EMC TEST REPORT

Test item	: LED TV Monitor
Model No.	: 42LP620H-UH
Order No.	: DEMC1302-00865
Date of receipt	: 2013-02-28
Test duration	: 2013-03-07 ~ 2013-03-08
Use of report	: FCC CoC Marking
Date of Issue	: 2013-03-14

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 : (19 ~ 21) °C,
Humidity : (38 ~ 40) % 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:

Engineer
HyungJun Kim

Reviewed by:

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”.

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3. General Information of EUT

Model No.	42LP620H-UH
EUT Type	LED TV Monitor
Serial No	NONE
FCC ID	BEJ42LP620HUH
Type of Sample Tested	Pre-Production
High Frequency	800 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

RCB (PC), HDMI (PC) supported mode

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
720 x 400	31.46	70.08
640 x 480	31.46	59.94
800 x 600	37.87	60.31
1024 x 768	48.36	60.00
1360 x 768	47.71	60.01

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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 (℃)	Humidity (% R.H.)
Conducted Disturbance	03-07	19	38
Radiated Disturbance	03-08 03-08	20 21	39 40

4.3 Test result Summary

(1) Conducted Emission (HDMI MODE)

Frequency [MHz]	Phase	Result [dBμV]	Detector	Limit [dBμV]	Margin [dB]
23.983	**N**	**33.2**	Quasi-Peak	**50.0**	**16.8**

(2) Radiated Emission (DSUB MODE)

Frequency [MHz]	Pol.	Result [dB(μV/m)]	Detector	Limit [dB(μV/m)]	Margin [dB]
193.221	**H**	**40.3**	Quasi-Peak	**43.5**	**3.2**

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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 : “H” characters scroll on the LCD TV screen.
- HDMI MODE : 1920x1080 Resolution (Worst case) “H” characters scroll on the LCD TV screen.
- 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	DC8CMF	G3RZKBX	DELL INC.	POWER HDMI USB USB USB DSUB	1.8 1.8 1.8 1.8 1.5 1.6	Not use Not use Not use Not use Not use Not use	Non-shield Shield Shield Shield Shield Shield	Plastic	DOC
KEYBOARD	KB-065	CN111363232	HP	USB	1.8	Not use	Shield	Plastic	DOC
MOUSE	1094	X817158-002	MICROSOFT CORPORATION	USB	1.6	Not use	Shield	Plastic	DOC
CD/DVD PLAYER	DVP-NS92V	2000407	SONY EMCS	POWER COMPONENT	1.8 1.6	Not use Not use	Non-shield Non-shield	Plastic	VER
USB MEMORY	Cruzer 4GB	N/A	SANDISK	USB	-	-	-	-	DOC
PRINTER	Aculaser M1200	LWTZ181070	EPSON	USB AC POWER	1.8 1.5	Not use Not use	Shield Non-shield	Plastic	-
HEADSET	COV903	N/A	COSY	HEADPHONE	2.5	Not use	Non-shield	Plastic	DOC
REMOTE CONTROL	AKB73755414	N/A	HANSUNG ELECTRONIC	-	-	-	-	-	-

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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

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Test Result

< DSUB MODE >

Digital EMC

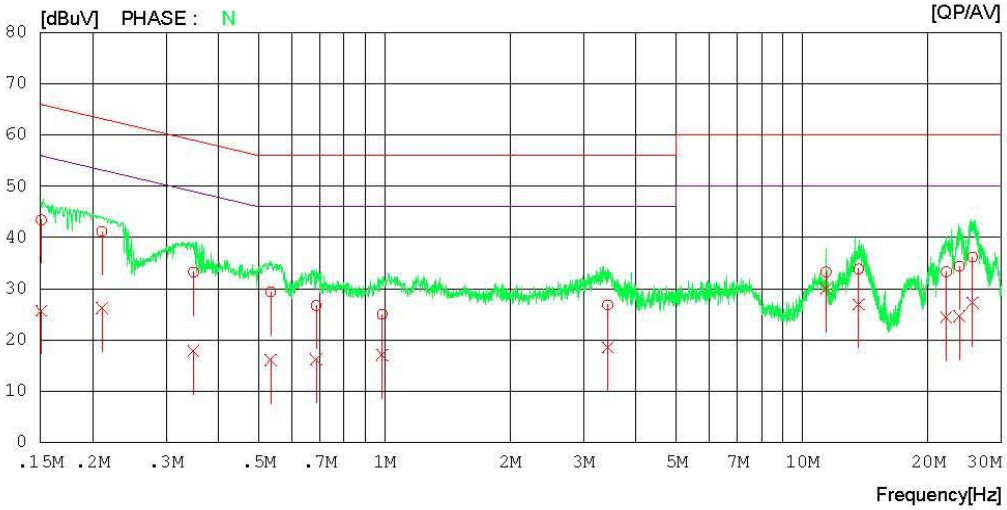
Results of Conducted Emission

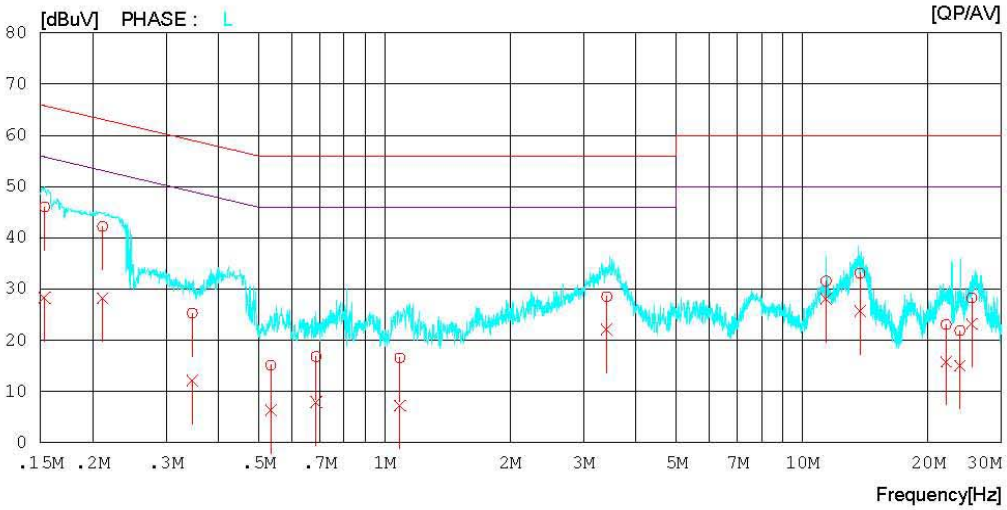
Digital EMC
Date : 2013-03-07

Model No.	:	42LP620H-UH	Referrence No.	:	
Type	:		Power Supply	: 120 V	60 Hz
Serial No.	:		Temp/Humi.	: 19 'C	38 % R.H.
Test Condition	:	DSUB	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV





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Results of Conducted Emission

