

FCC CFR47 PART 15 SUBPART C INDUSTRY CANADA RSS-210 ISSUE 8

CERTIFICATION TEST REPORT

FOR

10.1 INCH TABLET WITH 802.11abgn 1X1 + BT 4.0

FCC MODEL NUMBER: TP00043A IC MODEL NUMBER: TP00043AEF

FCC ID: PU5-TP00043AEF IC: 4182A-TP00043AEF

REPORT NUMBER: 12U14468

ISSUE DATE: 2012-08-31 REVISION DATE: 2012-10-05

Prepared for

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REPORT NO: 12U14468 DATE: 2012-08-31 (REVISED 2012-10-05) FCC ID: PU5-TP00043AEF IC: 4182A-TP00043AEF

Revision History

Rev.	Issue Date	Revisions	Revised By
	8/31/12	Initial Issue	M. Antola
1	10/5/12	Updated bandedge section. Misc. editorial updates.	M. Antola

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REPORT NO: 12U14468 DATE: 2012-08-31 (REVISED 2012-10-05) FCC ID: PU5-TP00043AEF IC: 4182A-TP00043AEF

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: WISTRON CORPORATION

21F, 88, SEC. 1, HSIN TAI WU RD., HSICHIH

TAIPEI HSIEN 221, TAIWAN R.O.C

EUT DESCRIPTION: 10.1 INCH TABLET WITH 802.11abgn 1X1 + BT 4.0

MODEL: TP00043A (FCC) / TP00043AEF (IC)

SERIAL NUMBER: PROTOTYPE

DATE TESTED: 2012-08-29 to 2012-08-31

APPLICABLE STANDARDS

STANDARD TEST RESULTS

CFR 47 Part 15 Subpart C Pass

INDUSTRY CANADA RSS-210 Issue 8 Annex 8 Pass

INDUSTRY CANADA RSS-GEN Issue 3 Pass

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards, using test results reported in the test report documents referenced below and/or documentation furnished by the applicant. All indications of Pass/Fail in this report are opinions expressed by UL LLC based on interpretations of these calculations. The results show that the equipment 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 by the referenced documents. This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC 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 UL By: Tested By:

Bob DeLisi

WiSE Principle Engineer

UL

Mike Antola

WiSE Project Lead

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UL

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 3, and RSS-210 Issue 8.

IC: 4182A-TP00043AEF

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 1285 Walt Whitman Rd. Melville, NY 11747, USA.

UL Melville is accredited by NVLAP, Laboratory Code 100255-0. The full scope of accreditation can be viewed at http://ts.nist.gov/standards/scopes/1002550.htm.

4. CALIBRATION AND UNCERTAINTY

MEASURING INSTRUMENT CALIBRATION 4.1.

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	± 3.3 dB
Radiated Disturbance, 30 to 1000 MHz	± 4.00 dB

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

5. EQUIPMENT UNDER TEST

DESCRIPTION OF EUT 5.1.

The EUT is a transceiver which utilizes 802.11abgn 1x1 + BT4.0.

The transmitter module is manufactured by Broadcom, model BCM94330LGA.

5.2. **MAXIMUM OUTPUT POWER**

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

Frequency Range	Mode	Output Power	Output Power
(MHz)		(dBm)	(mW)
2402 - 2480	Basic GFSK	8.35	6.84
2402 - 2480	Enhanced 8PSK	8.67	7.36

Note: Output power measurements are peak power measurements and used to confirm the device was operating within expected tolerances (+/- 0.5dB) of the power during original tests

5.3. **DESCRIPTION OF AVAILABLE ANTENNAS**

The radio utilizes a PIFA antenna, with a maximum gain of 1.88 dBi in the 2.4GHz band and 0.17 dBi in the 5GHz band.

Wistron NeWeb Corporation

Main Antenna : 25.90ADN.001 PIFA Antenna Gain: 1.88 Aux Antenna : 25.90ADP.001 PIFA Antenna Gain: 0.17

5.4. **SOFTWARE AND FIRMWARE**

The EUT driver software installed during testing was Broadcom version 5.93.97.48.

The test utility software used during testing was Broadcom BT test mode tool, Win8DUTApp utility.

