EMC

TEST REPORT

REPORT NO. : CE87100804
MODEL NO. : SBC-598, SBC-492
DATE OF TEST : Oct. 8 ~ Oct. 21, 1998

PREPARED FOR: AAEON TECHNOLOGY INC.

ADDRESS : 1F, NO. 6, ALLEY 6, LANE 45, PAO-HSIN RD.,
HSIN-TIEN CITY, TAIPEI, TAIWAN, R.O.C.

PREPARED BY:

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Accredited Laboratory

ADVANCE DATA TECHNOLOGY CORPORATION
12F, NO.1, SEC.4, NAN-KING EAST RD.,
TAIPEI, TAIWAN, R.O.C.

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1. CERTIFICATION

Issue date: Oct. 22, 1998

Product	:	CPU BOARD	
Trade Name	:	AAEON	
Model No.	:	SBC-598, SBC-492	
Applicant	:	AAEON TECHNOLOGY INC.	
Standard	:	EN 55022:1994+A1: 1995+A2: 1997, Class B	**EN 50082-1:1992** IEC 801-2: 1984 IEC 801-3:1984 IEC 801-4:1988

We hereby certify that one sample of the designation has been tested in our facility from Oct. 8 to Oct. 21, 1998. The test record, data evaluation and Equipment Under Test (EUT) configurations represent herein are true and accurate representation of the measurements of the sample's EMC characteristics under the conditions herein specified.

CHECKED BY : Ariel Hsieh , DATE: 10/22/98
(Ariel Hsieh)

APPROVED BY : Mike Su , DATE: 10/22/98
(Mike Su)

ADVANCE DATA TECHNOLOGY CORPORATION

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product	:	CPU BOARD
Model No.	:	SBC-598, SBC-492
Power Supply	:	DC 5V (from PC)
Data Cable	:	N/A

Note: The EUT has two model names, which are identical to each other in all aspects except for the following:

- MODEL: **SBC-598**: 586 mainboard, Pentium 233 MHz, 1024x768 256 color, with USB port.
- MODEL: **SBC-492**: 486 mainboard, Pentium 133 MHz on board, 1024x768 256 color, without USB port.

Both the above models are selected as the representative during the test and their data are recorded individually as mode 1 & 2 in this report.

- MODE **1**: Model : SBC-598
- MODE **2**: Model : SBC-492

For more detailed features description, please refer to manufacturer's specification or User's Manual.

2.2 GENERAL DESCRIPTION OF APPLIED STANDARD

The EUT is a kind of Information Technology Equipment, which could be used in industrial area and according to the manufacturer's specifications, it was tested according to the following standards:

EN 55 022:1994+A1: 1995+A2: 1997, Class B

EN 50082-1:1992
IEC 801-2: 1984
IEC 801-3:1984
IEC 801-4:1988

All tests are performed and recorded as per above standards.

2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories are used to form representative test configuration during the tests.

FOR EMISSION TEST

For MODEL: SBC-598

No	Product	Brand	Model No.	Serial No.	I/O Cable
1	COLOR MONITOR	HP	D2846	JP74912550	Shielded Signal (1.5m) Nonshielded Power (1.8m)
2	PRINTER	HP	2225C+	2949S63865	Shielded Signal (2.0m) Nonshielded Power (1.8m)
3	MODEM	ACEEX	1414	980020531	Shielded Signal (1.2m) Nonshielded Power (1.8m)
4	KEYBOARD	FORWARD	FDA-104GA	FDKB8110111	Shielded Signal (1.4m)
5	USB KEYBOARD	BTC	7932	D7A140012	Shielded Signal (1.8m)
6	MOUSE	COMSYS	MOUSE 1300	507009781	Shielded Signal (1.5m)
7	USB MOUSE	DEXIN	A3U800A	N/A	Shielded Signal (1.5m)

For MODEL: SBC-492

No	Product	Brand	Model No.	Serial No.	I/O Cable
1	COLOR MONITOR	HP	D2846	JP74912250	Shielded Signal (1.5m) Nonshielded Power (1.8m)
2	PRINTER	HP	2225C+	2949S63865	Shielded Signal (2.0m) Nonshielded Power (1.8m)
3	MODEM	ACEEX	1414	980020531	Shielded Signal (1.2m) Nonshielded Power (1.8m)
4	KEYBOARD	FORWARD	FDA-104GA	FDKB8110111	Shielded Signal (1.4m)
5	MOUSE	LOGITECH	M-M30-9F	LTR53500789	Shielded Signal (1.8m)

FOR IMMUNITY TEST

For MODEL: SBC-598

No	Product	Brand	Model No.	Serial No.	I/O Cable
1	COLOR MONITOR	ADI	937G	649015T00102093A	Shielded Signal (1.5m) Nonshielded Power (1.8m)
2	PRINTER	HP	C2145A	SG5N1601K	Shielded Signal (1.2m) Nonshielded Power (1.8m)
3	MODEM	GVC	F-1128V1R6	96-191-113003	Shielded Signal (1.2m) Nonshielded Power (1.5m)
4	KEYBOARD	ACER	6311	K6355122516	Shielded Signal (1.5m)
5	USB KEYBOARD	BTC	7932	D7A140012	Shielded Signal (1.8m)
6	MOUSE	COMSYS	MOUSE 1300	507009797	Shielded Signal (1.4m)
7	USB MOUSE	AGILER	2900	N/A	Shielded Signal (1.8m)

For MODEL: SBC-492

No	Product	Brand	Model No.	Serial No.	I/O Cable
1	COLOR MONITOR	ADI	937G	649015T00102093A	Shielded Signal (1.5m) Nonshielded Power (1.8m)
2	PRINTER	HP	C2145A	SG5N1601K	Shielded Signal (1.2m) Nonshielded Power (1.8m)
3	MODEM	GVC	F-1128V1R6	96-191-113003	Shielded Signal (1.2m) Nonshielded Power (1.5m)
4	KEYBOARD	ACER	6311	K6355122516	Shielded Signal (1.5m)
5	MOUSE	COMSYS	MOUSE 1300	507009797	Shielded Signal (1.4m)

2.4 TEST SETUP

Please refer to the photos of test configuration in Item 6.

3. TEST INSTRUMENTS

3.1 TEST INSTRUMENTS (EMISSION)

RADIATED EMISSION MEASUREMENT

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
HP Spectrum Analyzer	8590L	3544A01176	April 28, 1999
HP Preamplifier	8447D	2944A08485	Oct. 28, 1998
ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Aug. 27, 1999
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 28, 1998
CHASE BILOG Antenna	CBL6112A	2221	Aug. 10, 1999
EMCO Turn Table	1060	1115	N/A
SHOSHIN Tower	AP-4701	A6Y005	N/A
Open Field Test Site	Site 5	ADT-R05	Aug. 9, 1999

Note: 1. The measurement uncertainty is less than +/- 3dB, which is calculated as per NAMA's document NIS81.

2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.

CONDUCTED EMISSION MEASUREMENT

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
ROHDE & SCHWARZ Test Receiver	ESH3	893495/006	July 15, 1999
ROHDE & SCHWARZ Spectrum Monitor	EZM	893787/013	July 16, 1999
ROHDE & SCHWARZ Artificial Mains Network	ESH3-Z5	839135/006	July 14, 1999
EMCO-L.I.S.N.	3825/2	9204-1964	July 14, 1999
Shielded Room	Site 2	ADT-C02	N/A

Note: 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per NAMA's document NIS81.

2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.

3.2 TEST INSTRUMENTS (IMMUNITY)

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
KeyTek, ESD Test System	2000	9105240/41	Aug. 9, 1999
KeyTek, ESD Simulator	MZ-15/EC	9507277	April 15, 1999
KeyTek, EFT Generator	CE-40	9508d257	Sept. 8, 1999
KeyTek, Capacitive Clamp	CE-40-CCL	9508259	Sept. 8, 1999
ROHDE & SCHWARZ Signal Generator	SMY01	840490/009	Sept. 30, 1999
KALMUS Power Amplifier	LA1000V	091995-1	N/A
KALMUS Power Amplifier	757LC	091995-2	N/A
HOLADAY Field Probe	HI-4422	89915	Oct. 11, 1999
EMCO BiconiLog Antenna	3141	1001	N/A
COMTEST Compact Full Anechoic Chamber (7x3x3 m)	CFAC	ADT-S01	Aug. 4, 1999

Note: The calibration interval of the above test instruments is 12 months.
And the calibrations are traceable to NML/ROC and NIST/USA.

