Application for FCC Certificate On Behalf of Hisense Electric Co., Ltd.

LCD TV

Model No.	Serial No.	Brand
LTDN42V85GUS	E2009060905	Hisense
NX4203S120		NEXUS

FCC ID: W9HLCDD0001

Prepared For: Hisense Electric Co., Ltd.

No.218 Qianwangang Road, Economy & Technology

Development Zone, Qingdao, China

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

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Report No.: ACI-F09055 Date of Test: Jun 11 – 17, 2009 Date of Report: Jun 23, 2009

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TEST REPORT FOR FCC CERTIFICATE

Applicant : Hisense Electric Co., Ltd.

Manufacturer : Hisense Electric Co., Ltd.

EUT Description : LCD TV

(A) Model No.	LTDN42V85GUS	NX4203S120	
(B) Serial No.	E2009060905	-	
(C) Brand	Hisense	NEXUS	
(D) Power Supply	120V/60Hz		

Test Procedure Used:

FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B OCTOBER 2008 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) 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: Refer to Sec.2.1; S/N: Refer to Sec.2.1) which was tested in 3m anechoic chamber Jun 11 – 17, 2009 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.

The test results for EUT's TV function are contained in No.F09054, a Verification report.

Date of Test:	Jun 11 - 17, 2009	Date of Report :	Jun 23, 2009
Producer:	Alan He ALAN/Assistant	_	• •
Review:	BYRON WU / Supervisor	_	

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

Authorized Signature EMCSAMMY CHEN / Assistant 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 2008 AND ANSI C63.4-2003	15.107(a) Class B	Pass
Radiated Disturbance	FCC RULES AND REGULATIONS PART 15 SUBPART B OCTOBER 2008 AND ANSI C63.4-2003	15.109(a) Class B	Pass

GENERAL INFORMATION

2.1 Description of Equipment Under Test

LCD TV Description

Type of EUT ✓ Production ☐ Pre-product ☐ Pro-type

Model No.

Serial No.

E2009060905

Hisense **NEXUS** Brand

The above models are all the same except for the Note 1

LTDN42V85GUS

different model number and brand.

Note 2 The LTDN42V85GUS was tested and recorded in

this report.

Applicant Hisense Electric Co., Ltd.

No.218 Qianwangang Road, Economy &

Technology Development Zone, Qingdao, China

NX4203S120

Manufacturer Hisense Electric Co., Ltd.

No.218 Qianwangang Road, Economy &

Technology Development Zone, Qingdao, China

LCD Panel Manufacturer: Chi Mei optoelectronics Corp.

> M/N : V420H1-LH5

Tuner Manufacturer: XuGuang Tech Co., Ltd.

> : DTV-8ADC1/W41F2\ROH M/N

Max Resolution 1920*1080@60Hz

D-Sub Cable Shielded, Detachable, 1.85m,

with two cores on cable

HDMI Cable Shielded, Detachable, 1.85m,

without core on cable

Power Cord Unshielded, Detachable, 1.80m

Remark:

(14)

(15)

One Coaxial Port

One HDMI3 Port

	T is a LCD TV which input/output	ports as follows:
Rear \		
(1)	One HDMI1 Port	
		Connected with DVD #1/PC
(2)	One HDMI2 Port	
(=)		Connected with DVD #2/PC
(3)	One VGA Port	
()		Connected with PC
(4)	One VGA Audio In Port	Connected with 1 C
(4)	One VGA Audio in Port	
		Connected with PC
(5)	One component of YPbPr1 Port	
()	1	Connected with DVD #1
(6)	One component of YPbPr1 Audio	
(6)	One component of Front Audio	
		Connected with DVD #1
(7)	One component of YPbPr2 Port	
	-	Connected with DVD #2
(8)	One component of YPbPr2 Audio	
(0)	One component of 11 of 12 / tudio	
		Connected with DVD #2
(9)	One component of Audio Port	
		Connected with Speaker
Side I	Port.	1
(10)	One component of AV Port	G
		Connected with DVD #1
(11)	One S-Video Port	
. ,		Connected with TV SG/ATSC SG
(12)	One Fernhama Port	connected with 1 v bon 11 be bo
(12)	One Earphone Port	G + 1 14 F 1
		Connected with Earphone
(13)	One RF Port Port	
		Connected with TV SG/ATSC SG

Connected with TV

Connected with PC

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 Printer

Manufacturer : HP Model Number : C3990A Serial Number : JPZX020487

Data Cable : Shielded, detachable, 1.5m Certificate : GS, CE/EMC, C-Tick, FCC DoC

2.2.3 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

2.2.4 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

2.2.5 Modem

Manufacturer : TP-LINK
Model Number : TM-EC5658V
Serial Number : 07123301053

Data Cable : Shielded, Detachable, 1.8m Certificate : FCC DoC, CE/EMC, CCC

2.2.6 Earphone

Manufacturer : SONY
Model Number : MDR-E808

Serial Number: 1808030805305506

2.2.7 TV Signal Generator

Manufacturer : FLUKE Model Number : 54200m01 Serial Number : 814008

Data Cable : Shielded, detachable, 2.0m Power Cord : Unshielded, detachable, 2.0m Certificate : CE/EMC, FCC DoC, CCC

