



FCC 47 CFR PART 15 SUBPART B
DECLARATION OF CONFORMITY TEST REPORT
FOR

Tablet with 802.11abgn, BT3.0

MODEL NUMBER: GT-P6210

FCC ID: A3LGTP6210

REPORT NUMBER: 11I14021-4

ISSUE DATE: SEPTEMBER 21, 2011

Prepared for
SAMSUNG ELECTRONICS CO., LTD.
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Revision History

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
416, MAETAN 3-DONG, YEONGTONG-GU
SUWON-CITY, GYEONGGI-DO, 443-742, SOUTH KOREA

EUT DESCRIPTION: Tablet with 802.11abgn, BT3.0

MODEL: GT-P6210

SERIAL NUMBER: 02058

DATE TESTED: SEPTEMBER 13 to 14, 2011

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART B	Pass

Compliance Certification Services (UL 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 UL 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 UL CCS and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL 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:



STEVE LEITNER
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EMC ENGINEER
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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003.

3. FACILITIES AND ACCREDITATION

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

UL 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 tablet PC with an 802.11a/b/g/n transceiver and Bluetooth transceiver.

GENERAL INFORMATION

Power Requirements	Input: 100-240 VAC / 50-60 Hz, 0.35 A Output: 5 V, 2 A
Maximum frequency generated or used by the EUT	26 MHz (oscillator), 1.2 GHz (processor)

5.2. EUT SUBASSEMBLIES

Description	Model Number	Serial Number
Tablet PC	GT-P6210	02058
AC Adapter (illustrated as AC Adapter 1 in setup diagram)	SE1M803DS/B-E	02056
Headset	GH59-10443F	02049

5.3. PRELIMINARY TEST CONFIGURATIONS

The following configurations were investigated during preliminary testing:

EUT Configuration	Description
Configuration 1	The EUT populated with a headset was connected to the AC mains with an ac adapter.
Configuration 2	The EUT populated with a headset was connected to a USB port of a notebook PC with a minimum set of peripherals.

The worst-case configuration was determined to be Configuration 1. The worst-case orientation was determined to be in the "Y" axis.

5.4. MODE(S) OF OPERATION

Mode	Description
Charge Mode	The batteries of the EUT were charged while set up in Configuration 1.
USB Mode	While set up in Configuration 2 the EUT played a looping audio file and alternated the screen between black and white blocks with the backlight set to full brightness.

5.5. SOFTWARE AND FIRMWARE

Bluetooth firmware - HCI Stack 4.0 (Software version 26A)
Wi-Fi Firmware Rev 3.1.1.401

EUT driver software version: P6210.001

5.6. MODIFICATIONS

No modifications were made during testing.

5.7. DETAILS OF TESTED SYSTEM

SUPPORT EQUIPMENT & PERIPHERALS

CONFIGURATION 1

No support or peripheral equipment used.

CONFIGURATION 2

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
Notebook PC	Lenovo	Type 2537-C84	R8-2K96F	DoC
AC Adapter	Lenovo	42T4418	11S42T4418Z1ZG	DoC
USB Printer	Microline 186	D22300A	AC5C018494A0	DoC
USB Mouse	Logitech	M-BE58	HCA40202931	DoC

I/O CABLES

CONFIGURATION 1

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	DC Power	1	USB	Shielded	1 m	Standard A USB at ac adapter end, 30-pin connector at EUT end
2	Audio	1	Mini-Jack	Unshielded	1.2 m	

