

EMC TEST REPORT

Test item : LED LCD TV monitor
Model No. : 42LS3450-UA
Order No. : 1206-00898
Date of receipt : 2012-06-15
Test duration : 2012-06-20
Use of report : FCC CoC Marking
Date of Issue : 2012-06-20

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 : 24 °C,
Humidity : 42 % 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:



Manager

M.J.SONG

Reviewed by:



General Manager

C.H.LEE

The above test report is the accredited test results by Korea Laboratory Accreditation Scheme,
which signed the ILAC-MRA.

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	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.	42LS3450-UA
EUT Type	LED LCD TV monitor
Serial No	N/A
FCC ID	BEJ42LS3450UA
Type of Sample Tested	Pre-Production
High Frequency	650Mhz
Rating	AC 100-240 ~ 50/60Hz
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

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 (°C)	Humidity (% R.H.)	Pressure (hPa)
Conducted Disturbance	06-20	24	42	-
Radiated Disturbance	06-20	24	42	

4.3 Test result Summary

(1) Conducted Emission (USB MODE)

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
3.73350	N	37.9	Average	46.0	8.1

(2) Radiated Emission (USB MODE)

Frequency [MHz]	Pol.	Result [dB(μ V/m)]	Detector	Limit [dB(μ V/m)]	Margin [dB]
960.000	V	42.7	Quasi Peak	46.0	3.3

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 – Resolution : 1920 X 1080 Resolution (Worst Case)
- USB MEDIA FILE PLAYS MODE

5.3 Support Equipment Used

Unit	Model No.	Serial No.	Manufacturer	CABLE				Backshell	FCC ID
				Connect type	Length (m)	ferrite core	shield		
PC	S30MS	004S4VM019295	LG	Power	1.8	Not use	Non-shield	Plastic	DOC
				PS/2	1.8	Not use	Non-shield		
				DVI	1.8	Not use	Shield		
				USB	1.8	Not use	Non-shield		
				USB	1.6	Not use	Non-shield		
PRINTER	M120	N/A	EPSON	POWER	1.8	Not use	Non-shield	Plastic	DOC
				USB	1.8	Not use	Non-shield		
KEYBOARD	SKG-210PB	TAK2129859B	MONITEREY INTERNATIONAL CORP	PS/2	1.8	Not use	Non-shield	Plastic	DOC
MOUSE	M05UOA	G160166J	MONITEREY INTERNATIONAL CORP	USB	1.6	Not use	Non-shield	Plastic	DOC
CD/DVD PLAYER	DVP-NS92V	2001499	SONY EMCS	POWER	1.8	Not use	Non-shield	Plastic	VER
				HDMI	2.0	Not use	Shield		
				AV	1.6	Not use	Non-shield		
USB MEMORY	HEWELY	N/A	AXXEN	USB	-	-	-	-	DOC
REMOTE	AKB73655 8061	N/A	LG	-	-	-	-	-	DOC

6. Test Results : Emission

6.1 Conducted Disturbance

6.1.1 Measurement Procedure

In the range of 0.15MHz to 30MHz, 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 0.8m above the reference ground plane and 0.4m 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 0.15m 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 0.15MHz to 0.5MHz.				

Test Result

< HDMI MODE >



Results of Conducted Emission

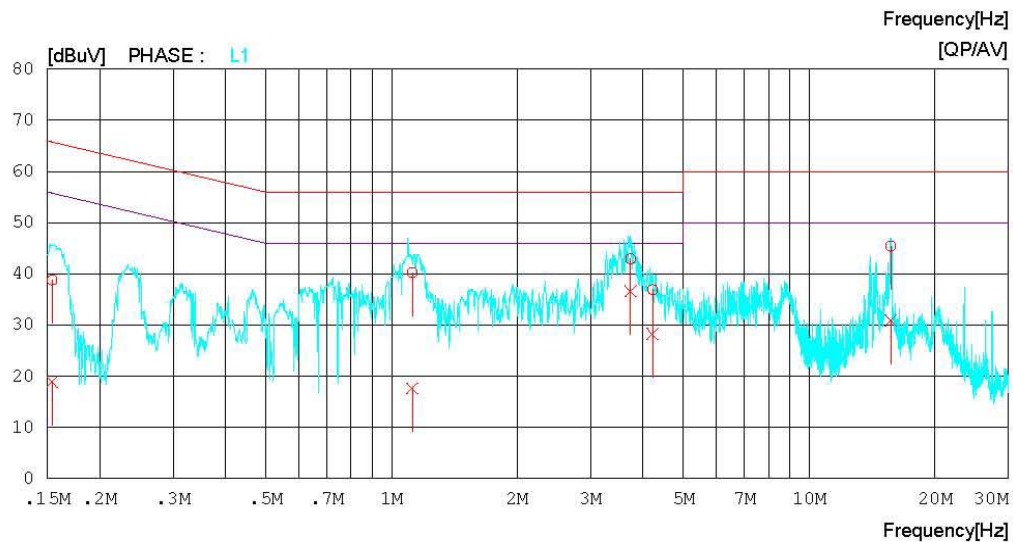
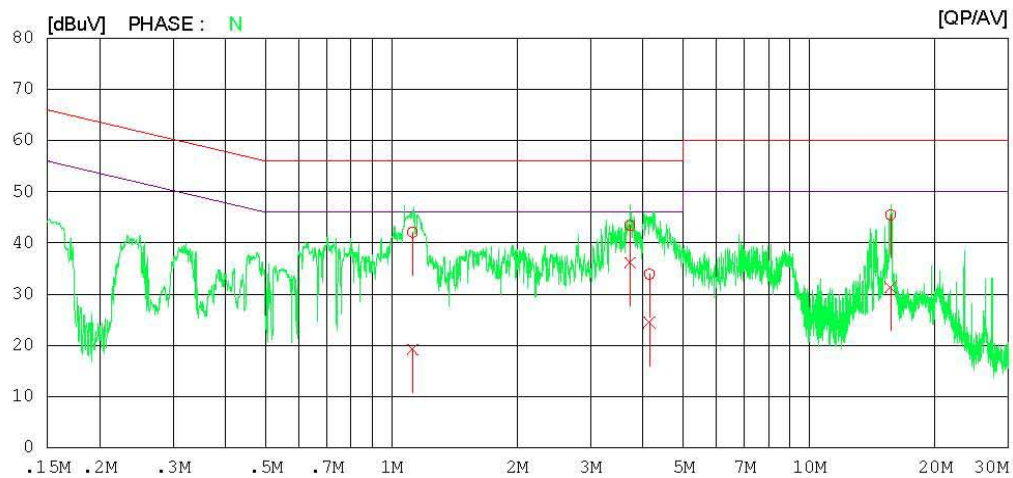
Digital EMC
Date : 2012-06-20

