

EMC TEST REPORT

Test item : LED TV Monitor
Model No. : 32LT777H-UA
Order No. : DEMC1303-00888
Date of receipt : 2013-03-05
Test duration : 2013-03-11 ~ 2013-03-13
Use of report : FCC CoC Marking
Date of Issue : 2013-03-19

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 : 20 °C,
Humidity : (38 ~ 39) % 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.

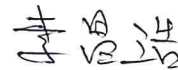
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Tested by:



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.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.	32LT777H-UA
EUT Type	LED TV Monitor
Serial No	NONE
FCC ID	BEJ32LT777HUA
Type of Sample Tested	Pre-Production
High Frequency	800 MHz
Rating	AC 100-240 V~ 50/60 Hz, 0.6 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

RGB (PC), HDMI (PC) supported mode

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
640 x 350	31.46	70.09
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
1280 x 1024 HDMI-PC	63.98	60.02
1920 x 1080 RGB-PC	67.50	60.00
1920 x 1080 HDMI-PC	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	03-12	20	38
Radiated Disturbance	03-11 03-13	20 20	39 39

4.3 Test result Summary

(1) Conducted Emission (HDMI MODE, USB MODE)

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
0.32228	N	42.5	Quasi-Peak	59.6	17.1
0.32188	N	42.6	Quasi-Peak	59.7	17.1

(2) Radiated Emission (HDMI MODE)

Frequency [MHz]	Pol.	Result [dB(μ V/m)]	Detector	Limit [dB(μ V/m)]	Margin [dB]
768.382	V	43.0	Quasi-Peak	46.0	3.0

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' Pattern mode, 1920 x 1080 Resolution (Worst case)
- HDMI MODE : "H" Pattern mode, 1920 x 1080 Resolution (Worst case)
- "H" characters scrolling is displayed on the EUT's screen.
- USB MODE : Play video file in USB memory on the EUT's screen.

5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE				Backshell	FCC ID
				Connect type	Length (m)	ferrite core	shield		
PC	VOSTR O460	7L7JXBX	DELL INC.	POWER	1.8	Not use	Non-shield	Plastic	DOC
				HDMI	1.8	Not use	Shield		
				USB	1.8	Not use	Shield		
				USB	1.8	Not use	Shield		
				USB	1.5	Not use	Shield		
				DSUB	1.6	Not use	Shield		
KEYBOARD	SKG-3000UB	TAKB60 1231H	MONITEREY INTERNATIONAL CORP.	USB	1.8	Not use	Shield	Plastic	DOC
MOUSE	1484	3527000 21374	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	-	Not use	-	-	DOC
PRINTER	Aculaser M1200	LWTZ181070	EPSON	POWER USB	1.8 1.5	Not use	Shield Non-shield	Plastic	DOC
HEADSET	COV903	NONE	COSY	HEAD PHONE	2.5	Not use	Non-shield	Plastic	DOC
REMOTE CONTROL	AKB732 75673	N/A	HANSUNG ELECTRONICS CO., LTD	-	-	-	-	-	-

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

< DSUB MODE >



Results of Conducted Emission

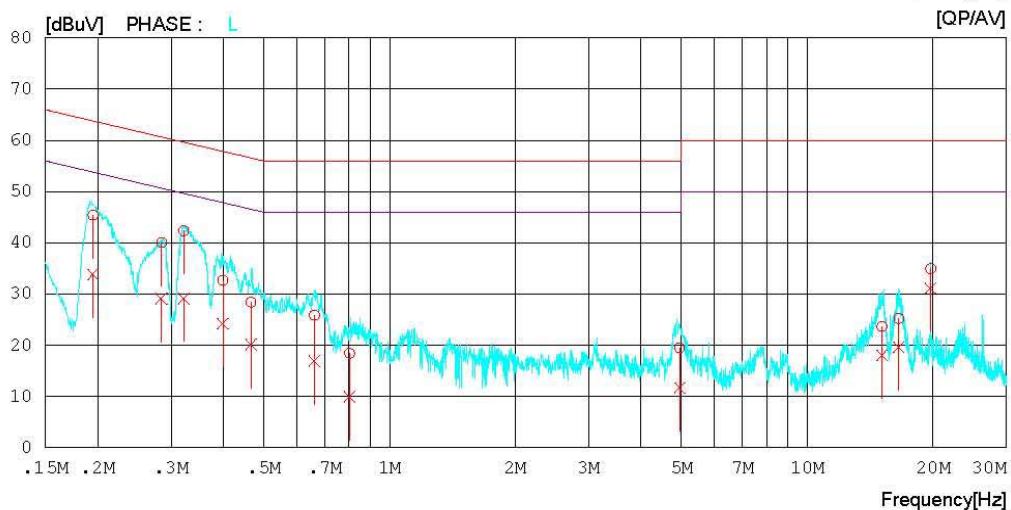
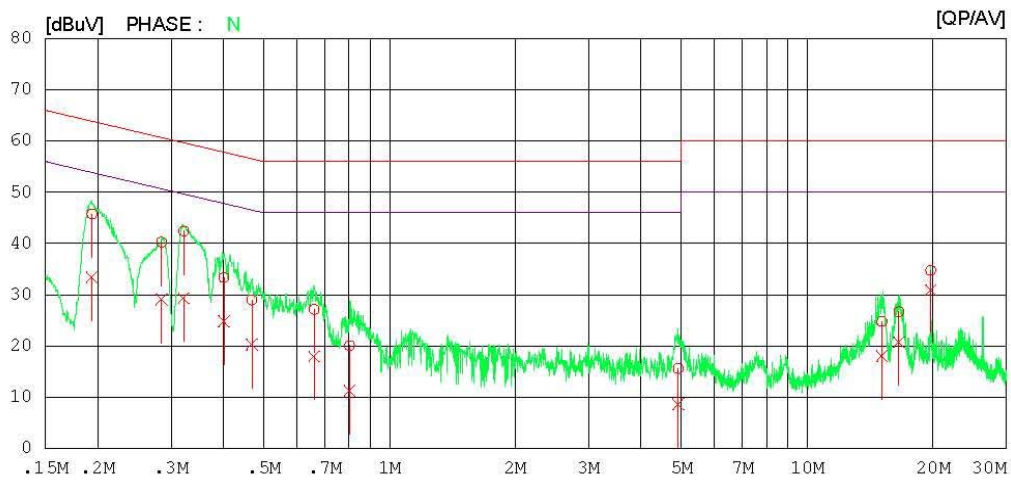
Digital EMC
Date : 2013-03-12

Model No. : 32LT777H-UA
Type :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 20 °C 38 %R.H
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-03-12

Model No. : 32LT777H-UA
Type :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 20 °C 38 %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	0.19399	44.4	32.1	1.3	45.7	33.4	63.9	53.9	18.2	20.5	N
2	0.28484	39.3	28.2	0.9	40.2	29.1	60.7	50.7	20.5	21.6	N
3	0.32191	41.5	28.4	0.9	42.4	29.3	59.7	49.7	17.3	20.4	N
4	0.40129	32.5	24.0	0.8	33.3	24.8	57.8	47.8	24.5	23.0	N
5	0.46810	28.2	19.6	0.7	28.9	20.3	56.5	46.5	27.6	26.2	N
6	0.66030	26.5	17.3	0.6	27.1	17.9	56.0	46.0	28.9	28.1	N
7	0.80291	19.5	10.8	0.5	20.0	11.3	56.0	46.0	36.0	34.7	N
8	4.91050	15.4	8.4	0.2	15.6	8.6	56.0	46.0	40.4	37.4	N
9	15.10650	24.4	17.6	0.4	24.8	18.0	60.0	50.0	35.2	32.0	N
10	16.56400	26.3	20.4	0.4	26.7	20.8	60.0	50.0	33.3	29.2	N
11	19.75300	34.3	30.4	0.5	34.8	30.9	60.0	50.0	25.2	19.1	N
12	0.19504	44.1	32.5	1.3	45.4	33.8	63.8	53.8	18.4	20.0	L
13	0.28473	39.1	28.2	0.9	40.0	29.1	60.7	50.7	20.7	21.6	L
14	0.32186	41.4	28.3	0.9	42.3	29.2	59.7	49.7	17.4	20.5	L
15	0.39925	31.9	23.4	0.8	32.7	24.2	57.9	47.9	25.2	23.7	L
16	0.46595	27.7	19.5	0.7	28.4	20.2	56.6	46.6	28.2	26.4	L
17	0.66134	25.3	16.4	0.6	25.9	17.0	56.0	46.0	30.1	29.0	L
18	0.80291	17.9	9.5	0.5	18.4	10.0	56.0	46.0	37.6	36.0	L
19	4.95500	19.3	11.5	0.2	19.5	11.7	56.0	46.0	36.5	34.3	L
20	15.10200	23.3	17.7	0.4	23.7	18.1	60.0	50.0	36.3	31.9	L
21	16.55850	24.8	19.2	0.4	25.2	19.6	60.0	50.0	34.8	30.4	L
22	19.75250	34.5	30.7	0.5	35.0	31.2	60.0	50.0	25.0	18.8	L

