

EMC TEST REPORT

Test item : LED TV Monitor
Model No. : 47LN5750-UH
Order No. : DEMC1302-00474
Date of receipt : 2013-02-04
Test duration : 2013-02-13 ~ 2013-02-15
Use of report : FCC CoC Marking
Date of Issue : 2013-02-18

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 : 24 °C,
Humidity : (33 ~ 37) % 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:

Reviewed by:



Engineer
JunHo Park



General 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.	47LN5750-UH
EUT Type	LED TV Monitor
Serial No	NONE
FCC ID	BEJ47LN5750UH
Type of Sample Tested	Pre-Production
High Frequency	790 MHz
Rating	AC 100-240 V~ 50/60 Hz, 1.1 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	02-13	24	37
Radiated Disturbance	02-15	24	33

4.3 Test result Summary

(1) Conducted Emission (HDMI MODE)

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
0.15013	N	60.3	Quasi-Peak	66.0	5.7

(2) Radiated Emission (USB MODE)

Frequency [MHz]	Pol.	Result [dB(μ V/m)]	Detector	Limit [dB(μ V/m)]	Margin [dB]
742.503	H	42.7	Quasi-Peak	46.0	3.3

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 : 1920x1080 Resolution (Worst case)
- USB MODE : USB record 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	DCSCMF	G3RZKBX	DELL INC.	POWER	1.8	Not use	Non-shield	Plastic	DOC
				USB	1.7	Not use	Non-shield		
				USB	1.6	Not use	Non-shield		
				USB	1.8	Not use	Shield		
				HDMI	1.9	Not use	Shield		
KEYBOARD	SKG-3000UB	TAKB601239K	MONITEREY INTERNATIONAL CORP	USB	1.7	Not use	Non-shield	Plastic	DOC
MOUSE	1094	X817158-002	MICROSOFT CORPORATION	USB	1.6	Not use	Non-shield	Plastic	DOC
PRINT	EPSON Aculaser M1200	LWTZ181070	EPSON	POWER	1.8	Not use	Non-shield	Plastic	DOC
				USB	1.8	Not use	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 4GB	N/A	SANDISK	USB	-	-	-	Plastic	DOC
REMOTE CONTROL	AN-MR400K	N/A	OHSUNG ELECTRONICS CO., LTD.	-	-	-	-	-	-
HEADSET	COV9	N/A	COSY	STEREO	1.9	Not use	Non-shield	Plastic	VER

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

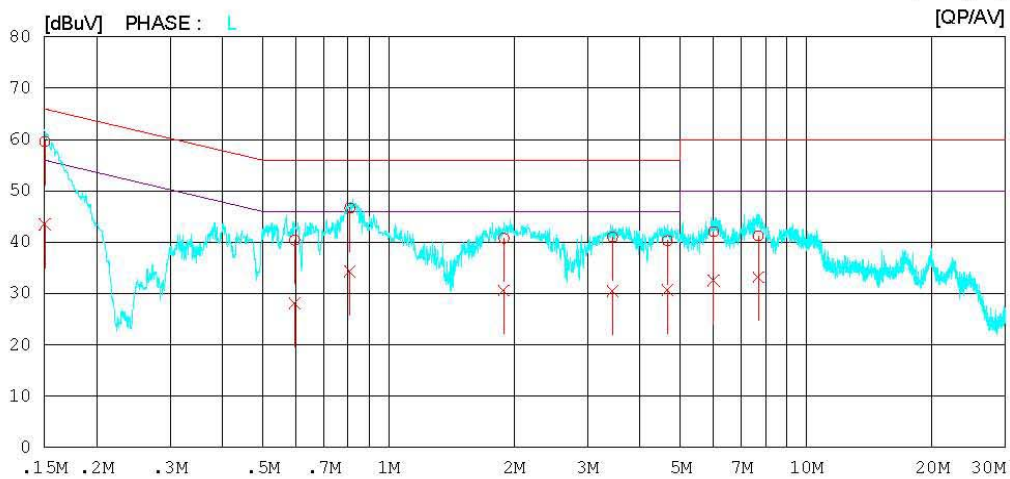
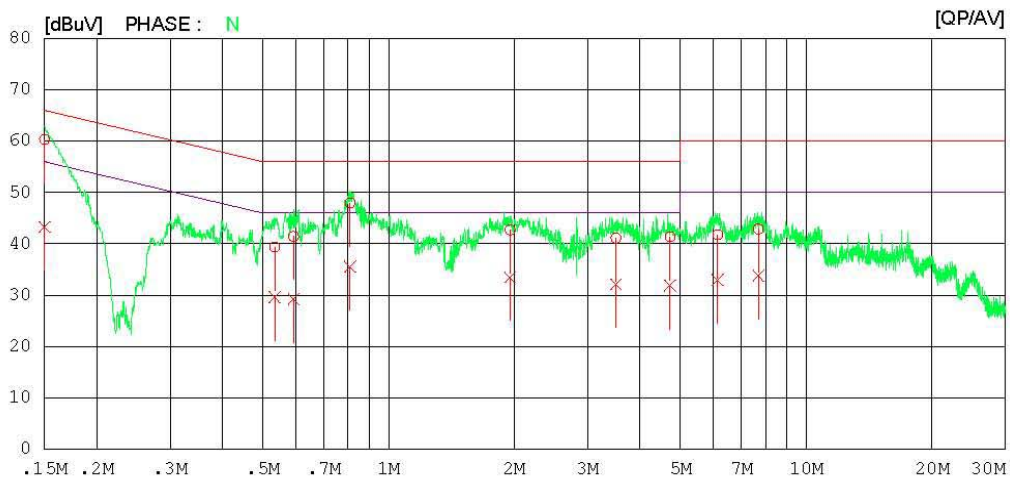
Digital EMC
Date : 2013-02-13

Model No. : 47LN5750-UH
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 24°C 37 % R. H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
 Date : 2013-02-13

