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## FCC TEST REPORT FOR

APPLICANT : GRANDVIEW TECHNOLOGY INC.  
ADDRESS : 8F, 780-1, Chung Cheng Rd.,  
Chung Ho City, Taipei Hsien,  
Taiwan, R. O. C.  
EUT : LCD MONITOR  
MODEL NO. : 121TSA  
FCC ID : OKTLM121

Under Part 15, SUBPART B.

CLASS B

Certification

PREPARED BY :

HomeTek Technology Inc.

No. 85-5, Shir Men Road, Tu Cheng City,

Taipei Hsien. TAIWAN, R. O. C.

Report # : FB8E001



HomeTek Technology Inc.

ADDRESS: No.85-5, Shir Men Road, Tu Cheng City,  
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# TEST REPORT CERTIFICATION

EUT : LCD MONITOR

MODEL NO. : 121TSA

FCC ID : OKTLM121

Final Test Date : 5/9/99 REPORT #: FB8E001

APPLICANT : GRANDVIEW TECHNOLOGY INC.

ADDRESS : 8F, 780-1, Chung Cheng Rd.,  
Chung Ho City, Taipei Hsien,  
Taiwan, R. O. C.

## MEASUREMENT PROCEDURE USED :

PART 15 SUBPART B OF FCC RULES AND REGULATIONS  
( 47 CFR PART 15 ) FCC / ANSI C63.4-1992

### WE HEREBY SHOW THAT :

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

THIS TEST RESULTS OF THIS REPORT APPLIES TO ABOVE TESTED SAMPLE ONLY.

THIS TEST REPORT SHALL NOT BE REPRODUCE IN PART WITHOUT WRITTEN APPROVAL OF HOMETEK TECHNOLOGY INC.

TEST ENGINEER : Jenny DATE : 5/21/99  
TOMY HU

CHECK BY : Joe DATE : 5/24/99  
JOSEPH CHOU

APPROVED BY : Grant Huang DATE : 5/24/99  
GRANT HUANG/Manager



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CIRCUIT (BLOCK) DIAGRAM

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USER'S MANUAL

**GENERAL INFORMATION**

- 1 APPLICANT : GRANDVIEW TECHNOLOGY INC.
- 2 ADDRESS : 8F, 780-1, Chung Cheng Rd.,  
Chung Ho City, Taipei Hsien,  
Taiwan, R. O. C.
- 3 MANUFACTURER : GRANDVIEW TECHNOLOGY INC.
- 4 ADDRESS : 8F, 780-1, Chung Cheng Rd.,  
Chung Ho City, Taipei Hsien,  
Taiwan, R. O. C.
- 5 DESCRIPTION OF EUT :
  - EUT : LCD MONITOR
  - FCC ID : OKTLM121
  - Model Number : 121TSA
  - Serial # : N/A
  - Data Cable : SHIELDED
  - Power Cord : UN-SHIELDED
  - Power Supply Type : ADAPTOR

6 FEATURES OF EUT :

Type	Color TFT
Size	Diagonal 12.1"
Display Area	246 x 184.5 mm
Brightness	120 cd/m <sup>2</sup> (270cd/m <sup>2</sup> ), depends on models
Contrast Ratio	120 : 1
Pixel Pitch	0.3075x0.3075mm
Max. Pixel Rate	60 MHz
Viewing Angle (L/R/T/B)	45/45/10/30
Resolution	800 x 600
Display Modes	Full Screen in 640x480, 800x600 modes
Horizontal Frequency	15 ~ 60 KHz
Vertical Frequency	55 ~ 85 Hz
Color	262K
Input Signal	Analog RGB (0.7 Vp-p, 75ohms)
Input Terminal	D-sub mini 15 pin
Response Time	Tr: 20 ms Tf: 30ms
Plug & Play	DDC1, DDC2B
Compatibility	VGA, SVGA, IBM PC, MacII
Power Management	VESA DPMS

## **MODIFICATION LIST**

THE FOLLOWING ACCESSORIES WERE ADDED TO THE EUT DURING TESTING :

1. Added a core (RH 14.3 x 23.5 x 7) on Adaptor Cable at connector end, Show as page " 38 ".
2. Added a core (RH 17.5 x 28.5 x 9.5) on VGA Data Cable at VGA end, Show as page " 37 ".
3. Added a core (RH 17.5 x 28.5 x 9.5) on VGA Data Cable at Monitor end, Show as page " 37 ".