Digital EMC
Date : 2013-03-07

Model No.	:	42LP620H-UH	Referrence No.	:	
Type	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi.	:	19 'C 38 % R.H.
Test Condition	:	DSUB	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ	READING QP	READING AV	C.FACTOR	RESULT QP	RESULT AV	LIMIT QP	LIMIT AV	MARGIN QP	MARGIN AV	PHASE
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	
1	0.15085	41.6	23.9	1.8	43.4	25.7	66.0	56.0	22.6	30.3	N
2	0.21074	39.9	25.0	1.2	41.1	26.2	63.2	53.2	22.1	27.0	N
3	0.34899	32.3	17.0	0.9	33.2	17.9	59.0	49.0	25.8	31.1	N
4	0.53400	28.7	15.4	0.7	29.4	16.1	56.0	46.0	26.6	29.9	N
5	0.68646	26.2	15.7	0.5	26.7	16.2	56.0	46.0	29.3	29.8	N
6	0.98750	24.6	16.7	0.4	25.0	17.1	56.0	46.0	31.0	28.9	N
7	3.42350	26.6	18.3	0.2	26.8	18.5	56.0	46.0	29.2	27.5	N
8	11.40650	32.9	29.6	0.4	33.3	30.0	60.0	50.0	26.7	20.0	N
9	13.64950	33.4	26.6	0.4	33.8	27.0	60.0	50.0	26.2	23.0	N
10	22.15050	32.9	24.0	0.4	33.3	24.4	60.0	50.0	26.7	25.6	N
11	23.77900	33.9	24.1	0.5	34.4	24.6	60.0	50.0	25.6	25.4	N
12	25.56500	35.7	26.8	0.5	36.2	27.3	60.0	50.0	23.8	22.7	N
13	0.15365	44.3	26.5	1.8	46.1	28.3	65.8	55.8	19.7	27.5	L
14	0.21133	41.0	27.0	1.2	42.2	28.2	63.2	53.2	21.0	25.0	L
15	0.34684	24.4	11.2	0.9	25.3	12.1	59.0	49.0	33.7	36.9	L
16	0.53459	14.4	5.7	0.7	15.1	6.4	56.0	46.0	40.9	39.6	L
17	0.68600	16.4	7.5	0.5	16.9	8.0	56.0	46.0	39.1	38.0	L
18	1.08800	16.2	6.9	0.4	16.6	7.3	56.0	46.0	39.4	38.7	L
19	3.40600	28.3	21.9	0.2	28.5	22.1	56.0	46.0	27.5	23.9	L
20	11.40450	31.2	27.7	0.4	31.6	28.1	60.0	50.0	28.4	21.9	L
21	13.76250	32.7	25.3	0.4	33.1	25.7	60.0	50.0	26.9	24.3	L
22	22.12250	22.7	15.4	0.4	23.1	15.8	60.0	50.0	36.9	34.2	L
23	23.86150	21.4	14.6	0.5	21.9	15.1	60.0	50.0	38.1	34.9	L
24	25.48250	27.8	22.8	0.5	28.3	23.3	60.0	50.0	31.7	26.7	L

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< HDMI MODE >

Digital EMC

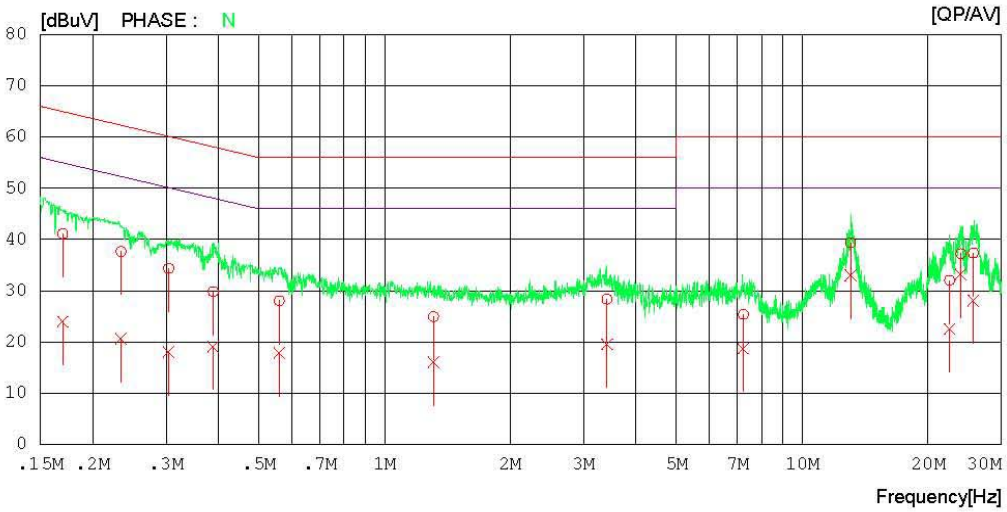
Results of Conducted Emission

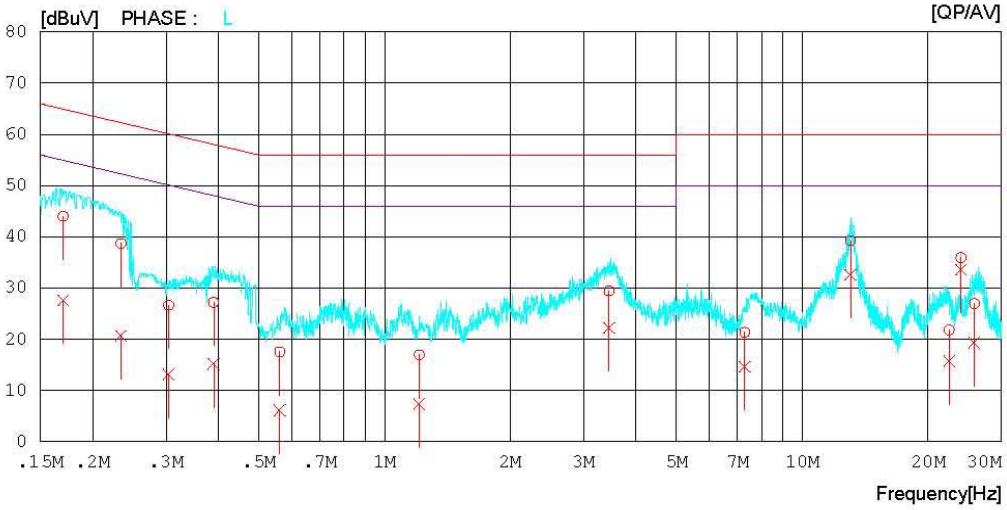
Digital EMC
Date : 2013-03-07

Model No.	:	42LP620H-UH	Referrence No.	:	
Type	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi.	:	19 'C 38 % R.H.
Test Condition	:	HDMI	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV





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Results of Conducted Emission

Digital EMC
Date : 2013-03-07

Model No.	:	42LP620H-UH	Referrence No.	:	
Type	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi.	:	19 'C 38 % R.H.
Test Condition	:	HDMI	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ	READING QP	READING AV	C.FACTOR	RESULT QP	RESULT AV	LIMIT QP	LIMIT AV	MARGIN QP	MARGIN AV	PHASE
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	
1	0.16976	39.5	22.4	1.6	41.1	24.0	65.0	55.0	23.9	31.0	N
2	0.23403	36.6	19.5	1.1	37.7	20.6	62.3	52.3	24.6	31.7	N
3	0.30436	33.5	17.1	0.9	34.4	18.0	60.1	50.1	25.7	32.1	N
4	0.38918	29.0	18.3	0.8	29.8	19.1	58.1	48.1	28.3	29.0	N
5	0.55994	27.5	17.3	0.6	28.1	17.9	56.0	46.0	27.9	28.1	N
6	1.31100	24.5	15.6	0.4	24.9	16.0	56.0	46.0	31.1	30.0	N
7	3.40800	28.1	19.4	0.2	28.3	19.6	56.0	46.0	27.7	26.4	N
8	7.23000	25.1	18.4	0.3	25.4	18.7	60.0	50.0	34.6	31.3	N
9	13.06150	39.0	32.6	0.4	39.4	33.0	60.0	50.0	20.6	17.0	N
10	22.52950	31.6	22.1	0.4	32.0	22.5	60.0	50.0	28.0	27.5	N
11	23.98300	36.8	32.7	0.5	37.3	33.2	60.0	50.0	22.7	16.8	N
12	25.69250	36.8	27.6	0.5	37.3	28.1	60.0	50.0	22.7	21.9	N
13	0.17004	42.4	26.0	1.6	44.0	27.6	65.0	55.0	21.0	27.4	L
14	0.23390	37.6	19.5	1.1	38.7	20.6	62.3	52.3	23.6	31.7	L
15	0.30436	25.8	12.3	0.9	26.7	13.2	60.1	50.1	33.4	36.9	L
16	0.38999	26.4	14.4	0.8	27.2	15.2	58.1	48.1	30.9	32.9	L
17	0.56158	17.0	5.6	0.6	17.6	6.2	56.0	46.0	38.4	39.8	L
18	1.21200	16.6	7.0	0.4	17.0	7.4	56.0	46.0	39.0	38.6	L
19	3.44650	29.2	22.0	0.2	29.4	22.2	56.0	46.0	26.6	23.8	L
20	7.28200	21.1	14.4	0.3	21.4	14.7	60.0	50.0	38.6	35.3	L
21	13.06450	38.8	32.2	0.4	39.2	32.6	60.0	50.0	20.8	17.4	L
22	22.49150	21.4	15.3	0.4	21.8	15.7	60.0	50.0	38.2	34.3	L
23	23.98650	35.5	33.1	0.5	36.0	33.6	60.0	50.0	24.0	16.4	L
24	25.84250	26.5	18.8	0.5	27.0	19.3	60.0	50.0	33.0	30.7	L

