

APPLICATION FOR CERTIFICATION
Class II Permissive Change
On Behalf of
Top Victory Electronics (Taiwan) Co., Ltd.
15" LCD Monitor
Model : D5063**
FCC ID : ARSLM562H

Prepared for : Top Victory Electronics (Taiwan) Co., Ltd.
18F, 738 Chung-Cheng Rd., Chung-Ho 235,
Taipei Hsien, Taiwan, R.O.C.

Prepared By : Taiwan Tokin EMC Eng. Corp.
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File Number : ATM-G91015R1 (G91015)
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Date of Test : May 23 ~ Jun. 03, 2002
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TEST REPORT CERTIFICATION

(Class II Permissive Change)

Applicant : Top Victory Electronics (Taiwan) Co., Ltd.
 Manufacturer #1 : Top Victory Electronics (Fujian) Co., Ltd.
 Manufacturer #2 : Beijing Orient Top Victory Electronics Co., Ltd.
 FCC ID : ARSLM562H
 EUT Description : 15" LCD Monitor
 (A) MODEL NO. : D5063**
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : DC 12V, 2.5A
 (Test Voltage: AC 120V/60Hz)

Measurement Procedure Used:

FCC RULES AND CISPR 22 (DOCKET NO. 92-152, SEP. 1993) AND
 FCC / ANSI C63.4-1992
 (FCC CFR 47, Part 15 Subpart B/2001 and CISPR 22/1997 +A1/2000)

(Note: These results and deemed satisfactory evidence of compliance with ICES-003 of the Canadian Interference-Causing Equipment Regulations.)

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 : May 23 ~ Jun. 03, 2002

Prepared by : Monica Chang June 05, 2002
 (Monica Chang/Officer)

Test Engineer: Allen Wang Jun. 05, 2002
 (Allen Wang/Deputy Manager)

Approve & Authorized Signer: Jackie Deng 6/6/02
 (Jackie Deng/Assistant General Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description : 15" LCD Monitor

Model Number : D5063**
The symbols “**” can be any alphanumeric character or blank for sale area and appearance type used.

Add Model Number: D5063M, D5063A.

The model no. D5063M is selected in the test and included in this report.

Item	D5063M	D5063A
Audio	Provided	Not Provided
Pedestal (Column & Base)	Type 1 (Tilt, Lift and Rotation)	Type 2 (Tilt Only)

FCC ID : ARSLM562H

Brand : HP

Applicant : Top Victory Electronics (Taiwan) Co., Ltd.
18F, 738 Chung-Cheng Rd., Chung-Ho 235,
Taipei Hsien, Taiwan, R.O.C.

Manufacturer #1 : Top Victory Electronics (Fujian) Co., Ltd.
Yuan Hong Rd., Shang-Lu Fuqing City,
Fujian, China.

Manufacturer #2 : Beijing Orient Top Victory Electronics Co., Ltd.
No. 10, Jiu Xian Qiao Rd., Chao Yang District,
Beijing, China

LCD Panel #1 : Acer Display Technology, Inc.
M/N L150X3M

LCD Panel #2 : HannStar Display Corporation
M/N HSD150MX41

Data Cable (D-Sub) : Shielded, Detachable, 1.8m
Bonded two ferrite cores

Data Cable (DVI)	:	Shielded, Detachable, 1.8m Bonded two ferrite cores
Audio Cable *2	:	Non-Shielded, Detachable, 1.2m
Power Cord for Audio Base (Optical)	:	Shielded, Undetachable, 0.2m Bonded a ferrite core
AC Adapter # 1	:	Delta, M/N ADP-40TB I/P: AC 100-240V~ 1.2A, 50-60Hz O/P: DC 12V, 3.33A Cord: Shielded, Undetachable, 1.8m Bonded a ferrite core
AC Adapter # 2	:	Delta, M/N ADP-50XB I/P: AC 100-240V~ 2.0A, 50-60Hz O/P: DC 12V-4.16A Cord: Shielded, Undetachable, 1.8m Bonded a ferrite core
AC Adapter # 3	:	LI Shin (LSE), M/N LSE9901B1250 (40W) BSMI ID No. 4882A180 I/P: AC 100-240V~ 50/60Hz, 1.5A O/P: DC 12V, 4.16A 50W MAX Cord: Non-Shielded, Undetachable, 1.8m Bonded a ferrite core
AC Adapter # 4	:	LI Shin (LSE), M/N LSE9901B1250 (50W) BSMI ID No. 4882A180 I/P: AC 100-240V~ 50/60Hz, 1.5A (1.5A) O/P: DC 12V, 4.16A MAX (4.16A) Cord: Non-Shielded, Undetachable, 1.8m Bonded a ferrite core
AC Power Cord	:	Non-Shielded, Detachable, 1.5m
Date of Receipt of Sample	:	May 21, 2002
Date of Test	:	May 23 ~ Jun. 03, 2002

Remark :

This EUT is a modified version of original FCC ID ARSLM562H.
The difference is to add a LCD Panel (HannStar, M/N HSD150MX41).