2.2.8 ATSC Signal Generator

Manufacturer : SENCORE Model Number : ATSC997 Serial Number : 6790071

2.2.9 DVD#1

Manufacturer : PHILIPS
Model Number : DVP3986K/93
Serial Number : KX1A0902120108

Certificate : FCC DoC, CE/EMC, CCC

2.2.10 DVD#2

Manufacturer : PHILIPS
Model Number : DVP3986K/93
Serial Number : KX1A0902120082

Certificate : FCC DoC, CE/EMC, CCC

2.2.11 DVD#3

Manufacturer : DGT Model Number : DV-A340 Serial Number : 10004184-C

Certificate : FCC DoC, CE/EMC, CCC

2.2.12 Speaker

Manufacturer : DIBA Model Number : T520 Serial Number : 10628

2.3 Description of Test Facility

Site Description : Sept. 17, 1998 file on (Semi-Anechoic Chamber) : Apr 29, 2009 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 = 1.26 dBRadiated Emission Expanded Uncertainty : U = 3.02 dB

3 CONDUCTED EMISSION TEST

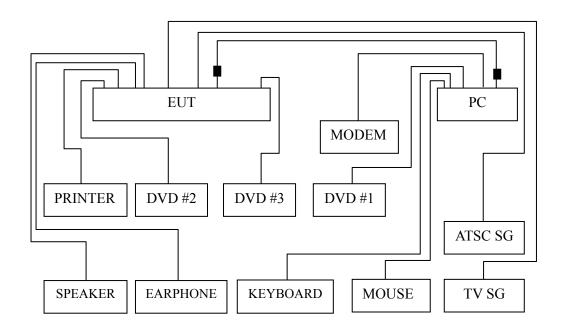
3.1.1 Test Equipment

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	Nov 21, 2008	Nov 21, 2009
2.	Artificial Mains Network (AMN)	R&S	ESH2-Z5	843890/011	Apr 02, 2009	Apr 02, 2010
3.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-4	Apr 02, 2009	Apr 02, 2010
4.	50 Ω Coaxial Switch	Anritsu	MP59B	6200426389	Mar 19, 2009	Sep 19, 2009
5.	50Ω Terminator	Anritsu	BNC	001	Apr 02, 2009	Apr 02, 2010
6.	Software	Audix	E3	SET00200 9804M592	-1	

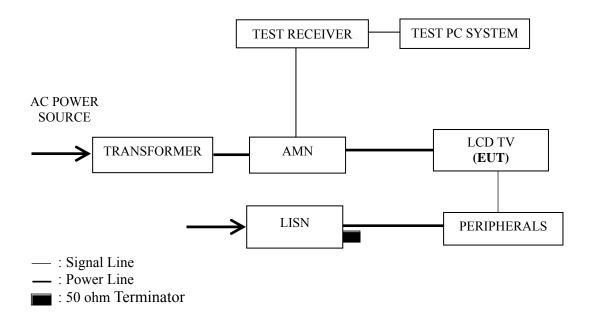
3.2 Block Diagram of Test Setup

3.2.1 EUT & Peripherals



: Ferrite core

3.2.2 Conducted Disturbance Test Setup



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

Frequency Range	Limits dB (μV)		
(MHz)	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 $0.15~\text{MHz}{\sim}0.50~\text{MHz}$

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, the EUT's screen displayed and filled with "H" pattern by its resolution (Via D-Sub & HDMI 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 640*480@60Hz
D-Sub 1024*768@60Hz
D-Sub 1680*1050@60Hz
D-Sub 1920*1080@60Hz
HDMI 640*480@60Hz
HDMI 1024*768@60Hz
HDMI 1680*1050@60Hz
HDMI 1920*1080@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 640*480@60Hz	P13
D-Sub 1024*768@60Hz	P14
D-Sub 1680*1050@60Hz	P15
D-Sub 1920*1080@60Hz	P16
HDMI 640*480@60Hz	P17
HDMI 1024*768@60Hz	P18
HDMI 1680*1050@60Hz	P19
HDMI 1920*1080@60Hz	P20

NOTE 1 - Factor = Cable Loss + AMN Factor.

NOTE 2 – Emission Level = Meter Reading + Factor.

NOTE 3 – "QP" means "Quasi-Peak" values, "AV" means "Average" values.

NOTE 4 – The worst case is for D-Sub 1024*768@60Hz test mode. The worst emission is detected at 13.695 MHz (Quasi-Peak value) with corrected signal level of 49.26 dB (μ V) (limit is 60.00 dB (μ V)), when the Neutral of the EUT is connected to AMN.

