

FCC TEST REPORT

For

15.6" LCD TV

MODEL No.: HLT15DC, LCD156D1, LCD156D2, LCD156DF2

Trademark: HuiDi, HEC

FCC ID: XHJHUIDI686

REPORT NO: HD10030010-1

ISSUE DATE: March 15, 2010

Prepared for

GUANGZHOU HD ELECTRONICS TECHNOLOGY CO., LTD
No. 1, Jiaochanggang, Shiji Town, Panyu District,
Guangzhou, China

Prepared by

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TEST REPORT DESCRIPTION

Applicant : GUANGZHOU HD ELECTRONICS TECHNOLOGY CO., LTD
Manufacturer : GUANGZHOU HD ELECTRONICS TECHNOLOGY CO., LTD
EUT : 15.6" LCD TV
FCC ID No. : XHJHUIDI686
Test Voltage : 120V/60Hz
File Number : ED10030010-1
Date of Test : March 01, 2010 to March 15, 2010

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B Class B July 2008 & FCC / ANSI C63.4-2003

The device described above is tested by Dongguan EMTEK Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart Class B limits both radiated and conducted emissions. The measurement results are contained in this test report and Dongguan EMTEK Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Dongguan EMTEK Co., Ltd.

Approved By



Nicol Lee / Q.A. Manager
DONGGUAN EMTEK CO., LTD.

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	: 15.6" LCD TV
Model Number	: HLT15DC, LCD156D1, LCD156D2, LCD156DF2 (Note: Those models are the same except appearance, we prepare LCD156D1 for EMC test, all models use the same FCC ID Number.)
FCC ID Number	: XHJHUIDU675
Trade Mark	: HuiDi, HEC
Power Supply	: 100~240V 50/60Hz
ADAPTER	: M/N: GP008CX Input: AC 100~240V 50/60Hz Output: DC 12V 4A Output line: Unshielded line
Applicant	: GUANGZHOU HD ELECTRONICS TECHNOLOGY CO., LTD
Address	: No.1, Jiaochanggang, Shiji Town, Panyu District, Guangzhou, China
Manufacturer	: GUANGZHOU HD ELECTRONICS TECHNOLOGY CO., LTD
Address	: No.1, Jiaochanggang, Shiji Town, Panyu District, Guangzhou, China
Date of sample receiver	: March 01, 2010
Date of Test	: March 01, 2010 to March 15, 2010

1.2. Description of Support Device

PC	: Manufacturer: Dell Inc. M/N: DCSM S/N: CXBMMZX FCC ID: DoC
USB Mouse	: Manufacturer: Dell Inc. M/N: M-UAK DEL7 P/N: XN966 FCC ID: DoC
USB Keyboard	: Manufacturer: Dell Inc. M/N: L30U S/N:D1C FCC ID: DoC
Printer	: Manufacturer: HP M/N:HP LaserJet 1020 S/N: CNCK512065 P/N: Q5911A FCC ID: DoC
Cables	
VGA Cable	: Shielded, Detachable, 1.7m (With two cores)

1.3 Test Facility

Site Description

EMC Lab. : Accredited by CNAS, 2007.07.27
The certificate is valid until 2012.07.26
The Laboratory has been assessed and proved to be in compliance with CNAS/CL01:2005
The Certificate Registration Number is L3150

Accredited by TUV Rheinland Shenzhen 2008.5
The certificate is valid until 2009.12
The Laboratory has been assessed according to the requirements ISO/IEC 17025

Accredited by FCC, Nov. 05, 2008
The Certificate Number is 247565.

Accredited by Industry Canada, May 24, 2008
The Certificate Registration Number. is 46405-4480

Name of Firm : Dongguan EMTEK Co., Ltd.
Site Location : No.281, Guantai Road, Nancheng District, Dongguan, Guangdong, China.

1.4 Measurement Uncertainty

Conducted Emission Uncertainty : $U_r = 3.3$

Radiated Emission Uncertainty : $U_c = 2.8$

Disturbance Power Uncertainty : $U_c = 2.6$

2. POWER LINE CONDUCTED MEASUREMENT

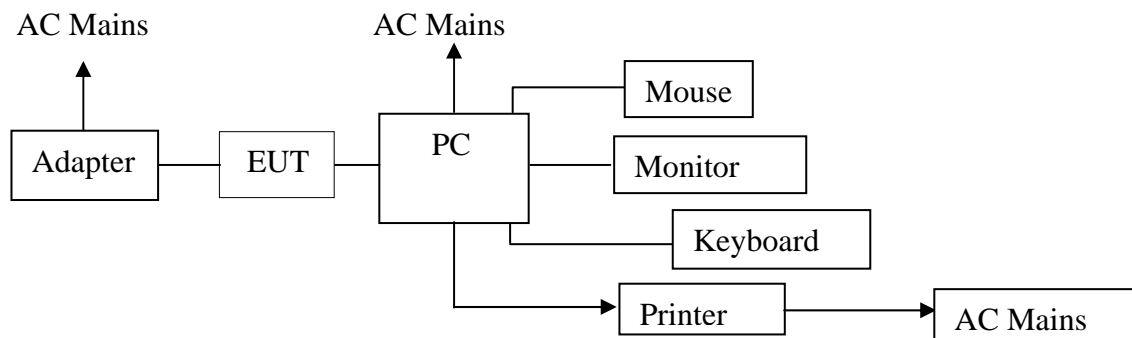
2.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	EMI Test Receiver	ROHDE&SCHWARZ	ESCS30	828985/018	May 29, 2009	1 Year
2	LISN	ROHDE&SCHWARZ	ENV216	100017	May 29, 2009	1Year
3	Conical Housing	EMTEK	N/A	N/A	May 29, 2009	N/A
4	Voltage Probe	SCHWARZBECK	EZ-17	100213	May 29, 2009	1Year
5	50 Ω Coaxial Switch	ANRITSU CORP	MP59B	6100175589	May 29, 2009	1Year

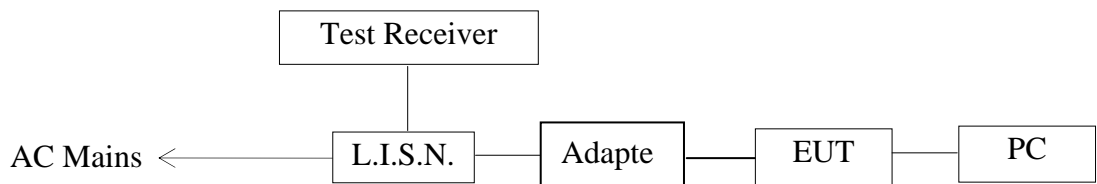
2.2. Block Diagram of Test Setup

2.2.1 Block diagram of connection between the EUT and simulators



(EUT: 15.6" LCD TV)

2.2.2 Block diagram of test setup



(EUT: 15.6" LCD TV)

2.3. Power Line Conducted Emission Measurement Limits

Conducted Emission Limits is as following.

Frequency MHz	Limits dB(μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

2.4. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

EUT : 15.6" LCD TV
Model Number : LCD156D1
Manufacturer : GUANGZHOU HD ELECTRONICS TECHNOLOGY CO., LTD

2.5. Operating Condition of EUT

2.5.1. Setup the EUT and simulator as shown as Section 2.2.

2.5.2. Turn on the power of all equipment.

2.5.3. Let the EUT work in test model (Running "H" Pattern 800*600/60Hz, Running "H" Pattern 1280*768/60Hz, Running "H" Pattern 1360*768/60Hz) and measure it.

2.6. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.4-2003 on Conducted Emission Measurement.

The bandwidth of test receiver (R&S ESCS30) is set at 9KHz.
The frequency range from 150KHz to 30MHz is checked.

2.7. Power Line Conducted Emission Measurement Results

PASS

The frequency range from 150KHz to 30 MHz is investigated.

