



SK TECH CO., LTD.

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## Certificate of Compliance

<b>Test Report No.:</b>	SKTFCE-041214-106		
<b>NVLAP CODE :</b>	200220-0		
<b>Applicant:</b>	DataView Co., Ltd.		
<b>Applicant Address:</b>	371-36, Gasan-dong, Kumchen-gu, Seoul, Korea.		
<b>Manufacturer:</b>	DataView Co., Ltd.		
<b>Manufacturer Address:</b>	371-36, Gasan-dong, Kumchen-gu, Seoul, Korea.		
<b>Product:</b>	TFT LCD MONITOR	<b>FCC ID</b>	PRXDAVI-1700S
<b>Model No.:</b>	DAVI-1700S	<b>Serial No.:</b>	N/A
<b>Buyer Model/ Multi Model No</b>	N/A		
<b>Receipt No.:</b>	SKTEU04-0774	<b>Date of receipt:</b>	Dec. 01, 2004
<b>Date of Issue:</b>	Dec.16.2004		
<b>Testing location:</b>	SK TECH CO., LTD. 820-2, Wolmoon-Ri, Wabu-Up, Namyangju-Si, Kyunggi-Do, Korea		
<b>Test Standards:</b>	ANSI C63.4 / 2003		
<b>Rule Parts:</b>	FCC part 15 Subpart B /This Class B digital apparatus complies with Canadian ICES-003		
<b>Equipment Class :</b>	Class B Digital Device Peripheral		
<b>Test Result:</b>	The above mentioned product has been tested and passed.		

Tested by: Y.G.Lee /Engineer

Approved by: C.H.Jeong/Manager &amp; Chief Engineer

Dec. 16. 2004

Dec. 16. 2004

Signature

Date

Signature

Date

Other Aspects :

Abbreviations : · OK, Pass = passed · Fail = failed · N/A = not applicable



- This test report is not permitted to copy partly without our permission.
- This test result is dependent on only equipment to be used.
- This test result is based on a single evaluation of one sample of the above mentioned.
- This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S Government.
- We certify that this test report has been based on the measurement standards that is traceable to the national or International standards.

NVLAP Lab. Code: 200220-0

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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 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	862970/019	10.2005
Artificial Mains Network	ESH2-Z5	834549/011	08.2005
EMI Receiver	ESHS10	835871/002	10.2005
Artificial Mains Network	ESH3-Z5	836679/018	08.2005

### ■ Radiated Disturbance

Kind of Equipment	Type	S/N	Calibrated until
EMI Receiver	ESVS 10	825120/013	10.2005
EMI Receiver	ESVS 10	834468/008	10.2005
Spectrum Analyzer	R3361A	11730187	10.2005
Amplifier	8447F	3113A05153	08.2005
Log Periodic Antenna	UHALP9107	1819	10.2005
Biconical Antenna	BBA9106	91031626	10.2005
Open Site Cable	N/A	N/A	N/A
Antenna Turntable Driver	5907	N/A	N/A
Antenna Turntable controller	5906	N/A	N/A
Amp & Receiver connection cable	N/A	N/A	N/A
Amp & Spectrum connection cable	N/A	N/A	N/A
50Ω Switcher	MP59B	6100214538	N/A

## 2.3 Test Date

Date of Application : Dec. 01, 2004

Date of Test : Dec. 09, 2004 ~ Dec. 10, 2004

## 2.4 Test Environment

See each test item's description.



### 3. Description of the tested samples

The EUT is the TFT LCD MONITOR.

#### 3.1 Ratings and Physical Characteristics

Panel	Type	17" Active Matrix LCD
	Pixel Pitch(H x V)	0.264x0.264 mm
	Display Color	16.7M
	Display Area(H x V)	337.92x270.33 mm
	Resolution	1280 x1024°
	Viewing Angle (L/R/U/P)	70/ 70/ 60/ 60 degrees
	Contrast Ratio	450:1
	Brightness	250 cd / square meter
Input signal	Horizontal Frequency	30-80 kHz
	Vertical Frequency	56-75 Hz
Video	Signal Input	Analog RGB / DVI-D
	Sync Type	Separate
Audio	Audio	Non Support
	Plug & Plug	DDC 1/2B
Power Input	AC Input	90~264V / 47~63Hz
Monitor Power	DC Input	12V / 3.3A
	Max. Consumption	30W
	Stand-by	<1W
	Management	VESA DPMS
Operating Environment	Temperature	0~50 °C
	Humidity	Less 90%
Dimension	Without Stand	320(H)x380(W)x60(D) mm
	With Stand	400(H)x380(W)x150(D) mm
Other	Certifications	FCC, CE, VCCI, MIC
	Tilting Degree(U/D)	20/ -5 degree
	Weight	NET 5.2Kg / Gross 6.2Kg
	Monitor Color	Dark Silver

