

FCC ID:W8ULE55FHDF3300Z

APPLICATION OF CERTIFICATION For

TTE Technology Inc.

LCD TV

Brand Name	Model Number
	LE55FHDF3300Z
TCL	LE55FHDF3300ZTA
	LE55FHDF3300ZTT

FCC ID: W8ULE55FHDF3300Z

Prepared for: TTE Technology Inc.

1255 Graphite Drive, Corona, CA 92881, U.S.A.

Prepared By: Audix Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

Tel: (0755) 26639496 Fax: (0755) 26632877

Report Number : ACS- F12064

Date of Test : Apr.07~09, 2012

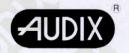
Date of Report : May.02, 2012



FCC ID:W8ULE55FHDF3300Z

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FCC ID: W8ULE55FHDF3300Z

TEST REPORT CERTIFICATION

Applicant

: TTE Technology Inc.

Manufacturer

TCL King Electrical Appliances (Huizhou) Co., Ltd.

EUT Description

LCD TV

FCC ID

W8ULE55FHDF3300Z

(A) Model No. &:

Brand Name

Brand Name	Model Number
	LE55FHDF3300Z
TCL	LE55FHDF3300ZTA
	LE55FHDF3300ZTT

(B) Power Supply : AC 120V/60Hz (C) Test Voltage : AC 120V/60Hz

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart B Class B 2010, ANSI C63.4: 2009 ICES-003 Issue 4 February 2004.

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) 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 limits both conducted and radiated emissions. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed of full responsibility for the accuracy and completeness of these tests. This report contains data that are not covered by the NVLAP accreditation.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The 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: Apr.07~09, 2012 Report of date: May.02, 2012

Selina Liu / Assistant (UDI)

Reviewed by (泽圳) 有限的 Jens

EMC部門報告專用章

Stamp only for EMC Dept. Report

Signature:

Ken Lu / Manager

Approved & Authorized Signer:

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.

EMISSION					
Description of Test Item	Standard	Results	Remarks		
Power Line Conducted Emission Test	FCC Part 15: 2010 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 18.81dB at 2.012MHz		
Radiated Emission Test (30-1000MHz)	Test FCC Part 15: 2010 ANSI C63.4: 2009		Meets Class B Limit Minimum passing margin is 1.02dB at 584.990MHz		
Radiated Emission Test (1-2GHz)	FCC Part 15: 2010 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 3.32dB at 1485.100MHz		



2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Description : LCD TV

Model Number&: Brand Name

Brand Name	Model Number
	LE55FHDF3300Z
TCL	LE55FHDF3300ZTA
	LE55FHDF3300ZTT

Only the Model Name is difference.

FCC ID : W8ULE55FHDF3300Z

Applicant : TTE Technology Inc.

1255 Graphite Drive, Corona, CA 92881, U.S.A.

Manufacturer : TCL King Electrical Appliances (Huizhou) Co., Ltd.

Section 19, Zhongkai Development Zone for New & High-Level Tech Industries, Huizhou, Guangdong Province, China, 516006.

FREQUENCIES USED AND GENERATED WITHIN DEVICE						
X54M1	4M1 45-OSC54M-0Y1CR 54MHz					
LVDS CLOCK	81.43MHZ					
IF	44MHz					
DC-DC	U302->385KHz	U303->1MHz				
DDR	390MHz					
AMP	384KHz					

Power Cord : Unshielded, Undetachable, 2.0m

Date of Test : Apr.07~09, 2012

Date of Receipt : Apr.06, 2012

Sample Type : Prototype production



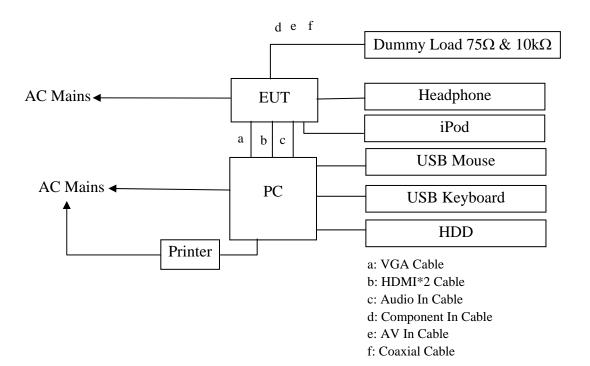
2.2.Tested Supporting System Details

	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type	
1.	Personal	Test PC M	DELL	Studio 540	224XK2X	☑FCC DoC ☑BSMI ID:R33002	
1,.	Computer	Power Cord: Unshie Display Card: HD34	·				
2.	USB Keyboard	ACS-EMC- K04R	DELL	SK-8115	CN-ODJ313-7161 6-6BB-049J	☑ FCC DoC ☑BSMI ID: T3A002	
2.		Data Cable: shielded	l, Undetachable, 2	2.0m			
3.	Headphone	ACS-EMC-EP03	OVANN	OV880V	N/A	□FCC ID □BSMI ID	
	Treadphone	Cable: Shielded, Un	detachabled, 4.0n	n			
		ACS-EMC-PT04	НР	C9079A	N/A	☑FCC DoC ☑BSMI ID: R33001	
4.		USB Cable: Shielded, Detachabled, 1.8m Power Cord: Unshielded, Detachabled, 1.8m Power Adapter: HP, M/N: 0957-2119, BSMI ID: R33030, DC Cable: Unshielded, Detachabled, 1.5m					
5.	USB Mouse	ACS-EMC-M04R	DELL	M056UO	512024282	☑ FCC DoC ☑BSMI ID: R41108	
		Data Cable: shielded, Undetachable, 1.8m					
6.	iPod nano	ACS-EMC-IP03	APPLE	A1199	YM711H3LVQ5	☑FCC DoC ☑BSMI ID: R33057	
		Data Cable: Shielded	d, Detachabled, 1	.0m			
7.	HDD	ACS-EMC-HDD03	Terasys	F12-UF	A0100215-53900 30	☑FCC DoC ☑BSMI ID: 4912A022	
		USB Cable: Shielded, Detachable, 1.8m					
8.	i i jiimmy i oao	Component In Cable: Unshielded, Detachabled, 1.5m AV Cable: Unshielded, Detachable, 1.5m Coaxial Cable: Unshielded, Detachable, 1.5m					
9.	D-Sub Cable: Shielded, Detachable, 1.5m						

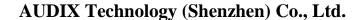
Audix Technology (Shenzhen) Co., Ltd. Report No. ACS-F12064

FCC ID:W8ULE55FHDF3300Z

2.3.Block diagram of connection between the EUT and simulators



(EUT: LCD TV)





2.4. Test Facility

Site Description

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

No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

3m Anechoic Chamber : Certificated by FCC, USA

Registration Number: 90454 Valid Date: Feb.22, 2015

3m & 10m Anechoic Chamber : Certificated by FCC, USA

Registration Number: 794232 Valid Date: Dec.30, 2012

EMC Lab. : Certificated by DAkkS, Germany

Registration No: D-PL-12151-01-01

Valid Date: Feb.01, 2014

Accredited by NVLAP, USA NVLAP Code: 200372-0 Valid Date: Mar.31, 2013

2.5. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty		
Uncertainty for Conduction emission test in No. 1 Conduction	3.2 dB		
	3.6 dB(30~200MHz, Polarize: H)		
Uncertainty for Radiation Emission test	3.8 dB(30~200MHz, Polarize: V)		
in 3m chamber	4.2 dB(200M~1GHz, Polarize: H)		
	3.8 dB(200M~1GHz, Polarize: V)		
Uncertainty for Radiation Emission test in	3.1dB(Distance: 3m Polarize: V)		
3m chamber (1GHz-18GHz)	3.7 dB(Distance: 3m Polarize: H)		
Uncertainty for test site temperature	3%		
and humidity	$0.6^{\circ}\mathbb{C}$		

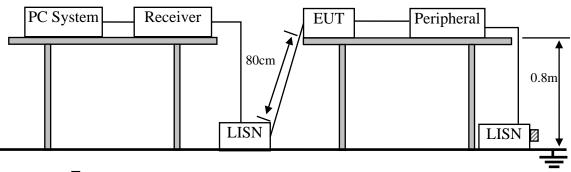


3. POWER LINE CONDUCTED EMISSION TEST

3.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Oct.31, 11	1 Year
2.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	Oct.31, 11	1 Year
3.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May.08, 11	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May.08, 11	1 Year
5.	Terminator	Hubersuhner	50Ω	No. 2	May.08, 11	1 Year
6.	RF Cable	Fujikura	3D-2W	No.1	May.08, 11	1Year
7.	Coaxial Switch	Anritsu	MP59B	M50564	May.08, 11	1 Year
8.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 11	1 Year

3.2.Block Diagram of Test Setup



☑ :50Ω Terminator

3.3. Power Line Conducted Emission Test Limits

	Maximum RF Line Voltage			
Frequency	Quasi-Peak Level	Average Level		
	$dB(\mu V)$	$dB(\mu V)$		
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*		
500kHz ~ 5MHz	56	46		
5MHz ~ 30MHz	60	50		

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

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

3.4.1.LCD TV (EUT)

Model Number : LE55FHDF3300Z

Serial Number : N/A

3.4.2. Support Equipment: As Tested Supporting System Detail, in Section 2.2.



3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2. Turn on the power of all equipment.
- 3.5.3. PC system ran the Self-test program "EMC Test. exe" by windows XP and sent "H" Character to LCD TV (EUT), the Screen of EUT displayed and filled with "H" pattern, use white letters on a blackground, set the contrast control to maximum, set the brightness control to maximum and measure it.
- 3.5.4. The PC system was running the program "1kHz signal Playing" and sending sound to EUT.
- 3.5.5. The other peripheral devices were driven and operated in turn during all testing.

