

APPLICATION FOR CERTIFICATION
Class II Permissive Change
On Behalf of
Top Victory Electronics (Taiwan) Co., Ltd.
19" Color Monitor

Model : 9Glrs

FCC ID : ARSCM9950

Prepared for : Top Victory Electronics (Taiwan) Co., Ltd.
18F, 738 Chung-Cheng Rd., Chung-Ho 235,
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File Number : ATM-G99478 (G99116,G98626)
Report Number : TTEMC-F99152
Date of Test : Sep. 14 ~ 23, 1999
Date of Report : Oct. 04, 1999

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TEST REPORT CERTIFICATION (Class II Permissive Change)

Applicant : Top Victory Electronics (Taiwan) Co., Ltd.
 Manufacturer : Top Victory Electronics (Fujian) Co., Ltd.
 FCC ID : ARSCM9950
 EUT Description : 19" Color Monitor
 (A) MODEL NO. : 9Glrs
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : 120V AC/60Hz

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 compliance 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 : Sep. 14 ~ 23, 1999

Prepared by : Monica Chang
(MONICA CHANG)

Test Engineer : Allen Wang
(ALLEN WANG)

Approve & Authorized Signer : Jackie Deng
(JACKIE DENG)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	19" Color Monitor
Model Number	:	9Glrs
FCC ID	:	ARSCM9950
Applicant	:	Top Victory Electronics (Taiwan) Co., Ltd. 18F, 738 Chung-Cheng Rd., Chung-Ho 235, Taipei Hsien, Taiwan, R.O.C.
Manufacturer	:	Top Victory Electronics (Fujian) Co., Ltd. Yuan Hong Rd., Shang-Lu Fuqing City, Fujian, China.
CRT #1	:	Panasonic, M/N M46LNS180X18
CRT #2	:	Chunghwa, M/N M46AJN83X46
CRT #3	:	Panasonic, M/N M46LQU280X01
Data Cable #1	:	Shielded, Undetachable, 1.5m Bonded two ferrite cores
Data Cable #2	:	Shielded, Undetachable, 1.8m Bonded two ferrite cores (one on outside rear PC, the other on inside)
Data Cable #3	:	Shielded, Undetachable, 1.8m Bonded a ferrite core
Power Cord	:	Non-Shielded, Detachable, 1.8m
Data of Receipt of Sample	:	Sep. 03, 1999
Date of Test	:	Sep. 14 ~ 23, 1999

Remark :

This EUT is a modified version of original FCC ID ARSCM9950.

The details of difference list are as follows:

1. to add a third source of CRT (Panasonic, M/N M46LQU280X01) and data cable (Shielded, Undetachable, 1.8m with a ferrite core).
2. to re-layout the video board.

1.2. Tested Supporting System Details

1.2.1. PERSONAL COMPUTER

Mother Board	:	Asus, M/N P2L97 FCC By DoC
CPU	:	Intel Pentium II 233MMX
S.P.S.	:	Powertech, M/N PT-6145DE3
Floppy Driver 3.5"	:	Mitsumi, M/N D359T6
Case	:	Enlight, M/N EN-7230
Hard Disk Driver	:	Seagate, M/N ST32122A
VGA Card	:	C.P., M/N CM64SD FCC By DoC
Disk Ctrl Card	:	Within Mother Board
Serial/Parallel Card	:	Within Mother Board
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.2. KEYBOARD

Model Number	:	5121
Serial Number	:	J83300819
FCC ID	:	E5XKBM104M10UC
Manufacturer	:	Behavior Tech Computer Corp.
Data Cable	:	Shielded, Undetachable, 1.0m

1.2.3. USB KEYBOARD

Model Number	:	KU-8933
Serial Number	:	8H17800114
FCC ID	:	By DoC
Manufacturer	:	Chicony Electronics Co., Ltd.
Data Cable	:	Shielded, Undetachable, 1.8m

1.2.4. PRINTER

Model Number	:	2225C+
Serial Number	:	3007S68643
FCC ID	:	DSI6XU2225
Manufacturer	:	Hewlett Packard
Power Adapter	:	Hewlett Packard, M/N 82241A
Data Cable	:	Non-Shielded, Undetachable, 2.0m Shielded, Detachable, 1.2m

1.2.5. MODEM #1

Model Number : DM-1414
 Serial Number : 980034392
 FCC ID : IFAXDM1414
 Manufacturer : Accex
 Data Cable : Shielded, Detachable, 1.2m
 Power Adapter : Amigo, Model AM-91000A
 Non-Shielded, Undetachable, 1.8m

1.2.6. MODEM #2

Model Number : DM-1414
 Serial Number : 980034391
 FCC ID : IFAXDM1414
 Manufacturer : Accex
 Data Cable : Shielded, Detachable, 1.2m
 Power Adapter : Amigo, Model AM-91000A
 Non-Shielded, Undetachable, 1.8m

1.2.7. MOUSE

Model Number : M-S35
 Serial Number : LZA82103138
 FCC ID : DZL211029
 Manufacturer : Logitech
 Data Cable : Non-Shielded, Undetachable, 1.8m

1.2.8. EARPHONE

Model Number : N/A
 Manufacturer : Panasonic
 Earphone Cable : Non-Shielded, Undetachable, 1.1m

1.2.9. USB GAMEPAD

Model Number : INT-002
 Serial Number : N/A
 FCC ID : CWTEAK032
 Manufacturer : Alps
 Data Cable : Shielded, Undetachable, 2.3m
 Bonded a ferrite core

1.3. Description of Test Facility

Site Description (No. 1 Open Site)	:	Oct. 21, 1996 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

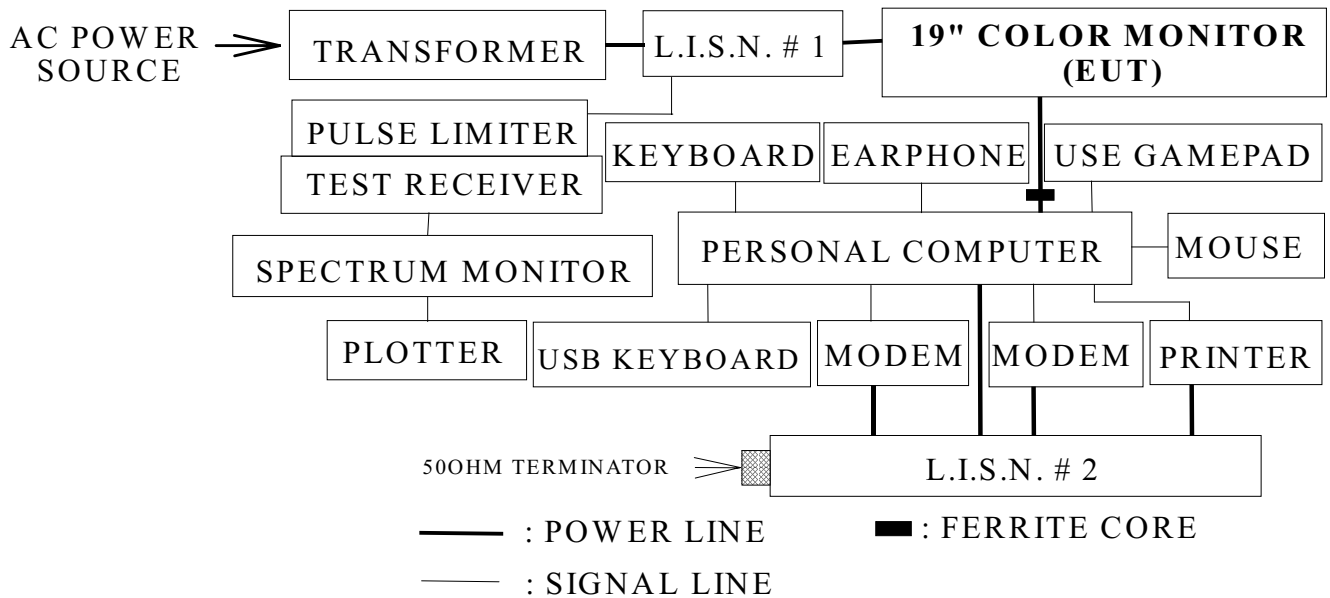
2. POWERLINE CONDUCTED TEST

2.1. Test Equipment

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

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESH3	886047/035	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



2.3. Powerline Conducted Emission Limit (CLSPR 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	50 dB

REMARKS : RF LINE VOLTAGE (dBuV) = 20 log RF LINE VOLTAGE (uV)

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 tended to maximize its emission characteristics in a normal application.

2.4.1. 19" Color Monitor (EUT)

Model Number	:	9Glrs
FCC ID	:	ARSCM9950
Manufacturer	:	Top Victory Electronics (Fujian) Co., Ltd.
CRT	:	Panasonic, M/N M46LQU280X01
Data Cable	:	Shielded, Undetachable, 1.8m 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 2.2.

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 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 other peripheral devices were driven and operated in turn during all testing.

2.6. Test Procedure

The EUT was connected to the power mains through a line impedance stabilization network (L.I.S.N. #1) and the other peripheral devices power cord were 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.

Five kinds of horizontal working frequency and display pattern were investigated during pre-scanning and report the worst mode (94KHz/1600*1200, 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) 43.4KHz (640*480, 85Hz)
- (2) 54KHz (800*600, 85Hz)
- (3) 69KHz (1024*768, 85Hz)
- (4) 91KHz (1280*1024, 85Hz)
- (5) 94KHz (1600*1200, 75Hz)

2.7. Test Results

PASSED. Please refer to the following pages.

