

EMC TEST REPORT

Test item : LED TV Monitor
Model No. : 60LA6200-UA
Order No. : 1301-00023
Date of receipt : 2013-01-03
Test duration : 2013-01-11 ~ 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 ~ 23) °C,
Humidity : 31 % R.H.

Test result : ☒ Comply ☐ Not Comply

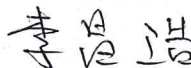
The test results presented in this test report are limited only to the sample supplied by applicant and
the use of this test report is inhibited other than its purpose.

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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.	60LA6200-UA
EUT Type	LED TV Monitor
Serial No	NONE
FCC ID	BEJ60LA6200UA
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
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.)
Conducted Disturbance	01-11	23	31
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]
21.48150	LI	43.1	Average	50.0	6.9

(2) Radiated Emission (HDMI MODE)

Frequency [MHz]	Pol.	Result [dB(μ V/m)]	Detector	Limit [dB(μ V/m)]	Margin [dB]
556.903	V	40.6	Quasi-Peak	46.0	5.4

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 USB USB USB	1.6 1.8 1.6 2.0	Not use Not use Not use Not use	Non-shield Non-shield Non-shield Non-shield	Plastic	DOC
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	AKB73756506	N/A	HANSUNG ELECTRONIC	-	-	-	-	-	-
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

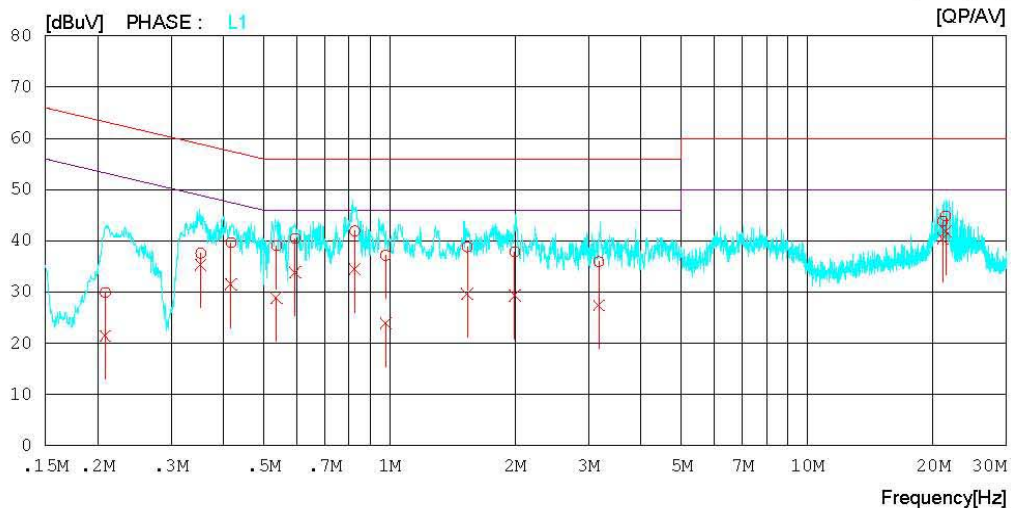
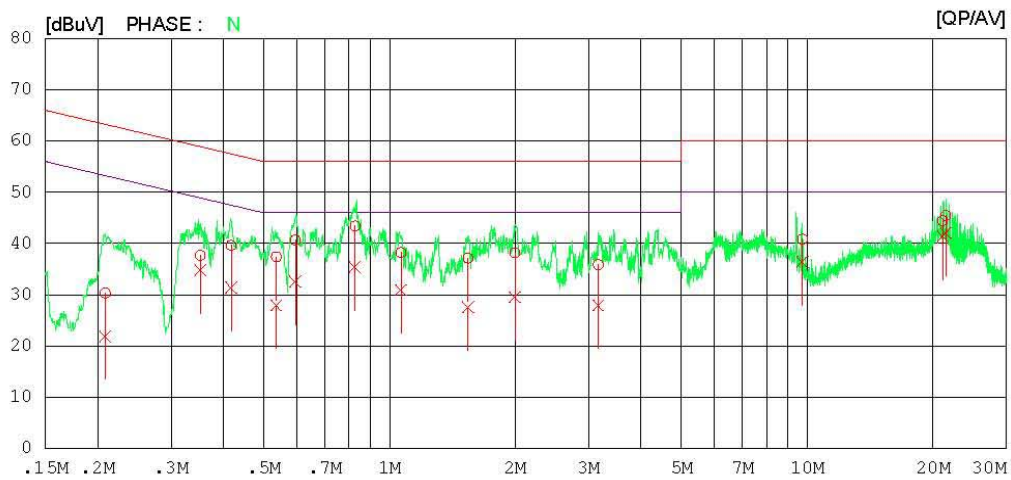
Digital EMC
Date : 2013-01-11

Model No. : 60LA6200-UA
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 23 °C 31 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-01-11

