

# EMC TEST REPORT

Test item : LED TV Monitor  
Model No. : 55LN5750-UH  
Order No. : DEMC1308-02538  
Date of receipt : 2013-08-16  
Test duration : 2013-08-19 ~ 2013-08-21  
Use of report : FCC CoC Marking  
Date of Issue : 2013-08-23

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 : (22 ~ 25) °C,  
Humidity : (52 ~ 56) % 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.

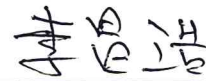
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Tested by:



Manager  
DaeHwa Eun

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.digitalemc.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.	55LN5750-UH
EUT Type	LED TV Monitor
Serial No	NONE
FCC ID	BEJ55LN5750UH
Type of Sample Tested	Pre-Production
High Frequency	790 MHz
Rating	AC 100-240 V~ 50/60 Hz, 1.6 A
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
1152 x 864	54.348	60.053
1360 x 768	47.712	60.015
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	08-19	22	52
Radiated Disturbance	08-21	25	56

### 4.3 Test result Summary

#### (1) Conducted Emission (HDMI MODE)

Frequency [MHz]	Phase	Result [dB $\mu$ V]	Detector	Limit [dB $\mu$ V]	Margin [dB]
0.15150	L1	60.3	Quasi-Peak	65.9	5.6

#### (2) Radiated Emission (USB MODE)

Frequency [MHz]	Pol.	Result [dB( $\mu$ V/m)]	Detector	Limit [dB( $\mu$ V/m)]	Margin [dB]
959.975	H	42.9	Quasi-Peak	46.0	3.1

## 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 (Worst Case)
- 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	POWER	1.8	Not use	Non-shield	Plastic	DOC
				USB	1.7	Not use	Non-shield		
				USB	1.6	Not use	Non-shield		
				USB	2.0	Not use	Non-shield		
				HDMI	1.9	Not use	Shield		
KEYBOARD	SKG-3000UB	TAKB601241E	MONITREY INTERNATIONAL CORP	USB	1.7	Not use	Non-shield	Plastic	DOC
MOUSE	1484	3527000 21372	MICROSOFT CORPORATION	USB	1.6	Not use	Non-shield	Plastic	DOC
PRINTER	SRP-770	N/A	BICSOLON	POWER	1.8	Not use	Non-shield	Plastic	DOC
				USB	2.0	Not use	Non-shield		
Adaptor (PRINTER)	N60-24025011	N/A	JIANGSU LEADER ELECTRONICS CO., LTD.	POWER	1.8	Not use	Non-shield	Plastic	DOC
				POWER	1.8	Not use	Non-shield		
CD/DVD PLAYER	DVP-NS92V	2000407	SONY EMCS.	POWER AV	1.8 1.5	Not use Not use	Non-shield Non-shield	Plastic	VER
USB MEMORY	Cruzer Blade 2GB	N/A	SANDISK	USB	-	-	-	Plastic	DOC
Headset	COV903	N/A	COSY	STEREO	2.0	Not use	Non-shield	Plastic	DOC
REMOTE	AN-MR400K	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 2<sup>nd</sup> 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 >

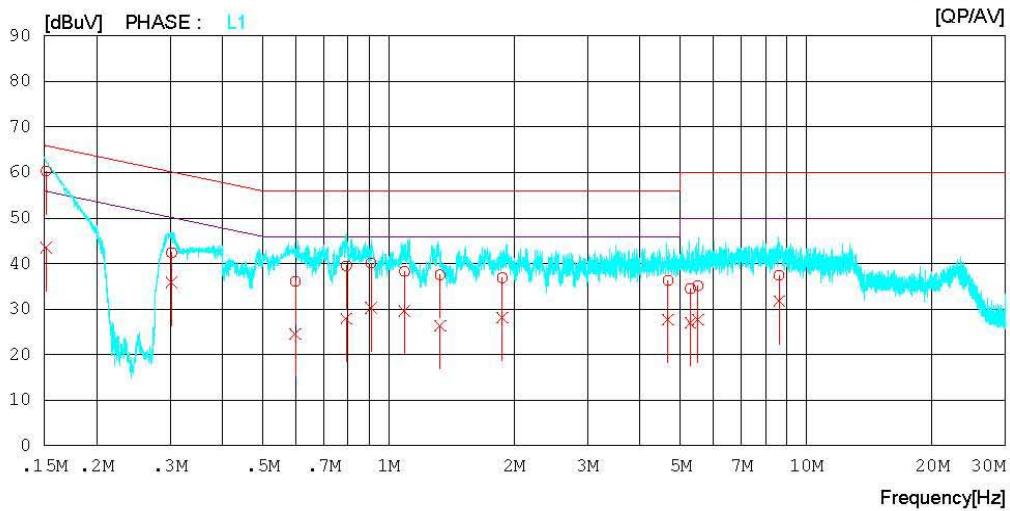
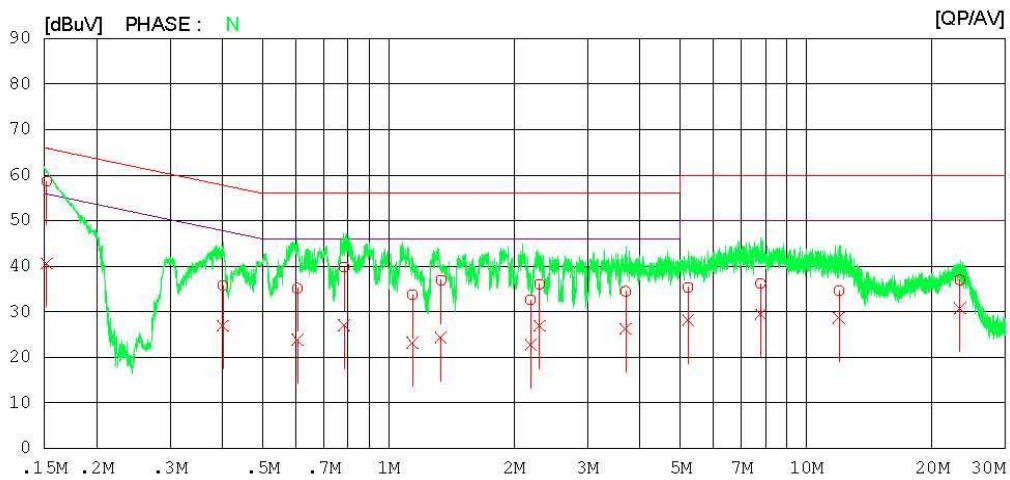


