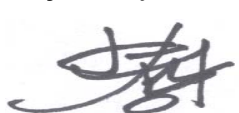




**SK TECH CO., LTD.**

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## Certificate of Compliance

<b>Test Report No.:</b>	<b>SKTFCE-041001-089</b>		
<b>NVLAP CODE:</b>	<b>200220-0</b>		
<b>Applicant:</b>	<b>musetel Co., Ltd.</b>		
<b>Applicant Address:</b>	#709, TechnoPark A Dong, 150, Yatap-Dong, Bundang-Gu, SungNam GyeongGi, 463-760, Korea		
<b>Manufacturer:</b>	<b>musetel Co., Ltd.</b>		
<b>Manufacturer Address:</b>	#709, TechnoPark A Dong, 150, Yatap-Dong, Bundang-Gu, SungNam GyeongGi, 463-760, Korea		
<b>Product:</b>	<b>Card Reader</b>		
<b>FCC ID:</b>	<b>RPTSCR0001</b>		
<b>Model No.:</b>	<b>SCR0001</b>	<b>Serial No.:</b>	N/A
<b>Multi-listing M/N:</b>	N/A		
<b>Receipt No.:</b>	SKTEU04-0616	<b>Date of receipt:</b>	Sep. 22, 2004
<b>Date of Issue:</b>	Oct. 07, 2004		
<b>Testing location:</b>	SK TECH CO., LTD. 820-2, Wolmoon-Ri, Wabu-Up, Namyangju-Si, Kyunggi-Do, Korea		
<b>Test Standards:</b>	<b>ANSI C63.4 / 2001</b>		
<b>Rule Parts:</b>	<b>FCC part 15 Subpart B</b>		
<b>Equipment Class:</b>	<b>Class B Computing Device Peripheral</b>		
<b>Test Result:</b>	The above mentioned product has been tested and passed.		
<b>Tested by:</b> J.S.Hyun / Engineer		<b>Approved by:</b> C.H.Jeong / Manager & Chief Engineer	
 _____ <i>Signature</i> <i>Date</i>		 _____ <i>Signature</i> <i>Date</i>	
<b>Other Aspects :</b>			
<b>Abbreviations :</b>	· 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>			
 <b>NVLAP Lab. Code: 200220-0</b>			



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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	10.2004
Artificial Mains Network	ESH2-Z5	834549/011	08.2005
EMI Receiver	ESHS10	835871/002	10.2004
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	10.2004
EMI Receiver	ESVS 10	834468/008	10.2004
Spectrum Analyzer	R3361A	11730187	10.2004
Amplifier	8447F	3113A05153	08.2005
Log Periodic Antenna	UHALP9107	1819	10.2004
Biconical Antenna	BBA9106	91031626	10.2004
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 : Sep. 22, 2004

Date of Test : Sep. 23, 2004 ~ Sep. 24, 2004

## 2.4 Test Environment

See each test item's description.



### 3. Description of the tested samples

The EUT is the Card Reader

#### 3.1 Rating and Physical Characteristics

Compatibility	MMC, RS-MMC, SD, miniSD Card (with miniSD adapter)
Operating System	Windows 98SE/ME/2000/XP/2003 Server Windows CE. Net 4.2 Mac OS 8.6/9.2, Mac OS X
Drivers	Only need Windows 98SW
Reading Speed	Depend on Media (6 Mbytes / sec)
Writing Speed	Depend on Media (5 Mbytes / sec)
Operating Voltage	4.5 V ~ 5.5 V
Operating Temp	0 ~ 45 °C

#### 3.2 Submitted Documents

: 731 form, FCC ID label sample, FCC ID label location information,  
External Photos, Internal Photos, Test set-up photos, Operational Description,  
Block diagrams, Schematics, Users Manual



## 4. Measurement Conditions

The power of EUT is supplied through the USB port of Note PC.

### 4.1 Modes of Operation

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

The EUT was connected to Note PC with USB,  
and a Multimedia Card was inserted into EUT.

The Note PC played music stored in the card.

