

Certificate of Test

August 2004

WinMate Communication INC.

Product Type : 15" POS Touch Monitor & Open Frame

Model Number : see the report page 1

Brand Name : WinMate

Test Report Number : GTK-0408001

Date of Test : August 06, 2004 – August 09, 2004

This Product was tested to the following standards at the laboratory of Global EMI Standard Tech. Corp., and found Compliance.

Standards:

CFR 47, Part 15 / CISPR 22 3rd Edition: 1997, Class B

ANSI C63.4: 2001

Canadian ICES-003

<http://www.gestek.com.tw>



Sharon Chang, President

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Date: August 23, 2004



Accredited Laboratory



DECLARATION OF CONFORMITY

Per FCC Part 2 Section 2. 1077(a)



hereby declares that the product

Product Name: 15" POS Touch Monitor & Open Frame
Model Number: POS2200, POS2200-OF, POS2200-TS,
POS2200-OF/TS, WN2200, WN2200-OF, WN2200-TS,
WN2200-OF/TS, R15T600PS, R15T600PS-OF,
R15T600PS-TS, R15T600PS-OF/TS, R15T630PS,
R15T630PS-OF, R15T630PS-TS, R15T630PS-OF/TS,
R15T800PS, R15T800PS-OF, R15T800PS-TS,
R15T800PS-OF/TS, R15T830PS, R15T830PS-OF,
R15T830PS-TS, R15T830PS-OF/TS, R15L600PS,
R15L600PS-OF, R15L600PS-TS, R15L600PS-OF/TS,
R15L630PS, R15L630PS-OF, R15L630PS-TS,
R15L630PS-OF/TS, R15L800PS, R15L800PS-OF,
R15L800PS-TS, R15L800PS-OF/TS, R15L830PS,
R15L830PS-OF, R15L830PS-TS, R15L830PS-OF/TS,
TTX-9154PS, TTX-9154PS-OF, TTX-9154PS-TS,
TTX-9154PS-OF/TS

Conforms to the following specifications:

CISPR 22, Subpart B, Section 15.107(a) and Section 15.109(a),
Class B Digital Device

Supplementary Information:

This device complies with part 15 & CISPR 22 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Representative Person's Name : _____

Signature : _____

Date : _____



**Test Report
Application for
Declaration of Conformity
On Behalf Of**

WinMate Communication Inc.

EUT: 15" POS Touch Monitor & Open Frame

Model Number:

**POS2200, POS2200-OF, POS2200-TS, POS2200-OF/TS,
WN2200, WN2200-OF, WN2200-TS, WN2200-OF/TS,
R15T600PS, R15T600PS-OF, R15T600PS-TS, R15T600PS-OF/TS,
R15T630PS, R15T630PS-OF, R15T630PS-TS, R15T630PS-OF/TS,
R15T800PS, R15T800PS-OF, R15T800PS-TS, R15T800PS-OF/TS,
R15T830PS, R15T830PS-OF, R15T830PS-TS, R15T830PS-OF/TS,
R15L600PS, R15L600PS-OF, R15L600PS-TS, R15L600PS-OF/TS,
R15L630PS, R15L630PS-OF, R15L630PS-TS, R15L630PS-OF/TS,
R15L800PS, R15L800PS-OF, R15L800PS-TS, R15L800PS-OF/TS,
R15L830PS, R15L830PS-OF, R15L830PS-TS, R15L830PS-OF/TS,
TTX-9154PS, TTX-9154PS-OF, TTX-9154PS-TS, TTX-9154PS-OF/TS**

Prepared for:

WinMate Communication Inc.

**9F, No. 111-6, Shing-De Rd., San-Chung City, Taipei 241,
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1. CERTIFICATION

Applicant : WinMate Communication Inc.
 EUT Description : 15" POS Touch Monitor & Open Frame
 Model Number : See the page 1
 Brand Name : WinMate
 Serial Number : N/A
 Tested Power Supply : 110V/60Hz

MEASUREMENT PROCEDURES USED:

- CFR 47, Part 15** Radio Frequency Device Subpart B Unintentional Radiators Class B: 2000
- CISPR 22 3rd Edition:1997** Limits and methods of measurement of radio disturbance Characteristics of information technology equipment: 1997
- ANSI C63.4** Methods of Measurements of Radio-Noise Emissions from Low- Voltage Electrical and Electronic Equipment in the range of 9kHz To 40GHz. 2001

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



Sample Received Date : **August 06, 2004**
 Final Test Date : **August 09, 2004**

In order to ensure the quality and accuracy of this document, the contents have been thoroughly reviewed by the following qualified personnel from GestTek Lab.

Documented By : <u>Rini Chen</u> Rini Chen / adm. Dept. Supervisor	Administrative Review By : <u>Rini Chen</u> Rini Chen / adm. Dept. Supervisor
Technical Review By : <u>Ivan Hsieh</u> Ivan Hsieh / eng. Dept. Engineer	Approved By : <u>Tony Lin</u> Tony Lin / General Manager

This test data shown below is traceable to National or international standard such as NIST/USA, etc. The laboratory's NVLAP accreditation in no way constitutes or implies product certification, approval, or endorsement by NVLAP or the United States government.

2. SUMMARY OF TEST RESULTS

The Worst Emission data was found as following

STANDARD	TEST ITEM	TEST RESULT	REMARKS
(1)FCC Part 15 (2)CISPR 22 3 rd Edition:1997	Conducted emission (Mode 2)	PASS	The worst emission frequency is <u>1.0090</u> MHz. And minimum passing margin is <u>-2.94</u> dB.
(3)Canadian ICES-003. Class B	Radiated emission (Mode 2)	PASS	The worst emission frequency is <u>73.229</u> MHz at <u>Vertical</u> . And minimum passing margin is <u>-4.17</u> dB. Height of antenna is <u>1.0</u> M. Angle of turntable is <u>250°</u> .

3. GENERAL INFORMATION

3.1 PRODUCTION DESCRIPTION

Product Name	: 15" LCD Touch Monitor & Open Frame
Model Number	: See the page 1
Brand Name	: WinMate
Serial Number	: N/A
Applicant	: WinMate Communication Inc.
Address	: 9F, No. 111-6, Shing-De Rd., San-Chung City, Taipei 241, Taiwan, R.O.C.
Manufacturer	: WinMate Communication Inc.
Address	: 9F, No. 111-6, Shing-De Rd., San-Chung City, Taipei 241, Taiwan, R.O.C.
Power Supply	: Input:100-240Vac, 47-63Hz, 1A Max Output:+12Vdc, 4A, 48W Max
Power Cord	: 3Pins, Non-Shielded, Detachable, 1.8m

3.2 TEST MODES & EUT COMPONENTS DESCRIPTION

EUT: 15" LCD Touch Monitor & Open Frame		
Test Mode	Mode 1 (DVI)	Mode 2 (D-Sub)
Adaptor	CHI, M/N:CH-1204, BSMI ID:4882A240, Input:100-240Vac, 47-63Hz, 1A Max Output:+12Vdc, 4A, 48W Max	
Resolution	1024 x 768, V-Sync:75Hz	

Note:

1. According to pre-scan data, we determine the data shown in this test report, which reflects the worst-case data for each operation mode.
2. The EUT has serial model numbers for the requirement of marketing.

