EMC TEST REPORT

Test item	: LED TV Monitor
Model No.	: 32LN536B-UB
Order No.	: DEMC1301-00343
Date of receipt	: 2013-01-25
Test duration	: 2013-02-09 ~ 2013-02-12
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 : (19 ~ 20) °C,
Humidity : (34 ~ 35) % R.H.

Test result : ☒ Comply ☐ Not Comply

Tested by:

Assistant Manager
DaeHwa Eun

Reviewed by:

General Manager
ChangHo Lee

PRESIDENT OF DIGITAL EMC CO., LTD.

CONTENTS

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.	32LN536B-UB
EUT Type	LED TV Monitor
Serial No	NONE
FCC ID	BEJ32LN536BUB
Type of Sample Tested	Pre-Production
High Frequency	Max 800 MHz
Rating	AC 100-240 V~ 50/60 Hz, 1.3 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
1360 x 768	47.712	60.015
1152 x 864	54.348	60.053
1280 x 1024	63.981	60.02
1920 x 1080	67.50	60.00

4. Test Summary

4.1 Applied standards and test results

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

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

4.2 Test environment and conditions

Test Items	Test date (MM-DD)	Temp (℃)	Humidity (% R.H.)
Conducted Disturbance	02-09	20	35
Radiated Disturbance	02-12	19	34

4.3 Test result Summary

(1) Conducted Emission (HDMI MODE)

Frequency [MHz]	Phase	Result [dBμV]	Detector	Limit [dBμV]	Margin [dB]
0.15055	**L1**	**60.2**	Quasi-Peak	**66.0**	**5.8**

(2) Radiated Emission (HDMI MODE)

Frequency [MHz]	Pol.	Result [dB(μV/m)]	Detector	Limit [dB(μV/m)]	Margin [dB]
539.419	**H**	**40.1**	Quasi-Peak	**46.0**	**5.9**

5. Test Set-up and operation mode

5.1 Principle of Configuration Selection

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

5.2 Test Operation Mode

- HDMI MODE : “H” Pattern mode, 1920 x 1080 Resolution (Worst case)
- USB MODE : USB 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	VOSTRO220	G3RZKBX	DELL INC.	POWER PS/2 PS/2 USB HDMI	1.6 1.8 1.6 1.8 1.8	Not use Not use Not use Not use Not use	Non-shield Non-shield Non-shield Non-shield Shield	Plastic	DOC
KEYBOARD	SKG-210P	TAKSC12256 D	MONITEREY INTERNATIONAL CORP	PS/2	1.8	Not use	Non-shield	Plastic	DOC
MOUSE	SML-510PB	M5PBTAKS60 3018D	MICROSOFT CORPORATION	PS/2	1.6	Not use	Non-shield	Plastic	DOC
CD/DVD PLAYER	DVP-NS92V	2001499	SONY EMCS	POWER AV	1.7 1.8	Not use Not use	Non-shield Non-shield	Plastic	VER
USB MEMORY	SDCZ37-004G	N/A	SANDISK	USB	-	-	-	Plastic	DOC
PRINTER	EPSON AcuLaser	LWTZ181070	EPSON	POWER USB	1.8 2.0	Not use Not use	Non-shield Non-shield	Plastic	DOC
Remote control	AKB73715608	N/A	OHSUNG ELECTRONIC	-	-	-	-	-	-

