

RADIATED SPURIOUS EMISSIONS PORTIONS OF FCC CFR47 PART 15 SUBPART C

CERTIFICATION TEST REPORT

NETBOOK MODEL: TOSHIBA NB200 / NB205

FCC ID: CJ6UPLL20PC

REPORT NUMBER: 09U12710-1

ISSUE DATE: JULY 21, 2009

Prepared for

TOSHIBA CORPORATION
DIGITAL MEDIA NETWORK COMPANY
OME COMPLEX, 2-9, SUEHIRO-CHO
TOKYO, 198-8710, JAPAN

Prepared by

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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
	07/21/09	Initial Issue	T. Chan

TABLE OF CONTENTS

1.	AT1	ESTATION OF TEST RESULTS	4
2.	TES	T METHODOLOGY	5
3.	FAC	CILITIES AND ACCREDITATION	5
4.	CAI	IBRATION AND UNCERTAINTY	5
	4.1.	MEASURING INSTRUMENT CALIBRATION	5
	4.2.	SAMPLE CALCULATION	5
	4.3.	MEASUREMENT UNCERTAINTY	5
5.	EQI	JIPMENT UNDER TEST	6
	5.1.	DESCRIPTION OF EUT	6
	5.2.	MAXIMUM OUTPUT POWER	6
	5.3.	DESCRIPTION OF AVAILABLE ANTENNAS	6
	5.4.	SOFTWARE AND FIRMWARE	6
	5.5.	WORST-CASE CONFIGURATION AND MODE	6
	5.6.	DESCRIPTION OF TEST SETUP	7
6.	TES	T AND MEASUREMENT EQUIPMENT	9
7.	RAI	DIATED TEST RESULTS	10
	7.1.	FUNDAMENTAL OUTPUT POWER (EIRP)	10
	7.2.	LIMITS AND PROCEDURE	11
	7.3.	TRANSMITTER ABOVE 1 GHz	
	7.3. 7.3.		
	7.3. 7.4.	RECEIVER ABOVE 1 GHz	
	7.4. 7.5.	WORST-CASE BELOW 1 GHz	
8.	AC	POWER LINE CONDUCTED EMISSIONS	26
9.	SE1	UP PHOTOS	29

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: TOSHIBA CORPORATION

DIGITAL MEDIA NETWORK COMPANY OME COMPLEX, 2-9, SUEHIRO-CHO

TOKYO, 198-8710, JAPAN

EUT DESCRIPTION: NETBOOK

MODEL: TOSHIBA NB200/NB205

SERIAL NUMBER: 95KN 00258F4562E

DATE TESTED: JULY 15 – 20, 2009

APPLICABLE STANDARDS

STANDARD TEST RESULTS

CFR 47 Part 15 Subpart C Pass (Radiated Portions)

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

DEVIN CHANG 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:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) 36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

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 Bluetooth transceiver module.

The radio module is manufactured by CSR.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak EIRP and conducted output power as follows:

Mode	Channel	Frequency	Output Power	Antenna Gain	Output Power	Output Power
		(MHz)	EIRP (dBm)	(dBi)	(dBm)	(mW)
	Low	2402	-7.80	-3.6	-4.20	0.380
GFSK	Middle	2441	-7.50	-4.3	-3.20	0.479
	High	2480	-7.70	-5.4	-2.30	0.589
	Low	2402	-6.40	-3.6	-2.80	0.525
8PSK	Middle	2441	-7.30	-4.3	-3.00	0.501
	High	2480	-8.10	-5.4	-2.70	0.537

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an integral antenna, with a maximum gain of -3.6dBi.

5.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was BlueTest Tool, rev. 5012.

The test utility software used during testing was BlueTest.exe.

5.5. WORST-CASE CONFIGURATION AND MODE

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

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

	PERIPHERAL SUPPORT EQUIPMENT LIST										
Description Manufacturer Model Serial Number FCC ID											
Laptop PC	TOSHIBA	NB205	6AD927105086	Doc							
AC adapter	TOSHIBA	PA3742U-1ACA	G71C0009S118	Doc							

