

Certificate of Test

August 2007

WinMate Communications INC.

Product Type : 10.2" Touch LCD Monitor
Model Number : W10Txxx-xxxxxx (X=a~z, A~Z, 0~9 or Blank)
Brand Name : WinMate
Test Report Number : 0706072 Rev. 1
Date of Test : June 27, 2007 – July 20, 2007

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

Standards:

FCC CFR 47, Part 15 Subpart B / CISPR 22 3rd Edition: 1997, Class B
ANSI C63.4: 2003
Canadian ICES-003

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



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Date: August 06, 2007



DECLARATION OF CONFORMITY

Per FCC Part 2 Section 2. 1077(a)



hereby declares that the product

Product Name: 10.2" Touch LCD Monitor

Model Number: W10Txxx-xxxxxx (X=a~z, A~Z, 0~9 or Blank)

Conforms to the following specifications:

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

Supplementary Information:

This device complies with part 15 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 Communications INC.

EUT: 10.2” Touch LCD Monitor

Model Number:

W10Txxx-xxxxxx (X=a~z, A~Z, 0~9, Blank)

Prepared for:

WinMate Communications INC.

9F, No. 111-6, Shing-De Rd., San-Chung City, Taipei 241, Taiwan, R.O.C.

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Test results given in this report only relate to the specimen(s) tested, calibrated or measured.
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This report must not be use to claim product endorsement by any agency of the U.S. Government.
All data in this report are traceable to national standard or international standard.

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1. CERTIFICATION

Applicant : **WinMate Communications INC.**
 EUT Description : 10.2" Touch LCD Monitor
 Model Number : W10Txxx-xxxxxx (X=a~z, A~Z, 0~9, Blank)
 Brand Name : WinMate
 Serial Number : N/A
 Tested Power Supply : 120Vac/60Hz

MEASUREMENT PROCEDURES USED:

- CFR 47, Part 15** Radio Frequency Device Subpart B Unintentional Radiators Class B
- 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:2003
- Canadian ICES-003** Implementation and Interpretation off the Interference-Causing Equipment Standard for Digital Apparatus, ICES-003

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.



Date of Test: June 27, 2007 – July 20, 2007

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

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Nico Hsu / adm. Dept. Technical Report Author

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Approved By :

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Tonny 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 (3)Canadian ICES-003. Class B	Conducted emission (Mode 1)	PASS	The worst emission frequency is <u>9.5266</u> MHz And minimum passing margin is <u>-6.04</u> dB The measurement uncertainty is <u>3.6</u> dB.
	Radiated emission (Mode 1)	PASS	The worst emission frequency is <u>225.0398</u> MHz at <u>Vertical</u> . And minimum passing margin is <u>-1.77</u> dB. Height of antenna is <u>1.0</u> M. Angle of turntable is <u>138°</u> . The measurement uncertainty is <u>5.1</u> dB.

3. GENERAL INFORMATION

3.1 PRODUCTION DESCRIPTION

Product Name : 10.2" Touch LCD Monitor
Model Number : W10Txxx-xxxxxx (X=a~z, A~Z, 0~9 or Blank)
Brand Name : WinMate
Serial Number : N/A
Applicant : WinMate Communications INC.
Address : 9F, No. 111-6, Shing-De Rd., San-Chung City, Taipei 241, Taiwan, R.O.C.
Manufacturer : WinMate Communications INC.
Address : 9F, No. 111-6, Shing-De Rd., San-Chung City, Taipei 241, Taiwan, R.O.C.
Power Supply : AC Input: 100-240V~1.6A (MAX), 50-60Hz
 DC Output: 12V, 4.16A
Power Cord : 3Pins, Non-Shielded, 1.8m, Detachable

3.2 TEST MODES & EUT COMPONENTS DESCRIPTION

EUT: 10.2" Touch LCD Monitor, M/N: W10Txxx-xxxxxx (X=a~z, A~Z, 0~9 or Blank)			
Test Mode Name	Mode 1 –D-Sub Test Mode	Mode 2 –S-Video Pre-scan Mode	Mode 3 –AV Pre-scan Mode
Resolution	800 x 480, V-Sync: 60Hz		

Note:

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

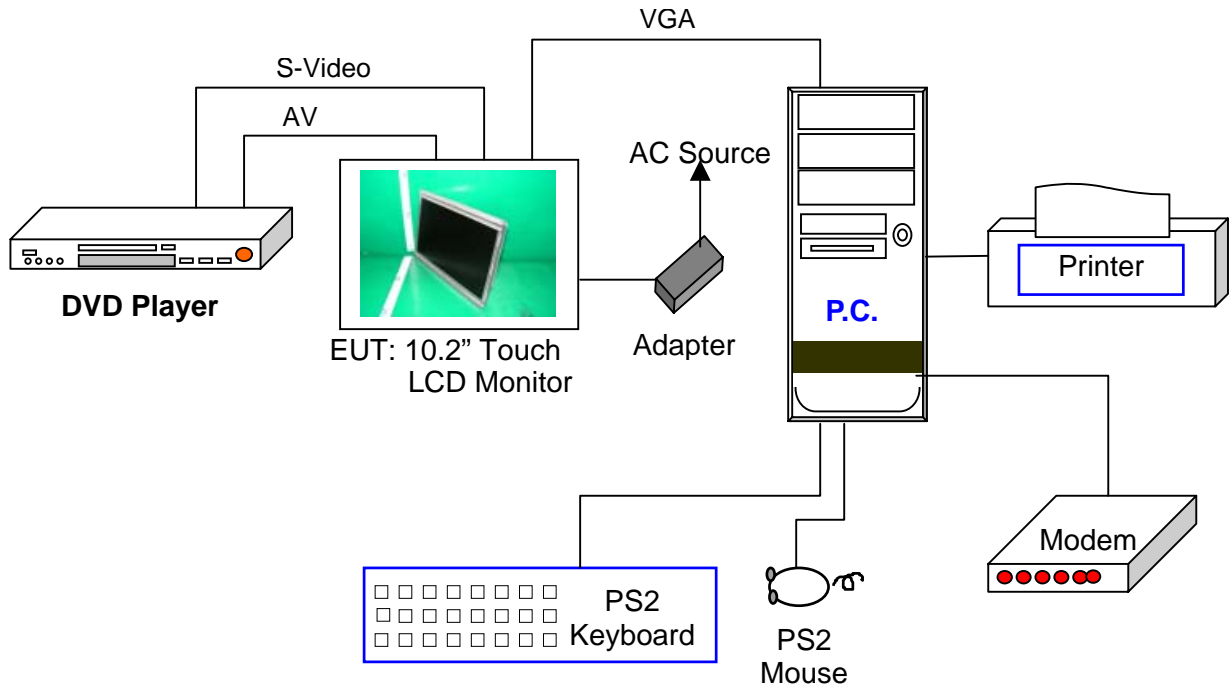
3.3 CONFIGURATION OF THE TESTED SYSTEM

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 Mouse	M02-300	Manufacturer : IBM Model Number : MU29J Serial Number : 23021308 BSMI ID : 3902A581 FCC ID : N/A Data Cable : Shielded, Undetachable, 1.5m
Printer	P01-018	Manufacturer : Hewlett Packard Model Number : 2225C Serial Number : 2548S40842 BSMI ID : 3892A957 FCC ID : BS46XU2225C Data Cable : Shielded, Detachable, 1.2m, Parallel Cable Power Cord : Non-Shielded, Detachable, 1.8m
Modem	M03-018	Manufacturer : ACEEX Model Number : 1414V Serial Number : 0046171 BSMI ID : N/A FCC ID : IFAXDM1414 Data Cable : T Type:RS232, Shielded, Detachable, 1.2m Power Cord : Non-Shielded, Detachable, 1.5m Line : Type:RJ11(4P2C), Detachable, 1.8m Phone : Type:RJ11(4P2C), Detachable, 1.8m
PS2 Keyboard	K01-099	Manufacturer : acer Model Number : T200-P BSMI ID : R41097 FCC ID : N/A Data Cable : Shielded, Undetachable, 1.8 m
DVD PLAYER	D01-009	Manufacturer : HIPLUS Model Number : DV-999 AC INPUT :100V-240V,15W,50~60Hz Power Cord : Non-Shielded, Detachable, 2Pin, 1.8m

Device	No.	Configuration
<p align="center">PC System</p>	<p align="center">HP PC09</p>	<p>Model Number : A1210TW BSMI ID : R33001 C.P.U : AMD Sempron 3200+ DDR : Samsung DDR-400 256M *1 H.D.D. : Manufacturer :Hitachi M/N:HDT722516DLA380 BSMI ID:D33373 DVD-ROM : Manufacturer :Lite-on M/N:SOHC-4836C BSMI ID:D43008 Mother Board : HP M/N:MS-7184 BSMI ID:D33088 S.P.S : HIPRP M/N:SS-330HB Input:100-127V/200-240V 47~63 Hz Output:+5V/25A,-12V/0.8A,+12V/19A,+3.3V/18A +5V_{SB}/2A BSMI ID:R32098</p>

3.4 BLOCK DIAGRAM OF CONNECTIONS BETWEEN EUT AND SIMULATORS



3.5 TEST METHODOLOGY

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4-2003.

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

(For frequencies below 1000MHz)

3.6 TEST FACILITY

Ambient conditions in the laboratory:

ITEMS	Requirement
TEMPERATURE (°C)	10-40
HUMIDITY (%RH)	10-90
BAROMETRIC PRESSURE (mbar)	860-1060
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 States Department of commerce National Institute of Standards and Technology National Voluntary Laboratory Accreditation Program Accreditation on NVLAP effective through Sep. 30,2007 For CISPR 22, FCC Method and AS/NZS CISPR 22 Measurement.
Taiwan Accreditation Foundation (TAF)	Recognized by the Council of Taiwan Accreditation Foundation and confirmed to meet the requirements of ISO/IEC 17025. Registration No.: 1082 Registration on TAF effective through Sep. 19,2009

