



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

CERTIFICATION TEST REPORT

FOR

WIFI 802.11abgn 3X3 MODULE

(Tested with external AP-AUGMENTIX antenna on XT2 XFR Dell Host Tablet)

MODEL NUMBER: 553AN_HMW

FCC ID: E2K533ANH

IC: 1514B-533ANH

REPORT NUMBER: 09U13006-1

ISSUE DATE: JANUARY 6, 2010

Prepared for
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NVLAP®

NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	01/06/10	Initial Issue	T. Chan

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Dell Inc.
ONE DELL WAY
ROUND ROCK, TEXAS 78682, U.S.A.

EUT DESCRIPTION: WIFI 802.11abgn 3x3 MODULE
(Tested with external AP-AUGMENTIX antenna on XT2 XFR
Dell Host Tablet)

MODEL NUMBER: 533AN_HMW

SERIAL NUMBER: 02124

DATE TESTED: JANUARY 5 – 6, 2010

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass
INDUSTRY CANADA RSS-210 Issue 7 Annex 8	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:



THU CHAN
EMC MANAGER
COMPLIANCE CERTIFICATION SERVICES

Tested By:



TOM CHEN
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 an 802.11abgn 3x3 transceiver module.

The radio module is manufactured by Intel Corporation.

5.2. MAXIMUM OUTPUT POWER

The test measurement passed within $\pm 0.5\text{dBm}$ of the original output power.

5.3. DESCRIPTION OF CLASS II PERMISSIVE CHANGE

The major change filed under this application is adding an external AP-AUGMENTIX antenna to XT2 XFR Dell host tablet.

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an external AP-AUGMENTIX antenna, with a maximum gain of 3 dBi.

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 normal docking station vehicle with external auxiliary antenna at transmitting mode.

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

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
Tablet	Dell	XT2 XFR	UNIT# 3	DoC
AC/DC	Dell	LA65NS0-00	CN-0DF263-3DC3	DoC
AP QUAD Ant	Ant.Plus LLC	AP-AUGMENTIX	None	N/A

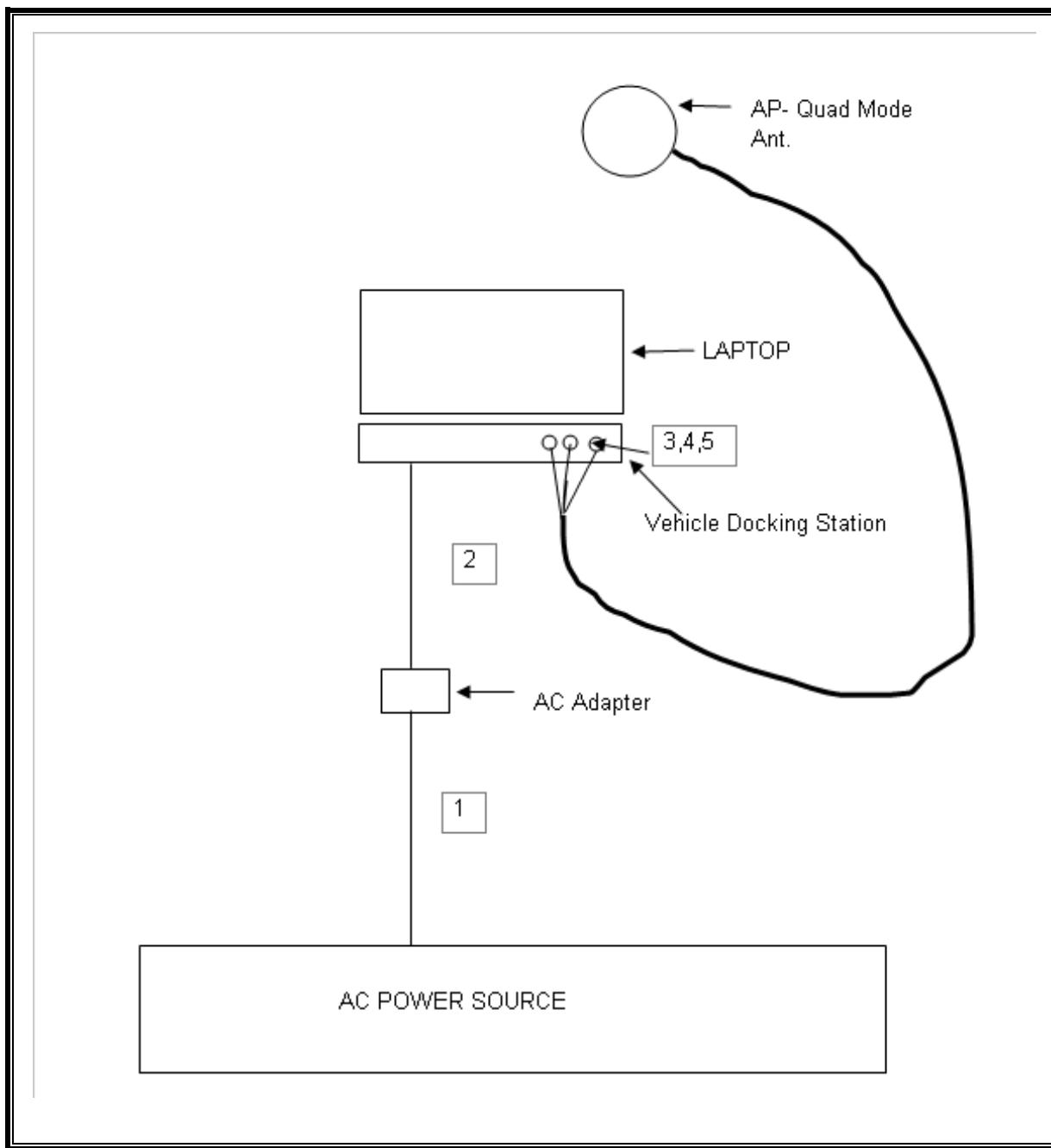
I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	AC	1	AC	Un-Shielded	1.8 m	N/A
2	DC	1	DC	Un-Shielded	1.8 m	N/A
3	WIFI	1	TNC	Shieled	5 m	N/A
4	GPS	1	TNC	Shieled	5 m	N/A
5	WWAN	1	TNC	Shieled	5 m	N/A

TEST SETUP

The EUT is installed inside host tablet and the host tablet is docked on vehicle docking station with an external antenna connected during the test. 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
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01011	01/14/10
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00885	03/31/10
30-2.9Ghz Bilog Ant.	EMCO	3115	C00945	04/22/10
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01052	08/05/10
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C00986	05/30/10
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
LISN, 10 kHz ~ 30 MHz	Solar	8012-50-R-24-BNC	N02481	11/06/10

7. RADIATED TEST RESULTS

7.1. 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, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

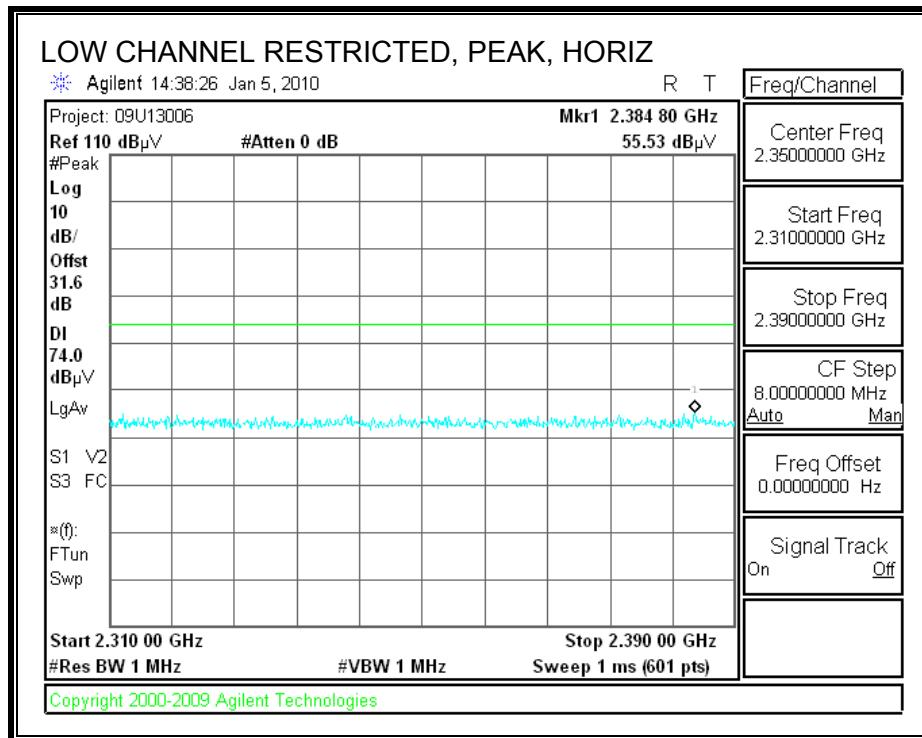
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