CONFIGURATION 2

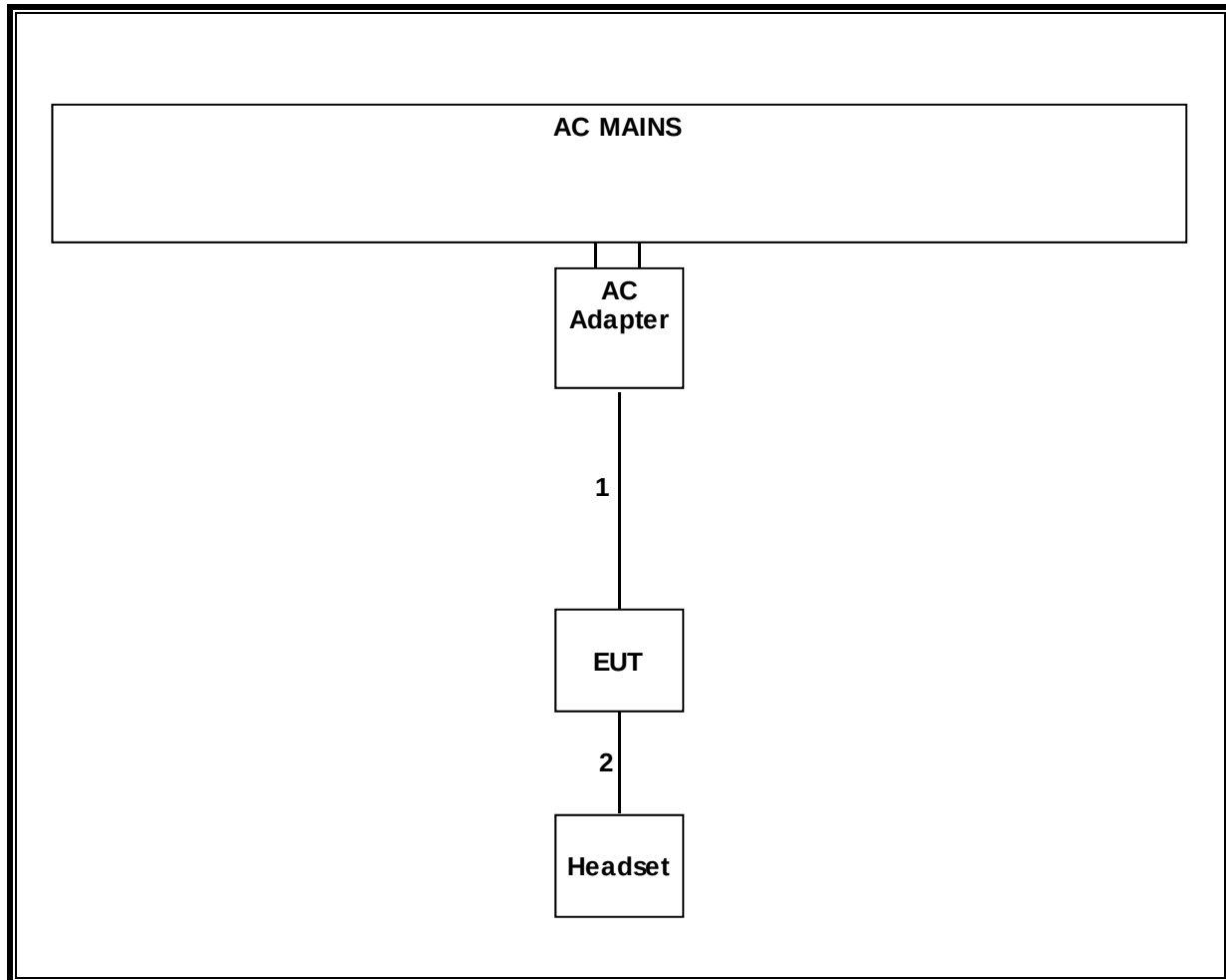
I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	AC Power	1	2-Prong	Unshielded	1 m	
2	AC Power	1	2-Prong	Unshielded	1.5 m	
3	DC Power	1	Mini-Jack	Unshielded	1.75 m	Ferrite at PC End
4	USB	1	USB-A	Shielded	2 m	
5	USB	1	USB-A	Shielded	1.75 m	
6	USB	1	USB	Shielded	1 m	Standard A USB at PC end, 30-pin connector at EUT end
7	Audio	1	Mini-Jack	Unshielded	1.2 m	

TEST SETUP

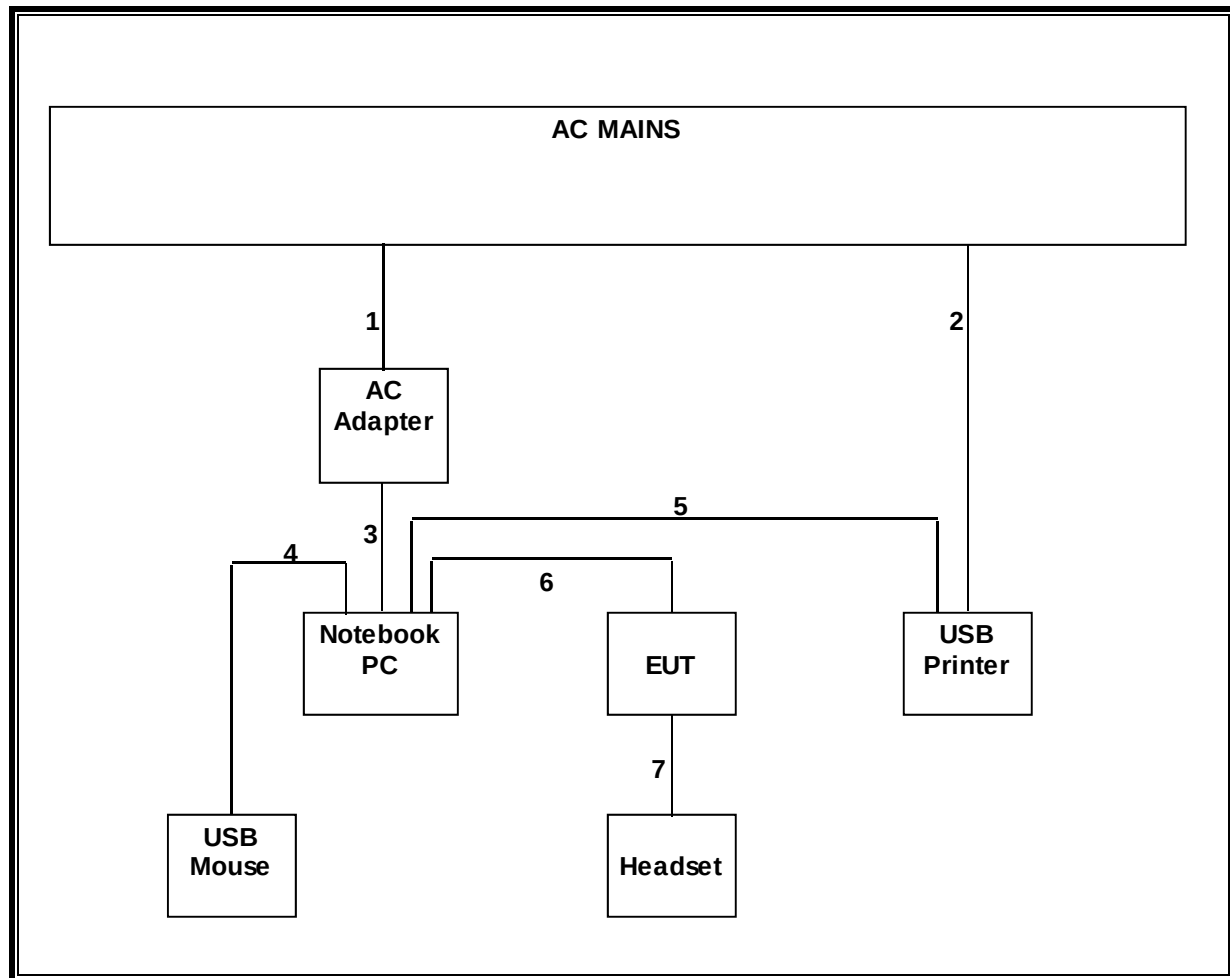
The EUT was installed in a typical configuration per the following diagrams. Test software exercised the EUT.