2.8. Line Conducted RF Voltage Measurement Results

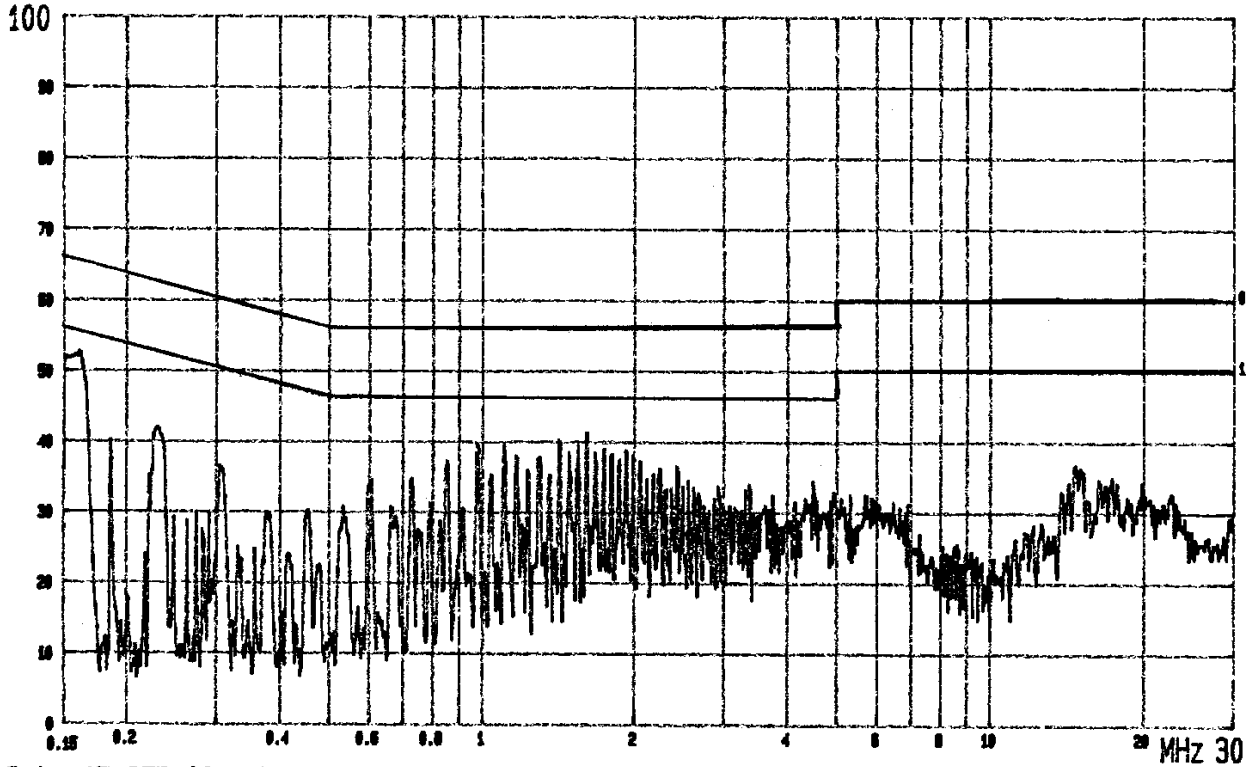
All emissions not reported below are too low against the prescribed limits.

Date of Test : Sep. 17, 1999 Temperature : 27°C
 EUT : 19" Color Monitor Humidity : 44%
 Test Mode : 94KHz (1600*1200; 75Hz)

Frequency MHz	Factor dB	Reading (dB μ V)				Measurement (dB μ V)				Limits (dB μ V)	
		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		
0.1500	0.4	54.1	45.6	54.6	44.0	54.5	46.0	55.0	44.4	66.0	56.0
0.2251	0.4	40.2	37.4	42.3	36.2	40.6	37.8	42.7	36.6	62.6	52.6
0.5996	0.5	34.9	27.0	*	*	35.4	27.5	*	*	56.0	46.0
0.9766	0.5	39.4	37.0	38.8	39.2	39.9	37.5	39.3	39.7	56.0	46.0
1.2915	0.5	*	*	39.7	39.3	*	*	40.2	39.8	56.0	46.0
1.6065	0.5	39.4	37.4	*	*	39.9	37.9	*	*	56.0	46.0
1.7322	0.5	*	*	44.6	41.2	*	*	45.1	41.7	56.0	46.0
14.6886	1.0	36.3	34.4	*	*	37.3	35.4	*	*	60.0	50.0
15.6736	1.0	*	*	37.9	34.1	*	*	38.9	35.1	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.

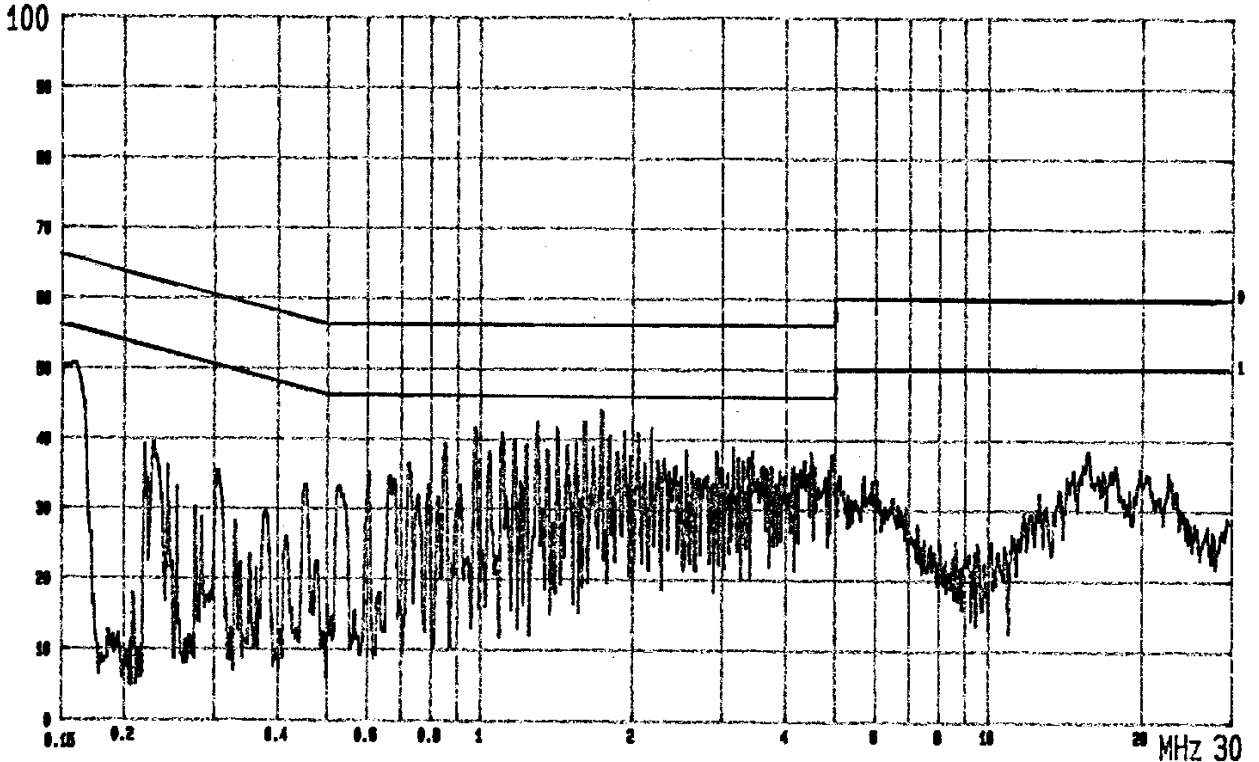
dBuV



— Date 17.SEP.'99 Time 15:22:22
TOP VICTORY EUT: 19"MONITOR M/N: 961rs
LINE: VA. MEMO: 1600*1200; 75Hz/94KHz

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

dBuV



— Date 17.SEP.'99 Time 15:27:19
TOP VICTORY EUT: 19"MONITOR M/N: 961rs
LINE: VB. MEMO: 1600*1200; 75Hz/94KHz

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

3. RADIATED EMISSION TEST

3.1. Test Equipment

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

3.1.1. For Anechoic Chamber

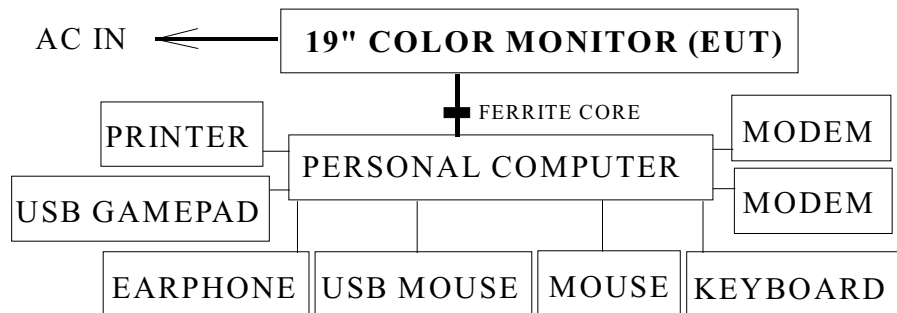
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	HP	8590L	3710A01838	Jul.16, 99'	1 Year
2.	Pre-Amplifier	HP	8447D	2944A06305	Dec.09, 98'	1 Year
3.	Broadband Antenna	Schwarzbeck	BBA 9106	A3L	Dec.09, 98'	1 Year
4.	Broadband Antenna	Schwarzbeck	UHALP 9107	A3H	Dec.09, 98'	1 Year

3.1.2. For No. 2 Open Field Site

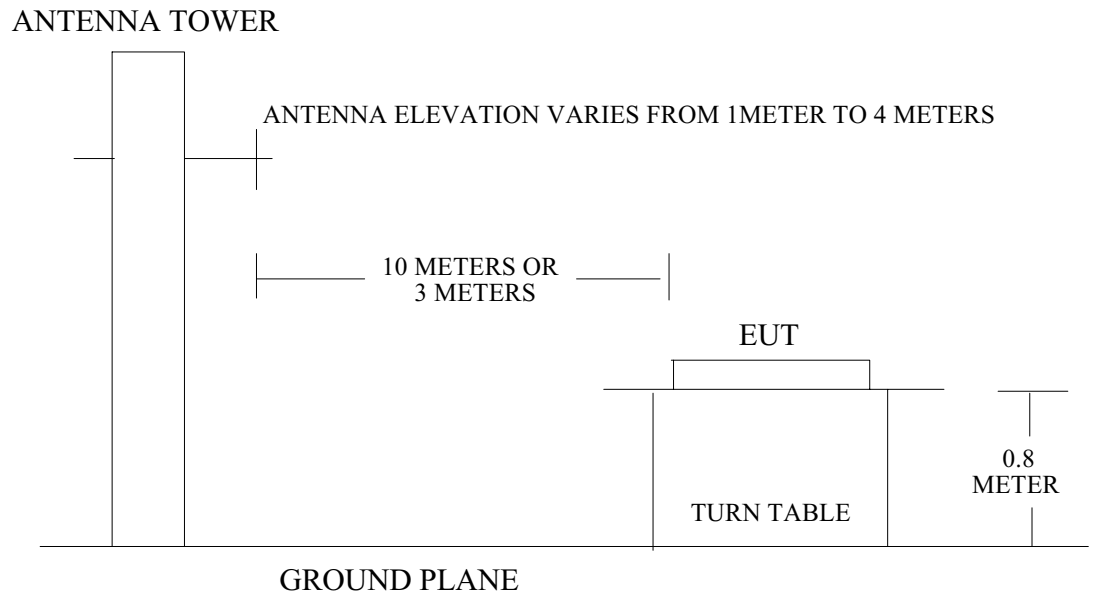
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde&Schwarz	ESVP	861190/001	Dec.21, 98'	1 Year
2.	Broadband Antenna	Chase	VBA6106A	1258	Jan.14, 99'	1 Year
3.	Broadband Antenna	Chase	UPA6109	1048	Jan.14, 99'	1 Year

3.2. Block Diagram of Test Setup

3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Anechoic Chamber (3m) and Open Field Test Site (10) Setup Diagram



3.3. Radiation Limit (CLSPR 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 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 E.U.T.
 - (3) Inside the () is 3 meters limits at anechoic chamber measurement.