< HDMI MODE >



Results of Conducted Emission

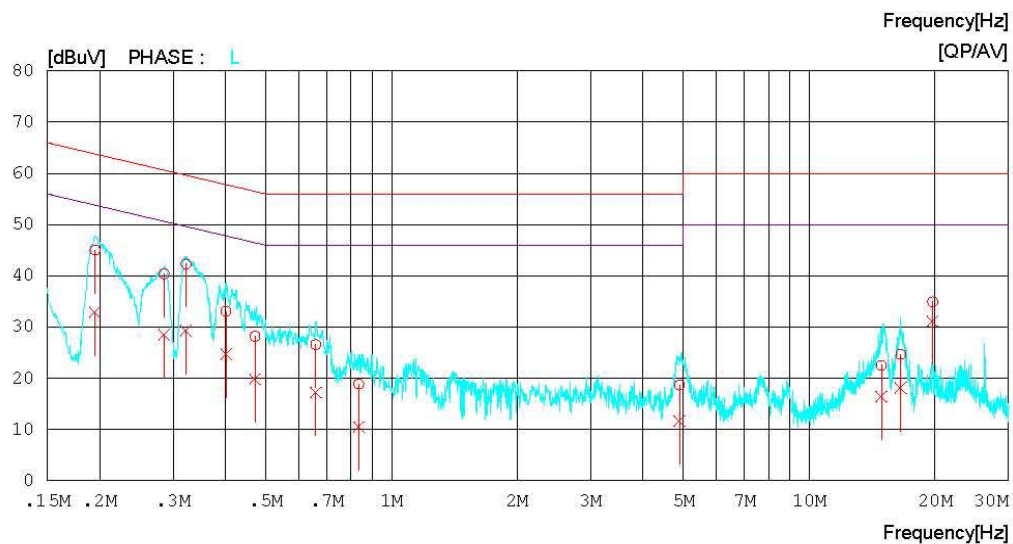
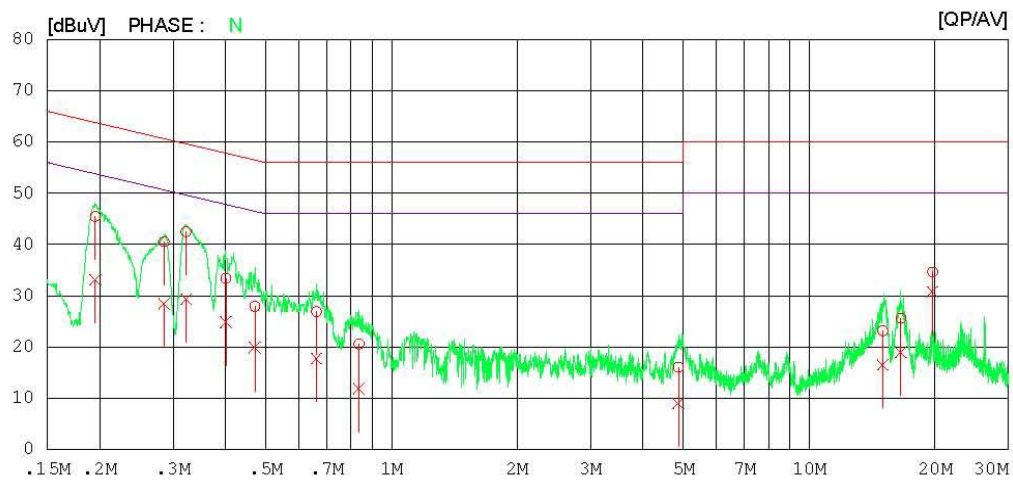
Digital EMC
Date : 2013-03-12

Model No. : 32LT777H-UA
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 20 °C 38 %R.H
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-03-12

Model No. : 32LT777H-UA
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 20 °C 38 %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	0.19533	44.2	31.8	1.3	45.5	33.1	63.8	53.8	18.3	20.7	N
2	0.28550	39.6	27.6	0.9	40.5	28.5	60.7	50.7	20.2	22.2	N
3	0.32228	41.6	28.4	0.9	42.5	29.3	59.6	49.6	17.1	20.3	N
4	0.40134	32.6	24.0	0.8	33.4	24.8	57.8	47.8	24.4	23.0	N
5	0.47083	27.2	19.2	0.7	27.9	19.9	56.5	46.5	28.6	26.6	N
6	0.66123	26.3	17.1	0.6	26.9	17.7	56.0	46.0	29.1	28.3	N
7	0.83575	20.1	11.4	0.5	20.6	11.9	56.0	46.0	35.4	34.1	N
8	4.86150	15.8	8.8	0.2	16.0	9.0	56.0	46.0	40.0	37.0	N
9	15.00450	22.7	16.1	0.4	23.1	16.5	60.0	50.0	36.9	33.5	N
10	16.57150	25.2	18.6	0.4	25.6	19.0	60.0	50.0	34.4	31.0	N
11	19.75200	34.1	30.3	0.5	34.6	30.8	60.0	50.0	25.4	19.2	N
12	0.19515	43.7	31.6	1.3	45.0	32.9	63.8	53.8	18.8	20.9	L
13	0.28550	39.5	27.6	0.9	40.4	28.5	60.7	50.7	20.3	22.2	L
14	0.32216	41.4	28.4	0.9	42.3	29.3	59.7	49.7	17.4	20.4	L
15	0.40180	32.3	24.0	0.8	33.1	24.8	57.8	47.8	24.7	23.0	L
16	0.47124	27.5	19.1	0.7	28.2	19.8	56.5	46.5	28.3	26.7	L
17	0.65930	26.0	16.7	0.6	26.6	17.3	56.0	46.0	29.4	28.7	L
18	0.83540	18.4	10.0	0.5	18.9	10.5	56.0	46.0	37.1	35.5	L
19	4.89400	18.5	11.4	0.2	18.7	11.6	56.0	46.0	37.3	34.4	L
20	14.88900	22.1	16.1	0.4	22.5	16.5	60.0	50.0	37.5	33.5	L
21	16.56950	24.3	17.7	0.4	24.7	18.1	60.0	50.0	35.3	31.9	L
22	19.75150	34.4	30.7	0.5	34.9	31.2	60.0	50.0	25.1	18.8	L