Results of Conducted Emission

Digital EMC  
Date : 2013-08-19

Model No.	: 55LN5750-UH	Reference No.	:
Type	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi.	: 22 °C 52 % R.H.
Test Condition	: HDMI	Operator	:

Memo :  
LIMIT : CISPR22\_B QP  
CISPR22\_B AV



## Results of Conducted Emission

Digital EMC  
 Date : 2013-08-19

Model No. :	55LN5750-UH	Reference No. :	
Type :		Power Supply :	120 V 60 Hz
Serial No. :		Temp/Humi. :	22 °C 52 % R.H.
Test Condition :	HDMI	Operator :	

Memo :

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	0.15191	58.5	40.5	0.1	58.6	40.6	65.9	55.9	7.3	15.3	N
2	0.40107	35.6	26.8	0.1	35.7	26.9	57.8	47.8	22.1	20.9	N
3	0.60540	35.0	23.7	0.1	35.1	23.8	56.0	46.0	20.9	22.2	N
4	0.78293	39.6	26.8	0.2	39.8	27.0	56.0	46.0	16.2	19.0	N
5	1.14120	33.4	22.9	0.3	33.7	23.2	56.0	46.0	22.3	22.8	N
6	1.33620	36.6	24.1	0.3	36.9	24.4	56.0	46.0	19.1	21.6	N
7	2.18920	32.3	22.5	0.3	32.6	22.8	56.0	46.0	23.4	23.2	N
8	2.30000	35.7	26.6	0.3	36.0	26.9	56.0	46.0	20.0	19.1	N
9	3.69840	34.2	26.0	0.3	34.5	26.3	56.0	46.0	21.5	19.7	N
10	5.21500	34.8	27.7	0.5	35.3	28.2	60.0	50.0	24.7	21.8	N
11	7.78160	35.7	28.9	0.5	36.2	29.4	60.0	50.0	23.8	20.6	N
12	11.98620	33.9	28.0	0.7	34.6	28.7	60.0	50.0	25.4	21.3	N
13	23.34980	36.1	29.9	0.9	37.0	30.8	60.0	50.0	23.0	19.2	N
14	0.15150	60.2	43.4	0.1	60.3	43.5	65.9	55.9	5.6	12.4	L1
15	0.30263	42.3	35.8	0.1	42.4	35.9	60.2	50.2	17.8	14.3	L1
16	0.59824	36.1	24.4	0.1	36.2	24.5	56.0	46.0	19.8	21.5	L1
17	0.79320	39.3	27.7	0.2	39.5	27.9	56.0	46.0	16.5	18.1	L1
18	0.90868	39.9	30.1	0.2	40.1	30.3	56.0	46.0	15.9	15.7	L1
19	1.09240	38.0	29.4	0.3	38.3	29.7	56.0	46.0	17.7	16.3	L1
20	1.32920	37.2	26.0	0.3	37.5	26.3	56.0	46.0	18.5	19.7	L1
21	1.87300	36.6	27.9	0.3	36.9	28.2	56.0	46.0	19.1	17.8	L1
22	4.67020	35.8	27.2	0.5	36.3	27.7	56.0	46.0	19.7	18.3	L1
23	5.28080	34.0	26.5	0.5	34.5	27.0	60.0	50.0	25.5	23.0	L1
24	5.50700	34.6	27.2	0.5	35.1	27.7	60.0	50.0	24.9	22.3	L1
25	8.61780	36.8	31.2	0.6	37.4	31.8	60.0	50.0	22.6	18.2	L1

< USB MODE >

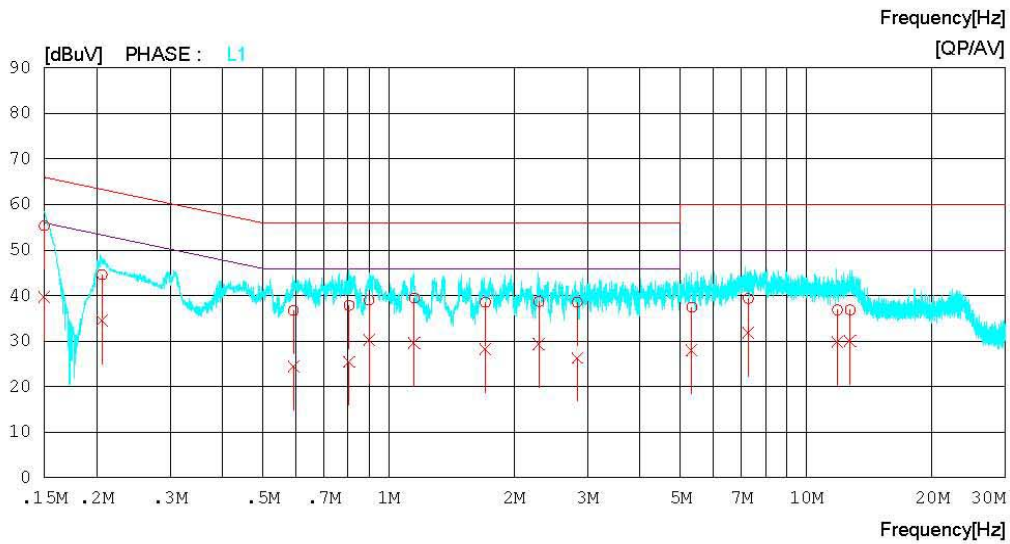
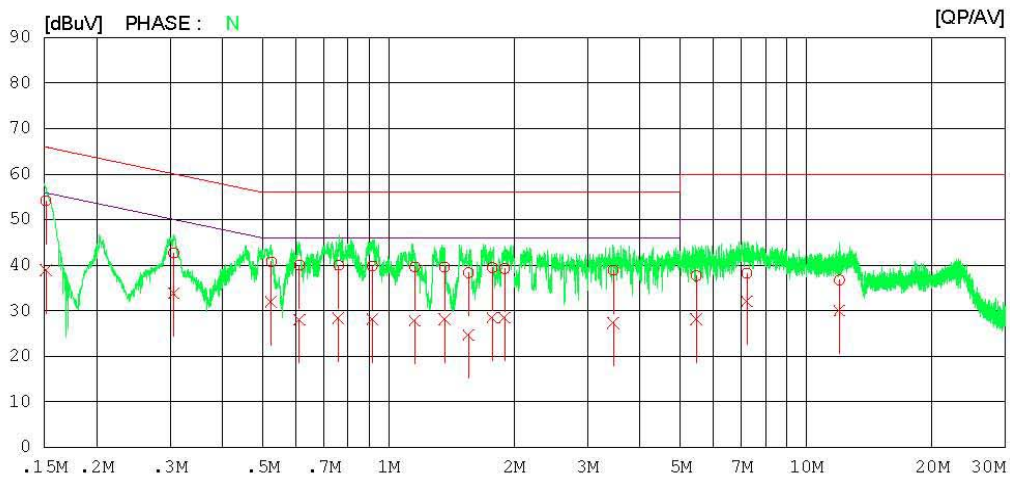