1.2. Tested Supporting System Details

1.2.1. PERSONAL COMPUTER

System Name	:	P2079T
Product Name	:	VECTRA VL800
Serial Number	:	US10708788
FCC ID	:	By DoC
Manufacturer	:	HP
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.2. KEYBOARD

Model Number	:	SK-2502C
Serial Number	:	M020235979
FCC ID	:	By DoC
BSMI ID	:	3872F107
Manufacturer	:	Silitek (Brand: HP)
Data Cable	:	Non-Shielded, Undetachable, 1.8m

1.2.3. PRINTER

Model Number	:	KX-P2135
Serial Number	:	8DMCNC02116
Manufacturer	:	Panasonic
Data Cable	:	Non-Shielded, Detachable, 1.8m
Power Cord	:	Non-Shielded, Undetachable, 1.8m

1.2.4. 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

1.2.5. 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

1.2.6. MOUSE (PS2)

Model Number : M-S48a
 Serial Number : LZE20501511
 FCC ID : JNZ201213
 BSMI ID : 4882A001
 Manufacturer : Logitech (Brand: HP)
 Data Cable : Non-Shielded, Undetachable, 1.8m

1.2.7. USB MOUSE #1

Model Number : CREUBB
 Serial Number : N/A
 FCC ID : NHM-CREUBE
 BSMI ID : 3872F083
 Manufacturer : CRE Technology Co., Ltd.
 Data Cable : Shielded, Undetachable, 1.8m

1.2.8. USB MOUSE #2

Model Number : CREUBB
 Serial Number : N/A
 FCC ID : NHM-CREUBE
 BSMI ID : 3872F083
 Manufacturer : CRE Technology Co., Ltd.
 Data Cable : Shielded, Undetachable, 1.8m

1.2.9. MICROPHONE (TO EUT)

Model Number : HD-303
 Serial Number : N/A
 Manufacturer : Multimedia Microphone System
 Data Cable : Non-Shielded, Undetachable, 2.2m

1.2.10. WALKMAN

Model Number : RQ-P35LT-K
 Serial Number : HA08562
 Manufacturer : Panasonic
 Data Cable : Non-Shielded, Detachable, 1.8m

1.2.11. EARPHONE (TO EUT)

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

1.3. Description of Test Facility

Site Description (No. 7 Open Site) : Dec. 02, 1999 File on
Federal Communication Commission
Registration Number: 96132

Site Description (Anechoic Chamber) : May 16, 2000 Re-file on
Federal Communication Commission
Registration Number: 90993

Name of Firm : Taiwan Tokin EMC Eng. Corp.

Site Location #1 : No. 53-11, Tin-Fu Tsun, Lin-Kou,
Taipei Hsien, Taiwan, R.O.C.

Site Location #2 : No. 67-4, Tin-Fu Tsun, Lin-Kou,
Taipei Hsien, Taiwan, R.O.C.

NVLAP Lab Code : 200077-0

DAR- Registration No. : DAT-P-092/99-00e

1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150KHz~30MHz	±2.66dB
Radiation Test (Distance: 10m)	30MHz~300MHz	+4.5dB / -4.5dB
	300MHz~1000MHz	+3.88dB / -3.84dB
Radiation Test (Distance: 3m)	30MHz~300MHz	+4.26dB / -4.22dB
	300MHz~1000MHz	+5.28dB / -4.0dB

Remark : Uncertainty = $K_{uc}(y)$

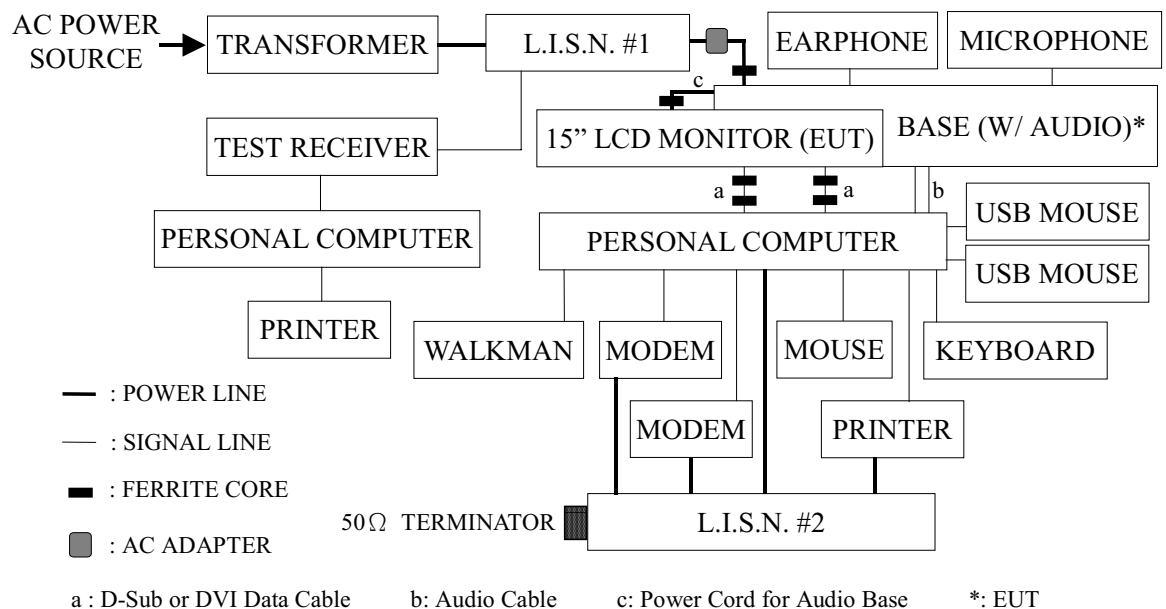
2. POWERLINE CONDUCTED TEST

2.1. Test Equipment

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

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	844591/015	Feb. 27, 02'	1 Year
2.	L.I.S.N. #1	Kyoritsu	KNW-407	8-1430-5	Nov. 12, 01'	1 Year
3.	L.I.S.N. #2	Kyoritsu	KNW-407	8-1430-6	Nov. 12, 01'	1 Year

2.2. Block Diagram of Test Setup



2.3. Powerline Conducted 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	50 dB

2.4. EUT's Configuration during Compliance Measurement

The following equipment 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. 15" LCD Monitor (EUT)

