



鴻友科技股份有限公司

Mustek Systems Inc.

新竹市新竹科學園區研發二路 25 號

No. 25, R&D Rd., II Science-Based Industrial Park, Hsin-Chu, Taiwan, R.O.C.

Tel: 886-3-577-9373 Fax: 886-3-578-4139

FCC ID.: HWFA4CIS-USB

EXHIBIT 3

Test Report With Eut Photograph

FCC/AMT 121

DEC 23 1998

**FCC Test Report
Application for Certification
On Behalf Of
Mustek Systems Inc.
Scanner
Model # : 600 CU**

FCC ID : HWFA4CIS-USB

Project Name: S3U10

**Prepared For:
Mustek Systems Inc.
No. 25, R&D Road II, Science-Based
Industrial Park, Hsin-Chu, Taiwan, R.O.C.**

**Report By : QuieTek Corporation
No.75-1, Wang-Yeh Valley, Yung-Hsing
Tsuen, Chiung-Lin, Hsin-Chu County,
Taiwan, R.O.C.
Tel : (03) 592-8858
Fax : (03) 592-8859**

The test results are traceable to the national or international standards
Test results given in this report only relate to the specimen(s) tested or measured.
This report shall not be reproduced excepted in full, without the written consent of QuieTek.
This report must not be used to claim product endorsement by NVLAP any agency of the U.S. Government

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1. Test Report Certification

QTE 98-F011

Applicant : Mustek Systems Inc.

Manufacturer : Mustek Systems Inc.

EUT Description

Model Name : Scanner

Model No. : 600 CU

Serial Number : N/A

FCC ID. : HWFA4CIS-USB

Power : 120V/60Hz AC

MEASUREMENT STANDARD USED :

CISPR 22 Limits and methods of measurement of radio disturbance characteristics of information technology equipment: 1993

MEASUREMENT PROCEDURE USED :

ANSI C63.4 Methods of Measurements of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9kHz to 40GHz. :1992

The device described above was tested by QuieTek Corporation to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the CISPR 22 limits for both radiated and conducted emissions.

The measurement results are contained in this test report and QuieTek Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the CISPR 22 limits.

Sample Received Date : December 9, 1998

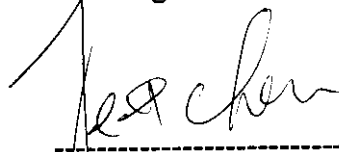
Test Date : December 9, 1998

Documented by : Kathy Lee

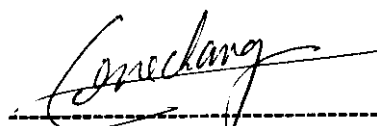
NVLAP®

Test Engineer:

Approve & Authorized Signer:



 Jeff Chen



 Gene Chang

2. General Information

2.1 Production Description

Description	: Scanner
Model Number	: 600 CU
Serial Number	: N/A
FCC ID.	: HWFA4CIS-USB
Applicant	: Mustek Systems Inc.
Address	: No. 25, R&D Road II, Science-Based Industrial Park, Hsin-Chu, Taiwan, R.O.C.
Manufacturer	: Mustek Systems Inc.
Address	: No. 25, R&D Road II, Science-Based Industrial Park, Hsin-Chu, Taiwan, R.O.C. Industrial Park, Hsin-Chu, Taiwan, R.O.C.
Power Adaptor	: SINCHO, M/N: SCP48-120800, S/N: N/A Input: 120V, 60Hz, 18W Output: 12V, 800MA Cable: Non-shielded, Undetectable, 1.8m Bonded a ferrite core
Data Cable	: Shielded, Non-detectable, 0.6m Bonded a ferrite core

Note: The data show in this test report reflects the worst-case data for each operation mode.

2.2 Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards, which have grants) are:

☒ Host Personal Computer

Model Number : PIIL97
 Manufacturer : ASUS
 Serial Number : AS10228
 FCC ID : DoC
 Power Cord : Unshielded, Detachable, 1.8m

☒ Keyboard

Model Number : 6311-TW2C
 Serial Number : N/A
 FCC ID : DoC
 Manufacturer : ACER
 Data Cable : Shielded, Non-detachable, 1.8m

☒ Monitor

Model Number : CM752ET-311
 Serial Number : T8F006364
 FCC ID : DoC
 Manufacturer : HITACHI
 Data Cable : Shielded, Non-Detachable 1.5m
 Power Cord : Shielded, Detachable 1.8m

☒ Printer

Model Number : C2642A
 Serial Number : MY75J1D1D0
 FCC ID : B94C2642X
 Manufacturer : HP
 Data Cable : Shielded, Detachable, 1.2m
 Power Adapter : NMB, M/N: C2175A
 Cable for AC IN: Unshielded, Non-detachable, 0.7m
 Cable for AC Out: Unshielded, Non-detachable, 1.5m

☒ Modem

Model Number : 1414
Serial Number : 980033038
FCC ID : IFAXDM1414
Manufacturer : ACEEX
Data Cable : Shielded, Detachable, 1.5m
Power Adapter : ACCEX, M/N: SCP41-91000A
Cable Output : Shielded, Non-detachable, 1.5m

☒ Modem

Model Number : 1414
Serial Number : 980033041
FCC ID : IFAXDM1414
Manufacturer : ACEEX
Data Cable : Shielded, Detachable, 1.5m
Power Adapter : ACCEX, M/N: SCP41-91000A
Cable Output : Shielded, Non-detachable, 1.5m

☒ Mouse

Model Number : M-S34
Serial Number : LZB75078428
FCC ID : DZL211029
Manufacturer : HP
Data Cable : Shielded, Non-detachable, 1.8m

☒ Joystick

Model Number : JPD110
Serial Number : 9814A15646
FCC ID : DoC
Manufacturer : Maxxtro
Data Cable : Shielded, Non-detachable, 1.7m

2.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4-1992.