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 is 0.8 meter above ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT is set 10 meters (or 3 meters at anechoic chamber) away from the receiving antenna which was mounted on a antenna tower. The antenna moved 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) 69KHz (1024*768, 85Hz)
- (2) 94KHz (1600*1200, 75Hz)

Finally, remeasured the worst mode (94KHz/1600*1200) operating situation at No. 2 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 1000 MHz was investigated. All the emissions not reported below are too low against the CISPR 22 CLASS B limit.

Date of Test : Sep. 23, 1999 Temperature : 25.3°C
 EUT : 19" Color Monitor Humidity : 58%
 Test Mode : 94KHz / 1600*1200, 75Hz

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading		Emission Level		Margin dB
			Horizontal dBuV	Horizontal dBuV/m	Limits dBuV/m		
39.389	19.28	1.70	-0.19	20.79	30.00	9.21	
118.180	18.71	2.43	-0.28	20.86	30.00	9.14	
127.915	19.63	2.57	0.91	23.11	30.00	6.89	
147.724	20.50	2.77	-1.22	22.05	30.00	7.95	
* 157.594	20.79	2.81	2.10	25.70	30.00	4.30	
196.992	21.71	3.36	-1.88	23.19	30.00	6.81	
206.825	22.43	3.50	-3.23	22.70	30.00	7.30	
226.591	23.00	3.59	-2.39	24.20	30.00	5.80	
236.405	22.93	3.68	0.19	26.80	37.00	10.20	
265.892	23.71	3.90	-2.29	25.32	37.00	11.68	
315.136	13.77	4.25	-0.44	17.58	37.00	19.42	
364.375	14.63	4.54	-1.48	17.69	37.00	19.31	
433.321	16.02	5.13	0.12	21.27	37.00	15.73	
512.113	17.27	5.67	0.12	23.06	37.00	13.94	
590.916	19.45	5.70	1.72	26.87	37.00	10.13	
630.286	20.25	5.85	4.69	30.79	37.00	6.21	
669.677	20.05	6.09	3.48	29.62	37.00	7.38	
709.063	20.64	6.49	-1.86	25.27	37.00	11.73	
768.143	21.54	6.77	-2.14	26.17	37.00	10.83	

- Remark :
1. All readings are Quasi-Peak values.
 2. The worst emission was detected at 157.594MHz with corrected signal level of 25.70dBuV/m (limit is 30dBuV/m) when the antenna was at horizontal polarization and was at 4m high and the turn table was at 280° .
 3. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

Date of Test : Sep. 23, 1999 Temperature : 25.3°C
 EUT : 19" Color Monitor Humidity : 58%
 Test Mode : 94KHz / 1600*1200, 75Hz

Frequency MHz	Antenna		Cable Meter Reading		Emission Level		Margin dB
	Factor dB/m	Loss dB	Vertical dBuV	Vertical dBuV/m	Limits dBuV/m		
39.402	19.07	1.70	6.50	27.27	30.00	2.73	
* 59.088	14.19	1.96	11.40	27.55	30.00	2.45	
118.179	17.58	2.43	6.60	26.61	30.00	3.39	
137.876	18.80	2.59	-0.20	21.19	30.00	8.81	
157.573	21.74	2.81	1.30	25.85	30.00	4.15	
177.269	22.61	3.10	-3.40	22.31	30.00	7.69	
196.966	21.65	3.36	-2.00	23.01	30.00	6.99	
216.663	23.07	3.55	-0.90	25.72	30.00	4.28	
236.359	23.32	3.68	-2.60	24.40	37.00	12.60	
256.072	22.95	3.93	-1.20	25.68	37.00	11.32	
275.754	23.41	4.18	-3.20	24.39	37.00	12.61	
315.139	12.86	4.25	1.84	18.95	37.00	18.05	
354.565	14.98	4.50	-0.77	18.71	37.00	18.29	
413.651	15.55	4.85	-1.35	19.05	37.00	17.95	
462.892	16.82	5.10	0.80	22.72	37.00	14.28	
512.137	17.77	5.67	4.64	28.08	37.00	8.92	
590.913	19.21	5.70	-0.11	24.80	37.00	12.20	
630.306	19.33	5.85	-0.30	24.88	37.00	12.12	
718.940	19.84	6.44	-2.33	23.95	37.00	13.05	

- Remark :
1. All readings are Quasi-Peak values.
 2. The worst emission was detected at 59.088MHz with corrected signal level of 27.55dBuV/m (limit is 30dBuV/m) when the antenna was at vertical polarization and was at 1m high and the turn table was at 120° .
 3. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

4. MODIFICATION TO EUT

1. Add a ferrite bead on Pin G of Q901.
2. Add a ferrite bead on Pin 18 of T901.
3. Add a ferrite core with 1 turn on the CN902 cable.
4. Add a ferrite core with 3 turns on the P701 cable.
5. Add a ferrite core with 3 turns on the P702 cable.
6. Add a ferrite core with 3 turns on the P704 cable.
7. Add a ferrite core with 3 turns on the P705 cable.
8. Add a spring finger on the heat sink of Q711.
9. Add a spring finger on the heat sink of Q721.
10. Add a spring finger on the heat sink of Q731.
11. Add bypass capacitors 100pF on Pin 2, 3, 4, 5 of P705.

