

EMC TEST REPORT

Test item : LED TV Monitor
Model No. : 32LN570B-UH
Order No. : 1212-03075
Date of receipt : 2012-12-28
Test duration : 2013-01-04 ~ 2013-01-12
Use of report : FCC CoC Marking
Date of Issue : 2013-01-16

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 : (18 ~ 20) °C,
Humidity : (27 ~ 31) % R.H.

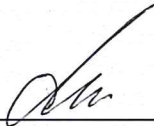
Test result : ☒ Comply ☐ Not Comply

The test results presented in this test report are limited only to the sample supplied by applicant and
the use of this test report is inhibited other than its purpose.

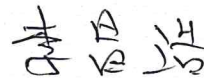
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Tested by:

Reviewed by:



Assistant Manager
DaeHwa Eun



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.digitalemcc.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.	32LN570B-UH
EUT Type	LED TV Monitor
Serial No	NONE
FCC ID	BEJ32LN570BUH
Type of Sample Tested	Pre-Production
High Frequency	Max 800 MHz
Rating	AC 100-240 V~ 50/60 Hz
Supplied Power for Test	AC 120 V, 60 Hz
Applicant	LG Electronics Inc. 19-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, 451-713, Korea
Manufacturer	LG Electronics Inc. 19-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, 451-713, Korea

HDMI (PC) supported mode

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
640 x 350	31.468	70.09
720 x 400	31.469	70.08
640 x 480	31.469	59.94
800 x 600	37.879	60.31
1024 x 768	48.363	60.00
1152 x 864	54.348	60.053
1360 x 768	47.712	60.015
1280 x 1024	63.981	60.020
1920 x 1080	67.50	60.00

4. Test Summary

4.1 Applied standards and test results

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

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

4.2 Test environment and conditions

Test Items	Test date (MM-DD)	Temp (°C)	Humidity (% R.H.)
Conducted Disturbance	01-04	19	27
Radiated Disturbance	01-11 01-12	20 18	31 31

4.3 Test result Summary

(1) Conducted Emission (USB MODE)

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
0.15428	N	57.6	Quasi-Peak	65.8	8.2

(2) Radiated Emission (USB MODE)

Frequency [MHz]	Pol.	Result [dB(μ V/m)]	Detector	Limit [dB(μ V/m)]	Margin [dB]
31.651	V	36.8	Quasi-Peak	40.0	3.2

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, 1920x1080 Resolution (Worst Case)
- USB MODE : USB record file play

5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE				Backshell	FCC ID
				Connect type	Length (m)	ferrite core	shield		
PC	VOSTRO220	G3RZKBX	DELL INC.	POWER	1.6	Not use	Non-shield	Plastic	DOC
				USB	1.8	Not use	Non-shield		
				USB	1.6	Not use	Non-shield		
				USB	2.0	Not use	Non-shield		
KEYBOARD	SKG-3000UB	TAKB601241E	MONITEREY INTERNATIONAL CORP	USB	1.8	Not use	Non-shield	Plastic	DOC
MOUSE	MS111-L	N/A	DELL INC.	USB	1.6	Not use	Non-shield	Plastic	DOC
CD/DVD PLAYER	DVP-NS92V	20014*99	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	SRP-770	N/A	BICOLON	POWER USB	1.8 2.0	Not use Not use	Non-shield Non-shield	Plastic	DOC
Remote control	AKB73756542	N/A	OHSUNG ELECTRONICS CO., LTD	-	-	-	-	-	-
Headset	COV903	N/A	COSY	STEREO	2.0	Not use	Non-shield	Plastic	DOC

6. Test Results : Emission

6.1 Conducted Disturbance

6.1.1 Measurement Procedure

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

If the EUT is table top equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 0.4 m from the conducting wall of the shielded room.

Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane.

Connect the EUT's power source lines to the appropriate power mains / peripherals through the LISN. All the other peripherals are connected to the 2nd LISN, if any.

Unused measuring port of the LISN was resistively terminated by 50 ohm terminator.

The measuring port of the LISN for EUT was connected to spectrum analyzer.

Using conducted emission test software, the emissions were scanned with peak detector mode.

After scanning over the frequency range, suspected emissions were selected to perform final measurement. When performing final measurement, the receiver was used which has Quasi-Peak detector and Average detector.

By varying the configuration of the test sample and the cable routing it was attempted to maximize the emission.

For further description of the configuration refer to the picture of the test set-up.

6.1.2 Limit for Conducted Disturbance

(1) Conducted disturbance at mains ports.

Frequency range (MHz)	Limits dB(μV)			
	Quasi-peak		Average	
	Class A	Class B	Class A	Class B
0.15 to 0.50	79	66 to 56	66	56 to 46
0.50 to 5	73	56	60	46
5 to 30		60		50
Note 1 The lower limit shall apply at the transition frequencies.				
Note 2 The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