Model No. : 42LS3450-UA
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 24 °C 42 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2012-06-20

Model No. : 42LS3450-UA
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 24 °C 42 % 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	1.12300	41.8	18.9	0.3	42.1	19.2	56.0	46.0	13.9	26.8	N
2	3.72450	43.0	35.7	0.4	43.4	36.1	56.0	46.0	12.6	9.9	N
3	4.14300	33.5	24.1	0.4	33.9	24.5	56.0	46.0	22.1	21.5	N
4	15.66850	44.5	30.4	1.0	45.5	31.4	60.0	50.0	14.5	18.6	N
5	0.15400	38.5	18.6	0.3	38.8	18.9	65.8	55.8	27.0	36.9	L1
6	1.12100	39.9	17.3	0.3	40.2	17.6	56.0	46.0	15.8	28.4	L1
7	3.73700	42.5	36.3	0.4	42.9	36.7	56.0	46.0	13.1	9.3	L1
8	4.21750	36.5	27.9	0.4	36.9	28.3	56.0	46.0	19.1	17.7	L1
9	15.67000	44.4	29.9	1.0	45.4	30.9	60.0	50.0	14.6	19.1	L1

< USB MODE >



Results of Conducted Emission

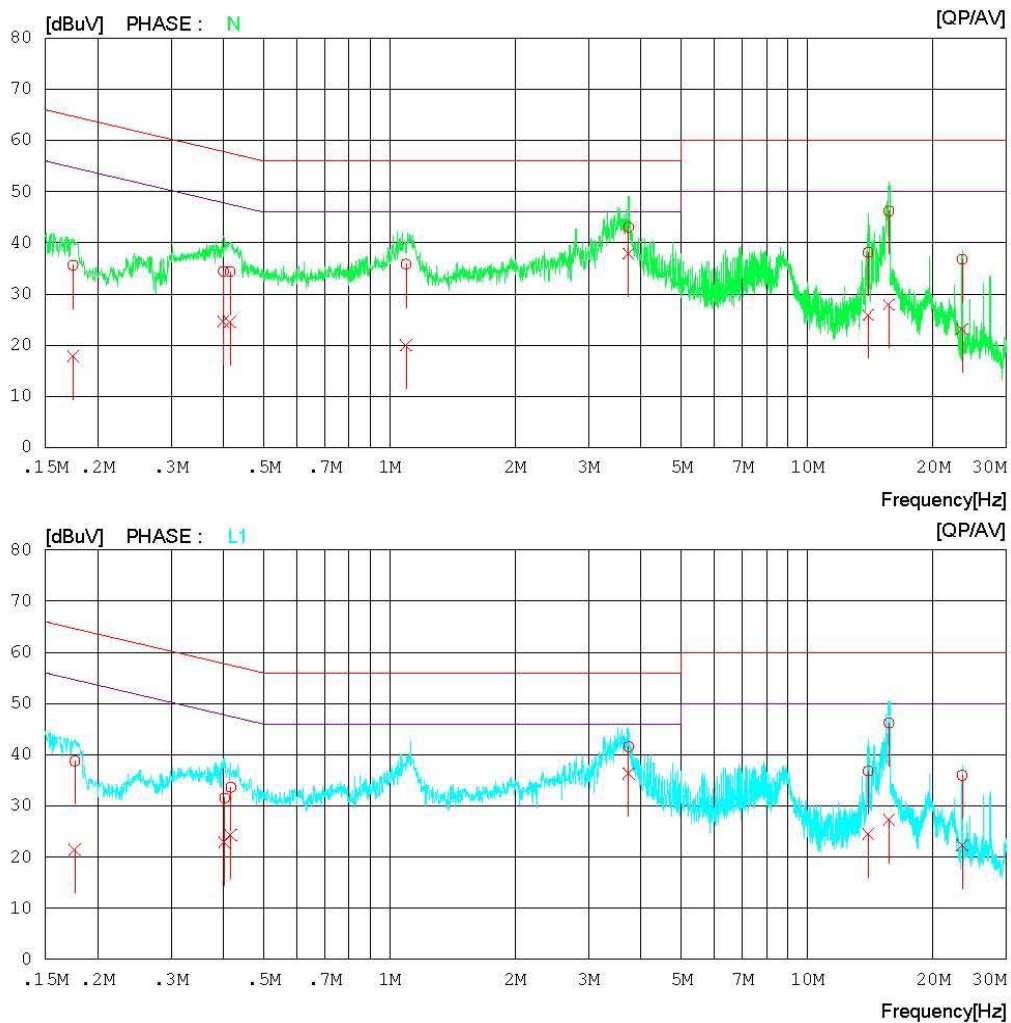
Digital EMC
Date : 2012-06-20

Model No. : 42LS3450-UA
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 24 °C 42 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2012-06-20

Model No. : 42LS3450-UA
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 24 °C 42 % 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	0.17478	35.4	17.6	0.2	35.6	17.8	64.7	54.7	29.1	36.9	N
2	0.40036	34.1	24.4	0.3	34.4	24.7	57.8	47.8	23.4	23.1	N
3	0.41513	34.1	24.3	0.3	34.4	24.6	57.5	47.5	23.1	22.9	N
4	1.09600	35.5	19.7	0.3	35.8	20.0	56.0	46.0	20.2	26.0	N
5	3.73350	42.6	37.5	0.4	43.0	37.9	56.0	46.0	13.0	8.1	N
6	14.00400	37.2	25.0	0.9	38.1	25.9	60.0	50.0	21.9	24.1	N
7	15.67900	45.2	26.9	1.0	46.2	27.9	60.0	50.0	13.8	22.1	N
8	23.50000	35.5	21.8	1.3	36.8	23.1	60.0	50.0	23.2	26.9	N
9	0.17641	38.6	21.3	0.2	38.8	21.5	64.7	54.7	25.9	33.2	L1
10	0.40304	31.2	22.6	0.3	31.5	22.9	57.8	47.8	26.3	24.9	L1
11	0.41723	33.3	24.0	0.3	33.6	24.3	57.5	47.5	23.9	23.2	L1
12	3.73600	41.2	35.9	0.4	41.6	36.3	56.0	46.0	14.4	9.7	L1
13	13.99500	35.9	23.7	0.9	36.8	24.6	60.0	50.0	23.2	25.4	L1
14	15.68800	45.2	26.4	1.0	46.2	27.4	60.0	50.0	13.8	22.6	L1
15	23.49950	34.7	21.0	1.3	36.0	22.3	60.0	50.0	24.0	27.7	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 0.8m above the reference ground plane and 3m 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 0.15m above the reference ground plane.

Rotate the EUT from 0° to 360° and position the receiving antenna at heights from 1 to 4m 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 1GHz frequency range, Quasi-Peak detector with 120kHz RBW was used.

Also Peak and Average detector with 1MHz RBW were used for above 1GHz 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	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40GHz, whichever is lower

(1) Limit for Radiated Emission below 1000MHz

Frequency range (MHz)	Class A Equipment (10m distance)	Class B Equipment (3m 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 1000	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 (10m distance)	Class B Equipment (10m distance)
	Quasi-peak (dB μ V/m)	Quasi-peak (dB μ V/m)
30 to 230	40	30
230 to 1000	47	37