3.6.Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#3). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4: 2009 on conducted Emission test.

The bandwidth of test receiver (R&S TEST RECEIVER ESHS10) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked. The test result are reported on Section 3.7.

3.7. Conducted Disturbance at Mains Terminals Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

The EUT with the following test modes were tested and selected to read Q.P values and average values, all the test results are listed in next pages.

EUT: LCD TV Model No.: LE55FHDF3300Z

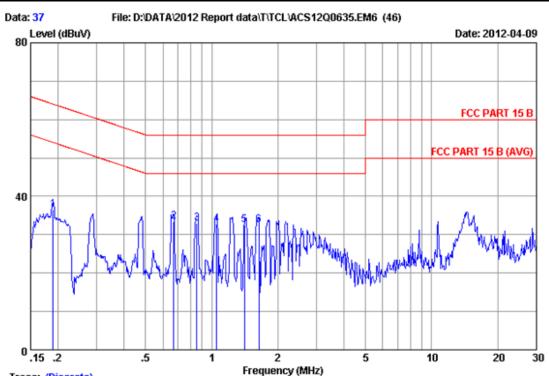
Test Date: Apr.09, 2012 Temperature: 25.5°C Humidity: 55%

The details of test modes are as follows:

No	Toot Mode	In must Don't	Resolution &	Reference Test Data No.	
No.	Test Mode	Input Port	Frequency	Line	Neutral
1.			640*480 @60Hz	#37	#38
2.		VGA	1024*768 @ 60Hz	#40	#39
3.	PC Mode		1920*1080@60Hz	#41	#42
4.		HDMI 1	1920*1080@60Hz	#44	#43
5.**		HDMI 2	1920*1080@60Hz	#45	#46

(* Worst test mode)





Trace: (Discrete)

Site no :1#conduction Data No :37

Dis./Ant. :** 2011 ESH2-Z5 LINE

Limit :FCC PART 15 B

Env./Ins. :25.5*C/55% Engineer :Jerry

EUT :LCD TV M/N:LE55FHDF3300Z

Power Rating :AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

:VGA:640*480@60Hz

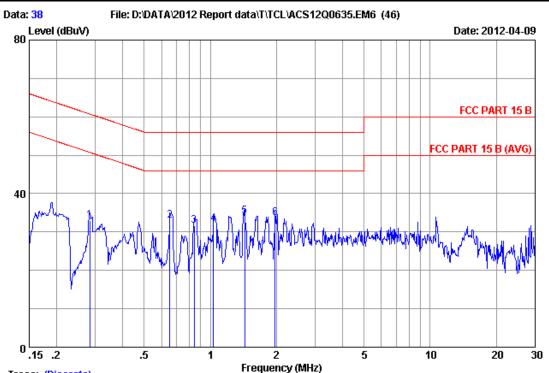
No 	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18938	0.15	9.98	26.35	36.48	64.06	27.58	QP
2	0.67187	0.16	9.97	23.34	33.47	56.00	22.53	QP
3	0.85729	0.16	9.97	22.94	33.07	56.00	22.93	QP
4	1.054	0.17	9.98	22.66	32.81	56.00	23.19	QP
5	1.411	0.18	9.98	22.37	32.53	56.00	23.47	QP
6	1.636	0.19	9.97	22.32	32.48	56.00	23.52	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)
+Reading.



FCC ID: W8ULE55FHDF3300Z

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Trace: (Discrete)

Site no :1#conduction Data No :38

Dis./Ant. :** 2011 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 B

Env./Ins. :25.5*C/55% Engineer :Jerry

EUT :LCD TV M/N:LE55FHDF3300Z

Power Rating : AC 120V/60Hz

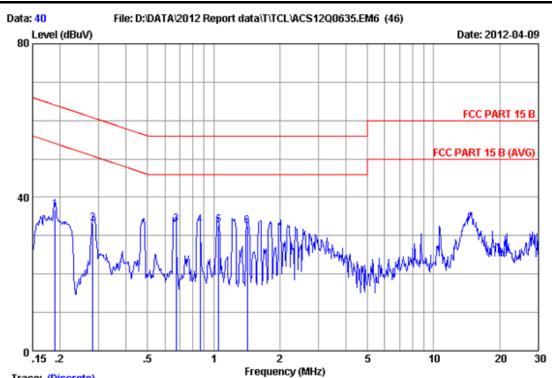
Test Mode : Running "H" Pattern And 1KHz Playing

:VGA:640*480@60Hz

No 	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emissior Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.28328	0.14	9.98	22.77	32.89	60.72	27.83	QP
2	0.65430	0.16	9.97	22.92	33.05	56.00	22.95	QP
3	0.84378	0.16	9.97	21.56	31.69	56.00	24.31	QP
4	1.032	0.17	9.98	22.02	32.17	56.00	23.83	QP
5	1.433	0.18	9.98	23.93	34.09	56.00	21.91	QP
6	1.970	0.20	9.97	23.53	33.70	56.00	22.30	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit) +Reading.





Trace: (Discrete)

Site no :1#conduction Data No

: * * 2011 ESH2-Z5 LINE Dis./Ant.

Limit :FCC PART 15 B

Env./Ins. :25.5*C/55% Engineer :Jerry

:LCD TV M/N:LE55FHDF3300Z EUT

Power Rating : AC 120V/60Hz

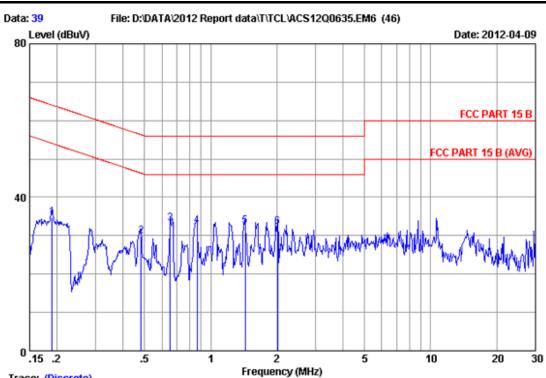
Test Mode :Running "H" Pattern And 1KHz Playing

:VGA:1024*768@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18938	0.15	9.98	26.59	36.72	64.06	27.34	QP
2	0.28178	0.15	9.98	23.16	33.29	60.76	27.47	QP
3	0.67544	0.16	9.97	22.75	32.88	56.00	23.12	QP
4	0.86643	0.17	9.98	22.62	32.77	56.00	23.23	QP
5	1.054	0.17	9.98	22.50	32.65	56.00	23.35	QP
6	1.418	0.18	9.98	22.44	32.60	56.00	23.40	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)





Trace: (Discrete)

Site no :1#conduction Data No

: * * 2011 ESH2-Z5 NEUTRAL Dis./Ant.

Limit :FCC PART 15 B

Env./Ins. :25.5*C/55% Engineer :Jerry

:LCD TV M/N:LE55FHDF3300Z EUT

Power Rating : AC 120V/60Hz

Test Mode :Running "H" Pattern And 1KHz Playing

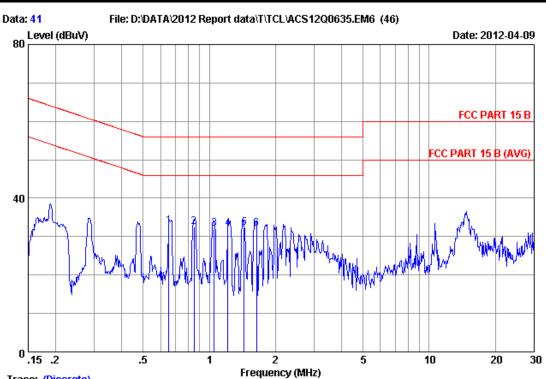
:VGA:1024*768@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18938	0.14	9.98	24.74	34.86	64.06	29.20	QP
2	0.48119	0.15	9.98	19.68	29.81	56.32	26.51	QP
3	0.65430	0.16	9.97	22.96	33.09	56.00	22.91	QP
4	0.86643	0.17	9.98	22.38	32.53	56.00	23.47	QP
5	1.433	0.18	9.98	22.36	32.52	56.00	23.48	QP
6	2.012	0.20	9.97	22.09	32.26	56.00	23.74	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)



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Trace: (Discrete)

:1#conduction Site no Data No :41

:** 2011 ESH2-Z5 LINE Dis./Ant.

