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1. TEST REPORT CERTIFICATION

APPLICANT : Lonton Corporation

ADDRESS : F1 6, No 113-1, Tunghsing Street  
Taipei, Taiwan, R.O.C.

EUT DESCRIPTION : COLOR MONITOR

(A) POWER SUPPLY : 115/230V

(B) MODEL : MD-1435

(C) FCCID : HG7MD-1435

FINAL TEST DATE : 01/08/1998

MEASUREMENT PROCEDURE USED :

PART 15 SUB PART B OF FCC RULES AND

REGULATIONS ( 47 CFR PART 15 )

FCC / ANSI C63.4 - 1992

WE HEREBY SHOW THAT:

THE MEASUREMENTS SHOWN IN THE ATTACHMENT WERE  
MADE IN ACCORDANCE WITH THE PROCEDURES INDICATED,  
AND THE ENERGY EMITTED BY THE EQUIPMENT WAS  
FOUND TO BE WITHIN THE LIMITS APPLICABLE.

TESTING ENGINEER : Yang Lin DATE 1/8/98

SUPERVISOR :   DATE 1/8/98

APPROVED BY :   DATE 1/8/98

2. TEST STATEMENT

2.1 TEST STATEMENT

TO whom it may concern,

This letter is to explain the test condition of this project.  
The EUT be tested as the following status.

CPU: PENTIUM - 100 MHz

CPU Clock Signal: 66 MHz

RESOLUTION: 640 X 480 (NI)  
              800 X 600 (NI)  
              1024 X 768 (NI)

The data shown in this report reflects the worst-case data for each condition as listed above.

Please disregard any other conditions that shown in this user manual.

2. TEST STATEMENT

2.2 DEPARTURE FROM DOCUMENT POLICIES, PROCEDURE OR SPECIFICATIONS

DID HAVE  
ANY DEPARTURE FROM DOCUMENT POLICIES  
& PROCEDURES OR FROM SPECIFICATIONS.

YES \_\_\_\_\_, NO N/A .

IF YES, THE DESCRIPTION AS BELOW.

2.3 TEST STATEMENT

1. THE CERTIFICATE OR REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY.
2. THE REPORT MUST NOT BE USED BY THE CLIENT TO CLAIM PRODUCT ENDORSEMENT BY NVLAP OR ANY AGENCY OF THE U.S. GOVERNMENT.

3. EUT MODIFICATIONS

THE FOLLOWING ACCESSORIES WERE ADDED TO THE EUT DURING TESTING:

- 1) .P701 PIN9,10 ADD 47pf CAP TO GROUND AND SERIAL FERRITE BEAD 120 OHM / AT 100MHZ.
- 2) .CHANGE C001 FROM 0.1uf TO 0.22uf.
- 3) .CHANGE C002 FROM 0.1uf TO 0.47uf.
- 4) .POWER GROUND PLATE AND VIDEO BOARD GROUND PLATE CONNECT WITH A GROUND WIRE.
- 5) .THE VIDEO CABLE'S WIRE MECH (NEAR THE POWER GROUND PLATE) AND POWER GROUND PLATE CONNECT WITH A GROUND WIRE.
- 6) .P701 PIN11,12 ADD 30pf CAP TO GROUND.
- 7) .P702 PIN3,4 SERIAL FERRITE BEAD 60 OHM / AT 100MHZ.
- 8) .D014,015 PARALLEL 220pf CAP.
- 9) .REMOVE THE COMMON CHOKE FROM L001 TO L002 AND ADD COMMON CHOKE (10mH) TO L001.
- 10) .CHANGE LC701,702,703 FROM JUMP WIRE TO "T" TYPE LC FILTER (271).
- 11) .R723 PARALLEL 1000pf CAP.
- 12) .Q002 O,G,S SERIAL APPERTURE WOUND BEAD (3T 626 OHM / AT 100MHZ).
- 13) .POWER CORD ADD CORE (NEAR THE POWER GROUND PLATE) 225 OHM / AT 100MHZ).
- 14) .VIDEO CABLE ADD CORE (NEAR THE VIDEO BOARD) 163 OHM / AT 100MHZ).