Model No. : 60LA6200-UA
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 23 °C 31 % 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	0.20873	30.1	21.7	0.2	30.3	21.9	63.3	53.3	33.0	31.4	N
2	0.35256	37.5	34.6	0.2	37.7	34.8	58.9	48.9	21.2	14.1	N
3	0.41761	39.4	31.2	0.2	39.6	31.4	57.5	47.5	17.9	16.1	N
4	0.53603	37.2	27.7	0.2	37.4	27.9	56.0	46.0	18.6	18.1	N
5	0.59499	40.5	32.4	0.2	40.7	32.6	56.0	46.0	15.3	13.4	N
6	0.82745	43.2	35.2	0.2	43.4	35.4	56.0	46.0	12.6	10.6	N
7	1.06500	37.9	30.6	0.3	38.2	30.9	56.0	46.0	17.8	15.1	N
8	1.54250	36.8	27.3	0.3	37.1	27.6	56.0	46.0	18.9	18.4	N
9	1.99650	37.9	29.2	0.3	38.2	29.5	56.0	46.0	17.8	16.5	N
10	3.16250	35.5	27.6	0.3	35.8	27.9	56.0	46.0	20.2	18.1	N
11	9.74900	40.1	35.7	0.7	40.8	36.4	60.0	50.0	19.2	13.6	N
12	21.10400	43.5	40.5	0.9	44.4	41.4	60.0	50.0	15.6	8.6	N
13	21.47000	44.5	41.1	0.9	45.4	42.0	60.0	50.0	14.6	8.0	N
14	0.20873	29.7	21.3	0.2	29.9	21.5	63.3	53.3	33.4	31.8	L1
15	0.35339	37.4	35.2	0.2	37.6	35.4	58.9	48.9	21.3	13.5	L1
16	0.41755	39.4	31.3	0.2	39.6	31.5	57.5	47.5	17.9	16.0	L1
17	0.53649	38.9	28.7	0.2	39.1	28.9	56.0	46.0	16.9	17.1	L1
18	0.59453	40.3	33.7	0.2	40.5	33.9	56.0	46.0	15.5	12.1	L1
19	0.82618	41.7	34.3	0.2	41.9	34.5	56.0	46.0	14.1	11.5	L1
20	0.97850	37.0	23.7	0.2	37.2	23.9	56.0	46.0	18.8	22.1	L1
21	1.53500	38.5	29.4	0.3	38.8	29.7	56.0	46.0	17.2	16.3	L1
22	1.99550	37.6	29.0	0.3	37.9	29.3	56.0	46.0	18.1	16.7	L1
23	3.17250	35.7	27.1	0.3	36.0	27.4	56.0	46.0	20.0	18.6	L1
24	21.10300	42.9	39.5	0.9	43.8	40.4	60.0	50.0	16.2	9.6	L1
25	21.46950	43.9	41.0	0.9	44.8	41.9	60.0	50.0	15.2	8.1	L1

< USB MODE >



Results of Conducted Emission

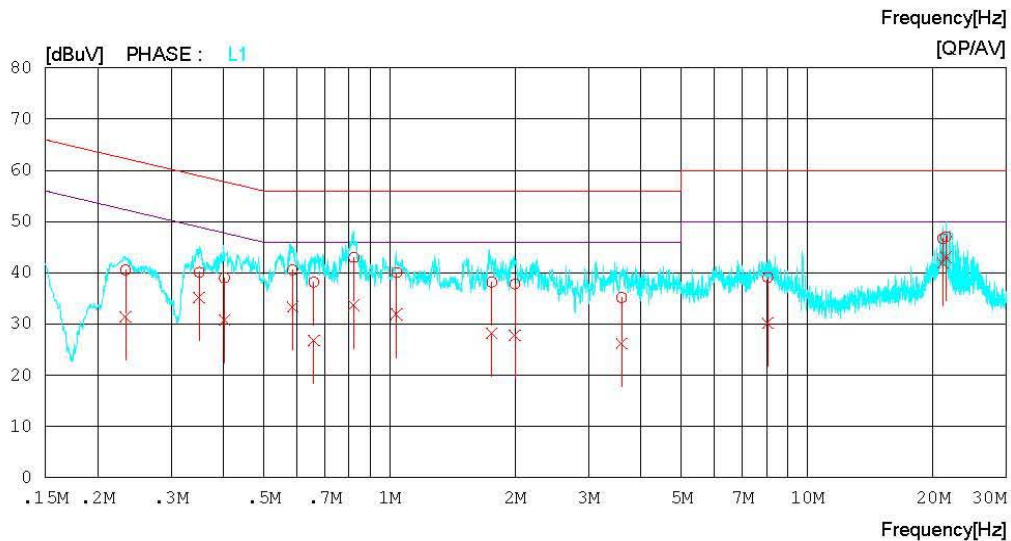
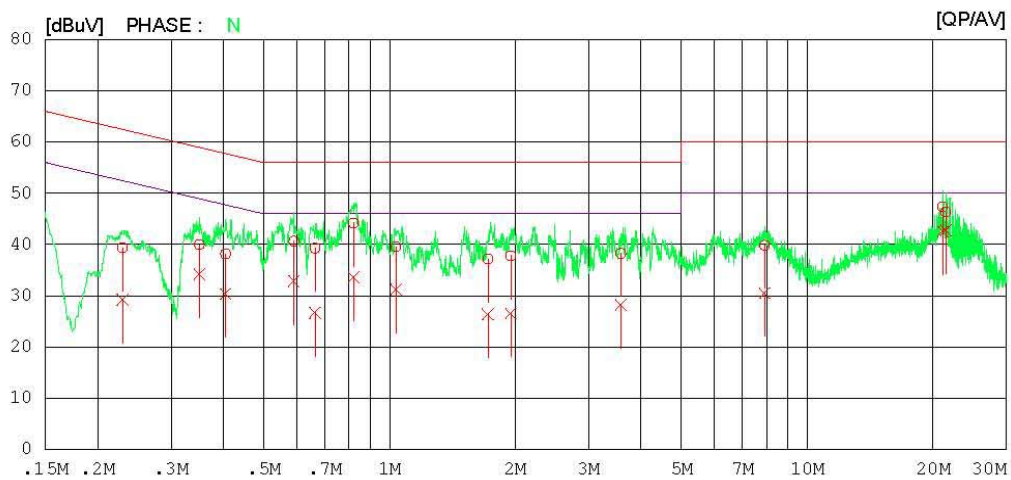
Digital EMC
Date : 2013-01-11

Model No. : 60LA6200-UA
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 23 °C 31 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-01-11

