

Application for FCC Certificate
On Behalf of
LG Electronics U.S.A., Inc.

LCD Monitor

Model No.: LS1920wG

Brand Name: Lenovo

FCC ID : BEJLS1920WG

Prepared For : LG Electronics U.S.A., Inc.
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NJ 07632, United States

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Report No. : ACI-F13042
Date of Test : Mar 15 – 18, 2013
Date of Report : Mar 25, 2013

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TEST REPORT FOR FCC CERTIFICATE

Applicant : LG Electronics U.S.A., Inc.
Manufacturer : LG Electronics Nanjing Display Co., Ltd.
EUT Description : LCD Monitor
(A) Model No. : LS1920wG
(B) Brand : Lenovo
(C) Power Supply : 120V/60Hz

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B OCTOBER 2012
AND ANSI C63.4-2003*

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B (Class B) and ICES-003, Issue 4 February 2004 (CISPR 22:2002) limits both radiated and conducted emissions.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report shows that the EUT (M/N: LS1920wG) which was tested in 3m anechoic chamber Mar 15 – 18, 2013 is technically compliance with the FCC official limits also.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

This report contains data that are not covered by the NVLAP accreditation.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Mar 15 – 18, 2013 Date of Report : Mar 25, 2013

Producer : Yenny Yu.
YENNY YU / Assistant

Review : Wency Yang
WENCY YANG / Supervisor

 For and on behalf of
Audix Technology (Shanghai) Co., Ltd.

Signatory : Sammy Chen
Authorized Signature EMC SAMMY CHEN / Deputy Manager

1 SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Description of Test Item	Standard	Limits	Results
EMISSION			
Conducted Disturbance at the Mains Terminal	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2012 AND ANSI C63.4-2003	15.107(a) Class B	Pass
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2012 AND ANSI C63.4-2003	15.109(a) Class B	Pass

2 GENERAL INFORMATION

2.1 Description of Equipment Under Test

Description	: LCD Monitor
Model No.	: LS1920wG
Brand	: Lenovo
Real Power	: 9.90W
Applicant	: LG Electronics U.S.A., Inc. No.346, YaoXin Road Economic&Technical Development Zone, Nanjing, China
Manufacturer	: LG Electronics Nanjing Display Co., Ltd. No.346, YaoXin Road Economic&Technical Development Zone, Nanjing, China
Max Resolution	: 1366*768@60Hz
D-Sub Cable #1	: Shielded, Detachable, 1.80m, with two cores
D-Sub Cable #2	: Shielded, Detachable, 1.50m
Power Cord #1	: Unshielded, Detachable, 1.80m
Power Cord #2	: Unshielded, Detachable, 1.50m
Note	: The D-Sub cable #2 and Power Cord #2 were selected to be used in the test.

Remark:

The EUT is a LCD Monitor which input/output ports as follows:

- | | |
|--------------------|------------------------|
| (1) One D-Sub Port | : Connected with PC |
| (2) One AC In Port | : Connected with Power |

2.2 Peripherals

2.2.1 PC

Manufacturer : HP
Model Number : dx7200MT
Serial Number : CNG622017W
Power Cord : Unshielded, Detachable, 1.8m
Certificate : FCC DoC; CE/EMC; VCCI; C-Tick; UL
BSMI (R33001) 3C (A000111)
MIC (E-A011-04-2659(B))

2.2.2 Graphics Card (Used in PC)

Manufacturer : Asus
Model Number : EAH6670
Output port : DVI, D-Sub, HDMI

2.2.3 Printer

Manufacturer : HP
Model Number : C3990A
Serial Number : JPZX020487
Data Cable : Shielded, Detachable, 1.5m
Certificate : GS, CE/EMC, C-Tick, FCC DoC

2.2.4 Keyboard

Manufacturer : Microsoft
Model Number : RT2300
Serial Number : 7668200662248
Data Cable : Shielded, Undetachable, 1.8m
Certificate : CE/EMC, FCC DoC, VCCI, MIC,
C-Tick, BSMI

2.2.5 Mouse

Manufacturer : Microsoft
Model Number : RT2300
Serial Number : 6965712071551
Data Cable : Shielded, Undetachable, 1.8m.
Certificate : CE/EMC, FCC DoC, VCCI, MIC,
C-Tick, BSMI

2.2.6 Modem

Manufacturer : TP-LINK
Model Number : TM-EC5658V
Serial Number : 07123301053
Data Cable : Shielded, Detachable, 1.8m
Certificate : FCC DoC, CE/EMC, CCC

2.3 Description of Test Facility

Site Description (Semi-Anechoic Chamber) : Sept. 17, 1998 file on
Mar 16, 2012 Renewed
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046, USA

Name of Firm : Audix Technology (Shanghai) Co., Ltd.