Radiated testing was performed at an antenna to EUT distance of 10 meters.

2.4 Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	24-27
Humidity (%RH)	25-75	50-65
Barometric pressure (mmHg)	900-1060	950-1000

Site Description : November 3, 1998 File on
 Federal Communications Commission
 FCC Engineering Laboratory
 7435 Oakland Mills Road
 Columbia, MD 21046
 Reference 31040/SIT1300F2

 NVLAP Lab Code: 200347-0
 United States Department of commerce
 National Institute of Standards and Technology
 National Voluntary Laboratory Accreditation Program

Name of firm : QuieTek Corporation

Site location : No. 75-1, Wang-Yeh Valley, Yung-Hsing Tsuen,
 Chiung-Lin, Hsin-Chu County, Taiwan, R.O.C.

3. Conducted Power Line Test

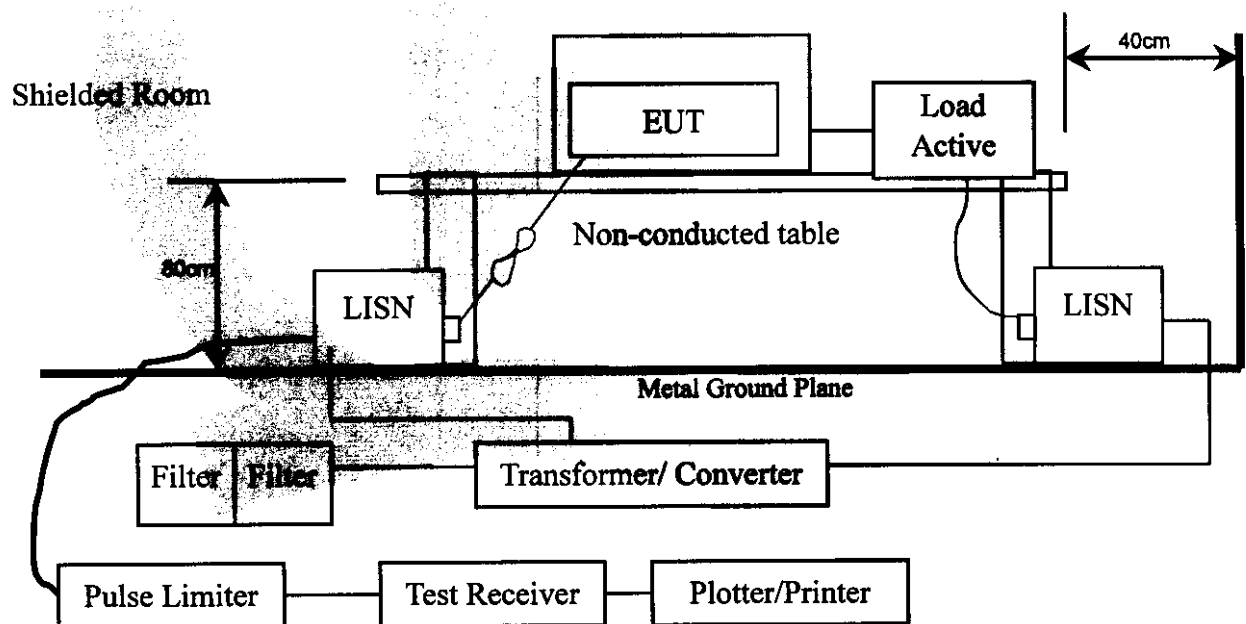
3.1 Test Equipments

The following test equipments are used during the conducted power line tests:

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal..	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 1998	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 1998	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 1998	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	N/A	
5	N0.2 Shielded Room			N/A	

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

3.2 Block Diagram of Test Setup



3.3 Conducted Powerline Emission Limit

➤ CISPR 22 Limits

Frequency MHz	Maximum RF Line Voltage dB(uV)			
	Class A		Class B	
	QUASI-PEAK	AVERAGE	QUASI-PEAK	AVERAGE
0.15 - 0.50	79	66	66-56	56-46
0.50-5.0	73	60	56	46
5.0 - 30	73	60	60	50

Remarks : In the Above Table, the tighter limit applies at the band edges.

3.4 EUT Configuration on Measurement

The equipment which is listed 3.2 are installed on Conducted Power Line Test to meet the Commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

3.5 EUT Exercise Software

The EUT exercise program used during conducted testing was designed to exercise the EUT in a manner similar to a typical use. The exercise sequence is listed as below:

- 3.5.1 Setup the EUT and simulators as shown on 3.2
- 3.5.2 Turn on the power of all equipment.
- 3.5.3 Boot the PC from Hard Disk .
- 3.5.4 PC reads test software from disk and then sent to scanner..
- 3.5.5 The Scanner (EUT) will start to operate and scan the video figure into PC.
- 3.5.6 PC will display "video figure" on monitor.
- 3.5.7 Printer and modem will keep at standby mode during Scanner operation.
- 3.5.8 Repeat the above procedure 3.5.4 to 3.5.7

3.6 Test Procedure

The EUT is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables must be changed according to ANSI C63.4-1992 on conducted measurement.