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

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

3. Margin = Limit - Emission level

Test Result

< HDMI MODE >



Results of Conducted Emission

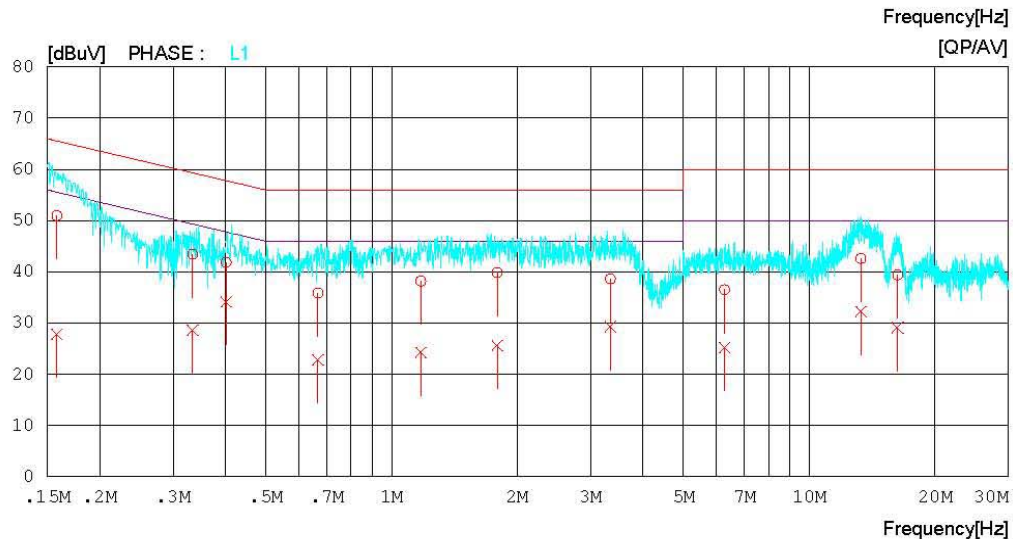
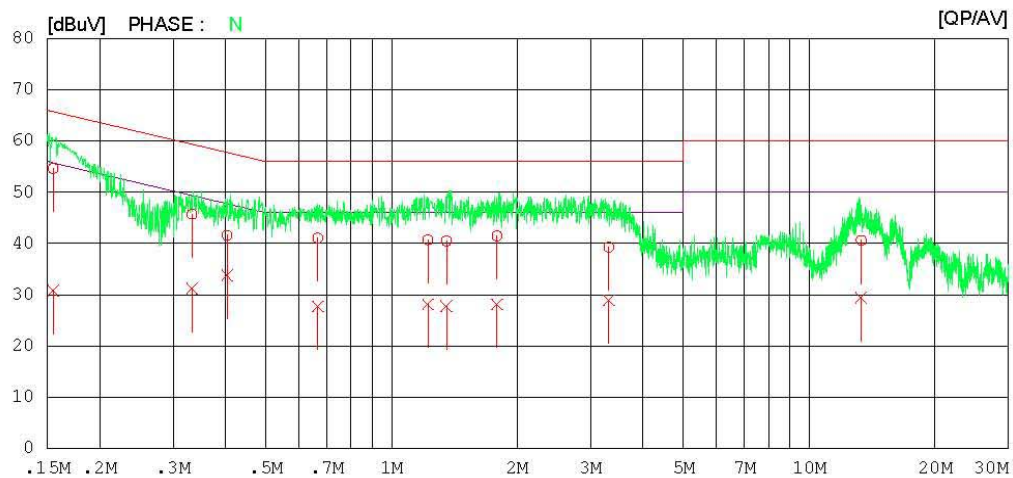
Digital EMC
Date : 2013-01-04

Model No. : 32LN570B-UH
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 19 °C 27 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-01-04

Model No. : 32LN570B-UH
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 19 °C 27 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15485	54.4	30.6	0.2	54.6	30.8	65.7	55.7	11.1	24.9	N
2	0.33291	45.5	31.0	0.2	45.7	31.2	59.4	49.4	13.7	18.2	N
3	0.40394	41.4	33.6	0.2	41.6	33.8	57.8	47.8	16.2	14.0	N
4	0.66641	40.9	27.5	0.2	41.1	27.7	56.0	46.0	14.9	18.3	N
5	1.22250	40.4	27.8	0.3	40.7	28.1	56.0	46.0	15.3	17.9	N
6	1.35350	40.2	27.5	0.3	40.5	27.8	56.0	46.0	15.5	18.2	N
7	1.78900	41.2	27.8	0.3	41.5	28.1	56.0	46.0	14.5	17.9	N
8	3.31200	39.0	28.7	0.3	39.3	29.0	56.0	46.0	16.7	17.0	N
9	13.31450	39.9	28.7	0.7	40.6	29.4	60.0	50.0	19.4	20.6	N
10	0.15799	50.8	27.6	0.2	51.0	27.8	65.6	55.6	14.6	27.8	L1
11	0.33401	43.2	28.5	0.2	43.4	28.7	59.4	49.4	16.0	20.7	L1
12	0.40208	41.7	34.0	0.2	41.9	34.2	57.8	47.8	15.9	13.6	L1
13	0.66670	35.7	22.6	0.2	35.9	22.8	56.0	46.0	20.1	23.2	L1
14	1.17650	37.9	24.0	0.3	38.2	24.3	56.0	46.0	17.8	21.7	L1
15	1.79250	39.6	25.3	0.3	39.9	25.6	56.0	46.0	16.1	20.4	L1
16	3.34300	38.3	29.0	0.3	38.6	29.3	56.0	46.0	17.4	16.7	L1
17	6.27300	36.0	24.7	0.5	36.5	25.2	60.0	50.0	23.5	24.8	L1
18	13.29850	41.9	31.6	0.7	42.6	32.3	60.0	50.0	17.4	17.7	L1
19	16.28650	38.6	28.3	0.8	39.4	29.1	60.0	50.0	20.6	20.9	L1