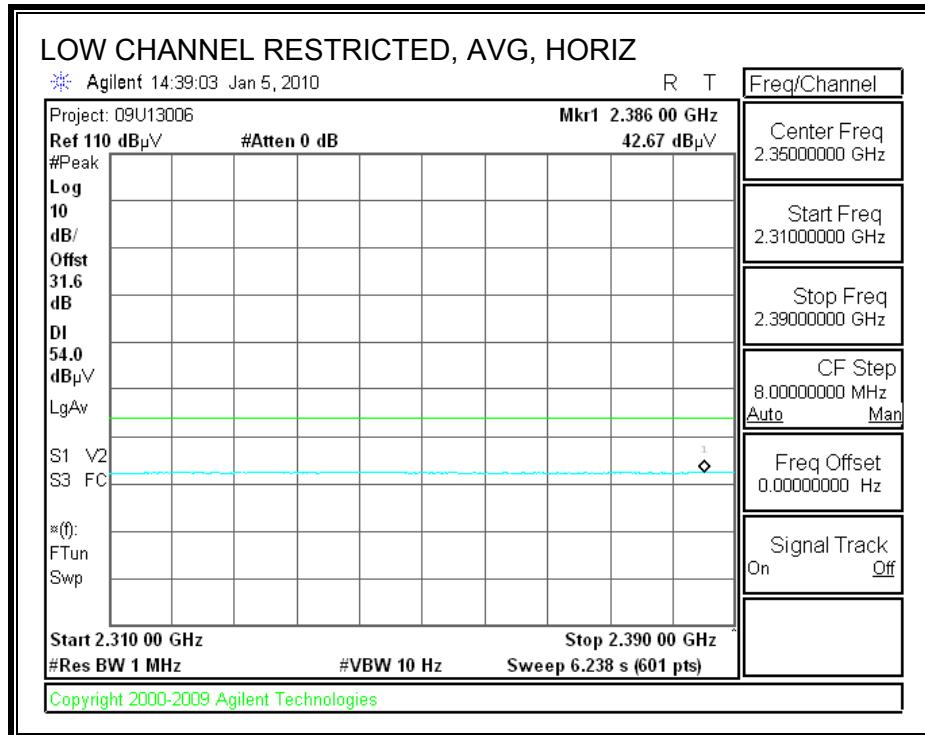
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

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.

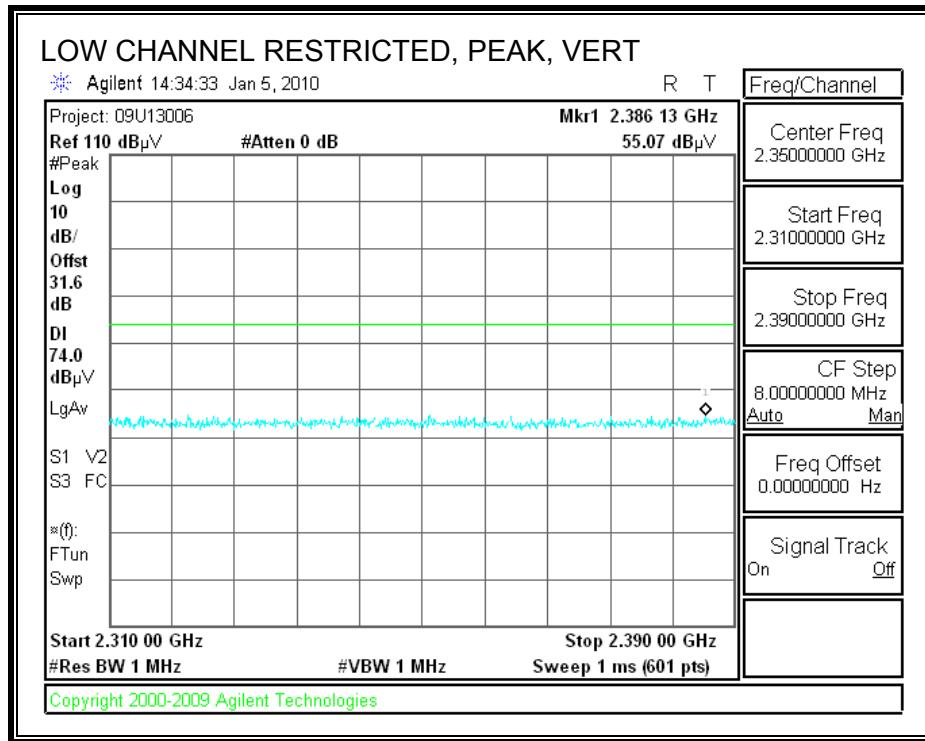
7.1.1. TRANSMITTER ABOVE 1 GHz FOR 802.11b MODE IN THE 2.4 GHz BAND

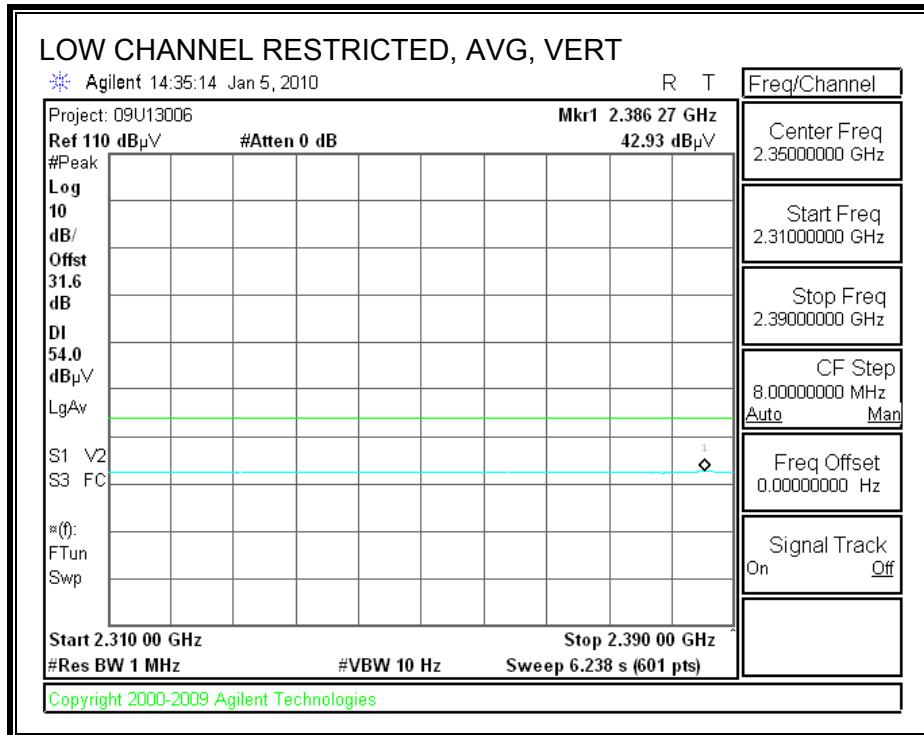
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