(2) Limits for Radiated Emission above 1000MHz at a measuring distance of 3m

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

Test Result

< HDMI MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

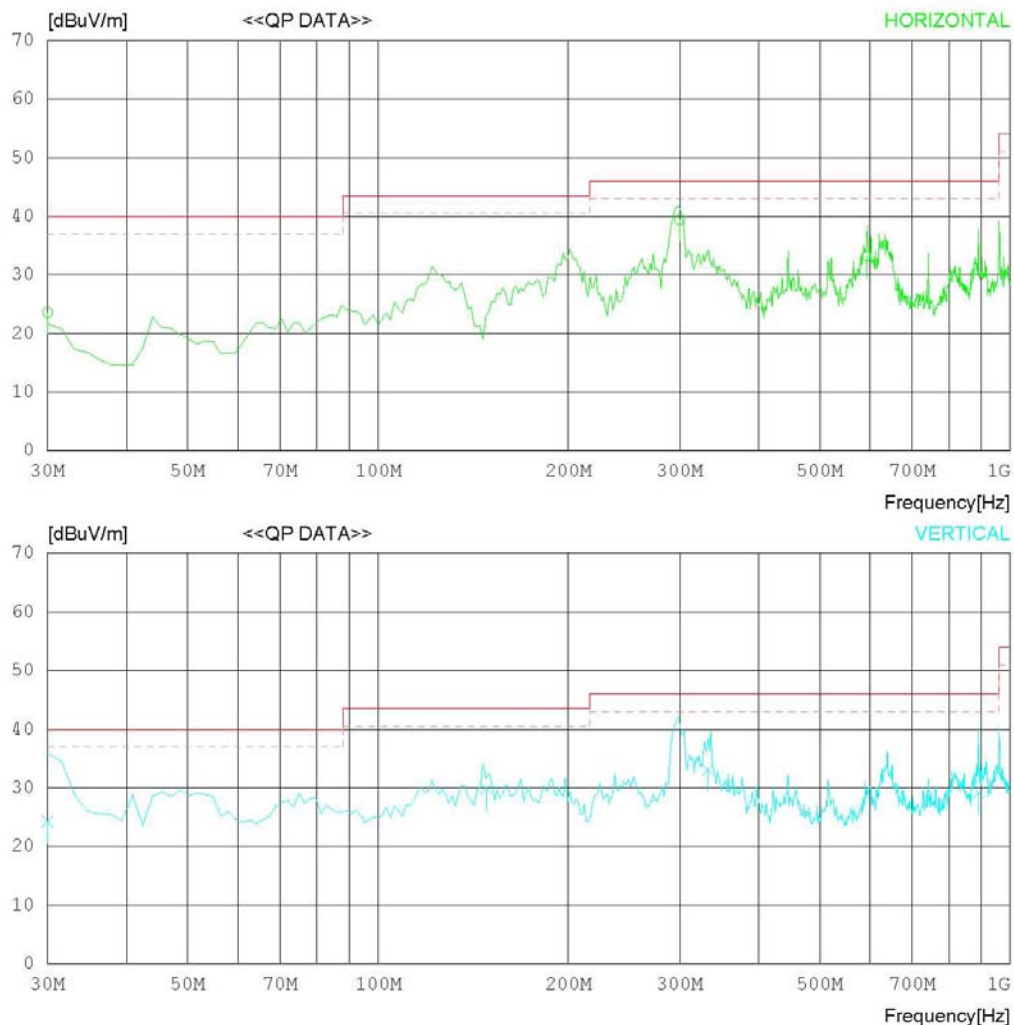
Date : 2012-06-20

Model Name : 42LS3450-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 24 °C 42 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2012-06-20

Model Name : 42LS3450-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 24 °C 42 % 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	30.000	27.6	18.4	0.8	23.2	23.6	40.0	16.4	113	124