< USB MODE >



Results of Conducted Emission

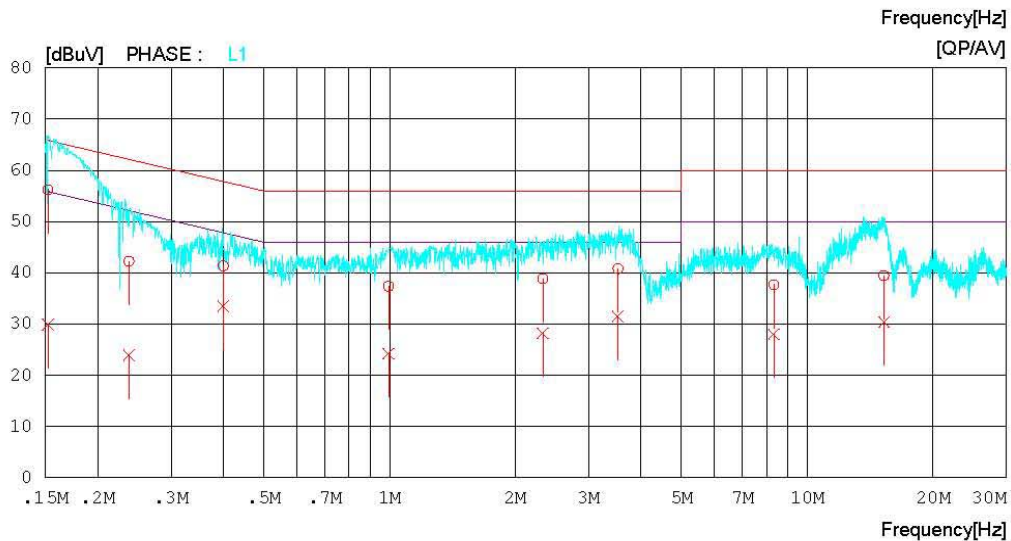
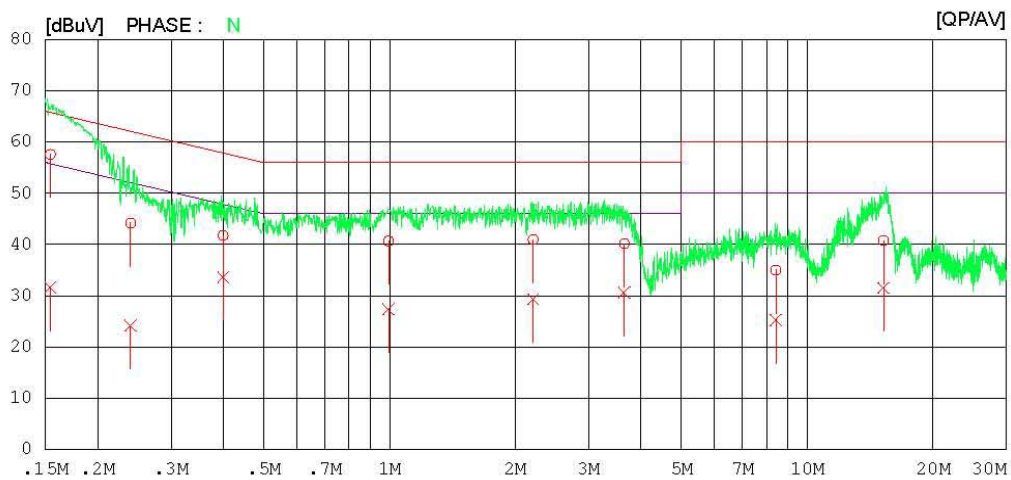
Digital EMC
Date : 2013-01-04

Model No. : 32LN570B-UH
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 19°C 27 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-01-04

Model No. : 32LN570B-UH
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 19 °C 27 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15428	57.4	31.4	0.2	57.6	31.6	65.8	55.8	8.2	24.2	N
2	0.24005	44.0	24.0	0.2	44.2	24.2	62.1	52.1	17.9	27.9	N
3	0.40004	41.5	33.4	0.2	41.7	33.6	57.9	47.9	16.2	14.3	N
4	0.99524	40.4	27.2	0.2	40.6	27.4	56.0	46.0	15.4	18.6	N
5	2.20750	40.7	29.0	0.3	41.0	29.3	56.0	46.0	15.0	16.7	N
6	3.64900	39.9	30.3	0.3	40.2	30.6	56.0	46.0	15.8	15.4	N
7	8.41200	34.3	24.5	0.7	35.0	25.2	60.0	50.0	25.0	24.8	N
8	15.22750	39.9	30.7	0.8	40.7	31.5	60.0	50.0	19.3	18.5	N
9	0.15219	56.1	29.7	0.2	56.3	29.9	65.9	55.9	9.6	26.0	L1
10	0.23795	42.1	23.7	0.2	42.3	23.9	62.2	52.2	19.9	28.3	L1
11	0.40009	41.2	33.3	0.2	41.4	33.5	57.9	47.9	16.5	14.4	L1
12	0.99490	37.2	24.1	0.2	37.4	24.3	56.0	46.0	18.6	21.7	L1
13	2.32900	38.6	27.9	0.3	38.9	28.2	56.0	46.0	17.1	17.8	L1
14	3.52350	40.5	31.2	0.3	40.8	31.5	56.0	46.0	15.2	14.5	L1
15	8.32550	37.0	27.4	0.7	37.7	28.1	60.0	50.0	22.3	21.9	L1
16	15.26650	38.7	29.6	0.8	39.5	30.4	60.0	50.0	20.5	19.6	L1

6.2 Radiated Disturbance

6.2.1 Measurement Procedure

The radiated disturbance was measured and set-up was made accordance with **ANSI C63.4**.

If the EUT is tabletop equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 3 m or 10 m away from the interference receiving antenna in the **10m semi-anechoic chamber**.

Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane.

Rotate the EUT from (0 - 360)° and position the receiving antenna at heights from (1 - 4) m above the reference ground plane continuously to determine associated with higher emission levels and record them.

The measurement was made in both the vertical and horizontal polarization, and the maximum value is presented in the report.

For below 1 GHz frequency range, Quasi-Peak detector with 120 kHz RBW was used.

Also Peak and Average detector with 1 MHz RBW were used for above 1 GHz frequency range.

For further description of the configuration refer to the picture of the test set-up.

6.2.2 Limit for Radiated Disturbance

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

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 108	1 000
108 – 500	2 000
500 – 1 000	5 000
Above 1 000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

(1) Limit for Radiated Emission below 1 000MHz

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

Note 1 The lower limit shall apply at the transition frequency.

Note 2 Additional provisions may be required for cases where interference occurs.

Note 3 According to 15.109(g), as an alternative to the radiated emission limit shown above, digital devices may be shown to comply with the standards(CISPR), Pub. 22 shown as below.