The scanning waveforms refer to the following pages:

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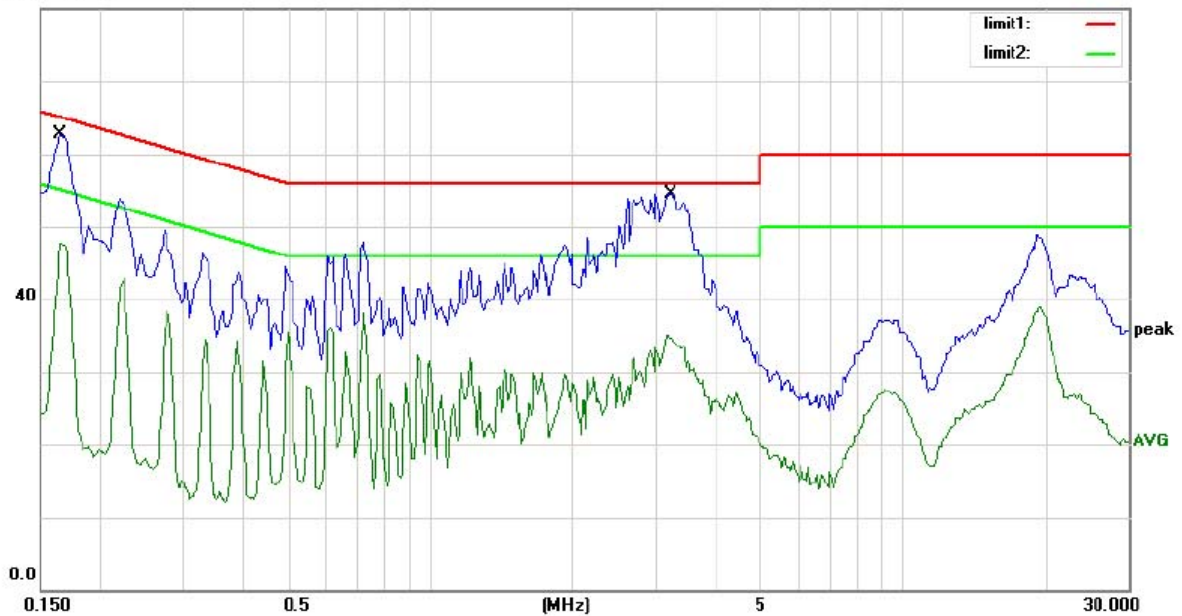
Conducted Emission Measurement

File :LCD156D1
80.0 dBuV

Data :#10

Date: 10/03/12/

Time: 9/42/10



Site site #1

Phase: **L1**

Temperature: 25

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 50 %

EUT: 15.6" LCD TV

M/N: LCD156D1

Mode: Connect to PC

Note: 800*600 60Hz

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1650	58.70	0.00	58.70	65.21	-6.51	QP	
2		0.1650	47.70	0.00	47.70	55.21	-7.51	AVG	
3	*	3.2300	50.55	0.00	50.55	56.00	-5.45	QP	
4		3.2300	35.08	0.00	35.08	46.00	-10.92	AVG	

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Conducted Emission Measurement

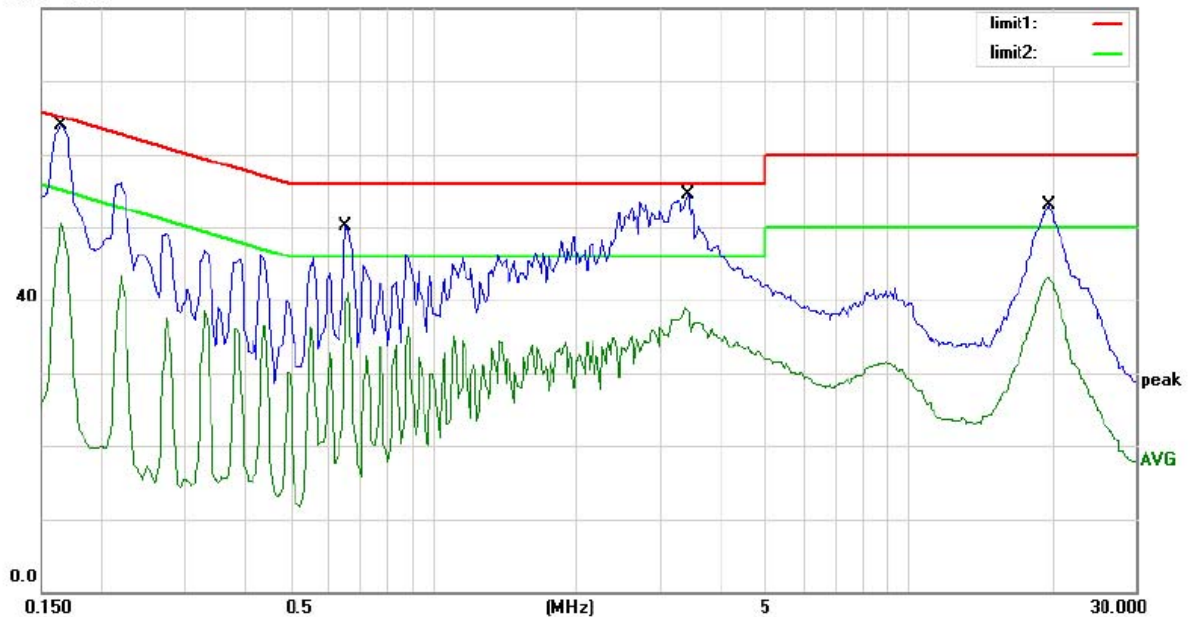
File: LCD156D1

Data: #7

Date: 10/03/12/

Time: 9/27/17

80.0 dBuV



Site site #1

Phase: N

Temperature: 25

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 50 %

EUT: 15.6" LCD TV

M/N: LCD156D1

Mode: Connect to PC

Note: 800*600 60Hz

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1650	59.90	0.00	59.90	65.21	-5.31	QP	
2	*	0.1650	50.53	0.00	50.53	55.21	-4.68	AVG	
3		0.6550	50.01	0.00	50.01	56.00	-5.99	QP	
4		0.6550	41.09	0.00	41.09	46.00	-4.91	AVG	
5		3.4500	50.46	0.00	50.46	56.00	-5.54	QP	
6		3.4500	38.86	0.00	38.86	46.00	-7.14	AVG	
7		19.8200	53.07	0.00	53.07	60.00	-6.93	QP	
8		19.8200	43.14	0.00	43.14	50.00	-6.86	AVG	

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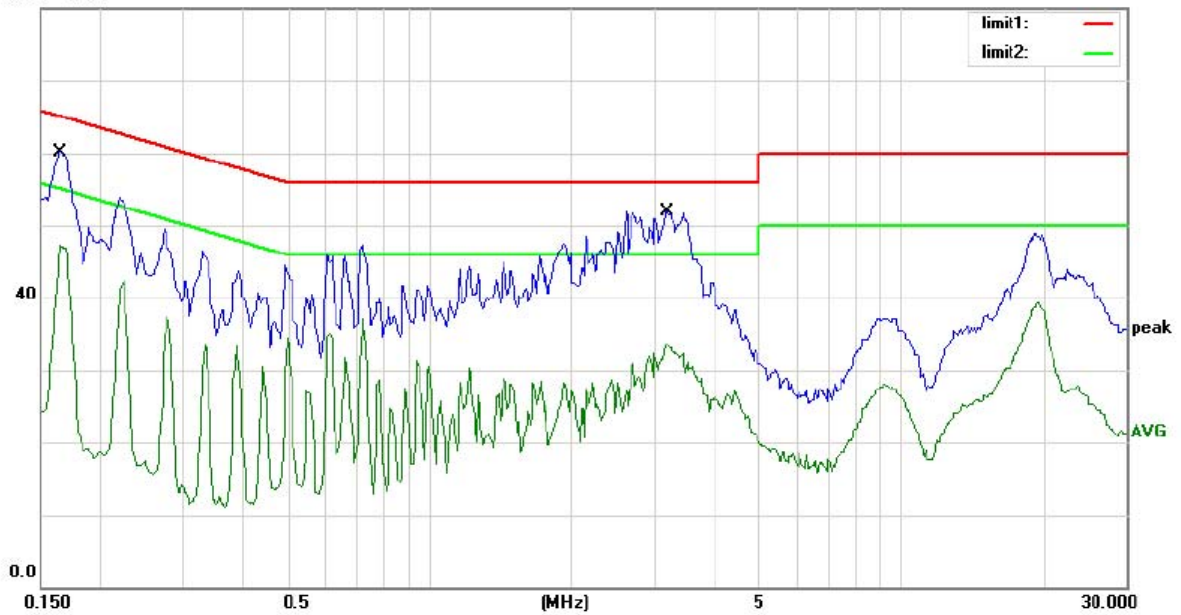
Conducted Emission Measurement