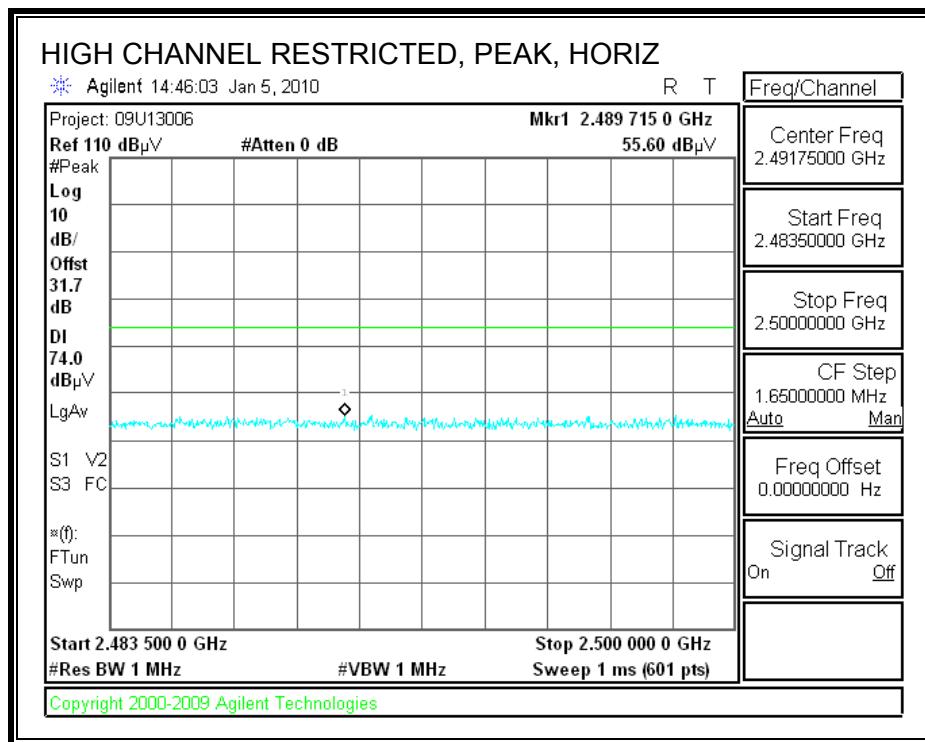


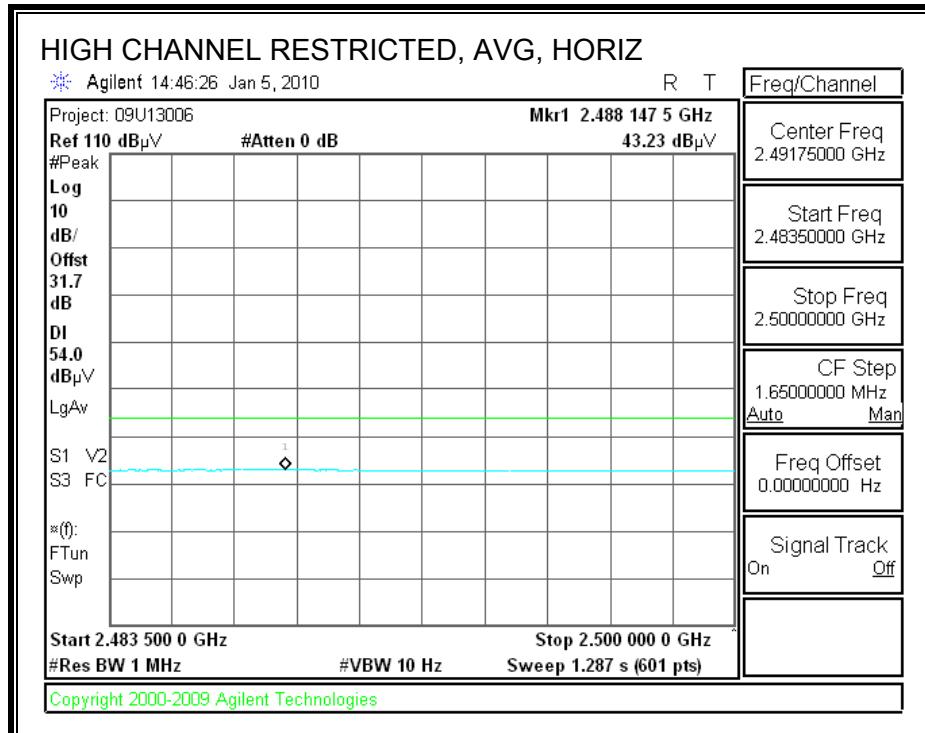
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



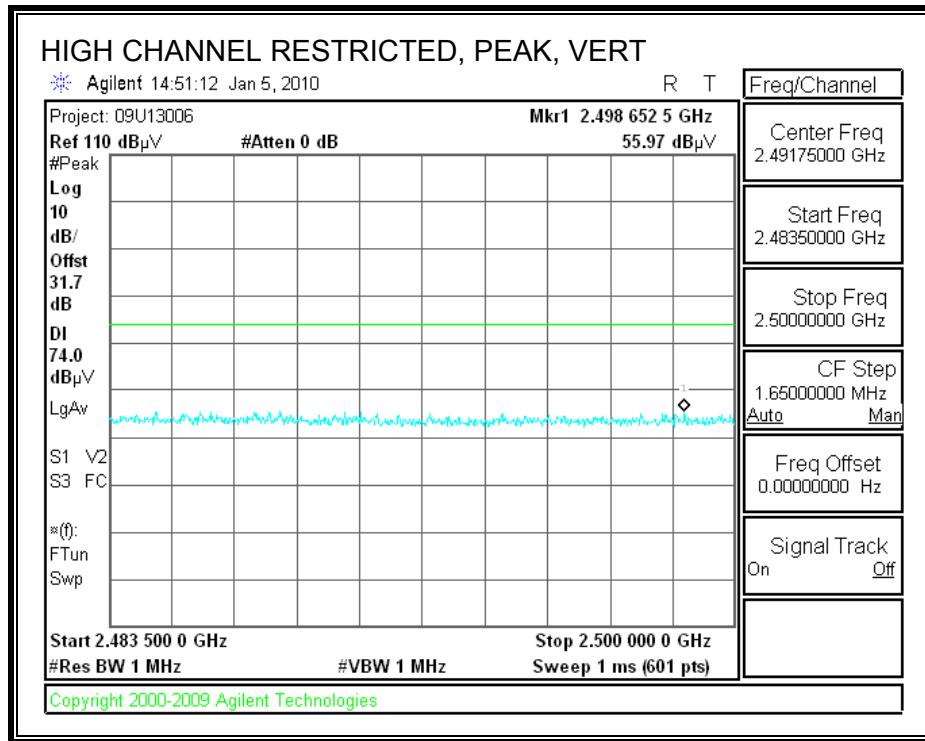


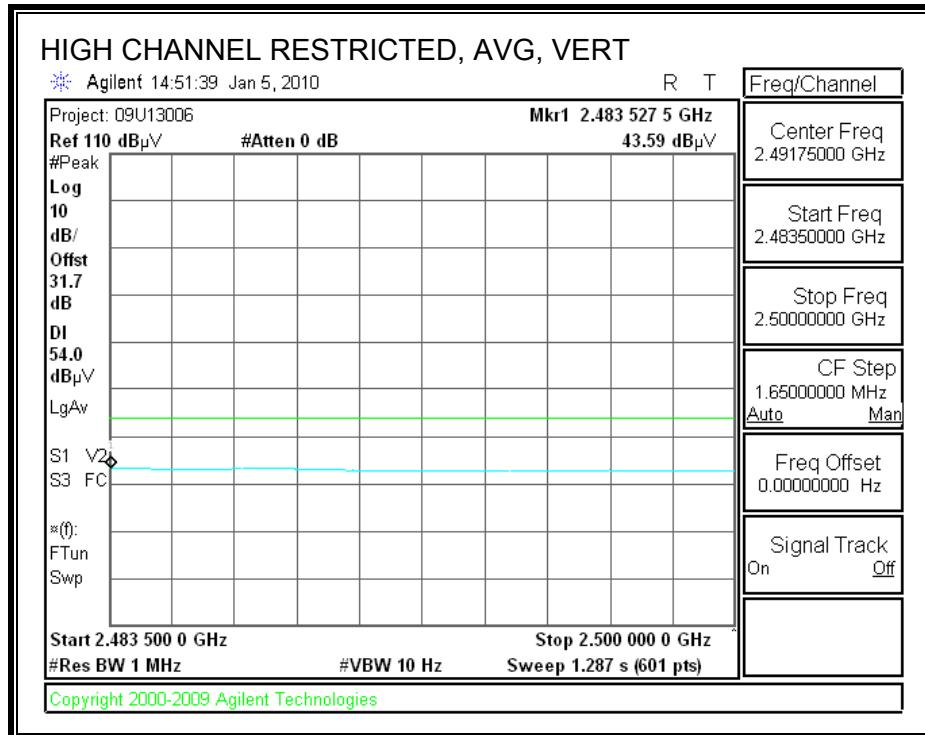
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