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

	Suppo	rt Equipment List		
Description	Manufacturer	Model	Serial Number	FCC ID
Headphone				
Mouse	Dell	M-UK		

DATE: 2012-08-31 (REVISED 2012-10-05)

IC: 4182A-TP00043AEF

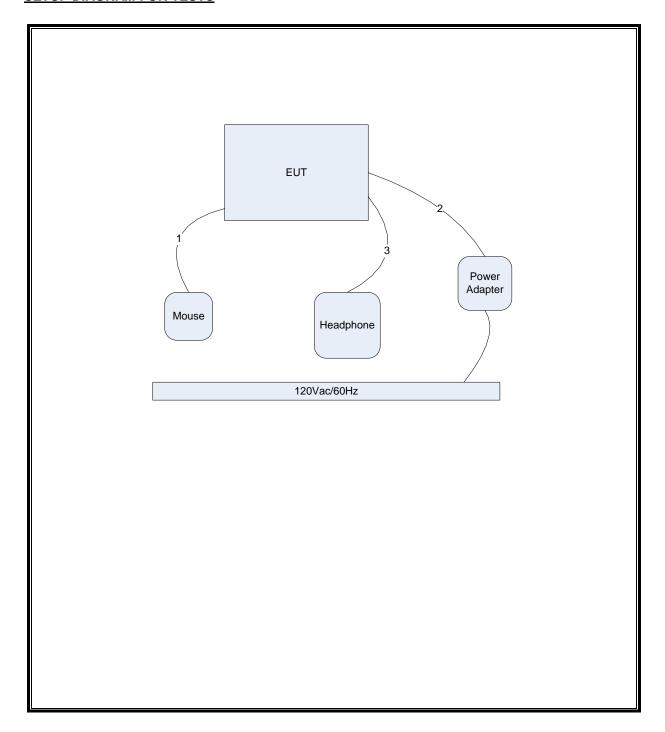
I/O CABLES

			I/O Ca	able List		
Cable	Port	# of identical	Connector	Cable Type	Cable	Remarks
No		ports	Туре		Length (m)	
1	USB	1	USB	USB	<3M	
2	Micro-USB	1	USB	USB	<3M	
3	Headphone	1	Phono	Phono	<3M	

TEST SETUP

The EUT is a stand-alone device. Test software exercised the radio module.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

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

	Radiate	d Emissions			
Description	Manufacturer	Model	Identifier	Cal Date	Cal Due Date
30-1000MHz	-		•		
EMI Receiver	Rohde & Schwarz	ESIB26	ME5B-081	2012-01-30	2013-01-30
Bicon Antenna	Schaffner	VBA6106A	54	2012-04-10	2013-04-10
Log-P Antenna	Schaffner	UPA6109	44067	2012-05-16	2013-05-16
Switch Driver	HP	11713A	ME7A-627	N/A	N/A
System Controller	Sunol Sciences	SC99V	44396	N/A	N/A
Camera Controller	Panasonic	WV-CU254	44395	N/A	N/A
RF Switch Box	UL	1	44398	N/A	N/A
Measurement Software	UL	Version 9.5	44740	N/A	N/A
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268	2010-12-07	2012-12-07
Multimeter	Fluke	83III	ME5B-305	2012-02-01	2013-02-28
Above 1GHz (Band Optimized Syst	em)				
EMI Receiver	Rohde & Schwarz	ESIB40	34968	2012-03-06	2013-03-06
Horn Antenna (1-2 GHz)	ETS	3161-01	51442	2008-03-28	See * below
Horn Antenna (2-4 GHz)	ETS	3161-02	48107	2007-09-27	See * below
Horn Antenna (4-8 GHz)	ETS	3161-03	48106	2007-09-27	See * below
Horn Antenna (8-12 GHz)	ETS	3160-07	8933	2008-11-24	See * below
Horn Antenna (12-18 GHz)	ETS	3160-08	8932	2007-09-27	See * below
Horn Antenna (18-26.5 GHz)	ETS	3160-09	8947	2007-09-26	See * below
Signal Path Controller	HP	11713A	50250	N/A	N/A
Gain Controller	HP	11713A	50251	N/A	N/A
RF Switch / Preamp Fixture	UL	BOMS1	50249	N/A	N/A
System Controller	UL	BOMS2	50252	N/A	N/A
Measurement Software	UL	Version 9.5	44740	N/A	N/A
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268	2010-12-07	2012-12-07
Multimeter	Fluke	83III	ME5B-305	2012-02-01	2013-02-28

^{* -} Note: As allowed by the calibration standard ANSI C63.4 Section 4.4.2, standard gain horns need only a one-time calibration. Only if physical damage occurs will the horn antenna require re-calibration.