5. DEVIATION TO TEST SPECIFICATIONS

【NONE】

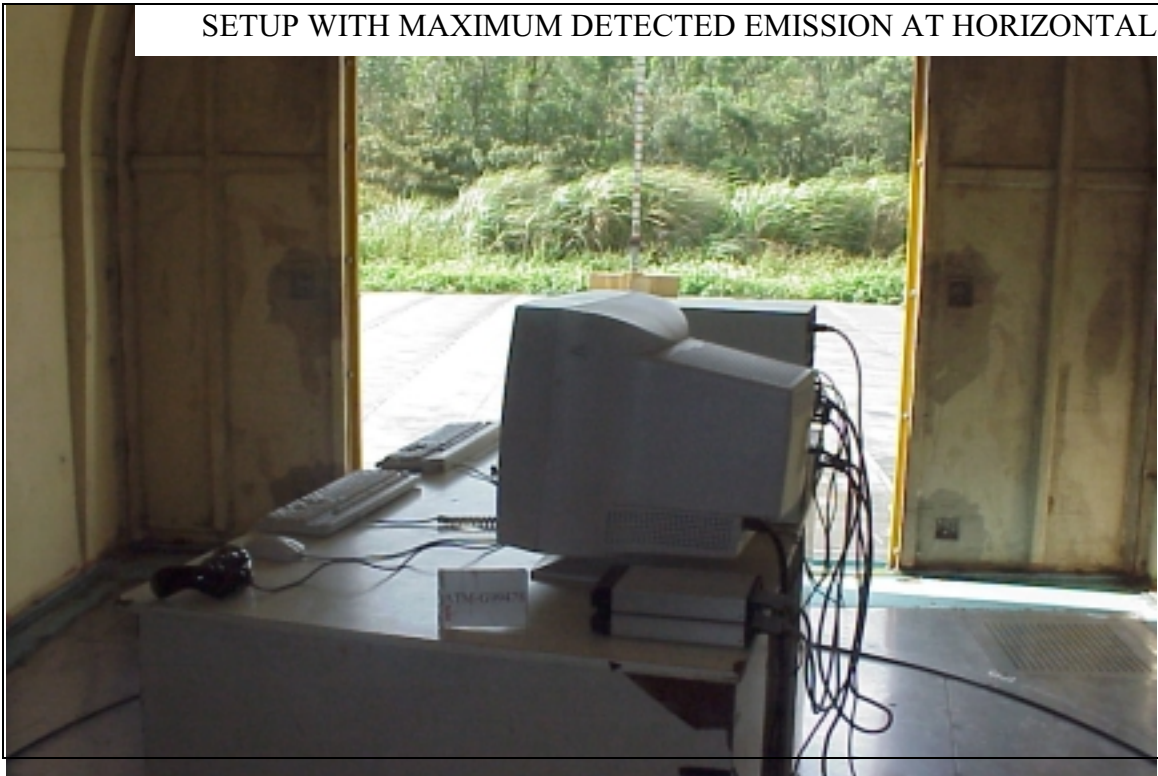
6. PHOTOGRAPHS OF MEASUREMENT

6.1. Photos of Powerline Conducted Measurement



6.2. Photos of Radiated Measurement at Open Field Test Site

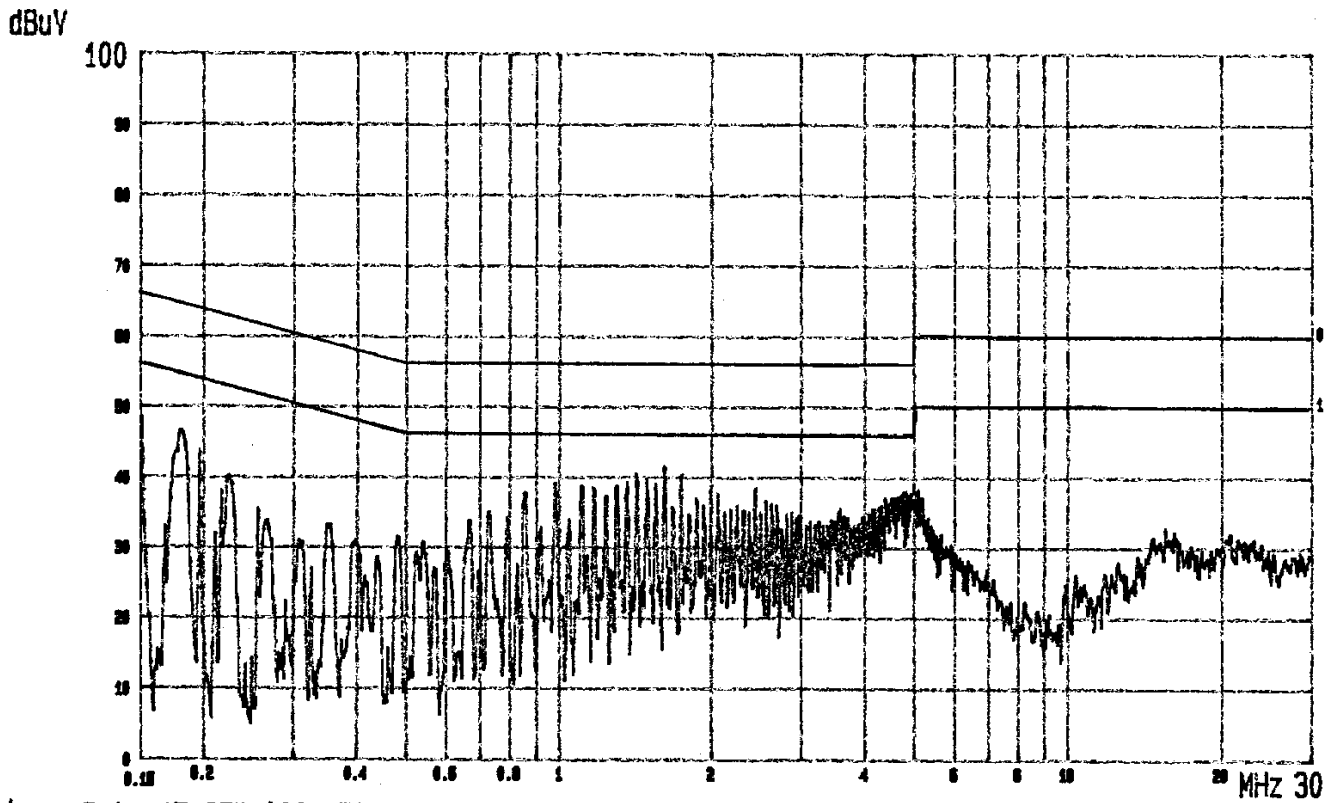




APPENDIX I

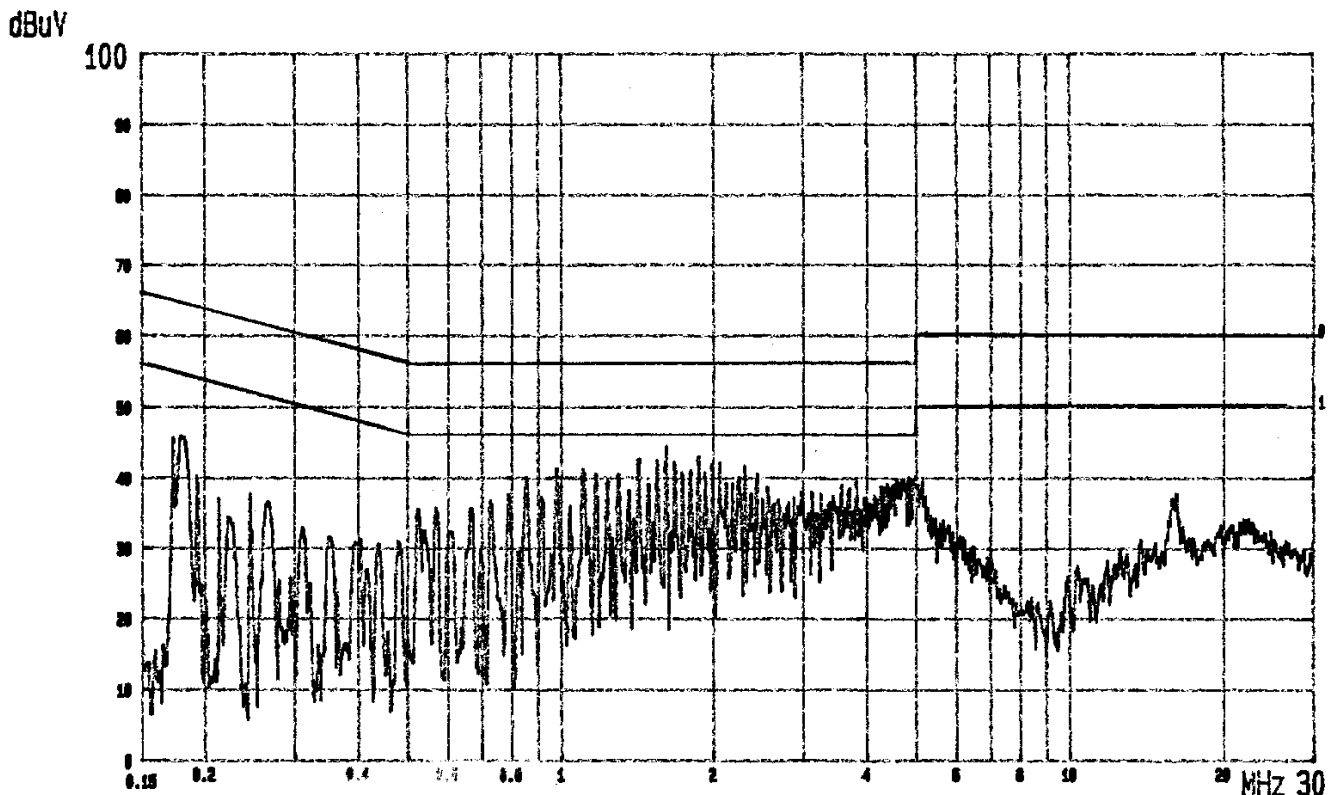
(Conducted Test Data)

Total Pages : 4



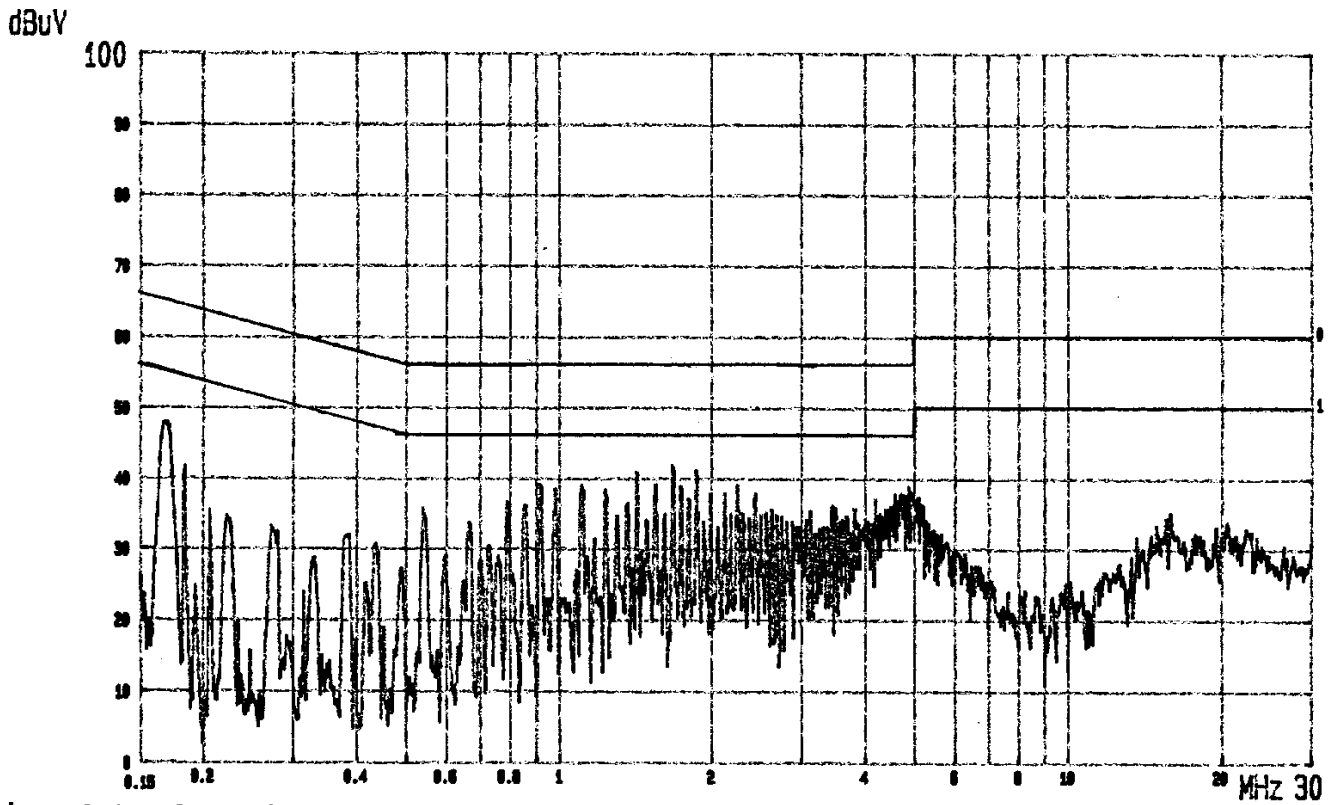
--- Date 17.SEP.'99 Time 15:49:42
TOP VICTORY EUT: 19*MONITOR M/N: 961rs
LINE: VA. MEMO: 640* 480; 85Hz/43.4KHz

120V/60Hz PAGE: 09.
(PEAK VALUE) TTEMC.