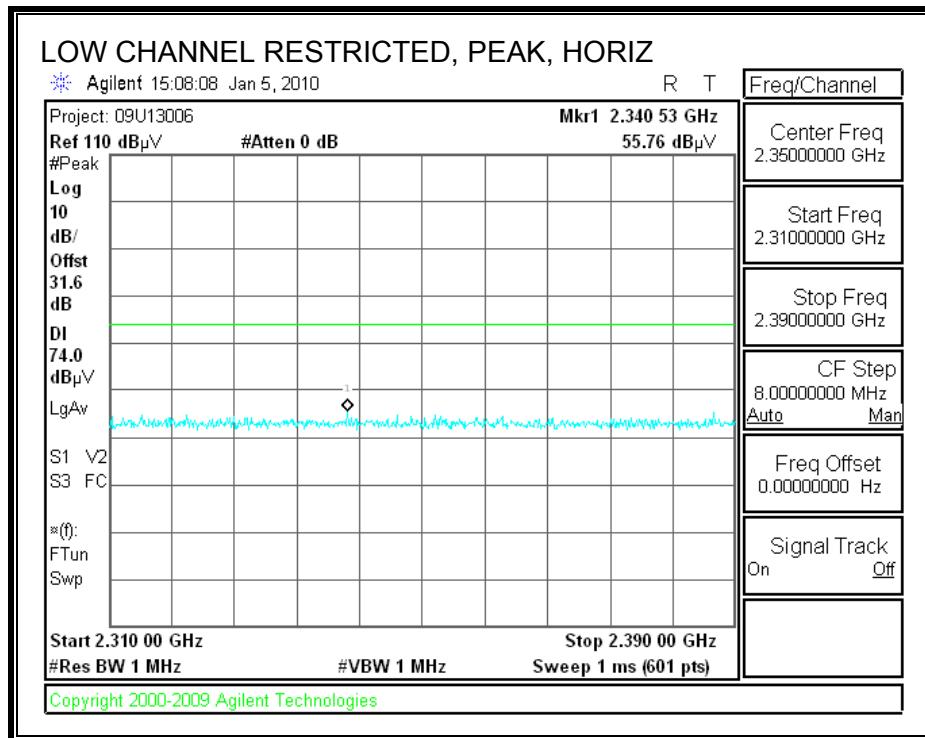


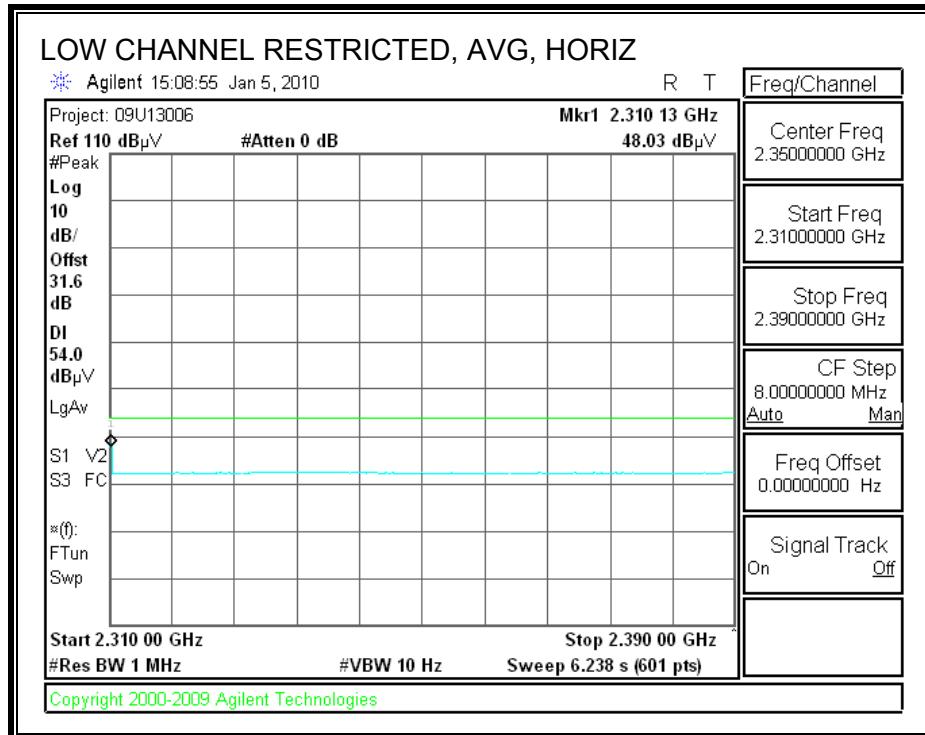
HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement Compliance Certification Services, Fremont 5m Chamber													
Test Engr:		Tom Chen											
Date:		01/05/10											
Project #:		09U13006											
Company:		INTEL											
EUT Description: EUT with Ext Antenna													
EUT M/N:													
Test Target:		FCC Class B											
Mode Oper:		TX mode											
		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	Fltr	Corr.	Limit	Margin	Ant. Pol.	Det.	Notes
GHz	(m)	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dB	V/H	P/A/QP	
b mode Low CH 2412MHz													
4.824	3.0	35.8	32.7	5.8	-34.8	0.0	0.0	39.4	74.0	-34.6	V	P	
4.824	3.0	29.4	32.7	5.8	-34.8	0.0	0.0	33.1	54.0	-20.9	V	A	
12.060	3.0	30.9	38.5	9.8	-32.5	0.0	0.0	46.7	74.0	-27.3	V	P	
12.060	3.0	18.3	38.5	9.8	-32.5	0.0	0.0	34.1	54.0	-19.9	V	A	
4.824	3.0	34.3	32.7	5.8	-34.8	0.0	0.0	38.0	74.0	-36.0	H	P	
4.824	3.0	23.6	32.7	5.8	-34.8	0.0	0.0	27.3	54.0	-26.7	H	A	
12.060	3.0	31.5	38.5	9.8	-32.5	0.0	0.0	47.3	74.0	-26.7	H	P	
12.060	3.0	19.1	38.5	9.8	-32.5	0.0	0.0	34.9	54.0	-19.1	H	A	
b mode Mid CH 2437MHz													
4.874	3.0	32.4	32.7	5.8	-34.8	0.0	0.0	36.2	74.0	-37.8	H	P	
4.874	3.0	23.1	32.7	5.8	-34.8	0.0	0.0	26.8	54.0	-27.2	H	A	
7.311	3.0	31.8	35.5	7.3	-34.1	0.0	0.0	40.4	74.0	-33.6	H	P	
7.311	3.0	19.8	35.5	7.3	-34.1	0.0	0.0	28.4	54.0	-25.6	H	A	
4.874	3.0	35.9	32.7	5.8	-34.8	0.0	0.0	39.6	74.0	-34.4	V	P	
4.874	3.0	30.5	32.7	5.8	-34.8	0.0	0.0	34.2	54.0	-19.8	V	A	
7.311	3.0	33.3	35.5	7.3	-34.1	0.0	0.0	41.9	74.0	-32.1	V	P	
7.311	3.0	19.9	35.5	7.3	-34.1	0.0	0.0	28.5	54.0	-25.5	V	A	
b mode High CH 2462MHz													
4.924	3.0	36.6	32.7	5.9	-34.8	0.0	0.0	40.4	74.0	-33.6	V	P	
4.924	3.0	31.5	32.7	5.9	-34.8	0.0	0.0	35.3	54.0	-18.7	V	A	
7.386	3.0	33.0	35.6	7.3	-34.1	0.0	0.0	41.8	74.0	-32.2	V	P	
7.386	3.0	20.2	35.6	7.3	-34.1	0.0	0.0	29.0	54.0	-25.0	V	A	
4.924	3.0	34.8	32.7	5.9	-34.8	0.0	0.0	38.6	74.0	-35.4	H	P	
4.924	3.0	28.2	32.7	5.9	-34.8	0.0	0.0	32.0	54.0	-22.0	H	A	
7.386	3.0	32.7	35.6	7.3	-34.1	0.0	0.0	41.5	74.0	-32.5	H	P	
7.386	3.0	20.3	35.6	7.3	-34.1	0.0	0.0	29.1	54.0	-24.9	H	A	
Rev. 4.1.2.7													
Note: No other emissions were detected above the system noise floor.													