Model Number	: D5063M
Serial Number	: N/A
Manufacturer #1	: Top Victory Electronics (Fujian) Co., Ltd.
Manufacturer #2	: Beijing Orient Top Victory Electronics Co., Ltd.
LCD Panel	: HannStar Display Corporation M/N HSD150MX41
Data Cable (D-Sub)	: Shielded, Detachable, 1.8m Bonded two ferrite cores
Data Cable (DVI)	: Shielded, Detachable, 1.8m Bonded two ferrite cores
Audio Cable *2	: Non-Shielded, Detachable, 1.2m
Power Cord for Audio Base (Optical)	: Shielded, Undetachable, 0.2m Bonded a ferrite core
AC Adapter	: Delta, M/N ADP-50XB I/P: AC 100-240V~ 2.0A, 50-60Hz O/P: DC 12V-4.16A Cord: Shielded, Undetachable, 1.8m Bonded a ferrite core
AC Power Cord	: Non-Shielded, Detachable, 1.5m

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 equipment.
- 2.5.3. Personal Computer read data from disk.
- 2.5.4. Personal Computer running the self-test program "WINRFI" 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. The CD-ROM played a Music CD-Disk and sent sound to EUT and earphone.
- 2.5.6. The other peripheral devices were driven and operated in turn during all testing.
- 2.5.7. Repeat the above procedures from 2.5.3 to 2.5.6.

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 equipment 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 ESHS10 was set at 10KHz.

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

The test voltage was AC 120V/60Hz via AC Adapter of EUT.

2.7. Line Conducted RF Voltage Measurement Results

PASSED. The following test modes were done during conducted measurement and all the test results are attached in the next pages. All emissions not reported below are too low against the prescribed limits.

(Test Date: May 23, 2002 Temperature: 25°C Humidity: 64 %
 Test Date: Jun. 03, 2002 Temperature: 28°C Humidity: 44 %)

Mode	Cable	Frequency Resolution	Panel Angle	Reference Data #
1.	D-Sub	640*480/60Hz, 31kHz	0°	# 160 (161, 162) ; # 157 (158, 159).
2.	D-Sub	800*600/75Hz, 48kHz	0°	# 151 (152, 153) ; # 154 (155, 156).
3.	D-Sub	1024*768/75Hz, 60kHz	0°	# 148 (149, 150) ; # 145 (146, 147).
4.	D-Sub	1024*768/75Hz, 60kHz	90°	# 187 (188, 189) ; # 190 (191, 192).
5.	DVI	640*480/60Hz, 31kHz	0°	# 163 (164, 165) ; # 166 (167, 168).
6.	DVI	800*600/75Hz, 48kHz	0°	# 172 (173, 174) ; # 169 (170, 171).
7.	DVI	1024*768/75Hz, 60kHz	0°	# 175 (176, 177) ; # 178 (179, 180).

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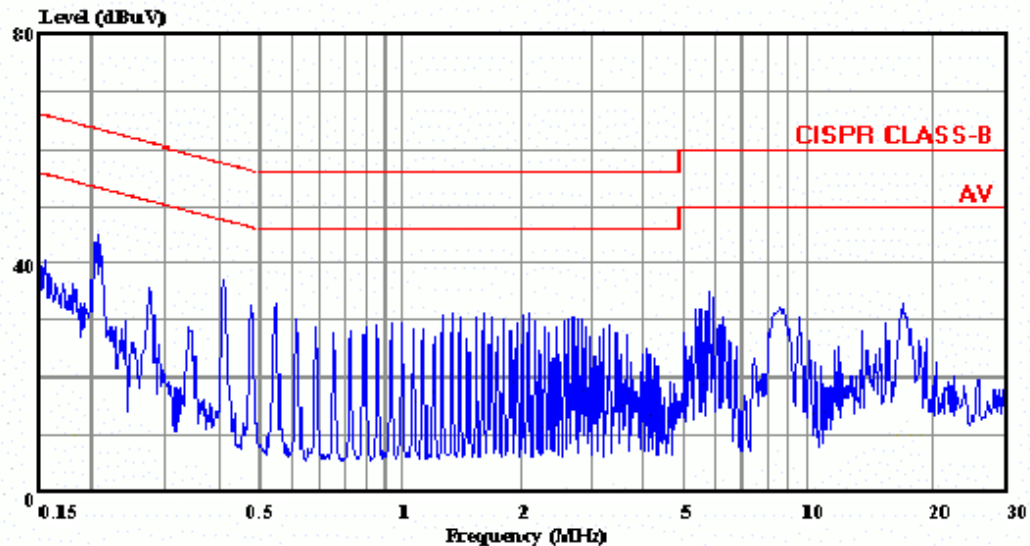
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Email:ttemc@ttemc.com.tw

Data#: 160

File#: TOP VICTORY.EMI

Date: 2002-05-23 Time: 18:01:45



Site : No.4 Shielded room
Condition: CISPR CLASS-B KMW-407 NEUTRAL
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 640*480/60Hz 31KHz(D-SUB)

Data#: 161

File#: D:\TOP VICTORY.EMI

Date: 2002-05-23

Time: 18:02:38

Site : No.4 Shielded room
Condition : CISPR CLASS-B KMW-407 NEUTRAL
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 640*480/60Hz 31KHz(D-SUB)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.205	45.12	-18.28	63.40	44.72	0.20	0.20	QP
2	0.274	34.61	-26.38	60.99	34.26	0.15	0.20	QP
3	0.411	36.59	-21.05	57.64	36.29	0.10	0.20	QP
4	0.617	30.01	-25.99	56.00	29.71	0.10	0.20	QP
5	1.373	30.21	-25.79	56.00	29.71	0.10	0.40	QP
6	6.046	33.21	-26.79	60.00	32.47	0.14	0.60	QP