Results of Conducted Emission

Digital EMC  
Date : 2013-08-19

Model No.	: 55LN5750-UH	Reference No.	:
Type	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi.	: 22°C 52 % R.H.
Test Condition	: USB	Operator	:

Memo :  
LIMIT : CISPR22\_B QP  
CISPR22\_B AV



## Results of Conducted Emission

Digital EMC  
 Date : 2013-08-19

Model No. : 55LN5750-UH	Reference No. :
Type :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi. : 22 °C 52 % R.H.
Test Condition : USB	Operator :

Memo :

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	0.15135	54.1	38.8	0.1	54.2	38.9	65.9	55.9	11.7	17.0	N
2	0.30619	42.6	33.7	0.1	42.7	33.8	60.1	50.1	17.4	16.3	N
3	0.52399	40.6	31.9	0.1	40.7	32.0	56.0	46.0	15.3	14.0	N
4	0.61187	39.9	27.9	0.1	40.0	28.0	56.0	46.0	16.0	18.0	N
5	0.75973	39.8	28.2	0.2	40.0	28.4	56.0	46.0	16.0	17.6	N
6	0.91488	39.6	27.9	0.2	39.8	28.1	56.0	46.0	16.2	17.9	N
7	1.15580	39.3	27.5	0.3	39.6	27.8	56.0	46.0	16.4	18.2	N
8	1.36220	39.3	27.8	0.3	39.6	28.1	56.0	46.0	16.4	17.9	N
9	1.55480	38.0	24.4	0.3	38.3	24.7	56.0	46.0	17.7	21.3	N
10	1.77280	39.1	28.2	0.3	39.4	28.5	56.0	46.0	16.6	17.5	N
11	1.89700	38.9	28.2	0.3	39.2	28.5	56.0	46.0	16.8	17.5	N
12	3.45200	38.6	27.0	0.3	38.9	27.3	56.0	46.0	17.1	18.7	N
13	5.45460	37.2	27.7	0.5	37.7	28.2	60.0	50.0	22.3	21.8	N
14	7.21220	37.7	31.6	0.5	38.2	32.1	60.0	50.0	21.8	17.9	N
15	12.00580	36.0	29.4	0.7	36.7	30.1	60.0	50.0	23.3	19.9	N
16	0.15000	55.2	39.5	0.1	55.3	39.6	66.0	56.0	10.7	16.4	L1
17	0.20627	44.5	34.4	0.1	44.6	34.5	63.4	53.4	18.8	18.9	L1
18	0.59251	36.6	24.3	0.1	36.7	24.4	56.0	46.0	19.3	21.6	L1
19	0.80498	37.6	25.3	0.2	37.8	25.5	56.0	46.0	18.2	20.5	L1
20	0.89885	38.8	30.1	0.2	39.0	30.3	56.0	46.0	17.0	15.7	L1
21	1.15300	39.1	29.3	0.3	39.4	29.6	56.0	46.0	16.6	16.4	L1
22	1.70620	38.2	27.9	0.3	38.5	28.2	56.0	46.0	17.5	17.8	L1
23	2.29040	38.4	29.0	0.3	38.7	29.3	56.0	46.0	17.3	16.7	L1
24	2.83200	38.2	26.0	0.3	38.5	26.3	56.0	46.0	17.5	19.7	L1
25	5.32020	36.9	27.5	0.5	37.4	28.0	60.0	50.0	22.6	22.0	L1
26	7.26980	38.9	31.3	0.5	39.4	31.8	60.0	50.0	20.6	18.2	L1
27	11.88000	36.2	29.1	0.7	36.9	29.8	60.0	50.0	23.1	20.2	L1
28	12.74320	36.2	29.3	0.7	36.9	30.0	60.0	50.0	23.1	20.0	L1

## 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 <sup>th</sup> 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 (dB $\mu$ V/m)	Quasi-peak (dB $\mu$ V/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 (dB $\mu$ V/m)	Quasi-peak (dB $\mu$ V/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 (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	Peak (dB $\mu$ V/m)	Average (dB $\mu$ V/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 >