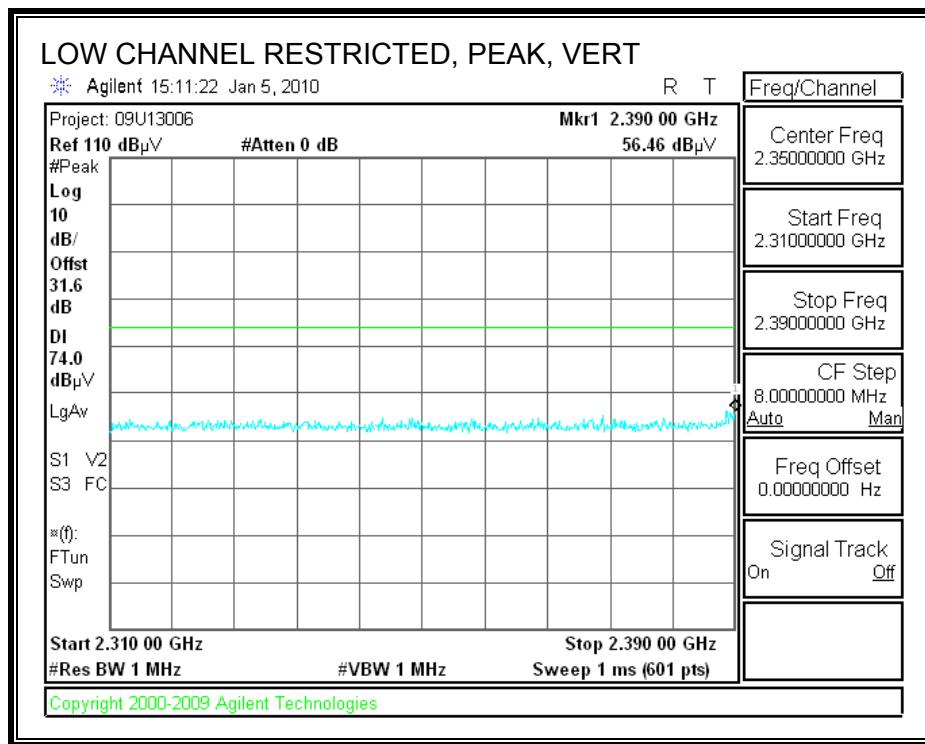
7.1.2. TRANSMITTER ABOVE 1 GHz FOR 802.11g MODE IN THE 2.4 GHz BAND

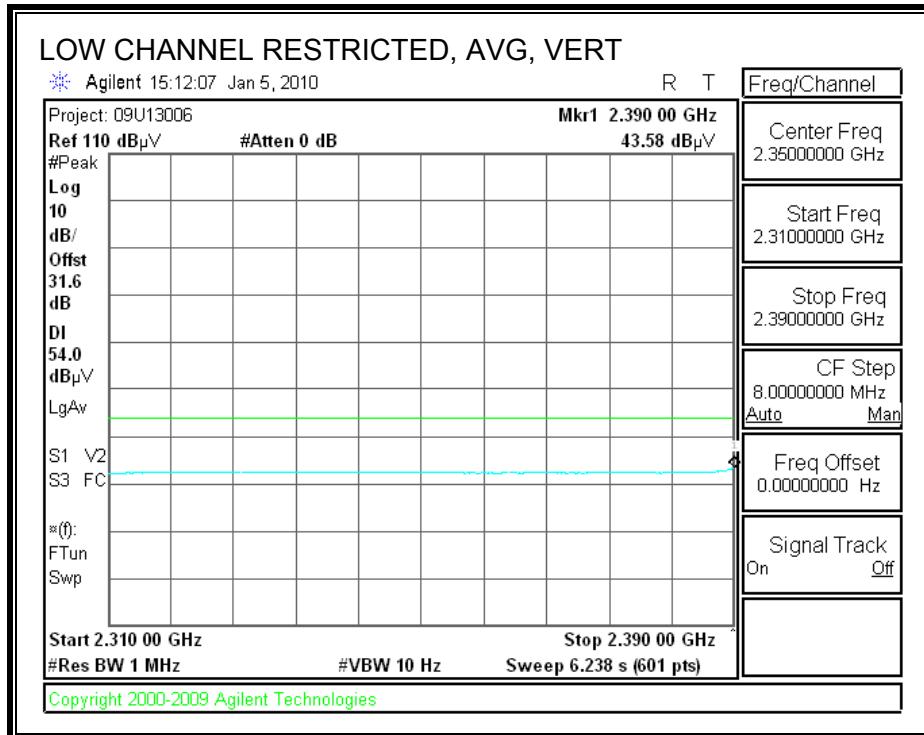
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



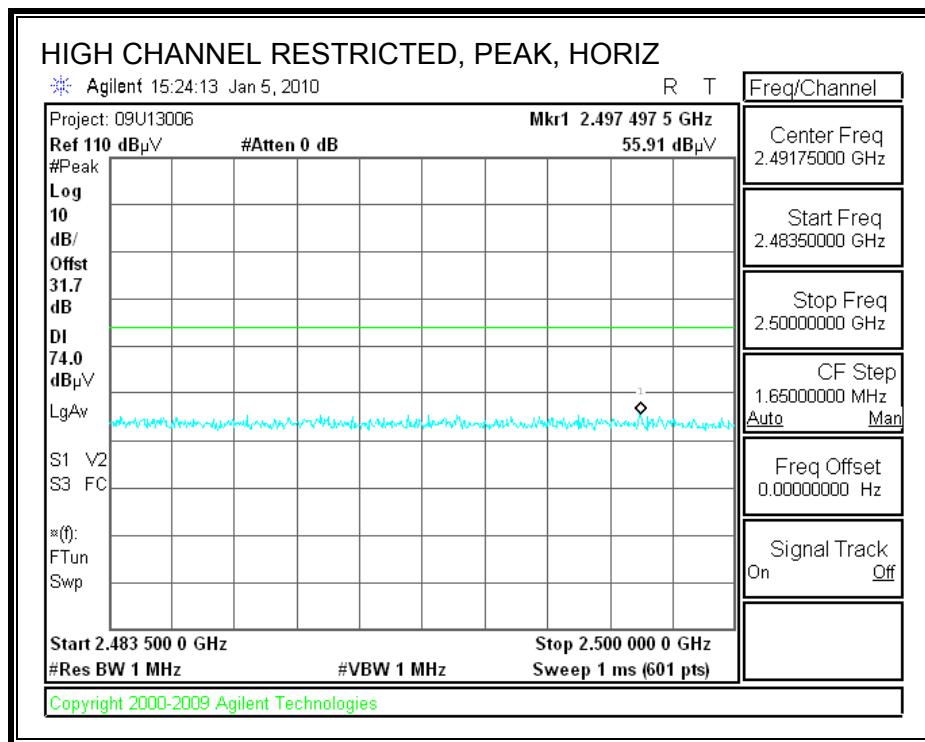


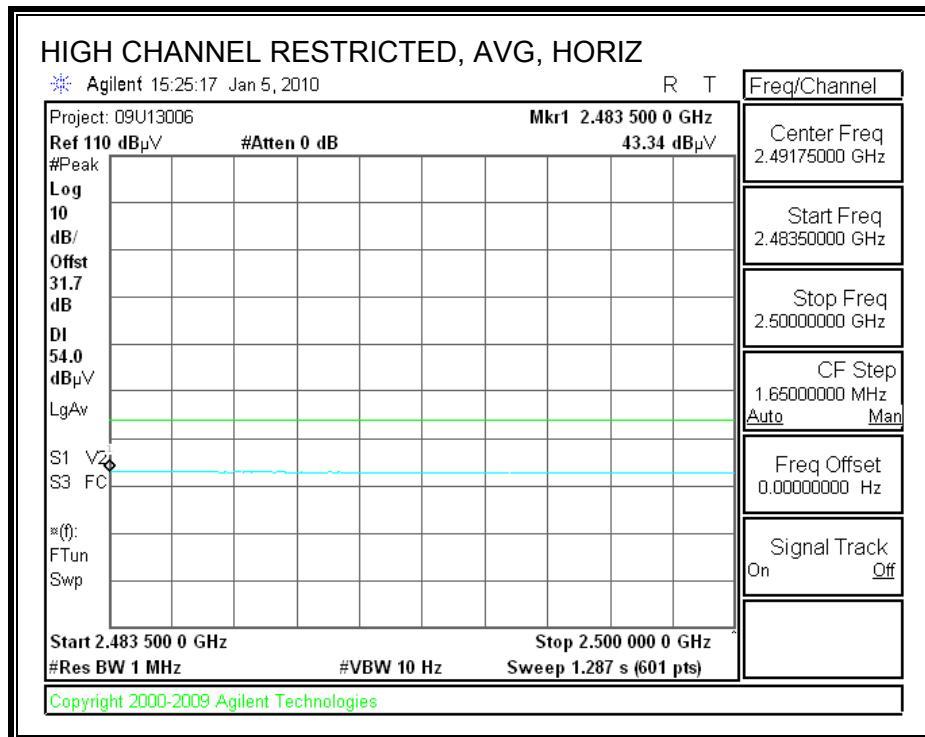
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