## CONDUCTED POWER LINE TEST

### 1 TEST INSTRUMENTS & FACILITIES

The following test Instruments was used during the conducted test :

Item	Instruments/ Facilities	Specification	Manufacturer	Model # / S/N#	Date Of Cal.
1	EMI Receiver	9KHz ~ 30MHz	ROHDE & SCHWARZ	ESHS 30 844827/007	FEB/99
2	LISN	50 $\Omega$ /50uH/100A 9KHz ~ 30MHz	SCHWARZ BECK	NNLK 8121 8121370	FEB/99
3	LISN	9KHz ~ 30MHz	ROHDE & SCHWARZ	ESH3-Z5 846128/007	FEB/99
4	Pulse Limiter	9KHz ~ 30MHz	ROHDE & SCHWARZ	ESH3Z2 357.8810.52	JUL/98

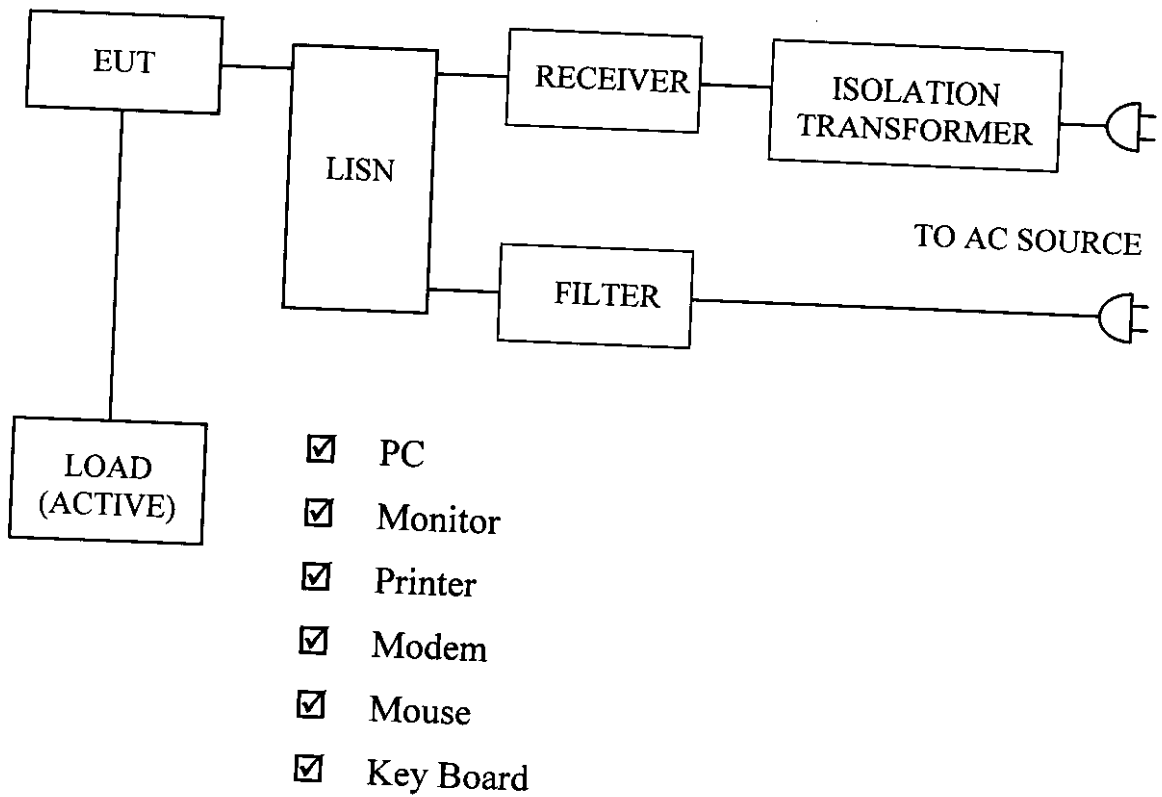
Note : All equipment upon which need to calibrated are with period of 1 year.

### 2 TEST PROCEDURE

- 2.1 The EUT was tested according to **ANSI C63.4 - 1992**.
- 2.2 The EUT was placed 0.4 meter from the conducting wall of shielding room and kept at least 0.8 meter from any other grounded conducting surface.
- 2.3 The frequency range form 0.45 MHz to 30 MHz was investigated.
- 2.4 The LISN used was 50 Ohm / 50 uHenry as specified by Section 5.1 of **ANSI C63.4 - 1992**.
- 2.5 All the support peripherals are connect to the other LISN.
- 2.6 Cables and peripherals were moved to find the maximum emission levels for each frequency.