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< USB MODE >

Digital EMC

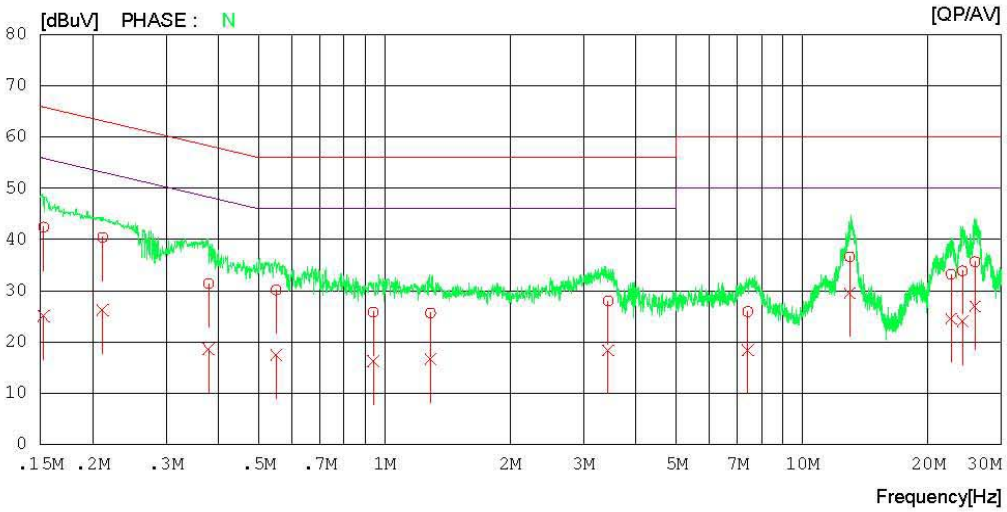
Results of Conducted Emission

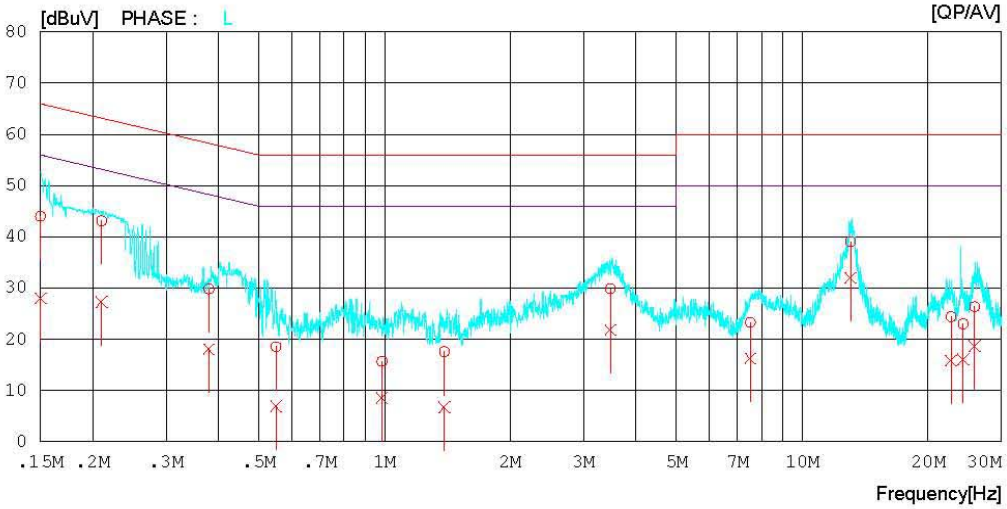
Digital EMC
Date : 2013-03-07

Model No.	:	42LP620H-UH	Referrence No.	:	
Type	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi.	:	19 'C 38 % R.H.
Test Condition	:	USB	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV





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Results of Conducted Emission

Digital EMC
Date : 2013-03-07

Model No.	:	42LP620H-UH	Referrence No.	:	
Type	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi.	:	19 'C 38 % R.H.
Test Condition	:	USB	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ	READING QP	READING AV	C.FACTOR	RESULT QP	RESULT AV	LIMIT QP	LIMIT AV	MARGIN QP	MARGIN AV	PHASE
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	
1	0.15283	40.6	23.2	1.8	42.4	25.0	65.8	55.8	23.4	30.8	N
2	0.21148	39.2	25.0	1.2	40.4	26.2	63.1	53.1	22.7	26.9	N
3	0.37928	30.6	17.8	0.8	31.4	18.6	58.3	48.3	26.9	29.7	N
4	0.55011	29.5	16.9	0.6	30.1	17.5	56.0	46.0	25.9	28.5	N
5	0.94000	25.4	15.8	0.4	25.8	16.2	56.0	46.0	30.2	29.8	N
6	1.28850	25.2	16.2	0.4	25.6	16.6	56.0	46.0	30.4	29.4	N
7	3.43050	27.8	18.1	0.2	28.0	18.3	56.0	46.0	28.0	27.7	N
8	7.41100	25.6	18.1	0.3	25.9	18.4	60.0	50.0	34.1	31.6	N
9	12.99850	36.2	29.1	0.4	36.6	29.5	60.0	50.0	23.4	20.5	N
10	22.73000	32.7	24.0	0.5	33.2	24.5	60.0	50.0	26.8	25.5	N
11	24.20500	33.4	23.5	0.5	33.9	24.0	60.0	50.0	26.1	26.0	N
12	25.92850	35.2	26.4	0.5	35.7	26.9	60.0	50.0	24.3	23.1	N
13	0.15006	42.2	26.2	1.8	44.0	28.0	66.0	56.0	22.0	28.0	L
14	0.21038	41.9	26.1	1.2	43.1	27.3	63.2	53.2	20.1	25.9	L
15	0.38004	29.0	17.3	0.8	29.8	18.1	58.3	48.3	28.5	30.2	L
16	0.55005	18.0	6.3	0.6	18.6	6.9	56.0	46.0	37.4	39.1	L
17	0.98700	15.3	8.2	0.4	15.7	8.6	56.0	46.0	40.3	37.4	L
18	1.39100	17.2	6.4	0.4	17.6	6.8	56.0	46.0	38.4	39.2	L
19	3.47550	29.7	21.6	0.2	29.9	21.8	56.0	46.0	26.1	24.2	L
20	7.51850	23.0	16.0	0.3	23.3	16.3	60.0	50.0	36.7	33.7	L
21	13.05850	38.6	31.6	0.4	39.0	32.0	60.0	50.0	21.0	18.0	L
22	22.72150	23.9	15.4	0.5	24.4	15.9	60.0	50.0	35.6	34.1	L
23	24.29650	22.5	15.6	0.5	23.0	16.1	60.0	50.0	37.0	33.9	L
24	25.87850	25.9	18.2	0.5	26.4	18.7	60.0	50.0	33.6	31.3	L

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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.

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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	5th harmonic of the highest frequency or 40 GHz, whichever is lower

(1) Limit for Radiated Emission below 1 000MHz

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

Note 1 The lower limit shall apply at the transition frequency.
Note 2 Additional provisions may be required for cases where interference occurs.
Note 3 According to 15.109(g), as an alternative to the radiated emission limit shown above, digital devices may be shown to comply with the standards(CISPR), Pub. 22 shown as below.