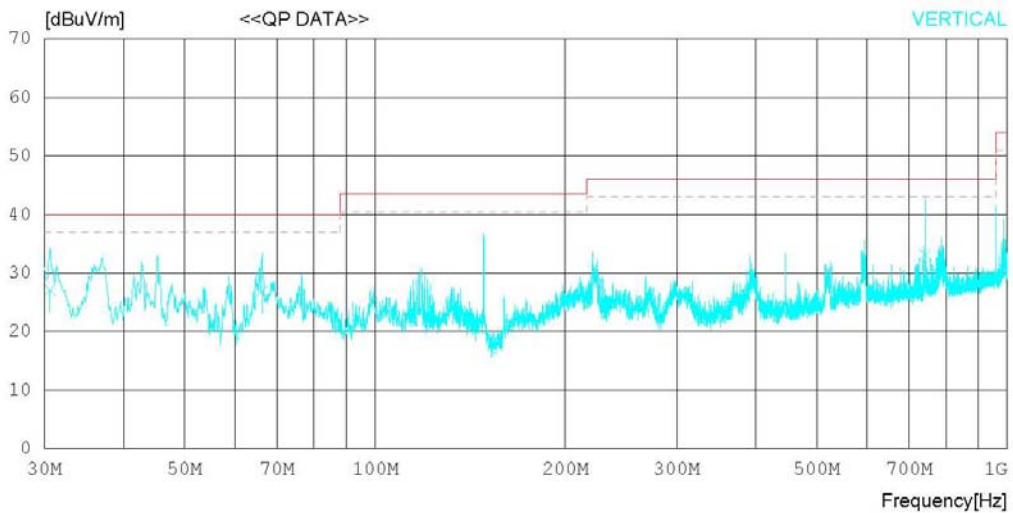
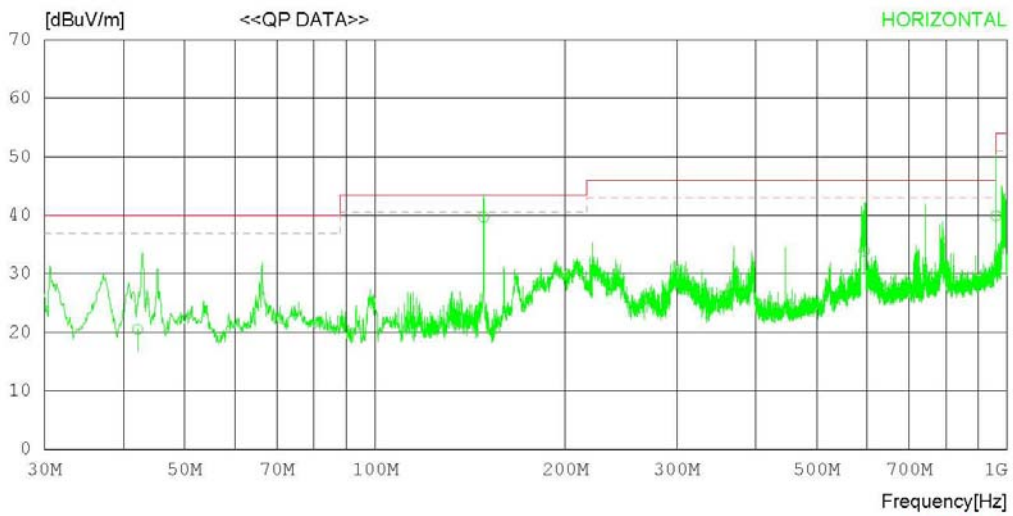
**RADIATED EMISSION**

Date : 2013-08-21

Model Name	: 55LN5750-UH	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 25 °C 56 % R.H.
Test Condition	: HDMI	Operator	:

Memo :

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



## RADIATED EMISSION

Date : 2013-08-21

Model Name : 55LN5750-UH	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 25 °C 56 % 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	42.089	29.4	13.3	2.0	24.2	20.5	40.0	19.5	200	10
2	148.517	50.3	10.5	3.1	24.2	39.7	43.5	3.8	100	340
3	593.983	31.5	18.6	6.7	22.9	33.9	46.0	12.1	100	360
4	959.962	32.5	21.7	8.4	22.7	39.9	46.0	6.1	100	240
----- Vertical -----										
5	30.618	31.4	17.5	2.0	23.8	27.1	40.0	12.9	100	290
6	66.249	43.0	6.0	2.2	24.4	26.8	40.0	13.2	100	10
7	742.480	29.3	19.2	7.4	22.8	33.1	46.0	12.9	200	260

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

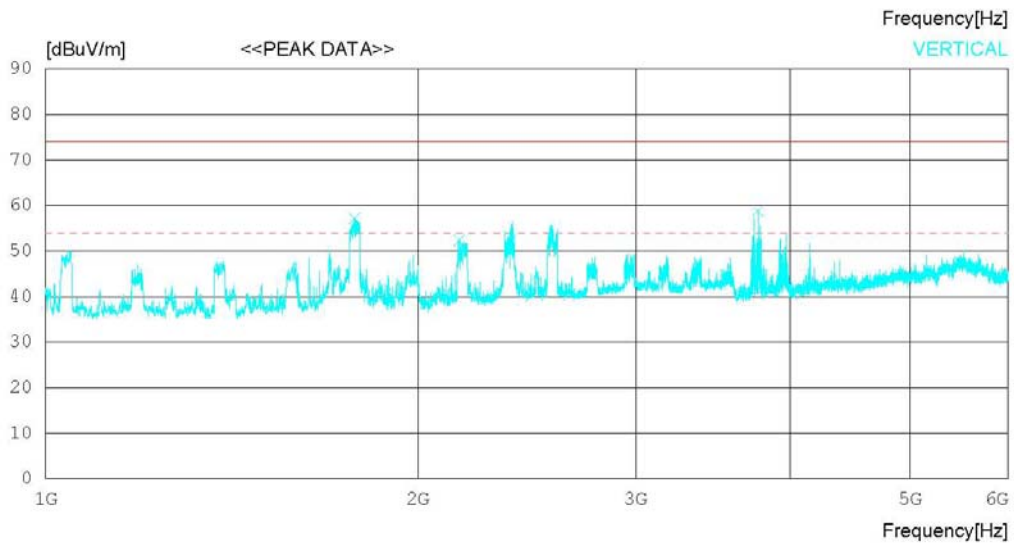
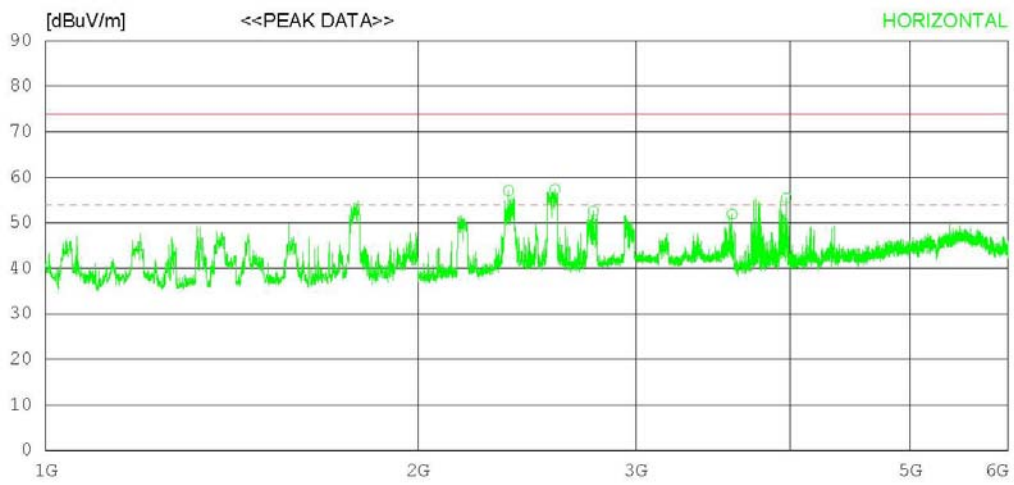
RADIATED EMISSION

