

EMC TEST REPORT

Test item : LED TV Monitor
Model No. : 55LA6205-UA
Order No. : DEMC1301-00415
Date of receipt : 2013-01-30
Test duration : 2013-02-05 ~ 2013-02-06
Use of report : FCC CoC Marking
Date of Issue : 2013-02-14

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 ~ 21) °C,
Humidity : (38 ~ 40) % 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
JunHo Park

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.	55LA6205-UA
EUT Type	LED TV Monitor
Serial No	NONE
FCC ID	BEJ55LA6205UA
Type of Sample Tested	Pre-Production
High Frequency	Max 800 MHz
Rating	AC 100-240 V~ 50/60 Hz, 1.5 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

HDMI (PC) supported mode

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

4. Test Summary

4.1 Applied standards and test results

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

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

4.2 Test environment and conditions

Test Items	Test date (MM-DD)	Temp (°C)	Humidity (% R.H.)
Conducted Disturbance	02-05	21	40
Radiated Disturbance	02-06	20	38

4.3 Test result Summary

(1) Conducted Emission (HDMI MODE)

Frequency [MHz]	Phase	Result [dB μ V]	Detector	Limit [dB μ V]	Margin [dB]
0.15037	LI	57.7	Quasi Peak	66.0	8.3

(2) Radiated Emission (USB MODE)

Frequency [MHz]	Pol.	Result [dB(μ V/m)]	Detector	Limit [dB(μ V/m)]	Margin [dB]
783.182	H	42.3	Quasi Peak	46.0	3.7

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 : 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	DCSCMF	G3RZKBX	DELL INC.	POWER	1.8	Not use	Non-shield	Plastic	DOC
				PS/2	1.7	Not use	Non-shield	Plastic	
				PS/2	1.6	Not use	Non-shield	Plastic	
				USB	1.8	Not use	Shield	Plastic	
				HDMI	1.9	Not use	Shield	Plastic	
KEYBOARD	SKG-210P	TAKSC1225 4A	MONITEREY INTERNATIONAL CORP	PS/2	1.7	Not use	Non-shield	Plastic	DOC
MOUSE	SML-510PB	M5PBTAKS6 03018D	MONITEREY INTERNATIONAL CORP	PS/2	1.6	Not use	Non-shield	Plastic	DOC
PRINT	SRP-770	N/A	BIXOLON	DC IN USB	2.0 1.8	Not use Not use	Non-shield Shield	Plastic Plastic	DOC
PRINT AC/DC ADAPTOR	N60-240250-I1	N/A	JIANGSU LEADER ELECTRONICS INC	POWER DC OUT	1.8 2.0	Not use Not use	Non-shield Non-shield	Plastic Plastic	VER
CD/DVD PLAYER	DVP-NS92V	2000407	SONY EMCS.	POWER AV	1.8 1.5	Not use Not use	Non-shield Non-shield	Plastic Plastic	VER
USB MEMORY	CRUZER SLICE 4GB	N/A	SANDISK	USB	-	-	-	Plastic	DOC
REMOTE CONTROL	AN-MR400G	N/A	OHSUNG ELECTRONICS CO., LTD.	-	-	-	-	-	-
HEADSET	COV909	N/A	COSY	STEREO	1.9	Not use	Non-shield	Plastic	VER

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

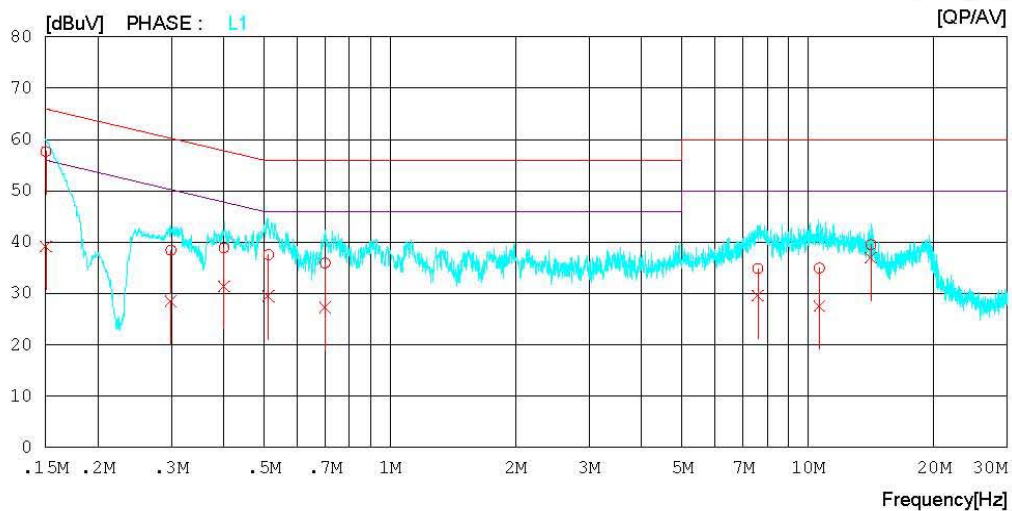
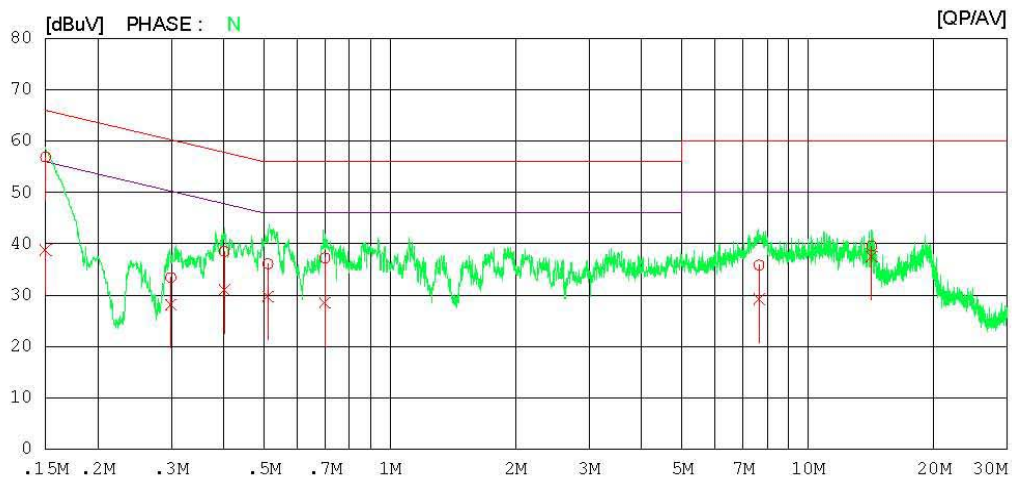
Digital EMC
Date : 2013-02-05