Model No. : 60LA6200-UA
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120V 60Hz
Temp/Humi. : 23 °C 31 % 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	0.22950	39.2	29.0	0.2	39.4	29.2	62.5	52.5	23.1	23.3	N
2	0.35089	39.8	34.0	0.2	40.0	34.2	58.9	48.9	18.9	14.7	N
3	0.40500	38.0	30.1	0.2	38.2	30.3	57.8	47.8	19.6	17.5	N
4	0.59039	40.4	32.6	0.2	40.6	32.8	56.0	46.0	15.4	13.2	N
5	0.66309	39.1	26.4	0.2	39.3	26.6	56.0	46.0	16.7	19.4	N
6	0.82068	44.0	33.4	0.2	44.2	33.6	56.0	46.0	11.8	12.4	N
7	1.03650	39.2	30.9	0.3	39.5	31.2	56.0	46.0	16.5	14.8	N
8	1.72050	36.9	26.1	0.3	37.2	26.4	56.0	46.0	18.8	19.6	N
9	1.95250	37.5	26.2	0.3	37.8	26.5	56.0	46.0	18.2	19.5	N
10	3.58100	38.0	27.9	0.3	38.3	28.2	56.0	46.0	17.7	17.8	N
11	7.91200	39.3	30.0	0.5	39.8	30.5	60.0	50.0	20.2	19.5	N
12	21.11250	46.5	41.6	0.9	47.4	42.5	60.0	50.0	12.6	7.5	N
13	21.47650	45.4	41.9	0.9	46.3	42.8	60.0	50.0	13.7	7.2	N
14	0.23334	40.3	31.2	0.2	40.5	31.4	62.3	52.3	21.8	20.9	L1
15	0.35025	39.9	35.0	0.2	40.1	35.2	59.0	49.0	18.9	13.8	L1
16	0.40285	38.8	30.6	0.2	39.0	30.8	57.8	47.8	18.8	17.0	L1
17	0.58638	40.4	33.2	0.2	40.6	33.4	56.0	46.0	15.4	12.6	L1
18	0.65885	38.0	26.6	0.2	38.2	26.8	56.0	46.0	17.8	19.2	L1
19	0.82155	42.8	33.5	0.2	43.0	33.7	56.0	46.0	13.0	12.3	L1
20	1.04000	39.8	31.6	0.3	40.1	31.9	56.0	46.0	15.9	14.1	L1
21	1.75750	37.9	27.9	0.3	38.2	28.2	56.0	46.0	17.8	17.8	L1
22	1.99700	37.5	27.5	0.3	37.8	27.8	56.0	46.0	18.2	18.2	L1
23	3.59850	34.9	25.9	0.3	35.2	26.2	56.0	46.0	20.8	19.8	L1
24	8.04900	38.6	29.7	0.5	39.1	30.2	60.0	50.0	20.9	19.8	L1
25	21.11450	45.8	41.1	0.9	46.7	42.0	60.0	50.0	13.3	8.0	L1
26	21.48150	46.2	42.2	0.9	47.1	43.1	60.0	50.0	12.9	6.9	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

< HDMI MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

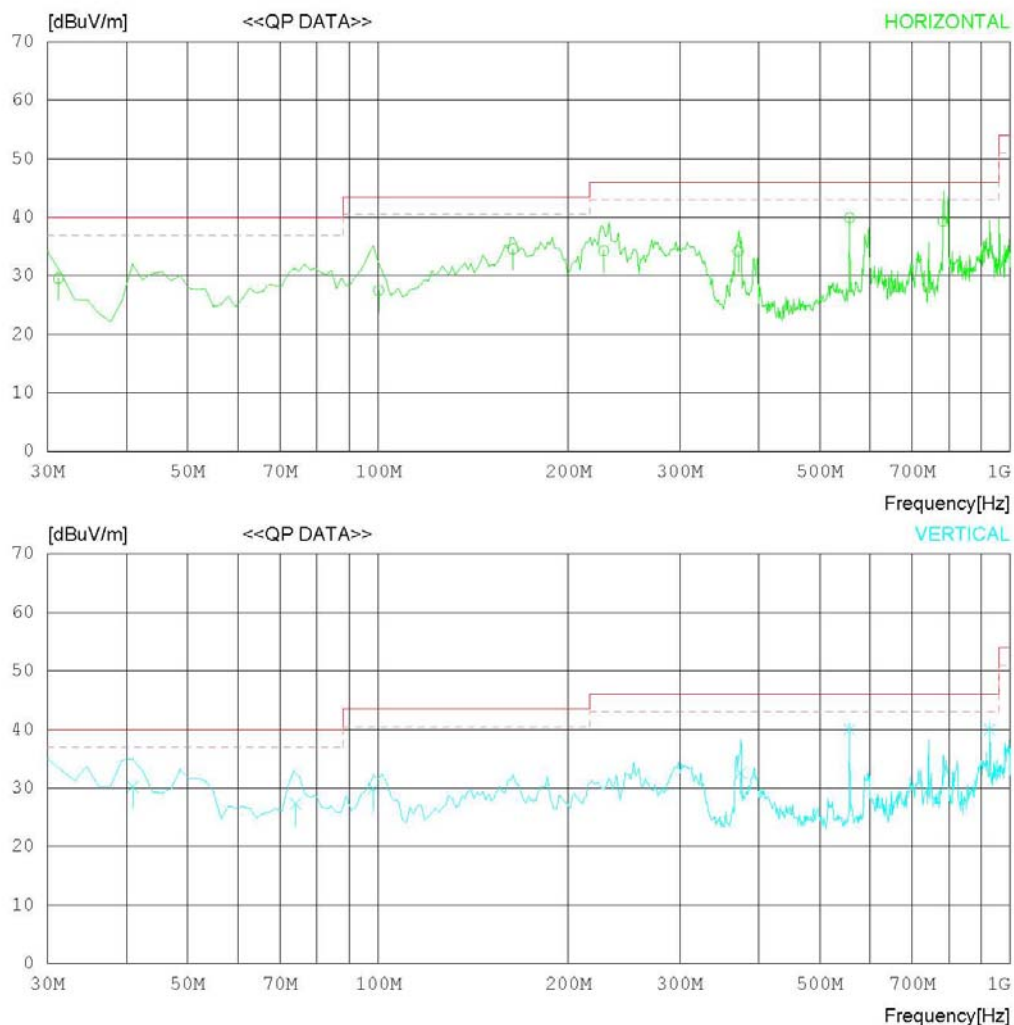
Date : 2013-01-12

Model Name : 60LA6200-UA
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 : 2013-01-12