Limit :FCC PART 15 B

:25.5*C/55% Env./Ins. Engineer :Jerry

:LCD TV M/N:LE55FHDF3300Z

Power Rating : AC 120V/60Hz

:Running "H" Pattern And 1KHz Playing Test Mode

:VGA:1920*1080@60Hz

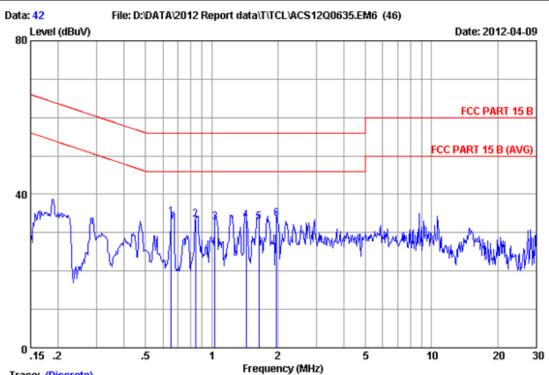
No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.65430	0.16	9.97	22.56	32.69	56.00	23.31	QP
2	0.85276	0.16	9.97	22.36	32.49	56.00	23.51	QP
3	1.054	0.17	9.98	21.98	32.13	56.00	23.87	QP
4	1.216	0.18	9.98	21.91	32.07	56.00	23.93	QP
5	1.441	0.18	9.98	22.10	32.26	56.00	23.74	QP
6	1.636	0.19	9.97	22.02	32.18	56.00	23.82	QP

Remarks: 1. Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)



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Trace: (Discrete)

Site no :1#conduction Data No

:** 2011 ESH2-Z5 NEUTRAL Dis./Ant.

Limit :FCC PART 15 B

Env./Ins. :25.5*C/55% Engineer :Jerry

:LCD TV M/N:LE55FHDF3300Z EUT

Power Rating : AC 120V/60Hz

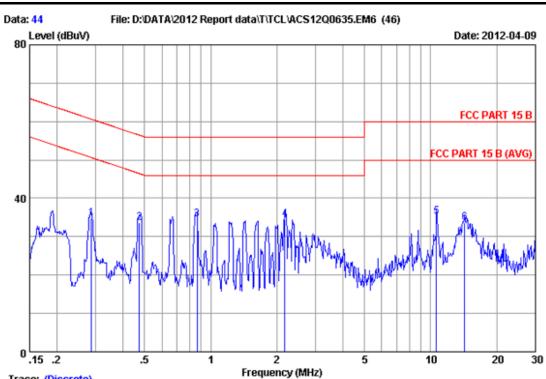
Test Mode :Running "H" Pattern And 1KHz Playing

:VGA:1920*1080@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.65430	0.16	9.97	23.95	34.08	56.00	21.92	QP
2	0.84378	0.16	9.97	23.26	33.39	56.00	22.61	QP
3	1.032	0.17	9.98	22.66	32.81	56.00	23.19	QP
4	1.433	0.18	9.98	23.06	33.22	56.00	22.78	QP
5	1.636	0.19	9.97	22.66	32.82	56.00	23.18	QP
6	1.970	0.20	9.97	23.43	33.60	56.00	22.40	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)





Trace: (Discrete)

Site no :1#conduction Data No

: * * 2011 ESH2-Z5 LINE Dis./Ant.

Limit :FCC PART 15 B

Env./Ins. :25.5*C/55% Engineer :Jerry

:LCD TV M/N:LE55FHDF3300Z EUT

Power Rating : AC 120V/60Hz

Test Mode :Running "H" Pattern And 1KHz Playing

:HDMI 1:1920*1080@60Hz

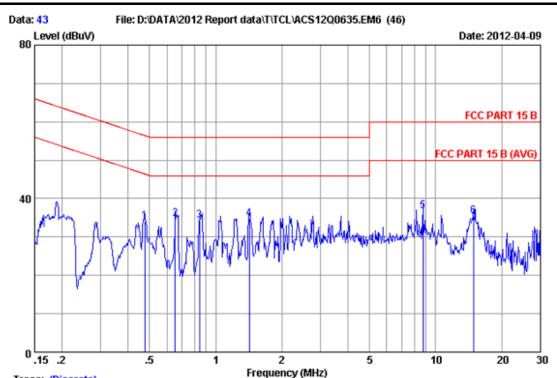
No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.28630	0.15	9.98	24.53	34.66	60.63	25.97	QP
2	0.47360	0.16	9.98	23.60	33.74	56.45	22.71	QP
3	0.86643	0.17	9.98	24.35	34.50	56.00	21.50	QP
4	2.178	0.20	9.97	24.40	34.57	56.00	21.43	QP
5	10.620	0.33	9.90	25.05	35.28	60.00	24.72	QP
6	14.288	0.39	9.92	23.32	33.63	60.00	26.37	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)



FCC ID: W8ULE55FHDF3300Z 3-10

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Trace: (Discrete)

Site no :1#conduction

Dis./Ant. :** 2011 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 B

Env./Ins. :25.5*C/55% Engineer :Jerry

EUT :LCD TV M/N:LE55FHDF3300Z

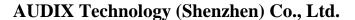
Power Rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

:HDMI 1:1920*1080@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.47612	0.15	9.98	23.94	34.07	56.41	22.34	QP
2	0.65430	0.16	9.97	24.57	34.70	56.00	21.30	QP
3	0.84378	0.16	9.97	24.11	34.24	56.00	21.76	QP
4	1.418	0.18	9.98	24.67	34.83	56.00	21.17	QP
5	8.776	0.28	9.91	26.61	36.80	60.00	23.20	QP
6	14.907	0.32	9.92	25.13	35.37	60.00	24.63	QP

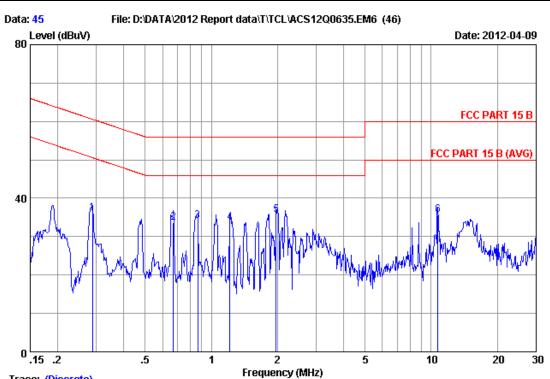
Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit) +Reading.





FCC ID: W8ULE55FHDF3300Z 3-11

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Trace: (Discrete)

:1#conduction Site no Data No :45

:** 2011 ESH2-Z5 LINE Dis./Ant.

:FCC PART 15 B Limit

Env./Ins. :25.5*C/55% Engineer :Jerry

:LCD TV M/N:LE55FHDF3300Z

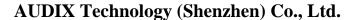
Power Rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

:HDMI 2:1920*1080@60Hz

No 	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.28782	0.15	9.98	25.89	36.02	60.59	24.57	QP
2	0.67187	0.16	9.97	23.62	33.75	56.00	22.25	QP
3	0.86643	0.17	9.98	24.05	34.20	56.00	21.80	QP
4	1.216	0.18	9.98	23.42	33.58	56.00	22.42	QP
5	1.970	0.20	9.97	25.40	35.57	56.00	20.43	QP
6	10.733	0.33	9.90	25.36	35.59	60.00	24.41	QP

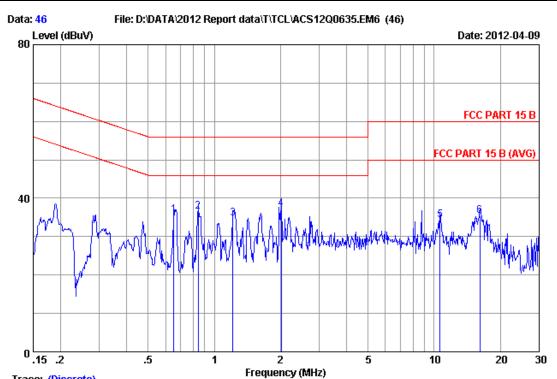
Remarks: 1. Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit) +Reading.