TEST SETUP DIAGRAM

CONFIGURATION 1



CONFIGURATION 2



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	Serial Number	Cal Due
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01178	08/15/12
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01016	07/16/12
Preamplifier, 1300 Hz	Agilent / HP	8447D	C00580	01/27/12
Antenna, Horn, 18 GHz	EMCO	3115	C00783	06/29/12
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01063	07/12/12
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01176	08/04/12
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01171	07/16/12
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00558	01/27/12
Antenna, Horn, 18 GHz	EMCO	3115	C01218	09/01/12
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C00749	07/18/12
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01179	04/19/12
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01011	07/16/12
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00885	01/27/12
Antenna, Horn, 18 GHz	EMCO	3115	C00945	06/29/12
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01052	07/12/12
EMI Test Receiver, 9 kHz-7 GHz	R & S	ESCI 7	1000741	07/06/12
LISN, 30 MHz	FCC	LISN-50/250-25-2	N02625	11/10/11
LISN, 30 MHz	Solar	8012-50-R-24-BNC	N02481	11/10/11

7. APPLICABLE LIMITS AND TEST RESULTS

7.1. RADIATED EMISSIONS

TEST PROCEDURE

ANSI C63.4

The highest clock frequency generated or used in the EUT is 1200 MHz, therefore the frequency range was investigated from 30 MHz to 6000 MHz.

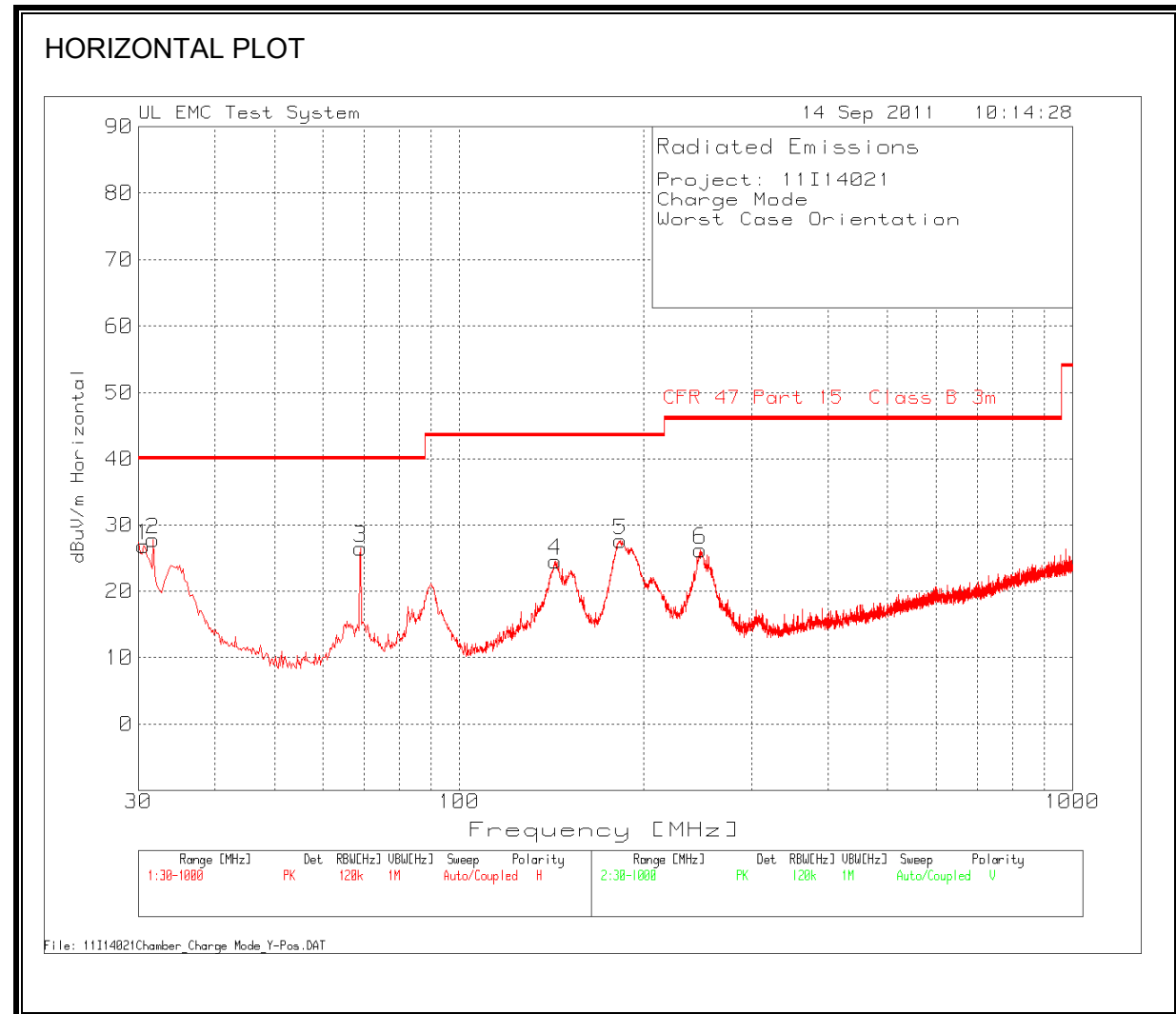
LIMIT

§15.109 (a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Limits for radiated disturbance of Class B ITE at measuring distance of 3 m	
Frequency range (MHz)	Quasi-peak limits (dB μ V/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960 MHz	54
Note: The lower limit shall apply at the transition frequency.	

