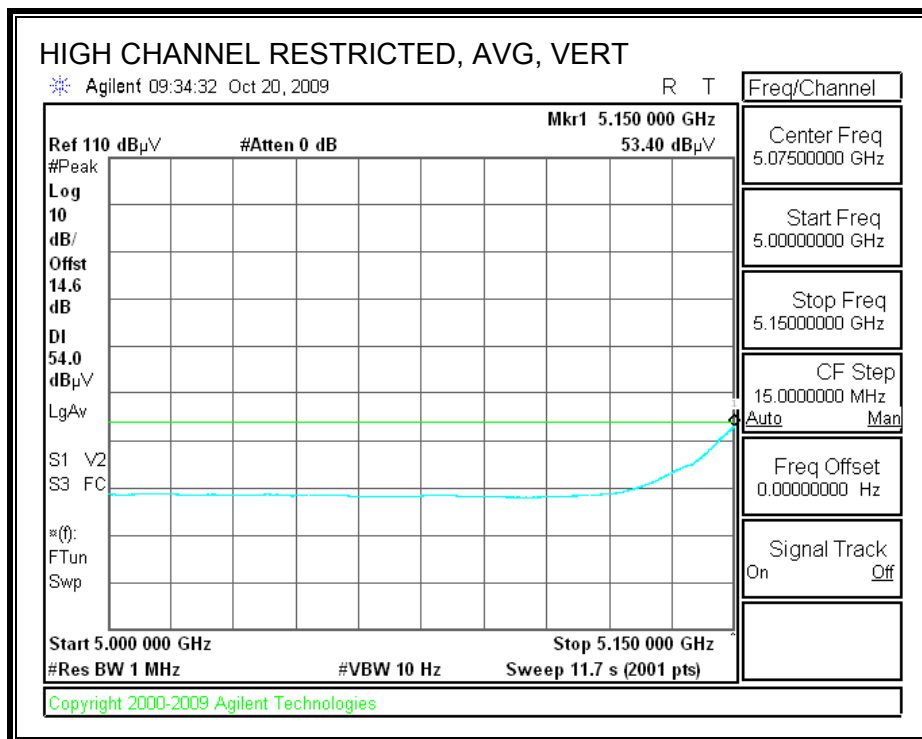
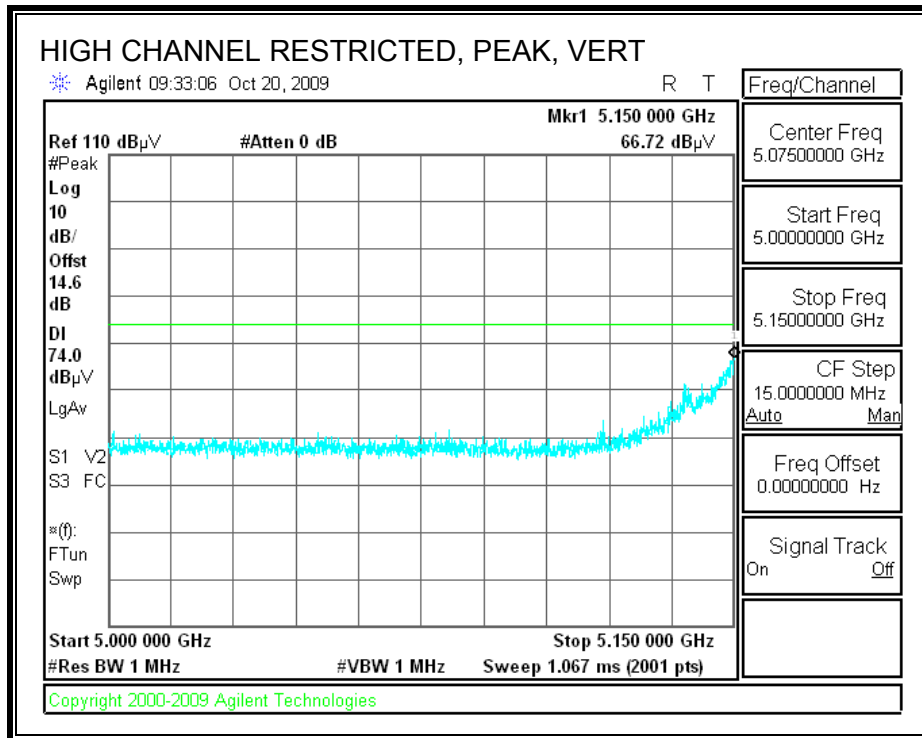


8.3.3. 802.11n HT40 MODE IN THE UPPER 5.2 GHz BAND_CHAIN A

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

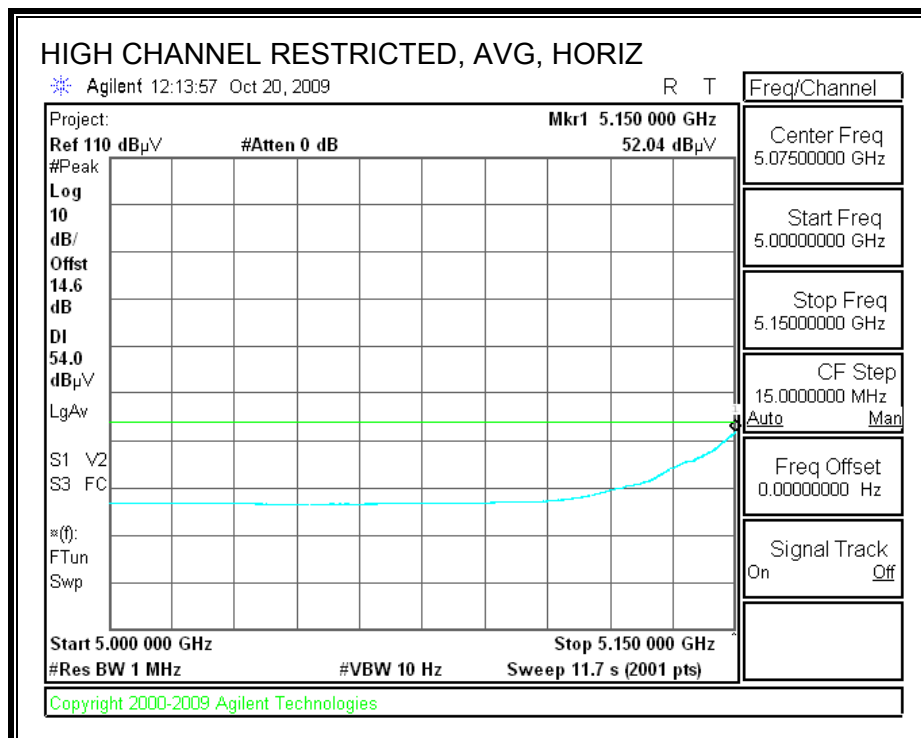
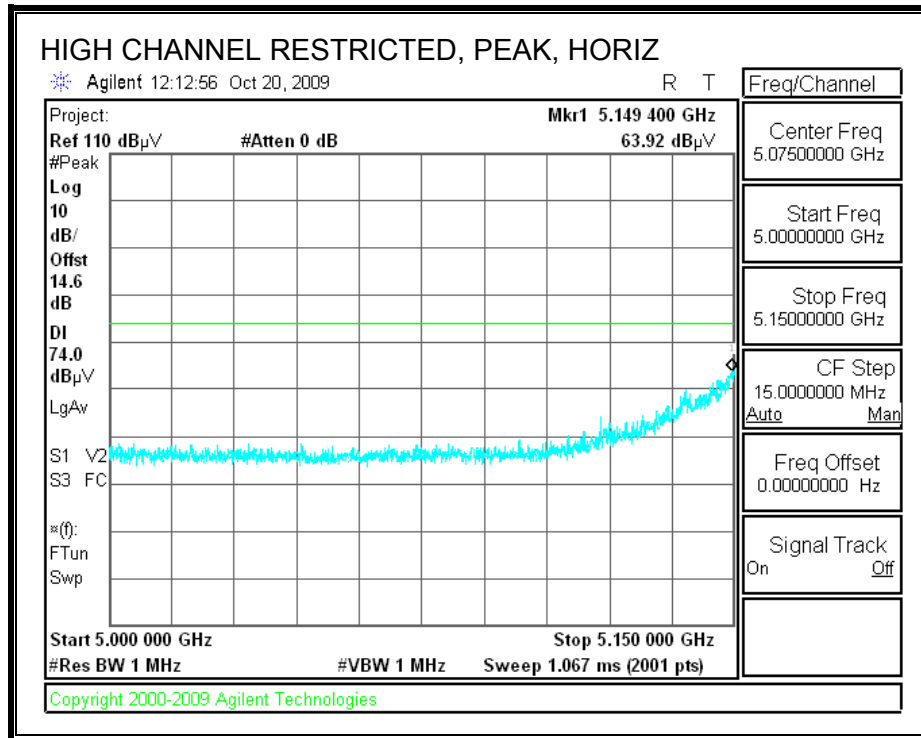


RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

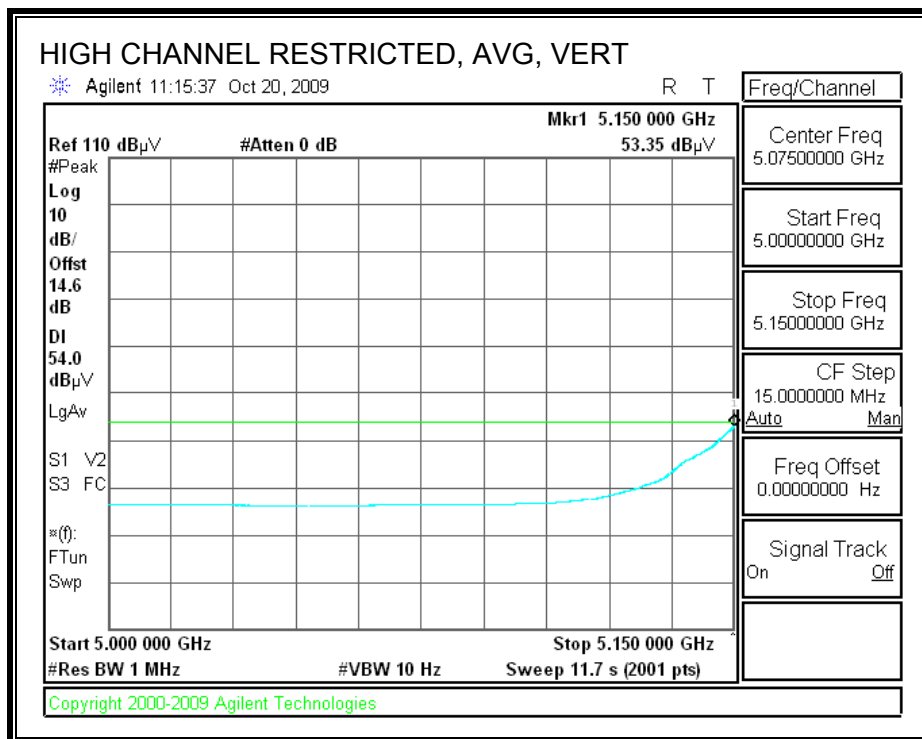
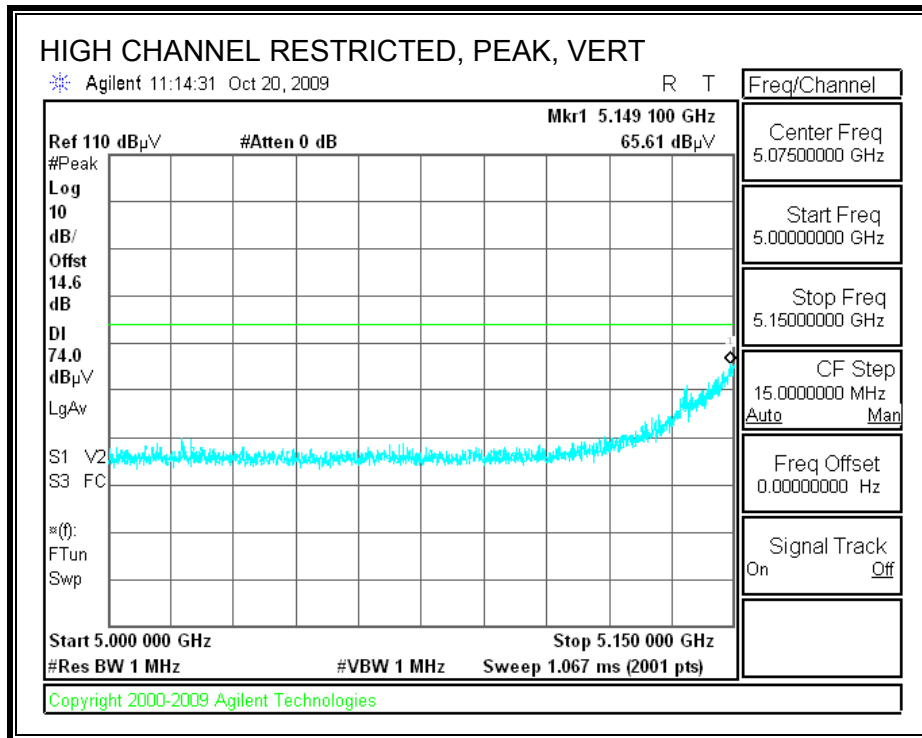