4. CONDUCTED EMISSION MEASUREMENT

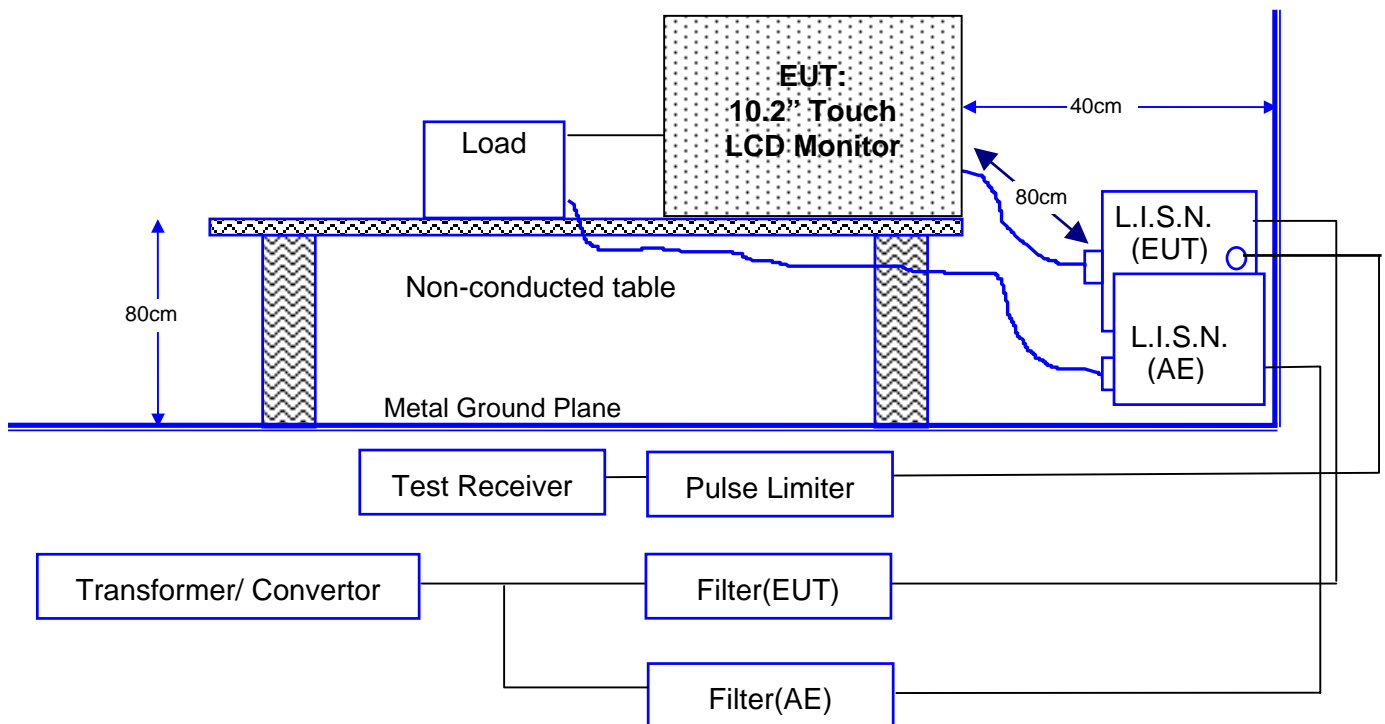
4.1 TEST EQUIPMENTS

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

Item	Instrument	Manufacturer	Model	Serial No.	Last Cal. Date
1	Test Receiver	R & S	ESHS30	828109/010	04/27/07
2	LISN.(EUT)	ROLF HEINE	NNB-2/16Z	99042	12/22/06
3	L.I.S.N.(AE)	KYORITSU	KNW-407	8-1345-10	10/17/06
4	Pulse Limiter	R & S	ESH3-Z2	357.8810.52	08/03/06
5	RF CABLE	GTK	N/A	GTK-E-A154-01	11/28/06
6	50 Ohm Terminator	GTK	N/A	GTK-E-A130-01	N/A
7	Shielded Room	GTK	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



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

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

4.3 CONDUCTED EMISSION LIMIT

FCC Limit

Frequency	Maximum RF Line Voltage			
	Class A		Class B	
MHz	μV	$\text{dB}\mu\text{V}$	μV	$\text{dB}\mu\text{V}$
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 ($\text{dB}\mu\text{V}$) = $20 \log$ RF Line Voltage (μV).
2. In the Above Table, the tighter limit applies at the band edges.

CISPR Limit

Frequency	Maximum RF Line Voltage $\text{dB}(\mu\text{V})$			
	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 were 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, active all devices.
4. Adjust to appropriate video resolution.
5. Active other internal devices such as network function.
6. Run "Win RFI" test program under Windows XP.
7. P.C. sent "H" pattern to monitor, make the "H" pattern full in the screen.
8. P.C. sent "H" pattern to parallel and serial port.
9. Repeat above steps.

4.7 CONDUCTED EMISSION MEASUREMENT RESULTS

Date of Test	July 20, 2007	Temperature	26
EUT	10.2" Touch LCD Monitor	Humidity	60 %
Test Mode	Mode 1	Display Pattern	H Pattern
Test Power Supply	AC 120V/60Hz		

