Digital EMC
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http://www.digitalemc.com

FCC Test Report

for

LCD TV

Applicant : **LG Electronics Inc.**

Model Number : **47LD650H-UA**

Manufacturer : **LG Electronics Inc.**

Test Standard : **ANSI C 63.4:2003**
FCC Part 15 Subpart B
(Type of Device : Class B Computing Device Peripheral (JBP))

Date of Tests : **August 26 ~ September 08, 2010**

Date of Issue : **September 10, 2010**

Tested by : D.H.EUN/Assistant Manager

Reviewed by : Y.K.SHIN/Manager

This test result only responds to the tested sample.

It is not allowed to copy this report even partly without the allowance of the test laboratory.

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1. General Remarks

This Report describes the emission characteristics of the tested product.

If the product will be used with additional equipment other than those mentioned in this report or if the tested product will be used against the manufacture's specifications, the compliance with the relevant standards for the system has to be ensured.

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	Test Facility list & NSA Data
	Japan	VCCI	C-1427 R-1364, R-3385 T-1442	Test Facility list & NSA Data
Certification	Korea	KCC	KR0034	Test Facility list & NSA Data
	Germany	TUV	ROK0826C	ISO/IEC 17025

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

DIGITAL EMC CO., LTD.

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3. General Information of EUT

3.1 Product Information

Equipment under Test	LCD TV
Model No.	47LD650H-UA
Serial No	NONE
Type of Sample Tested	Pre-Production
Rating Power Supply	AC100-240V, 50/60Hz
High Frequency	667MHz,1920*1080(HDMI,D sub max resolution)
Supplied Power for Test	AC120V, 60Hz
Applicant	LG Electronics Inc. 19-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, Korea
Manufacturer	LG Electronics Inc. 19-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, Korea
Factory	LG Electronics Reynosa, Inc. LG Electronics USA, Inc_Reynosa 9801 South Cage Blvd. Suite 3F Pharr, TX. 78577
Date of Receipt of Sample	2010-08-26

< Product Specifications >

RGB-PC

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
720x400	31.469	70.08
640x480	31.469 37.861	59.94 72.80
800x600	37.879 48.077	60.31 72.18
1024x768	48.363 56.476	60.00 70.06
1280x768	47.776 60.289	59.870 74.893
1360x768	47.712	60.015
1280x1024	63.981 79.976	60.020 75.025
1920x1080	66.587	59.934

Depending on models

HDMI-PC

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
720x400	31.469	70.08
640x480	31.469	59.94
800x600	35.156 37.879	56.25 60.31
1024x768	48.363	60.00
1280x768	47.776	59.87
1360x768	47.712	60.015
1280x1024	63.981	60.02
1920x1080	67.50	60.00

Depending on models

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4. Test Summary

4.1 Summary of tests

The applied standards to evaluate the compliance of requirements is 47CFR Part 15, Subpart B and the measurement procedures specified in ANSI C63.4 are performed.

Test Items	Applied Standards	Status
Emission		
Conducted Emission	FCC Part 15 Subpart B	C
Radiated Emission	FCC Part 15 Subpart B	C
Note 1: C=Conform NC=Not Conform NT=Not Tested NA=Not Applicable		

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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

- DSUB mode : Resolution 1920*1080 MAX, “H” character scroll
- HDMI mode : Resolution 1920*1080 MAX, “H” character scroll
- USB mode : USB file play

EUT is the following operational conditions apply:

a) Set the contrast control to maximum.

b) Set the brightness control to maximum or at raster extinction if raster extinction occurs at less thanmaximum brightness.

c) For color monitors, use white letters on a black background to represent all colors.

d) Select the worse case of positive or negative video if both alternatives are available.

e) Set character size and number of characters per line so that the typical maximum number of charac-ters per screen is displayed.

f) For a monitor that has no graphics capabilities, regardless of the video card used, a pattern consistingof random text shall be displayed. For a monitor with graphics capability, even though another videocard may be needed to accomplish a graphic display, a screen pattern consisting of lines of scrollingH’s should be displayed. For a monitor that has no text capabilities, use a typical display. That pat-tern should be used for the remainder of the tests.

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5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE			Backshell	FCC ID
				Connect type	Length (m)	shield		
Notebook	LGT28	003QTAF063488	LG	DSUB HDMI	1.8 1.8	Non-shield Shield	Plastic Plastic	DOC
USB Memory	U1	N/A	AXXEN	USB	-	Non-shield	Plastic	DOC

NOTE

- See “APPENDIX 1 Photographs” for actual system test setup

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6. Test Results : Emission

6.1 Conducted Emission

RESULT : COMPLY

6.1.1 Measurement Procedure

In the range of 0.15MHz to 30MHz, the conducted emission was measured and set-up was made accordance with **ANSI C63.4:2003.**

If the EUT is table top equipment, it was placed on a wooden table with a height of 0.8m above the reference ground plane and 0.4m 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 0.15m 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 TOYO conducted emission test software, the emissions were scanned from 150KHz to 30MHz 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 List of Test and Measurement Instruments

Name of Instrument	Model No.	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
EMI Test Receiver	ESCI	100364	R&S	2010.05.12	2011.05.12
Spectrum Analyzer	8594E	39911A05752	AGILENT	2009.10.06	2010.10.06
LISN	LISN1600	197204	TTI	2010.07.02	2011.07.02
LISN(EUT)	ESH2-Z5	828739/006	R&S	2009.10.01	2010.10.01
50 ohm Terminator	CT-01	N/A	TME	2010.01.12	2011.01.12

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6.1.3 Limit for Conducted Emission

(1) Conducted Emission at mains ports of class A

Frequency range (MHz)	Limits dB(μV)	
	Quasi-peak	Average
0.15 to 0.50	79	66
0.50 to 30	73	60
Note The lower limit shall apply at the transition frequencies.		

(2) Conducted Emission at mains ports of class B

Frequency range (MHz)	Limits dB(μV)	
	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
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 0.15MHz to 0.5MHz.		

6.1.4 Test Result

Test date	August 26, 2010
Ambient Temperature	25 ℃
Relative Humidity	58 % R.H.

Result : For the measurement data, see next page.

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

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

3. Margin = Limit - Emission level

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Test Result

< DSUB MODE >

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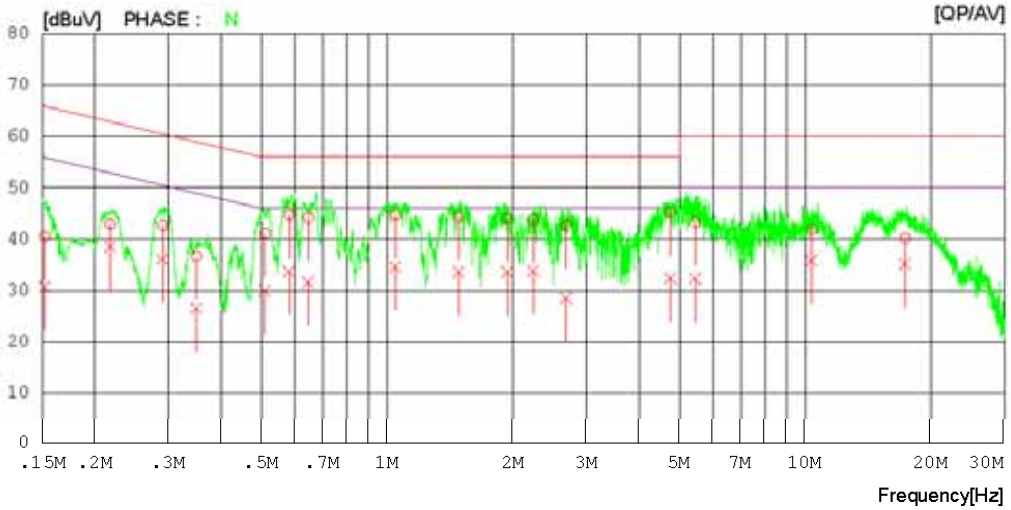
Results of Conducted Emission

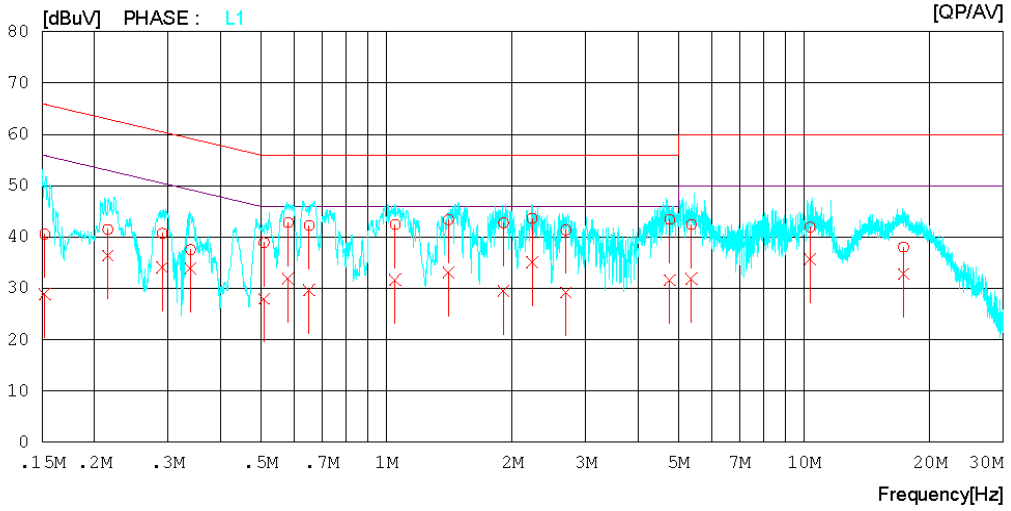
Digital EMC
Date : 2010/08/26

Model No.	:	47LD650H-UA	Referrence No.	:	
Type	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi.	:	25 ℃ 58 % R.H.
Test Condition	:	DSUB	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV





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Digital EMC

Results of Conducted Emission

Digital EMC
Date : 2010/08/26

Model No.	:	47LD650H-UA	Referrence No.	:	
Type	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi.	:	25 ℃ 58 % R.H.
Test Condition	:	DSUB	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING QP [dBuV]	READING AV [dBuV]	C.FACTOR [dB]	RESULT QP [dBuV]	RESULT AV [dBuV]	LIMIT QP [dBuV]	LIMIT AV [dBuV]	MARGIN QP [dBuV]	MARGIN AV [dBuV]	PHASE
1	0.15174	40.3	30.5	0.2	40.5	30.7	65.9	55.9	25.4	25.2	N
2	0.21746	42.7	38.3	0.2	42.9	38.5	62.9	52.9	20.0	14.4	N
3	0.29065	42.5	35.9	0.2	42.7	36.1	60.5	50.5	17.8	14.4	N
4	0.34976	36.4	26.3	0.3	36.7	26.6	59.0	49.0	22.3	22.4	N
5	0.50970	40.8	29.7	0.3	41.1	30.0	56.0	46.0	14.9	16.0	N
6	0.58283	44.5	33.5	0.2	44.7	33.7	56.0	46.0	11.3	12.3	N
7	0.64773	44.0	31.4	0.2	44.2	31.6	56.0	46.0	11.8	14.4	N
8	1.04600	44.4	34.2	0.3	44.7	34.5	56.0	46.0	11.3	11.5	N
9	1.48050	44.1	33.3	0.3	44.4	33.6	56.0	46.0	11.6	12.4	N
10	1.94000	43.8	33.3	0.3	44.1	33.6	56.0	46.0	11.9	12.4	N
11	2.23550	43.5	33.6	0.3	43.8	33.9	56.0	46.0	12.2	12.1	N
12	2.67650	42.4	28.2	0.3	42.7	28.5	56.0	46.0	13.3	17.5	N
13	4.74700	44.9	31.9	0.5	45.4	32.4	56.0	46.0	10.6	13.6	N
14	5.44150	42.8	31.8	0.5	43.3	32.3	60.0	50.0	16.7	17.7	N
15	10.33000	41.3	35.3	0.6	41.9	35.9	60.0	50.0	18.1	14.1	N
16	17.30350	39.3	34.2	0.9	40.2	35.1	60.0	50.0	19.8	14.9	N
17	0.15196	40.4	28.7	0.2	40.6	28.9	65.9	55.9	25.3	27.0	L1
18	0.21514	41.3	36.2	0.2	41.5	36.4	63.0	53.0	21.5	16.6	L1
19	0.29048	40.5	33.9	0.2	40.7	34.1	60.5	50.5	19.8	16.4	L1
20	0.33970	37.3	33.6	0.3	37.6	33.9	59.2	49.2	21.6	15.3	L1
21	0.50918	38.6	27.7	0.3	38.9	28.0	56.0	46.0	17.1	18.0	L1
22	0.58160	42.6	31.7	0.2	42.8	31.9	56.0	46.0	13.2	14.1	L1
23	0.65220	42.0	29.5	0.2	42.2	29.7	56.0	46.0	13.8	16.3	L1
24	1.04800	42.2	31.4	0.3	42.5	31.7	56.0	46.0	13.5	14.3	L1
25	1.40750	43.1	32.8	0.3	43.4	33.1	56.0	46.0	12.6	12.9	L1
26	1.90650	42.5	29.2	0.3	42.8	29.5	56.0	46.0	13.2	16.5	L1
27	2.23300	43.4	34.8	0.3	43.7	35.1	56.0	46.0	12.3	10.9	L1
28	2.68850	41.1	28.9	0.3	41.4	29.2	56.0	46.0	14.6	16.8	L1
29	4.76200	42.9	31.1	0.5	43.4	31.6	56.0	46.0	12.6	14.4	L1
30	5.36800	42.0	31.4	0.5	42.5	31.9	60.0	50.0	17.5	18.1	L1
31	10.33350	41.3	35.1	0.6	41.9	35.7	60.0	50.0	18.1	14.3	L1
32	17.29300	37.2	31.9	0.9	38.1	32.8	60.0	50.0	21.9	17.2	L1

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< HDMI MODE >

Digital EMC

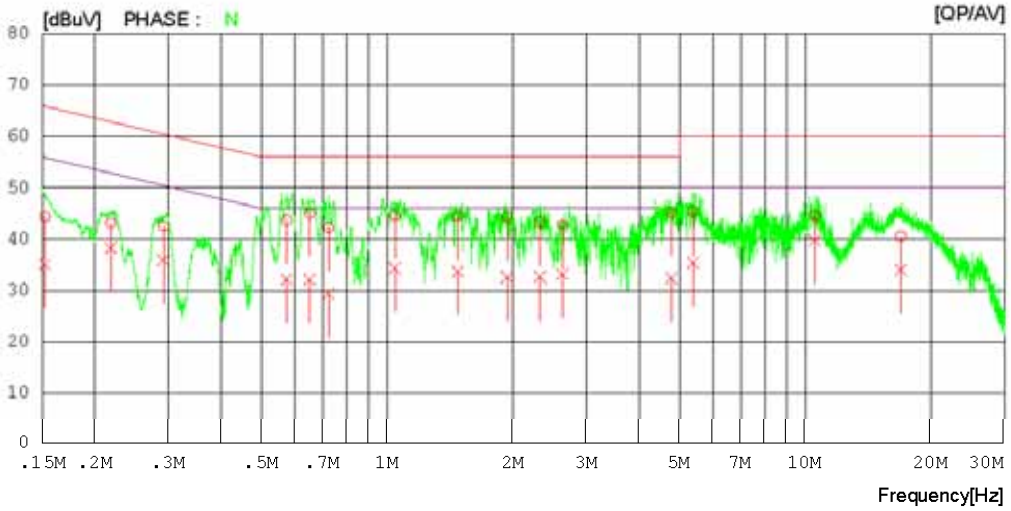
Results of Conducted Emission

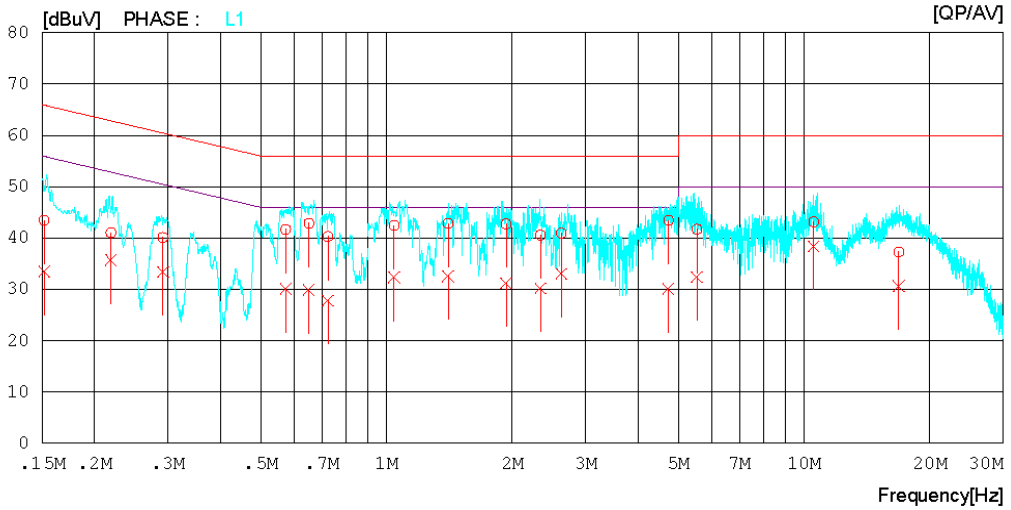
Digital EMC
Date : 2010/08/26

Model No.	:	47LD650H-UA	Referrence No.	:	
Type	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi.	:	25 ℃ 58 % R.H.
Test Condition	:	HDMI	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV





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Digital EMC

Results of Conducted Emission

Digital EMC
Date : 2010/08/26

Model No.	: 47LD650H-UA	Referrence No.	:
Type	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi.	: 25 ℃ 58 % R.H.
Test Condition	: HDMI	Operator	:

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING QP [dBuV]	READING AV [dBuV]	C.FACTOR [dB]	RESULT QP [dBuV]	RESULT AV [dBuV]	LIMIT QP [dBuV]	LIMIT AV [dBuV]	MARGIN QP [dBuV]	MARGIN AV [dBuV]	PHASE
1	0.15185	44.2	34.9	0.2	44.4	35.1	65.9	55.9	21.5	20.8	N
2	0.21856	43.0	38.1	0.2	43.2	38.3	62.9	52.9	19.7	14.6	N
3	0.29199	42.4	35.7	0.2	42.6	35.9	60.5	50.5	17.9	14.6	N
4	0.57414	43.5	31.9	0.2	43.7	32.1	56.0	46.0	12.3	13.9	N
5	0.65244	44.8	31.9	0.2	45.0	32.1	56.0	46.0	11.0	13.9	N
~~6~~	~~0.72350~~	~~42.0~~	~~29.1~~	~~0.3~~	~~42.3~~	~~29.4~~	~~56.0~~	~~46.0~~	~~13.7~~	~~16.6~~	~~N~~
7	1.04350	44.4	34.0	0.3	44.7	34.3	56.0	46.0	11.3	11.7	N
8	1.47500	44.2	33.4	0.3	44.5	33.7	56.0	46.0	11.5	12.3	N
9	1.93550	44.0	32.3	0.3	44.3	32.6	56.0	46.0	11.7	13.4	N
10	2.31900	43.0	32.3	0.3	43.3	32.6	56.0	46.0	12.7	13.4	N
11	2.62450	42.4	32.9	0.3	42.7	33.2	56.0	46.0	13.3	12.8	N
12	4.77500	44.7	31.9	0.5	45.2	32.4	56.0	46.0	10.8	13.6	N
13	5.38650	44.9	34.9	0.5	45.4	35.4	60.0	50.0	14.6	14.6	N
14	10.52900	44.0	39.1	0.6	44.6	39.7	60.0	50.0	15.4	10.3	N
15	16.88800	39.7	33.1	0.9	40.6	34.0	60.0	50.0	19.4	16.0	N
16	0.15150	43.2	33.3	0.2	43.4	33.5	65.9	55.9	22.5	22.4	L1
17	0.21896	40.8	35.5	0.2	41.0	35.7	62.9	52.9	21.9	17.2	L1
18	0.29141	39.9	33.2	0.2	40.1	33.4	60.5	50.5	20.4	17.1	L1
19	0.57350	41.5	29.9	0.2	41.7	30.1	56.0	46.0	14.3	15.9	L1
20	0.65186	42.7	29.7	0.2	42.9	29.9	56.0	46.0	13.1	16.1	L1
21	0.72344	40.0	27.6	0.3	40.3	27.9	56.0	46.0	15.7	18.1	L1
22	1.04250	42.1	32.0	0.3	42.4	32.3	56.0	46.0	13.6	13.7	L1
23	1.40450	42.5	32.3	0.3	42.8	32.6	56.0	46.0	13.2	13.4	L1
24	1.93400	42.5	30.9	0.3	42.8	31.2	56.0	46.0	13.2	14.8	L1
25	2.33700	40.3	29.9	0.3	40.6	30.2	56.0	46.0	15.4	15.8	L1
26	2.62200	40.7	32.7	0.3	41.0	33.0	56.0	46.0	15.0	13.0	L1
27	4.73350	43.0	29.6	0.5	43.5	30.1	56.0	46.0	12.5	15.9	L1
28	5.53300	41.2	31.9	0.5	41.7	32.4	60.0	50.0	18.3	17.6	L1
29	10.53100	42.6	37.8	0.6	43.2	38.4	60.0	50.0	16.8	11.6	L1
30	16.84500	36.4	29.8	0.9	37.3	30.7	60.0	50.0	22.7	19.3	L1

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< USB MODE >

Digital EMC

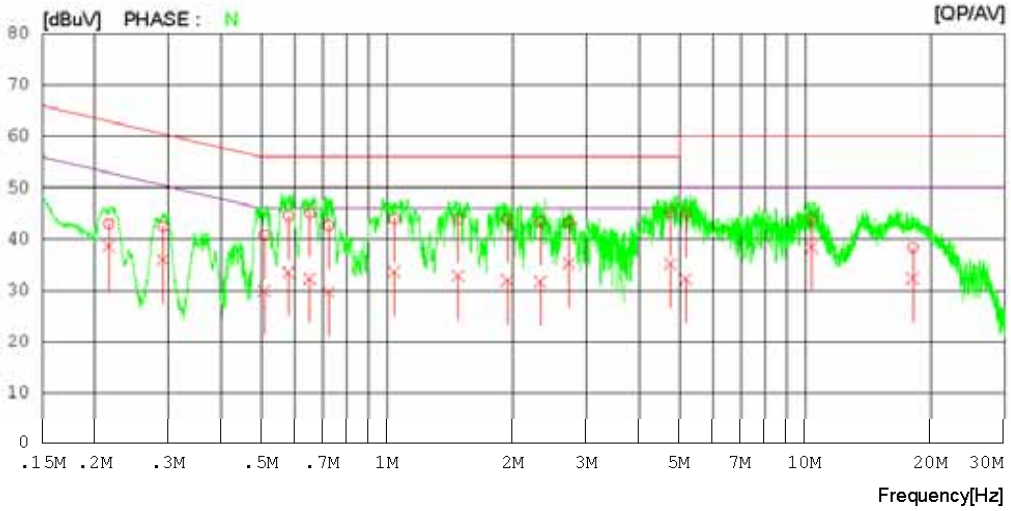
Results of Conducted Emission

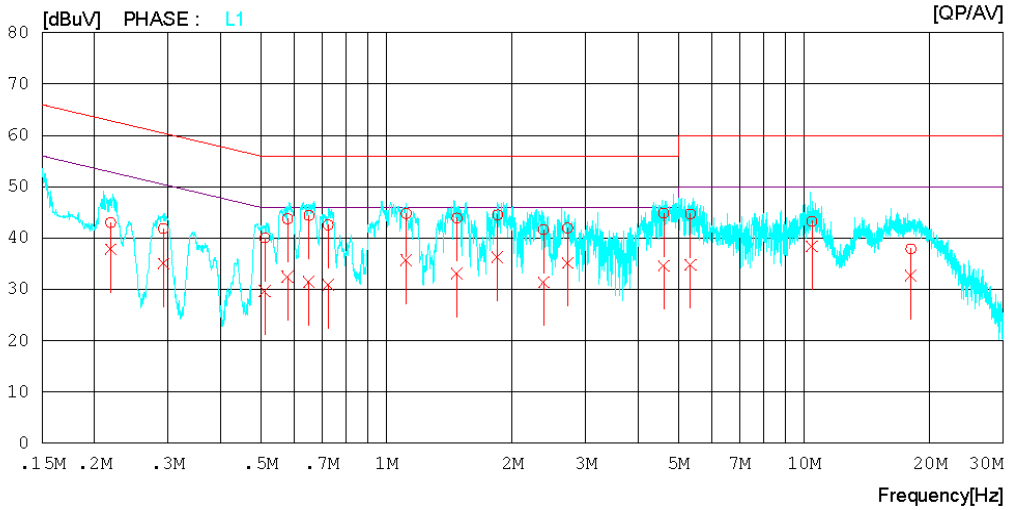
Digital EMC
Date : 2010/08/26

Model No.	:	47LD650H-UA	Referrence No.	:	
Type	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi.	:	25 ℃ 58 % R.H.
Test Condition	:	USB	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV





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Digital EMC

Results of Conducted Emission

Digital EMC
Date : 2010/08/26

Model No.	:	47LD650H-UA	Referrence No.	:	
Type	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi.	:	25 ℃ 58 % R.H.
Test Condition	:	USB	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING QP [dBuV]	READING AV [dBuV]	C.FACTOR [dB]	RESULT QP [dBuV]	RESULT AV [dBuV]	LIMIT QP [dBuV]	LIMIT AV [dBuV]	MARGIN QP [dBuV]	MARGIN AV [dBuV]	PHASE
1	0.21589	42.8	38.4	0.2	43.0	38.6	63.0	53.0	20.0	14.4	N
2	0.29080	42.3	35.7	0.2	42.5	35.9	60.5	50.5	18.0	14.6	N
3	0.50808	40.4	29.6	0.3	40.7	29.9	56.0	46.0	15.3	16.1	N
4	0.58058	44.3	33.3	0.2	44.5	33.5	56.0	46.0	11.5	12.5	N
~~5~~	~~0.65274~~	~~44.8~~	~~32.1~~	~~0.2~~	~~45.0~~	~~32.3~~	~~56.0~~	~~46.0~~	~~11.0~~	~~13.7~~	~~N~~
6	0.72366	42.3	29.3	0.3	42.6	29.6	56.0	46.0	13.4	16.4	N
7	1.04000	43.7	33.2	0.3	44.0	33.5	56.0	46.0	12.0	12.5	N
8	1.47700	43.7	32.5	0.3	44.0	32.8	56.0	46.0	12.0	13.2	N
9	1.93550	43.7	31.7	0.3	44.0	32.0	56.0	46.0	12.0	14.0	N
10	2.32150	43.0	31.4	0.3	43.3	31.7	56.0	46.0	12.7	14.3	N
11	2.71900	42.9	35.0	0.3	43.2	35.3	56.0	46.0	12.8	10.7	N
12	4.75200	44.7	34.6	0.5	45.2	35.1	56.0	46.0	10.8	10.9	N
13	5.17600	44.4	31.7	0.5	44.9	32.2	60.0	50.0	15.1	17.8	N
14	10.33350	43.4	37.8	0.6	44.0	38.4	60.0	50.0	16.0	11.6	N
15	18.05400	37.4	31.4	1.0	38.4	32.4	60.0	50.0	21.6	17.6	N
16	0.21850	42.8	37.6	0.2	43.0	37.8	62.9	52.9	19.9	15.1	L1
17	0.29236	41.7	34.8	0.2	41.9	35.0	60.5	50.5	18.6	15.5	L1
18	0.51128	39.7	29.4	0.3	40.0	29.7	56.0	46.0	16.0	16.3	L1
19	0.57946	43.5	32.3	0.2	43.7	32.5	56.0	46.0	12.3	13.5	L1
20	0.65193	44.2	31.3	0.2	44.4	31.5	56.0	46.0	11.6	14.5	L1
21	0.72500	42.3	30.6	0.3	42.6	30.9	56.0	46.0	13.4	15.1	L1
22	1.11550	44.5	35.4	0.3	44.8	35.7	56.0	46.0	11.2	10.3	L1
23	1.47500	43.6	32.8	0.3	43.9	33.1	56.0	46.0	12.1	12.9	L1
24	1.84400	44.2	36.0	0.3	44.5	36.3	56.0	46.0	11.5	9.7	L1
25	2.37800	41.4	31.1	0.3	41.7	31.4	56.0	46.0	14.3	14.6	L1
26	2.71550	41.7	34.9	0.3	42.0	35.2	56.0	46.0	14.0	10.8	L1
27	4.61200	44.3	34.0	0.5	44.8	34.5	56.0	46.0	11.2	11.5	L1
28	5.33700	44.2	34.3	0.5	44.7	34.8	60.0	50.0	15.3	15.2	L1
29	10.43300	42.7	37.8	0.6	43.3	38.4	60.0	50.0	16.7	11.6	L1
30	18.00250	36.9	31.7	1.0	37.9	32.7	60.0	50.0	22.1	17.3	L1