4. TEST RESULTS (EMISSION)

4.1 RADIO DISTURBANCE

Product Family Standard	:	EN 55022+A1: 1995+A2: 1997, Class B
Frequency Range	:	0.15 - 30 MHz (Conducted Emission)
		30 - 1000 MHz (Radiated Emission)
Input Voltage	:	230 Vac, 50 Hz (to PC)
Temperature	:	24 ℃
Humidity	:	51 %
Atmospheric Pressure	:	1000 mbar

TEST RESULT	Remarks
PASS	Minimum passing margin of conducted emission: -16.6 dB at 0.304 MHz Minimum passing margin of radiated emission: -12.2 dB at 467.78 MHz

4.1.1 EUT OPERATION CONDITION

1. Turn on the power of all equipments.
2. Industrial PC reads a test program to enable all functions.
3. Industrial PC reads and writes messages from HDD.
4. Industrial PC sends "H" messages to monitor and monitor displays "H" patterns on screen.
5. Industrial PC sends "H" messages to modem.
6. Industrial PC sends "H" messages to printer and the printer prints them on paper.
7. Repeat steps 2-7.

4.1.2 TEST DATA OF CONDUCTED EMISSION (A)

EUT: **CPU BOARD** MODEL: **SBC-598**

MODE: 1

6 dB Bandwidth: 10 kHz

TEST PERSONNEL: Jackey Chang

Freq.	L Level		N Level		Limit		Margin [dB (μV)]			
[MHz]	[dB (μV)]		[dB (μV)]		[dB (μV)]		L		N	
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV
0.203	44.10	-	45.20	-	63.46	53.46	-17.7	-	-17.2	-
0.280	43.20	-	43.70	-	60.86	50.86	-19.5	-	-19.0	-
0.595	36.50	-	37.00	-	56.00	46.00	-19.4	-	-21.1	-
2.781	36.60	-	34.90	-	56.00	46.00	-26.8	-	-27.8	-
14.204	33.20	-	32.20	-	60.00	50.00	-28.4	-	-26.8	-
23.986	31.60	-	33.20	-	60.00	50.00	-19.4	-	-18.3	-

Remarks:
1. "*": Undetectable
2. Q.P. and AV. are abbreviations of quasi-peak and average individually.
3. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
4. The emission levels of other frequencies were very low against the limit.
5. Margin value = Emission level - Limit value

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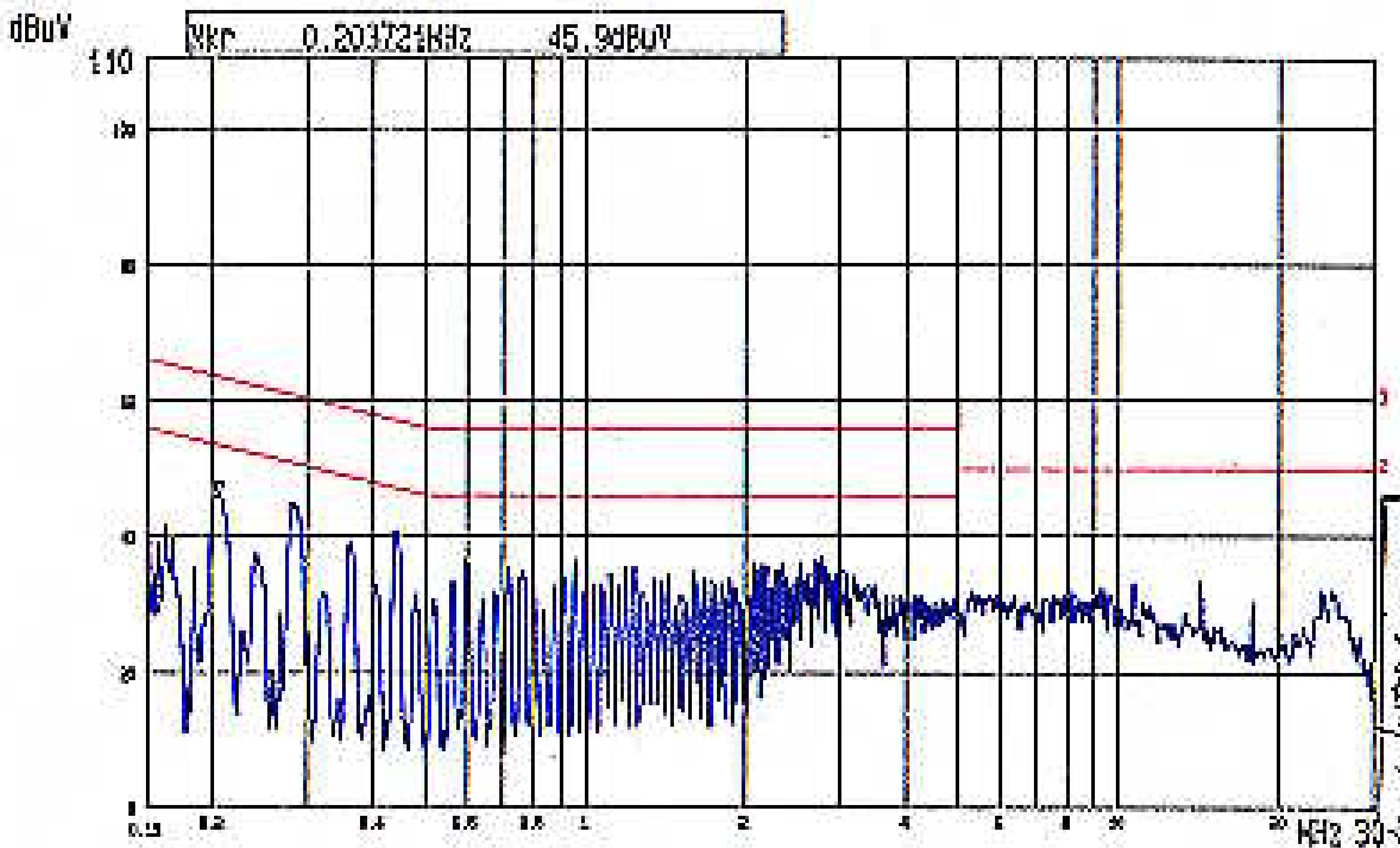
Tested by



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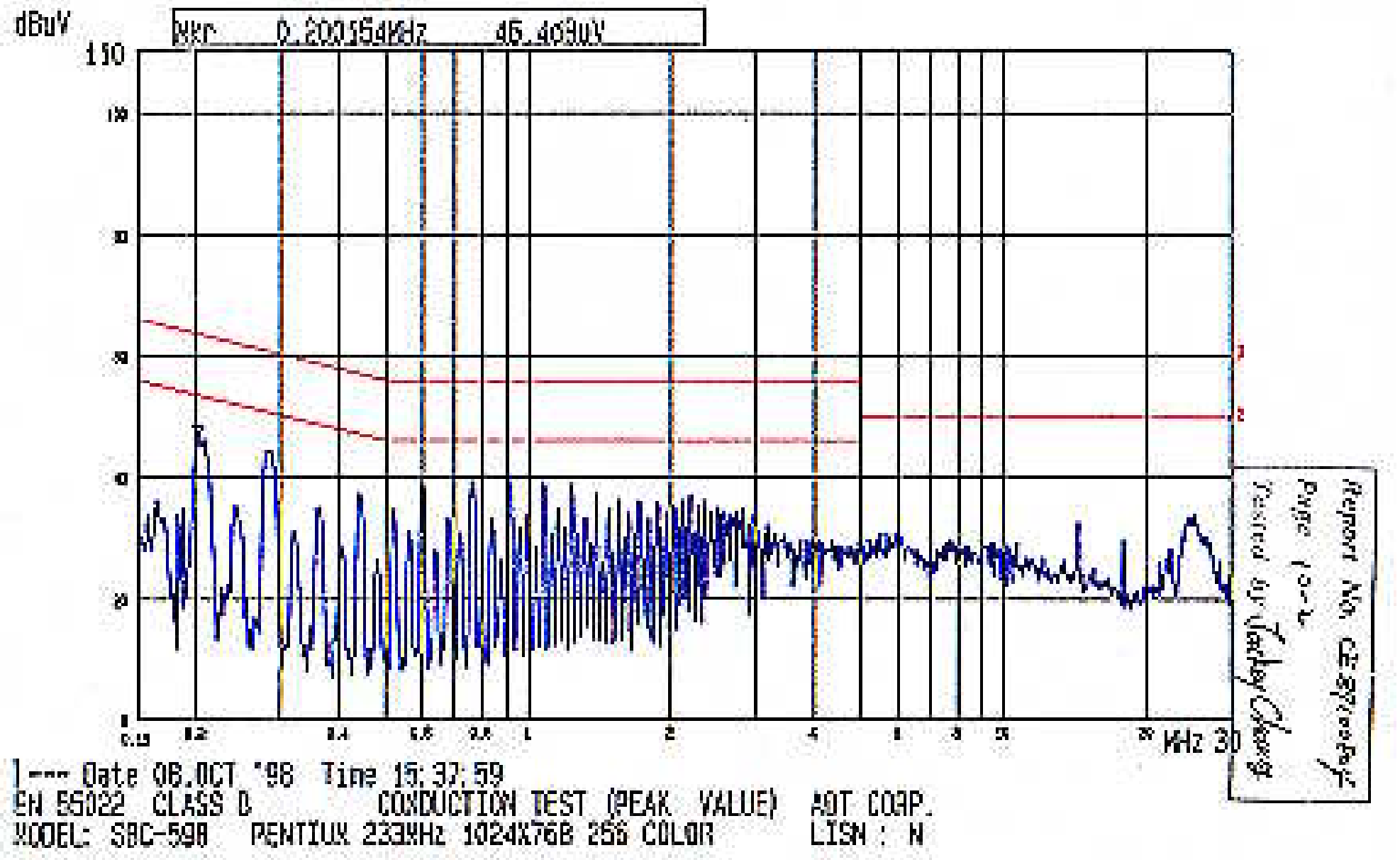
MODEL: SBC-598 PENTIUM 233MHz 1024X768 256 COLOR LISN : L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150
100
80
60
40
20
0
0.15
0.2
0.4
0.6
0.8
1
2
4
6
8
10
20
MHz 30
--- Date 08.OCT '98 Time 15:32:59
EN 55022 CLASS B CONDUCTION TEST (PEAK VALUE) ADT CORP.
MODEL: SBC-598 PENTIUM 233MHz 1024X768 256 COLOR LISN : N