Site Location : 3F 34Bldg 680 Guiping Rd,
Caohejing Hi-Tech Park,
Shanghai 200233, China

NVLAP Lab Code : 200371-0

2.4 Measurement Uncertainty

Conducted Emission Expanded Uncertainty: U = 3.42 dB

Radiated Emission Expanded Uncertainty (30-200MHz):
U = 4.14 dB (Horizontal)
U = 4.28 dB (Vertical)

Radiated Emission Expanded Uncertainty (200M-1GHz):
U = 4.18 dB (Horizontal)
U = 4.26 dB (Vertical)

3 CONDUCTED EMISSION TEST

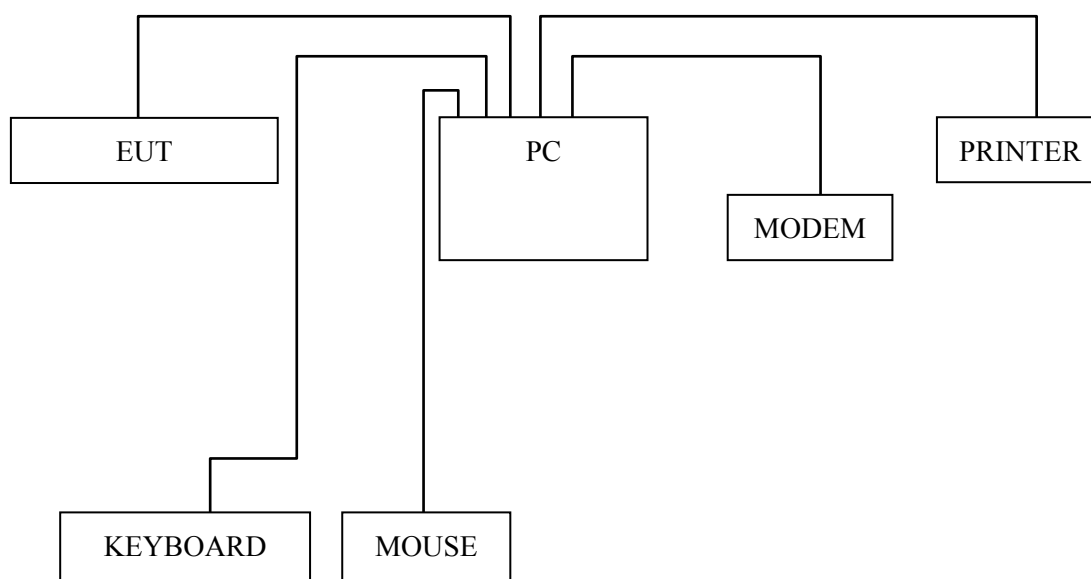
3.1 Test Equipment

The following test equipments are used during the conducted emission test in a shielded room:

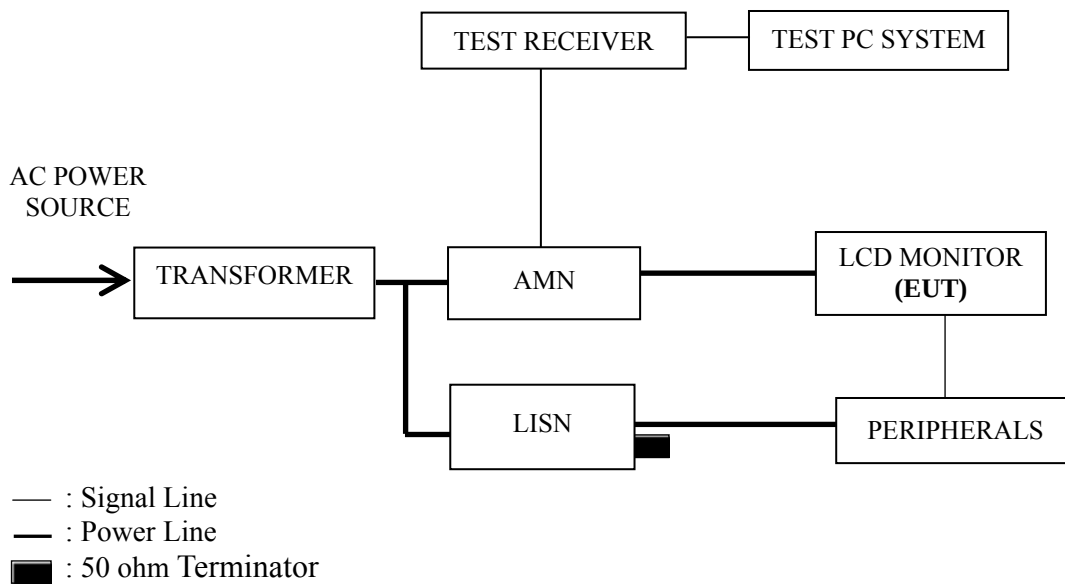
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCI	100841	Mar 22, 2012	Mar 22, 2013
2.	Artificial Mains Network (AMN)	R&S	ESH2-Z5	843890/011	Feb 25, 2013	Feb 25, 2014
3.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-4	Mar 22, 2012	Mar 22, 2013
4.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426389	Sep 18, 2012	Mar 18, 2013
5.	50 Ω Terminator	Anritsu	BNC	001	Mar 22, 2012	Mar 22, 2013
6.	Software	Audix	E3	SET00200 9804M592	--	--

3.2 Block Diagram of Test Setup

3.2.1 EUT & Peripherals



3.2.2 Conducted Disturbance Test Setup



3.3 Conducted Emission Limit [FCC Part 15 Subpart B 15.107(a)]

Frequency Range (MHz)	Limits dB (μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66~56	56~46
0.5 ~ 5	56	46
5 ~ 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~0.50 MHz		

3.4 Test Configuration

The EUT (listed in Sec.2.1) and the peripherals (listed in Sec 2.2) were installed as shown on Sec.3.2 to meet FCC requirement and operating in a manner that tends to maximize its emission level in a normal application.

3.5 Operating Condition of EUT

3.5.1 Setup the EUT and peripherals as shown in Sec. 3.2.

3.5.2 Turn on the power of all equipments and the EUT.

3.5.3 Set the contrast & brightness of EUT to maximum.

3.5.4 PC system ran the self-test program "EMC Test" by windows XP and sent "H" characters to EUT through graphic card (we use white letters on a black background to represent all colors), the EUT's screen displayed and filled with "H" pattern by its resolution (Via D-Sub Input).

3.5.5 Repeat above procedure from 3.5.3 to 3.5.4 for difference test mode.

3.5.6 The other peripherals devices were driven and operated during the test.

3.5.7 The test modes are as follows:

Test Mode
D-Sub 1366*768@60Hz
D-Sub 1024*768@75Hz
D-Sub 640*480@60Hz

3.6 Test Procedures

The EUT and peripherals were connected to the power mains through an Artificial Mains Network (AMN). This provided a 50 ohm coupling impedance for the measuring equipment.

Both sides of AC line (Line & Neutral) were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed or manipulated according to ANSI C63.4:2003 during conducted emission test.

The bandwidth of R&S Test Receiver ESCI was set at 9 kHz.

The frequency range from 150 kHz to 30 MHz was checked.

The test modes were done on conducted disturbance test and all the test results are listed in Sec. 3.7.

3.7 Test Results

< PASS >

The frequency and amplitude of the highest conducted emission relative to the limit is reported. All emissions not reported below are too low against the prescribed limits.

Test Mode	Data Page
D-Sub 1366*768@60Hz	P13
D-Sub 1024*768@75Hz	P14
D-Sub 640*480@60Hz	P15

NOTE 1 – The **bold test mode** listed above means the worst test mode.

NOTE 2 – Factor = Cable Loss + AMN Factor.

NOTE 3 – Emission Level = Meter Reading + Factor.

NOTE 4 – “QP” means “Quasi-Peak” values, “AV” means “Average” values.

NOTE 5 – The worst case is for D-Sub 1366*768@60Hz test mode. The worst emission is detected at 17.383 MHz (Quasi-Peak Value) with corrected signal level of 43.60 dB (μV) (limit is 60.00 dB (μV)), when the Neutral of the EUT is connected to AMN.

