

APPLICATION FOR CERTIFICATION

On Behalf of
Source Technology Inc.
LCD Monitor
Model : VW9901

FCC ID : OMVW9901

Prepared for : Source Technology Inc.
14F, No. 96, Sec. 1, Hsin-Tai 5th Rd.,
Hsi-Chih, Taipei County, Taiwan, R.O.C.

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Date of Test : Jun. 19 ~ 23, 1999
Date of Report : Jul. 15, 1999

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Tok99-F012

TEST REPORT CERTIFICATION

Applicant : Source Technology Inc.
Manufacturer : Source Technology Inc.
FCC ID : OMVW9901
EUT Description : LCD Monitor
(A) MODEL NO. : VW9901
(B) SERIAL NO. : N/A
(C) POWER SUPPLY : AC 120V/60Hz (Via Power Adapter)

Measurement Procedure Used :

FCC RULES AND CISPR 22 (DOCKET NO. 92-152, SEP. 1993) AND
FCC / ANSI C63.4-1992

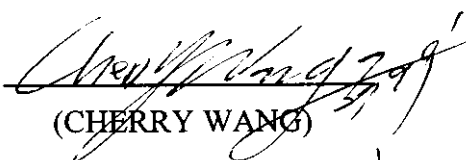
The device described above was tested by TAIWAN TOKIN EMC ENG. CORP. to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the CISPR 22 Class B limits both radiated and conducted emissions.

The measurement results are contained in this test report and TAIWAN TOKIN EMC ENG. CORP. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

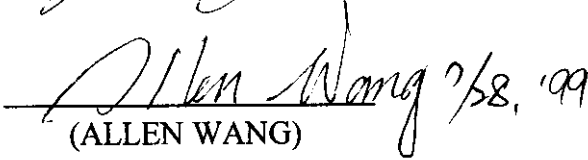
This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Taiwan Tokin EMC Eng. corp.

Date of Test : Jun. 19 ~ 23, 1999

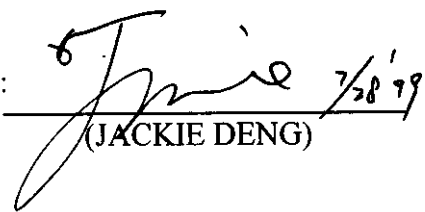
Prepared by :


(CHERRY WANG)

Test Engineer :

 7/28, '99
(ALLEN WANG)

Approve & Authorized Signer :

 7/28 '99
(JACKIE DENG)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	LCD Monitor
Model Number	:	VW9901
FCC ID.	:	OMVW9901
Applicant	:	Source Technology Inc. 14F, No. 96, Sec. 1, Hsin-Tai 5th Rd., Hsi-Chih, Taipei County, Taiwan, R.O.C.
Manufacturer	:	Source Technology Inc. 14F, No. 96, Sec. 1, Hsin-Tai 5th Rd., Hsi-Chih, Taipei County, Taiwan, R.O.C.
LCD Panel (15.1" TFT)	:	LG, M/N LM151X2 S/N 15191P2561539
Data Cable (D-Sub, 15-Pin)	:	Shielded, Detachable, 1.5m Bonded a ferrite core
Power Adapter	:	M/N F1650 (K) Input: 100-240V ~ 1.0A Max, 50-60Hz Output: 12Vdc, 3.5A Power Cable: Non-Shielded, Undetachable, 1.2m, Bonded a ferrite core
Power Cord	:	Non-Shielded, Detachable, 1.8m
Data of Receipt of Sample	:	Apr. 27, 1999
Date of Test	:	Jun. 19 ~ 23, 1999

1.2. Tested Supporting System Details

1.2.1. PERSONAL COMPUTER

Mother Board	:	ASUS, M/N P5A FCC ID. By DoC
CPU	:	AMD K6-2 266MHz
Case	:	Enlight, M/N EN7105C
S.P.S.	:	SPI, M/N FSP250-61GT S/N W13562615
Floppy Driver 3.5"	:	Mitsumi, M/N D353M3
Hard Disk Driver	:	Seagate, M/N ST34321A S/N VTH20835
VGA Card	:	Dataexpert, M/N CP765V2 FCC ID LUT-CP765
Power Cord	:	Non-Shielded, Detachable, 1.8m
USB Cable	:	Shielded, Detachable, 1.8m

(Link to EUT, from PC to EUT)

1.2.2. PS2 KEYBOARD

Model Number	:	5121
Serial Number	:	J83300817
FCC ID	:	E5XKBM104M10UC
Manufacturer	:	Behavior Tech Computer Corp.
Data Cable	:	Shielded, Undetachable, 1.0m

1.2.3. USB KEYBOARD #1 (Link to EUT)

Model Number	:	KU-8933
Serial Number	:	8H17800109
FCC ID	:	By DoC
Manufacturer	:	Chicony Electronics Co., Ltd.
Data Cable	:	Shielded, Undetachable, 1.8m

1.2.4. USB KEYBOARD #2

Model Number	:	KU-8933
Serial Number	:	8H17800111
FCC ID	:	By DoC
Manufacturer	:	Chicony Electronics Co., Ltd.
Data Cable	:	Shielded, Undetachable, 1.8m

1.2.5. PRINTER

Model Number	:	2225C+
Serial Number	:	3121S96627
FCC ID	:	DSI6XU2225
Manufacturer	:	Hewlett Packard
Power Adapter	:	Hewlett Packard, M/N 82241A Non-Shielded, Undetachable, 2.0m
Data Cable	:	Shielded, Detachable, 1.2m

1.2.6. MODEM #1

Model Number	:	DM-1414
Serial Number	:	980034400
FCC ID	:	IFAXDM1414
Manufacturer	:	Aceex
Data Cable	:	Shielded, Detachable, 1.2m
Power Adapter	:	Amigo, Model AM-91000A
		Non-Shielded, Undetachable, 1.8m

1.2.7. MODEM #2

Model Number	:	DM-1414
Serial Number	:	980034399
FCC ID	:	IFAXDM1414
Manufacturer	:	Aceex
Data Cable	:	Shielded, Detachable, 1.2m
Power Adapter	:	Amigo, Model AM-91000A
		Non-Shielded, Undetachable, 1.8m

1.2.8. PS2 MOUSE

Model Number	:	M-S35
Serial Number	:	LZA82103128
FCC ID	:	DZL211029
Manufacturer	:	Logitech
Data Cable	:	Non-Shielded, Undetachable, 1.8m

1.2.9. USB MOUSE #1 (Link to EUT)

Model Number	:	M-UB48
Serial Number	:	LZB81900212
FCC ID	:	DZL211137
Manufacturer	:	Logitech
Data Cable	:	Shielded, Undetachable, 1.8m

1.2.10. USB MOUSE #2 (Link to EUT)

Model Number	:	M-UB48
Serial Number	:	LZB81900216
FCC ID	:	DZL211137
Manufacturer	:	Logitech
Data Cable	:	Shielded, Undetachable, 1.8m

1.2.11. USB MOUSE #3 (Link to EUT)

Model Number	:	M-UB48
Serial Number	:	LZB81900209
FCC ID	:	DZL211137
Manufacturer	:	Logitech
Data Cable	:	Shielded, Undetachable, 1.8m

1.3. Description of Test Facility

Site Description (No. 1 Open Site)	:	Oct. 21, 1996 File on Federal Communication Commission FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046, U.S.A.
Site Description (Anechoic Chamber)	:	Aug. 22, 1997 Re-file on Federal Communication Commission FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046, U.S.A.
Name of Firm	:	Taiwan Tokin EMC Eng. Corp.
Site Location	:	No. 53-11, Tin-Fu Tsun, Lin-Kou, Taipei Hsien, Taiwan, R.O.C.
NVLAP lab. Code	:	200077-0

2. POWERLINE CONDUCTED TEST

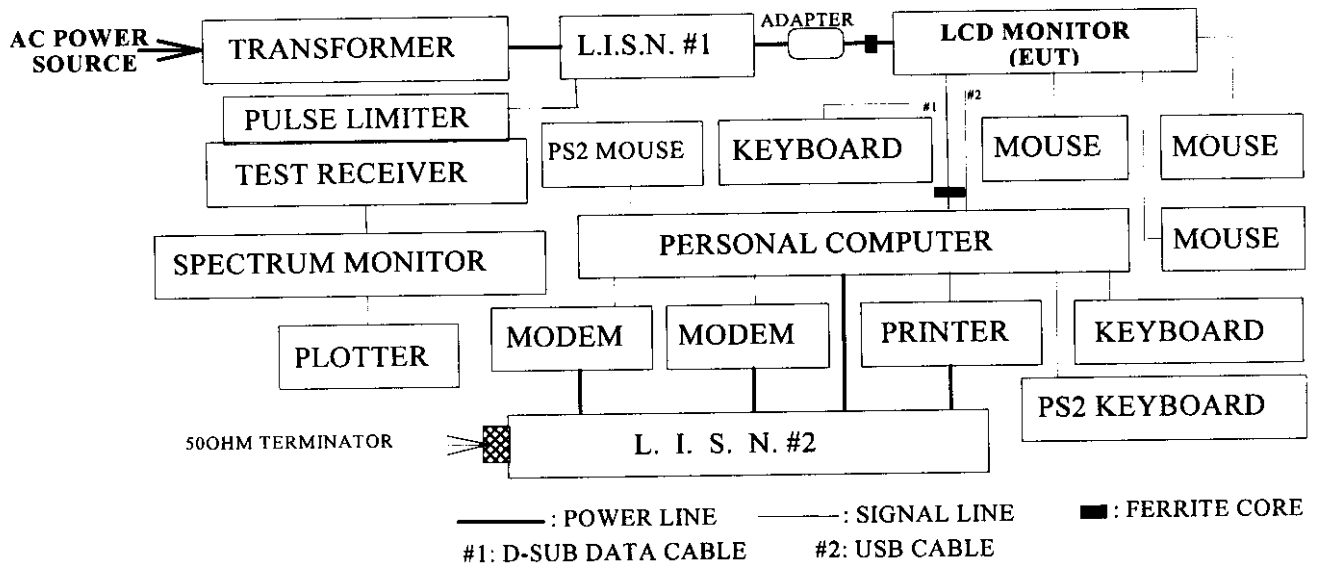
2.1. Test Equipment

The following test equipments were used during the power line conducted tests :

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESH3	880647/035	Jun. 19, 99'	1 Year
2.	L.I.S.N. # 1	Kyoritsu	KNW-407	8-881-13	Apr. 21, 99'	1 Year
3.	L.I.S.N. # 2	Kyoritsu	KNW-407	8-855-9	Apr. 21, 99'	1 Year

2.2. Block Diagram of Test Setup

**** EUT's Power Connected to L.I.S.N. Directly ****



2.3. Powerline Conduction Emission Limit (CISPR 22, Class B)

FREQUENCY	MAXIMUM RF LINE VOLTAGE	
	QUASI-PEAK LEVEL	AVERAGE LEVEL
150KHz ~ 500KHz	66 ~ 56 dB	56 ~ 46 dB
500KHz ~ 5MHz	56 dB	46 dB
5MHz ~ 30MHz	60 dB	50dB

2.4. EUT's Configuration during Compliance Measurement

The following equipments were installed on RF LINE VOLTAGE measurement to meet the Commission requirement and operating in a manner which tend to maximize its emission characteristics in a normal application.