^{*} Gain standard horn antennas (sometimes called standard gain horn antennas) need not be calibrated beyond that which is provided by the manufacturer unless they are damaged or deterioration is suspected, or they are used at a distance closer than $2D^2/\lambda$. Gain standard horn antennas have gains that are fixed by their dimensions and dimensional tolerances.

	Conducted A	Antenna Port	Tests		
Description	Manufacturer	Model	Identifier	Cal Date	Cal Due Date
Power Sensor	Rohde & Schwarz	NRP-Z81	73137	2011-09-27	2012-09-27
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	43733	2012-03-13	2014-03-13
Multimeter	Fluke	83III	ME5B-305	2012-02-01	2013-02-28

7. DUTY CYCLE

LIMITS

FCC §15.35 (c)

The measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification or shall be retained in the measurement data file for equipment subject to notification or verification.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer or radiated field strength. The RBW is set to 1 MHz and the VBW is set to 1 MHz. The sweep time is coupled and the span is set to 0 Hz. The number of pulses is measured and calculated in a 100 ms scan.

CALCULATION

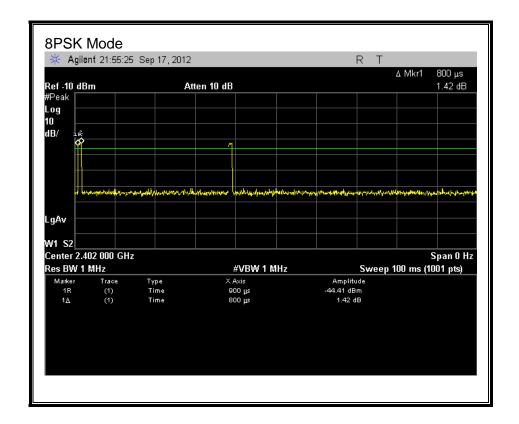
Average Reading = Peak Reading (dBuV/m) + 20log (Duty Cycle), Where Duty Cycle is (# of long pulses * long pulse width) + (# of short pulses * short pulse width) / 100 or T

RESULTS

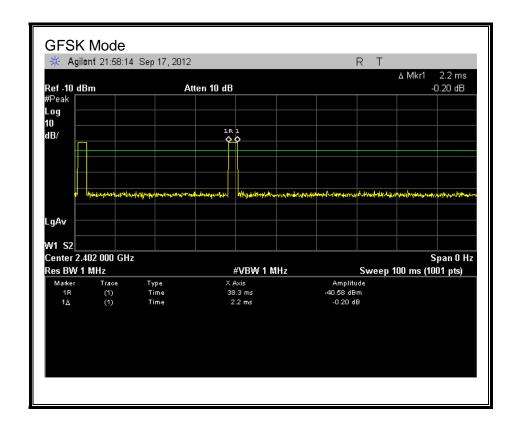
No non-compliance noted:

One	Long Pulse	# of	Short	# of	Duty	20*Log
Period	Width	Long	Width	Short	Cycle	Duty Cycle
(ms)	(ms)	Pulses	(ms)	Pulses		(dB)
	•	8	PSK			
100			0.84	2	0.017	-35.46
		G	FSK			
100			2.20	2	0.044	-27.13

SHORT PULSE WIDTH / NUMBER OF SHORT PULSES



SHORT PULSE WIDTH / NUMBER OF SHORT PULSES



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, 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.

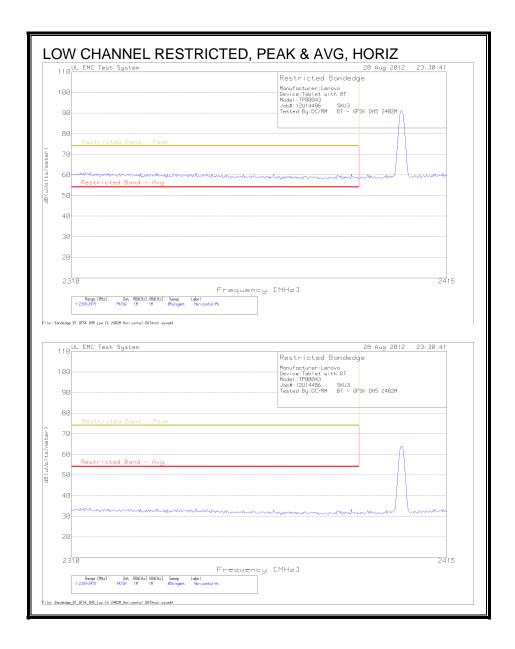
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

NOTE: Duty cycle correction factor from Section 7.0 was applied to Bandedge measurements in order to obtain the Average data.