2	300.179	47.4	13.1	2.8	23.9	39.4	46.0	6.6	171	203
3	593.387	35.3	18.5	4.1	24.7	33.2	46.0	12.8	155	197
----- Vertical -----										
4	30.000	28.3	18.4	0.8	23.2	24.3	40.0	15.7	100	137
5	148.350	40.6	10.7	1.7	23.1	29.9	43.5	13.6	100	319
6	332.737	40.0	14.0	3.2	24.1	33.1	46.0	12.9	115	202
7	891.889	26.6	20.6	5.2	23.2	29.2	46.0	16.8	145	158

< HDMI MODE_1 GHz ~ 6 GHz_Peak >

RADIATED EMISSION

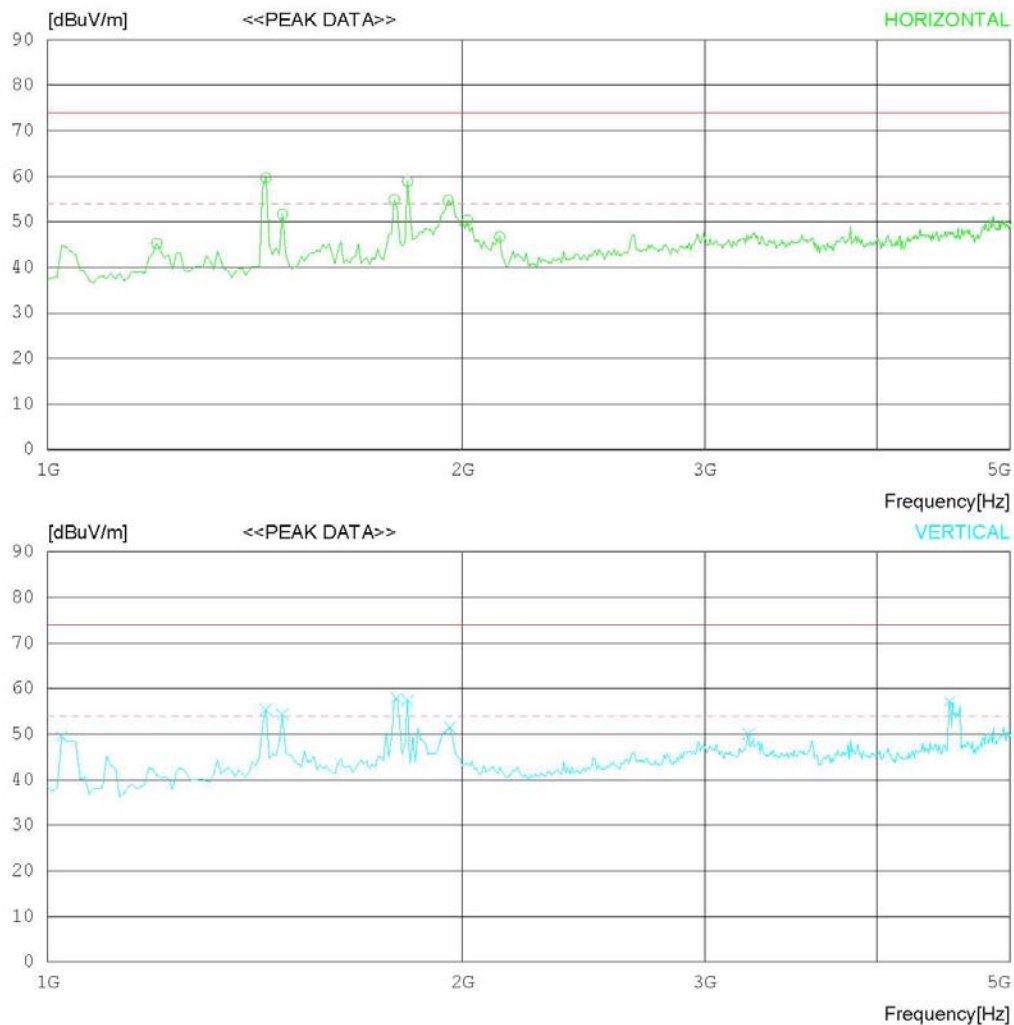
Date : 2012-06-20

Model Name : 42LS3450-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 24 °C 42 % 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 : 2012-06-20

