

EMC TEST REPORT

Test item : LED TV Monitor
Model No. : 55LN5100-UB
Order No. : DEMC1306-01899
Date of receipt : 2013-06-17
Test duration : 2013-06-21
Use of report : FCC CoC Marking
Date of Issue : 2013-06-28

Applicant : LG Electronics Inc.
19-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, 451-713, Korea
Test laboratory : Digital EMC Co., Ltd.
683-3, Yubang-Dong, Cheoin-Gu, Yongin-Si, Gyeonggi-Do, 449-080, Korea

Test specification : ANSI C 63.4:2003
FCC Part 15 Subpart B
(Type of Device : Class B Personal Computers
and Peripherals (JBP))

Test environment : Temperature : (23 ~ 28) °C,
Humidity : (42 ~ 50) % R.H.

Test result : ☒ Comply ☐ Not Comply

The test results presented in this test report are limited only to the sample supplied by applicant and
the use of this test report is inhibited other than its purpose.
This test report shall not be reproduced except in full, without the written approval of DIGITAL EMC CO., LTD.

Tested by:



Engineer
JunHo Park

Reviewed by:



Technical Manager
ChangHo Lee

PRESIDENT OF DIGITAL EMC CO., LTD.

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1. General Remarks

This report contains the result of tests performed by:

DIGITAL EMC CO., LTD.

Address : 683-3, Yubang-Dong, Cheoin-Gu, Yongin-Si, Gyeonggi-Do, 449-080, Korea

<http://www.digitalemcc.com>

Tel: +82-31-321-2664 Fax: +82-31-321-1664

2. Test Laboratory

Digital EMC Co., Ltd. has been accredited / filed / authorized by the agencies listed in the following table;

Certificate	Nation	Agency	Code	Mark
Accreditation	Korea	KOLAS	393	ISO/IEC 17025
Site Filing	USA	FCC	101842 678747	Test Facility list & NSA Data
	Canada	IC	5740A-1 5740A-2	Test Facility list & NSA Data
	Japan	VCCI	C-1427 R-1364, R-3385 T-1442, G-338	Test Facility list & NSA Data
Certification	Korea	KC	KR0034	Test Facility list & NSA Data
	Germany	TUV	ROK1221C	ISO/IEC 17025

Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the "General requirements for the competent of calibration and testing laboratory".

3. General Information of EUT

Model No.	55LN5100-UB
EUT Type	LED TV Monitor
Serial No	NONE
FCC ID	BEJ55LN5100UB
Type of Sample Tested	Pre-Production
High Frequency	800 MHz
Rating	AC 100-240 V~ 50/60 Hz
Supplied Power for Test	AC 120 V, 60 Hz
Applicant	LG Electronics Inc. 19-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, 451-713, Korea
Manufacturer	LG Electronics Inc. 19-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, 451-713, Korea

HDMI (PC) supported mode

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
640 x 350	31.468	70.09
720 x 400	31.469	70.08
640 x 480	31.469	59.94
800 x 600	37.879	60.31
1024 x 768	48.363	60.00
1360 x 768	47.712	60.015
1152 x 864	54.348	60.053
1280 x 1024	63.981	60.02
1920 x 1080	67.50	60.00

4. Test Summary

4.1 Applied standards and test results

Test Items	Applied Standards	Results
Conducted Disturbance	ANSI C63.4:2003	C
Radiated Disturbance	ANSI C63.4:2003	C
C=Comply N/C=Not Comply N/T=Not Tested N/A=Not Applicable		

The data in this test report are traceable to the national or international standards.

4.2 Test environment and conditions

Test Items	Test date (MM-DD)	Temp (°C)	Humidity (% R.H.)
Conducted Disturbance	06-21	28	50
Radiated Disturbance	06-21	23	42

4.3 Test result Summary

(1) Conducted Emission (USB MODE)

Frequency [MHz]	Phase	Result [dBμV]	Detector	Limit [dBμV]	Margin [Db]
0.15061	N	57.5	Quasi-Peak	66.0	8.5

(2) Radiated Emission (USB MODE)

Frequency [MHz]	Pol.	Result [dB(μV/m)]	Detector	Limit [dB(μV/m)]	Margin [dB]
959.970	H	42.6	Quasi-Peak	46.0	3.4

5. Test Set-up and operation mode

5.1 Principle of Configuration Selection

Emission : The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

5.2 Test Operation Mode

- HDMI MODE : 'H' Pattern mode, 1920 x 1080 Resolution
- USB MODE : USB recorded file play

5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE				Backshell	FCC ID
				Connect type	Length (m)	ferrite core	shield		
PC	VOSTRO460	7L7JXBX	DELL INC.	POWER	1.8	Not use	Non-shield	Plastic	DOC
				HDMI	1.8		Shield		
				USB	1.6		Non-shield		
				USB	1.8		Non-shield		
				USB	1.6		Shield		
MOUSE	M-UAE96	LZ751AP01L3	LOGITECH Inc.	USB	1.6	Not use	Non-shield	Plastic	DOC
KEYBOARD	KB-065	CN11163233	HP	USB	1.8	Not use	Non-shield	Plastic	DOC
CD/DVD PLAYER	DVP-NS92V	2001499	SONY EMCS.	POWER	1.8	Not use	Non-shield	Plastic	VER
				RCA	1.6	Not use	Non-shield		
USB MEMORY	K-5	N/A	SAMSUNG	USB	-	-	-	-	DOC
PRINTER	SRP-770	N/A	Bixolon	USB	1.6	Not use	Shield	Plastic	DOC
				POWER	1.5	Not use	Non-shield		
Adapter (PRINTER)	N60-240250-I1	N60-240100-16	JIANGSU LEADER ELECTRONICS INC.	POWER	1.8	Not use	Non-shield	Plastic	VER
				DC OUT	1.7	Not use	Non-shield		
Remote Control	AKB73715608	N/A	OHSUNG ELECTRONICS CO. LTD.	-	-	-	-	-	-

6. Test Results : Emission

6.1 Conducted Disturbance

6.1.1 Measurement Procedure

In the range of 0.15 MHz to 30 MHz, the conducted disturbance was measured and set-up was made accordance with **ANSI C63.4**.

If the EUT is table top equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 0.4 m from the conducting wall of the shielded room.

Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane.

Connect the EUT's power source lines to the appropriate power mains / peripherals through the LISN. All the other peripherals are connected to the 2nd LISN, if any.

Unused measuring port of the LISN was resistively terminated by 50 ohm terminator.

The measuring port of the LISN for EUT was connected to spectrum analyzer.

Using conducted emission test software, the emissions were scanned with peak detector mode.

After scanning over the frequency range, suspected emissions were selected to perform final measurement. When performing final measurement, the receiver was used which has Quasi-Peak detector and Average detector.

By varying the configuration of the test sample and the cable routing it was attempted to maximize the emission.

For further description of the configuration refer to the picture of the test set-up.

6.1.2 Limit for Conducted Disturbance

(1) Conducted disturbance at mains ports.

Frequency range (MHz)	Limits dB(μV)			
	Quasi-peak		Average	
	Class A	Class B	Class A	Class B
0.15 to 0.50	79	66 to 56	66	56 to 46
0.50 to 5	73	56	60	46
5 to 30		60		50
Note 1 The lower limit shall apply at the transition frequencies.				
Note 2 The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Note) 1. Emission Level = Reading Value + Correction Factor.

2. Correction Factor = Cable Loss + Insertion Loss of LISN

3. Margin = Limit - Emission level

Test Result

< HDMI MODE >



Results of Conducted Emission

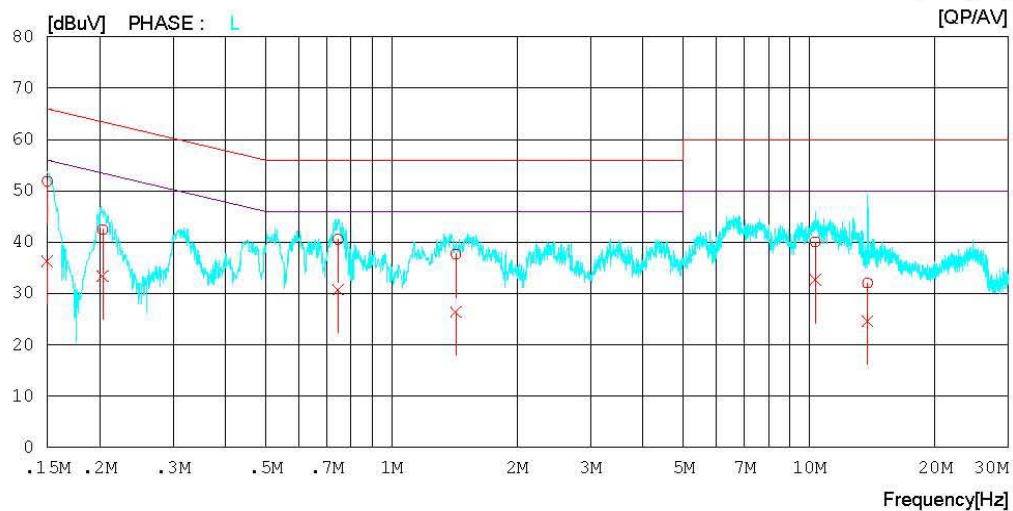
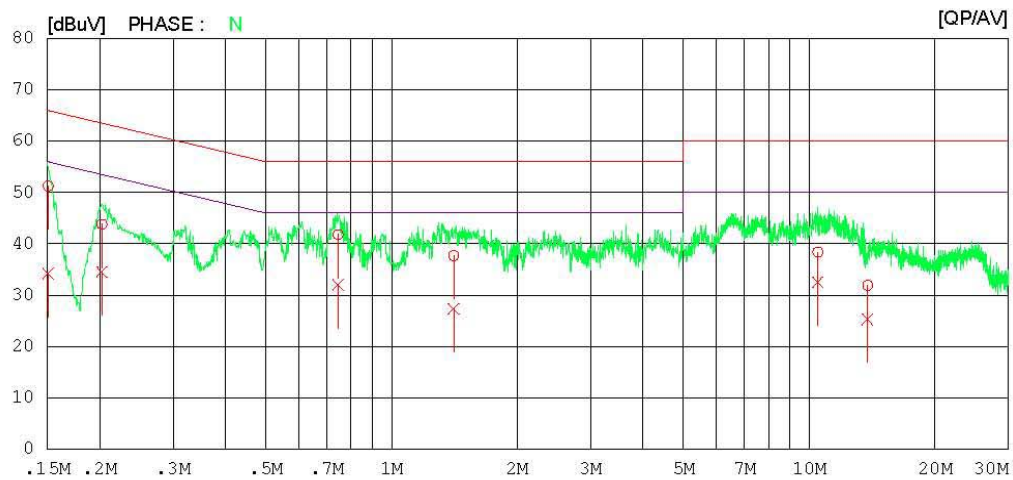
Digital EMC
Date : 2013-06-21

Model No. : 55LN5100-UB
Type :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 28 °C 50 % R.H.
Operator :

Memo : HDMI

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-06-21

Model No. : 55LN5100-UB
Type :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 28 °C 50 % R.H.
Operator :

Memo : HDMI

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15074	51.1	34.1	0.1	51.2	34.2	66.0	56.0	14.8	21.8	N
2	0.20268	43.7	34.4	0.1	43.8	34.5	63.5	53.5	19.7	19.0	N
3	0.74504	41.7	31.9	0.1	41.8	32.0	56.0	46.0	14.2	14.0	N
4	1.40900	37.6	27.2	0.1	37.7	27.3	56.0	46.0	18.3	18.7	N
5	10.49200	38.1	32.2	0.3	38.4	32.5	60.0	50.0	21.6	17.5	N
6	13.80350	31.6	25.0	0.3	31.9	25.3	60.0	50.0	28.1	24.7	N
7	0.15000	51.8	36.2	0.1	51.9	36.3	66.0	56.0	14.1	19.7	L
8	0.20338	42.4	33.3	0.1	42.5	33.4	63.5	53.5	21.0	20.1	L
9	0.74504	40.5	30.7	0.1	40.6	30.8	56.0	46.0	15.4	15.2	L
10	1.42750	37.6	26.3	0.1	37.7	26.4	56.0	46.0	18.3	19.6	L
11	10.34500	39.8	32.3	0.3	40.1	32.6	60.0	50.0	19.9	17.4	L
12	13.79450	31.7	24.3	0.3	32.0	24.6	60.0	50.0	28.0	25.4	L