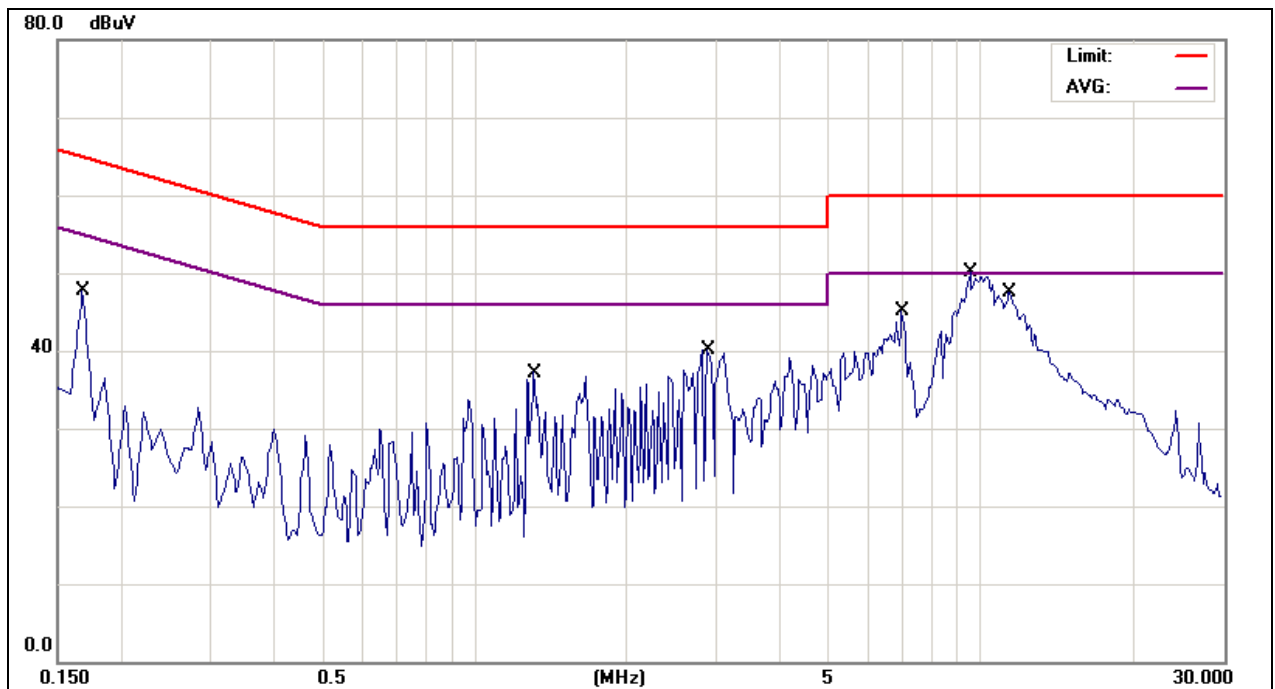
Line

No.	Frequency MHz	Reading Level dB μ V	Factor dB	Measurement dB μ V	Limit dB μ V	Over Limit dB	Detector
1	0.1677	34.89	10.16	45.05	65.07	-20.02	QP
2	0.1677	23.43	10.16	33.59	55.07	-21.48	AVG
3	1.3108	25.29	10.13	35.42	56.00	-20.58	QP
4	1.3108	19.65	10.13	29.78	46.00	-16.22	AVG
5	2.8907	29.58	10.20	39.78	56.00	-16.22	QP
6	2.8907	27.76	10.20	37.96	46.00	-8.04	AVG
7	7.0498	32.04	10.35	42.39	60.00	-17.61	QP
8	7.0498	28.45	10.35	38.80	50.00	-11.20	AVG
9	9.5323	36.85	10.42	47.27	60.00	-12.73	QP
10	9.5323	33.12	10.42	43.54	50.00	-6.46	AVG
11	11.5564	34.34	10.48	44.82	60.00	-15.18	QP
12	11.5564	30.07	10.48	40.55	50.00	-9.45	AVG

Remarks :

1. All readings are Quasi-peak and Average values.
2. Measurement = Reading + Factor (Could have ± 0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. Factor = L.I.S.N. insertion loss + cable loss
5. " " means that this data is the worse case measurement level.
6. The measurement uncertainty is 3.6 dB.

Line



Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak ; "AVG" refers to the limit of Average.

Date of Test	July 20, 2007	Temperature	26
EUT	10.2" Touch LCD Monitor	Humidity	60 %
Test Mode	Mode 1	Display Pattern	H Pattern
Test Power Supply	AC 120V/60Hz		