3.3 CONFIGURATION OF THE TESTED SYSTEM

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

Device	No.	Configuration
PS2 Keyboard	K01-092	Manufacturer : IBM Model Number : SK-8811 Serial Number : 01979618 BSMI ID : 3902B330 FCC ID : N/A Data Cable : Shielded, Undetachable, 1.8 m
PS2 Mouse	M02-295	Manufacturer : IBM Model Number : MU29J Serial Number : 23021308 BSMI ID : 3902A581 FCC ID : N/A Data Cable : Shielded, Undetachable, 1.5m
Printer	P01-016	Manufacturer : Hewlett Packard Model Number : 2225C Serial Number : 2548S40426 BSMI ID : 3892A957 FCC ID : BS46XU2225C Data Cable : Shielded, Detachable, 1.2m, Parallel Cable Power Cord : Non-Shielded, Detachable, 1.8m
Video Camera Recorder (Hi 8)	V01-001	Manufacturer : SONY CORPORATION Model Number : CCD-TRV87 Serial Number : N/A BSMI ID : N/A AC Power Adaptor : M/N:AC-L10A Input:AC IN:100-240V 50/60Hz 23W Output:DC 8.4V/1.5A Battery Pack(Li-ion) : M/N:NP-F330 Input :DC 7.2V/5.0Wh
Cassette Player	R02-020	Manufacturer : AIWA CO., LTD. Model Number : HS-TA166 Serial Number : S34LI03R0424 BSMI ID : N/A FCC ID : N/A Date Cable : Non-Shielded, Detachable, 1.5m, Coaxial Cable Power Cord : N/A (Battery)

Device	No.	Configuration
PC System	DELL PC 5	Model Number : Dimension 4600 BSMI ID : R33002 Serial Number : FW4NB1S C.P.U : Intel Pentium 4 2.8GHz/533MHz DDR : HYNIX PC2700 128M *2 VGA : Manufacturer :ASUS M/N:A9600SE/TD/128M/A S/N:43CG121912 BSMI ID:D3005 H.D.D. : Manufacturer : WD 40G M/N:WD400BB-75FJA1 BSMI ID:D33015 CD-RW/DVD-ROM : Manufacturer :Toshiba M/N:sw-252 BSMI ID:D33020 Mother Board : DELL, M/N:E210882 S.P.S : DELL, M/N:NPS-250KB F Input: 100-120V, 9A, 200-240V, 4.5A, 50/60 Hz Output:+5V/22A,-12V/1A,+12V/16A,+3.3V/18A +5VSB/2A BSMI ID:D33002

3.4 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.

(For frequencies below 1000MHz)

3.5 TEST FACILITY

Ambient conditions in the laboratory:

ITEMS	REIQUIRED(IEC 68-1)	ACTUAL
TEMPERATURE (°C)	15-35	24-27
HUMIDITY (%RH)	25-75	50-65
BAROMETRIC PRESSURE (mbar)	860-1060	950-1000
FCC SITE DESCRIPTION	Aug. 10, 1995 /Aug. 25, 1998 File on FCC Engineering Laboratory Federal Communication Commission 7435 Oakland Mills Road Columbia, MD 21046 Reference 31040/SIT1300F2	
NVLAP LAB. CODE	200085-0 United Stated Department of commerce National Institute of Standards and Technology National Voluntary Laboratory Accreditation Program Accreditation on NVLAP effective through Sep. 30,2004 For CISPR 22, FCC Method and AS/NZS 3548 Measurement.	
Chinese National Laboratory Accreditation Certificate R.O.C. 	Recognized by the Council of Chinese National Laboratory Accreditation and confirmed to meet the requirements of ISO/IEC 17025 also has been registered for fifteen items, and meet the requirements of the Article 4 of Measures Governing the Recognition both Approval of Designated Laboratory for Commodities Inspection and has been registered for four items within the field of Electrical Testing. Registration No.: 1082 Registration on CNLA effective through April 30, 2006.	

4. CONDUCTED EMISSION MEASUREMENT

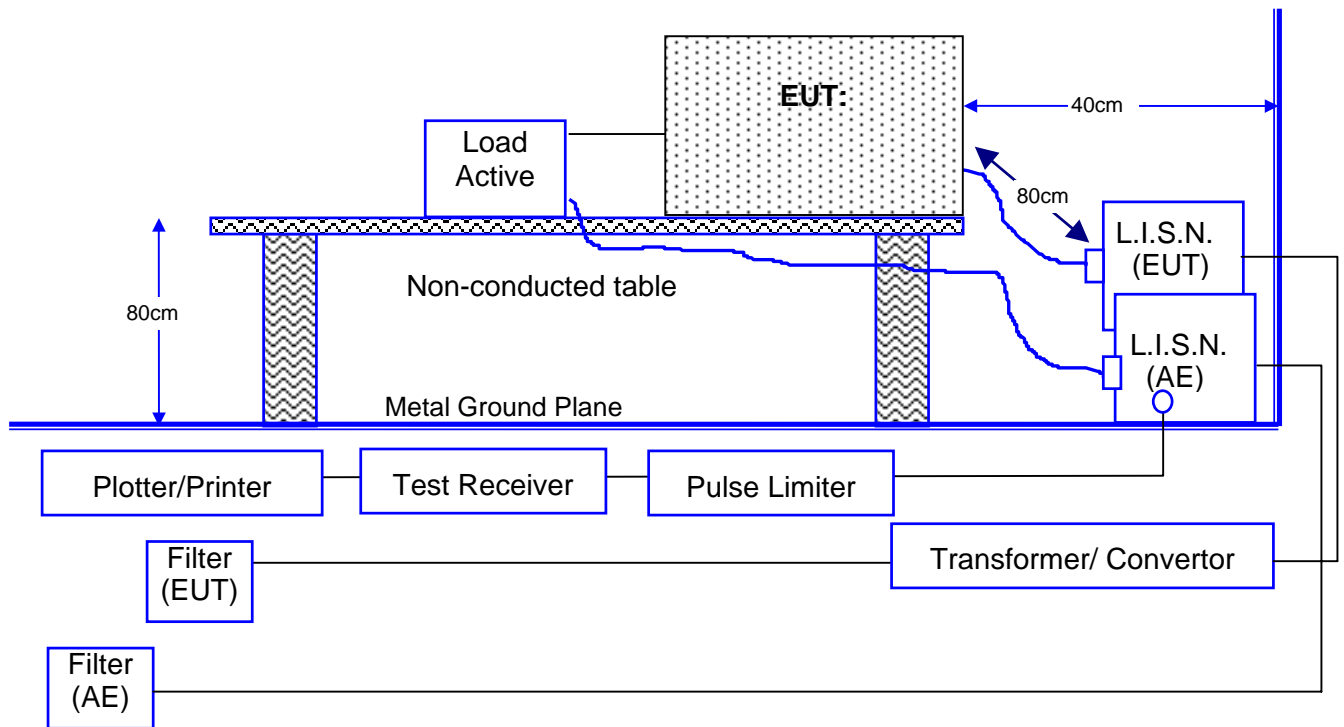
4.1 TEST EQUIPMENTS

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

Item	Instrument	Manufacturer	Model	Serial No.	Last Cal. Date
1	Test Receiver	Rohde & Schwarz	ESHS30	828109/010	12/22/03
2	L.I.S.N. (EUT)	KYORITSU	KNW-407	8-1345-10	11/20/03
3	L.I.S.N. (AE)	ROLF HEINE	NNB-2/16Z	98091	12/08/03
3	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	357.8810.52	08/06/04
4	50 Ohm Terminator	GesTek	N/A	GTK-E-A130-01	10/11/03
5	Shielded Room	GesTek	N/A	B5	N/A

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

4.2 BLOCK DIAGRAM OF TEST SETUP



4.3 CONDUCTED EMISSION LIMIT

FCC Limit

Frequency	Maximum RF Line Voltage			
	Class A		Class B	
MHz	μV	$dB\mu V$	μV	$dB\mu V$
0.45 to 1.705	1000	60.0	250	48.0
1.705 to 30	3000	69.5	250	48.0

Remarks : 1. RF Line Voltage ($dB\mu V$) = $20 \log$ RF Line Voltage (μV).
 2. In the Above Table, the tighter limit applies at the band edges.

CISPR Limit

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

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

4.4 EUT CONFIGURATION ON MEASUREMENT

The equipments that are listed 4.1 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.

The device under test, installed in a representative system as described in section 4.2, was placed on a non-conductive table whose total height equal to 80cm. Powered from one L.I.S.N. which signal output to receiver, and the other peripherals was powered from another L.I.S.N. which signal output was terminated by 50Ω .

4.5 CONDUCTED EMISSION DATA

The measurement range of conducted emission, which is from **0.15 MHz to 30 MHz**, was investigated. All readings are quasi-peak and average values with a resolution Bandwidth of 9 KHz. 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.

4.6 OPERATING CONDITIONS OF THE EUT

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:

1. Setup the EUT and simulators as shown on 4.2.
2. Turn on the power of all equipments.
3. Boot the P.C. from Hard Disk and setup the video to windows XP OS, active all devices.
4. Adjust to appropriate video resolution.
5. Run "EMC TEST" test program under Windows XP OS.
6. P.C. sent "H" pattern to monitor, make the "H" pattern full in the screen.
7. P.C. sent "H" pattern to parallel and serial port.
8. Repeat above steps.