FCC ID: W8ULE55FHDF3300Z 3-12

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Trace: (Discrete)

:1#conduction Site no Data No

:** 2011 ESH2-Z5 NEUTRAL Dis./Ant.

:FCC PART 15 B Limit

Env./Ins. :25.5*C/55% Engineer :Jerry

:LCD TV M/N:LE55FHDF3300Z

Power Rating : AC 120V/60Hz

:Running "H" Pattern And 1KHz Playing Test Mode

:HDMI 2:1920*1080@60Hz

No 	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.65430	0.16	9.97	25.49	35.62	56.00	20.38	QP
2	0.84378	0.16	9.97	26.35	36.48	56.00	19.52	QP
3	1.216	0.18	9.98	24.63	34.79	56.00	21.21	QP
4	2.012	0.20	9.97	27.02	37.19	56.00	18.81	QP
5	10.620	0.29	9.90	24.13	34.32	60.00	25.68	QP
6	16.140	0.34	9.94	25.11	35.39	60.00	24.61	QP

Remarks: 1. Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit) +Reading.



4. RADIATED EMISSION TEST

4.1.Test Equipment

4.1.1.For frequency range 30MHz~1000MHz

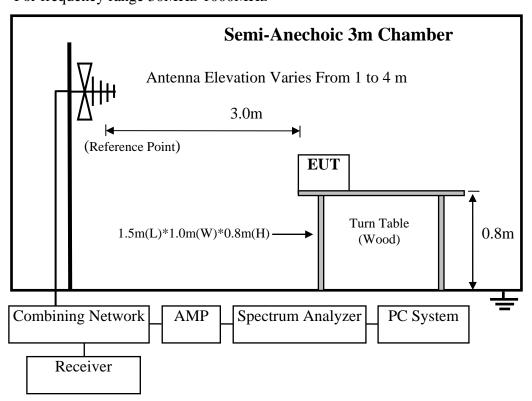
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Nov.28,11	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 11	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 11	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 11	1 Year
5	Bilog Antenna	Schaffner	CBL6111C	2598	Oct.26, 10	1.5 Year
6	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	Dec.06, 11	1/2Year
7	Coaxial Switch	Anritsu	MP59B	M74389	May.08, 11	1 Year

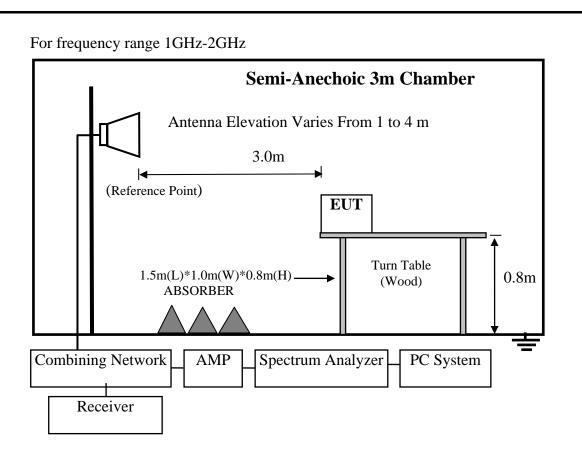
4.1.2.For frequency range 1GHz~2GHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
		Agilent	E4407B	MY41440292	May.08, 11	1 Year
1	Analyzer					
2	Horn Antenna	EMCO	3115	9607-4877	July.01, 11	1 Year
3	Amplifier	Agilent	8449B	3008A00863	May.08, 11	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX106	77980/6	Dec.06, 11	0.5Year
5	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	Dec.06, 11	0.5Year

4.2.Block Diagram of Test Setup

For frequency range 30MHz-1000MHz





4.3. Radiated Emission Limit

Frequency	Distance	Field Strengths Limits
MHz	(Meters)	dB(μV)/m
30 ~ 88	3	40.0
88 ~ 216	3	43.5
216 ~ 960	3	46.0
960 ~ 1000	3	54.0
Above 1000	3	74(Peak)54(Average)

Remark: (1) Emission level = Antenna Factor + Cable Loss + Reading Emission level = Antenna Factor - Amp Factor + Cable Loss + Reading (above 1000MHz)

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.4.EUT Configuration on Test

The configurations of EUT are listed in Section 3.4

4.5. Operating Condition of EUT

Same as Conducted Emission test that is listed in Section 3.5. except the test set up replaced by Section 4.2.



4.6.Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 3m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4: 2009 on Radiated Emission test.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz.

4.7. Radiated Disturbance Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

EUT: LCD TV Model No.: LE55FHDF3300Z

For frequency range 30MHz~1000MHz

The EUT with the following test modes were tested and selected to read Q.P values, all the test results are listed in next pages.

Test Date: Apr.07, 2012 Temperature: 24°C Humidity: 56%

The details of test modes are as follows:

No.	Test Mode	Input Port	Resolution &	Reference Te	st Data No.
110.	Test Mode	Input Fort	Frequency	Horizontal	Vertical
1.			640*480 @60Hz	#9	#10
2.		VGA	1024*768 @ 60Hz	#8	#7
3.	PC Mode		1920*1080@60Hz	#6	#5
4. 💥		HDMI 1	1920*1080@60Hz	#2	#1
5.		HDMI 2	1920*1080@60Hz	#3	#4

(* Worst test mode)



FCC ID: W8ULE55FHDF3300Z Page 4-4

For frequency range 1GHz~2GHz

The EUT with below test mode were measured within Anechoic Chamber and the test results listed in next pages

Note: For all the emissions above 1GHz, the peak measured level comply with peak limit, so the average level were deemed to comply with average limit.

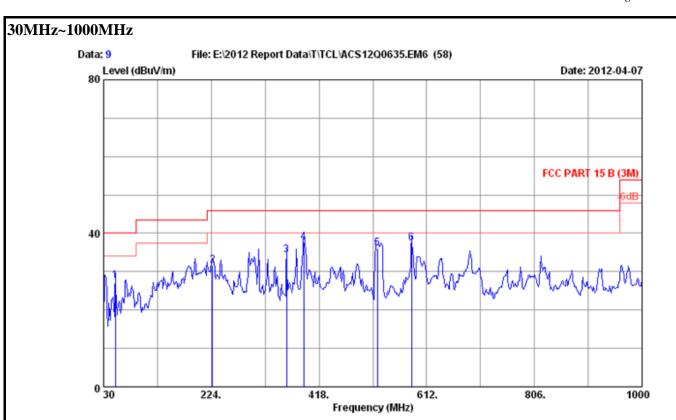
Test Date: Apr.07, 2012 Temperature: 24°C Humidity: 56%

NO.	D. Test Mode Re	Resolution & Frequency	Reference Test Data No.			
NO.	Test Mode	Resolution & Frequency	Horizontal	Vertical		
1.	VGA	1920*1080 @60Hz	#57, #58	#55, #56		
2.	HDMI 1	1920*1080 @60Hz	#53, #54	#51, #52		
3.	HDMI 2	1920*1080 @60Hz	#49, #50	#47, #48		



FCC ID: W8ULE55FHDF3300Z

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Site no. : 3m Chamber Data no. : 9

Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/56% Engineer : sun zeng

EUT : LCD TV M/N:LE55FHDF3300Z

Power rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

VGA:640*480@60Hz

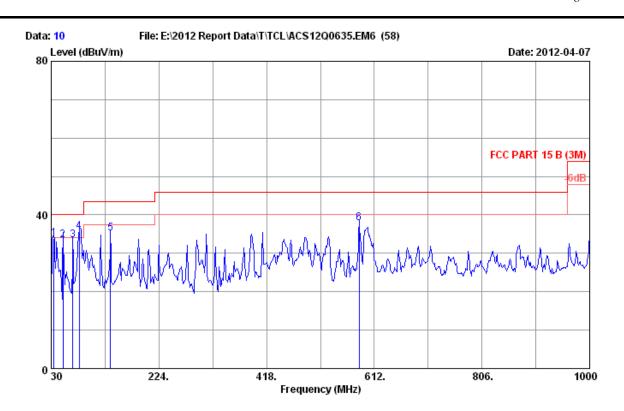
No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	51.340	8.86	0.36	18.34	27.56	40.00	12.44	QP
2	225.940	10.68	1.10	19.75	31.53	46.00	14.47	QP
3	359.800	15.60	1.50	17.25	34.35	46.00	11.65	QP
4	390.840	16.31	1.34	20.01	37.66	46.00	8.34	QP
5	522.760	18.37	1.60	16.22	36.19	46.00	9.81	QP
6	584.840	19.70	1.58	16.13	37.41	46.00	8.59	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



FCC ID: W8ULE55FHDF3300Z

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Site no. : 3m Chamber Data no. : 10
Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/56% Engineer : sun zeng