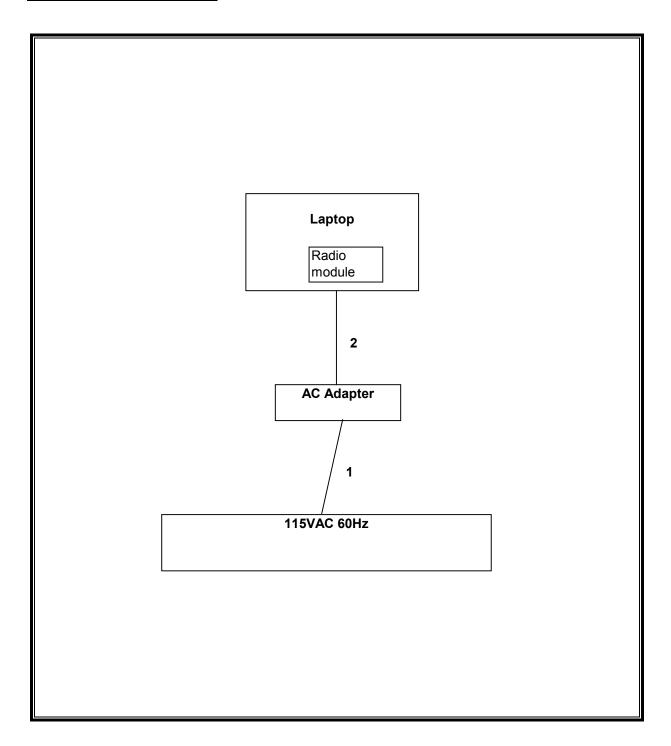
I/O CABLES

			1/0 (CABLE LIST		
Cable No.	Port	# of Identica Ports	Connector Type	Cable Type	Cable Length	Remarks
1	AC	1	US 115V	Un-shielded	1.7m	NA
2	DC	1	DC	Un-shielded	1.5m	Ferrite at laptop's end

TEST SETUP

The EUT is 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 EQUIPM	ENT LIST		
Description	Manufacturer	Model	Asset	Cal Due
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C00749	02/04/10
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01171	01/14/10
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00580	12/16/09
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01012	04/20/10
Antenna, Hom, 18 GHz	EMCO	3115	C00872	04/22/10
EMI Test Receiver, 30 MHz	R&S	ESHS 20	N02396	08/06/09
LISN, 30 MHz	FCC	LISN-50/250-25-2	N02625	10/29/09
LISN, 10 kHz~30 MHz	Solar	8012-50-R-24-BNC	N02481	10/29/09
Peak Power Meter	Boonton	4541	NA	01/15/10
Peak / Average Power Sensor	Boonton	57318	NA	02/02/10
2.4 - 2.5 Reject Filter	Micro Tronics	BRM50702	NA	NA

7. RADIATED TEST RESULTS

7.1. FUNDAMENTAL OUTPUT POWER (EIRP)

LIMIT

§15.247 (b) (1)

RSS-210 Issue 7 Clause A8.4

The maximum antenna gain is less than 6 dBi, therefore the limit is 30 dBm.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer the analyzer bandwidth is set to a value greater than the 20 dB bandwidth of the EUT.

RESULTS

Mode	Channel	Frequency	Output Power	Antenna Gain	Output Power
		(MHz)	EIRP (dBm)	(dBi)	(dBm)
	Low	2402	-7.80	-3.6	-4.20
GFSK	Middle	2441	-7.50	-4.3	-3.20
	High	2480	-7.70	-5.4	-2.30
	Low	2402	-6.40	-3.6	-2.80
8PSK	Middle	2441	-7.30	-4.3	-3.00
	High	2480	-8.10	-5.4	-2.70

7.2. 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.

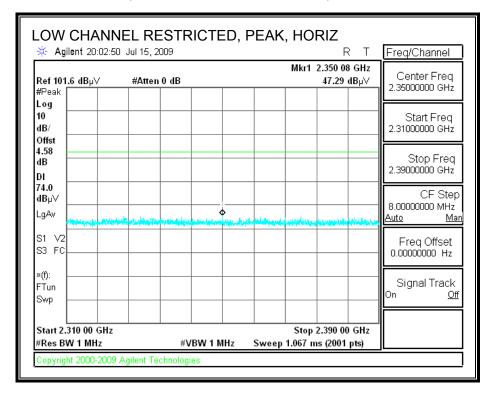
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

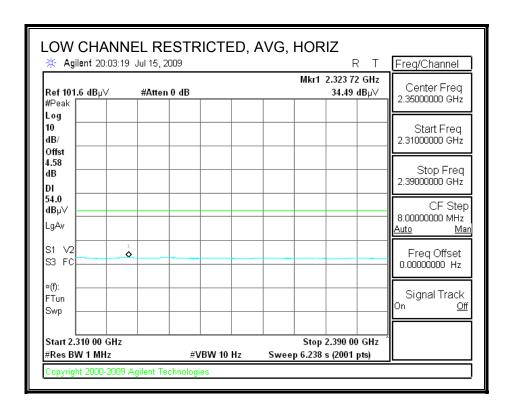
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