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

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

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

Note) 1. Emission Level = Reading Value + Correction Factor.
2. Correction Factor = Cable loss - Amp gain + Antenna Factor
3. Margin = Limit - Emission level

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Test Result

< DSUB MODE _ 30 MHz ~ 1 GHz >

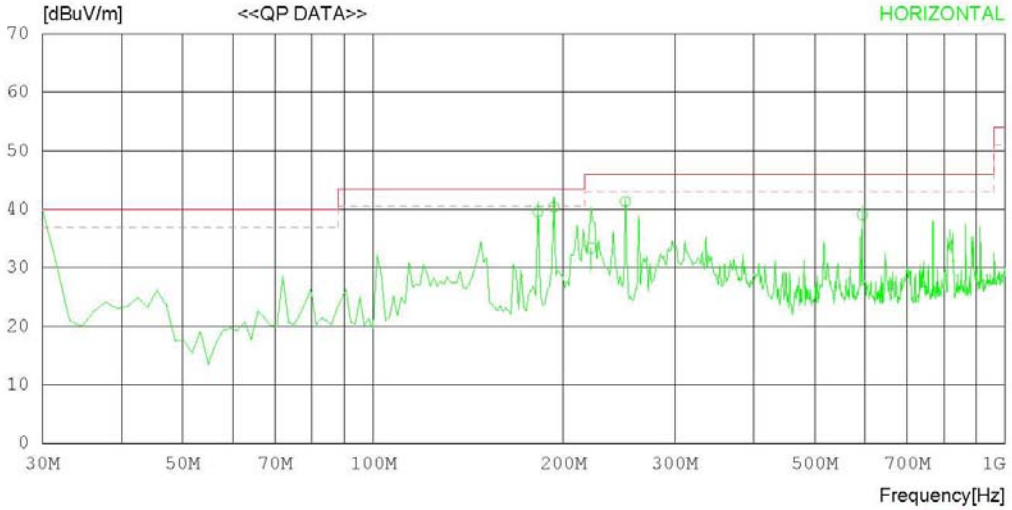
RADIATED EMISSION

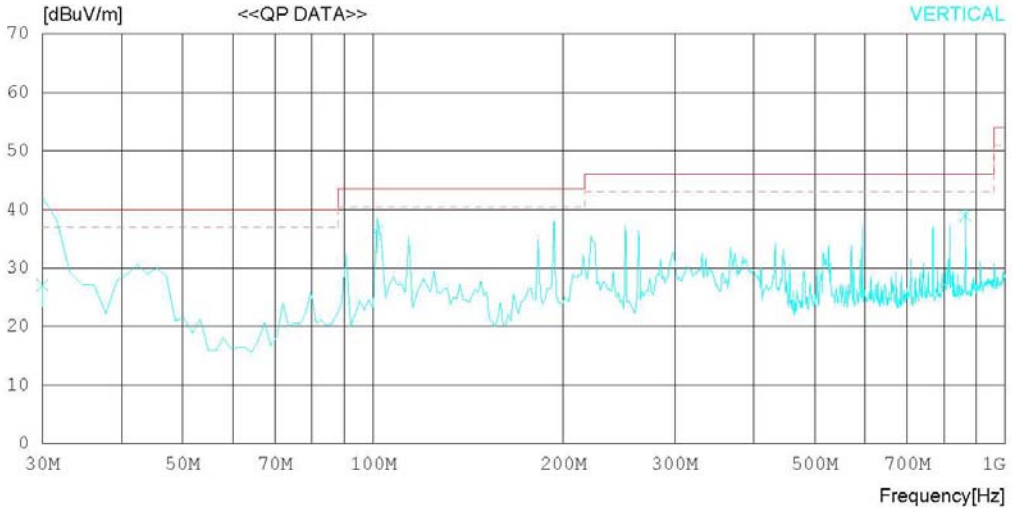
Date : 2013-03-08

Model Name	:	42LP620H-UH	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	21 'C 40 % 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 : 2013-03-08

Model Name	:	42LP620H-UH	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	21 'C 40 % 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	182.340	51.7	9.7	2.2	24.0	39.6	43.5	3.9	136	97
2	193.221	52.4	9.7	2.2	24.0	40.3	43.5	3.2	181	83
3	221.202	43.9	11.0	2.4	23.9	33.4	46.0	12.6	180	224
4	250.737	49.8	12.7	2.6	23.8	41.3	46.0	4.7	100	358
5	594.278	39.8	18.6	4.1	23.4	39.1	46.0	6.9	137	227
----- Vertical ------										
6	30.000	32.2	17.9	0.8	23.8	27.1	40.0	12.9	141	64
7	101.507	48.3	10.7	1.4	24.1	36.3	43.5	7.2	100	215
8	864.762	36.7	20.5	4.9	23.2	38.9	46.0	7.1	102	70

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

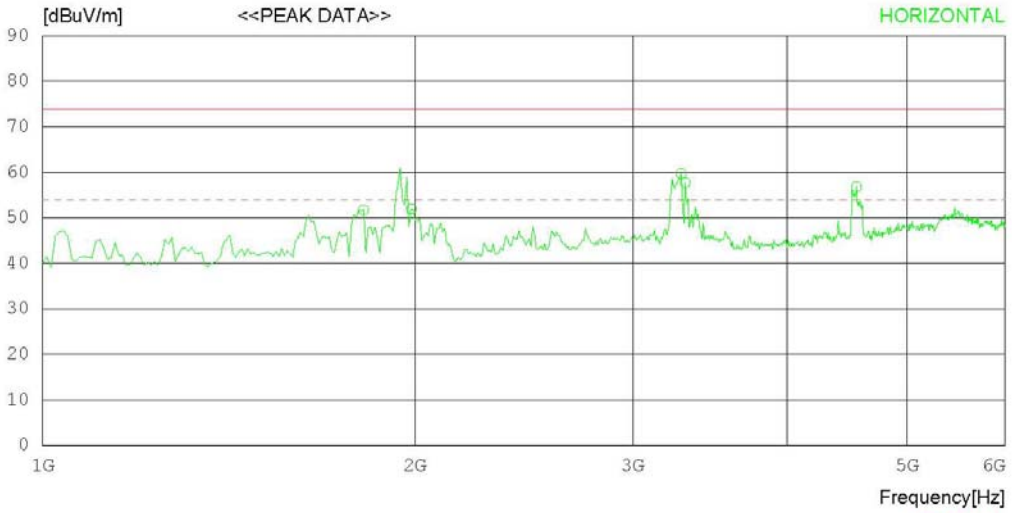
RADIATED EMISSION

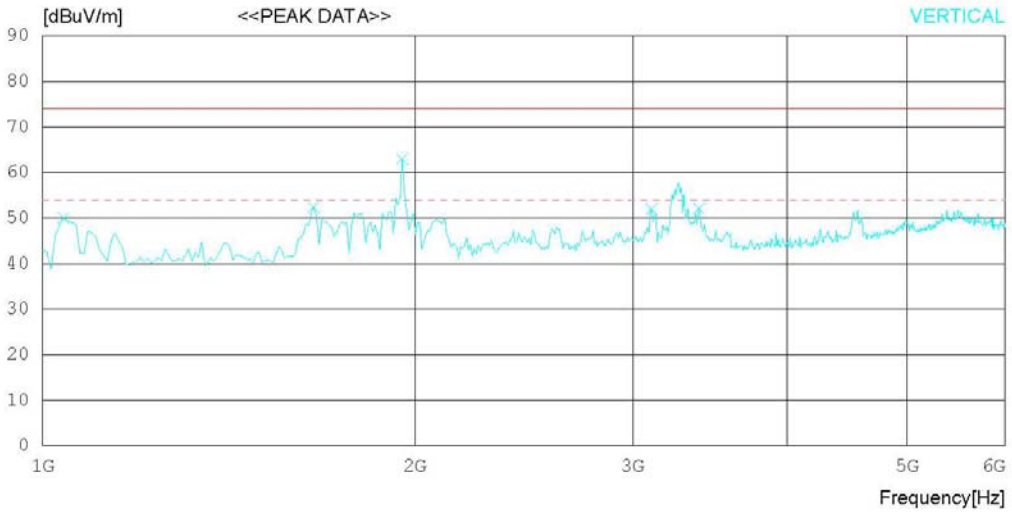
Date : 2013-03-08

Model Name	:	42LP620H-UH	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 39 % R.H
Test Condition	:	DSUB	Operator	:	