Model Name : 60LA6200-UA
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

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	31.185	34.6	17.3	0.9	23.2	29.6	40.0	10.4	100	289
2	100.179	38.2	10.7	1.4	22.8	27.5	43.5	16.0	100	46
3	163.490	45.8	10.1	1.9	23.2	34.6	43.5	8.9	100	181
4	227.516	44.0	11.3	2.5	23.5	34.3	46.0	11.7	100	217
5	371.224	39.7	15.4	3.4	24.3	34.2	46.0	11.8	100	165
6	556.881	42.8	18.1	3.8	24.8	39.9	46.0	6.1	100	45
7	783.321	38.7	19.7	4.8	23.9	39.3	46.0	6.7	100	243
----- Vertical -----										
8	40.952	39.0	13.1	1.1	23.0	30.2	40.0	9.8	100	168
9	74.137	41.8	6.7	1.6	22.8	27.3	40.0	12.7	100	192
10	98.308	40.9	10.4	1.4	22.8	29.9	43.5	13.6	199	358
11	374.724	38.0	15.5	3.4	24.3	32.6	46.0	13.4	100	188
12	556.894	42.9	18.1	3.8	24.8	40.0	46.0	6.0	100	221
13	928.160	36.5	21.2	5.3	23.0	40.0	46.0	6.0	100	1

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

RADIATED EMISSION

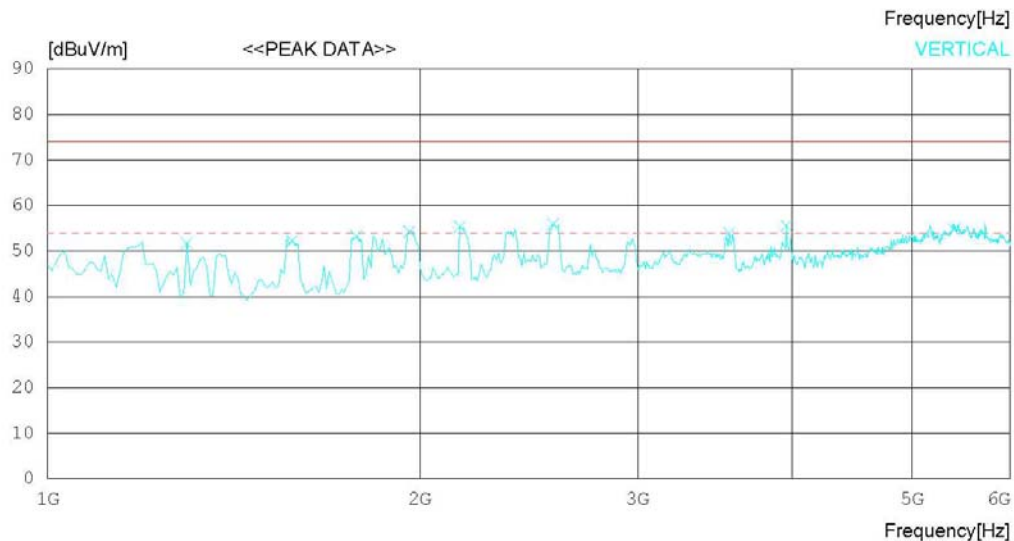
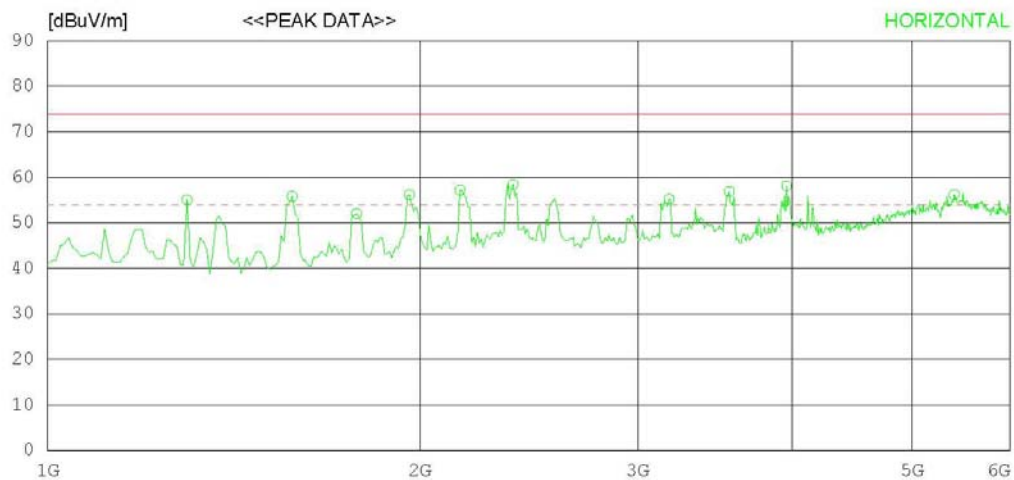
Date : 2013-01-12

Model Name : 60LA6200-UA
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(Peak)
FCC Part15 Subpart.B Class B (3m) - 18G(Avg)



RADIATED EMISSION

Date : 2013-01-12

Model Name : 60LA6200-UA	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(Peak)
FCC Part15 Subpart B Class B (3m) - 18G(Avg)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	1296.474	52.5	24.3	6.8	28.5	55.1	74.0	18.9	100	205
2	1576.923	52.1	24.6	7.6	28.5	55.8	74.0	18.2	100	358
3	1777.243	47.9	24.6	8.0	28.5	52.0	74.0	22	100	358
4	1961.538	51.7	24.6	8.4	28.5	56.2	74.0	17.8	100	358
5	2153.847	51.5	25.4	8.8	28.5	57.2	74.0	16.8	100	191
6	2378.210	50.9	26.7	9.3	28.5	58.4	74.0	15.6	100	206
7	3179.504	43.8	28.9	10.9	28.4	55.2	74.0	18.8	100	193
8	3556.112	44.4	29.0	11.8	28.3	56.9	74.0	17.1	100	358
9	3956.759	43.6	30.0	12.8	28.3	58.1	74.0	15.9	100	203
10	5407.061	34.7	34.6	15.0	28.1	56.2	74.0	17.8	100	115
----- Vertical -----										
11	1296.474	49.1	24.3	6.8	28.5	51.7	74.0	22.3	100	75
12	1576.923	48.6	24.6	7.6	28.5	52.3	74.0	21.7	100	197
13	1777.243	49.2	24.6	8.0	28.5	53.3	74.0	20.7	100	236
14	1961.538	49.8	24.6	8.4	28.5	54.3	74.0	19.7	100	1
15	2153.847	49.6	25.4	8.8	28.5	55.3	74.0	18.7	100	146
16	2562.507	47.0	27.6	9.7	28.4	55.9	74.0	18.1	100	1
17	3556.112	41.4	29.0	11.8	28.3	53.9	74.0	20.1	100	216
18	3956.759	41.0	30.0	12.8	28.3	55.5	74.0	18.5	100	1
19	5407.061	33.3	34.6	15.0	28.1	54.8	74.0	19.2	100	1