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6.2 Radiated Emission

RESULT : COMPLY

6.2.1 Measurement Procedure

The radiated emission was measured and set-up was made accordance with **ANSI C63.4:2003.**
If the EUT is tabletop equipment, it was placed on a wooden table with a height of 0.8m above the reference ground plane and 3m away from the interference receiving antenna **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 0.15m above the reference ground plane.
Rotate the EUT from 0° to 360° and position the receiving antenna at heights from 1 to 4m 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 1GHz frequency range, Quasi-Peak detector with 120kHz RBW was used.
Also Peak and Average detector with 1MHz RBW were used for above 1GHz frequency range.
For further description of the configuration refer to the picture of the test set-up.

6.2.2 List of Test and Measurement Instruments

Radiated Emission (10m Chamber)					
Name of Instrument	**Model No.**	**Serial No.**	**Manufacturer**	**Cal. Date**	**Next Cal. Date**
EMI Test Receiver	ESU	100014	R&S	2010.01.29	2011.01.29
Bilog Antenna	CBL6112D	22609	SCHAFFNER	2010.10.28	2011.10.28
Horn Antenna	3115	21097	ETS	2009.09.23	2010.09.23
Amplifier(22dB)	8447E	2945A02865	H/P	2010.01.29	2011.01.29
Low Noise Preamplifier	MLA-00108-B02-36	1518831	TSJ	2010.02.08	2011.02.08
Controller	5905A	N/A	TOKIN	-	-
ANT.master	N/A	N/A	TOKIN	-	-

6.2.3 Limit of Radiated Emission

- The test frequency range of Radiated Emission 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	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 40GHz, whichever is lower

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(1) Limit for Radiated Emission below 1000MHz

Frequency range (MHz)	Class A Equipment (10m distance)	Class B Equipment (3m distance)
	Quasi-peak limits (dBμV/m)	Quasi-peak limits (dBμV/m)
30 to 88	39.1	40
88 to 216	43.5	43.5
216 to 960	46.4	46
960 to 1000	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.		
30 to 230	40	30
230 to 1000	47	37

(2) Limits for Radiated Emission in the frequency range 1000 - 2000MHz at a measuring distance of 10m

Frequency (GHz)	Class A Equipment		Class B Equipment	
	peak (dBμV/m)	peak (dBμV/m)	peak (dBμV/m)	Average (dBμV/m)
1 to 2	69.5	49.5	63.5	43.5

(3) Limits for Radiated Emission above 1000MHz at a measuring distance of 3m

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

6.2.4 Test Result

Test date	August 31, 2010	September 08, 2010
Ambient Temperature	23 ℃	24 ℃
Relative Humidity	47 % R.H.	41 % R.H.

Result : For the measurement data, see next page

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

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

3. Margin = Limit - Emission level

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Test Result

< DSUB MODE >

- 30MHz-1GHz

Digital EMC

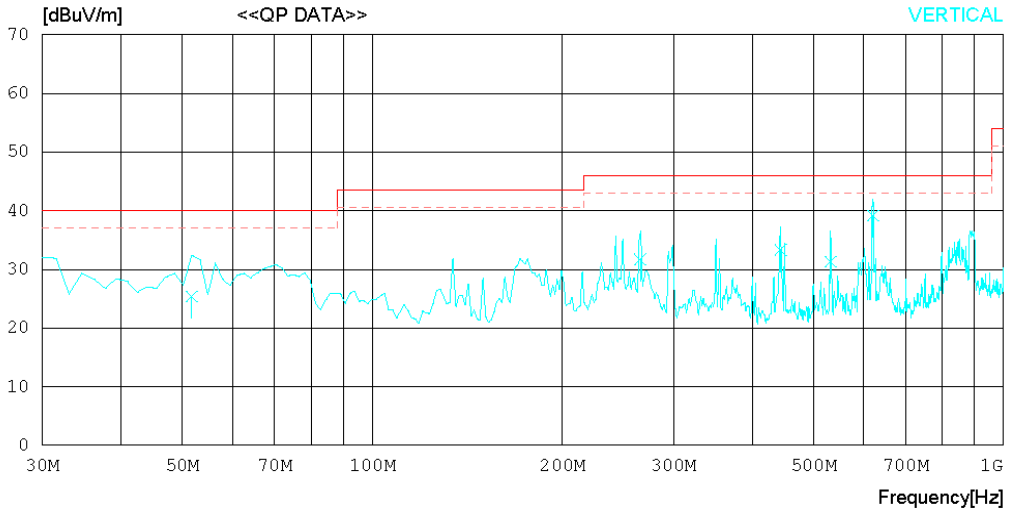
RADIATED EMISSION

Date : 2010-08-31

Model Name	: 47LD650H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 23 'C 47 % R.H.
Test Condition	: DSUB	Operator	:

Memo :

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



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RADIATED EMISSION

Date : 2010-08-31

Model Name	:	47LD650H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	23 'C 47 % R.H.
Test Condition	:	DSUB	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	69.600	41.5	6.4	1.0	22.7	26.2	40.0	13.8	278	88
2	150.000	44.7	10.3	1.4	23.0	33.4	43.5	10.1	100	1
3	215.995	45.1	11.6	1.7	23.4	35.0	43.5	8.5	100	206
4	265.585	43.0	13.5	1.9	23.6	34.8	46.0	11.2	100	324
5	350.224	46.1	15.0	2.2	24.0	39.3	46.0	6.7	177	0
6	619.750	40.0	18.8	3.0	24.3	37.5	46.0	8.5	142	0
7	860.100	34.5	20.1	3.5	23.4	34.7	46.0	11.3	201	0
----- Vertical ------										
8	51.763	39.4	7.8	0.9	22.7	25.4	40.0	14.6	100	143
9	265.823	39.9	13.5	1.9	23.6	31.7	46.0	14.3	199	1
10	443.770	38.5	16.7	2.5	24.4	33.3	46.0	12.7	100	260
11	532.098	35.1	18.0	2.7	24.5	31.3	46.0	14.7	100	0
12	621.185	41.7	18.8	3.0	24.3	39.2	46.0	6.8	100	344

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- 1GHz-6GHz

Digital EMC

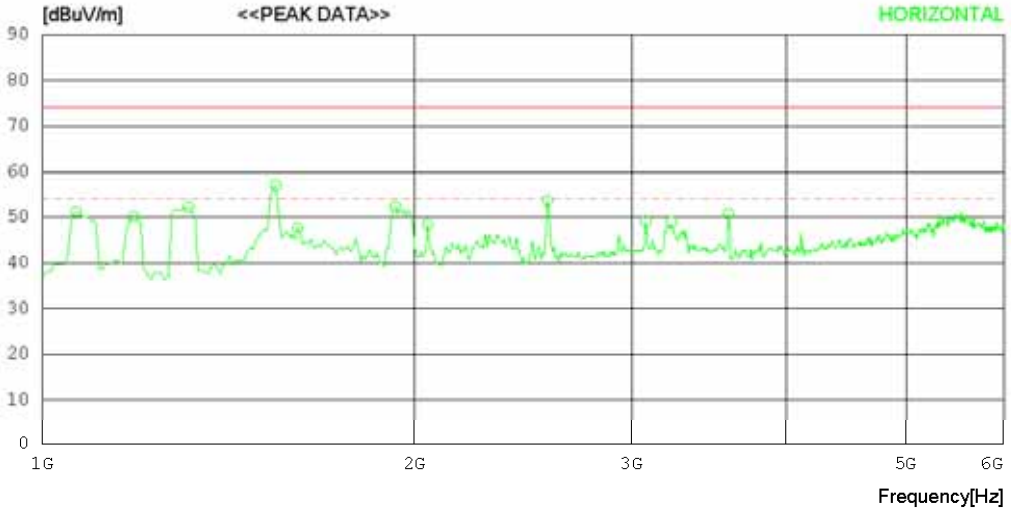
RADIATED EMISSION

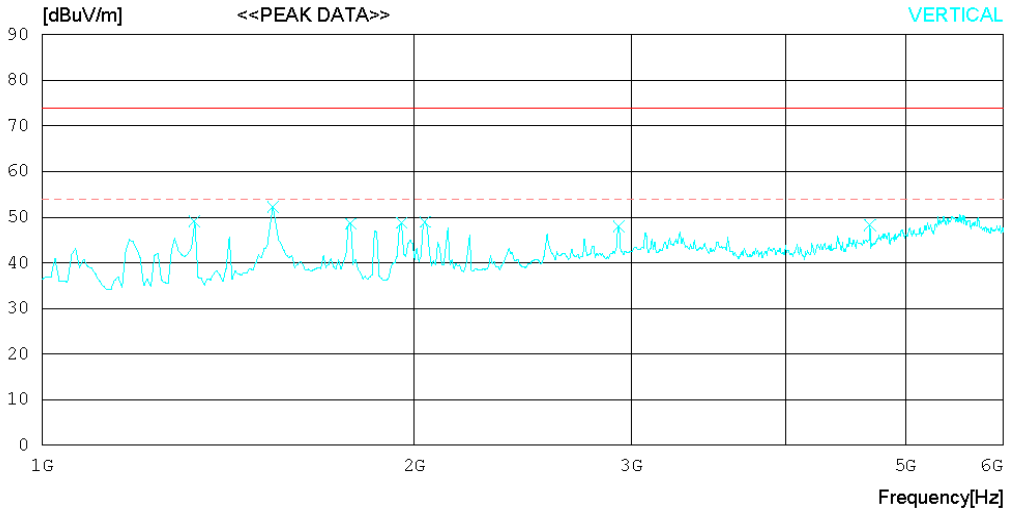
Date : 2010-09-08

Model Name	: 47LD650H-UA	Reference No.	:		
Model No.	:	Power Supply	:	120V	60Hz
Serial No.	:	Temp/Humi	:	24 'C	41 % R.H.
Test Condition	: DSUB	Operator	:		