Data#: 162 File#: D:\TOP VICTORY.EMI

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.205	36.31	-17.09	53.40	35.91	0.20	0.20	Average
2	0.274	29.34	-21.65	50.99	28.99	0.15	0.20	Average
3	0.411	34.64	-13.00	47.64	34.34	0.10	0.20	Average
4	0.617	27.36	-18.64	46.00	27.06	0.10	0.20	Average
5	1.373	28.49	-17.51	46.00	27.99	0.10	0.40	Average
6	6.046	30.95	-19.05	50.00	30.21	0.14	0.60	Average

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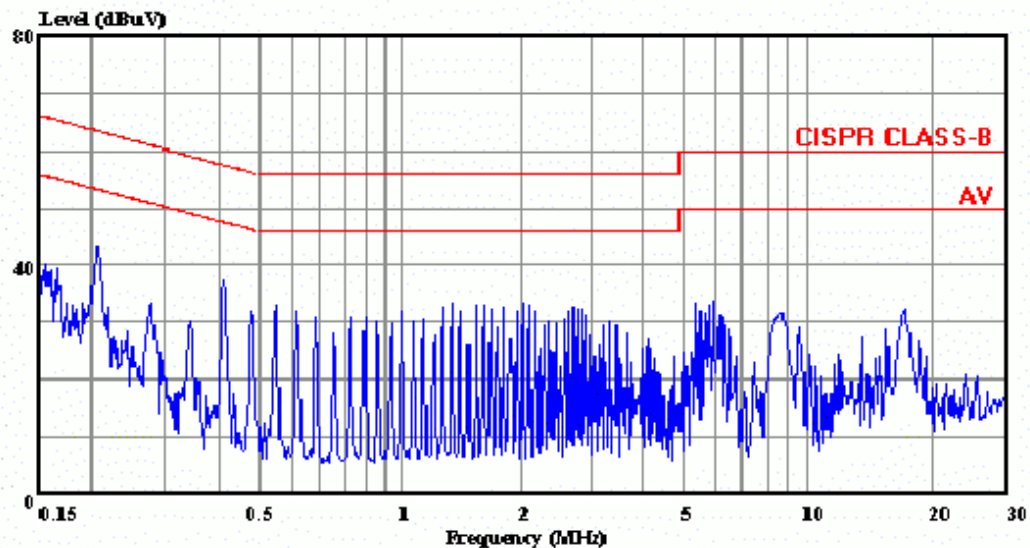
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Email:ttemc@ttemc.com.tw

Data#: 157

File#: TOP VICTORY.EMI

Date: 2002-05-23 Time: 17:59:31



Site : No.4 Shielded room
Condition: CISPR CLASS-B KNW-407 LINE
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 640*480/60Hz 31KHz(D-SUB)

Data#: 158

File#: D:\TOP VICTORY.EMI

Date: 2002-05-23

Time: 18:00:26

Site : No.4 Shielded room
Condition : CISPR CLASS-B KNW-407 LINE
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 640*480/60Hz 31KHz(D-SUB)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.204	42.63	-20.80	63.43	42.23	0.20	0.20	QP
2	0.275	32.89	-28.08	60.97	32.54	0.15	0.20	QP
3	0.410	37.01	-20.63	57.64	36.71	0.10	0.20	QP
4	0.618	31.61	-24.39	56.00	31.31	0.10	0.20	QP
5	1.375	32.11	-23.89	56.00	31.61	0.10	0.40	QP
6	6.048	33.25	-26.75	60.00	32.55	0.10	0.60	QP

Data#: 159 File#: D:\TOP VICTORY.EMI

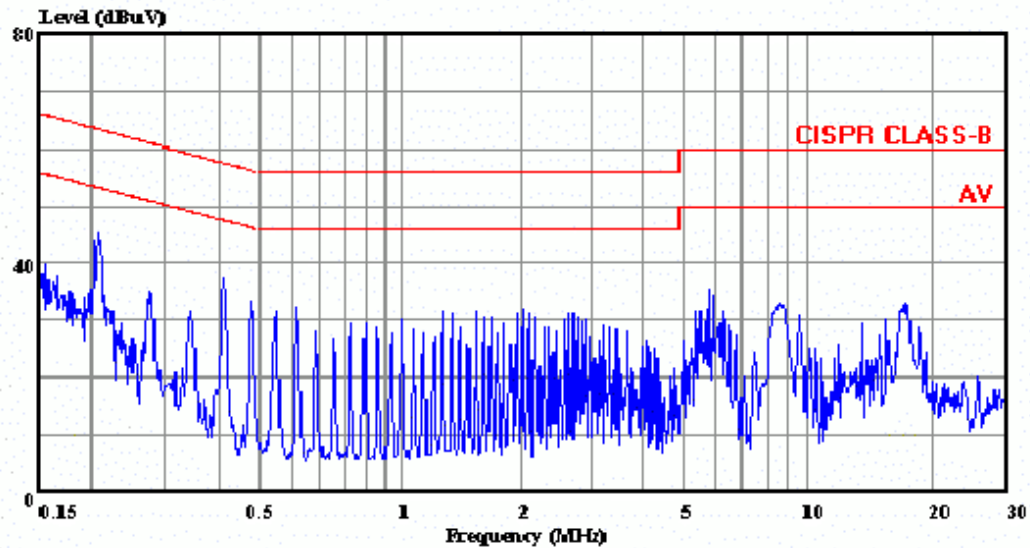
	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.204	36.41	-17.02	53.43	36.01	0.20	0.20	Average
2	0.275	28.59	-22.38	50.97	28.24	0.15	0.20	Average
3	0.410	34.60	-13.04	47.64	34.30	0.10	0.20	Average
4	0.618	29.49	-16.51	46.00	29.19	0.10	0.20	Average
5	1.375	30.84	-15.16	46.00	30.34	0.10	0.40	Average
6	6.048	31.31	-18.69	50.00	30.61	0.10	0.60	Average