< USB MODE >



Results of Conducted Emission

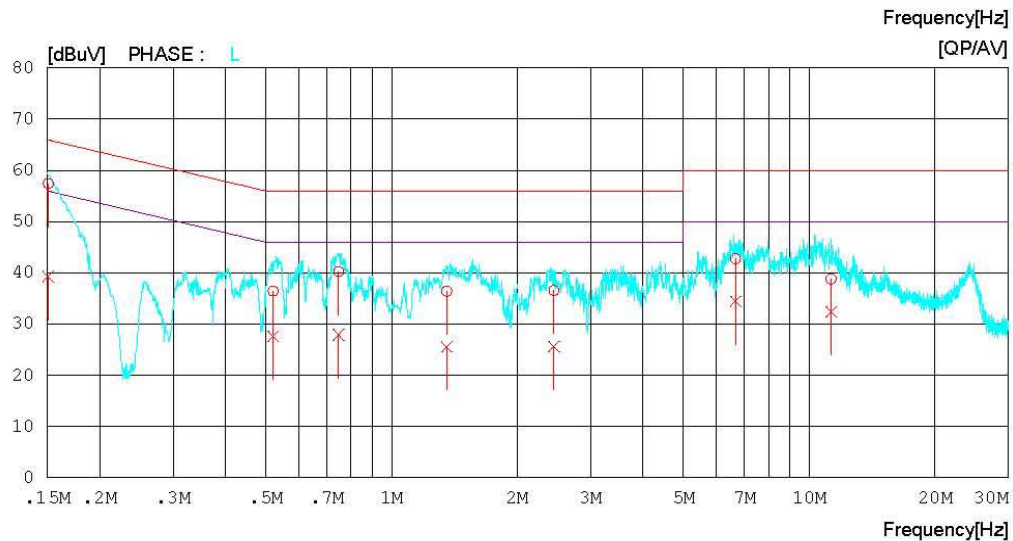
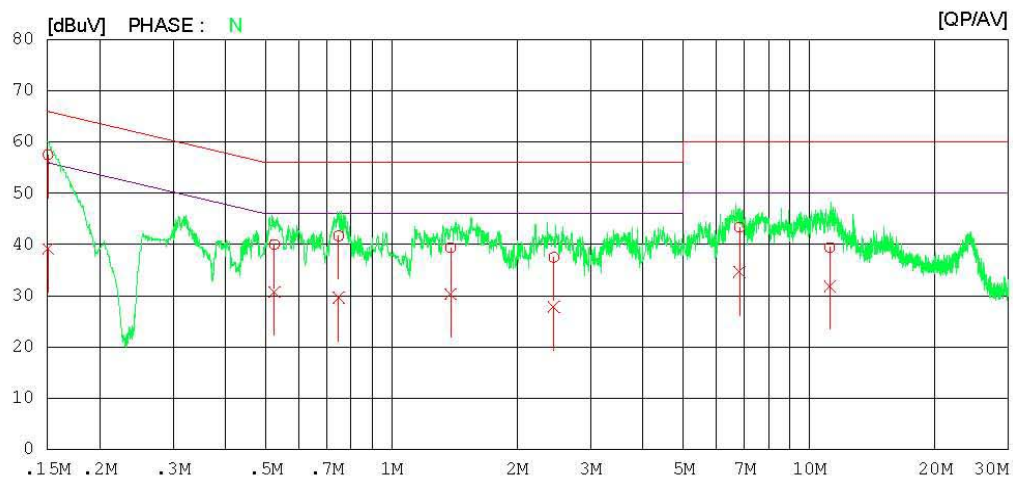
Digital EMC
Date : 2013-06-21

Model No. : 55LN5100-UB
Type :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 28 °C 50 % R.H.
Operator :

Memo : USB

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-06-21

Model No. : 55LN5100-UB
Type :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 28 °C 50 % R.H.
Operator :

Memo : USB

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15061	57.3	38.9	0.2	57.5	39.1	66.0	56.0	8.5	16.9	N
2	0.52434	39.8	30.5	0.2	40.0	30.7	56.0	46.0	16.0	15.3	N
3	0.74736	41.4	29.4	0.2	41.6	29.6	56.0	46.0	14.4	16.4	N
4	1.38450	39.1	30.0	0.3	39.4	30.3	56.0	46.0	16.6	15.7	N
5	2.44750	37.2	27.5	0.3	37.5	27.8	56.0	46.0	18.5	18.2	N
6	6.80400	42.8	34.1	0.5	43.3	34.6	60.0	50.0	16.7	15.4	N
7	11.20850	38.7	31.1	0.7	39.4	31.8	60.0	50.0	20.6	18.2	N
8	0.15085	57.2	39.1	0.2	57.4	39.3	66.0	56.0	8.6	16.7	L
9	0.52085	36.2	27.4	0.2	36.4	27.6	56.0	46.0	19.6	18.4	L
10	0.74736	40.0	27.7	0.2	40.2	27.9	56.0	46.0	15.8	18.1	L
11	1.35700	36.1	25.3	0.3	36.4	25.6	56.0	46.0	19.6	20.4	L
12	2.44900	36.3	25.3	0.3	36.6	25.6	56.0	46.0	19.4	20.4	L
13	6.66750	42.3	33.9	0.5	42.8	34.4	60.0	50.0	17.2	15.6	L
14	11.28800	38.1	31.7	0.7	38.8	32.4	60.0	50.0	21.2	17.6	L

6.2 Radiated Disturbance

6.2.1 Measurement Procedure

The radiated disturbance was measured and set-up was made accordance with **ANSI C63.4**.

If the EUT is tabletop equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 3 m or 10 m away from the interference receiving antenna in the **10m semi-anechoic chamber**.

Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane.

Rotate the EUT from (0 - 360)° and position the receiving antenna at heights from (1 - 4) m above the reference ground plane continuously to determine associated with higher emission levels and record them.

The measurement was made in both the vertical and horizontal polarization, and the maximum value is presented in the report.

For below 1 GHz frequency range, Quasi-Peak detector with 120 kHz RBW was used.

