

EMC TEST REPORT

Test item : LED LCD TV monitor
Model No. : 32LT560C-UA
Order No. : 1209-01703
Date of receipt : 2012-09-06
Test duration : 2012-09-06 ~ 2012-09-07
Use of report : FCC CoC Marking
Date of Issue : 2012-09-10

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 : (25 ~ 26) °C,
Humidity : (42 ~ 47) % 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.

This test report shall not be reproduced except in full, without the written approval of DIGITAL EMC CO., LTD.

Tested by:



Engineer
S.W.LEE

Reviewed by:



General Manager
C.H.LEE

PRESIDENT OF DIGITAL EMC CO., LTD.

CONTENTS

1. General Remarks	3
2. Test Laboratory	3
3. General Information of EUT	4
4. Test Summary	5
4.1 Applied standards and test results	5
4.2 Test environment and conditions	5
4.3 Test result Summary	5
5. Test Set-up and operation mode	6
5.1 Principle of Configuration Selection	6
5.2 Test Operation Mode	6
5.3 Support Equipment Used	6
6. Test Results : Emission	7
6.1 Conducted Disturbance	7
6.2 Radiated Disturbance	14
Appendix 1	34
List of Test and Measurement Instruments	34

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	ROK1124C	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.	32LT560C-UA
EUT Type	LED LCD TV monitor
Serial No	NONE
FCC ID	BEJ32LT560CUA
Type of Sample Tested	Pre-Production
High Frequency	667 MHz
Rating	AC 100-240 ~ 50/60Hz, 0.6A
Supplied Power for Test	AC120 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)
720x400	31.469	70.08
640x480	31.469	59.94
800x600	37.879	60.31
1024x768	48.363	60.00
1360x768	47.712	60.015

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	09-06	26	42
Radiated Disturbance	09-07	25	47

4.3 Test result Summary

(1) Conducted Emission(USB MODE)

Frequency [MHz]	Phase	Result [dBμV]	Detector	Limit [dBμV]	Margin [dB]
0.29631	L1	44.1	Quasi-Peak	60.3	16.2

(2) Radiated Emission(DSUB MODE)

Frequency [MHz]	Pol.	Result [dB(μV/m)]	Detector	Limit [dB(μV/m)]	Margin [dB]
289.599	H	42.9	Quasi-Peak	46.0	3.1

5. Test Set-up and operation mode

5.1 Principle of Configuration Selection

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

5.2 Test Operation Mode

- DSUB MODE – Resolution : 1360 x 768 Resolution (Worst Case)
- HDMI MODE – Resolution : 1360 x 768 Resolution (Worst Case)
- USB MODE

5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE				Backshell	FCC ID
				Connect type	Length (m)	ferrite core	shield		
PC	D02M	9K77SBX	DELL	POWER	1.8	Not use	Non-shield	Plastic	DOC
				HDMI	1.8	Not use	Shield		
				DSUB	1.8	Not use	Shield		
				STEREO	1.7	Not use	Non-shield		
				USB	1.8	Not use	Shield		
				PS/2	1.7	Not use	Non-shield		
				PS/2	1.8	Not use	Non-shield		
MOUSE	M-SBF96	LZ948B105WT	LOGITECH INC	PS/2	1.8	Not use	Non-shield	Plastic	DOC
KEYBOARD	SKG-210P	TAKSC12256D	MONITEREY INTERNATIONAL CORP.	PS/2	1.7	Not use	Non-shield	Plastic	DOC
CD/DVD PLAYER	DVP-NS92V	2001499	SONY EMCS.	COMPOSITE	1.0	Not use	Non-shield	Plastic	VER
USB MEMORY	CRUZER SLICE	N/A	SANDISK	USB	-	-	-	-	DOC
PRINTER	SRP-770	N/A	BIXOLON	POWER	1.8	Not use	Non-shield	Plastic	DOC
				USB	1.8	Not use	Shield		

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

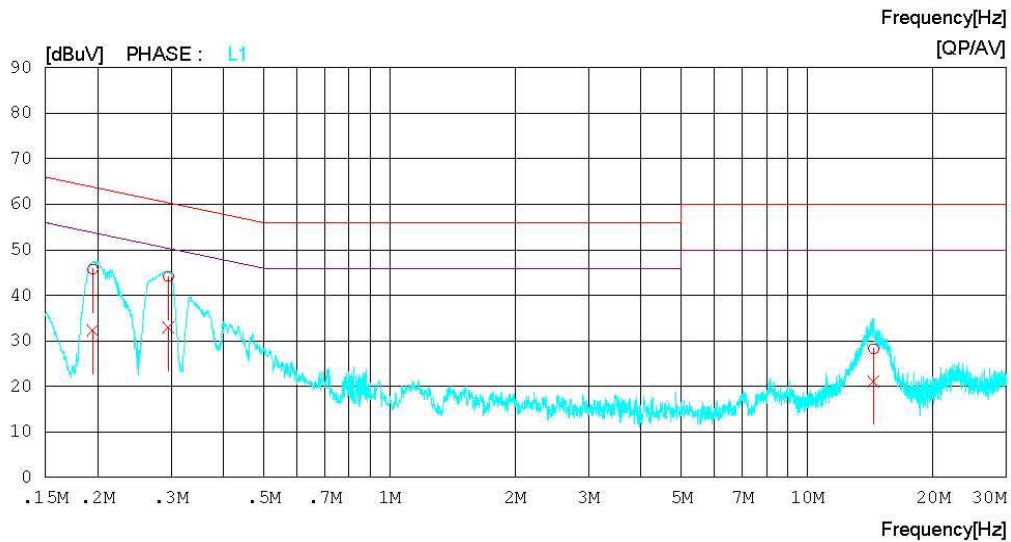
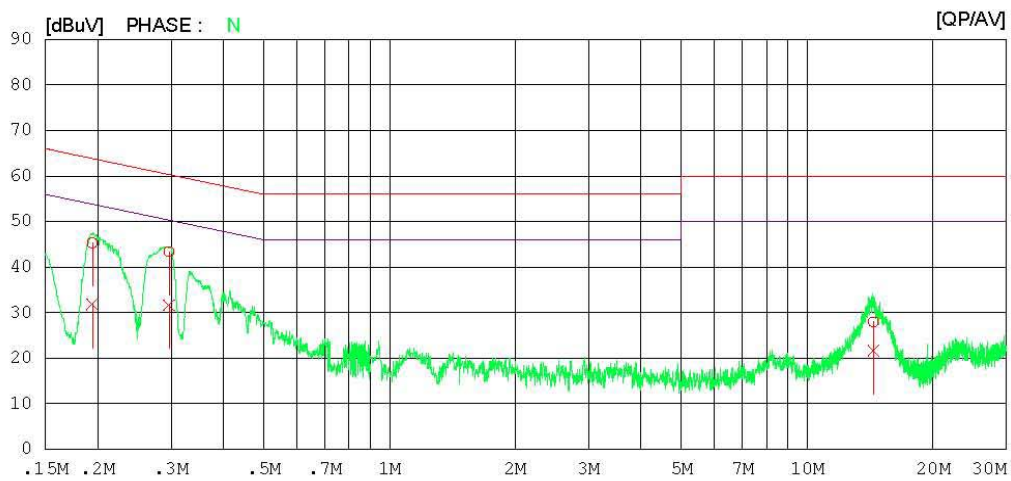
Digital EMC
Date : 2012-09-06

Model No. : 32LT560C-UA
Type :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 220 V 60 Hz
Temp/Humi. : 26 °C 42 % R.H.
Operator :