Date : 2013-08-21

Model Name	: 55LN5750-UH	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 25 'C 56 % 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)



## RADIATED EMISSION

Date : 2013-08-21

Model Name	: 55LN5750-UH	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 25 °C 56 % 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	2367.500	64.6	26.7	5.1	39.3	57.1	74.0	16.9	100	190
2	2580.625	63.6	27.7	5.3	39.3	57.3	74.0	16.7	100	0
3	2771.875	58.1	28.3	5.5	39.3	52.6	74.0	21.4	100	210
4	3588.125	55.4	29.1	6.3	38.9	51.9	74.0	22.1	100	200
5	3970.625	57.1	30.1	6.7	38.4	55.5	74.0	18.5	100	195
----- Vertical -----										
6	1778.125	67.9	24.6	4.4	39.7	57.2	74.0	16.8	100	155
7	2160.625	61.4	25.5	4.9	39.4	52.4	74.0	21.6	100	184
8	3768.125	61.4	29.6	6.5	38.7	58.8	74.0	15.2	100	359

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

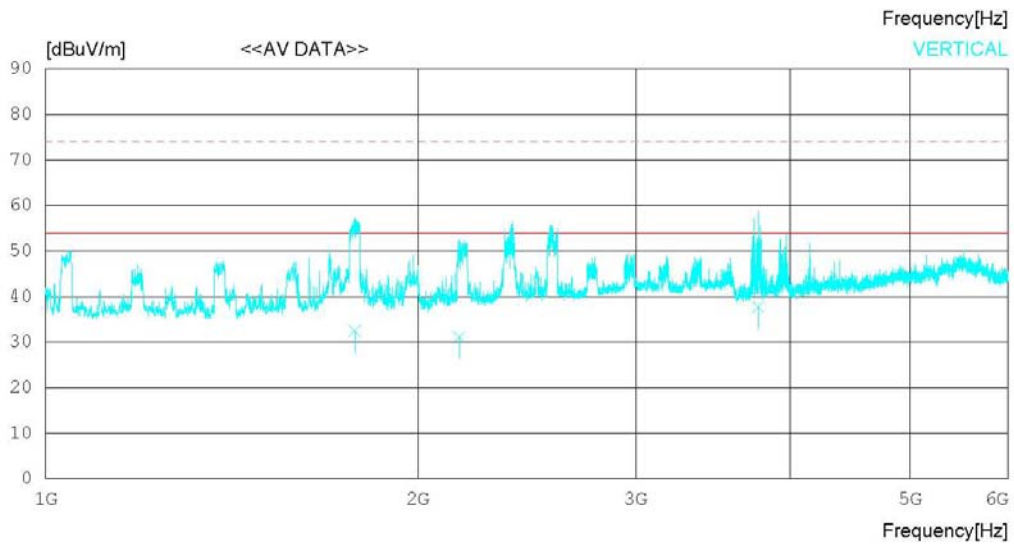
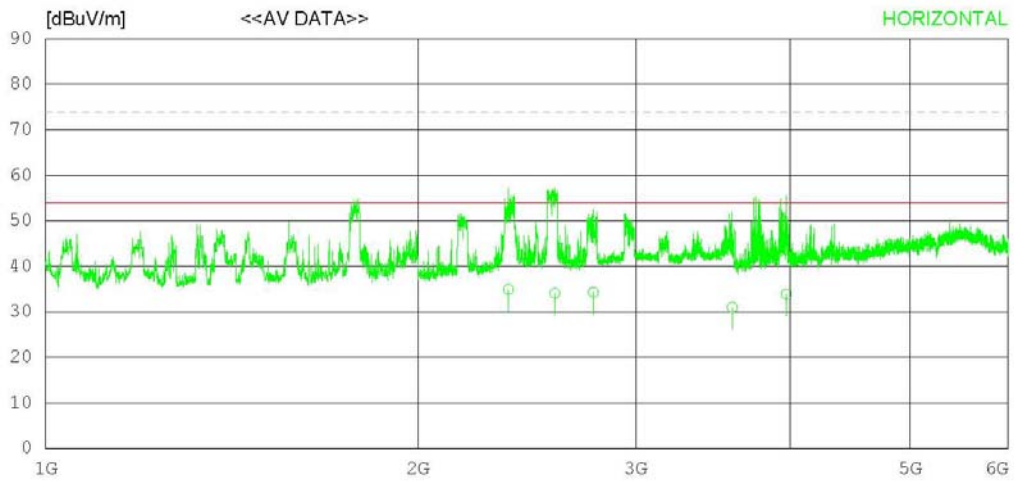
**RADIATED EMISSION**

Date : 2013-08-21

Model Name	: 55LN5750-UH	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 25 'C 56 % 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)