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80.0 dBuV

Data: #11

Date: 10/03/12/

Time: 9/46/25



Site site #1

Phase: **L1**

Temperature: 25

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 50 %

EUT: 15.6" LCD TV

M/N: LCD156D1

Mode: Connect to PC

Note: 1280*768 60Hz

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1650	57.20	0.00	57.20	65.21	-8.01	QP	
2		0.1650	47.20	0.00	47.20	55.21	-8.01	AVG	
3	*	3.1900	48.94	0.00	48.94	56.00	-7.06	QP	
4		3.1900	33.58	0.00	33.58	46.00	-12.42	AVG	

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Conducted Emission Measurement

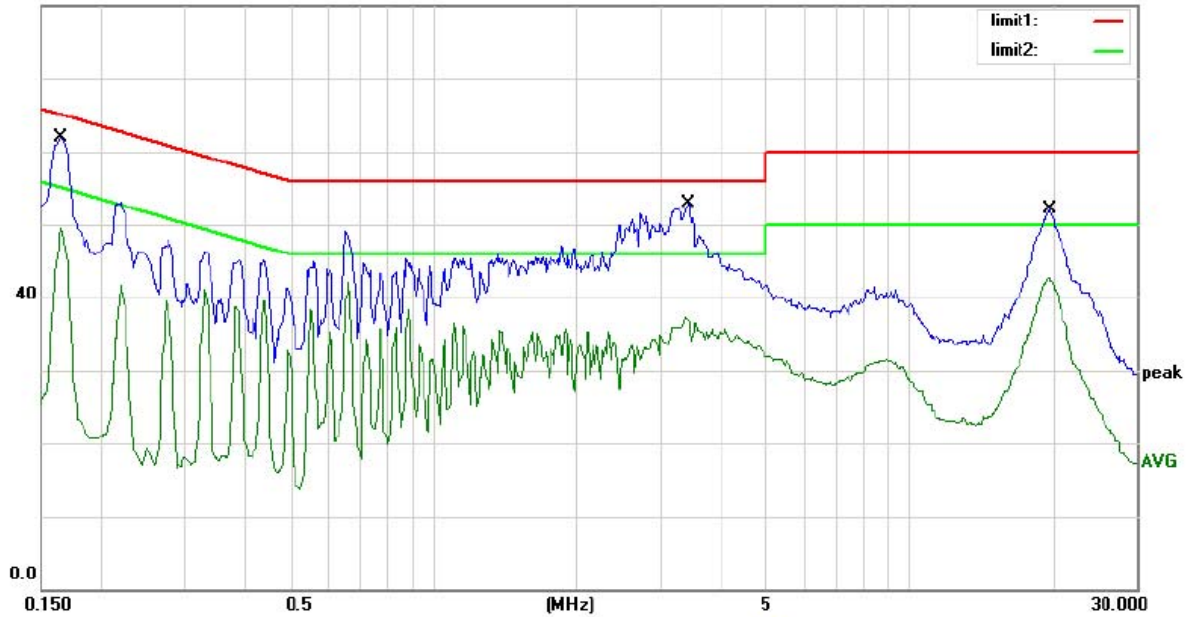
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Data: #8

Date: 10/03/12/

Time: 9/32/25

80.0 dBuV



Site site #1

Phase: N

Temperature: 25

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 50 %

EUT: 15.6" LCD TV

M/N: LCD156D1

Mode: Connect to PC

Note: 1280*768 60Hz

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1650	57.90	0.00	57.90	65.21	-7.31	QP	
2		0.1650	49.53	0.00	49.53	55.21	-5.68	AVG	
3	*	3.4500	50.96	0.00	50.96	56.00	-5.04	QP	
4		3.4500	37.36	0.00	37.36	46.00	-8.64	AVG	
5		19.8200	52.07	0.00	52.07	60.00	-7.93	QP	
6		19.8200	42.64	0.00	42.64	50.00	-7.36	AVG	

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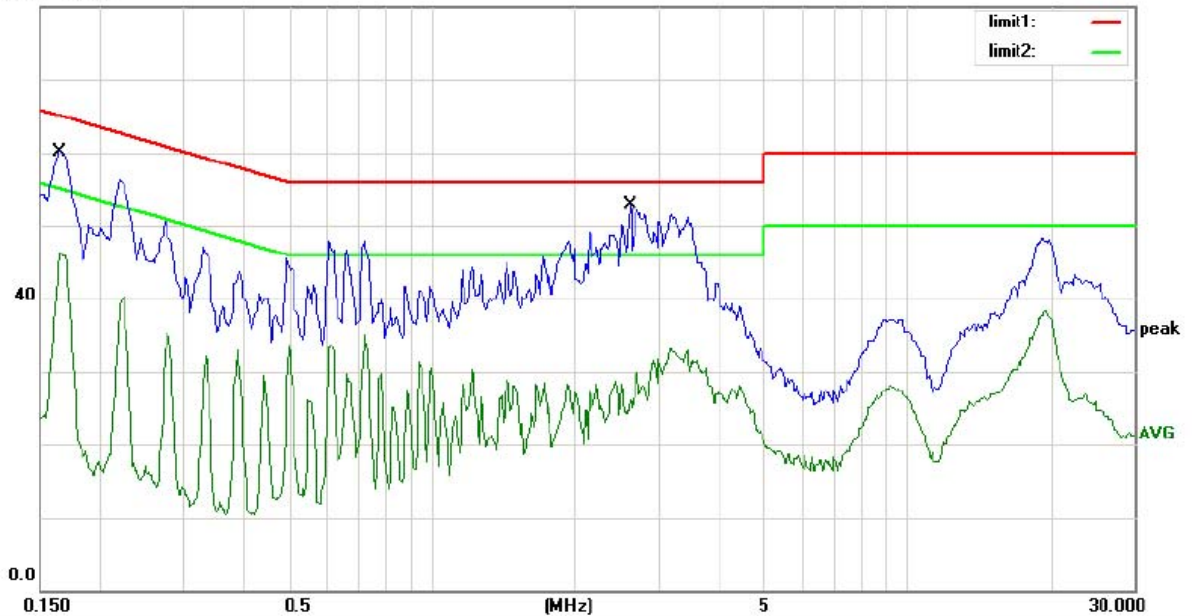
Conducted Emission Measurement

File :LCD156D1
80.0 dBuV

Data :#12

Date: 10/03/12/

Time: 9/50/41



Site site #1

Phase: **L1**

Temperature: 25

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 50 %

EUT: 15.6" LCD TV

M/N: LCD156D1

Mode: Connect to PC

Note: 1360*768 60Hz

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1650	56.20	0.00	56.20	65.21	-9.01	QP	
2		0.1650	46.20	0.00	46.20	55.21	-9.01	AVG	
3	*	2.6200	47.98	0.00	47.98	56.00	-8.02	QP	
4		2.6200	26.17	0.00	26.17	46.00	-19.83	AVG	