Model No. : 47LN5750-UH	Reference No. :	
Type :	Power Supply :	120V 60Hz
Serial No. :	Temp/Humi. :	24°C 37 % 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	0.15013	60.1	43.0	0.2	60.3	43.2	66.0	56.0	5.7	12.8	N
2	0.53400	39.1	29.4	0.2	39.3	29.6	56.0	46.0	16.7	16.4	N
3	0.59308	41.2	29.0	0.2	41.4	29.2	56.0	46.0	14.6	16.8	N
4	0.80890	47.7	35.3	0.2	47.9	35.5	56.0	46.0	8.1	10.5	N
5	1.95500	42.4	33.2	0.3	42.7	33.5	56.0	46.0	13.3	12.5	N
6	3.50450	40.8	31.8	0.3	41.1	32.1	56.0	46.0	14.9	13.9	N
7	4.72200	40.9	31.4	0.4	41.3	31.8	56.0	46.0	14.7	14.2	N
8	6.14050	41.3	32.5	0.5	41.8	33.0	60.0	50.0	18.2	17.0	N
9	7.68850	42.4	33.3	0.5	42.9	33.8	60.0	50.0	17.1	16.2	N
10	0.15048	59.4	43.3	0.2	59.6	43.5	66.0	56.0	6.4	12.5	L
11	0.59604	40.2	27.9	0.2	40.4	28.1	56.0	46.0	15.6	17.9	L
12	0.80831	46.4	34.1	0.2	46.6	34.3	56.0	46.0	9.4	11.7	L
13	1.88900	40.5	30.3	0.3	40.8	30.6	56.0	46.0	15.2	15.4	L
14	3.44000	40.7	30.2	0.3	41.0	30.5	56.0	46.0	15.0	15.5	L
15	4.65350	39.9	30.3	0.4	40.3	30.7	56.0	46.0	15.7	15.3	L
16	6.00050	41.5	32.1	0.5	42.0	32.6	60.0	50.0	18.0	17.4	L
17	7.68450	40.7	32.7	0.5	41.2	33.2	60.0	50.0	18.8	16.8	L

< USB MODE >



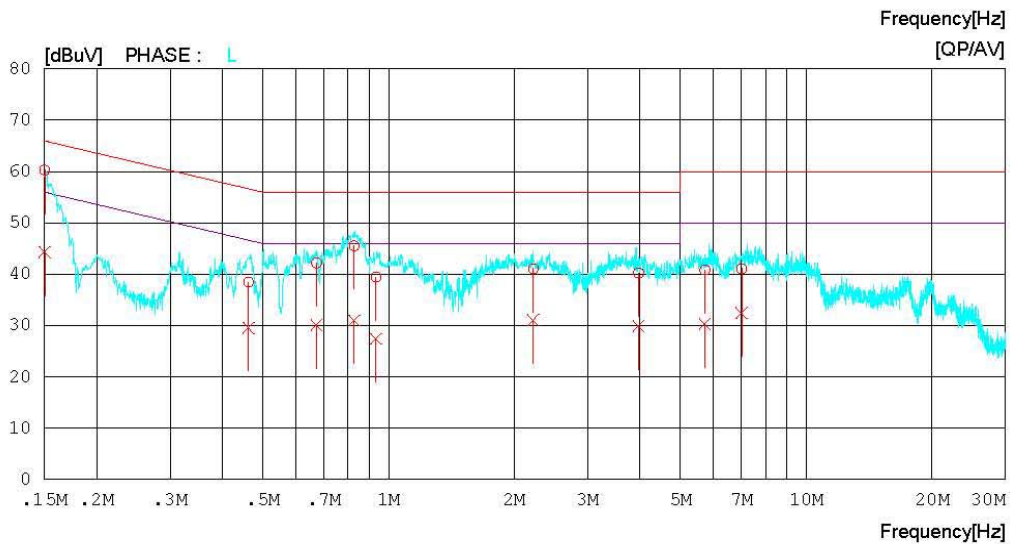
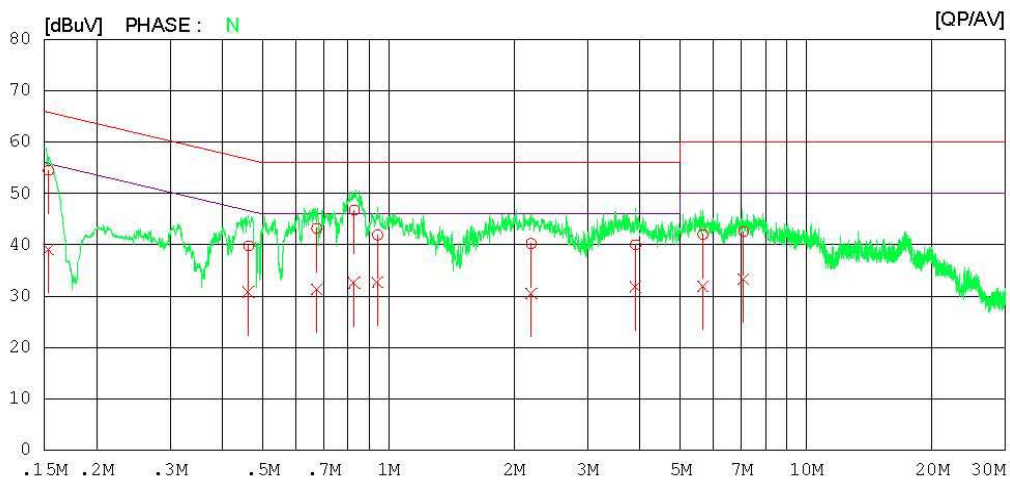
Results of Conducted Emission

Digital EMC
Date : 2013-02-13

Model No.	: 47LN5750-UH	Reference No.	:
Type	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi.	: 24°C 37% R. H.
Test Condition	: USB	Operator	:

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
 Date : 2013-02-13

Model No. : 47LN5750-UH
 Type :
 Serial No. :
 Test Condition : USB

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi. : 24°C 37 % R. H.
 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	0.15344	54.3	38.9	0.2	54.5	39.1	65.8	55.8	11.3	16.7	N
2	0.46245	39.6	30.6	0.2	39.8	30.8	56.6	46.6	16.8	15.8	N
3	0.67309	43.0	31.1	0.2	43.2	31.3	56.0	46.0	12.8	14.7	N
4	0.82819	46.5	32.4	0.2	46.7	32.6	56.0	46.0	9.3	13.4	N
5	0.94150	41.7	32.5	0.2	41.9	32.7	56.0	46.0	14.1	13.3	N
6	2.19750	39.9	30.2	0.3	40.2	30.5	56.0	46.0	15.8	15.5	N
7	3.90300	39.7	31.5	0.3	40.0	31.8	56.0	46.0	16.0	14.2	N
8	5.65950	41.5	31.4	0.5	42.0	31.9	60.0	50.0	18.0	18.1	N
9	7.07450	42.0	32.8	0.5	42.5	33.3	60.0	50.0	17.5	16.7	N
10	0.15037	60.1	44.1	0.2	60.3	44.3	66.0	56.0	5.7	11.7	L
11	0.46215	38.3	29.4	0.2	38.5	29.6	56.7	46.7	18.2	17.1	L
12	0.67286	42.0	29.9	0.2	42.2	30.1	56.0	46.0	13.8	15.9	L
13	0.82838	45.3	30.8	0.2	45.5	31.0	56.0	46.0	10.5	15.0	L
14	0.93400	39.3	27.2	0.2	39.5	27.4	56.0	46.0	16.5	18.6	L
15	2.22150	40.8	30.8	0.3	41.1	31.1	56.0	46.0	14.9	14.9	L
16	3.97200	39.9	29.7	0.3	40.2	30.0	56.0	46.0	15.8	16.0	L
17	5.72450	40.3	29.8	0.5	40.8	30.3	60.0	50.0	19.2	19.7	L
18	7.00200	40.6	32.0	0.5	41.1	32.5	60.0	50.0	18.9	17.5	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 (dB μ V/m)	Quasi-peak (dB μ 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 μ V/m)	Quasi-peak (dB μ 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 μ V/m)	Average (dB μ V/m)	Peak (dB μ V/m)	Average (dB μ 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

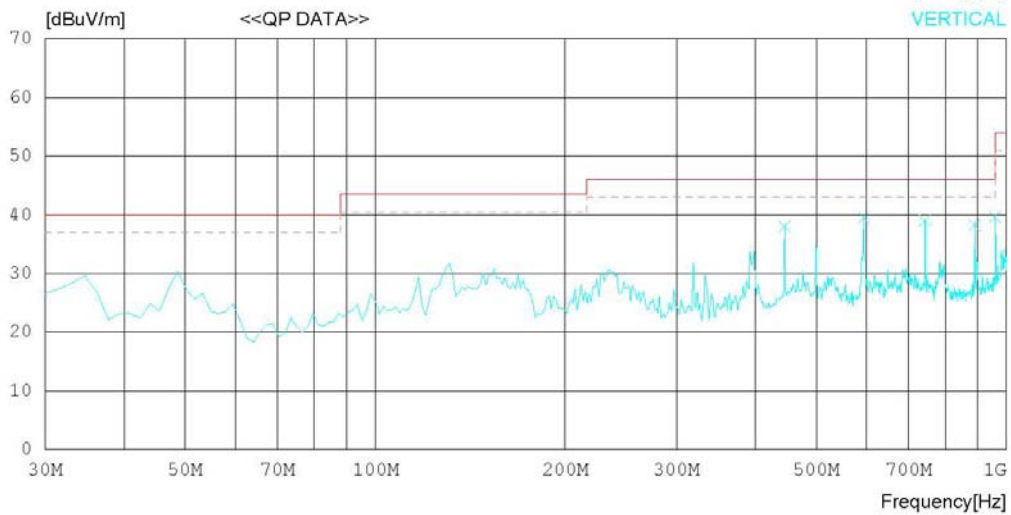
Date : 2013-02-15

Model Name : 47LN5750-UH
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 24°C 33 % R. H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2013-02-15

Model Name : 47LN5750-UH
 Model No. :
 Serial No. :
 Test Condition : HDMI

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 24°C 33% R. H.
 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	445.465	42.5	16.6	3.5	23.3	39.3	46.0	6.7	202	198
2	594.016	40.2	18.6	4.1	23.4	39.5	46.0	6.5	100	154
3	742.500	41.1	19.2	4.6	23.7	41.2	46.0	4.8	100	110
4	891.000	34.4	20.7	5.2	23.1	37.2	46.0	8.8	200	0
5	960.000	37.4	21.7	5.4	22.9	41.6	46.0	4.4	100	149
----- Vertical -----										
6	445.465	41.2	16.6	3.5	23.3	38.0	46.0	8.0	323	157
7	594.016	40.2	18.6	4.1	23.4	39.5	46.0	6.5	100	268
8	742.503	38.9	19.2	4.6	23.7	39.0	46.0	7.0	100	59
9	891.000	35.4	20.7	5.2	23.1	38.2	46.0	7.8	100	65
10	960.000	35.5	21.7	5.4	22.9	39.7	46.0	6.3	118	177