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 8G(Peak)
FCC Part15 Subpart.B Class B (3m) - 8G(Avg)





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RADIATED EMISSION

Date : 2010-09-08

Model Name	:	47LD650H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	24 'C 41 % R.H.
Test Condition	:	DSUB	Operator	:	

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 8G(Peak)
FCC Part15 Subpart.B Class B (3m) - 8G(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	1064.103	64.3	23.8	5.0	41.9	51.2	74.0	22.8	100	227
2	1184.295	62.7	24.2	5.2	41.9	50.2	74.0	23.8	100	123
3	1312.500	64.1	24.6	5.5	41.9	52.3	74.0	21.7	100	358
4	1544.872	67.8	25.1	6.0	41.9	57.0	74.0	17	100	211
5	1608.974	58.2	25.2	6.2	41.9	47.7	74.0	26.3	100	358
6	1929.487	62.2	25.2	6.9	41.9	52.4	74.0	21.6	100	187
7	2049.679	57.9	25.4	7.1	41.9	48.5	74.0	25.5	100	358
8	2562.507	59.9	27.5	7.9	41.6	53.7	74.0	20.3	100	189
9	3075.335	52.6	28.9	8.9	41.3	49.1	74.0	24.9	100	159
10	3227.581	52.0	29.0	9.1	41.2	48.9	74.0	25.1	100	358
11	3588.164	52.9	29.3	9.5	40.9	50.8	74.0	23.2	100	223
----- Vertical ------										
12	1328.526	60.8	24.6	5.6	41.9	49.1	74.0	24.9	100	318
13	1536.859	63.1	25.1	6.0	41.9	52.3	74.0	21.7	100	174
14	1777.243	58.8	25.2	6.5	41.9	48.6	74.0	25.4	100	21
15	1953.525	58.6	25.2	6.9	41.9	48.8	74.0	25.2	100	318
16	2041.666	58.4	25.4	7.1	41.9	49.0	74.0	25	100	316
17	2931.103	52.1	28.6	8.6	41.3	48.0	74.0	26	100	188
18	4677.906	46.4	31.5	10.8	40.4	48.3	74.0	25.7	100	240

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Digital EMC

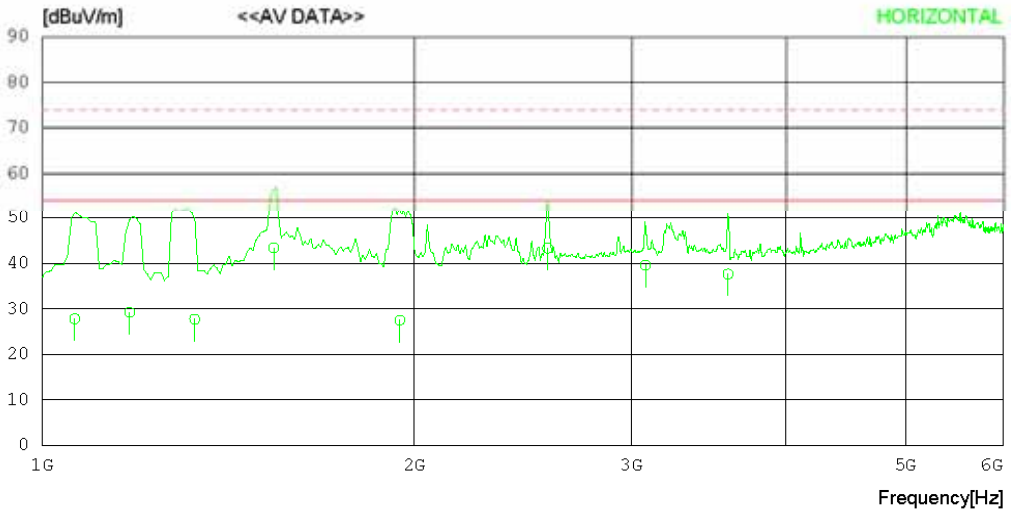
RADIATED EMISSION

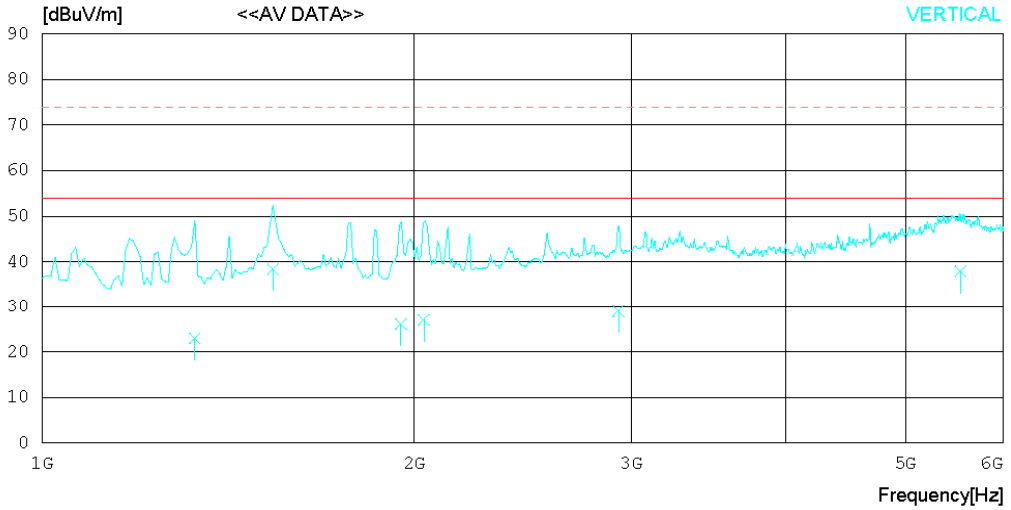
Date : 2010-09-08

Model Name	: 47LD650H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 24 'C 41 % R.H.
Test Condition	: DSUB	Operator	:

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 8G(Avg)
FCC Part15 Subpart.B Class B (3m) - 8G(Peak)





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RADIATED EMISSION

Date : 2010-09-08

Model Name	:	47LD650H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	24 'C 41 % R.H.
Test Condition	:	DSUB	Operator	:	

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 8G(Avg)
FCC Part15 Subpart.B Class B (3m) - 8G(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	1062.201	40.9	23.8	5.0	41.9	27.8	54.0	26.2	100	227
2	1176.904	41.7	24.2	5.2	41.9	29.2	54.0	24.8	100	123
3	1328.224	39.4	24.6	5.6	41.9	27.7	54.0	26.3	100	358
4	1539.035	54.2	25.1	6.0	41.9	43.4	54.0	10.6	100	211
5	1947.248	37.3	25.2	6.9	41.9	27.5	54.0	26.5	100	187
6	2564.836	49.5	27.5	7.9	41.6	43.3	54.0	10.7	100	189
7	3078.025	43.1	28.9	8.9	41.3	39.6	54.0	14.4	100	159
8	3591.048	39.7	29.3	9.5	40.9	37.6	54.0	16.4	100	223
----- Vertical ------										
9	1328.224	34.7	24.6	5.6	41.9	23.0	54.0	31.0	100	318
10	1536.859	49.2	25.1	6.0	41.9	38.4	54.0	15.6	100	174
11	1951.189	35.9	25.2	6.9	41.9	26.1	54.0	27.9	100	318
12	2036.307	36.4	25.4	7.1	41.9	27.0	54.0	27.0	100	316
13	2927.827	33.1	28.6	8.6	41.3	29.0	54.0	25.0	100	188
14	5540.810	31.1	34.9	11.9	40.0	37.9	54.0	16.1	100	240