7.3. TRANSMITTER ABOVE 1 GHz

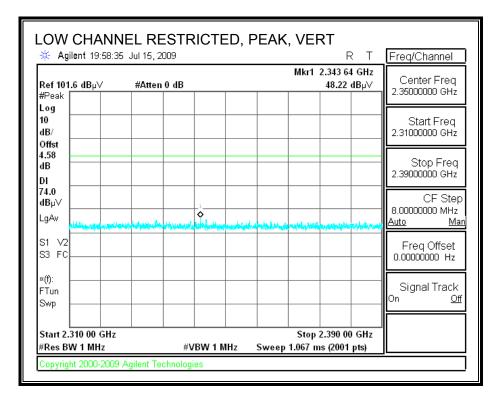
7.3.1. BASIC DATA RATE GFSK MODULATION

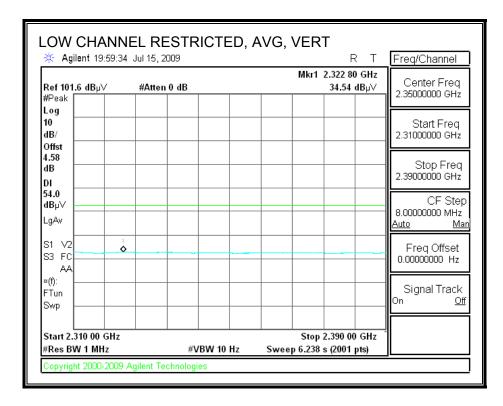
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



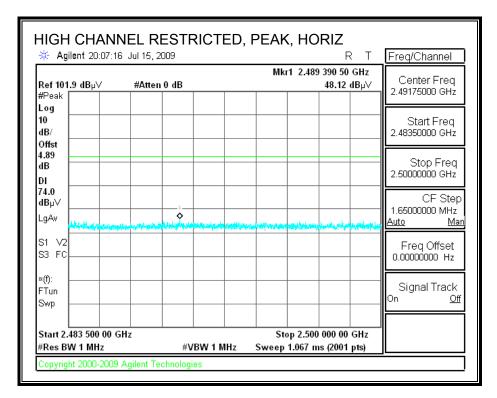


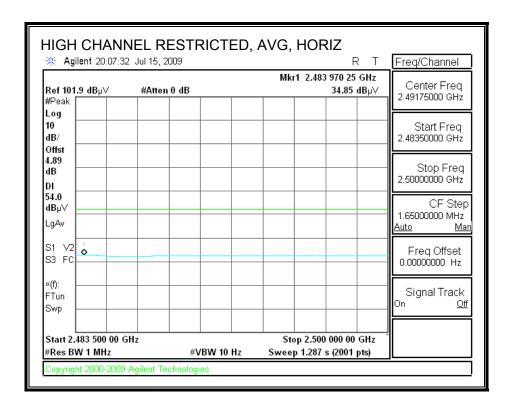
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



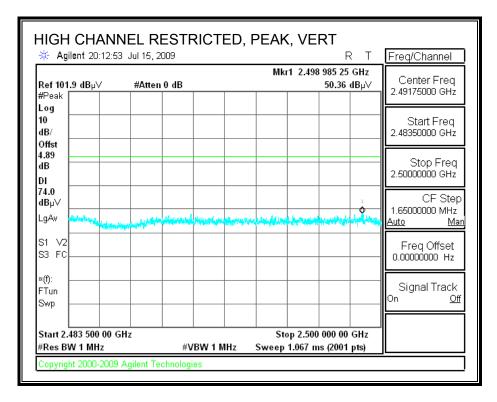


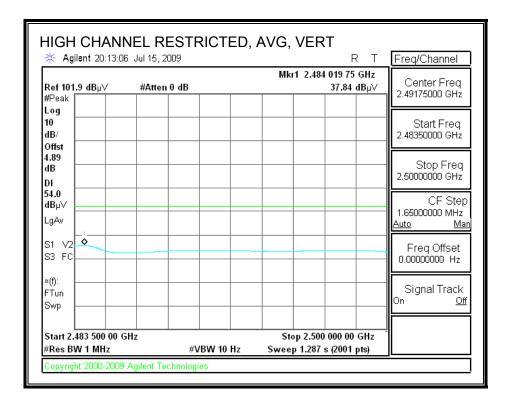
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)





REPORT NO: 09U12710-1 DATE: JULY 21, 2009 FCC ID: CJ6UPLL20PC **EUT: NETBOOK**

HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement

Compliance Certification Services, Fremont 5m Chamber

Test Engr: Devin Chang Date: 07/15/09 09U12710 Project #: Company: Toshiba EUT Description: EUT only Mode Oper: 8PSK mode