RESULTS

RADIATED EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION) – CONFIGURATION 1



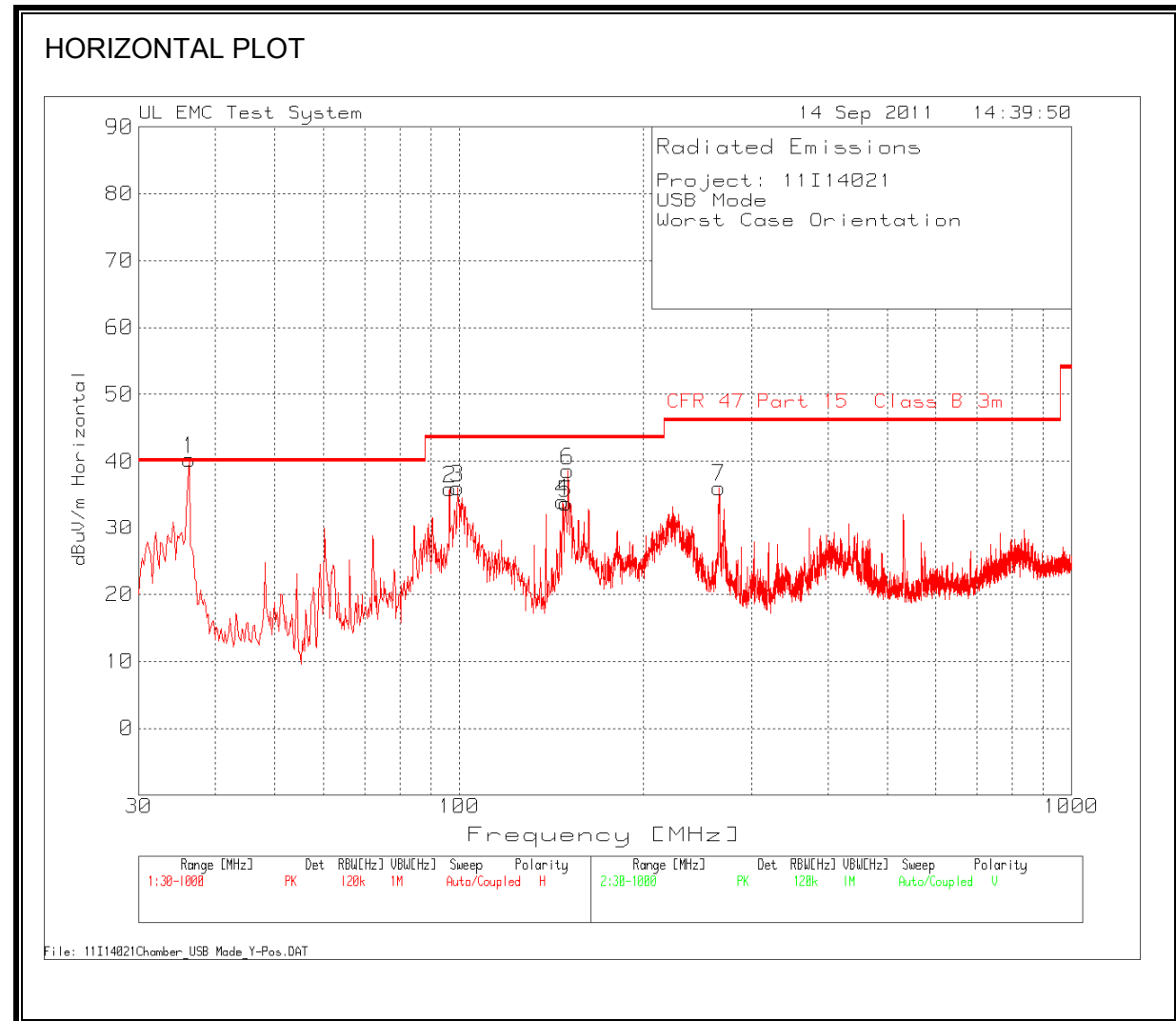
VERTICAL PLOT



HORIZONTAL AND VERTICAL DATA

Project: 11I14021										
Charge Mode										
Y-Position										
Test Freq. (MHz)	Meter Reading (dBuV)	Detector	Cable Loss [dB]	Pre-Amp Gain [dB]	Antenna Factor [dB]	dBuV/m	FCC Class B 3m Limit	Margin	Height [cm]	Polarity
30.5815	34.89	PK	0.6	-28.3	19.7	26.89	40	-13.11	176	Horz
31.7446	36.38	PK	0.6	-28.3	19.1	27.78	40	-12.22	176	Horz
69.1567	45.44	PK	0.9	-28.1	8.2	26.44	40	-13.56	176	Horz
143.5931	38.28	PK	1.2	-27.9	13	24.58	43.5	-18.92	100	Horz
183.1375	43.02	PK	1.3	-27.7	11	27.62	43.5	-15.88	100	Horz
247.3002	40.32	PK	1.6	-27.5	11.8	26.22	46	-19.78	100	Horz
30.5815	48.03	PK	0.6	-28.3	19.7	40.03	40	0.03	100	Vert
30.5815	45.13	QP	0.6	-28.3	19.7	37.13	40	-2.87	100	Vert
33.8769	48.04	PK	0.6	-28.3	18.1	38.44	40	-1.56	100	Vert
33.8769	46.18	QP	0.6	-28.3	18.1	36.58	40	-3.42	100	Vert
35.04	48.63	PK	0.6	-28.3	17.5	38.43	40	-1.57	100	Vert
35.04	46.81	QP	0.6	-28.3	17.5	36.61	40	-3.39	100	Vert
142.8177	36.15	PK	1.2	-27.9	13	22.45	43.5	-21.05	100	Vert
182.1683	45.98	PK	1.3	-27.7	10.9	30.48	43.5	-13.02	100	Vert
765.06	31.18	PK	2.8	-28.1	20.2	26.08	46	-19.92	176	Vert
PK - Peak detector										
QP - Quasi-Peak detector										
Av - Average detector										

RADIATED EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION) – CONFIGURATION 2



VERTICAL PLOT



HORIZONTAL AND VERTICAL DATA

Project: 11I14021										
USB Mode										
Y-Position										
Test Freq. (MHz)	Meter Reading (dBuV)	Detector	Cable Loss [dB]	Pre-Amp Gain [dB]	Antenna Factor [dB]	dBuV/m	FCC Class B 3m Limit	Margin	Height [cm]	Polarity
36.203	51.43	PK	0.7	-28.3	16.5	40.33	40	0.33	250	Horz
36.203	47.07	QP	0.7	-28.3	16.5	35.97	40	-4.03	250	Horz
96.4888	54.37	PK	1	-28.1	8.6	35.87	43.5	-7.63	176	Horz
99.3965	53.93	PK	1	-28.1	9.2	36.03	43.5	-7.47	176	Horz