Also Peak and Average detector with 1 MHz RBW were used for above 1 GHz frequency range.

For further description of the configuration refer to the picture of the test set-up.

6.2.2 Limit for Radiated Disturbance

- The test frequency range of Radiated Disturbance measurements are listed below.

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 108	1 000
108 – 500	2 000
500 – 1 000	5 000
Above 1 000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

(1) Limit for Radiated Emission below 1 000MHz

Frequency range (MHz)	Class A Equipment (10 m distance)	Class B Equipment (3 m distance)
	Quasi-peak (dBμV/m)	Quasi-peak (dBμV/m)
30 to 88	39.1	40
88 to 216	43.5	43.5
216 to 960	46.4	46
960 to 1 000	49.5	54

Note 1 The lower limit shall apply at the transition frequency.

Note 2 Additional provisions may be required for cases where interference occurs.

Note 3 According to 15.109(g), as an alternative to the radiated emission limit shown above, digital devices may be shown to comply with the standards(CISPR), Pub. 22 shown as below.

Frequency range (MHz)	Class A Equipment (10 m distance)	Class B Equipment (10 m distance)
	Quasi-peak (dBμV/m)	Quasi-peak (dBμV/m)
30 to 230	40	30
230 to 1 000	47	37

(2) Limits for Radiated Emission above 1 000MHz at a measuring distance of 3 m

Frequency (GHz)	Class A Equipment		Class B Equipment	
	Peak (dBμV/m)	Average (dBμV/m)	Peak (dBμV/m)	Average (dBμV/m)
1 to 40	80	60	74	54

Note) 1. Emission Level = Reading Value + Correction Factor.

2. Correction Factor = Cable loss - Amp gain + Antenna Factor

3. Margin = Limit - Emission level

Test Result

< HDMI MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

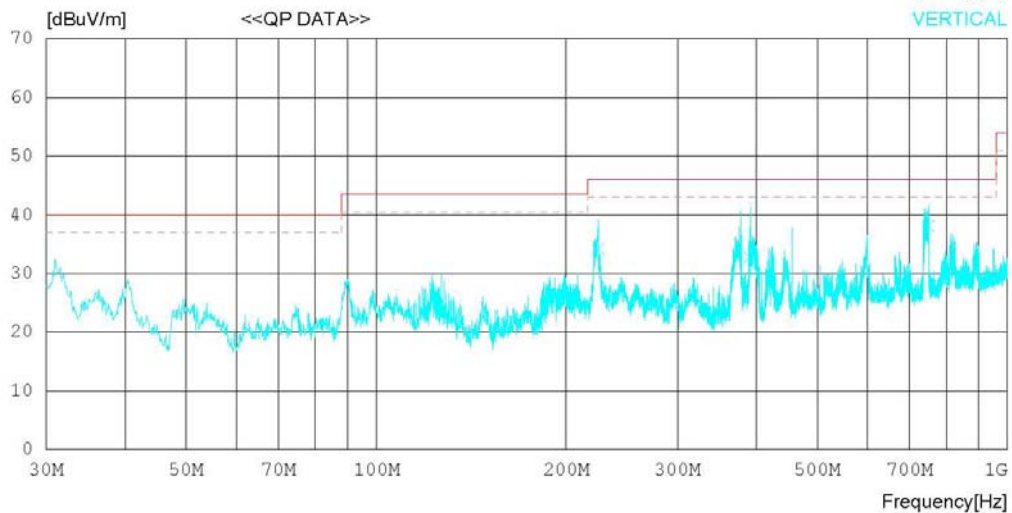
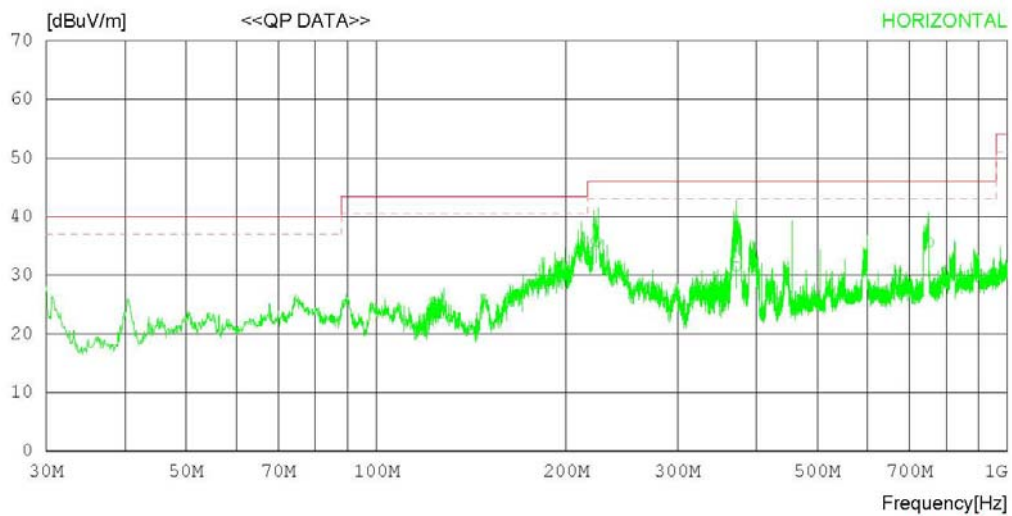
Date : 2013-06-21

Model Name : 55LN5100-UB
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 23 °C 42 % R.H.
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB



RADIATED EMISSION

Date : 2013-06-21

Model Name : 55LN5100-UB	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 23 °C 42 % R.H.
Test Condition : HDMI	Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	222.741	45.0	11.1	3.6	23.9	35.8	46.0	10.2	160	240
2	371.343	34.7	15.4	5.0	23.6	31.5	46.0	14.5	360	180
3	749.768	31.7	19.3	7.4	22.8	35.6	46.0	10.4	190	140
----- Vertical -----										
4	224.725	43.3	11.2	3.6	23.9	34.2	46.0	11.8	190	310
5	390.203	35.4	15.8	5.1	23.5	32.8	46.0	13.2	100	180
6	750.103	34.2	19.3	7.4	22.8	38.1	46.0	7.9	100	180