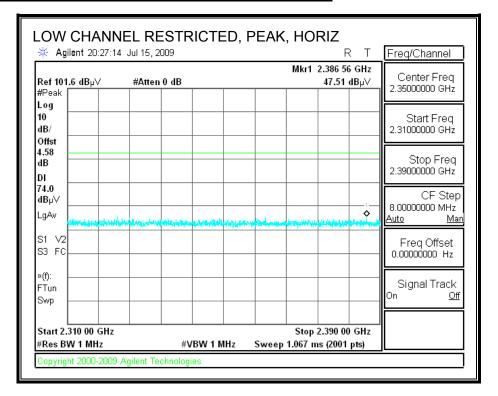
Measurement Frequency Amp Preamp Gain Average Field Strength Limit f Dist Distance to Antenna D Corr Distance Correct to 3 meters Peak Field Strength Limit Read Analyzer Reading Avg Average Field Strength @ 3 m Margin vs. Average Limit
AF Antenna Factor Peak Calculated Peak Field Strength Margin vs.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

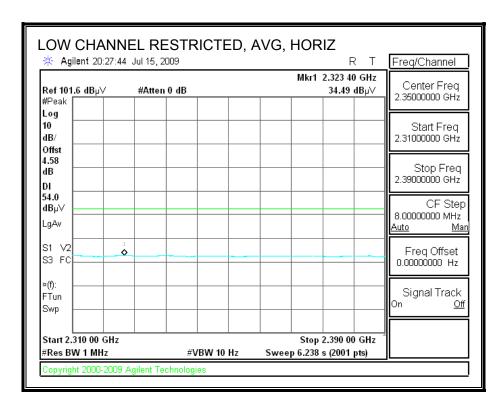
f	Dist	Read	AF	CL	Amp	: :					Ant. Pol.		Notes
GHz	(m)	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dB	V/H	P/A/QP	
2402MHz													
4.804	3.0	39.0	32.8	5.8	-36.5	0.0	10.0	51.1	74.0	-22.9	V	P	
4.804	3.0	26.2	32.8	5.8	-36.5	0.0	10.0	38.3	54.0	-15.7	V	A	
4.804	3.0	38.5	32.8	5.8	-36.5	0.0	10.0	50.6	74.0	-23.4	H	P	
4.804	3.0	26.2	32.8	5.8	-36.5	0.0	10.0	38.3	54.0	-15.7	H	A	
2441MHz													
4.882	3.0	38.4	32.8	5.8	-36.5	0.0	10.0	50.6	74.0	-23.4	V	P	
4.882	3.0	25.6	32.8	5.8	-36.5	0.0	10.0	37.8	54.0	-16.2	V	A	
7.323	3.0	36.7	35.2	7.3	-36.2	0.0	10.0	53.0	74.0	-21.0	V	P	
7.323	3.0	24.1	35.2	7.3	-36.2	0.0	10.0	40.4	54.0	-13.6	V	A	
4.882	3.0	38.3	32.8	5.8	-36.5	0.0	10.0	50.5	74.0	-23.5	Н	P	•
4.882	3.0	25.6	32.8	5.8	-36.5	0.0	10.0	37.7	54.0	-16.3	H	A	
7.323	3.0	37.7	35.2	7.3	-36.2	0.0	10.0	53.9	74.0	-20.1	H	P	
7.323	3.0	24.2	35.2	7.3	-36.2	0.0	10.0	40.4	54.0	-13.6	H	A	
2480MHz													
4.960	3.0	37.9	32.9	5.9	-36.5	0.0	10.0	50.2	74.0	-23.8	V	P	
4.960	3.0	25.3	32.9	5.9	-36.5	0.0	10.0	37.6	54.0	-16.4	V	A	
7.440	3.0	36.8	35.4	7.3	-36.2	0.0	10.0	53.2	74.0	-20.8	V	P	
7.440	3.0	24.7	35.4	7.3	-36.2	0.0	10.0	41.2	54.0	-12.8	V	A	
4.960	3.0	37.5	32.9	5.9	-36.5	0.0	10.0	49.9	74.0	-24.1	H	P	
4.960	3.0	25.3	32.9	5.9	-36.5	0.0	10.0	37.6	54.0	-16.4	H	A	•
7.440	3.0	37.4	35.4	7.3	-36.2	0.0	10.0	53.9	74.0	-20.1	H	P	•
7.440	3.0	24.7	35.4	7.3	-36.2	0.0	10.0	41.2	54.0	-12.8	H	A	•
													

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

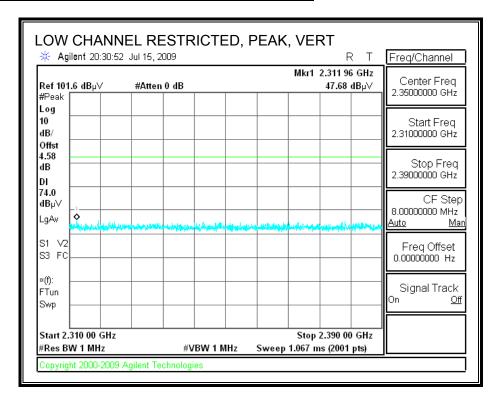
7.3.2. ENHANCED DATA RATE 8PSK MODULATION