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 >

Digital EMC

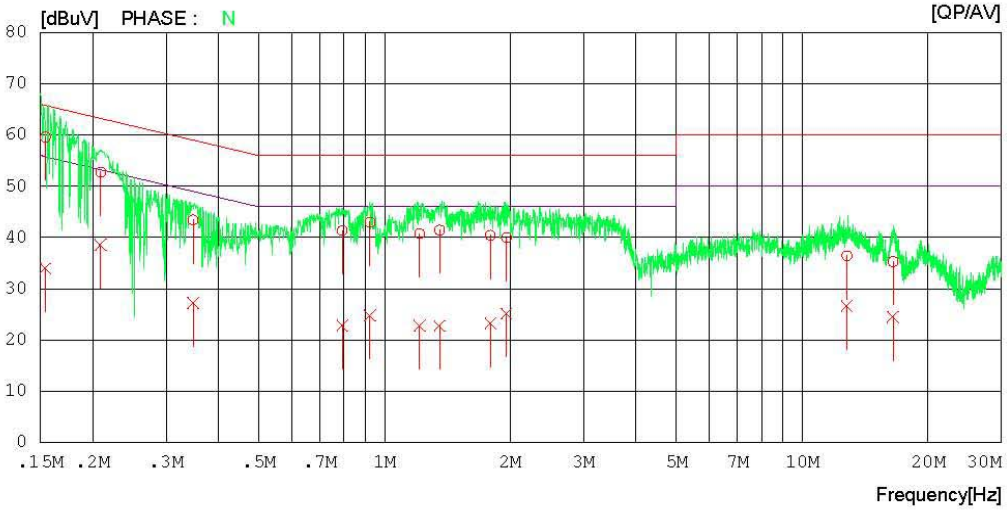
Results of Conducted Emission

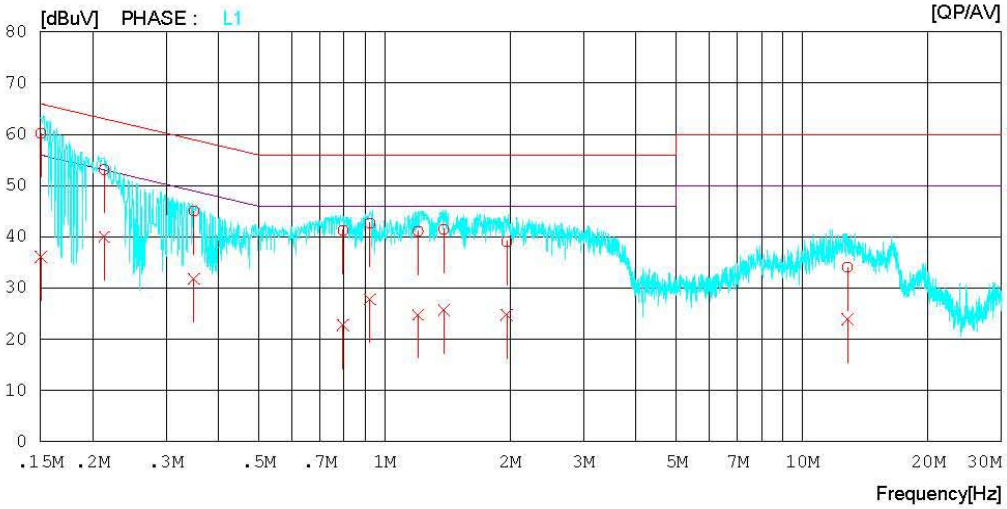
Digital EMC
Date : 2013-02-09

Model No.	:	32LN536B-UB	Referrence No.	:	
Type	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi.	:	20 'C 35 % R.H.
Test Condition	:	HDMI	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV





Results of Conducted Emission

Digital EMC
Date : 2013-02-09

Model No.	:	32LN536B-UB	Referrence No.	:	
Type	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi.	:	20 'C 35 % 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	0.15423	59.4	33.7	0.2	59.6	33.9	65.8	55.8	6.2	21.9	N
2	0.20920	52.5	38.4	0.2	52.7	38.6	63.2	53.2	10.5	14.6	N
3	0.34811	43.2	27.0	0.2	43.4	27.2	59.0	49.0	15.6	21.8	N
4	0.79285	41.1	22.6	0.2	41.3	22.8	56.0	46.0	14.7	23.2	N
5	0.92345	42.8	24.6	0.2	43.0	24.8	56.0	46.0	13.0	21.2	N
6	1.21400	40.4	22.5	0.3	40.7	22.8	56.0	46.0	15.3	23.2	N
7	1.35550	41.1	22.4	0.3	41.4	22.7	56.0	46.0	14.6	23.3	N
8	1.79250	40.1	22.9	0.3	40.4	23.2	56.0	46.0	15.6	22.8	N
9	1.95700	39.7	24.8	0.3	40.0	25.1	56.0	46.0	16.0	20.9	N
10	12.79250	35.7	25.9	0.7	36.4	26.6	60.0	50.0	23.6	23.4	N
11	16.49350	34.5	23.7	0.8	35.3	24.5	60.0	50.0	24.7	25.5	N
12	0.15055	60.0	35.9	0.2	60.2	36.1	66.0	56.0	5.8	19.9	L1
13	0.21339	52.9	39.8	0.2	53.1	40.0	63.1	53.1	10.0	13.1	L1
14	0.34980	44.8	31.6	0.2	45.0	31.8	59.0	49.0	14.0	17.2	L1
15	0.79546	41.1	22.6	0.2	41.3	22.8	56.0	46.0	14.7	23.2	L1
16	0.92311	42.5	27.6	0.2	42.7	27.8	56.0	46.0	13.3	18.2	L1
17	1.20300	40.8	24.5	0.3	41.1	24.8	56.0	46.0	14.9	21.2	L1
18	1.38700	41.2	25.4	0.3	41.5	25.7	56.0	46.0	14.5	20.3	L1
19	1.96250	38.8	24.4	0.3	39.1	24.7	56.0	46.0	16.9	21.3	L1
20	12.84300	33.4	23.2	0.7	34.1	23.9	60.0	50.0	25.9	26.1	L1