< HDMI MODE _ (1 ~ 6) GHz _ Peak >

RADIATED EMISSION

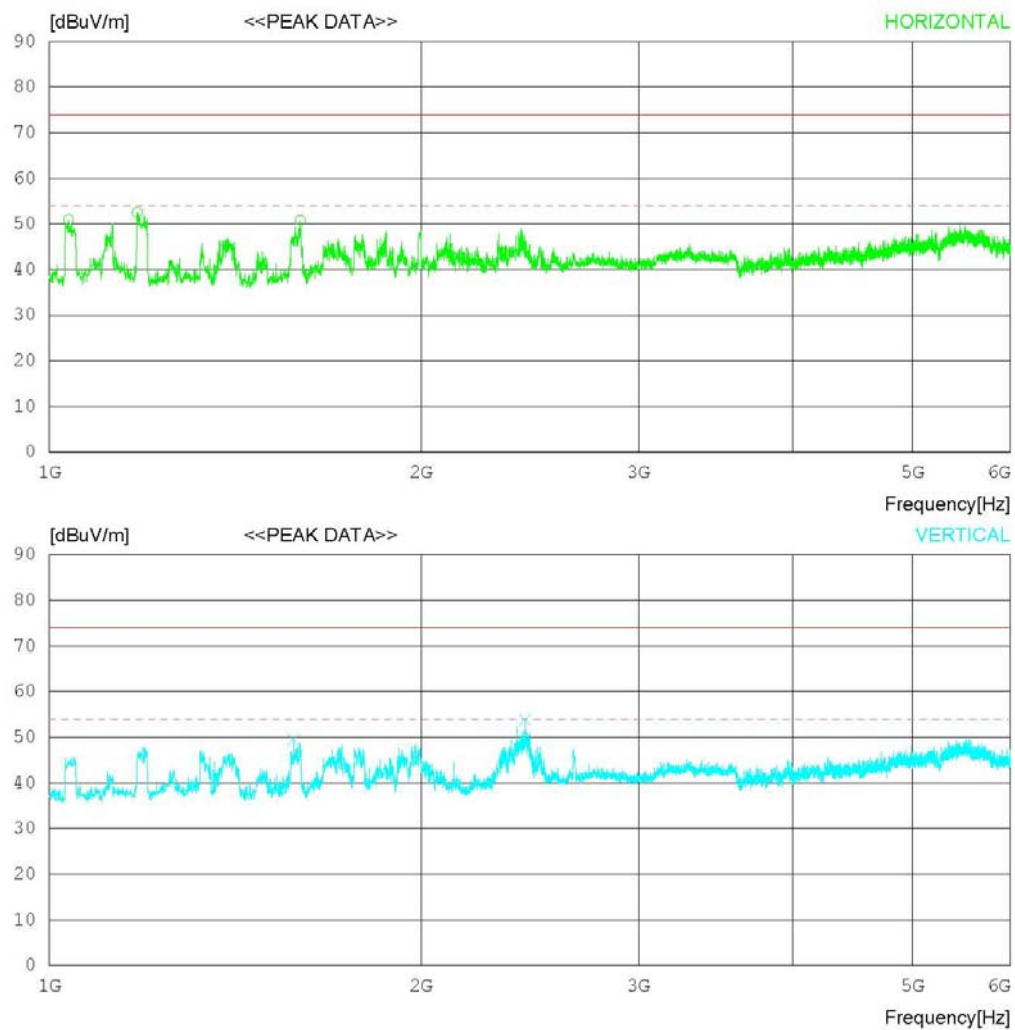
Date : 2013-06-21

Model Name : 55LN5100-UB
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 23 °C 42 % R.H.
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)



RADIATED EMISSION

Date : 2013-06-21

Model Name : 55LN5100-UB	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 23 'C 42 % R.H.
Test Condition : HDMI	Operator :

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Peak)
FCC Part15 Subpart B Class B (3m) - 18G(Avg)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1036.250	64.8	23.9	3.4	41.1	51.0	74.0	23	100	359
2	1178.125	65.6	24.1	3.6	40.8	52.5	74.0	21.5	100	122
3	1596.875	62.0	24.6	4.2	40.0	50.8	74.0	23.2	100	241
----- Vertical -----										
4	1577.500	60.7	24.6	4.2	40.0	49.5	74.0	24.5	100	212
5	2430.000	60.9	27.0	5.2	39.3	53.8	74.0	20.2	100	218