4.7 CONDUCTED EMISSION MEASUREMENT RESULTS

Date of Test	August 09, 2004	Temperature	25
EUT	15" LCD Touch Monitor & Open Frame	Humidity	62 %
Test Mode	Mode 1	Display Pattern	H Pattern

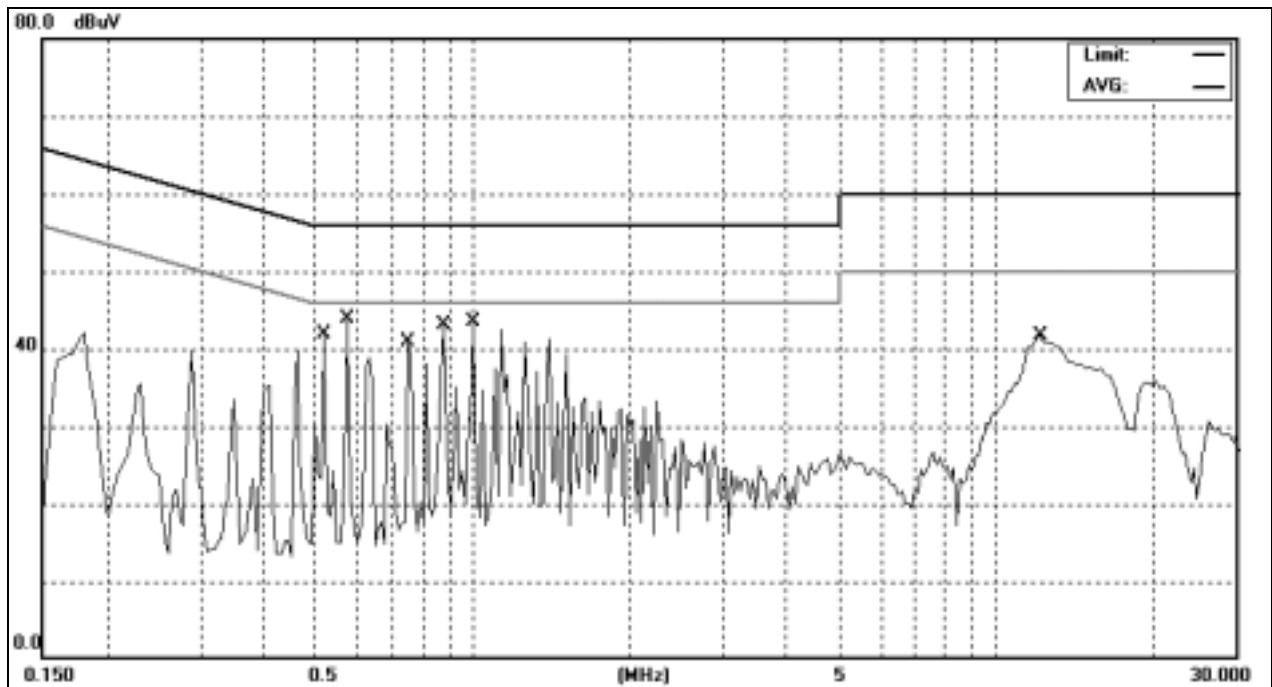
Line

No.	Frequency MHz	Reading Level dBµV	Factor dB	Measurement dBµV/m	Limit dBµV/m	Over Limit dB	Detector
1	0.5212	31.36	10.1	41.46	56	-14.54	QP
2	0.5212	30.39	10.1	40.49	46	-5.51	AVG
3	0.5792	34.26	10.1	44.36	56	-11.64	QP
4	0.5792	32.9	10.1	43	46	-3	AVG
5	0.757	32.31	10.1	42.41	56	-13.59	QP
6	0.757	31.08	10.1	41.18	46	-4.82	AVG
7	0.8823	33.06	10.1	43.16	56	-12.84	QP
8	0.8823	32.61	10.1	42.71	46	-3.29	AVG
9	1.0092	33.44	10.1	43.54	56	-12.46	QP
10	1.0092	32.69	10.1	42.79	46	-3.21	AVG
11	12.3939	29.4	10.49	39.89	60	-20.11	QP
12	12.3939	25.65	10.49	36.14	50	-13.86	AVG

Remarks :

- 1 All readings are Quasi-peak and Average values.
- 2 " " means that this data is the worse case emission level.
- 3 Final measurement = (Receiver reading) + (Factor if available).

Line



Date of Test	August 09, 2004	Temperature	25
EUT	15" LCD Touch Monitor & Open Frame	Humidity	62 %
Test Mode	Mode 1	Display Pattern	H Pattern

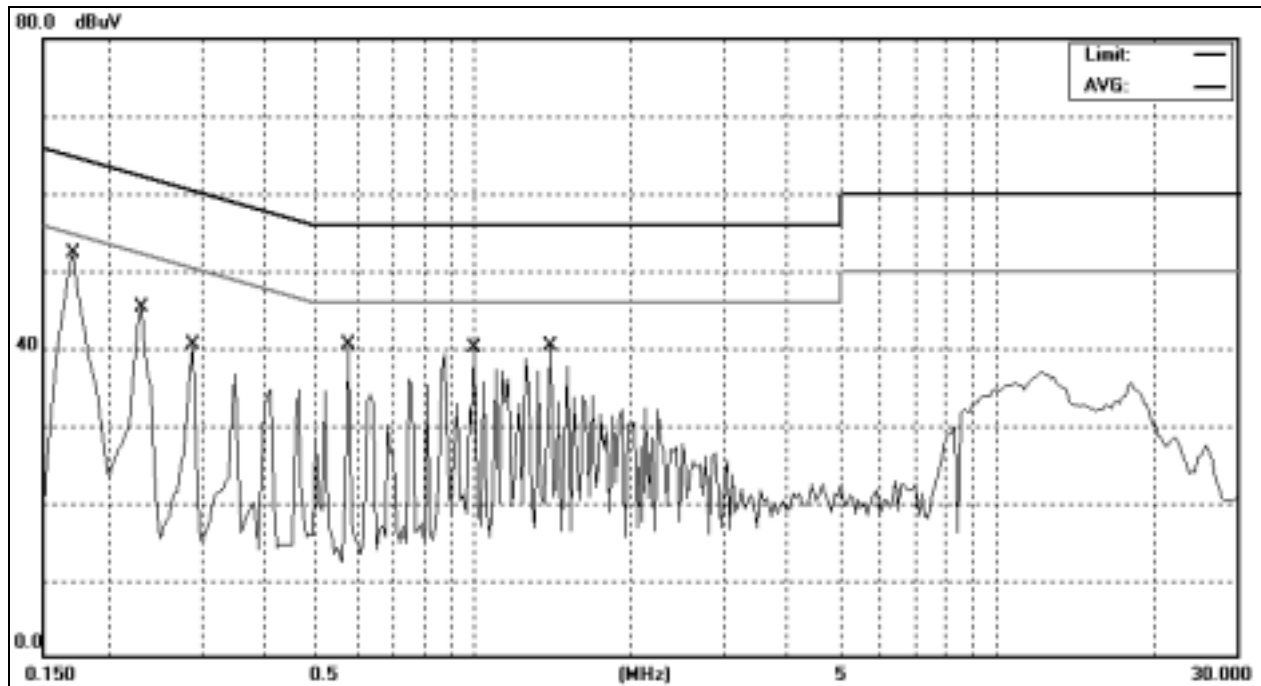
Neutral

No.	Frequency MHz	Reading Level dB μ V	Factor dB	Measurement dB μ V/m	Limit dB μ V/m	Over Limit dB	Detector
1	0.1723	44.25	10.25	54.5	64.85	-10.35	QP
2	0.1723	36.55	10.25	46.8	54.85	-8.05	AVG
3	0.2304	34.86	10.18	45.04	62.44	-17.4	QP
4	0.2304	28.06	10.18	38.24	52.44	-14.2	AVG
5	0.2896	30.03	10.15	40.18	60.54	-20.36	QP
6	0.2896	23.82	10.15	33.97	50.54	-16.57	AVG
7	0.5795	30.09	10.1	40.19	56	-15.81	QP
8	0.5795	28.98	10.1	39.08	46	-6.92	AVG
9	1.0081	30.23	10.1	40.33	56	-15.67	QP
10	1.0081	29.79	10.1	39.89	46	-6.11	AVG
11	1.3893	29.09	10.1	39.19	56	-16.81	QP
12	1.3893	25.33	10.1	35.43	46	-10.57	AVG

Remarks :

- 1 All readings are Quasi-peak and Average values.
- 2 " " means that this data is the worse case emission level.
- 3 Final measurement = (Receiver reading) + (Factor if available).

