

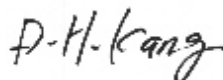


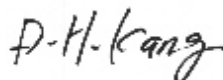


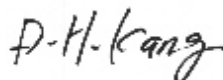



**SK TECH CO., LTD.**

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FCC-Certificate of Compliance

Test Report No.:	SKTFCE-060626-054																		
NVLAP CODE :	200220-0																		
Applicant:	Triview Co., Ltd																		
Applicant Address:	Eunsol B/D, Suite 102, Nonhyun-dong, 123-8, Kangnam-gu, SEOUL, KOREA																		
Manufacturer :	Triview Co., Ltd																		
Manufacturer Address:	Eunsol B/D, Suite 102, Nonhyun-dong, 123-8, Kangnam-gu, SEOUL, KOREA																		
Product:	TFT LCD TV																		
FCC ID:	UBZTRV-42FHB	Model No.:	TRV-42FHB																
Receipt No.:	SKTEU06-0285	Date of receipt:	May. 18, 2006																
Date of Issue:	Jun. 26, 2006																		
Testing location:	SK TECH CO., LTD. 820-2, Wolmoon-Ri, Wabu-Up, Namyangju-Si, Kyunggi-Do, Korea																		
Test Standards:	ANSI C63.4 / 2003																		
Rule Parts:	FCC part 15 Subpart B, CISPR 22																		
Equipment Class :	Class B Personal Computer & Peripherals																		
Other Aspects :	This Class B Digital apparatus complies with Canadian IECS-003																		
Test Result:	The above mentioned product has been tested and passed.																		
<table border="0"> <tr> <td>Prepared by: S.Y.Ye</td> <td>Tested by: S.H.Yoon/Engineer</td> <td colspan="2">Approved by: D.H.Kang /Manager& Chief Engineer</td> </tr> <tr> <td></td> <td></td> <td colspan="2"></td> </tr> <tr> <td>_____ Signature</td> <td>_____ Signature</td> <td>_____ Signature</td> <td>_____ Signature</td> </tr> <tr> <td>_____ Date</td> <td>_____ Date</td> <td>_____ Date</td> <td>_____ Date</td> </tr> </table>				Prepared by: S.Y.Ye	Tested by: S.H.Yoon/Engineer	Approved by: D.H.Kang /Manager& Chief Engineer						_____ Signature	_____ Signature	_____ Signature	_____ Signature	_____ Date	_____ Date	_____ Date	_____ Date
Prepared by: S.Y.Ye	Tested by: S.H.Yoon/Engineer	Approved by: D.H.Kang /Manager& Chief Engineer																	
																			
_____ Signature	_____ Signature	_____ Signature	_____ Signature																
_____ Date	_____ Date	_____ Date	_____ Date																
Other Aspects :																			
Abbreviations :	· OK, Pass = passed · Fail = failed · N/A = not applicable																		
<p>☛ •This test report is not permitted to copy partly without our permission.</p> <p>•This test result is dependent on only equipment to be used.</p> <p>•This test result is based on a single evaluation of one sample of the above mentioned.</p> <p>•This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S Government.</p> <p>• We certify that this test report has been based on the measurement standards that is traceable to the national or International standards.</p>																			
<div style="text-align: right;">  NVLAP Lab. Code: 200220-0 </div>																			



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1. General

This equipment has been shown to be capable of compliance with the applicable technical standards and was tested in accordance with the measurement procedures as indicated in this report.

We attest to the accuracy of data. All measurements reported herein were performed by SK TECH Co., Ltd. and were made under Chief Engineer's supervision.

We assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

2. Test Site

SK TECH Co., Ltd.

2.1 Location

820-2, Wolmoon Ri, Wabu-Up, Namyangju-Si, Kyunggi-Do, Korea

The test site is in compliance with ISO/IEC 17025 for general requirements for the competence of testing and calibration laboratories.

This laboratory is recognized as a Conformity Assessment Body(CAB) for CAB's,

Designation Number: **KR0007** by FCC, is accredited by NVLAP for NVLAP Lab. Code : **200220-0** and DATech for DAR-Registration No.:**DAT-P-076/97-01**.