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

RADIATED EMISSION

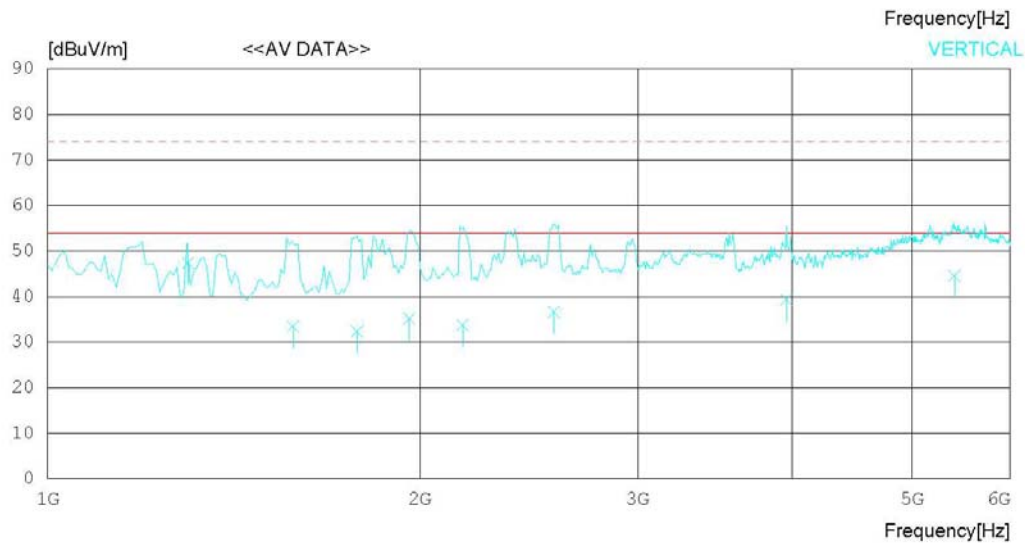
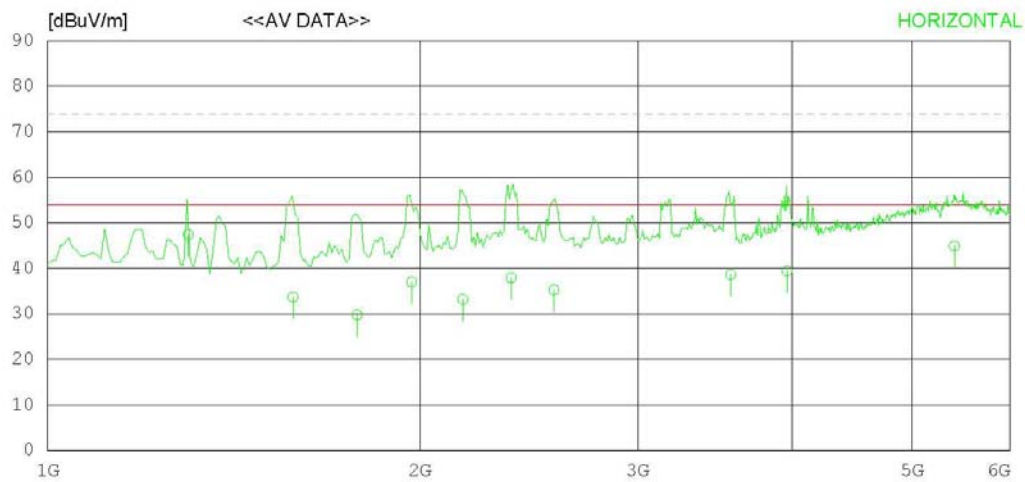
Date : 2013-01-12

Model Name : 60LA6200-UA
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 : 60LA6200-UA	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	1299.423	44.8	24.3	6.8	28.5	47.4	54.0	6.6	100	213
2	1578.795	30.0	24.6	7.6	28.5	33.7	54.0	20.3	100	358
3	1778.923	25.7	24.6	8.0	28.5	29.8	54.0	24.2	100	358
4	1969.487	32.5	24.6	8.4	28.5	37.0	54.0	17.0	100	181
5	2165.840	27.4	25.5	8.8	28.5	33.2	54.0	20.8	100	191
6	2370.067	30.4	26.7	9.3	28.5	37.9	54.0	16.1	100	206
7	2565.897	26.3	27.7	9.7	28.4	35.3	54.0	18.7	100	193
8	3564.926	26.0	29.0	11.9	28.3	38.6	54.0	15.4	100	216
9	3960.833	24.8	30.1	12.8	28.3	39.4	54.0	14.6	100	203
10	5407.061	23.4	34.6	15.0	28.1	44.9	54.0	9.1	100	115
----- Vertical -----										
11	1299.423	44.8	24.3	6.8	28.5	47.4	54.0	6.6	100	75
12	1578.794	29.7	24.6	7.6	28.5	33.4	54.0	20.6	100	185
13	1778.923	28.3	24.6	8.0	28.5	32.4	54.0	21.6	100	236
14	1961.538	30.6	24.6	8.4	28.5	35.1	54.0	18.9	100	205
15	2165.833	28.0	25.5	8.8	28.5	33.8	54.0	20.2	100	146
16	2565.897	27.6	27.7	9.7	28.4	36.6	54.0	17.4	100	181
17	3956.759	24.8	30.0	12.8	28.3	39.3	54.0	14.7	100	199
18	5407.061	23.1	34.6	15.0	28.1	44.6	54.0	9.4	100	1