Neutral



Date of Test	August 09, 2004	Temperature	25
EUT	15" LCD Touch Monitor & Open Frame	Humidity	62 %
Test Mode	Mode 2	Display Pattern	H Pattern

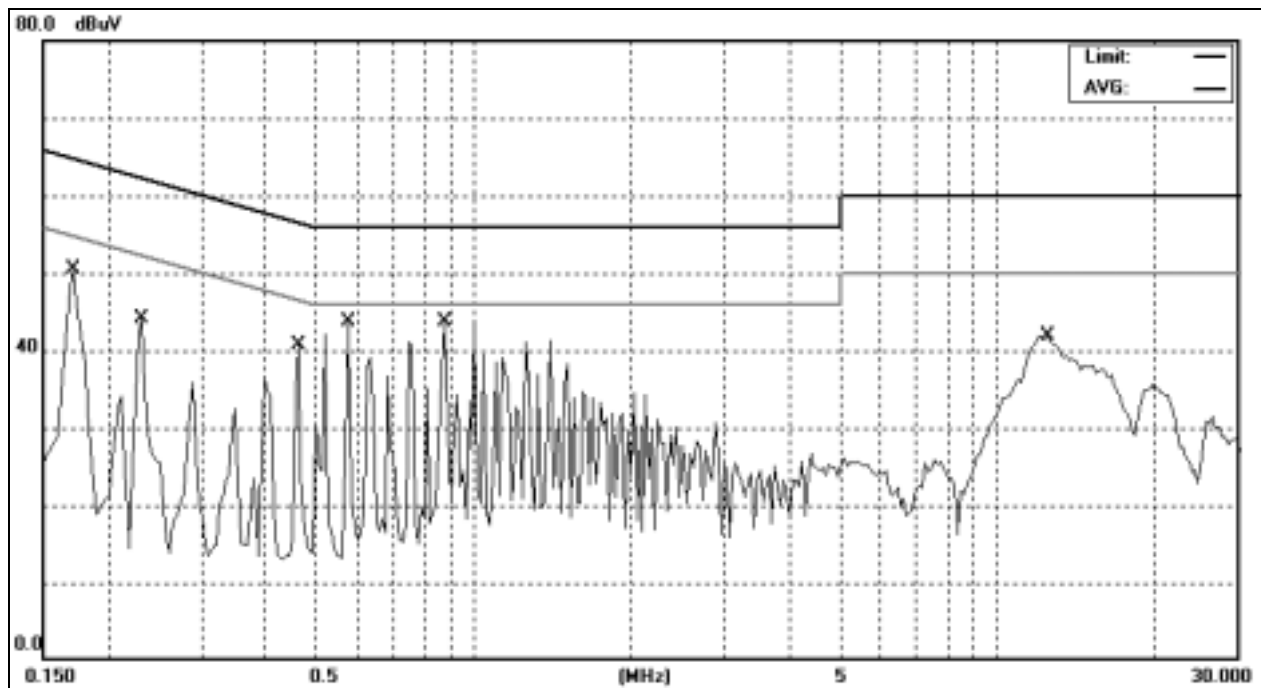
Line

No.	Frequency MHz	Reading Level dB μ V	Factor dB	Measurement dB μ V/m	Limit dB μ V/m	Over Limit dB	Detector
1	0.1723	42.15	10.25	52.4	64.85	-12.45	QP
2	0.1723	36.21	10.25	46.46	54.85	-8.39	AVG
3	0.229	32.74	10.19	42.93	62.49	-19.56	QP
4	0.229	26.11	10.19	36.3	52.49	-16.19	AVG
5	0.4613	31.31	10.1	41.41	56.67	-15.26	QP
6	0.4613	30.26	10.1	40.36	46.67	-6.31	AVG
7	0.5784	33.36	10.1	43.46	56	-12.54	QP
8	0.5784	32.36	10.1	42.46	46	-3.54	AVG
9	0.8827	33.02	10.1	43.12	56	-12.88	QP
10	0.8827	32.46	10.1	42.56	46	-3.44	AVG
11	12.7868	28.65	10.52	39.17	60	-20.83	QP
12	12.7868	24.61	10.52	35.13	50	-14.87	AVG

Remarks :

- 1 All readings are Quasi-peak and Average values.
- 2 " " means that this data is the worse case emission level.
- 3 Final measurement = (Receiver reading) + (Factor if available).

Line



Date of Test	August 09, 2004	Temperature	25
EUT	15" LCD Touch Monitor & Open Frame	Humidity	62 %
Test Mode	Mode 2	Display Pattern	H Pattern

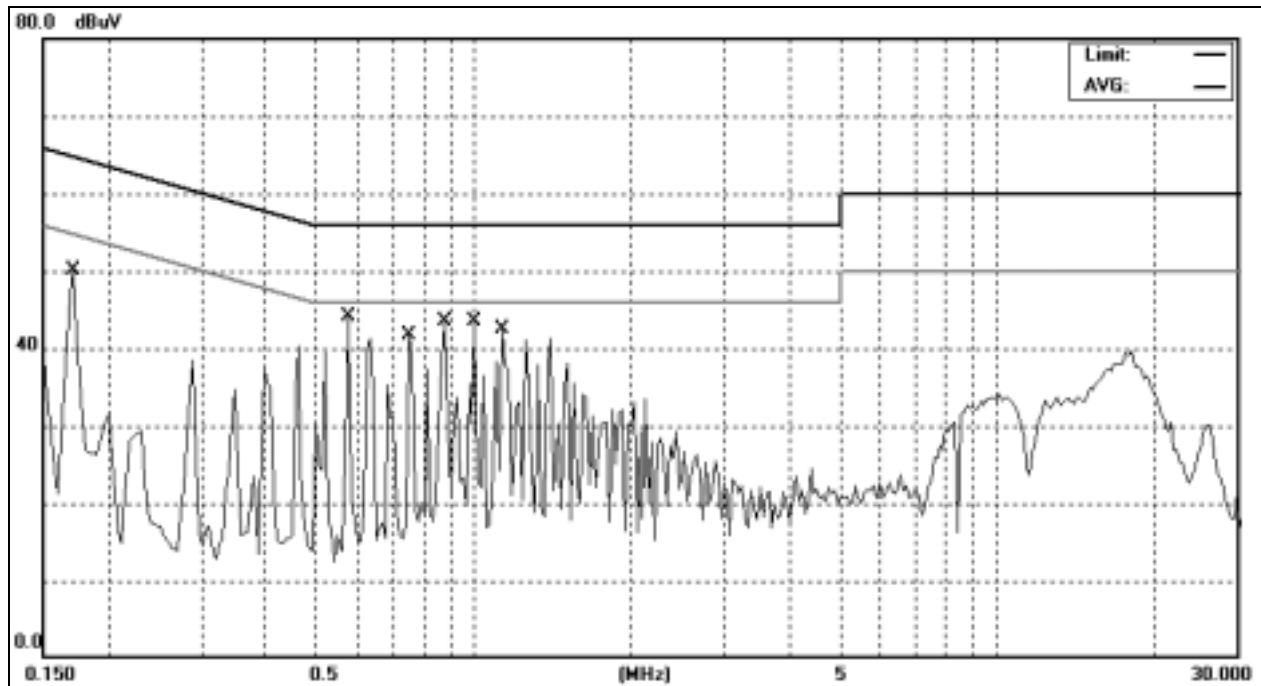
Neutral

No.	Frequency MHz	Reading Level dB μ V	Factor dB	Measurement dB μ V/m	Limit dB μ V/m	Over Limit dB	Detector
1	0.173	41.76	10.25	52.01	64.82	-12.81	QP
2	0.173	36.81	10.25	47.06	54.82	-7.76	AVG
3	0.5795	34.18	10.1	44.28	56	-11.72	QP
4	0.5795	32.92	10.1	43.02	46	-2.98	AVG
5	0.7552	33.4	10.1	43.5	56	-12.5	QP
6	0.7552	31.77	10.1	41.87	46	-4.13	AVG
7	0.8827	33.06	10.1	43.16	56	-12.84	QP
8	0.8827	32.52	10.1	42.62	46	-3.38	AVG
9	1.009	33.58	10.1	43.68	56	-12.32	QP
10	1.009	32.96	10.1	43.06	46	-2.94	AVG
11	1.1329	32.24	10.1	42.34	56	-13.66	QP
12	1.1329	31.74	10.1	41.84	46	-4.16	AVG

Remarks :

- 1 All readings are Quasi-peak and Average values.
- 2 " " means that this data is the worse case emission level.
- 3 Final measurement = (Receiver reading) + (Factor if available).