Model No. : LTDN42V85GUS Humidity : 48%RH

Serial No. : <u>E2009060905</u> Date of Test : <u>Jun 11, 2009</u>

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
	0.150	42.03	0.23	42.26	66.00	23.74	
	0.192	31.08	0.22	31.30	63.93	32.63	
	1.269	16.26	0.32	16.58	56.00	39.42	OD
	3.720	25.66	0.42	26.08	56.00	29.92	QP
	13.841	46.86	0.67	47.53	60.00	12.47	
Line	25.321	41.83	0.80	42.63	60.00	17.37	
Line	0.150	32.68	0.23	32.91	56.00	23.09	
	0.192	21.75	0.22	21.97	53.93	31.96	AV
	1.269	6.84	0.32	7.16	46.00	38.84	
	3.720	15.97	0.42	16.39	46.00	29.61	
	13.841	36.52	0.67	37.19	50.00	12.81	
	25.321	31.26	0.80	32.06	50.00	17.94	
	0.150	40.51	0.20	40.71	66.00	25.29	
	0.192	31.88	0.20	32.08	63.93	31.85	OD
	1.236	16.70	0.32	17.02	56.00	38.98	
	3.681	26.30	0.43	26.73	56.00	29.27	QP
	13.841	44.77	0.64	45.41	60.00	14.59	
Neutral	24.790	40.20	0.74	40.94	60.00	19.06	
Neutrai	0.150	30.36	0.20	30.56	56.00	25.44	
	0.192	21.84	0.20	22.04	53.93	31.89	AV
	1.236	6.25	0.32	6.57	46.00	39.43	
	3.681	16.53	0.43	16.96	46.00	29.04	
	13.841	34.85	0.64	35.49	50.00	14.51	
	24.790	30.74	0.74	31.48	50.00	18.52	

Model No. : LTDN42V85GUS Humidity : 48%RH

Serial No. : E2009060905 Date of Test : Jun 11, 2009

Test Mode : D-Sub 1024*768@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark
	0.150	43.47	0.23	43.70	66.00	22.30	
	0.192	30.06	0.22	30.28	63.93	33.65	
	1.236	15.32	0.32	15.64	56.00	40.36	OD
	3.720	25.91	0.42	26.33	56.00	29.67	QP
	13.989	46.62	0.67	47.29	60.00	12.71	
Line	24.790	40.38	0.81	41.19	60.00	18.81	
Line	0.150	33.64	0.23	33.87	56.00	22.13	
	0.192	20.37	0.22	20.59	53.93	33.34	AV
	1.236	5.26	0.32	5.58	46.00	40.42	
	3.720	15.84	0.42	16.26	46.00	29.74	
	13.989	36.64	0.67	37.31	50.00	12.69	
	24.790	30.35	0.81	31.16	50.00	18.84	
	0.150	42.62	0.20	42.82	66.00	23.18	
	0.192	30.82	0.20	31.02	63.93	32.91	OD
	1.262	17.55	0.32	17.87	56.00	38.13	
	3.642	25.68	0.43	26.11	56.00	29.89	QP
	13.695	48.62	0.64	49.26	60.00	10.74	
Neutral	22.298	39.26	0.80	40.06	60.00	19.94	
Neutrai	0.150	32.14	0.20	32.34	56.00	23.66	
	0.192	20.35	0.20	20.55	53.93	33.38	AV
	1.262	8.04	0.32	8.36	46.00	37.64	
	3.642	15.63	0.43	16.06	46.00	29.94	
	13.695	38.48	0.64	39.12	50.00	10.88	
	22.298	29.80	0.80	30.60	50.00	19.40	

Model No. : LTDN42V85GUS Humidity : 48%RH

Serial No. : E2009060905 Date of Test : Jun 11, 2009

Test Mode : D-Sub 1680*1050@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark
	0.150	43.34	0.23	43.57	66.00	22.43	
	0.192	30.96	0.22	31.18	63.93	32.75	
	1.262	16.48	0.32	16.80	56.00	39.20	OD
	3.720	27.01	0.42	27.43	56.00	28.57	QP
	14.063	45.81	0.68	46.49	60.00	13.51	
Line	24.529	41.08	0.81	41.89	60.00	18.11	
Line	0.150	33.15	0.23	33.38	56.00	22.62	
	0.192	20.34	0.22	20.56	53.93	33.37	
	1.262	6.28	0.32	6.60	46.00	39.40	AV
	3.720	18.03	0.42	18.45	46.00	27.55	AV
	14.063	35.91	0.68	36.59	50.00	13.41	
	24.529	31.48	0.81	32.29	50.00	17.71	
	0.150	40.82	0.20	41.02	66.00	24.98	
	0.192	31.96	0.20	32.16	63.93	31.77	
	0.974	14.96	0.30	15.26	56.00	40.74	OD
	3.642	25.84	0.43	26.27	56.00	29.73	QP
	13.551	46.86	0.64	47.50	60.00	12.50	
Neutral	25.864	38.15	0.75	38.90	60.00	21.10	
Neunai	0.150	30.48	0.20	30.68	56.00	25.32	
	0.192	21.58	0.20	21.78	53.93	32.15	
	0.974	4.15	0.30	4.45	46.00	41.55	AXI
	3.642	15.04	0.43	15.47	46.00	30.53	AV
	13.551	36.93	0.64	37.57	50.00	12.43	
	25.864	28.94	0.75	29.69	50.00	20.31	