Memo :

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





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RADIATED EMISSION

Date : 2013-03-08

Model Name	:	42LP620H-UH	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 39 % R.H
Test Condition	:	DSUB	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	1817.307	60.3	24.6	4.5	37.7	51.7	74.0	22.3	100	358
2	1985.577	60.2	24.6	4.7	37.6	51.9	74.0	22.1	100	358
3	3283.672	62.0	28.9	6.0	37.2	59.7	74.0	14.3	100	208
4	3307.711	60.0	28.9	6.0	37.2	57.7	74.0	16.3	100	208
5	4549.703	55.1	31.1	7.2	36.6	56.8	74.0	17.2	100	358
----- Vertical ------										
6	1040.064	61.4	23.9	3.4	38.7	50.0	74.0	24	100	181
7	1657.051	61.3	24.6	4.3	37.8	52.4	74.0	21.6	100	164
8	1953.525	71.2	24.6	4.7	37.6	62.9	74.0	11.1	100	236
9	3107.387	54.5	29.0	5.8	37.3	52.0	74.0	22	100	1
10	3395.853	54.2	28.9	6.1	37.1	52.1	74.0	21.9	100	1

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

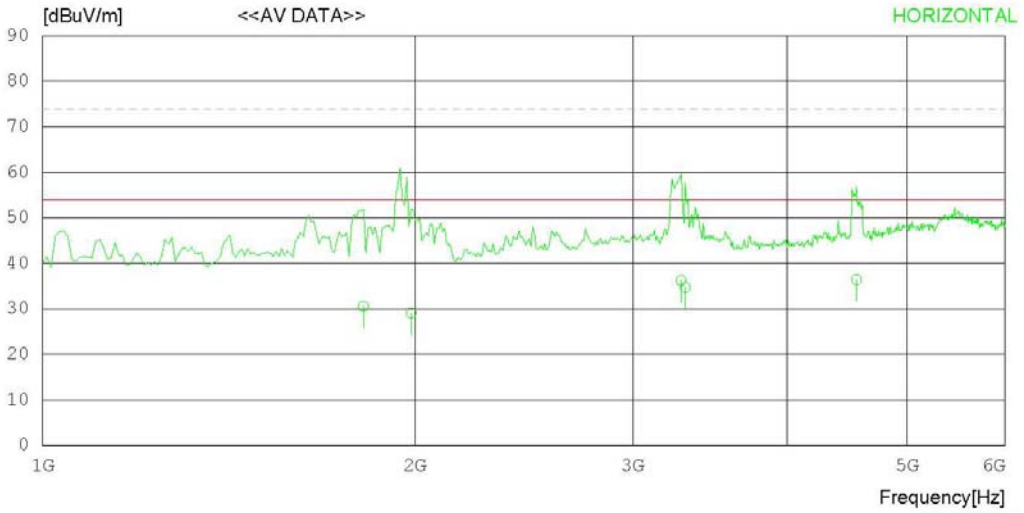
RADIATED EMISSION

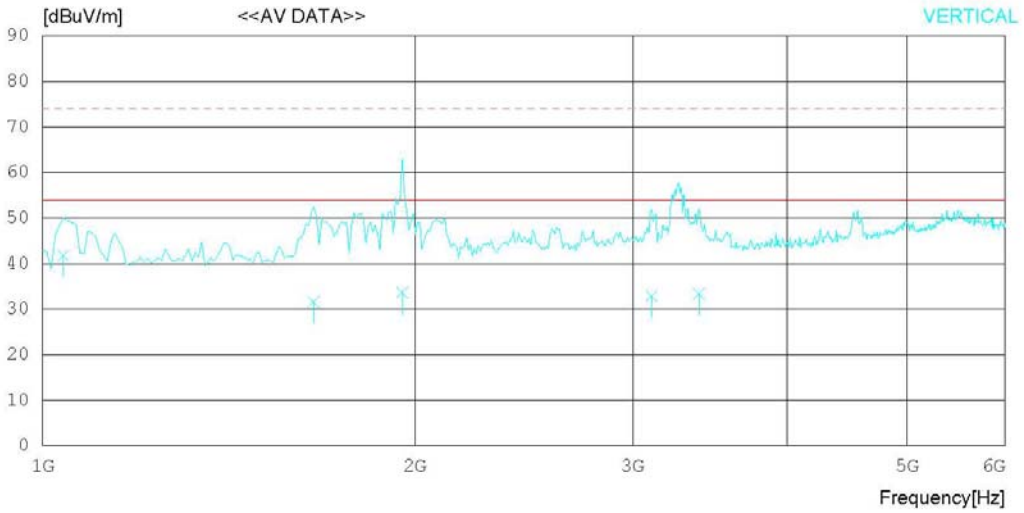
Date : 2013-03-08

Model Name	:	42LP620H-UH	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 39 % R.H
Test Condition	:	DSUB	Operator	:	

Memo :

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





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RADIATED EMISSION

Date : 2013-03-08

Model Name	:	42LP620H-UH	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 39 % R.H
Test Condition	:	DSUB	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	1817.307	39.2	24.6	4.5	37.7	30.6	54.0	23.4	100	358
2	1985.577	37.4	24.6	4.7	37.6	29.1	54.0	24.9	100	358
3	3283.672	38.5	28.9	6.0	37.2	36.2	54.0	17.8	100	208
4	3307.711	37.1	28.9	6.0	37.2	34.8	54.0	19.2	100	208
5	4549.703	34.7	31.1	7.2	36.6	36.4	54.0	17.6	100	358
----- Vertical ------										
6	1040.064	53.1	23.9	3.4	38.7	41.7	54.0	12.3	100	181
7	1657.051	40.5	24.6	4.3	37.8	31.6	54.0	22.4	100	164
8	1953.525	41.9	24.6	4.7	37.6	33.6	54.0	20.4	100	236
9	3107.387	35.4	29.0	5.8	37.3	32.9	54.0	21.1	100	1
10	3395.853	35.5	28.9	6.1	37.1	33.4	54.0	20.6	100	1

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< HDMI MODE _ 30 MHz ~ 1 GHz >