< USB MODE >

Digital EMC

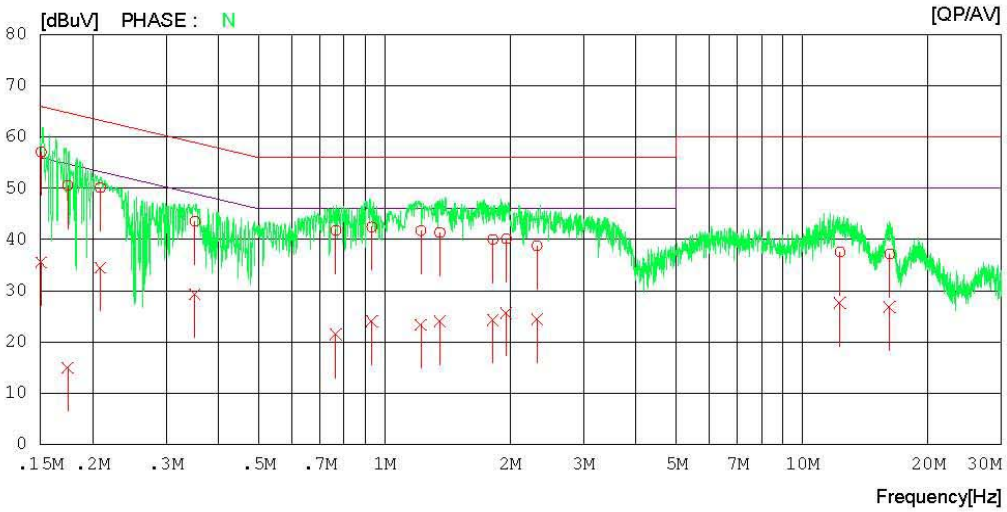
Results of Conducted Emission

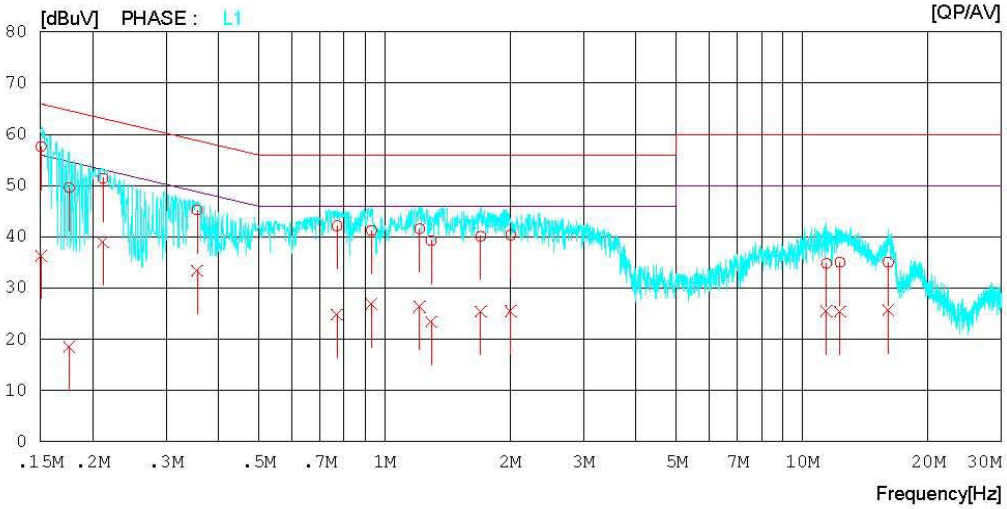
Digital EMC
Date : 2013-02-09

Model No.	:	32LN536B-UB	Referrence No.	:	
Type	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi.	:	20 'C 35 % R.H.
Test Condition	:	USB	Operator	:	

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV





Results of Conducted Emission

Digital EMC
Date : 2013-02-09

Model No.	:	32LN536B-UB	Referrence No.	:	
Type	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi.	:	20 'C 35 % 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	0.15068	56.9	35.3	0.2	57.1	35.5	66.0	56.0	8.9	20.5	N
2	0.17444	50.3	14.8	0.2	50.5	15.0	64.7	54.7	14.2	39.7	N
3	0.20884	49.9	34.3	0.2	50.1	34.5	63.3	53.3	13.2	18.8	N
4	0.35150	43.3	29.1	0.2	43.5	29.3	58.9	48.9	15.4	19.6	N
5	0.76473	41.6	21.3	0.2	41.8	21.5	56.0	46.0	14.2	24.5	N
6	0.93283	42.2	23.9	0.2	42.4	24.1	56.0	46.0	13.6	21.9	N
7	1.22200	41.4	23.1	0.3	41.7	23.4	56.0	46.0	14.3	22.6	N
8	1.35750	41.0	23.8	0.3	41.3	24.1	56.0	46.0	14.7	21.9	N
9	1.81800	39.7	24.0	0.3	40.0	24.3	56.0	46.0	16.0	21.7	N
10	1.95700	39.8	25.4	0.3	40.1	25.7	56.0	46.0	15.9	20.3	N
11	2.32000	38.4	24.1	0.3	38.7	24.4	56.0	46.0	17.3	21.6	N
12	12.32050	36.9	26.9	0.7	37.6	27.6	60.0	50.0	22.4	22.4	N
13	16.18750	36.4	26.0	0.8	37.2	26.8	60.0	50.0	22.8	23.2	N
14	0.15074	57.4	36.1	0.2	57.6	36.3	66.0	56.0	8.4	19.7	L1
15	0.17594	49.4	18.4	0.2	49.6	18.6	64.7	54.7	15.1	36.1	L1
16	0.21198	51.3	38.8	0.2	51.5	39.0	63.1	53.1	11.6	14.1	L1
17	0.35615	45.0	33.2	0.2	45.2	33.4	58.8	48.8	13.6	15.4	L1
18	0.76983	41.9	24.6	0.2	42.1	24.8	56.0	46.0	13.9	21.2	L1
19	0.93208	41.1	26.7	0.2	41.3	26.9	56.0	46.0	14.7	19.1	L1
20	1.21300	41.3	26.1	0.3	41.6	26.4	56.0	46.0	14.4	19.6	L1
21	1.29450	39.0	23.1	0.3	39.3	23.4	56.0	46.0	16.7	22.6	L1
22	1.70050	39.8	25.1	0.3	40.1	25.4	56.0	46.0	15.9	20.6	L1
23	2.00650	40.1	25.2	0.3	40.4	25.5	56.0	46.0	15.6	20.5	L1
24	11.44300	34.1	24.8	0.7	34.8	25.5	60.0	50.0	25.2	24.5	L1
25	12.31750	34.3	24.8	0.7	35.0	25.5	60.0	50.0	25.0	24.5	L1
26	16.07400	34.3	24.9	0.8	35.1	25.7	60.0	50.0	24.9	24.3	L1

6.2 Radiated Disturbance

6.2.1 Measurement Procedure

The radiated disturbance was measured and set-up was made accordance with **ANSI C63.4.**
If the EUT is tabletop equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 3 m or 10 m away from the interference receiving antenna in the **10m semi-anechoic chamber.**
Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane.
Rotate the EUT from (0 - 360)° and position the receiving antenna at heights from (1 - 4) m above the reference ground plane continuously to determine associated with higher emission levels and record them.
The measurement was made in both the vertical and horizontal polarization, and the maximum value is presented in the report.
For below 1 GHz frequency range, Quasi-Peak detector with 120 kHz RBW was used.
Also Peak and Average detector with 1 MHz RBW were used for above 1 GHz frequency range.
For further description of the configuration refer to the picture of the test set-up.

6.2.2 Limit for Radiated Disturbance

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

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 108	1 000
108 – 500	2 000
500 – 1 000	5 000
Above 1 000	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