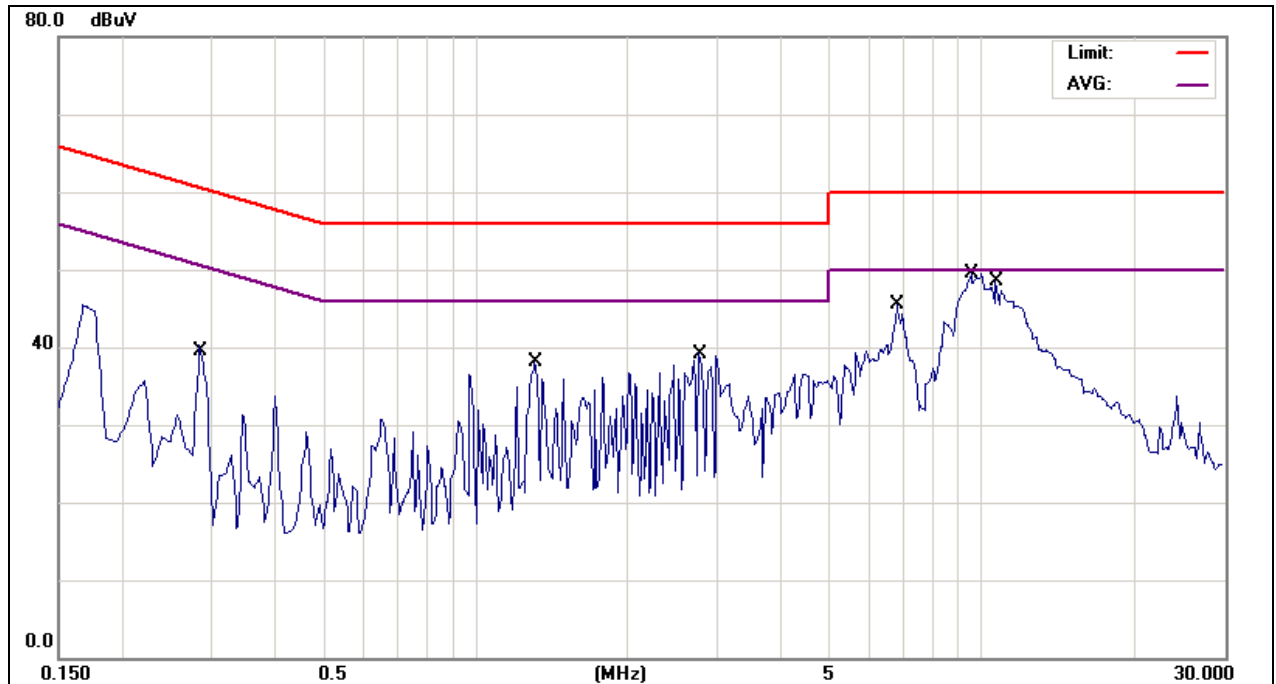
Neutral

No.	Frequency MHz	Reading Level dBμV	Factor dB	Measurement dBμV	Limit dBμV	Over Limit dB	Detector
1	0.2884	31.37	10.20	41.57	60.57	-19.00	QP
2	0.2884	22.60	10.20	32.80	50.57	-17.77	AVG
3	1.3101	25.73	10.16	35.89	56.00	-20.11	QP
4	1.3101	20.31	10.16	30.47	46.00	-15.53	AVG
5	2.7728	28.26	10.26	38.52	56.00	-17.48	QP
6	2.7728	26.77	10.26	37.03	46.00	-8.97	AVG
7	6.8712	32.40	10.39	42.79	60.00	-17.21	QP
8	6.8712	27.47	10.39	37.86	50.00	-12.14	AVG
9	9.5266	37.03	10.52	47.55	60.00	-12.45	QP
10	9.5266	33.44	10.52	43.96	50.00	-6.04	AVG
11	10.6785	33.59	10.57	44.16	60.00	-15.84	QP
12	10.6785	28.32	10.57	38.89	50.00	-11.11	AVG

Remarks :

1. All readings are Quasi-peak and Average values.
2. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. Factor = L.I.S.N. insertion loss + cable loss
5. " " means that this data is the worse case measurement level.
6. The measurement uncertainty is 3.6 dB.

Neutral



Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak ; "AVG" refers to the limit of Average.

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

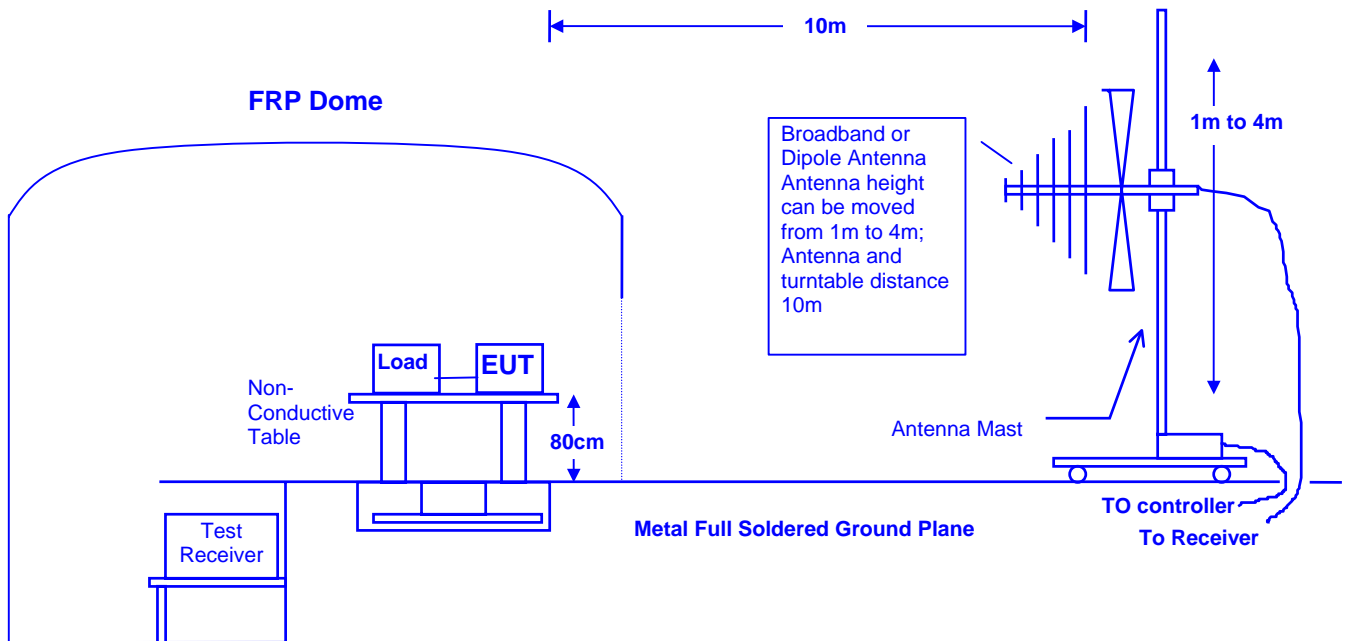
Item	Instrument	Manufacturer	Model	Serial No.	Last Cal. Date
1	TEST RECEIVER	R & S	ESVS10	8421122/001	04/17/07
2	SPECTRUM	ADVANTEST	U3751	161000225	01/02/07
3	PRE-AMPLIFIER	HP	8447D	2944A08610	09/11/06
4	BILOG Antenna	SCHAFFNER	CBL6112B	2833	11/24/06
5	RF Cable	GTK	N/A	GTK-E-A150-01	12/15/06
6	Open Site	GTK	N/A	A2	07/05/07

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

5.2 OPEN TEST SITE SETUP DIAGRAM

Note: This is a reprehensive 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 RADIATED EMISSION LIMIT

FCC Class A Limit at 10m

Frequency	Distance	Field Strength	
		$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
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
		$\text{dB}(\mu\text{V/m})$
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.