EUT : LCD TV M/N:LE55FHDF3300Z

Power rating : AC 120V/60Hz

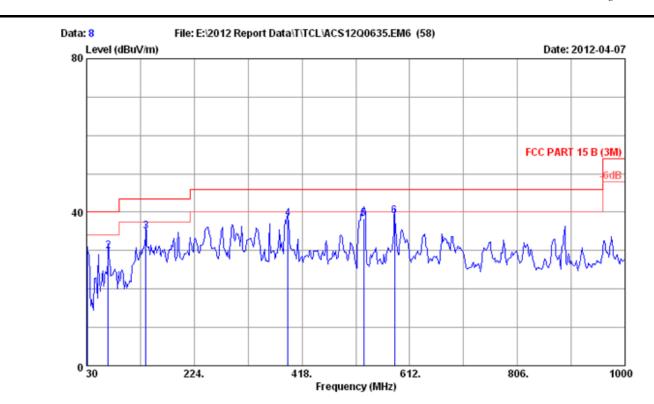
Test Mode : Running "H" Pattern And 1KHz Playing

VGA:640*480@60Hz

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	34.850	17.20	0.30	16.28	33.78	40.00	6.22	QP
2	51.340	8.86	0.36	24.29	33.51	40.00	6.49	QP
3	68.800	6.48	0.49	26.35	33.32	40.00	6.68	QP
4	80.440	7.80	0.60	27.24	35.64	40.00	4.36	QP
5	136.700	12.06	0.77	22.33	35.16	43.50	8.34	QP
6	584.840	19.70	1.58	16.58	37.86	46.00	8.14	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.





Site no. : 3m Chamber Data no. : 8

Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/56% Engineer : sun zeng

EUT : LCD TV M/N:LE55FHDF3300Z

Power rating : AC 120V/60Hz

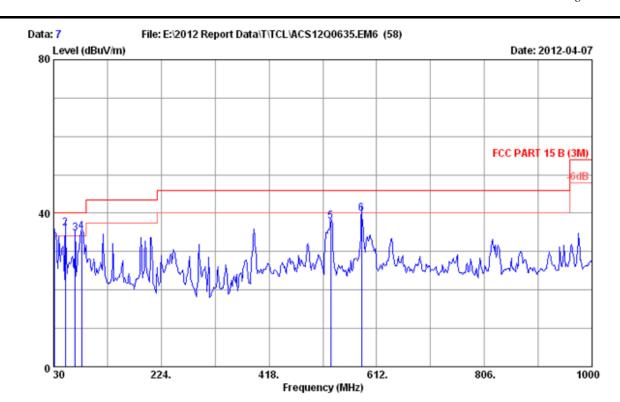
Test Mode : Running "H" Pattern And 1KHz Playing

VGA: 1024*768@60Hz

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.940	18.88	0.30	9.04	28.22	40.00	11.78	QP
2	68.800	6.48	0.49	22.84	29.81	40.00	10.19	QP
3	136.700	12.06	0.77	22.11	34.94	43.50	8.56	QP
4	392.780	16.33	1.33	20.70	38.36	46.00	7.64	QP
5	529.550	18.30	1.60	18.49	38.39	46.00	7.61	QP
6	584.840	19.70	1.58	17.83	39.11	46.00	6.89	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.





Site no. : 3m Chamber Data no. : 7

Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/56% Engineer : sun zeng

EUT : LCD TV M/N:LE55FHDF3300Z

Power rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

VGA: 1024*768@60Hz

No	. Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.940	18.88	0.30	13.98	33.16	40.00	6.84	QP
2	51.340	8.86	0.36	26.87	36.09	40.00	3.91	QP
3	68.800	6.48	0.49	27.78	34.75	40.00	5.25	QP
4	80.440	7.80	0.60	26.76	35.16	40.00	4.84	QP
5	529.550	18.30	1.60	17.95	37.85	46.00	8.15	QP
6	584.840	19.70	1.58	18.62	39.90	46.00	6.10	QP

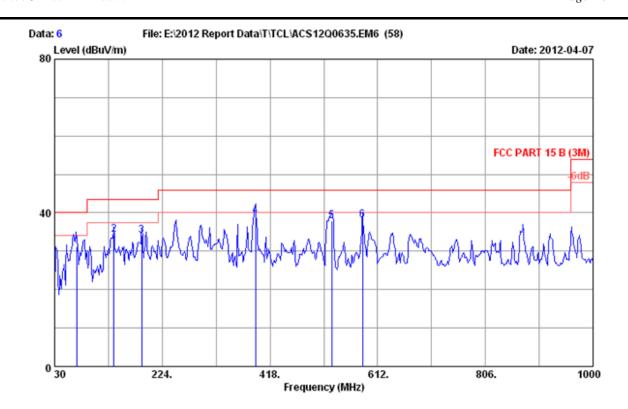
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

arks: 1. Lmission Level= Antenna Factor + Cable Loss + Reading.



FCC ID: W8ULE55FHDF3300Z

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Site no. : 3m Chamber Data no. : 6

Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/56% Engineer : sun zeng

EUT : LCD TV M/N:LE55FHDF3300Z

Power rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

VGA:1920*1080@60Hz

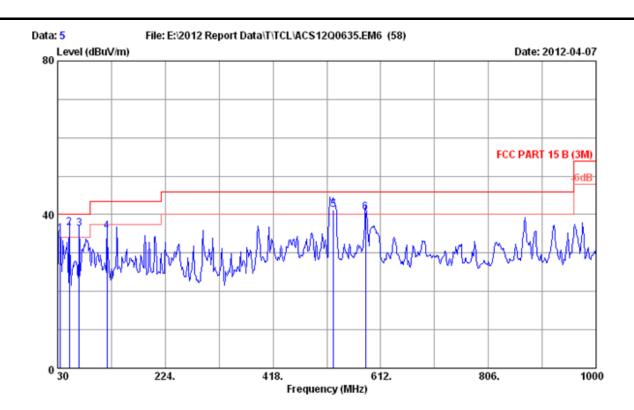
No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	70.740	6.74	0.50	23.87	31.11	40.00	8.89	QP
2	136.700	12.06	0.77	21.49	34.32	43.50	9.18	QP
3	187.140	9.34	0.96	23.75	34.05	43.50	9.45	QP
4	391.810	16.32	1.34	21.66	39.32	46.00	6.68	QP
5	529.550	18.30	1.60	17.92	37.82	46.00	8.18	QP
6	584.840	19.70	1.58	16.75	38.03	46.00	7.97	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

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



FCC ID: W8ULE55FHDF3300Z 4-10 Page



Site no. : 3m Chamber Data no. : 5

Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/56% Engineer : sun zeng

EUT : LCD TV M/N:LE55FHDF3300Z

Power rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

VGA:1920*1080@60Hz

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	34.850	17.20	0.30	17.46	34.96	40.00	5.04	QP
2	51.300	8.86	0.36	27.30	36.52	40.00	3.48	QP
3	68.800	6.48	0.49	29.31	36.28	40.00	3.72	QP
4	119.240	11.86	0.60	23.14	35.60	43.50	7.90	QP
5	526.640	18.33	1.60	21.32	41.25	46.00	4.75	QP
6	584.840	19.70	1.58	19.32	40.60	46.00	5.40	QP

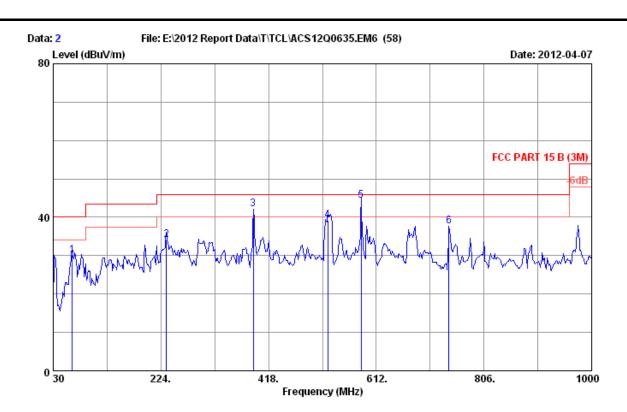
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