< USB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

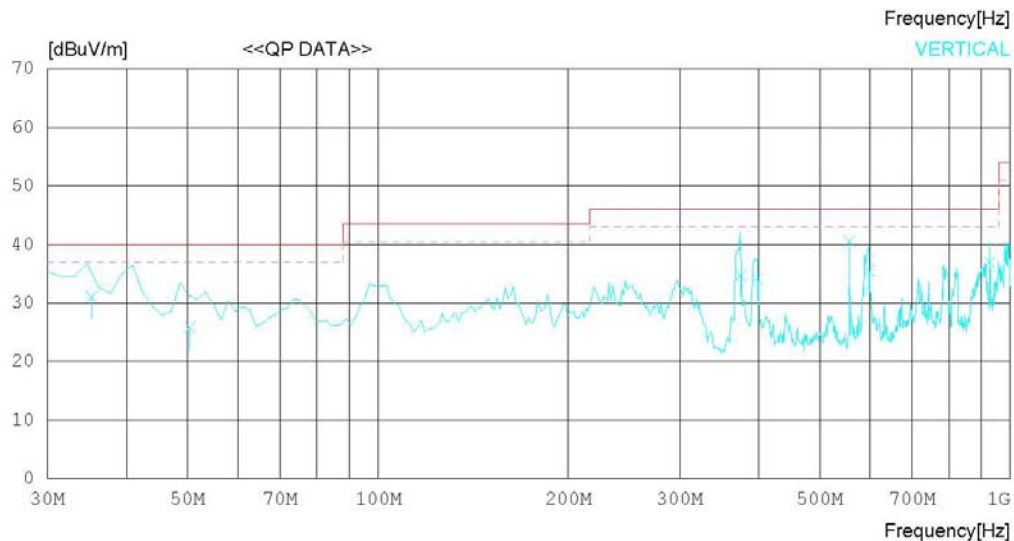
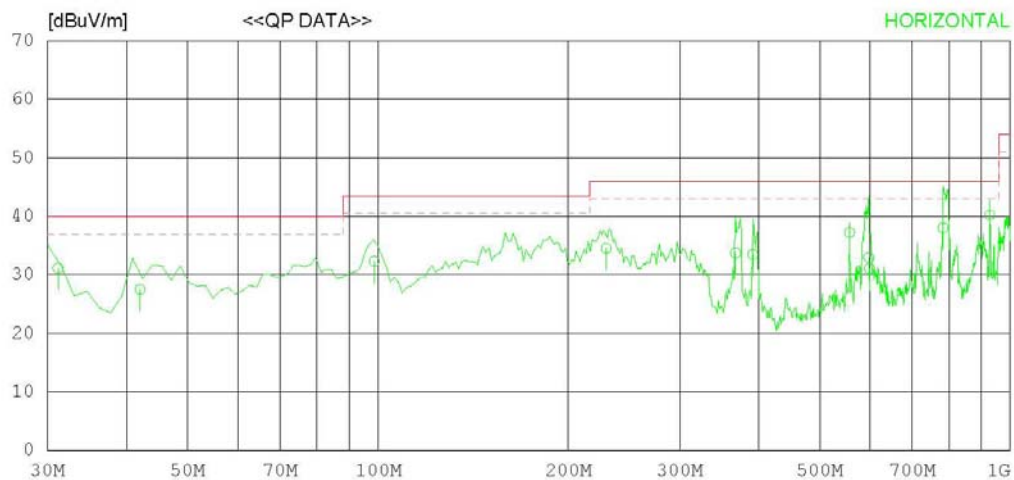
Date : 2013-01-12

Model Name : 60LA6200-UA
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 : 2013-01-12

Model Name : 60LA6200-UA
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

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	31.173	36.1	17.3	0.9	23.2	31.1	40.0	8.9	177	301
2	41.990	36.0	13.3	1.1	22.9	27.5	40.0	12.5	100	211
3	98.598	43.3	10.4	1.4	22.8	32.3	43.5	11.2	160	127
4	229.497	44.0	11.5	2.5	23.5	34.5	46.0	11.5	112	215
5	367.714	39.3	15.3	3.4	24.3	33.7	46.0	12.3	229	137
6	391.681	38.6	15.8	3.5	24.4	33.5	46.0	12.5	174	169
7	556.880	40.1	18.1	3.8	24.8	37.2	46.0	8.8	153	265
8	597.447	34.9	18.7	4.1	24.7	33.0	46.0	13.0	200	178
9	599.185	33.0	18.7	4.1	24.7	31.1	46.0	14.9	115	151
10	783.271	37.4	19.7	4.8	23.9	38.0	46.0	8.0	139	223
11	928.235	36.7	21.2	5.3	23.0	40.2	46.0	5.8	140	219
----- Vertical -----										
12	35.252	37.9	15.1	1.1	23.1	31.0	40.0	9.0	133	196
13	50.322	39.1	8.2	1.4	22.8	25.9	40.0	14.1	147	273
14	374.702	40.1	15.5	3.4	24.3	34.7	46.0	11.3	129	161
15	398.438	39.1	16.0	3.5	24.5	34.1	46.0	11.9	105	193
16	556.903	43.5	18.1	3.8	24.8	40.6	46.0	5.4	147	0
17	597.804	37.5	18.7	4.1	24.7	35.6	46.0	10.4	127	194
18	928.118	33.5	21.2	5.3	23.0	37.0	46.0	9.0	102	79