4.1.3 TEST DATA OF CONDUCTED EMISSION (B)

EUT: **CPU BOARD** MODEL: **SBC-492**

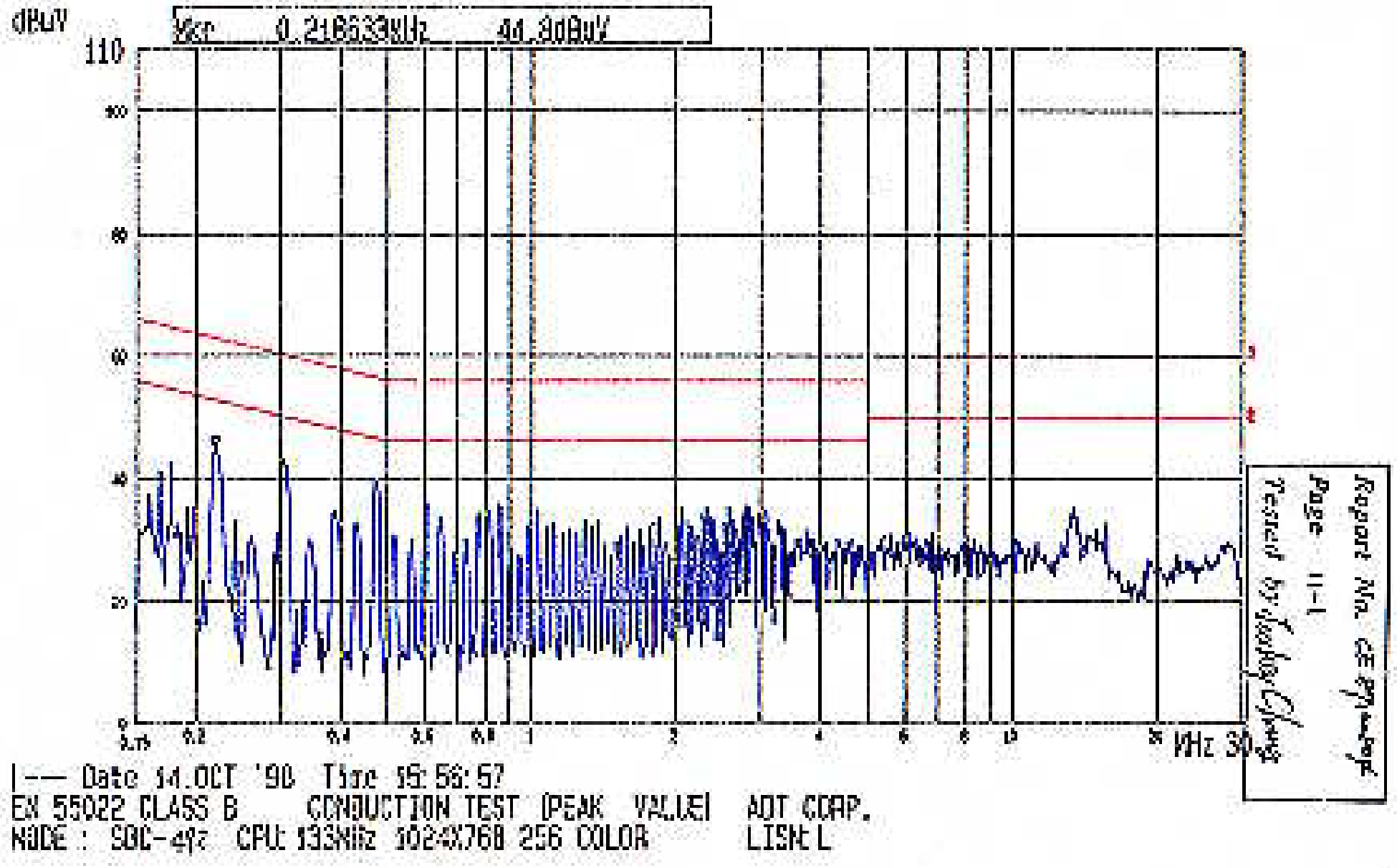
MODE: **2**

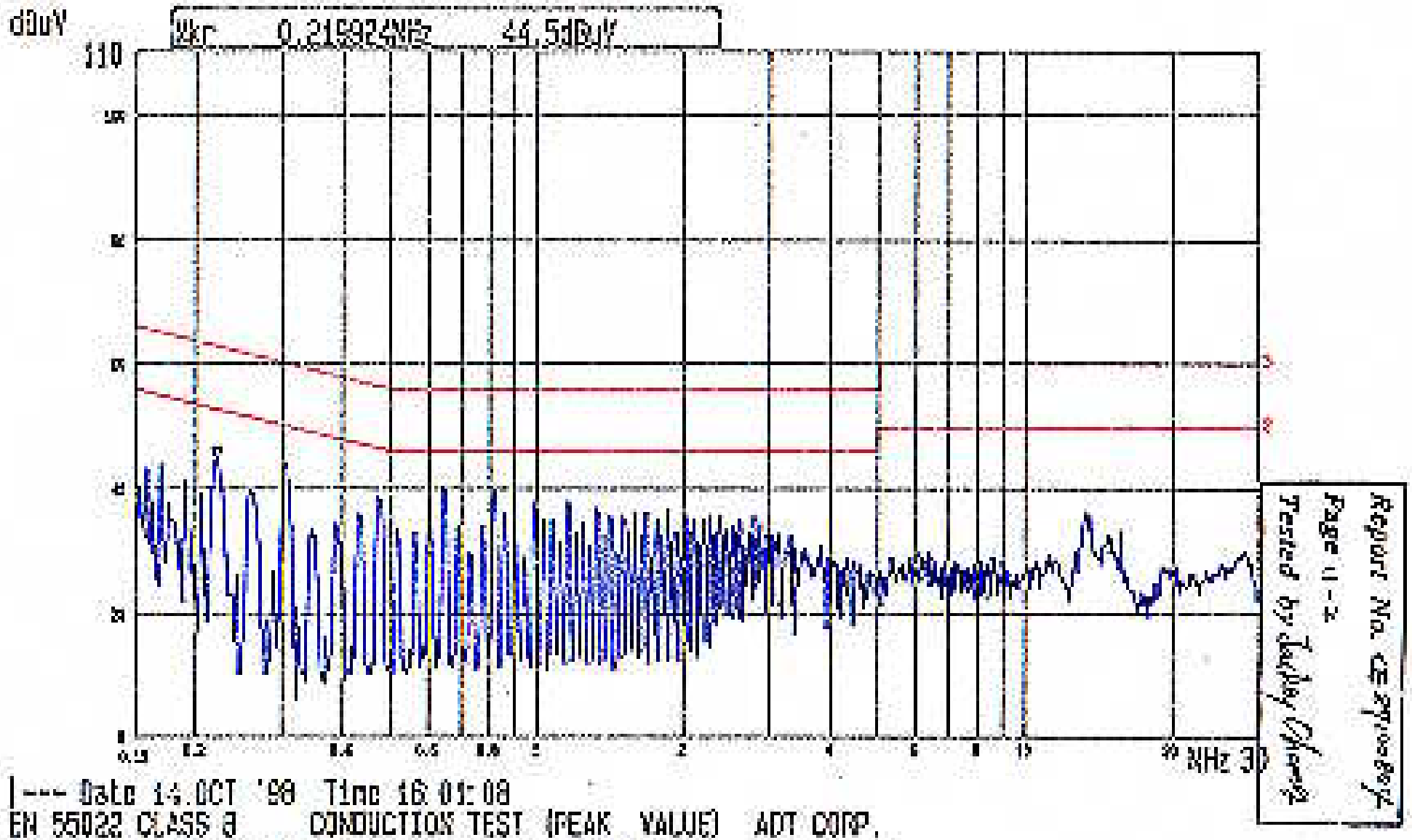
6 dB Bandwidth: 10 kHz

TEST PERSONNEL: Jackey Chang

Freq.	L Level		N Level		Limit		Margin [dB (μV)]			
[MHz]	[dB (μV)]		[dB (μV)]		[dB (μV)]		L		N	
	QP	AV	QP	AV	QP	AV	QP	AV	QP	AV
0.218	44.00	-	44.40	-	62.87	52.87	-18.9	-	-18.5	-
0.304	43.10	-	43.50	-	60.13	50.13	-17.0	-	-16.6	-
0.602	36.00	-	35.70	-	56.00	46.00	-20.0	-	-20.3	-
2.781	35.40	-	35.40	-	56.00	46.00	-20.6	-	-20.6	-
13.392	35.20	-	36.30	-	60.00	50.00	-24.8	-	-23.7	-
27.954	29.70	-	29.70	-	60.00	50.00	-30.3	-	-30.3	-

Remarks: 1. "*": Undetectable
2. Q.P. and AV. are abbreviations of quasi-peak and average individually.
3. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
4. The emission levels of other frequencies were very low against the limit.
5. Margin value = Emission level - Limit value


dBuV
Mkr 0.216533MHz 44.30BuV
110
100
90
80
70
60
50
40
30
20
10
0
0.15
0.2
0.4
0.5
0.6
1
2
4
6
8
12
30
MHz
Report No. CE 9[illegible]
Page 11-1
Tested by [illegible]
|-- Date 14.OCT '98 Time 15:56:57
EN 55022 CLASS B CONDUCTION TEST (PEAK VALUE) ADT CORP.
MODE : SDC-497 CPU 133MHz 1024X768 256 COLOR LISN L



--- Date 14.OCT '98 Time 16:01:08
EN 55022 CLASS B CONDUCTION TEST (PEAK VALUE) ADT COMP.
MODE : SBC-4Q2 CPU 133MHz 1024X768 256 COLOR LISN N

4.1.4 TEST DATA OF RADIATED EMISSION (A)

EUT: **CPU BOARD** MODEL: **SBC-598**

MODE: **1** POLARITY: Horizontal

ANTENNA: CHASE BILOG CBL 6112A

DETECTOR FUNCTION: Quasi-peak 6 dB BANDWIDTH: 120 kHz

FREQUENCY RANGE: 30-1000 MHz MEASURED DISTANCE: 10 M

TEST PERSONNEL: Jackey Chong

Frequency (MHz)	Correction Factor (dB/m)	Reading Data (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
113.81	14.1	9.1	23.2	30.0	-6.8
160.26	12.0	15.7	27.7	30.0	-2.3
169.69	11.9	13.4	25.3	30.0	-4.7
179.11	11.7	12.5	24.2	30.0	-5.8
188.56	12.0	13.9	25.9	30.0	-4.1
216.85	13.3	14.3	27.6	30.0	-2.4
235.68	14.3	19.3	33.6	37.0	-3.4
467.73	21.8	11.9	33.7	37.0	-3.3

REMARKS:
1. Emission level (dBuV/m) = Correction Factor (dB/m) +Meter Reading (dBuV).
2. Correction Factor (dB/m) = Ant. Factor (dB/m)+Cable loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level - Limit value

TEST DATA OF RADIATED EMISSION (A)

EUT: **CPU BOARD** MODEL: **SBC-598**

MODE: **1** POLARITY: Vertical

ANTENNA: CHASE BILOG CBL 6112A

DETECTOR FUNCTION: Quasi-peak 6 dB BANDWIDTH: 120 kHz

FREQUENCY RANGE: 30-1000 MHz MEASURED DISTANCE: 10 M

TEST PERSONNEL: Jackey Chang

Frequency (MHz)	Correction Factor (dB/m)	Reading Data (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
75.42	8.2	17.1	25.3	30.0	-4.7
122.55	15.1	8.1	23.2	30.0	-6.8
131.59	15.0	11.9	26.9	30.0	-3.1
138.70	15.0	9.3	24.3	30.0	-5.7
169.67	12.0	14.8	26.8	30.0	-3.2
179.10	12.0	13.4	25.4	30.0	-4.6