5. CONDUCTED POWER LINE TEST

5.1 TEST EQUIPMENT

THE FOLLOWING TEST EQUIPMENT WAS USED DURING THE CONDUCTED POWER LINE TEST :

EQUIPMENT/ FACILITIES	SPECIFICAT -IONS	MANUFACTURER	MODEL#/ SERIAL#	DATE OF CAL. & CAL. CENTER	DUE DATE
SPECTRUM ANALZER	9 KHz TO 1 GHz	HP	8590L/ 3624A01317	OCT, 1997 ETC	1Y
EMI TEST RECEIVER	9 KHz TO 30 MHz	ROHDE & SCHWARZ	ESHS30/ 893517/013	OCT, 1997 ETC	1Y
LISN	50 uH, 50 ohm	SOLAR ELECTRONICS	9252-50- R24-BNC/ 951315	AUGUST, 1997 ETC	1Y
LISN	50 uH, 50 ohm	SOLAR ELECTRONICS	9252-50- R24-BNC/ 951318	AUGUST, 1997 ETC	1Y
SIGNAL GENERATOR	9 KHz TO 1080 MHz	ROHDE & SCHWARZ	SMY01/ 841104/019	MAY, 1997 ETC	1Y
POWER CONVERTER	0 TO 300 VAC 47 - 500 Hz	AFC	AFC-1KW/ 850510	APRIL, 1997 SRT	1Y

## 5.2 CONFIGURATION OF THE EUT

THE EUT WAS CONFIGURED ACCORDING TO ANSI C63.4 - 1992. ALL INTERFACE PORTS WERE CONNECTED TO THE APPROPRIATE PERIPHERALS. ALL PERIPHERALS AND CABLES ARE LISTED BELOW.

### -EUT

DEVICE	MANUFACTURER	MODEL #	FCCID
COLOR MONITOR	DTK COMPUTER INC.	MD-1435	HG7MD-1435

### -REMARK

### - INTERNAL DEVICES

<u>DEVICE</u>	<u>MANUFACTURER</u>	<u>MODEL #</u>	<u>FCCID</u>
MAIN BOARD	MICRO STAR	MS-6112	N/A
POWER SUPPLY	DTK	PTP-3038	N/A
HDD	QUANTUM	SG21A011	N/A
FDD (3.5")	PANASONIC	JU-257A655P	N/A
VGA CARD	EXPERT	CP765V2	LVT-CP765

- PERIPHERALS

DEVICE	MANUFAC-TURER	MODEL# / SERIAL#	FCCID	CABLE
PRINTER	HP	2225C	BS46XU2225C	POWER-UNS DATA-S
MODEM	SMARTTEAM	103/212A	EF56A5103/212A	POWER-UNS DATA-S
KEYBOARD	NMB	R768567W	C9SKB4870	DATA-S
MOUSE	LOGITECH	M-S34	DZL211029	POWER-UNS

- REMARK

- (1). CABLE - UNS : UNSHIELDED CABLE  
S : SHIELDED CABLE
- (2). CABLES - ALL 1m OR GREATER IN LENGTH-  
BUNDLED ACCORDING TO ANSI C63.4 - 1992.