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Data#: 151 File#: TOP VICTORY.EMI Date: 2002-05-23 Time: 17:53:34



Site : No.4 Shielded room
Condition: CISPR CLASS-B KNW-407 NEUTRAL
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 800*600/75Hz 48KHz(D-SUB)

Data#: 152 File#: D:\TOP VICTORY.EMI Date: 2002-05-23 Time: 17:54:23

Site : No.4 Shielded room
Condition : CISPR CLASS-B KNW-407 NEUTRAL
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 800*600/75Hz 48KHz(D-SUB)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.206	45.20	-18.18	63.38	44.80	0.20	0.20	QP
2	0.275	34.61	-26.36	60.97	34.26	0.15	0.20	QP
3	0.411	36.14	-21.49	57.63	35.84	0.10	0.20	QP
4	0.616	30.52	-25.48	56.00	30.22	0.10	0.20	QP
5	1.375	30.76	-25.24	56.00	30.26	0.10	0.40	QP
6	6.046	33.58	-26.42	60.00	32.84	0.14	0.60	QP

Data#: 153 File#: D:\TOP VICTORY.EMI

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.206	36.23	-17.15	53.38	35.83	0.20	0.20	Average
2	0.275	29.66	-21.31	50.97	29.31	0.15	0.20	Average
3	0.411	33.91	-13.72	47.63	33.61	0.10	0.20	Average
4	0.616	28.12	-17.88	46.00	27.82	0.10	0.20	Average
5	1.375	29.51	-16.49	46.00	29.01	0.10	0.40	Average
6	6.046	31.57	-18.43	50.00	30.83	0.14	0.60	Average

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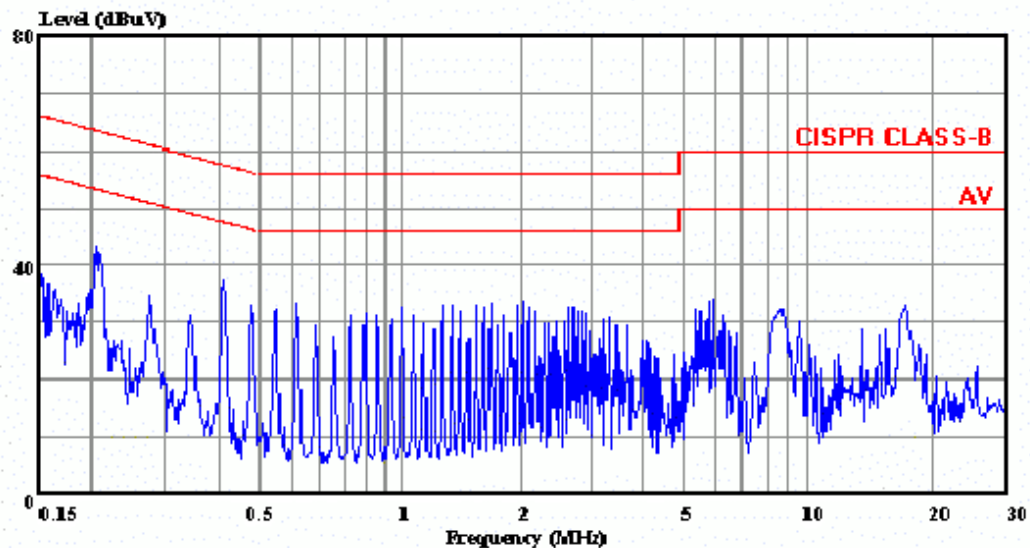
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Data#: 154

File#: TOP VICTORY.EMI

Date: 2002-05-23 Time: 17:56:03



Site : No.4 Shielded room
Condition: CISPR CLASS-B KNW-407 LINE
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 800*600/75Hz 48KHz(D-SUB)

Data#: 155

File#: D:\TOP VICTORY.EMI

Date: 2002-05-23

Time: 17:56:46

Site : No.4 Shielded room
Condition : CISPR CLASS-B KNW-407 LINE
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 800*600/75Hz 48KHz(D-SUB)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.205	42.85	-20.55	63.40	42.45	0.20	0.20	QP
2	0.274	32.41	-28.59	61.00	32.06	0.15	0.20	QP
3	0.412	36.63	-20.98	57.61	36.33	0.10	0.20	QP
4	0.619	33.14	-22.86	56.00	32.84	0.10	0.20	QP
5	1.372	32.29	-23.71	56.00	31.79	0.10	0.40	QP
6	6.049	32.91	-27.09	60.00	32.21	0.10	0.60	QP

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.205	36.55	-16.85	53.40	36.15	0.20	0.20	Average
2	0.274	29.03	-21.97	51.00	28.68	0.15	0.20	Average
3	0.412	33.75	-13.86	47.61	33.45	0.10	0.20	Average
4	0.619	31.12	-14.88	46.00	30.82	0.10	0.20	Average
5	1.372	31.05	-14.95	46.00	30.55	0.10	0.40	Average
6	6.049	31.33	-18.67	50.00	30.63	0.10	0.60	Average