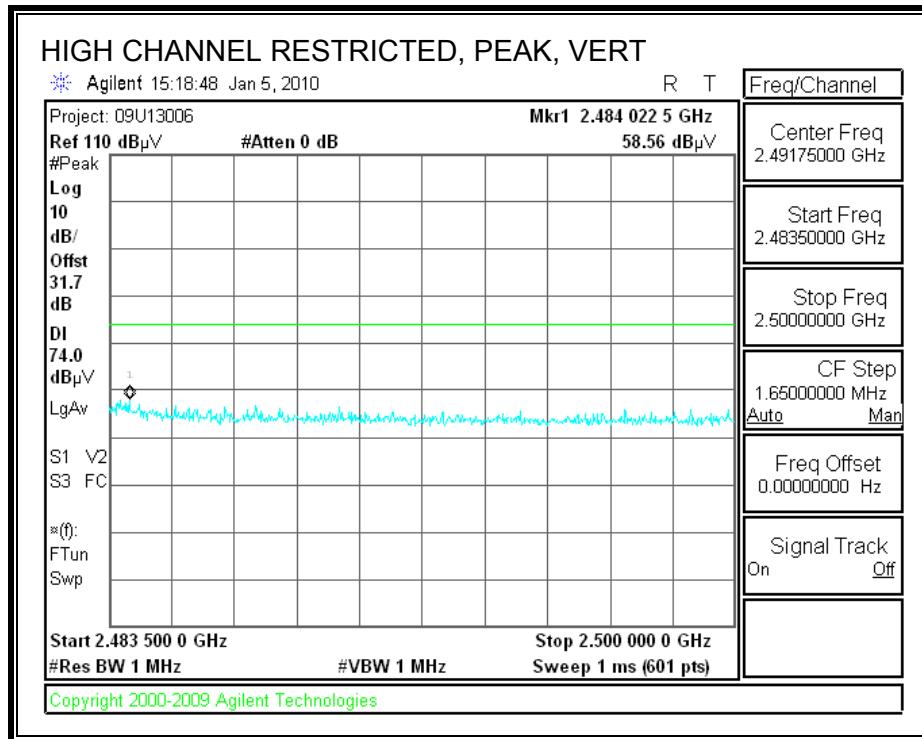


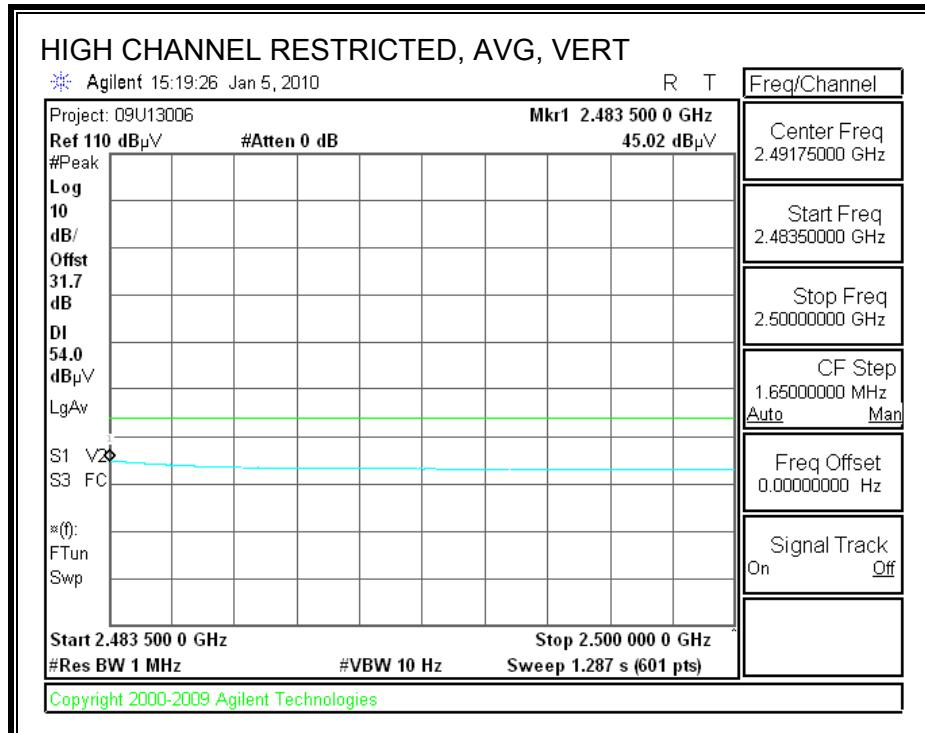
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)





HARMONICS AND SPURIOUS EMISSIONS

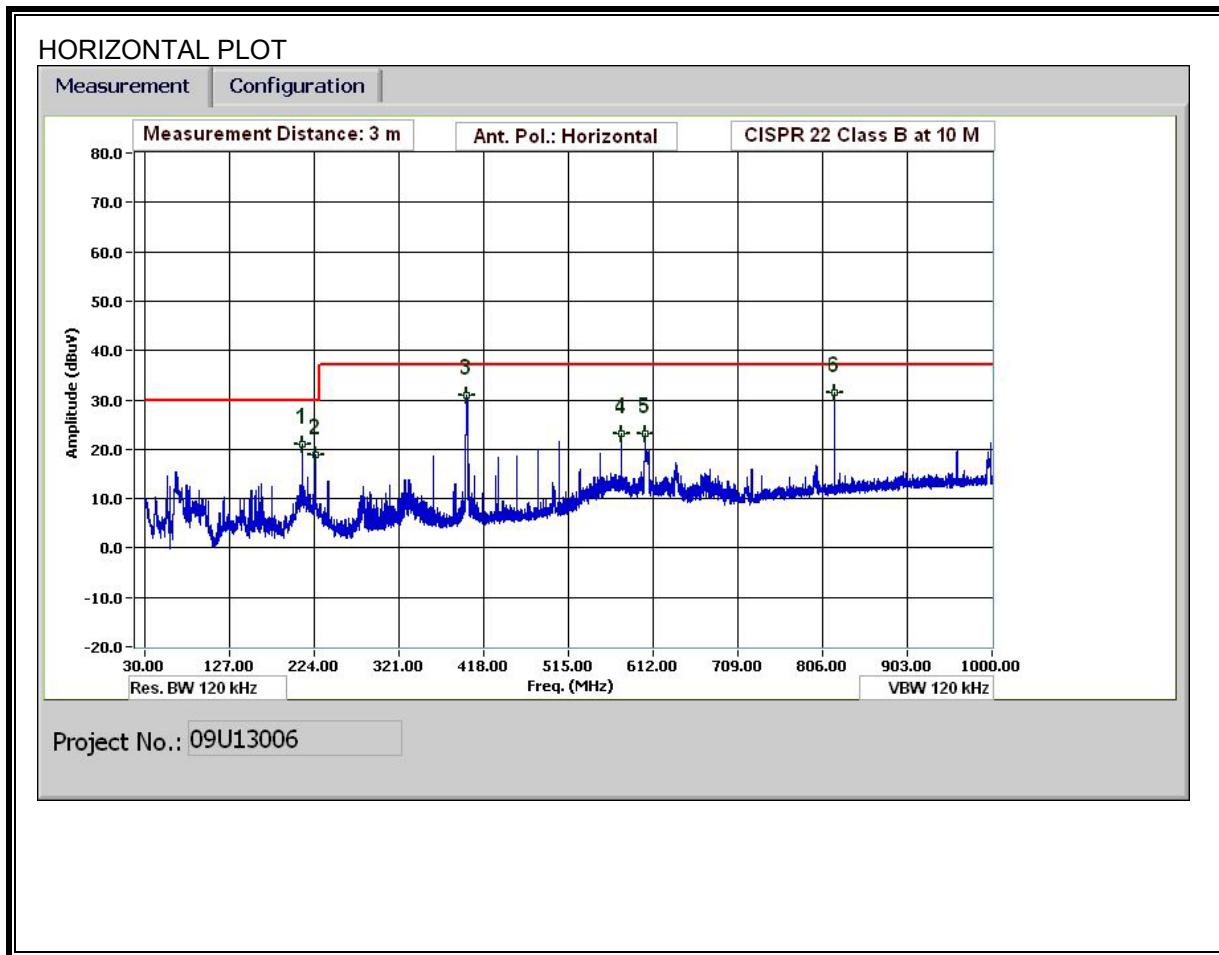
High Frequency Measurement Compliance Certification Services, Fremont 5m Chamber														
Test Engr: Tom Chen Date: 01/05/10 Project #: 09U13006 Company: INTEL EUT Description: EUT with Ext Antenna EUT M/N:														
Test Target: FCC Class B Mode Oper: TX mode														
f GHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant. Pol. V/H	Det. P/A/QP	Notes	
g mode Low CH 2412MHz														
4.824	3.0	33.5	32.7	5.8	-34.8	0.0	0.0	37.2	74.0	-36.8	V	P		
4.824	3.0	20.9	32.7	5.8	-34.8	0.0	0.0	24.5	54.0	-29.5	V	A		
12.060	3.0	30.9	38.5	9.8	-32.5	0.0	0.0	46.7	74.0	-27.3	V	P		
12.060	3.0	18.6	38.5	9.8	-32.5	0.0	0.0	34.4	54.0	-19.6	V	A		
4.824	3.0	33.8	32.7	5.8	-34.8	0.0	0.0	37.5	74.0	-36.5	H	P		
4.824	3.0	20.9	32.7	5.8	-34.8	0.0	0.0	24.6	54.0	-29.4	H	A		
12.060	3.0	30.5	38.5	9.8	-32.5	0.0	0.0	46.3	74.0	-27.7	H	P		
12.060	3.0	18.6	38.5	9.8	-32.5	0.0	0.0	34.4	54.0	-19.6	H	A		
g mode Mid CH 2437MHz														
4.874	3.0	32.5	32.7	5.8	-34.8	0.0	0.0	36.2	74.0	-37.8	H	P		
4.874	3.0	20.5	32.7	5.8	-34.8	0.0	0.0	24.2	54.0	-29.8	H	A		
7.311	3.0	36.1	35.5	7.3	-34.1	0.0	0.0	44.7	74.0	-29.3	H	P		
7.311	3.0	21.8	35.5	7.3	-34.1	0.0	0.0	30.5	54.0	-23.5	H	A		
4.874	3.0	34.3	32.7	5.8	-34.8	0.0	0.0	38.0	74.0	-36.0	V	P		
4.874	3.0	22.1	32.7	5.8	-34.8	0.0	0.0	25.8	54.0	-28.2	V	A		
7.311	3.0	37.2	35.5	7.3	-34.1	0.0	0.0	45.8	74.0	-28.2	V	P		
7.311	3.0	22.0	35.5	7.3	-34.1	0.0	0.0	30.7	54.0	-23.3	V	A		
g mode High CH 2462MHz														
4.924	3.0	33.7	32.7	5.9	-34.8	0.0	0.0	37.5	74.0	-36.5	H	P		
4.924	3.0	20.9	32.7	5.9	-34.8	0.0	0.0	24.7	54.0	-29.3	H	A		
7.386	3.0	32.7	35.6	7.3	-34.1	0.0	0.0	41.5	74.0	-32.5	H	P		
7.386	3.0	21.1	35.6	7.3	-34.1	0.0	0.0	29.9	54.0	-24.1	H	A		
4.924	3.0	33.0	32.7	5.9	-34.8	0.0	0.0	36.8	74.0	-37.2	V	P		
4.924	3.0	21.2	32.7	5.9	-34.8	0.0	0.0	25.0	54.0	-29.0	V	A		
7.386	3.0	33.6	35.6	7.3	-34.1	0.0	0.0	42.4	74.0	-31.6	V	P		
7.386	3.0	20.6	35.6	7.3	-34.1	0.0	0.0	29.4	54.0	-24.6	V	A		
Rev. 4.1.2.7														
Note: No other emissions were detected above the system noise floor.														