3.2 Block Diagram Of Conducted Test





#### 4 CONFIGURATION OF THE EUT

The EUT was configured according to **ANSI C63.4 - 1992**. All I/O ports were connected to the appropriate peripherals. All peripherals and cables are listed below (including internal device) :

##### 4.1 EUT

EUT Type : Proto Type Engineer Type Mass Production  
Condition when received : Good Damage : \_\_\_\_\_  
Connector Type : Metal Type Plastic Type  
Device : LCD MONITOR  
Manufacturer : GRAND VIEW  
Model Number : 121TSA  
Serial Number : N/A  
FCC ID : OKTLM121  
Data Cable : Shielded  
Power Cord & Adaptor : Un-Shielded, 1.8 m

##### 4.2 PERIPHERALS

Host Personal Computer  
Manufacturer : CHAINTECH  
Model Number : 6LTM  
Serial Number : N/A  
FCC ID : DoC By PEP LAB  
Data Cable : Shielded  
Power Cord : Shielded, 1.8 m



Printer

Manufacturer : HP  
Model Number : DJ400  
Serial Number : MY77V1C0DD  
FCC ID : B94C2642X  
Data Cable : Shielded, 1.5 m, Connected to the Printer port  
Power Cord & Adaptor : Un-Shielded, 1.8 m

Modem

Manufacturer : DATATRONIC  
Model Number : 2814CX  
Serial Number : 1150541132  
FCC ID : FCC DoC  
Data Cable : Shielded, 1.5 m, Connected to the COM port  
Power Cord & Adaptor : Un-Shielded, 1.8 m

Mouse (PSII)

Manufacturer : HP  
Model Number : M-S34  
Serial Number : LZA72270791  
FCC ID : DZL211029  
Data Cable : Shielded, 1.8 m, Connected to the PSII port  
Power Cord : N/A



HomeTek Technology Inc.

FCC ID : OKTLM121

KeyBoard (PSII)

Manufacturer : AST  
Model Number : SK-2000REW  
Serial Number : C9612097280  
FCC ID : GYUR34SK  
Data Cable : Shielded, 1.5 m, Connected to the PSII port  
Power Cord : N/A

KeyBoard (USB)

Manufacturer : SILITEK  
Model Number : SK-2000U  
Serial Number : N/A  
FCC ID : GYUR50SK  
Data Cable : Shielded, 1.5 m, Connected to the USB port  
Power Cord : N/A

Adaptor

Manufacturer : UMEC  
Model Number : UP0451E-RP  
Serial Number : T8B43907  
FCC ID : N/A  
Data Cable : Shielded, 1.5 m  
Power Cord : N/A



4.3 Internal Devices

VGA Card

Manufacturer : LEADTEK  
Model Number : LRI 2360  
Serial Number : N/A  
FCC ID : FCC DoC  
Data Cable : Shielded  
Power Cord : N/A

4.4 REMARK :

5 EUT OPERATING CONDITION

- 5.1 Operating condition is according to ANSI C63.4 - 1992.
- 5.2 The oscillator frequency of the EUT were 15 ~ 60 KHz.
- 5.3 Turn on the power of all equipments.
- 5.4 Test program sent "H" pattern to peripherals as following :
  - 5.4.1 Printer
  - 5.4.2 Monitor
  - 5.4.3 Modem
  - 5.4.4 Keyboard

6 LIMIT OF CONDUCTED POWER LINE EMISSION CLASS B:

Frequency Range	dBuV	uV
0.45 ~ 1.705 MHz	48	250 uV
1.705 ~ 30 MHz	48	250 uV

6.1 In the above table, the tighter limit applies at the band edges.

7 RESULT OF CONDUCTED POWER LINE TEST (1)

7.1 The frequency range from 0.45 MHz to 30 MHz was investigated. All readings are quasi-peak values.

7.2 IF bandwidth : 9 kHz, Meas Time : 1 sec.

7.3 Temperature : 21 °C, Humidity : 72 % RH.

7.4 Deviations from the specifications : None

7.5 Quasi-Peak :

Frequency (MHz)	Line 1		Line 2		Limit	
	dBuV	uV	dBuV	uV	dBuV	uV
0.516	42.07	126.91	40.38	104.47	48	250
0.906	31.79	38.86	29.33	29.28	48	250
1.720	21.14	11.40	20.42	10.50	48	250
2.840	17.14	7.19	19.41	9.34	48	250
6.140	18.54	8.45	16.81	6.93	48	250
9.440	27.03	22.46	26.44	20.99	48	250
18.970	24.36	16.52	21.61	12.04	48	250
24.000	33.99	50.06	34.05	50.41	48	250

REMARK :

1. Model : 121TSA
2. Measuring mode : 800 x 600 46.875K
3. Uncertainty in conduction emission measured :  $< \pm 2.0\text{dB}$ .