Neutral



5. RADIATED EMISSION MEASUREMENT

5.1 TEST EQUIPMENT

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

Radiated emission measurement was performed at: Site #1 Site #2 Site #3 Site #4

Item	Instrument	Manufacturer	Model	Serial No.	Last Cal. Date
1	Test Receiver	Rohde & Schwarz	ESCS30	825022/003	06/26/04
2	Spectrum Analyzer	ADVANTEST	R3272	82420372	07/08/04
3	Pre-Amplifier	HP	8447D	2944A08273	10/10/03
4	BILOG Antenna	Chase	CBL6112B	2580	12/01/03
5	RF Cable	GTK-E-A150-01	N/A	12/22/03	12/22/03
6	Open Site	GesTek	B2	N/A	N/A

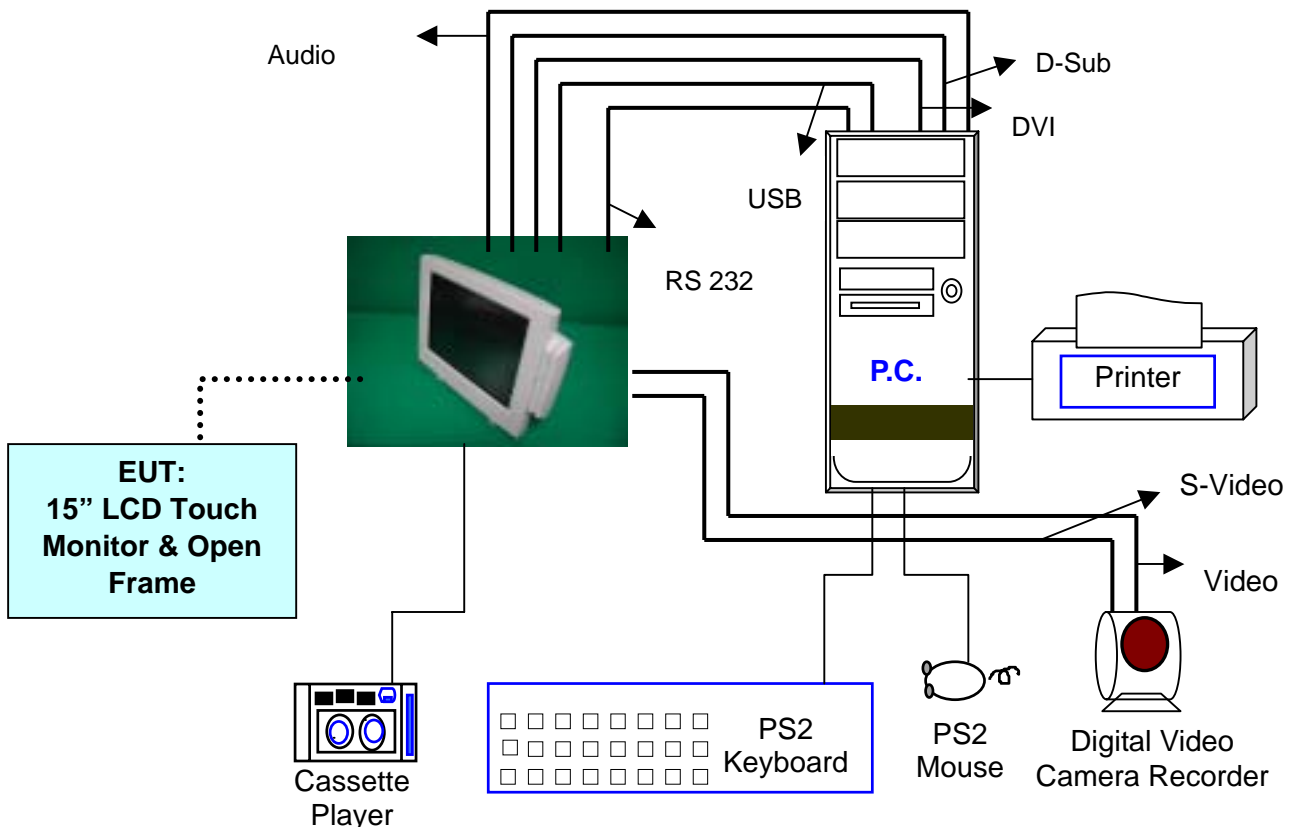
Note: All equipment upon which need to calibrated are with calibration period of 1 year.

5.2 TEST SETUP

5.2.1 BLOCK DIAGRAM OF CONNECTIONS BETWEEN EUT AND SIMULATORS

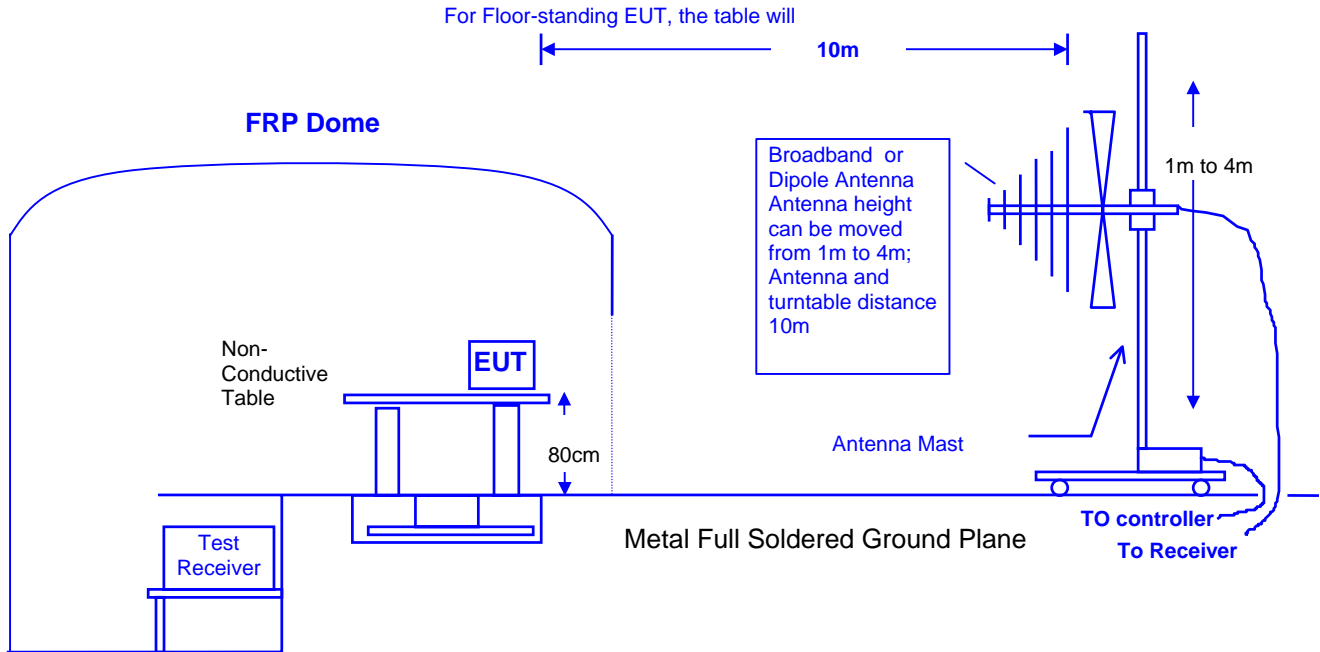
Note: This is a comprehensive setup diagram for Table-top EUT.

For Floor-standing EUT, the table will be removed with all others setup condition remain the same.