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



FCC ID: W8ULE55FHDF3300Z 4-11

Page



Site no. : 3m Chamber Data no. : 2

Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/56% Engineer : sun zeng

EUT : LCD TV M/N:LE55FHDF3300Z

Power rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

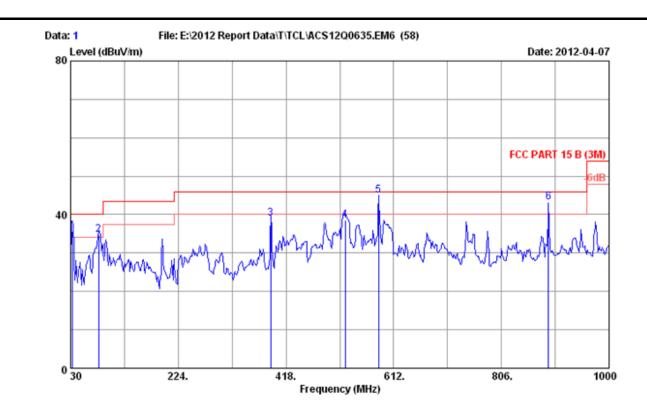
HDMI 1:1920*1080@60Hz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	63.950	6.00	0.44	23.57	30.01	40.00	9.99	QP
2	233.700	11.24	1.10	21.81	34.15	46.00	11.85	QP
3	390.840	16.31	1.34	24.50	42.15	46.00	3.85	QP
4	524.700	18.35	1.60	19.21	39.16	46.00	6.84	QP
5	585.000	19.70	1.58	23.00	44.28	46.00	1.72	QP
6	742.950	21.86	1.93	13.93	37.72	46.00	8.28	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



Page



Site no. : 3m Chamber Data no. : 1

Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/56% Engineer : sun zeng

EUT : LCD TV M/N:LE55FHDF3300Z

Power rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

HDMI 1:1920*1080@60Hz

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	33.070	18.32	0.30	17.00	35.62	40.00	4.38	QP
2	80.440	7.80	0.60	26.42	34.82	40.00	5.18	QP
3	390.840	16.31	1.34	21.24	38.89	46.00	7.11	QP
4	524.700	18.35	1.60	18.50	38.45	46.00	7.55	QP
5	584.990	19.70	1.58	23.70	44.98	46.00	1.02	QP
6	891.000	22.89	2.24	18.00	43.13	46.00	2.87	QP

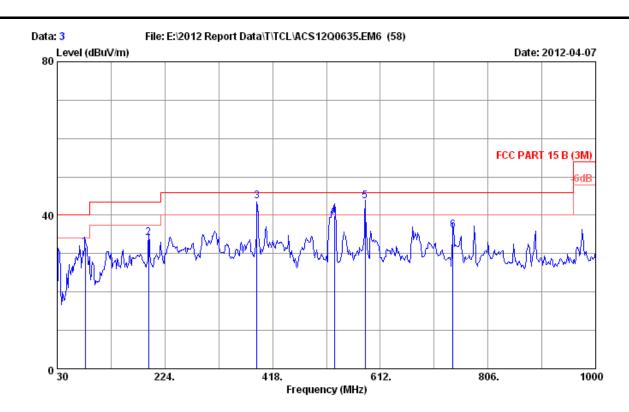
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

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



FCC ID: W8ULE55FHDF3300Z 4-13

Page



Site no. : 3m Chamber Data no. : 3

Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/56% Engineer : sun zeng

EUT : LCD TV M/N:LE55FHDF3300Z

Power rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

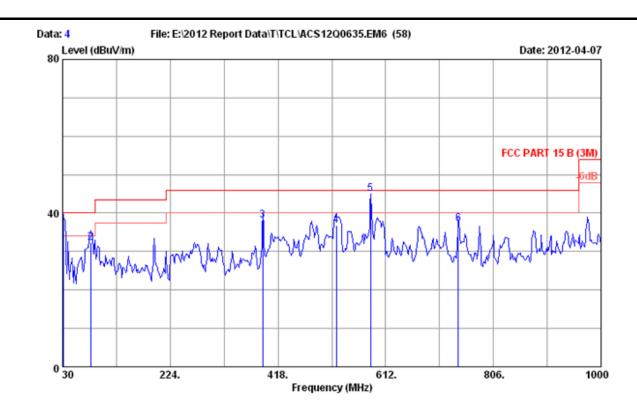
HDMI 2:1920*1080@60Hz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	80.440	7.80	0.60	23.14	31.54	40.00	8.46	QP
2	194.900	9.70	0.92	23.57	34.19	43.50	9.31	QP
3	390.000	16.30	1.35	26.00	43.65	46.00	2.35	QP
4	529.550	18.30	1.60	20.05	39.95	46.00	6.05	QP
5	585.000	19.70	1.58	22.50	43.78	46.00	2.22	QP
6	742.950	21.86	1.93	12.29	36.08	46.00	9.92	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



Page



Site no. : 3m Chamber Data no. : 4

Dis. / Ant. : 3m 2010 CBL6111C 2598 Ant. pol. : VERTICAL

Limit : FCC PART 15 B (3M)

Env. / Ins. : 24*C/56% Engineer : sun zeng

EUT : LCD TV M/N:LE55FHDF3300Z

Power rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

HDMI 2:1920*1080@60Hz

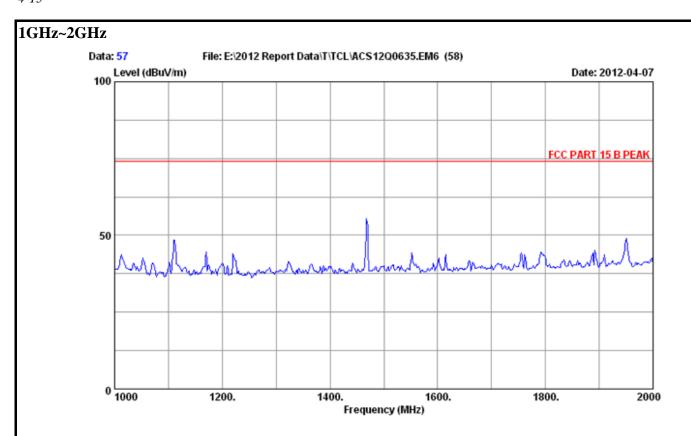
_	No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
	1	31.940	18.88	0.30	17.85	37.03	40.00	2.97	QP
	2	80.440	7.80	0.60	23.99	32.39	40.00	7.61	QP
	3	390.840	16.31	1.34	20.52	38.17	46.00	7.83	QP
	4	522.760	18.37	1.60	16.82	36.79	46.00	9.21	QP
	5	585.000	19.70	1.58	23.68	44.96	46.00	1.04	QP
	6	742.950	21.86	1.93	13.50	37.29	46.00	8.71	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.



FCC ID: W8ULE55FHDF3300Z 4-15

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Site no. : 3m Chamber Data no. : 57

Dis. / Ant. : 3m 2011 3115 9510-4580 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24*C/56% Engineer : sun zeng

EUT : LCD TV M/N:LE55FHDF3300Z

Power Rating : AC 120V/60Hz

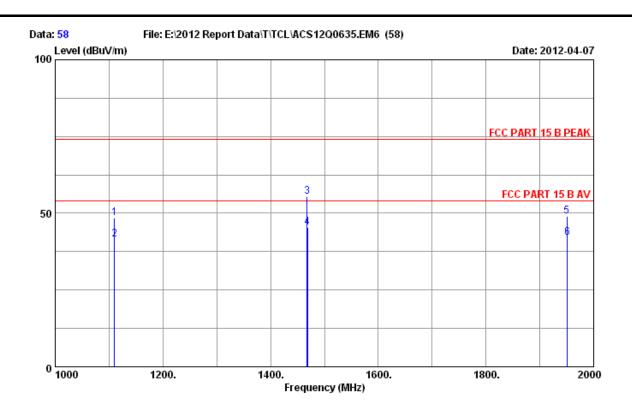
Test Mode : Running "H" Pattern And 1KHz Playing

VGA:1920*1080@60Hz



FCC ID: W8ULE55FHDF3300Z 4-16

Page



Site no. : 3m Chamber Data no. : 58

Dis. / Ant. : 3m 2011 3115 9510-4580 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24*C/56% Engineer : sun zeng

EUT : LCD TV M/N:LE55FHDF3300Z

Power Rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

VGA:1920*1080@60Hz

		Ant.	Cable	AMP		Emission			
No.	Freq. (MHz)	Factor (dB/m)	Loss (dB)	factor (dBuV)	Reading (dBuV/m)	Level (dBuV/m)	Limits (dB)	Margin (dB)	Remark
	1110.000	24.11	0.74	35.32	59.05	48.58	74.00	25.42	Peak
Τ.	1110.000	24.11	0.74	33.34	39.03	40.50	74.00	23.72	reak
2	1110.400	24.11	0.74	35.32	52.04	41.57	54.00	12.43	Average
3	1468.000	25.25	1.25	35.02	63.98	55.46	74.00	18.54	Peak
4	1468.290	25.25	1.25	35.02	53.83	45.31	54.00	8.69	Average
5	1950.000	27.19	1.99	34.64	54.54	49.08	74.00	24.92	Peak
6	1951.150	27.19	1.99	34.64	47.44	41.98	54.00	12.02	Average