188.54	12.4	12.3	24.7	30.0	-5.3
216.82	13.6	12.3	25.9	30.0	-4.1
226.22	13.9	9.3	23.2	30.0	-6.8
235.68	14.3	19.8	34.1	37.0	-2.9
377.50	19.2	13.2	32.4	37.0	-4.6
467.78	22.1	12.7	34.8	37.0	-2.2

REMARKS:
1. Emission level (dBuV/m) = Correction Factor (dB/m) +Meter Reading (dBuV).
2. Correction Factor (dB/m) = Ant. Factor (dB/m)+Cable loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level - Limit value

4.1.5 TEST DATA OF RADIATED EMISSION (B)

EUT: **CPU BOARD** MODEL: **SBC-492**

MODE: **2** POLARITY: Horizontal

ANTENNA: CHASE BILOG CBL 6112A

DETECTOR FUNCTION: Quasi-peak 6 dB BANDWIDTH: 120 kHz

FREQUENCY RANGE: 30-1000 MHz MEASURED DISTANCE: 10 M

TEST PERSONNEL: Jackey Chong

Frequency (MHz)	Correction Factor (dB/m)	Reading Data (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
157.52	12.3	10.6	22.9	30.0	-7.1
181.16	11.7	9.6	21.3	30.0	-8.7
196.92	12.3	8.6	20.9	30.0	-9.1
220.52	13.5	11.3	24.8	30.0	-5.2
236.26	14.3	13.0	27.3	37.0	-9.7
252.03	15.3	17.3	32.6	37.0	-4.4
259.90	16.7	17.7	34.4	37.0	-2.6
275.65	16.5	18.2	34.7	37.0	-2.3
315.06	17.0	12.1	29.1	37.0	-7.9
448.95	21.7	9.9	31.6	37.0	-5.4

REMARKS:
1. Emission level (dBuV/m) = Correction Factor (dB/m) +Meter Reading (dBuV).
2. Correction Factor (dB/m) = Ant. Factor (dB/m)+Cable loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level - Limit value

TEST DATA OF RADIATED EMISSION (B)

EUT: **CPU BOARD** MODEL: **SBC-492**

MODE: **2** POLARITY: Vertical

ANTENNA: CHASE BILOG CBL 6112A

DETECTOR FUNCTION: Quasi-peak 6 dB BANDWIDTH: 120 kHz

FREQUENCY RANGE: 30-1000 MHz MEASURED DISTANCE: 10 M

TEST PERSONNEL: Jackey Chang

Frequency (MHz)	Correction Factor (dB/m)	Reading Data (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
157.52	12.3	10.6	22.9	30.0	-7.1
181.16	11.7	9.6	21.3	30.0	-8.7
196.92	12.3	8.6	20.9	30.0	-9.1
220.52	13.5	11.3	24.8	30.0	-5.2
236.26	14.3	13.0	27.3	37.0	-9.7
252.03	15.3	17.3	32.6	37.0	-4.4
259.90	16.7	17.7	34.4	37.0	-2.6
275.65	16.5	18.2	34.7	37.0	-2.3
315.06	17.0	12.1	29.1	37.0	-7.9
448.95	21.7	9.9	31.6	37.0	-5.4

REMARKS:
1. Emission level (dBuV/m) = Correction Factor (dB/m) +Meter Reading (dBuV).
2. Correction Factor (dB/m) = Ant. Factor (dB/m)+Cable loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level - Limit value

5. TEST RESULTS (IMMUNITY)

5.1 GENERAL DESCRIPTION

Basic Standard	:	IEC 801-2 (Electrostatic Discharge, ESD)
		IEC 801-3 (Radio-Frequency Electromagnetic Field Susceptibility Test, RS)
		IEC 801-4 (Electrical Fast Transient/Burst, EFT)
Input Voltage	:	230 Vac, 50 Hz (to PC)
Temperature	:	21 ℃
Humidity	:	58 %
Atmospheric Pressure	:	1000 mbar

5.2 PERFORMANCE CRITERIA DESCRIPTION

Criterion A - The apparatus shall continue to operate as intended. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended.

Criterion B - The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended.