5.3 EUT OPERATING CONDITION

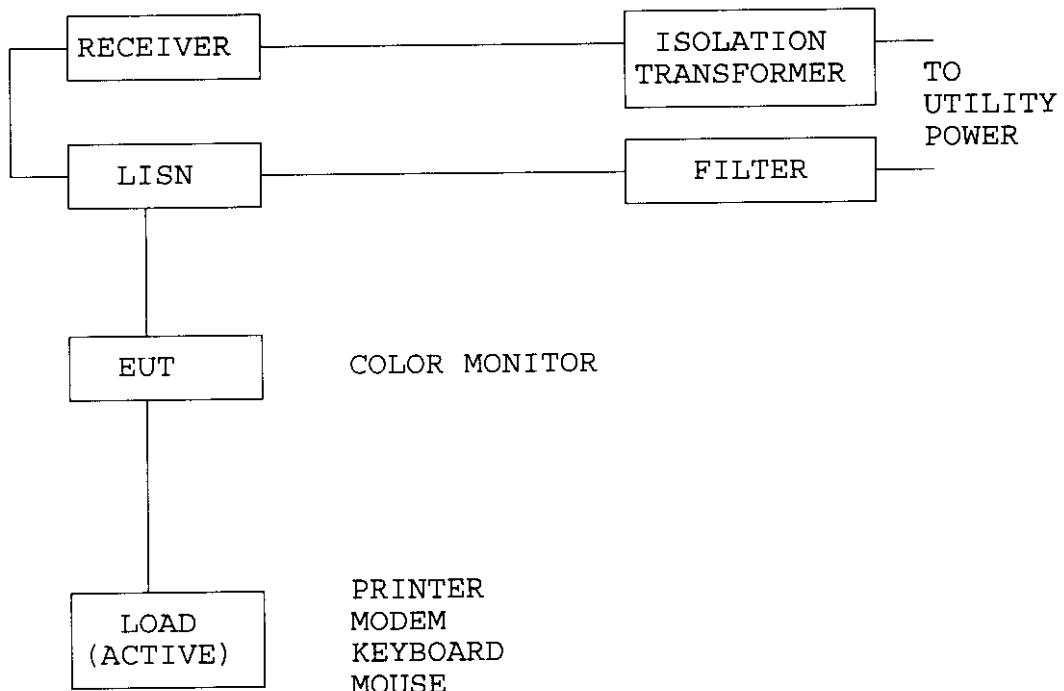
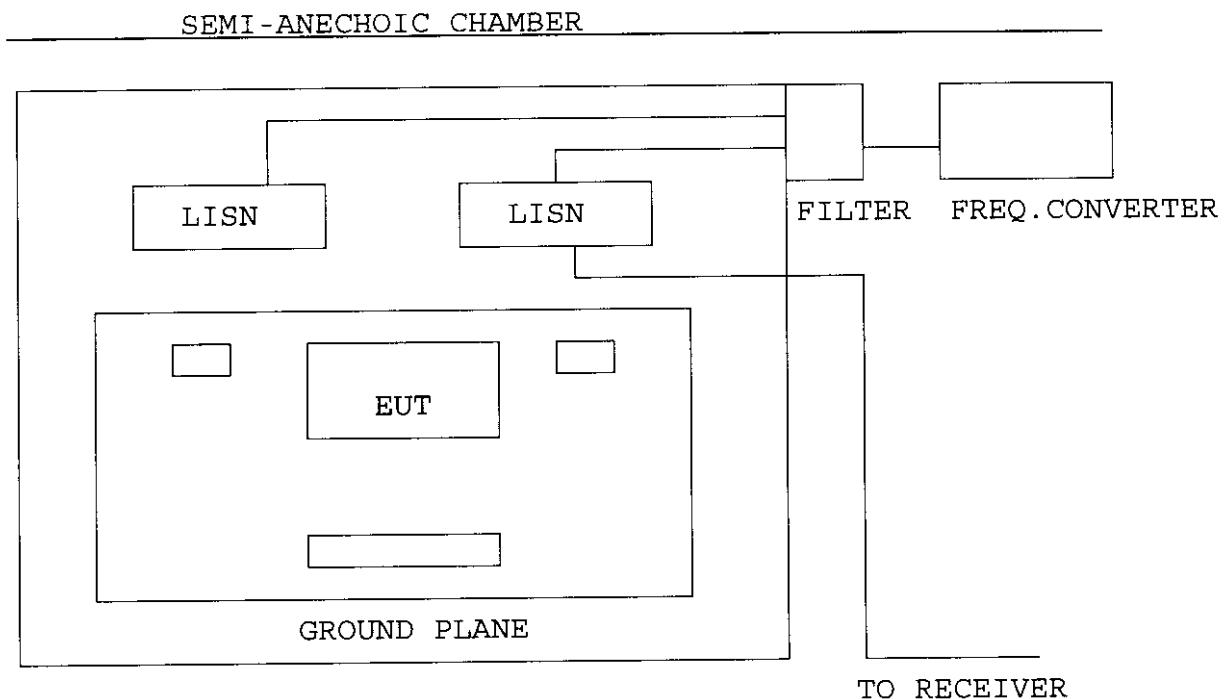
OPERATING CONDITION IS ACCORDING TO ANSI C63.4 - 1992.

1. EUT POWER ON.
2. "H" PATTERN SENT TO THE FOLLOWING PERIPHERALS:
  - PRINTER
  - MODEM
3. CPU : PENTIUM - 200MHz  
CLOCK CHIP : 66MHz
4. RESOLUTION : 640 X 480 (NI)  
800 X 600 (NI)  
1024 X 768 (NI)

#### 5.4 TEST PROCEDURE

THE EUT WAS TESTED ACCORDING TO ANSI C63.4 - 1992. THE CONDUCTED TEST WAS PERFORMED IN AN ANECHOIC CHAMBER. THE FREQUENCY SPECTRUM FROM 0.45 MHz TO 30 MHz WAS INVESTIGATED. THE LISN USED WAS 50 ohm / 50 uHenry AS SPECIFIED BY SECTION 5.1 OF ANSI C63.4 - 1992. CABLES AND PERIPHERALS WERE MOVED TO FIND THE MAXIMUM EMISSION LEVELS FOR EACH FREQUENCY.