8.3.4. 802.11n HT40 MODE IN THE UPPER 5.2 GHz BAND_CHAIN B

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

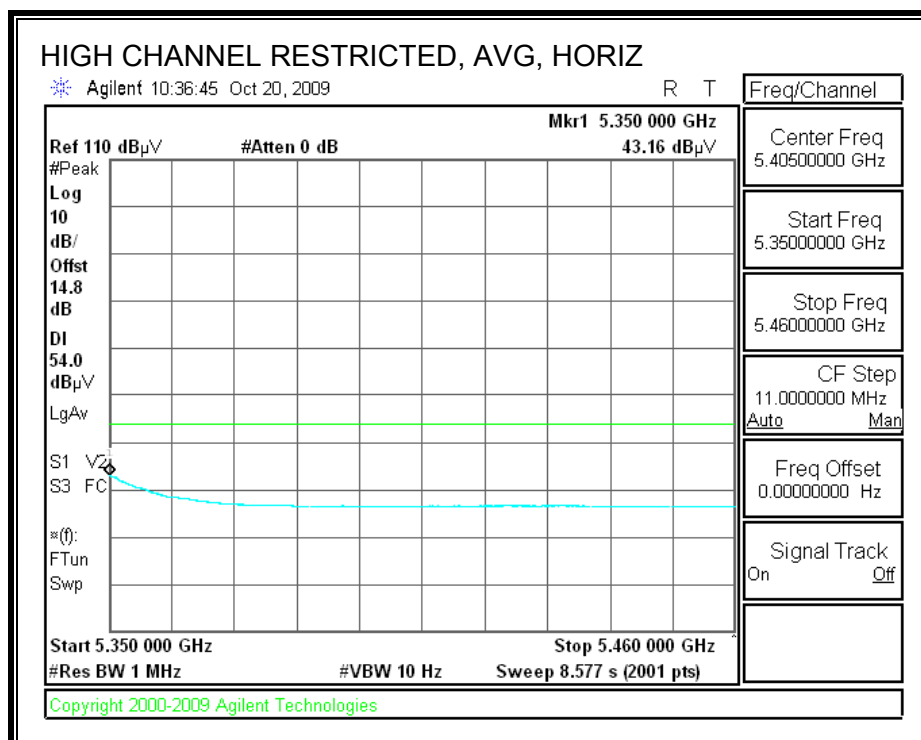
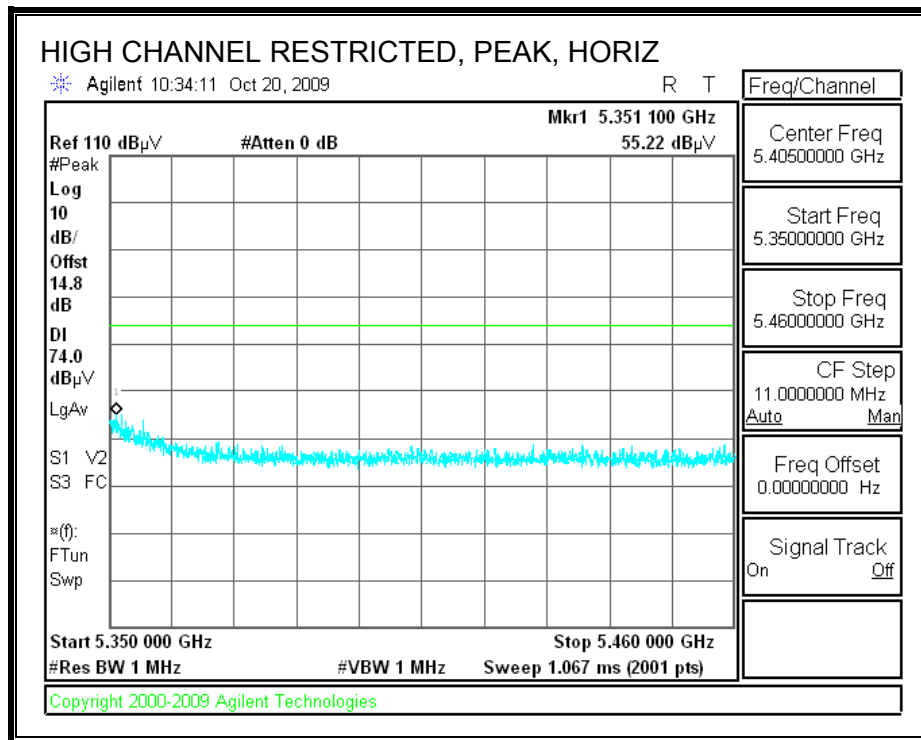


RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

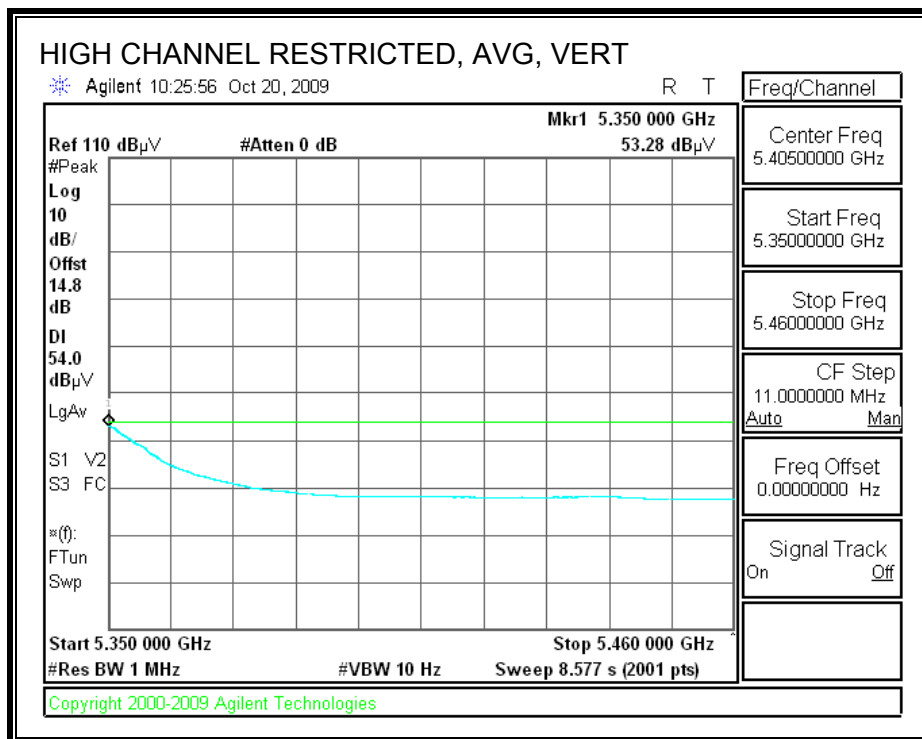
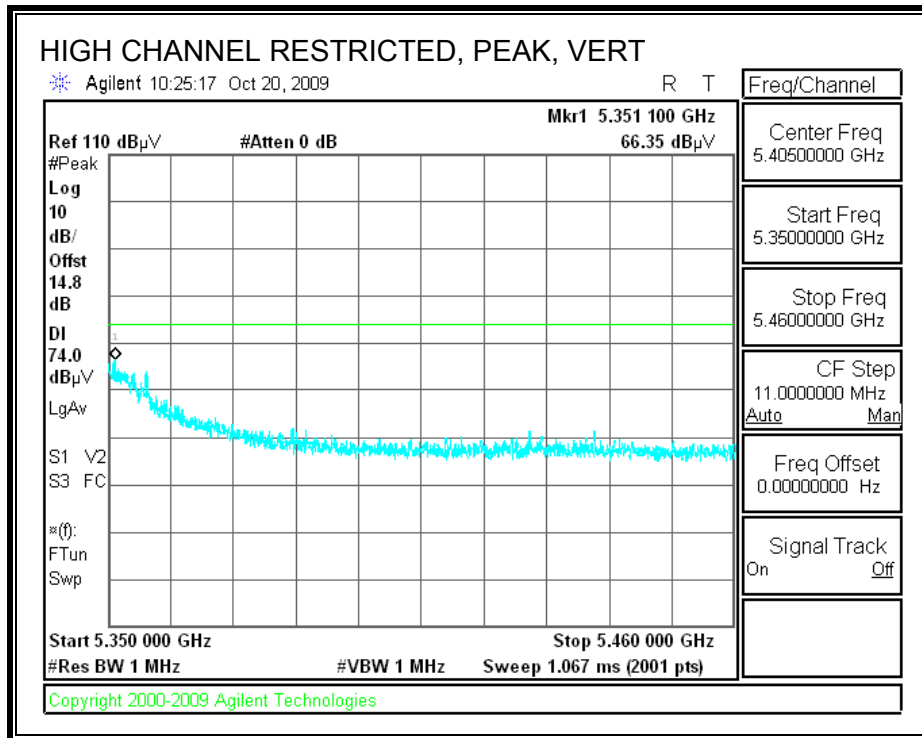