#### 3.2 Submitted Documents

N/A

#### 4. Measurement Conditions



Operating voltage of the EUT is 110V, 60Hz  
(Adaptor Output : DC 12.0 V, 3.33 A)

## 4.1 Modes of Operation

The EUT was in the following operation mode during all testing;

The EUT is connected to PC by VGA interface cable.

The EUT is tested in the mode of windows media player displaying "H" on the screen.

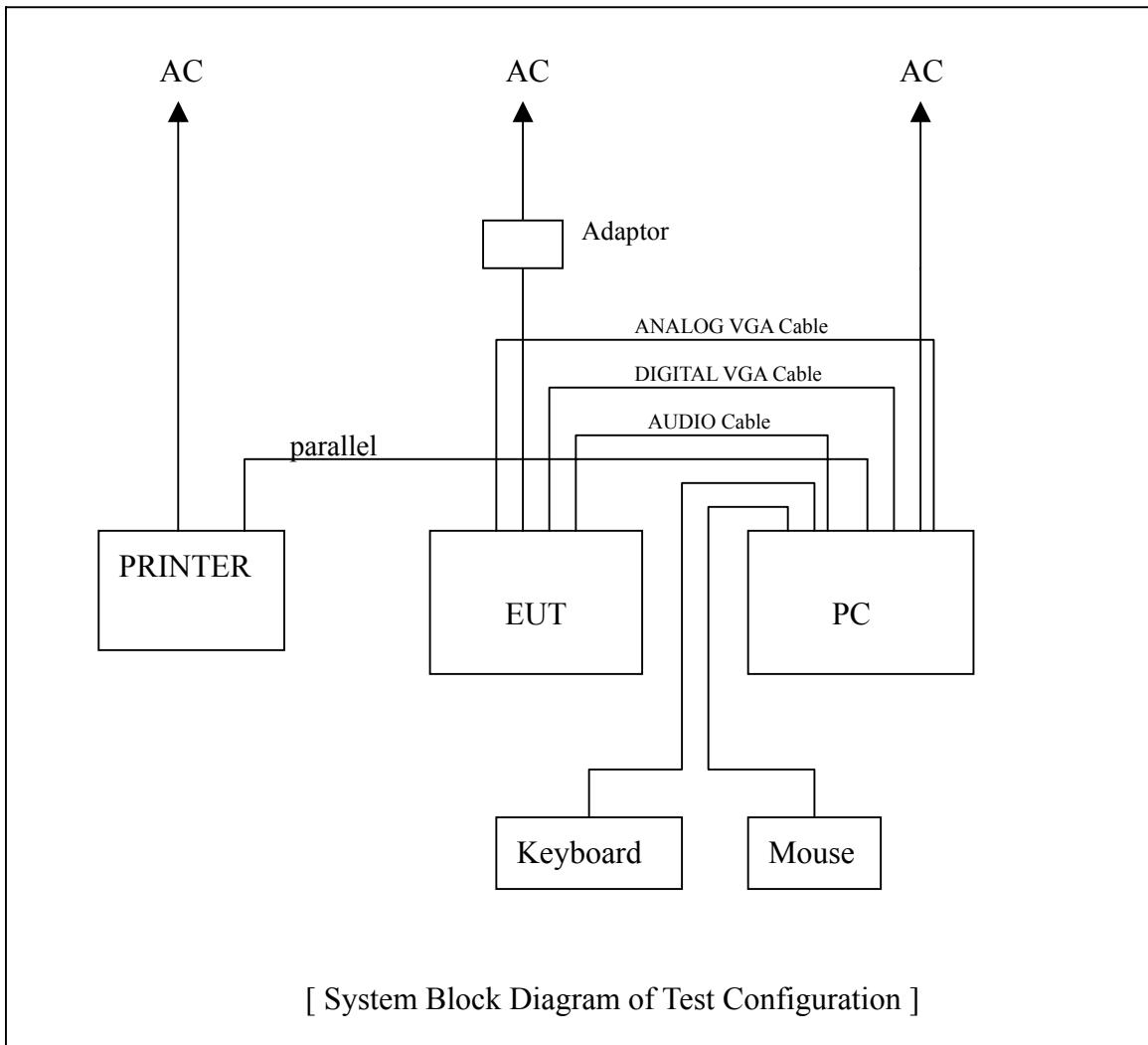
## 4.2 Additional Equipments

Equipment	Manufacturer	Model No.	Serial No.
Personal Computer	LG Electronics	W8S	202KI10585
Keyboard	Jing Mold Enterprise Co.,Ltd	LKB-0107	20103129
Printer	EPSON PRECISION (PHILIPPINES), INC.	EPSON STYLUS PHOTO 830	ELTK014637
MOUSE	LG	LMULBGS01I	04CU000259
Adaptor (EUT)	Channel Well Technology	PAA040F	I0408006172



## 4.3 Test Setup

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





## 4.4 Uncertainty

### 1) Radiated disturbance

- ◎ Horizontally polarized radiated disturbances from 30MHz to 1000MHz at a distance of 10m

Input quantity	Uncertainty of Xi		U(Xi) dB	Ci	Ci <sub>u</sub> (xi)	CISPR 16-4
	dB	Probability distribution function				
1) Receiver reading	±0.1	K=1	0.1	1	<b>0.1</b>	0.10
2) Attenuation: antenna-receiver	±0.18	K=2	0.09	1	<b>0.09</b>	0.05
3) Antenna factor	±1.5	K=2	0.75	1	<b>0.75</b>	1.00
RECEIVER CORRECTIONS:						