Memo : DSUB

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2012-09-06

Model No. : 32LT560C-UA
Type :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 220 V 60 Hz
Temp/Humi. : 26 °C 42 % R.H.
Operator :

Memo : DSUB

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	0.19446	45.1	31.6	0.2	45.3	31.8	63.8	53.8	18.5	22.0	N
2	0.29664	43.2	31.5	0.2	43.4	31.7	60.3	50.3	16.9	18.6	N
3	14.40800	27.1	20.7	0.9	28.0	21.6	60.0	50.0	32.0	28.4	N
4	0.19476	45.6	32.1	0.2	45.8	32.3	63.8	53.8	18.0	21.5	L1
5	0.29583	43.9	32.7	0.2	44.1	32.9	60.4	50.4	16.3	17.5	L1
6	14.43100	27.4	20.2	0.9	28.3	21.1	60.0	50.0	31.7	28.9	L1

< HDMI MODE >



Results of Conducted Emission

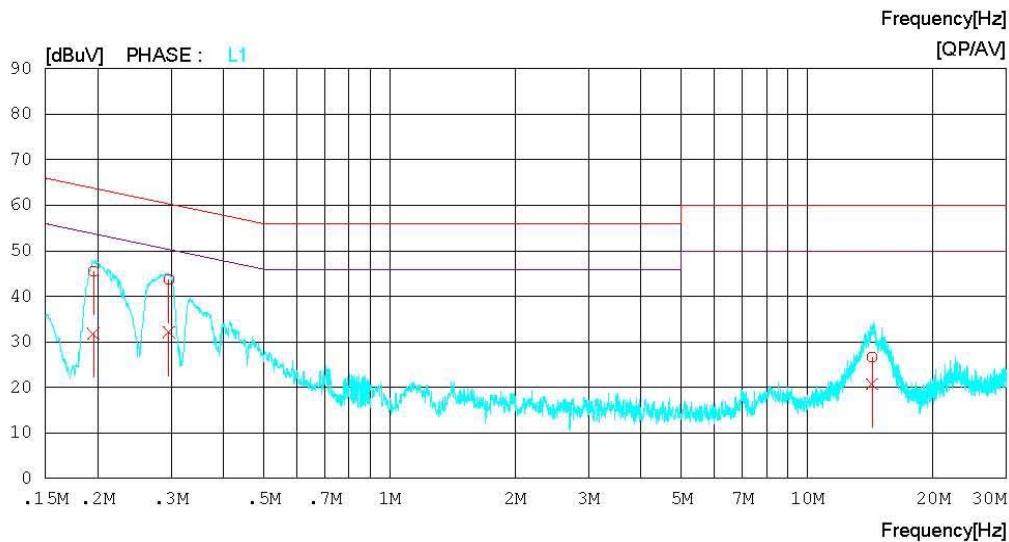
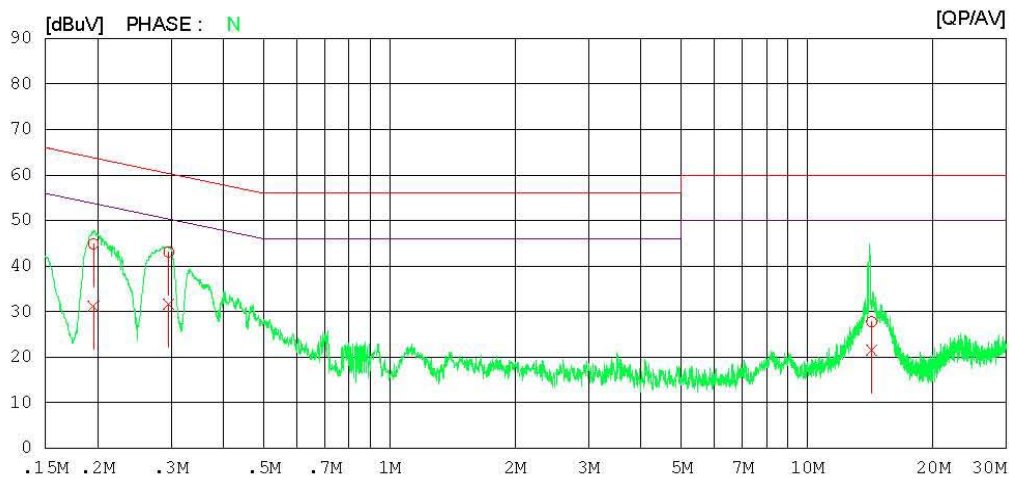
Digital EMC
Date : 2012-09-06

Model No. : 32LT560C-UA
Type :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 220 V 60 Hz
Temp/Humi. : 26 °C 42 % R.H.
Operator :

Memo : HDMI

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2012-09-06

Model No. : 32LT560C-UA
Type :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 220 V 60 Hz
Temp/Humi. : 26 °C 42 % R.H.
Operator :

Memo : HDMI

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	0.19549	44.7	30.9	0.2	44.9	31.1	63.8	53.8	18.9	22.7	N
2	0.29620	42.9	31.4	0.2	43.1	31.6	60.3	50.3	17.2	18.7	N
3	14.26550	26.9	20.6	0.9	27.8	21.5	60.0	50.0	32.2	28.5	N
4	0.19549	45.3	31.6	0.2	45.5	31.8	63.8	53.8	18.3	22.0	L1
5	0.29649	43.5	31.9	0.2	43.7	32.1	60.3	50.3	16.6	18.2	L1
6	14.30950	25.8	19.8	0.9	26.7	20.7	60.0	50.0	33.3	29.3	L1