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

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

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

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

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

3. Margin = Limit - Emission level

Test Result

< HDMI MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

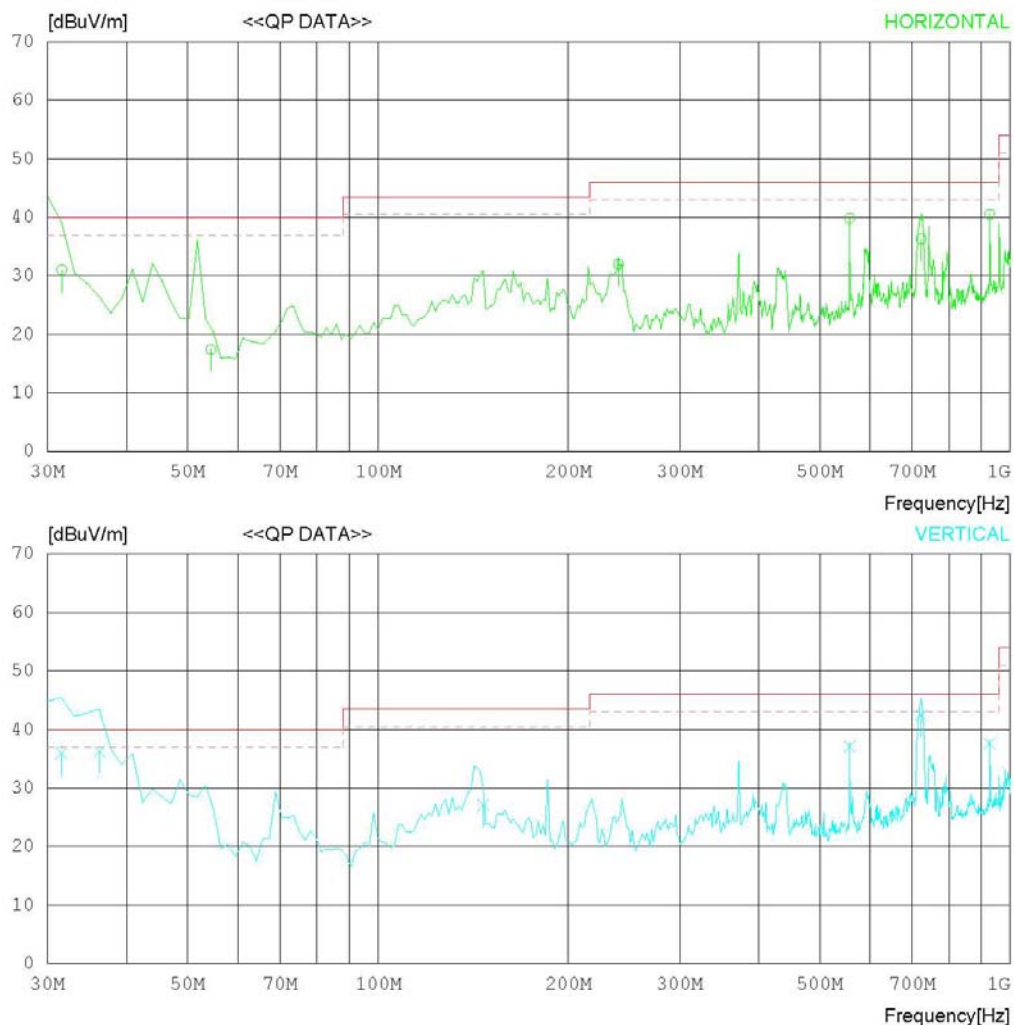
Date : 2013-01-11

Model Name : 32LN570B-UH
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 20 °C 31 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2013-01-11

Model Name : 32LN570B-UH	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 20 °C 31 % 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	36.3	17.0	0.9	23.2	31.0	40.0	9.0	100	358
2	54.372	31.7	7.0	1.4	22.7	17.4	40.0	22.6	210	247
3	556.894	42.7	18.1	3.8	24.8	39.8	46.0	6.2	100	154
4	240.000	41.0	12.1	2.5	23.6	32.0	46.0	14.0	100	204
5	723.302	36.9	18.9	4.6	24.1	36.3	46.0	9.7	201	163
6	928.162	37.0	21.2	5.3	23.0	40.5	46.0	5.5	100	358
----- Vertical -----										
7	31.576	41.2	17.1	0.9	23.2	36.0	40.0	4.0	100	311
8	36.300	43.6	14.6	1.1	23.1	36.2	40.0	3.8	100	139
9	146.648	37.9	10.6	1.7	23.1	27.1	43.5	16.4	100	19
10	556.894	40.0	18.1	3.8	24.8	37.1	46.0	8.9	100	1
11	723.522	43.1	18.9	4.6	24.1	42.5	46.0	3.5	100	211
12	928.166	34.1	21.2	5.3	23.0	37.6	46.0	8.4	100	1

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

RADIATED EMISSION

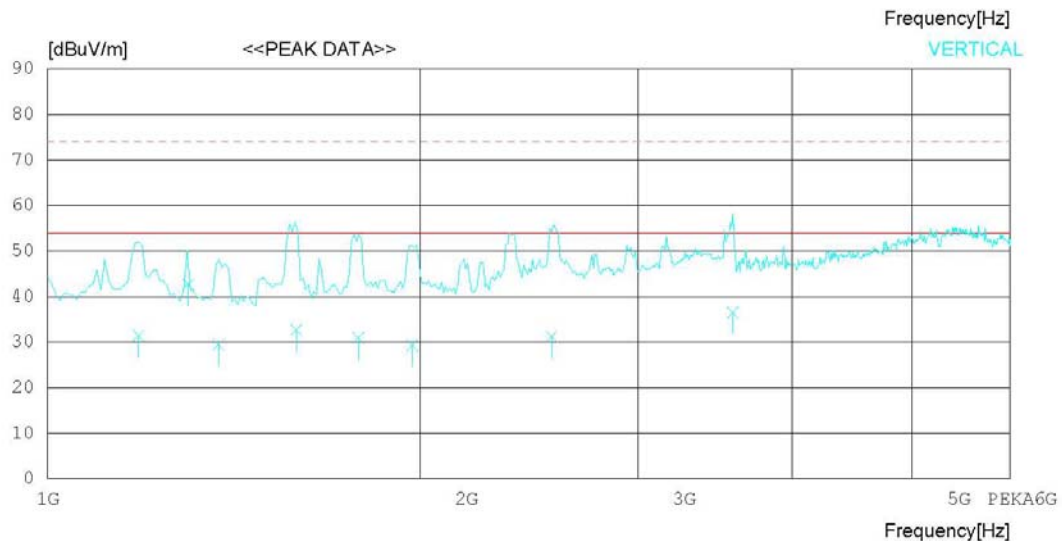
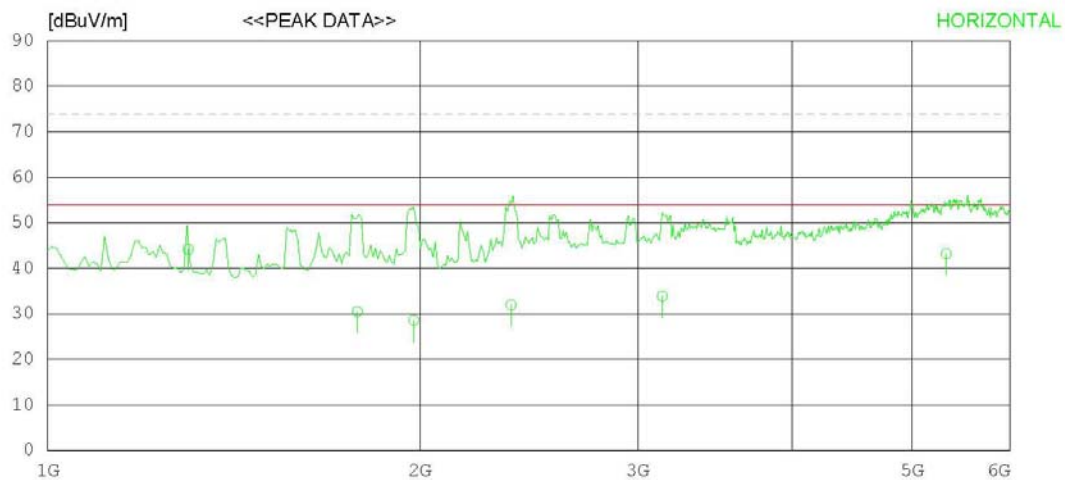
Date : 2013-01-12