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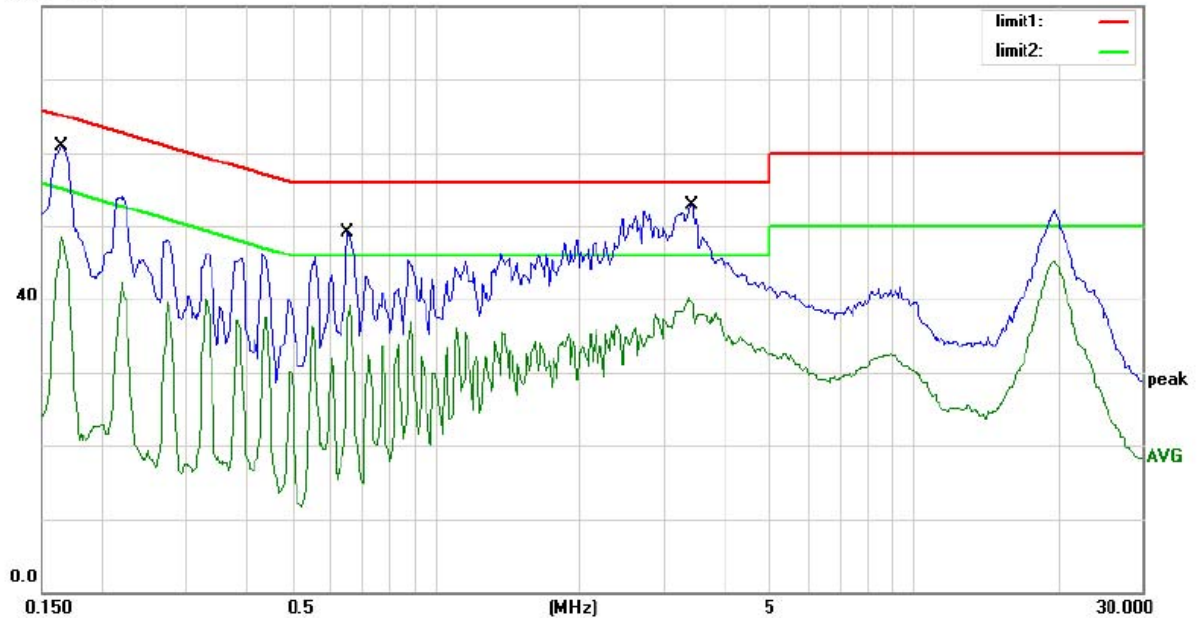
Conducted Emission Measurement

File :LCD156D1
80.0 dBuV

Data :#9

Date: 10/03/12/

Time: 9/38/47



Site site #1

Phase: **N**

Temperature: 25

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 50 %

EUT: 15.6" LCD TV

M/N: LCD156D1

Mode: Connect to PC

Note: 1360*768 60Hz

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1650	58.90	0.00	58.90	65.21	-6.31	QP	
2		0.1650	48.53	0.00	48.53	55.21	-6.68	AVG	
3		0.6550	49.01	0.00	49.01	56.00	-6.99	QP	
4		0.6550	39.09	0.00	39.09	46.00	-6.91	AVG	
5		3.4500	48.96	0.00	48.96	56.00	-7.04	QP	
6	*	3.4500	40.36	0.00	40.36	46.00	-5.64	AVG	

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

The following test equipments are used during the radiated emission measurement:

3.1.1. For Anechoic Chamber

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Rohde & Schwarz	ESCI	100137	May 29, 2009	1 Year
2.	Test Receiver	Rohde & Schwarz	ESCI	100137	May 29, 2009	1 Year
3.	Bilog Antenna	Schwarzbeck	VULB9163	143	May 29, 2009	1 Year
4.	Power Amplifier	HP	8447F	OPT H64	May 29, 2009	1 Year
5.	Positioning Controller	C&C LAB	CC-C-IF	N/A	May 29, 2009	1 Year
6.	Color Monitor	SUNSPO	SP-140A	N/A	May 29, 2009	1 Year
7.	Single Line Filter	JIANLI	XL-3	N/A	May 29, 2009	1 Year
8.	Single Phase Power Line Filter	JIANLI	DL-2X100B	N/A	May 29, 2009	1 Year
9.	3 Phase Power Line Filter	JIANLI	DL-4X100B	N/A	May 29, 2009	1 Year
10.	DC Power Filter	JIANLI	DL-2X50B	N/A	May 29, 2009	1 Year
11.	Cable	Schwarzbeck	PLF-100	N/A	May 29, 2009	1 Year
12.	Cable	Rosenberger	CIL02	A0783566	May 29, 2009	1 Year
13.	Cable	Rosenberger	AK9513	AC RX1	May 29, 2009	1 Year

3.4.EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

15.6" LCD TV (EUT)

Model Number : LCD156D1

3.5.Operating Condition of EUT

3.5.1 Setup the EUT as shown in Section 3.2.

3.5.2 Turn on the power of all equipment.

3.5.3 Let the EUT work in test mode (Running "H" Pattern 800*600/60Hz, Running "H" Pattern 1280*768/60Hz, Running "H" Pattern 1360*768/60Hz) and measure it.

3.6.Test Procedure

EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2003 on radiated emission measurement.

The bandwidth of the EMI test receiver (R&S ESCI) is set at 120KHz/1MHz.

The frequency range from 30MHz to 1000MHz is checked.

3.7.Radiated Emission Noise Measurement Results

PASS.

Test data refer to following pages.

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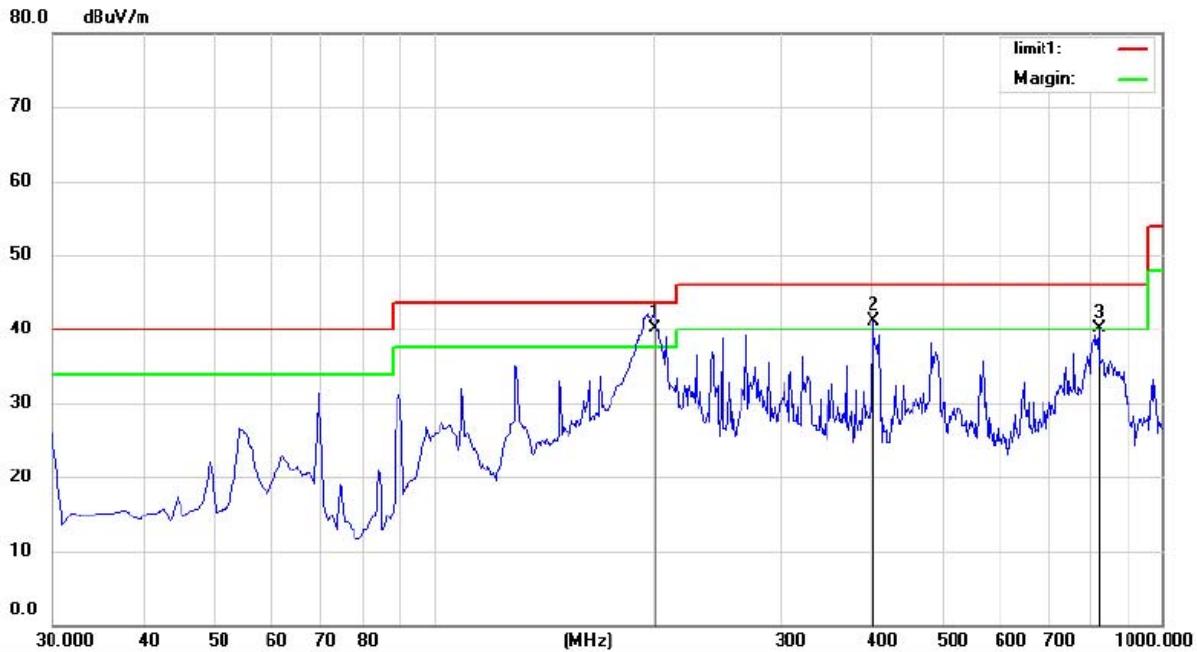
Radiated Emission Measurement

File: LCD156D1

Data: #8

Date: 10/03/09/

Time: 8/41/00



Site: Chamber #1

Polarization: **Horizontal**

Temperature: 26

Limit: (RE)FCC PART 15 class B 3m

Power: AC 120V/60Hz

Humidity: 55 %

EUT: 15.6 " LCD TV

M/N: LCD156D1

Mode: Connect to PC

Note: 800*600 60Hz

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	200.7200	54.88	-14.87	40.01	43.50	-3.49	QP		
2	!	402.4800	50.07	-8.90	41.17	46.00	-4.83	QP		
3	!	822.4900	43.24	-3.14	40.10	46.00	-5.90	QP		