4) Sine wave voltage	±0.56	K=2	0.28	1	<b>0.50</b>	0.50
5) Pulse amplitude response	±1.5	Rectangular ( $\sqrt{3}$ )	0.87	1	<b>0.87</b>	0.87
6) Pulse repetition rate response	±1.5	Rectangular ( $\sqrt{3}$ )	0.87	1	<b>0.87</b>	0.87
7) Noise floor proximity	±0.5	K=2	0.25	1	<b>0.25</b>	0.25
8) AF frequency interpolation	±0.3	Rectangular ( $\sqrt{3}$ )	0.17	1	<b>0.17</b>	0.17
9) Balance	±0.3	Rectangular ( $\sqrt{3}$ )	0.17	1	<b>0.17</b>	0.53
10) AF height deviations	±0.5	Rectangular ( $\sqrt{3}$ )	0.29	1	<b>0.29</b>	0.29
11) Phase center location	±0.3	Rectangular ( $\sqrt{3}$ )	0.17	1	<b>0.17</b>	0.17
12) Directive difference	+1.0	Rectangular ( $\sqrt{3}$ )	0.29	1	<b>0.29</b>	0.29
13) Cross polarization	±0.9	Rectangular ( $\sqrt{3}$ )	0.52	1	<b>0.52</b>	0.52
14) Site corrections	±2.6	Rectangular ( $\sqrt{3}$ )	1.5	1	<b>1.5</b>	1.63
15) Mismatch (ant-receiver)	±1.06	U-shaped ( $\sqrt{2}$ )	0.75	1	<b>0.75</b>	0.67

Combined Uncertainty

$$U_c(x_i) = \sqrt{(1)^2 + (2)^2 + (3)^2 + (4)^2 + (5)^2 + (6)^2 + (7)^2 + (8)^2 + (9)^2 + (10)^2 + (11)^2 + (12)^2 + (13)^2 + (14)^2 + (15)^2} = 2.37$$

Expanded Uncertainty

$$U = k * U_c(x_i) = 2 * 2.37 = 4.74 \text{dB} \text{ (The coverage factor } k = 2 \text{ yields approximately a 95% level of confidence)}$$



◎ Vertically polarized radiated disturbances from 30MHz to 1000MHz at a distance of 10m