Model No. : 55LA6205-UA
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 21 °C 40 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-02-05

Model No. : 55LA6205-UA
Type :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 21 °C 40 % 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	0.15006	56.7	38.5	0.2	56.9	38.7	66.0	56.0	9.1	17.3	N
2	0.29916	33.2	27.9	0.2	33.4	28.1	60.3	50.3	26.9	22.2	N
3	0.40173	38.3	30.8	0.2	38.5	31.0	57.8	47.8	19.3	16.8	N
4	0.51095	35.9	29.5	0.2	36.1	29.7	56.0	46.0	19.9	16.3	N
5	0.69914	37.0	28.3	0.2	37.2	28.5	56.0	46.0	18.8	17.5	N
6	7.64500	35.4	28.7	0.5	35.9	29.2	60.0	50.0	24.1	20.8	N
7	14.21400	38.9	36.8	0.7	39.6	37.5	60.0	50.0	20.4	12.5	N
8	0.15037	57.5	39.0	0.2	57.7	39.2	66.0	56.0	8.3	16.8	L1
9	0.29945	38.2	28.3	0.2	38.4	28.5	60.3	50.3	21.9	21.8	L1
10	0.40085	38.7	31.2	0.2	38.9	31.4	57.8	47.8	18.9	16.4	L1
11	0.51223	37.4	29.3	0.2	37.6	29.5	56.0	46.0	18.4	16.5	L1
12	0.69994	35.8	27.1	0.2	36.0	27.3	56.0	46.0	20.0	18.7	L1
13	7.58800	34.4	29.1	0.5	34.9	29.6	60.0	50.0	25.1	20.4	L1
14	10.65500	34.3	26.9	0.7	35.0	27.6	60.0	50.0	25.0	22.4	L1
15	14.15200	38.8	36.3	0.7	39.5	37.0	60.0	50.0	20.5	13.0	L1

< USB MODE >



Results of Conducted Emission

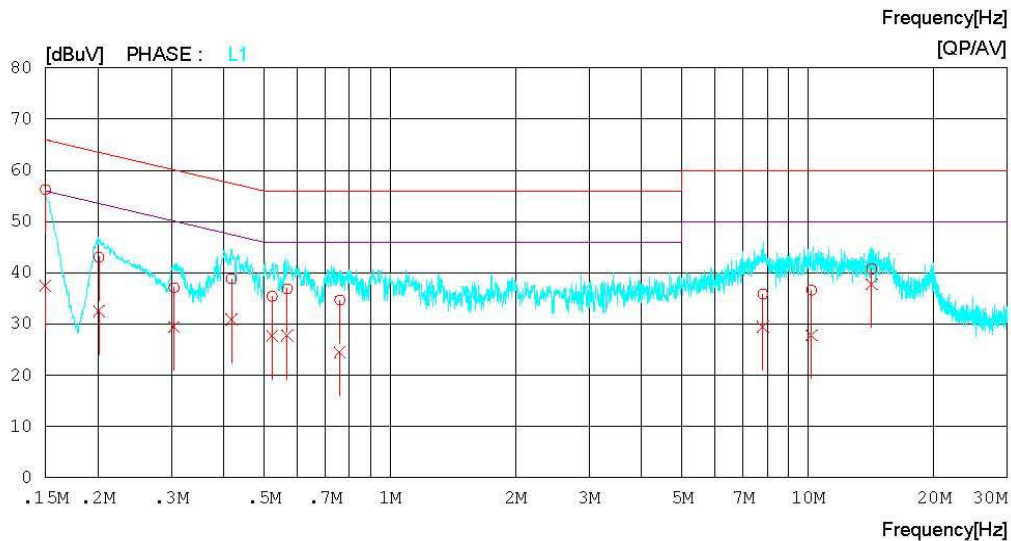
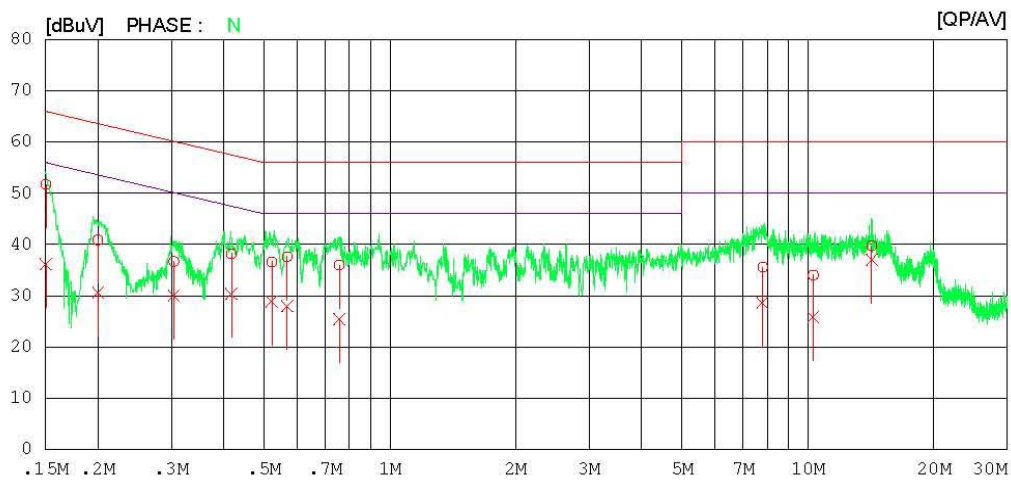
Digital EMC
Date : 2013-02-05

Model No. : 55LA6205-UA
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 21 °C 40 % R.H.
Operator :

Memo :