Test Result

< HDMI MODE_30 MHz ~ 1 GHz >

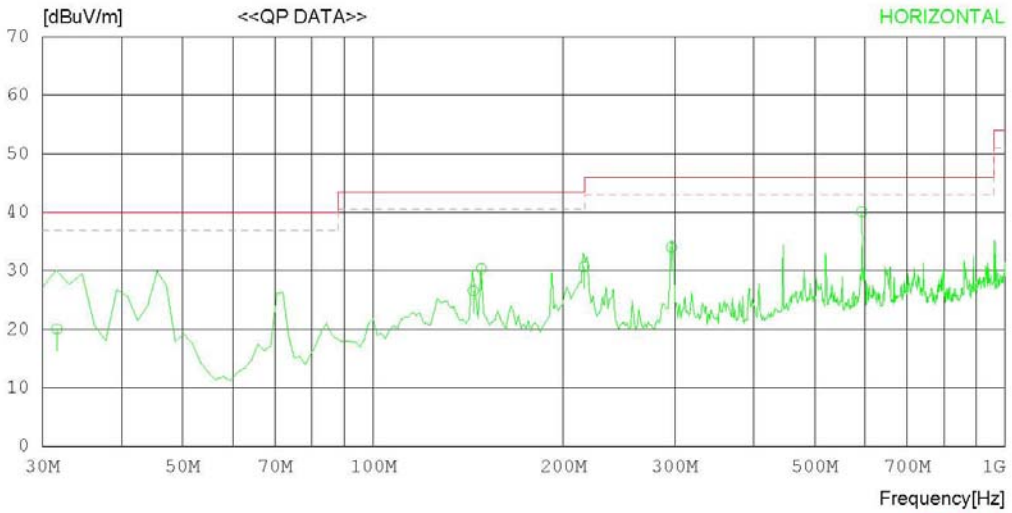
RADIATED EMISSION

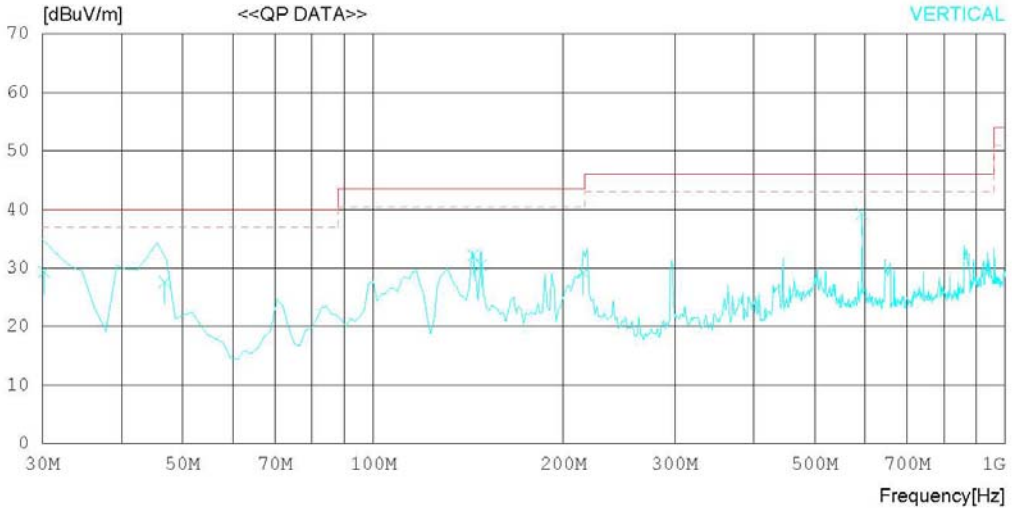
Date : 2013-02-12

Model Name	:	32LN536B-UB	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	19 'C 34 % R.H.
Test Condition	:	HDMI	Operator	:	

Memo :

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





RADIATED EMISSION

Date : 2013-02-12

Model Name	:	32LN536B-UB	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	19 'C 34 % 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	31.600	26.0	17.0	0.9	23.8	20.1	40.0	19.9	100	12
2	144.009	38.4	10.7	1.7	24.2	26.6	43.5	16.9	300	188
3	148.353	42.4	10.5	1.7	24.2	30.4	43.5	13.1	221	56
4	215.604	41.6	10.6	2.4	23.9	30.7	43.5	12.8	100	277
5	296.697	41.1	13.7	2.8	23.6	34.0	46.0	12.0	224	246
6	593.419	40.8	18.6	4.1	23.4	40.1	46.0	5.9	200	237
----- Vertical ------										
7	30.172	34.5	17.8	0.8	23.8	29.3	40.0	10.7	100	46
8	46.811	38.8	11.9	1.2	24.3	27.6	40.0	12.4	100	178
9	144.006	44.0	10.7	1.7	24.2	32.2	43.5	11.3	100	13
10	148.375	42.5	10.5	1.7	24.2	30.5	43.5	13.0	100	350
11	215.154	40.1	10.6	2.4	23.9	29.2	43.5	14.3	100	13
12	593.420	40.0	18.6	4.1	23.4	39.3	46.0	6.7	100	358