5.4 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, 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.

5.5 OPERATING CONDITION OF EUT

Same as section 4.6.

5.6 RADIATED EMISSION DATA

The measurement range of radiated emission, which is from **30 MHz to 1 GHz**, 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.

5.7 RADIATED EMISSIONS MEASUREMENT RESULTS

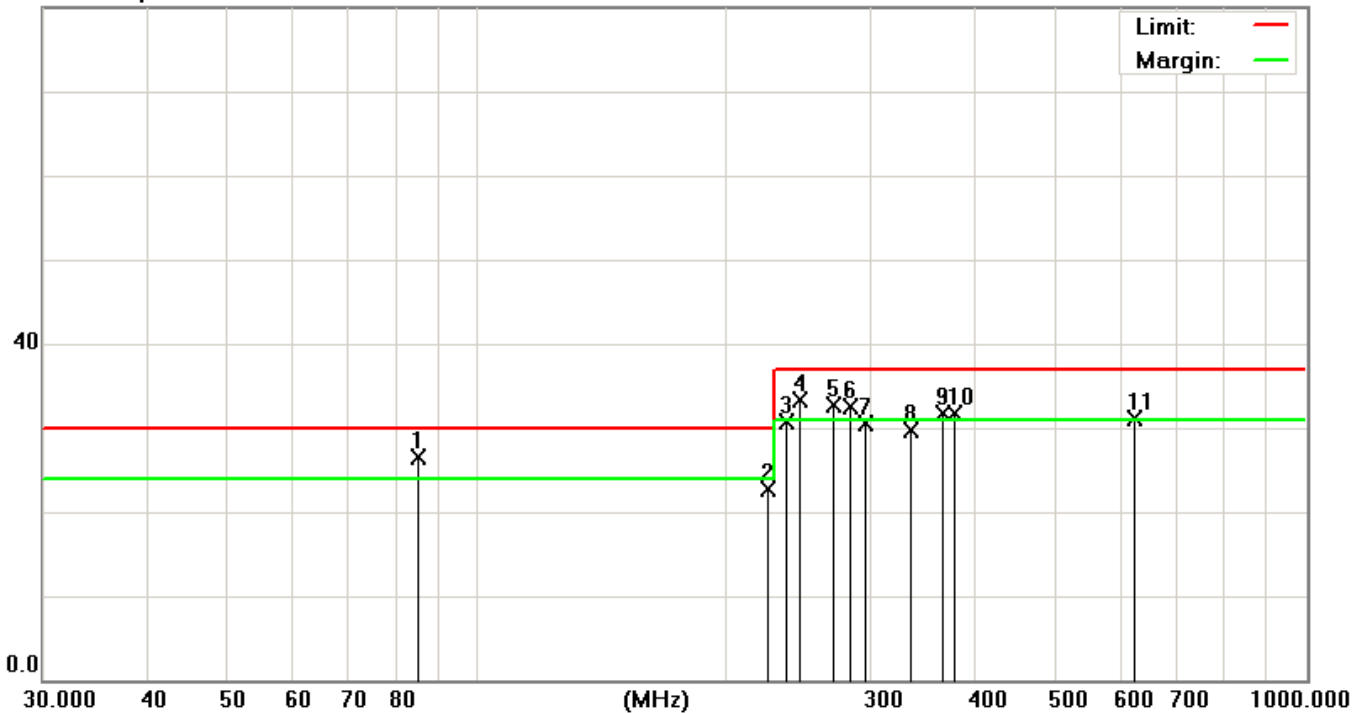
Date of Test	June 26, 2007	Temperature	26.5 deg/C
EUT	10.2" Touch LCD Monitor	Humidity	58 %RH
Working Cond.	Mode 1	Display Pattern	H Pattern
Antenna distance	10m at Horizontal	Frequency Range	30-1000MHz
Test Power Supply	AC 120V/60Hz		

No.	Frequency MHz	Reading Level dBμV	Factor dB	Measurement dBμV/m	Limit dBμV/m	Over Limit dB	Detector
1	85.0475	43.50	-17.03	26.47	30.00	-3.53	QP
2	224.7635	33.80	-11.06	22.74	30.00	-7.26	QP
3	236.9040	40.98	-10.22	30.76	37.00	-6.24	QP
4	246.0300	42.95	-9.58	33.37	37.00	-3.63	QP
5	270.3000	41.28	-8.54	32.74	37.00	-4.26	QP
6	282.4600	40.65	-8.08	32.57	37.00	-4.43	QP
7	294.6140	38.17	-7.62	30.55	37.00	-6.45	QP
8	336.0265	36.27	-6.65	29.62	37.00	-7.38	QP
9	366.0265	37.81	-6.01	31.80	37.00	-5.20	QP
10	378.0065	37.45	-5.76	31.69	37.00	-5.31	QP
11	625.0165	32.94	-1.87	31.07	37.00	-5.93	QP

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement = Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. Factor = antenna factor + cable loss – amplifier gain.
5. " " means that this data is the worse case measurement level.
6. The measurement uncertainty is 5.1 dB.

80.0 dBuV/m



Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak ; "AVG" refers to the limit of Average.