< USB MODE >



Results of Conducted Emission

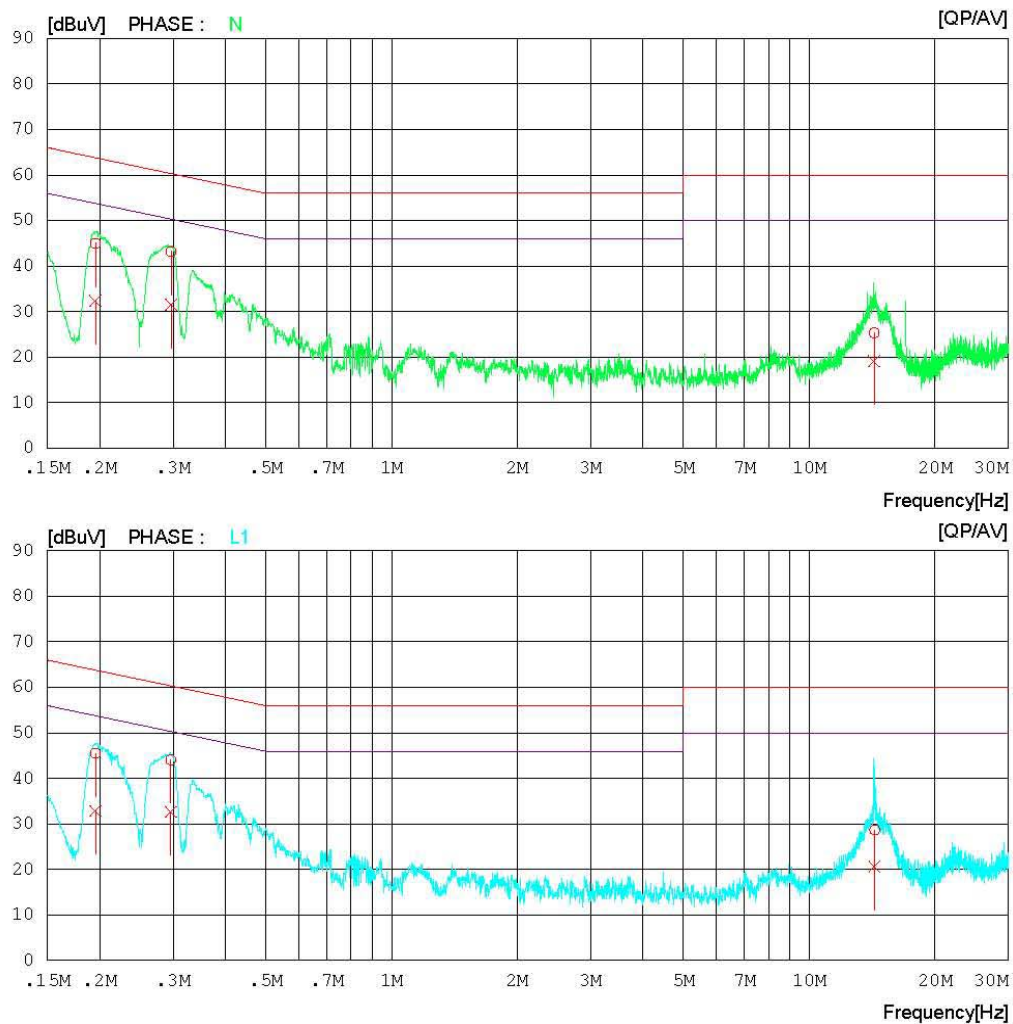
Digital EMC
Date : 2012-09-06

Model No. : 32LT560C-UA
Type :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 220 V 60 Hz
Temp/Humi. : 26 °C 42 % R.H.
Operator :

Memo : USB

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2012-09-06

Model No. : 32LT560C-UA
Type :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 220 V 60 Hz
Temp/Humi. : 26 °C 42 % R.H.
Operator :

Memo : USB

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	0.19550	44.8	32.2	0.2	45.0	32.4	63.8	53.8	18.8	21.4	N
2	0.29666	43.0	31.3	0.2	43.2	31.5	60.3	50.3	17.1	18.8	N
3	14.29900	24.4	18.2	0.9	25.3	19.1	60.0	50.0	34.7	30.9	N
4	0.19556	45.3	32.7	0.2	45.5	32.9	63.8	53.8	18.3	20.9	L1
5	0.29631	43.9	32.4	0.2	44.1	32.6	60.3	50.3	16.2	17.7	L1
6	14.34850	27.8	19.8	0.9	28.7	20.7	60.0	50.0	31.3	29.3	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	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

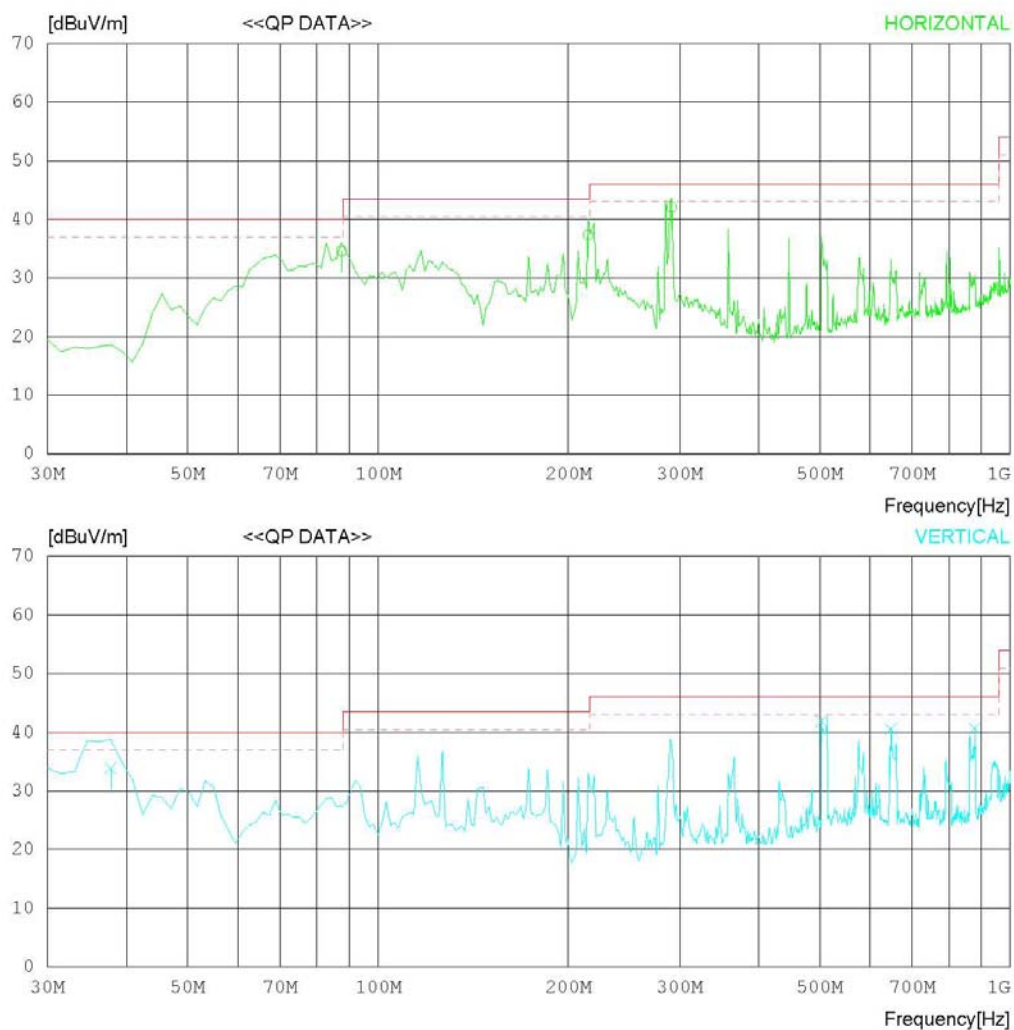
Date : 2012-09-07

Model Name : 32LT560C-UA
Model No. :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 25 °C 47 % R.H.
Operator :

Memo : DSUB

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



RADIATED EMISSION

Date : 2012-09-07

Model Name : 32LT560C-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 25 °C 47 % R.H.
Test Condition :	Operator :

Memo : DSUB

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	87.516	47.2	8.7	1.5	22.8	34.6	40.0	5.4	400	358
2	214.984	48.2	10.1	2.4	23.4	37.3	43.5	6.2	100	1
3	291.154	50.1	13.0	2.8	23.8	42.1	46.0	3.9	100	1
----- Vertical -----										
4	37.772	41.2	14.6	1.1	23.0	33.9	40.0	6.1	100	273
5	502.562	45.2	17.5	3.9	24.7	41.9	46.0	4.1	100	358
6	647.131	42.0	18.8	4.2	24.5	40.5	46.0	5.5	100	358
7	880.307	38.2	20.6	5.1	23.2	40.7	46.0	5.3	100	358