Model Name : 32LN570B-UH
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 18 °C 31 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2013-01-12

Model Name	: 32LN570B-UH	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 18 °C 31 % 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 PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1299.650	41.6	24.3	6.8	28.5	44.2	54.0	9.8	100	171
2	1780.246	26.4	24.6	8.0	28.5	30.5	54.0	23.5	100	211
3	1977.564	24.1	24.6	8.4	28.5	28.6	54.0	25.4	100	1
4	2368.897	24.5	26.7	9.3	28.5	32.0	54.0	22.0	100	1
5	3139.439	22.5	29.0	10.8	28.4	33.9	54.0	20.1	100	250
6	5326.934	22.0	34.2	15.1	28.1	43.2	54.0	10.8	100	1
----- Vertical -----										
7	1184.321	29.3	24.2	6.4	28.5	31.4	54.0	22.6	100	207
8	1299.647	40.1	24.3	6.8	28.5	42.7	54.0	11.3	100	358
9	1374.510	26.4	24.5	7.1	28.5	29.5	54.0	24.5	100	358
10	1589.086	28.9	24.6	7.7	28.5	32.7	54.0	21.3	100	358
11	1783.083	26.8	24.6	8.0	28.5	30.9	54.0	23.1	100	238
12	1971.884	24.8	24.6	8.4	28.5	29.3	54.0	24.7	100	133
13	2557.400	22.3	27.6	9.7	28.4	31.2	54.0	22.8	100	358
14	3580.151	23.8	29.1	11.9	28.3	36.5	54.0	17.5	100	186

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

RADIATED EMISSION

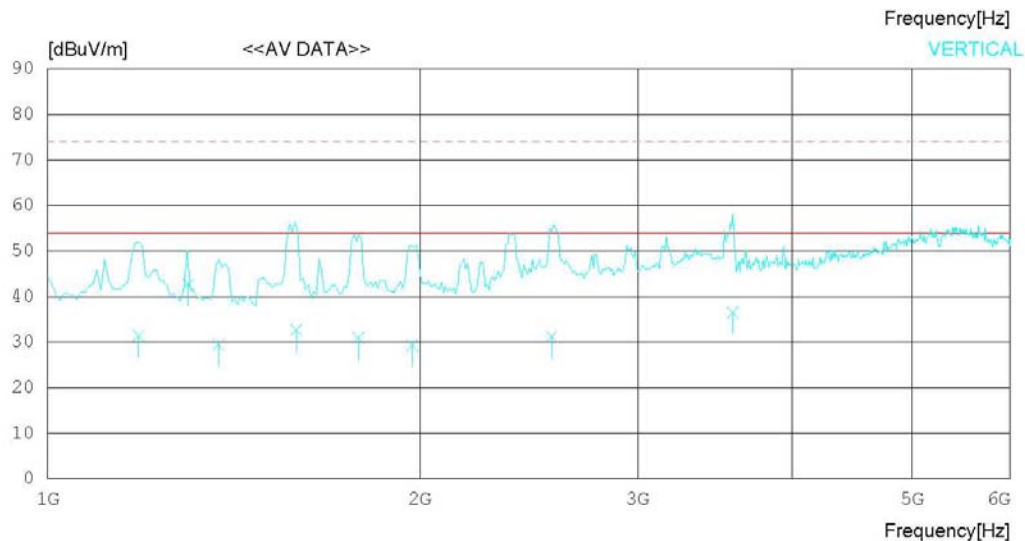
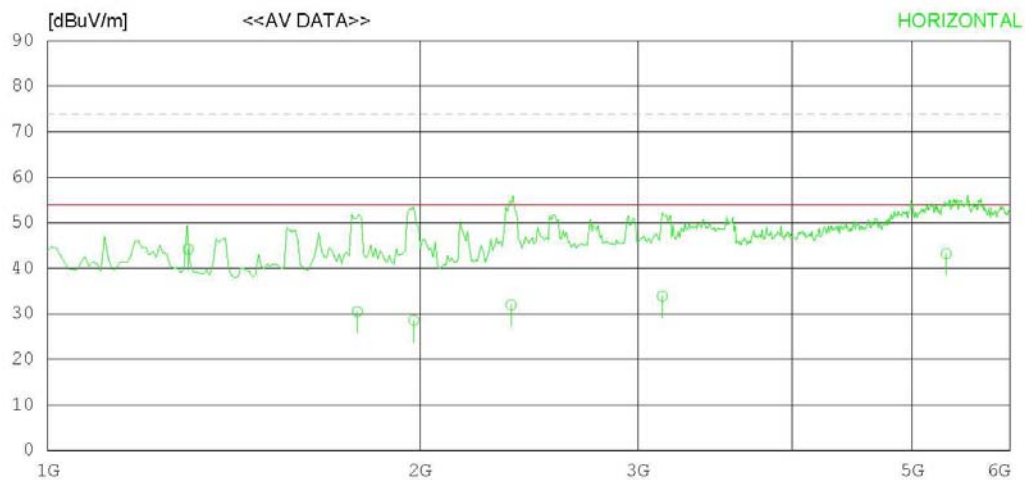
Date : 2013-01-12

Model Name : 32LN570B-UH
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 18 °C 31 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2013-01-12