2.2 List of Test and Measurement Instruments

Table 1 : List of Test and Measurement Equipment

- **Conducted Disturbance**

Kind of Equipment	Type	S/N	Calibrated until
EMI Receiver	ESHS10	835871/002	09.2006
Artificial Mains Network	ESH2-Z5	836679/018	08.2006

- **Radiated Disturbance**

Kind of Equipment	Type	S/N	Calibrated until
EMI Receiver	ESIB40	100277	02.2007
Amplifier	8447F	3113A05153	08.2006
Log Periodic Antenna	UHALP9107	1819	11.2006
Biconical Antenna	BBA9106	91031626	11.2006
Antenna Turntable Driver	5907	91X518	N/A
Antenna Turntable controller	5906	91X519	N/A

2.3 Test Date

Date of Application : May. 18, 2006

Date of Test : Jun. 22, 2006 ~ Jun. 23, 2006

2.4 Test Environment

See each test item's description.



3. Description of the tested samples

The EUT is a TFT LCD TV.

3.1 Rating and Physical Characteristics

SPECIFICATION		NTSC/ATSC SYSTEM DIGITAL TV
LCD System	Active Screen Size	42" LCD TV:42.02 inches(1067.308mm)
	Pixel Pitch	170.25m X 510.75m
	Outline Dimension	760.0mm(H)x450.0mm(V)x48.0mm(D)(Typ.)
	Resolution	WXGA(1366 x 768 Pixels)
	Brightness	500cd/m ²
	Contrast Ratio	1200:1
	Viewing Angles(R/L, U/D)	View Angle Free(R/L 178, U/D178)
	Aspect Ratio	16:9
AUDIO	Speaker Out	12W + 12W
	Audio system	NTSC:BTSC, MTS(Mono/Stereo/SAP)
		ATSC:Dolby AC-3, MPEG 1/2 Layer 1&2
	Sound Effect	5 Band Equalizer, Volume balance, Auto volume level
	5 Sound Mode Support	Custom/ Standard/Music/ Movie/ Speech
VIDEO	Picture Mode	Standard/Dynamic /Mid/ Movie/ Custom (Contrast/ Brightness/ Sharpness/ Color/ Tint)
	Color Tone Temperature Mode	Normal/Warm 1/Warm 2/ Cool1/ Cool2
	Image Mode	Wide, Panorama, Zoom, 14:9, 4:3 Up/Dn scroll function in Zoom
	Miscellaneous	Blue Screen, Still Picture, Pixel Shift, DNR
Input/ Output	TV ANT input (Digital & Analog Tuner): F-connector	NTSC-M, PAL-M, PAL-N ATSC(Modulation: 8-VSB/64QAM/256QAM MPEG-2, Dolby AC-3)
	2 AV Input(RCA)	CVBS, Audio L/R
	1 S-Video input	Y/C, Audio L/R(stereo)
	1 Audio Line Out(RCA)	Audio L/R(stereo)
	2 Component Input(RCA)	YPbPr, Audio L/R(stereo)480i, 480p, 720p, 1080i
	PC Input	RGB(D-Sub), Stereo Audio Jack, up to 1280x1024 @60Hz
	HDMI input	Maxpixelinput 1920*1080i, HDCP, Audio stereo input for DM
	SPDF(1 Optical & 1 Coaxial)out	Dolby AC-3 or PCM2Ch
	USB2.0	A/S Port for DTV
	1 Stereo Jack	RS-232, A/S Port

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Function	TV Function	Auto Channel Scan, Ch Reservation Channel Edit, Program Guide
	PIP &PBP	Size(Small, Double1, Double2), Picture/Sound Swap
	V-Chip /CC	Supported
	Timer	Sleep, Wake UP & Power Off Reservation
	Multi Language Support	19 Language
	Wall Mount	VESA Compatible
Power	Consumption of Standby Mode	<6W
	Input Voltage	42" LCD TV:AC 100-240V, 50Hz/60Hz, 240W
Accessory	User Manual	
	Remote controller, Battery, Power cord	Remote Controller, Battery, Power Cord

3.2 Submitted Documents

N/A



4. Measurement Conditions

Operating voltage of the EUT is AC120V, 60Hz.

4.1 Modes of Operation

The EUT was in the following operating mode during all testing.

The EUT is connected to PC by VGA Interface Cable.

The EUT is tested in the mode of "H" on the screen.