< DSUB MODE _ (1 ~ 6) GHz_Peak >

RADIATED EMISSION

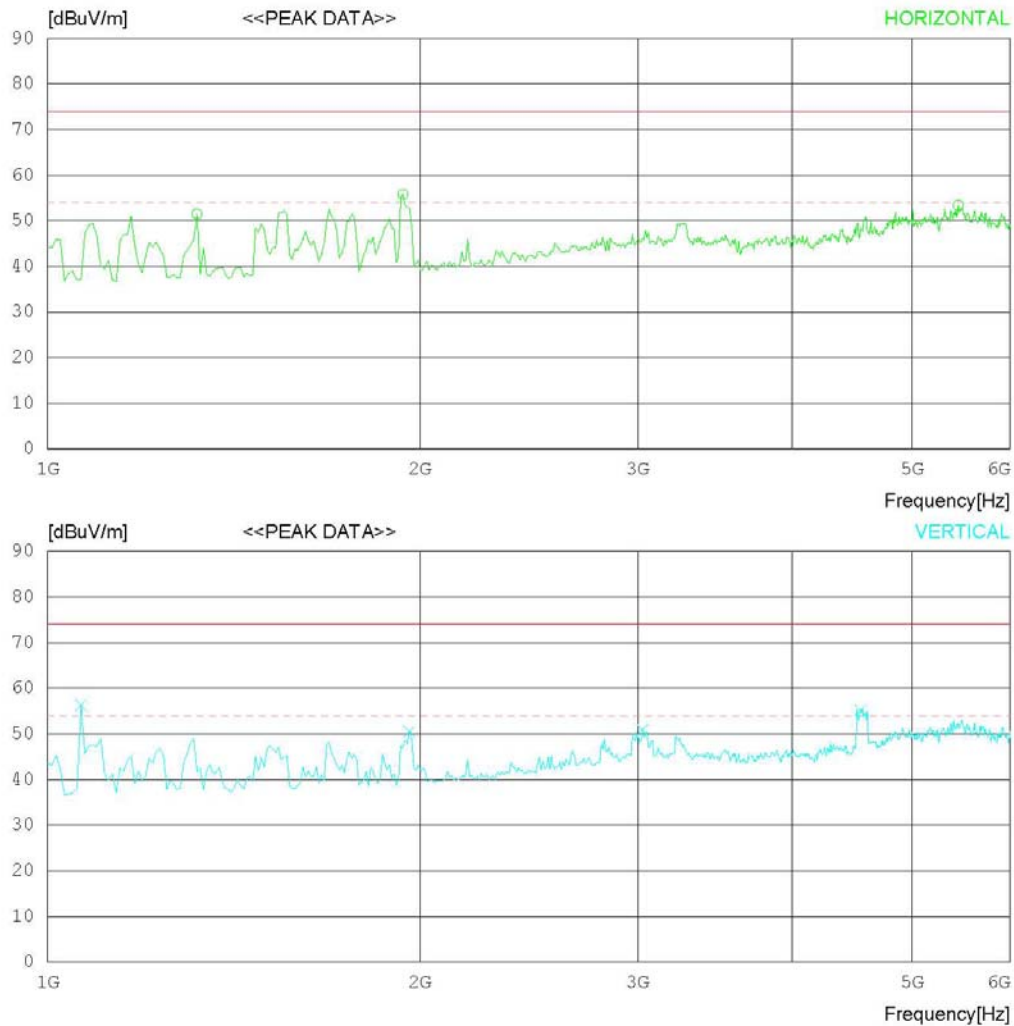
Date : 2012-09-07

Model Name : 32LT560C-UA
Model No. :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 25 °C 47 % R.H.
Operator :

Memo : DSUB

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



RADIATED EMISSION

Date : 2012-09-07

Model Name : 32LT560C-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 25 °C 47 % R.H.
Test Condition :	Operator :
Memo : DSUB	

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	1320.513	62.0	24.4	6.9	41.8	51.5	74.0	22.5	100	358
2	1937.500	64.6	24.6	8.3	41.7	55.8	74.0	18.2	100	358
3	5447.125	46.3	34.8	14.9	42.6	53.4	74.0	20.6	100	358
----- Vertical -----										
4	1064.103	68.1	24.0	6.0	41.8	56.3	74.0	17.7	100	51
5	1961.538	59.2	24.6	8.4	41.7	50.5	74.0	23.5	100	1
6	3027.258	53.2	29.0	10.6	41.9	50.9	74.0	23.1	100	1
7	4541.690	52.6	31.0	13.6	42.0	55.2	74.0	18.8	100	191

< DSUB MODE _ (1 ~ 6) GHz_Average >

RADIATED EMISSION

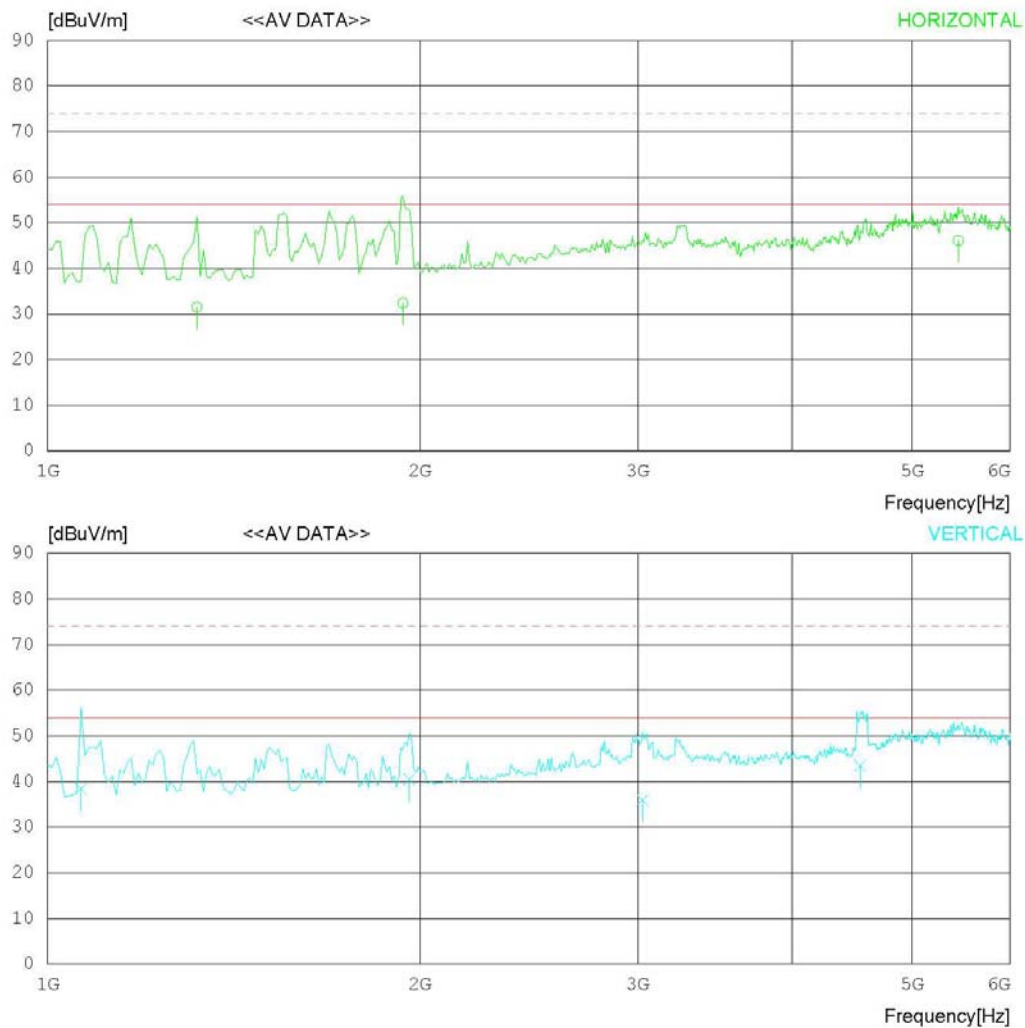
Date : 2012-09-07

Model Name : 32LT560C-UA
Model No. :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 25 °C 47 % R.H.
Operator :