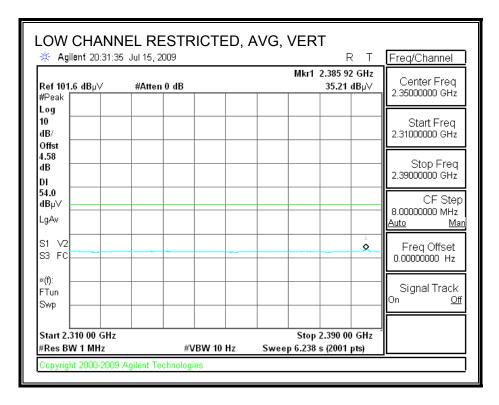
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



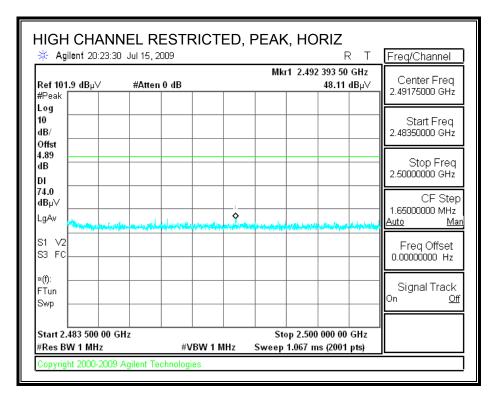


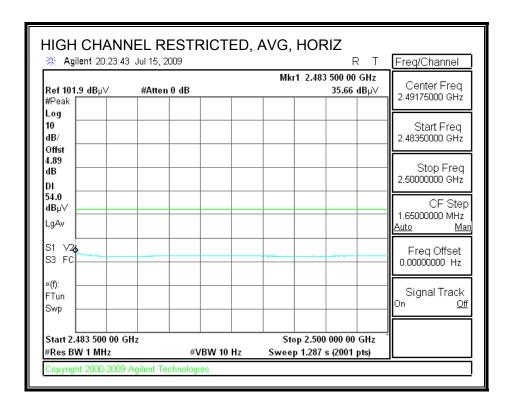
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



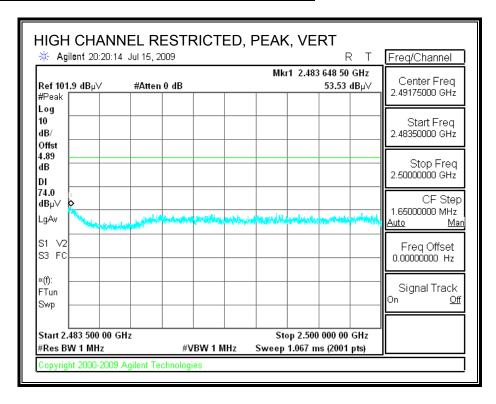


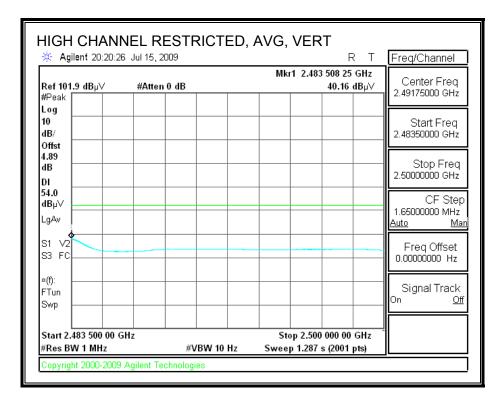
RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)