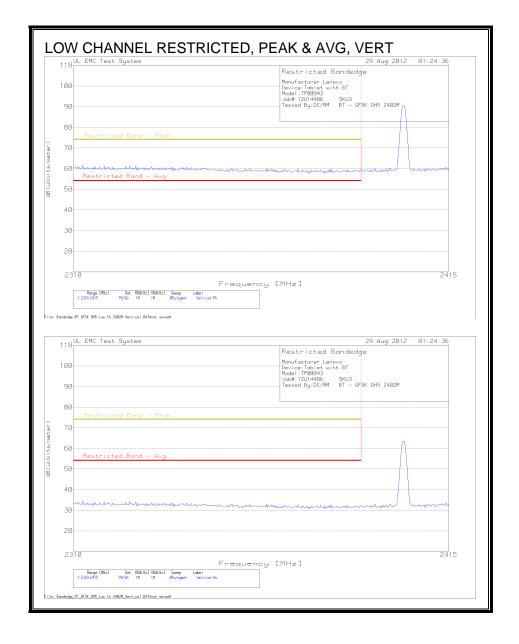
8.2. TRANSMITTER ABOVE 1 GHz

8.2.1. BASIC DATA RATE GFSK MODULATION

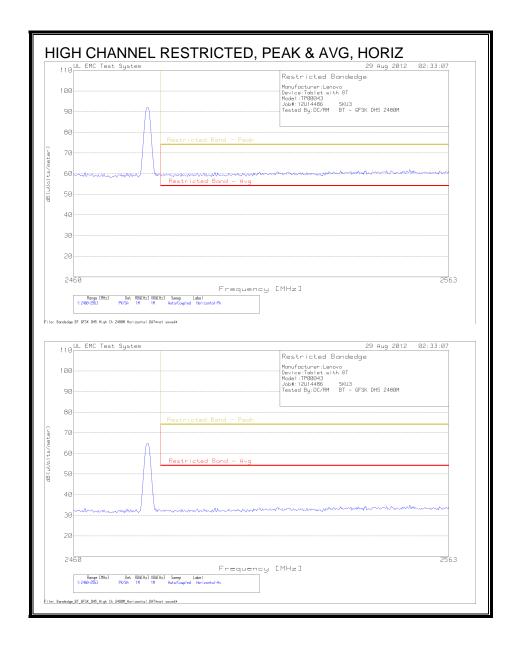
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



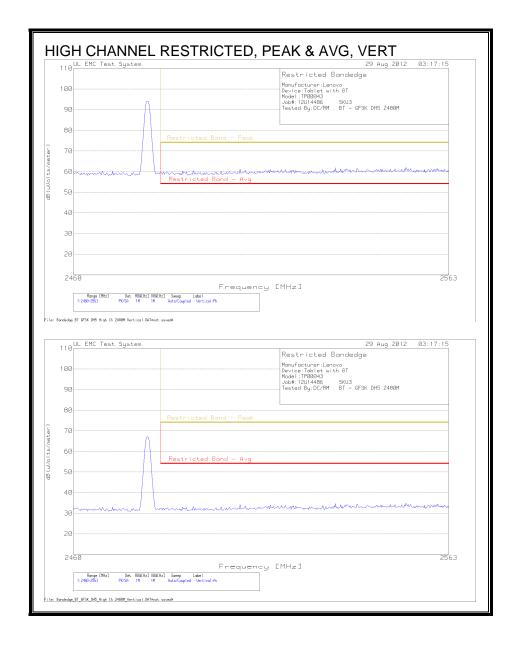
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