4.2 List of Peripherals

Equipment	Manufacturer	Model Name	Serial No.
Video Camera Recorder	SONY	CCD-TRV408	985136
PC	Sam Sung Electronics	DM-V50	371F97BA100188D
KeyBoard	YEF FOUNDATE LTD.	SK-1688	C0509035688
Mouse	LOGITech Electronics	M-BJ58	HCA54718471
NTSC Pattern Generator	LEADER	401YB	0100064

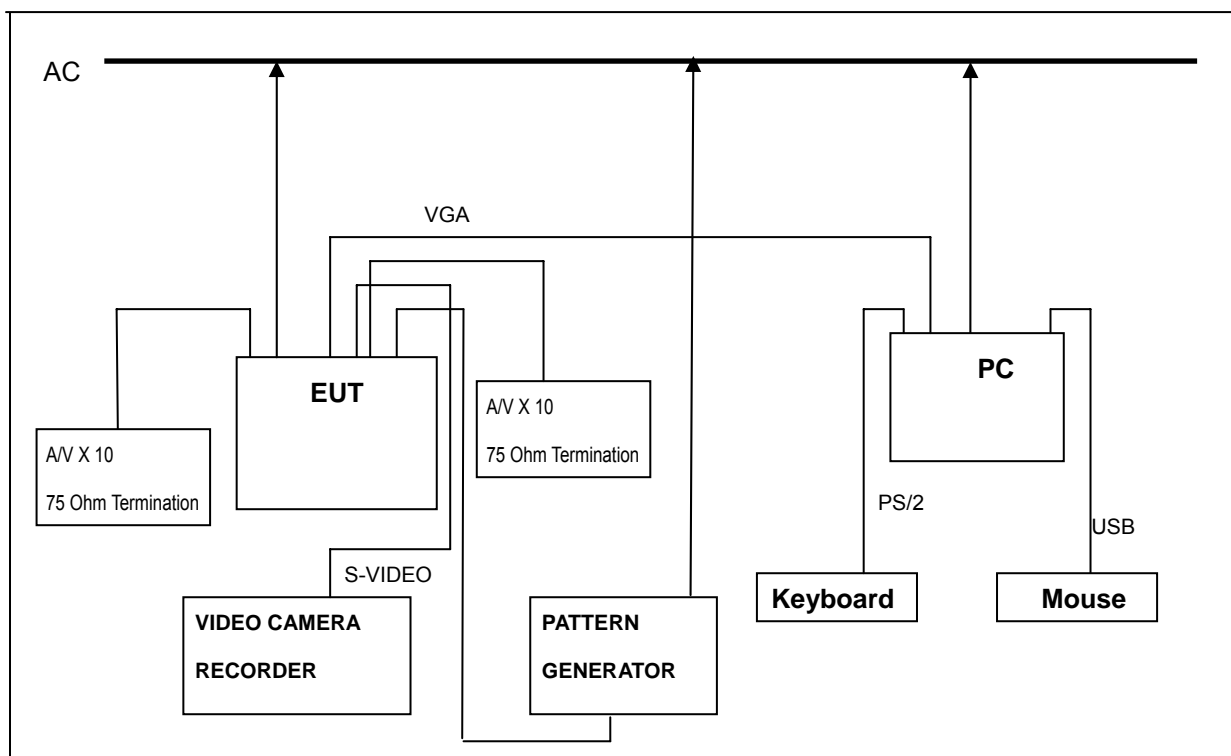


4.3 Type of Used Cables

#	START		END		Cable	
	Name	I/O Port	Name	I/O Port	Length(m)	Shielded
1	EUT AC	EUT	Power Code		1.6	Unshielded
2	VGA	EUT	PC		1.2	Shielded
3	PC AC	PC	Power Code		1.6	unshielded
4	NTSC PATTERN GENERATOR	NTSC PATTERN GENERATOR	Power Code		1.5	unshielded
5	A/V Cable(x10)	EUT	-		1.2	unshielded
6	A/V Cable(x10)	EUT	-		1.2	unshielded
	Antenna Cable	EUT	PATTERN GENERATOR		2.5	Shielded

4.4 Test Setup

The test setup photographs showed the external supply connections and interfaces.