TOKIN

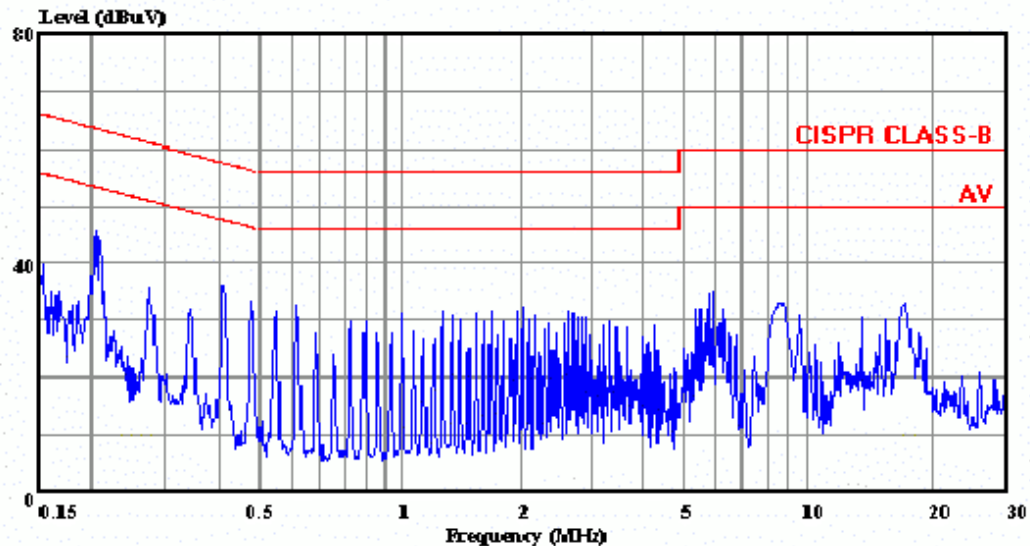
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Email:ttemc@ttemc.com.tw

Data#: 148

File#: TOP VICTORY.EMI

Date: 2002-05-23 Time: 17:50:52



Site : No.4 Shielded room
Condition: CISPR CLASS-B KNW-407 NEUTRAL
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 1024*768/75Hz 60KHz(D-SUB)

Data#: 149

File#: D:\TOP VICTORY.EMI

Date: 2002-05-23

Time: 17:51:36

Site : No.4 Shielded room
Condition : CISPR CLASS-B KNW-407 NEUTRAL
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 1024*768/75Hz 60KHz(D-SUB)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.205	45.24	-18.15	63.39	44.84	0.20	0.20	QP
2	0.273	34.36	-26.67	61.03	34.00	0.16	0.20	QP
3	0.413	35.16	-22.42	57.58	34.86	0.10	0.20	QP
4	0.618	32.55	-23.45	56.00	32.25	0.10	0.20	QP
5	1.373	31.22	-24.78	56.00	30.72	0.10	0.40	QP
6	6.050	33.56	-26.44	60.00	32.82	0.14	0.60	QP

Data#: 150

File#: D:\TOP VICTORY.EMI

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.205	36.26	-17.13	53.39	35.86	0.20	0.20	Average
2	0.273	29.60	-21.43	51.03	29.24	0.16	0.20	Average
3	0.413	32.78	-14.80	47.58	32.48	0.10	0.20	Average
4	0.618	30.37	-15.63	46.00	30.07	0.10	0.20	Average
5	1.373	30.02	-15.98	46.00	29.52	0.10	0.40	Average
6	6.050	31.65	-18.35	50.00	30.91	0.14	0.60	Average

TOKIN

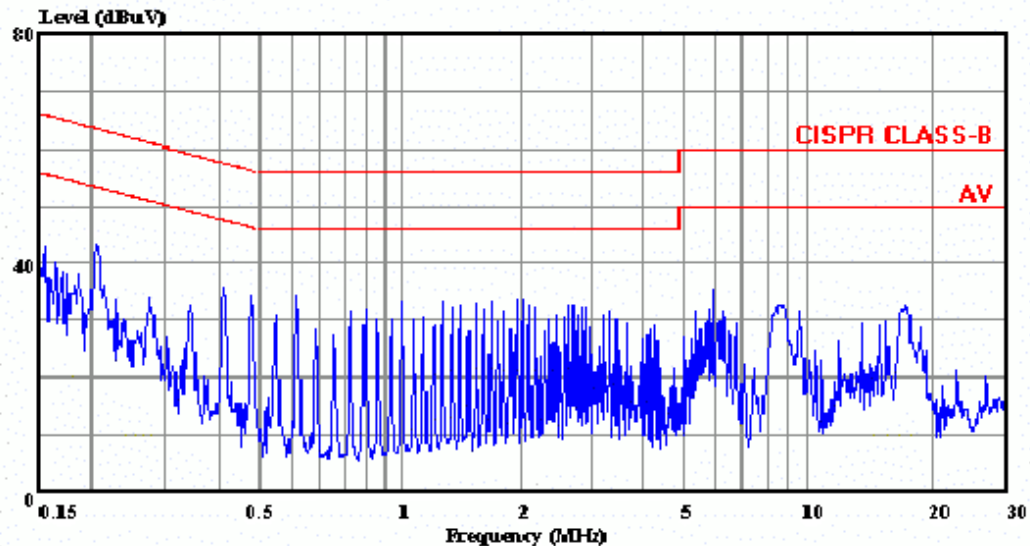
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Data#: 145

File#: TOP VICTORY.EMI

Date: 2002-05-23 Time: 17:47:12



Site : No.4 Shielded room
Condition: CISPR CLASS-B KNW-407 LINE
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 1024*768/75Hz 60KHz(D-SUB)

Data#: 146

File#: D:\TOP VICTORY.EMI

Date: 2002-05-23 Time: 17:48:38

Site : No.4 Shielded room
Condition : CISPR CLASS-B KNW-407 LINE
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 1024*768/75Hz 60KHz(D-SUB)