Model No. : LTDN42V85GUS Humidity : 48%RH

Serial No. : E2009060905 Date of Test : Jun 11, 2009

Test Mode : D-Sub 1920*1080@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark
	0.150	44.36	0.23	44.59	66.00	21.41	
	0.192	32.07	0.22	32.29	63.93	31.64	
	1.249	14.64	0.32	14.96	56.00	41.04	OD
	3.720	25.92	0.42	26.34	56.00	29.66	QP
	13.695	45.87	0.66	46.53	60.00	13.47	
Line	25.591	40.93	0.81	41.74	60.00	18.26	
Line	0.150	34.15	0.23	34.38	56.00	21.62	
	0.192	22.35	0.22	22.57	53.93	31.36	
	1.249	4.28	0.32	4.60	46.00	41.40	AV
	3.720	15.68	0.42	16.10	46.00	29.90	Av
	13.695	35.84	0.66	36.50	50.00	13.50	
	25.591	30.25	0.81	31.06	50.00	18.94	
	0.150	42.56	0.20	42.76	66.00	23.24	
	0.192	32.29	0.20	32.49	63.93	31.44	
	1.324	15.71	0.32	16.03	56.00	39.97	QP
	3.720	24.88	0.43	25.31	56.00	30.69	Qr
	13.695	45.79	0.64	46.43	60.00	13.57	
Neutral	22.896	39.33	0.78	40.11	60.00	19.89	
Neuman	0.150	32.41	0.20	32.61	56.00	23.39	
	0.192	22.68	0.20	22.88	53.93	31.05	
	1.324	5.85	0.32	6.17	46.00	39.83	AV
	3.720	14.82	0.43	15.25	46.00	30.75	AV
	13.695	35.96	0.64	36.60	50.00	13.40	
	22.896	29.48	0.78	30.26	50.00	19.74	

Model No. : LTDN42V85GUS Humidity : 48%RH

Serial No. : <u>E2009060905</u> Date of Test : <u>Jun 11, 2009</u>

Test Mode : HDMI 640*480@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark
	0.192	32.05	0.22	32.27	63.93	31.66	
	0.253	21.19	0.24	21.43	61.64	40.21	
	1.282	16.67	0.32	16.99	56.00	39.01	OD
	3.603	27.84	0.42	28.26	56.00	27.74	QP
	13.841	33.61	0.67	34.28	60.00	25.72	
Line	23.888	40.74	0.82	41.56	60.00	18.44	
Line	0.192	22.58	0.22	22.80	53.93	31.13	
	0.253	11.48	0.24	11.72	51.64	39.92	AV
	1.282	6.80	0.32	7.12	46.00	38.88	
	3.603	18.18	0.42	18.60	46.00	27.40	
	13.841	23.10	0.67	23.77	50.00	26.23	
	23.888	30.43	0.82	31.25	50.00	18.75	
	0.192	32.94	0.20	33.14	63.93	30.79	
	0.253	21.86	0.22	22.08	61.64	39.56	
	1.269	16.06	0.32	16.38	56.00	39.62	OD
	3.799	29.57	0.43	30.00	56.00	26.00	QP
	14.063	38.57	0.65	39.22	60.00	20.78	
Neutral	22.063	45.04	0.81	45.85	60.00	14.15	
Neutrai	0.192	22.64	0.20	22.84	53.93	31.09	
	0.253	11.16	0.22	11.38	51.64	40.26	
	1.269	6.48	0.32	6.80	46.00	39.20	A X 7
	3.799		19.86	46.00	26.14	AV	
	14.063	28.56		20.79			
	22.063	35.45	0.81	36.26	50.00	13.74	

Model No. : LTDN42V85GUS Humidity : 48%RH

Serial No. : E2009060905 Date of Test : Jun 11, 2009

Test Mode : HDMI 1024*768@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark
	0.150	45.60	0.23	45.83	66.00	20.17	
	0.192	32.19	0.22	32.41	63.93	31.52	
	1.210	16.47	0.32	16.79	56.00	39.21	OD
	3.799	28.92	0.42	29.34	56.00	26.66	QP
	16.661	39.96	0.77	40.73	60.00	19.27	
Line	22.063	43.13	0.85	43.98	60.00	16.02	
Line	0.150	35.92	0.23	36.15	56.00	19.85	
	0.192	22.64	0.22	22.86	53.93	31.07	
	1.210	6.85	0.32	7.17	46.00	38.83	AV
	3.799	18.42	0.42	18.84	46.00	27.16	AV
	16.661	29.85	0.77	30.62	50.00	19.38	
	22.063	33.50	0.85	34.35	50.00	15.65	
	0.150	40.32	0.20	40.52	66.00	25.48	
	0.192	32.00	0.20	32.20	63.93	31.73	
	2.066	14.31	0.36	14.67	56.00	41.33	QP
	3.720	27.64	0.43	28.07	56.00	27.93	Qr
	13.841	36.84	0.64	37.48	60.00	22.52	
Neutral	22.063	42.49	0.81	43.30	60.00	16.70	
Neuman	0.150	30.15	0.20	30.35	56.00	25.65	
	0.192	21.48	0.20	21.68	53.93	32.25	
	2.066	4.84	0.36	5.20	46.00	40.80	AV
	3.720	17.88	0.43	18.31	46.00	27.69	
	13.841	26.24	0.64	26.88	50.00	23.12	
	22.063	32.63	0.81	33.44	50.00	16.56	