5.5 TEST SETUP



5.6 CONDUCTED POWER LINE EMISSION LIMIT

FREQUENCY RANGE (MHz)	CLASS A	CLASS B
0.045 - 1.705	1000 uV	250 uV
1.705 - 30	3000 uV	250 uV

NOTE : IN THE ABOVE TABLE, THE TIGHTER LIMIT APPLIES AT THE BAND EDGES.

## 5.7 CONDUCTED POWER LINE TEST RESULT

THE FREQUENCY SPECTRUM FROM 0.45 MHZ TO 30 MHZ WAS INVESTIGATED. ALL READINGS ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 9 KHZ.

TEMPERATURE : 28 C

HUMIDITY : 78 %RH

FREQUENCY (MHz)	LINE 1 (uv)	LINE 2 (uv)	LIMIT (uv)
0.469	66.8	59.6	250
0.971	25.1	52.5	250
2.600	27.5	38.5	250
5.170	104.7	113.5	250
12.530	79.4	*	250
27.380	120.2	130.3	250

REMARKS : (1) .\* = MEMENT DOES NOT APPLY FOR THIS FREQUENCY  
 (2) .UNCERTAINTY IN CONDUCTED EMISSION MEASURED IS  
 <+/-2dB  
 (3) .TEST CONFIGURATION PLEASE SEE 4.2  
 (4) .TEST EQUIPMENT PLEASE SEE 4.1  
 (5) .ANY DEPARTURE FROM SPECIFICATION : N/A  
 (6) .RESOLUTION: 640 X 480

SIGNED BY TESTING ENGINEER : Taylor

## 5.7 CONDUCTED POWER LINE TEST RESULT

THE FREQUENCY SPECTRUM FROM 0.45 MHZ TO 30 MHZ WAS INVESTIGATED. ALL READINGS ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 9 KHZ.

TEMPERATURE : 28 C

HUMIDITY : 78 %RH

FREQUENCY (MHz)	LINE 1 (uv)	LINE 2 (uv)	LIMIT (uv)
0.492	64.6	70.8	250
0.908	34.7	64.6	250
2.650	37.2	56.2	250
5.110	117.5	114.8	250
10.260	57.5	55.0	250
19.990	120.2	120.2	250

REMARKS : (1). \* = MEMENT DOES NOT APPLY FOR THIS FREQUENCY  
(2). UNCERTAINTY IN CONDUCTED EMISSION MEASURED IS  
<+/-2dB  
(3). TEST CONFIGURATION PLEASE SEE 4.2  
(4). TEST EQUIPMENT PLEASE SEE 4.1  
(5). ANY DEPARTURE FROM SPECIFICATION : N/A  
(6). RESOLUTION: 800 X 600

SIGNED BY TESTING ENGINEER : John

4.7 CONDUCTED POWER LINE TEST RESULT

THE FREQUENCY SPECTRUM FROM 0.45 MHZ TO 30 MHZ WAS INVESTIGATED. ALL READINGS ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 9 KHZ.

TEMPERATURE : 28 C

HUMIDITY : 78 %RH

FREQUENCY (MHz)	LINE 1 (uv)	LINE 2 (uv)	LIMIT (uv)
0.532	58.2	84.1	250
0.969	45.2	82.2	250
2.570	38.9	70.0	250
5.090	141.3	136.5	250
7.030	90.2	80.4	250
13.040	104.7	100.0	250
27.440	134.9	124.5	250

REMARKS : (1). \* = MEMENT DOES NOT APPLY FOR THIS FREQUENCY

(2). UNCERTAINTY IN CONDUCTED EMISSION MEASURED IS  
<+/-2dB

(3). TEST CONFIGURATION PLEASE SEE 4.2

(4). TEST EQUIPMENT PLEASE SEE 4.1

(5). ANY DEPARTURE FROM SPECIFICATION : N/A

(6). RESOLUTION: 1024 X 768

SIGNED BY TESTING ENGINEER : John

## 6. RADIATED EMISSION TEST

## 6.1 TEST EQUIPMENT

THE FOLLOWING TEST EQUIPMENT WAS USED DURING THE  
RADIATED EMISSION TEST :