147.6639	47.89	PK	1.2	-27.9	12.8	33.99	43.5	-9.51	250	Horz
149.2146	47.75	PK	1.2	-27.9	12.7	33.75	43.5	-9.75	176	Horz
150.5715	52.52	PK	1.2	-27.8	12.7	38.62	43.5	-4.88	176	Horz
265.3277	49.51	PK	1.7	-27.4	12.3	36.11	46	-9.89	100	Horz
31.1631	46.18	PK	0.6	-28.3	19.4	37.88	40	-2.12	100	Vert
31.1631	44.02	QP	0.6	-28.3	19.4	35.72	40	-4.28	100	Vert
32.3261	44.65	PK	0.6	-28.3	18.9	35.85	40	-4.15	100	Vert
48.2214	50.32	PK	0.8	-28.2	10.2	33.12	40	-6.88	176	Vert
147.47	45.44	PK	1.2	-27.9	12.8	31.54	43.5	-11.96	100	Vert
149.4085	47.61	PK	1.2	-27.9	12.7	33.61	43.5	-9.89	100	Vert
150.5715	50.91	PK	1.2	-27.8	12.7	37.01	43.5	-6.49	100	Vert
265.9093	48.62	PK	1.7	-27.4	12.3	35.22	46	-10.78	176	Vert
PK - Peak detector										
QP - Quasi-Peak detector										
Av - Average detector										

RADIATED EMISSIONS ABOVE 1000 MHz – CONFIGURATION 1

HORIZONTAL AND VERTICAL DATA

High Frequency Measurement																	
Compliance Certification Services, Fremont 3m Chamber																	
Company: Samsung																	
Project #: 11114021																	
Date: 09/14/11																	
Test Engineer: Doug Anderson																	
Configuration: EUT Stand-Alone in Worst Case Orientation																	
Mode: Charge Mode																	
Test Equipment:																	
Horn 1-18GHz			Pre-amplifier 1-26GHz			Pre-amplifier 26-40GHz			Horn > 18GHz			Limit					
T217; S/N: 5118 @3m			T34 HP 8449B									FCC Class B					
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	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)		
VERTICAL:																	
1.000	3.0	38.3	24.3	24.6	2.8	-37.8	0.0	0.0	27.9	13.9	74	54	-46.1	-40.1	V, Noise Floor		
HORIZONTAL:																	
7.210	3.0	37.9	23.6	36.5	9.1	-33.2	0.0	0.0	50.3	36.0	74	54	-23.7	-18.0	H, Noise Floor		
No Significant Emissions Found Above the Noise Floor																	
Rev. 07.08.11																	
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										