Test Engineer :

*Jerry*

9 RESULT OF CONDUCTED POWER LINE TEST (2)

- 9.1 The frequency range from 0.45 MHz to 30 MHz was investigated. All readings are quasi-peak values.
- 9.2 IF bandwidth : 9 kHz, Meas Time : 1 sec.
- 9.3 Temperature : 21 °C, Humidity : 72 % RH.
- 9.4 Deviations from the specifications : None
- 9.5 Quasi-Peak :

Frequency (MHz)	Line 1		Line 2		Limit	
	dBuV	uV	dBuV	uV	dBuV	uV
0.513	42.15	128.09	40.44	105.20	48	250
0.900	31.59	37.98	29.47	29.75	48	250
1.720	19.57	9.52	35.20	57.54	48	250
2.920	15.11	5.70	17.61	7.59	48	250
5.240	17.54	7.53	18.45	8.37	48	250
9.980	26.12	20.23	25.84	19.59	48	250
16.630	24.63	17.04	24.24	16.29	48	250
26.560	25.41	18.64	30.34	32.89	48	250

REMARK :

1. Model : 121TSA
2. Measuring mode : 640 x 480 31.469K
3. Uncertainty in conduction emission measured : <math>\pm 2.0\text{dB}</math>.

Test Engineer : Jenny



**RADIATED EMISSION TEST**

**1 TEST INSTRUMENTS & FACILITIES**

The following test Instruments was used during the radiated emission test :

Item	Instruments /facilities	Specification	Manufacturer	Model # / S/N#	Location	Date of Cal.
1	SPECTRUM ANALYZER	9KHz ~ 1.8GHz	HP	HP8591 3710A06158	Open Site I	APR/99
2	EMI TEST RECEIVER	20MHz ~ 1GHz	ROHDE & SCHWARZ	ESVS10 845165/017	Open Site I	FEB/99
3	PRE-AMPLIFIER	0.1MHz ~ 1.3 GHz	HP	8447D 1937A02095	Open Site I	MAY/99
4	EMI TEST RECEIVER	20Hz ~ 26.5GHz	ROHDE & SCHWARZ	ESMI 845442/006	Open Site II	FEB/99
5	PRE-AMPLIFIER	20MHz ~ 7GHz	ROHDE & SCHWARZ	ESMI-Z7 846363/001	Open Site II	FEB/99
6	SIGNAL GENERATOR	9KHz ~ 2080MHz	ROHDE & SCHWARZ	SMY02 845096/018		FEB/99
7	ANTENNA (BI-LOG)	25MHz ~ 2GHz	ARA	LPB2520 S/N:1096	Open Site II	MAR/99
8	ANTENNA (BI-LOG)	25MHz ~ 2GHz	ARA	LPB2520 S/N:1095	Open Site I	MAR/99
9	CABLES			No. 2, No. 4 No. 1, No. 3	OATS 1 OATS 2	JUL/98 JUL/98
10	OPEN AREA TEST SITE	<input type="checkbox"/> OATS 1 <input checked="" type="checkbox"/> OATS 2				
11	ANTENNA (DIPOLE)	30 ~ 300MHz	ROHDE & SCHWARZ	HZ-12 842899/08		JAN/99
12	ANTENNA (DIPOLE)	300 ~ 1000MHz	ROHDE & SCHWARZ	HZ-13 842007/0004		JAN/99

Note : 1. Items 1 ~ 10 upon which need to calibrated are with period of 1 year.  
2. Items 11 ~ 12 upon which need to calibrated are with period of 3 year.

4 CONFIGURATION OF THE EUT  
 Same as “Conducted Power Line test”, section 4

5 EUT OPERATING CONDITION

5.1 Same as “Conducted Power Line test”, section 5

5.2 The radiated emission in the frequency range from 30 MHz - 1000 MHz was test in a horizontal and vertical polarization at HomeTek Lab’s open site II.