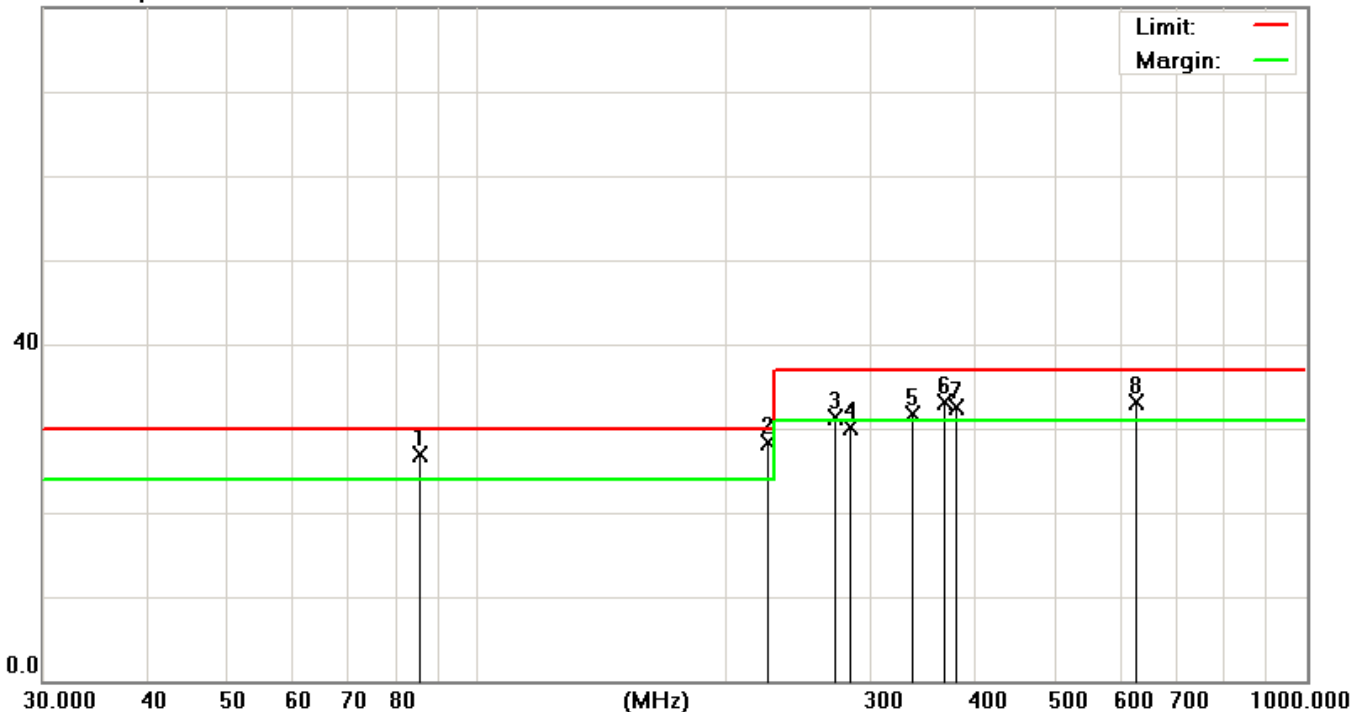
Date of Test	June 26, 2007	Temperature	26.5 deg/C
EUT	10.2" Touch LCD Monitor	Humidity	58 %RH
Working Cond.	Mode 1	Display Pattern	H Pattern
Antenna distance	10m at Vertical	Frequency Range	30-1000MHz
Test Power Supply	AC 120V/60Hz		

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	85.3215	43.98	-17.00	26.98	30.00	-3.02	QP
2	225.0398	39.27	-11.04	28.23	30.00	-1.77	QP
3	270.9575	39.89	-8.52	31.37	37.00	-5.63	QP
4	282.0166	38.17	-8.10	30.07	37.00	-6.93	QP
5	336.9571	38.28	-6.63	31.65	37.00	-5.35	QP
6	366.9547	39.12	-6.00	33.12	37.00	-3.88	QP
7	378.9212	38.19	-5.74	32.45	37.00	-4.55	QP
8	625.9755	34.91	-1.86	33.05	37.00	-3.95	QP

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Measurement = Reading + Factor (Could have ± 0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. Factor = antenna factor + cable loss – amplifier gain.
5. " " means that this data is the worse case measurement level.
6. The measurement uncertainty is 5.1 dB.