2.4.1. LCD Monitor (EUT)

Model Number	:	VW9901
Serial Number	:	N/A
FCC ID.	:	OMVW9901
Manufacturer	:	Source Technology Inc.
LCD Panel	:	LG, M/N LM151X2, S/N 15191P2561539
Data Cable	:	Shielded, Detachable, 1.5m
(D-Sub, 15-Pin)	:	Bonded a ferrite core
Power Adapter	:	M/N F1650 (K)
		Input: 100-240V ~ 1.0A Max, 50-60Hz
		Output: 12Vdc, 3.5A
		Power Cable: Non-Shielded, Undetachable, 1.2m
		Bonded a ferrite core
Power Cord	:	Non-Shielded, Detachable, 1.8m

2.4.2. Supporting System : As in Section 1.2

2.5. Operating Condition of EUT

- 2.5.1. Setup the EUT and simulator as shown on 3.1.
- 2.5.2. Turned on the power of all equipments.
- 2.5.3. Personal Computer read data from disk.
- 2.5.4. Personal Computer running the self-test program "Hwin" by windows and sent "H" character to LCD Monitor (EUT) through VGA card, the screen displayed and filled with "H" pattern by EUT's resolution.
- 2.5.5. Personal Computer read data from floppy disk 、 Modem and then wrote the data into floppy disk 、 Modem.
- 2.5.6. Personal computer sent "H" character to printer, the printer printed "H" pattern.
- 2.5.7. The EUT's USB mouse was in stand by mode.
- 2.5.8. The other peripheral devices were driven and operated in turn during all testing.

2.6. Test Procedure

The EUT's power adapter was connected to the power mains through a line impedance stabilization network (L.I.S.N.# 1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.# 2). This provided a 50 ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.) Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to FCC ANSI C63.4-1992 on conducted measurement.

The bandwidth of the R&S Test Receiver ESH3 was set at 10KHz.

The frequency range from 150KHz to 30MHz was checked.

Three kinds of horizontal working frequency and display pattern were investigated during pre-scanning and report the worst mode (60KHz/1024*768, EUT power to L.I.S.N.) in the section 2.8., the others test data are attached within Appendix I.

The detail of test modes are as follows :

- (1) 38KHz (640*480, 72Hz)
- (2) 48KHz (800*600, 75Hz)
- (3) 60KHz (1024*768, 75Hz)

2.7. Test Results

PASSED. Please refer to the following pages.

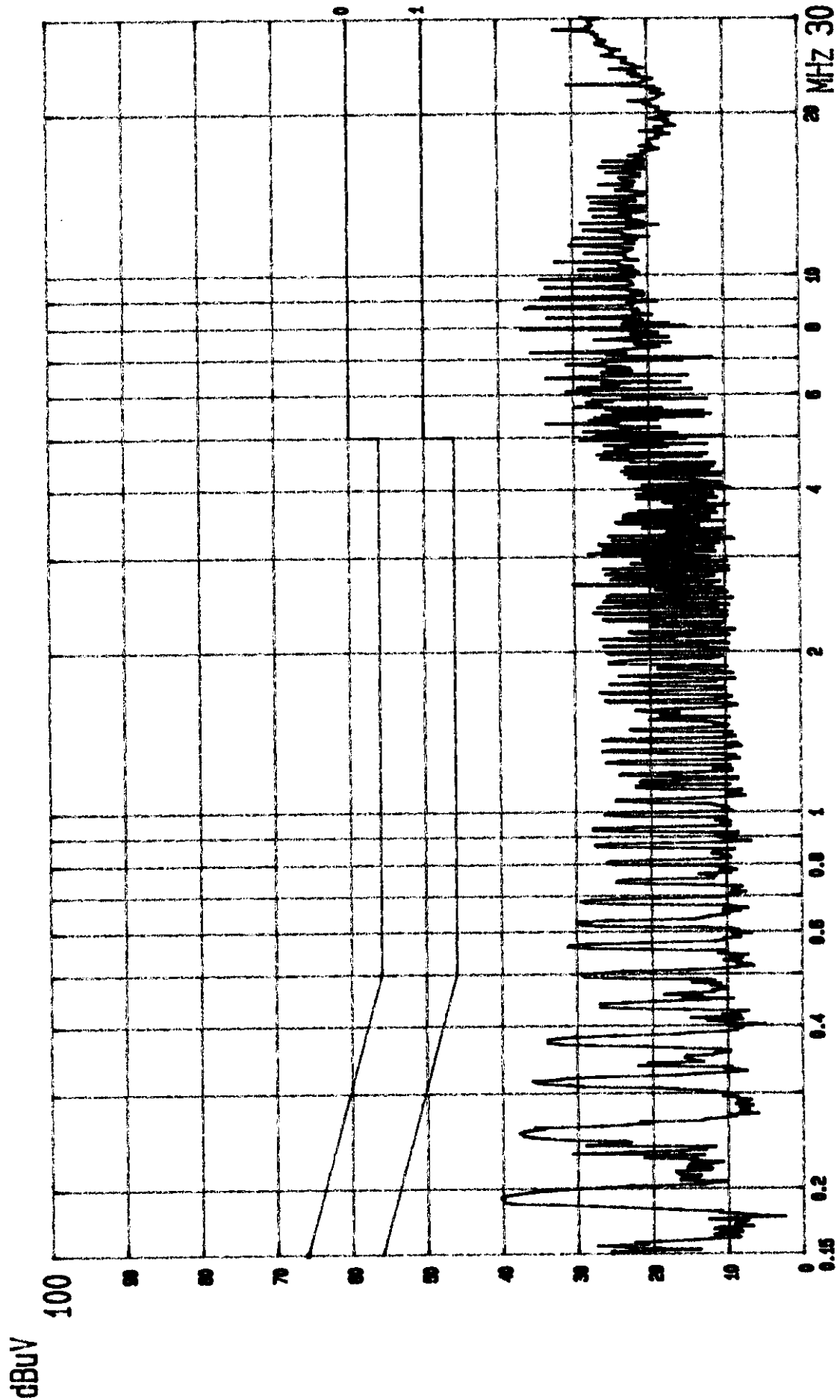
2.8. Line Conducted RF Voltage Measurement Results

The frequency range from 150KHz to 30 MHz was investigated.
All emissions not reported below are too low against the prescribed limits.

Date of Test : Jul. 11, 1999 Temperature : 27 °C
EUT : LCD Monitor, M/N VW9901 Humidity : 46 %
Test Mode : 60KHz, 1024*768/75Hz

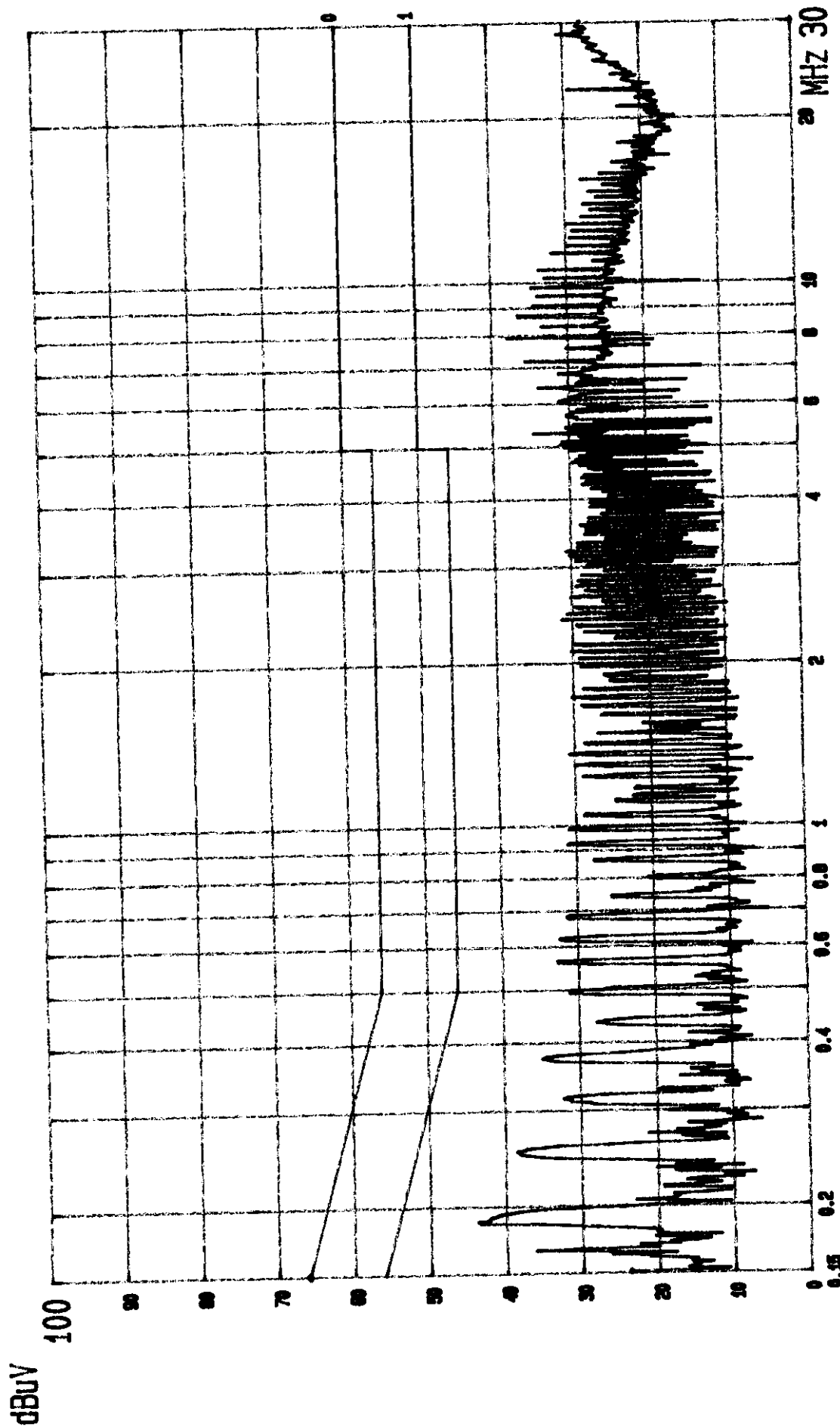
Frequency MHz	Factor dB	Reading (dBμV)				Measurement (dBμV)				Limits (dBμV)	
		Phase A Neutral		Phase B Line		Phase A Neutral		Phase B Line			
		Q.P.	Average	Q.P.	Average	Q.P.	Average	Q.P.	Average	Q.P.	Average
0.1860	0.4	44.8	40.7	42.1	40.1	45.2	41.1	42.5	40.5	64.1	54.1
0.2472	0.4	39.6	37.6	37.7	36.6	40	38	38.1	37	61.8	51.8
0.5515	0.5	31.3	31.5	32.7	32.3	31.8	32	33.2	32.8	56.0	46.0
2.3921	0.5	*	*	29.7	28.9	*	*	30.2	29.4	56.0	46.0
2.3928	0.5	26.5	26.6	*	*	27	27.1	*	*	56.0	46.0
5.2706	0.8	33.1	21.9	*	*	33.9	22.7	*	*	60.0	50.0
5.2727	0.8	*	*	34.2	30.7	*	*	35	31.5	60.0	50.0
7.9079	0.8	36.5	35.6	37.4	35.8	37.3	36.4	38.2	36.6	60.0	50.0