The bandwidth of the field strength meter (R & S Test Receiver ESCS 30) is set at 10Khz.

The frequency range from 0.15 MHz to 30 MHz is checked.

3.7 Conducted Emission Data

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range for all the test modes. Then the worst modes were reported the following data pages.

The uncertainty is calculated in accordance with NAMAS NIS 81. The total uncertainty for this test is as follows:

- Uncertainty in the field strength measured: $< \pm 2.0$ dB

CONDUCTED EMISSION DATA

Date of Test	December 9, 1998	Temperature	25 °C
EUT	Scanner	Humidity	61 %
Test Mode	Normal	Display Pattern	Video Figure
Detector Mode	Quasi-Peak & Average		

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
MHz	Loss	Factor	Line1	Line1	
	dB	dB	dBuV	dBuV	dBuV
3.759	0.18	0.16	18.13	18.47	56.00
5.264	0.21	0.17	25.25	25.63	60.00
6.016	0.22	0.18	27.06	27.46	60.00
6.765	0.23	0.18	30.39	30.81	60.00
12.029	0.30	0.27	33.42	33.99	60.00
* 24.057	0.38	0.52	33.24	34.13	60.00

Average:

3.759	0.18	0.16	17.36	17.70	46.00
5.264	0.21	0.17	24.42	24.80	50.00
6.016	0.22	0.18	17.70	18.10	50.00
6.765	0.23	0.18	29.68	30.10	50.00
12.029	0.30	0.27	24.83	25.40	50.00
24.057	0.38	0.52	25.41	26.30	50.00

Remarks :

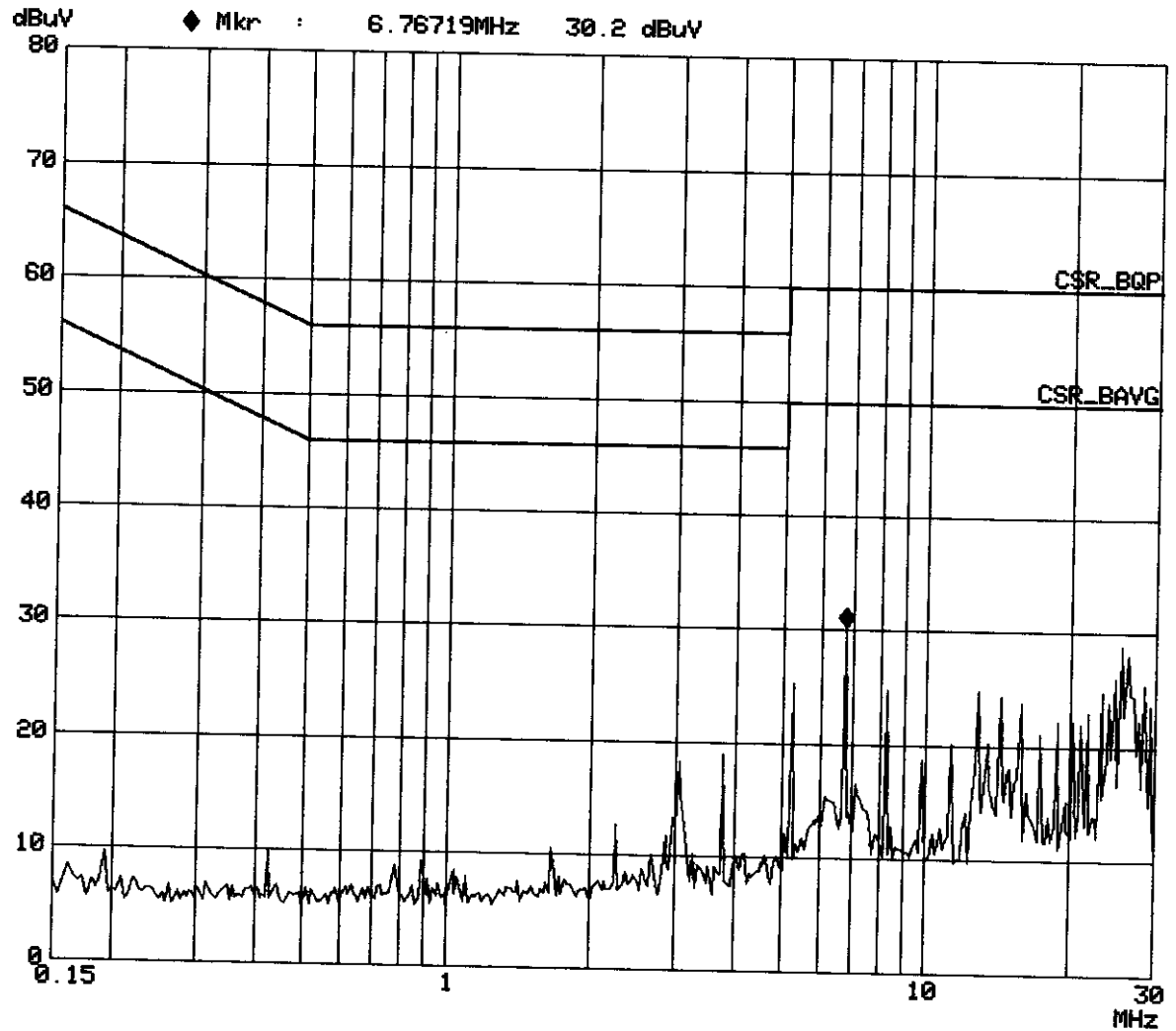
1. " * " means that this data is the worse emission level.
2. All readings are Quasi-peak and average values.