Memo : DSUB

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



RADIATED EMISSION

Date : 2012-09-07

Model Name : 32LT560C-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 25 °C 47 % R.H.
Test Condition :	Operator :

Memo : DSUB

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	1320.513	42.0	24.4	6.9	41.8	31.5	54.0	22.5	100	358
2	1937.500	41.2	24.6	8.3	41.7	32.4	54.0	21.6	100	358
3	5447.125	39.0	34.8	14.9	42.6	46.1	54.0	7.9	100	358
----- Vertical -----										
4	1064.103	50.2	24.0	6.0	41.8	38.4	54.0	15.6	100	51
5	1961.538	49.2	24.6	8.4	41.7	40.5	54.0	13.5	100	1
6	3027.258	38.2	29.0	10.6	41.9	35.9	54.0	18.1	100	1
7	4541.690	40.9	31.0	13.6	42.0	43.5	54.0	10.5	100	191

< HDMI MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

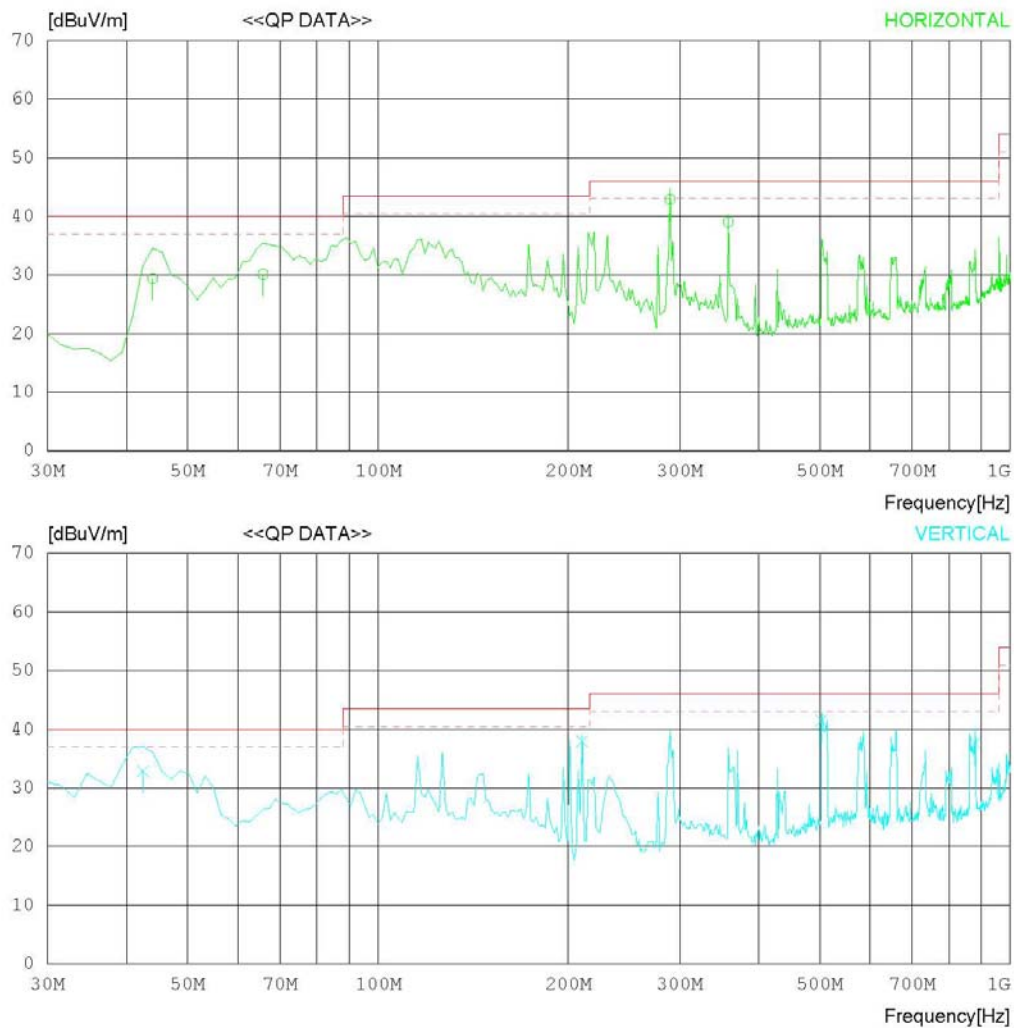
Date : 2012-09-07

Model Name : 32LT560C-UA
Model No. :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 25 °C 47 % R.H.
Operator :

Memo : HDMI

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



RADIATED EMISSION

Date : 2012-09-07

Model Name : 32LT560C-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 25 °C 47 % R.H.
Test Condition :	Operator :

Memo : HDMI

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	43.990	40.2	11.0	1.1	22.9	29.4	40.0	10.6	400	358
2	65.753	44.7	6.5	1.6	22.7	30.1	40.0	9.9	299	188
3	289.599	50.9	13.0	2.8	23.8	42.9	46.0	3.1	100	35
4	357.996	45.2	14.6	3.4	24.2	39.0	46.0	7.0	100	64
----- Vertical -----										
5	42.436	42.8	11.9	1.1	22.9	32.9	40.0	7.1	100	358
6	210.321	49.2	9.8	2.4	23.4	38.0	43.5	5.5	400	1
7	502.562	44.8	17.5	3.9	24.7	41.5	46.0	4.5	301	0
8	880.307	35.2	20.6	5.1	23.2	37.7	46.0	8.3	201	359