RADIATED EMISSIONS ABOVE 1000 MHz – CONFIGURATION 2

HORIZONTAL AND VERTICAL DATA

High Frequency Measurement																
Compliance Certification Services, Fremont 3m Chamber																
Company: Samsung																
Project #: 11114021																
Date: 09/14/11																
Test Engineer: Doug Anderson																
Configuration: EUT Connect to USB Port of Notebook PC with Minimum Complement of Support Peripherals																
Mode: USB Mode																
Test Equipment:																
Horn 1-18GHz			Pre-amplifier 1-26GHz			Pre-amplifier 26-40GHz			Horn > 18GHz			Limit				
T217; S/N: 5118 @3m			T34 HP 8449B									FCC Class B				
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	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)	
VERTICAL:																
1.333	3.0	46.0	40.0	25.9	3.2	-37.3	0.0	0.0	37.8	31.8	74	54	-36.2	-22.2	V	
2.124	3.0	55.4	33.3	28.5	4.2	-36.1	0.0	0.0	52.0	29.9	74	54	-22.0	-24.1	V	
1.509	3.0	58.2	35.2	26.6	3.4	-37.0	0.0	0.0	51.1	28.1	74	54	-22.9	-25.9	V	
1.600	3.0	62.9	33.9	26.9	3.5	-36.9	0.0	0.0	56.4	27.4	74	54	-17.6	-26.6	V	
1.409	3.0	53.3	31.9	26.2	3.3	-37.2	0.0	0.0	45.6	24.2	74	54	-28.4	-29.8	V	
1.200	3.0	48.5	33.2	25.4	3.0	-37.5	0.0	0.0	39.4	24.1	74	54	-34.6	-29.9	V	
HORIZONTAL:																
1.667	3.0	53.1	34.4	27.2	3.6	-36.8	0.0	0.0	47.0	28.4	74	54	-27.0	-25.6	H	
1.599	3.0	57.0	33.2	26.9	3.5	-36.9	0.0	0.0	50.5	26.7	74	54	-23.5	-27.3	H	
2.120	3.0	50.3	29.8	28.5	4.2	-36.1	0.0	0.0	46.8	26.3	74	54	-27.2	-27.7	H	
1.374	3.0	58.6	32.1	26.1	3.3	-37.2	0.0	0.0	50.6	24.1	74	54	-23.4	-29.9	H	
1.420	3.0	47.9	31.6	26.2	3.3	-37.2	0.0	0.0	40.2	24.0	74	54	-33.8	-30.0	H	
1.200	3.0	54.2	32.7	25.4	3.0	-37.5	0.0	0.0	45.1	23.6	74	54	-28.9	-30.4	H	
Rev. 07.08.11																
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											

7.2. AC MAINS LINE CONDUCTED EMISSIONS

TEST PROCEDURE

ANSI C63.4

LIMIT

§15.107 (a) Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

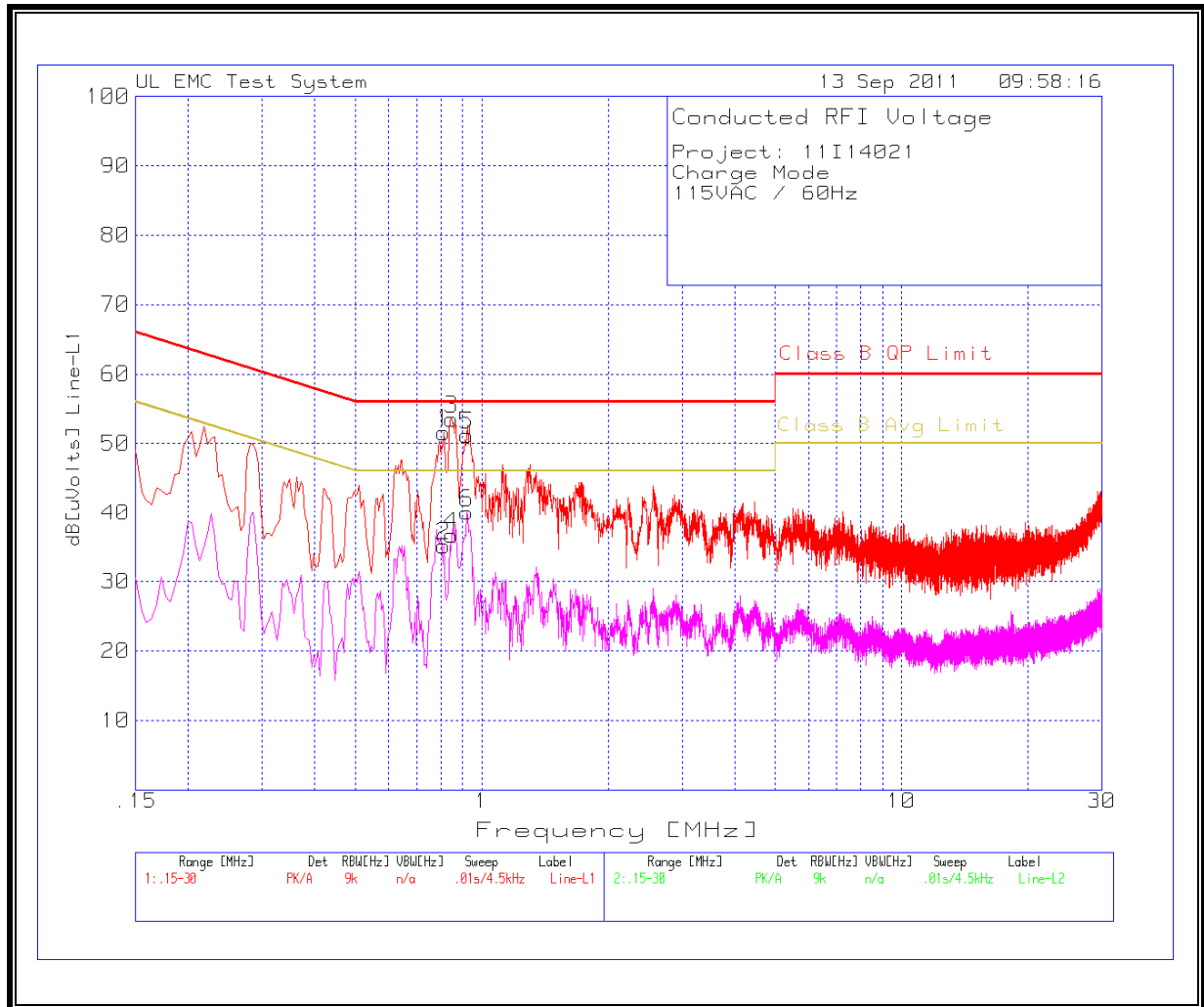
Frequency range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Notes: 1. The lower limit shall apply at the transition frequencies 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