EQUIPMENT / FACILITIES	SPECIFICAT -IONS	MANUFACTUR -ER	MODEL#/ SERIAL#	DATE OF CAL. & CAL. CENTER	DU E DATE
RECEIVER	20 MHz TO 1000 MHz	R & S	ESVS 30/ 841977/003	MARCH, 1997 ITRI	1Y
SPECTRUM ANALYZER	100 Hz TO 1500 MHz	HP	8568B/ 3019A05294	OCT , 1997 ETC	1Y
SPECTRUM ANALYZER	9 KHz TO 22 GHz	HP	8593E/ 3322A00670	OCT, 1997 ETC	1Y
SPECTRUM ANALYZER	100 Hz TO 1000 MHz	IFR	A-7550/ 2684/1248	AUGUST, 1997 ETC	1Y
SPECTRUM ANALYZER	9 KHz TO 2900 MHz	HP	8594A/ 3229A00399	MAY, 1997 ETC	1Y
SIGNAL GENERATOR	9 KHz TO 1080 MHz	ROHDE & SCHWARZ	SMY01/ 841104/019	MAY, 1997 ETC	1Y
DIPOLE ANTENNA	28 MHz TO 1000 MHz	EMCO	3121C/ 9003-535	MARCH, 1997 SRT	1Y
DIPOLE ANTENNA	28 MHz TO 1000 MHz	EMCO	3121C/ 9611-1239	DEC, 1997 SRT	1Y
BI-LOG ANTENNA	26 MHz TO 2000 MHz	EMCO	3142/ 96081-1073	DEC, 1997 SRT	1Y
BI-LOG ANTENNA	26 MHz TO 1100 MHz	EMCO	3143/ 9509-1152	JAN, 1997 SRT	1Y
PRE-AMPLIFIER	0.1 MHz TO 1300 MHz	HP	8447D/ 2944A08402	MARCH, 1997 ETC	1Y
PRE-AMPLIFIER	0.1 MHz TO 1300 MHz	HP	8447D/ 2944A06412	OCT, 1997 ETC	1Y
HORN ANTENNA	1 GHz TO 18 GHz	EMCO	3115/ 9012-3619	DEC, 1997 SRT	1Y

6.2 CONFIGURATION OF THE EUT

SAME AS SECTION 5.4 OF THIS REPORT.

6.3 EUT OPERATING CONDITION

SAME AS SECTION 5.3 OF THIS REPORT.

6.4 TEST PROCEDURE

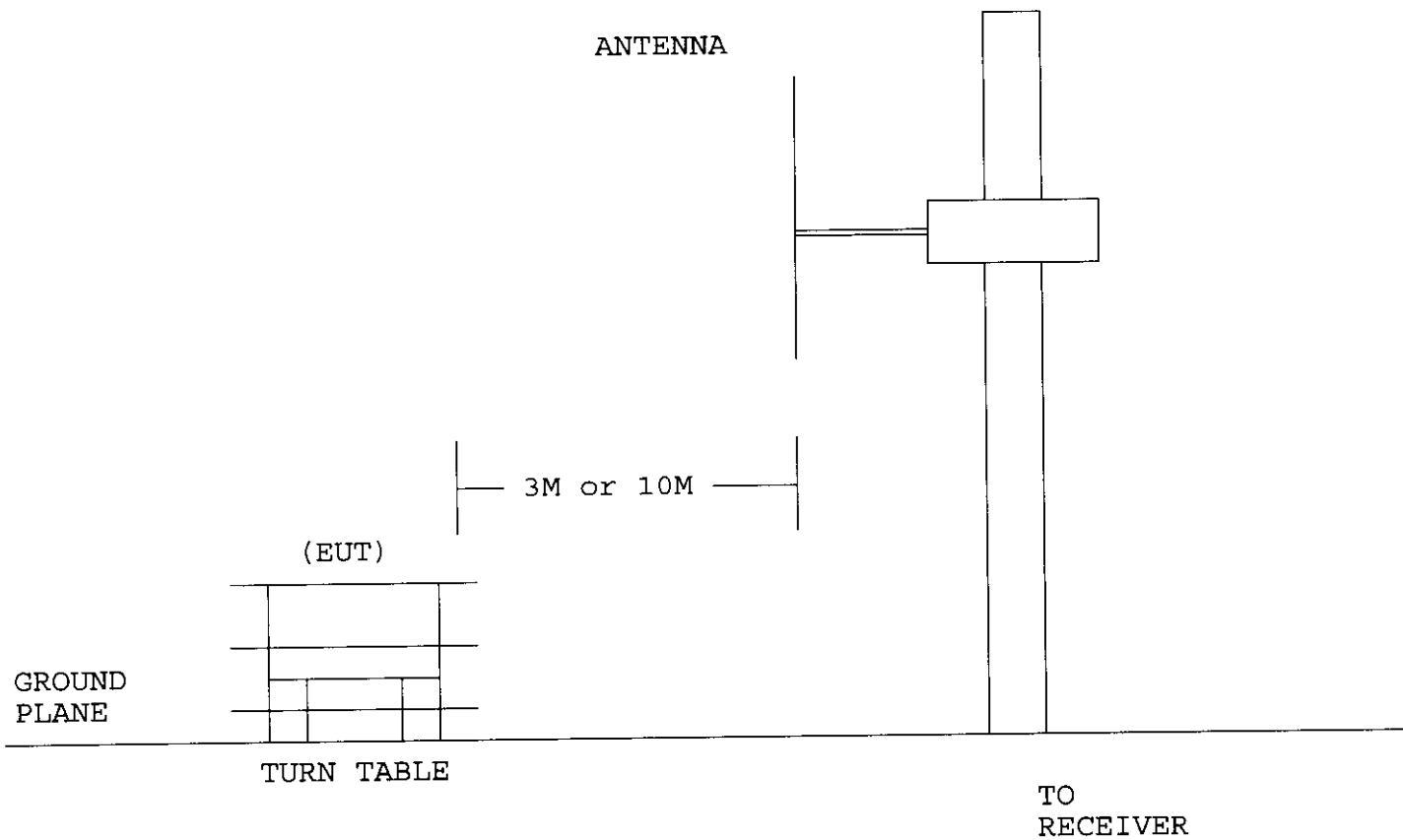
THE EUT WAS TESTED ACCORDING TO ANSI C63.4 - 1992. THE RADIATED TEST WAS PERFORMED AT SRT LAB's OPEN SITE. THIS SITE IS ON FILE WITH THE FCC LABORATORY DIVISION, REFERENCE 31040/SIT.