Remark : 1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss
3. "*" means the emission level undetectable.



120V/60Hz PAGE: 02.
(PEAK VALUE) TTEMC.

--- Date 23 JUN '99 Time 11:11:03
SOURCE EUT: LCD MONITOR M/N: VW 9901
LINE: VA. MEMO: 60KHz (1024X768; 75Hz)



Date 23.JUN.'99 Time 11:05:29
 SOURCE EUT: LCD MONITOR M/N: VM 9901
 LINE: VB. MEMO: 60KHz (1024X768; 75Hz)

120V/60Hz PAGE: 01.
 (PEAK VALUE) TTEMC.

3. RADIATED EMISSION TEST

3.1. Test Equipment

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

3.1.1. For Anechoic Chamber

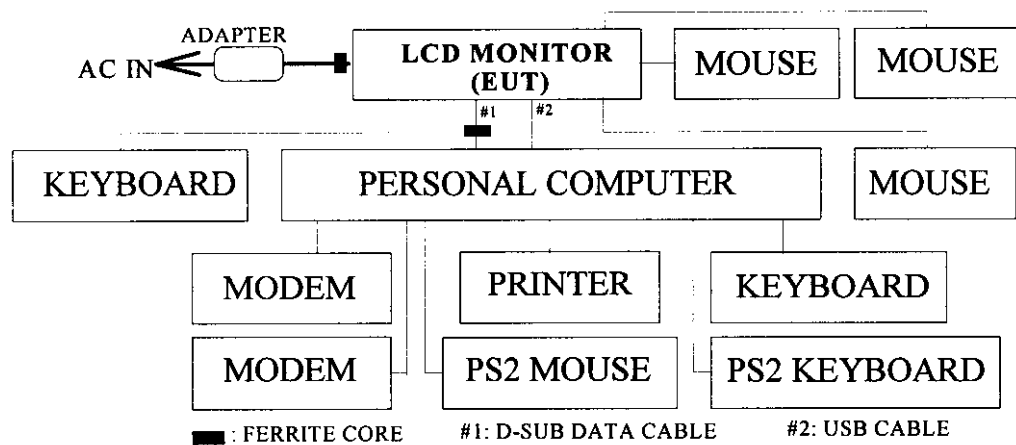
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	HP	8593A	3212A01727	Jul. 25, 98'	1 Year
2.	Pre-Amplifier	HP	8447D	2944A06305	Dec.09, 98'	1 Year
3.	Broadband Antenna	Schwarzbeck	BBA9106	A3L	Dec.09, 98'	1 Year
4.	Broadband Antenna	Schwarzbeck	UHALP9107	A3H	Dec.09, 98'	1 Year

3.1.2. For No. 1 Open Site

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESVP	893202/001	May 13, 99'	1 Year
2.	Broadband Antenna	Schwarzbeck	BBA9106	A1L	Feb. 02, 99'	1 Year
3.	Broadband Antenna	Chase	UPA6109	1039	Feb. 02, 99'	1 Year

3.2. Block Diagram of Test Setup

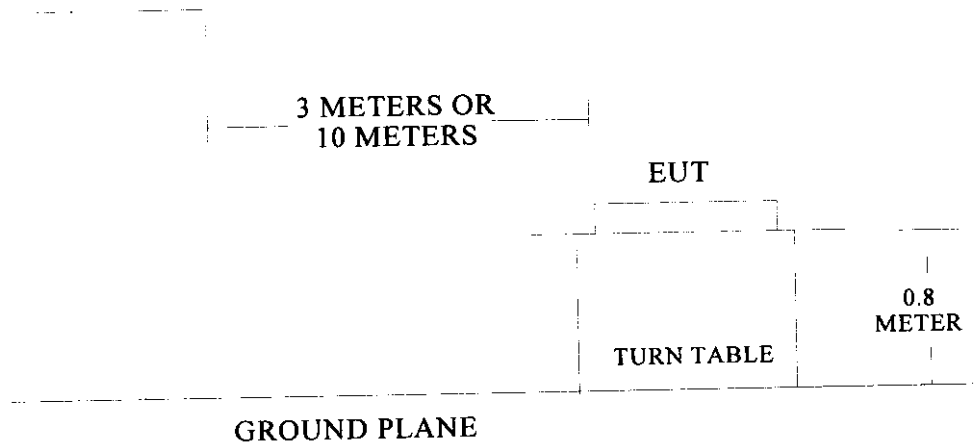
3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Anechoic Chamber (3M) & Open Field Test Site (10M) Setup Diagram

ANTENNA TOWER

ANTENNA ELEVATION VARIES FROM 1METER TO 4 METERS



3.3. Radiation Limit (CISPR 22, Class B)

All emanations from a class B computing devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dBuV/m)
30 ~ 230	10 (3)	30 (40)
230 ~ 1000	10 (3)	37 (47)

Note : (1) The tighter limit applies 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.

(3) Inside the () is 3 meters limits.

3.4. EUT's Configuration during Compliance Measurement

The configuration of EUT and its simulators were same as those used in conducted measurement. Please refer to 2.4.

3.5. Operating Condition of EUT

Same as conducted measurement which is listed in 2.5.

3.6. Test Procedure

The EUT and its simulators were placed on a turn table which was 0.8 meter above ground. The turn table rotate 360 degrees to determine the position of the maximum emission level. EUT was set 10 meters (or 3 meters at anechoic chamber) away from the receiving antenna which were mounted on a antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated biconical and log periodical antenna) and dipole antenna were used as receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4-1992 on radiated measurement.

The bandwidth of the R&S Test Receiver ESVP was set at 120KHz.

The frequency range from 30MHz to 1000MHz was checked.

The following operating conditions were measured within Anechoic Chamber and all the scanning waveform were attached within Appendix II, which include :

- (1) 38KHz (640*480, 72Hz)
- (2) 48KHz (800*600, 75Hz)
- (3) 60KHz (1024*768, 75Hz)

Finally, remeasured the worst mode (60KHz, 1024*768/75Hz) operating situation at No. 1 Open Field Test Site and all the test results were listed in section 3.8.

3.7. Test Results

PASSED. Please refer to the following pages.

3.8. Radiated Emission Measurement Results

The frequency spectrum from 30 MHz to 1000MHz was investigated. All the emissions not reported below were too low against the CISPR 22 CLASS B limit.

Date of Test : Jun. 22, 1999 Temperature : 25.7 °C
 EUT : LCD Monitor, M/N V9901 Humidity : 50 %
 Test Mode : 60KHz, 1024*768, 75Hz

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBuV	Emission Level Horizontal dBuV/m	Limits dBuV/m	Margin dB
67.500	12.34	2.01	8.22	22.57	30.00	7.43
80.000	13.22	2.14	5.53	20.89	30.00	9.11
84.637	14.06	2.20	8.58	24.84	30.00	5.16
118.150	18.71	2.43	6.43	27.57	30.00	2.43
*123.765	19.18	2.53	6.00	27.71	30.00	2.29
135.016	20.18	2.71	- 2.11	20.78	30.00	9.22
157.532	20.79	2.81	- 1.96	21.64	30.00	8.36
196.915	21.71	3.36	1.52	26.59	30.00	3.41
219.422	22.72	3.64	- 2.96	23.40	30.00	6.60
225.050	22.87	3.70	- 1.65	24.92	30.00	5.08
236.290	22.93	3.68	3.58	30.19	37.00	6.81
393.830	15.22	4.61	10.74	30.57	37.00	6.43
551.353	19.17	5.72	4.56	29.45	37.00	7.55
800.013	21.47	6.96	0.66	29.09	37.00	7.91
866.412	22.83	7.23	0.58	30.64	37.00	6.36

- Remark :
1. All readings are Quasi-Peak values.
 2. The worst emission was detected at 123.765MHz with corrected signal level of 27.71dBuV/m (limit is 30dBuV/m) when the antenna was at horizontal polarization and was at 4m high and the turn table was at 265 ° .
 3. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Date of Test : Jun. 22, 1999 Temperature : 25.7 °C
 EUT : LCD Monitor, M/N V9901 Humidity : 50 %
 Test Mode : 60KHz, 1024*768, 75Hz

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBuV	Emission Level Vertical dBuV/m	Limits dBuV/m	Margin dB
33.999	21.90	1.50	1.20	24.60	30.00	5.40
56.239	15.37	1.90	5.50	22.77	30.00	7.23
67.518	13.66	2.01	10.43	26.10	30.00	3.90
78.765	14.47	2.15	9.07	25.69	30.00	4.31
112.507	17.46	2.39	5.40	25.25	30.00	4.75
118.150	17.58	2.43	3.63	23.64	30.00	6.36
123.766	17.69	2.53	4.39	24.61	30.00	5.39
*196.910	21.65	3.36	1.39	26.40	30.00	3.60
229.265	22.53	3.63	- 2.24	23.92	30.00	6.08
236.290	23.32	3.68	5.51	32.51	37.00	4.49
393.820	15.81	4.61	9.36	29.78	37.00	7.22
433.212	16.46	5.13	4.15	25.74	37.00	11.26
472.584	17.02	5.23	1.33	23.58	37.00	13.42
551.359	18.92	5.72	4.13	28.77	37.00	8.23
600.000	19.03	5.87	- 0.79	24.11	37.00	12.89
708.875	19.60	6.49	- 0.54	25.55	37.00	11.45
800.000	21.80	6.96	0.67	29.43	37.00	7.57
866.400	23.15	7.23	0.13	30.51	37.00	6.49