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

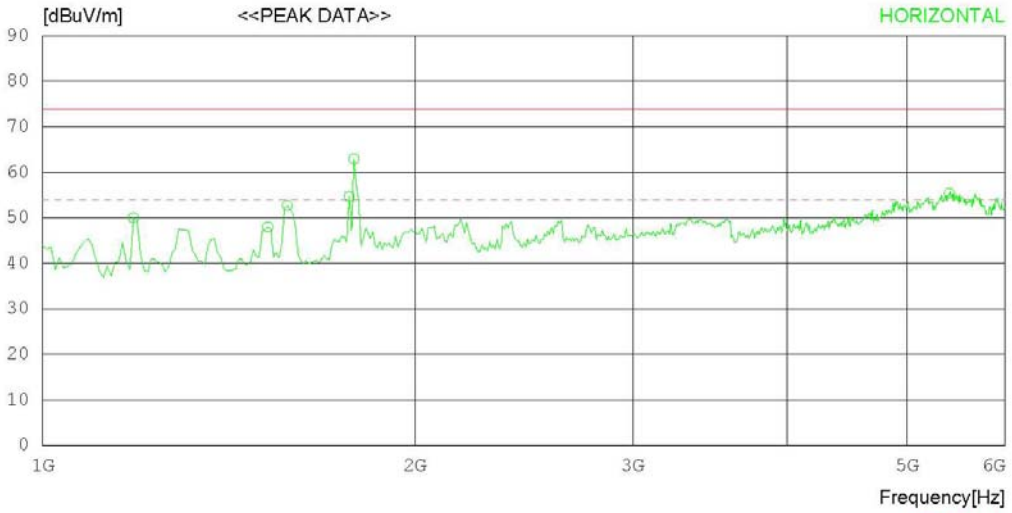
RADIATED EMISSION

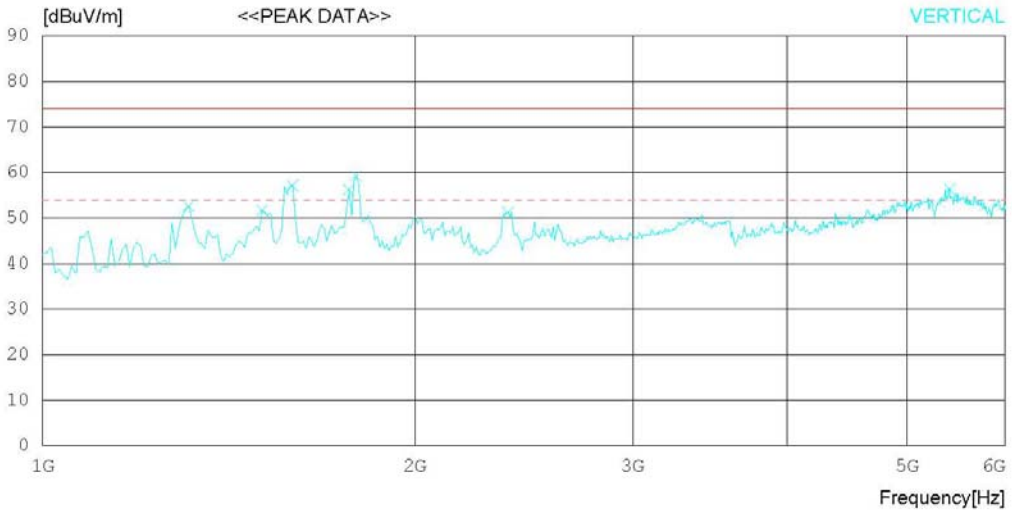
Date : 2013-02-12

Model Name	: 32LN536B-UB	Reference No.	:		
Model No.	:	Power Supply	:	120V	60Hz
Serial No.	:	Temp/Humi	:	19 'C	34 % R.H.
Test Condition	: HDMI	Operator	:		

Memo :

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





RADIATED EMISSION

Date : 2013-02-12

Model Name	:	32LN536B-UB	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	19 'C 34 % 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	1184.295	47.9	24.2	6.4	28.5	50.0	74.0	24	100	122
2	1520.833	44.4	24.6	7.5	28.5	48.0	74.0	26	100	1
3	1576.923	49.0	24.6	7.6	28.5	52.7	74.0	21.3	100	1
4	1769.230	50.6	24.6	8.0	28.5	54.7	74.0	19.3	100	169
5	1785.256	58.8	24.6	8.0	28.5	62.9	74.0	11.1	100	1
6	5407.061	33.9	34.6	15.0	28.1	55.4	74.0	18.6	100	7
----- Vertical ------										
7	1312.500	50.0	24.4	6.8	28.5	52.7	74.0	21.3	100	188
8	1504.807	48.1	24.6	7.5	28.5	51.7	74.0	22.3	100	358
9	1592.948	53.4	24.6	7.7	28.5	57.2	74.0	16.8	100	358
10	1769.230	52.1	24.6	8.0	28.5	56.2	74.0	17.8	100	220
11	1793.269	55.1	24.6	8.1	28.5	59.3	74.0	14.7	100	358
12	2378.210	43.7	26.7	9.3	28.5	51.2	74.0	22.8	100	358
13	5407.061	34.9	34.6	15.0	28.1	56.4	74.0	17.6	100	89