EUT : LCD Monitor Temperature : 22

Model No. : LS1920wG Humidity : 48%RH

Serial No. : N/A Date of Test : Mar 15, 2013

Test Mode : D-Sub 1366*768@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.183	40.22	0.25	40.47	64.33	23.86	QP
	0.249	33.14	0.25	33.39	61.78	28.39	
	0.567	27.79	0.31	28.10	56.00	27.90	
	3.173	28.97	0.42	29.39	56.00	26.61	
	6.121	34.20	0.59	34.79	60.00	25.21	
	17.568	41.14	0.89	42.03	60.00	17.97	
	0.183	29.56	0.25	29.81	54.33	24.52	AV
	0.249	23.50	0.25	23.75	51.78	28.03	
	0.567	16.20	0.31	16.51	46.00	29.49	
	3.173	17.51	0.42	17.93	46.00	28.07	
	6.121	24.29	0.59	24.88	50.00	25.12	
	17.568	30.25	0.89	31.14	50.00	18.86	
Neutral	0.182	40.41	0.12	40.53	64.42	23.89	QP
	0.242	33.37	0.11	33.48	62.04	28.56	
	0.546	26.23	0.17	26.40	56.00	29.60	
	3.509	26.30	0.34	26.64	56.00	29.36	
	7.100	35.68	0.59	36.27	60.00	23.73	
	17.383	42.81	0.79	43.60	60.00	16.40	
	0.182	30.25	0.12	30.37	54.42	24.05	AV
	0.242	22.52	0.11	22.63	52.04	29.41	
	0.546	16.00	0.17	16.17	46.00	29.83	
	3.509	16.55	0.34	16.89	46.00	29.11	
	7.100	25.60	0.59	26.19	50.00	23.81	
	17.383	31.54	0.79	32.33	50.00	17.67	

TEST ENGINEER: JOE YE

EUT : LCD Monitor Temperature : 22

Model No. : LS1920wG Humidity : 48%RH

Serial No. : N/A Date of Test : Mar 15, 2013

Test Mode : D-Sub 1024*768@75Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.184	39.84	0.25	40.09	64.28	24.19	QP
	0.242	33.19	0.25	33.44	62.04	28.60	
	0.585	28.16	0.28	28.44	56.00	27.56	
	3.041	28.71	0.42	29.13	56.00	26.87	
	6.121	32.16	0.59	32.75	60.00	27.25	
	17.383	41.92	0.89	42.81	60.00	17.19	
	0.184	28.51	0.25	28.76	54.28	25.52	AV
	0.242	23.22	0.25	23.47	52.04	28.57	
	0.585	17.56	0.28	17.84	46.00	28.16	
	3.041	17.55	0.42	17.97	46.00	28.03	
	6.121	22.25	0.59	22.84	50.00	27.16	
	17.383	30.23	0.89	31.12	50.00	18.88	
Neutral	0.182	40.45	0.12	40.57	64.42	23.85	QP
	0.247	32.73	0.11	32.84	61.86	29.02	
	0.521	26.38	0.17	26.55	56.00	29.45	
	3.328	27.30	0.32	27.62	56.00	28.38	
	7.175	33.41	0.59	34.00	60.00	26.00	
	17.383	42.25	0.79	43.04	60.00	16.96	
	0.182	30.25	0.12	30.37	54.42	24.05	AV
	0.247	22.23	0.11	22.34	51.86	29.52	
	0.521	16.30	0.17	16.47	46.00	29.53	
	3.328	17.22	0.32	17.54	46.00	28.46	
	7.175	22.25	0.59	22.84	50.00	27.16	
	17.383	32.51	0.79	33.30	50.00	16.70	