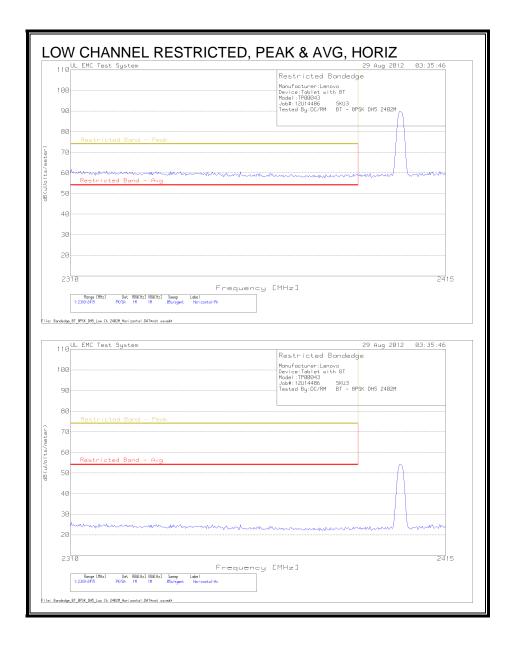


HARMONICS AND SPURIOUS EMISSIONS

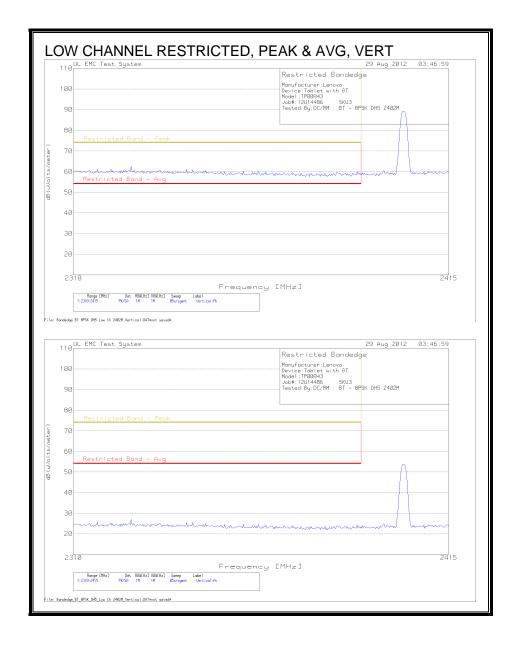
Manufacturer:L Device:Tablet w												
Model:TP00043												
Job#:12U14486												
DC/RM BT GFSK	DHS											
Low Channel - 2	402MHz											
LOW CHAINCE L												
						FCC Part 15		FCC Part 15				
			AF-48106	BOMS Factor		Subpart C		Subpart C		Azimuth	Height	
Test Frequency	Meter Reading	Detector	[dB]	[dB]	dB(uVolts/meter)		Margin		Margin		[cm]	Polarity
4804.1222	_		27.1		38.72		-15.28		-35.28	48		Vert
4804.1222	50.18	Av	27.1	-52.69	24.59	54	-29.41	74	-49.41	48	346	Vert
4804.1222	64.79	PK	27.1	-52.69	39.2	54	-14.8	74	-34.8	146	135	Horz
4804.1222	50.09	Av	27.1	-52.69	24.5	54	-29.5	74	-49.5	146	135	Horz
						FCC Part 15		FCC Part 15				
			AF-8933	BOMS Factor		Subpart C		Subpart C		Azimuth	Height	
Test Frequency	Meter Reading	Detector	[dB]	[dB]	dB(uVolts/meter)		Margin	Peak	Margin		[cm]	Polarity
9608.4158	_		33.3		45.39				-28.61	338		Horz
9608.4158			33.3		31.24		-22.76		-42.76	338		Horz
9608.4158			33.3		45.49			74				Vert
9608.4158			33.3		31.8			74				Vert
						, , , , , , , , , , , , , , , , , , ,						_
Mid Channel - 2	441MHz											
						FCC Part 15		FCC Part 15				
			AF-48106	BOMS Factor		Subpart C		Subpart C		Azimuth	Height	
Test Frequency	Meter Reading	Detector	[dB]	[dB]	dB(uVolts/meter)		Margin	Peak	Margin	[Degs]	[cm]	Polarity
4882.0982	_		27.2		39.26		-14.74		-34.74	53		Vert
4882.0982			27.2		25.74				-48.26			Vert
4882.0982			27.2		39.2			74		128		Horz
4882.0982			27.2		24.97				-49.03			Horz
7323.4158			28		36.92		-17.08		-37.08			Vert
7323.4158			28		22.8			74				Vert
7323.4158			28		36.9			74				Horz
7323.4158			28		22.53		-31.47		-51.47	323		Horz
		-				3.						
						FCC Part 15		FCC Part 15				
			AF-8933	BOMS Factor		Subpart C		Subpart C		Azimuth	Height	
Test Frequency	Meter Reading	Detector		[dB]	dB(uVolts/meter)		Margin		Margin		[cm]	Polarity
9764.5952	_		33.2		46.83		_		-27.17	141		Horz
9764.5952			33.2		32.71		-21.29		-41.29			Horz
9764.5952			33.2					74				Vert
9764.5952			33.2		34.57		-19.43		-39.43			Vert
2.31.3332	20.23		33.2	-15.50	54.57		25.45	/-	23.43	/	510	
High Channel - 2	480MHz											
g												
						FCC Part 15		FCC Part 15				
			AF-48106	BOMS Factor		Subpart C		Subpart C		Azimuth	Height	
Test Frequency	Meter Reading	Detector	[dB]	[dB]	dB(uVolts/meter)		Margin		Margin		[cm]	Polarity
4960.0701	_		27.3		,,		-17.25		-37.25			Horz
4960.0701			27.3				-29.83		-49.83			Horz
7439.5291			28.1				-17.37		-37.37			Horz
7439.5291			28.1				-29.13		-49.13			Horz
4960.3106		PK	27.4				-12.94		-32.94			Vert
4960.3106			27.4				-25.99		-45.99			Vert
7439.9499			28				-17.25		-37.25			Vert
7439.9499			28				-28.94		-48.94			Vert
						,		· ·				_
PK - Peak detect	tor											
Av - Average de												