Model Name : 42LS3450-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 24 °C 42 % 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	1200.320	56.6	24.2	6.4	41.9	45.3	74.0	28.7	100	1
2	1440.705	69.4	24.6	7.3	41.6	59.7	74.0	14.3	100	235
3	1480.769	61.3	24.6	7.4	41.6	51.7	74.0	22.3	100	1
4	1785.256	64.1	24.6	8.0	41.8	54.9	74.0	19.1	100	1
5	1825.320	68.0	24.6	8.1	41.8	58.9	74.0	15.1	100	235
6	1953.525	63.4	24.6	8.4	41.7	54.7	74.0	19.3	100	227
7	2017.628	58.9	24.7	8.5	41.7	50.4	74.0	23.6	100	235
8	2129.809	54.4	25.3	8.7	41.7	46.7	74.0	27.3	100	218
----- Vertical -----										
9	1024.038	61.5	23.9	5.8	41.8	49.4	74.0	24.6	100	358
10	1440.705	65.1	24.6	7.3	41.6	55.4	74.0	18.6	100	164
11	1480.769	64.0	24.6	7.4	41.6	54.4	74.0	19.6	100	358
12	1793.269	67.0	24.6	8.1	41.8	57.9	74.0	16.1	100	140
13	1825.320	66.5	24.6	8.1	41.8	57.4	74.0	16.6	100	358
14	1961.538	60.2	24.6	8.4	41.7	51.5	74.0	22.5	100	358
15	3227.581	51.9	28.9	11.1	41.8	50.1	74.0	23.9	100	176
16	4517.652	54.6	31.0	13.5	42.0	57.1	74.0	16.9	100	358

< HDMI MODE_1 GHz ~ 6 GHz_Average >

RADIATED EMISSION

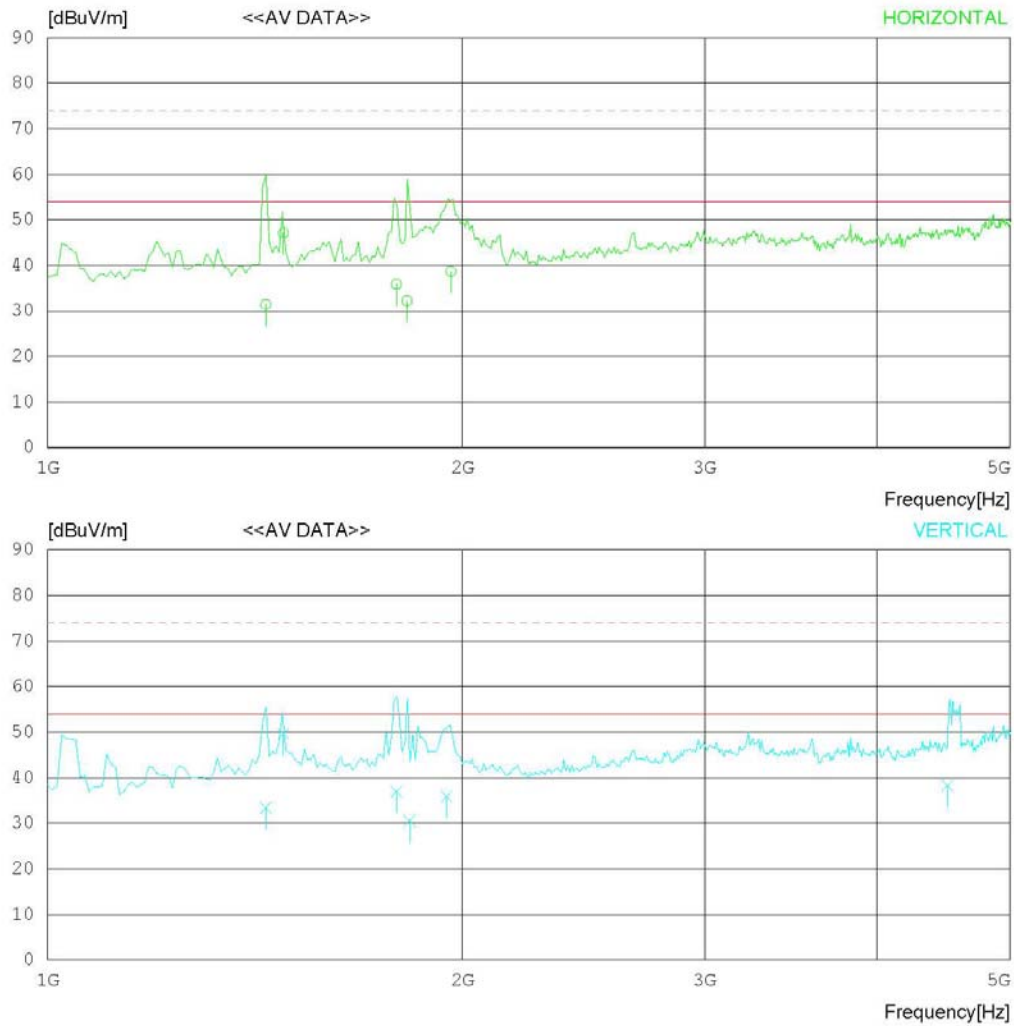
Date : 2012-06-20

Model Name : 42LS3450-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 24 'C 42 % 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 : 2012-06-20