TEST ENGINEER: JOE YE

EUT : LCD Monitor Temperature : 22

Model No. : LS1920wG Humidity : 48%RH

Serial No. : N/A Date of Test : Mar 15, 2013

Test Mode : D-Sub 640*480@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)	Remark
Line	0.182	40.21	0.25	40.46	64.42	23.96	QP
	0.247	32.86	0.25	33.11	61.86	28.75	
	0.567	28.11	0.31	28.42	56.00	27.58	
	3.074	29.20	0.42	29.62	56.00	26.38	
	7.175	33.65	0.66	34.31	60.00	25.69	
	17.199	41.71	0.87	42.58	60.00	17.42	
	0.182	29.56	0.25	29.81	54.42	24.61	AV
	0.247	21.40	0.25	21.65	51.86	30.21	
	0.567	17.50	0.31	17.81	46.00	28.19	
	3.074	18.56	0.42	18.98	46.00	27.02	
	7.175	22.29	0.66	22.95	50.00	27.05	
	17.199	30.86	0.87	31.73	50.00	18.27	
Neutral	0.183	40.38	0.12	40.50	64.33	23.83	QP
	0.244	32.71	0.11	32.82	61.95	29.13	
	0.546	26.12	0.17	26.29	56.00	29.71	
	3.207	27.33	0.29	27.62	56.00	28.38	
	7.175	33.57	0.59	34.16	60.00	25.84	
	17.755	41.79	0.79	42.58	60.00	17.42	
	0.183	32.12	0.12	32.24	54.33	22.09	AV
	0.244	22.40	0.11	22.51	51.95	29.44	
	0.546	16.80	0.17	16.97	46.00	29.03	
	3.207	17.60	0.29	17.89	46.00	28.11	
	7.175	23.52	0.59	24.11	50.00	25.89	
	17.755	30.25	0.79	31.04	50.00	18.96	

TEST ENGINEER: JOE YE

4 RADIATED EMISSION TEST

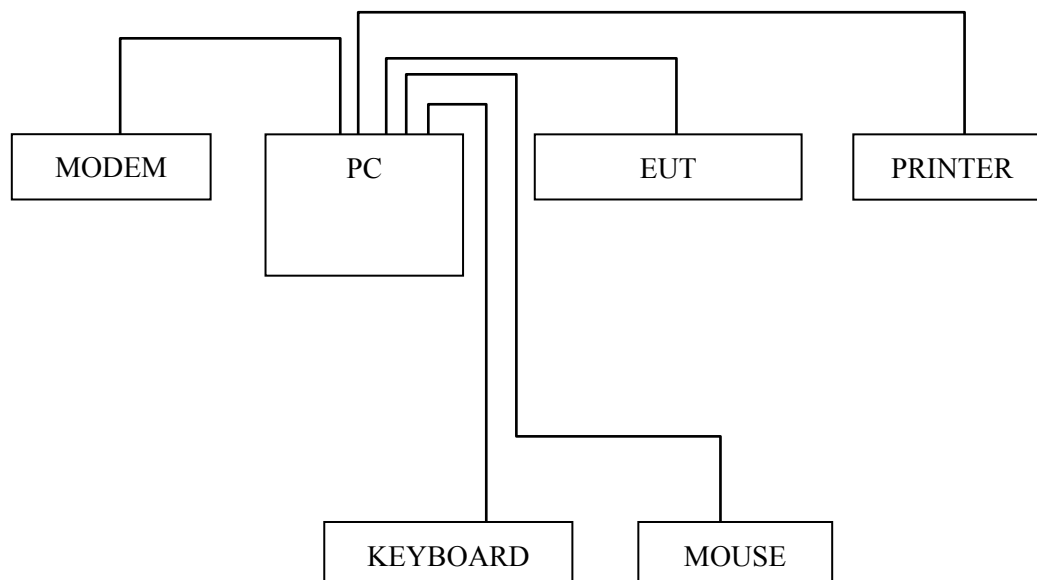
4.1 Test Equipment

The following test equipments are used during the radiated emission test in a semi-anechoic chamber:

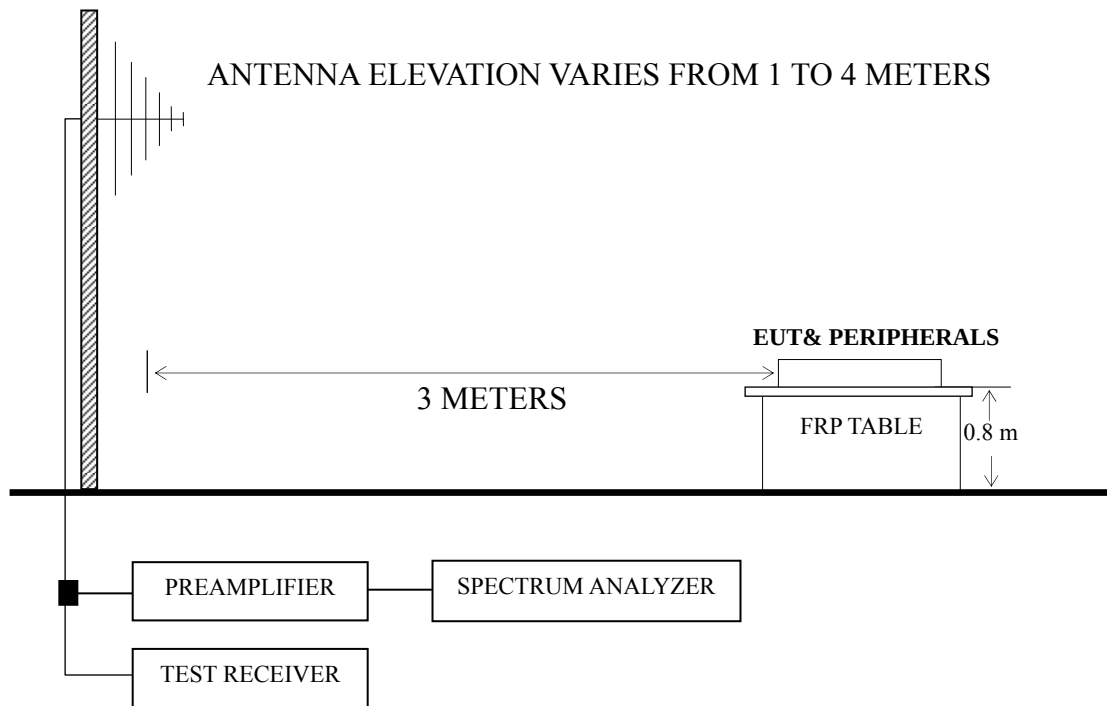
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCI	101302	Sep 11, 2012	Sep 11, 2013
2.	Preamplifier	Agilent	8447D	2944A10548	Mar 18, 2013	Sep 18, 2013
3.	Bi-log Antenna	TESEQ	CBL6112D	23193	May 03, 2012	May 03, 2013
4.	Spectrum	Agilent	E7405A	MY45106600	Dec 17, 2012	Dec 17, 2013
5.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426390	Mar 18, 2013	Sep 18, 2013
6.	Software	Audix	E3	SET00200 9912M295-2	--	--

4.2 Block Diagram of Test Setup

4.2.1 EUT and Peripherals



4.2.2 Radiated emission test setup



■ : 50 ohm Coaxial Switch

4.3 Radiated Emission Limit [FCC Part 15 Subpart B 15.109(a)]

Frequency (MHz)	Distance (m)	Field strength limits	
		($\mu\text{V/m}$)	dB ($\mu\text{V/m}$)
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0

NOTE 1 - Emission Level dB ($\mu\text{V/m}$) = 20 log Emission Level ($\mu\text{V/m}$)

NOTE 2 - The tighter limit applies at the band edges.

NOTE 3 - Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

NOTE 4 - The limits shown are based on Quasi-peak value detector below or equal to 1GHz and Average value detector above 1GHz.

4.4 Test Configuration

The configuration of the EUT and peripherals are same as those used in conducted emission test.

Please refer to Sec.3.4.

4.5 Operating Condition of EUT

Same as conducted emission test which is listed in Sec.3.5, except for the test setup replaced by Sec.4.2.

4.6 Test Procedures

The EUT and peripherals were placed on a FRP turntable that is 0.8 meter above ground. The FRP turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna, which was mounted on an antenna tower. Broadband antenna (Calibrated Bilog Antenna) was used as receiving antenna. The antenna moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna were set on measurement. In order to find the maximum emission, all of the interference cables were manipulated according to ANSI C63.4:2003 requirements during radiated emission test.

The I.F. bandwidth of Test Receiver R&S ESCI was set at 120 kHz.

The frequency range from 30 MHz to 1000MHz was checked for all test modes.

The test modes were done on radiated disturbance test and all the test results are listed in Sec.4.7.

4.7 Test Results

<PASS>

The frequency and amplitude of the highest radiated emission relative the limit is reported. All the emissions not reported below are too low against the FCC limit.

Test Mode	Data Page
D-Sub 1366*768@60Hz	P19
D-Sub 1024*768@75Hz	P20
D-Sub 640*480@60Hz	P21

NOTE 1 – **The bold test mode** listed above means the worst test mode.