Model No. : LTDN42V85GUS Humidity : 48%RH

Serial No. : E2009060905 Date of Test : Jun 11, 2009

Test Mode : HDMI 1680*1050@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark
	0.150	41.89	0.23	42.12	66.00	23.88	
	0.192	32.02	0.22	32.24	63.93	31.69	
	1.269	17.16	0.32	17.48	56.00	38.52	OD
	3.642	26.95	0.42	27.37	56.00	28.63	QP
	13.989	36.10	0.67	36.77	60.00	23.23	
Line	22.298	46.14	0.85	46.99	60.00	13.01	
Line	0.150	31.54	0.23	31.77	56.00	24.23	
	0.192	22.41	0.22	22.63	53.93	31.30	
	1.269	7.18	0.32	7.50	46.00	38.50	AV
	3.642	16.55	0.42	16.97	46.00	29.03	AV
	13.989	26.58	0.67	27.25	50.00	22.75	
	22.298	36.60	0.85	37.45	50.00	12.55	
	0.150	40.98	0.20	41.18	66.00	24.82	
	0.192	31.96	0.20	32.16	63.93	31.77	
	1.210	15.14	0.32	15.46	56.00	40.54	ΩD
	3.642	26.53	0.43	26.96	56.00	29.04	QP
	13.841	38.17	0.64	38.81	60.00	21.19	
Neutral	22.063	44.27	0.81	45.08	60.00	14.92	
Neutrai	0.150	30.35	0.20	30.55	56.00	25.45	
	0.192	21.48	0.20	21.68	53.93	32.25	
	1.210	5.48	0.32	5.80	46.00	40.20	AV
	3.642	16.57	0.43	17.00	46.00	29.00	
	13.841	28.95	0.64	29.59	50.00	20.41	
	22.063	34.12	0.81	34.93	50.00	15.07	

Model No. : LTDN42V85GUS Humidity : 48%RH

Serial No. : E2009060905 Date of Test : Jun 11, 2009

Test Mode : HDMI 1920*1080@60Hz

Test Line	Frequency (MHz)	Meter Reading dB(μV)	Factor (dB)	Emission Level dB(µV)	Limits dB(µV)	Margin (dB)	Remark
	0.150	44.37	0.23	44.60	66.00	21.40	
	0.192	31.29	0.22	31.51	63.93	32.42	
	1.262	16.55	0.32	16.87	56.00	39.13	OD
	3.759	27.93	0.42	28.35	56.00	27.65	QP
	16.226	38.81	0.75	39.56	60.00	20.44	
Line	22.063	45.23	0.85	46.08	60.00	13.92	
Line	0.150	34.28	0.23	34.51	56.00	21.49	
	0.192	21.45	0.22	21.67	53.93	32.26	
	1.262	6.81	0.32	7.13	46.00	38.87	AV
	3.759	17.84	0.42	18.26	46.00	27.74	AV
	16.226	28.16	0.75	28.91	50.00	21.09	
	22.063	34.25	0.85	35.10	50.00	14.90	
	0.150	43.46	0.20	43.66	66.00	22.34	
	0.190	30.64	0.20	30.84	64.02	33.18	
	1.282	16.51	0.32	16.83	56.00	39.17	OD
	3.759	28.40	0.43	28.83	56.00	27.17	QP
	16.398	40.73	0.73	41.46	60.00	18.54	
Neutral	22.063	42.56	0.81	43.37	60.00	16.63	
Neutrai	0.150	33.40	0.20	33.60	56.00	22.40	
	0.190	20.37	0.20	20.57	54.02	33.45	
	1.282	6.00	0.32	6.32	46.00	39.68	43.7
	3.759	18.47	0.43	18.90	46.00	27.10	AV
	16.398	30.35	0.73	31.08	50.00	18.92	
	22.063	32.64	0.81	33.45	50.00	16.55	

4 RADIATED EMISSION TEST

4.1 Test Equipment

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

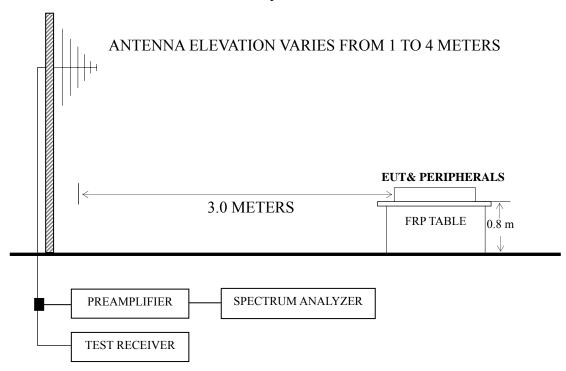
Item	Туре	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESVS10	844594/001	Mar 07, 2009	Mar 07, 2010
2.	Preamplifier	Agilent	8447D	2944A10548	Mar 19, 2009	Sep 19, 2009
3.	Preamplifier	HP	8449B	3008A00864	May 19, 2009	May 19, 2010
4.	Bi-log Antenna	TESEQ	CBL6112D	23193	May 14, 2008	May 14, 2010
5.	Spectrum	Agilent	E7405A	MY45106600	May 19, 2009	May 19, 2010
6.	Software	Audix	Е3	SET00200 9912M295-2		

4.2 Block Diagram of Test Setup

4.2.1 EUT and Peripherals

Same as Sec.3.2.1

4.2.2 Radiated emission test setup



: 50 ohm Coaxial Switch

Frequency	Distance	Field stren	ngth limits
(MHz)	(m)	(µV/m)	dB (μV/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 (μ V/m) = 20 log Emission Level (μ 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.
- NOTE 5 Above 1 GHz, the limit on peak emission is 20 dB above the maximum permitted average emission limit applicable to the EUT

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 bandwidth of Test Receiver R&S ESVS10 was set at 120 kHz below 1GHz and The Spectrum Agilent E7405A was set at 1MHz above 1GHz.

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

The frequency range from 1 GHz to 2 GHz was checked for D-Sub/HDMI 1680*1050@60Hz and 1920*1080@60Hz mode.