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

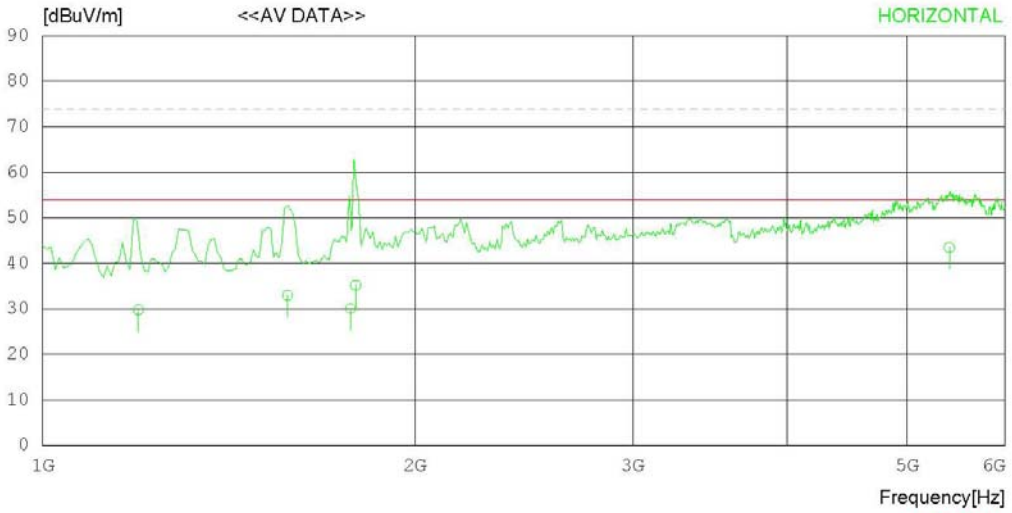
RADIATED EMISSION

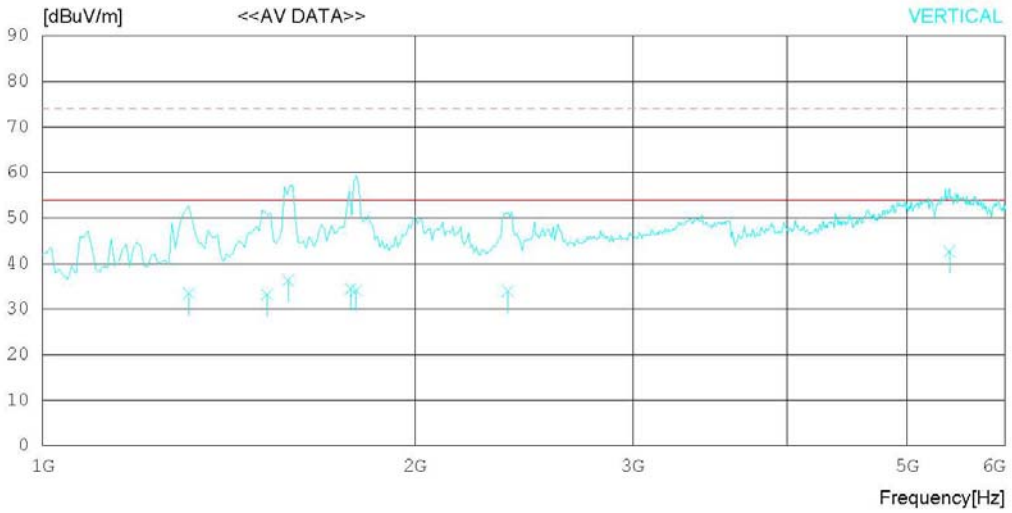
Date : 2013-02-12

Model Name	:	32LN536B-UB	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	19 'C 34 % R.H.
Test Condition	:	HDMI	Operator	:	

Memo :

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





RADIATED EMISSION

Date : 2013-02-12

Model Name	:	32LN536B-UB	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	19 'C 34 % 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	1195.458	27.7	24.2	6.4	28.5	29.8	54.0	24.2	100	122
2	1577.686	29.3	24.6	7.6	28.5	33.0	54.0	21.0	100	179
3	1774.083	26.0	24.6	8.0	28.5	30.1	54.0	23.9	100	64
4	1791.045	31.0	24.6	8.1	28.5	35.2	54.0	18.8	100	169
5	5407.061	22.0	34.6	15.0	28.1	43.5	54.0	10.5	100	99
----- Vertical ------										
6	1313.122	30.8	24.4	6.8	28.5	33.5	54.0	20.5	100	185
7	1518.644	29.6	24.6	7.5	28.5	33.2	54.0	20.8	100	191
8	1579.186	32.5	24.6	7.7	28.5	36.3	54.0	17.7	100	99
9	1774.083	30.4	24.6	8.0	28.5	34.5	54.0	19.5	100	90
10	1793.269	30.0	24.6	8.1	28.5	34.2	54.0	19.8	100	189
11	2378.210	26.5	26.7	9.3	28.5	34.0	54.0	20.0	100	198
12	5407.061	21.1	34.6	15.0	28.1	42.6	54.0	11.4	100	221

< USB MODE_30 MHz ~ 1 GHz >

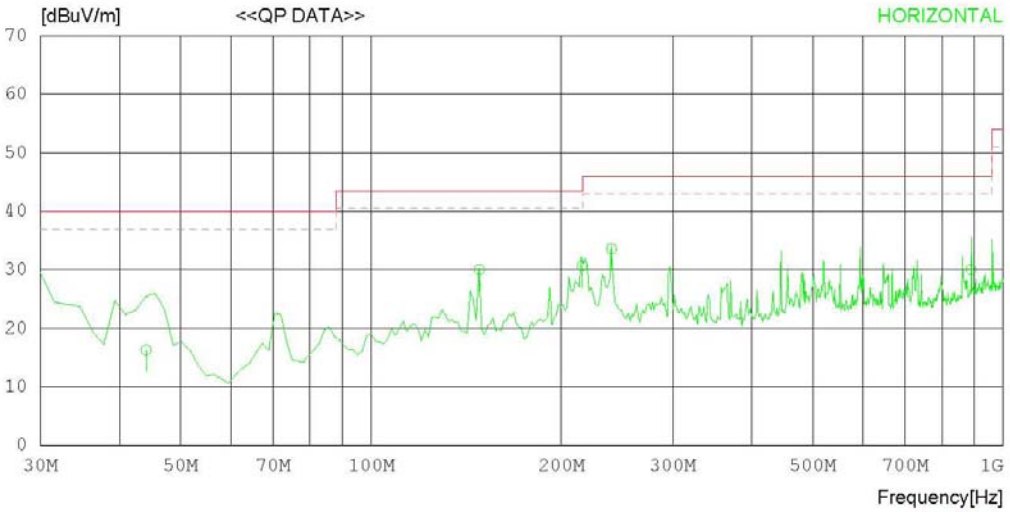
RADIATED EMISSION

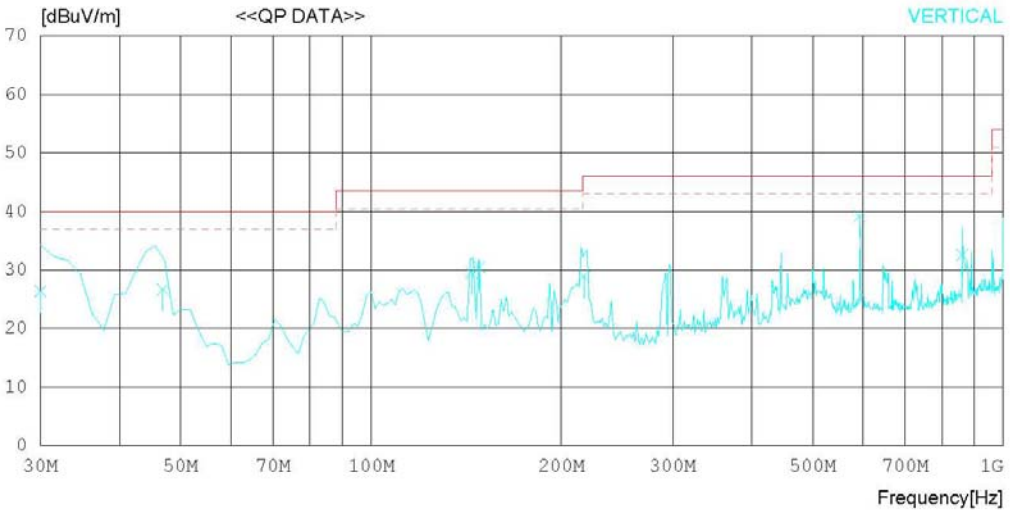
Date : 2013-02-12

Model Name	:	32LN536B-UB	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	19 'C 34 % R.H.
Test Condition	:	USB	Operator	:	

Memo :