Attached individual pages of peak scan curve data sheets.

Manuf: MUSTEK CORPORATION
Operator: Jeff
Test Spec: AC 120V/60Hz
Comment: SINCHO ADAPTOR M/N:SCP48-120800
LINE 1
File name: CISPR22B.SPC
Date: 09. Dec 98 14:28

Overview Scan Settings (1 Range)

Frequencies			Receiver Settings					
Start	Stop	Step	IF	BW	Detector	M-Time	Atten	Preamp
150k	30M	3.90625k	9k		PK	0.05ms	0dBLN	OFF



CONDUCTED EMISSION DATA

Date of Test	: December 9, 1998	Temperature	: 25 °C
EUT	: Scanner	Humidity	: 61 %
Test Mode	: Normal	Display Pattern	: Video Figure
Detector Mode	: Quasi-Peak & Average		

Frequency	Cable	LISN	Reading Level	Measurement Level	Limits
MHz	Loss	Factor	Line2	Line2	
	dB	dB	dBuV	dBuV	dBuV
3.759	0.18	0.16	16.39	16.73	56.00
5.262	0.21	0.17	24.52	24.90	60.00
6.012	0.22	0.18	26.62	27.02	60.00
6.767	0.23	0.18	30.43	30.85	60.00
12.027	0.30	0.27	32.14	32.70	60.00
* 24.055	0.38	0.52	32.56	33.45	60.00

Average:

3.759	0.18	0.16	15.36	15.70	46.00
5.262	0.21	0.17	23.32	23.70	50.00
6.012	0.22	0.18	16.50	16.90	50.00
6.767	0.23	0.18	29.68	30.10	50.00
12.027	0.30	0.27	22.64	23.20	50.00
24.055	0.38	0.52	25.41	26.30	50.00

Remarks :

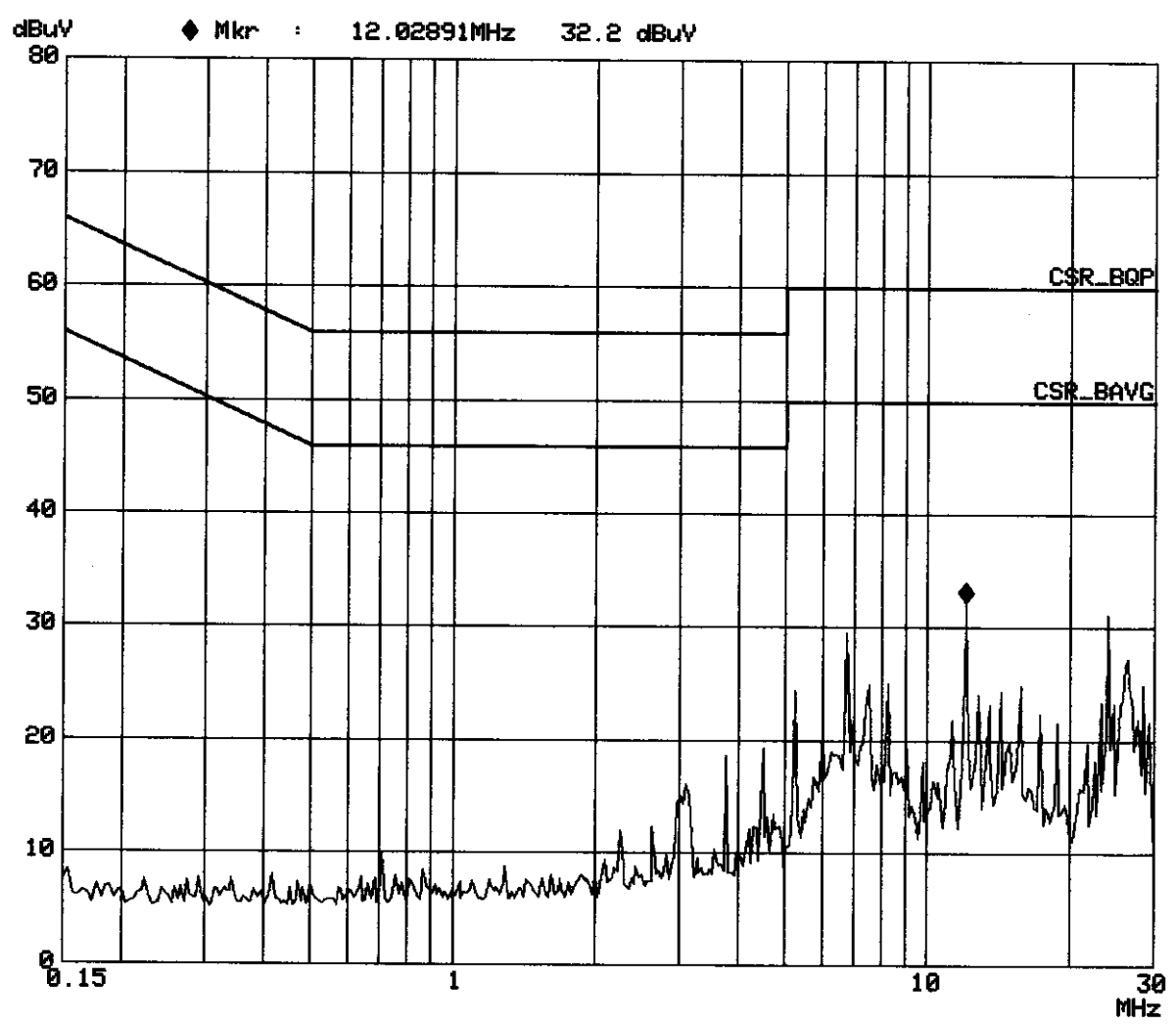
1. " * " Means that this data is the worse emission level.
2. All readings are Quasi-peak and average values.