[System Block Diagram of Test Configuration]



4.5 Uncertainty

1) Radiated disturbances from 30 MHz to 1000 MHz at a distance of 3m and 10 m

Input quantity	X_i	Probability distribution function
Receiver reading	V_r	Rectangular $\sqrt{3}$
Attenuation: antenna-receiver	L_c	$k=1$
Amplifier Error	A_e	$k=2$
antenna factor	L_{ac}	$k=2$
Receiver corrections: Sine wave voltage Pulse amplitude response Pulse repetition rate response Mismatch: antenna-receiver	dV_{sw} dV_{pa} dV_{pr} dM	Rectangular $\sqrt{3}$ Rectangular $\sqrt{3}$ Rectangular $\sqrt{3}$ $k=1$
Antenna corrections: AF frequency interpolation AF height deviations Directivity difference Phase centre location Cross-polarisation Balance	dA_{ff} dA_{fh} dA_{dir} dA_{ph} dA_{cp} dA_{bal}	Rectangular $\sqrt{3}$ Rectangular $\sqrt{3}$ 3 m: Rectangular $\sqrt{3}$, 10 m: Rectangular $\sqrt{3}$ 3 m: Rectangular $\sqrt{3}$, 10 m: Rectangular $\sqrt{3}$ Rectangular $\sqrt{3}$ Rectangular $\sqrt{3}$
Site corrections: Site imperfections Separation distance Table height	dS_A dd dh	Rectangular $\sqrt{6}$ 3 m: Rectangular $\sqrt{3}$, 10 m: Rectangular $\sqrt{3}$ 3 m: $k=2$, 10 m: $k=2$
Expanded Uncertainty		4.60(Vertical)/4.59(Horizontal) $k=2$ (Level of confidence)

Expanded Uncertainty

$$U = k * U_c(x_i) = 2 * 2.3 = 4.60\text{dB}$$

The coverage factor $k=2$ yields approximately a 95% level of confidence.

2) Conducted disturbance from 150 KHz to 30 MHz using a 50 Ω /50 μH AMN

Input quantity	X_i	Probability distribution function
Receiver reading	V_r	Rectangular $\sqrt{3}$
Attenuation: AMN-receiver	L_c	$k=1$
AMN voltage division factor	L_{amn}	$k=2$
Receiver corrections: Sine wave voltage Pulse amplitude response Pulse repetition rate response	dV_{sw} dV_{pa} dV_{pr}	Rectangular $\sqrt{3}$ Rectangular $\sqrt{3}$ Rectangular $\sqrt{3}$
Mismatch: AMN-receiver	dM	U-shape $\sqrt{2}$
AMN impedance	dZ	Triangular $\sqrt{6}$
Expanded Uncertainty		3.99 $k=2$ (Level of confidence)

Expanded uncertainty

$$U = k * U_c(x_i) = 2 * 1.96 = 3.92\text{dB}$$

The coverage factor $k=2$ yields approximately a 95% level of confidence.



5. EMISSION Test

5.1 Conducted Emissions

Result:**PASS**

The line-conducted facility is located inside a 2.6M x 3.6M x 7.0M shielded enclosure.

The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 604-05.

A 1 m x 1.5 m wooden table 80 cm high is placed 40 cm. away from the vertical wall and 1.5 m away from the side wall of the shielded room. ROHDE & SCHWARZ Model ESH3-Z5 (10 kHz-30 MHz) 50 ohm/50 uH Line-Impedance Stabilization Networks(LISNs) are bonded to the shielded room.

The EUT is powered from the ROHDE & SCHWARZ LISN and the support equipment is powered from the ROHDE & SCHWARZ LISN. Power to the LISNs are filtered by a high-current high-insertion loss Lindgren enclosures power line filters (100dB 14 kHz-10 GHz).

The purpose of the filter is to attenuate ambient signal interference and this filter is also bonded to the shielded enclosure.

All electrical cables are shielded by braided tinned copper zipper tubing with inner diameter of 1/2".

If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply lines will be connected to the ROHDE & SCHWARZ LISN.

All interconnecting cables more than 1 meter were shortened by non-inductive bundling (serpentine fashion) to a 1-meter length.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer to determine the frequency producing the maximum EME from the EUT.

The spectrum was scanned from 150 kHz to 30 MHz with 100msec. sweep time.

The frequency producing the maximum level was reexamined using EMI/field Intensity Meter (ESHS 10) and Quasi-Peak adapter. The detector function was set to CISPR quasi-peak mode.

The bandwidth of the receiver was set to 10 kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each EME emission.

Each emission was maximized by: switching power lines; varying the mode of operation or resolution; clock or data exchange speed; if applicable; whichever determined the worst-case emission.

Photographs of the worst-case emission can be seen in photograph of conducted test.

Each EME reported was calibrated using self-calibrating mode.