< HDMI MODE _ (1 ~ 6) GHz _ Average >

RADIATED EMISSION

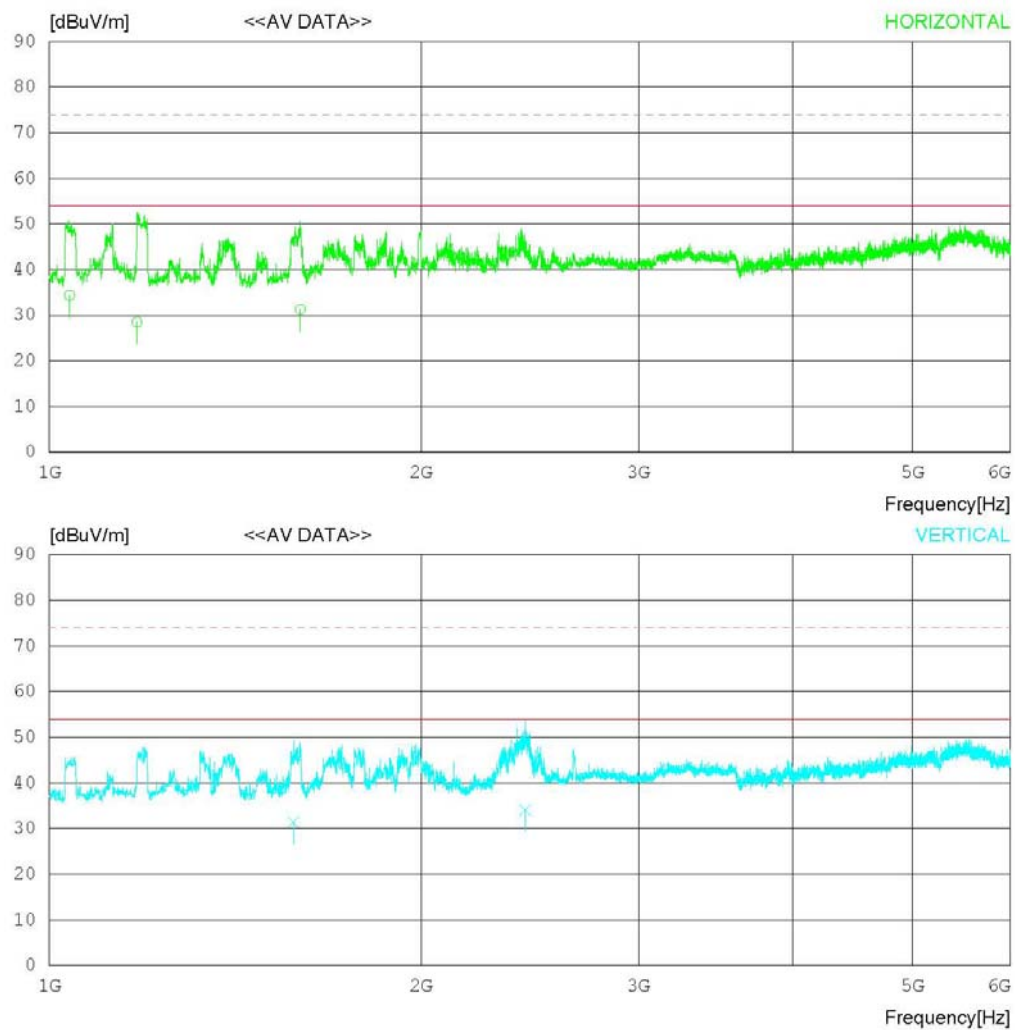
Date : 2013-06-21

Model Name : 55LN5100-UB
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 23 °C 42 % R.H.
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)



RADIATED EMISSION

Date : 2013-06-21

Model Name : 55LN5100-UB	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 23 'C 42 % R.H.
Test Condition : HDMI	Operator :

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Avg)
FCC Part15 Subpart B Class B (3m) - 18G(Peak)

No.	FREQ [MHz]	READING AV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1038.493	48.2	23.9	3.4	41.1	34.4	54.0	19.6	100	220
2	1178.011	41.6	24.1	3.6	40.8	28.5	54.0	25.5	100	260
3	1596.520	42.5	24.6	4.2	40.0	31.3	54.0	22.7	100	240
----- Vertical -----										
4	1576.982	42.6	24.6	4.2	40.0	31.4	54.0	22.6	100	220
5	2429.598	41.2	27.0	5.2	39.3	34.1	54.0	19.9	100	260

< USB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

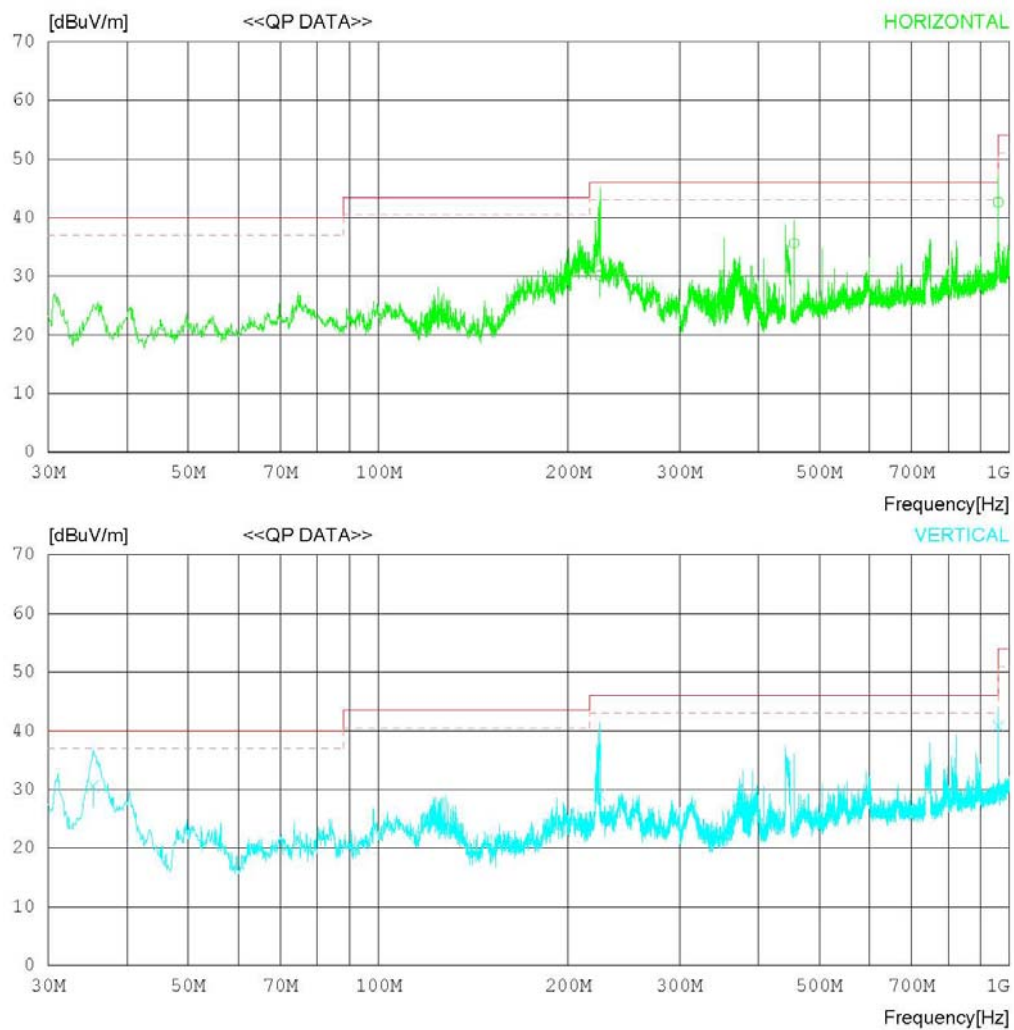
Date : 2013-06-21

Model Name : 55LN5100-UB
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 23 °C 42 % R.H.
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB



RADIATED EMISSION

Date : 2013-06-21

Model Name : 55LN5100-UB	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 23 °C 42 % R.H.
Test Condition : USB	Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)
MARGIN: 3 dB