6 LIMIT OF RADIATED EMISSION CLASS B:

Frequency (MHz)	Measurement Distance	dBuV	uV/m
30 - 88	3 (M)	40	100
88 - 216	3 (M)	43.5	150
216 - 960	3 (M)	46	200
Above 960	3 (M)	54	500

6.1 The tighter limit shall apply at the edge between two frequency bands.

6.2 Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

7 RESULT OF RADIATED EMISSION TEST (1)

- 7.1 The frequency range from 30 MHz to 1 GHz was investigated. All readings are quasi-peak values with resolution bandwidth of 120 kHz.
- 7.2 The measurements above 1 GHz with a resolution bandwidth of 1 MHz are peak reading at 3 meters.
- 7.3 The measurements were made at 3 meters of HomeTek Lab's open site II.
- 7.4 Temperature : 21 °C, Humidity : 72 % RH.
- 7.5 Radiated Emission data : **Horizontal**

Frequency (MHz)	Reading Level (dBuV)	ANT factor (dBuV)	Cable Loss (dBuV)	Emission Level (dBuV)	Emission Level (uV/m)	Limit (dBuV)	Limit (uV/m)
66.09	23.12	8.51	0.48	32.11	40.32	40.0	100
119.52	25.02	12.01	0.58	37.61	75.95	43.5	150
151.45	27.39	9.82	0.75	37.96	79.07	43.5	150
225.95	26.29	13.33	0.94	40.56	106.66	46.0	200
278.91	22.50	14.68	0.98	38.16	80.91	46.0	200
300.70	23.82	15.11	1.07	40.00	100.00	46.0	200
312.09	20.95	15.21	1.12	37.28	73.11	46.0	200
600.90	19.79	20.47	1.68	41.94	125.03	46.0	200

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 600.90 MHz .
- Corrected Reading : ( 19.79 ) + ( 20.47 ) + ( 1.68 ) = 41.94 . (Emission Level)

7.6 Radiated Emission data : **Vertical**

Frequency (MHz)	Reading Level (dBuV)	ANT factor (dBuV)	Cable Loss (dBuV)	Emission Level (dBuV)	Emission Level (uV/m)	Limit (dBuV)	Limit (uV/m)
42.95	19.99	13.98	0.46	34.43	52.66	40.0	100
119.53	23.79	15.17	0.58	39.54	94.84	43.5	150
168.66	24.42	14.10	0.74	39.26	91.83	43.5	150
229.18	26.54	14.82	0.84	42.20	128.82	46.0	200
278.91	22.11	15.75	0.98	38.84	87.50	46.0	200
318.77	20.74	16.49	1.07	38.30	82.22	46.0	200
400.55	18.95	18.74	1.17	38.86	87.70	46.0	200
599.85	14.36	21.98	1.68	38.02	79.62	46.0	200

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 599.85 MHz .
- Corrected Reading : ( 14.36 ) + ( 21.98 ) + ( 1.68 ) = 38.02 . (Emission Level)

REMARK :

1. Model : 121TSA
2. Measuring mode : 800 x 600 46.875K
3. Uncertainty in radiated emission measured : <math>\pm 4.0\text{dB}</math>.

Test Engineer : Jerry

9 RESULT OF RADIATED EMISSION TEST (2)

- 9.1 The frequency range from 30 MHz to 1 GHz was investigated. All readings are quasi-peak values with resolution bandwidth of 120 kHz.
- 9.2 The measurements above 1 GHz with a resolution bandwidth of 1 MHz are peak reading at 3 meters.
- 9.3 The measurements were made at 3 meters of HomeTek Lab's open site II.
- 9.4 Temperature : 21 °C, Humidity : 72 % RH.
- 9.5 Radiated Emission data : **Horizontal**

Frequency (MHz)	Reading Level (dBuV)	ANT factor (dBuV)	Cable Loss (dBuV)	Emission Level (dBuV)	Emission Level (uV/m)	Limit (dBuV)	Limit (uV/m)
65.54	22.48	8.71	0.46	31.65	38.24	40.0	100
124.24	23.43	11.91	0.66	36.00	63.10	43.5	150
159.38	24.63	10.03	0.81	35.47	59.36	43.5	150
241.60	24.72	14.30	0.86	39.88	98.63	46.0	200
278.92	24.86	14.68	0.98	40.52	106.17	46.0	200
310.80	22.03	15.22	0.96	38.21	81.38	46.0	200
342.66	23.38	15.72	1.09	40.19	102.21	46.0	200
598.46	18.73	20.48	1.46	40.67	108.02	46.0	200

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 598.46 MHz .
- Corrected Reading : ( 18.73 ) + ( 20.48 ) + ( 1.46 ) = 40.67 . (Emission Level)