LIMIT : CISPR22_B QP
CISPR22_B AV



Results of Conducted Emission

Digital EMC
Date : 2013-02-05

Model No. : 55LA6205-UA
Type :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi. : 21 °C 40 % 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	0.15031	51.5	36.0	0.2	51.7	36.2	66.0	56.0	14.3	19.8	N
2	0.20021	40.7	30.4	0.2	40.9	30.6	63.6	53.6	22.7	23.0	N
3	0.30436	36.5	29.8	0.2	36.7	30.0	60.1	50.1	23.4	20.1	N
4	0.41798	38.0	30.2	0.2	38.2	30.4	57.5	47.5	19.3	17.1	N
5	0.52210	36.4	28.7	0.2	36.6	28.9	56.0	46.0	19.4	17.1	N
6	0.56814	37.4	27.8	0.2	37.6	28.0	56.0	46.0	18.4	18.0	N
7	0.75680	35.7	25.2	0.2	35.9	25.4	56.0	46.0	20.1	20.6	N
8	7.79600	35.1	28.1	0.5	35.6	28.6	60.0	50.0	24.4	21.4	N
9	10.29700	33.3	25.1	0.7	34.0	25.8	60.0	50.0	26.0	24.2	N
10	14.21650	39.0	36.3	0.7	39.7	37.0	60.0	50.0	20.3	13.0	N
11	0.15000	56.0	37.3	0.2	56.2	37.5	66.0	56.0	9.8	18.5	L1
12	0.20139	42.9	32.3	0.2	43.1	32.5	63.6	53.6	20.5	21.1	L1
13	0.30460	36.9	29.2	0.2	37.1	29.4	60.1	50.1	23.0	20.7	L1
14	0.41763	38.7	30.7	0.2	38.9	30.9	57.5	47.5	18.6	16.6	L1
15	0.52291	35.2	27.5	0.2	35.4	27.7	56.0	46.0	20.6	18.3	L1
16	0.56814	36.7	27.5	0.2	36.9	27.7	56.0	46.0	19.1	18.3	L1
17	0.75895	34.5	24.3	0.2	34.7	24.5	56.0	46.0	21.3	21.5	L1
18	7.79750	35.4	29.0	0.5	35.9	29.5	60.0	50.0	24.1	20.5	L1
19	10.20550	35.9	27.1	0.7	36.6	27.8	60.0	50.0	23.4	22.2	L1
20	14.21400	40.1	37.1	0.7	40.8	37.8	60.0	50.0	19.2	12.2	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

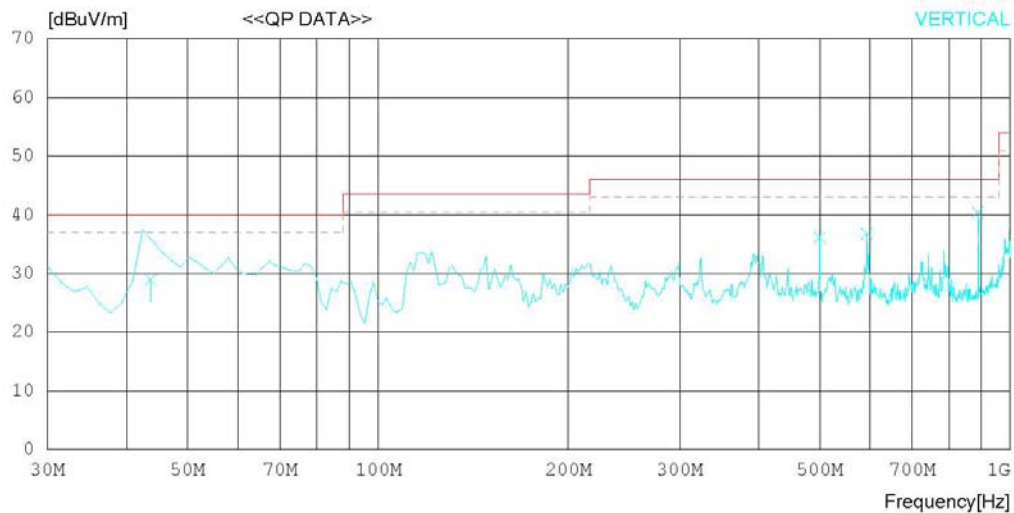
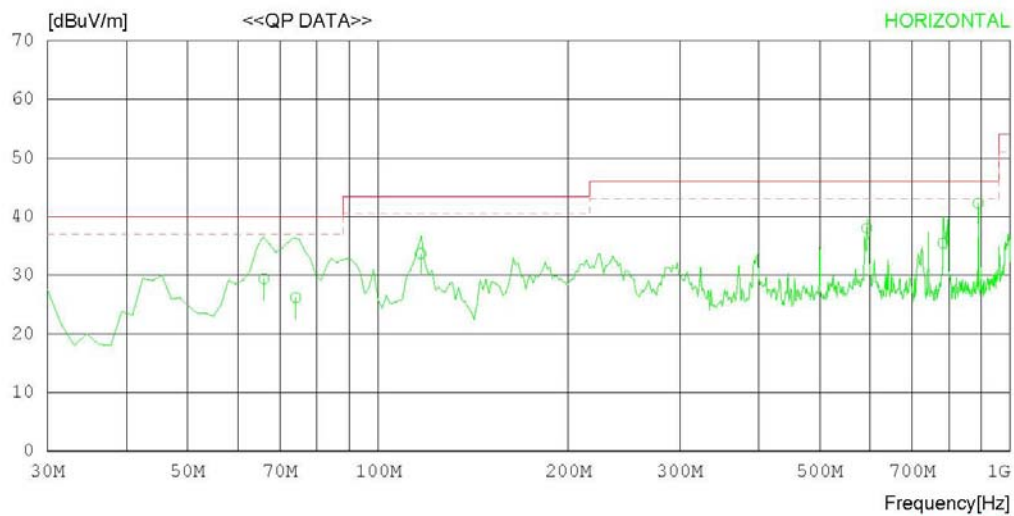
Date : 2013-02-06

Model Name : 55LA6205-UA
Model No. :
Serial No. :
Test Condition : HDMI

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

Memo :