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





RADIATED EMISSION

Date : 2013-02-12

Model Name	:	32LN536B-UB	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	19 'C 34 % 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	44.048	25.7	13.7	1.1	24.2	16.3	40.0	23.7	202	153
2	148.356	42.0	10.5	1.7	24.2	30.0	43.5	13.5	193	101
3	215.679	41.6	10.6	2.4	23.9	30.7	43.5	12.8	100	294
4	240.003	42.8	12.1	2.5	23.8	33.6	46.0	12.4	100	46
5	890.122	27.2	20.7	5.2	23.1	30.0	46.0	16.0	100	101
----- Vertical ------										
6	30.000	31.5	17.9	0.8	23.8	26.4	40.0	13.6	199	191
7	46.843	38.0	11.8	1.2	24.3	26.7	40.0	13.3	100	172
8	144.000	41.4	10.7	1.7	24.2	29.6	43.5	13.9	100	6
9	148.343	42.5	10.5	1.7	24.2	30.5	43.5	13.0	100	346
10	217.109	39.7	10.7	2.4	23.9	28.9	46.0	17.1	100	331
11	593.404	39.9	18.6	4.1	23.4	39.2	46.0	6.8	100	174
12	861.653	30.4	20.5	4.9	23.2	32.6	46.0	13.4	100	198

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

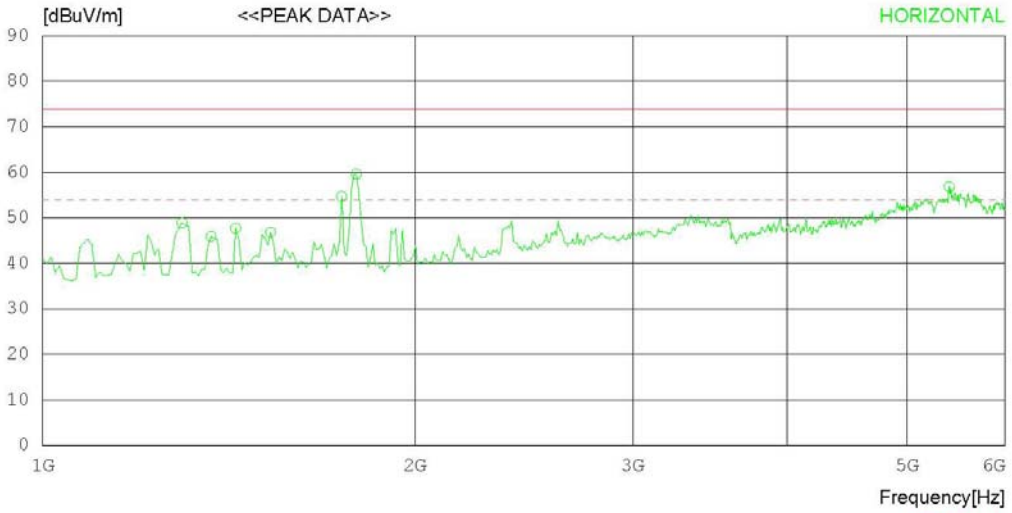
RADIATED EMISSION

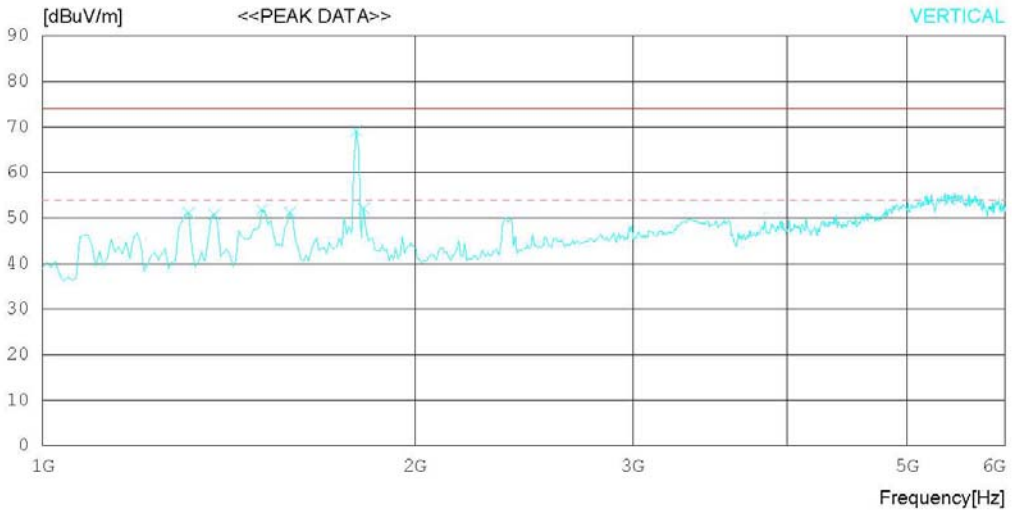
Date : 2013-02-12

Model Name	:	32LN536B-UB	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	19 'C 34 % R.H.
Test Condition	:	USB	Operator	:	

Memo :

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





RADIATED EMISSION

Date : 2013-02-12

Model Name	:	32LN536B-UB	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	19 'C 34 % 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	1296.474	46.3	24.3	6.8	28.5	48.9	74.0	25.1	100	131
2	1368.590	43.0	24.4	7.0	28.5	45.9	74.0	28.1	100	124
3	1432.692	44.4	24.5	7.3	28.5	47.7	74.0	26.3	100	358
4	1528.846	43.1	24.6	7.6	28.5	46.8	74.0	27.2	100	189
5	1745.192	50.6	24.6	8.0	28.5	54.7	74.0	19.3	100	91
6	1793.269	55.4	24.6	8.1	28.5	59.6	74.0	14.4	100	124
7	5407.061	35.3	34.6	15.0	28.1	56.8	74.0	17.2	100	186
----- Vertical ------										
8	1312.500	48.4	24.4	6.8	28.5	51.1	74.0	22.9	100	188
9	1376.602	47.7	24.5	7.1	28.5	50.8	74.0	23.2	100	173
10	1504.807	48.2	24.6	7.5	28.5	51.8	74.0	22.2	100	1
11	1584.936	47.4	24.6	7.7	28.5	51.2	74.0	22.8	100	1
12	1793.269	64.9	24.6	8.1	28.5	69.1	74.0	4.9	100	188
13	1817.307	47.9	24.6	8.1	28.5	52.1	74.0	21.9	100	1
14	5407.061	32.7	34.6	15.0	28.1	54.2	74.0	19.8	100	37