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

RADIATED EMISSION

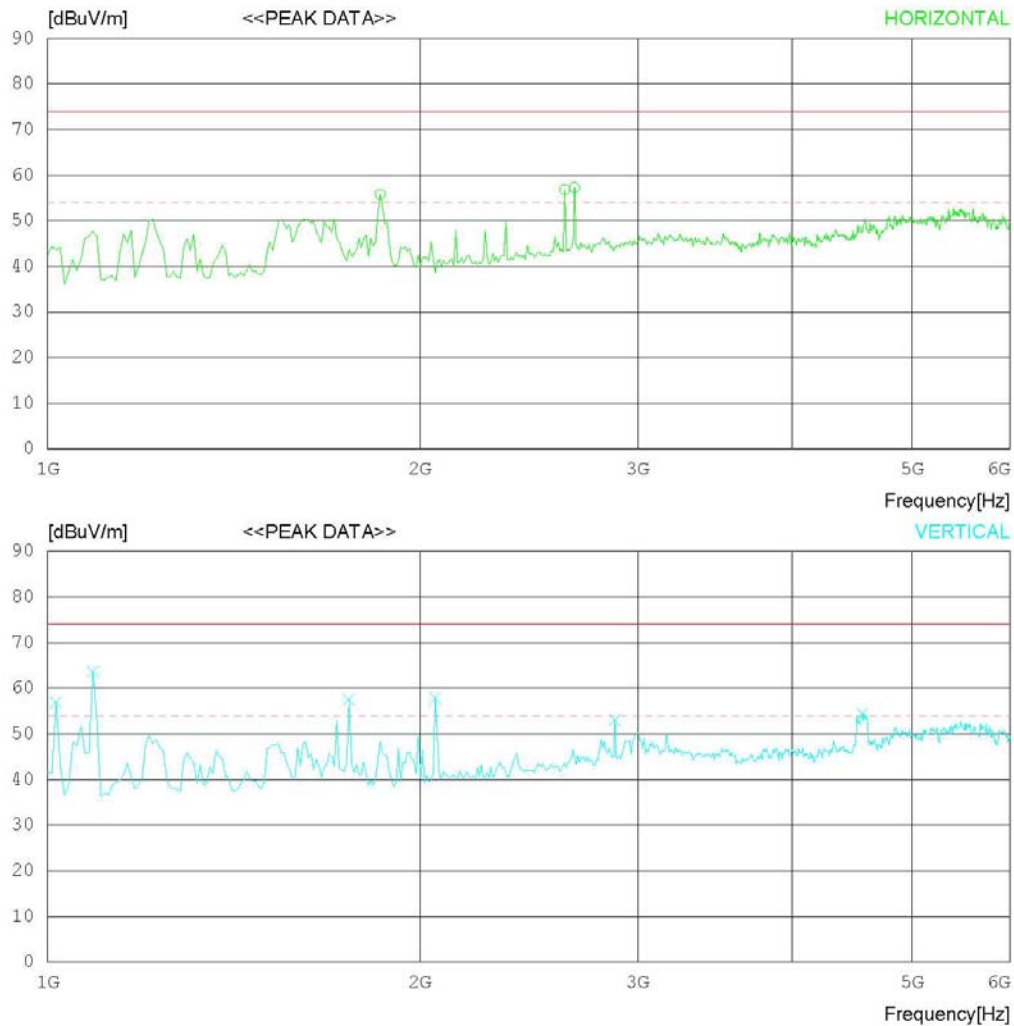
Date : 2012-09-07

Model Name : 32LT560C-UA
Model No. :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 25 °C 47 % R.H.
Operator :

Memo : HDMI

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



RADIATED EMISSION

Date : 2012-09-07

Model Name : 32LT560C-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 25 °C 47 % R.H.
Test Condition :	Operator :
Memo : HDMI	

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	1857.371	64.7	24.6	8.2	41.7	55.8	74.0	18.2	100	197
2	2618.598	61.1	27.8	9.8	41.8	56.9	74.0	17.1	100	287
3	2666.676	61.1	28.0	9.9	41.7	57.3	74.0	16.7	100	358
----- Vertical -----										
4	1016.026	69.0	23.9	5.8	41.8	56.9	74.0	17.1	100	1
5	1088.141	75.4	24.0	6.1	41.8	63.7	74.0	10.3	100	1
6	1753.205	66.6	24.6	8.0	41.7	57.5	74.0	16.5	100	1
7	2057.692	66.0	24.9	8.6	41.7	57.8	74.0	16.2	100	1
8	2875.012	55.9	28.6	10.3	41.8	53.0	74.0	21	100	243
9	4557.715	51.6	31.1	13.7	42.0	54.4	74.0	19.6	100	191

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

RADIATED EMISSION

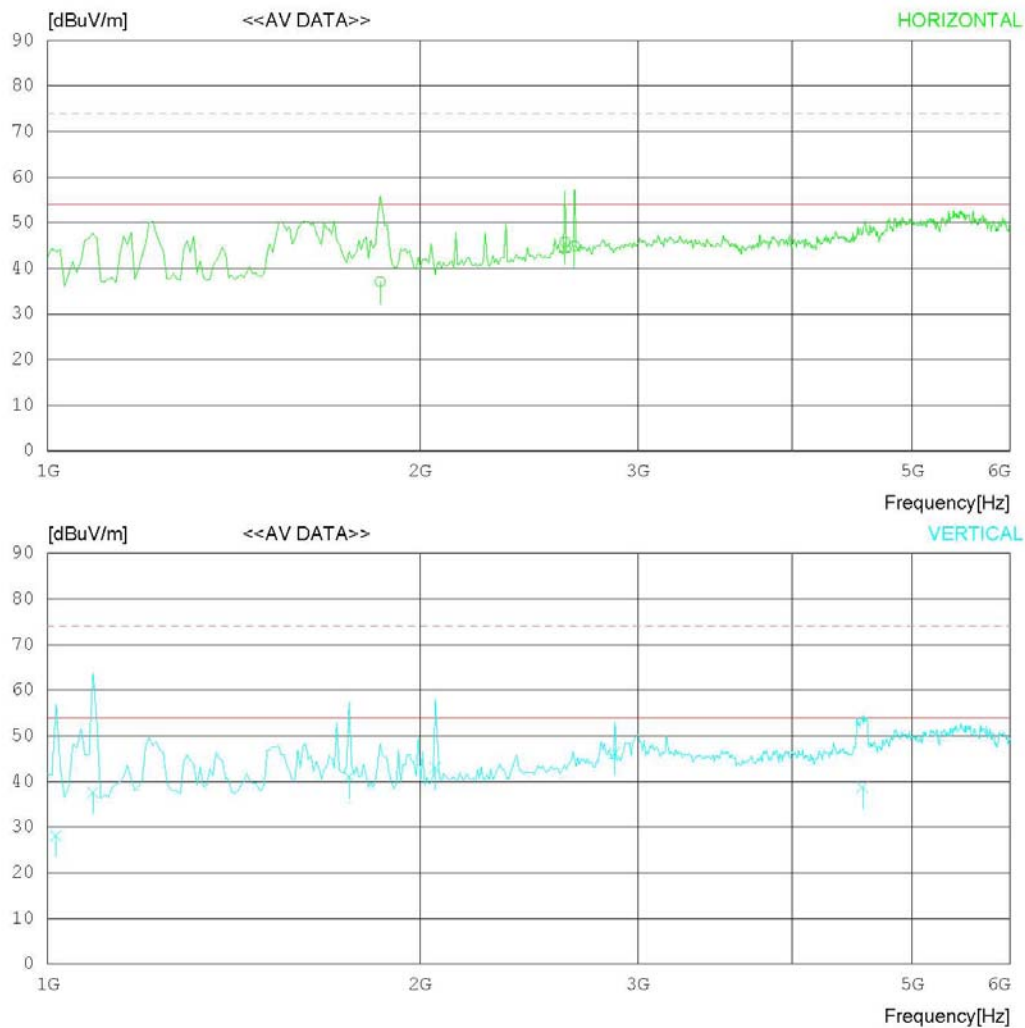
Date : 2012-09-07

Model Name : 32LT560C-UA
Model No. :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 25 °C 47 % R.H.
Operator :

Memo : HDMI

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



RADIATED EMISSION

Date : 2012-09-07

Model Name : 32LT560C-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 25 °C 47 % R.H.
Test Condition :	Operator :

Memo : HDMI

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	1857.371	46.0	24.6	8.2	41.7	37.1	54.0	16.9	100	197
2	2618.598	50.0	27.8	9.8	41.8	45.8	54.0	8.2	100	287
3	2666.676	48.7	28.0	9.9	41.7	44.9	54.0	9.1	100	358
----- Vertical -----										
4	1016.026	40.2	23.9	5.8	41.8	28.1	54.0	25.9	100	1
5	1088.141	49.3	24.0	6.1	41.8	37.6	54.0	16.4	100	1
6	1753.205	50.1	24.6	8.0	41.7	41.0	54.0	13.0	100	1
7	2057.692	51.2	24.9	8.6	41.7	43.0	54.0	11.0	100	1
8	2875.012	49.2	28.6	10.3	41.8	46.3	54.0	7.7	100	243
9	4557.715	36.0	31.1	13.7	42.0	38.8	54.0	15.2	100	191