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



RADIATED EMISSION

Date : 2013-02-06

Model Name : 55LA6205-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 38 % 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	65.996	46.2	6.0	1.6	24.4	29.4	40.0	10.6	313	158
2	74.057	42.2	6.7	1.6	24.3	26.2	40.0	13.8	252	353
3	116.776	44.8	11.4	1.6	24.1	33.7	43.5	9.8	206	320
4	593.410	38.7	18.6	4.1	23.4	38.0	46.0	8.0	286	169
5	783.314	34.5	19.7	4.8	23.5	35.5	46.0	10.5	100	226
6	890.119	39.5	20.7	5.2	23.1	42.3	46.0	3.7	186	306
----- Vertical -----										
7	43.667	38.5	13.6	1.1	24.2	29.0	40.0	11.1	100	273
8	500.000	38.0	17.3	3.9	23.0	36.2	46.0	9.8	100	205
9	593.423	37.5	18.6	4.1	23.4	36.8	46.0	9.2	214	171
10	890.119	37.6	20.7	5.2	23.1	40.4	46.0	5.6	100	241

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

RADIATED EMISSION

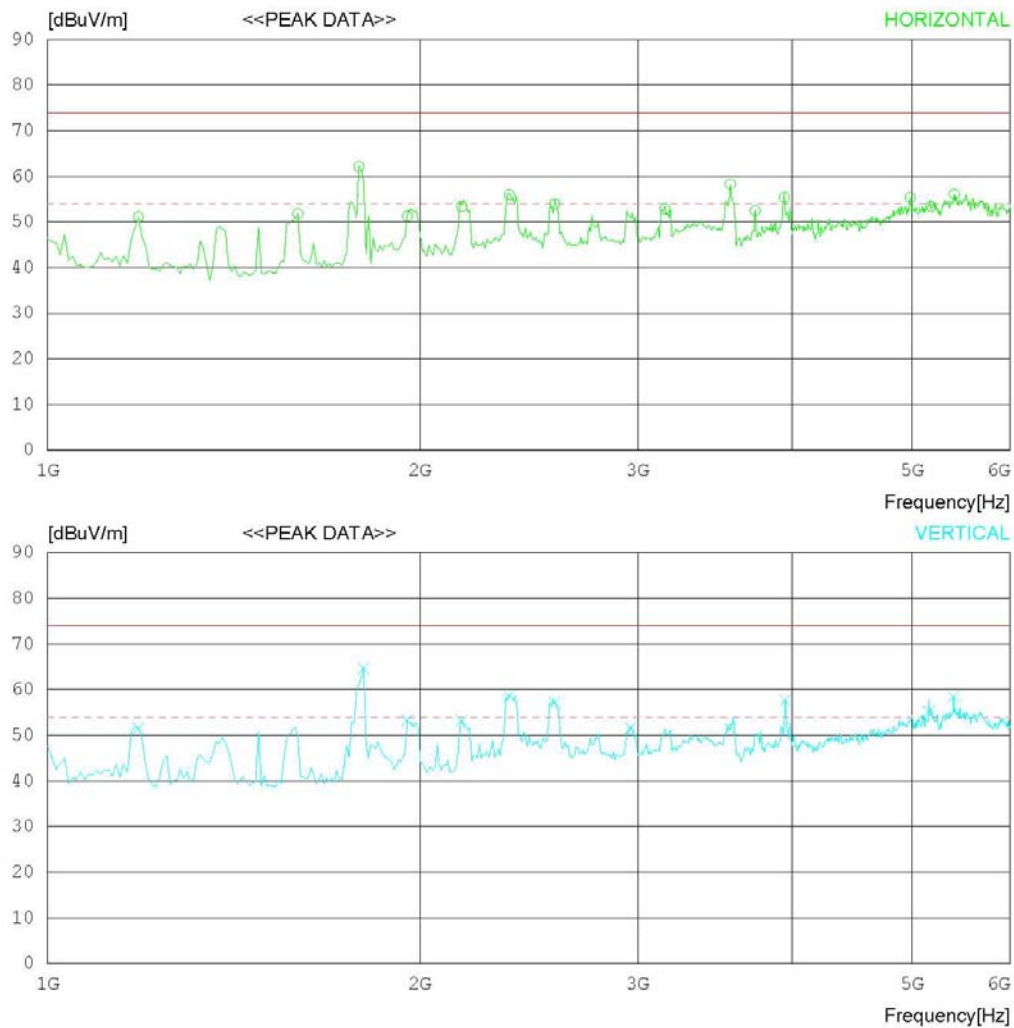
Date : 2013-02-06

Model Name : 55LA6205-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 38 % 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 : 2013-02-06

Model Name : 55LA6205-UA	Reference No. :
Model No. :	Power Supply : 120 V 60 Hz
Serial No. :	Temp/Humi : 20 °C 38 % 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	1184.295	49.0	24.2	6.4	28.5	51.1	74.0	22.9	100	196
2	1592.948	48.0	24.6	7.7	28.5	51.8	74.0	22.2	100	358
3	1785.256	58.1	24.6	8.0	28.5	62.2	74.0	11.8	100	85
4	1953.525	47.1	24.6	8.1	28.5	51.3	74.0	22.7	100	262
5	2161.860	48.0	25.5	8.4	28.5	53.4	74.0	20.6	100	358
6	2362.184	49.0	26.7	8.8	28.5	56.0	74.0	18	100	358
7	2570.520	45.6	27.7	9.2	28.5	54.0	74.0	20	100	358
8	3155.465	42.0	28.9	10.4	28.4	52.9	74.0	21.1	100	358
9	3564.125	45.7	29.0	11.9	28.3	58.3	74.0	15.7	100	233
10	3732.396	39.0	29.5	12.3	28.3	52.5	74.0	21.5	100	226
11	3940.733	41.8	30.0	11.9	28.3	55.4	74.0	18.6	100	163
12	4982.388	35.7	32.4	15.4	28.1	55.4	74.0	18.6	100	358
13	5174.693	32.9	33.4	15.2	28.1	53.4	74.0	20.6	100	358
14	5407.061	34.6	34.6	15.0	28.1	56.1	74.0	17.9	100	194
----- Vertical -----										
15	1184.295	49.5	24.2	6.4	28.5	51.6	74.0	22.4	100	1
16	1801.282	60.5	24.6	8.1	28.5	64.7	74.0	9.3	100	158
17	1953.525	48.7	24.6	8.4	28.5	53.2	74.0	20.8	100	1
18	2161.860	47.4	25.5	8.8	28.5	53.2	74.0	20.8	100	204
19	2362.184	51.3	26.7	9.2	28.5	58.7	74.0	15.3	100	180
20	2570.520	48.2	27.7	9.7	28.4	57.2	74.0	16.8	100	227
21	2963.154	41.4	28.9	9.7	28.4	51.6	74.0	22.4	100	195
22	3564.125	39.9	29.0	10.9	28.4	51.4	74.0	22.6	100	1
23	3948.746	43.2	30.0	12.8	28.3	57.7	74.0	16.3	100	1
24	5158.667	37.4	33.3	12.8	28.3	55.2	74.0	18.8	100	223
25	5399.048	36.9	34.6	15.2	28.1	58.6	74.0	15.4	100	359