Attached individual pages of peak scan curve data sheets.

LOT: SCANNER M/N:800 CO
Manuf: MUSTEK CORPORATION
Operator: Jeff
Test Spec: AC 120V/60Hz
Comment: SINCHO ADAPTOR M/N:SCP48-120800
LINE 2
File name: CISPR22B.SPC
Date: 09. Dec 98 14:30

Overview Scan Settings (1 Range)

----- Frequencies -----			----- Receiver Settings -----					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	
150k	30M	3.90625k	9k	PK	0.05ms	0dBLN	OFF	



4. Radiation Emission Test

QTE98-F011

4.1 Test Equipment

The following test equipments are used during the radiated emission tests:

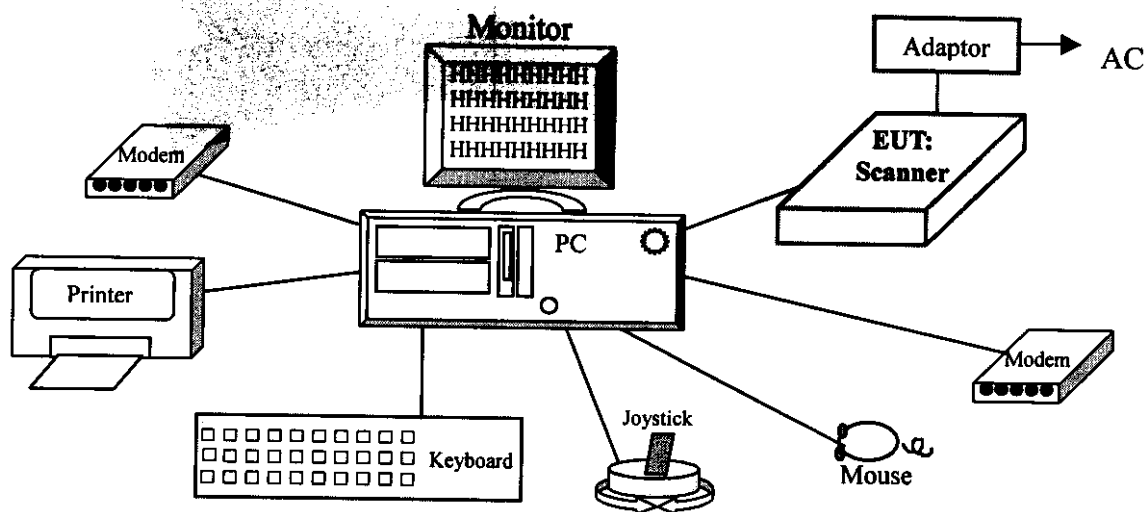
Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
SITE # 1	X	Test Receiver	R & S	ESCS 30 / 825442/14	May, 1998
		Spectrum Analyzer	Advantest	R3261C / 71720140	May, 1998
		Pre-Amplifier	HP	8447D/3307A01812	May, 1998
	X	Bilog Antenna	Chase	CBL6112B / 12452	Sep., 1998
	X	Horn Antenna	EM	EM6917 / 103325	May, 1998
SITE # 2	X	Test Receiver	R & S	ESCS 30 / 825442/17	May, 1998
		Spectrum Analyzer	Advantest	R3261C / 71720609	May, 1998
		Pre-Amplifier	HP	8447D/3307A01814	May, 1998
	X	Bilog Antenna	Chase	CBL6112B / 2455	Sep., 1998
	X	Horn Antenna	EM	EM6917 / 103325	May, 1998

Note: 1. All equipment upon which need to calibrated are with calibration period of 1 year.
2. Mark "X" test instruments are used to measure the final test results.