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

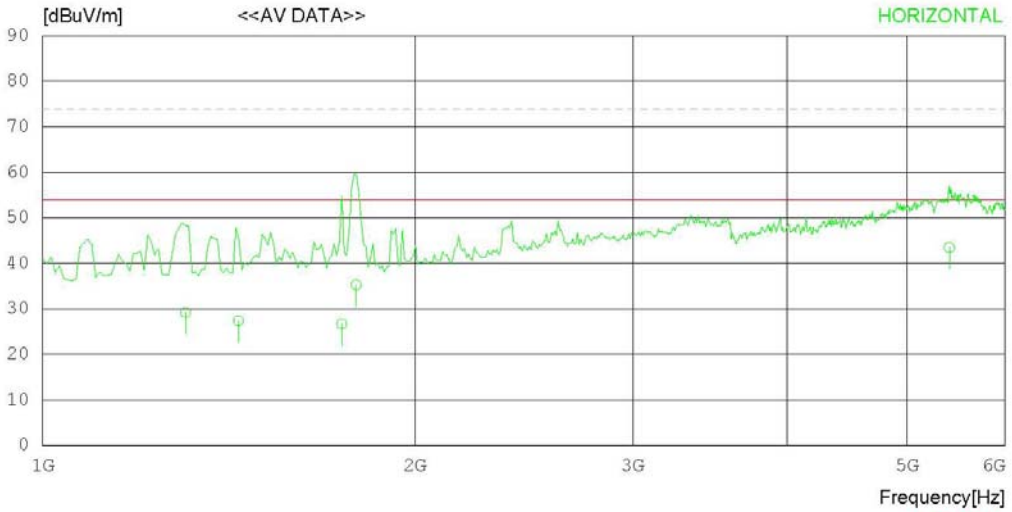
RADIATED EMISSION

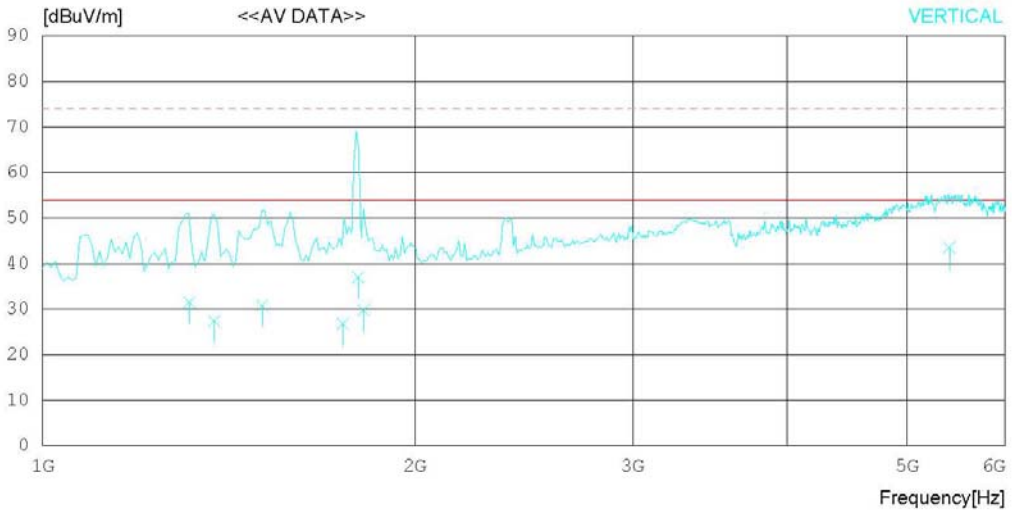
Date : 2013-02-12

Model Name	:	32LN536B-UB	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	19 'C 34 % R.H.
Test Condition	:	USB	Operator	:	

Memo :

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





RADIATED EMISSION

Date : 2013-02-12

Model Name	:	32LN536B-UB	Reference No.	:	
Model No.	:		Power Supply	:	120V 60Hz
Serial No.	:		Temp/Humi	:	19 'C 34 % 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	1304.788	26.6	24.3	6.8	28.5	29.2	54.0	24.8	100	131
2	1439.804	24.0	24.6	7.3	28.5	27.4	54.0	26.6	100	181
3	1745.192	22.6	24.6	8.0	28.5	26.7	54.0	27.3	100	91
4	1793.256	31.1	24.6	8.1	28.5	35.3	54.0	18.7	100	124
5	5407.061	22.0	34.6	15.0	28.1	43.5	54.0	10.5	100	186
----- Vertical ------										
6	1313.788	28.8	24.4	6.8	28.5	31.5	54.0	22.5	100	236
7	1377.288	24.3	24.5	7.1	28.5	27.4	54.0	26.6	100	173
8	1504.807	27.2	24.6	7.5	28.5	30.8	54.0	23.2	100	188
9	1748.564	22.7	24.6	8.0	28.5	26.8	54.0	27.2	100	213
10	1799.346	32.8	24.6	8.1	28.5	37.0	54.0	17.0	100	188
11	1817.307	25.6	24.6	8.1	28.5	29.8	54.0	24.2	100	146
12	5407.061	22.0	34.6	15.0	28.1	43.5	54.0	10.5	100	37

Appendix 1

List of Test and Measurement Instruments

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

1. Conducted Disturbance

Name of Instrument		Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☐	SPECTRUM ANALYZER	8591E	H/P	3649A05889	2012.03.05	2013.03.05
☐	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	2012.03.06	2013.03.06
☒	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
☒	AMPLIFIER	MLA-100M18-B01-25	TSJ	1719458	2012.06.04	2013.06.04
☐	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	2012.03.06	2013.03.06
☐	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	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