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

RADIATED EMISSION

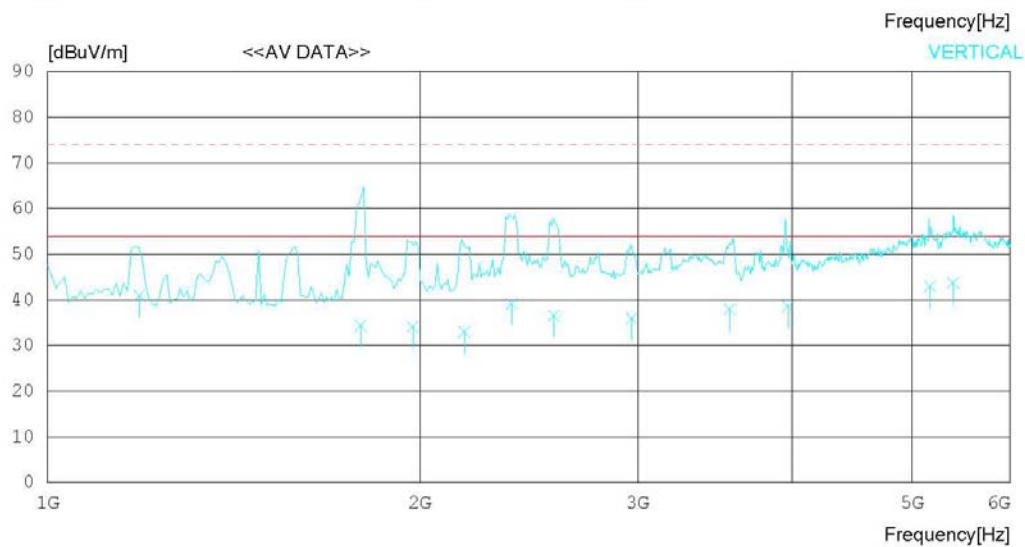
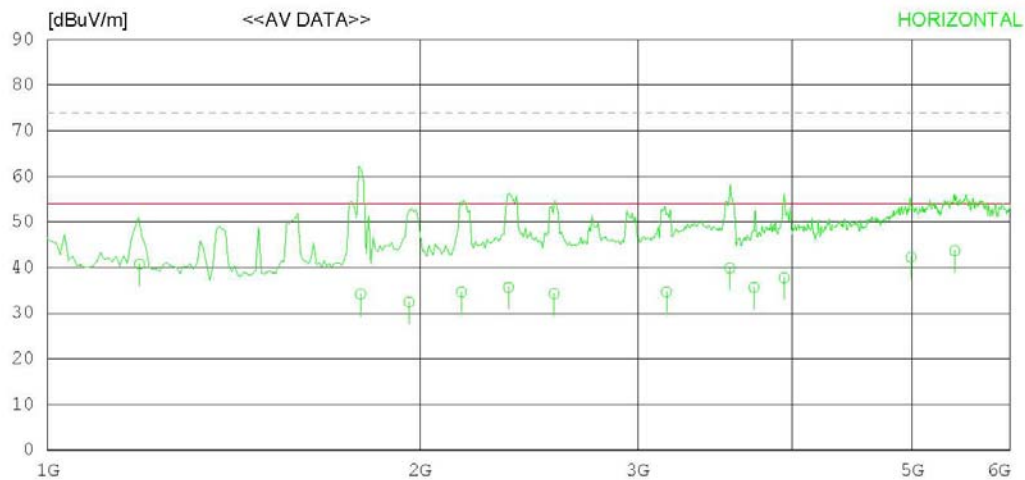
Date : 2013-02-06

Model Name : 55LA6205-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 38 % 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 : 2013-02-06

Model Name : 55LA6205-UA
Model No. :
Serial No. :
Test Condition : HDMI

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 38 % 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	1186.837	38.7	24.2	6.4	28.5	40.8	54.0	13.2	100	196
2	1790.577	30.0	24.6	8.1	28.5	34.2	54.0	19.8	116	85
3	1959.410	28.0	24.6	8.4	28.5	32.5	54.0	21.5	100	262
4	2159.974	28.9	25.5	8.8	28.5	34.7	54.0	19.3	100	358
5	2359.179	28.4	26.6	9.2	28.5	35.7	54.0	18.3	100	316
6	2567.532	25.3	27.7	9.7	28.4	34.3	54.0	19.7	100	206
7	3163.910	23.3	28.9	10.9	28.4	34.7	54.0	19.3	146	118
8	3560.475	27.4	29.0	11.8	28.3	39.9	54.0	14.1	100	233
9	3723.250	22.3	29.4	12.3	28.3	35.7	54.0	18.3	100	226
10	3938.846	23.3	30.0	12.8	28.3	37.8	54.0	16.2	100	163
11	4989.179	22.6	32.4	15.4	28.1	42.3	54.0	11.7	100	21
12	5410.247	22.2	34.6	15.0	28.1	43.7	54.0	10.3	100	194
----- Vertical -----										
13	1186.821	38.9	24.2	6.4	28.5	41.0	54.0	13.0	100	151
14	1791.295	30.2	24.6	8.1	28.5	34.4	54.0	19.6	100	158
15	1973.352	29.6	24.6	8.4	28.5	34.1	54.0	19.9	100	186
16	2172.699	27.1	25.6	8.8	28.5	33.0	54.0	21.0	100	204
17	2371.776	31.7	26.7	9.3	28.5	39.2	54.0	14.8	100	180
18	2566.474	27.6	27.7	9.7	28.4	36.6	54.0	17.4	100	227
19	2967.087	25.0	28.9	10.4	28.4	35.9	54.0	18.1	100	195
20	3560.474	25.5	29.0	11.8	28.3	38.0	54.0	16.0	100	72
21	3967.952	23.9	30.1	12.9	28.3	38.6	54.0	15.4	128	11
22	5168.016	22.6	33.3	15.2	28.1	43.0	54.0	11.0	115	223
23	5392.669	22.4	34.5	15.0	28.1	43.8	54.0	10.2	100	350