8.3.5. 802.11n HT40 MODE IN THE UPPER 5.3 GHz BAND_CHAIN A

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

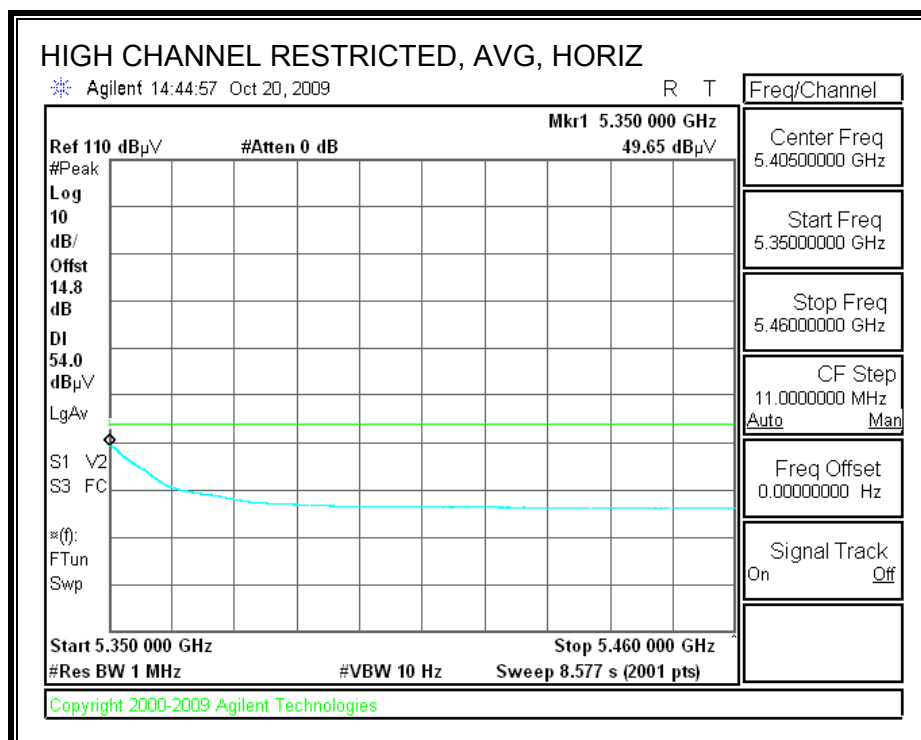
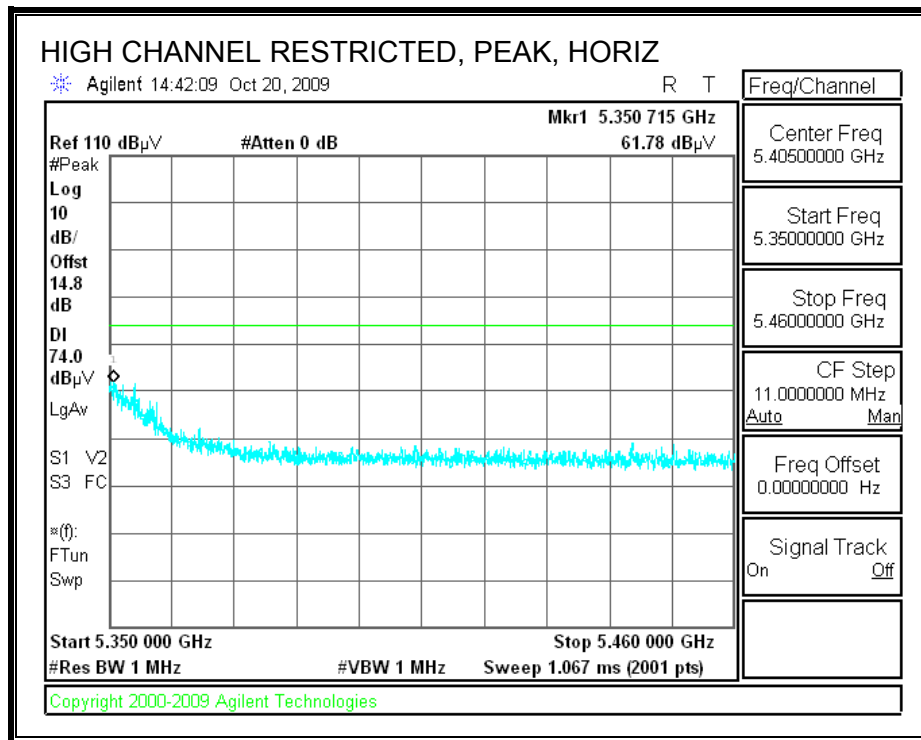


RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

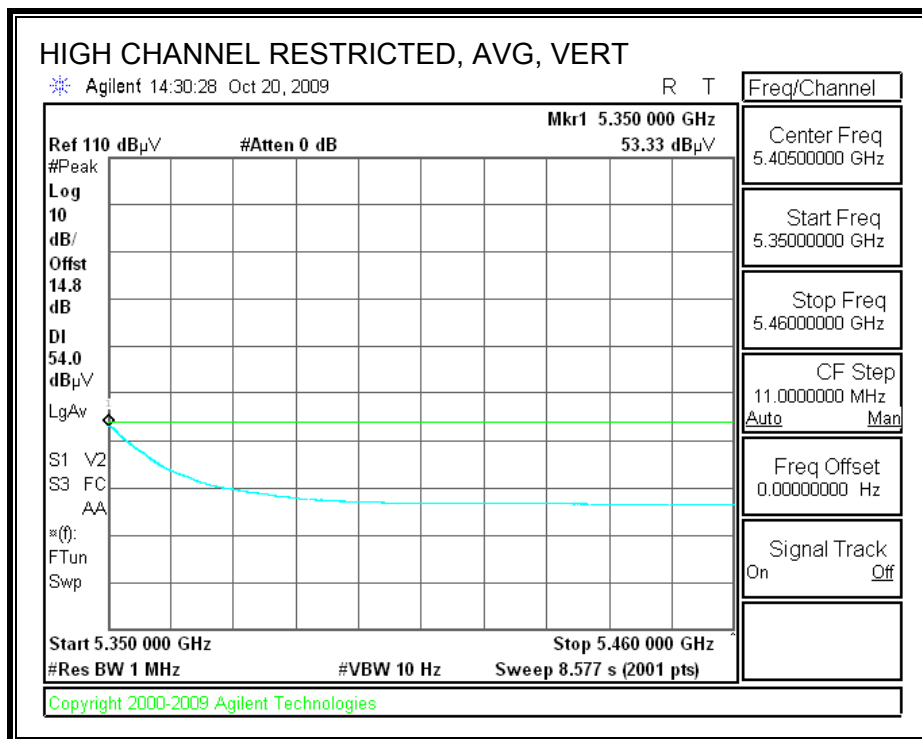
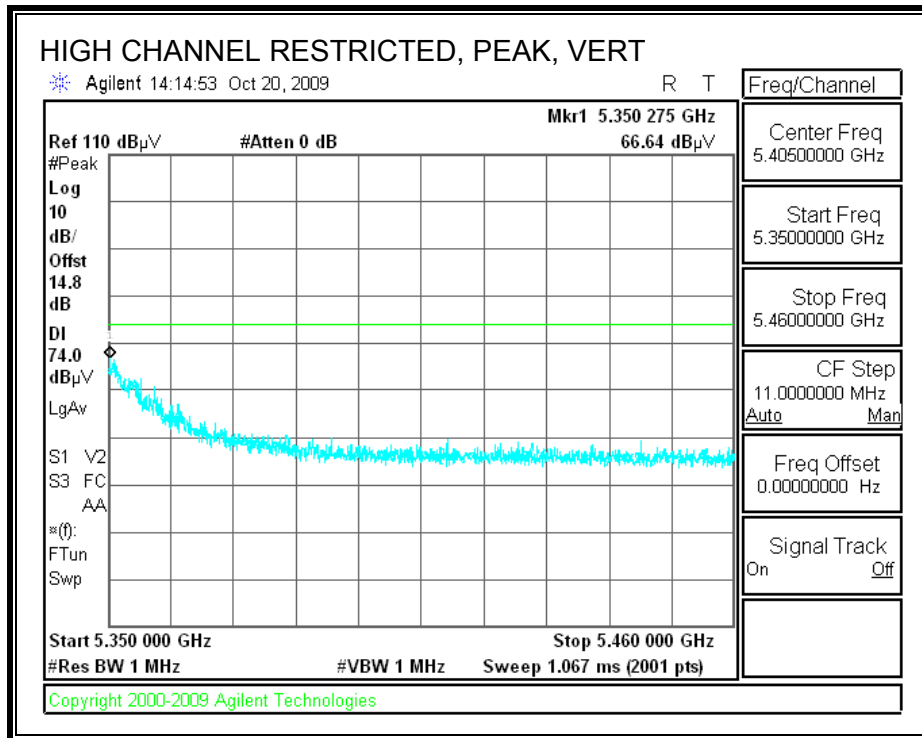


8.3.6. 802.11n HT40 MODE IN THE UPPER 5.3 GHz BAND_CHAIN B

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

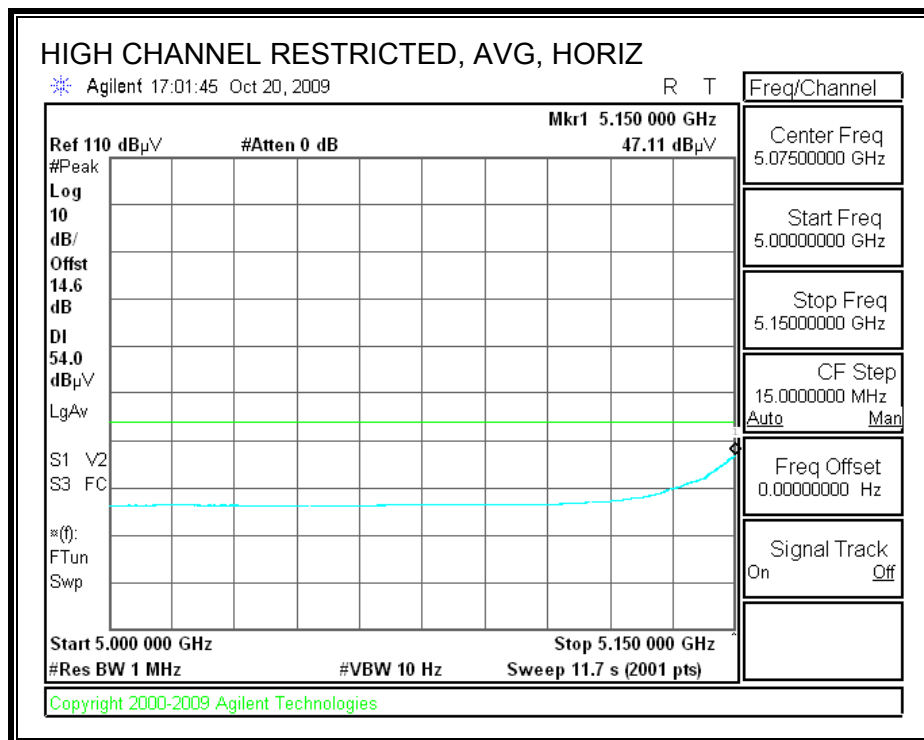
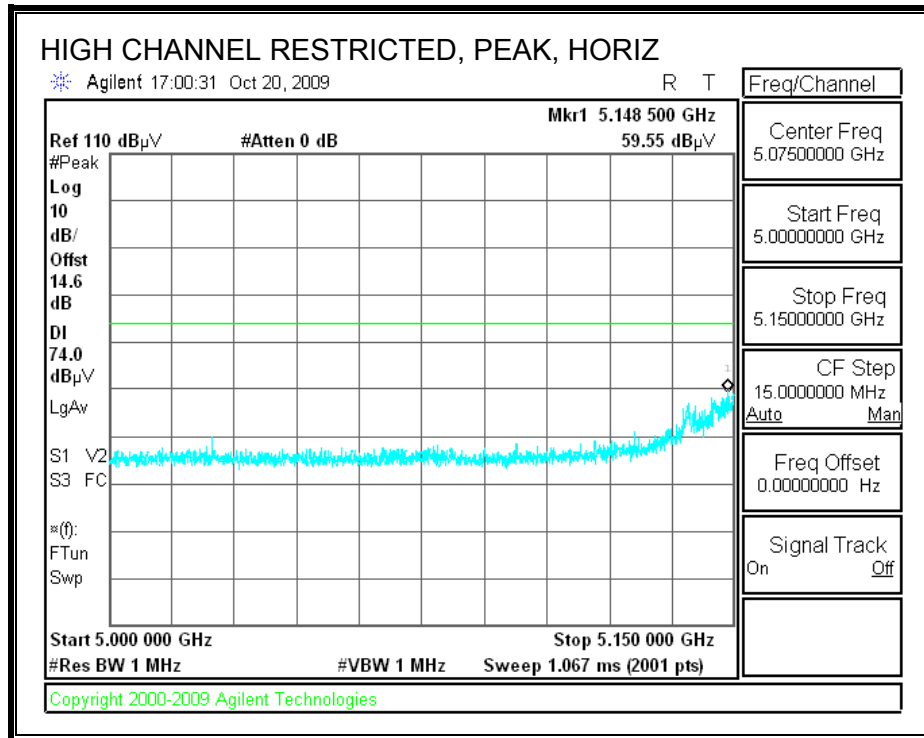


RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

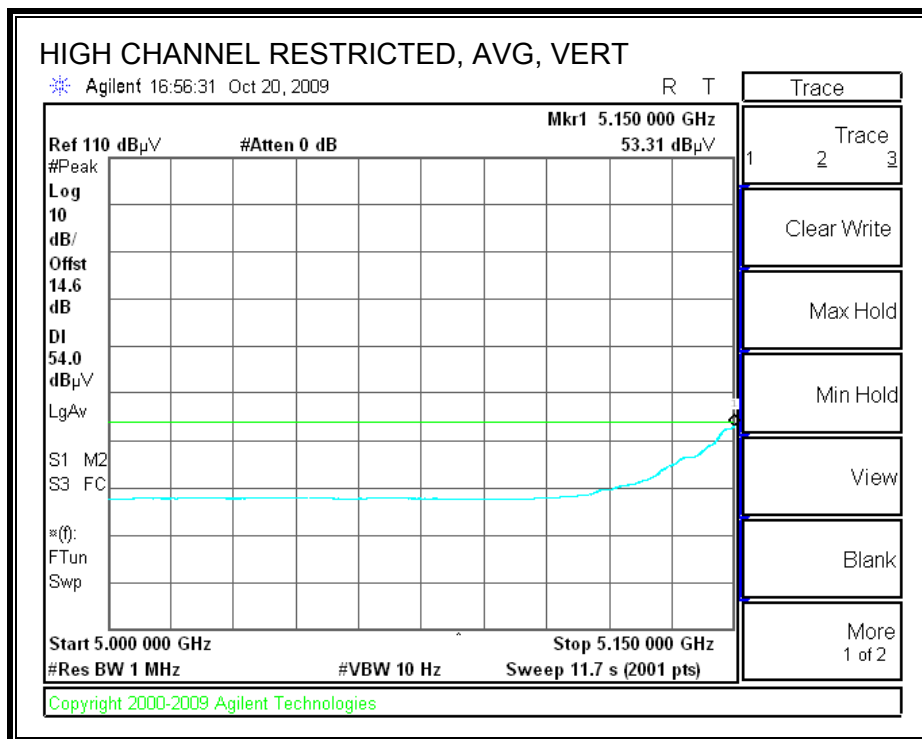
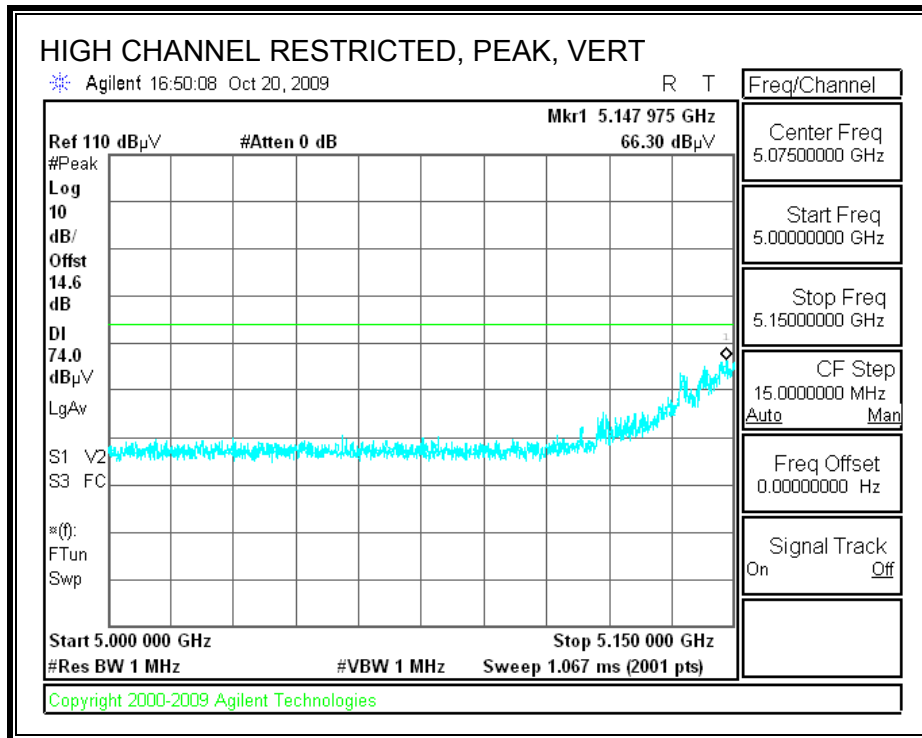


8.3.7. 802.11n HT40 MODE IN THE UPPER 5.2 GHz BAND_CHAIN A+B

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



8.4. RECEIVER ABOVE 1 GHz

High Frequency Measurement

Compliance Certification Services, Fremont 5m Chamber

Test Engr: Vien Tran
 Date: 10/13/09
 Project #: 09U12796
 Company: Intel
 EUT Description: Intel® Centrino® Advanced-N 6200 (Tested Inside Of Lenovo ThinkPad X200/X201 Tablet Series)
 EUT M/N: 622ANHMW
 Test Target: FCC B
 Mode Oper: Rx in 5GHz Band_Worst-Case

Test Equipment:

Horn 1-18GHz	Pre-amplifer 1-26GHz	Pre-amplifer 26-40GHz	Horn > 18GHz	Limit
T60; S/N: 2238 @3m	T34 HP 8449B			RX RSS 210

Hi Frequency Cables

3' cable 22807700	12' cable 22807600	20' cable 22807500	HPF	Reject Filter	Peak Measurements RBW=VBW=1MHz
3' cable 22807700	12' cable 22807600	20' cable 22807500			Average Measurements RBW=1MHz ; VBW=10Hz

f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Flt dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
1.760	3.0	54.5	34.8	27.0	3.2	-37.2	0.0	0.0	47.5	27.8	74	54	-26.5	-26.2	V
2.400	3.0	48.6	30.9	28.0	3.8	-36.3	0.0	0.0	44.1	26.4	74	54	-29.9	-27.6	V
2.493	3.0	47.9	31.9	28.3	3.9	-36.3	0.0	0.0	43.8	27.8	74	54	-30.2	-26.2	V
1.440	3.0	57.2	36.3	25.9	2.9	-37.7	0.0	0.0	48.3	27.4	74	54	-25.7	-26.6	H
2.133	3.0	49.3	33.5	27.9	3.6	-36.7	0.0	0.0	44.1	28.3	74	54	-29.9	-25.7	H
2.493	3.0	49.0	32.2	28.3	3.9	-36.3	0.0	0.0	44.9	28.1	74	54	-29.1	-25.9	H