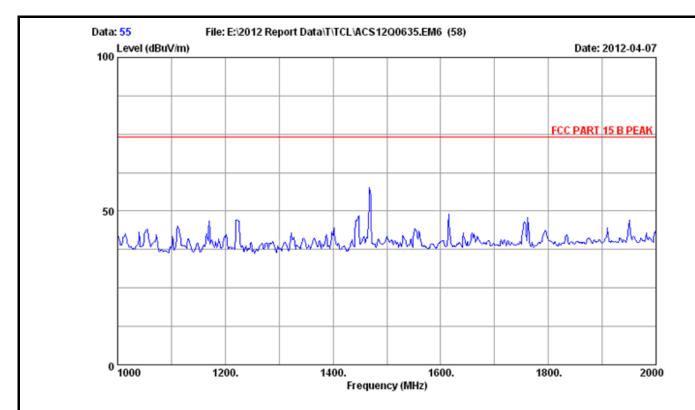
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading

-Amp Factor



FCC ID: W8ULE55FHDF3300Z 4-17

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Site no. : 3m Chamber Data no. : 55
Dis. / Ant. : 3m 2011 3115 9510-4580 Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

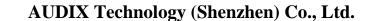
Env. / Ins. : 24*C/56% Engineer : sun zeng

EUT : LCD TV M/N:LE55FHDF3300Z

Power Rating : AC 120V/60Hz

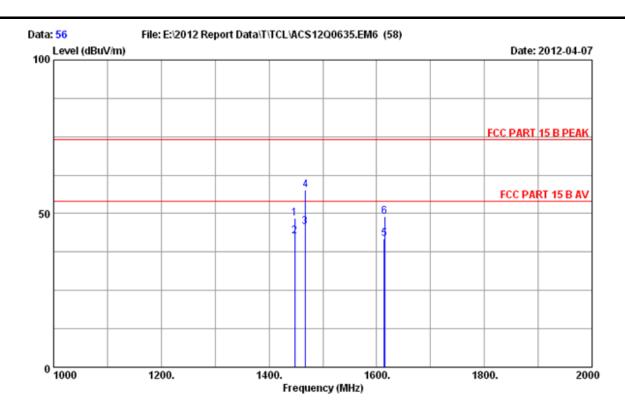
Test Mode : Running "H" Pattern And 1KHz Playing

VGA:1920*1080@60Hz





Page



Site no. : 3m Chamber Data no. : 56
Dis. / Ant. : 3m 2011 3115 9510-4580 Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24*C/56% Engineer : sun zeng

EUT : LCD TV M/N:LE55FHDF3300Z

Power Rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

VGA: 1920*1080@60Hz

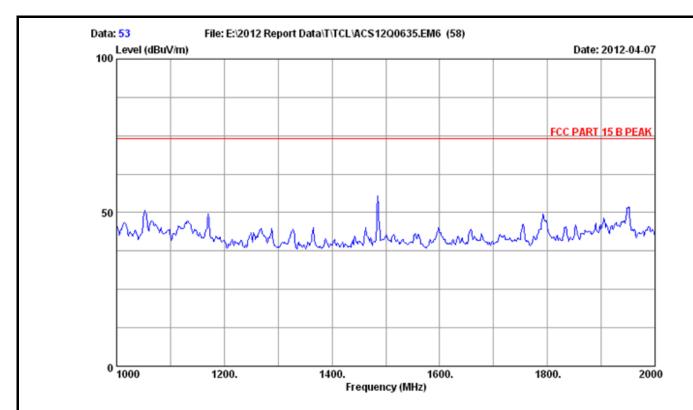
		Ant.	Cable	AMP		Emission			
No.	Freq.	Factor	Loss	factor	Reading (dBuV/m)	Level (dBuV/m)	Limits	_	Remark
	(MHz)	(dB/m)	(dB)	(dBuV)	(abuv/m)	(abuv/m)	(dB)	(dB)	
1	1448.000	25.14	1.22	35.04	57.19	48.51	74.00	25.49	Peak
2	1448.290	25.14	1.22	35.04	51.16	42.48	54.00	11.52	Average
3	1467.360	25.20	1.25	35.02	54.16	45.59	54.00	8.41	Average
4	1468.000	25.25	1.25	35.02	66.27	57.75	74.00	16.25	Peak
5	1614.250	25.79	1.48	34.90	49.43	41.80	54.00	12.20	Average
6	1615.000	25.79	1.48	34.90	56.55	48.92	74.00	25.08	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor



FCC ID: W8ULE55FHDF3300Z 4-19

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Site no. : 3m Chamber Data no. : 53

Dis. / Ant. : 3m 2011 3115 9510-4580 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B PEAK

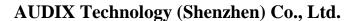
Env. / Ins. : 24*C/56% Engineer : sun zeng

EUT : LCD TV M/N:LE55FHDF3300Z

Power Rating : AC 120V/60Hz

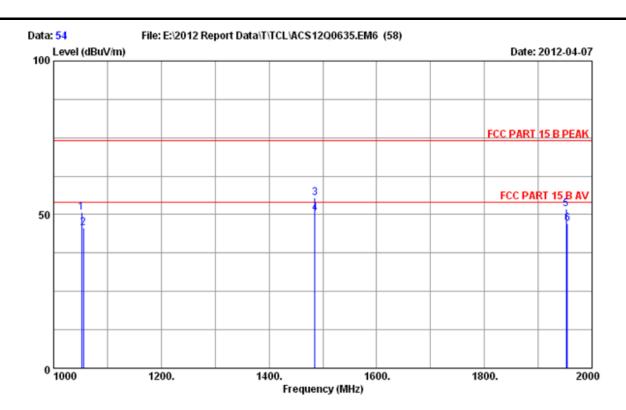
Test Mode : Running "H" Pattern And 1KHz Playing

HDMI 1:1920*1080@60Hz





Page



Site no. : 3m Chamber Data no. : 54

Dis. / Ant. : 3m 2011 3115 9510-4580 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24*C/56% Engineer : sun zeng

EUT : LCD TV M/N:LE55FHDF3300Z

Power Rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

HDMI 1:1920*1080@60Hz

No.	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dBuV)	Reading (dBuV/m)	Emission Level (dBuV/m)	Limits (dB)	Margin (dB)	Remark
1 2	1052.000 1055.240	23.96	0.65	35.36 35.36	61.48 56.36	50.73 45.61	74.00 54.00	23.27 8.39	Peak Average
3	1485.000	25.30	1.28	35.02	63.75	55.31	74.00	18.69	Peak
4	1485.200	25.30	1.28	35.02	58.82	50.38	54.00	3.62	Average
5	1952.000	27.19	1.99	34.64	57.29	51.83	74.00	22.17	Peak
6	1954.600	27.19	1.99	34.64	52.43	46.97	54.00	7.03	Average

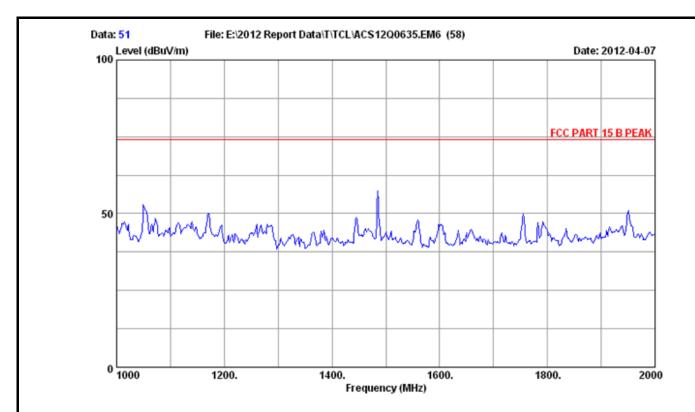
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading

-Amp Factor



FCC ID: W8ULE55FHDF3300Z 4-21

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Site no. : 3m Chamber Data no. : 51
Dis. / Ant. : 3m 2011 3115 9510-4580 Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

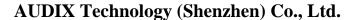
Env. / Ins. : 24*C/56% Engineer : sun zeng

EUT : LCD TV M/N:LE55FHDF3300Z

Power Rating : AC 120V/60Hz

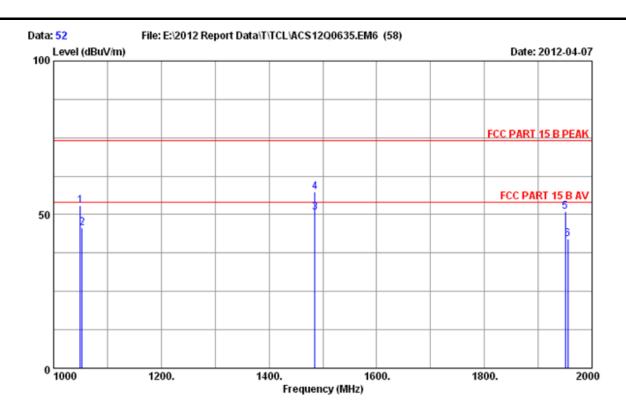
Test Mode : Running "H" Pattern And 1KHz Playing