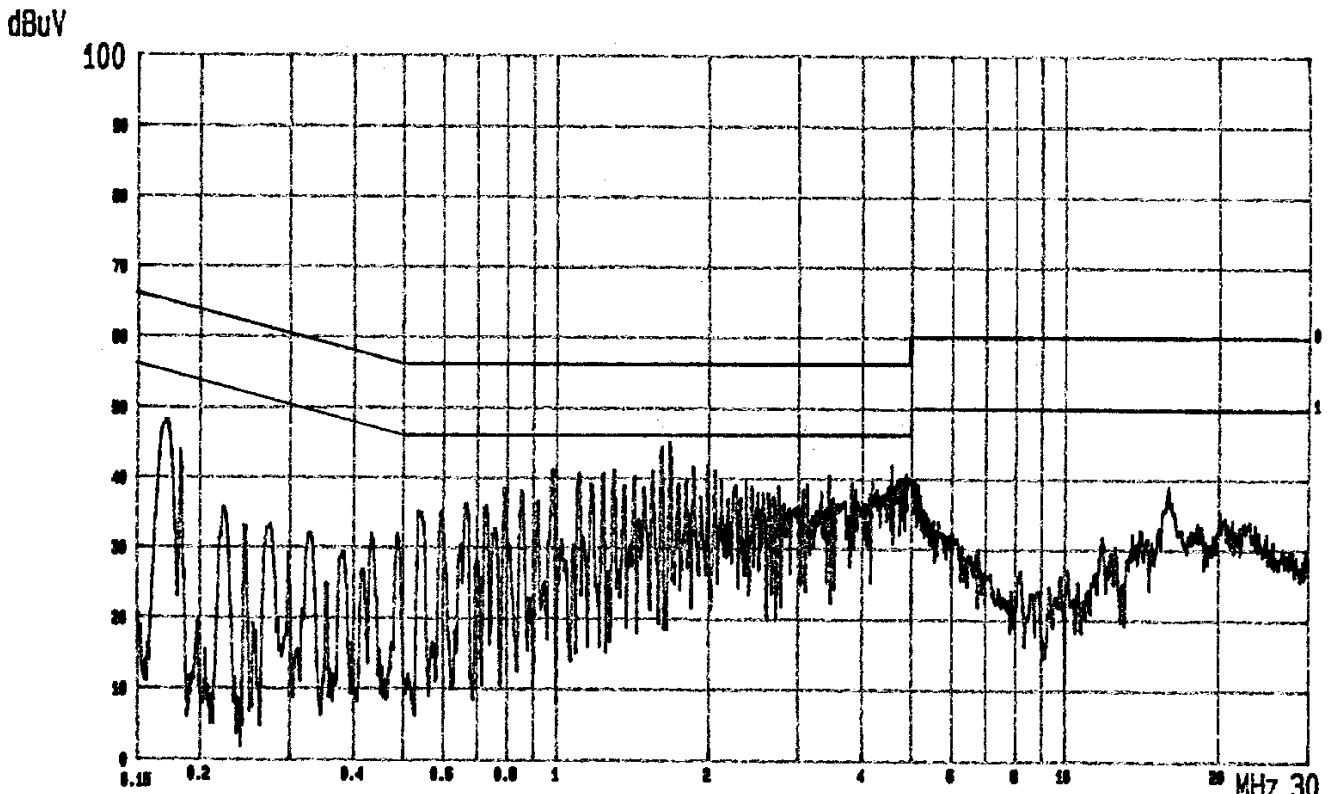
--- Date 17.SEP.'99 Time 15:51:22
TOP VICTORY EUT: 19*MONITOR M/N: 961rs
LINE: VB. MEMO: 640* 480; 85Hz/43.4KHz

120V/60Hz PAGE: 10.
(PEAK VALUE) TTEMC.



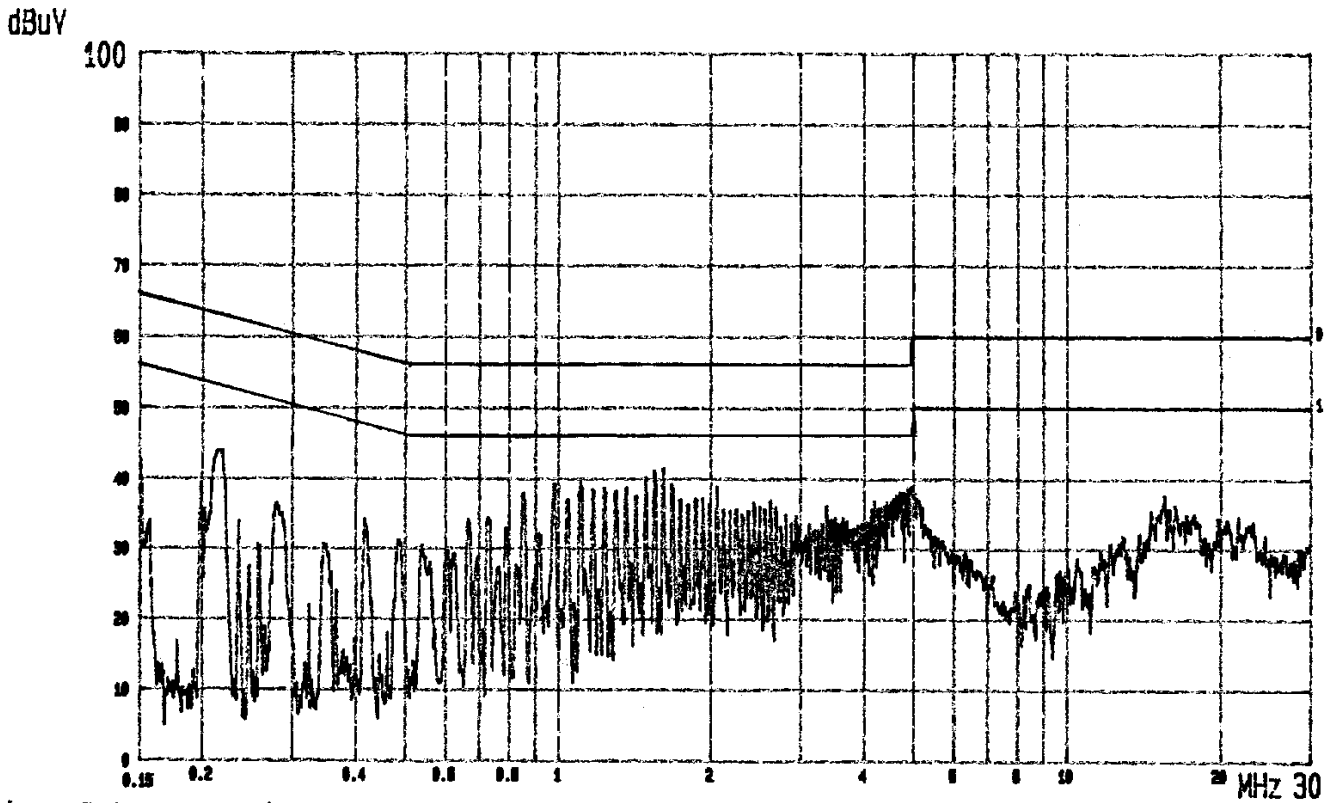
— Date 17.SEP.'99 Time 15:45:42
TOP VICTORY EUT: 19"MONITOR M/N: 961rs
LINE: VA. MEMO: 800* 600; 85Hz/54KHz

120V/60Hz PAGE: 07.
(PEAK VALUE) TTEMC.



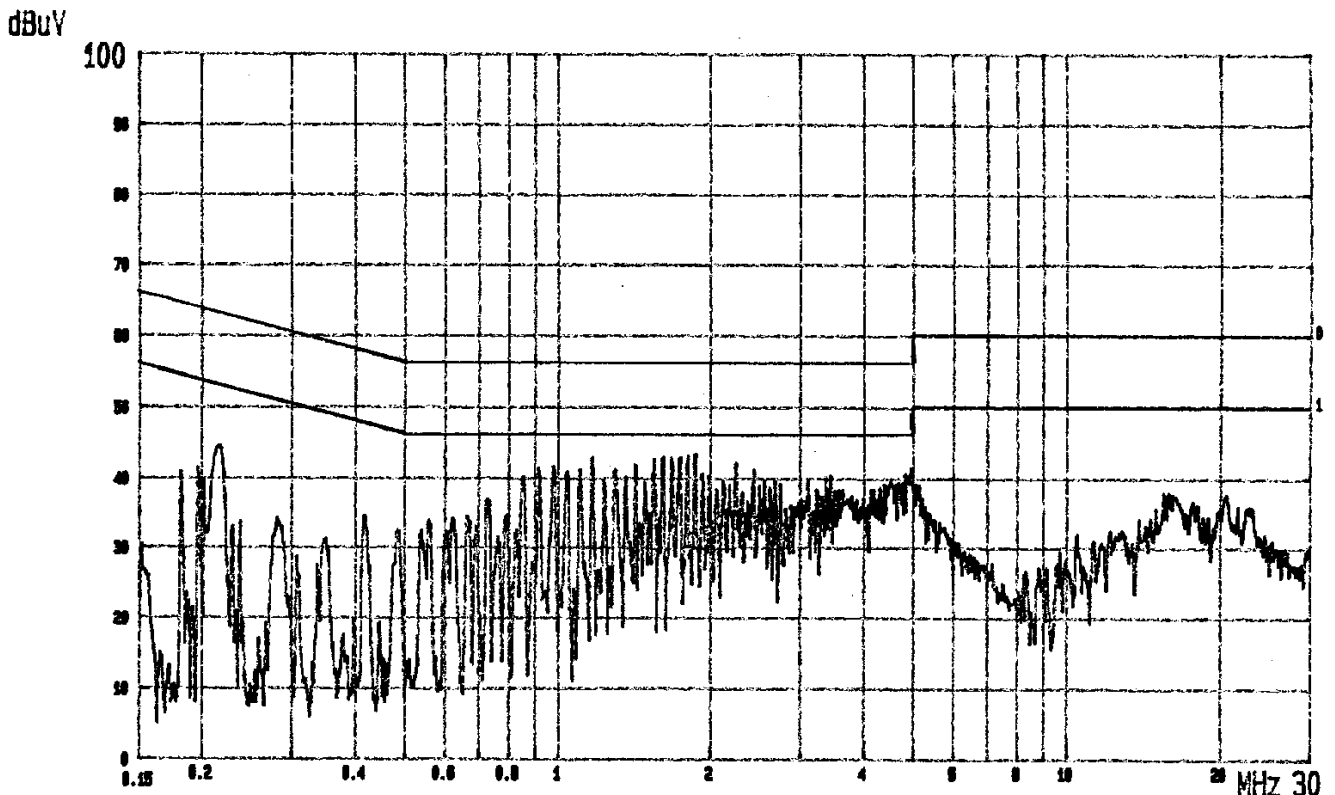
— Date 17.SEP.'99 Time 15:47:21
TOP VICTORY EUT: 19"MONITOR M/N: 961rs
LINE: VB. MEMO: 800* 600; 85Hz/54KHz

120V/60Hz PAGE: 08.
(PEAK VALUE) TTEMC.