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	224.551	39.2	11.2	3.6	23.9	30.1	46.0	15.9	100	220
2	456.014	36.4	16.8	5.6	23.2	35.6	46.0	10.4	280	210
3	959.970	35.2	21.7	8.4	22.7	42.6	46.0	3.4	120	180
----- Vertical -----										
4	35.335	37.7	15.1	1.8	24.0	30.6	40.0	9.4	220	300
5	224.247	38.3	11.1	3.6	23.9	29.1	46.0	16.9	100	180
6	959.994	33.4	21.7	8.4	22.7	40.8	46.0	5.2	150	340

< USB MODE _ (1 ~ 6) GHz _ Peak >

RADIATED EMISSION

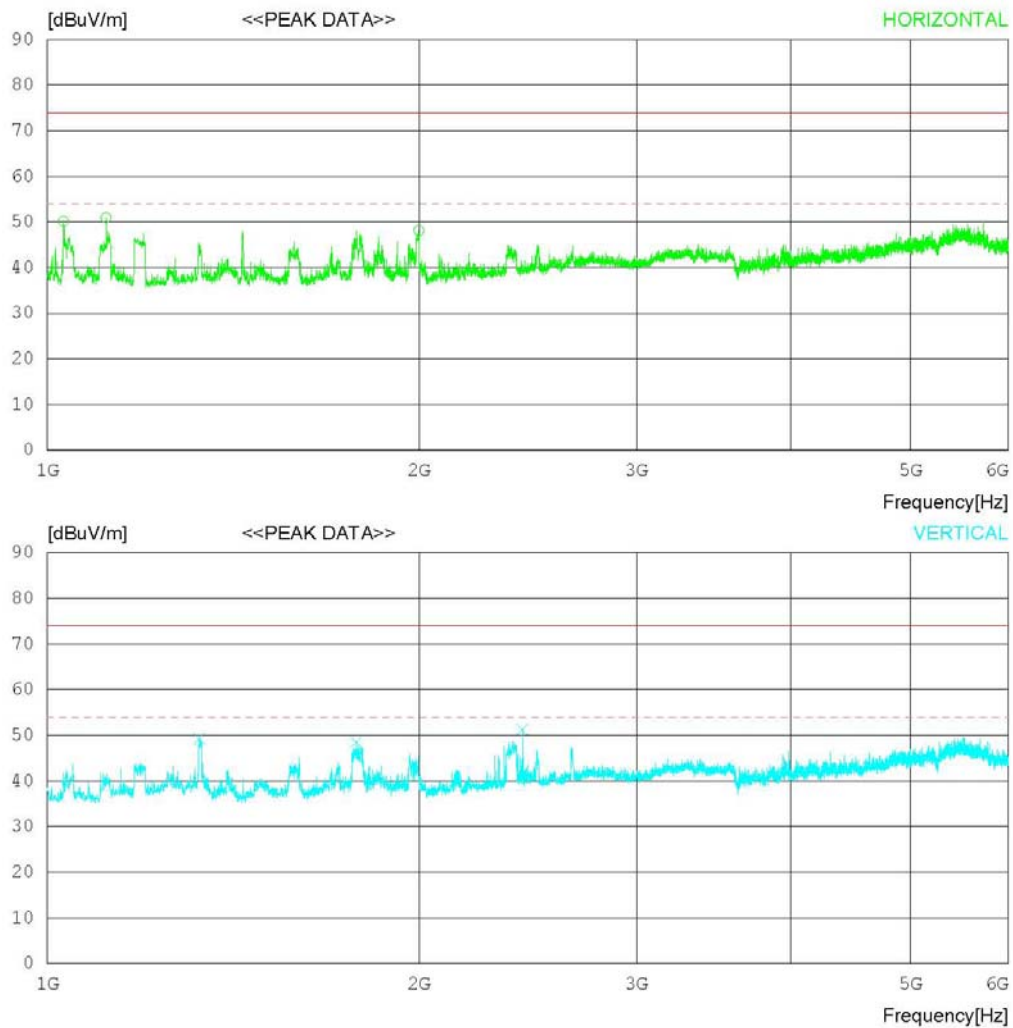
Date : 2013-06-21

Model Name : 55LN5100-UB
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 23 °C 42 % R.H.
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)



RADIATED EMISSION

Date : 2013-06-21

Model Name : 55LN5100-UB	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 23 °C 42 % R.H.
Test Condition : USB	Operator :

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Peak)
FCC Part15 Subpart B Class B (3m) - 18G(Avg)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1030.625	64.0	23.9	3.4	41.1	50.2	74.0	23.8	100	0
2	1115.625	64.3	24.1	3.5	40.9	51.0	74.0	23	100	120
3	1998.750	58.3	24.6	4.7	39.5	48.1	74.0	25.9	100	0
----- Vertical -----										
4	1327.500	61.5	24.4	3.8	40.4	49.3	74.0	24.7	100	223
5	1778.750	59.2	24.6	4.4	39.7	48.5	74.0	25.5	100	358
6	2425.000	58.4	27.0	5.2	39.3	51.3	74.0	22.7	100	232