< USB MODE_30 MHz ~ 1 GHz >

RADIATED EMISSION

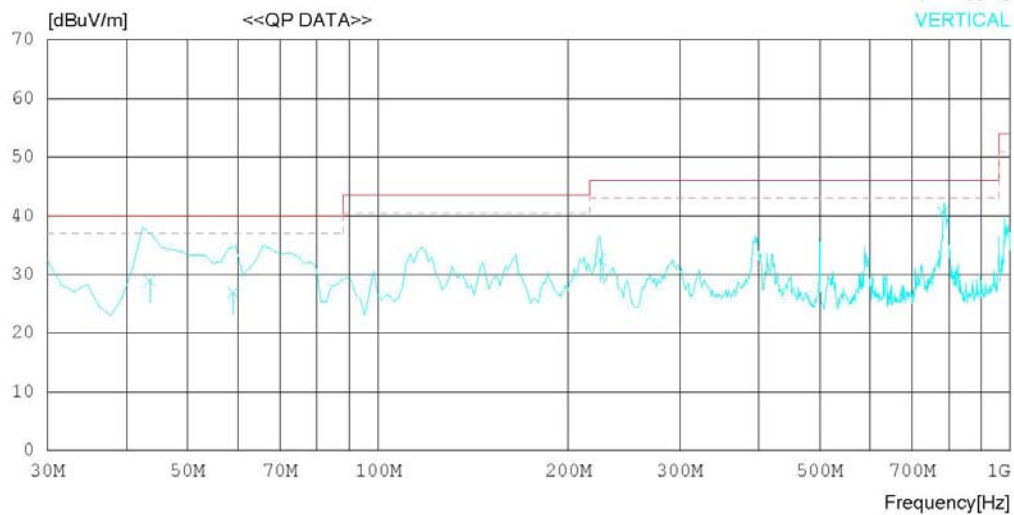
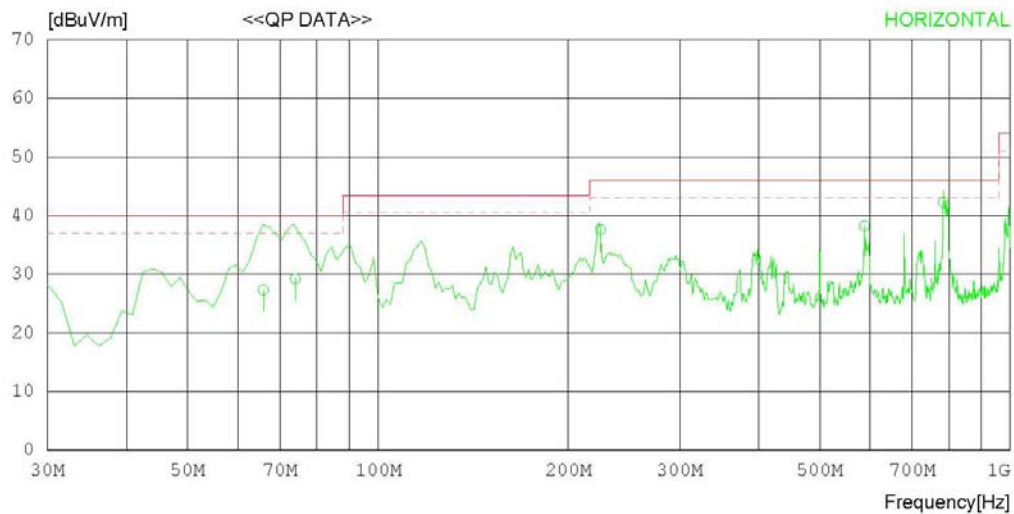
Date : 2013-02-06

Model Name : 55LA6205-UA
Model No. :
Serial No. :
Test Condition : USB

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

Memo :

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



RADIATED EMISSION

Date : 2013-02-06

Model Name : 55LA6205-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 38 % 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	65.864	44.2	5.9	1.6	24.4	27.3	40.0	12.7	323	72
2	73.955	45.2	6.7	1.6	24.3	29.2	40.0	10.8	218	352
3	224.800	47.9	11.2	2.4	23.9	37.6	46.0	8.4	100	76
4	588.032	39.0	18.5	4.1	23.4	38.2	46.0	7.8	100	1
5	783.182	41.3	19.7	4.8	23.5	42.3	46.0	3.7	244	209
----- Vertical -----										
6	43.521	38.4	13.6	1.1	24.2	28.9	40.0	11.1	100	246
7	58.964	44.2	5.7	1.4	24.4	26.9	40.0	13.1	100	227
8	224.801	42.8	11.2	2.4	23.9	32.5	46.0	13.5	208	153
9	783.250	39.7	19.7	4.8	23.5	40.7	46.0	5.3	100	191