7.2. RX SPURIOUS EMISSIONS ABOVE 1 GHz (WORST-CASE CONFIGURATION)

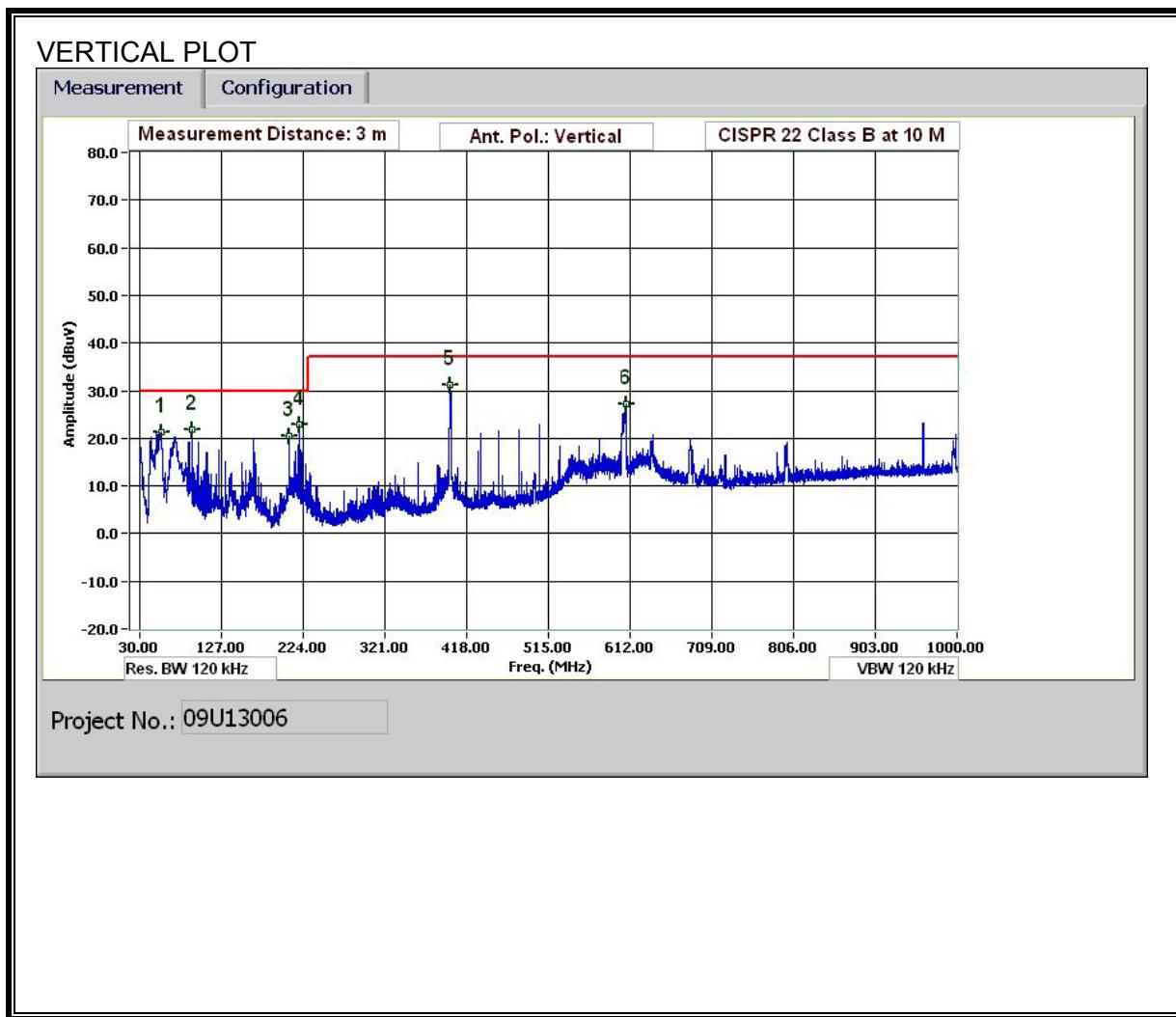
High Frequency Measurement Compliance Certification Services, Fremont 5m Chamber																
Company: INTEL Project #: 09U13006 Date: 01/05/2010 Test Engineer: Tom Chen Configuration: EUT with Ext Antenna Mode: RX mode																
<u>Test Equipment:</u>																
Horn 1-18GHz			Pre-amplifier 1-26GHz			Pre-amplifier 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 Pl dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)	
1.200	3.0	49.1	34.1	25.1	2.6	-38.0	0.0	38.8	23.8	74	54	-35.2	-30.2	H		
1.492	3.0	46.5	32.5	26.1	2.9	-37.6	0.0	38.0	24.0	74	54	-36.0	-30.0	H		
1.592	3.0	44.3	32.1	26.4	3.0	-37.4	0.0	36.3	24.1	74	54	-37.7	-29.9	H		
2.492	3.0	41.5	31.5	28.3	3.9	-36.3	0.0	37.5	27.5	74	54	-36.5	-26.5	H		
1.192	3.0	57.7	40.7	25.1	2.6	-38.0	0.0	47.4	30.4	74	54	-26.6	-23.6	V		
1.492	3.0	48.2	33.5	26.1	2.9	-37.6	0.0	39.6	25.0	74	54	-34.4	-29.0	V		
1.992	3.0	46.7	34.1	27.8	3.5	-36.9	0.0	41.0	28.4	74	54	-33.0	-25.6	V		
2.500	3.0	44.6	32.3	28.3	3.9	-36.3	0.0	40.6	28.3	74	54	-33.4	-25.7	V		
Rev. 11.10.08																
f Measurement Frequency Dist Distance to Antenna Read Analyzer Reading AF Antenna Factor CL Cable Loss								Amp Preamp Gain D Corr Distance Correct to 3 meters Avg Average Field Strength @ 3 m Peak Calculated Peak Field Strength HPF High Pass Filter							Avg Lim Average Field Strength Limit Pk Lim Peak Field Strength Limit Avg Mar Margin vs. Average Limit Pk Mar Margin vs. Peak Limit	