- Remark :
1. All readings are Quasi-Peak values.
 2. The worst emission was detected at 196.910MHz with corrected signal level of 26.40dBuV/m (limit is 30dBuV/m) when the antenna was at vertical polarization and was at 1m high and the turn table was at 320 ° .
 3. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

4. DEVIATION TO TEST SPECIFICATIONS

【 NONE 】

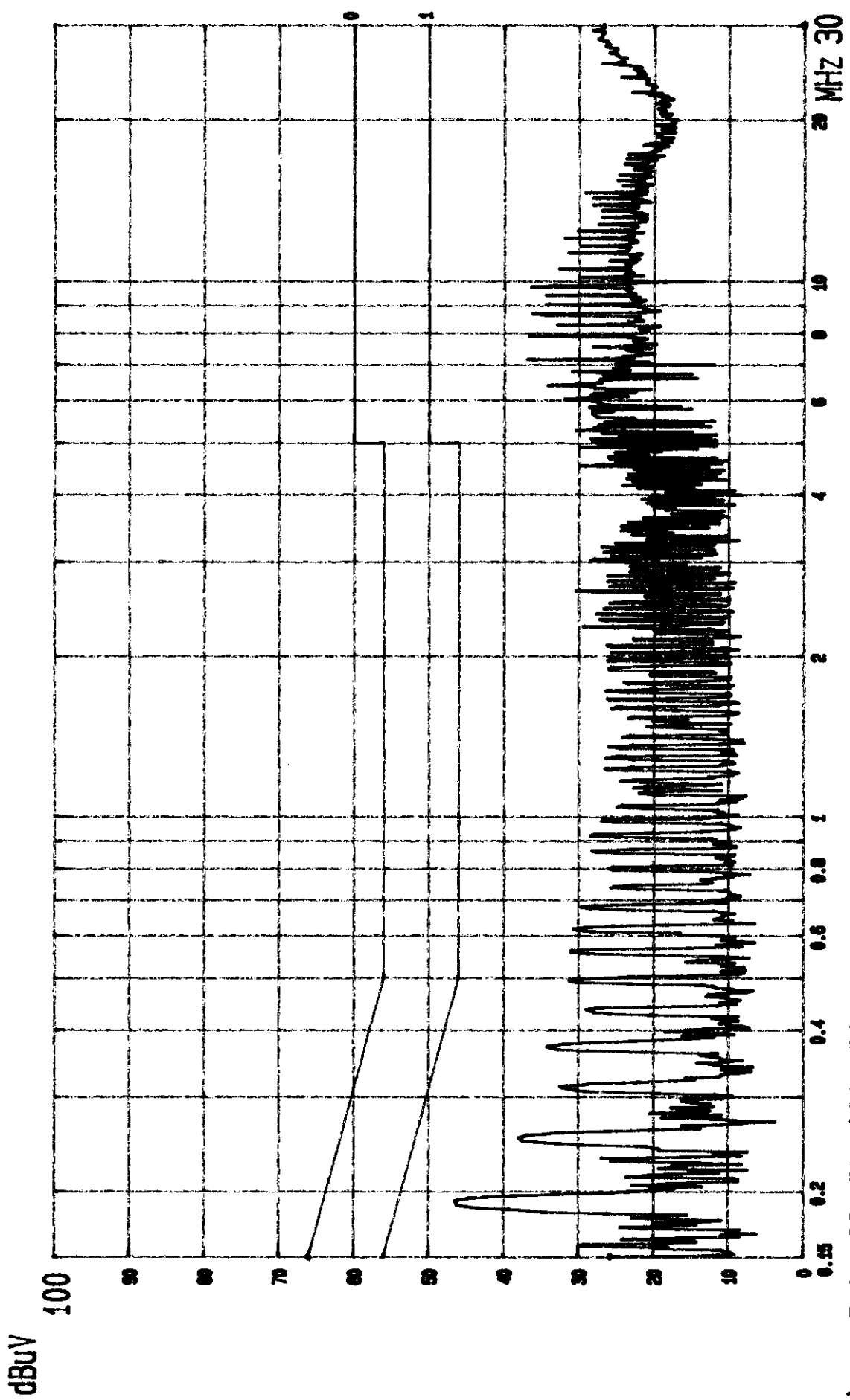
5. MODIFICATIONS TO EUT

1. Added 22pF capacitors on the CP1 ~ CP9.
2. Added ferrite beads on the RP1~RP9.
3. Added ferrite beads on the R6~R9.
4. Added a 22pF bypass capacitor on the Pin 117 of U2.
5. Added a ferrite bead on the Pin 117 of U2.
6. Added a 22pF bypass capacitor on the Pin 116 of U2.
7. Added 33pF bypass capacitors on the Pin 1, 10, 13 and Pin 14 of U7.
8. Added a 100000pF bypass capacitor on the Pin 2 of U7.
9. Changed resistor R28 into ferrite bead.
10. Added a 33 Ω resistor on the Pin 51 of U9.
11. Used a shielding mesh on the CN1 cable and CN6 cable.
12. Used a shielding mesh and added a ferrite core on the CN4 cable.
13. Added a ferrite core with 2 turns on the JP3 cable.
14. Added a ferrite core with 2 turns on the CO1 cable.
15. Added 120pF bypass capacitors on the Pin 2, 3 and a 10000pF bypass capacitor on the Pin 1 of DP1, DP2, DP3 and DP4.
16. Added 120pF bypass capacitors on the Pin 2, 3 and a 10000pF bypass capacitor on the Pin 1 of VP1.
17. Added conductive tape between LCD's shielding plate and main board's shielding plate.
18. Added conductive tape on the shielding plate of main board (back side).

APPENDIX I

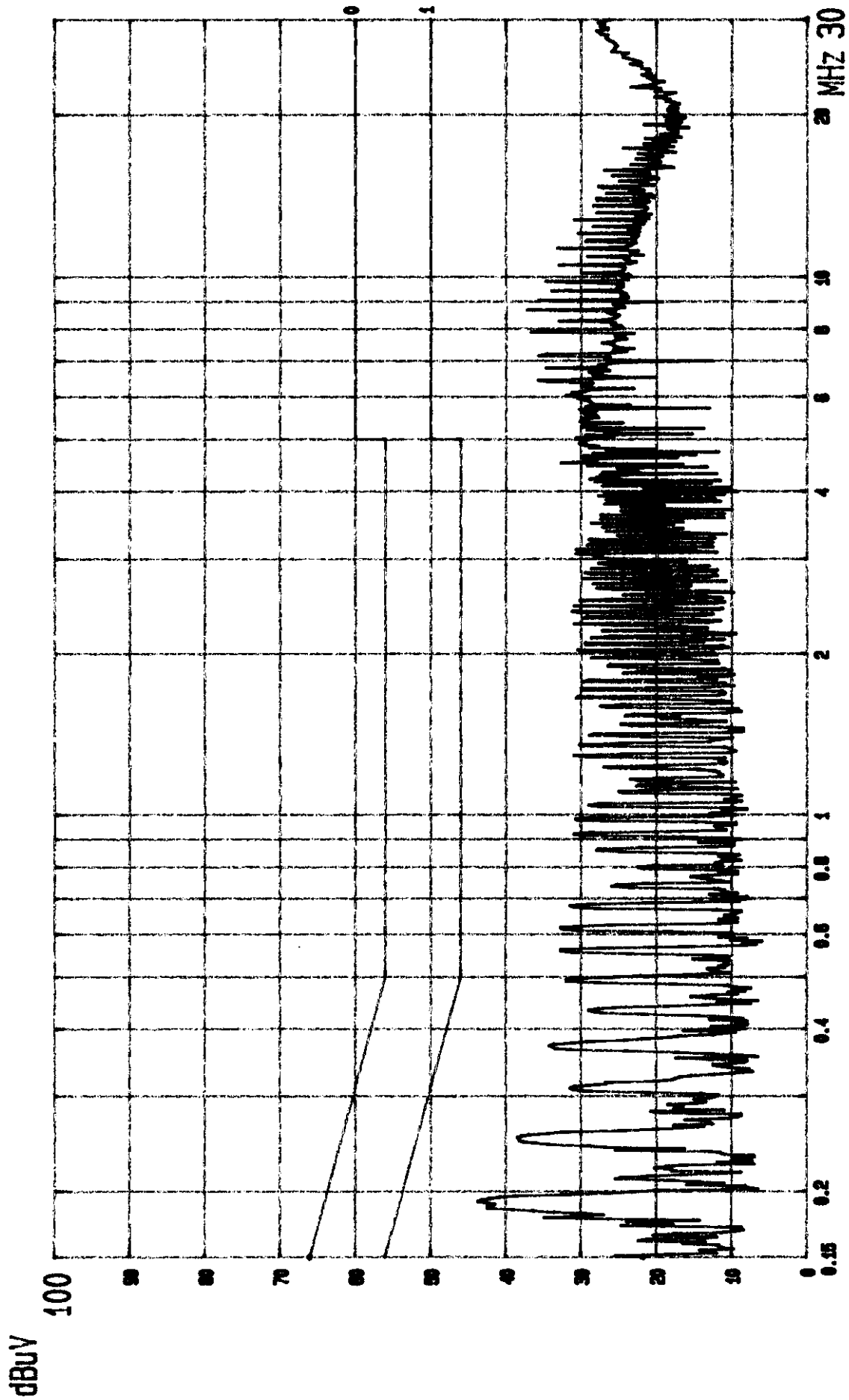
Conducted Test Data

(Total Pages : 4)



----- Date 23 JUN '99 Time 11:01:05
SOURCE EUT: LCD MONITOR M/N: VW 9901
LINE: VA. MEMO: 38KHz (640X480; 72Hz)