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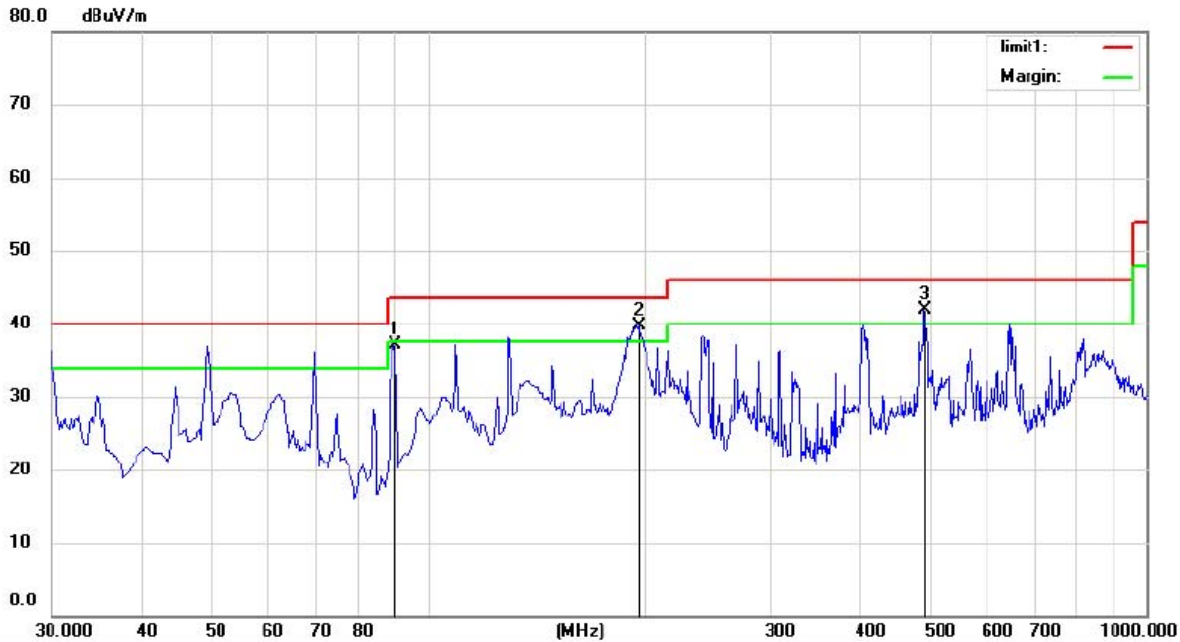
Radiated Emission Measurement

File :LCD156D1

Data :#7

Date: 10/03/09/

Time: 8/35/33



Site Chamber #1

Polarization: **Vertical**

Temperature: 26

Limit: (RE)FCC PART 15 class B 3m

Power: AC 120V/60Hz

Humidity: 55 %

EUT: 15.6 " LCD TV

M/N: LCD156D1

Mode: Connect to PC

Note: 800*600 60Hz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		90.1400	54.70	-17.58	37.12	43.50	-6.38	QP		
2	*	196.8400	54.76	-15.10	39.66	43.50	-3.84	QP		
3	!	491.7200	49.12	-7.30	41.82	46.00	-4.18	QP		

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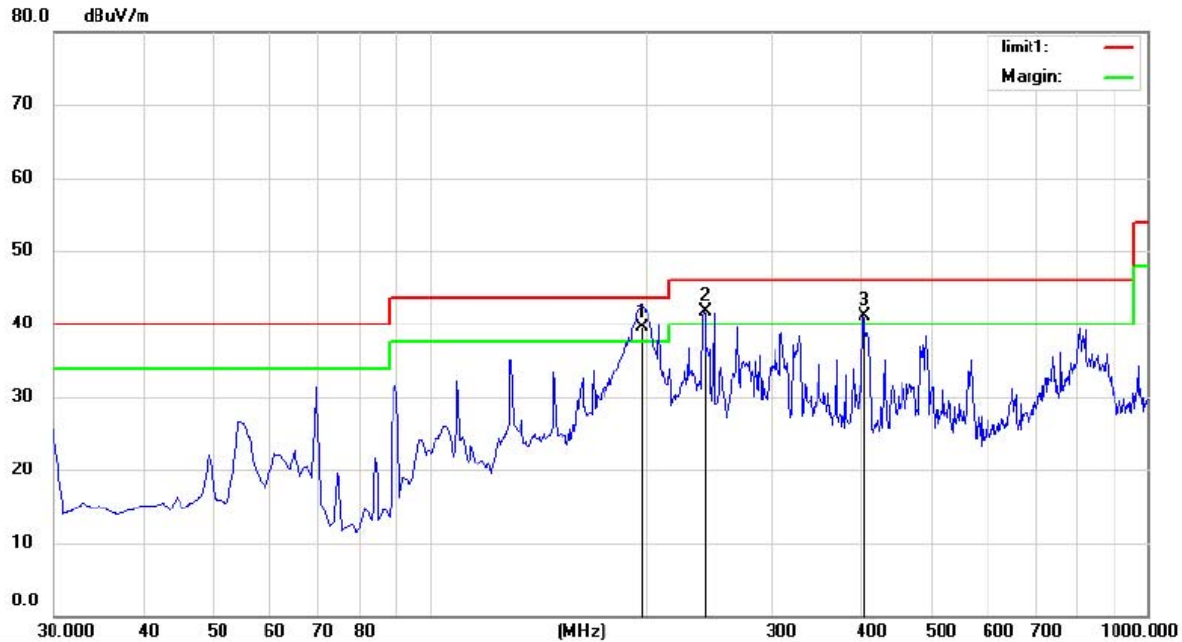
Radiated Emission Measurement

File : LCD156D1

Data : #9

Date: 10/03/09/

Time: 8/50/06



Site Chamber #1

Polarization: **Horizontal**

Temperature: 26

Limit: (RE)FCC PART 15 class B 3m

Power: AC 120V/60Hz

Humidity: 55 %

EUT: 15.6 " LCD TV

M/N: LCD156D1

Mode: Connect to PC

Note: 1024*768 60Hz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	197.8926	54.54	-15.03	39.51	43.50	-3.99	QP		
2	!	242.4300	54.65	-13.03	41.62	46.00	-4.38	QP		
3	!	403.4500	49.89	-8.88	41.01	46.00	-4.99	QP		

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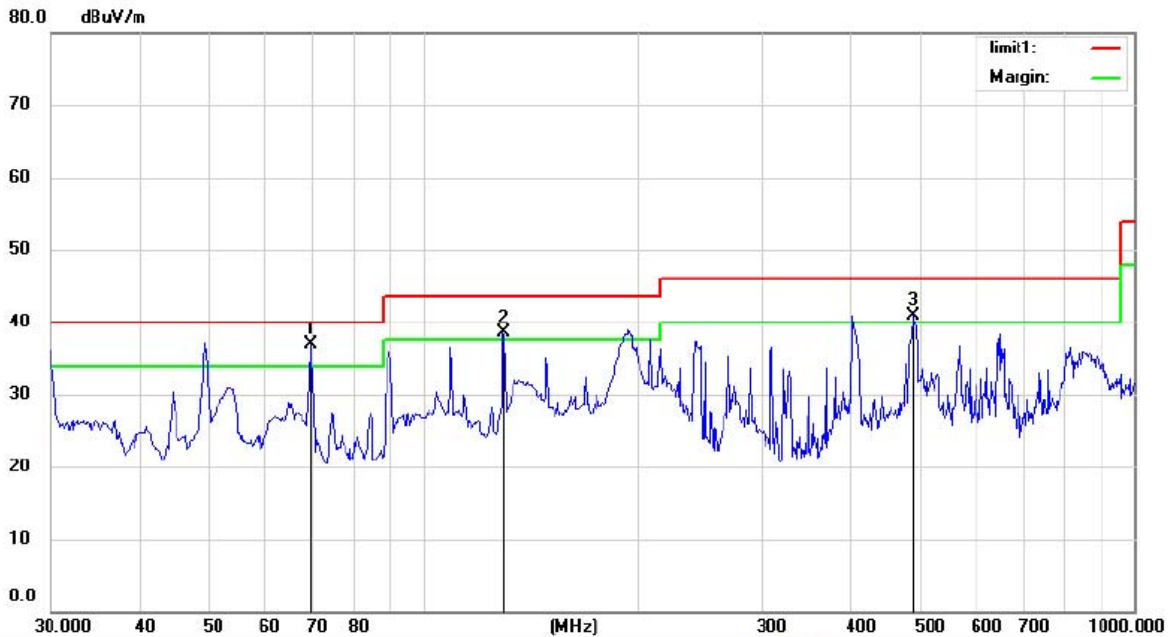
Radiated Emission Measurement