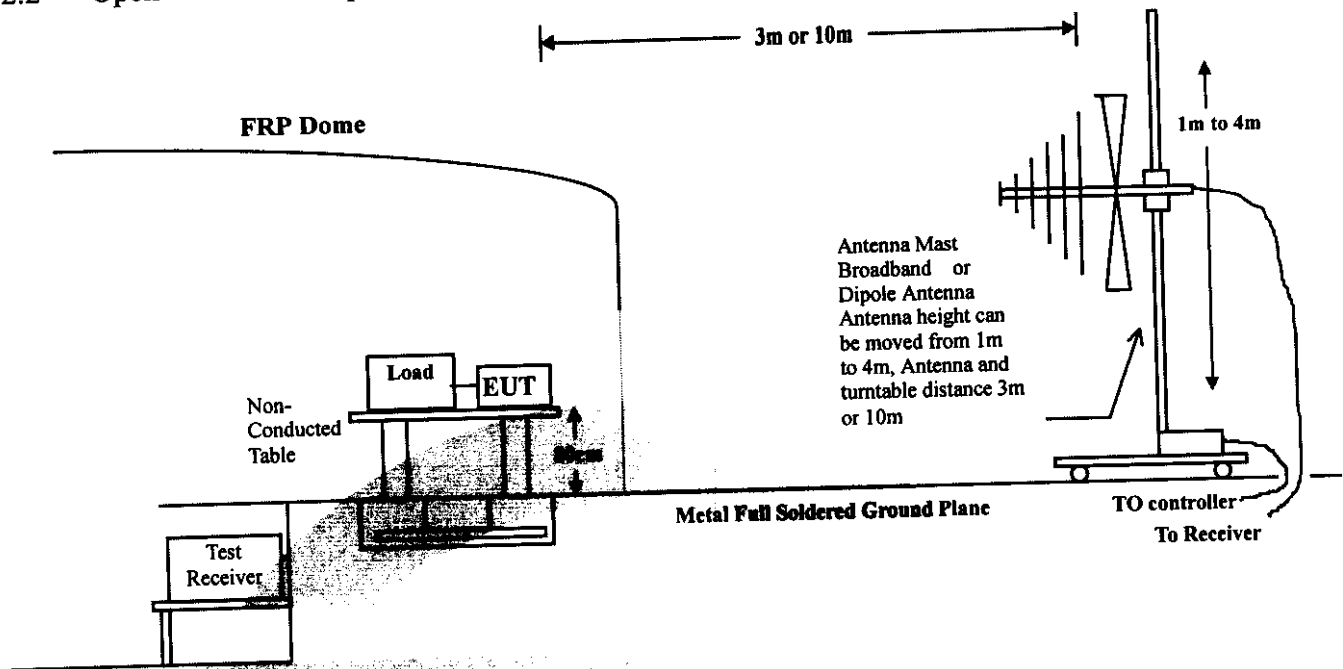
2. Test Site : ☒ Site #1 , ☐ Site #2

4.2 Test Setup

4.2.1 Block Diagram of Connections between EUT and simulators



4.2.2 Open Test Site Setup Diagram



4.3 Radiated Emission Limit

➤ CISPR 22 Limits:

Frequency MHz	Class A		Class B	
	Distance (m)	Limits (dBuV/m)	Distance (m)	Limits (dBuV/m)
30 - 230	10	40	10	30
230 - 1000	10	47	10	37

- Remark: 1. The higher limit shall apply at the edge between two frequency bands.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

4.4 EUT Configuration

The equipments which is listed 4.2.1 are installed on Radiated Emission Test to meet the Commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

4.5 Operating Condition of EUT

Same as Conducted Power Line Test which is listed in 3.5.

4.6 Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 10 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Broadband antenna (calibrated bi-log and horn antenna) are used as a receiving antenna.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4-1992 on radiated measurement.

The bandwidth below 1Ghz setting on the field strength meter (R&S Test Receiver ESCS 30) is 120 KHz, above 1Ghz are 1 MHz.

The frequency range from 30Mhz to 1000Mhz is checked.

4.7 Radiated Emission Data

The initial step in collecting radiated data is a spectrum analyzer peak scan of the measurement range for all the test modes. Then the worst modes were reported the following data pages.

The uncertainty is calculated in accordance with Nemas NIS 81. The total uncertainty for this test is as follows:
 • Uncertainty in the field strength measured: $< \pm 4.0$ dB

Radiated Emission Data

Date of Test	December 9, 1998	Temperature	25 °C
EUT	Scanner	Humidity	61 %
Test Mode	Normal	Display Pattern	Video Figure

Working Cond.:

Display Pattern:

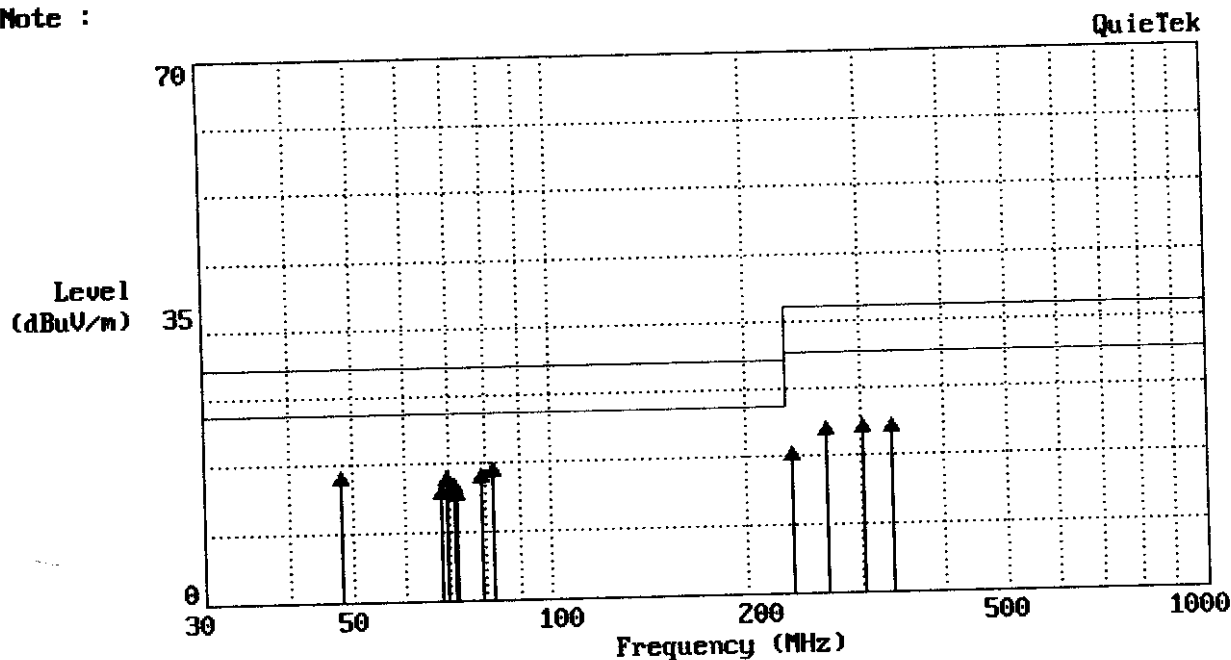
Frequency MHz	Cable Loss dB	Ant Factor dB/m	Reading Level Horizontal dBuV/m	Emission Level Horizontal dBuV/m	Limits dBuV/m	Ant Pos cm	Table Pos deg
48.025	1.33	8.92	6.71	16.96	30.00	401	180
68.395	1.52	6.19	7.26	14.97	30.00	401	73
69.900	1.53	6.52	8.54	16.59	30.00	401	73
71.402	1.55	6.94	7.24	15.74	30.00	401	113
72.012	1.55	6.94	6.11	14.61	30.00	401	85
78.920	1.62	7.71	7.55	16.87	30.00	401	83
* 81.920	1.5	8.49		17.62	30.00		83
234.493	3.11	10.71	4.98	18.80	37.00	401	203
264.464	3.41	13.91	4.83	22.15	37.00	401	166
300.586	3.76	13.36	5.21	22.32	37.00	401	31
333.714	3.93	13.66	4.67	22.26	37.00	401	203

Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is the worse emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss

File#: 980C001.EMI - 3
 Site : Quietek
 Limit: CISPR CLASS-B 10m
 EUT : Scanner 600 CU
 Power: AC 120V/60Hz
 Note :

Discrete Date : 12-09,1998 Wed Time: 05:43:03 pm
 Probe : QTKANT-01A Horizontal
 Margin: 6 dB
 Std :
 Trace :



File#: 980C001.EMI - 3
 Site : Quietek
 Limit: CISPR CLASS-B 10m
 EUT : Scanner 600 CU
 Power: AC 120V/60Hz
 Note :

Discrete Date : 12-09,1998 Wed Time: 05:43:03 pm
 Probe : QTKANT-01A Horizontal
 Margin: 6 dB

Frequency	Measure Level	Reading Level	Over Limit	Limit	Probe Factor	Cable Loss	Amp Factor	Ant Pos	Tabl Pos
MHz	dB	dB	dB	dB	dB	dB	dB	cm	deg
48.025	16.96	6.71	-13.04	30.00	8.92	1.33	0.00	401	180
68.395	14.97	7.26	-15.03	30.00	6.19	1.52	0.00	401	73
69.900	16.59	8.54	-13.41	30.00	6.52	1.53	0.00	401	73
71.402	15.74	7.24	-14.26	30.00	6.94	1.55	0.00	401	113
72.012	14.61	6.11	-15.39	30.00	6.94	1.55	0.00	401	85
78.920	16.87	7.55	-13.13	30.00	7.71	1.62	0.00	401	83
81.920	17.62	7.49	-12.38	30.00	8.49	1.65	0.00	401	83
234.493	18.80	4.98	-18.20	37.00	10.71	3.11	0.00	401	203
264.464	22.15	4.83	-14.85	37.00	13.91	3.41	0.00	401	166
300.586	22.32	5.21	-14.68	37.00	13.36	3.76	0.00	401	31
333.714	22.26	4.67	-14.74	37.00	13.66	3.93	0.00	401	203

Radiated Emission Data

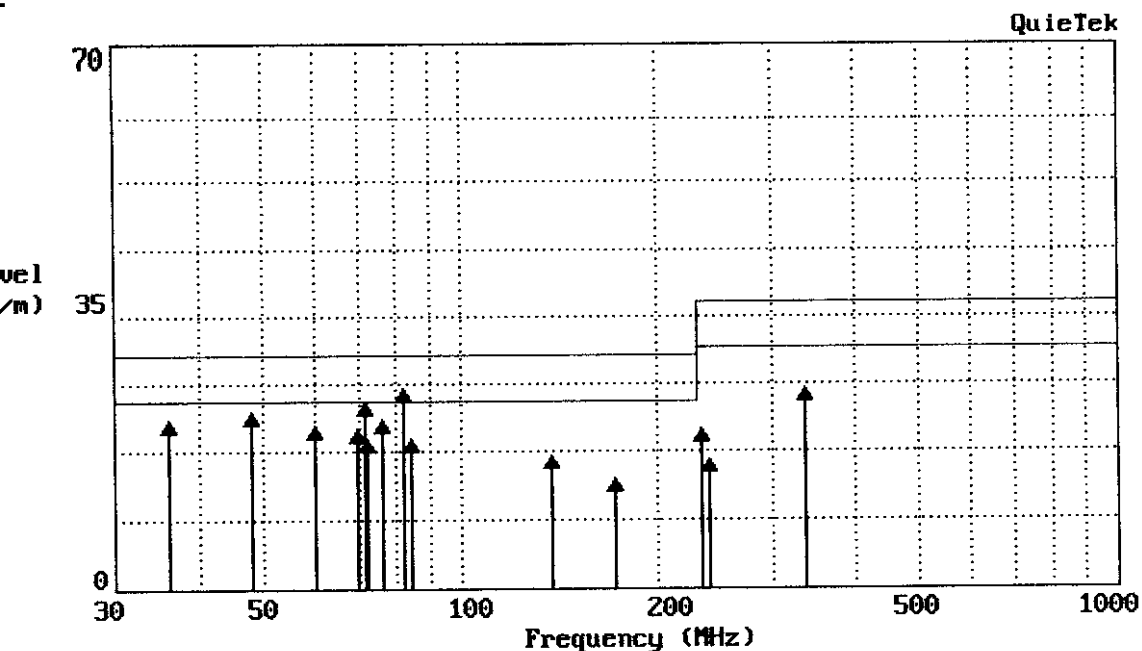
Date of Test	:	December 9, 1998	Temperature	:	25 °C
EUT	:	Scanner	Humidity	:	61 %
Test Mode	:	Normal	Display Pattern	:	Video Figure