Model Name : 42LS3450-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 24 °C 42 % 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	1440.048	41.1	24.6	7.3	41.6	31.4	54.0	22.6	100	235
2	1483.496	56.7	24.6	7.4	41.6	47.1	54.0	6.9	100	231
3	1792.000	45.0	24.6	8.1	41.8	35.9	54.0	18.1	100	215
4	1823.987	41.3	24.6	8.1	41.8	32.2	54.0	21.8	100	235
5	1962.859	47.4	24.6	8.4	41.7	38.7	54.0	15.3	100	227
----- Vertical -----										
6	1440.048	43.1	24.6	7.3	41.6	33.4	54.0	20.6	100	164
7	1483.497	59.3	24.6	7.4	41.6	49.7	54.0	4.3	100	358
8	1793.263	46.1	24.6	8.1	41.8	37.0	54.0	17.0	100	44
9	1832.115	39.6	24.6	8.1	41.8	30.5	54.0	23.5	100	213
10	1949.843	44.6	24.6	8.4	41.7	35.9	54.0	18.1	100	358
11	4505.831	35.9	30.9	13.5	42.0	38.3	54.0	15.7	100	358

< USB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

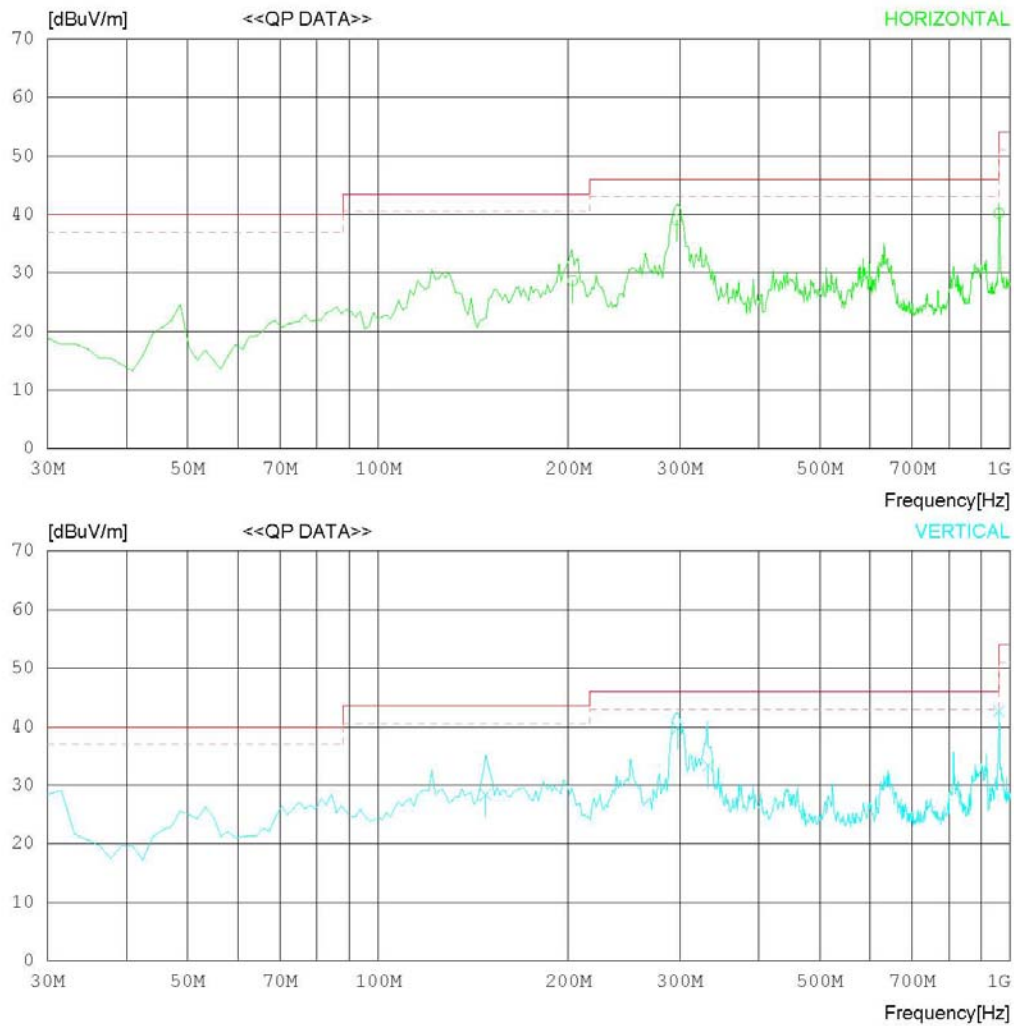
Date : 2012-06-20

Model Name : 42LS3450-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 24 °C 42 % R.H.
Operator :