HDMI 1:1920*1080@60Hz





Page



Site no. : 3m Chamber Data no. : 52
Dis. / Ant. : 3m 2011 3115 9510-4580 Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24*C/56% Engineer : sun zeng

EUT : LCD TV M/N:LE55FHDF3300Z

Power Rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

HDMI 1:1920*1080@60Hz

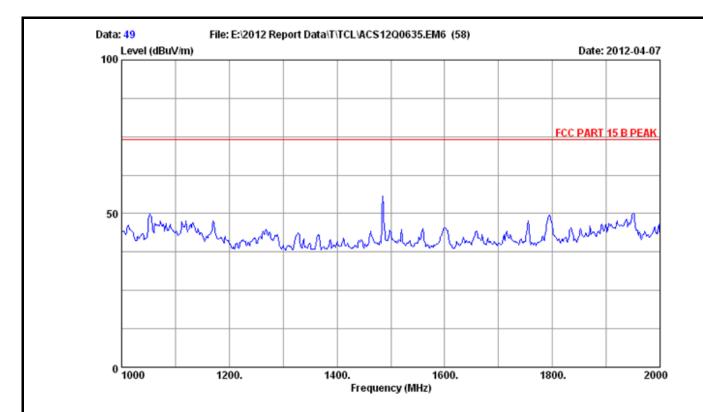
		Ant.	Cable	AMP		Emission			
No.	Freq. (MHz)	Factor (dB/m)	Loss (dB)	factor (dBuV)	Reading (dBuV/m)	Level (dBuV/m)	Limits (dB)	Margin (dB)	Remark
1	1050.000	23.96	0.65	35.36	63.72	52.97	74.00	21.03	Peak
2	1052.600	23.96	0.65	35.36	56.48	45.73	54.00	8.27	Average
3	1485.000	25.30	1.28	35.02	59.01	50.57	54.00	3.43	Average
4	1485.000	25.30	1.28	35.02	65.75	57.31	74.00	16.69	Peak
5	1950.000	27.19	1.99	34.64	56.38	50.92	74.00	23.08	Peak
6	1954.800	27.19	1.99	34.64	47.39	41.93	54.00	12.07	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor



FCC ID: W8ULE55FHDF3300Z 4-23

Page



Site no. : 3m Chamber Data no. : 49

Dis. / Ant. : 3m 2011 3115 9510-4580 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24*C/56% Engineer : sun zeng

EUT : LCD TV M/N:LE55FHDF3300Z

Power Rating : AC 120V/60Hz

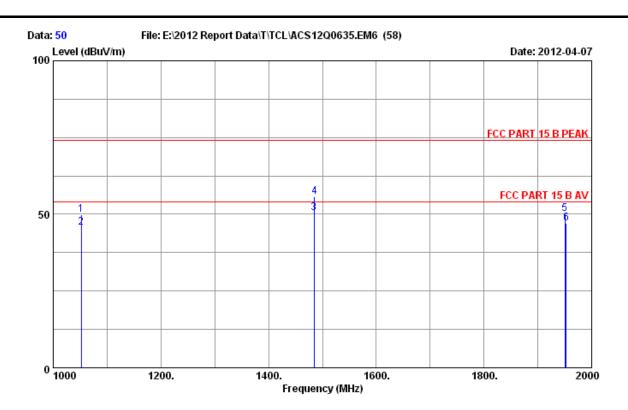
Test Mode : Running "H" Pattern And 1KHz Playing

HDMI 2:1920*1080@60Hz



FCC ID: W8ULE55FHDF3300Z 4-24

Page



Site no. : 3m Chamber Data no. : 50

Dis. / Ant. : 3m 2011 3115 9510-4580 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24*C/56% Engineer : sun zeng

EUT : LCD TV M/N:LE55FHDF3300Z

Power Rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

HDMI 2:1920*1080@60Hz

		Ant.	Cable	AMP		Emission			
No.	Freq. (MHz)	Factor (dB/m)	Loss (dB)	factor (dBuV)	Reading (dBuV/m)	Level (dBuV/m)	Limits (dB)	Margin (dB)	Remark
1	1052.000	23.96	0.65	35.36	60.51	49.76	74.00	24.24	Peak
2	1052.160	23.96	0.65	35.36	56.47	45.72	54.00	8.28	Average
3	1484.850	25.30	1.28	35.02	58.85	50.41	54.00	3.59	Average
4	1485.000	25.30	1.28	35.02	64.16	55.72	74.00	18.28	Peak
5	1950.000	27.19	1.99	34.64	55.68	50.22	74.00	23.78	Peak
6	1952.340	27.19	1.99	34.64	52.48	47.02	54.00	6.98	Average

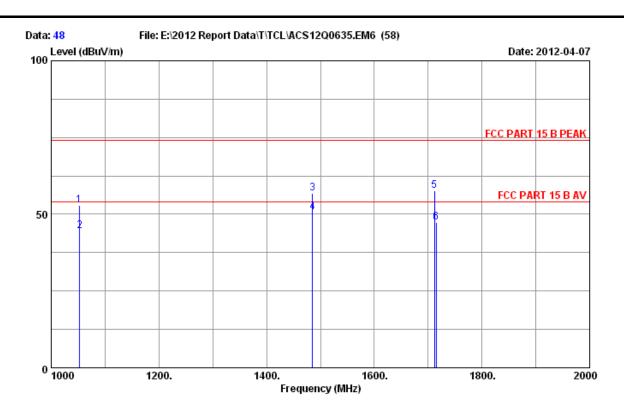
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading

-Amp Factor



FCC ID: W8ULE55FHDF3300Z 4-25

Page



Site no. : 3m Chamber Data no. : 48
Dis. / Ant. : 3m 2011 3115 9510-4580 Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

Env. / Ins. : 24*C/56% Engineer : sun zeng

EUT : LCD TV M/N:LE55FHDF3300Z

Power Rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

HDMI 2:1920*1080@60Hz

		Ant.	Cable	AMP		Emission			
No.	Freq. (MHz)	Factor (dB/m)	Loss (dB)	factor (dBuV)	Reading (dBuV/m)	Level (dBuV/m)	Limits (dB)	Margin (dB)	Remark
1	1052.000	23.96	0.65	35.36	63.70	52.95	74.00	21.05	Peak
2	1053.050	23.96	0.65	35.36	55.21	44.46	54.00	9.54	Average
3	1485.000	25.30	1.28	35.02	65.38	56.94	74.00	17.06	Peak
4	1485.100	25.30	1.28	35.02	59.12	50.68	54.00	3.32	Average
5	1712.000	26.21	1.63	34.84	64.79	57.79	74.00	16.21	Peak
6	1714.700	26.21	1.63	34.82	54.21	47.23	54.00	6.77	Average

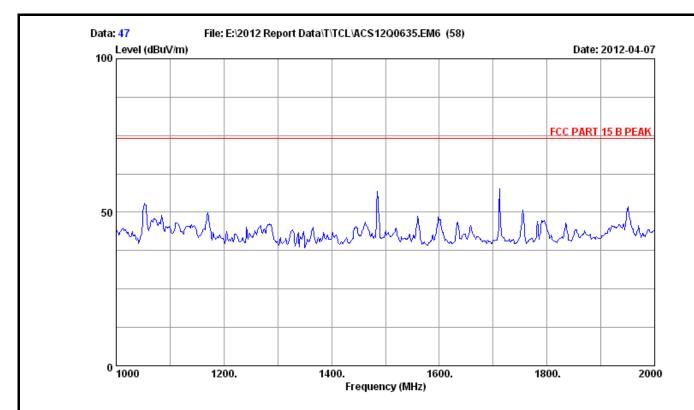
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading

-Amp Factor



FCC ID: W8ULE55FHDF3300Z 4-26

Page



Site no. : 3m Chamber Data no. : 47
Dis. / Ant. : 3m 2011 3115 9510-4580 Ant. pol. : VERTICAL

Limit : FCC PART 15 B PEAK

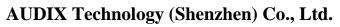
Env. / Ins. : 24*C/56% Engineer : sun zeng

EUT : LCD TV M/N:LE55FHDF3300Z

Power Rating : AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

HDMI 2:1920*1080@60Hz





Page 5-1

5. DEVIATION TO TEST SPECIFICATIONS [NONE]