< USB MODE >



Results of Conducted Emission

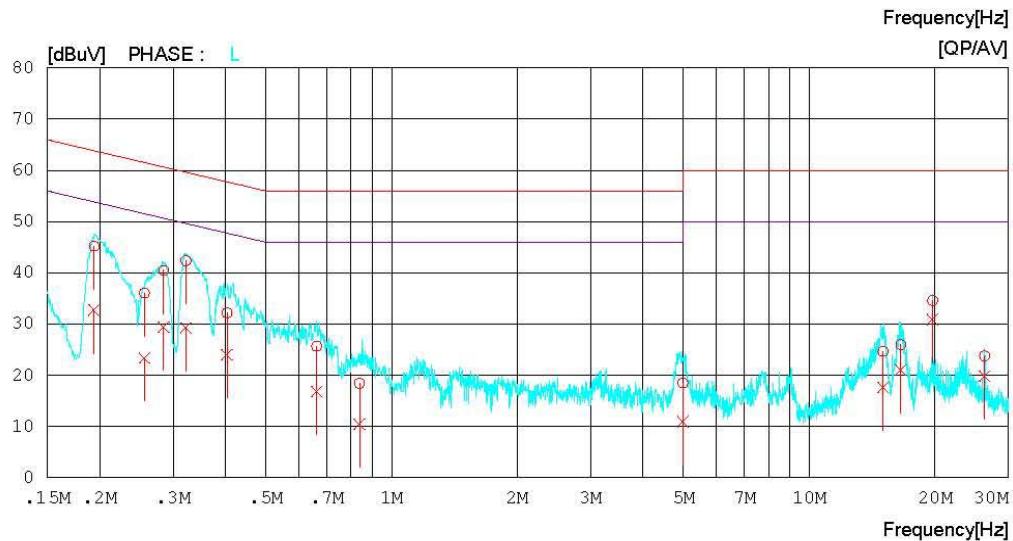
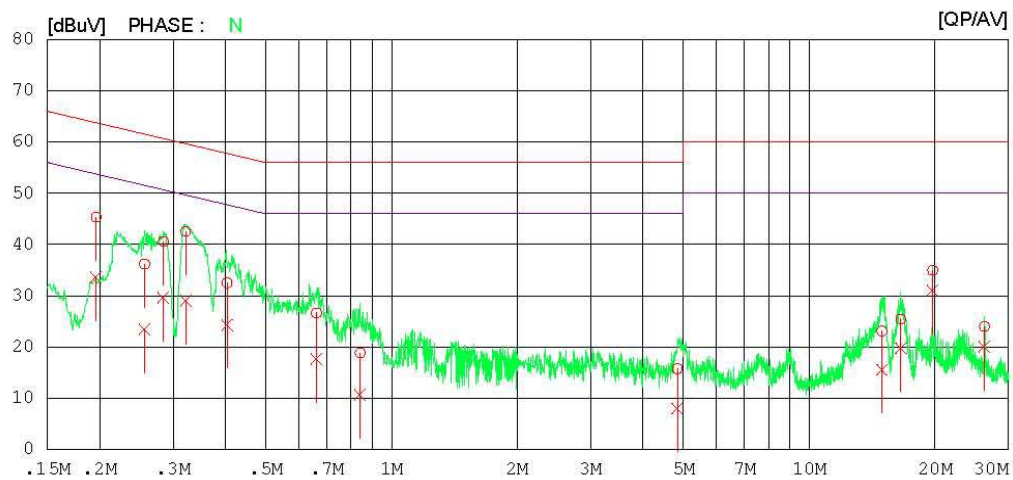
Digital EMC
Date : 2013-03-12

Model No. : 32LT777H-UA
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 20 °C 38 %R.H
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-03-12

Model No. : 32LT777H-UA
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 20 °C 38 %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	0.19634	44.0	32.3	1.3	45.3	33.6	63.8	53.8	18.5	20.2	N
2	0.25644	35.2	22.4	1.0	36.2	23.4	61.5	51.5	25.3	28.1	N
3	0.28438	39.7	28.7	0.9	40.6	29.6	60.7	50.7	20.1	21.1	N
4	0.32188	41.7	28.1	0.9	42.6	29.0	59.7	49.7	17.1	20.7	N
5	0.40388	31.7	23.5	0.8	32.5	24.3	57.8	47.8	25.3	23.5	N
6	0.66150	26.0	17.0	0.6	26.6	17.6	56.0	46.0	29.4	28.4	N
7	0.84164	18.3	10.1	0.5	18.8	10.6	56.0	46.0	37.2	35.4	N
8	4.83650	15.6	7.8	0.2	15.8	8.0	56.0	46.0	40.2	38.0	N
9	14.92950	22.7	15.1	0.4	23.1	15.5	60.0	50.0	36.9	34.5	N
10	16.56450	25.0	19.3	0.4	25.4	19.7	60.0	50.0	34.6	30.3	N
11	19.75200	34.5	30.5	0.5	35.0	31.0	60.0	50.0	25.0	19.0	N
12	26.28850	23.6	19.6	0.4	24.0	20.0	60.0	50.0	36.0	30.0	N
13	0.19418	43.9	31.4	1.3	45.2	32.7	63.9	53.9	18.7	21.2	L
14	0.25621	35.0	22.4	1.0	36.0	23.4	61.6	51.6	25.6	28.2	L
15	0.28473	39.6	28.5	0.9	40.5	29.4	60.7	50.7	20.2	21.3	L
16	0.32210	41.5	28.3	0.9	42.4	29.2	59.7	49.7	17.3	20.5	L
17	0.40381	31.4	23.2	0.8	32.2	24.0	57.8	47.8	25.6	23.8	L
18	0.66191	25.1	16.3	0.6	25.7	16.9	56.0	46.0	30.3	29.1	L
19	0.83820	17.9	10.0	0.5	18.4	10.5	56.0	46.0	37.6	35.5	L
20	4.98400	18.3	10.8	0.2	18.5	11.0	56.0	46.0	37.5	35.0	L
21	15.02850	24.3	17.2	0.4	24.7	17.6	60.0	50.0	35.3	32.4	L
22	16.55350	25.6	20.6	0.4	26.0	21.0	60.0	50.0	34.0	29.0	L
23	19.75150	34.1	30.4	0.5	34.6	30.9	60.0	50.0	25.4	19.1	L
24	26.28800	23.4	19.4	0.4	23.8	19.8	60.0	50.0	36.2	30.2	L

6.2 Radiated Disturbance

6.2.1 Measurement Procedure

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

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

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

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

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

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

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

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

6.2.2 Limit for Radiated Disturbance

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

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

(1) Limit for Radiated Emission below 1 000MHz

Frequency range (MHz)	Class A Equipment (10 m distance)	Class B Equipment (3 m distance)
	Quasi-peak (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

< DSUB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

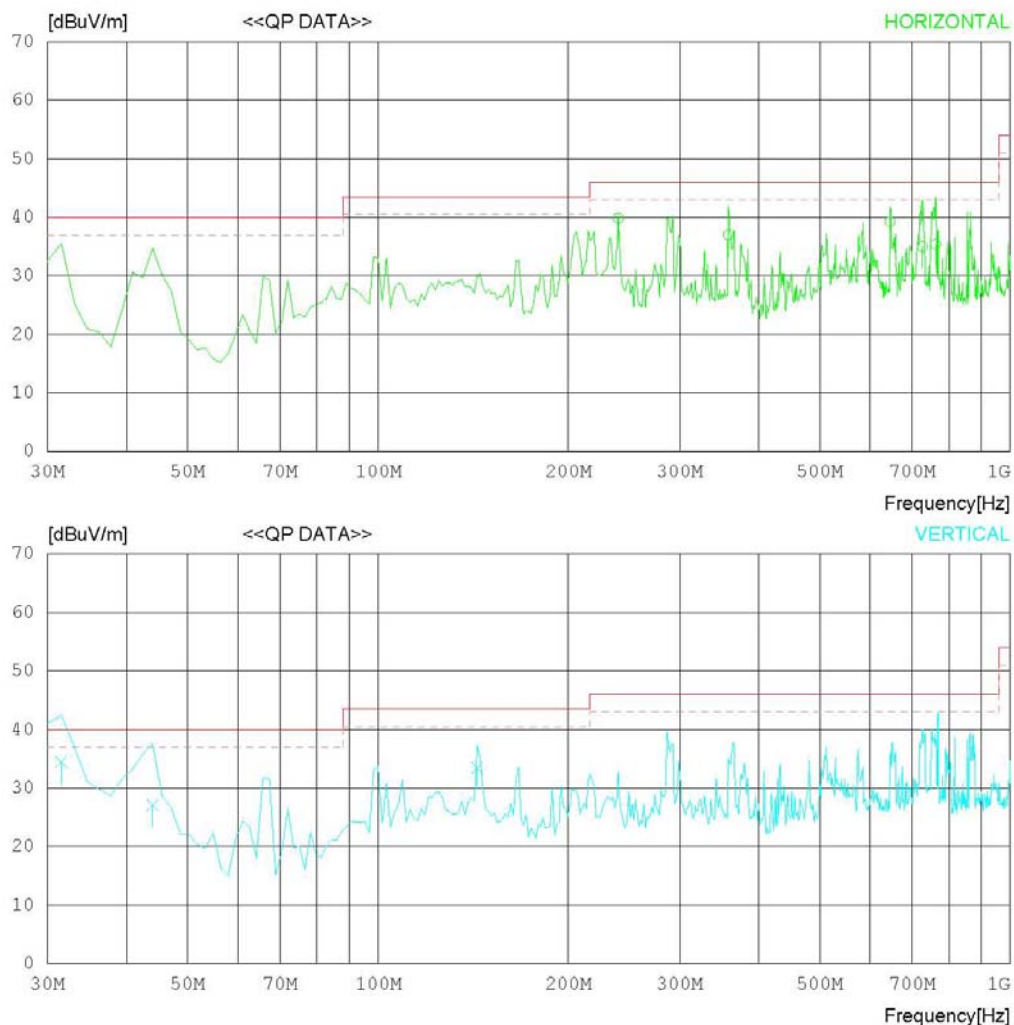
Date : 2013-03-11

Model Name : 32LT777H-UA
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2013-03-11