THE FREQUENCY SPECTRUM FROM 30 MHZ TO 2 GHZ WAS INVESTIGATED. MEASUREMENTS WERE MADE AT THREE METERS WITH AN ADJUSTABLE DIPOLE ANTENNA. PERIPHERALS, CABLES, EUT ORIENTATION, AND ANTENNA HEIGHT WERE VARIED TO FIND THE MAXIMUM EMISSION FOR EACH FREQUENCY.

THE FREQUENCY SPECTRUM FROM 30 MHZ TO 2 GHZ WAS INVESTIGATED. THE MEASUREMENTS UNDER 1 GHz WITH RESOLUTION BANDWIDTH OF 120 KHZ ARE QUASI-PEAK READING MADE AT THREE METERS USING AN ADJUSTABLE DIPOLE ANTENNA. PERIPHERALS, CABLES, EUT ORIENTATION, AND ANTENNA HEIGHT WERE VARIED TO FIND THE MAXIMUM EMISSION FOR EACH FREQUENCY.

THE MEASUREMENTS ABOVE 1 GHz WITH A RESOLUTION BANDWIDTH OF 1 MHZ ARE PEAK READING AT A DISTANCE OF THREE METERS WITH A HORN ANTENNA.

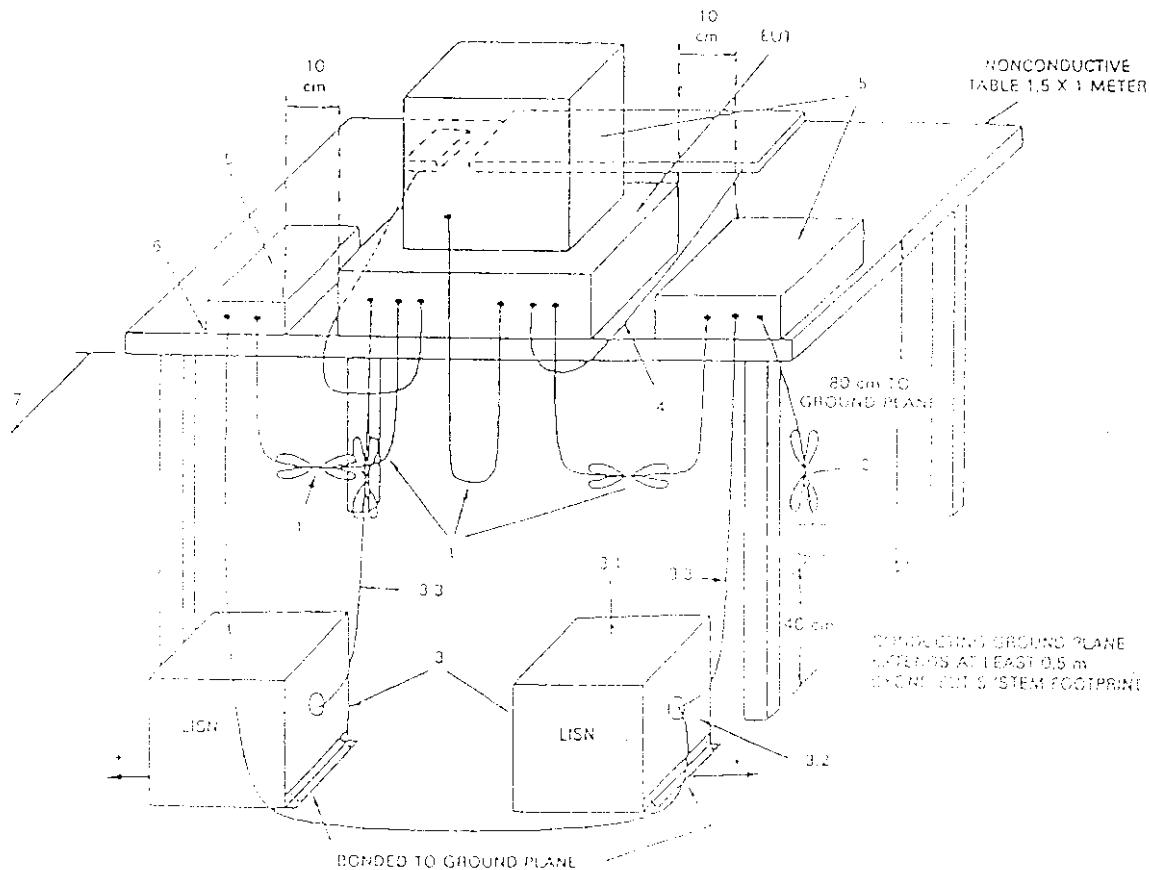
6.5 RADIATED TEST SETUP



## 6.5 RADIATED TEST SETUP

ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE RANGE OF 9 kHz TO 40 GHz

ANSI  
C63.4-1991



## 6.6 RADIATED EMISSION LIMIT

ALL EMISSION FROM A DIGITAL DEVICE, INCLUDING ANY NETWORK OF CONDUCTORS AND APPARATUS CONNECTED THERETO, SHALL NOT EXCEED THE LEVEL OF FIELD STRENGTH SPECIFIED BELOW :

## CLASS B

FREQUENCY (MHz)	DISTANCE (m)	FIELD STRENGTH (uV/m)
30 - 88	3	100
88 - 216	3	150
216 - 960	3	200
ABOVE 960	3	500