## RADIATED EMISSION

Date : 2013-08-21

Model Name : 55LN5750-UH	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 25 °C 56 % 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	2366.973	42.4	26.7	5.1	39.3	34.9	54.0	19.1	100	190
2	2579.995	40.4	27.7	5.3	39.3	34.1	54.0	19.9	100	180
3	2772.572	39.8	28.3	5.5	39.3	34.3	54.0	19.7	100	210
4	3589.310	34.5	29.1	6.3	38.9	31.0	54.0	23.0	100	200
5	3969.912	35.5	30.1	6.7	38.4	33.9	54.0	20.1	100	200
----- Vertical -----										
6	1778.114	43.1	24.6	4.4	39.7	32.4	54.0	21.6	100	160
7	2160.299	40.1	25.5	4.9	39.4	31.1	54.0	22.9	100	180
8	3768.527	40.3	29.6	6.5	38.7	37.7	54.0	16.3	100	360

< USB MODE\_30 MHz ~ 1 GHz >

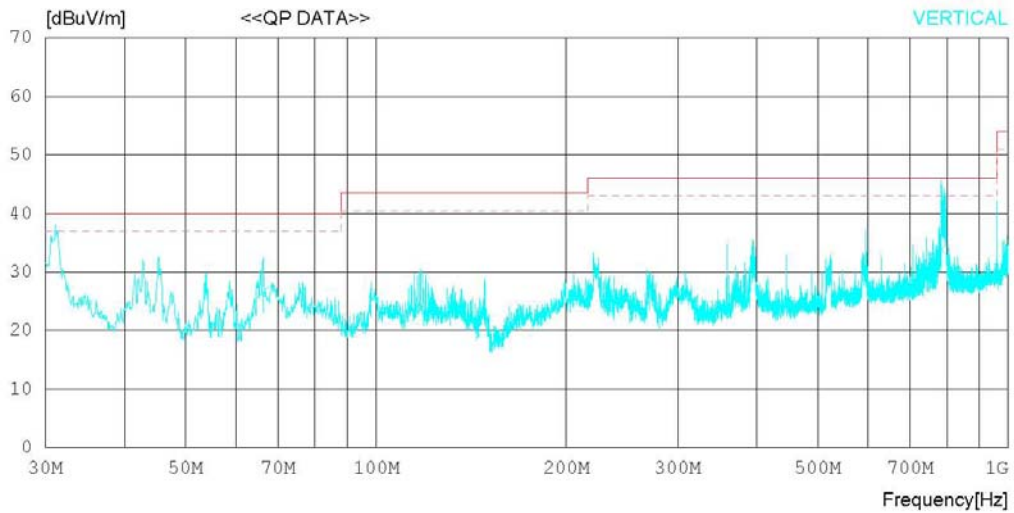
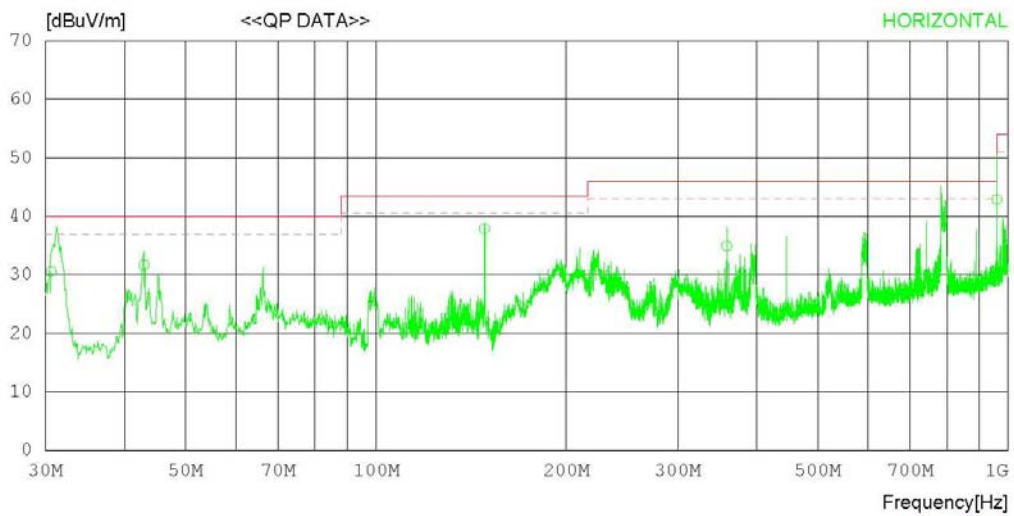
**RADIATED EMISSION**

Date : 2013-08-21

Model Name	: 55LN5750-UH	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 25 °C 56 % R.H.
Test Condition	: USB	Operator	:

Memo :

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



## RADIATED EMISSION

Date : 2013-08-21

Model Name : 55LN5750-UH	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 25 °C 56 % 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	30.621	34.9	17.5	2.0	23.8	30.6	40.0	9.4	200	30
2	42.958	40.4	13.5	2.0	24.2	31.7	40.0	8.3	200	30
3	148.474	48.5	10.5	3.1	24.2	37.9	43.5	5.6	200	360
4	358.648	38.5	15.1	4.9	23.6	34.9	46.0	11.1	200	180
5	959.975	35.5	21.7	8.4	22.7	42.9	46.0	3.1	200	100
----- Vertical -----										
6	66.316	42.8	6.0	2.2	24.4	26.6	40.0	13.4	100	360
7	783.539	29.4	19.8	7.5	22.8	33.9	46.0	12.1	100	360