80.0 dBuV/m

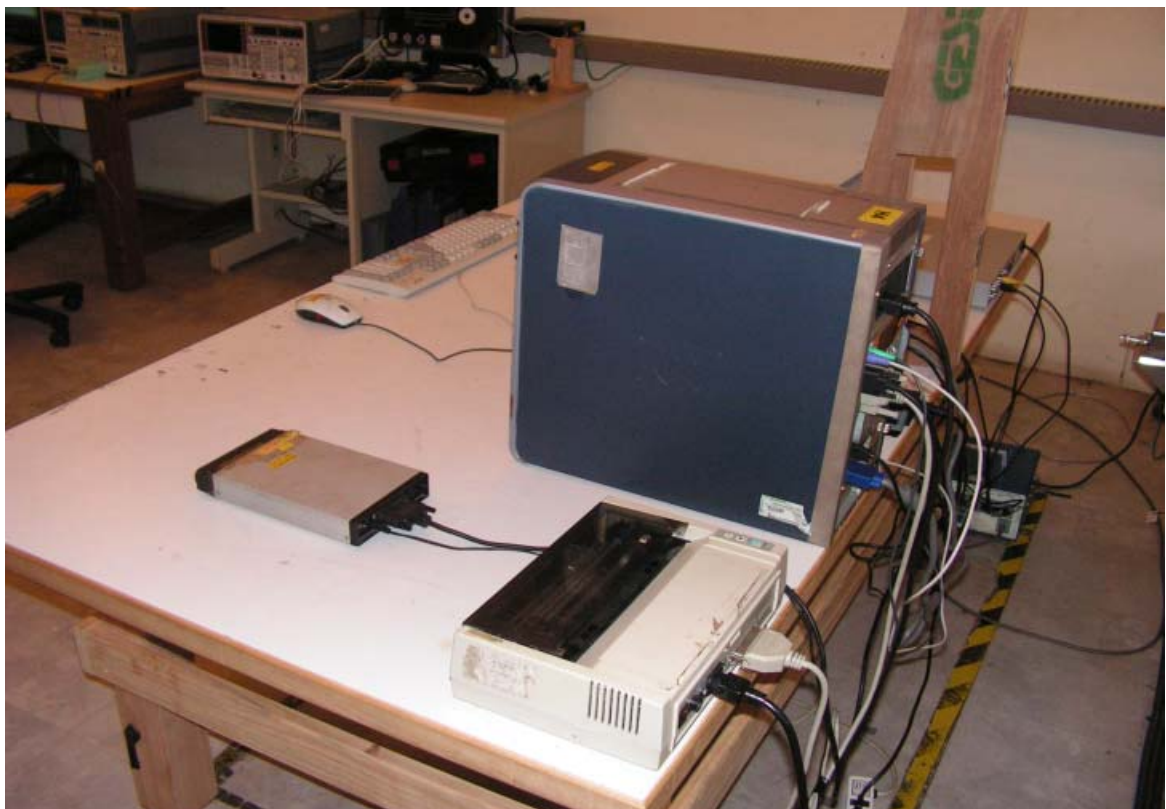


Remark: 1. The "Limit" in right-up corner in above diagram refers to Quasi-peak ; "AVG" refers to the limit of Average.

6. PHOTOGRAPHS FOR TEST

6.1 TEST PHOTOGRAPHS FOR CONDUCTION

Mode 1



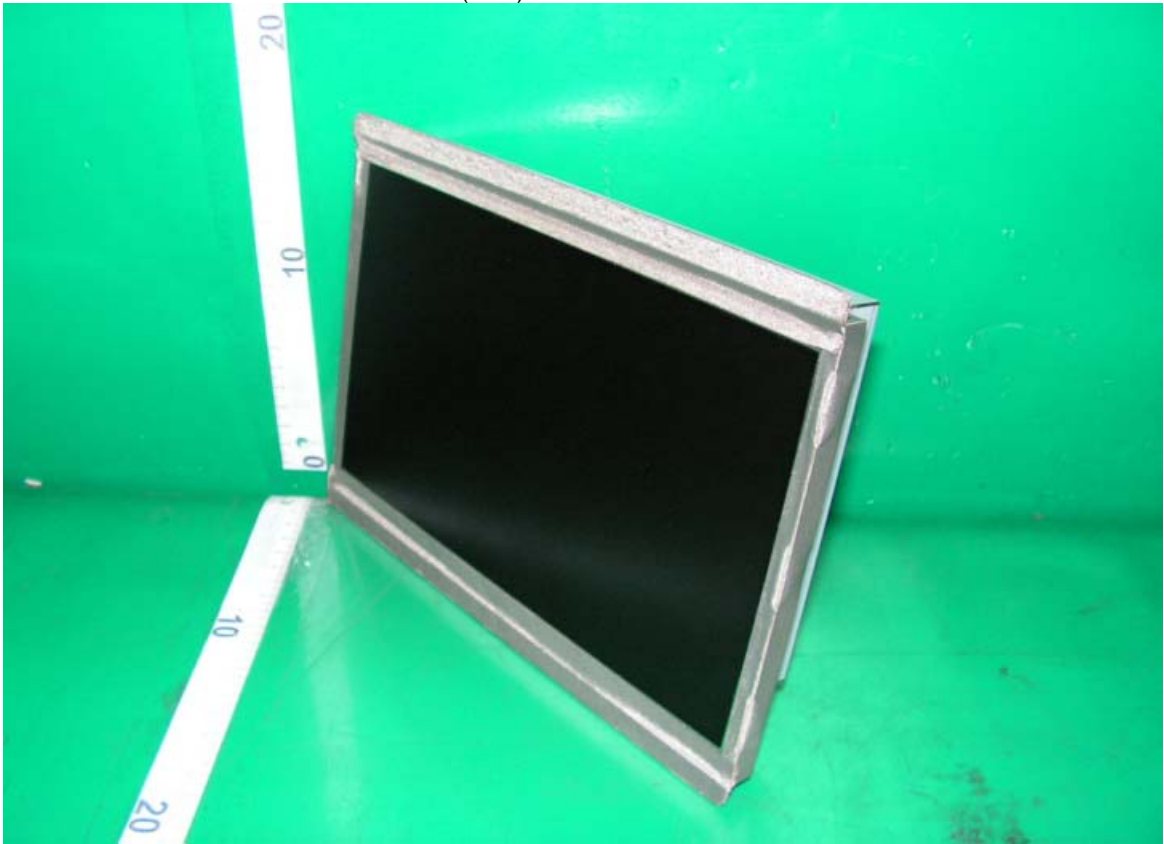
6.2 TEST PHOTOGRAPHS FOR RADIATED

Mode 1



7. PHOTOGRAPHS FOR PRODUCT

1. Front View Of 10.2" Touch LCD Monitor (EUT)
2. Back View Of 10.2" Touch LCD Monitor (EUT)



3. Port



- 4. Front View Of Adapter
- 5. Back View Of Adapter



8. EMI/EMS 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)