Model Name : 32LT777H-UA
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % R.H
Operator :

Memo :

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

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	239.856	49.0	12.1	2.5	23.8	39.8	46.0	6.2	100	120
2	357.996	42.1	15.1	3.4	23.6	37.0	46.0	9.0	100	174
3	645.577	40.0	18.6	4.2	23.6	39.2	46.0	6.8	226	0
4	726.411	35.2	18.9	4.6	23.7	35.0	46.0	11.0	100	183
5	762.164	34.9	19.4	4.7	23.6	35.4	46.0	10.6	166	0
----- Vertical -----										
6	31.554	40.2	17.1	0.9	23.8	34.4	40.0	5.6	100	133
7	43.990	36.5	13.7	1.1	24.2	27.1	40.0	12.9	194	332
8	143.478	45.2	10.8	1.7	24.2	33.5	43.5	10.0	100	0

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

RADIATED EMISSION

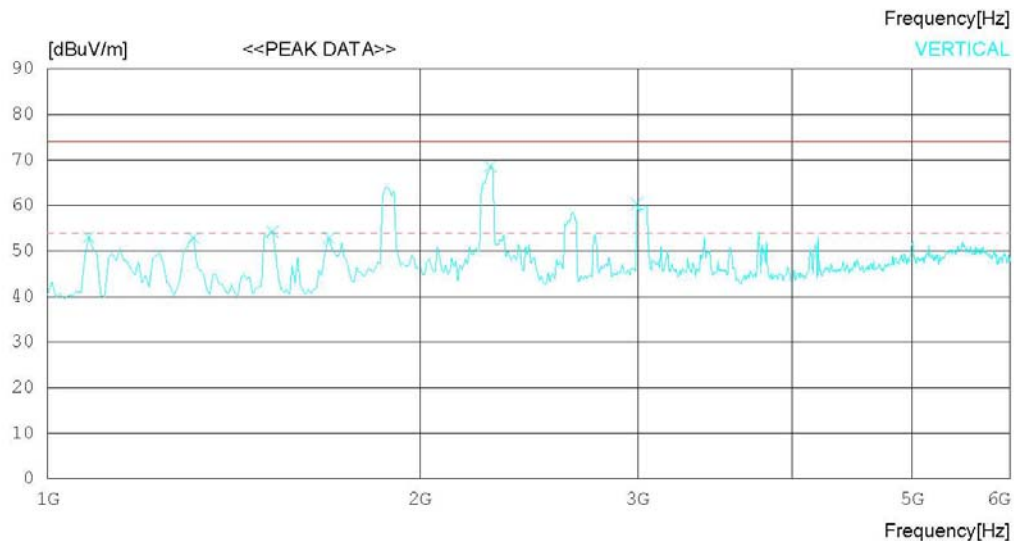
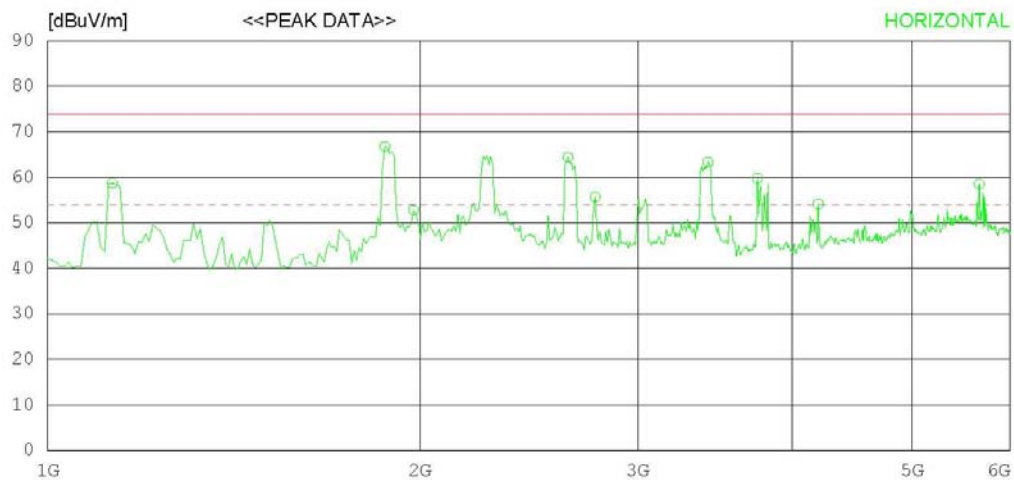
Date : 2013-03-13

Model Name : 32LT777H-UA
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % 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 : 2013-03-13

Model Name : 32LT777H-UA	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	1128.205	69.7	24.1	3.5	38.6	58.7	74.0	15.3	100	358
2	1873.397	75.3	24.6	4.6	37.7	66.8	74.0	7.2	100	236
3	1977.564	61.1	24.6	4.7	37.6	52.8	74.0	21.2	100	358
4	2634.624	68.4	27.9	5.4	37.3	64.4	74.0	9.6	100	246
5	2770.844	59.2	28.3	5.5	37.3	55.7	74.0	18.3	100	167
6	3419.892	65.4	28.9	6.1	37.1	63.3	74.0	10.7	100	358
7	3748.422	60.7	29.5	6.4	36.8	59.8	74.0	14.2	100	249
8	4197.144	53.3	30.4	6.9	36.5	54.1	74.0	19.9	100	358
9	5663.467	52.7	34.0	8.1	36.3	58.5	74.0	15.5	100	358
----- Vertical -----										
10	1080.128	64.2	24.0	3.5	38.7	53.0	74.0	21	100	190
11	1312.500	62.9	24.4	3.8	38.2	52.9	74.0	21.1	100	190
12	1520.833	63.5	24.6	4.1	37.9	54.3	74.0	19.7	100	221
13	1689.102	61.8	24.6	4.3	37.8	52.9	74.0	21.1	100	1
14	2282.054	74.8	26.2	5.0	37.4	68.6	74.0	5.4	100	227
15	2995.206	63.0	29.0	5.7	37.3	60.4	74.0	13.6	100	1