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.207	42.31	-21.02	63.33	41.91	0.20	0.20	QP
2	0.274	32.45	-28.55	61.00	32.10	0.15	0.20	QP
3	0.411	36.04	-21.58	57.62	35.74	0.10	0.20	QP
4	0.617	34.00	-22.00	56.00	33.70	0.10	0.20	QP
5	1.373	32.99	-23.01	56.00	32.49	0.10	0.40	QP
6	6.047	33.80	-26.20	60.00	33.10	0.10	0.60	QP

Data#: 147

File#: D:\TOP VICTORY.EMI

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.207	35.94	-17.39	53.33	35.54	0.20	0.20	Average
2	0.274	29.24	-21.76	51.00	28.89	0.15	0.20	Average
3	0.411	33.05	-14.57	47.62	32.75	0.10	0.20	Average
4	0.617	31.94	-14.06	46.00	31.64	0.10	0.20	Average
5	1.373	31.99	-14.01	46.00	31.49	0.10	0.40	Average
6	6.047	31.80	-18.20	50.00	31.10	0.10	0.60	Average

TOKIN

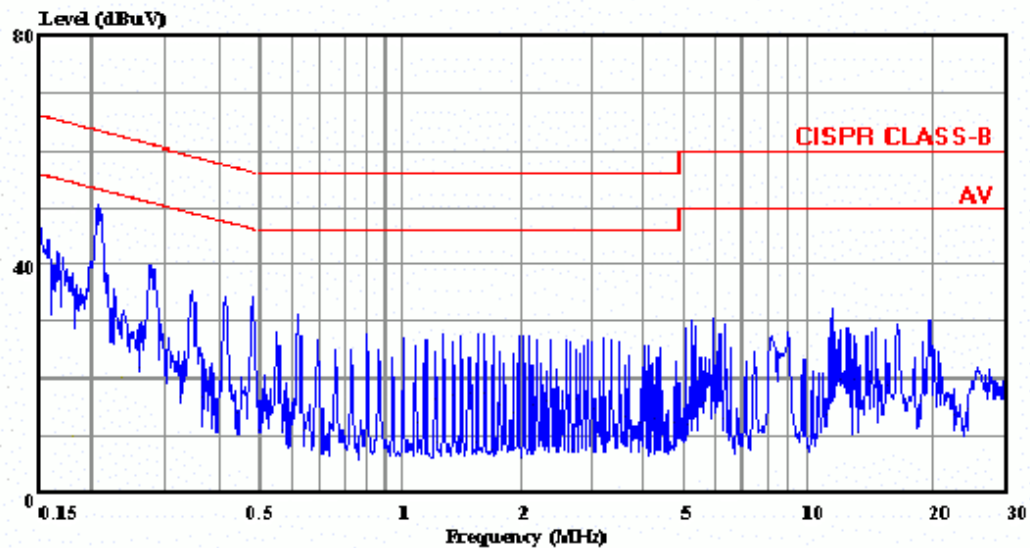
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Data#: 190

File#: TOP VICTORY.EMI

Date: 2002-06-03 Time: 18:20:26



Site : No.4 Shielded room
Condition: CISPR CLASS-B KNW-407 NEUTRAL
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 1024*768/75Hz, 60KHz;D-SUB
: ROTATE

Data#: 191

File#: D:\TOP VICTORY.EMI

Date: 2002-06-03 Time: 18:22:57

Site : No.4 Shielded room
Condition : CISPR CLASS-B KNW-407 NEUTRAL
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 1024*768/75Hz, 60KHz;D-SUB
: ROTATE

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.205	50.57	-12.85	63.42	50.17	0.20	0.20	QP
2	0.278	42.30	-18.58	60.88	41.95	0.15	0.20	QP
3	0.483	33.13	-23.15	56.28	32.83	0.10	0.20	QP
4	1.734	27.10	-28.90	56.00	26.60	0.10	0.40	QP
5	5.408	30.46	-29.54	60.00	29.73	0.13	0.60	QP
6	11.648	31.14	-28.86	60.00	30.24	0.20	0.70	QP

Data#: 192

File#: D:\TOP VICTORY.EMI

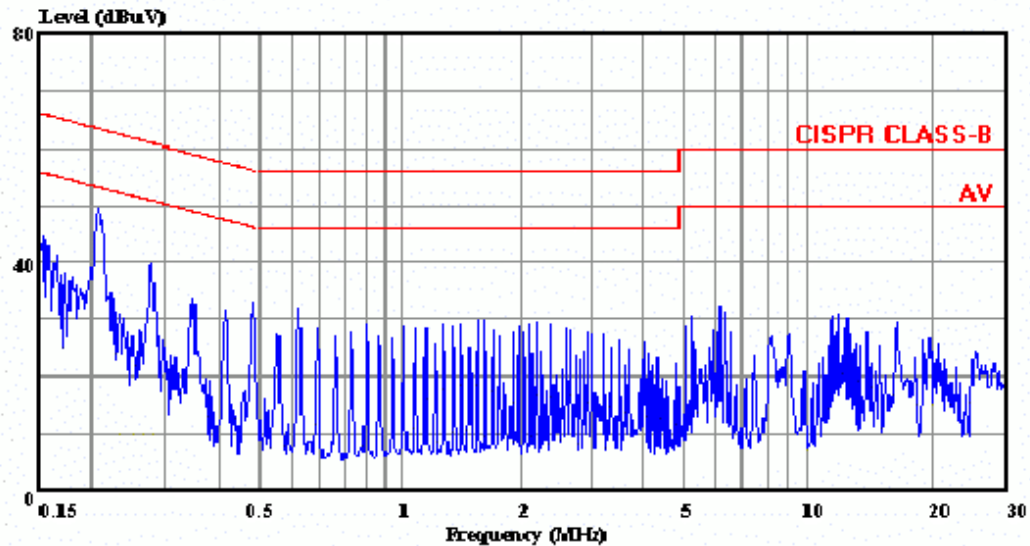
	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.205	38.48	-14.94	53.42	38.08	0.20	0.20	Average
2	0.278	31.96	-18.92	50.88	31.61	0.15	0.20	Average
3	0.483	30.18	-16.10	46.28	29.88	0.10	0.20	Average
4	1.734	24.74	-21.26	46.00	24.24	0.10	0.40	Average
5	5.408	27.72	-22.28	50.00	26.99	0.13	0.60	Average
6	11.648	28.09	-21.91	50.00	27.19	0.20	0.70	Average