File : LCD156D1

Data : #11

Date: 10/03/09/

Time: 8/59/57



Site Chamber #1

Polarization: **Vertical**

Temperature: 26

Limit: (RE)FCC PART 15 class B 3m

Power: AC 120V/60Hz

Humidity: 55 %

EUT: 15.6 " LCD TV

M/N: LCD156D1

Mode: Connect to PC

Note: 1024*768 60Hz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	69.7700	57.78	-20.83	36.95	40.00	-3.05	QP		
2	!	129.9100	58.86	-20.33	38.53	43.50	-4.97	QP		
3	!	489.7800	48.19	-7.35	40.84	46.00	-5.16	QP		

*:Maximum data x:Over limit !:over margin

Operator:

Dongguan EMTEK Co., Ltd.
No. 281, Guantai Road, Nancheng District, Dongguan, Guangdong 523077 P.R. China
www.emtek.com.cn Tel: +86-769-2280 7078 Fax: +86-769-2280 7079



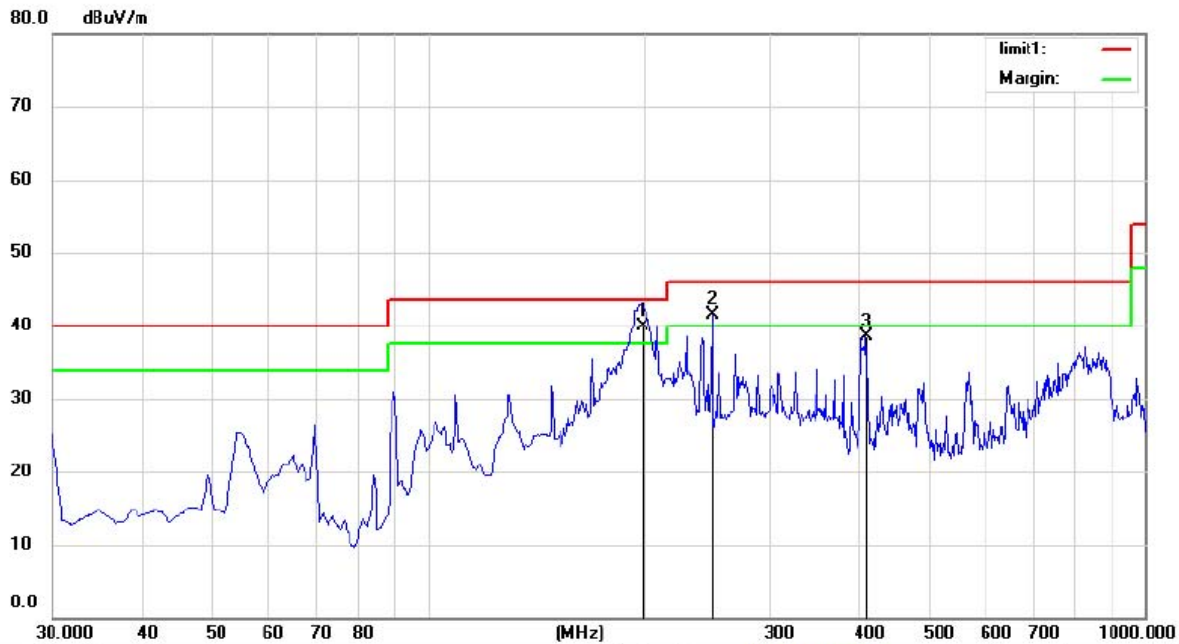
Radiated Emission Measurement

File : LCD156D1

Data : #10

Date: 10/03/09/

Time: 8/55/20



Site Chamber #1

Polarization: **Horizontal**

Temperature: 26

Limit: (RE)FCC PART 15 class B 3m

Power: AC 120V/60Hz

Humidity: 55 %

EUT: 15.6" LCD TV

M/N: LCD156D1

Mode: Connect to PC

Note: 1360*768 60Hz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	198.7800	54.94	-14.96	39.98	43.50	-3.52	QP		
2	!	250.1900	54.44	-12.92	41.52	46.00	-4.48	QP		
3		410.2400	47.18	-8.70	38.48	46.00	-7.52	QP		

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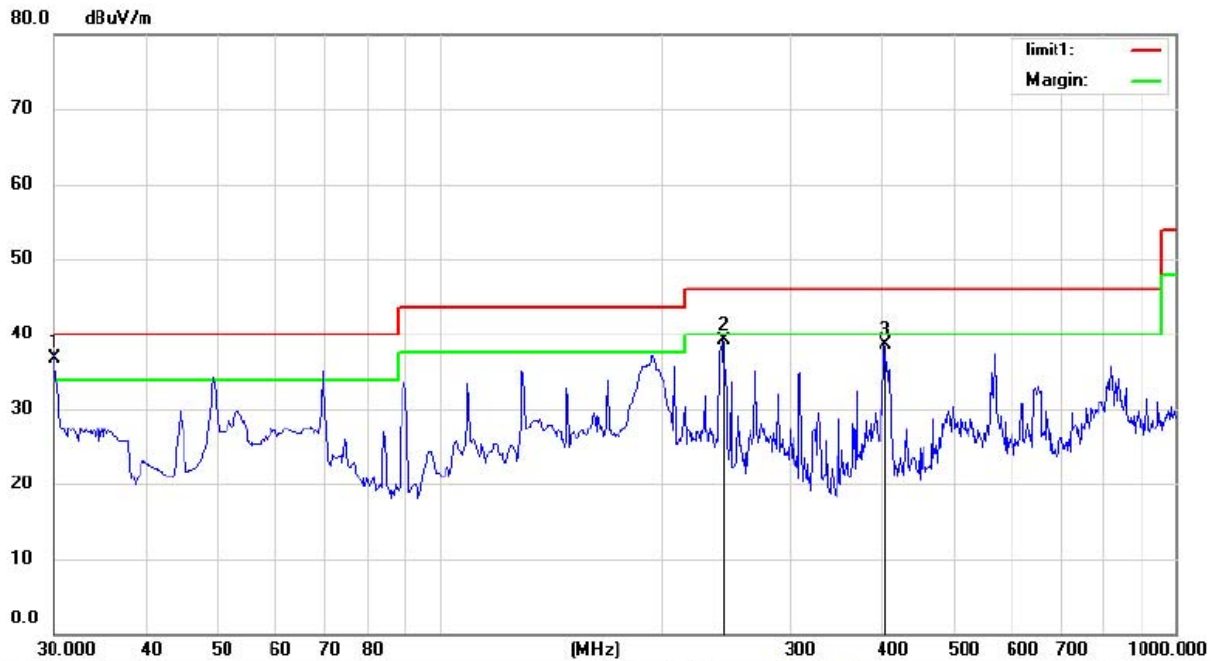
Radiated Emission Measurement

File: LCD156D1

Data: #12

Date: 10/03/09/

Time: 9/07/43



Site Chamber #1

Polarization: **Vertical**

Temperature: 26

Limit: (RE)FCC PART 15 class B 3m

Power: AC 120V/60Hz

Humidity: 55 %

EUT: 15.6" LCD TV

M/N: LCD156D1

Mode: Connect to PC

Note: 1360*768 60Hz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	30.0000	53.76	-17.15	36.61	40.00	-3.39	QP		
2		243.4000	52.12	-13.02	39.10	46.00	-6.90	QP		
3		403.4500	47.47	-8.88	38.59	46.00	-7.41	QP		