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

RADIATED EMISSION

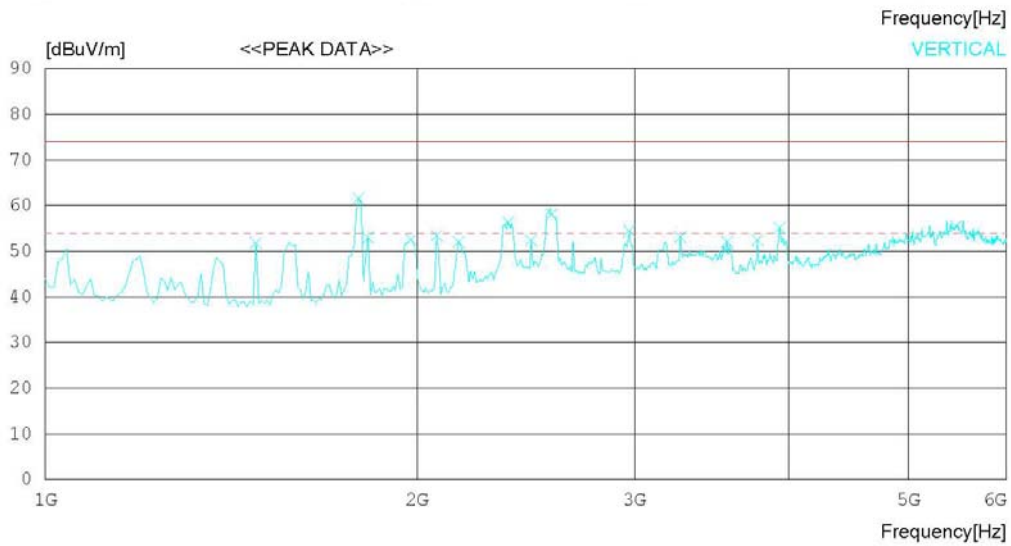
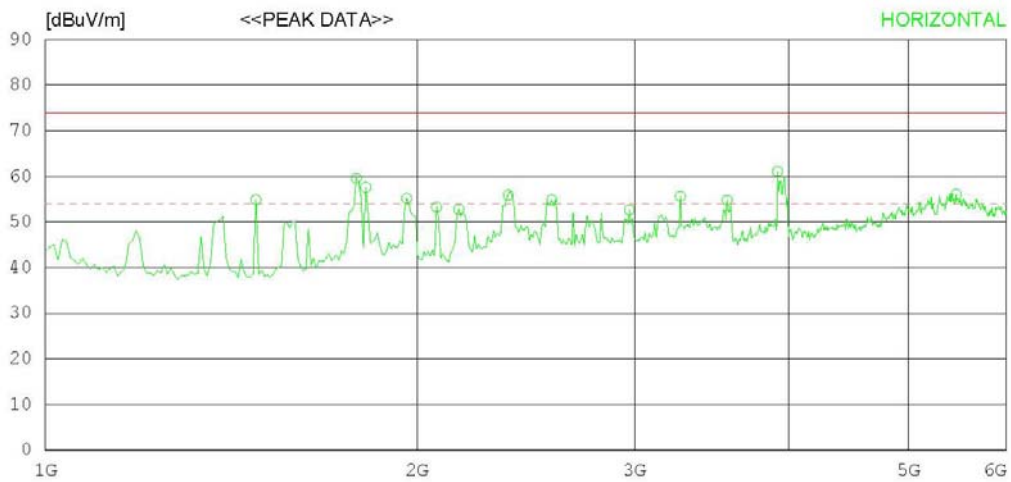
Date : 2013-02-15

Model Name : 47LN5750-UH
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 24°C 33% 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 : 2013-02-15

Model Name : 47LN5750-UH	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 24°C 33% 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	1480.769	51.4	24.6	7.4	28.5	54.9	74.0	19.1	100	218
2	1785.256	55.5	24.6	8.0	28.5	59.6	74.0	14.4	100	1
3	1817.307	53.4	24.6	8.1	28.5	57.6	74.0	16.4	100	187
4	1961.538	50.7	24.6	8.4	28.5	55.2	74.0	18.8	100	211
5	2073.718	48.2	25.0	8.6	28.5	53.3	74.0	20.7	100	242
6	2161.860	47.0	25.5	8.8	28.5	52.8	74.0	21.2	100	1
7	2370.197	48.4	26.7	9.3	28.5	55.9	74.0	18.1	100	161
8	2570.520	45.9	27.7	9.7	28.4	54.9	74.0	19.1	100	199
9	2971.167	41.7	28.9	10.5	28.4	52.7	74.0	21.3	100	183
10	3267.646	44.1	28.9	11.1	28.4	55.7	74.0	18.3	100	223
11	3564.125	42.2	29.0	11.9	28.3	54.8	74.0	19.2	100	1
12	3916.694	46.8	29.9	12.7	28.3	61.1	74.0	12.9	100	1
13	5463.150	34.4	34.9	14.9	28.1	56.1	74.0	17.9	100	1
----- Vertical -----										
14	1480.769	48.4	24.6	7.4	28.5	51.9	74.0	22.1	100	197
15	1793.269	57.4	24.6	8.1	28.5	61.6	74.0	12.4	100	148
16	1825.320	48.8	24.6	8.1	28.5	53.0	74.0	21	100	239
17	1977.564	48.2	24.6	8.4	28.5	52.7	74.0	21.3	100	358
18	2073.718	48.4	25.0	8.6	28.5	53.5	74.0	20.5	100	116
19	2161.860	46.2	25.5	8.8	28.5	52.0	74.0	22	100	199
20	2370.197	48.9	26.7	9.3	28.5	56.4	74.0	17.6	100	182
21	2474.365	44.1	27.3	9.5	28.5	52.4	74.0	21.6	100	348
22	2570.520	49.1	27.7	9.7	28.4	58.1	74.0	15.9	100	200
23	2971.167	43.5	28.9	10.5	28.4	54.5	74.0	19.5	100	358
24	3267.646	41.6	28.9	11.1	28.4	53.2	74.0	20.8	100	358
25	3564.125	39.5	29.0	11.9	28.3	52.1	74.0	21.9	100	358
26	3772.461	38.8	29.6	12.4	28.3	52.5	74.0	21.5	100	358
27	3932.720	40.6	30.0	12.8	28.3	55.1	74.0	18.9	100	219
28	5463.150	33.8	34.9	14.9	28.1	55.5	74.0	18.5	100	228