5.3 OPEN TEST SITE SETUP DIAGRAM

Note: This is a comprehensive setup diagram for Table-top EUT.



5.4 RADIATED EMISSION LIMIT

FCC Class B Limit at 3m

Frequency	Distance	Field Strength	
		$\mu\text{V}/\text{M}$	$\text{dB}\mu\text{V}/\text{M}$
MHz	Meter		
30 to 88	3	100	40.0
88 to 216	3	150	43.5
216 to 960	3	200	46.0
Above 960	3	500	54.0

Note: The frequencies above 1000MHz, as measured using instrumentation with a peak detector function was corresponding to 20dB above the maximum permitted average limit.

(Refer 47CFR Ch. 1 (10-1-98 Edition §15.35(b))

FCC Class A Limit at 10m

Frequency	Distance	Field Strength	
		$\mu\text{V}/\text{M}$	$\text{dB}\mu\text{V}/\text{M}$
MHz	Meter		
30 to 88	10	90	39.0
88 to 216	10	150	43.5
216 to 960	10	210	46.4
Above 960	10	300	49.5

Remark :1. The tighter 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.

CISPR Class B Limit at 10m

Frequency	Distance	Field Strength
MHz	Meter	dB(μ V/M)
30 to 230	10	30
230 to 1000	10	37

Remark :1. The tighter 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.

5.5 EUT CONFIGURATION

The equipment which is listed 5.1 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.

The device under test, installed in a representative system as described in section 5.2.2, was placed on a non-conductive table whose total height equaled 80 cm. This table can be rotated 360 degree. The measurement antenna was mounted to a non-conductive mast capable of moving the antenna vertically. Antenna height was varied from 1 meter to 4 meters and the system under test was rotated from 0 degree through 360 degrees relative to the antenna position and polarization (Horizontal and Vertical). Also the I/O cable position was investigated to find the maximum emission condition.

5.6 OPERATING CONDITION OF EUT

Same as section 4.6.

5.7 RADIATED EMISSION DATA

The measurement range of radiated emission, which is from **30 MHz to 1GHz**, was investigated. All readings are quasi-peak values with a resolution Bandwidth of 120 KHz. The initial step in collecting radiated emission data is a spectrum analyzer peak scans of the measurement range for all the test modes and then use test receiver for final measurement. Then the worst modes were reported the following data pages.

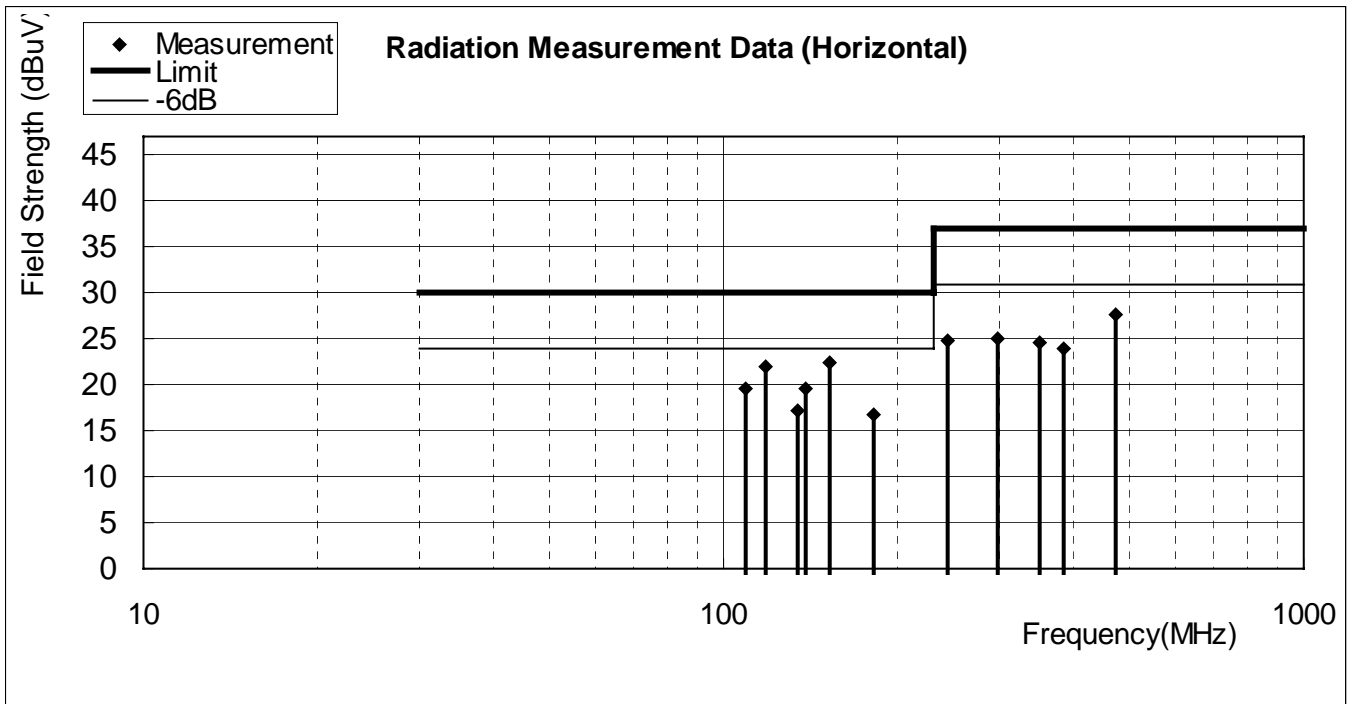
5.8 RADIATED EMISSIONS MEASUREMENT RESULTS

Date of Test	August 06, 2004	Temperature	25 deg/C
EUT	15" LCD Touch Monitor & Open Frame	Humidity	69 %RH
Working Cond.	Mode 1	Display Pattern	H Pattern
Antenna distance	10m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency [MHz]	Cable Loss [dB]	Antenna Factor [dB/m]	Reading Level [dB(uV)]	Emission Level [dB(uV/m)]	Amp. Factor [dB]	Limit [dB(uV/m)]	Margin [dB]
1	108.982	3.66	11.51	4.40	19.57	0.00	30.00	-10.43
2	117.971	3.59	12.12	6.30	22.01	0.00	30.00	-7.99
3	134.388	3.62	11.96	1.70	17.28	0.00	30.00	-12.72
4	137.997	3.66	11.86	3.96	19.48	0.00	30.00	-10.52
5	152.531	3.71	10.92	7.69	22.32	0.00	30.00	-7.68
6	181.566	3.78	9.40	3.50	16.68	0.00	30.00	-13.32
7	243.018	4.12	11.69	8.90	24.71	0.00	37.00	-12.29
8	297.022	4.56	13.12	7.30	24.98	0.00	37.00	-12.02
9	351.025	4.87	14.46	5.20	24.53	0.00	37.00	-12.47
10	386.574	5.15	15.36	3.40	23.91	0.00	37.00	-13.09
11	472.490	5.85	16.86	4.94	27.65	0.00	37.00	-9.35

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Emission Level= Reading + Antenna Factor + Cable loss (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Margin Value=Emission level-Limit value.
4. The " " means this data is worst-case emission level.