Memo :

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



RADIATED EMISSION

Date : 2012-06-20

Model Name : 42LS3450-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 24 °C 42 % 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	203.248	40.4	9.4	2.3	23.4	28.7	43.5	14.8	100	249
2	296.526	47.1	13.1	2.8	23.9	39.1	46.0	6.9	100	202
3	960.000	35.9	21.9	5.4	23.0	40.2	46.0	5.8	100	163
----- Vertical -----										
4	148.000	39.1	10.7	1.7	23.1	28.4	43.5	15.1	100	32
5	297.976	47.8	13.1	2.8	23.9	39.8	46.0	6.2	155	169
6	332.973	40.2	14.0	3.2	24.1	33.3	46.0	12.7	100	1
7	960.000	38.4	21.9	5.4	23.0	42.7	46.0	3.3	150	144

< USB MODE_1 GHz ~ 6 GHz_Peak >

RADIATED EMISSION

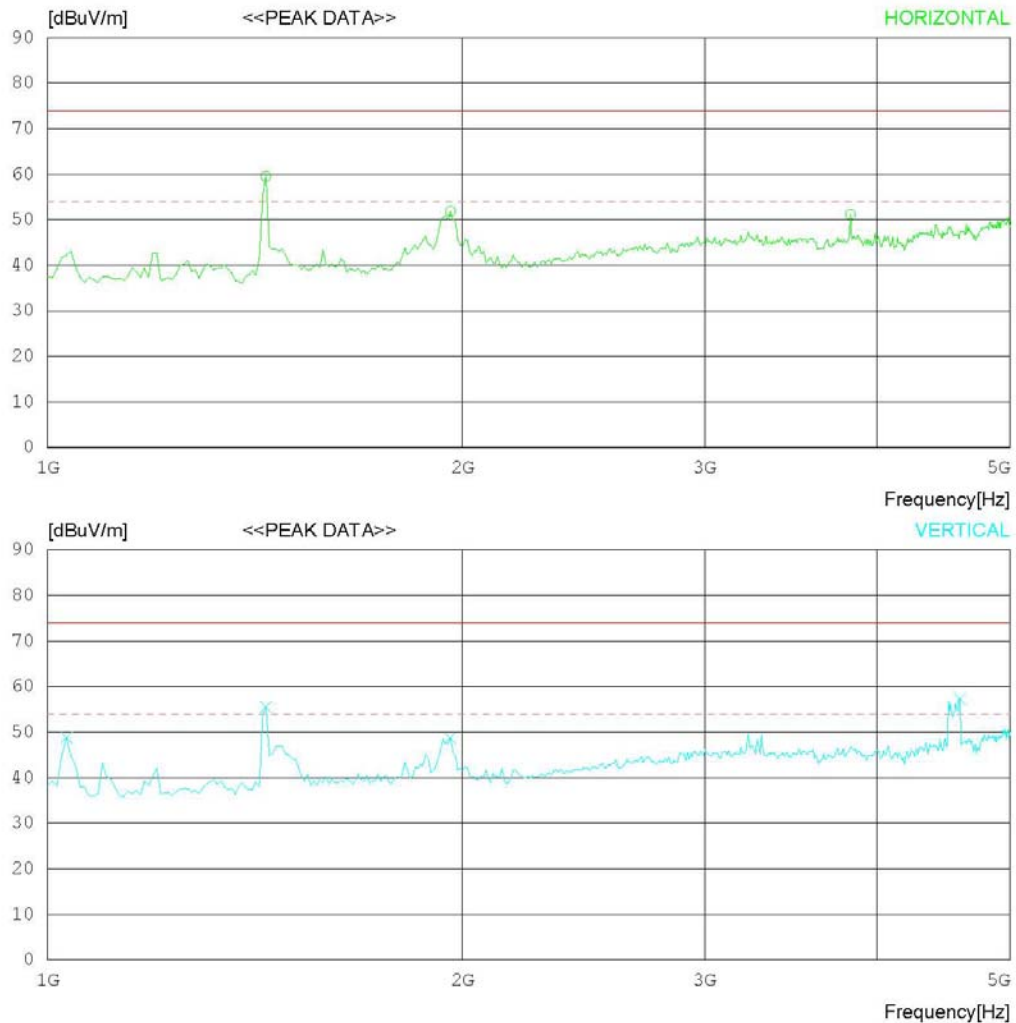
Date : 2012-06-20

Model Name : 42LS3450-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 24 °C 42 % 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 : 2012-06-20

Model Name : 42LS3450-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 24 °C 42 % 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	1440.705	69.3	24.6	7.3	41.6	59.6	74.0	14.4	100	1
2	1961.538	60.6	24.6	8.4	41.7	51.9	74.0	22.1	100	1
3	3828.552	50.8	29.7	12.5	41.8	51.2	74.0	22.8	100	1
----- Vertical -----										
4	1032.051	60.8	23.9	5.9	41.8	48.8	74.0	25.2	100	179
5	1440.705	65.3	24.6	7.3	41.6	55.6	74.0	18.4	100	164
6	1961.538	57.4	24.6	8.4	41.7	48.7	74.0	25.3	100	358
7	4597.779	54.2	31.2	13.8	41.9	57.3	74.0	16.7	100	358