RESULTS – CONFIGURATION 1

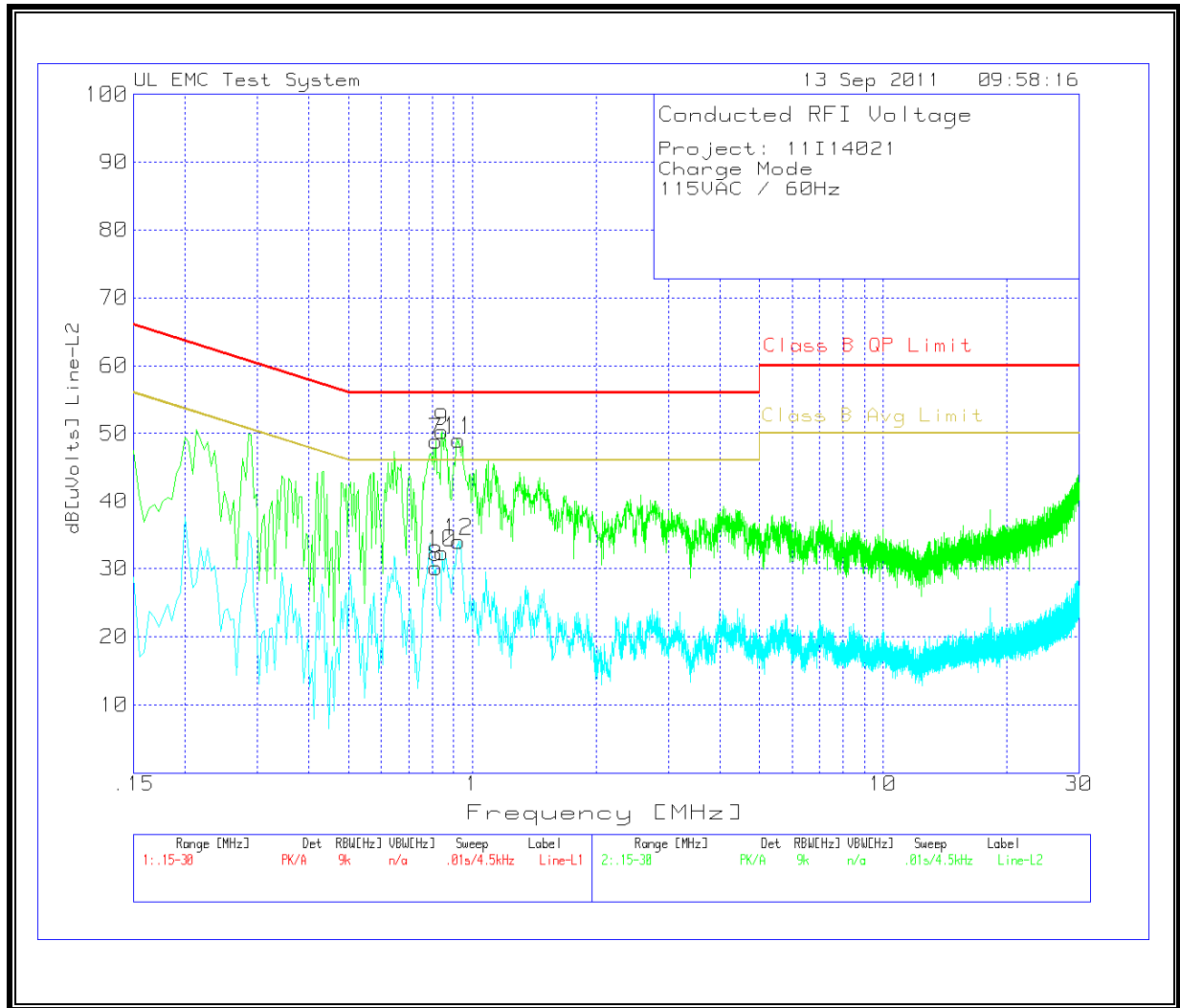
6 WORST EMISSIONS

Project: 11I14021							
Charge Mode							
115VAC / 60Hz							
Test Freq. (MHz)	Meter Reading	Detector	Correct Reading (dBuVolts)	Class B Quasi-peak Limit	Quasi- Peak Margin	Class B Average Limit	Average Margin
Line-L1 .15 - 30MHz							
0.8115	51.54	PK	51.54	56	-4.46	--	--
0.8115	35.11	Av	35.11	--	--	46	-10.89
0.8475	53.52	PK	53.52	56	-2.48	--	--
0.8475	36.63	Av	36.63	--	--	46	-9.37
0.9195	51.23	PK	51.23	56	-4.77	--	--
0.9195	40.01	Av	40.01	--	--	46	-5.99
Line-L2 .15 - 30MHz							
0.816	48.88	PK	48.88	56	-7.12	--	--
0.816	30.08	Av	30.08	--	--	46	-15.92
0.843	50.32	PK	50.32	56	-5.68	--	--
0.843	32.36	Av	32.36	--	--	46	-13.64
0.924	49.07	PK	49.07	56	-6.93	--	--
0.924	33.95	Av	33.95	--	--	46	-12.05
PK - Peak detector							
QP - Quasi-Peak detector							
Av - Average detector							