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< HDMI MODE >

- 30MHz-1GHz

Digital E.M.C

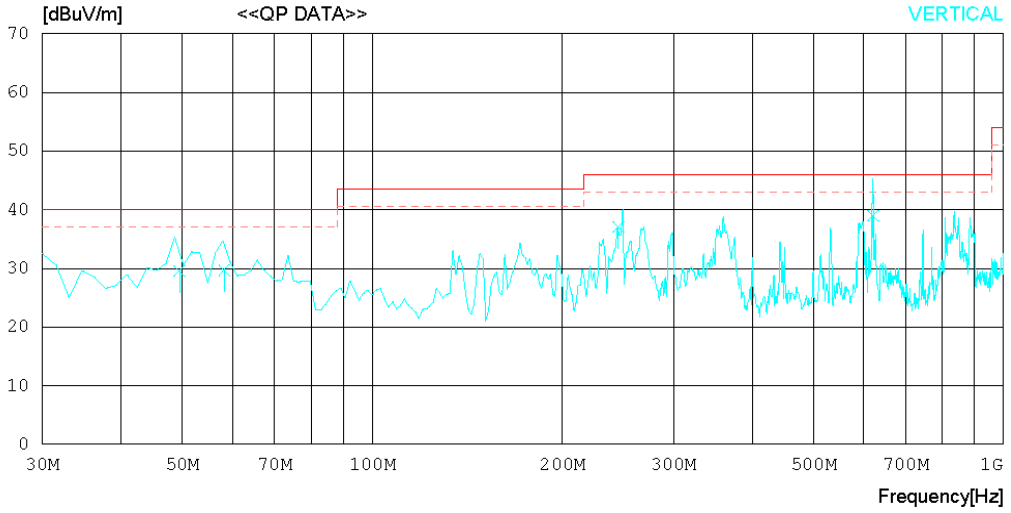
RADIATED EMISSION

Date : 2010-08-31

Model Name	: 47LD650H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 23 'C 47 % R.H.
Test Condition	: HDMI	Operator	:

Memo :

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



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RADIATED EMISSION

Date : 2010-08-31

Model Name	:	47LD650H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	23 'C 47 % 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	65.753	41.3	6.2	1.0	22.7	25.8	40.0	14.2	300	238
2	148.798	49.3	10.3	1.4	23.0	38.0	43.5	5.5	200	234
3	233.173	45.3	12.4	1.8	23.5	36.0	46.0	10.0	104	358
4	245.173	45.5	13.1	1.8	23.5	36.9	46.0	9.1	100	44
5	299.786	39.3	13.9	2.0	23.7	31.5	46.0	14.5	200	148
6	350.000	47.0	15.0	2.2	24.0	40.2	46.0	5.8	200	1
7	744.000	40.8	19.2	3.4	24.0	39.4	46.0	6.6	100	358
8	846.314	37.1	20.0	3.5	23.5	37.1	46.0	8.9	100	212
----- Vertical ------										
9	49.506	43.0	8.4	0.9	22.7	29.6	40.0	10.4	100	1
10	58.233	45.2	6.3	0.9	22.7	29.7	40.0	10.3	100	357
11	245.189	45.7	13.1	1.8	23.5	37.1	46.0	8.9	300	69
12	621.596	41.5	18.8	3.0	24.3	39.0	46.0	7.0	100	1

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- 1GHz-6GHz

Digital EMC

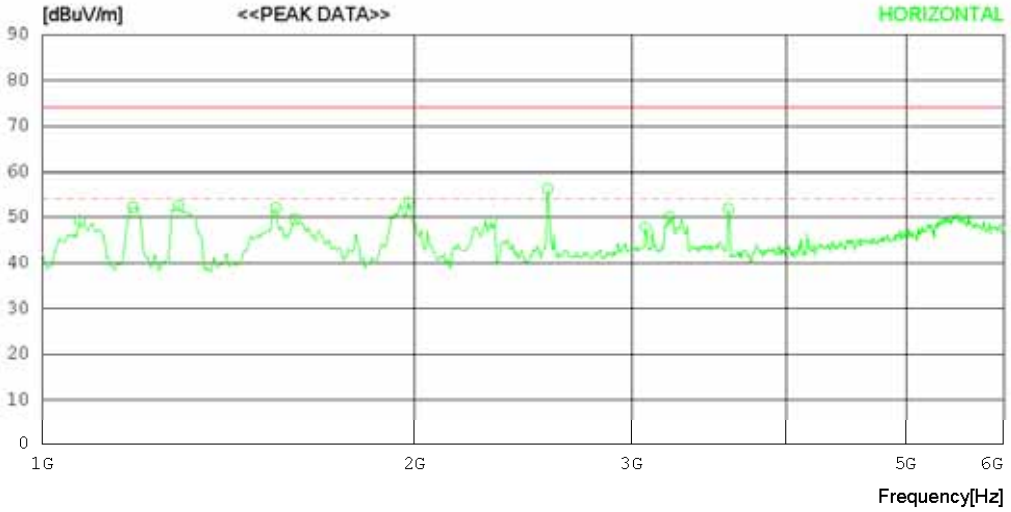
RADIATED EMISSION

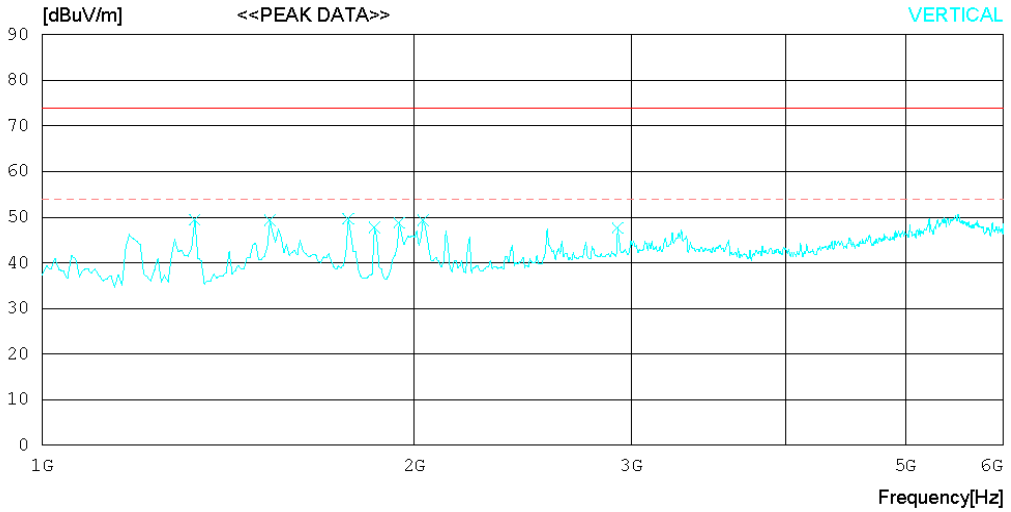
Date : 2010-09-08

Model Name	: 47LD650H-UA	Reference No.	:		
Model No.	:	Power Supply	:	120V	60Hz
Serial No.	:	Temp/Humi	:	24 'C	41 % R.H.
Test Condition	: HDMI	Operator	:		

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 8G(Peak)
FCC Part15 Subpart.B Class B (3m) - 8G(Avg)





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RADIATED EMISSION

Date : 2010-09-08

Model Name	:	47LD650H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	24 'C 41 % R.H.
Test Condition	:	HDMI	Operator	:	

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 8G(Peak)
FCC Part15 Subpart.B Class B (3m) - 8G(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	1072.115	62.2	23.8	5.0	41.9	49.1	74.0	24.9	100	179
2	1184.295	64.7	24.2	5.2	41.9	52.2	74.0	21.8	100	147
3	1288.461	64.4	24.5	5.5	41.9	52.5	74.0	21.5	100	203
4	1544.872	62.8	25.1	6.0	41.9	52.0	74.0	22	100	203
5	1600.961	60.1	25.2	6.2	41.9	49.6	74.0	24.4	100	358
6	1977.564	63.0	25.2	7.0	41.9	53.3	74.0	20.7	100	358
7	2306.093	56.8	26.5	7.5	41.7	49.1	74.0	24.9	100	197
8	2562.507	62.4	27.5	7.9	41.6	56.2	74.0	17.8	100	358
9	3075.335	51.3	28.9	8.9	41.3	47.8	74.0	26.2	100	358
10	3219.568	53.2	29.0	9.1	41.2	50.1	74.0	23.9	100	358
11	3588.164	54.0	29.3	9.5	40.9	51.9	74.0	22.1	100	358
----- Vertical ------										
12	1328.526	61.2	24.6	5.6	41.9	49.5	74.0	24.5	100	310
13	1528.846	60.1	25.1	6.0	41.9	49.3	74.0	24.7	100	1
14	1769.230	59.9	25.2	6.5	41.9	49.7	74.0	24.3	100	22
15	1857.371	57.8	25.2	6.7	41.9	47.8	74.0	26.2	100	1
16	1945.512	58.6	25.2	6.9	41.9	48.8	74.0	25.2	100	1
17	2033.653	58.8	25.3	7.1	41.9	49.3	74.0	24.7	100	204
18	2923.090	51.8	28.6	8.6	41.3	47.7	74.0	26.3	100	324

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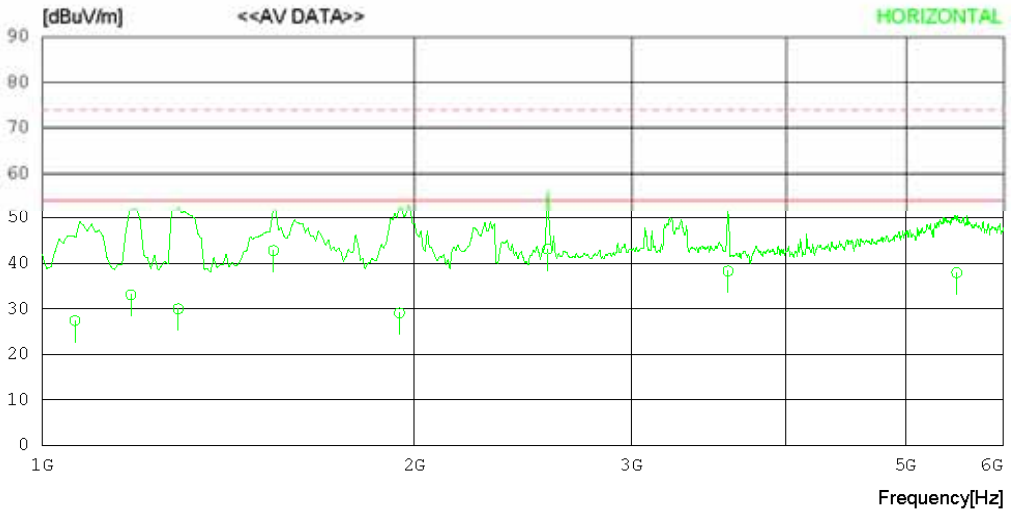
RADIATED EMISSION