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 640*480@60Hz	P24
D-Sub 1024*768@60Hz	P25
D-Sub 1680*1050@60Hz	P26
D-Sub 1920*1080@60Hz	P27
HDMI 640*480@60Hz	P28
HDMI 1024*768@60Hz	P29
HDMI 1680*1050@60Hz	P30
HDMI 1920*1080@60Hz	P31

- NOTE 1 Emission Level = Antenna Factor + Cable Loss + Meter Reading. (< 1GHz)
- NOTE 2 Emission Level = Antenna Factor + Cable Loss Preamp Factor + Meter Reading.(> 1GHz)
- NOTE 3 The emission levels that are 20dB below the official limit are not reported.
- NOTE $4 0^{\circ}$ was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.
- NOTE 5 All reading are Quasi-Peak values below or equal to 1GHz and Peak values above 1GHz. For measurements above 1 GHz, the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
- NOTE 6 The worst case is for D-Sub 1024*768@60Hz test mode. The worst emission at horizontal polarization was detected at 812.790 MHz with corrected signal level of 37.50 dB ($\mu V/m$) (limit is 46.00dB ($\mu V/m$)), when the antenna was 2.00 m height and the turntable was at 145°. The worst emission at vertical polarization was detected at 87.230 MHz with corrected signal level of 36.92 dB ($\mu V/m$) (limit is 40.00 dB ($\mu V/m$)), when the antenna was 2.00 m height and the turntable was at 30°.

Model No. : LTDN42V85GUS Humidity : 60%RH

Serial No. : E2009060905 Date of Test : Jun 17, 2009

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)
	30.970	11.88	19.03	0.63	31.54	40.00	8.46
	54.250	15.59	7.92	0.74	24.25	40.00	15.75
Horizontal	118.270	16.54	12.91	1.14	30.59	43.50	12.91
Попідопіаї	279.290	20.80	13.52	1.80	36.12	46.00	9.88
	519.850	20.62	18.15	2.49	41.26	46.00	4.74
	813.760	17.13	20.84	3.24	41.21	46.00	4.79
	41.640	15.30	13.02	0.67	28.99	40.00	11.01
	112.450	17.56	12.51	1.12	31.19	43.50	12.31
Vertical	279.290	20.37	13.52	1.80	35.69	46.00	10.31
vertical	421.880	19.83	16.79	2.26	38.88	46.00	7.12
	608.120	19.09	19.25	2.76	41.10	46.00	4.90
	842.860	18.37	21.12	3.32	42.81	46.00	3.19

EUT : LCD TV Temperature : 22°C

Model No. : LTDN42V85GUS Humidity : 60%RH

Serial No. : E2009060905 Date of Test : Jun 17, 2009

Test Mode : <u>D-Sub1024*768@60Hz</u>

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)
	47.460	18.14	10.09	0.69	28.92	40.00	11.08
	107.600	19.56	12.10	1.10	32.76	43.50	10.74
Horizontal	237.580	21.19	12.44	1.67	35.30	46.00	10.70
Пописний	389.870	18.72	16.30	2.18	37.20	46.00	8.80
	544.100	16.22	18.49	2.58	37.29	46.00	8.71
	812.790	13.42	20.84	3.24	37.50	46.00	8.50
	42.610	18.79	12.39	0.68	31.86	40.00	8.14
	87.230	26.96	8.96	1.00	36.92	40.00	3.08
Vertical	279.290	19.51	13.52	1.80	34.83	46.00	11.17
vertical	407.330	20.53	16.59	2.22	39.34	46.00	6.66
	519.850	21.00	18.15	2.49	41.64	46.00	4.36
	812.790	15.52	20.84	3.24	39.60	46.00	6.40

Model No. : LTDN42V85GUS Humidity : 60%RH

Serial No. : E2009060905 Date of Test : Jun 17, 2009

Test Mode : D-Sub 1680*1050@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (μV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
	51.340	19.53	8.61	0.71		28.85	40.00	11.15	
	107.600	20.75	12.10	1.10		33.95	43.50	9.55	
	237.580	21.76	12.44	1.67		35.87	46.00	10.13	OD
	279.290	19.85	13.52	1.80		35.17	46.00	10.83	QP
	519.850	20.71	18.15	2.49		41.35	46.00	4.65	
Horizontal	812.790	16.93	20.84	3.24		41.01	46.00	4.99	
Horizontai	1012.000	58.60	24.16	3.88	37.67	48.97	74.00	25.03	PK
	1167.000	53.96	24.68	4.16	37.25	45.55	74.00	28.45	
	1215.000	52.58	24.86	4.24	37.14	44.54	74.00	29.46	
	1327.000	51.94	25.24	4.42	36.89	44.71	74.00	29.29	
	1549.000	51.37	26.15	4.81	36.44	45.89	74.00	28.11	
	1823.000	52.81	27.23	5.21	35.97	49.28	74.00	24.72	
	43.580	17.97	11.88	0.68		30.53	40.00	9.47	
	87.230	22.81	8.96	1.00		32.77	40.00	7.23	
	279.290	19.67	13.52	1.80		34.99	46.00	11.01	OD
	407.330	18.48	16.59	2.22		37.29	46.00	8.71	QP
	519.850	17.89	18.15	2.49		38.53	46.00	7.47	
Vantical	842.860	16.77	21.12	3.32		41.21	46.00	4.79	
Vertical	1023.000	52.83	24.16	3.88	37.63	43.24	74.00	30.76	
	1208.000	49.45	24.80	4.21	37.15	41.31	74.00	32.69	PK
	1316.000	49.98	25.24	4.42	36.90	42.74	74.00	31.26	
	1511.000	48.40	26.00	4.74	36.51	42.63	74.00	31.37	
	1632.000	48.05	26.50	4.99	36.28	43.26	74.00	30.74	
	1823.000	49.58	27.23	5.21	35.97	46.05	74.00	27.95	