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

RADIATED EMISSION

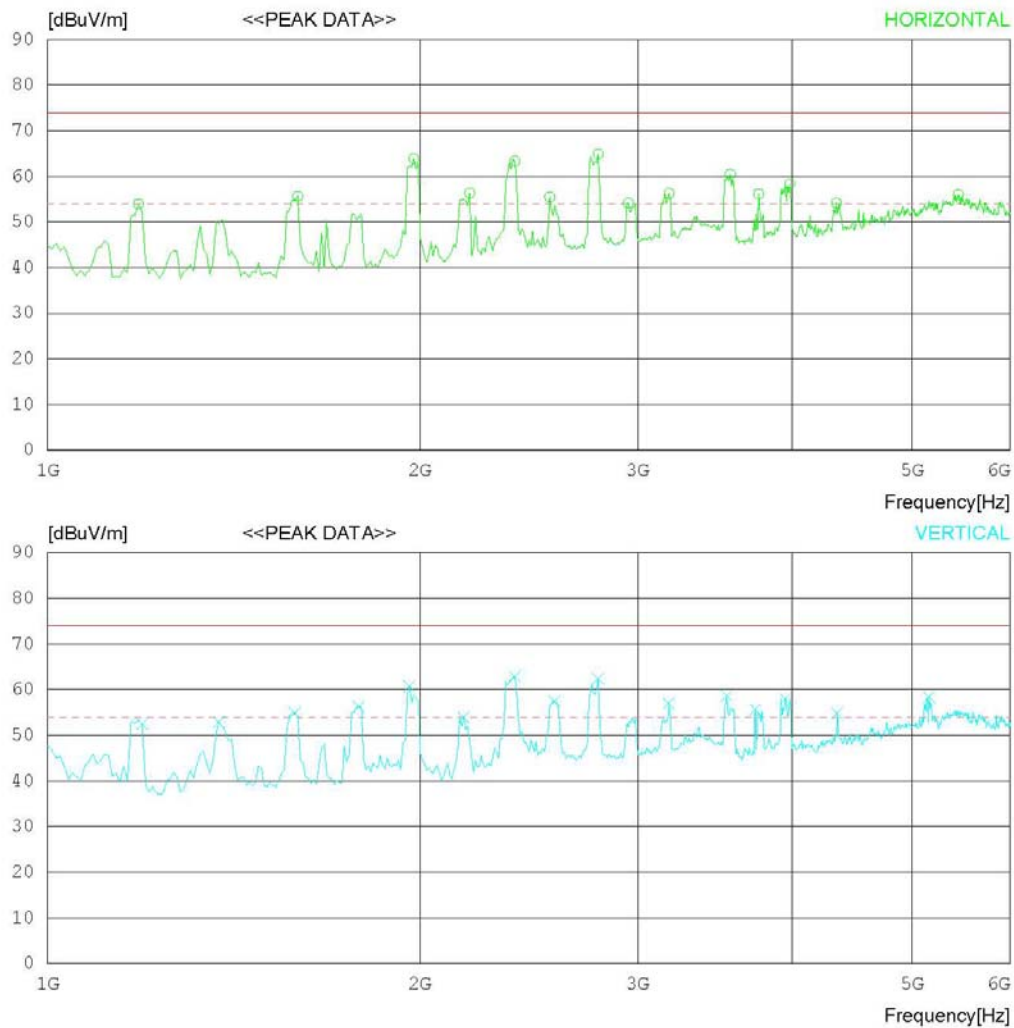
Date : 2013-02-06

Model Name : 55LA6205-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 38 % 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 : 2013-02-06

Model Name : 55LA6205-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 38 % 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	1184.295	51.9	24.2	6.4	28.5	54.0	74.0	20	100	358
2	1592.948	51.9	24.6	7.7	28.5	55.7	74.0	18.3	100	358
3	1977.564	59.4	24.6	8.4	28.5	63.9	74.0	10.1	100	358
4	2193.912	50.3	25.7	8.9	28.5	56.4	74.0	17.6	100	174
5	2386.223	55.8	26.8	9.3	28.5	63.4	74.0	10.6	100	358
6	2546.481	46.7	27.6	9.6	28.4	55.5	74.0	18.5	100	358
7	2786.870	54.9	28.3	10.1	28.4	64.9	74.0	9.1	100	199
8	2947.128	43.4	28.8	10.4	28.4	54.2	74.0	19.8	100	183
9	3179.504	44.9	28.9	10.9	28.4	56.3	74.0	17.7	100	199
10	3564.125	47.9	29.0	11.9	28.3	60.5	74.0	13.5	100	192
11	3756.435	42.7	29.5	12.3	28.3	56.2	74.0	17.8	100	358
12	3980.798	43.7	30.1	12.9	28.3	58.4	74.0	15.6	100	194
13	4341.373	38.4	30.7	13.3	28.2	54.2	74.0	19.8	100	201
14	5447.125	34.4	34.8	14.9	28.1	56.0	74.0	18	100	178
----- Vertical -----										
15	1192.308	50.4	24.2	6.4	28.5	52.5	74.0	21.5	100	1
16	1376.602	49.8	24.5	7.1	28.5	52.9	74.0	21.1	100	212
17	1584.936	51.1	24.6	7.7	28.5	54.9	74.0	19.1	100	1
18	1785.256	52.2	24.6	8.0	28.5	56.3	74.0	17.7	100	1
19	1961.538	56.3	24.6	8.4	28.5	60.8	74.0	13.2	100	170
20	2169.873	48.2	25.5	8.8	28.5	54.0	74.0	20	100	195
21	2386.223	55.3	26.8	9.3	28.5	62.9	74.0	11.1	100	1
22	2570.520	48.5	27.7	9.7	28.4	57.5	74.0	16.5	100	1
23	2786.870	52.4	28.3	10.1	28.4	62.4	74.0	11.6	100	1
24	3179.504	45.6	28.9	10.9	28.4	57.0	74.0	17	100	1
25	3540.086	46.2	29.0	11.8	28.3	58.7	74.0	15.3	100	231
26	3732.396	42.2	29.5	12.3	28.3	55.7	74.0	18.3	100	1
27	3948.746	43.5	30.0	12.8	28.3	58.0	74.0	16	100	231
28	4349.385	39.1	30.7	13.3	28.2	54.9	74.0	19.1	100	1
29	5158.667	38.0	33.3	15.2	28.1	58.4	74.0	15.6	100	222