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

RADIATED EMISSION

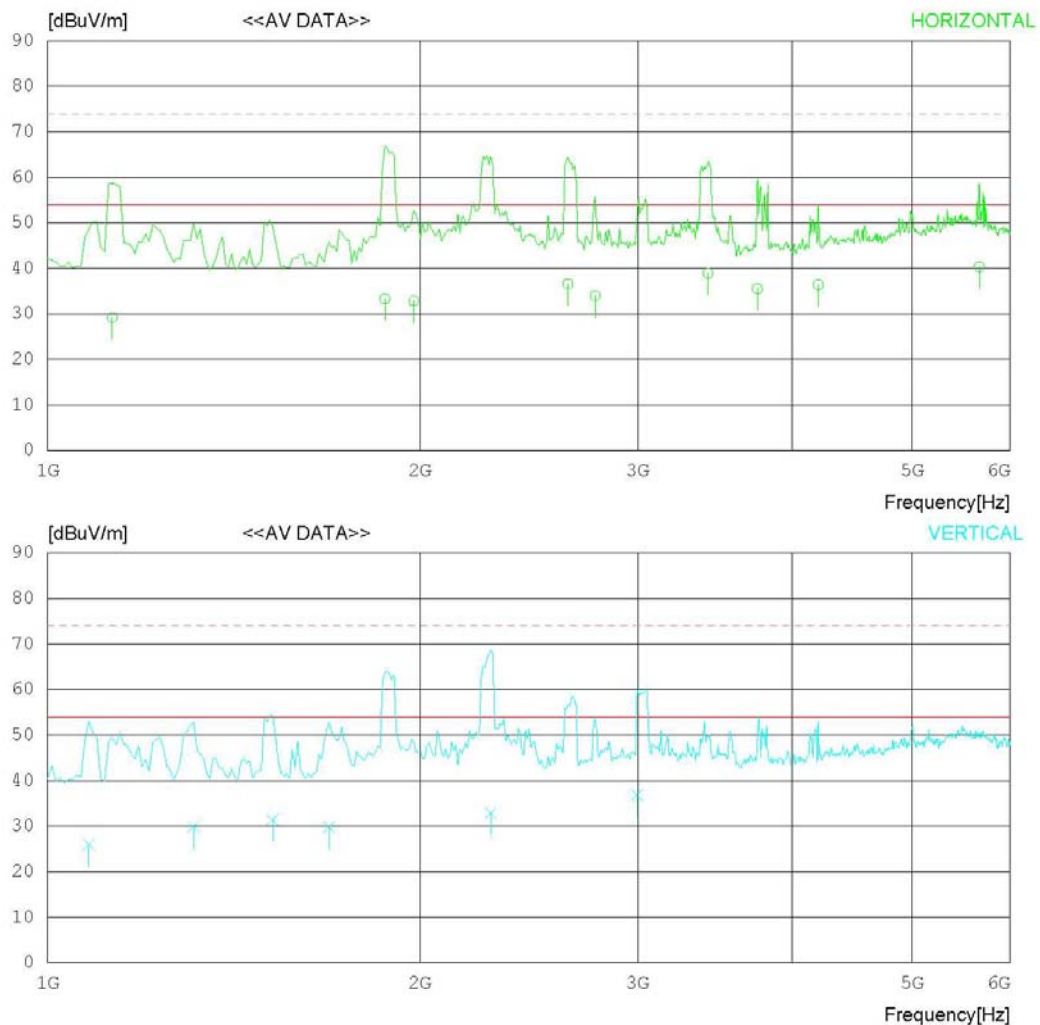
Date : 2013-03-13

Model Name : 32LT777H-UA
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % 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 : 2013-03-13

Model Name : 32LT777H-UA
Model No. :
Serial No. :
Test Condition : DSUB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % R.H
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	1128.205	40.2	24.1	3.5	38.6	29.2	54.0	24.8	100	358
2	1873.397	41.8	24.6	4.6	37.7	33.3	54.0	20.7	100	236
3	1977.564	41.1	24.6	4.7	37.6	32.8	54.0	21.2	100	358
4	2634.624	40.6	27.9	5.4	37.3	36.6	54.0	17.4	100	246
5	2770.844	37.5	28.3	5.5	37.3	34.0	54.0	20.0	100	167
6	3419.892	41.0	28.9	6.1	37.1	38.9	54.0	15.1	100	358
7	3748.422	36.4	29.5	6.4	36.8	35.5	54.0	18.5	100	249
8	4197.144	35.6	30.4	6.9	36.5	36.4	54.0	17.6	100	358
9	5663.467	34.5	34.0	8.1	36.3	40.3	54.0	13.7	100	358
----- Vertical -----										
10	1080.128	37.2	24.0	3.5	38.7	26.0	54.0	28.0	100	190
11	1312.500	39.9	24.4	3.8	38.2	29.9	54.0	24.1	100	190
12	1520.833	40.6	24.6	4.1	37.9	31.4	54.0	22.6	100	221
13	1689.102	38.7	24.6	4.3	37.8	29.8	54.0	24.2	100	1
14	2282.054	39.1	26.2	5.0	37.4	32.9	54.0	21.1	100	227
15	2995.206	39.4	29.0	5.7	37.3	36.8	54.0	17.2	100	1

< HDMI MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

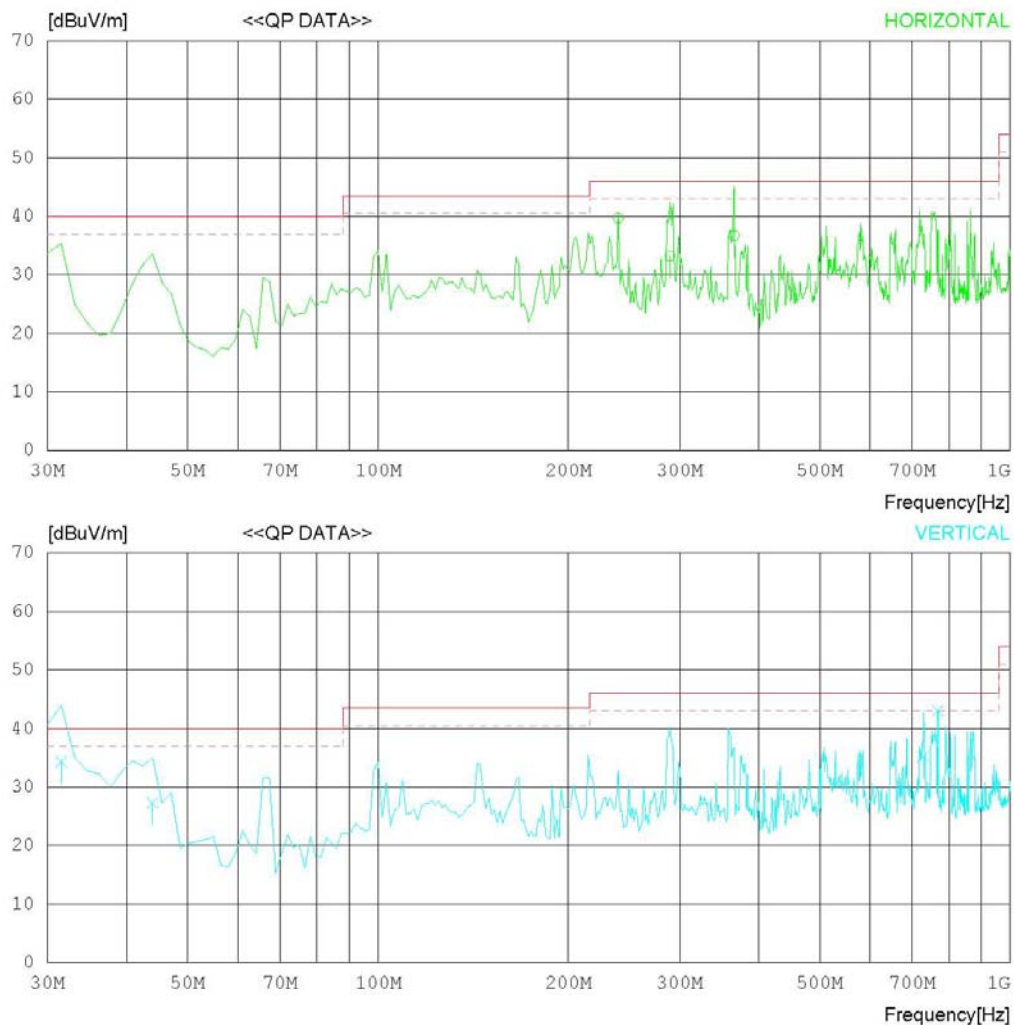
Date : 2013-03-11

Model Name : 32LT777H-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2013-03-11

Model Name : 32LT777H-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % R.H
Operator :

Memo :

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

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	239.856	48.9	12.1	2.5	23.8	39.7	46.0	6.3	100	131
2	289.599	40.6	13.5	2.8	23.7	33.2	46.0	12.8	100	137
3	365.769	41.6	15.3	3.4	23.6	36.7	46.0	9.3	100	358
----- Vertical -----										
4	31.554	40.1	17.1	0.9	23.8	34.3	40.0	5.7	100	1
5	43.990	36.7	13.7	1.1	24.2	27.3	40.0	12.7	194	358
6	729.520	35.3	19.0	4.6	23.7	35.2	46.0	10.8	100	158
7	768.382	42.4	19.5	4.7	23.6	43.0	46.0	3.0	100	100