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

RADIATED EMISSION

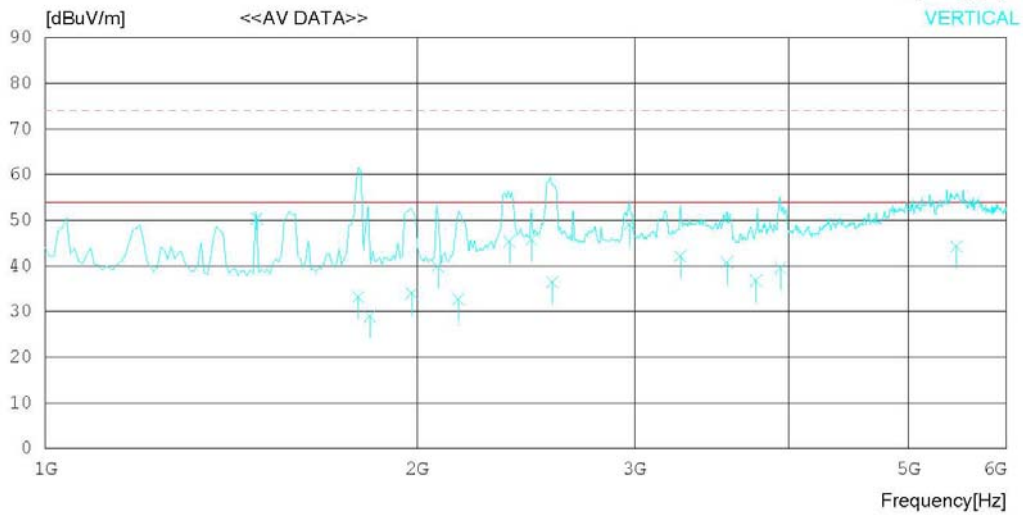
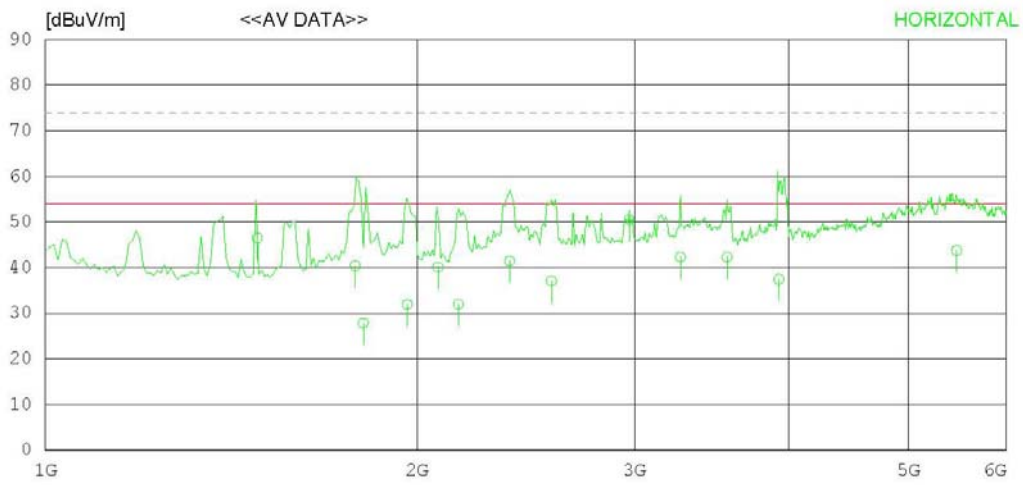
Date : 2013-02-15

Model Name : 47LN5750-UH
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 24°C 33% 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 : 2013-02-15

Model Name : 47LN5750-UH	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 24°C 33% 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	1485.000	43.0	24.6	7.4	28.5	46.5	54.0	7.5	100	218
2	1782.021	36.3	24.6	8.0	28.5	40.4	54.0	13.6	100	55
3	1809.228	23.7	24.6	8.1	28.5	27.9	54.0	26.1	100	187
4	1963.500	27.5	24.6	8.4	28.5	32.0	54.0	22.0	100	211
5	2079.026	35.0	25.0	8.6	28.5	40.1	54.0	13.9	100	242
6	2160.006	26.2	25.5	8.8	28.5	32.0	54.0	22.0	100	200
7	2376.026	34.0	26.7	9.3	28.5	41.5	54.0	12.5	100	161
8	2568.814	28.1	27.7	9.7	28.4	37.1	54.0	16.9	100	199
9	2970.038	39.5	28.9	10.5	28.4	50.5	54.0	3.5	120	183
10	3267.032	30.7	28.9	11.1	28.4	42.3	54.0	11.7	100	223
11	3564.032	29.7	29.0	11.9	28.3	42.3	54.0	11.7	100	32
12	3925.262	23.0	30.0	12.8	28.3	37.5	54.0	16.5	100	200
13	5468.664	22.1	34.9	14.9	28.1	43.8	54.0	10.2	100	55
----- Vertical -----										
14	1485.018	46.9	24.6	7.4	28.5	50.4	54.0	3.6	100	197
15	1793.032	29.0	24.6	8.1	28.5	33.2	54.0	20.8	100	148
16	1831.506	24.8	24.6	8.1	28.5	29.0	54.0	25.0	100	239
17	1980.006	29.5	24.6	8.4	28.5	34.0	54.0	20.0	100	358
18	2078.994	34.8	25.0	8.6	28.5	39.9	54.0	14.1	100	116
19	2160.006	26.9	25.5	8.8	28.5	32.7	54.0	21.3	100	199
20	2376.058	37.9	26.7	9.3	28.5	45.4	54.0	8.6	125	182
21	2475.058	37.5	27.3	9.5	28.5	45.8	54.0	8.2	100	348
22	2574.006	27.5	27.7	9.7	28.4	36.5	54.0	17.5	100	200
23	2970.038	38.1	28.9	10.5	28.4	49.1	54.0	4.9	100	210
24	3267.032	30.5	28.9	11.1	28.4	42.1	54.0	11.9	100	116
25	3564.064	28.2	29.0	11.9	28.3	40.8	54.0	13.2	100	227
26	3762.000	23.2	29.5	12.3	28.3	36.7	54.0	17.3	100	32
27	3938.282	25.1	30.0	12.8	28.3	39.6	54.0	14.4	110	219
28	5468.965	22.6	34.9	14.9	28.1	44.3	54.0	9.7	100	228