8.2.2. ENHANCED DATA RATE 8PSK MODULATION

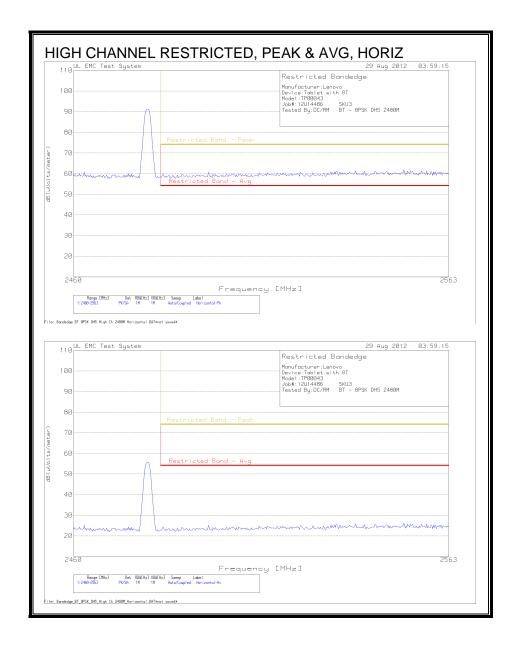
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



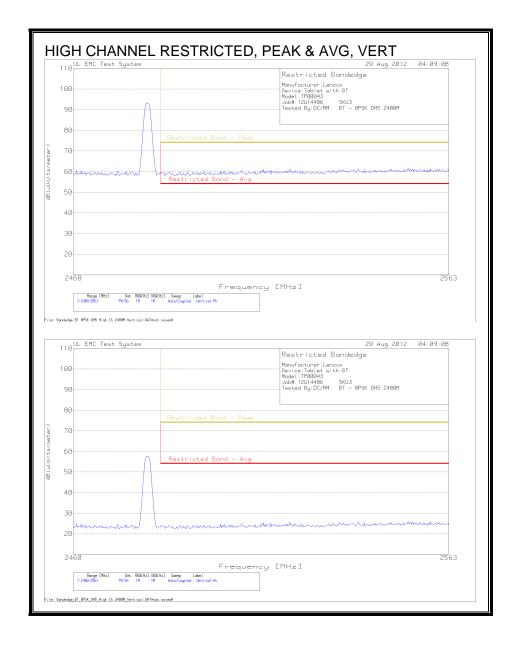
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