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

RADIATED EMISSION

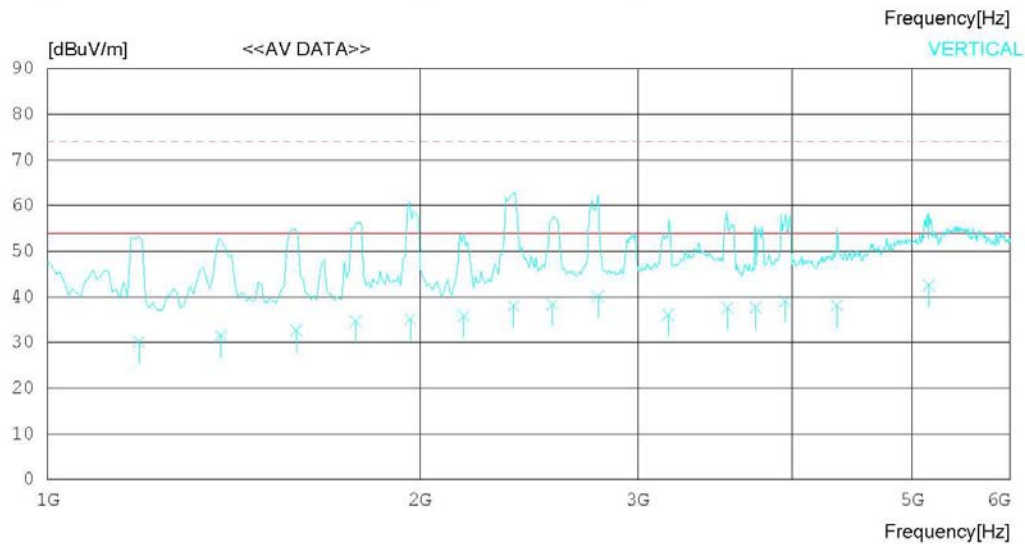
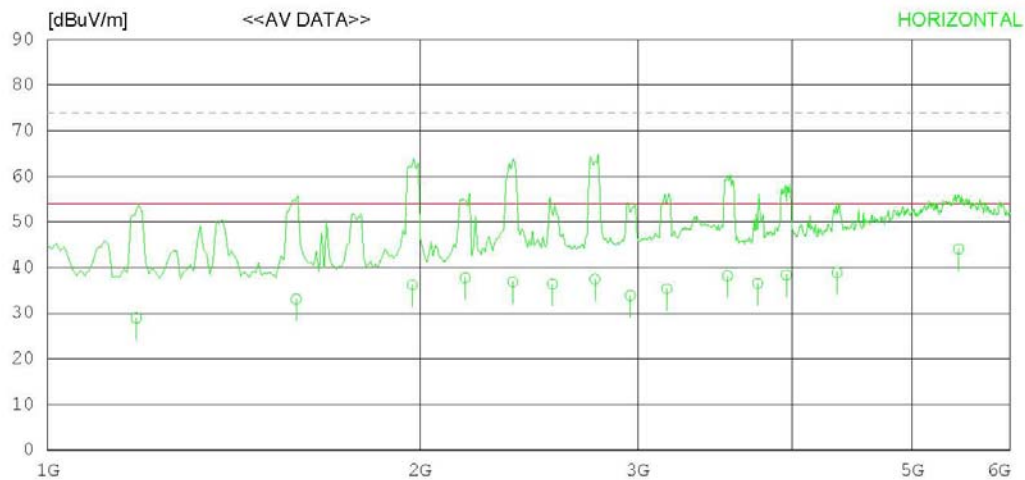
Date : 2013-02-06

Model Name : 55LA6205-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 38 % 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 : 2013-02-06

Model Name : 55LA6205-UA
Model No. :
Serial No. :
Test Condition : USB

Reference No. :
Power Supply : 120 V 60 Hz
Temp/Humi : 20 °C 38 % 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	1179.673	26.9	24.2	6.4	28.5	29.0	54.0	25.0	100	200
2	1588.314	29.3	24.6	7.7	28.5	33.1	54.0	20.9	100	358
3	1972.035	31.7	24.6	8.4	28.5	36.2	54.0	17.8	100	264
4	2175.933	31.9	25.6	8.8	28.5	37.8	54.0	16.2	100	355
5	2376.705	29.4	26.7	9.3	28.5	36.9	54.0	17.1	100	310
6	2560.503	27.5	27.6	9.7	28.4	36.4	54.0	17.6	100	200
7	2769.972	27.5	28.3	10.1	28.4	37.5	54.0	16.5	100	199
8	2959.660	23.0	28.9	10.4	28.4	33.9	54.0	20.1	100	183
9	3165.779	24.0	28.9	10.9	28.4	35.4	54.0	18.6	150	125
10	3543.968	25.7	29.0	11.8	28.3	38.2	54.0	15.8	100	232
11	3750.631	23.1	29.5	12.3	28.3	36.6	54.0	17.4	100	221
12	3955.160	23.9	30.0	12.8	28.3	38.4	54.0	15.6	100	168
13	4347.250	23.1	30.7	13.3	28.2	38.9	54.0	15.1	100	201
14	5451.547	22.5	34.8	14.9	28.1	44.1	54.0	9.9	100	178
----- Vertical -----										
15	1185.519	28.1	24.2	6.4	28.5	30.2	54.0	23.8	100	148
16	1380.647	28.5	24.5	7.1	28.5	31.6	54.0	22.4	100	212
17	1588.087	28.9	24.6	7.7	28.5	32.7	54.0	21.3	100	21
18	1774.984	30.6	24.6	8.0	28.5	34.7	54.0	19.3	100	180
19	1964.686	30.7	24.6	8.4	28.5	35.2	54.0	18.8	100	170
20	2170.683	30.1	25.5	8.8	28.5	35.9	54.0	18.1	100	195
21	2381.994	30.5	26.8	9.3	28.5	38.1	54.0	15.9	100	187
22	2560.304	29.5	27.6	9.7	28.4	38.4	54.0	15.6	100	220
23	2785.744	30.1	28.3	10.1	28.4	40.1	54.0	13.9	100	3
24	3175.827	24.7	28.9	10.9	28.4	36.1	54.0	17.9	100	48
25	3543.494	25.1	29.0	11.8	28.3	37.6	54.0	16.4	100	81
26	3735.365	24.2	29.5	12.3	28.3	37.7	54.0	16.3	100	166
27	3947.038	24.6	30.0	12.8	28.3	39.1	54.0	14.9	100	23
28	4346.359	22.3	30.7	13.3	28.2	38.1	54.0	15.9	100	74
29	5160.565	22.2	33.3	15.2	28.1	42.6	54.0	11.4	100	222

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
☒ 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
☒ 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
☐ 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