Model Name	: 32LN570B-UH	Reference No.	:
Model No.	:	Power Supply	: 120V 60Hz
Serial No.	:	Temp/Humi	: 18 °C 31 % 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	1299.650	41.6	24.3	6.8	28.5	44.2	54.0	9.8	100	171
2	1780.246	26.4	24.6	8.0	28.5	30.5	54.0	23.5	100	211
3	1977.564	24.1	24.6	8.4	28.5	28.6	54.0	25.4	100	1
4	2368.897	24.5	26.7	9.3	28.5	32.0	54.0	22.0	100	1
5	3139.439	22.5	29.0	10.8	28.4	33.9	54.0	20.1	100	250
6	5326.934	22.0	34.2	15.1	28.1	43.2	54.0	10.8	100	1
----- Vertical -----										
7	1184.321	29.3	24.2	6.4	28.5	31.4	54.0	22.6	100	207
8	1299.647	40.1	24.3	6.8	28.5	42.7	54.0	11.3	100	358
9	1374.510	26.4	24.5	7.1	28.5	29.5	54.0	24.5	100	358
10	1589.086	28.9	24.6	7.7	28.5	32.7	54.0	21.3	100	358
11	1783.083	26.8	24.6	8.0	28.5	30.9	54.0	23.1	100	238
12	1971.884	24.8	24.6	8.4	28.5	29.3	54.0	24.7	100	133
13	2557.400	22.3	27.6	9.7	28.4	31.2	54.0	22.8	100	358
14	3580.151	23.8	29.1	11.9	28.3	36.5	54.0	17.5	100	186

< USB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

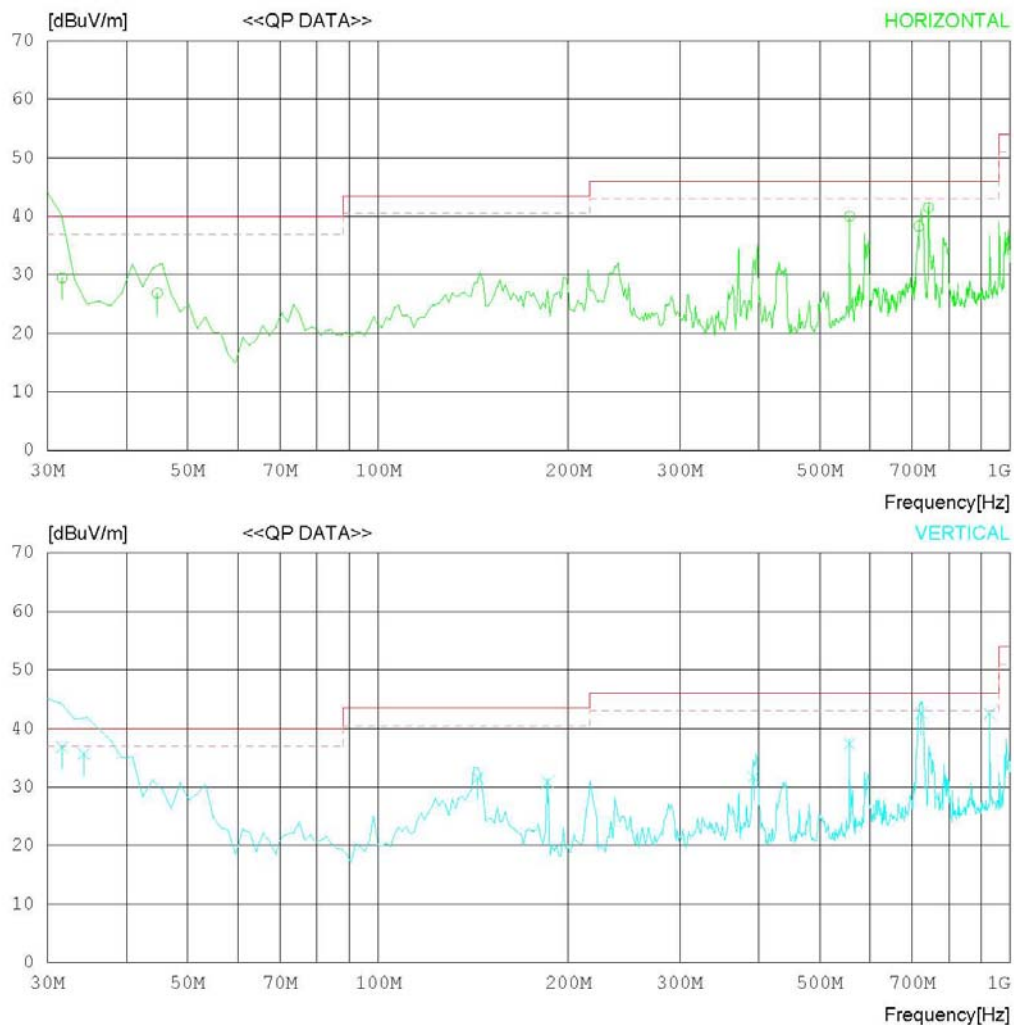
Date : 2013-01-11

Model Name : 32LN570B-UH
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 20 °C 31 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2013-01-11

Model Name : 32LN570B-UH	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 20 °C 31 % 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	31.650	34.8	17.0	0.9	23.2	29.5	40.0	10.5	100	186
2	44.767	34.9	13.8	1.1	22.9	26.9	40.0	13.1	219	358
3	556.901	42.9	18.1	3.8	24.8	40.0	46.0	6.0	100	358
4	716.538	39.0	18.8	4.6	24.1	38.3	46.0	7.7	200	165
5	742.506	41.7	19.2	4.6	24.0	41.5	46.0	4.5	100	121
----- Vertical -----										
6	31.651	42.1	17.0	0.9	23.2	36.8	40.0	3.2	199	315
7	34.250	42.1	15.7	1.0	23.1	35.7	40.0	4.3	100	1
8	392.803	36.7	15.9	3.5	24.4	31.7	46.0	14.3	100	241
9	143.759	42.1	10.8	1.7	23.0	31.6	43.5	11.9	100	25
10	185.639	42.3	9.7	2.2	23.3	30.9	43.5	12.6	100	199
11	556.881	40.3	18.1	3.8	24.8	37.4	46.0	8.6	100	98
12	723.302	43.2	18.9	4.6	24.1	42.6	46.0	3.4	100	185
13	928.154	39.0	21.2	5.3	23.0	42.5	46.0	3.5	100	155