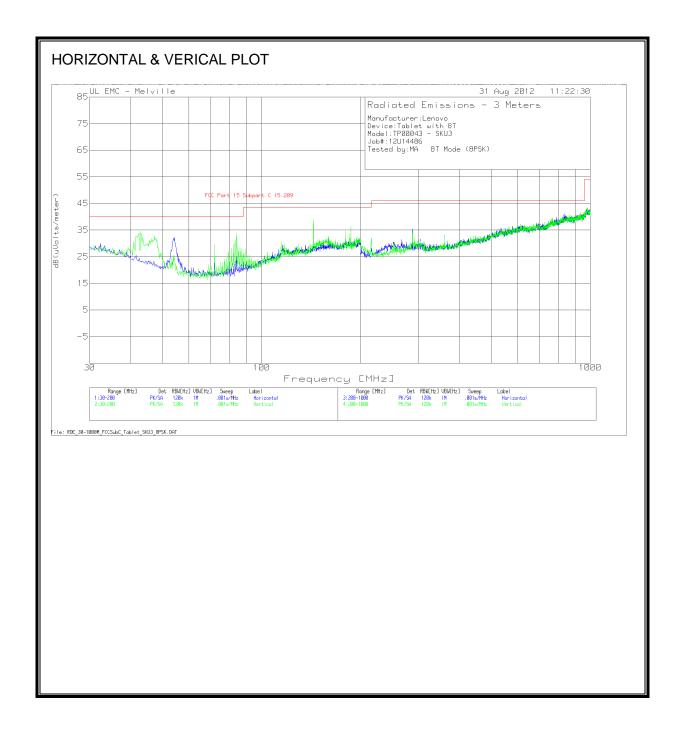


HARMONICS AND SPURIOUS EMISSIONS

4804 64.11 PK 27.3 -52.69 38.72 54 -15 4804 48.92 Av 27.3 -52.69 23.53 54 -30 4804 62.52 PK 27.3 -52.69 37.13 54 -16 4804 48.31 Av 27.3 -52.69 22.92 54 -31 Mid Channel - 2441MHz FCC Part 15 AF-48106 BOMS Factor [dB] FCC Part 15 Subpart C Test Frequency Meter Reading 66.42 PK 27.5 -52.5 41.42 54 -12	Su Margin Pe -15.28 -30.47 -16.87 -31.08	74 74 74	Margin -35.28 -50.47 -36.87	191	[cm] 323	Polarit
Model:TP00043 SKU3	Su Margin Pe -15.28 -30.47 -16.87 -31.08	ubpart C eak 74 74 74	Margin -35.28 -50.47 -36.87	[Degs] 191 191	[cm] 323	Horz
MABLE Mode	Su Margin Pe -15.28 -30.47 -16.87 -31.08	ubpart C eak 74 74 74	Margin -35.28 -50.47 -36.87	[Degs] 191 191	[cm] 323	Horz
MABLE Mode	Su Margin Pe -15.28 -30.47 -16.87 -31.08	ubpart C eak 74 74 74	Margin -35.28 -50.47 -36.87	[Degs] 191 191	[cm] 323	Horz
AF-48106 BOMS Factor GB GB BOMS Factor GB GB BOMS Factor GB GB GB GB GB GB GB G	Su Margin Pe -15.28 -30.47 -16.87 -31.08	ubpart C eak 74 74 74	Margin -35.28 -50.47 -36.87	[Degs] 191 191	[cm] 323	Horz
AF-48106 BOMS Factor [dB] [dB] dB(uVolts/meter) 15.209 Mar 4804 64.11 PK 27.3 -52.69 38.72 54 -15 4804 62.52 PK 27.3 -52.69 37.13 54 -16 4804 48.91 Av 27.3 -52.69 22.92 54 -31 Mid Channel - 2441MHz Test Frequency Meter Reading Detector [dB] BOMS Factor [dB] BOMS Factor [dB] dB(uVolts/meter) 15.209 Mar 50.00 FCC Part 15 Subpart C 10.00 Mar 50.00 Mar 50.0	Su Margin Pe -15.28 -30.47 -16.87 -31.08	ubpart C eak 74 74 74	Margin -35.28 -50.47 -36.87	[Degs] 191 191	[cm] 323	Horz
AF-48106 BOMS Factor GB GB GB GB GB GB GB GB GB G	Su Margin Pe -15.28 -30.47 -16.87 -31.08	ubpart C eak 74 74 74	Margin -35.28 -50.47 -36.87	[Degs] 191 191	[cm] 323	Horz
4804 64.11 PK 27.3 -52.69 38.72 54 -15 4804 48.92 Av 27.3 -52.69 23.53 54 -30 4804 62.52 PK 27.3 -52.69 37.13 54 -16 4804 48.31 Av 27.3 -52.69 22.92 54 -31 Mid Channel - 2441MHz Test Frequency Meter Reading Detector [dB] BOMS Factor [dB] dB(uVolts/meter) 15.209 Mar 4882 66.42 PK 27.5 -52.5 41.42 54 -12	-15.28 -30.47 -16.87 -31.08	74 74 74	-35.28 -50.47 -36.87	191 191	323	Horz
4804 48.92 Av 27.3 -52.69 23.53 54 -30 4804 62.52 PK 27.3 -52.69 37.13 54 -16 4804 48.31 Av 27.3 -52.69 22.92 54 -31 Mid Channel - 2441MHz Test Frequency Meter Reading Detector [dB] BOMS Factor [dB] dB(uVolts/meter) 15.209 Mar 4882 66.42 PK 27.5 -52.5 41.42 54 -12	-30.47 -16.87 -31.08	74 74	-50.47 -36.87	191	323	
A804 62.52 PK 27.3 -52.69 37.13 54 -16 4804 48.31 Av 27.3 -52.69 22.92 54 -31 Mid Channel - 2441MHz	-16.87 -31.08	74	-36.87			Horz
AF-48106 BOMS Factor GB GB Weter Reading Detector GB GB GB GB GB GB GB G	-31.08			309		Vert
AF-48106 BOMS Factor GB			-51.08			Vert
AF-48106 BOMS Factor GB						
4882 66.42 PK 27.5 -52.5 41.42 54 -12	Su	CC Part 15 ubpart C		Azimuth	_	
	Margin Pe			[Degs]		
			-32.58			Horz
	-29.26		-49.26			Horz
4882 66.93 PK 27.5 -52.5 41.93 54 -12			-32.07			Vert
4882 50.3 Av 27.5 -52.5 25.3 54 -2	-28.7	74	-48.7	33	202	Vert
High Channel - 2480MHz						
AF-48106 BOMS Factor Subpart C Test Frequency Meter Reading Detector [dB] [dB] dB(uVolts/meter) 15.209 Mar		CC Part 15 ubpart C eak		Azimuth	_	Polarit
4960.2568 60.1 PK 27.4 -52.34 35.16 54 -18			-38.84		-	Vert
4960.2568 48.46 Av 27.4 -52.34 23.52 54 -30	-30.48	74	-50.48	360	270	Vert
4960 63.33 PK 27.4 -52.34 38.39 54 -15	-15.61	74	-35.61	70	240	Horz
4960 48.4 Av 27.4 -52.34 23.46 54 -30	-30.54	74	-50.54	70	240	Horz
PK - Peak detector						
Av-Average detector						