REPORT NO: 09U12710-1 DATE: JULY 21, 2009 FCC ID: CJ6UPLL20PC **EUT: NETBOOK**

HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement

Compliance Certification Services, Fremont 5m Chamber

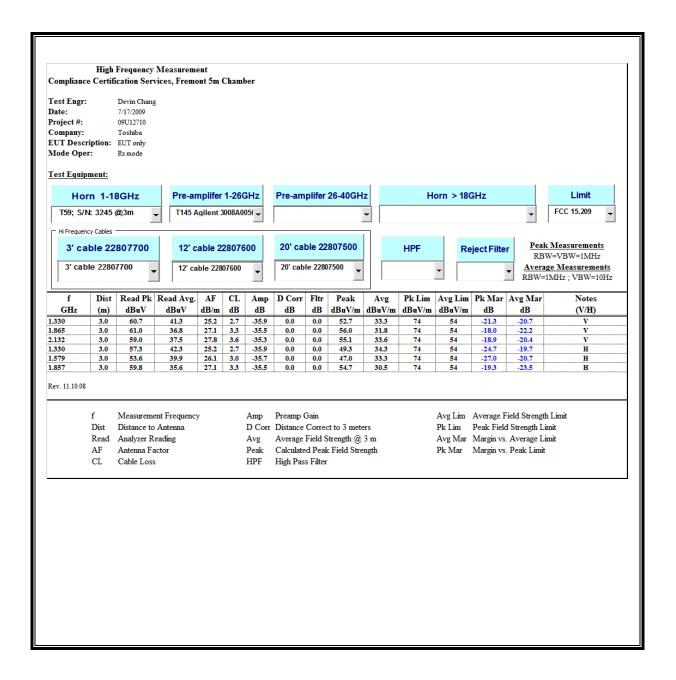
Test Engr: Devin Chang Date: 07/15/09 09U12710 Project #: Company: Toshiba EUT Description: EUT only Mode Oper: 8PSK mode

Measurement Frequency Amp Preamp Gain Average Field Strength Limit f 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		Corr.			Ant. Pol.	Det.	Notes
GHz	(m)	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dB	V/H	P/A/QP	
2402MHz													
4.804	3.0	46.8	32.8	5.8	-36.5	0.0	10.0	58.9	74.0	-15.1	V	P	
4.804	3.0	34.3	32.8	5.8	-36.5	0.0	10.0	46.4	54.0	-7.6	V	A	
4.804	3.0	40.3	32.8	5.8	-36.5	0.0	10.0	52.3	74.0	-21.7	H	P	
4.804	3.0	28.3	32.8	5.8	-36.5	0.0	10.0	40.3	54.0	-13.7	H	A	
2441MHz													
4.882	3.0	44.6	32.8	5.8	-36.5	0.0	10.0	56.8	74.0	-17.2	V	P	
4.882	3.0	33.3	32.8	5.8	-36.5	0.0	10.0	45.5	54.0	-8.5	V	A	
7.323	3.0	36.9	35.2	7.3	-36.2	0.0	10.0	53.1	74.0	-20.9	V	P	
7.323	3.0	24.4	35.2	7.3	-36.2	0.0	10.0	40.7	54.0	-13.3	V	A	
4.882	3.0	41.1	32.8	5.8	-36.5	0.0	10.0	53.3	74.0	-20.7	H	P	
4.882	3.0	29.4	32.8	5.8	-36.5	0.0	10.0	41.6	54.0	-12.4	H	A	
7.323	3.0	37.0	35.2	7.3	-36.2	0.0	10.0	53.3	74.0	-20.7	H	P	
7.323	3.0	24.1	35.2	7.3	-36.2	0.0	10.0	40.4	54.0	-13.6	н	A	
2480MHz													
4.960	3.0	46.2	32.9	5.9	-36.5	0.0	10.0	58.6	74.0	-15.4	V	P	
4.960	3.0	35.1	32.9	5.9	-36.5	0.0	10.0	47.4	54.0	-6.6	V	A	
7.440	3.0	38.1	35.4	7.3	-36.2	0.0	10.0	54.6	74.0	-19.4	V	P	
7.440	3.0	24.7	35.4	7.3	-36.2	0.0	10.0	41.2	54.0	-12.8	V	A	
4.960	3.0	39.3	32.9	5.9	-36.5	0.0	10.0	51.6	74.0	-22.4	H	P	
4.960	3.0	27.8	32.9	5.9	-36.5	0.0	10.0	40.1	54.0	-13.9	H	A	
7.440	3.0	38.0	35.4	7.3	-36.2	0.0	10.0	54.5	74.0	-19.5	H	P	
7.440	3.0	24.7	35.4	7.3	-36.2	0.0	10.0	41.2	54.0	-12.8	H	A	
						•							

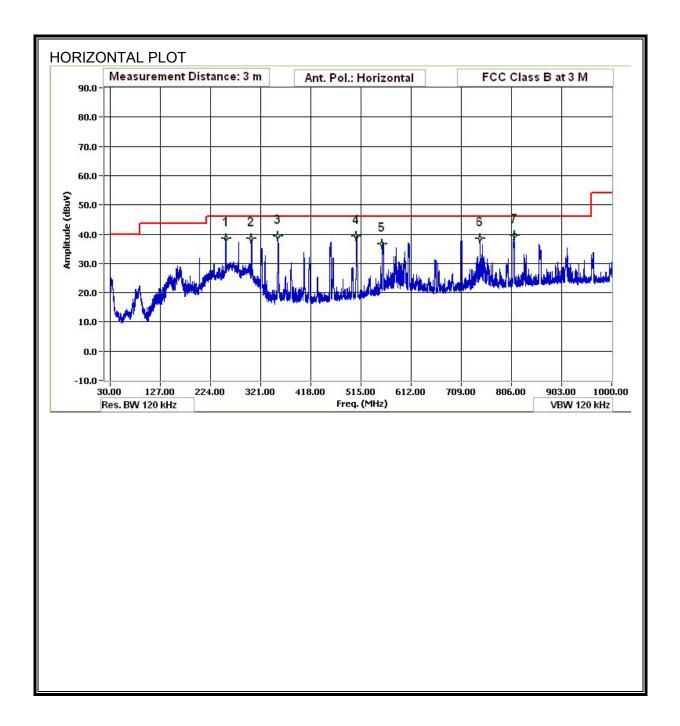
Note: No other emissions were detected above the system noise floor.