Input quantity	Uncertainty of Xi		U(Xi) dB	Ci	Ciu(xi)	CISPR 16-4
	dB	Probability distribution function				
1) Receiver reading	±0.1	K =1	0.1	1	<b>0.1</b>	0.10
2) Attenuation: antenna-receiver	±0.18	K=2	0.09	1	<b>0.09</b>	0.05
3) Antenna factor	±1.5	K=2	0.75	1	<b>0.75</b>	1.00
RECEIVER CORRECTIONS:						
4) Sine wave voltage	±0.56	K=2	0.28	1	<b>0.50</b>	0.50
5) Pulse amplitude response	±1.5	Rectangular ( $\sqrt{3}$ )	0.87	1	<b>0.87</b>	0.87
6) Pulse repetition rate response	±1.5	Rectangular ( $\sqrt{3}$ )	0.87	1	<b>0.87</b>	0.87
7) Noise floor proximity	±0.5	K=2	0.25	1	<b>0.25</b>	0.25
8) AF frequency interpolation	±0.3	Rectangular ( $\sqrt{3}$ )	0.17	1	<b>0.17</b>	0.17
9) Balance	±0.9	Rectangular ( $\sqrt{3}$ )	0.52	1	<b>0.52</b>	0.52
10) AF height deviations	±0.3	Rectangular ( $\sqrt{3}$ )	0.17	1	<b>0.17</b>	0.17
11) phase center location	±0.3	Rectangular ( $\sqrt{3}$ )	0.17	1	<b>0.17</b>	0.17
12) directive difference	+1.0	Rectangular ( $\sqrt{3}$ )	0.29	1	<b>0.29</b>	0.29
13) cross polarization	±0.9	Rectangular ( $\sqrt{3}$ )	0.52	1	<b>0.52</b>	0.52
14) site corrections	±2.6	Rectangular ( $\sqrt{3}$ )	1.5	1	<b>1.5</b>	1.63
15) Mismatch (ant-receiver)	±1.06	U-shaped ( $\sqrt{2}$ )	0.75	1	<b>0.75</b>	0.67

Combined Uncertainty

$$U_c(x_i) = \sqrt{(1)^2 + (2)^2 + (3)^2 + (4)^2 + (5)^2 + (6)^2 + (7)^2 + (8)^2 + (9)^2 + (10)^2 + (11)^2 + (12)^2 + (13)^2 + (14)^2 + (15)^2} = 2.43$$

Expanded Uncertainty

$$U = k * U_c(x_i) = 2 * 2.43 = 4.86 \text{ dB}$$

(The coverage factor k =2 yields approximately a 95% level of confidence)



## 2) Conducted disturbance

### ◎ Conducted disturbance from 150KHz to 30MHz using a 50Ω/50uH AMN

input quantity	Uncertainty of Xi		U(Xi) dB	Ci	Ciu(xi)	CISPR 16-4
	dB	Probability distribution function				
1) Receiver Readeing	±0.1	K=1	0.1	1	<b>0.1</b>	0.10
2) Attenuation:AMN-receiver	±0.36	Triangular (√6)	0.15	1	<b>0.15</b>	0.05
RECEIVER CORRECTIONS:						
3) Sine wave voltage	±0.5	K=2	0.25	1	<b>0.25</b>	0.50
4) Pulse amplitude response	±1.5	Rectangular (√3)	0.87	1	<b>0.87</b>	0.87
5) Pulse repetition rate response	±1.5	Rectangular (√3)	0.87	1	<b>0.87</b>	0.87
6) AMN voltage division factor	±0.07	K=2	0.04	1	<b>0.04</b>	0.1
7) Mismatch : AMN-receiver	±0.55	U-shaped (√2)	0.39	1	<b>0.39</b>	0.53
8) AMN impedance	±1.52	Triangular (√6)	0.62	1	<b>0.62</b>	1.08

- 1)~8) For numbered comments, refer to following articles

### Combined Uncertainty

$$Uc(xi) = \sqrt{(1)^2 + (2)^2 + (3)^2 + (4)^2 + (5)^2 + (6)^2 + (7)^2 + (8)^2} = 1.47$$

### Expanded uncertainty

$$U = k * Uc(xi) = 2 * 1.47 = 2.94 \text{dB}$$

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

### ◎ Refer

- 1) receiver's resolution capacity
- 2) refer to the sub clause 11. of a calibration report
- 3) quoted from CISPR 16-4
- 4) refer to a calibration report
- 5) refer to CISPR 16-4 article 5.7)
- 6) refer to a calibration report and a measured AMN impedance data