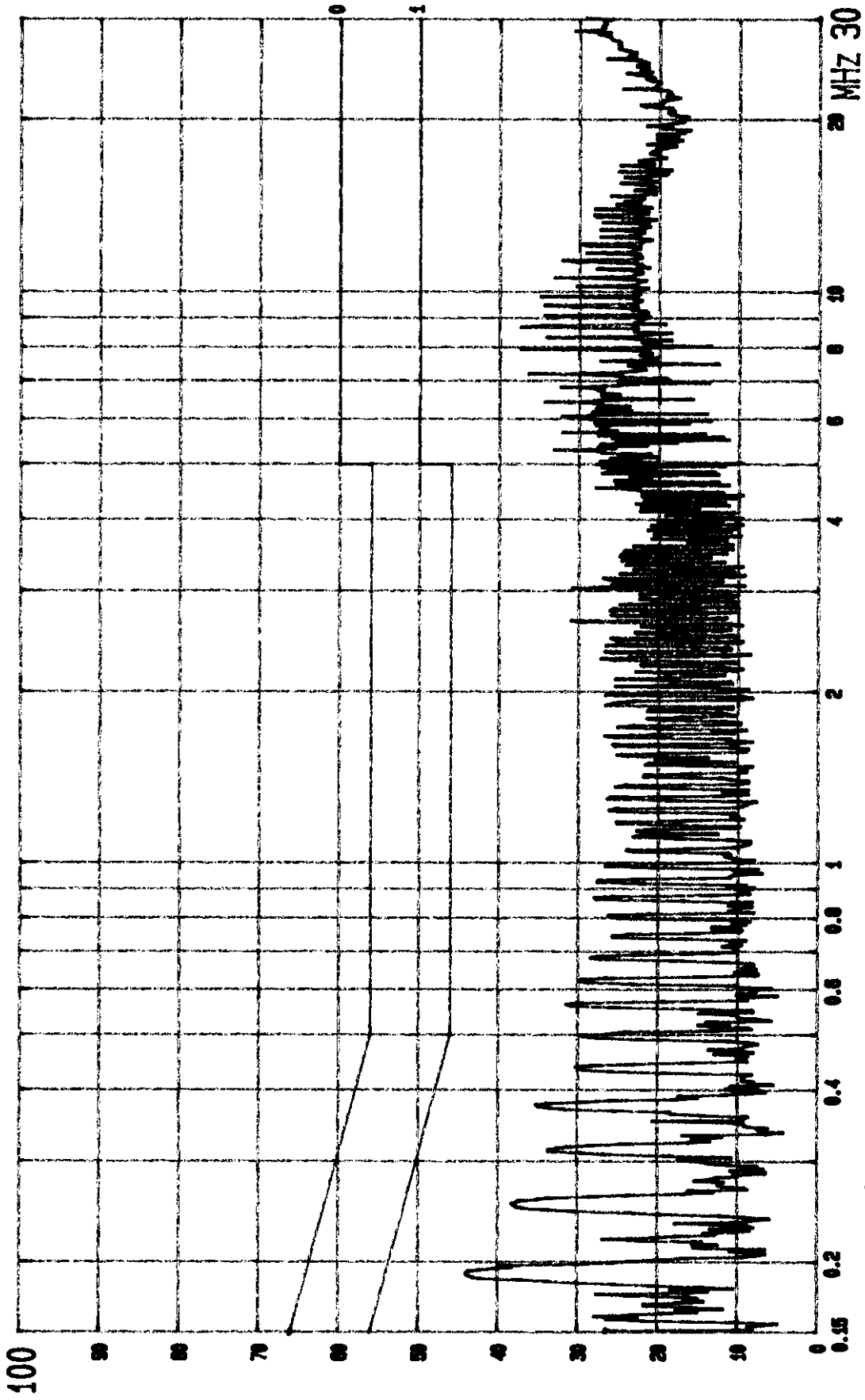
120V/60Hz PAGE: 02.
(PEAK VALUE) TTEMC.



--- Date 23.JUN.'99 Time 10:59:20
SOURCE EUT: LCD MONITOR M/N: VW 9901
LINE: VB. MEMO: 38KHz (640X480; 72Hz)

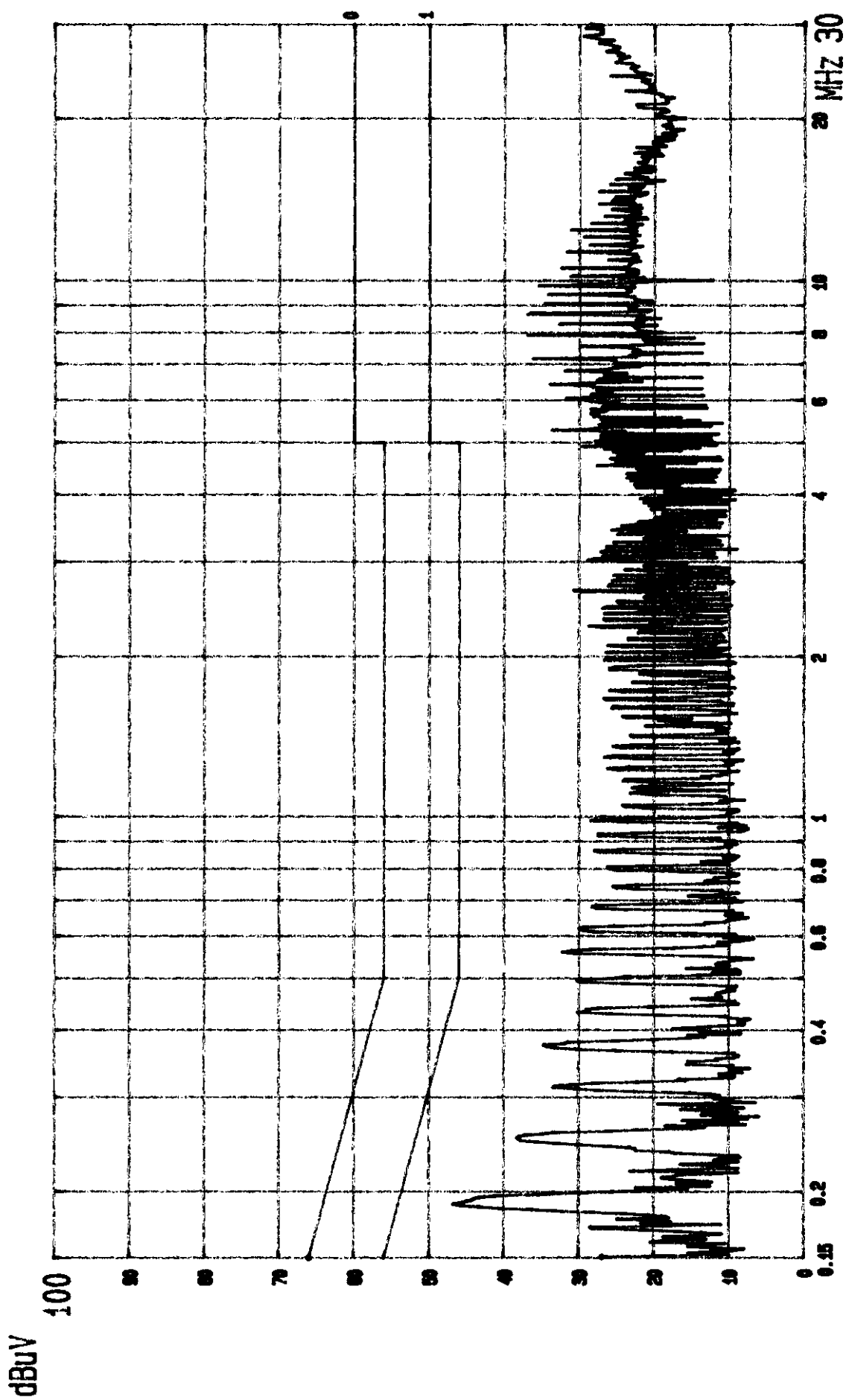
120V/60Hz PAGE: 01.
(PEAK VALUE) TTEMC.

dBuV



--- Date 23.JUN.'99 Time 11:16:52
SOURCE EUT: LCD MONITOR M/N: VW 9901
LINE: VA. MEMO: 48KHz (800X600; 75Hz)

120V/60Hz PAGE: 01.
(PEAK VALUE) TTEMC.



--- Date 23.JUN.'99 Time 11:03:11
SOURCE EUT: LCD MONITOR M/N: VW 9901
LINE: VB. MEMO: 48KHz (800X600; 75Hz)
120V/60Hz PAGE: 02.
(PEAK VALUE) TTEM.

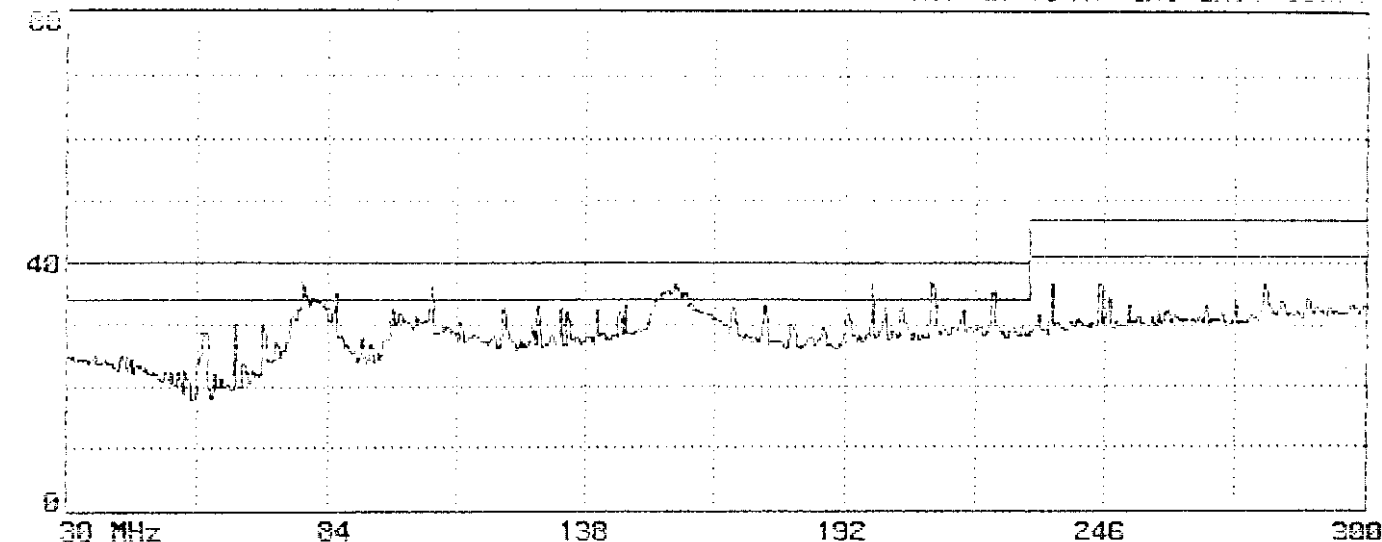
APPENDIX II

Radiated Test Data at Anechoic Chamber

(Total Pages : 6)