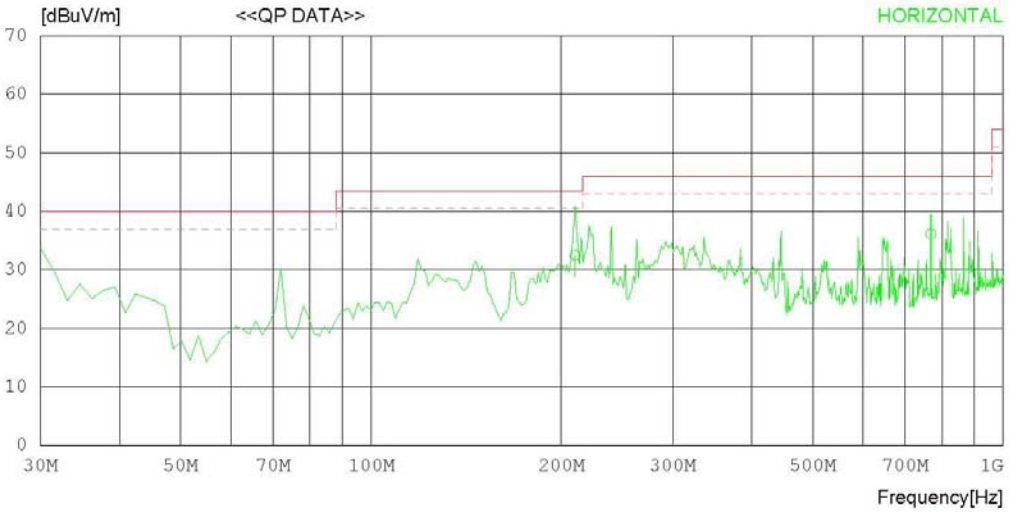
RADIATED EMISSION

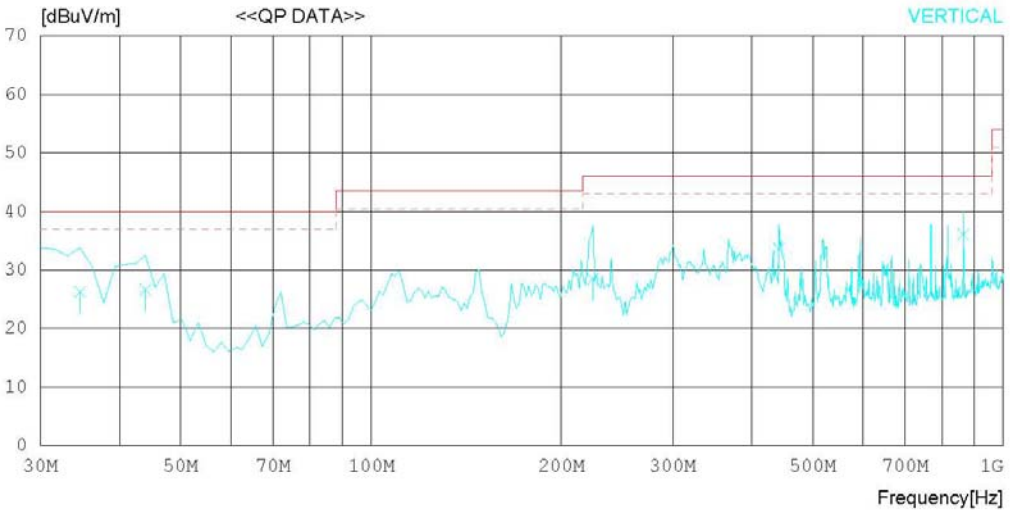
Date : 2013-03-08

Model Name	:	42LP620H-UH	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	21 'C 40 % 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 : 2013-03-08

Model Name	:	42LP620H-UH	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	21 'C 40 % 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	210.321	43.7	10.3	2.4	23.9	32.5	43.5	11.0	100	1
2	768.382	35.5	19.5	4.7	23.6	36.1	46.0	9.9	167	0
----- Vertical ------										
3	34.663	33.7	15.4	1.1	23.9	26.3	40.0	13.7	100	138
4	43.990	36.1	13.7	1.1	24.2	26.7	40.0	13.3	100	232
5	224.311	38.8	11.2	2.4	23.9	28.5	46.0	17.5	272	1
6	441.938	36.9	16.6	3.5	23.3	33.7	46.0	12.3	100	358
7	864.762	33.9	20.5	4.9	23.2	36.1	46.0	9.9	100	0

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

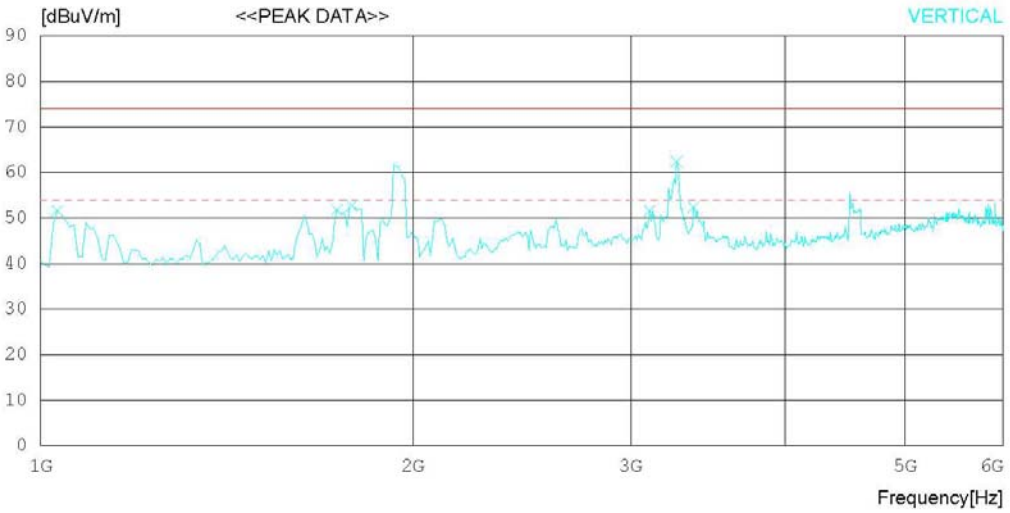
RADIATED EMISSION

Date : 2013-03-08

Model Name	:	42LP620H-UH	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 39 % 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)



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RADIATED EMISSION

Date : 2013-03-08

Model Name	:	42LP620H-UH	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 39 % 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	1937.500	71.4	24.6	4.6	37.6	63.0	74.0	11	100	358
2	4509.639	57.7	30.9	7.1	36.6	59.1	74.0	14.9	100	358
3	5807.696	48.6	33.1	8.2	36.3	53.6	74.0	20.4	100	358
----- Vertical ------										
4	1032.051	63.0	23.9	3.4	38.7	51.6	74.0	22.4	100	1
5	1737.179	60.6	24.6	4.4	37.8	51.8	74.0	22.2	100	212
6	1785.256	61.4	24.6	4.4	37.7	52.7	74.0	21.3	100	219
7	3107.387	54.1	29.0	5.8	37.3	51.6	74.0	22.4	100	1
8	3267.646	64.7	28.9	6.0	37.2	62.4	74.0	11.6	100	1
9	3371.814	54.6	28.9	6.1	37.2	52.4	74.0	21.6	100	223