**Table 2: Test Data, Conducted Disturbance <Digital Mode>**

Frequency (MHz)	(1)Reading(dBuV)		Line	(2)C/F (dB)	(3)C/L (dB)	(4)Actual (dBuV)	(5)Limit (dBuV)	(6) Margin (dB)
	Q.P	A.V						
0.159	57.5	52.3	N	0.12	0.01	57.63	65.5	7.87
0.185	51.8	38.4	N	0.12	0.01	51.93	64.3	12.37
0.195	50.8	50.3	L	0.13	0.02	50.95	63.8	12.85
0.214	53.0	43.4	L	0.13	0.02	53.15	63.0	9.85
0.239	48.9	35.3	L	0.13	0.02	49.05	62.1	13.05
0.263	49.4	47.6	L	0.13	0.02	49.55	61.3	11.75

► NOTE

* C/F = Correction Factor

* C/L = Cable Loss

* LINE : L = Line-PE, N = Neutral-PE

* Margin Calculation

Margin(Q.P) = Limit - Actual

[Actual(Q.P)= Reading(Q.P) + C/F + C/L]

**Figure 1: Spectral Diagram, LINE – PE <Digital Mode>**

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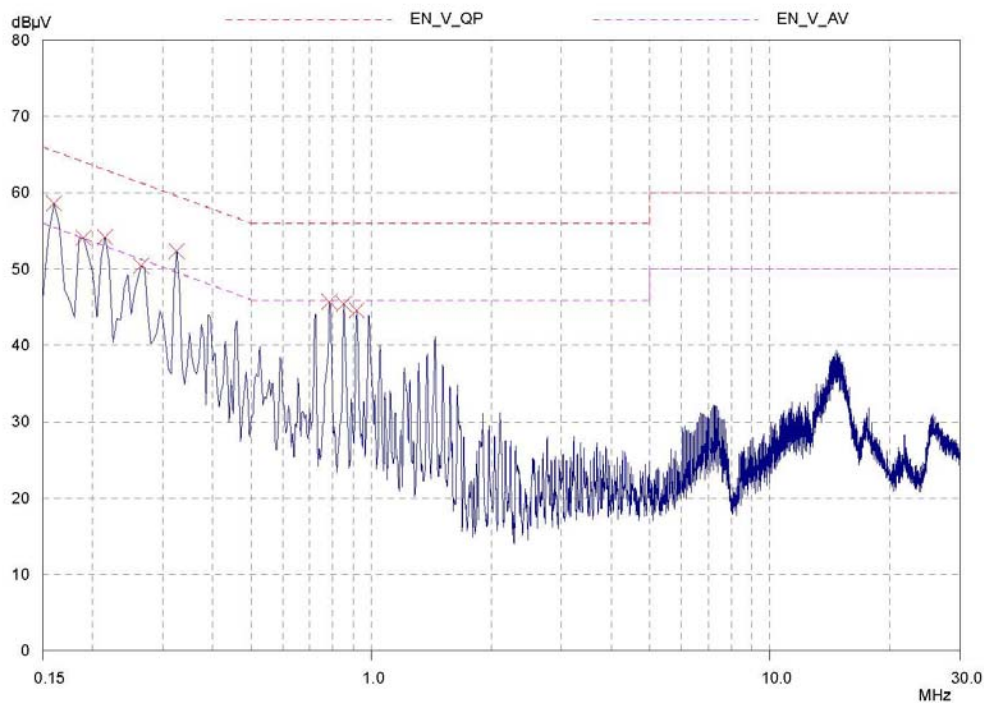
CONDUCTED DISTURBANCE

EUT: TRV-42FHB
Manuf:
Op Cond:
Operator:
Test Spec: FCC part 15 Subpart B
Comment: LINE-PE
MODE: Digital
Result File: T5.dat : TRV-42FHB-L

Scan Settings (1 Range)

Frequencies					Receiver Settings			
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	5kHz	10kHz	PK	20msec	Auto	OFF	60dB

Prescan Measurement: Detector: X PK
Meas Time: see scan settings
Peaks: 8
Acc Margin: 35 dB