Model No. : LTDN42V85GUS Humidity : 60%RH

Serial No. : E2009060905 Date of Test : Jun 17, 2009

Test Mode : D-Sub 1920*1080@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
	87.230	22.80	8.96	1.00		32.76	40.00	7.24	
	107.600	21.77	12.10	1.10		34.97	43.50	8.53	
	237.580	20.71	12.44	1.67		34.82	46.00	11.18	OD
	279.290	19.35	13.52	1.80		34.67	46.00	11.33	QP
	519.850	15.56	18.15	2.49		36.20	46.00	9.80	
Horizontal	813.760	14.68	20.84	3.24		38.76	46.00	7.24	
поптан	1064.000	57.86	24.33	3.99	37.52	48.66	74.00	25.34	
	1180.000	51.57	24.74	4.18	37.22	43.27	74.00	30.73	PK
	1384.000	58.25	25.51	4.54	36.76	51.54	74.00	22.46	
	1569.000	51.47	26.22	4.85	36.40	46.14	74.00	27.86	
	1697.000	51.18	26.78	5.11	36.17	46.90	74.00	27.10	
	1823.000	51.53	27.23	5.21	35.97	48.00	74.00	26.00	
	36.790	14.13	15.80	0.66		30.59	40.00	9.41	
	87.230	23.31	8.96	1.00		33.27	40.00	6.73	OD
	279.290	19.50	13.52	1.80		34.82	46.00	11.18	
	389.870	18.23	16.30	2.18		36.71	46.00	9.29	QP
	519.850	19.17	18.15	2.49	I	39.81	46.00	6.19	
Vertical	842.860	17.58	21.12	3.32	•	42.02	46.00	3.98	
vertical	1020.000	56.03	24.16	3.88	37.64	46.43	74.00	27.57	
	1056.000	55.91	24.27	3.96	37.54	46.60	74.00	27.40	PK
	1167.000	52.88	24.68	4.16	37.25	44.47	74.00	29.53	
	1359.000	51.23	25.38	4.48	36.82	44.27	74.00	29.73	
	1530.000	50.03	26.07	4.78	36.47	44.41	74.00	29.59	
	1823.000	44.55	27.23	5.21	35.97	41.02	74.00	32.98	

Model No. : LTDN42V85GUS Humidity : 60%RH

Serial No. : E2009060905 Date of Test : Jun 17, 2009

Test Mode : HDMI 640*480@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)		Emission Level dB (µV/m)	Limits dB ($\mu V/m$)	Margin (dB)
	87.230	23.36	8.96	1.00	33.32	40.00	6.68
	107.600	21.36	12.10	1.10	34.56	43.50	8.94
Horizontal	237.580	19.96	12.44	1.67	34.07	46.00	11.93
поптенца	279.290	19.71	13.52	1.80	35.03	46.00	10.97
	519.850	20.10	18.15	2.49	40.74	46.00	5.26
	842.860	14.96	21.12	3.32	39.40	46.00	6.60
	87.230	24.43	8.96	1.00	34.39	40.00	5.61
	202.660	19.90	10.81	1.55	32.26	43.50	11.24
Vertical	279.290	19.36	13.52	1.80	34.68	46.00	11.32
	389.870	18.27	16.30	2.18	36.75	46.00	9.25
	519.850	17.94	18.15	2.49	38.58	46.00	7.42
	738.100	13.95	20.10	3.04	37.09	46.00	8.91

EUT : LCD TV Temperature : 22°C

Model No. : LTDN42V85GUS Humidity : 60%RH

Serial No. : E2009060905 Date of Test : Jun 17, 2009

Test Mode : <u>HDMI 1024*768@60Hz</u>

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)
	87.230	22.91	8.96	1.00	32.87	40.00	7.13
	107.600	20.93	12.10	1.10	34.13	43.50	9.37
Horizontal	279.290	19.91	13.52	1.80	35.23	46.00	10.77
Попідопіаї	389.870	17.47	16.30	2.18	35.95	46.00	10.05
	519.850	20.16	18.15	2.49	40.80	46.00	5.20
	833.160	11.85	21.01	3.29	36.15	46.00	9.85
	87.230	21.66	8.96	1.00	31.62	40.00	8.38
	166.770	17.88	10.31	1.34	29.53	43.50	13.97
Vertical	279.290	19.21	13.52	1.80	34.53	46.00	11.47
	411.210	14.94	16.64	2.23	33.81	46.00	12.19
	738.100	13.25	20.10	3.04	36.39	46.00	9.61
	842.860	16.66	21.12	3.32	41.10	46.00	4.90