Criterion C - Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

5.3 EUT OPERATION CONDITION

Industrial PC runs a test program to access FDD/HDD/MODEM/PRINTER sequentially and shows the result on monitor screen.

5.4 TEST RESULT OF ELECTROSTATIC DISCHARGE (ESD)

Basic Standard	:	IEC 801-2
Generic Standard	:	EN 50082-1
Discharge Impedance	:	150 ohm / 150 pF
Discharge Voltage (Direct/Indirect)	:	Air Discharge - 8 kV (Direct/Indirect) Contact Discharge – N/A
Polarity	:	Positive/Negative
Number of Discharge	:	Minimum 10 times at each test point
Discharge Mode	:	Single Discharge
Discharge Period	:	1-second minimum
Test Personnel	:	

Test Result		Remarks
Criterion A	**PASS**	MODE 1- model: SBC-598
Criterion A	**PASS**	MODE 2 - model: SBC-492

OBSERVATION DESCRIPTION

Direct Application			Test Result	
Discharge Level (kV)	Polarity (+/-)	Test Point	Contact Discharge	Air Discharge
8	+/-	1~ 3	N/A	Note 1

Description of test point:

1. Metal bracket
2. I/O port
3. Ground reference plane

Description of test result:

Note 1: There was no change compared with initial operation during the test.

0.4

5.5 TEST RESULT OF RADIATED ELECTROMAGNETIC FIELDS (RS)

Basic Standard	:	IEC 801-3
Generic Standard	:	EN 50082-1
Frequency range	:	27 MHz - 500 MHz
Field strength	:	3 V/m
Modulation	:	N/A
Frequency step	:	1 % of fundamental
Polarity of Antenna	:	Horizontal and Vertical
Test distance	:	3 m
Test Personnel	:	

Test Result		Remarks
Criterion A	**PASS**	MODE 1- model: SBC-598
Criterion A	**PASS**	MODE 2 - model: SBC-492

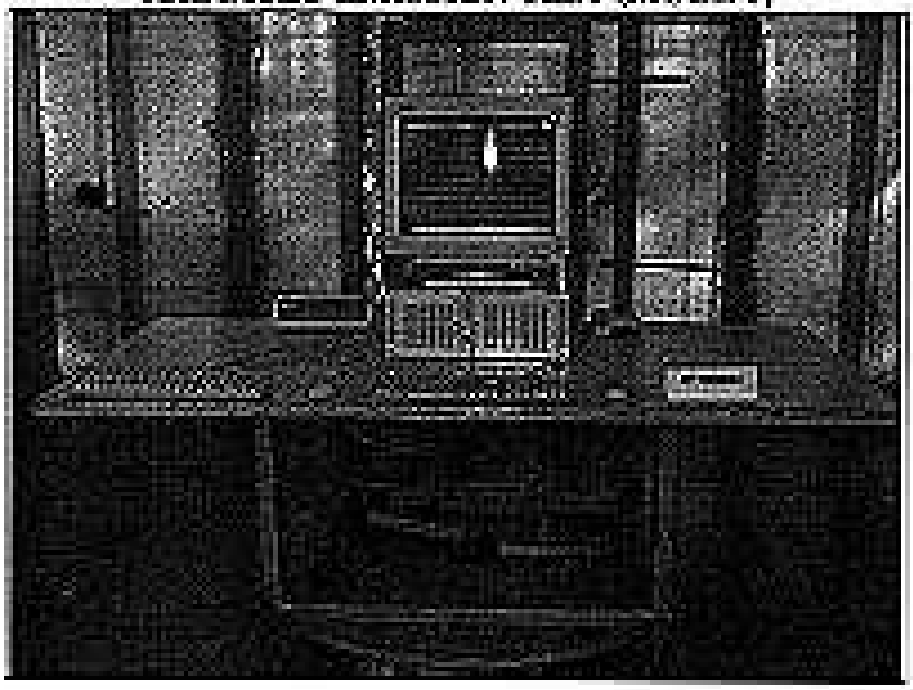
Note: Four sides of EUT are verified separately.

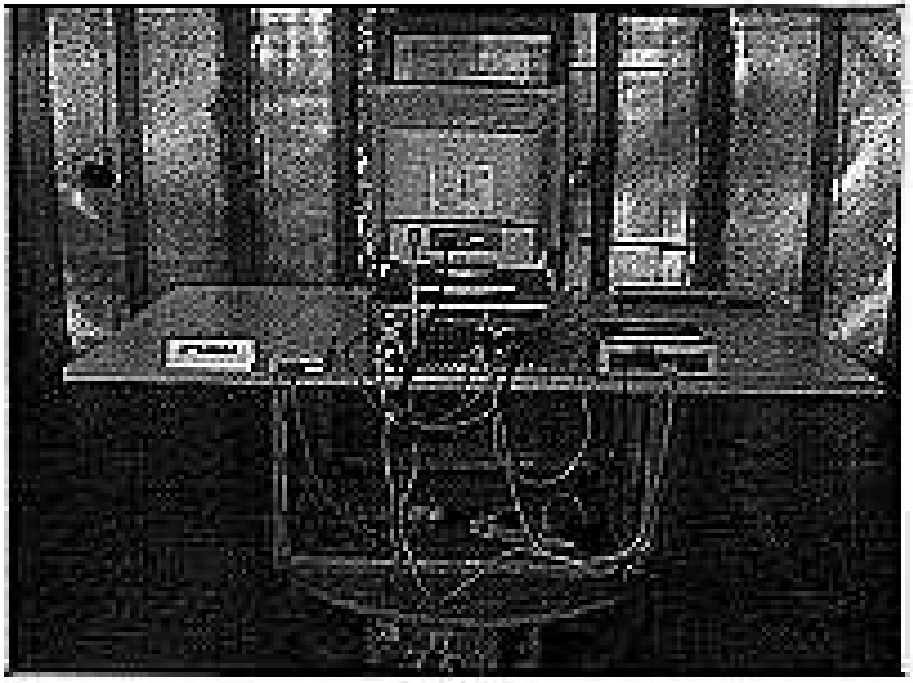
OBSERVATION DESCRIPTION

There is no change compared with initial operation during the test.

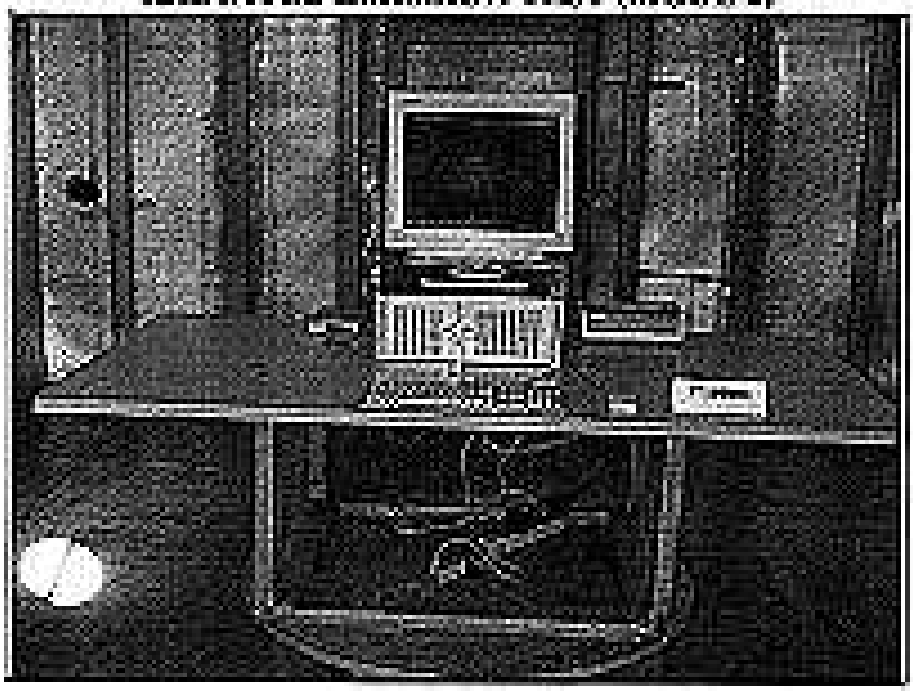
6. PHOTOGRAPHS OF THE TEST CONFIGURATION