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

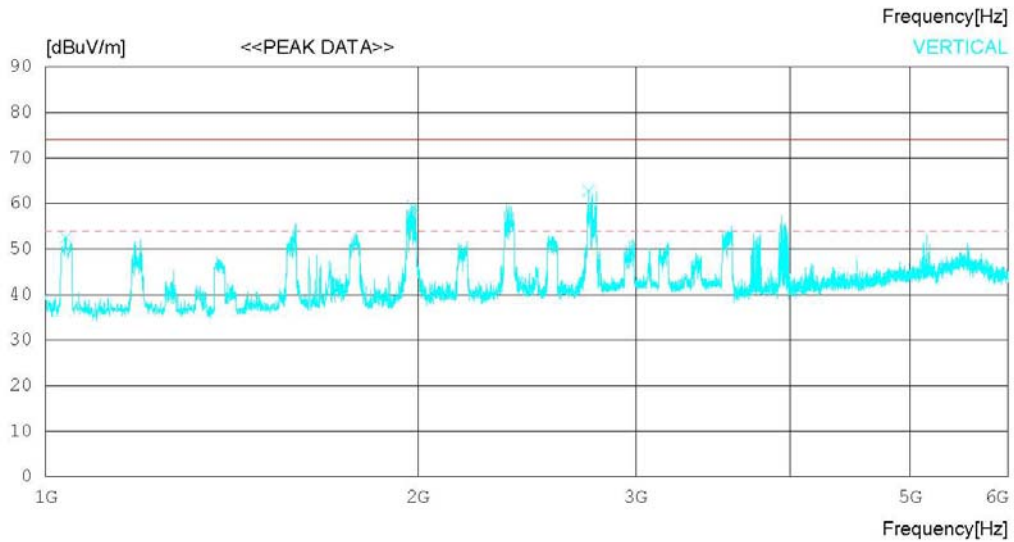
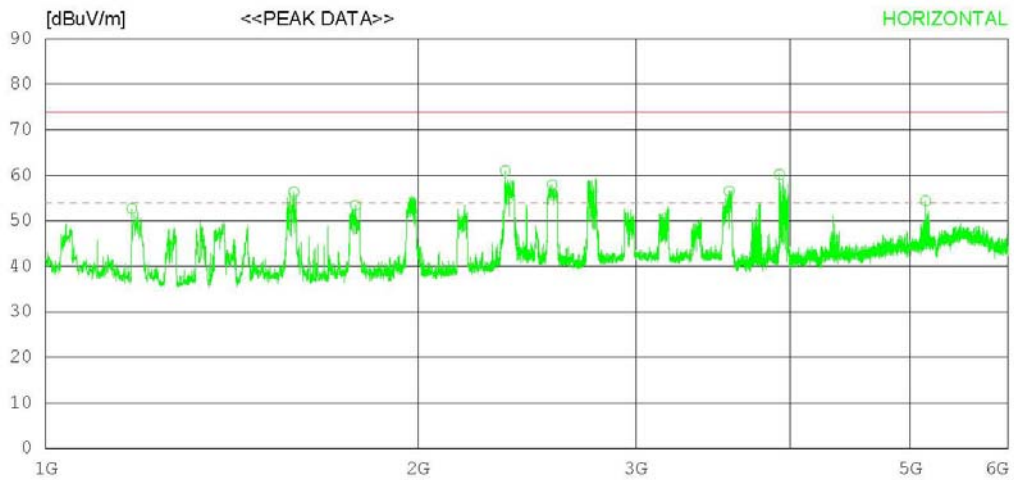
## RADIATED EMISSION

Date : 2013-08-21

Model Name	: 55LN5750-UH	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 25 'C 56 % 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)



## RADIATED EMISSION

Date : 2013-08-21

Model Name : 55LN5750-UH	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 25 °C 56 % 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	1174.375	65.8	24.1	3.6	40.8	52.7	74.0	21.3	100	159
2	1587.500	67.5	24.6	4.2	40.0	56.3	74.0	17.7	100	155
3	1780.625	64.1	24.6	4.4	39.7	53.4	74.0	20.6	100	188
4	2353.125	68.6	26.6	5.1	39.3	61.0	74.0	13	100	163
5	2567.500	64.2	27.7	5.3	39.3	57.9	74.0	16.1	100	207
6	3569.375	60.0	29.1	6.3	38.9	56.5	74.0	17.5	100	203
7	3919.375	62.2	29.9	6.6	38.5	60.2	74.0	13.8	100	359
8	5145.625	52.0	33.2	7.9	38.7	54.4	74.0	19.6	100	359
----- Vertical -----										
9	1038.750	66.4	23.9	3.4	41.1	52.6	74.0	21.4	100	0
10	1981.250	69.6	24.6	4.7	39.5	59.4	74.0	14.6	100	228
11	2748.125	68.4	28.2	5.5	39.3	62.8	74.0	11.2	100	199

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

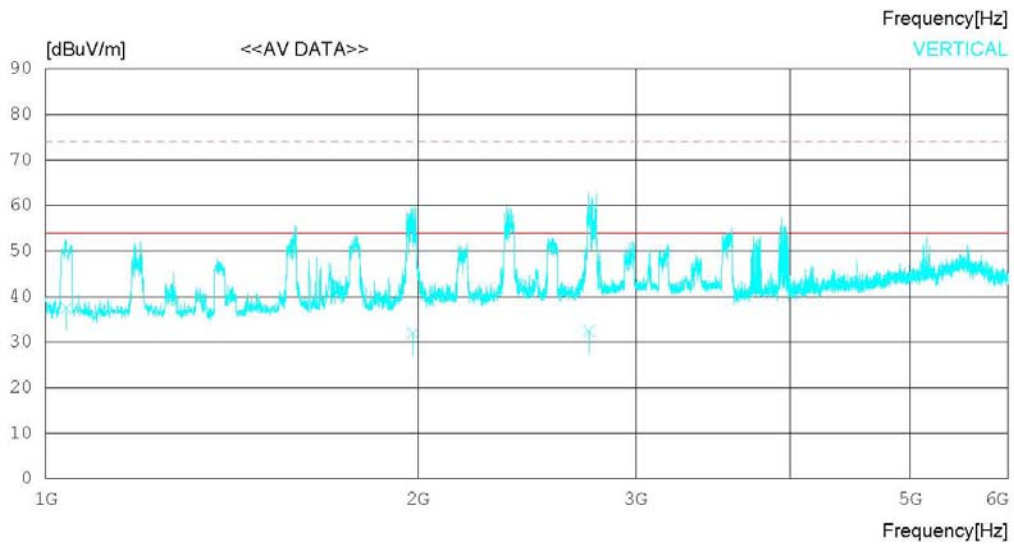
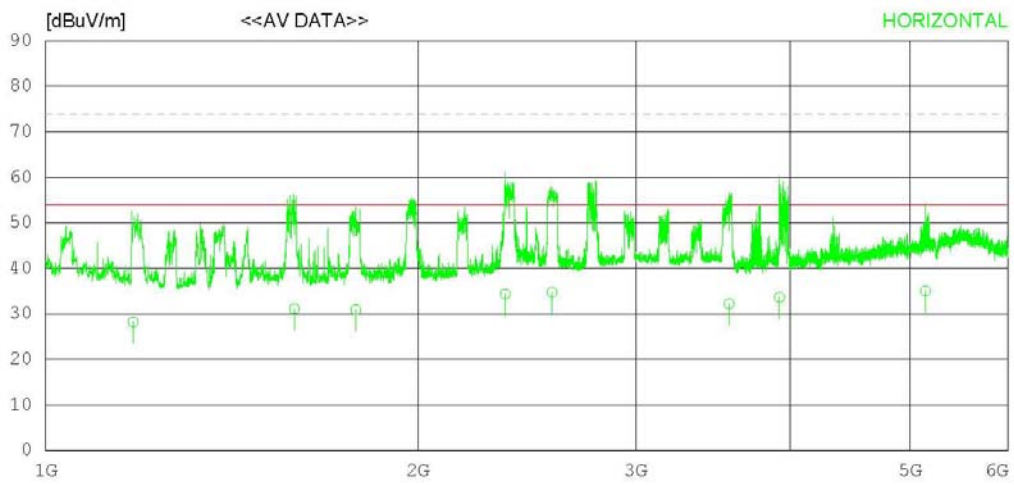
RADIATED EMISSION