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

RADIATED EMISSION

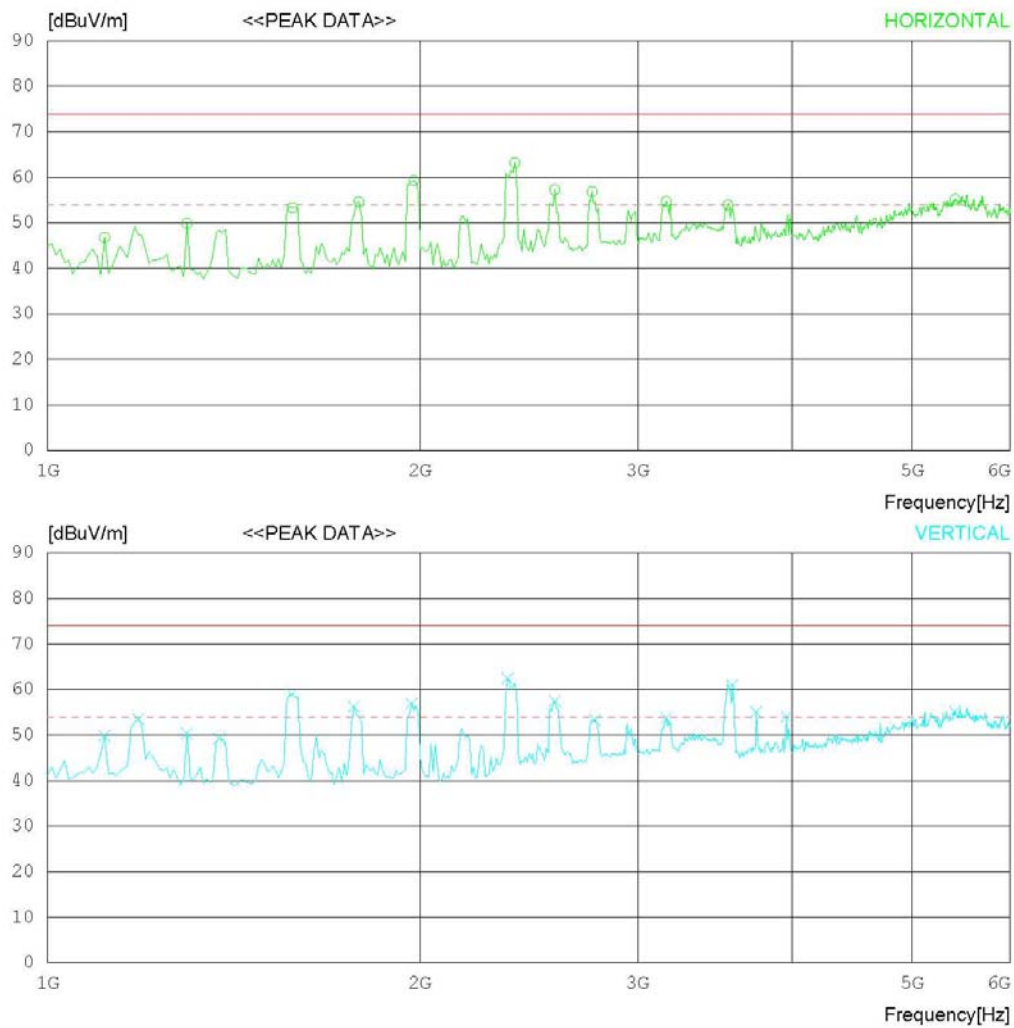
Date : 2013-01-12

Model Name : 32LN570B-UH
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 18 °C 31 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2013-01-12

Model Name : 32LN570B-UH	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 18 °C 31 % 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	1112.179	45.2	24.0	6.1	28.5	46.8	74.0	27.2	100	1
2	1296.474	47.2	24.3	6.8	28.5	49.8	74.0	24.2	100	1
3	1576.923	49.6	24.6	7.6	28.5	53.3	74.0	20.7	100	166
4	1785.256	50.5	24.6	8.0	28.5	54.6	74.0	19.4	100	1
5	1977.564	54.8	24.6	8.4	28.5	59.3	74.0	14.7	100	1
6	2386.223	55.6	26.8	9.3	28.5	63.2	74.0	10.8	100	219
7	2570.520	48.3	27.7	9.7	28.4	57.3	74.0	16.7	100	1
8	2754.818	47.0	28.2	10.0	28.4	56.8	74.0	17.2	100	186
9	3163.478	43.3	28.9	10.9	28.4	54.7	74.0	19.3	100	233
10	3548.099	41.4	29.0	11.8	28.3	53.9	74.0	20.1	100	241
11	5415.074	33.8	34.6	14.9	28.1	55.2	74.0	18.8	100	1
----- Vertical -----										
12	1112.179	48.2	24.0	6.1	28.5	49.8	74.0	24.2	100	186
13	1184.295	51.4	24.2	6.4	28.5	53.5	74.0	20.5	100	186
14	1296.474	47.8	24.3	6.8	28.5	50.4	74.0	23.6	100	203
15	1376.602	46.1	24.5	7.1	28.5	49.2	74.0	24.8	100	358
16	1576.923	55.3	24.6	7.6	28.5	59.0	74.0	15	100	212
17	1769.230	52.2	24.6	8.0	28.5	56.3	74.0	17.7	100	358
18	1969.551	52.4	24.6	8.4	28.5	56.9	74.0	17.1	100	188
19	2354.171	55.1	26.6	9.2	28.5	62.4	74.0	11.6	100	358
20	2570.520	48.5	27.7	9.7	28.4	57.5	74.0	16.5	100	166
21	2770.844	43.3	28.3	10.1	28.4	53.3	74.0	20.7	100	214
22	3163.478	42.3	28.9	10.9	28.4	53.7	74.0	20.3	100	358
23	3580.151	48.2	29.1	11.9	28.3	60.9	74.0	13.1	100	358
24	3740.409	41.5	29.5	12.3	28.3	55.0	74.0	19	100	358
25	3956.759	39.5	30.0	12.8	28.3	54.0	74.0	20	100	194
26	5415.074	33.7	34.6	14.9	28.1	55.1	74.0	18.9	100	322