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

RADIATED EMISSION

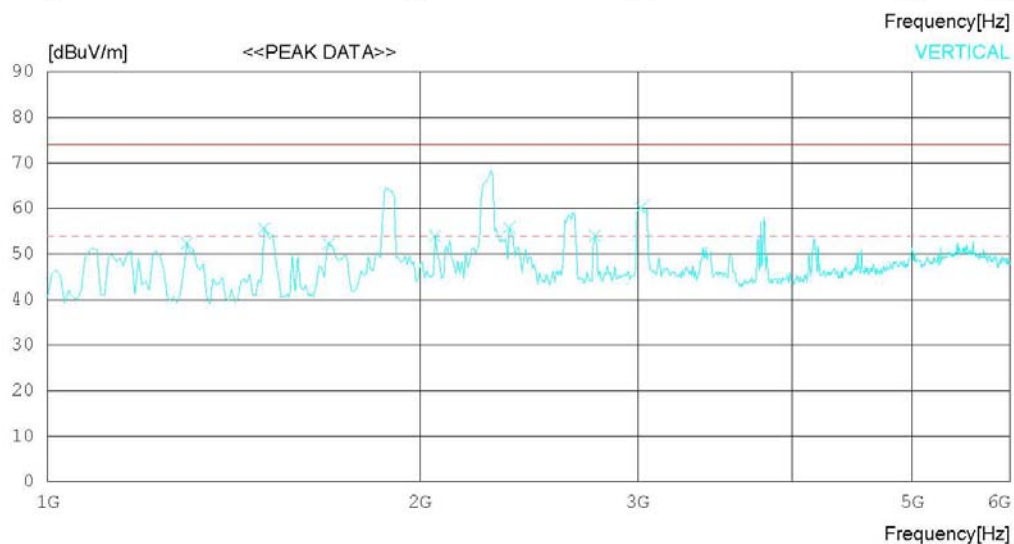
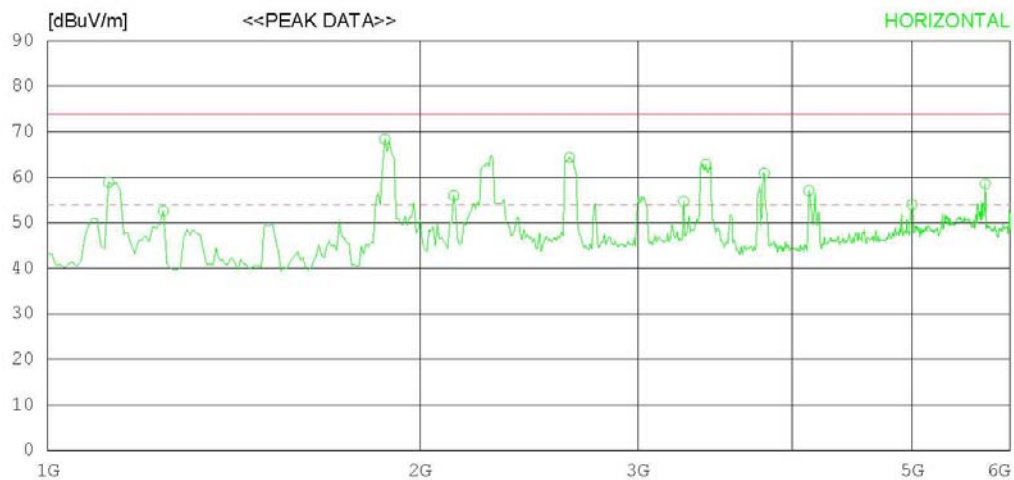
Date : 2013-03-13

Model Name : 32LT777H-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % 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 : 2013-03-13

Model Name : 32LT777H-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % R.H
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	1120.192	69.9	24.1	3.5	38.6	58.9	74.0	15.1	100	145
2	1240.385	63.1	24.2	3.7	38.4	52.6	74.0	21.4	100	145
3	1873.397	76.9	24.6	4.6	37.7	68.4	74.0	5.6	100	235
4	2129.809	63.3	25.3	4.9	37.5	56.0	74.0	18	100	358
5	2642.637	68.3	27.9	5.4	37.3	64.3	74.0	9.7	100	358
6	3267.646	57.0	28.9	6.0	37.2	54.7	74.0	19.3	100	358
7	3403.866	64.9	28.9	6.1	37.1	62.8	74.0	11.2	100	238
8	3796.500	61.5	29.6	6.5	36.7	60.9	74.0	13.1	100	358
9	4125.030	56.5	30.3	6.8	36.5	57.1	74.0	16.9	100	255
10	4998.414	50.3	32.5	7.9	36.7	54.0	74.0	20	100	151
11	5727.569	53.1	33.6	8.2	36.3	58.6	74.0	15.4	100	358
----- Vertical -----										
12	1296.474	62.6	24.3	3.8	38.3	52.4	74.0	21.6	100	1
13	1496.795	64.8	24.6	4.1	37.9	55.6	74.0	18.4	100	1
14	1689.102	61.2	24.6	4.3	37.8	52.3	74.0	21.7	100	1
15	2057.692	61.9	24.9	4.8	37.6	54.0	74.0	20	100	1
16	2362.184	61.4	26.7	5.1	37.4	55.8	74.0	18.2	100	1
17	2770.844	57.5	28.3	5.5	37.3	54.0	74.0	20	100	1
18	3019.245	62.7	29.0	5.7	37.3	60.1	74.0	13.9	100	1

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

RADIATED EMISSION

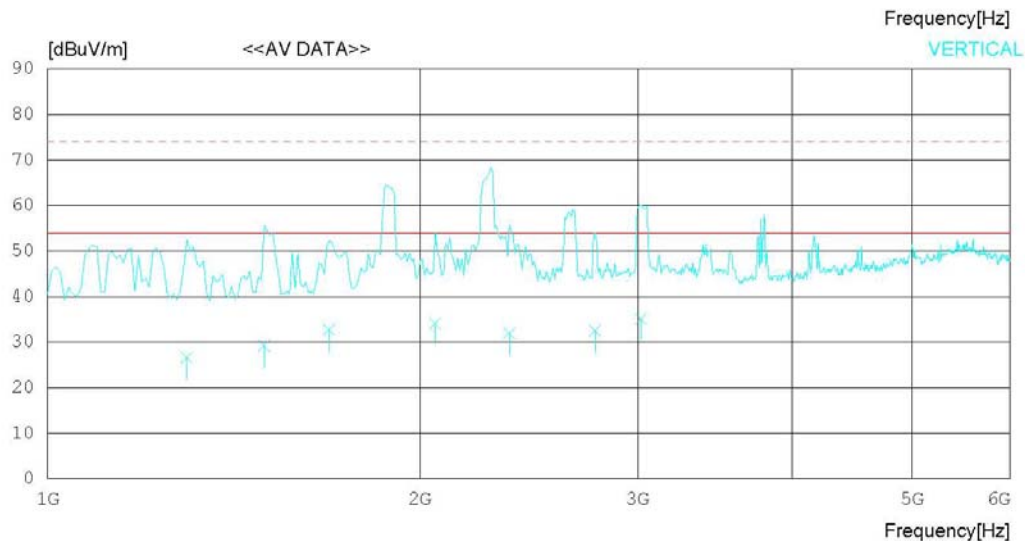
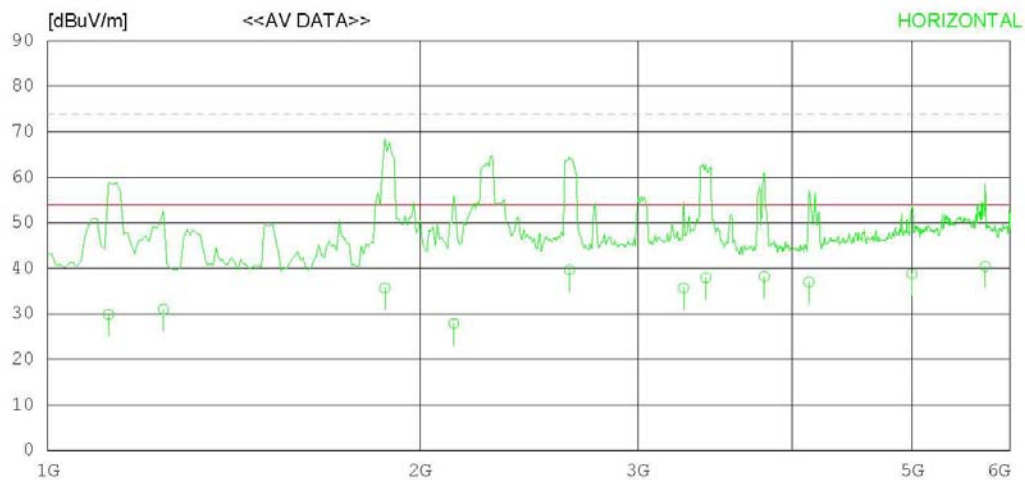
Date : 2013-03-13

Model Name : 32LT777H-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % 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 : 2013-03-13