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

RADIATED EMISSION

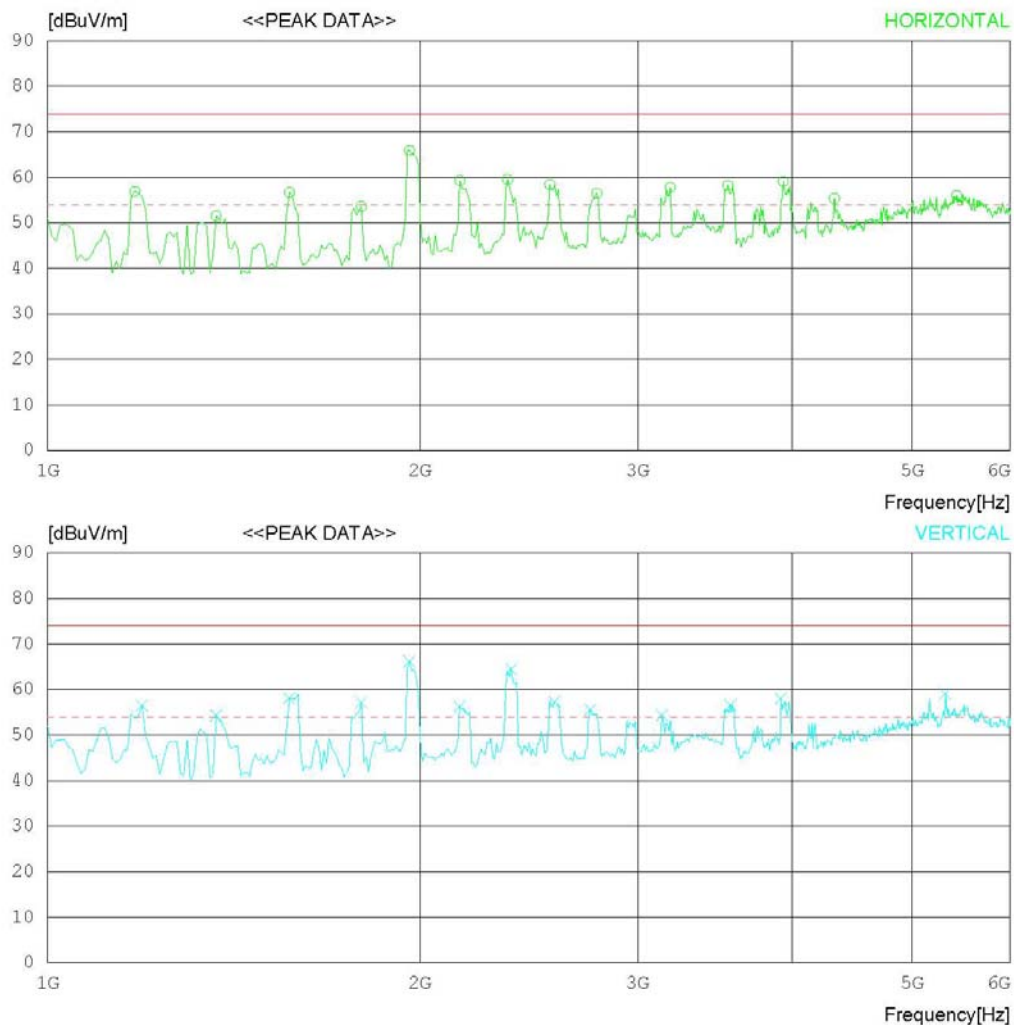
Date : 2013-01-12

Model Name : 60LA6200-UA
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 : 60LA6200-UA
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)

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	1176.282	54.9	24.1	6.4	28.5	56.9	74.0	17.1	100	223
2	1368.590	48.6	24.4	7.0	28.5	51.5	74.0	22.5	100	232
3	1568.910	53.0	24.6	7.6	28.5	56.7	74.0	17.3	100	154
4	1793.269	49.4	24.6	8.1	28.5	53.6	74.0	20.4	100	249
5	1961.538	61.4	24.6	8.4	28.5	65.9	74.0	8.1	100	358
6	2153.847	53.6	25.4	8.8	28.5	59.3	74.0	14.7	100	194
7	2354.171	52.2	26.6	9.2	28.5	59.5	74.0	14.5	100	227
8	2546.481	49.6	27.6	9.6	28.4	58.4	74.0	15.6	100	196
9	2778.857	46.5	28.3	10.1	28.4	56.5	74.0	17.5	100	358
10	3187.517	46.3	28.9	11.0	28.4	57.8	74.0	16.2	100	358
11	3548.099	45.7	29.0	11.8	28.3	58.2	74.0	15.8	100	358
12	3932.720	44.6	30.0	12.8	28.3	59.1	74.0	14.9	100	358
13	4325.347	39.7	30.6	13.3	28.2	55.4	74.0	18.6	100	358
14	5431.099	34.5	34.7	14.9	28.1	56.0	74.0	18	100	231
----- Vertical -----										
15	1192.308	54.4	24.2	6.4	28.5	56.5	74.0	17.5	100	1
16	1368.590	51.4	24.4	7.0	28.5	54.3	74.0	19.7	100	196
17	1568.910	54.4	24.6	7.6	28.5	58.1	74.0	15.9	100	188
18	1793.269	53.0	24.6	8.1	28.5	57.2	74.0	16.8	100	1
19	1961.538	61.7	24.6	8.4	28.5	66.2	74.0	7.8	100	1
20	2153.847	50.6	25.4	8.8	28.5	56.3	74.0	17.7	100	210
21	2370.197	57.0	26.7	9.3	28.5	64.5	74.0	9.5	100	186
22	2570.520	48.3	27.7	9.7	28.4	57.3	74.0	16.7	100	201
23	2746.805	45.8	28.2	10.0	28.4	55.6	74.0	18.4	100	169
24	3139.439	43.0	29.0	10.8	28.4	54.4	74.0	19.6	100	1
25	3564.125	44.0	29.0	11.9	28.3	56.6	74.0	17.4	100	1
26	3916.694	43.7	29.9	12.7	28.3	58.0	74.0	16	100	1
27	5318.921	38.0	34.1	15.1	28.1	59.1	74.0	14.9	100	230