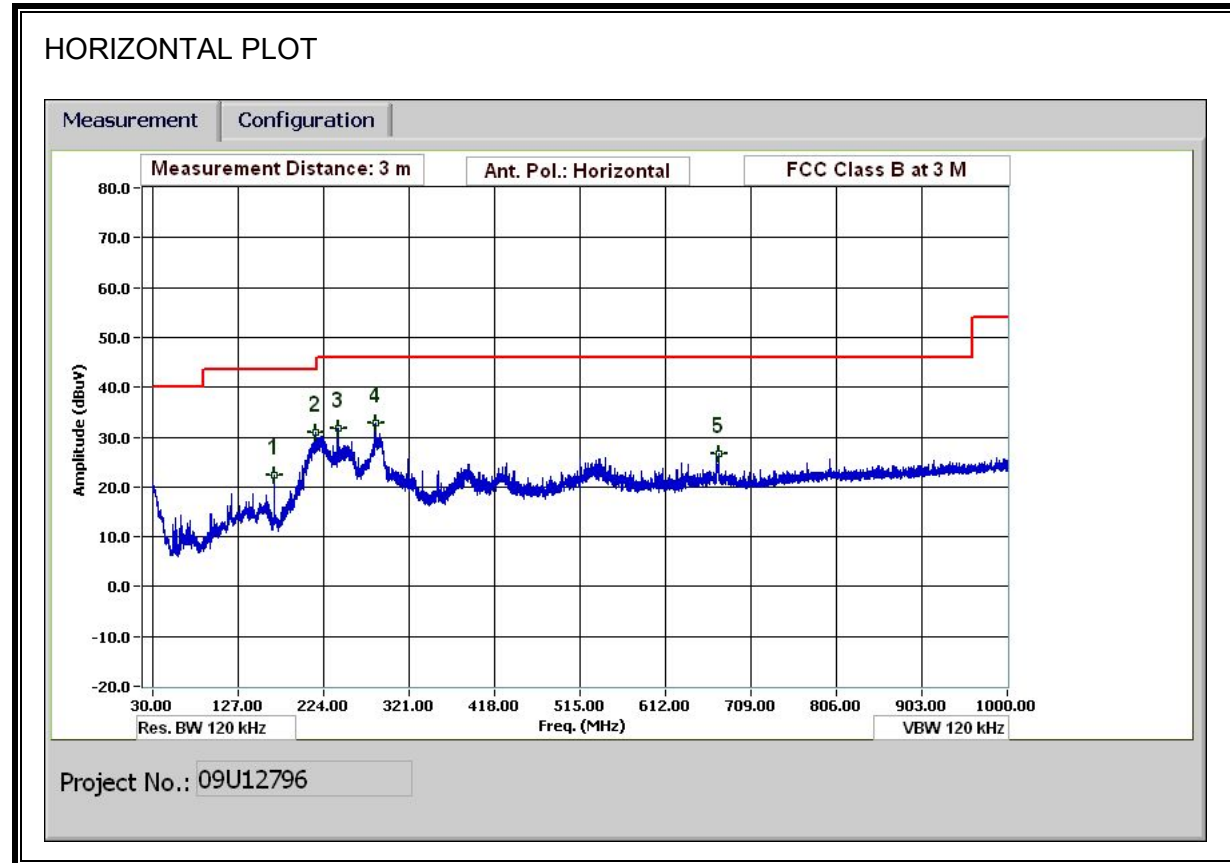
No other emission were detected above system noise floor

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

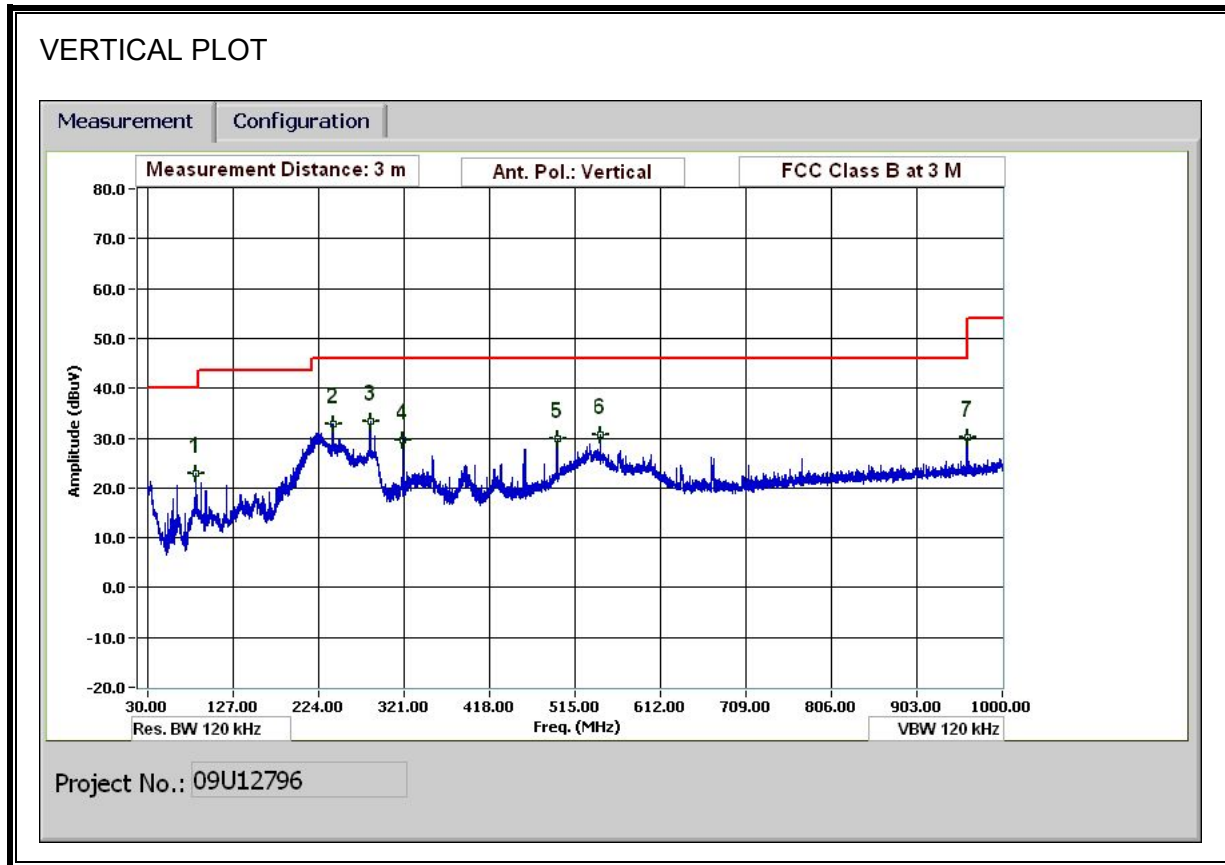
8.5. WORST CASE BELOW 1 GHz

ACON ANTENNA

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)



SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)