< USB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

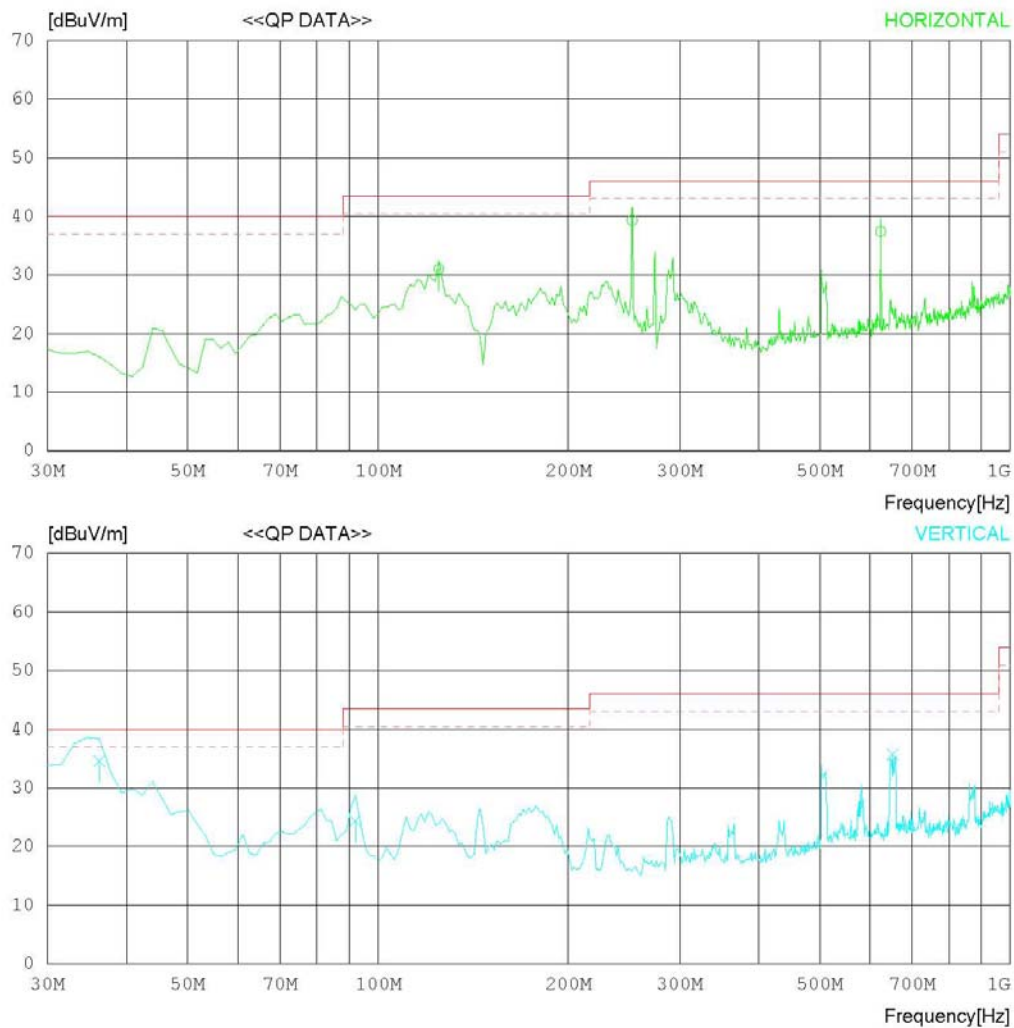
Date : 2012-09-07

Model Name : 32LT560C-UA
Model No. :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 25 °C 47 % R.H.
Operator :

Memo : USB

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



RADIATED EMISSION

Date : 2012-09-07

Model Name : 32LT560C-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 25 °C 47 % R.H.
Test Condition :	Operator :

Memo : USB

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	124.824	40.2	12.2	1.5	22.9	31.0	43.5	12.5	100	282
2	252.292	48.0	12.3	2.6	23.6	39.3	46.0	6.7	100	282
3	623.813	39.1	18.7	4.2	24.6	37.4	46.0	8.6	100	280
----- Vertical -----										
4	36.218	41.2	15.4	1.1	23.1	34.6	40.0	5.4	100	266
5	92.180	36.2	9.5	1.5	22.8	24.4	43.5	19.1	100	234
6	651.795	37.2	18.8	4.2	24.5	35.7	46.0	10.3	100	234

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

RADIATED EMISSION

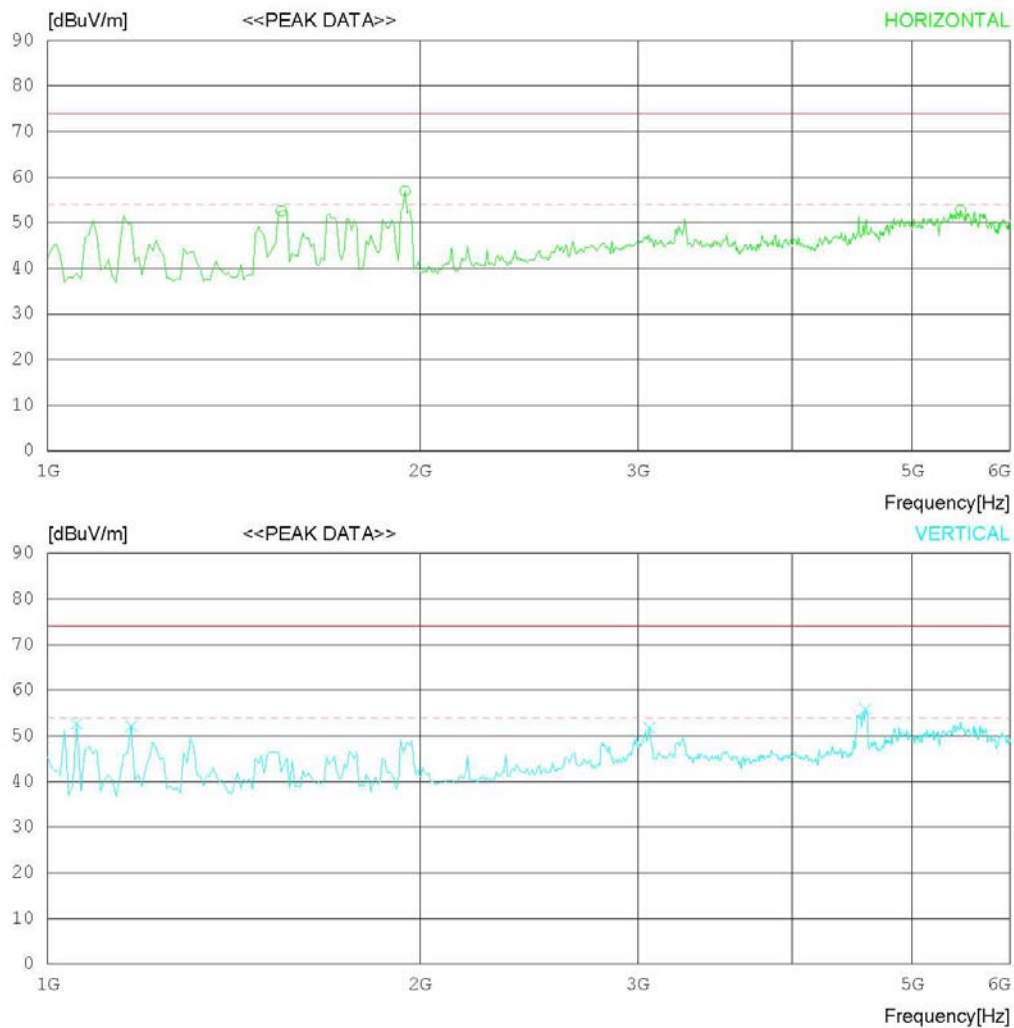
Date : 2012-09-07

Model Name : 32LT560C-UA
Model No. :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 25 °C 47 % R.H.
Operator :