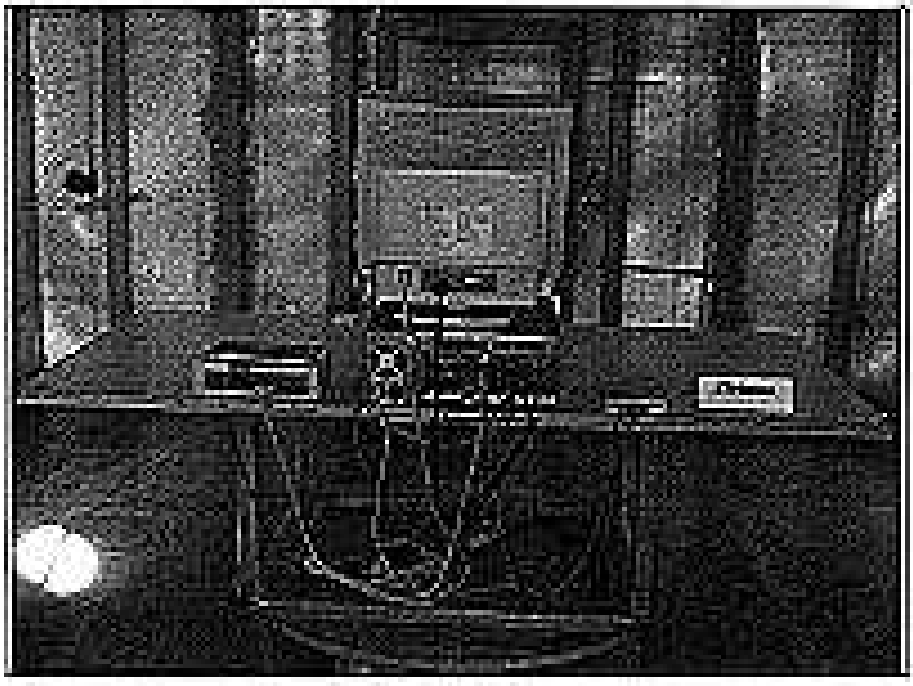
RADIATED EMISSION TEST (MODE 1)



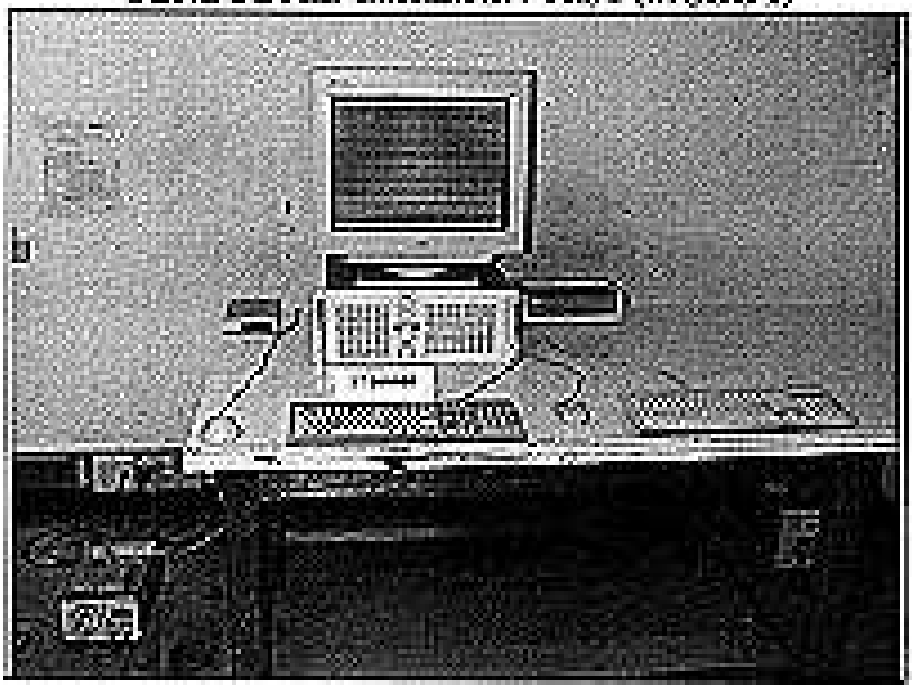


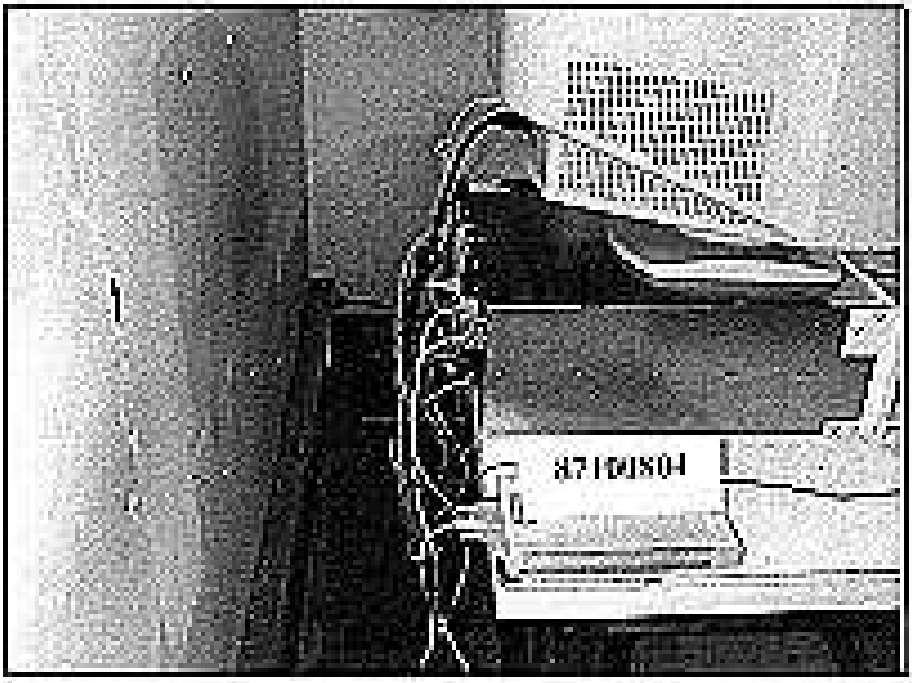
RADIATED EMISSION TEST (MODE 2)



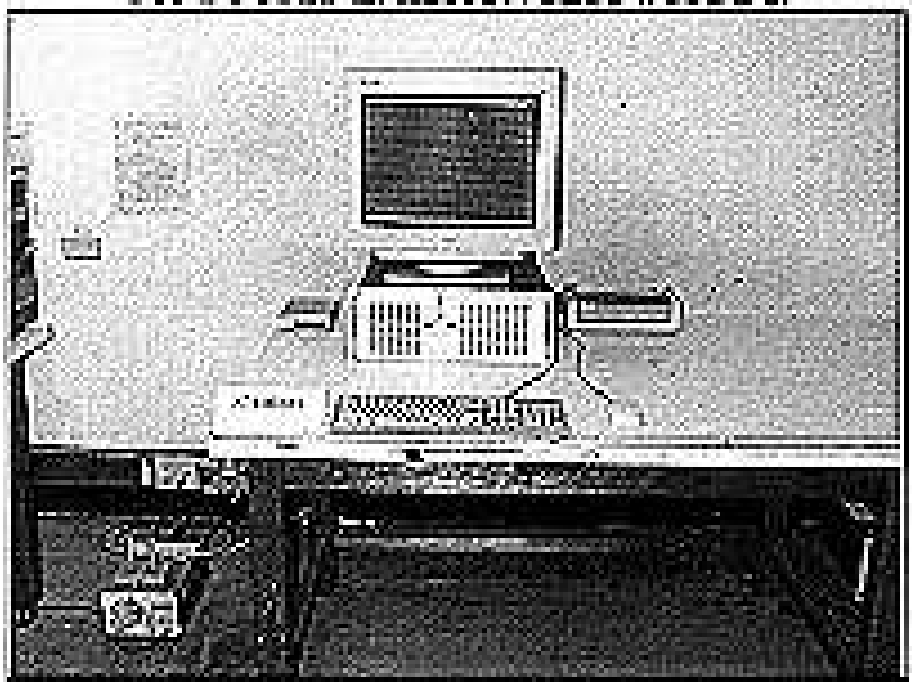


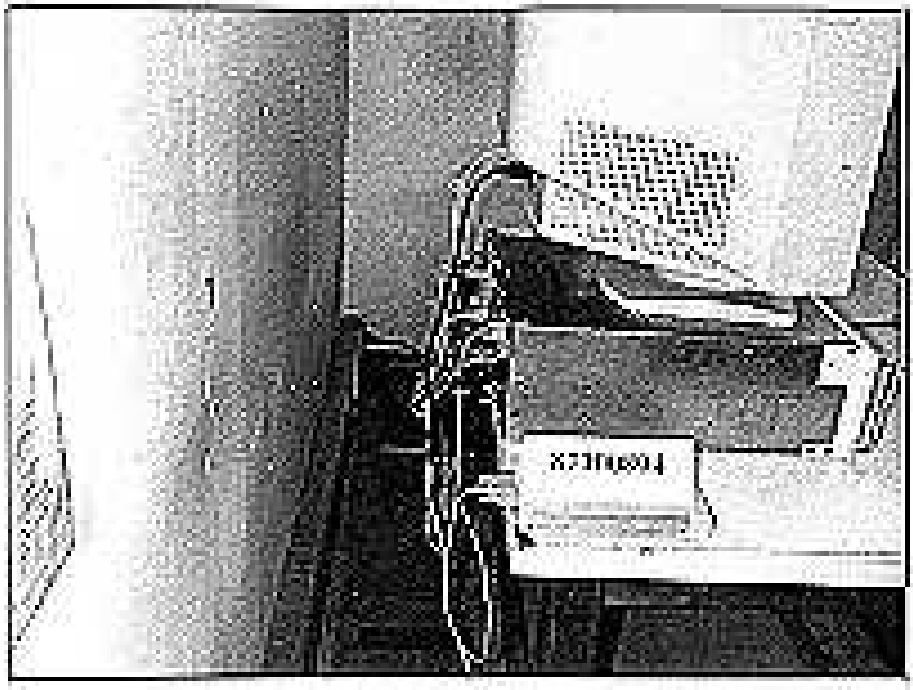
CONDUCTED EMISSION TEST (MODE 1)