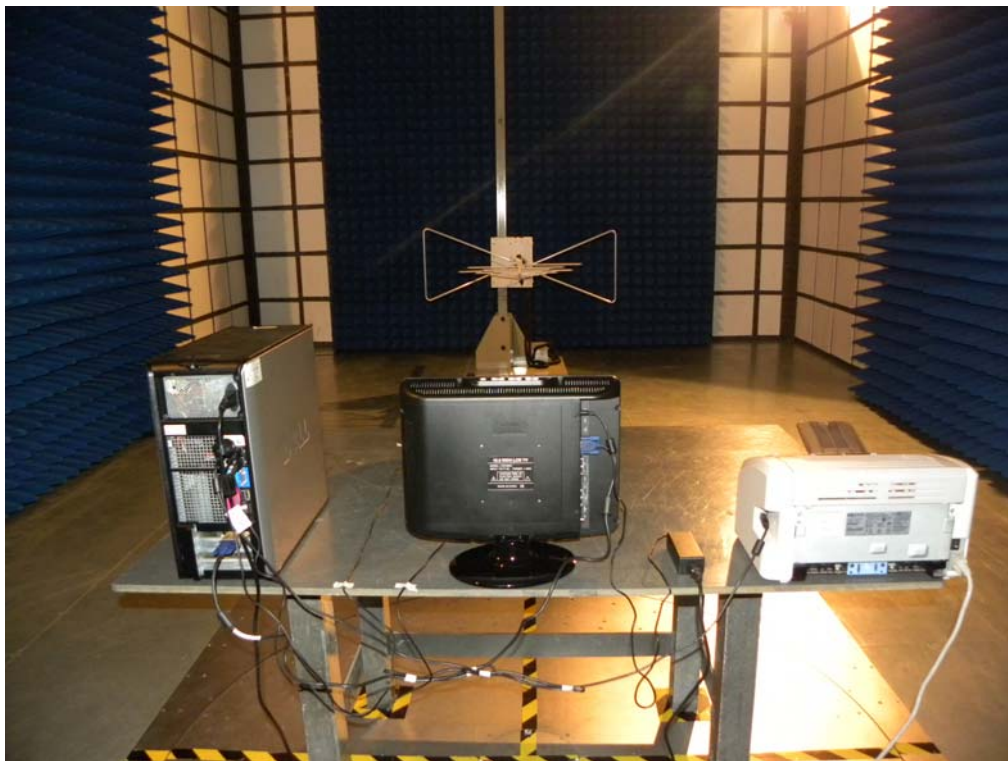
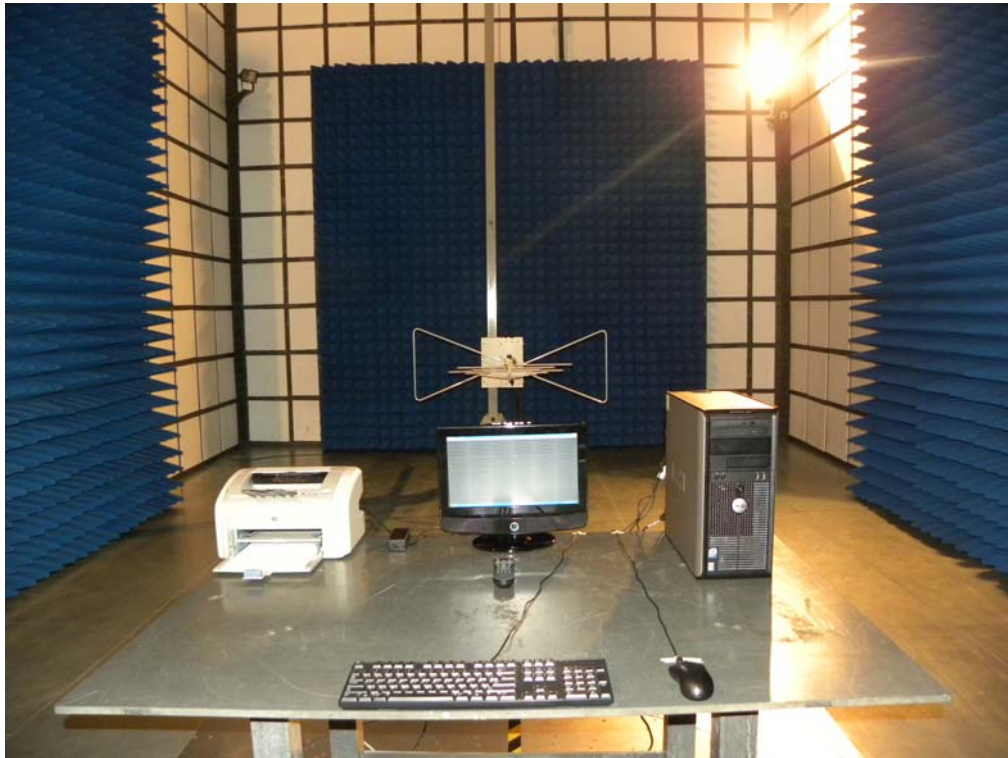
4. PHOTOGRAPHS