7.4. RECEIVER ABOVE 1 GHz

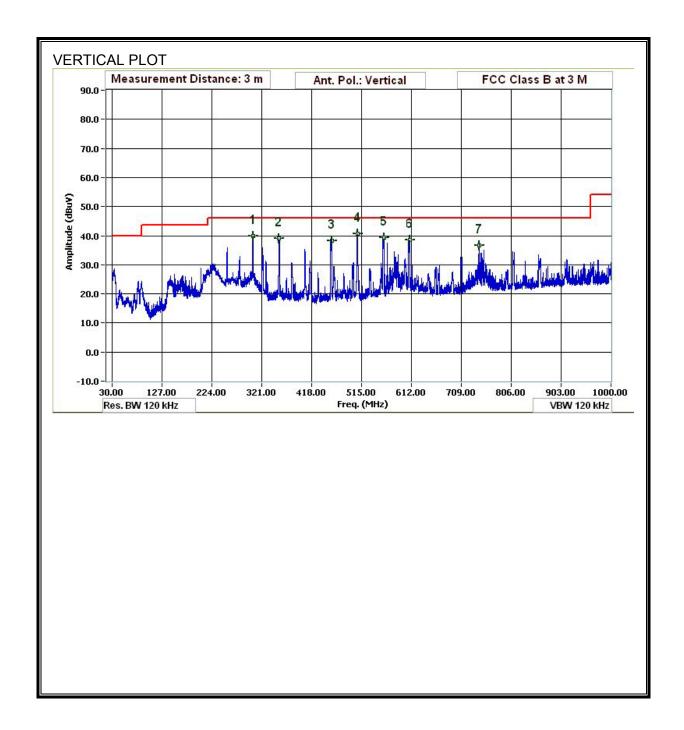


7.5. WORST-CASE BELOW 1 GHz

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



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



Margin Margin vs. Limit

DATA

30-1000MHz Frequency Measurement

Compliance Certification Services, Fremont 5m Chamber

Test Engr: Devin Chang
Date: 07/16/09
Project #: 09U12710
Company: Toshiba
EUT Description: EUT only
Mode Oper: Worst case

f Measurement Frequency Amp Preamp Gain

 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
304.571	3.0	52.2	13.6	1.5	27.4	0.0	0.0	39.8	46.0	-6.2	v	EP	
354.253	3.0	50.8	14.3	1.6	27.7	0.0	0.0	39.0	46.0	-7.0	V	EP	
456.858	3.0	48.7	16.1	1.9	28.4	0.0	0.0	38.3	46.0	-7.7	V	EP	
507.500	3.0	50.4	17.0	2.0	28.6	0.0	0.0	40.7	46.0	-5.3	V	EP	
507.500	3.0	46.5	17.0	2.0	28.6	0.0	0.0	36.8	46.0	-9.2	V	OP	
558.382	3.0	47.9	17.8	2.1	28.6	0.0	0.0	39.2	46.0	-6.8	V	EP	
609.144	3.0	46.5	18.5	2.2	28.6	0.0	0.0	38.6	46.0	-7.4	V	EP	
743.429	3.0	42.7	19.8	2.5	28.4	0.0	0.0	36.5	46.0	-9.5	V	EP	
253.569	3.0	52.6	11.9	1.3	27.4	0.0	0.0	38.5	46.0	-7.5	H	EP	
303.371	3.0	51.0	13.6	1.5	27.4	0.0	0.0	38.6	46.0	-7.4	H	EP	
354.013	3.0	51.2	14.3	1.6	27.7	0.0	0.0	39.4	46.0	-6.6	H	EP	
505.700	3.0	49.0	16.9	2.0	28.6	0.0	0.0	39.3	46.0	-6.7	H	EP	
556.342	3.0	45.3	17.8	2.1	28.6	0.0	0.0	36.6	46.0	-9.4	H	EP	
744.749	3.0	44.6	19.8	2.5	28.4	0.0	0.0	38.5	46.0	-7.5	H	EP	
812.072	3.0	44.2	21.0	2.6	28.2	0.0	0.0	39.6	46.0	-6.4	H	EP	
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Rev. 1.27.09