Model Name : 32LT777H-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % R.H
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	1120.192	40.9	24.1	3.5	38.6	29.9	54.0	24.1	100	145
2	1240.385	41.5	24.2	3.7	38.4	31.0	54.0	23.0	100	145
3	1873.397	44.2	24.6	4.6	37.7	35.7	54.0	18.3	100	235
4	2129.809	35.2	25.3	4.9	37.5	27.9	54.0	26.1	100	358
5	2642.637	43.6	27.9	5.4	37.3	39.6	54.0	14.4	100	358
6	3267.646	38.0	28.9	6.0	37.2	35.7	54.0	18.3	100	358
7	3403.866	40.0	28.9	6.1	37.1	37.9	54.0	16.1	100	238
8	3796.500	38.8	29.6	6.5	36.7	38.2	54.0	15.8	100	358
9	4125.030	36.4	30.3	6.8	36.5	37.0	54.0	17.0	100	255
10	4998.414	35.1	32.5	7.9	36.7	38.8	54.0	15.2	100	151
11	5727.569	34.9	33.6	8.2	36.3	40.4	54.0	13.6	100	358
----- Vertical -----										
12	1296.474	36.9	24.3	3.8	38.3	26.7	54.0	27.3	100	1
13	1496.795	38.4	24.6	4.1	37.9	29.2	54.0	24.8	100	1
14	1689.102	41.6	24.6	4.3	37.8	32.7	54.0	21.3	100	1
15	2057.692	42.1	24.9	4.8	37.6	34.2	54.0	19.8	100	1
16	2362.184	37.5	26.7	5.1	37.4	31.9	54.0	22.1	100	1
17	2770.844	36.1	28.3	5.5	37.3	32.6	54.0	21.4	100	1
18	3019.245	37.7	29.0	5.7	37.3	35.1	54.0	18.9	100	1

< USB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

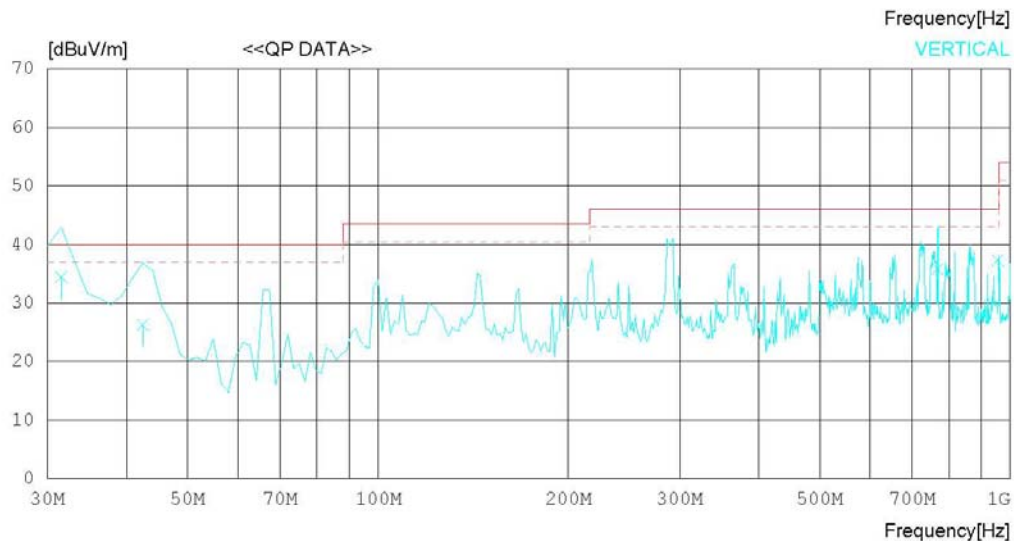
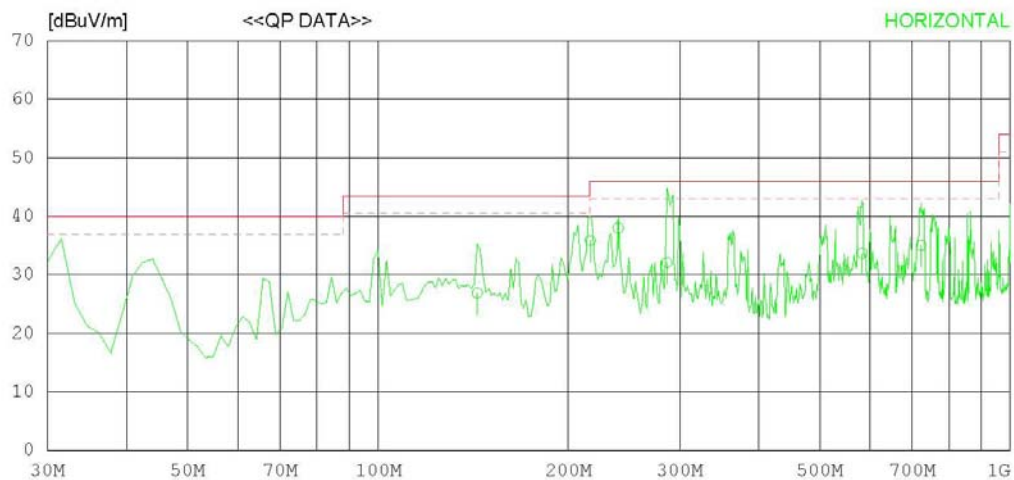
Date : 2013-03-11

Model Name : 32LT777H-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % R.H
Operator :

Memo :

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



RADIATED EMISSION

Date : 2013-03-11

Model Name : 32LT777H-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % R.H
Operator :

Memo :

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

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	143.478	38.6	10.8	1.7	24.2	26.9	43.5	16.6	195	120
2	216.539	46.7	10.7	2.4	23.9	35.9	46.0	10.1	100	358
3	239.856	47.2	12.1	2.5	23.8	38.0	46.0	8.0	100	134
4	286.490	39.5	13.5	2.8	23.7	32.1	46.0	13.9	100	149
5	583.396	34.6	18.5	4.0	23.4	33.7	46.0	12.3	100	358
6	723.302	35.2	18.9	4.6	23.7	35.0	46.0	11.0	100	358
----- Vertical -----										
7	31.554	40.2	17.1	0.9	23.8	34.4	40.0	5.6	342	1
8	42.436	36.0	13.4	1.1	24.2	26.3	40.0	13.7	100	1
9	768.382	35.2	19.5	4.7	23.6	35.8	46.0	10.2	100	1
10	956.477	33.2	21.6	5.4	22.9	37.3	46.0	8.7	126	219

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

RADIATED EMISSION

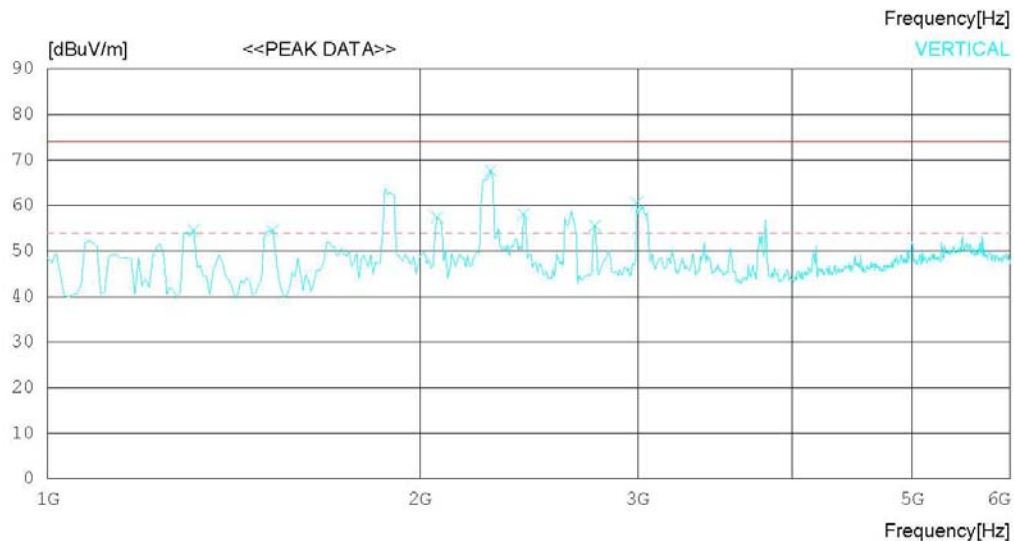
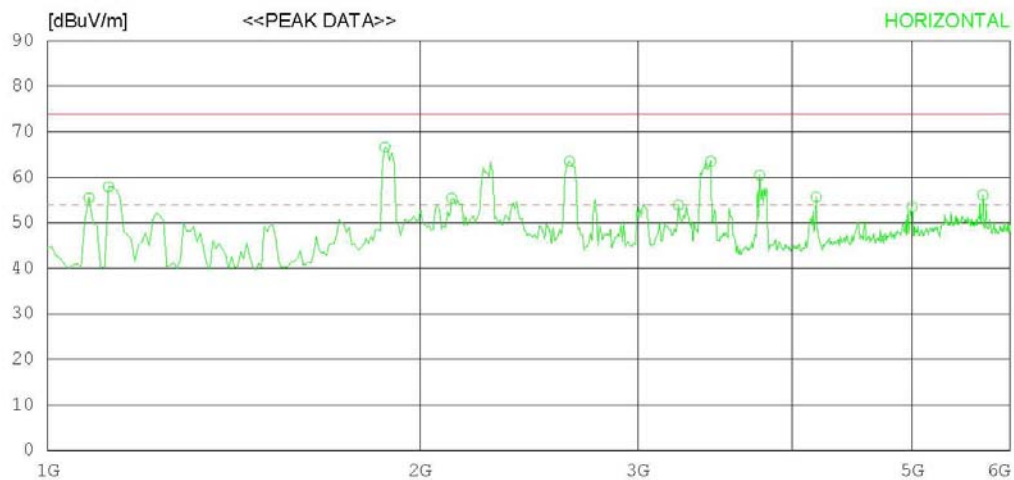
Date : 2013-03-13