< USB MODE _ (1 ~ 6) GHz _ Average >

RADIATED EMISSION

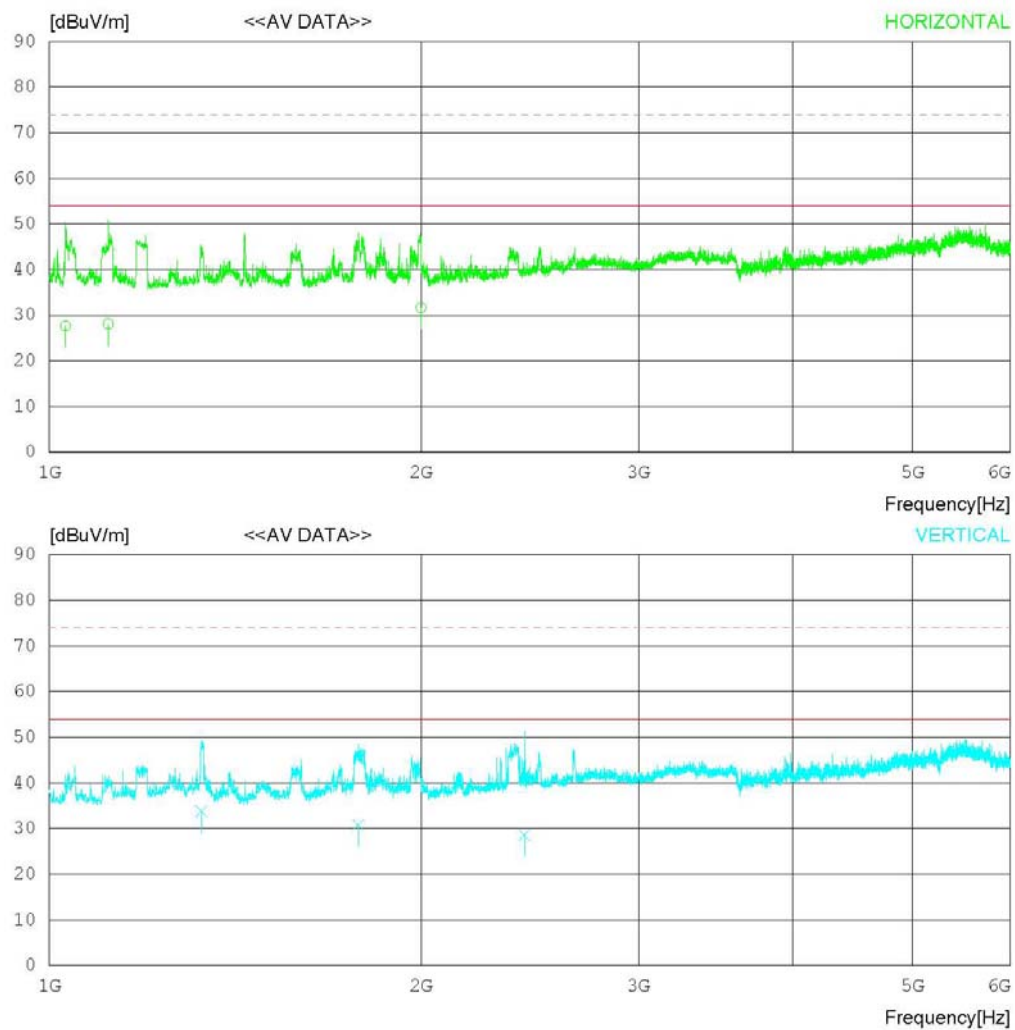
Date : 2013-06-21

Model Name : 55LN5100-UB
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 23 °C 42 % R.H.
Operator :

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 18G(Avg)
FCC Part15 Subpart.B Class B (3m) - 18G(Peak)



RADIATED EMISSION

Date : 2013-06-21

Model Name : 55LN5100-UB	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 23 °C 42 % R.H.
Test Condition : USB	Operator :

Memo :

LIMIT : FCC Part15 Subpart B Class B (3m) - 18G(Avg)
FCC Part15 Subpart B Class B (3m) - 18G(Peak)

No.	FREQ [MHz]	READING AV [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1030.657	41.5	23.9	3.4	41.1	27.7	54.0	26.3	100	310
2	1116.100	41.4	24.1	3.5	40.9	28.1	54.0	25.9	100	120
3	1999.190	41.9	24.6	4.7	39.5	31.7	54.0	22.3	100	350
----- Vertical -----										
4	1328.730	46.0	24.4	3.8	40.4	33.8	54.0	20.2	100	230
5	1778.844	41.5	24.6	4.4	39.7	30.8	54.0	23.2	100	340
6	2425.305	35.7	27.0	5.2	39.3	28.6	54.0	25.4	100	232

Appendix 1

List of Test and Measurement Instruments

To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment is identified by the Test Laboratory.

1. Conducted Disturbance

Name of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☐ SPECTRUM ANALYZER	8591E	H/P	3649A05889	2013.02.28	2014.02.28
☐ RFI/FIELD INTENSITY METER	KNM-2402	KYORITSU	4N-170-3	2012.07.02	2013.07.02
☐ LISN	KNW-407	KYORITSU	8-317-8	2013.01.08	2014.01.08
☐ LISN	PMM L2-16B	NARDA S.T.S. / PMM	000WX20305	2012.07.25	2013.07.25
☐ 50 OHM TERMINATOR	CT-01	TME	N/A	2013.01.08	2014.01.08
☒ EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2013.02.27	2014.02.27
☒ LISN	ESH2-Z5	ROHDE & SCHWARZ	828739/006	2012.09.18	2013.09.18
☒ LISN	LISN1600	TTI	197204	2012.07.02	2013.07.02
☒ 50 OHM TERMINATOR	CT-01	TME	N/A	2013.01.08	2014.01.08

2. Radiated Disturbance

Name of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☒ EMI TEST RECEIVER	ESU	ROHDE & SCHWARZ	100014	2013.01.08	2014.01.08
☒ BILOG ANTENNA	CBL6112B	SCHAFFNER	2737	2012.11.06	2014.11.06
☒ HORN ANTENNA	BBHA9120A	SCHWARZBECK	322	2012.05.15	2014.05.15
☒ AMPLIFIER	8447E	H/P	2945A02865	2013.01.08	2014.01.08
☒ PREAMPLIFIER	8449B	AGILENT	3008A01590	2013.02.27	2014.02.27
☐ SPECTRUM ANALYZER	E4411B	AGILENT	US41062735	2012.07.11	2013.07.11
☐ AMPLIFIER	8447D	AGILENT	2443A03690	2012.07.01	2013.07.01
☐ EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2013.02.27	2014.02.27
☐ BICONICAL ANT.	VHA 9103	SCHWARZBECK	91032789	2012.04.10	2014.04.10
☐ LOG-PERIODIC ANT.	UHALP 9108A	SCHWARZBECK	590	2012.04.10	2014.04.10
☐ BICONICAL ANT.	VHA 9103	SCHWARZBECK	91031946	2012.03.12	2014.03.12
☐ LOG-PERIODIC ANT.	UHALP 9108-A1	SCHWARZBECK	1098	2012.03.12	2014.03.12
☐ AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2013.02.28	2014.02.28

Appendix 2

Report Revision History

Revision Date	Description	Revised By	Revision Reviewed By
None	Original	N/A	N/A