Page#: 35 SP File#: SOURCE.E1
 JSM/1m ANECHOIC CHAMBER

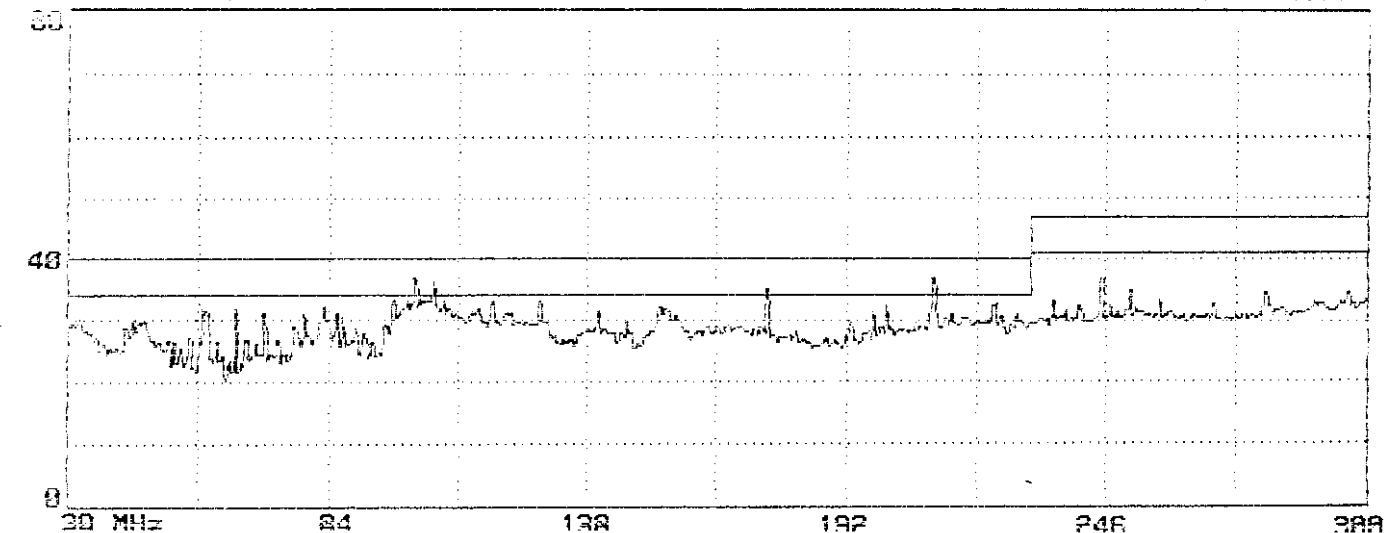
Date: 96-10-1999 Time: 10:45:47
 TAIWAN TOKIN EMC ENG. CORP.



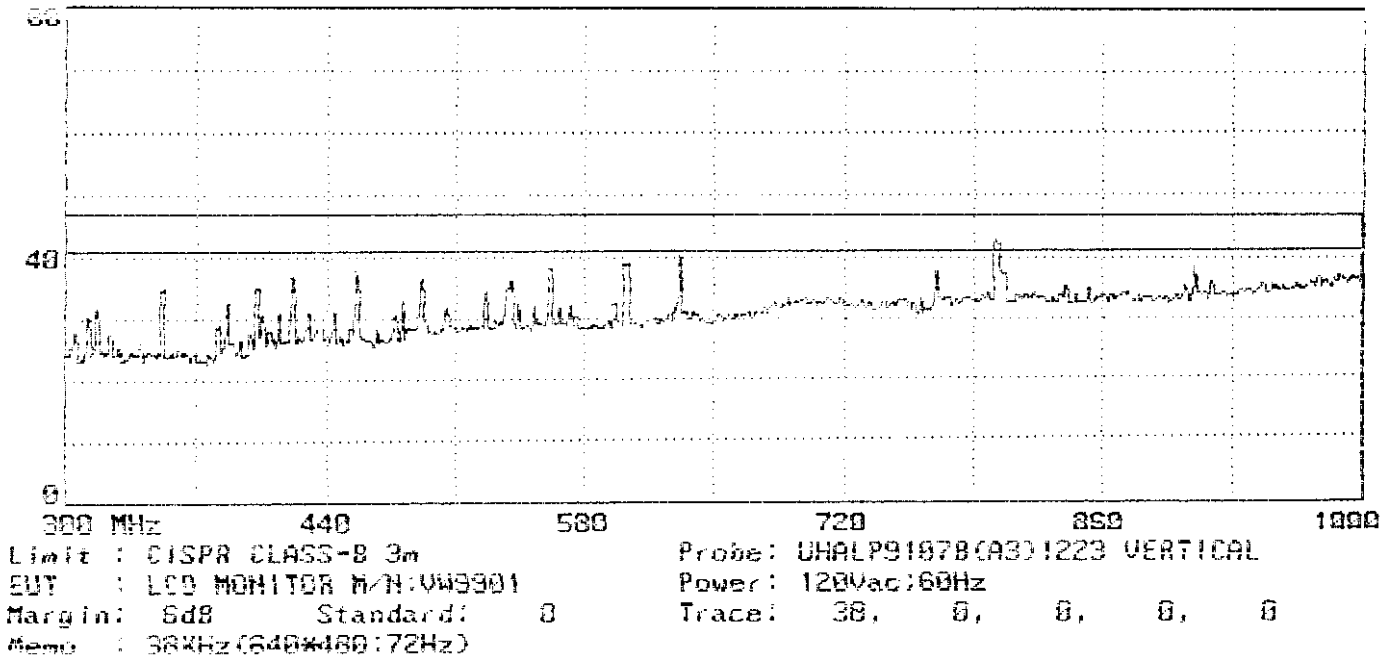
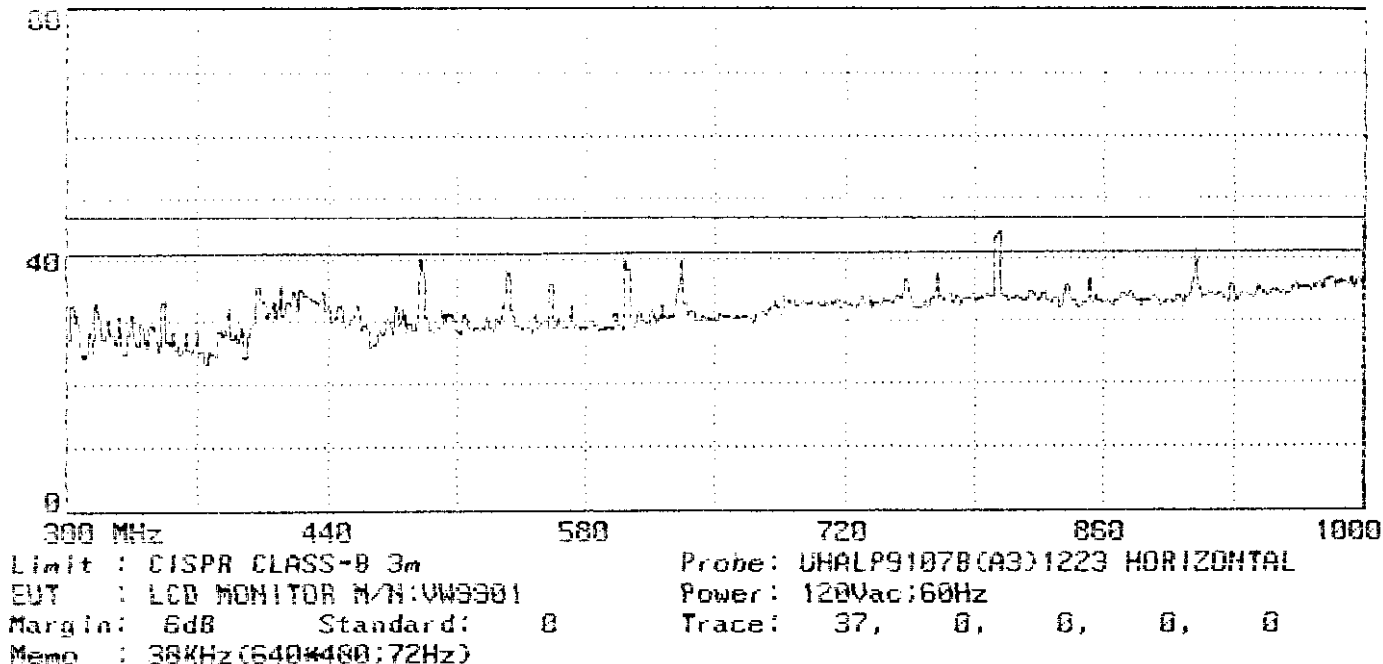
Limit : CISPR CLASS-B 3m Probe: BBA91068(A3)1223 HORIZONTAL
 EUT : LCD MONITOR M/N:UW9901 Power: 120Vac/60Hz
 Margin: 6dB Standard: 0 Trace: 35, 0, 0, 0, 0
 Memo : 38KHz(640*480:72Hz)

Page#: 36 SP File#: SOURCE.E1
 JSM/1m ANECHOIC CHAMBER

Date: 96-10-1999 Time: 10:46:59
 TAIWAN TOKIN EMC ENG. CORP.