< USB MODE_30 MHz ~ 1 GHz >

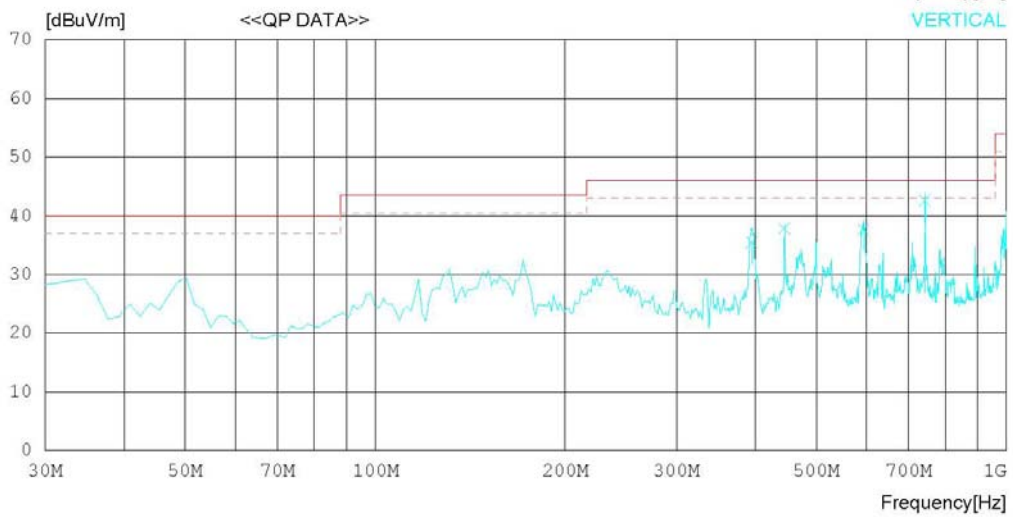
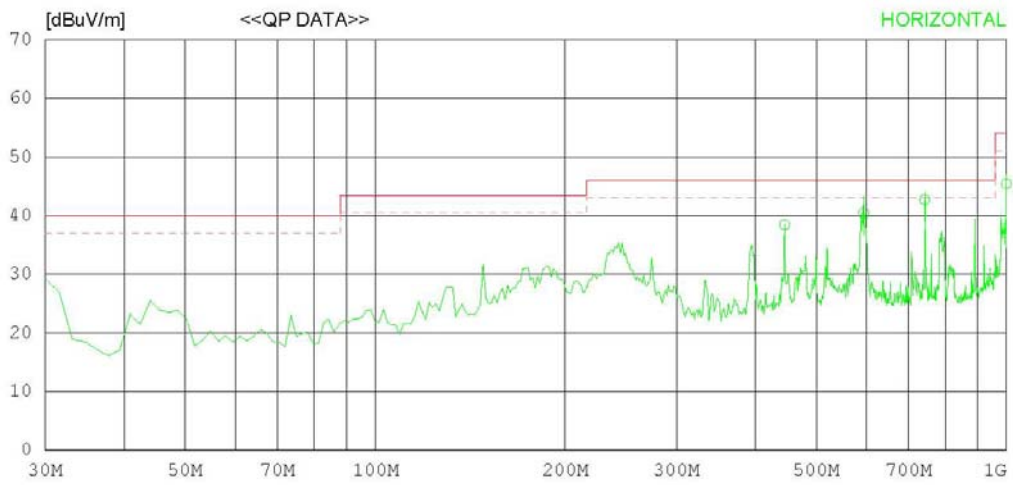
RADIATED EMISSION

Date : 2013-02-15

Model Name	: 47LN5750-UH	Reference No.	:	
Model No.	:	Power Supply	:	120V 60Hz
Serial No.	:	Temp/Humi	:	24°C 33% R. H.
Test Condition	: USB	Operator	:	

Memo :

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



RADIATED EMISSION

Date : 2013-02-15

Model Name : 47LN5750-UH
 Model No. :
 Serial No. :
 Test Condition : USB

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 24°C 33% R. H.
 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	445.218	41.6	16.6	3.5	23.3	38.4	46.0	7.6	202	222
2	594.000	41.1	18.6	4.1	23.4	40.4	46.0	5.6	196	32
3	742.503	42.6	19.2	4.6	23.7	42.7	46.0	3.3	201	182
4	1000.000	40.3	22.3	5.5	22.7	45.4	54.0	8.6	201	158
----- Vertical -----										
5	395.660	39.6	15.9	3.5	23.5	35.5	46.0	10.5	100	156
6	445.016	41.0	16.6	3.5	23.3	37.8	46.0	8.2	212	169
7	594.000	38.4	18.6	4.1	23.4	37.7	46.0	8.3	100	116
8	742.503	42.5	19.2	4.6	23.7	42.6	46.0	3.4	100	272