**Figure 2: Spectral Diagram, NEUTRAL – PE <Digital Mode>**

22 Jun 2006 10:04

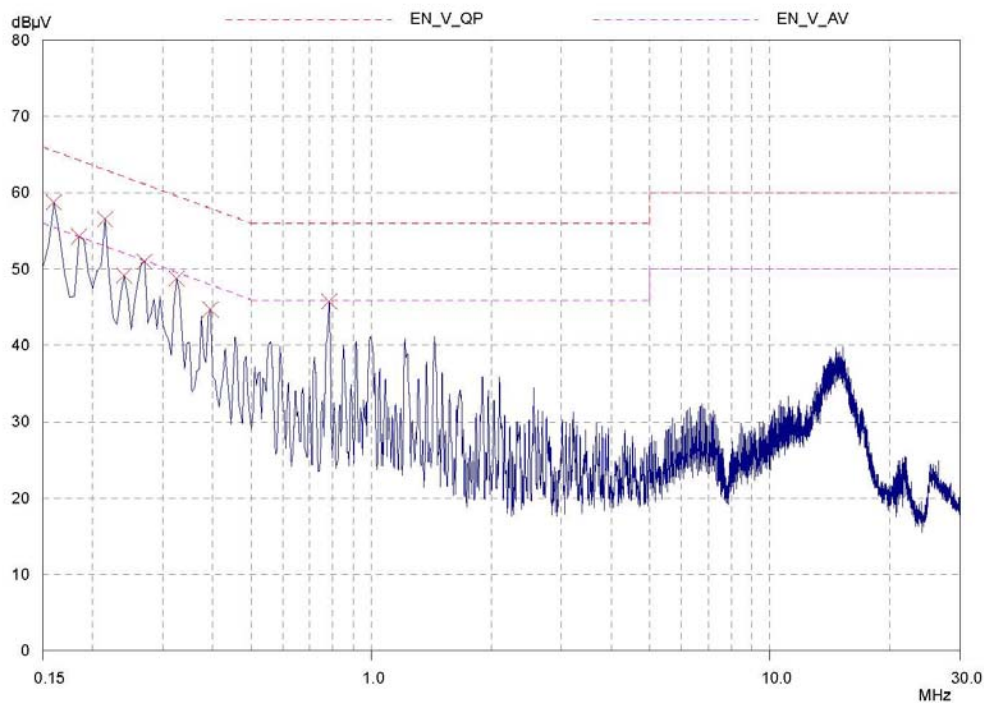
CONDUCTED DISTURBANCE

EUT: TRV-42FHB
Manuf:
Op Cond:
Operator:
Test Spec: FCC part 15 Subpart B
Comment: NEUTRAL-PE
MODE: Digital
Result File: T6.dat : TRV-42FHB-N

Scan Settings (1 Range)

Frequencies					Receiver Settings			
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	5kHz	10kHz	PK	20msec	Auto	OFF	60dB

Prescan Measurement: Detector: X PK
Meas Time: see scan settings
Peaks: 8
Acc Margin: 35 dB



**Table 3: Test Data, Conducted Disturbance <Analog Mode>**

Frequency (MHz)	(1)Reading(dBuV)		Line	(2)C/F (dB)	(3)C/L (dB)	(4)Actual (dBuV)	(5)Limit (dBuV)	(6) Margin (dB)
	Q.P	A.V						
0.159	57.8	52.8	L	0.13	0.01	57.94	65.5	7.56
0.189	52.7	45.3	N	0.12	0.01	52.83	64.0	11.17
0.191	54.8	52.9	L	0.13	0.01	54.94	63.9	8.96
0.213	54.4	45.3	N	0.12	0.02	54.54	63.1	8.56
0.258	51.1	50.5	L	0.13	0.02	51.25	61.5	10.25
0.777	53.9	46.5	L	0.14	0.05	54.09	56.0	1.91

► NOTE

* C/F = Correction Factor

* C/L = Cable Loss

* LINE : L = Line-PE, N = Neutral-PE

* Margin Calculation

Margin(Q.P) = Limit - Actual

[Actual(Q.P)= Reading(Q.P) + C/F + C/L]



Figure 3: Spectral Diagram, LINE – PE <Analog Mode>

21 Jun 2006 20:38

CONDUCTED DISTURBANCE

EUT:TRV-42FHB

Manuf:

Op Cond:

Operator:

Test Spec:FCC part 15 Subpart B

Comment:LINE-PE
AC:120V, 60Hz

Result File:T4.dat : TRV-42FHB-L

Scan Settings

(1 Range)

Frequencies					Receiver Settings			
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	5kHz	10kHz	PK	20msec	Auto	OFF	60dB