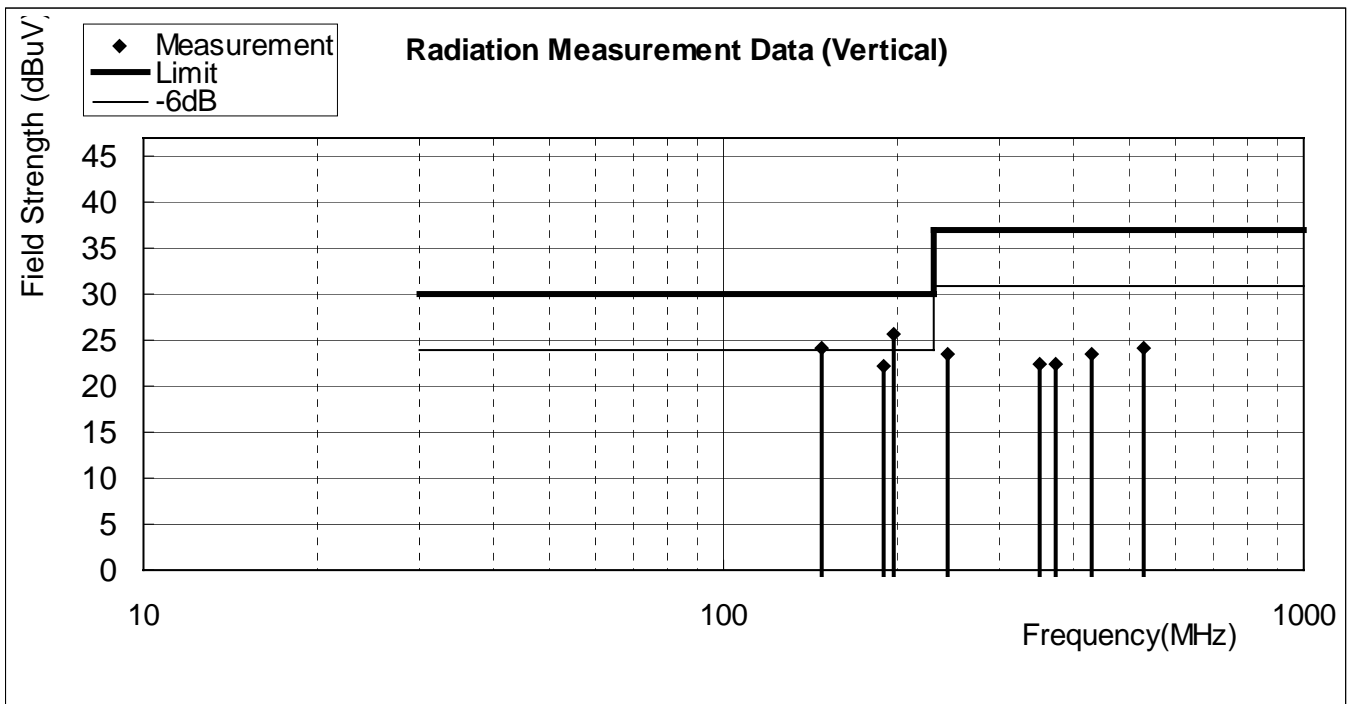


Date of Test	August 06, 2004	Temperature	25 deg/C
EUT	15" LCD Touch Monitor & Open Frame	Humidity	69 %RH
Working Cond.	Mode 1	Display Pattern	H Pattern
Antenna distance	10m at Vertical	Frequency Range	30-1000MHz

No.	Frequency [MHz]	Cable Loss [dB]	Antenna Factor [dB/m]	Reading Level [dB(uV)]	Emission Level [dB(uV/m)]	Amp. Factor [dB]	Limit [dB(uV/m)]	Margin [dB]
1	147.460	3.69	11.26	9.10	24.05	0.00	30.00	-5.95
2	189.014	3.75	9.36	9.06	22.17	0.00	30.00	-7.83
3	196.600	3.82	9.32	12.62	25.76	0.00	30.00	-4.24
4	243.018	4.12	11.69	7.63	23.44	0.00	37.00	-13.56
5	351.024	4.87	14.46	3.10	22.43	0.00	37.00	-14.57
6	372.185	5.05	14.99	2.40	22.44	0.00	37.00	-14.56
7	432.053	5.49	16.21	1.90	23.60	0.00	37.00	-13.40
8	528.063	6.22	17.71	0.17	24.10	0.00	37.00	-12.90

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Emission Level= Reading + Antenna Factor + Cable loss (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Margin Value=Emission level-Limit value.
4. The " " means this data is worst-case emission level.

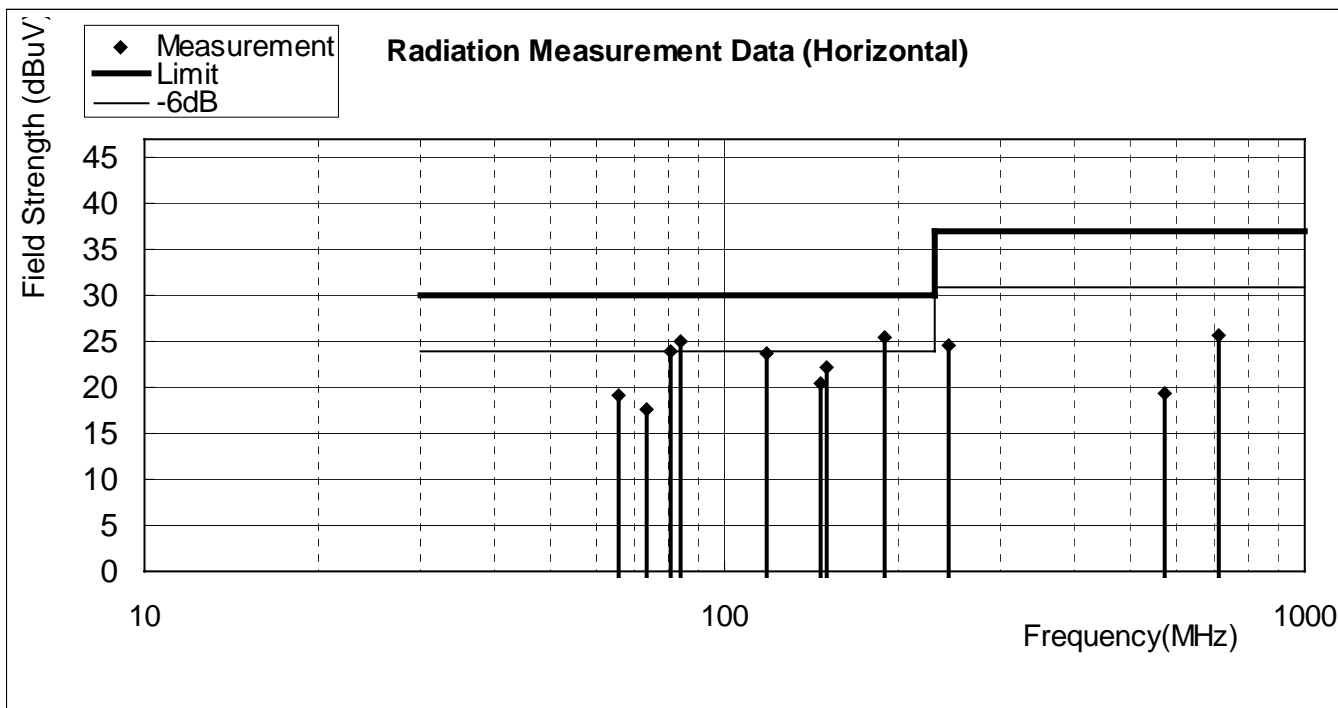


Date of Test	August 09, 2004	Temperature	25 deg/C
EUT	15" LCD Touch Monitor & Open Frame	Humidity	69 %RH
Working Cond.	Mode 2	Display Pattern	H Pattern
Antenna distance	10m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency [MHz]	Cable Loss [dB]	Antenna Factor [dB/m]	Reading Level [dB(uV)]	Emission Level [dB(uV/m)]	Amp. Factor [dB]	Limit [dB(uV/m)]	Margin [dB]
1	65.821	0.00	6.40	12.80	19.20	0.00	30.00	-10.80
2	73.140	0.00	6.63	11.00	17.63	0.00	30.00	-12.37
3	80.457	0.00	7.20	16.80	24.00	0.00	30.00	-6.00
4	84.119	0.00	7.32	17.80	25.12	0.00	30.00	-4.88
5	117.979	0.00	11.83	11.90	23.73	0.00	30.00	-6.27
6	145.866	0.00	11.32	9.20	20.52	0.00	30.00	-9.48
7	150.008	0.00	11.07	11.03	22.10	0.00	30.00	-7.90
8	189.028	0.00	9.40	16.10	25.50	0.00	30.00	-4.50
9	243.037	0.00	11.88	12.66	24.54	0.00	37.00	-12.46
10	572.749	0.00	18.19	1.22	19.41	0.00	37.00	-17.59
11	708.797	0.00	19.37	6.41	25.78	0.00	37.00	-11.22

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Emission Level= Reading + Antenna Factor + Cable loss (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Margin Value=Emission level-Limit value.
4. The " " means this data is worst-case emission level.