Date : 2013-08-21

Model Name	: 55LN5750-UH	Reference No.	:
Model No.	:	Power Supply	: 120 V 60 Hz
Serial No.	:	Temp/Humi	: 25 'C 56 % 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)



## RADIATED EMISSION

Date : 2013-08-21

Model Name : 55LN5750-UH	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 25 °C 56 % 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	1176.936	41.3	24.1	3.6	40.8	28.2	54.0	25.8	100	160
2	1588.458	42.3	24.6	4.2	40.0	31.1	54.0	22.9	100	160
3	1781.185	41.6	24.6	4.4	39.7	30.9	54.0	23.1	100	190
4	2353.093	42.0	26.6	5.1	39.3	34.4	54.0	19.6	100	170
5	2567.216	41.1	27.7	5.3	39.3	34.8	54.0	19.2	100	210
6	3568.545	35.7	29.1	6.3	38.9	32.2	54.0	21.8	100	200
7	3919.120	35.6	29.9	6.6	38.5	33.6	54.0	20.4	100	360
8	5144.426	32.6	33.2	7.9	38.7	35.0	54.0	19.0	100	360
----- Vertical -----										
9	1039.443	51.3	23.9	3.4	41.1	37.5	54.0	16.5	100	180
10	1981.175	42.1	24.6	4.7	39.5	31.9	54.0	22.1	100	230
11	2749.629	38.0	28.2	5.5	39.3	32.4	54.0	21.6	100	200

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## Appendix 1

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### 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
<input type="checkbox"/> SPECTRUM ANALYZER	8591E	H/P	3649A05889	2013.02.28	2014.02.28
<input type="checkbox"/> RFI/FIELD INTENSITY METER	KNM-2402	KYORITSU	4N-170-3	2013.06.28	2014.06.28
<input type="checkbox"/> LISN	KNW-407	KYORITSU	8-317-8	2013.01.08	2014.01.08
<input type="checkbox"/> LISN	PMM L2-16B	NARDA S.T.S. / PMM	000WX20305	2013.06.27	2014.06.27
<input type="checkbox"/> 50 OHM TERMINATOR	CT-01	TME	N/A	2013.01.08	2014.01.08
<input checked="" type="checkbox"/> EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2013.02.27	2014.02.27
<input checked="" type="checkbox"/> LISN	ESH2-Z5	ROHDE & SCHWARZ	828739/006	2012.09.18	2013.09.18
<input checked="" type="checkbox"/> LISN	LISN1600	TTI	197204	2013.06.28	2014.06.28
<input checked="" type="checkbox"/> 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
<input checked="" type="checkbox"/> EMI TEST RECEIVER	ESU	ROHDE & SCHWARZ	100014	2013.01.08	2014.01.08
<input checked="" type="checkbox"/> BILOG ANTENNA	CBL6112B	SCHAFFNER	2737	2012.11.06	2014.11.06
<input checked="" type="checkbox"/> HORN ANTENNA	BBHA9120A	SCHWARZBECK	322	2012.05.15	2014.05.15
<input checked="" type="checkbox"/> AMPLIFIER	8447E	H/P	2945A02865	2013.01.08	2014.01.08
<input checked="" type="checkbox"/> AMPLIFIER	8449B	AGILENT	3008A01590	2013.02.27	2014.02.27
<input type="checkbox"/> SPECTRUM ANALYZER	E4411B	AGILENT	US41062735	2013.06.27	2014.06.27
<input type="checkbox"/> AMPLIFIER	8447D	AGILENT	2443A03690	2013.06.28	2014.06.28
<input type="checkbox"/> EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2013.02.27	2014.02.27
<input type="checkbox"/> BICONICAL ANT.	VHA 9103	SCHWARZBECK	91032789	2012.04.10	2014.04.10
<input type="checkbox"/> LOG-PERIODIC ANT.	UHALP 9108A	SCHWARZBECK	590	2012.04.10	2014.04.10
<input type="checkbox"/> BICONICAL ANT.	VHA 9103	SCHWARZBECK	91031946	2012.03.12	2014.03.12
<input type="checkbox"/> LOG-PERIODIC ANT.	UHALP 9108-A1	SCHWARZBECK	1098	2012.03.12	2014.03.12
<input type="checkbox"/> AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2013.02.28	2014.02.28

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## Appendix 2

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### Report Revision History

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