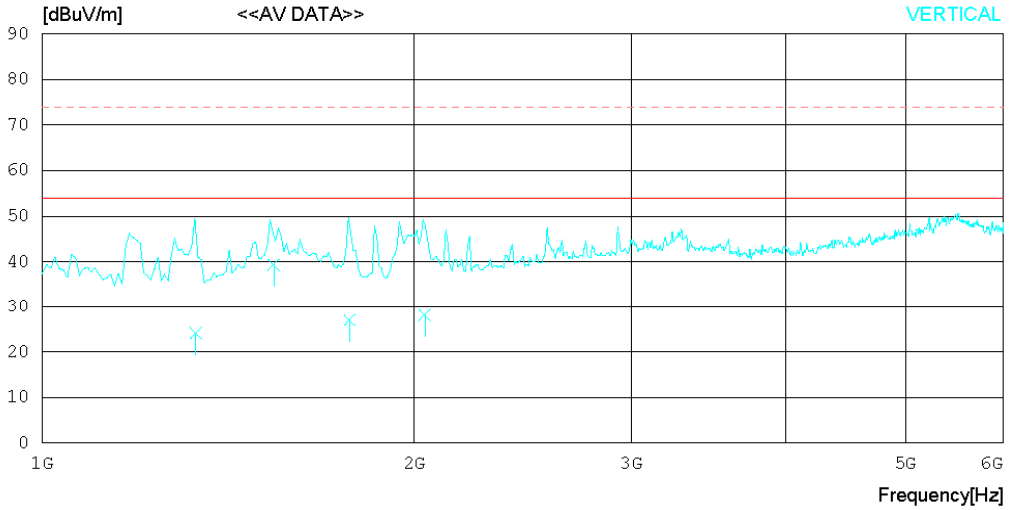
Date : 2010-09-08

Model Name	: 47LD650H-UA	Reference No.	:		
Model No.	:	Power Supply	:	120V	60Hz
Serial No.	:	Temp/Humi	:	24 'C	41 % R.H.
Test Condition	: HDMI	Operator	:		

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 8G(Avg)
FCC Part15 Subpart.B Class B (3m) - 8G(Peak)





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RADIATED EMISSION

Date : 2010-09-08

Model Name	:	47LD650H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	24 'C 41 % R.H.
Test Condition	:	HDMI	Operator	:	

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 8G(Avg)
FCC Part15 Subpart.B Class B (3m) - 8G(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	1062.544	40.5	23.8	5.0	41.9	27.4	54.0	26.6	100	179
2	1179.763	45.6	24.2	5.2	41.9	33.1	54.0	20.9	100	147
3	1288.461	41.9	24.5	5.5	41.9	30.0	54.0	24.0	100	203
4	1538.951	53.6	25.1	6.0	41.9	42.8	54.0	11.2	100	203
5	1945.786	38.9	25.2	6.9	41.9	29.1	54.0	24.9	100	358
6	2565.044	49.3	27.5	7.9	41.6	43.1	54.0	10.9	100	358
7	3590.856	40.4	29.3	9.5	40.9	38.3	54.0	15.7	100	358
8	5499.164	31.1	35.1	11.8	40.1	37.9	54.0	16.1	100	358
----- Vertical ------										
9	1331.442	35.9	24.6	5.6	41.9	24.2	54.0	29.8	100	310
10	1539.079	50.1	25.1	6.0	41.9	39.3	54.0	14.7	100	1
11	1773.125	37.2	25.2	6.5	41.9	27.0	54.0	27.0	100	22
12	2040.544	37.5	25.4	7.1	41.9	28.1	54.0	25.9	100	204

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< USB MODE >

- 30MHz-1GHz

Digital E.M.C

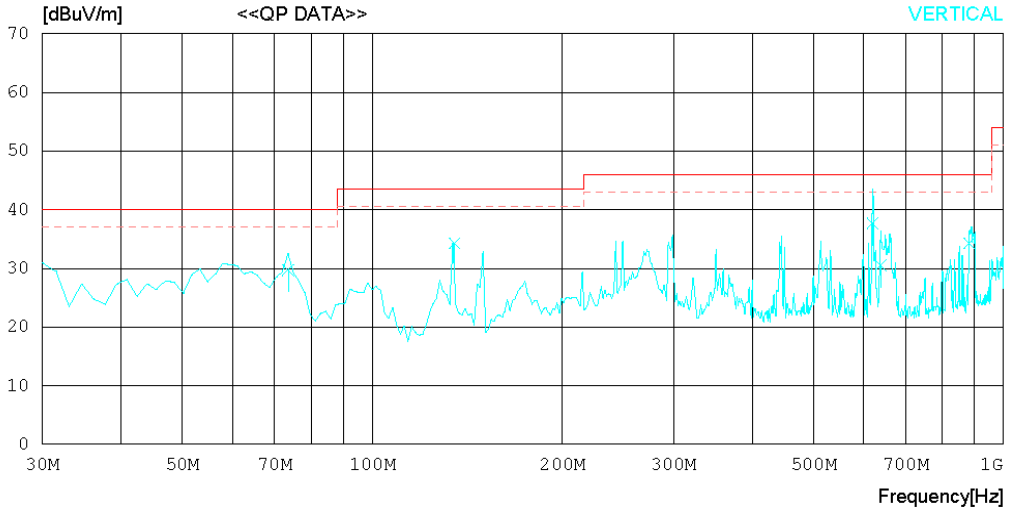
RADIATED EMISSION

Date : 2010-09-08

Model Name	: 47LD650H-UA	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 24 'C 41 % R.H.
Test Condition	: USB	Operator	:

Memo :

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



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RADIATED EMISSION

Date : 2010-09-08

Model Name	:	47LD650H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	24 'C 41 % 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	74.300	40.2	6.7	1.0	22.7	25.2	40.0	14.8	199	313
2	299.800	39.6	13.9	2.0	23.7	31.8	46.0	14.2	199	315
3	350.224	44.1	15.0	2.2	24.0	37.3	46.0	8.7	199	358
4	620.288	36.5	18.8	3.0	24.3	34.0	46.0	12.0	100	45
5	640.967	38.0	18.8	3.0	24.3	35.5	46.0	10.5	100	138
6	958.606	36.0	21.2	3.7	23.0	37.9	46.0	8.1	100	230
----- Vertical ------										
7	73.546	44.8	6.6	1.0	22.7	29.7	40.0	10.3	100	358
8	135.000	44.9	11.0	1.3	22.9	34.3	43.5	9.2	100	358
9	620.704	40.2	18.8	3.0	24.3	37.7	46.0	8.3	100	358
10	639.359	33.0	18.8	3.0	24.3	30.5	46.0	15.5	201	182
11	882.404	33.7	20.3	3.6	23.3	34.3	46.0	11.7	300	1