## CLASS B ( OPEN CASE )

FREQUENCY (MHz)	DISTANCE (m)	FIELD STRENGTH (uV/m)
30 - 88	3	199.5
88 - 216	3	298.5
216 - 960	3	398.1

## CLASS A

FREQUENCY (MHz)	DISTANCE (m)	FIELD STRENGTH (uV/m)
30 - 88	3	316.3
88 - 216	3	473.2
216 - 960	3	613.0
ABOVE 960	3	1000.0

NOTE : 1. IN THE EMISSION TABLES ABOVE, THE TIGHTER LIMIT APPLIES AT THE BAND EDGES.

2. DISTANCE REFERS TO THE DISTANCE BETWEEN MEASURING INSTRUMENT, ANTENNA, AND THE CLOSEST POINT OF ANY PART OF THE DEVICE OR SYSTEM.

## 6.7 RADIATED EMISSION TEST RESULT

THE FREQUENCY SPECTRUM FROM 30 MHz TO 2 GHz WAS INVESTIGATED. ALL READINGS UNDER 1 GHz ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 120 KHZ. MEASUREMENTS WERE MADE AT 3 METERS.

THE MEASUREMENTS ABOVE 1 GHz WITH A RESOLUTION BANDWIDTH OF 1 MHz ARE PEAK READING AT A DISTANCE OF 3 METERS.

TEMPERATURE : 28 CHUMIDITY : 78 %RH

FREQ. (MHz)	CABLE LOSS (dB)	ANT. FACTOR (dB)	READING (dBuV)		EMISSION (uV)		LMTS (uV)
			HORIZ	VERT	HORIZ	VERT	
190.1	1.8	9.5	24.4	23.8	61.0	56.9	150
265.2	2.0	12.8	23.0	*	77.6	*	200
471.4	2.6	17.0	22.2	18.7	123.0	82.2	200
536.8	3.0	18.4	*	17.4	*	87.1	200
871.5	3.8	22.1	14.6	12.8	105.9	86.1	200

REMARKS : (1). MEASUREMENT DOES NOT APPLY FOR THIS FREQUENCY.

(2). THE MAXIMUM CONDITION WAS WITH THE MONITOR POWER CORD CONNECTED TO THE PERSONAL COMPUTER.