7.3. WORST-CASE BELOW 1 GHz

TX SPURIOUS EMISSION 30 TO 1000 MHz (HORIZONTAL)



TX SPURIOUS EMISSION 30 TO 1000 MHz (VERTICAL)



TX SPURIOUS EMISSION 30 TO 1000 MHz TEST DATA

HORIZONTAL AND VERTICAL DATA

30-1000MHz Frequency Measurement
Compliance Certification Services, Fremont 5m Chamber

Test Engr: Tom Chen
Date: 01/06/10
Project #: 09U13006
Company: INTEL
EUT Description: EUT with Ext Antenna
EUT M/N:

Test Target: FCC Class B
Mode Oper: TX mode

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
Horizontal													
210.007	3.0	45.8	11.9	1.2	27.4	-10.5	0.0	21.1	30.0	-8.9	H	P	
224.768	3.0	43.6	11.9	1.2	27.4	-10.5	0.0	18.8	30.0	-11.2	H	P	
397.935	3.0	52.6	15.0	1.7	28.0	-10.5	0.0	30.9	37.0	-6.1	H	P	
576.143	3.0	41.9	18.1	2.1	28.6	-10.5	0.0	23.0	37.0	-14.0	H	P	
602.304	3.0	41.6	18.5	2.2	28.6	-10.5	0.0	23.2	37.0	-13.8	H	P	
819.393	3.0	46.4	21.1	2.6	28.1	-10.5	0.0	31.5	37.0	-5.5	H	P	
Vertical													
56.041	3.0	50.9	8.5	0.6	28.3	-10.5	0.0	21.3	30.0	-8.7	V	P	
92.233	3.0	52.0	7.8	0.8	28.2	-10.5	0.0	21.9	30.0	-8.1	V	P	
207.967	3.0	45.1	11.9	1.2	27.4	-10.5	0.0	20.4	30.0	-9.6	V	P	
220.088	3.0	47.5	11.9	1.2	27.4	-10.5	0.0	22.8	30.0	-7.2	V	P	
397.935	3.0	52.8	15.0	1.7	28.0	-10.5	0.0	31.1	37.0	-5.9	V	P	
606.984	3.0	45.5	18.5	2.2	28.6	-10.5	0.0	27.2	37.0	-9.8	V	P	

Rev. 1.27.09

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

8. AC MAINS LINE CONDUCTED EMISSIONS

LIMITS

§15.207 (a)
IC RSS-GEN, Section 7.2.2

Frequency of emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

ANSI C63.4

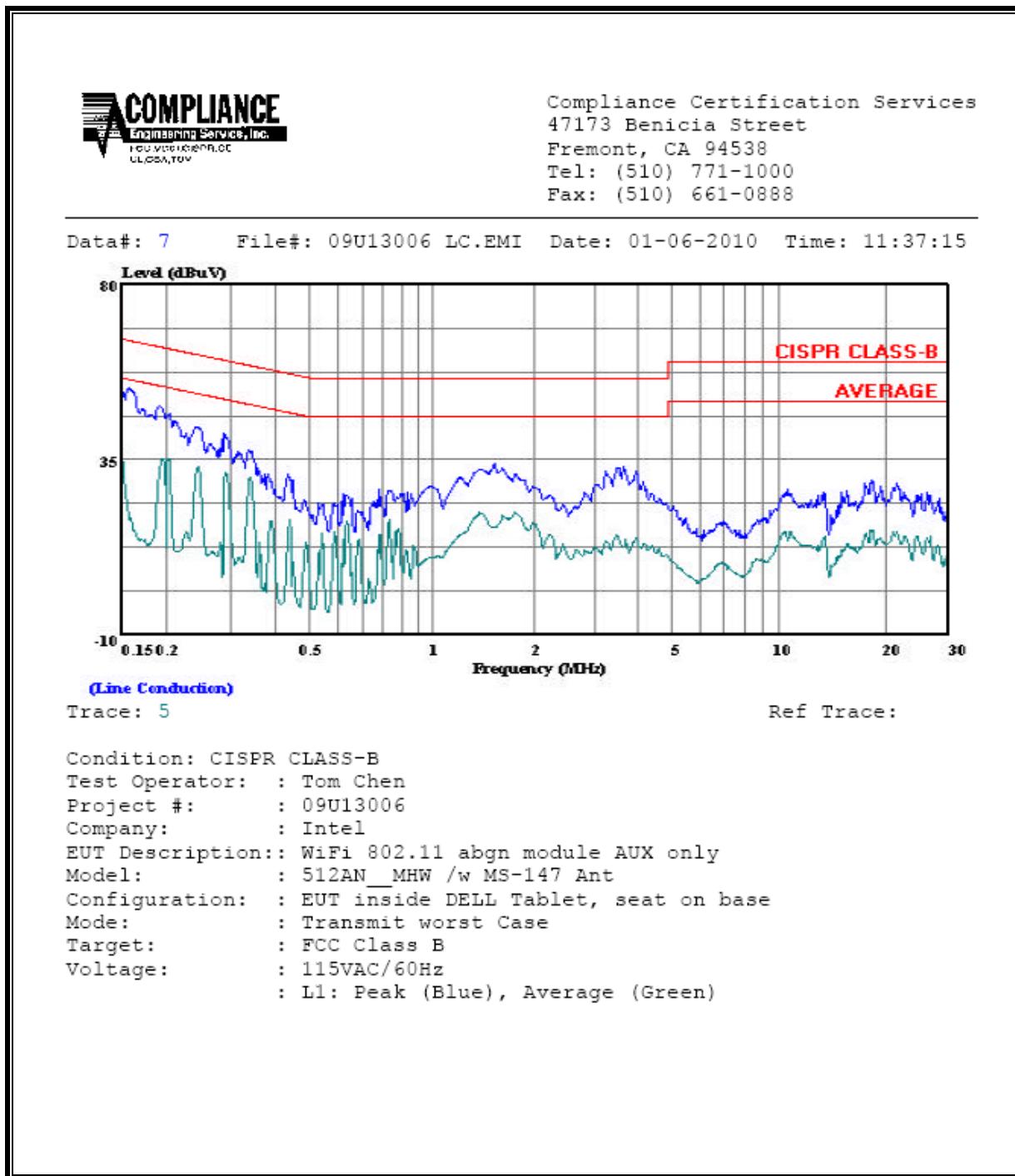
RESULTS

No non-compliance noted:

6 WORST EMISSIONS

CONDUCTED EMISSIONS DATA (115VAC 60Hz)									
Freq. (MHz)	Reading			Closs (dB)	Limit	EN B	Margin		Remark
	PK (dBuV)	QP (dBuV)	AV (dBuV)				QP	AV	
0.16	53.36	--	19.52	0.00	65.62	55.62	-12.26	-36.10	L1
0.19	48.64	--	31.48	0.00	64.04	54.04	-15.40	-22.56	L1
0.24	43.31	--	33.01	0.00	61.99	51.99	-18.68	-18.98	L1
0.15	52.51	--	31.60	0.00	65.89	55.89	-13.38	-24.29	L2
0.16	52.27	--	15.96	0.00	65.41	55.41	-13.14	-39.45	L2
0.20	48.84	--	36.37	0.00	63.82	53.82	-14.98	-17.45	L2
6 Worst Data									

LINE 1 RESULTS



LINE 2 RESULTS