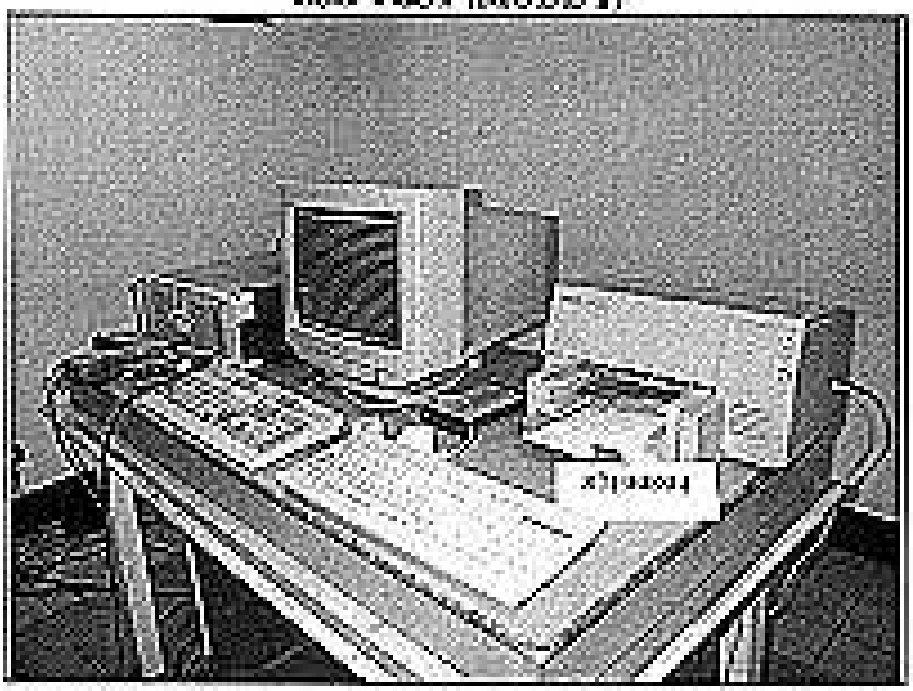


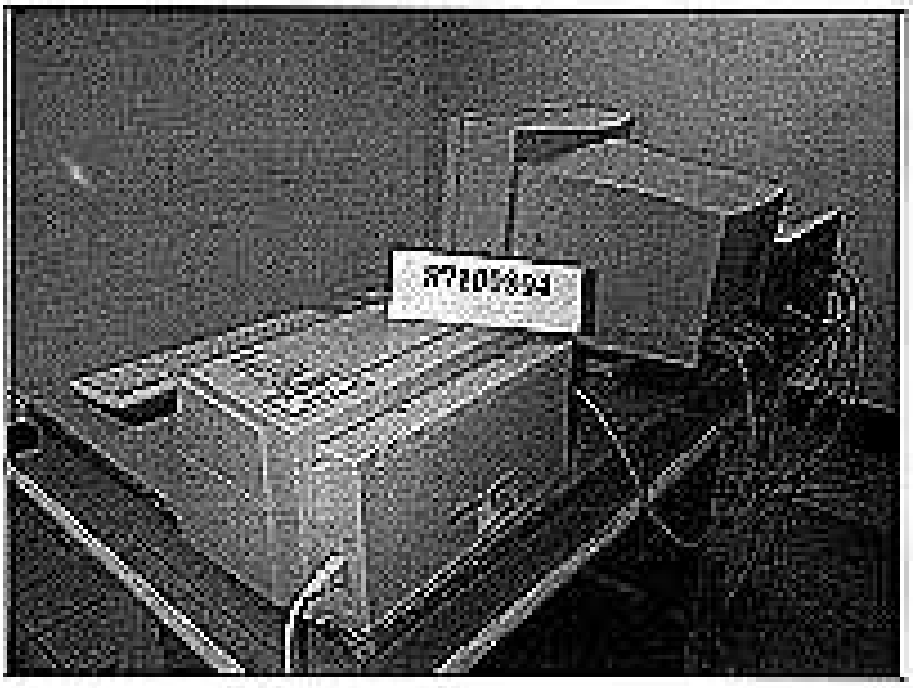
CONDUCTED EMISSION TEST (MODE 2)



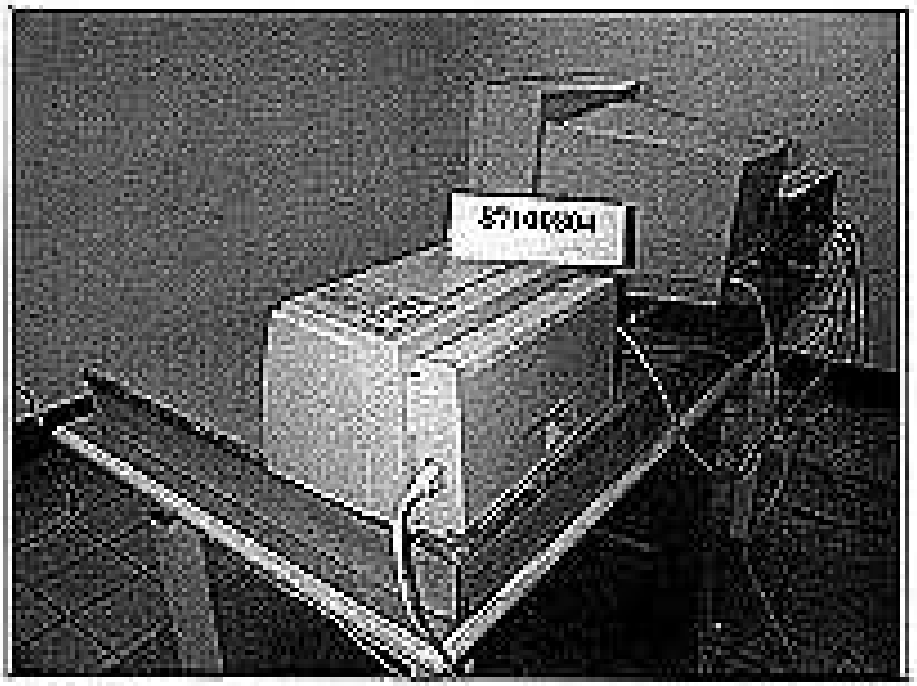


ESD TEST (MODE I)