Limit : CISPR CLASS-B 3m Probe: BBA91068(A3)1223 VERTICAL
 EUT : LCD MONITOR M/N:UW9901 Power: 120Vac/60Hz
 Margin: 6dB Standard: 0 Trace: 36, 0, 0, 0, 0
 Memo : 38KHz(640*480:72Hz)

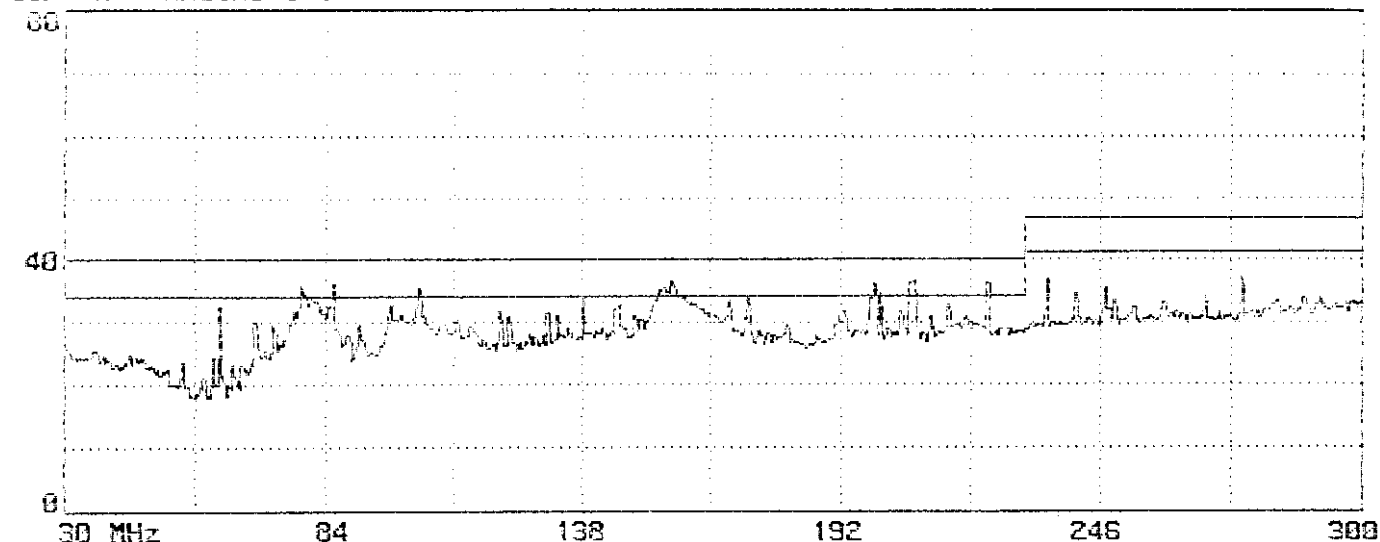


Page#: 33 SP File#: SOURCE.E1

Date: 96-19-1999 Time: 18:42:01

120V/6 ANECHOIC CHAMBER

TAIWAN TOKIN ENG. ENG. CORP.



Limit : CISPR CLASS-B 3m

Probe: 88A91068(A3)1223 HORIZONTAL

EUT : LCD MONITOR M/N:VW9901

Power: 120Vac;60Hz

Margin: 6dB Standard: 0

Trace: 33, 0, 0, 0, 0

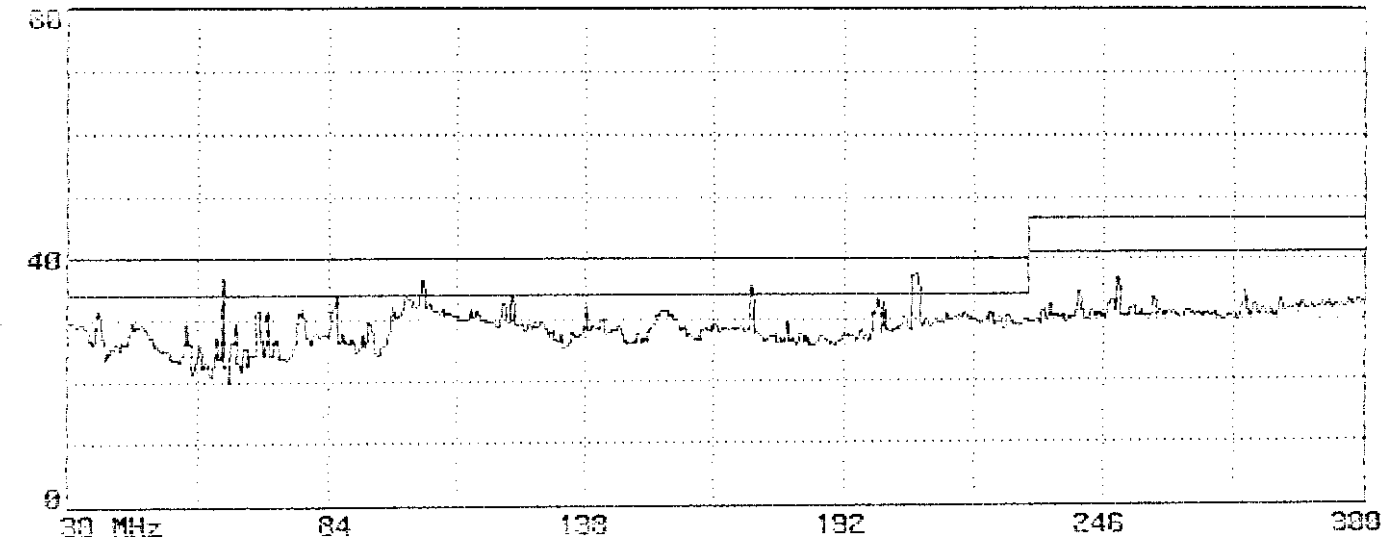
Memo : 48KHz(800*600;75Hz)

Page#: 34 SP File#: SOURCE.E1

Date: 96-19-1999 Time: 18:43:02

120V/6 ANECHOIC CHAMBER

TAIWAN TOKIN ENG. ENG. CORP.



Limit : CISPR CLASS-B 3m

Probe: 88A91068(A3)1223 VERTICAL

EUT : LCD MONITOR M/N:VW9901

Power: 120Vac;60Hz

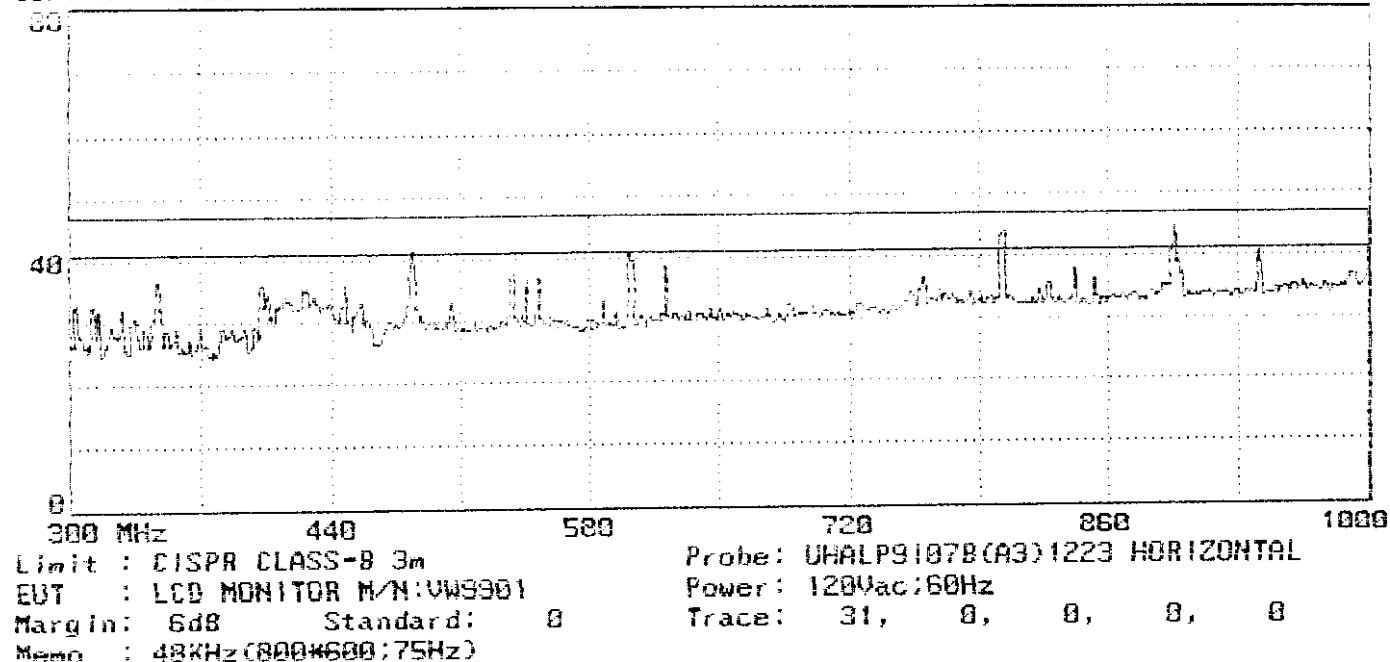
Margin: 6dB Standard: 0

Trace: 34, 0, 0, 0, 0

Memo : 48KHz(800*600;75Hz)

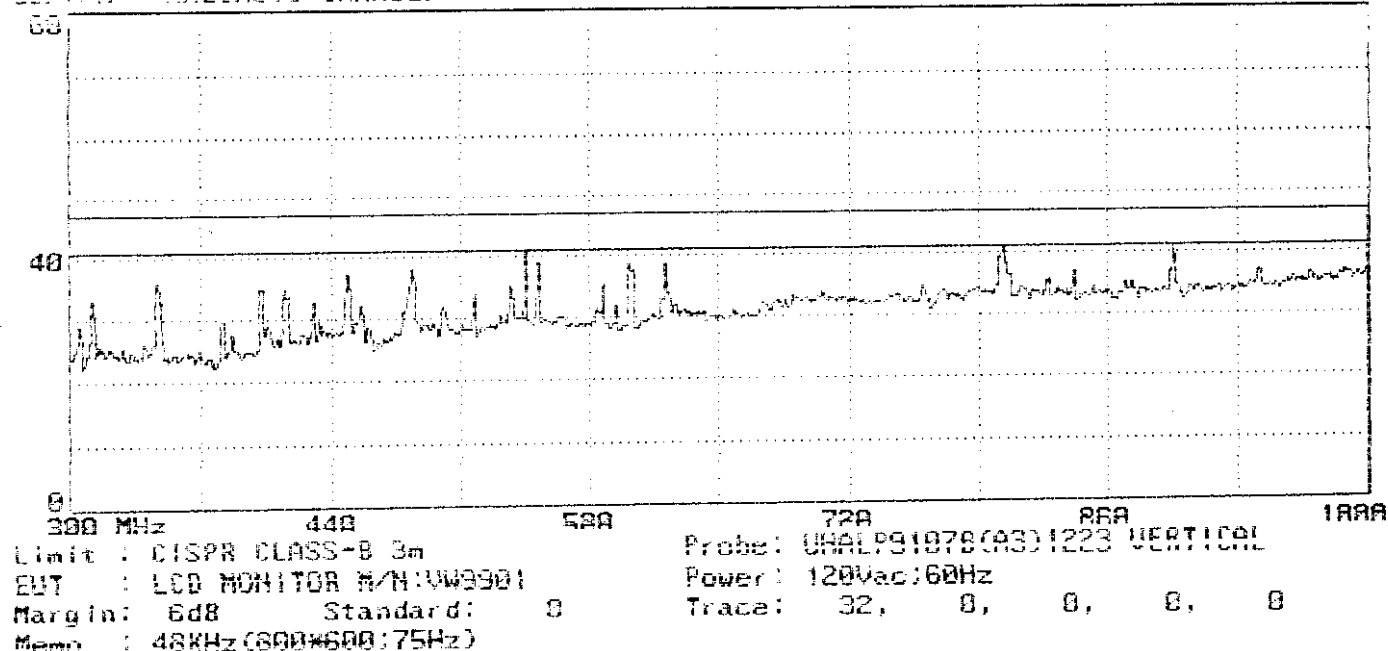
Page#: 31 SP File#: SOURCE.E1
J2401-1 ANECHOIC CHAMBER

Date: 86-10-1999 Time: 10:38:22
TAIWAN TOKIN ENG. ENG. CORP.