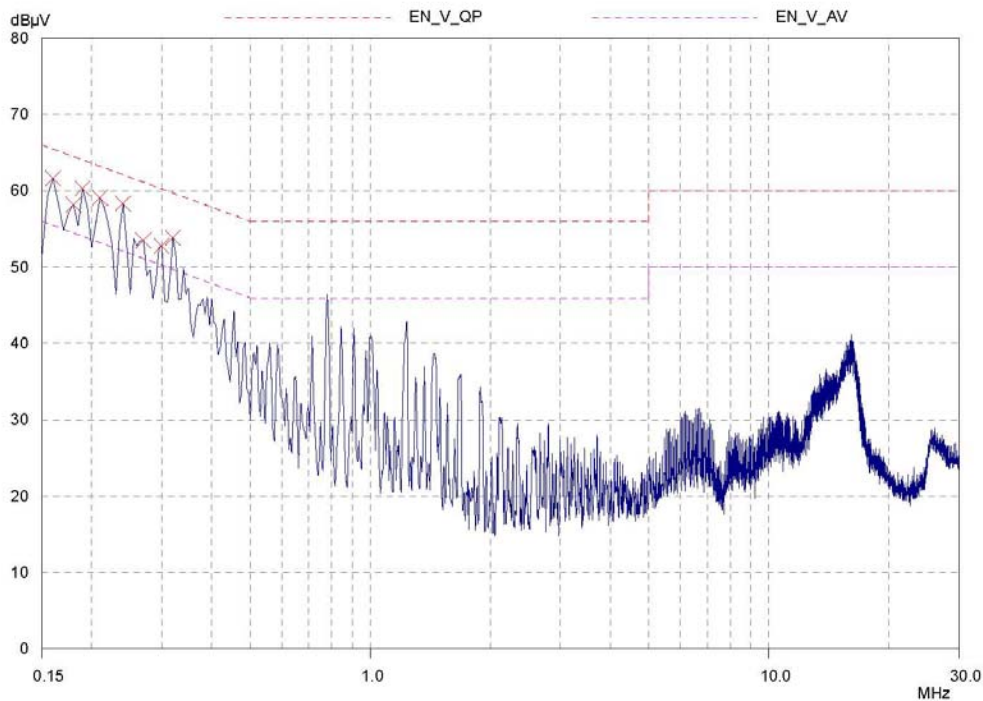
Prescan Measurement:

Detector:X PK

Meas Time:see scan settings

Peaks:8

Acc Margin:35 dB



**Figure 4: Spectral Diagram, NEUTRAL – PE <Analog Mode>**

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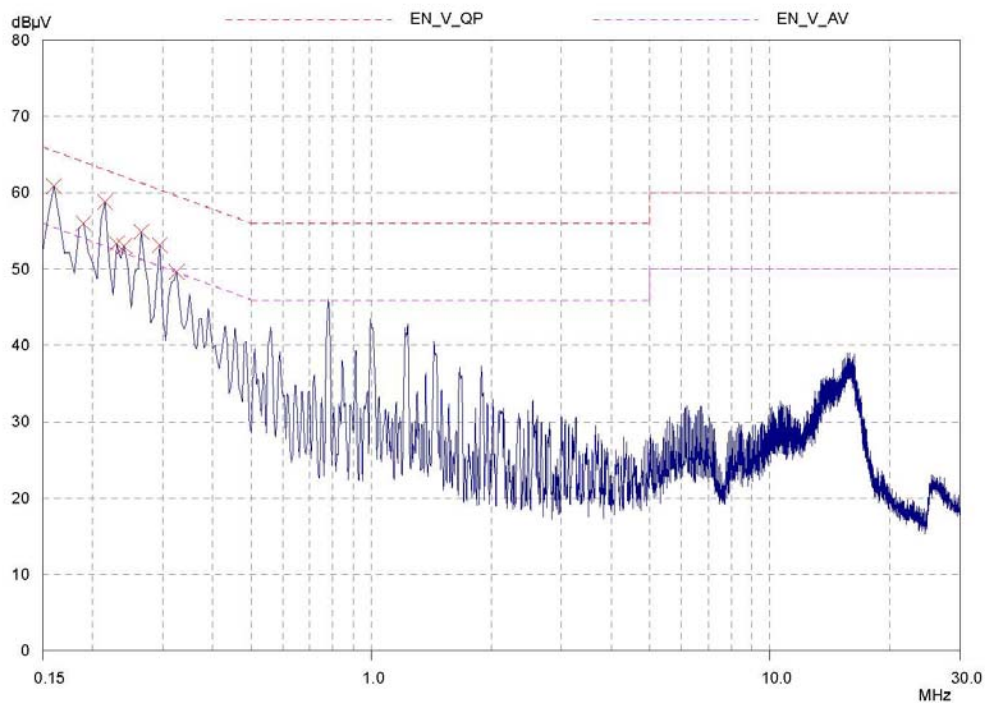
CONDUCTED DISTURBANCE