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

RADIATED EMISSION

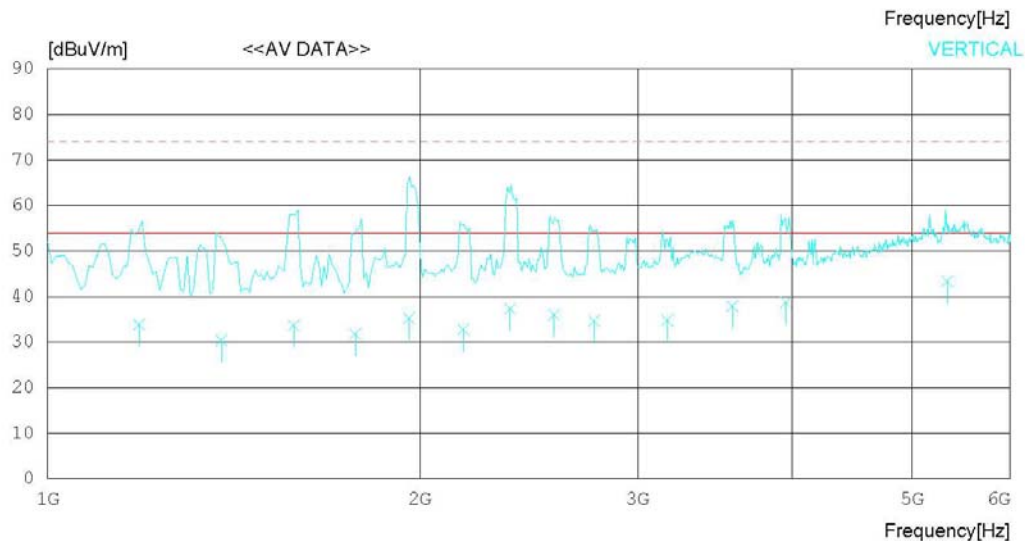
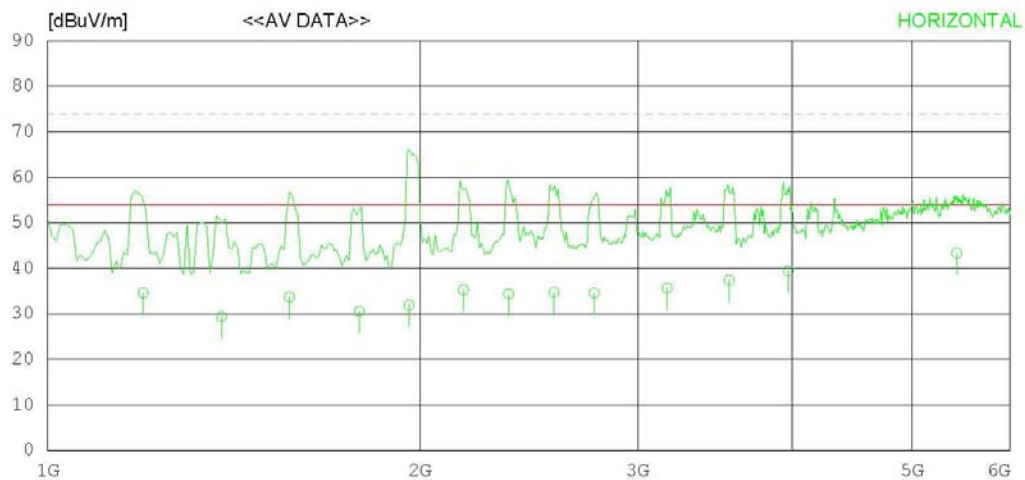
Date : 2013-01-12

Model Name : 60LA6200-UA
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 : 60LA6200-UA
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)

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	1194.878	32.5	24.2	6.4	28.5	34.6	54.0	19.4	100	223
2	1382.423	26.3	24.5	7.1	28.5	29.4	54.0	24.6	100	232
3	1568.910	30.0	24.6	7.6	28.5	33.7	54.0	20.3	100	124
4	1786.540	26.5	24.6	8.0	28.5	30.6	54.0	23.4	100	249
5	1959.865	27.4	24.6	8.4	28.5	31.9	54.0	22.1	100	185
6	2168.722	29.5	25.5	8.8	28.5	35.3	54.0	18.7	100	135
7	2359.009	27.1	26.6	9.2	28.5	34.4	54.0	19.6	100	189
8	2566.368	25.8	27.7	9.7	28.4	34.8	54.0	19.2	100	201
9	2765.715	24.6	28.3	10.1	28.4	34.6	54.0	19.4	100	191
10	3167.603	24.3	28.9	10.9	28.4	35.7	54.0	18.3	100	180
11	3556.013	24.9	29.0	11.8	28.3	37.4	54.0	16.6	100	184
12	3969.551	24.8	30.1	12.9	28.3	39.5	54.0	14.5	100	195
13	5431.099	21.8	34.7	14.9	28.1	43.3	54.0	10.7	100	231
----- Vertical -----										
14	1185.903	31.8	24.2	6.4	28.5	33.9	54.0	20.1	100	183
15	1382.430	27.3	24.5	7.1	28.5	30.4	54.0	23.6	100	196
16	1581.163	29.9	24.6	7.7	28.5	33.7	54.0	20.3	100	191
17	1772.580	27.7	24.6	8.0	28.5	31.8	54.0	22.2	100	202
18	1959.865	30.8	24.6	8.4	28.5	35.3	54.0	18.7	100	228
19	2168.721	27.0	25.5	8.8	28.5	32.8	54.0	21.2	100	195
20	2364.939	29.9	26.7	9.2	28.5	37.3	54.0	16.7	100	186
21	2567.868	27.0	27.7	9.7	28.4	36.0	54.0	18.0	100	180
22	2765.715	24.6	28.3	10.1	28.4	34.6	54.0	19.4	100	169
23	3169.205	23.4	28.9	10.9	28.4	34.8	54.0	19.2	100	214
24	3578.435	25.2	29.1	11.9	28.3	37.9	54.0	16.1	100	1
25	3953.198	24.3	30.0	12.8	28.3	38.8	54.0	15.2	100	43
26	5337.288	22.3	34.2	15.0	28.1	43.4	54.0	10.6	100	230

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