Memo : DSUB

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



RADIATED EMISSION

Date : 2012-09-07

Model Name : 32LT560C-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 25 °C 47 % R.H.
Test Condition :	Operator :
Memo : DSUB	

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	1544.872	62.0	24.6	7.6	41.6	52.6	74.0	21.4	100	358
2	1945.512	65.8	24.6	8.3	41.7	57.0	74.0	17	100	358
3	5471.163	45.7	34.9	14.9	42.7	52.8	74.0	21.2	100	7
----- Vertical -----										
4	1056.090	64.6	24.0	5.9	41.8	52.7	74.0	21.3	100	237
5	1168.269	63.6	24.1	6.3	41.9	52.1	74.0	21.9	100	247
6	3067.323	53.9	29.0	10.7	41.8	51.8	74.0	22.2	100	1
7	4581.753	52.8	31.2	13.8	42.0	55.8	74.0	18.2	100	191

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

RADIATED EMISSION

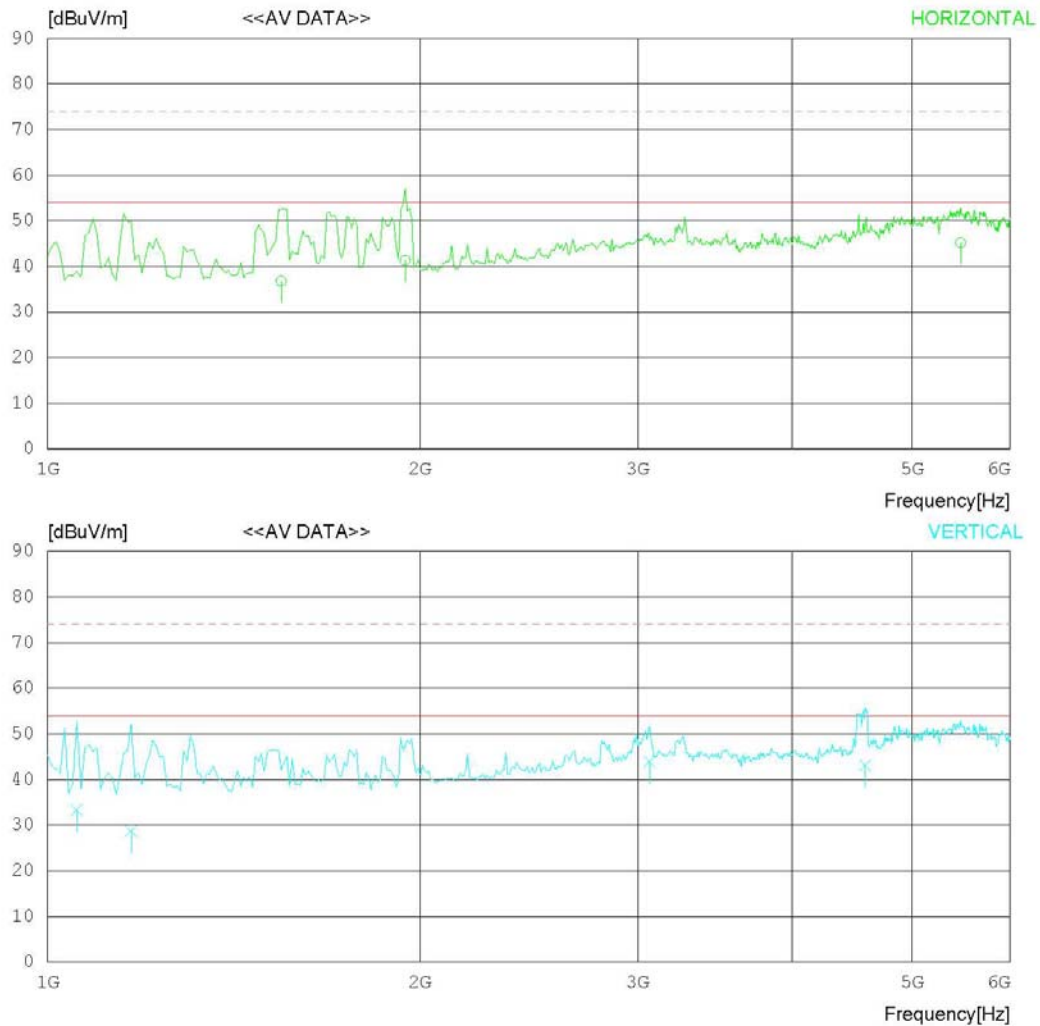
Date : 2012-09-07

Model Name : 32LT560C-UA
Model No. :
Serial No. :
Test Condition :

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 25 °C 47 % R.H.
Operator :

Memo : DSUB

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



RADIATED EMISSION

Date : 2012-09-07

Model Name : 32LT560C-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 25 °C 47 % R.H.
Test Condition :	Operator :
Memo : DSUB	

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	1544.872	46.2	24.6	7.6	41.6	36.8	54.0	17.2	100	358
2	1945.512	50.1	24.6	8.3	41.7	41.3	54.0	12.7	100	358
3	5471.163	38.1	34.9	14.9	42.7	45.2	54.0	8.8	100	7
----- Vertical -----										
4	1056.090	45.2	24.0	5.9	41.8	33.3	54.0	20.7	100	237
5	1168.269	40.2	24.1	6.3	41.9	28.7	54.0	25.3	100	247
6	3067.323	46.0	29.0	10.7	41.8	43.9	54.0	10.1	100	1
7	4581.753	40.1	31.2	13.8	42.0	43.1	54.0	10.9	100	191

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	2012.01.09	2013.01.09
☐ LISN	PMM L2-16B	NARDA S.T.S. / PMM	000WX20305	2012.03.13	2013.03.13
☐ 50 OHM TERMINATOR	CT-01	TME	N/A	2012.01.09	2013.01.09
☒ EMI TEST RECEIVER	ESCI	ROHDE & SCHWARZ	100364	2012.03.06	2013.03.06
☒ LISN	ESH2-Z5	ROHDE & SCHWARZ	828739/006	2011.09.30	2012.09.30
☒ LISN	LISN1600	TTI	197204	2012.07.02	2013.07.02
☒ 50 OHM TERMINATOR	CT-01	TME	N/A	2012.01.09	2013.01.09

2. Radiated Disturbance

Name of Instrument	Model No.	Manufacturer	Serial No.	Cal. Date	Next Cal. Date
☒ EMI TEST RECEIVER	ESU	ROHDE & SCHWARZ	100014	2012.01.09	2013.01.09
☒ BILOG ANTENNA	CBL6112D	SCHAFFNER	22609	2011.12.21	2012.12.21
☒ HORN ANTENNA	BBHA9120A	SCHWARZBECK	322	2012.05.15	2014.05.15
☒ AMPLIFIER	8447E	H/P	2945A02865	2012.01.09	2013.01.09
☒ AMPLIFIER	MLA-00108-B02-36	TSJ	1518831	2012.01.09	2013.01.09
☐ SPECTRUM ANALYZER	E4411B	AGILENT	US41062735	2012.07.11	2013.07.11
☐ AMPLIFIER	8447D	AGILENT	2443A03690	2012.07.01	2013.07.01
☐ BILOG ANTENNA	VULB9160	SCHAFFNER	3151	2010.08.25	2012.08.25
☐ 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