Frequency	Cable	Ant	Reading Level	Emission Level	Limits	Ant	Table
MHz	Loss	Factor	Vertical	Vertical		Pos	Pos
	dB	dB/m	dBuV/m	dBuV/m	dBuV/m	cm	deg
35.997	1.21	14.68	6.02	21.90	30.00	99	134
47.999	1.33	8.03	13.57	22.93	30.00	99	101
59.999	1.44	6.00	13.59	21.03	30.00	99	33
69.899	1.53	5.38	13.71	20.63	30.00	99	81
71.401	1.55	6.10	16.37	24.02	30.00	99	81
72.014	1.55	6.10	11.79	19.44	30.00	99	45
75.913	1.59	7.23	13.09	21.91	30.00	99	81
* 81.998	1.5	7.53		25.71	30.00	99	151
83.999	1.67	8.26	9.48	19.41	30.00	99	140
137.462	2.19	11.35	3.58	17.12	30.00	99	182
171.823	2.51	9.26	2.29	14.07	30.00	99	153
232.960	3.11	10.51	7.08	20.70	37.00	99	165
240.045	3.17	11.22	2.30	16.69	37.00	99	203
336.045	3.94	14.63	7.26	25.83	37.00	99	90

Remarks:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " * ", means this data is the worse emission level.
3. Emission Level = Reading Level + Antenna Factor + Cable loss

980C001.EMI - 4 Discrete Date : 12-09,1998 Wed Time: 05:43:35 pm
 Quietek Probe : QTKANT-01A Vertical
 CISPR CLASS-B 10m Margin: 6 dB
 Scanner 600 CU Std :
 AC 120V/60Hz Trace :



: 980C001.EMI - 4 Discrete Date : 12-09,1998 Wed Time:05:43:35 pm
 : Quietek Probe : QTKANT-01A Vertical
 t: CISPR CLASS-B 10m Margin: 6 dB
 : Scanner 600 CU
 r: AC 120V/60Hz
 e :

Quietek

Frequency	Measure Level	Reading Level	Over Limit	Limit	Probe Factor	Cable Loss	Amp Factor	Ant Pos	Tabl Pos
MHz	dB	dB	dB	dB	dB	dB	dB	cm	deg
35.997	21.90	6.02	-8.10	30.00	14.68	1.21	0.00	99	134
47.999	22.93	13.57	-7.07	30.00	8.03	1.33	0.00	99	101
59.999	21.03	13.59	-8.97	30.00	6.00	1.44	0.00	99	33
69.899	20.63	13.71	-9.37	30.00	5.38	1.53	0.00	99	81
71.401	24.02	16.37	-5.98	30.00	6.10	1.55	0.00	99	81
72.014	19.44	11.79	-10.56	30.00	6.10	1.55	0.00	99	45
75.913	21.91	13.09	-8.09	30.00	7.23	1.59	0.00	99	81
81.998	25.71	16.52	-4.29	30.00	7.53	1.65	0.00	99	151
83.999	19.41	9.48	-10.59	30.00	8.26	1.67	0.00	99	140
137.462	17.12	3.58	-12.88	30.00	11.35	2.19	0.00	99	182
171.823	14.07	2.29	-15.93	30.00	9.26	2.51	0.00	99	153
232.960	20.70	7.08	-16.30	37.00	10.51	3.11	0.00	99	165
240.045	16.69	2.30	-20.31	37.00	11.22	3.17	0.00	99	203
336.045	25.83	7.26	-11.17	37.00	14.63	3.94	0.00	99	90

5. Summarization of Test Results

The test results in the conducted and radiated emission were performed according to the requirements of measurement standard and process. QuieTek Corporation is assumed full responsibility for the accuracy and completeness of these measurements. The summarization of the worst value of conducted and radiated emission test is described as below:

➤ The worse value of Conducted Emission Test

Frequency (MHz)	Line	Measurement Level dB(uV)	Limit Level dB(uV)	Comment
24.057	L1	34.13	60.00	Pass
24.055	L2	33.45	60.00	Pass

➤ The worse value of Radiated Emission Test

Frequency (MHz)	Polarization	Measurement Level dB(uV)	Limit Level dB(uV)	Comment
81.920	H	17.62	30.00	Pass
81.998	V	25.71	30.00	Pass

6. EMI Reduction Method During Compliance Testing

No modification was made during testing.