9.6 Radiated Emission data : **Vertical**

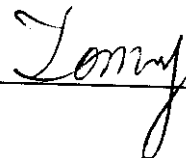
Frequency (MHz)	Reading Level (dBuV)	ANT factor (dBuV)	Cable Loss (dBuV)	Emission Level (dBuV)	Emission Level (uV/m)	Limit (dBuV)	Limit (uV/m)
42.97	20.90	13.98	0.46	35.34	58.48	40.0	100
119.50	21.19	15.17	0.58	36.94	70.31	43.5	150
151.45	25.78	11.44	0.75	37.97	79.16	43.5	150
159.38	25.31	11.66	0.81	37.78	77.45	43.5	150
167.36	22.96	13.18	0.84	36.98	70.63	43.5	150
278.93	21.51	15.75	0.98	38.24	81.66	46.0	200
598.94	13.47	21.76	1.46	36.69	68.31	46.0	200

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 598.94 MHz .
- Corrected Reading : ( 13.47 ) + ( 21.76 ) + ( 1.46 ) = 36.69 . (Emission Level)

REMARK :

1. Model : 121TSA
2. Measuring mode : 640 x 480 31.469K
3. Uncertainty in radiated emission measured : <math>< \pm 4.0\text{dB}</math>.

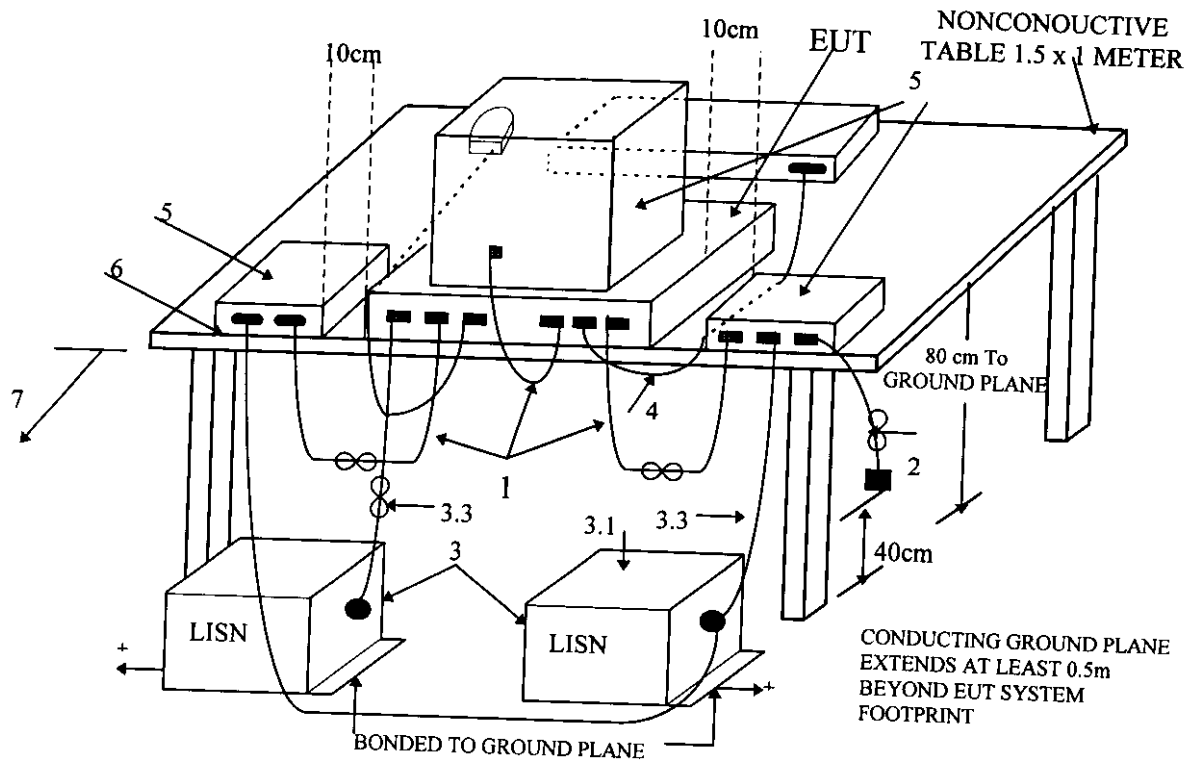
Test Engineer :



### 3 TEST SETUP

#### 3.1 Typical : Setup Of Conducted Test

ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE RANGE OF 9kHz TO 40 GHz ANSI C63.4-1992



+LISNs may have to be moved to the side to meet 3.3 below.