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- 1GHz-6GHz

Digital EMC

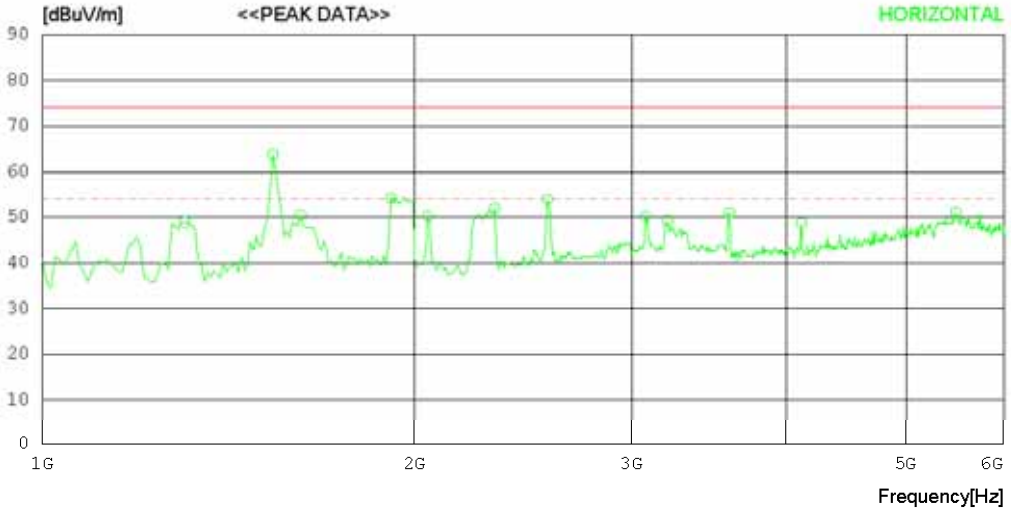
RADIATED EMISSION

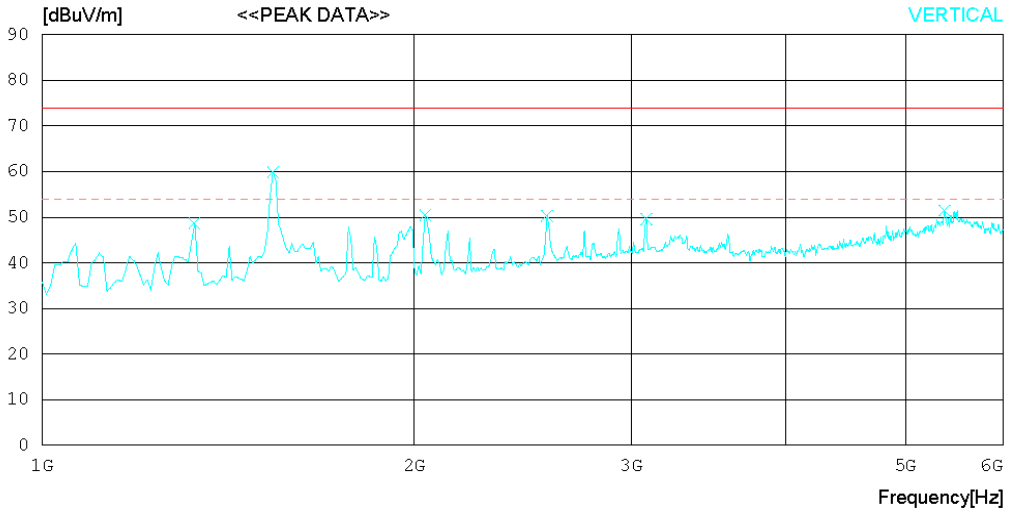
Date : 2010-09-08

Model Name	: 47LD650H-UA	Reference No.	:		
Model No.	:	Power Supply	:	120V	60Hz
Serial No.	:	Temp/Humi	:	24 'C	41 % R.H.
Test Condition	: USB	Operator	:		

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 8G(Peak)
FCC Part15 Subpart.B Class B (3m) - 8G(Avg)





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RADIATED EMISSION

Date : 2010-09-08

Model Name	:	47LD650H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	24 'C 41 % R.H.
Test Condition	:	USB	Operator	:	

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 8G(Peak)
FCC Part15 Subpart.B Class B (3m) - 8G(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	1304.487	60.8	24.5	5.5	41.9	48.9	74.0	25.1	100	204
2	1536.859	74.5	25.1	6.0	41.9	63.7	74.0	10.3	100	211
3	1616.987	61.0	25.2	6.2	41.9	50.5	74.0	23.5	100	139
4	1913.461	64.1	25.2	6.8	41.9	54.2	74.0	19.8	100	358
5	2049.679	59.7	25.4	7.1	41.9	50.3	74.0	23.7	100	229
6	2322.119	59.5	26.6	7.5	41.7	51.9	74.0	22.1	100	213
7	2562.507	60.1	27.5	7.9	41.6	53.9	74.0	20.1	100	358
8	3075.335	53.7	28.9	8.9	41.3	50.2	74.0	23.8	100	167
9	3203.542	52.5	28.9	9.0	41.2	49.2	74.0	24.8	100	358
10	3596.177	53.1	29.3	9.5	40.9	51.0	74.0	23	100	358
11	4109.004	48.9	30.3	10.1	40.6	48.7	74.0	25.3	100	225
12	5479.175	44.4	35.0	11.8	40.1	51.1	74.0	22.9	100	358
----- Vertical ------										
13	1328.526	60.4	24.6	5.6	41.9	48.7	74.0	25.3	100	318
14	1536.859	70.7	25.1	6.0	41.9	59.9	74.0	14.1	100	174
15	2041.666	59.9	25.4	7.1	41.9	50.5	74.0	23.5	100	1
16	2562.507	56.5	27.5	7.9	41.6	50.3	74.0	23.7	100	1
17	3083.348	53.0	28.9	8.9	41.2	49.6	74.0	24.4	100	1
18	5375.010	45.4	34.5	11.7	40.1	51.5	74.0	22.5	100	1

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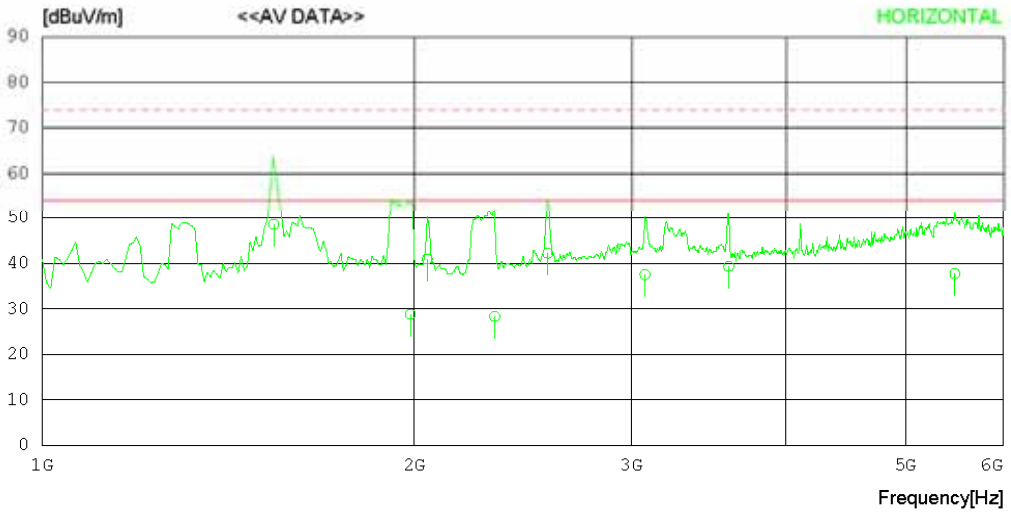
RADIATED EMISSION

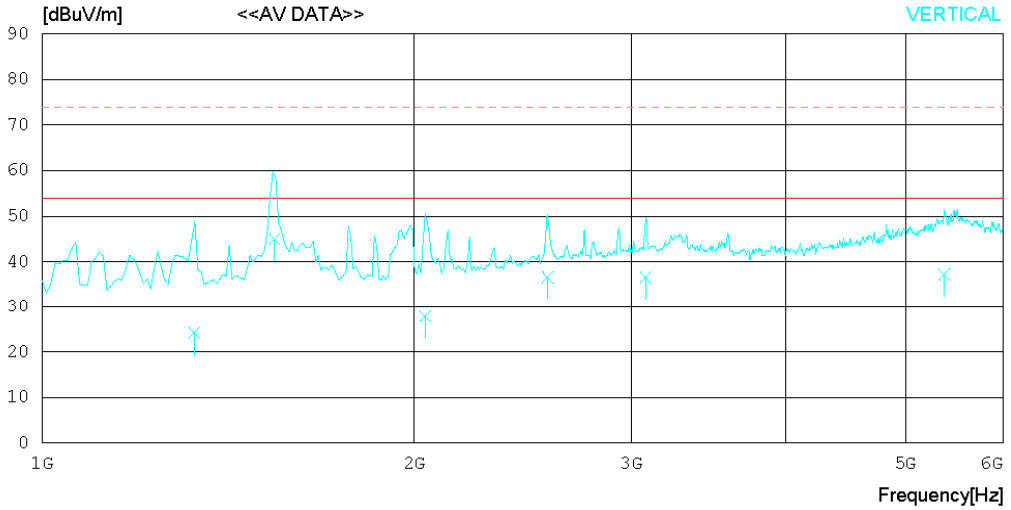
Date : 2010-09-08

Model Name	: 47LD650H-UA	Reference No.	:		
Model No.	:	Power Supply	:	120V	60Hz
Serial No.	:	Temp/Humi	:	24 'C	41 % R.H.
Test Condition	: USB	Operator	:		

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 8G(Avg)
FCC Part15 Subpart.B Class B (3m) - 8G(Peak)





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RADIATED EMISSION

Date : 2010-09-08

Model Name	:	47LD650H-UA	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	24 'C 41 % R.H.
Test Condition	:	USB	Operator	:	

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m) - 8G(Avg)
FCC Part15 Subpart.B Class B (3m) - 8G(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	1539.044	59.3	25.1	6.0	41.9	48.5	54.0	5.5	100	211
2	1985.935	38.5	25.2	7.0	41.9	28.8	54.0	25.2	100	358
3	2049.679	50.3	25.4	7.1	41.9	40.9	54.0	13.1	100	229
4	2323.946	35.9	26.6	7.5	41.7	28.3	54.0	25.7	100	213
5	2565.500	48.4	27.5	7.9	41.6	42.2	54.0	11.8	100	358
6	3075.335	41.0	28.9	8.9	41.3	37.5	54.0	16.5	100	167
7	3596.177	41.4	29.3	9.5	40.9	39.3	54.0	14.7	100	358
8	5479.175	31.0	35.0	11.8	40.1	37.7	54.0	16.3	100	358
----- Vertical ------										
9	1328.526	35.9	24.6	5.6	41.9	24.2	54.0	29.8	100	318
10	1541.256	55.8	25.1	6.0	41.9	45.0	54.0	9.0	100	174
11	2041.666	37.3	25.4	7.1	41.9	27.9	54.0	26.1	100	1
12	2566.000	42.8	27.5	7.9	41.6	36.6	54.0	17.4	100	171
13	3079.826	40.0	28.9	8.9	41.3	36.5	54.0	17.5	100	1
14	5375.010	31.1	34.5	11.7	40.1	37.2	54.0	16.8	100	1

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