(3). SAMPLE CALCULATION  
 $20 \log(\text{EMISSION}) \text{ uV/m} = \text{CABLE LOSS (dB)} + \text{FACTOR (dB)} + \text{READING (dBuV/m)}$

(4). TEST CONFIGURATION PLEASE SEE 5.2

(5). TEST EQUIPMENT PLEASE SEE 5.1

(6). UNCERTAINTY IN RADIATED EMISSION MEASURED IS  $<+/-4\text{dB}$

(7). ANY DEPARTURE FROM SPECIFICATION : N/A

(8). RESOLUTION: 640 X 480

SIGNED BY TESTING ENGINEER : John

## 6.7 RADIATED EMISSION TEST RESULT

THE FREQUENCY SPECTRUM FROM 30 MHZ TO 2 GHZ WAS INVESTIGATED. ALL READINGS UNDER 1 GHz ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 120 KHZ. MEASUREMENTS WERE MADE AT 3 METERS.

THE MEASUREMENTS ABOVE 1 GHz WITH A RESOLUTION BANDWIDTH OF 1 MHz ARE PEAK READING AT A DISTANCE OF 3 METERS.

TEMPERATURE : 28 CHUMIDITY : 78 %RH

FREQ. (MHz)	CABLE LOSS (dB)	ANT. FACTOR (dB)	READING (dBuV)		EMISSION (uV)		LMTS (uV)
			HORIZ	VERT	HORIZ	VERT	
182.8	1.7	9.1	*	22.7	*	47.3	150
221.6	1.8	10.7	17.8	*	32.7	*	200
471.4	2.6	17.0	21.0	19.7	107.2	92.3	200
536.8	3.0	18.4	16.4	16.2	77.6	75.9	200
873.9	3.8	22.1	14.8	13.7	108.4	95.5	200

REMARKS : (1). MEASUREMENT DOES NOT APPLY FOR THIS FREQUENCY.

(2). THE MAXIMUM CONDITION WAS WITH THE MONITOR POWER CORD CONNECTED TO THE PERSONAL COMPUTER.

(3). SAMPLE CALCULATION  
 $20 \log(\text{EMISSION}) \text{uV/m} = \text{CABLE LOSS (dB)} + \text{FACTOR (dB)} + \text{READING (dBuV/m)}$

(4). TEST CONFIGURATION PLEASE SEE 5.2

(5). TEST EQUIPMENT PLEASE SEE 5.1

(6). UNCERTAINTY IN RADIATED EMISSION MEASURED IS  $<+/-4\text{dB}$

(7). ANY DEPARTURE FROM SPECIFICATION : N/A

(8). RESOLUTION: 800 X 600

SIGNED BY TESTING ENGINEER : John

## 5.7 RADIATED EMISSION TEST RESULT

THE FREQUENCY SPECTRUM FROM 30 MHz TO 2 GHz WAS INVESTIGATED. ALL READINGS FROM 30 MHz TO 1 GHz ARE QUASI-PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 120 KHZ. ALL READINGS ARE ABOVE 1 GHz, PEAK VALUES WITH A RESOLUTION BANDWIDTH OF 1 MHZ. MEASUREMENTS WERE MADE AT 3 METERS.

TEMPERATURE : 28 CHUMIDITY : 78 %RH

FREQ. (MHz)	CABLE LOSS (dB)	ANT. FACTOR (dB)	READING (dBuV)		EMISSION (uV)		LMTS (uV)
			HORIZ	VERT	HORIZ	VERT	
131.9	1.4	8.1	*	21.4	*	35.1	150
471.4	1.6	17.0	22.1	19.8	121.6	93.3	200
536.8	3.0	18.4	18.4	16.2	97.7	75.9	200
738.1	3.4	20.8	15.8	*	100.0	*	200
873.9	3.8	22.1	15.7	13.8	120.2	96.6	200

REMARKS : (1). MEASUREMENT DOES NOT APPLY FOR THIS FREQUENCY.

(2). THE MAXIMUM CONDITION WAS WITH THE MONITOR POWER CORD CONNECTED TO THE PERSONAL COMPUTER.

(3). SAMPLE CALCULATION  
 $20 \log(\text{EMISSION}) \text{ uV/m} = \text{CABLE LOSS (dB)} + \text{FACTOR (dB)} + \text{READING (dBuV/m)}$

(4). TEST CONFIGURATION PLEASE SEE 5.2

(5). TEST EQUIPMENT PLEASE SEE 5.1

(6). UNCERTAINTY IN RADIATED EMISSION MEASURED IS  $<+/-4\text{dB}$

(7). ANY DEPARTURE FROM SPECIFICATION : N/A

(8). RESOLUTION: 1024 X 768

SIGNED BY TESTING ENGINEER : John [Signature]