**LEGEND:**

1. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 to 40 cm long, hanging approximately in the middle between ground plane and table.
2. I/O cables that are connected to a peripheral shall be bundled in center. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1m.
3. EUT connected to one LISN. Unused LISN connectors shall be terminated in 50 Ω. LISN can be placed on top of, or immediately beneath, ground plane.
  - 3.1 All other equipment powered from second LISN.
  - 3.2 Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
  - 3.3 LISN at least 80 cm from nearest part of EUT chassis.
4. Cables of hand-operated devices, such as keyboards, mice, etc., have to be placed as close as possible to the host.
5. Non-EUT components being tested.
6. Rear of EUT, including peripherals, shall be all aligned and flush with rear of tabletop.
7. Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the floor ground plane (see 5.2).

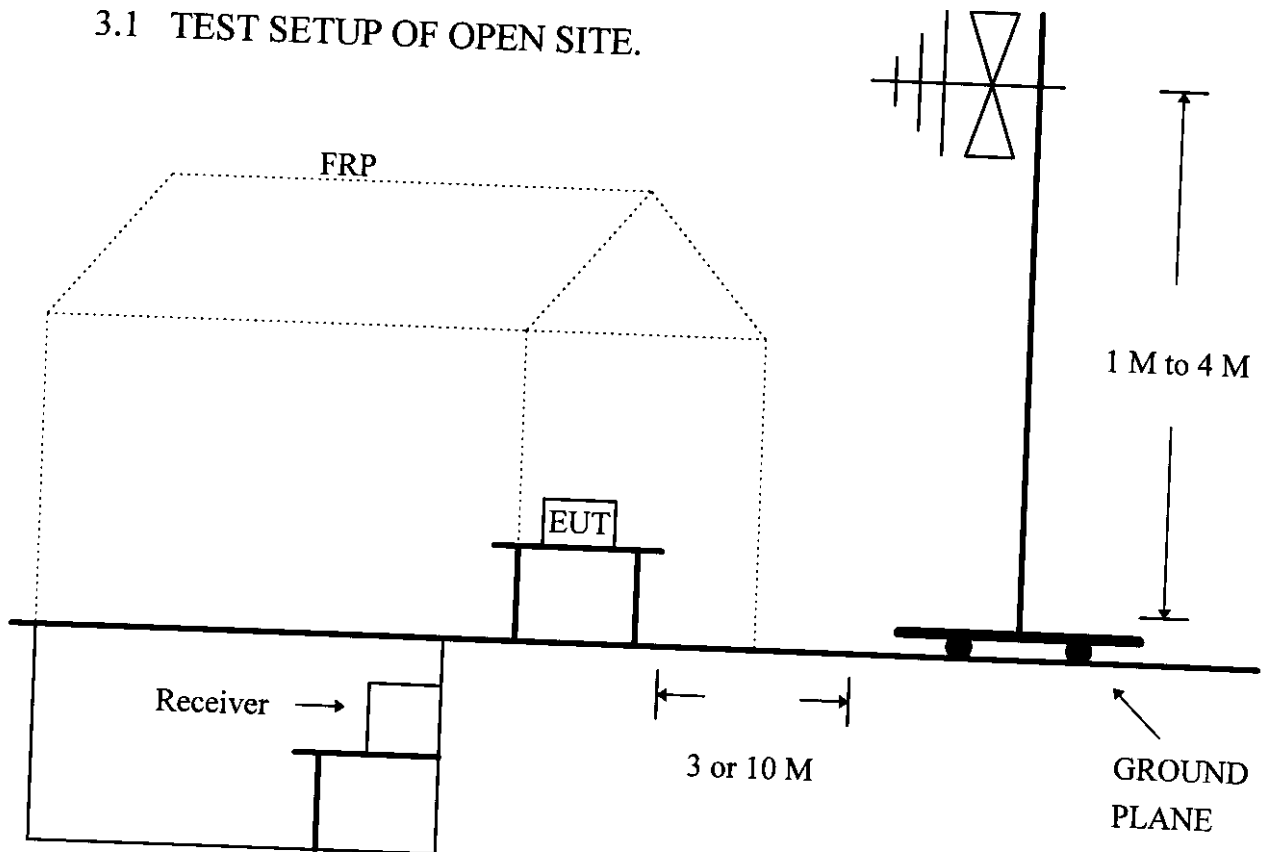
**Test Configuration  
Tabletop Equipment Conducted Emission**

## 2 TEST PROCEDURE

- 2.1 The EUT was test according to ANSI C63.4 - 1992.
- 2.2 The radiated test was performed at HomeTek Lab's Open Site II.
- 2.3 This site is on file with the FCC laboratory division, reference 31040/site 1300F2, Date : August 22, 1997.
- 2.4 The frequency range from 30 MHz to 1 GHz, the measurement were made at 3 meters, with a BI-log antenna.