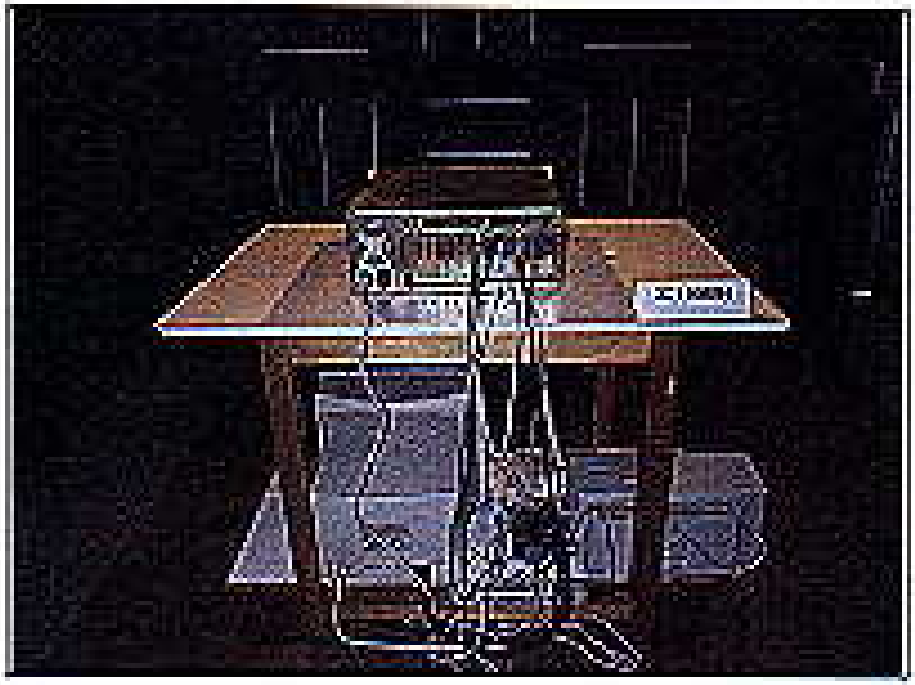




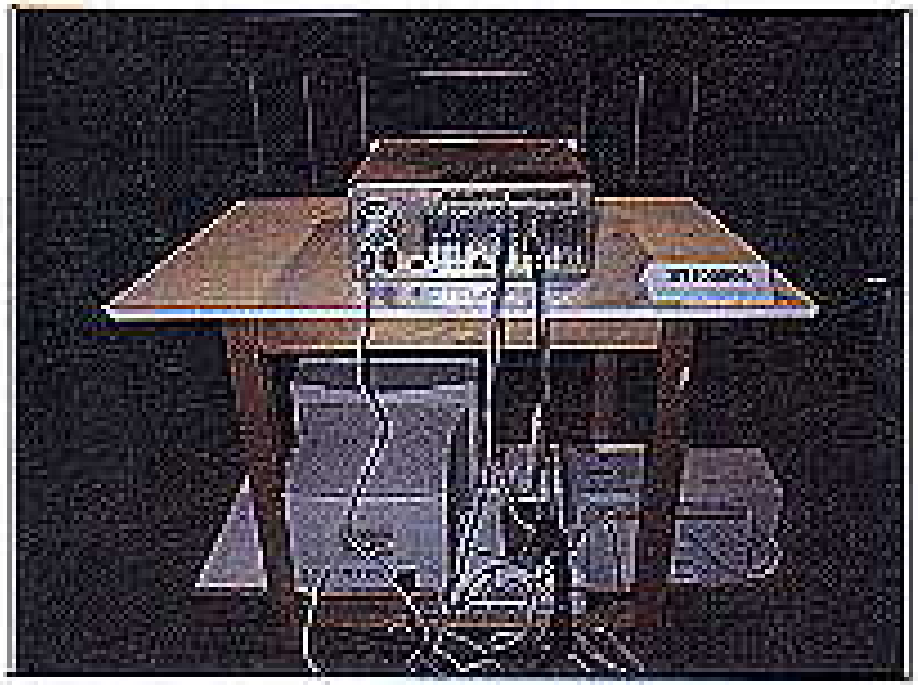
ESD TEST (MODE 2)



RS TEST (MODE 1)



RS TEST (MODE 2)

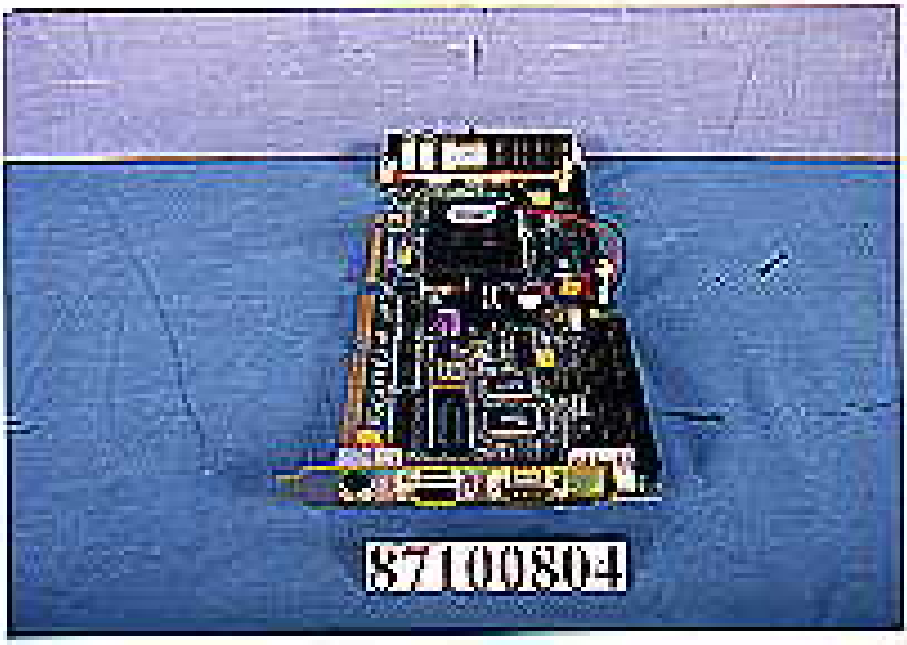


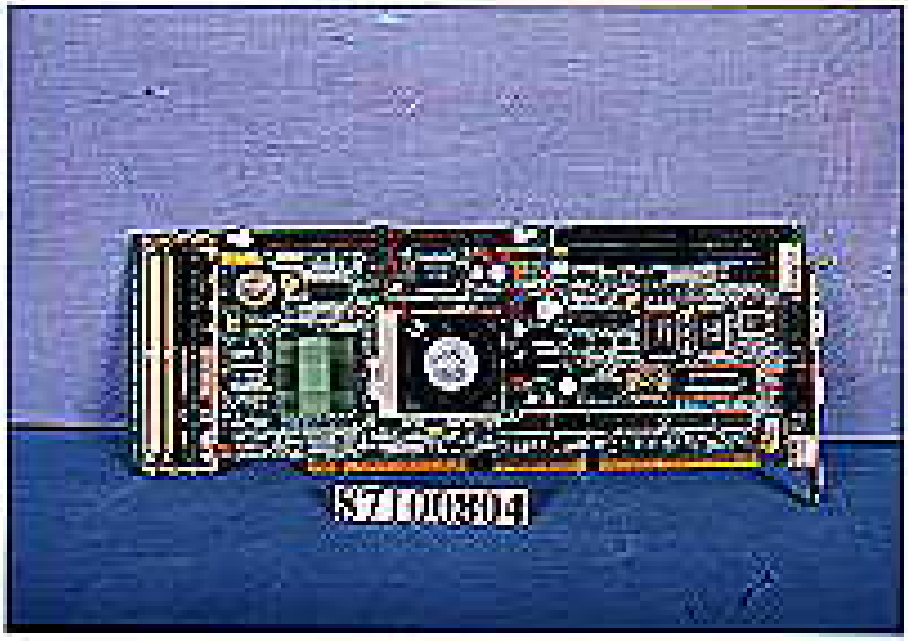
EFT TEST (MODE 1)

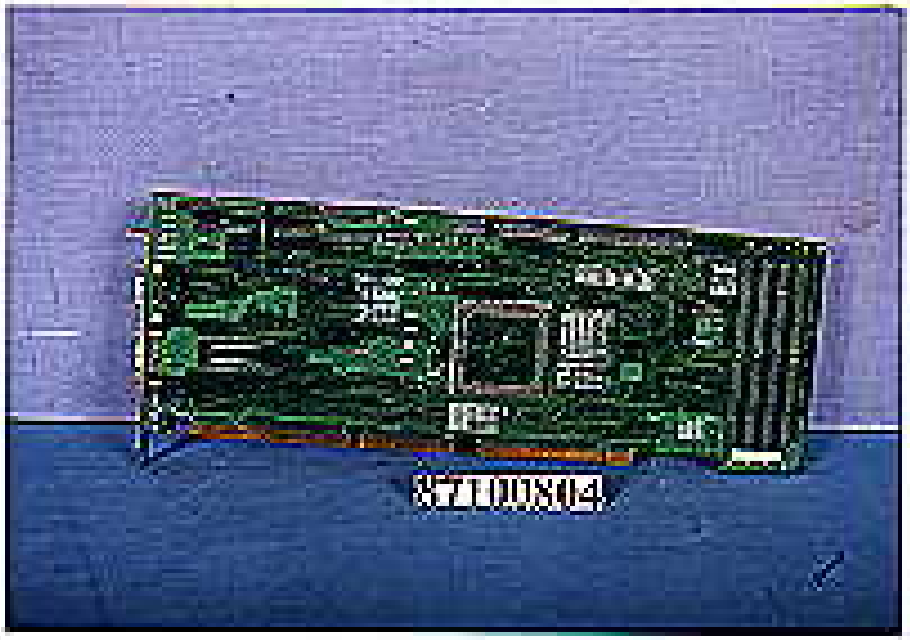
EFT TEST (MODE 2)

CONSTRUCTION PHOTOS OF EUT

MODEL







MODE 1