## 5. Test Results

### 5.1 Conducted Emissions

Result	PASS
<p>The line-conducted facility is located inside a 2.0M x 3.6M x 7.2M shielded enclosure.</p>	
<p>The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 604-05. A 1m x 1.5m wooden table 80cm. high is placed 40cm. away from the vertical wall and 1.5m away from the side wall of the shielded room. ROHDE &amp; SCHWARZ Model ESH3-Z5 (10kHz-30MHz) 50ohm/50 uH Line-Impedance Stabilization Networks(LISNs) are bonded to the shielded room.</p>	
<p>The EUT is powered from the ROHDE &amp; SCHWARZ LISN and the support equipment is powered from the ROHDE &amp; SCHWARZ LISN. Power to the LISNs are filtered by a high-current high-insertion loss Lindgren enclosures power line filters (100dB 14kHz-10GHz).</p>	
<p>The purpose of the filter is to attenuate ambient signal interference and this filter is also bonded to the shielded enclosure.</p>	
<p>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 &amp; SCHWARZ LISN.</p>	
<p>All interconnecting cables more than 1 meter were shortened by non-inductive bundling (serpentine fashion) to a 1-meter length.</p>	
<p>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.</p>	
<p>The spectrum was scanned from 150kHz to 30MHz with 100msec. sweep time.</p>	
<p>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.</p>	
<p>The bandwidth of the receiver was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each EME emission.</p>	
<p>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.</p>	
<p>Photographs of the worst-case emission can be seen in photograph of conducted test.</p>	
<p>Each EME reported was calibrated using self-calibrating mode.</p>	

\* Supplementing the conduction graphs and data to next 4 pages.



## Supplement 1 : Spectral Diagram, LINE – PE

09 Dec 2004 10:17

## CONDUCTED DISTURBANCE

EUT: DAVI-1700S

Manuf:

Op Cond:

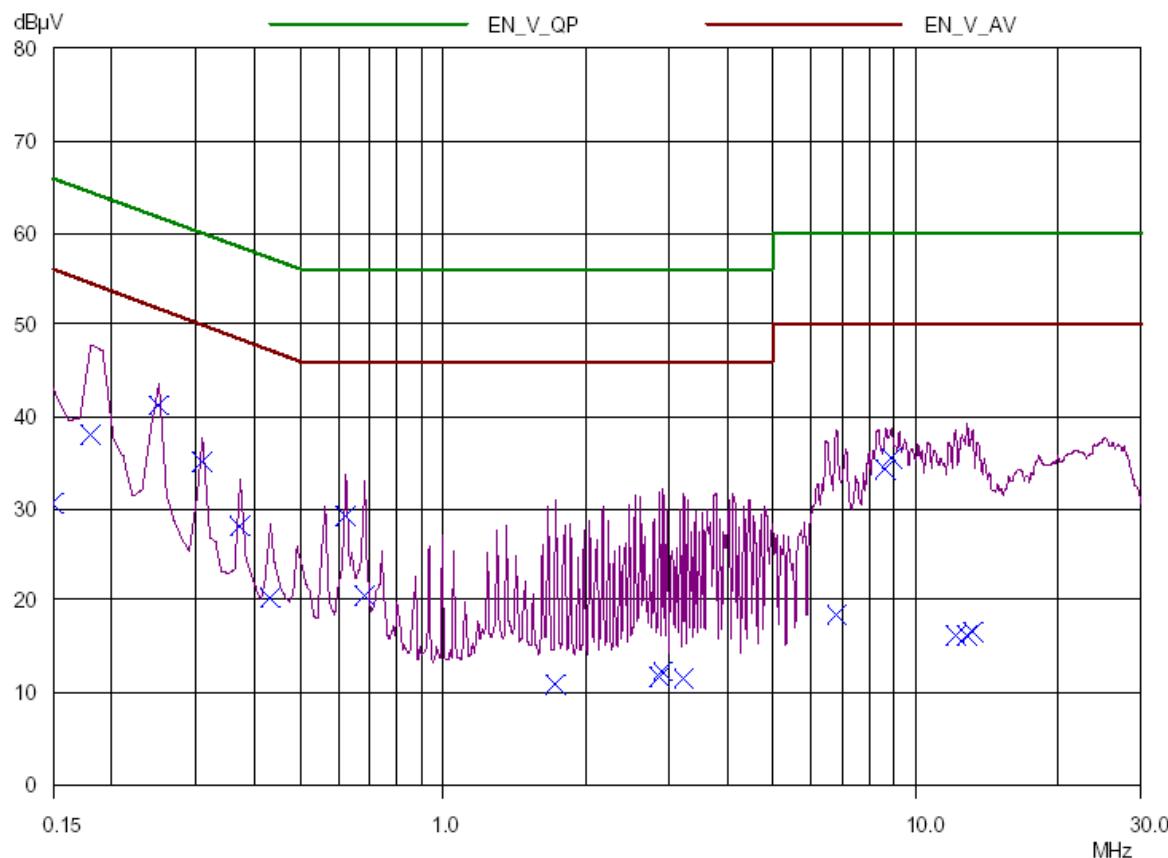
Operator:

Test Spec:

Comment: LINE-PE

Result File: 1700SL.dat : New Measurement

Scan Settings		(1 Range)			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge	
150kHz	30MHz	10kHz	10kHz	PK	100msec	Auto	OFF	60dB	
Final Measurement:									
	Detector:	X QP							
	Meas Time:	1sec							
	Peaks:	8							
	Acc Margin:	35 dB							





## Supplement 2 : Test Data, LINE – PE

09 Dec 2004 10:17

## CONDUCTED DISTURBANCE

EUT: DAVI-1700S

Manuf:

Op Cond:

Operator:

Test Spec:

Comment: LINE-PE

Result File: 1700SL.dat : New Measurement

Scan Settings	(1 Range)				Receiver Settings			
	Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
	150kHz	30MHz	10kHz	10kHz	PK	100msec	Auto	OFF

Final Measurement:	Detector:	X QP
	Meas Time:	1sec
	Peaks:	8
	Acc Margin:	35 dB

## Final Measurement Results

Frequency MHz	QP Level dB $\mu$ V	QP Limit dB $\mu$ V	QP Delta dB
0.15	30.65	66.00	35.35
0.18	37.88	64.49	26.61
0.25	41.25	61.76	20.51
0.31	35.19	59.97	24.78
0.37	28.11	58.50	30.39
0.43	20.23	57.25	37.02
0.62	29.08	56.00	26.92
0.68	20.58	56.00	35.42
1.73	10.82	56.00	45.18
2.85	11.74	56.00	44.26
2.91	12.26	56.00	43.74
3.22	11.46	56.00	44.54
6.82	18.35	60.00	41.65
8.62	34.34	60.00	25.66
8.87	35.42	60.00	24.58
12.1	16.22	60.00	43.78
12.85	16.18	60.00	43.82
13.16	16.59	60.00	43.41

\* limit exceeded



## Supplement 3 : Spectral Diagram, Neutral – PE

09 Dec 2004 10:05

## CONDUCTED DISTURBANCE

EUT: DAVI-1700S

Manuf:

Op Cond:

Operator:

Test Spec:

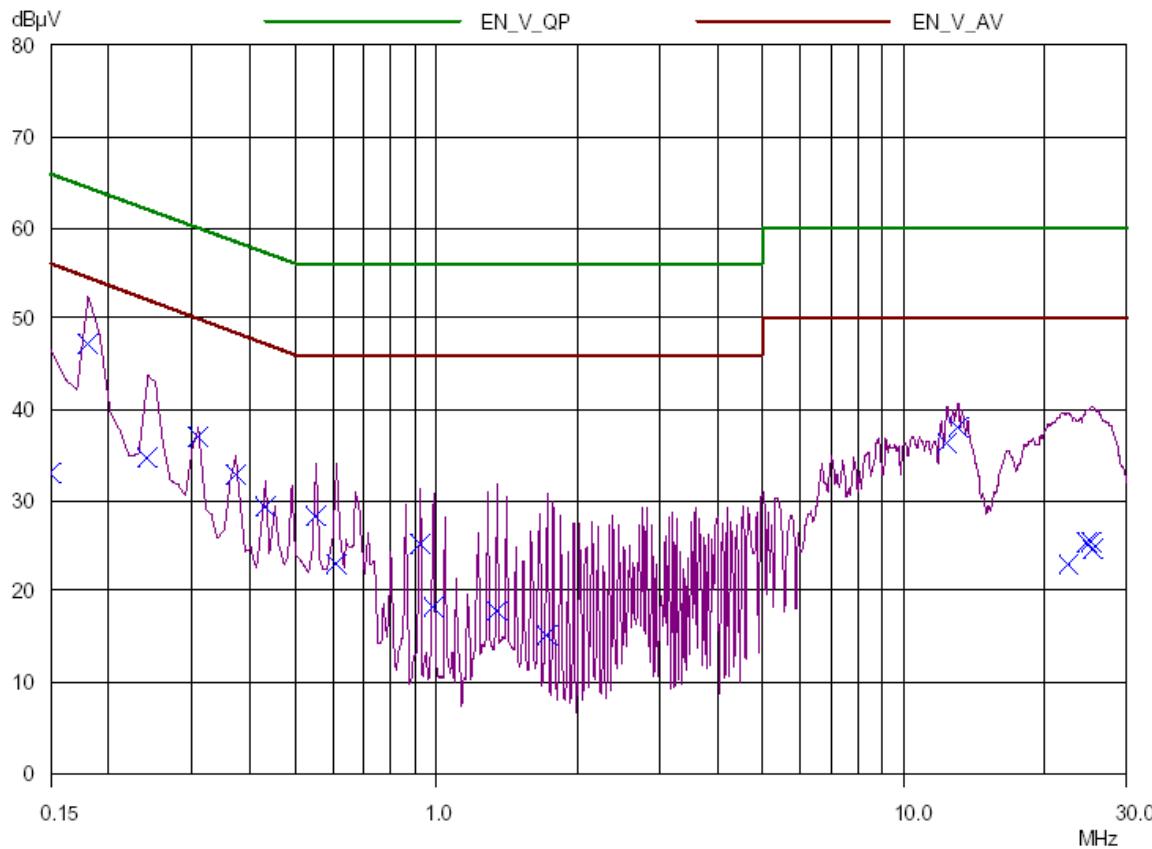
Comment: NEUTRAL-PE

Result File: 1700SN.dat : New Measurement

Scan Settings	(1 Range)				Receiver Settings					
	Frequencies		Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge	
Start	150kHz	Stop	30MHz	10kHz	10kHz	PK	100msec	Auto	OFF	60dB

Final Measurement:

Detector:	X QP
Meas Time:	1sec
Peaks:	8
Acc Margin:	35 dB





## Supplement 5 : Test Data, Neutral – PE

09 Dec 2004 10:05

## CONDUCTED DISTURBANCE

EUT: DAVI-1700S

Manuf:

Op Cond:

Operator:

Test Spec:

Comment: NEUTRAL-PE

Result File: 1700SN.dat : New Measurement

## Scan Settings (1 Range)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	30MHz	10kHz	10kHz	PK	100msec	Auto	OFF	60dB

Final Measurement:      Detector: X QP  
 Meas Time: 1sec  
 Peaks: 8  
 Acc Margin: 35 dB

## Final Measurement Results

Frequency MHz	QP Level dB $\mu$ V	QP Limit dB $\mu$ V	QP Delta dB
0.15	33.12	66.00	32.88
0.18	47.21	64.49	17.28
0.24	34.58	62.10	27.52
0.31	36.85	59.97	23.12
0.37	32.74	58.50	25.76
0.43	29.43	57.25	27.82
0.55	28.29	56.00	27.71
0.61	23.07	56.00	32.93
0.92	25.14	56.00	30.86
0.98	18.30	56.00	37.70
1.35	17.74	56.00	38.26
1.72	15.19	56.00	40.81
12.35	36.42	60.00	23.58
13.03	37.97	60.00	22.03
22.46	22.98	60.00	37.02
24.69	25.37	60.00	34.63
25.0	25.47	60.00	34.53
25.37	24.70	60.00	35.30

\* limit exceeded



## 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 1GHz, linearly polarized double ridge horn antennas were used.

Final measurements were made outdoors at 10meter 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 100kHz or 1MHz 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 2 : Test Data, Radiated Emissions**

Frequency	Pol.	Height	Real	Correction Factor		T-Fact	Data	Limits	Margin
[MHz]		[m]	Reading	Antenna	Cable	[dB]	[dBuV/m]	[dBuV/m]	[dB]
110.35	h	3.5	23.8	11.6	1.5	13.1	36.9	43.5	6.6
211.73	h	2.8	16.0	16.7	2.4	19.1	35.1	43.5	8.4
365.27	v	1.0	18.4	17.3	3.6	20.9	39.3	46.0	6.7
432.58	h	2.5	18.3	17.6	4.1	21.7	40.0	46.0	6.0
542.01	h	3.1	16.1	19.7	4.9	24.6	40.7	46.0	5.3
648.34	h	1.2	14.2	21.9	5.5	27.4	41.6	46.0	4.4

**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-FACTOR(=Antenna + Cable)
7. Margin = Limit - DATA