## 3 TEST SETUP

### 3.1 TEST SETUP OF OPEN SITE.

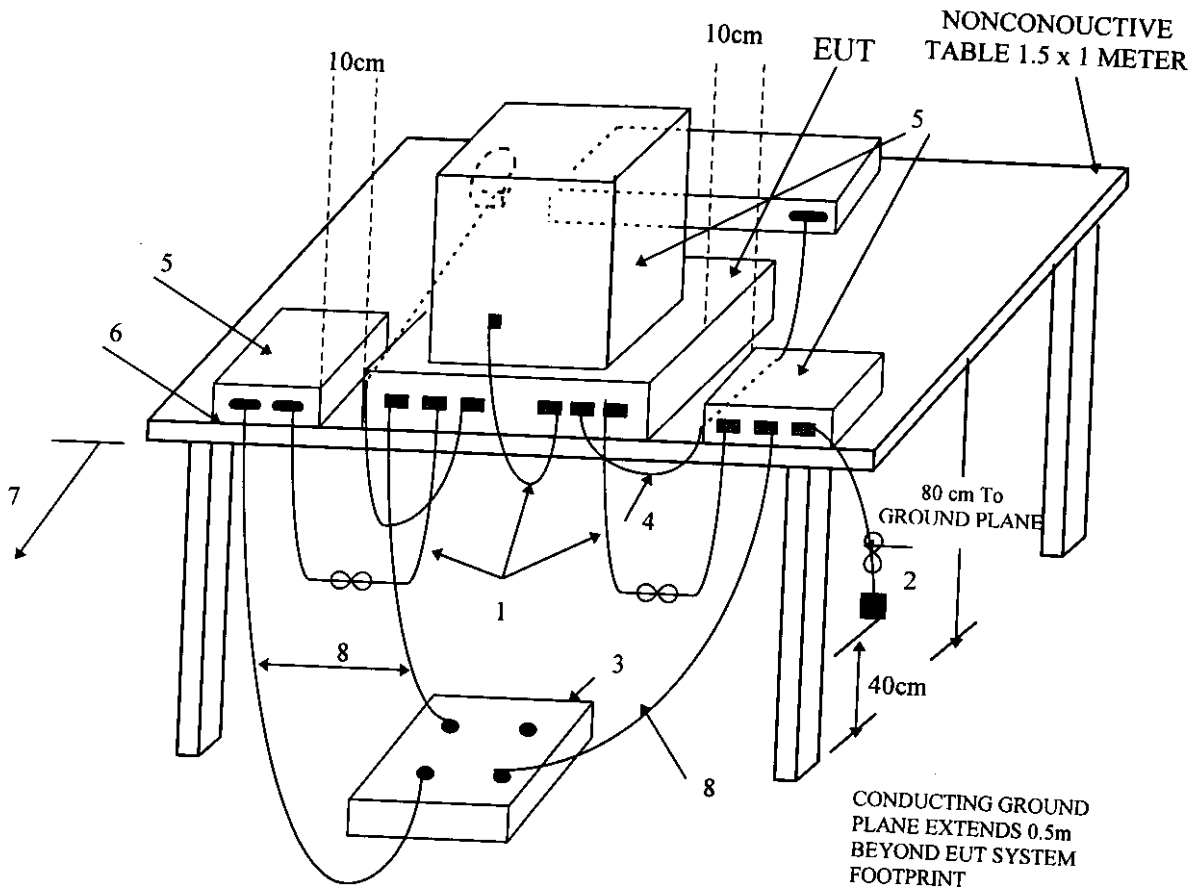




### 3.2 TEST SET OF EUT

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

ANSI C63.4-1992



**LEGEND:**

1. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 to 40 cm long, hanging approximately in the middle between ground plane and table.
2. I/O cables that are connected to a peripheral shall be bundled in center. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1m.
3. If LISNs are kept in the test setup for radiated emissions, it is preferred that they be installed under the ground plane with the receptacle flush with the ground plane.
4. Cables of hand-operated devices, such as keyboards, mouses, etc., have to be placed as close as possible to the controller.
5. Non-EUT components of EUT system being tested.
6. The rear of all components of the system under test shall be located flush with the rear of the table.
7. No vertical conducting wall used.
8. Power cords drape to the floor and are routed over to receptacle.

**Test Configuration  
Tabletop Equipment Radiated Emission**