Model No. : LTDN42V85GUS Humidity : 60%RH

Serial No. : E2009060905 Date of Test : Jun 17, 2009

Test Mode : <u>HDMI 1680*1050@60Hz</u>

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
	30.970	12.50	19.03	0.63		32.16	40.00	7.84	
	87.230	23.58	8.96	1.00		33.54	40.00	6.46	
	107.600	20.34	12.10	1.10	1	33.54	43.50	9.96	ΩD
	279.290	19.53	13.52	1.80	1	34.85	46.00	11.15	QP
	519.850	19.72	18.15	2.49	-	40.36	46.00	5.64	
Horizontal	812.790	17.67	20.84	3.24		41.75	46.00	4.25	
Horizontai	1063.000	59.25	24.33	3.99	37.53	50.04	74.00	23.96	
	1200.000	52.46	24.80	4.21	37.17	44.30	74.00	29.70	PK
	1386.000	57.11	25.51	4.54	36.76	50.40	74.00	23.60	
	1549.000	53.75	26.15	4.81	36.44	48.27	74.00	25.73	
	1697.000	50.65	26.78	5.11	36.17	46.37	74.00	27.63	
	1823.000	52.71	27.23	5.21	35.97	49.18	74.00	24.82	
	42.610	17.29	12.39	0.68		30.36	40.00	9.64	
	87.230	23.13	8.96	1.00	-	33.09	40.00	6.91	OD
	279.290	19.02	13.52	1.80		34.34	46.00	11.66	
	407.330	20.07	16.59	2.22		38.88	46.00	7.12	QP
	519.850	17.70	18.15	2.49	1	38.34	46.00	7.66	
Vertical	842.860	17.29	21.12	3.32	1	41.73	46.00	4.27	
vertical	1007.000	57.39	24.10	3.84	37.68	47.65	74.00	26.35	
	1082.000	59.51	24.38	4.02	37.47	50.44	74.00	23.56	PK
	1348.000	50.57	25.31	4.45	36.83	43.50	74.00	30.50	
	1549.000	54.91	26.15	4.81	36.44	49.43	74.00	24.57	
	1675.000	50.39	26.71	5.08	36.21	45.97	74.00	28.03	
	1823.000	50.56	27.23	5.21	35.97	47.03	74.00	26.97	

Model No. : LTDN42V85GUS Humidity : 60%RH

Serial No. : E2009060905 Date of Test : Jun 17, 2009

Test Mode : HDMI 1920*1080@60Hz

Polarization	Frequency (MHz)	Meter Reading dB (µV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Emission Level dB (µV/m)	Limits dB (µV/m)	Margin (dB)	Remark
	87.230	23.53	8.96	1.00		33.49	40.00	6.51	
	107.600	22.01	12.10	1.10		35.21	43.50	8.29	
	237.580	19.93	12.44	1.67		34.04	46.00	11.96	OD
	389.870	14.43	16.30	2.18		32.91	46.00	13.09	QP
	519.850	18.84	18.15	2.49		39.48	46.00	6.52	
Horizontal	813.760	16.61	20.84	3.24		40.69	46.00	5.31	
Horizontai	1063.000	59.25	24.33	3.99	37.53	50.04	74.00	23.96	
	1200.000	52.46	24.80	4.21	37.17	44.30	74.00	29.70	PK
	1386.000	57.11	25.51	4.54	36.76	50.40	74.00	23.60	
	1549.000	53.75	26.15	4.81	36.44	48.27	74.00	25.73	
	1697.000	50.65	26.78	5.11	36.17	46.37	74.00	27.63	
	1823.000	52.71	27.23	5.21	35.97	49.18	74.00	24.82	
	42.610	17.46	12.39	0.68		30.53	40.00	9.47	
	87.230	23.08	8.96	1.00		33.04	40.00	6.96	
	279.290	19.50	13.52	1.80		34.82	46.00	11.18	OD
	421.880	18.33	16.79	2.26		37.38	46.00	8.62	QP
	519.850	19.65	18.15	2.49		40.29	46.00	5.71	
Vartical	842.860	16.89	21.12	3.32		41.33	46.00	4.67	
Vertical	1020.000	59.03	24.16	3.88	37.64	49.43	74.00	24.57	PK
	1057.000	57.44	24.27	3.96	37.54	48.13	74.00	25.87	
	1166.000	49.65	24.68	4.16	37.26	41.23	74.00	32.77	
	1328.000	48.41	25.24	4.42	36.88	41.19	74.00	32.81	
	1530.000	46.71	26.07	4.78	36.47	41.09	74.00	32.91	
	1700.000	49.85	26.78	5.11	36.17	45.57	74.00	28.43	

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5 DEVIATION TO TEST SPECIFICATIONS

None.

6 DEBUG DESCRIPTION

The following components are used during the countermeasure procedures:

Name	M/N	Specifications (mm)	Manufacturer	Location
Ferrite Core	ZCAT3035-1330	30*35*13	ROH	See Internal Photo Figure 19
Ferrite Core	ZCAT1519-0830	15*19*08	ROH	See Internal Photo Figure 18, 20
Ferrite Core	ZCAT2132-1130	21*32*11	ROH	See Internal Photo Figure 20, 21, 22
Aluminum foil	DBA40X100	40*100	ROH	See Internal Photo Figure 16, 17, 18

Note: We had required the applicant and manufacturer that all electrical and mechanical devices employed for spurious radiation suppression, including any modifications made during certification testing, must be incorporated in each unit marked

TEST ENGINEER: Loven . Sin

(RAVEN JIN)