### 4.2 List of Peripherals

Equipment	Manufacturer	Model No.	Serial No.
Notebook PC	LG IBM PC	2681-LK6	FX-P2816
Adapter (for Notebook PC)	Astec Electronics Co., Ltd.	08K8202	11S08K8202Z1 Z6LR38F053
Printer	Epson Precision (Philippines) Inc.	Epson Stylus 830	ELTK014633
MMC	None	RS MULTIMEDIA CARD 256MB	None

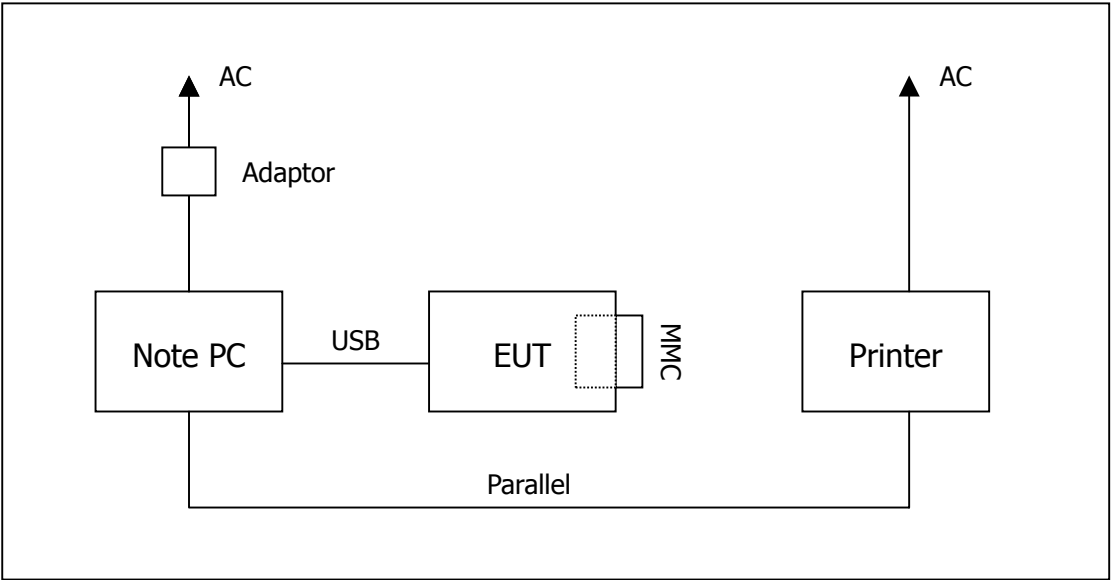


4.3 Type of Used Cables

Description	Length	Type of shield	Manufacturer	Remark
USB cable	1 m	Shield	None	For EUT
Parallel	1.5 m	Unshield	None	For Note PC
Power Cable	2 m	Unshield	None	For Note PC
Power Cable	1.8 m	Unshield	None	For Printer

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 disturbance

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

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
4) Sine wave voltage <sup>1)</sup>	±0.56	K=2	0.28	1	<b>0.50</b>	0.50
5) Pulse amplitude response <sup>1)</sup>	±1.5	Rectangular (√3)	0.87	1	<b>0.87</b>	0.87
6) Pulse repetition rate response <sup>1)</sup>	±1.5	Rectangular (√3)	0.87	1	<b>0.87</b>	0.87
7) Noise floor proximity <sup>1)</sup>	±0.5	K=2	0.25	1	<b>0.25</b>	0.25
8) AF frequency interpolation	±0.3	Rectangular (√3)	0.17	1	<b>0.17</b>	0.17
9) Balance	±0.3	Rectangular (√3)	0.17	1	<b>0.17</b>	0.53
10) AF height deviations	±0.5	Rectangular (√3)	0.29	1	<b>0.29</b>	0.29
11) Phase center location	±0.3	Rectangular (√3)	0.17	1	<b>0.17</b>	0.17
12) Directive difference	+1.0	Rectangular (√3)	0.29	1	<b>0.29</b>	0.29
13) Cross polarization	±0.9	Rectangular (√3)	0.52	1	<b>0.52</b>	0.52
14) Site corrections	±2.6	Rectangular (√3)	1.5	1	<b>1.5</b>	1.63
15) Mismatch (ant-receiver)	±1.06	U-shaped (√2)	0.75	1	<b>0.75</b>	0.67