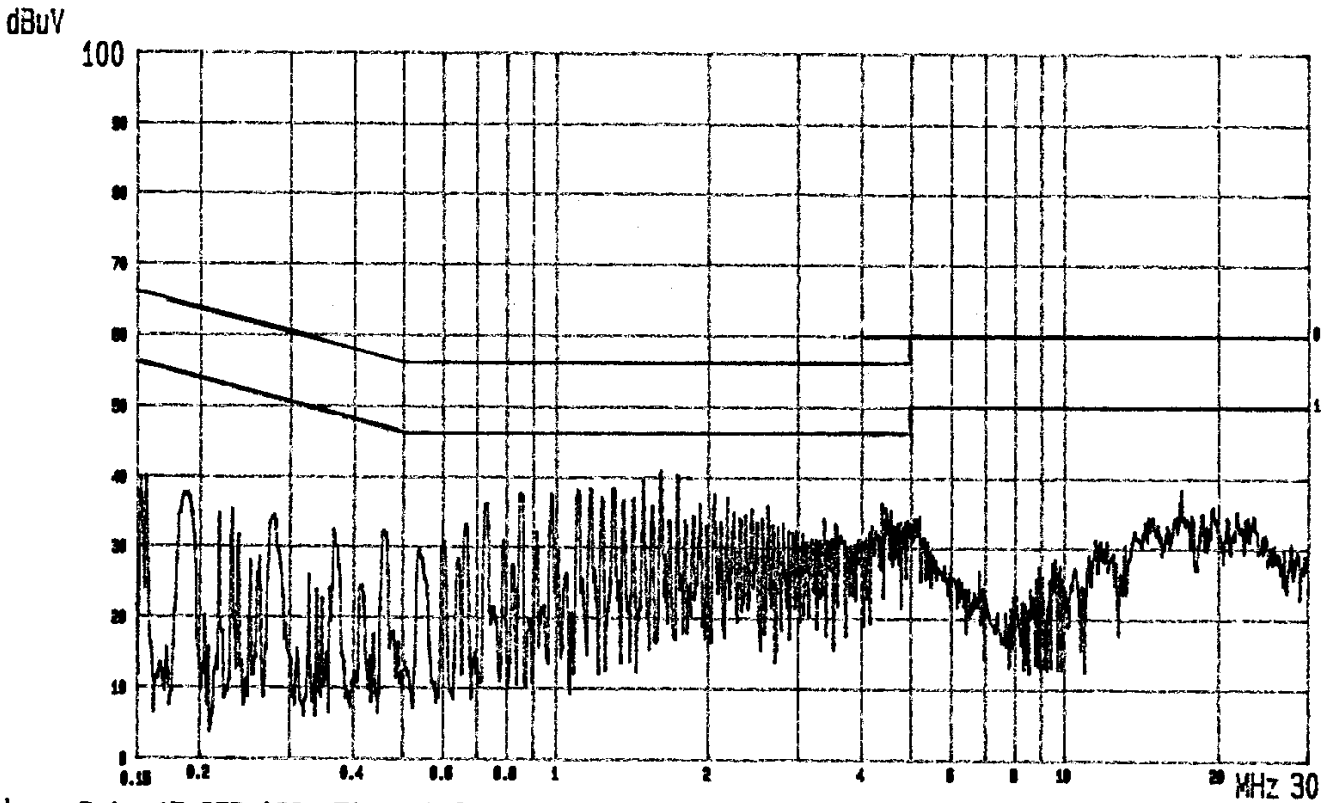
— Date 17.SEP.'99 Time 15:39:12
TOP VICTORY EUT: 19"MONITOR M/N: 961rs
LINE: VA. MEMO: 1024* 768; 85Hz/69KHz

120V/60Hz PAGE: 05.
(PEAK VALUE) TTEMC.



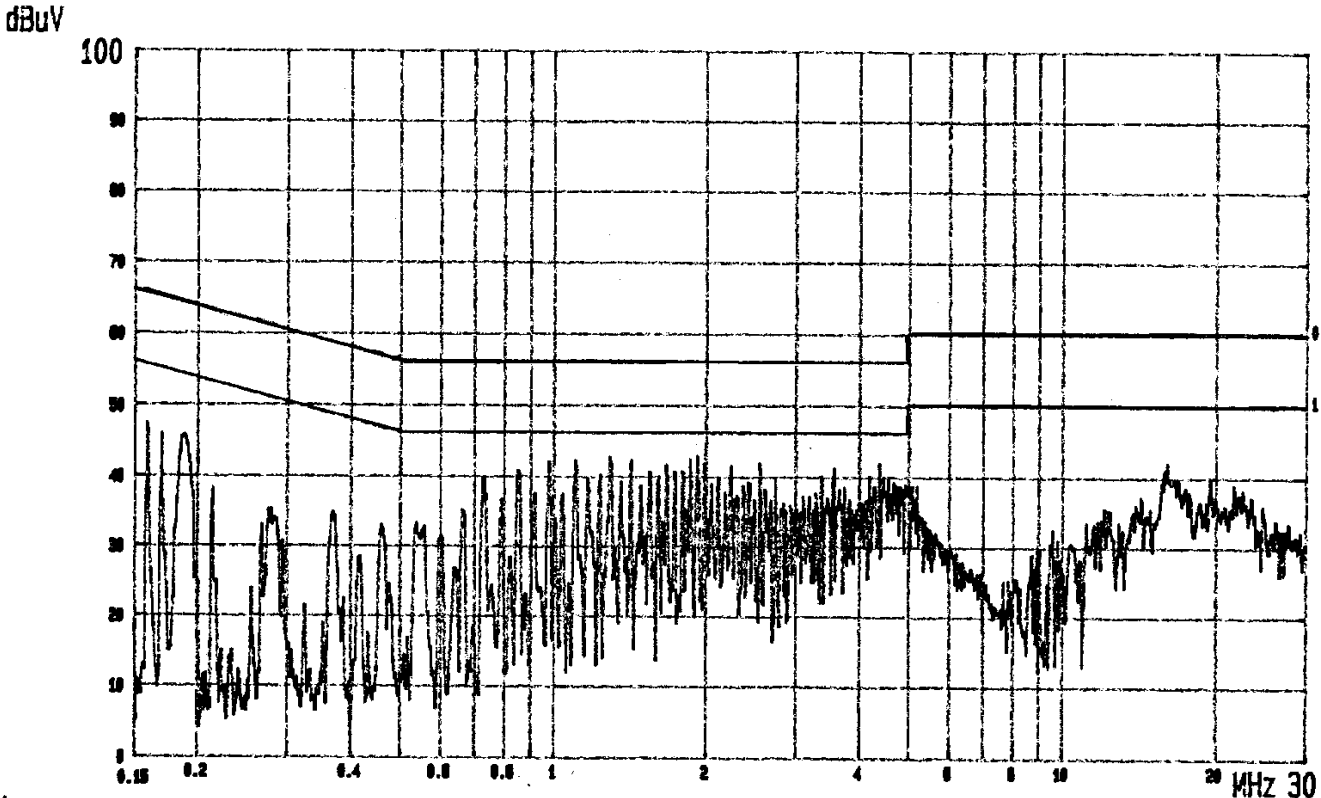
— Date 17.SEP.'99 Time 15:41:03
TOP VICTORY EUT: 19"MONITOR M/N: 961rs
LINE: VB. MEMO: 1024* 768; 85Hz/69KHz

120V/60Hz PAGE: 06.
(PEAK VALUE) TTEMC.



— Date 17.SEP.'99 Time 15:34:01
 TOP VICTORY EUT: 19"MONITOR M/N: 961rs
 LINE: VA. MEMO: 1280*1024; 85Hz/91KHz

120V/60Hz PAGE: 03.
 (PEAK VALUE) TTEMC.



— Date 17.SEP.'99 Time 15:36:01
 TOP VICTORY EUT: 19"MONITOR M/N: 961rs
 LINE: VB. MEMO: 1280*1024; 85Hz/91KHz

120V/60Hz PAGE: 04.
 (PEAK VALUE) TTEMC.

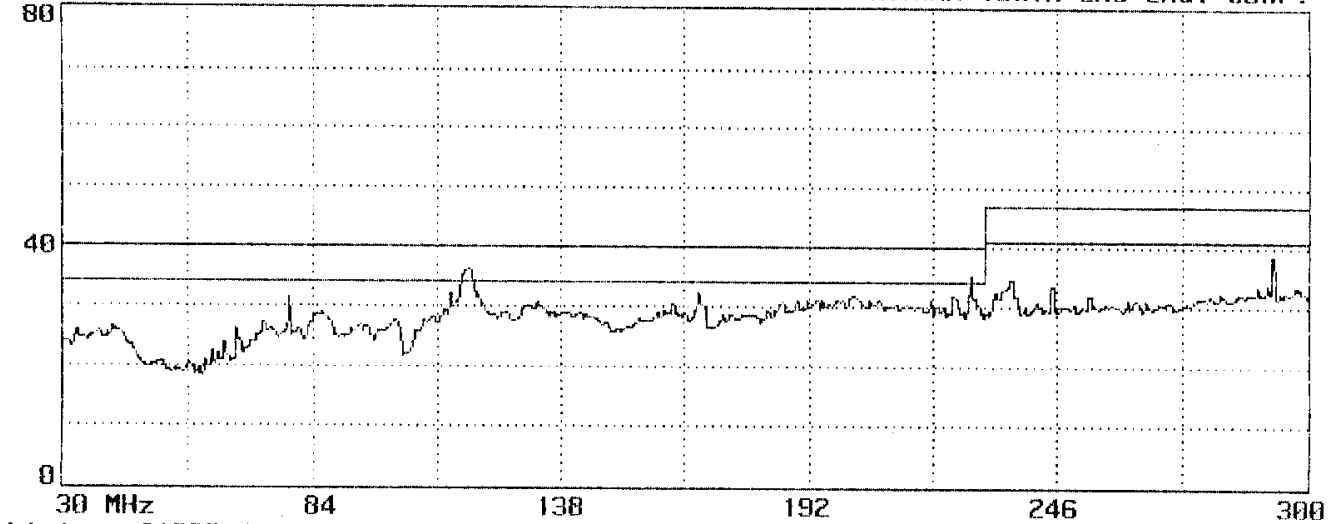
APPENDIX II

(Radiated Test Data at Anechoic Chamber)