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

8. 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

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

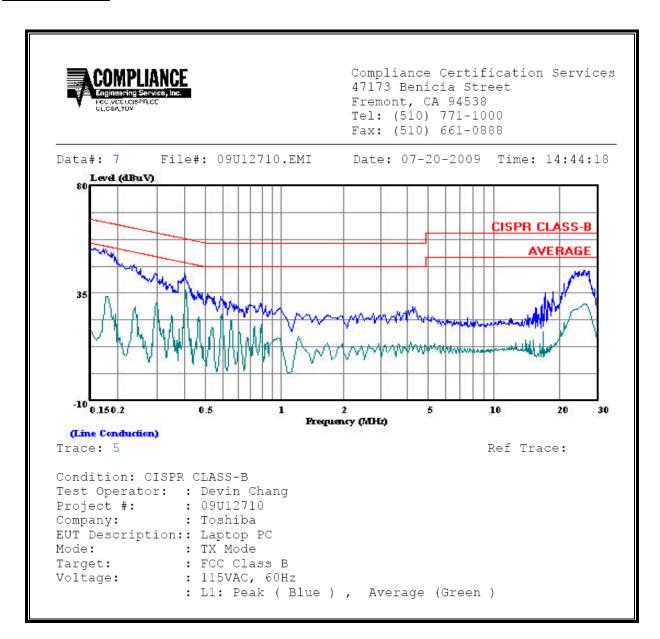
Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

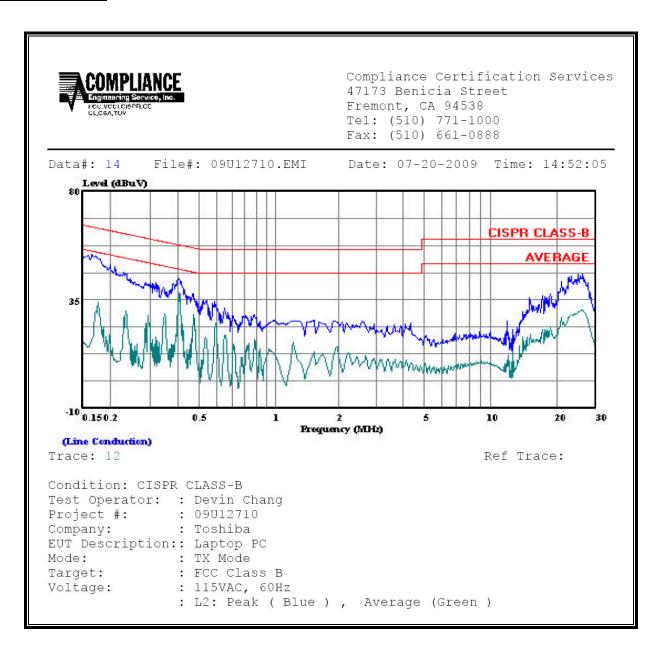
6 WORST EMISSIONS

CONDUCTED EMISSIONS DATA (115VAC 60Hz)									
Freq.	Reading		Closs	Limit	FCC_B	Margin		Remark	
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV	QP (dB)	AV (dB)	L1/L2
0.18	53.58		33.68	0.00	64.53	54.53	-10.95	-20.85	L1
0.41	42.24		36.17	0.00	57.73	47.73	-15.49	-11.56	L1
26.42	44.69		30.38	0.00	60.00	50.00	-15.31	-19.62	L1
0.18	53.58		34.18	0.00	64.67	54.67	-11.09	-20.49	L2
0.41	43.74		38.06	0.00	57.73	47.73	-13.99	-9.67	L2
26.14	45.59		30.98	0.00	60.00	50.00	-14.41	-19.02	L2
6 Worst	6 Worst Data								

LINE 1 RESULTS



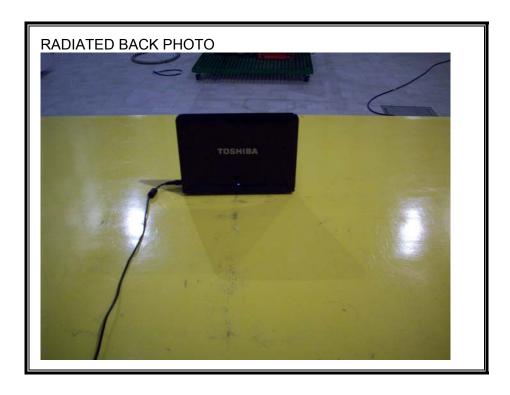
LINE 2 RESULTS



9. SETUP PHOTOS

RADIATED RF MEASUREMENT SETUP





POWERLINE CONDUCTED EMISSIONS MEASUREMENT SETUP





END OF REPORT

Page 30 of 30