Model Name : 32LT777H-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % 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 : 2013-03-13

Model Name : 32LT777H-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % R.H
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	1080.128	66.7	24.0	3.5	38.7	55.5	74.0	18.5	100	358
2	1120.192	68.9	24.1	3.5	38.6	57.9	74.0	16.1	100	358
3	1873.397	75.1	24.6	4.6	37.7	66.6	74.0	7.4	100	358
4	2121.796	62.8	25.3	4.8	37.5	55.4	74.0	18.6	100	212
5	2642.637	67.5	27.9	5.4	37.3	63.5	74.0	10.5	100	358
6	3235.594	56.3	28.9	5.9	37.2	53.9	74.0	20.1	100	358
7	3435.918	65.6	28.9	6.1	37.1	63.5	74.0	10.5	100	223
8	3764.448	61.1	29.6	6.5	36.8	60.4	74.0	13.6	100	247
9	4181.119	55.0	30.4	6.8	36.5	55.7	74.0	18.3	100	358
10	4998.414	49.8	32.5	7.9	36.7	53.5	74.0	20.5	100	153
11	5703.531	50.5	33.8	8.1	36.3	56.1	74.0	17.9	100	249
----- Vertical -----										
12	1312.500	64.5	24.4	3.8	38.2	54.5	74.0	19.5	100	1
13	1520.833	63.7	24.6	4.1	37.9	54.5	74.0	19.5	100	220
14	2065.705	65.3	24.9	4.8	37.6	57.4	74.0	16.6	100	204
15	2282.054	73.9	26.2	5.0	37.4	67.7	74.0	6.3	100	227
16	2426.287	63.2	27.0	5.2	37.3	58.1	74.0	15.9	100	210
17	2770.844	59.1	28.3	5.5	37.3	55.6	74.0	18.4	100	1
18	2995.206	63.2	29.0	5.7	37.3	60.6	74.0	13.4	100	233

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

RADIATED EMISSION

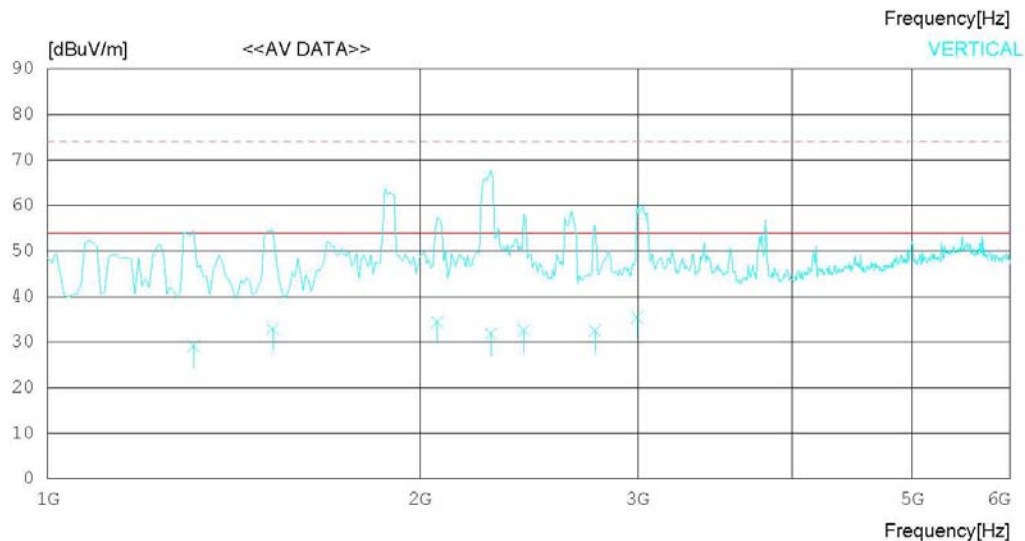
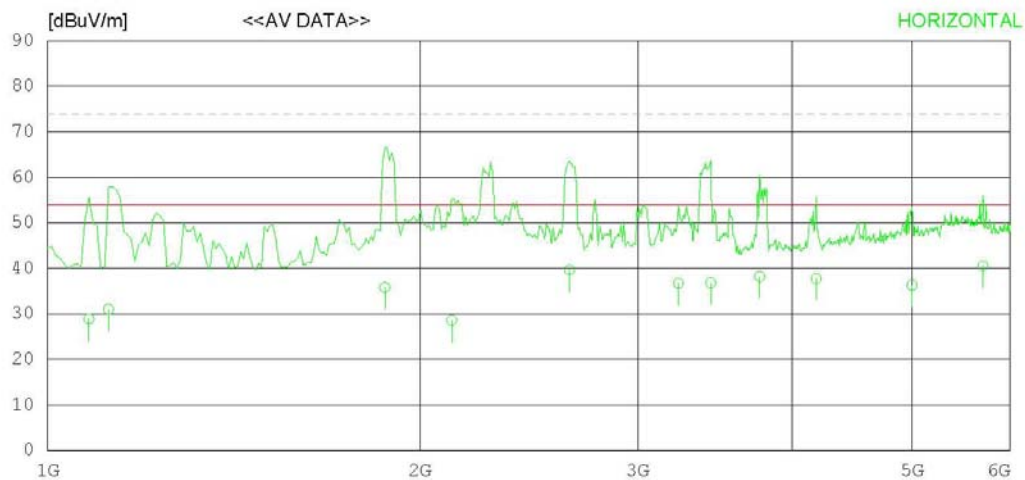
Date : 2013-03-13

Model Name : 32LT777H-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % 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 : 2013-03-13

Model Name : 32LT777H-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 39 % R.H
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	1080.128	40.1	24.0	3.5	38.7	28.9	54.0	25.1	100	358
2	1120.192	42.0	24.1	3.5	38.6	31.0	54.0	23.0	100	358
3	1873.397	44.3	24.6	4.6	37.7	35.8	54.0	18.2	100	358
4	2121.796	36.0	25.3	4.8	37.5	28.6	54.0	25.4	100	212
5	2642.637	43.6	27.9	5.4	37.3	39.6	54.0	14.4	100	358
6	3235.594	39.1	28.9	5.9	37.2	36.7	54.0	17.3	100	358
7	3435.918	38.9	28.9	6.1	37.1	36.8	54.0	17.2	100	223
8	3764.448	38.9	29.6	6.5	36.8	38.2	54.0	15.8	100	247
9	4181.119	37.0	30.4	6.8	36.5	37.7	54.0	16.3	100	358
10	4998.414	32.6	32.5	7.9	36.7	36.3	54.0	17.7	100	153
11	5703.531	34.9	33.8	8.1	36.3	40.5	54.0	13.5	100	249
----- Vertical -----										
12	1312.500	39.1	24.4	3.8	38.2	29.1	54.0	24.9	100	1
13	1520.833	42.1	24.6	4.1	37.9	32.9	54.0	21.1	100	220
14	2065.705	42.3	24.9	4.8	37.6	34.4	54.0	19.6	100	204
15	2282.054	38.0	26.2	5.0	37.4	31.8	54.0	22.2	100	227
16	2426.287	37.7	27.0	5.2	37.3	32.6	54.0	21.4	100	210
17	2770.844	36.1	28.3	5.5	37.3	32.6	54.0	21.4	100	1
18	2995.206	38.0	29.0	5.7	37.3	35.4	54.0	18.6	100	233

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	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

Appendix 2

Report Revision History

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