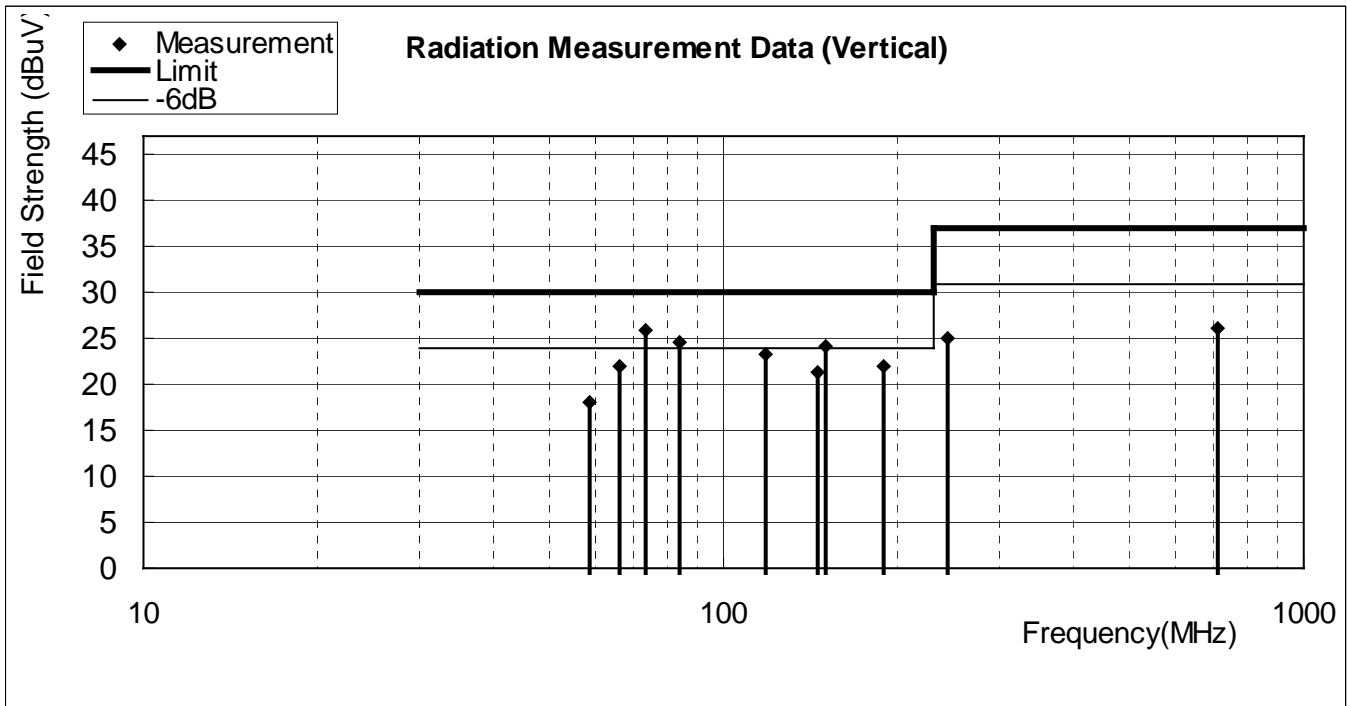


Date of Test	August 09, 2004	Temperature	25 deg/C
EUT	15" LCD Touch Monitor & Open Frame	Humidity	69 %RH
Working Cond.	Mode 2	Display Pattern	H Pattern
Antenna distance	10m at Vertical	Frequency Range	30-1000MHz

No.	Frequency [MHz]	Cable Loss [dB]	Antenna Factor [dB/m]	Reading Level [dB(uV)]	Emission Level [dB(uV/m)]	Amp. Factor [dB]	Limit [dB(uV/m)]	Margin [dB]
1	58.594	0.00	7.05	11.11	18.16	0.00	30.00	-11.84
2	65.915	0.00	6.40	15.63	22.03	0.00	30.00	-7.97
3	73.229	0.00	6.63	19.20	25.83	0.00	30.00	-4.17
4	84.224	0.00	7.32	17.21	24.53	0.00	30.00	-5.47
5	117.976	0.00	11.83	11.49	23.32	0.00	30.00	-6.68
6	145.034	0.00	11.38	10.01	21.39	0.00	30.00	-8.61
7	150.008	0.00	11.07	13.02	24.09	0.00	30.00	-5.91
8	189.029	0.00	9.40	12.67	22.07	0.00	30.00	-7.93
9	243.037	0.00	11.88	13.20	25.08	0.00	37.00	-11.92
10	708.794	0.00	19.37	6.76	26.13	0.00	37.00	-10.87

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Emission Level= Reading + Antenna Factor + Cable loss (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Margin Value=Emission level-Limit value.
4. The " " means this data is worst-case emission level.



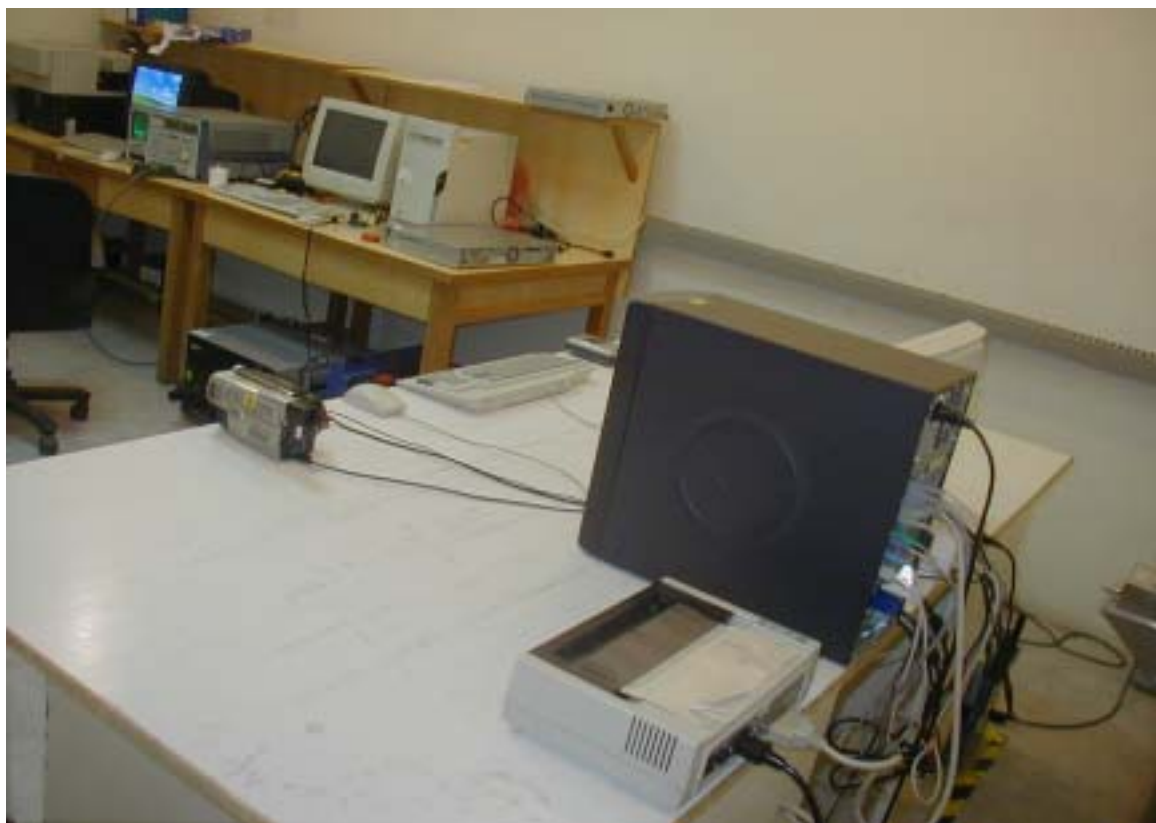
6. PHOTOGRAPHS FOR TEST

6.1 TEST PHOTOGRAPHS FOR CONDUCTION

Mode 1



Mode 2



6.2 TEST PHOTOGRAPHS FOR RADIATED

Mode 1



Mode 2



7. PHOTOGRAPHS FOR PRODUCT

1. Front View Of 15" LCD Touch Monitor & Open Frame (EUT)
2. Back View Of 15" LCD Touch Monitor & Open Frame (EUT)



8. EMI REDUCTION METHOD DURING COMPLIANCE TESTING

No modification was made during testing.

Appendix A

Circuit (Block) Diagram

(Shall be added by Applicant)

Appendix B

User Manual

(Shall be added by Applicant)