LINE 1 RESULTS



LINE 2 RESULTS

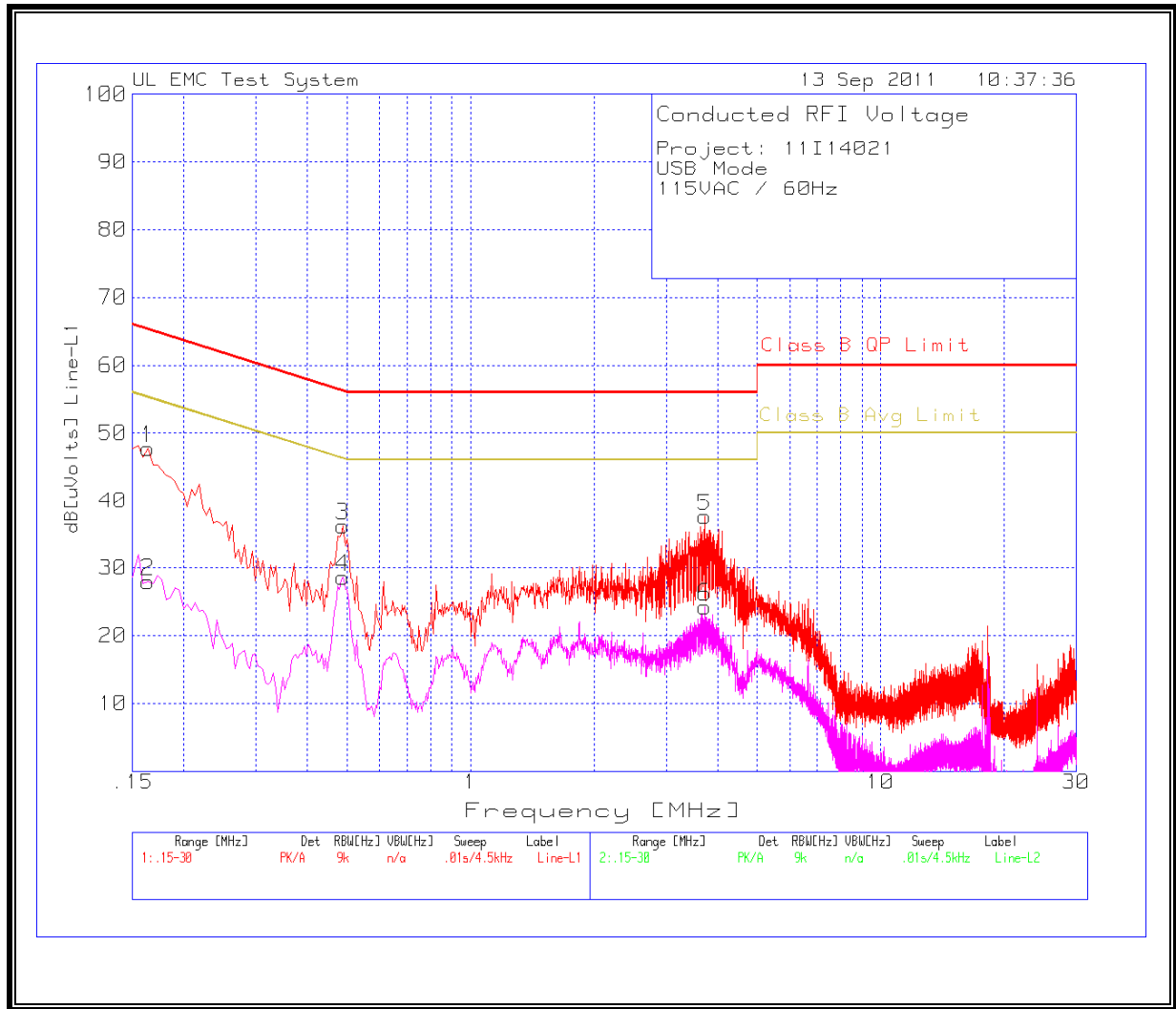


RESULTS – CONFIGURATION 2

6 WORST EMISSIONS

Project: 11I14021									
USB Mode									
115VAC / 60Hz									
Test Freq. (MHz)	Meter Reading	Detector	LISN [dB]	Conducted Emission Cable [dB]	Correct Reading (dBuVolts)	Class B Quasi-peak Limit	Quasi- Peak Margin	Class B Average Limit	Average Margin
Line-L1 .15 - 30MHz									
0.1635	47.78	PK	0	0	47.78	65.3	-17.52	--	--
0.1635	27.93	Av	0	0	27.93	--	--	55.3	-27.37
0.4875	36.19	PK	0	0	36.19	56.2	-20.01	--	--
0.4875	28.55	Av	0	0	28.55	--	--	46.2	-17.65
3.7185	37.6	PK	0	0	37.6	56	-18.4	--	--
3.7185	24.28	Av	0	0	24.28	--	--	46	-21.72
Line-L2 .15 - 30MHz									
0.15	49.15	PK	0	0	49.15	66	-16.85	--	--
0.15	30.01	Av	0	0	30.01	--	--	56	-25.99
0.4875	35.73	PK	0	0	35.73	56.2	-20.47	--	--
0.4875	27.89	Av	0	0	27.89	--	--	46.2	-18.31
3.975	38.11	PK	0	0	38.11	56	-17.89	--	--
3.975	20.9	Av	0	0	20.9	--	--	46	-25.1
PK - Peak detector									
QP - Quasi-Peak detector									
Av - Average detector									

LINE 1 RESULTS



LINE 2 RESULTS