< USB MODE_1 GHz ~ 6 GHz_Average >

RADIATED EMISSION

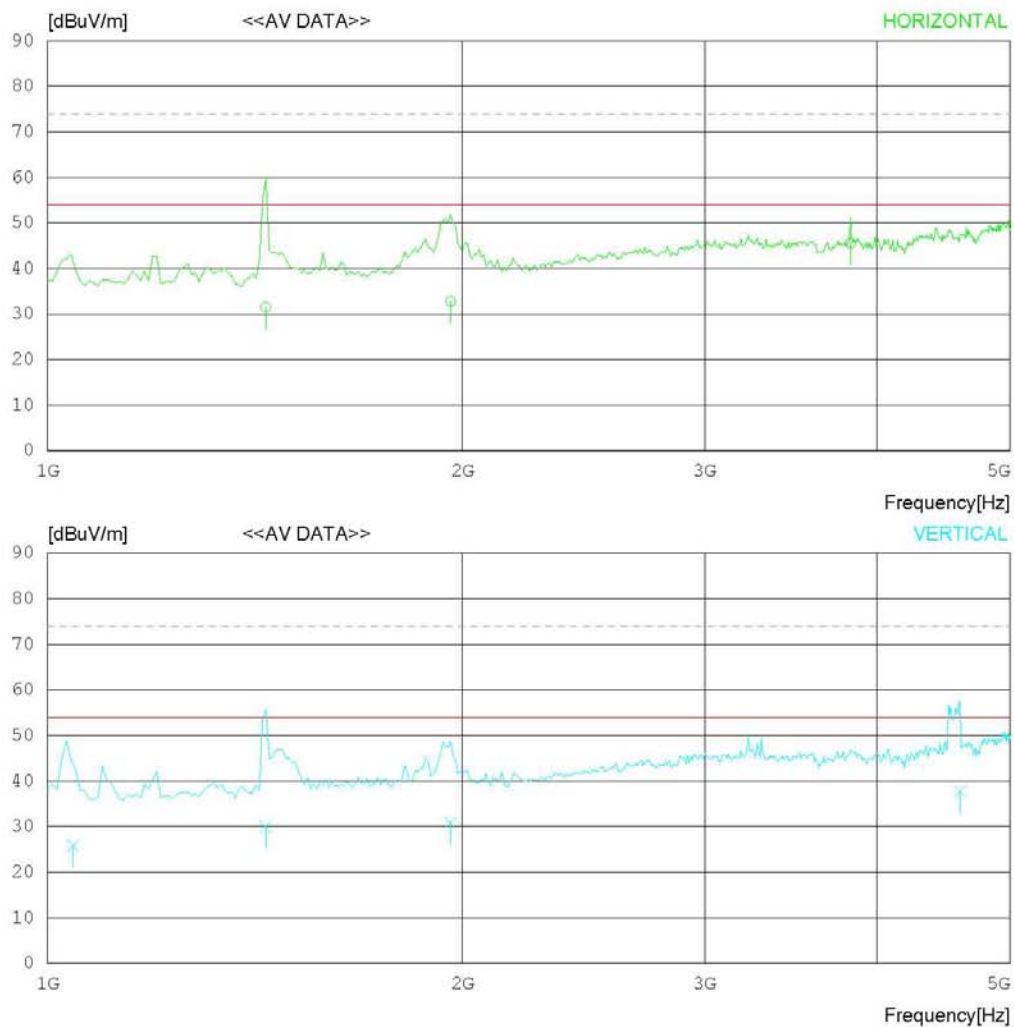
Date : 2012-06-20

Model Name : 42LS3450-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 24 °C 42 % 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 : 2012-06-20

Model Name : 42LS3450-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 24 'C 42 % 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	1440.105	41.2	24.6	7.3	41.6	31.5	54.0	22.5	100	154
2	1961.865	41.5	24.6	8.4	41.7	32.8	54.0	21.2	100	254
3	3828.224	45.2	29.7	12.5	41.8	45.6	54.0	8.4	100	1
----- Vertical -----										
4	1043.698	37.8	23.9	5.9	41.8	25.8	54.0	28.2	100	179
5	1440.105	39.7	24.6	7.3	41.6	30.0	54.0	24.0	100	164
6	1961.538	39.5	24.6	8.4	41.7	30.8	54.0	23.2	100	165
7	4595.477	34.7	31.2	13.8	41.9	37.8	54.0	16.2	100	358

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	2011.07.02	2012.07.02
☐ LISN	KNW-407	KYORITSU	8-317-8	2012.01.09	2013.01.09
☐ LISN	KNW-242	KYORITSU	8-654-15	2011.09.19	2012.09.19
☐ 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	2011.07.02	2012.07.02
☒ 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	2010.12.21	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	2011.07.11	2012.07.11
☐ AMPLIFIER	8447D	AGILENT	2443A03690	2011.07.01	2012.07.01
☐ 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	2010.11.29	2012.11.29
☐ LOG-PERIODIC ANT.	UHALP 9108A	SCHWARZBECK	590	2010.07.07	2012.07.07
☐ BICONICAL ANT.	VHA 9103	SCHWARZBECK	91031946	2010.12.21	2012.12.21
☐ LOG-PERIODIC ANT.	UHALP 9108-A1	SCHWARZBECK	1098	2010.11.29	2012.11.29
☐ AMPLIFIER	MLA-100K01-B01-26	TSJ	1252741	2012.03.05	2013.03.05