8.3. WORST-CASE BELOW 1 GHz

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



Manufacturer:L	enovo									
Device:Tablet with BT Model:TP00043 - SKU3										
Tested by:MA	ST Mode (8PSK)									
Horizontal 30 - 2	200MHz									
				GL-3M		FCC Part 15 Subpart C		Azimuth	_	
	Meter Reading			(dB)	dB(uVolts/meter)		Margin		[cm]	Polarity
54.3343	23.56	PK	8	0.7	32.26	40	-7.74	54	299	Horz
Vertical 30 - 200	DMHz									
Test Frequency	Meter Reading	Detector		GL-3M (dB)	dB(uVolts/meter)	FCC Part 15 Subpart C 15.209	Margin	Azimuth [Degs]	Height [cm]	Polarity
42.9329	21.34	PK	12.5	0.7	34.54	40	-5.46	114	100	Vert
47.1872	21.19	PK	10.8	0.7	32.69	40	-7.31	8	100	Vert
83.9439	25.18	PK	7.6	1	33.78	40	-6.22	114	100	Vert
144.014	23.48	PK	14.1	1.2	38.78	43.5	-4.72	358	100	Vert
186.8969	19.27	PK	15.4	1.5	36.17	43.5	-7.33	8	100	Vert
Vertical 30 - 200	DMHz									
Test Frequency	Meter Reading	Detector		GL-3M [dB]	dB(uVolts/meter)	FCC Part 15 Subpart C 15.209	Margin	Azimuth [Degs]		Polarity
42.9361		-	12.5	0.7	24.76	40	-15.24	335	202	Vert
143.9802	22.78	QP	14.1	1.2	38.08	43.5	-5.42	320	112	Vert
PK - Peak detect	tor									
QP - Quasi-Peak	detector									