NOTE 2 – Emission Level = Antenna Factor + Cable Loss + Meter Reading.(< 1GHz)

NOTE 3 – All readings are Quasi-Peak values.

NOTE 4 – The emission levels that are 20dB below the official limit are not reported.

NOTE 5 – 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 6 – The worst case is for D-Sub 640*480@60Hz test mode. The worst emission at horizontal polarization was detected at 171.620 MHz with corrected signal level of 32.38 dB (μV/m) (limit is 40.00 dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 275°. The worst emission at vertical polarization was detected at 120.210 MHz with corrected signal level of 29.11 dB (μV/m) (limit is 40.00 dB (μV/m)), when the antenna was 1.00 m height and the turntable was at 245°.

EUT : LCD Monitor Temperature : 22

Model No. : LS1920wG Humidity : 60%RH

Serial No. : N/A Date of Test : Mar 18, 2013

Test Mode : D-Sub 1366*768@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	74.620	21.97	6.46	1.00	29.43	40.00	10.57
	126.030	10.30	11.60	1.51	23.41	40.00	16.59
	172.590	21.75	8.34	1.80	31.89	40.00	8.11
	365.620	20.53	14.90	2.64	38.07	47.00	8.93
	568.350	12.33	19.30	3.14	34.77	47.00	12.23
	835.100	9.32	20.30	3.89	33.51	47.00	13.49
Vertical	34.850	10.07	15.85	0.71	26.63	40.00	13.37
	87.230	18.16	7.74	1.18	27.08	40.00	12.92
	120.210	14.58	11.41	1.48	27.47	40.00	12.53
	170.650	18.21	8.38	1.78	28.37	40.00	11.63
	365.620	19.79	14.90	2.64	37.33	47.00	9.67
	498.510	10.22	17.98	2.98	31.18	47.00	15.82

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22

Model No. : LS1920wG Humidity : 60%RH

Serial No. : N/A Date of Test : Mar 18, 2013

Test Mode : D-Sub 1024*768@75Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	47.460	15.95	8.30	0.84	25.09	40.00	14.91
	117.300	16.48	11.50	1.46	29.44	40.00	10.56
	210.420	17.51	7.60	2.00	27.11	40.00	12.89
	365.620	13.83	14.90	2.64	31.37	47.00	15.63
	498.510	9.00	17.98	2.98	29.96	47.00	17.04
	945.680	12.75	19.50	4.68	36.93	47.00	10.07
Vertical	70.740	19.75	5.89	0.94	26.58	40.00	13.42
	172.590	21.40	8.34	1.80	31.54	40.00	8.46
	300.630	17.35	12.60	2.55	32.50	47.00	14.50
	365.620	20.44	14.90	2.64	37.98	47.00	9.02
	498.510	11.09	17.98	2.98	32.05	47.00	14.95
	832.190	8.94	20.50	3.89	33.33	47.00	13.67

TEST ENGINEER: RAVEN JIN

EUT : LCD Monitor Temperature : 22

Model No. : LS1920wG Humidity : 60%RH

Serial No. : N/A Date of Test : Mar 18, 2013

Test Mode : D-Sub 640*480@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Emission Level dB (μV/m)	Limits dB (μV/m)	Margin (dB)
Horizontal	70.740	22.86	5.89	0.94	29.69	40.00	10.31
	171.620	22.23	8.37	1.78	32.38	40.00	7.62
	300.630	17.23	12.60	2.55	32.38	47.00	14.62
	365.620	19.94	14.90	2.64	37.48	47.00	9.52
	568.350	9.13	19.30	3.14	31.57	47.00	15.43
	835.100	4.04	20.30	3.89	28.23	47.00	18.77
Vertical	75.590	17.88	6.54	1.01	25.43	40.00	14.57
	120.210	16.22	11.41	1.48	29.11	40.00	10.89
	172.590	17.72	8.34	1.80	27.86	40.00	12.14
	239.520	16.41	11.00	2.15	29.56	47.00	17.44
	366.590	13.92	14.87	2.65	31.44	47.00	15.56
	632.370	8.16	18.42	3.32	29.90	47.00	17.10

TEST ENGINEER: RAVEN JIN

5 DEVIATION TO TEST SPECIFICATIONS

None.