Total Pages : 4

Page#: 318 SP File#: AOC.EI
 dB μ V/m ANECHOIC CHAMBER

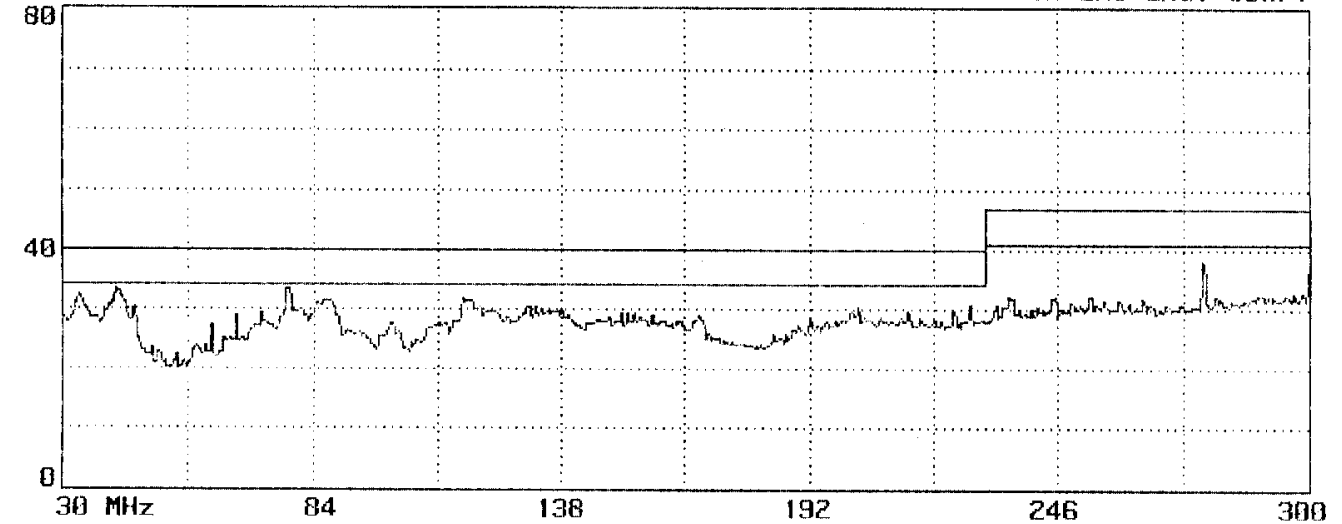
Date: 09-14-1999 Time: 19:48:55
 TAIWAN TOKIN EMC ENG. CORP.



Limit : CISPR CLASS-B 3m Probe: BB9106B(1209)A/C HORIZONTAL
 EUT : 19" Color Monitor M/N:9G1rs Power: 120V/60Hz
 Margin: 6dB Standard: 0 Trace: 318, 0, 0, 0, 0
 Memo : 69KHz(1024X768;85Hz)

Page#: 319 SP File#: AOC.EI
 dB μ V/m ANECHOIC CHAMBER

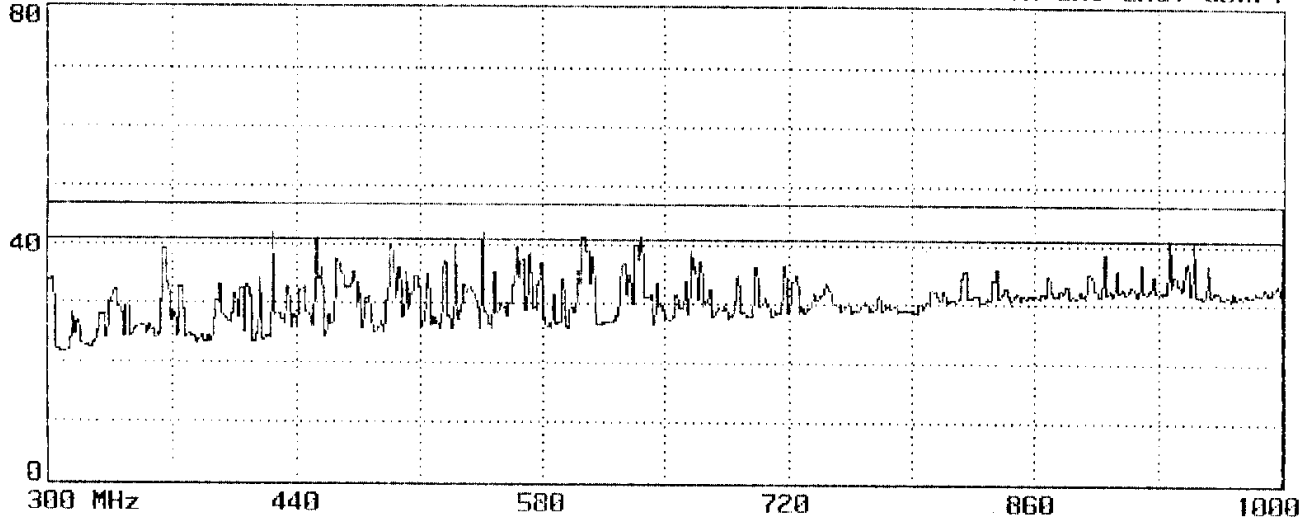
Date: 09-14-1999 Time: 19:51:23
 TAIWAN TOKIN EMC ENG. CORP.



Limit : CISPR CLASS-B 3m Probe: BB9106B(1209)A/C VERTICAL
 EUT : 19" Color Monitor M/N:9G1rs Power: 120V/60Hz
 Margin: 6dB Standard: 0 Trace: 319, 0, 0, 0, 0
 Memo : 69KHz(1024X768;85Hz)

Page#: 320 SP File#: AOC.EI
 dB μ V/m ANECHOIC CHAMBER

Date: 09-14-1999 Time: 19:55:34
 TAIWAN TOKIN EMC ENG. CORP.

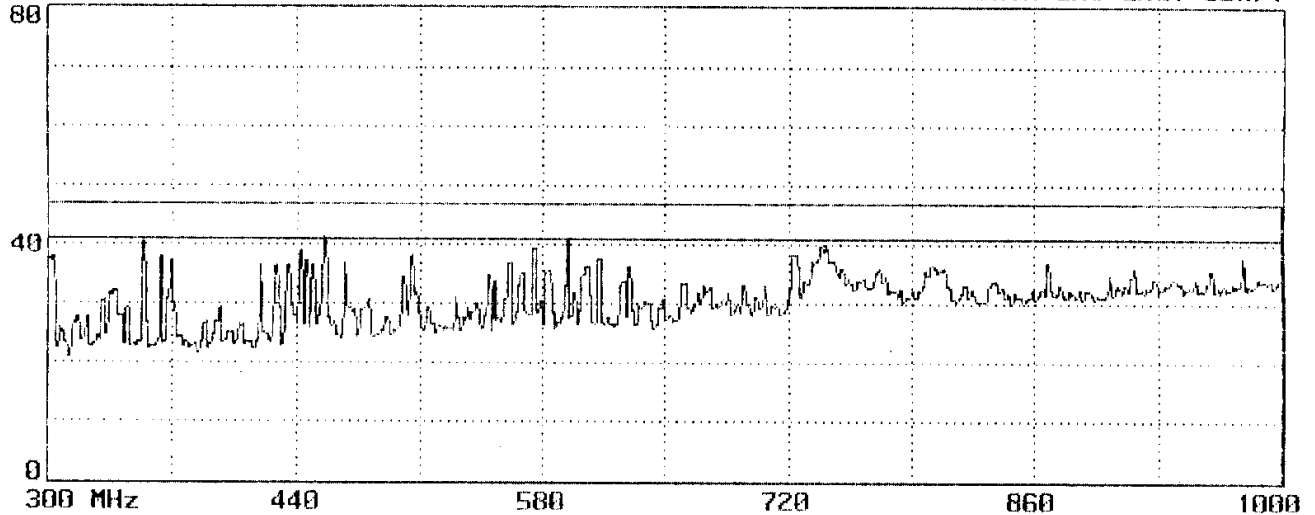


Limit : CISPR CLASS-B 3m
 EUT : 19" Color Monitor M/N:9G1rs
 Margin: 6dB Standard: 0
 Memo : 69KHz(1024X768;85Hz)

Probe: UHALP 9108-A 0139 HORIZONTAL
 Power: 120V/60Hz
 Trace: 320, 0, 0, 0, 0

Page#: 321 SP File#: AOC.EI
 dB μ V/m ANECHOIC CHAMBER

Date: 09-14-1999 Time: 20:01:14
 TAIWAN TOKIN EMC ENG. CORP.