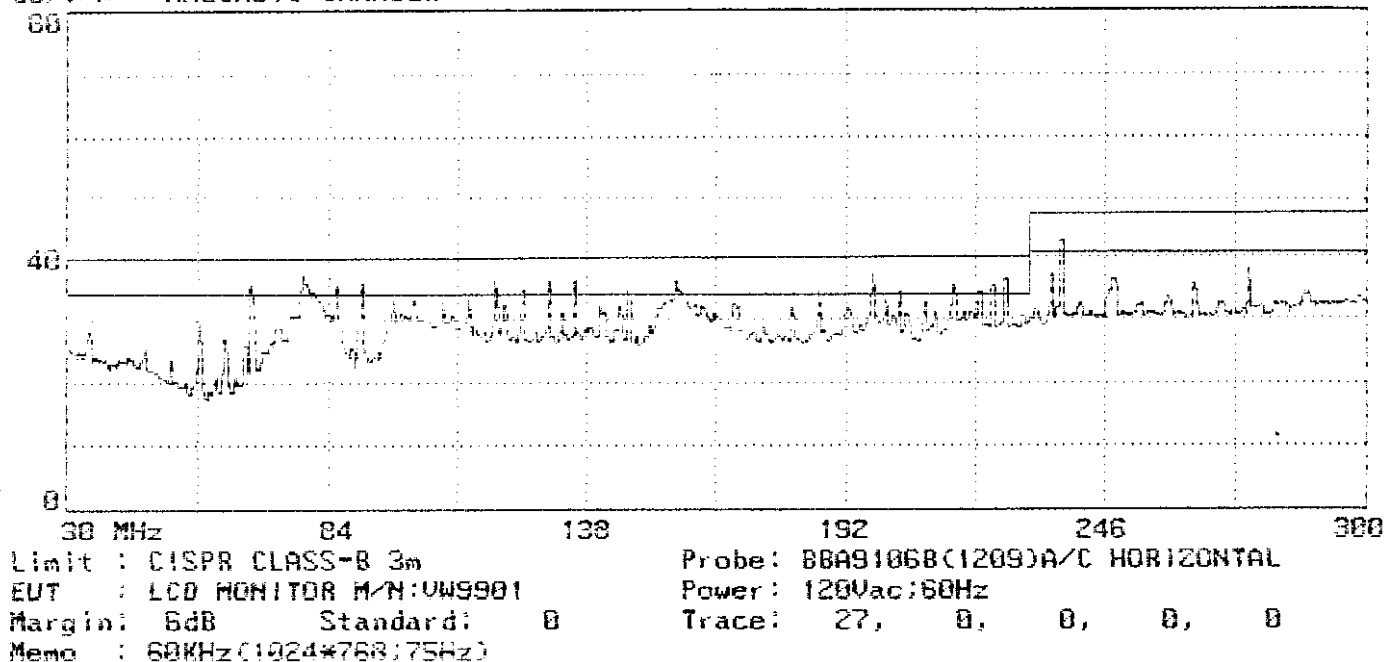
Page#: 32 SP File#: SOURCE.E1
J2401-1 ANECHOIC CHAMBER

Date: 86-10-1999 Time: 10:39:22
TAIWAN TOKIN ENG. ENG. CORP.



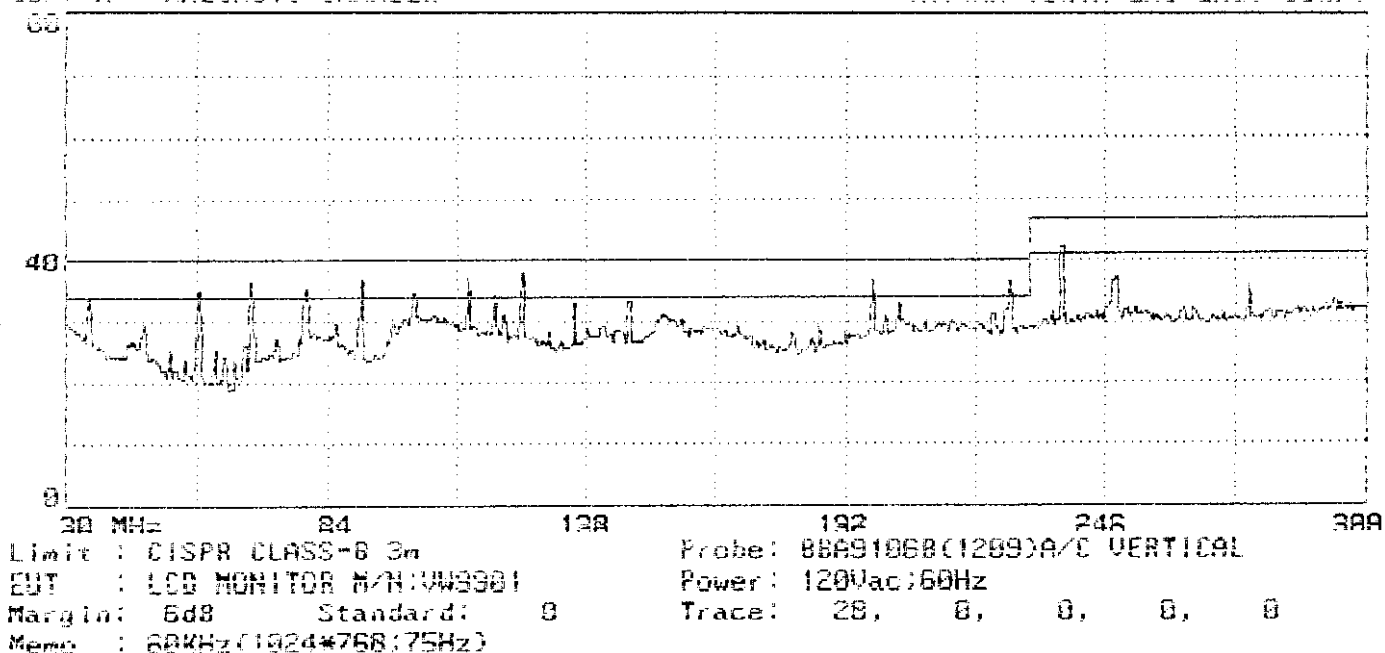
Page#: 27 SP File#: SOURCE.E1
 230V/50Hz ANECHOIC CHAMBER

Date: 86-19-1999 Time: 10:28:15
 TAIWAN TOKIN EMC ENG. CORP.



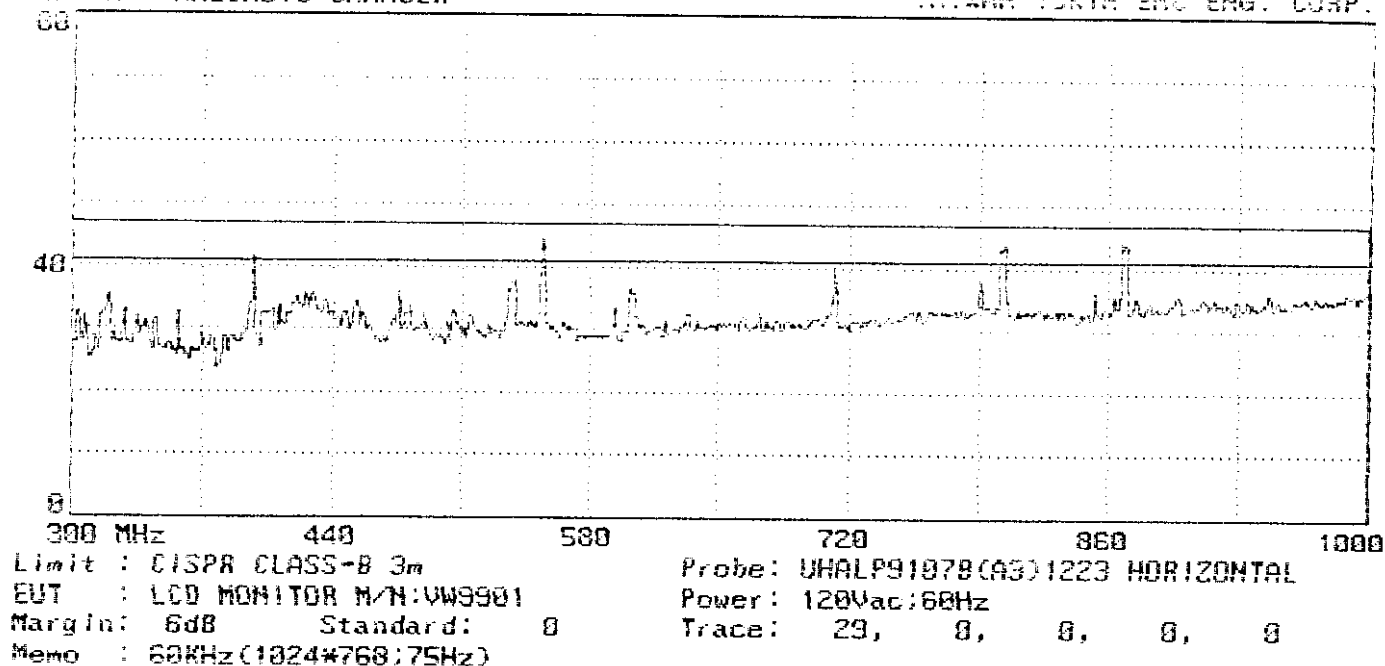
Page#: 28 SP File#: SOURCE.E1
 230V/50Hz ANECHOIC CHAMBER

Date: 86-19-1999 Time: 10:29:25
 TAIWAN TOKIN EMC ENG. CORP.



Page#: 29 SP File#: SOURCE.E1
JSA/Km ANECHOIC CHAMBER

Date: 96-19-1999 Time: 10:31:50
TAIWAN TOKIN EMC ENG. CORP.



Page#: 30 SP File#: SOURCE.E1
JSA/Km ANECHOIC CHAMBER

Date: 96-19-1999 Time: 10:32:39
TAIWAN TOKIN EMC ENG. CORP.