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

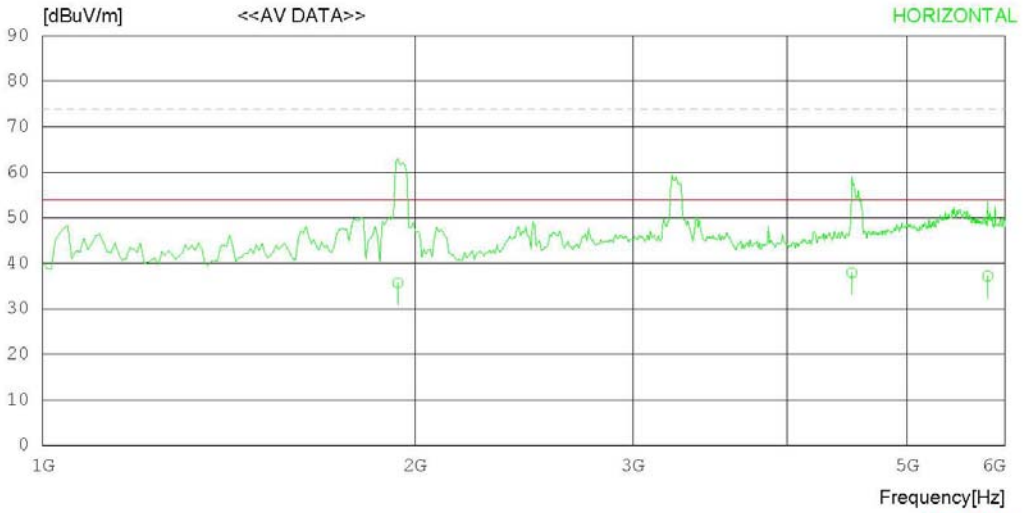
RADIATED EMISSION

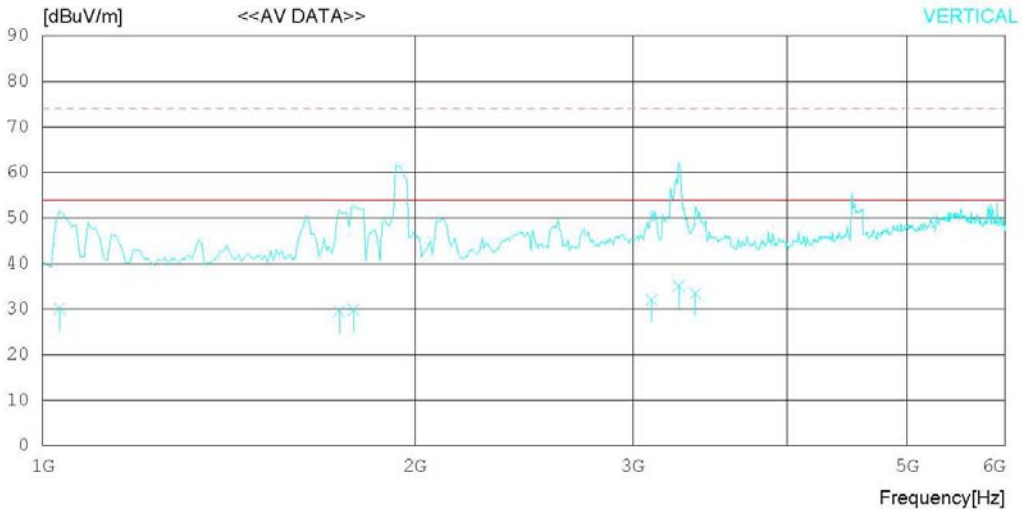
Date : 2013-03-08

Model Name	:	42LP620H-UH	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 39 % 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)





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RADIATED EMISSION

Date : 2013-03-08

Model Name	:	42LP620H-UH	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 39 % 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	1937.500	44.1	24.6	4.6	37.6	35.7	54.0	18.3	100	358
2	4509.639	36.5	30.9	7.1	36.6	37.9	54.0	16.1	100	358
3	5807.696	32.2	33.1	8.2	36.3	37.2	54.0	16.8	100	358
----- Vertical ------										
4	1032.051	41.5	23.9	3.4	38.7	30.1	54.0	23.9	100	1
5	1737.179	38.3	24.6	4.4	37.8	29.5	54.0	24.5	100	212
6	1785.256	38.6	24.6	4.4	37.7	29.9	54.0	24.1	100	219
7	3107.387	34.6	29.0	5.8	37.3	32.1	54.0	21.9	100	1
8	3267.646	37.4	28.9	6.0	37.2	35.1	54.0	18.9	100	1
9	3371.814	35.6	28.9	6.1	37.2	33.4	54.0	20.6	100	223

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< USB MODE _ 30 MHz ~ 1 GHz >

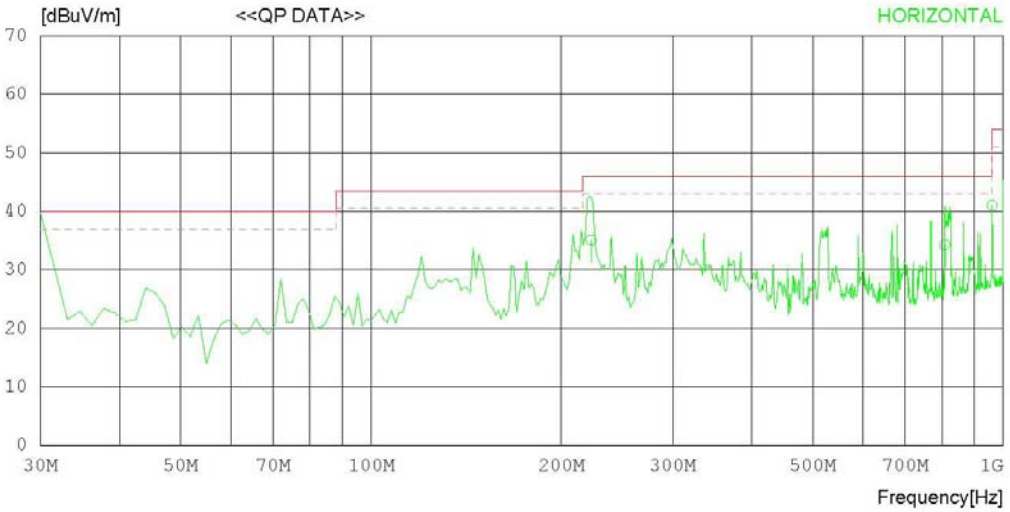
RADIATED EMISSION

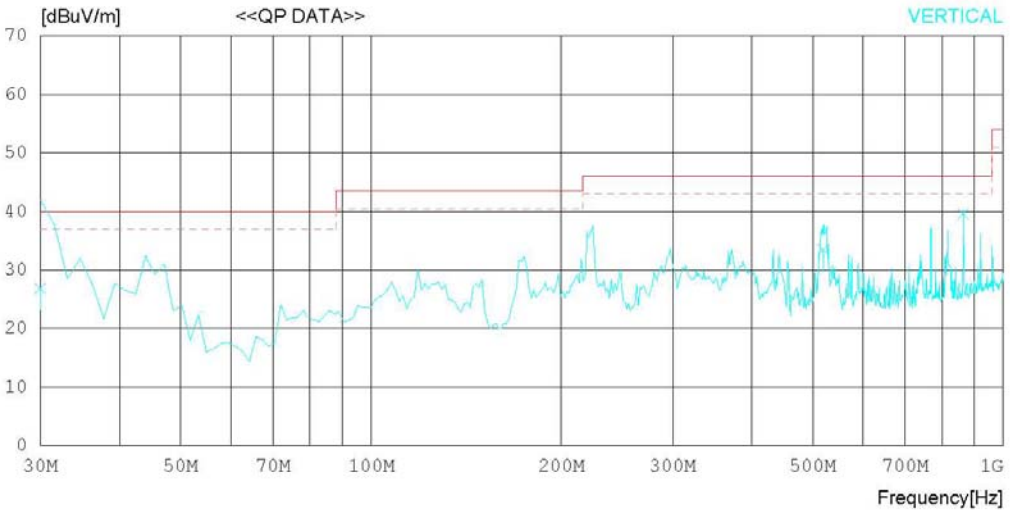
Date : 2013-03-08

Model Name	:	42LP620H-UH	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	21 'C 40 % 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 : 2013-03-08

Model Name	:	42LP620H-UH	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	21 'C 40 % 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	222.757	45.5	11.1	2.4	23.9	35.1	46.0	10.9	100	358
2	808.799	32.8	20.1	4.8	23.4	34.3	46.0	11.7	276	0
3	961.141	36.8	21.7	5.4	22.9	41.0	54.0	13.0	183	104
----- Vertical ------										
4	30.000	32.0	17.9	0.8	23.8	26.9	40.0	13.1	199	320
5	519.662	35.1	17.6	3.9	23.1	33.5	46.0	12.5	100	1
6	864.762	37.4	20.5	4.9	23.2	39.6	46.0	6.4	199	78