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

RADIATED EMISSION

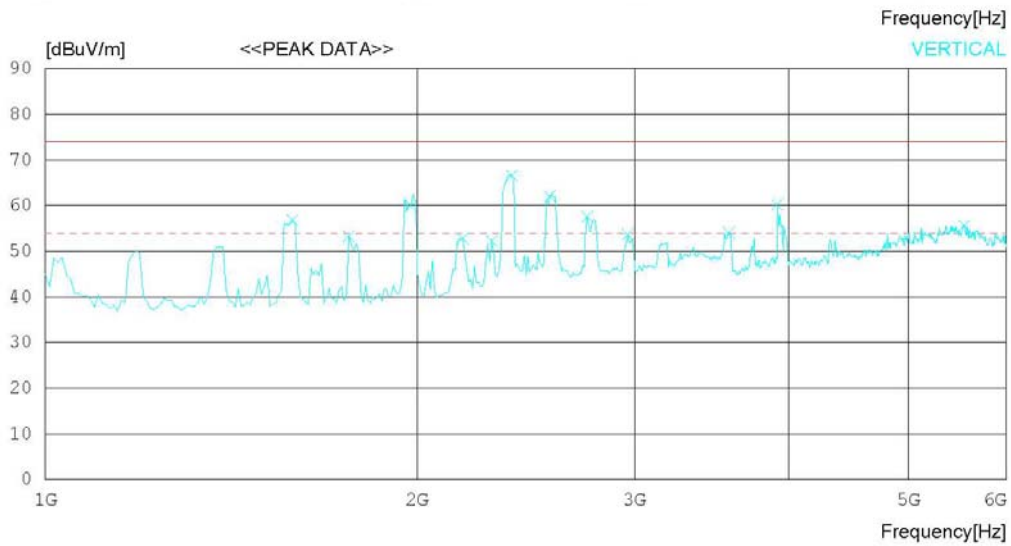
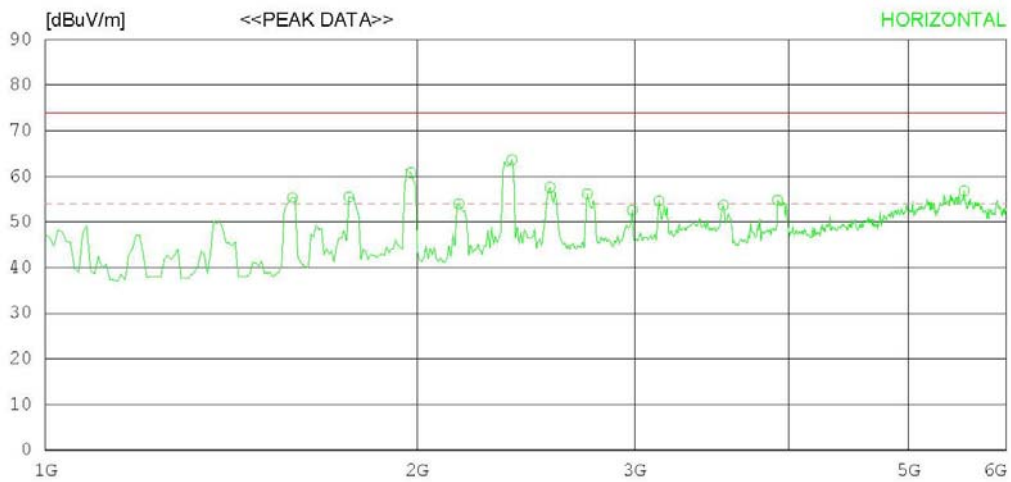
Date : 2013-02-15

Model Name : 47LN5750-UH
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 24°C 33% 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 : 2013-02-15

Model Name	: 47LN5750-UH	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 24°C 33% 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	1584.936	51.5	24.6	7.7	28.5	55.3	74.0	18.7	100	157
2	1761.218	51.4	24.6	8.0	28.5	55.5	74.0	18.5	100	358
3	1977.564	56.3	24.6	8.4	28.5	60.8	74.0	13.2	100	198
4	2161.860	48.2	25.5	8.8	28.5	54.0	74.0	20	100	207
5	2386.223	56.0	26.8	9.3	28.5	63.6	74.0	10.4	100	358
6	2562.507	48.7	27.6	9.7	28.4	57.6	74.0	16.4	100	201
7	2746.805	46.4	28.2	10.0	28.4	56.2	74.0	17.8	100	358
8	2987.193	41.6	28.9	10.5	28.4	52.6	74.0	21.4	100	358
9	3139.439	43.2	29.0	10.8	28.4	54.6	74.0	19.4	100	178
10	3540.086	41.2	29.0	11.8	28.3	53.7	74.0	20.3	100	358
11	3916.694	40.5	29.9	12.7	28.3	54.8	74.0	19.2	100	203
12	5543.277	35.3	34.8	14.9	28.2	56.8	74.0	17.2	100	358
----- Vertical -----										
13	1584.936	53.0	24.6	7.7	28.5	56.8	74.0	17.2	100	181
14	1761.218	49.2	24.6	8.0	28.5	53.3	74.0	20.7	100	123
15	1977.564	55.5	24.6	8.4	28.5	60.0	74.0	14	100	187
16	2177.886	46.9	25.6	8.8	28.5	52.8	74.0	21.2	100	163
17	2298.080	45.4	26.3	9.1	28.5	52.3	74.0	21.7	100	187
18	2386.223	59.0	26.8	9.3	28.5	66.6	74.0	7.4	100	1
19	2562.507	53.2	27.6	9.7	28.4	62.1	74.0	11.9	100	1
20	2746.805	47.8	28.2	10.0	28.4	57.6	74.0	16.4	100	1
21	2963.154	42.8	28.9	10.4	28.4	53.7	74.0	20.3	100	201
22	3580.151	41.4	29.1	11.9	28.3	54.1	74.0	19.9	100	216
23	3916.694	45.9	29.9	12.7	28.3	60.2	74.0	13.8	100	167
24	5543.277	34.2	34.8	14.9	28.2	55.7	74.0	18.3	100	70