HORIZONTAL AND VERTICAL DATA

30-1000MHz Frequency Measurement													
Compliance Certification Services, Fremont 5m Chamber													
Test Engr:		MENGISTU MEKURIA											
Date:		11/18/09											
Project #:		09U12796											
Company:		INTEL											
EUT Description:		2x2 WLAN CARD N 6200 INSTALED INSIDE LENOVO LAPTOP											
EUT M/N:		ACON ANTENNA											
Test Target:		FCC CLASS B											
Mode Oper:		TX IN 5 GHz BAND											
f	Measurement Frequency	Amp	Preamp Gain	Margin	Margin vs. Limit								
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters										
Read	Analyzer Reading	Filter	Filter Insert Loss										
AF	Antenna Factor	Corr.	Calculated Field Strength										
CL	Cable Loss	Limit	Field Strength Limit										
f MHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filter dB	Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant. Pol. V/H	Det. P/A/QP	Notes
84.362	3.0	44.2	7.5	0.8	29.6	0.0	0.0	23.0	40.0	-17.0	V	P	
240.009	3.0	48.5	11.8	1.4	28.8	0.0	0.0	32.9	46.0	-13.1	V	P	
283.090	3.0	47.7	12.8	1.5	28.8	0.0	0.0	33.3	46.0	-12.7	V	P	
320.052	3.0	43.3	13.6	1.7	28.9	0.0	0.0	29.7	46.0	-16.3	V	P	
495.499	3.0	40.7	16.7	2.1	29.7	0.0	0.0	29.9	46.0	-16.1	V	P	
544.101	3.0	40.6	17.4	2.2	29.7	0.0	0.0	30.6	46.0	-15.4	V	P	
214.808	3.0	46.5	11.9	1.3	28.9	0.0	0.0	30.9	43.5	-12.6	H	P	
240.009	3.0	47.4	11.8	1.4	28.8	0.0	0.0	31.8	46.0	-14.2	H	P	
282.730	3.0	47.4	12.8	1.5	28.8	0.0	0.0	32.9	46.0	-13.1	H	P	
672.386	3.0	34.6	19.0	2.5	29.6	0.0	0.0	26.5	46.0	-19.5	H	P	

Rev. 1.27.09
 Note: No other emissions were detected above the system noise floor.

9. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 7.2.2

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

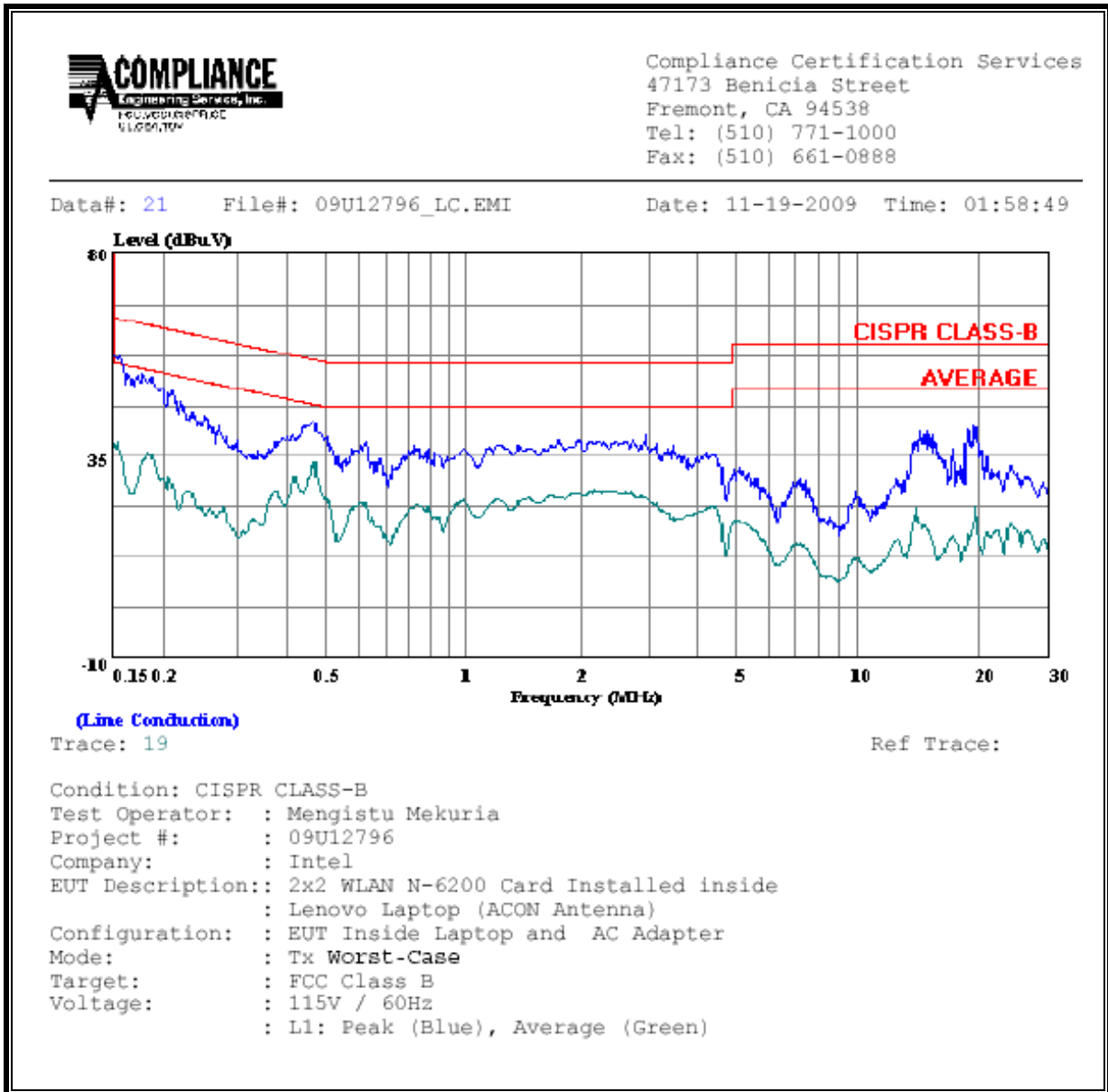
ANSI C63.4

RESULTS

6 WORST EMISSIONS

CONDUCTED EMISSIONS DATA (115VAC 60Hz)									
Freq. (MHz)	Reading			Class (dB)	Limit QP	EN B AV	Margin		Remark L1 / L2
	PK (dBuV)	QP (dBuV)	AV (dBuV)				QP (dB)	AV (dB)	
0.15	57.47	--	38.26	0.00	66.00	56.00	-8.53	-17.74	L1
0.46	42.58	--	33.59	0.00	56.62	46.62	-14.04	-13.03	L1
19.53	41.94	--	24.05	0.00	60.00	50.00	-18.06	-25.95	L1
0.15	55.28	--	36.20	0.00	65.89	55.89	-10.61	-19.69	L2
0.47	42.80	--	33.77	0.00	56.58	46.58	-13.78	-12.81	L2
19.53	43.71	--	23.51	0.00	60.00	50.00	-16.29	-26.49	L2
6 Worst Data									

LINE 1 RESULTS



LINE 2 RESULTS