4.1 Photo of Power Line Conducted Emission Measurement



1

4.2 Photo of Radiated Emission Measurement



4.3 Photos of EUT

General Appearance of EUT



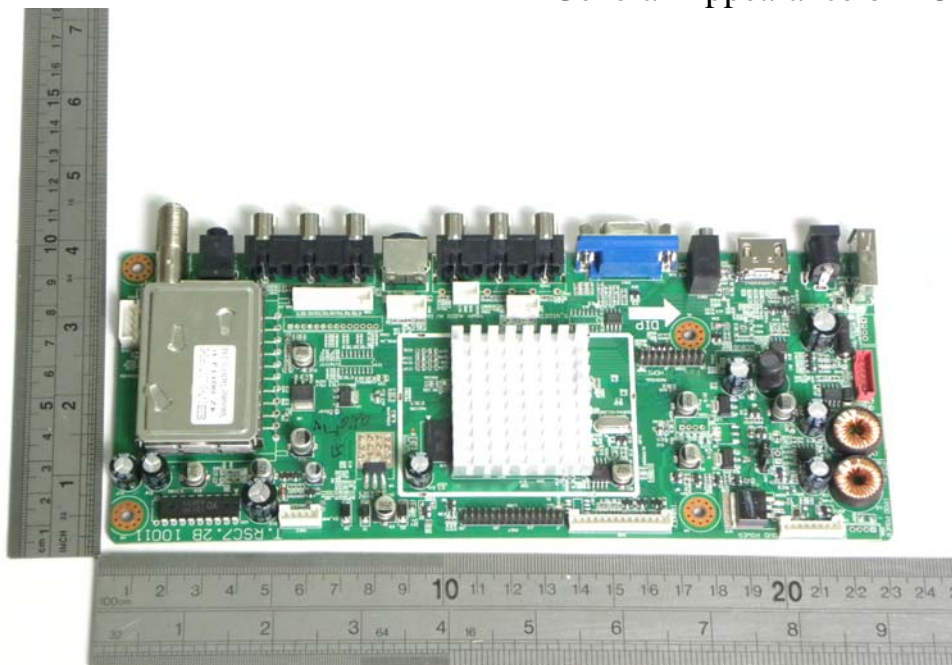
General Appearance of EUT



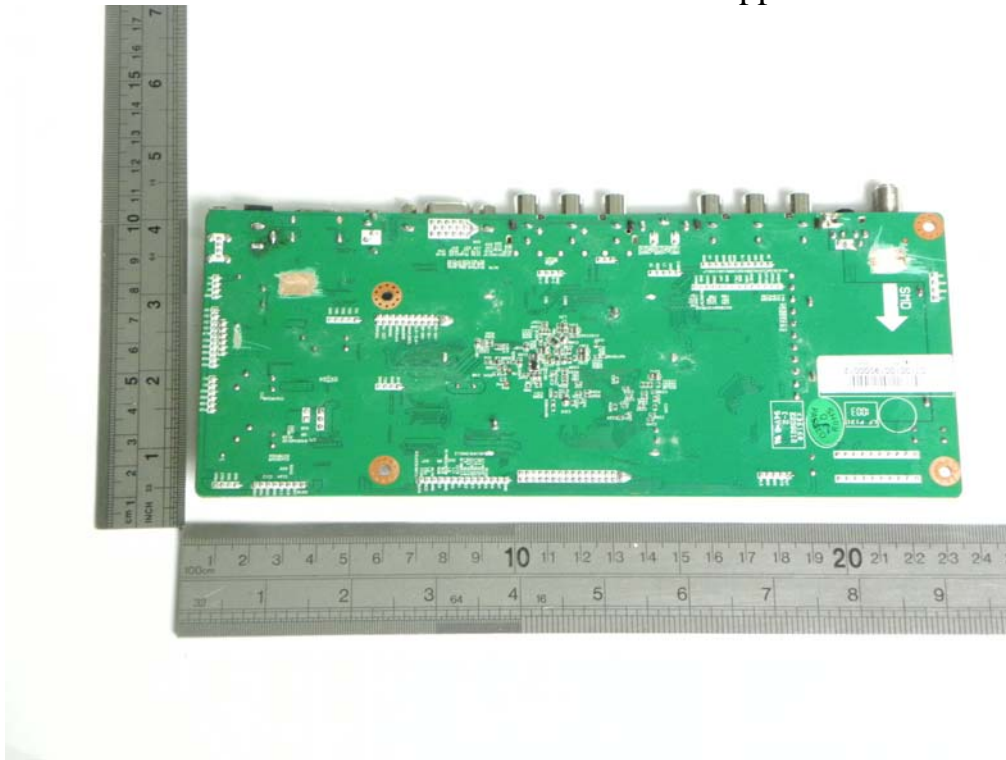
General Internal of EUT



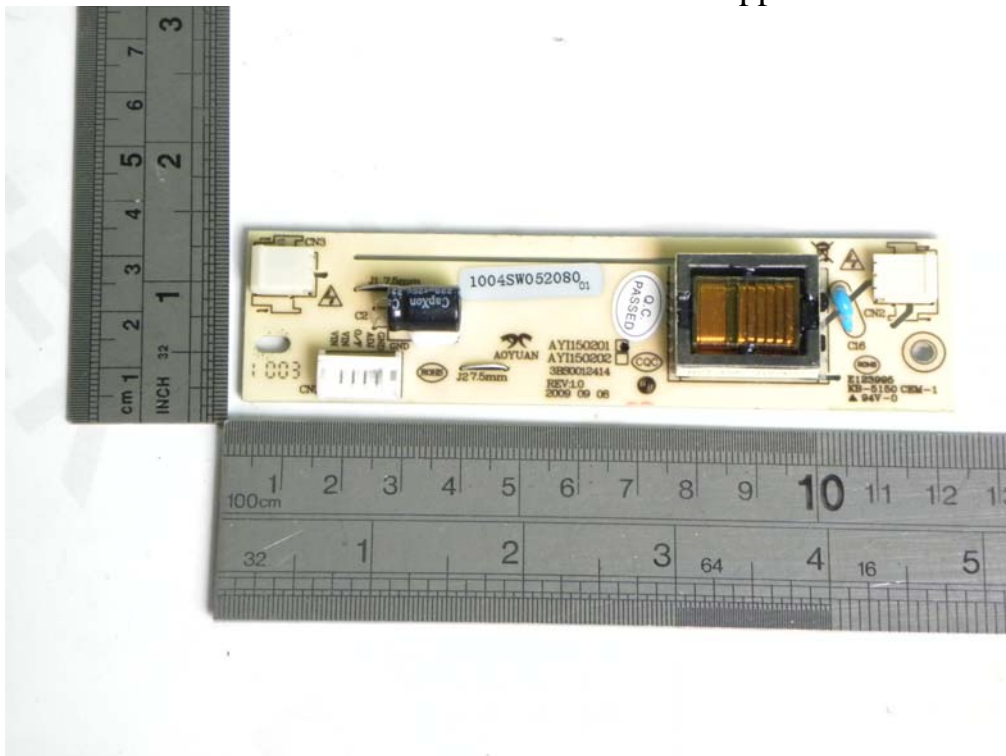
General Appearance of PCB



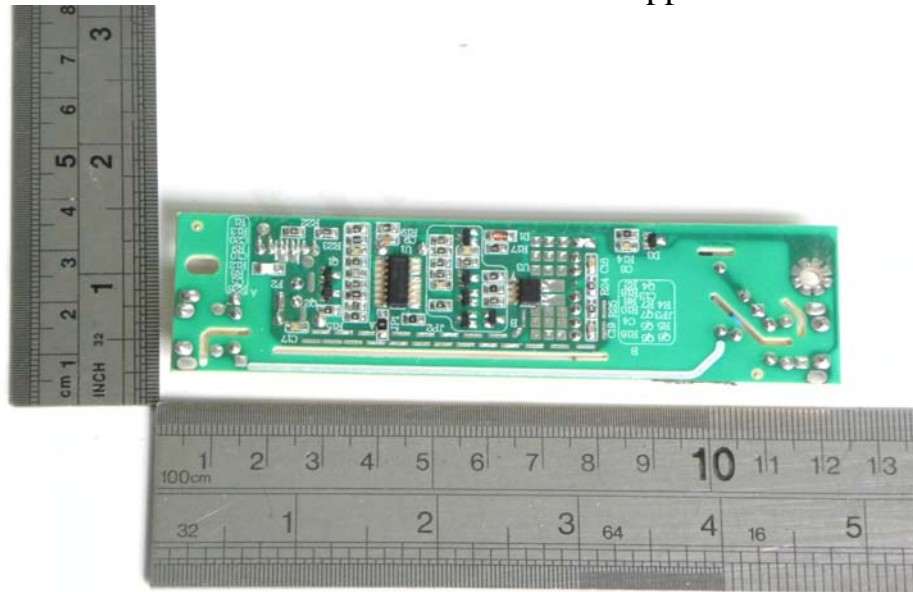
General Appearance of PCB



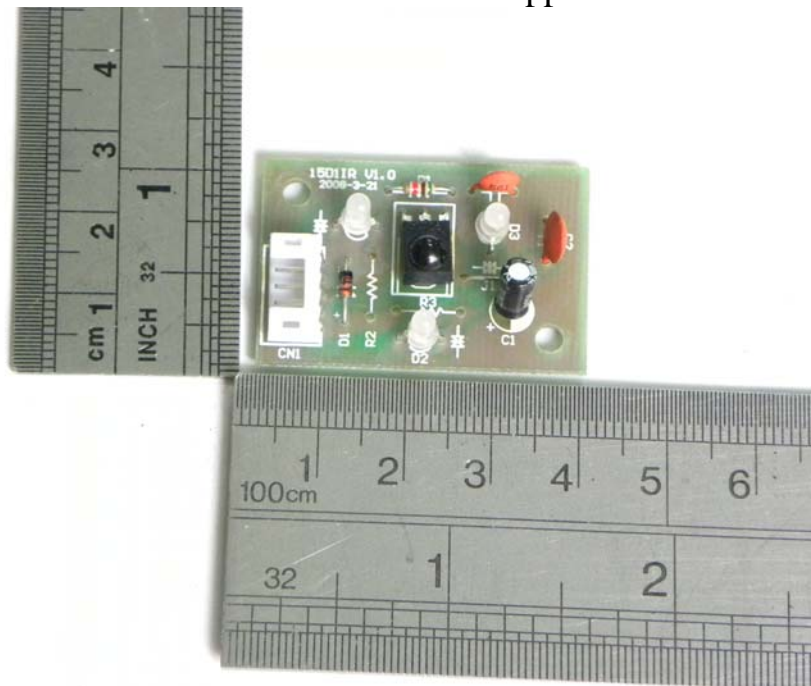
General Appearance of PCB



General Appearance of PCB



General Appearance of PCB



General Appearance of PCB