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

RADIATED EMISSION

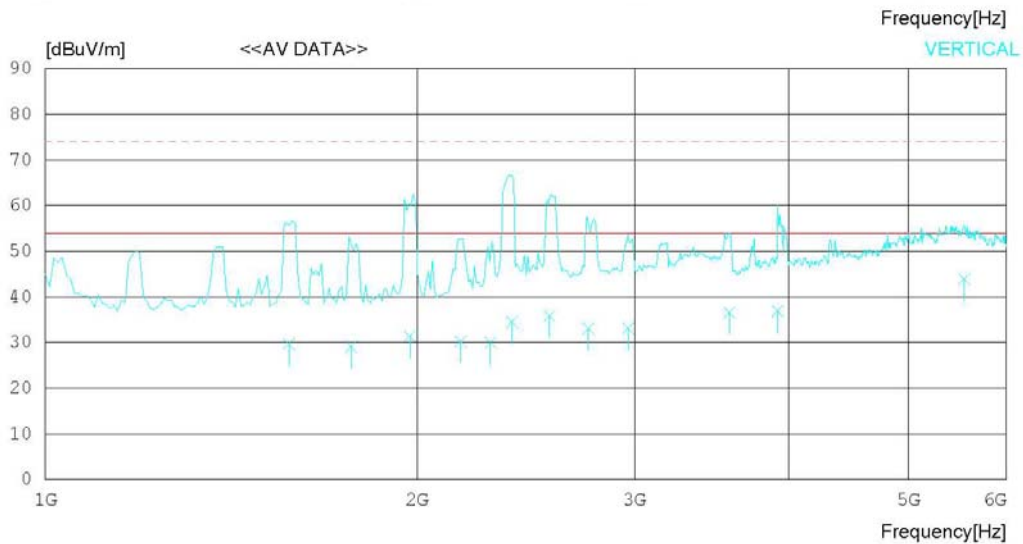
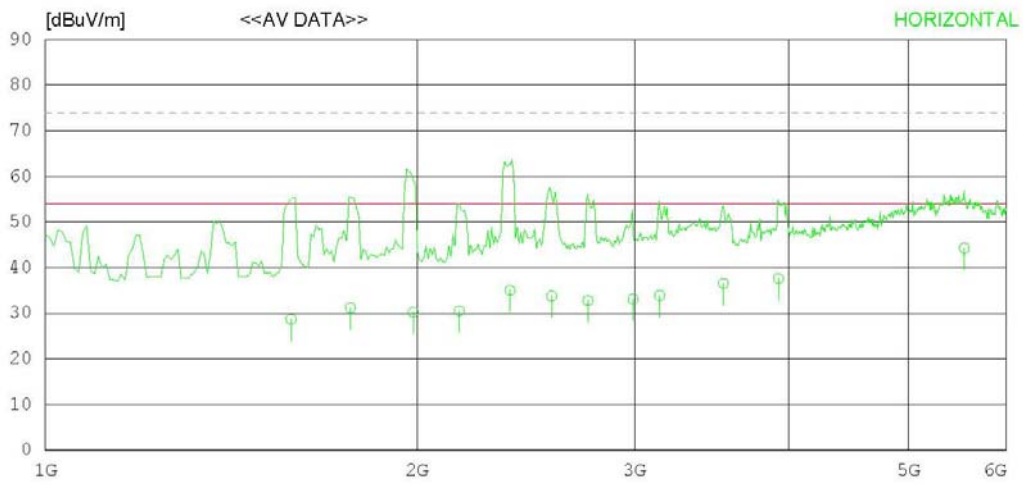
Date : 2013-02-15

Model Name : 47LN5750-UH
 Model No. :
 Serial No. :
 Test Condition : USB

Reference No. :
 Power Supply : 120V 60Hz
 Temp/Humi : 24°C 33% 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 : 2013-02-15

Model Name : 47LN5750-UH	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 24°C 33% 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	1581.212	24.9	24.6	7.7	28.5	28.7	54.0	25.3	100	157
2	1766.448	27.1	24.6	8.0	28.5	31.2	54.0	22.8	100	52
3	1985.269	25.7	24.6	8.4	28.5	30.2	54.0	23.8	100	198
4	2163.350	24.7	25.5	8.8	28.5	30.5	54.0	23.5	100	207
5	2378.115	27.5	26.7	9.3	28.5	35.0	54.0	19.0	100	358
6	2569.308	24.8	27.7	9.7	28.4	33.8	54.0	20.2	100	201
7	2750.060	23.0	28.2	10.0	28.4	32.8	54.0	21.2	100	358
8	2991.552	22.0	29.0	10.5	28.4	33.1	54.0	20.9	129	358
9	3143.872	22.4	29.0	10.9	28.4	33.9	54.0	20.1	100	178
10	3540.641	24.1	29.0	11.8	28.3	36.6	54.0	17.4	100	25
11	3922.859	23.2	30.0	12.7	28.3	37.6	54.0	16.4	100	203
12	5546.985	22.8	34.8	14.9	28.2	44.3	54.0	9.7	100	48
----- Vertical -----										
13	1574.096	26.0	24.6	7.6	28.5	29.7	54.0	24.3	100	181
14	1769.077	25.0	24.6	8.0	28.5	29.1	54.0	24.9	100	123
15	1974.212	26.9	24.6	8.4	28.5	31.4	54.0	22.6	100	187
16	2169.660	24.5	25.5	8.8	28.5	30.3	54.0	23.7	100	163
17	2293.962	23.2	26.3	9.1	28.5	30.1	54.0	23.9	100	187
18	2387.090	26.9	26.8	9.3	28.5	34.5	54.0	19.5	127	28
19	2560.942	27.0	27.6	9.7	28.4	35.9	54.0	18.1	100	199
20	2752.058	23.3	28.2	10.0	28.4	33.1	54.0	20.9	100	342
21	2965.115	22.2	28.9	10.4	28.4	33.1	54.0	20.9	100	201
22	3582.435	23.9	29.1	11.9	28.3	36.6	54.0	17.4	100	216
23	3916.609	22.6	29.9	12.7	28.3	36.9	54.0	17.1	115	167
24	5547.518	22.4	34.8	14.9	28.2	43.9	54.0	10.1	100	70

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
<input type="checkbox"/> SPECTRUM ANALYZER	8591E	H/P	3649A05889	2012.03.05	2013.03.05
<input type="checkbox"/> RFI/FIELD INTENSITY METER	KNM-2402	KYORITSU	4N-170-3	2012.07.02	2013.07.02
<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	2012.07.25	2013.07.25
<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	2012.03.06	2013.03.06
<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	2012.07.02	2013.07.02
<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	MLA-100M18-B01-25	TSJ	1719458	2012.06.04	2013.06.04
<input type="checkbox"/> SPECTRUM ANALYZER	E4411B	AGILENT	US41062735	2012.07.11	2013.07.11
<input type="checkbox"/> AMPLIFIER	8447D	AGILENT	2443A03690	2012.07.01	2013.07.01
<input type="checkbox"/> EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2012.03.06	2013.03.06
<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	2012.03.05	2013.03.05

Appendix 2

Report Revision History

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