<sup>1)</sup> Receiver correction

#### 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

$$U = k \times U_c(x_i) = 2 \times 2.37 = 4.74 \text{ dB}$$

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





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

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
4) Sine wave voltage <sup>1)</sup>	±0.56	K=2	0.28	1	<b>0.50</b>	0.50
5) Pulse amplitude response <sup>1)</sup>	±1.5	Rectangular (√3)	0.87	1	<b>0.87</b>	0.87
6) Pulse repetition rate response <sup>1)</sup>	±1.5	Rectangular (√3)	0.87	1	<b>0.87</b>	0.87
7) Noise floor proximity <sup>1)</sup>	±0.5	K=2	0.25	1	<b>0.25</b>	0.25
8) AF frequency interpolation	±0.3	Rectangular (√3)	0.17	1	<b>0.17</b>	0.17
9) Balance	±0.9	Rectangular (√3)	0.52	1	<b>0.52</b>	0.52
10) AF height deviations	±0.3	Rectangular (√3)	0.17	1	<b>0.17</b>	0.17
11) Phase center location	±0.3	Rectangular (√3)	0.17	1	<b>0.17</b>	0.17
12) Directive difference	+1.0	Rectangular (√3)	0.29	1	<b>0.29</b>	0.29
13) Cross polarization	±0.9	Rectangular (√3)	0.52	1	<b>0.52</b>	0.52
14) Site corrections	±2.6	Rectangular (√3)	1.5	1	<b>1.5</b>	1.63
15) Mismatch (ant-receiver)	±1.06	U-shaped (√2)	0.75	1	<b>0.75</b>	0.67

<sup>1)</sup> Receiver correction

**Combined Uncertainty**

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

**Expanded Uncertainty**

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

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

**2) Conducted disturbance**

⊙ **Conducted disturbance from 150 KHz to 30 MHz using a 50 Ω / 50 uH AMN**

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: AMN-receiver	±0.36	Triangular (√6)	0.15	1	<b>0.15</b>	0.05
3) Sine wave voltage <sup>1)</sup>	±0.5	K=2	0.25	1	<b>0.25</b>	0.50
4) Pulse amplitude response <sup>1)</sup>	±1.5	Rectangular (√3)	0.87	1	<b>0.87</b>	0.87
5) Pulse repetition rate response <sup>1)</sup>	±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

<sup>1)</sup> Receiver correction

**Combined Uncertainty**

$$U_c(x_i) = \sqrt{(1)^2 + (2)^2 + (3)^2 + (4)^2 + (5)^2 + (6)^2 + (7)^2 + (8)^2} = \mathbf{1.47}$$

**Expanded uncertainty**

$$U = k \times U_c(x_i) = 2 \times 1.47 = \mathbf{2.94 \text{ dB}}$$

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

⊙ **Reference**

- 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. EMISSION Test**

### **5.1 Conducted Emissions**

**Result:****PASS**

The line-conducted facility is located inside a 2.0 m x 3.6 m x 7.2 m 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 (100 dB 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.

**SK TECH CO., LTD.**

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**Figure 1: Spectral Diagram, LINE – PE**

24 Sep 2004 11:11

**CONDUCTED DISTURBANCE**

EUT: SCR0001

Manuf:

Op Cond:

Operator:

Test Spec:

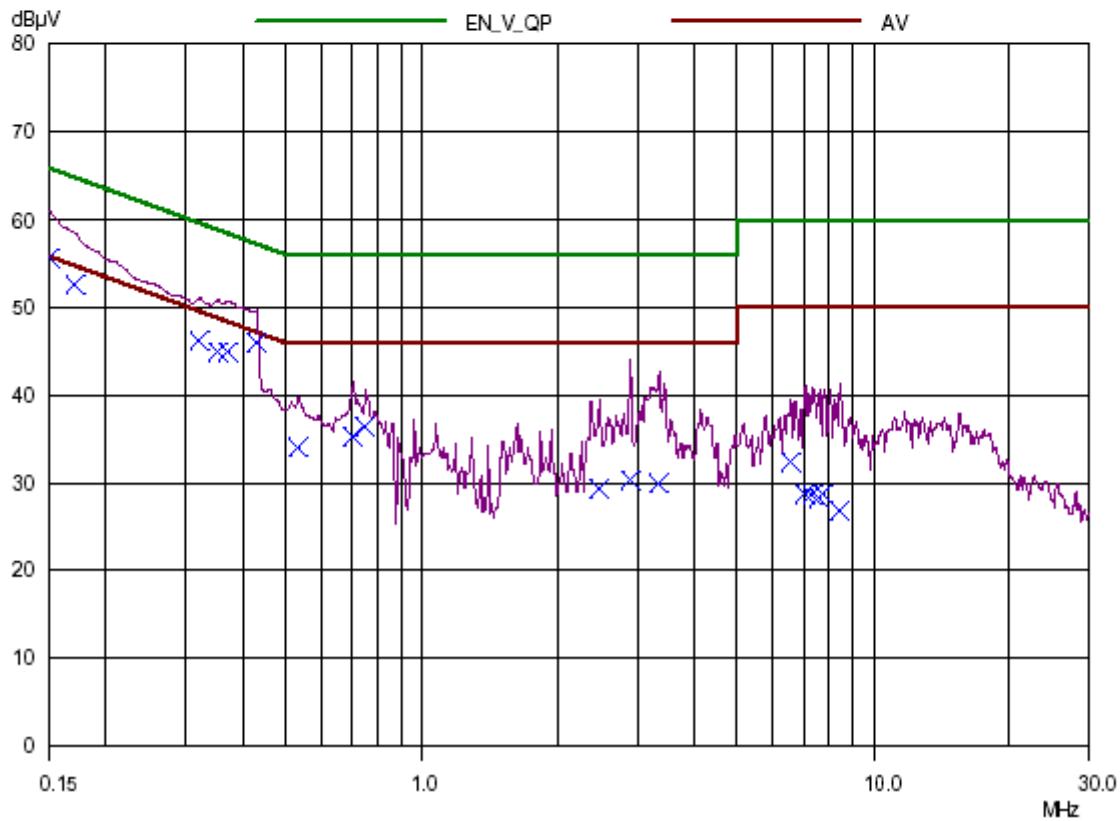
Comment: LINE-PE Quasi-PK

Result File: 0001\_LQ.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:    1 sec  
                                 Peaks:        8  
                                 Acc Margin:   35 dB



**Figure 2: Test Data, LINE – PE**

24 Sep 2004 11:11

**CONDUCTED DISTURBANCE**

EUT: SCR0001

Manuf:

Op Cond:

Operator:

Test Spec:

Comment: LINE-PE Quasi-PK

Result File: 0001\_LQ.dat : New Measurement

Scan Settings (1 Range)

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

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

**Final Measurement Results**

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.15	55.54	66.00	10.46
0.17	52.53	64.96	12.43
0.32	46.17	59.71	13.54
0.35	45.03	58.96	13.93
0.37	44.87	58.50	13.63
0.43	45.89	57.25	11.36
0.53	34.04	56.00	21.96
0.7	35.21	56.00	20.79
0.75	36.34	56.00	19.66
2.46	29.30	56.00	26.70
2.89	30.39	56.00	25.61
3.35	30.03	56.00	25.97
6.55	32.33	60.00	27.67
7.07	28.66	60.00	31.34
7.29	28.74	60.00	31.26
7.61	28.25	60.00	31.75
7.72	28.80	60.00	31.20
8.35999	26.79	60.00	33.21

**- Average**

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.15	30.48	55.92	25.44

**SK TECH CO., LTD.**

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**Figure 3: Spectral Diagram, NEUTRAL – PE**

24 Sep 2004 11:25

**CONDUCTED DISTURBANCE**

EUT: SCR0001

Manuf:

Op Cond:

Operator:

Test Spec:

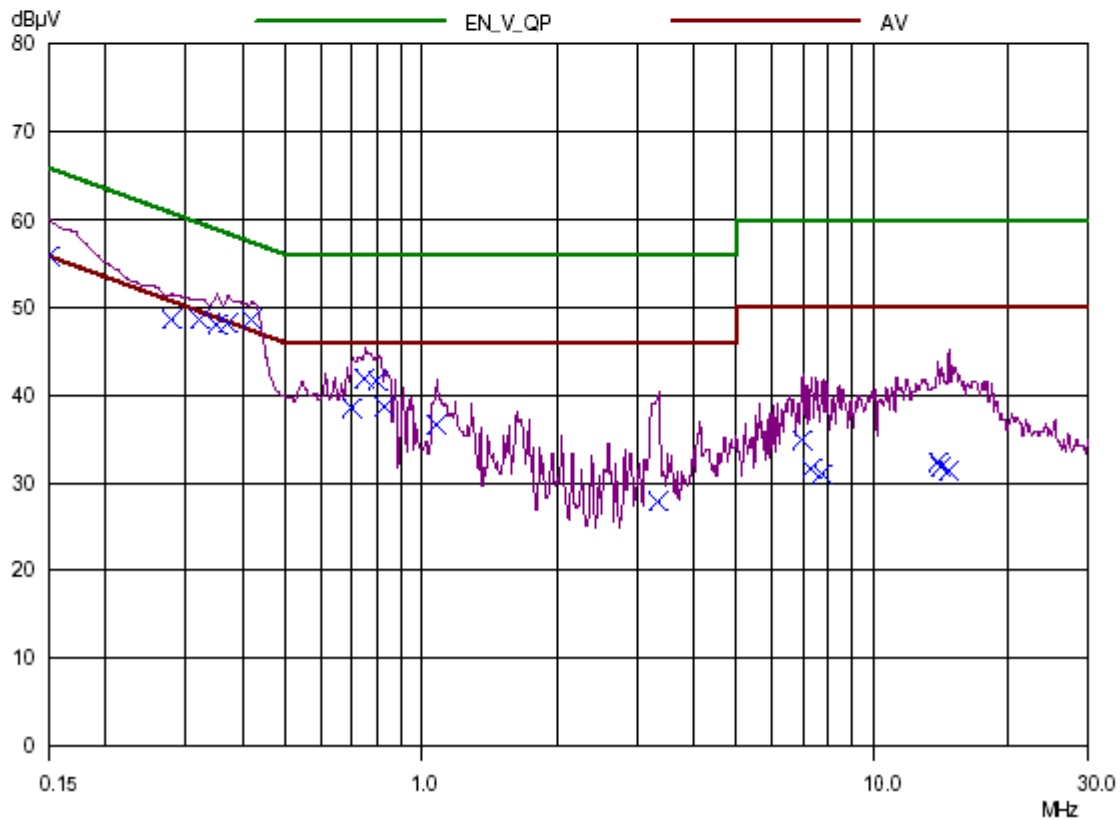
Comment: NEUTRAL-PE Quasi-PK

Result File: 0001\_NQ.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:	1 sec
	Peaks:	8
	Acc Margin:	35 dB



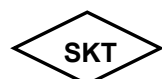


Figure 4: Test Data, NEUTRAL – PE

24 Sep 2004 11:25

## CONDUCTED DISTURBANCE

EUT: SCR0001

Manuf:

Op Cond:

Operator:

Test Spec:

Comment: NEUTRAL-PE Quasi-PK

Result File: 0001\_NQ.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: 1 sec  
                                  Peaks: 8  
                                  Acc Margin: 35 dB

## Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.15	55.86	66.00	10.14
0.28	48.66	60.82	12.16
0.32	48.66	59.71	11.05
0.35	48.04	58.96	10.92
0.37	48.16	58.50	10.34
0.42	48.70	57.45	8.75
0.7	38.52	56.00	17.48
0.75	41.82	56.00	14.18
0.8	41.68	56.00	14.32
0.83	38.72	56.00	17.28
1.08	36.73	56.00	19.27
3.35	27.84	56.00	28.16
7.0	34.92	60.00	25.08
7.32	31.67	60.00	28.33
7.75	30.90	60.00	29.10
13.89	32.34	60.00	27.66
14.21	31.90	60.00	28.10
14.64	31.40	60.00	28.60

## - Average

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.15	19.68	55.92	36.24
0.32	24.17	49.68	25.51
0.35	19.97	48.94	28.97
0.37	23.58	48.48	24.90
0.42	21.59	47.44	25.85



## 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 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 [MHz]	Pol.	Height [m]	Real Reading	Correction Factor		T-Fact [dB]	Data [dBuV/m]	Limits [dBuV/m]	Margin [dB]
				Antenna	Cable				
166.22	H	4.0	8.4	15.4	2.0	17.4	25.8	30.0	4.2
174.57	V	4.0	5.1	15.7	2.1	17.8	22.9	30.0	7.1
241.36	H	4.0	7.5	17.4	2.5	19.9	27.4	37.0	9.6
379.68	H	4.0	6.2	17.8	3.7	21.5	27.7	37.0	9.3
481.31	H	4.0	10.2	18.4	4.4	22.8	33.0	37.0	4.0

**NOTES:**

1. All modes of operation were investigated and the worst-case emission are reported.
2. All other emissions 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