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

RADIATED EMISSION

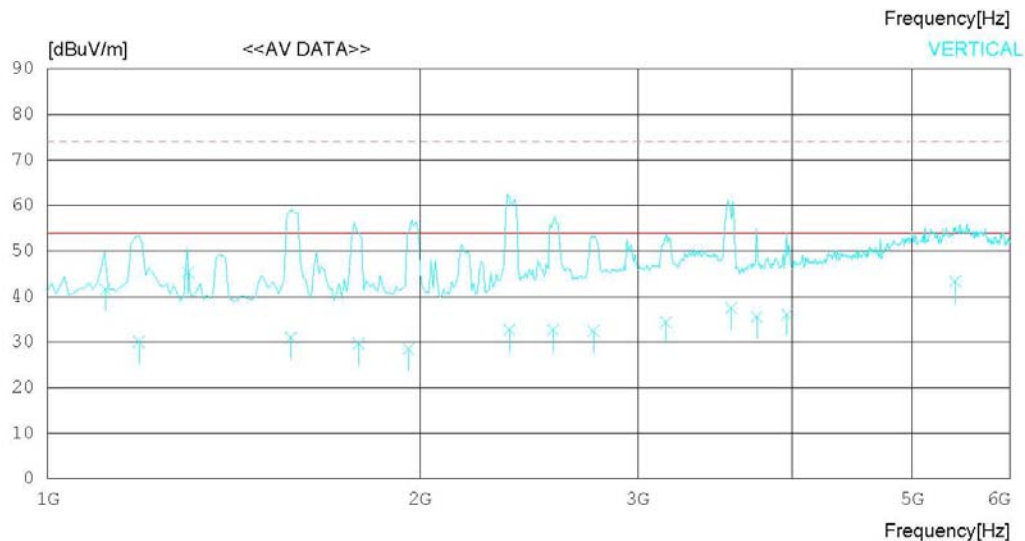
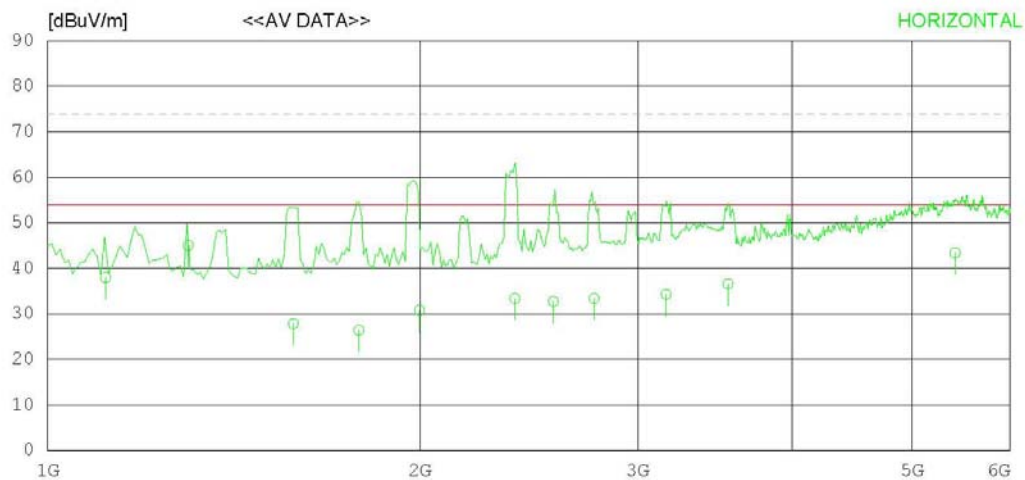
Date : 2013-01-12

Model Name : 32LN570B-UH
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi : 18 °C 31 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2013-01-12

Model Name : 32LN570B-UH	Reference No. :
Model No. :	Power Supply : 120V 60Hz
Serial No. :	Temp/Humi : 18 °C 31 % 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	1113.817	36.4	24.0	6.1	28.5	38.0	54.0	16.0	100	180
2	1299.438	42.4	24.3	6.8	28.5	45.0	54.0	9.0	100	165
3	1579.894	24.0	24.6	7.7	28.5	27.8	54.0	26.2	100	166
4	1785.256	22.3	24.6	8.0	28.5	26.4	54.0	27.6	100	1
5	1998.265	26.3	24.6	8.4	28.5	30.8	54.0	23.2	100	1
6	2386.198	25.8	26.8	9.3	28.5	33.4	54.0	20.6	100	219
7	2562.987	23.8	27.6	9.7	28.4	32.7	54.0	21.3	100	187
8	2765.858	23.4	28.3	10.1	28.4	33.4	54.0	20.6	100	186
9	3162.000	22.9	28.9	10.9	28.4	34.3	54.0	19.7	100	233
10	3548.099	24.1	29.0	11.8	28.3	36.6	54.0	17.4	100	241
11	5415.074	22.0	34.6	14.9	28.1	43.4	54.0	10.6	100	94
----- Vertical -----										
12	1113.817	40.0	24.0	6.1	28.5	41.6	54.0	12.4	100	186
13	1185.321	28.0	24.2	6.4	28.5	30.1	54.0	23.9	100	186
14	1299.437	42.7	24.3	6.8	28.5	45.3	54.0	8.7	100	188
15	1571.994	27.3	24.6	7.6	28.5	31.0	54.0	23.0	100	212
16	1784.465	25.6	24.6	8.0	28.5	29.7	54.0	24.3	100	74
17	1958.609	24.0	24.6	8.4	28.5	28.5	54.0	25.5	100	188
18	2363.855	25.3	26.7	9.2	28.5	32.7	54.0	21.3	100	241
19	2562.788	23.8	27.6	9.7	28.4	32.7	54.0	21.3	100	166
20	2761.718	22.5	28.3	10.0	28.4	32.4	54.0	21.6	100	214
21	3160.455	23.0	28.9	10.9	28.4	34.4	54.0	19.6	100	180
22	3570.064	24.8	29.1	11.9	28.3	37.5	54.0	16.5	100	358
23	3743.198	22.1	29.5	12.3	28.3	35.6	54.0	18.4	100	358
24	3959.923	21.6	30.0	12.8	28.3	36.1	54.0	17.9	100	194
25	5415.074	22.0	34.6	14.9	28.1	43.4	54.0	10.6	100	322

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
☒ 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
☒ BILOG ANTENNA	CBL6112B	SCHAFFNER	2737	2012.03.22	2014.03.22
☐ 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