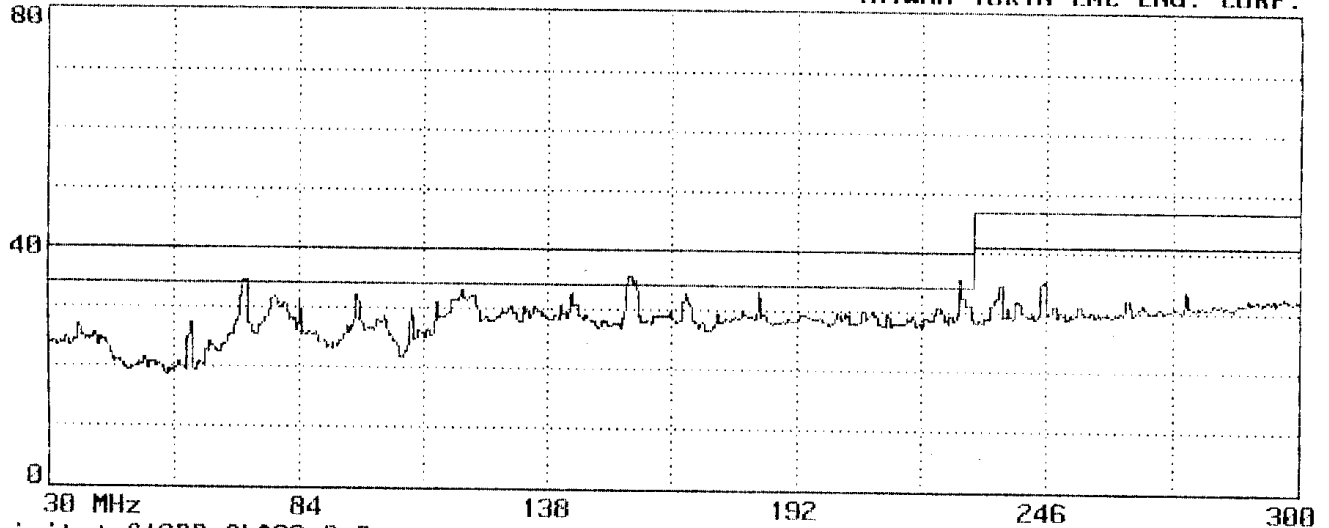


Limit : CISPR CLASS-B 3m
 EUT : 19" Color Monitor M/N:9G1rs
 Margin: 6dB Standard: 0
 Memo : 69KHz(1024X768;85Hz)

Probe: UHALP 9108-A 0139 VERTICAL
 Power: 120V/60Hz
 Trace: 321, 0, 0, 0, 0

Page#: 310 SP File#: AOC.EI
 dB μ V/m ANECHOIC CHAMBER

Date: 09-14-1999 Time: 19:05:43
 TAIWAN TOKIN EMC ENG. CORP.

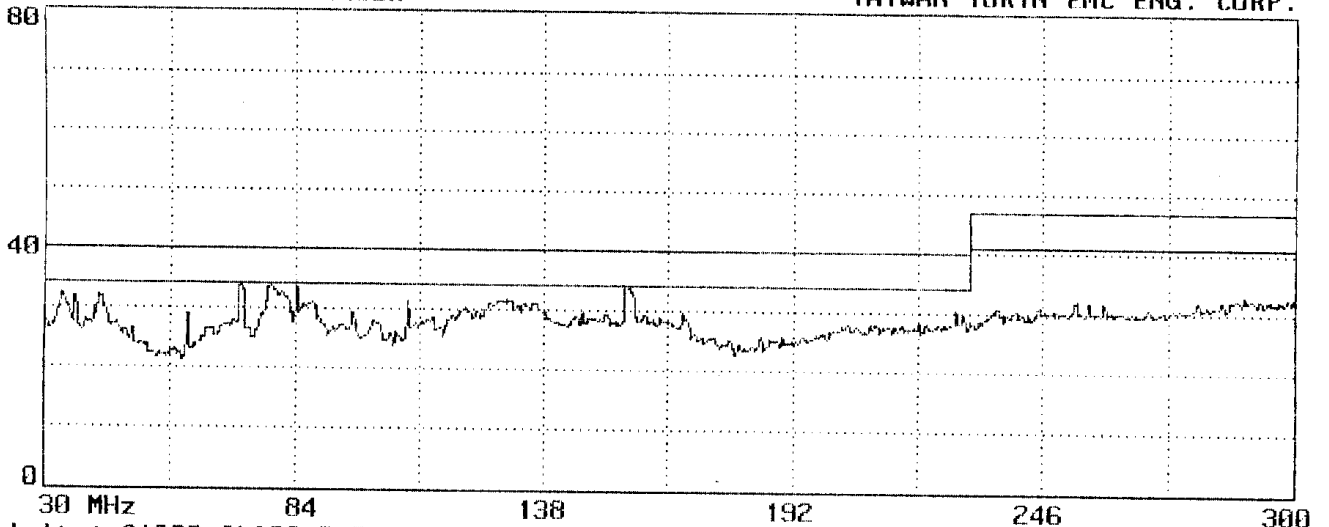


Limit : CISPR CLASS-B 3m
 EUT : 19" Color Monitor M/N:9G1rs
 Margin: 6dB Standard: 0
 Memo : 94KHz(1600X1200;75Hz)

Probe: BBA9106B(1209)A/C HORIZONTAL
 Power: 120V/60Hz
 Trace: 310, 0, 0, 0, 0

Page#: 311 SP File#: AOC.EI
 dB μ V/m ANECHOIC CHAMBER

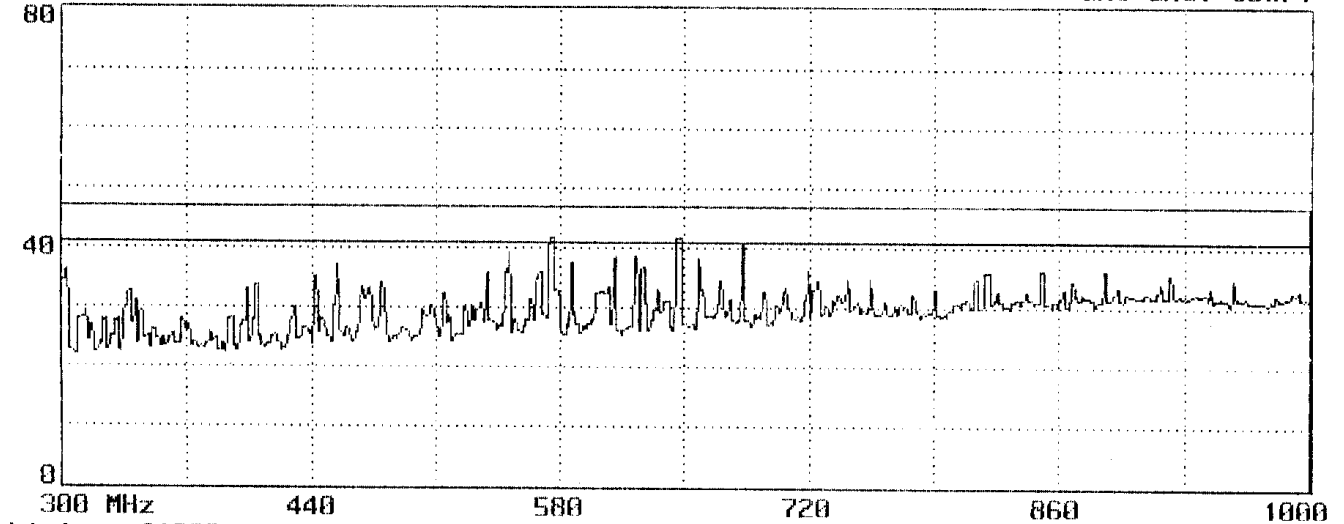
Date: 09-14-1999 Time: 19:08:06
 TAIWAN TOKIN EMC ENG. CORP.



Limit : CISPR CLASS-B 3m
 EUT : 19" Color Monitor M/N:9G1rs
 Margin: 6dB Standard: 0
 Memo : 94KHz(1600X1200;75Hz)

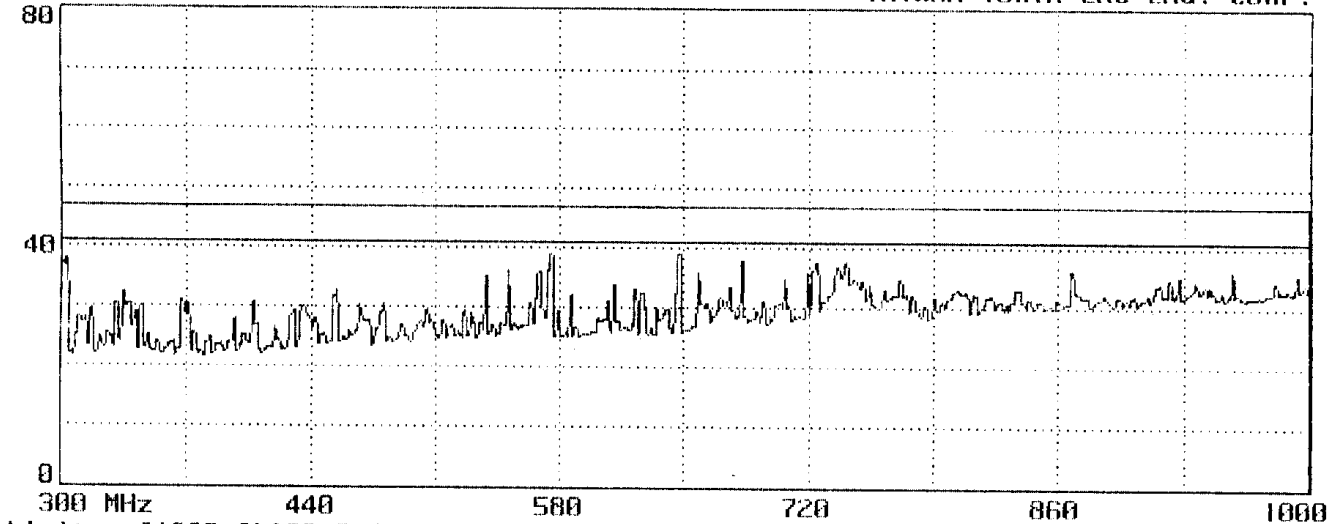
Probe: BBA9106B(1209)A/C VERTICAL
 Power: 120V/60Hz
 Trace: 311, 0, 0, 0, 0

Page#: 312 SP File#: AOC.EI Date: 09-14-1999 Time: 19:12:08
 dBµV/m ANECHOIC CHAMBER TAIWAN TOKIN EMC ENG. CORP.



Limit : CISPR CLASS-B 3m Probe: UHALP 9108-A 0139 HORIZONTAL
 EUT : 19" Color Monitor M/N:9G1rs Power: 120V/60Hz
 Margin: 6dB Standard: 0 Trace: 312, 0, 0, 0, 0
 Memo : 94KHz(1600X1200;75Hz)

Page#: 313 SP File#: AOC.EI Date: 09-14-1999 Time: 19:13:43
 dBµV/m ANECHOIC CHAMBER TAIWAN TOKIN EMC ENG. CORP.



Limit : CISPR CLASS-B 3m Probe: UHALP 9108-A 0139 VERTICAL
 EUT : 19" Color Monitor M/N:9G1rs Power: 120V/60Hz
 Margin: 6dB Standard: 0 Trace: 313, 0, 0, 0, 0
 Memo : 94KHz(1600X1200;75Hz)