EUT: HLT-42FHB
Manuf:
Op Cond:
Operator:
Test Spec: FCC part 15 Subpart B
Comment: NEUTRAL-PE
AC:120V, 60Hz
Result File: T3.dat : TRV-42FHB-N

Scan Settings (1 Range)

Frequencies			Receiver Settings						
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge	
150kHz	30MHz	5kHz	10kHz	PK	20msec	Auto	OFF	60dB	

Prescan Measurement: Detector: X PK
Meas Time: see scan settings
Peaks: 8
Acc Margin: 35 dB





5.2 Radiated Emissions

Result :**PASS**

Preliminary measurements were made indoors at 3 meter using broadband antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME.

Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, turntable azimuth with respect to the antenna were noted for each frequency found.

The spectrum was scanned from 30 to 300 MHz using biconical antenna and from 300 to 1000 MHz using log-periodic antenna. Above 1 GHz, linearly polarized double ridge horn antennas were used.

Final measurements were made outdoors at 3-meter test range using SCHWARZBECK dipole antennas.

The test equipment was placed on a wooden table situated on a 4x4 meter area adjacent to the measurement area. Turntable was to protect from weather in the dome that made with FRP.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was re-examined and investigated using EMI/Field Intensity Meter(ESVS 10) and Quasi-Peak Adapter.

The detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 100 kHz or 1 MHz depending on the frequency or type of signal.

The half-wave dipole antenna was tuned to the frequency found during preliminary radiated measurements. The EUT, support equipment and interconnecting cables were re-configured to the set-up producing the maximum emission for the frequency and were placed on top of a 0.8-meter high non-metallic 1 x 1.5 meter table.

The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each EME emission. The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission.

Each emission was maximized by: varying the mode of operation or resolution; clock or data exchange speed, and/or support equipment, if applicable; and changing the polarity of the antenna, whichever determined the worst-case emission.

Photographs of the worst-case emission can be seen in photograph of radiated emission test.

Each EME reported was calibrated using self-calibrating mode.

**Table 4 : Test Data, Radiated Emissions****<Digital Mode>**

Frequency [MHz]	Pol.	Height [m]	Real Reading	Correction Factor		T-Fact [dB]	Data [dBuV/m]	Limits [dBuV/m]	Margin [dB]
				Antenna	Cable				
163.35	V	1.0	9.7	15.3	1.3	16.6	26.3	30.0	3.7
170.79	V	1.0	10.1	15.5	1.4	16.9	27.0	30.0	3.0
285.30	H	1.3	9.2	18.5	1.5	20.0	29.2	37.0	7.8
311.92	H	4.0	10.4	16.5	1.6	18.1	28.5	37.0	8.5
460.38	H	2.8	13.7	18.0	1.9	19.9	33.6	37.0	3.4
467.78	H	1.9	13.9	18.1	1.9	20.0	33.9	37.0	3.1

Table. Radiated Measurements at 10-meters

<Analog Mode>

Frequency [MHz]	Pol.	Height [m]	Real Reading	Correction Factor		T-Fact [dB]	Data [dBuV/m]	Limits [dBuV/m]	Margin [dB]
				Antenna	Cable				
222.64	H	2.8	8.2	17.0	1.4	18.4	26.6	30.0	3.4
255.12	H	3.5	12.6	17.6	1.3	18.9	31.5	37.0	5.5
278.45	H	3.7	14.2	18.2	1.5	19.7	33.9	37.0	3.1
279.10	H	3.4	13.6	18.3	1.5	19.8	33.4	37.0	3.6

Table. Radiated Measurements at 10-meters

NOTES:

1. All modes of operation were investigated and the worst-case emission are reported.
2. All other emission are non-significant.
3. All readings are calibrated by self-mode in receiver.
4. Measurements using CISPR Quasi-Peak mode.
5. H = Horizontal, V = Vertical Polarization
6. Data = Real Reading + T - Fact(Antenna+Cable)
7. Margin = Limits – Data