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

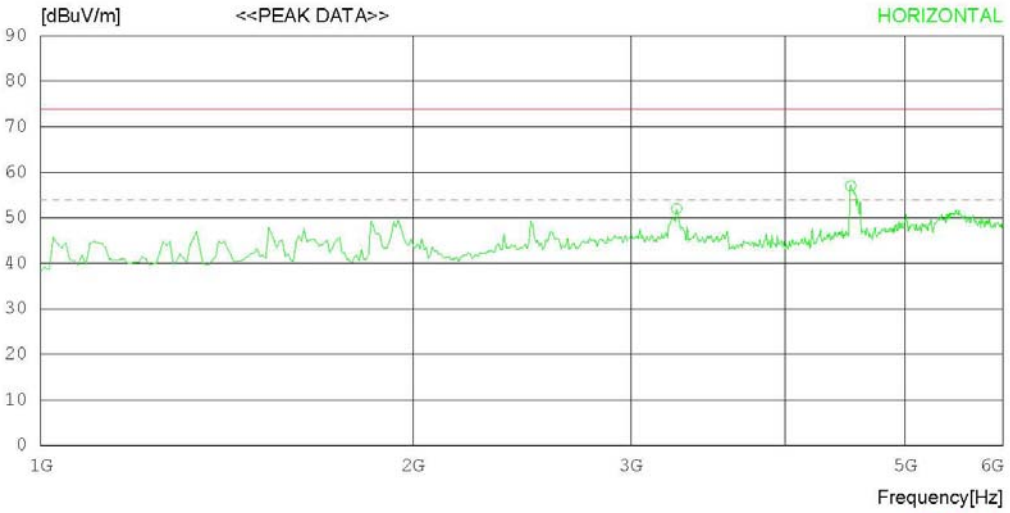
RADIATED EMISSION

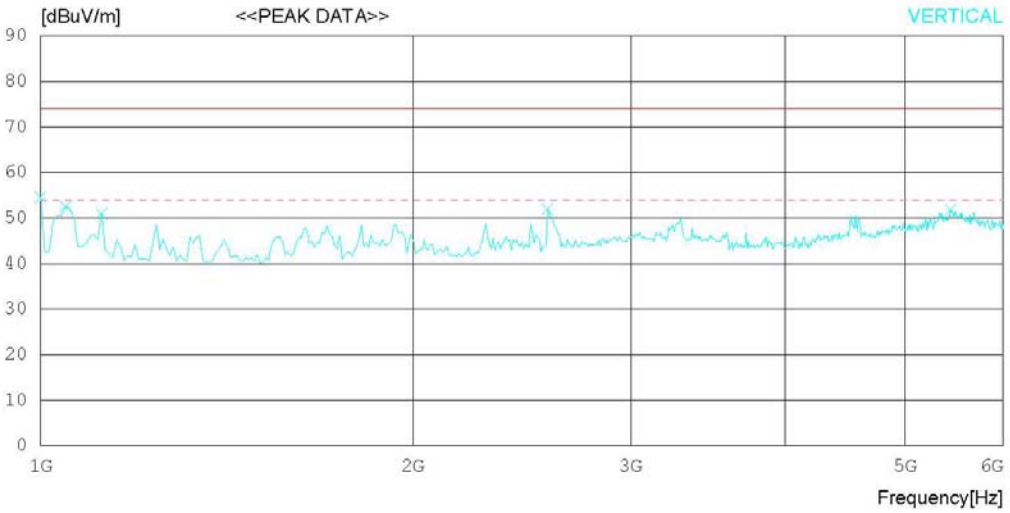
Date : 2013-03-08

Model Name	:	42LP620H-UH	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 39 % 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)





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RADIATED EMISSION

Date : 2013-03-08

Model Name	:	42LP620H-UH	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 39 % 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	3267.646	54.3	28.9	6.0	37.2	52.0	74.0	22	100	219
2	4517.652	55.5	31.0	7.1	36.6	57.0	74.0	17	100	205
----- Vertical ------										
3	1000.000	66.2	23.9	3.3	38.8	54.6	74.0	19.4	100	1
4	1048.077	64.0	23.9	3.4	38.7	52.6	74.0	21.4	100	1
5	1120.192	62.0	24.1	3.5	38.6	51.0	74.0	23	100	1
6	2570.520	56.3	27.7	5.3	37.3	52.0	74.0	22	100	144
7	5439.112	45.4	34.8	7.9	36.3	51.8	74.0	22.2	100	1

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

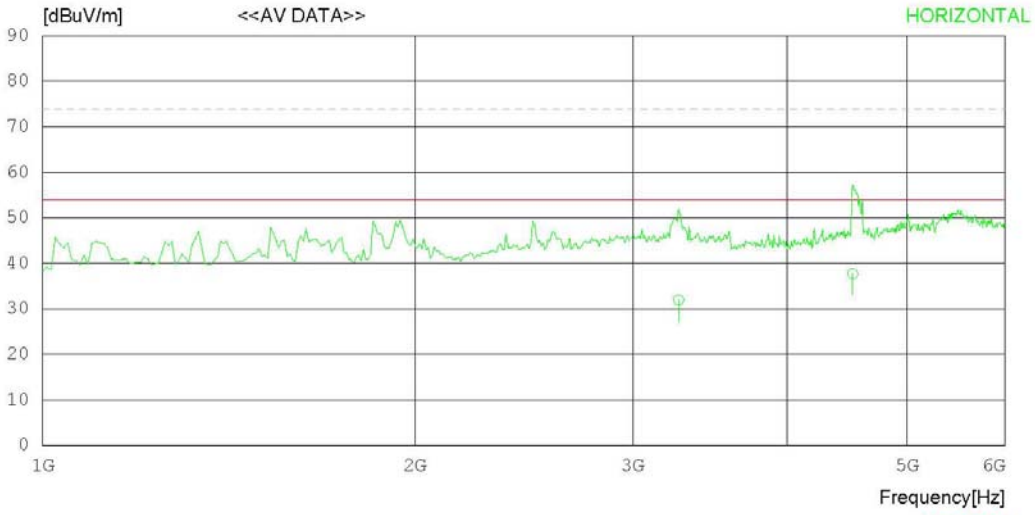
RADIATED EMISSION

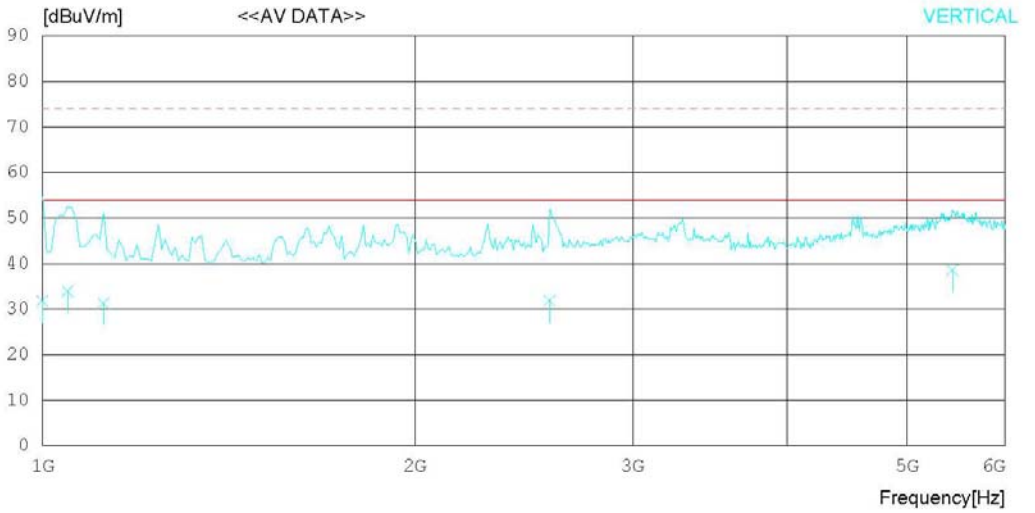
Date : 2013-03-08

Model Name	:	42LP620H-UH	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 39 % 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)





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RADIATED EMISSION

Date : 2013-03-08

Model Name	:	42LP620H-UH	Reference No.	:	
Model No.	:		Power Supply	:	120 V 60 Hz
Serial No.	:		Temp/Humi	:	20 'C 39 % 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	3267.646	34.3	28.9	6.0	37.2	32.0	54.0	22.0	100	219
2	4517.652	36.2	31.0	7.1	36.6	37.7	54.0	16.3	100	205
----- Vertical ------										
3	1000.000	43.4	23.9	3.3	38.8	31.8	54.0	22.2	100	1
4	1048.077	45.4	23.9	3.4	38.7	34.0	54.0	20.0	100	1
5	1120.192	42.3	24.1	3.5	38.6	31.3	54.0	22.7	100	1
6	2570.520	36.1	27.7	5.3	37.3	31.8	54.0	22.2	100	144
7	5439.112	32.2	34.8	7.9	36.3	38.6	54.0	15.4	100	1

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Appendix 1

List of Test and Measurement Instruments

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

1. Conducted Disturbance

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

2. Radiated Disturbance

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

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Appendix 2

Report Revision History

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

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