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Data#: 187 File#: TOP VICTORY.EMI Date: 2002-06-03 Time: 18:15:36



Site : No.4 Shielded room
Condition: CISPR CLASS-B KNW-407 LINE
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 1024*768/75Hz, 60KHz;D-SUB
: ROTATE

Data#: 188 File#: D:\TOP VICTORY.EMI Date: 2002-06-03 Time: 18:18:46

Site : No.4 Shielded room
Condition : CISPR CLASS-B KNW-407 LINE
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 1024*768/75Hz, 60KHz;D-SUB
: ROTATE

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.207	51.31	-12.01	63.32	50.91	0.20	0.20	QP
2	0.278	40.84	-20.02	60.86	40.49	0.15	0.20	QP
3	0.485	30.28	-25.97	56.25	29.98	0.10	0.20	QP
4	1.735	28.87	-27.13	56.00	28.37	0.10	0.40	QP
5	6.240	32.33	-27.67	60.00	31.63	0.10	0.60	QP
6	12.000	31.18	-28.82	60.00	30.33	0.15	0.70	QP

Data#: 189 File#: D:\TOP VICTORY.EMI

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.207	42.33	-10.99	53.32	41.93	0.20	0.20	Average
2	0.278	33.05	-17.81	50.86	32.70	0.15	0.20	Average
3	0.485	30.46	-15.79	46.25	30.16	0.10	0.20	Average
4	1.735	26.64	-19.36	46.00	26.14	0.10	0.40	Average
5	6.240	30.46	-19.54	50.00	29.76	0.10	0.60	Average
6	12.000	27.40	-22.60	50.00	26.55	0.15	0.70	Average

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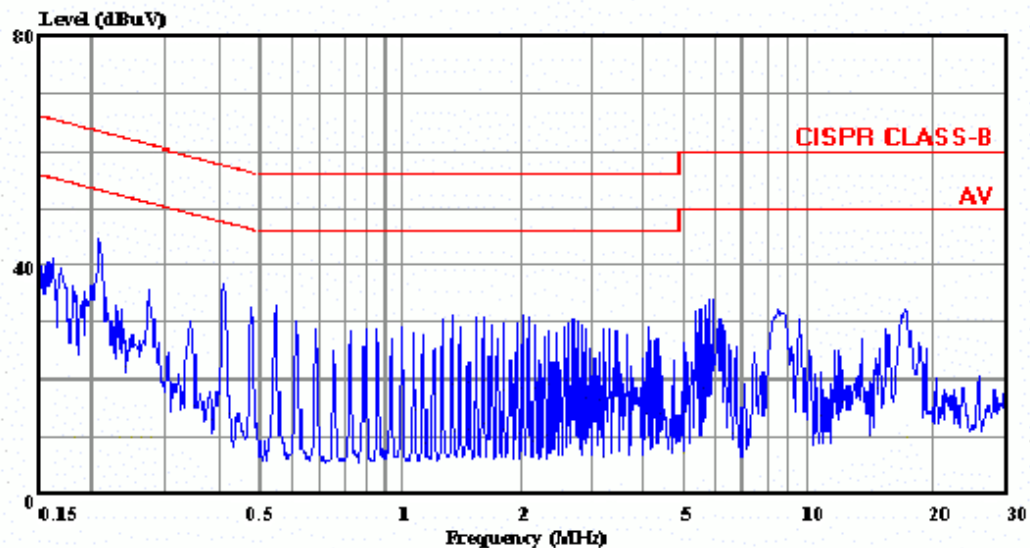
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Data#: 163

File#: TOP VICTORY.EMI

Date: 2002-05-23 Time: 18:04:43



Site : No.4 Shielded room
Condition: CISPR CLASS-B KNW-407 NEUTRAL
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 640*480/60Hz 31KHz(DVI)

Data#: 164

File#: D:\TOP VICTORY.EMI

Date: 2002-05-23

Time: 18:04:58

Site : No.4 Shielded room
Condition : CISPR CLASS-B KNW-407 NEUTRAL
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 640*480/60Hz 31KHz(DVI)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.205	45.08	-18.34	63.42	44.68	0.20	0.20	QP
2	0.275	34.43	-26.54	60.97	34.08	0.15	0.20	QP
3	0.412	36.73	-20.88	57.61	36.43	0.10	0.20	QP
4	0.618	30.01	-25.99	56.00	29.71	0.10	0.20	QP
5	1.375	30.03	-25.97	56.00	29.53	0.10	0.40	QP
6	6.048	33.56	-26.44	60.00	32.82	0.14	0.60	QP

Data#: 165

File#: D:\TOP VICTORY.EMI

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.205	36.38	-17.04	53.42	35.98	0.20	0.20	Average
2	0.275	29.21	-21.76	50.97	28.86	0.15	0.20	Average
3	0.412	34.69	-12.92	47.61	34.39	0.10	0.20	Average
4	0.618	27.28	-18.72	46.00	26.98	0.10	0.20	Average
5	1.375	28.18	-17.82	46.00	27.68	0.10	0.40	Average
6	6.048	31.65	-18.35	50.00	30.91	0.14	0.60	Average

TOKIN

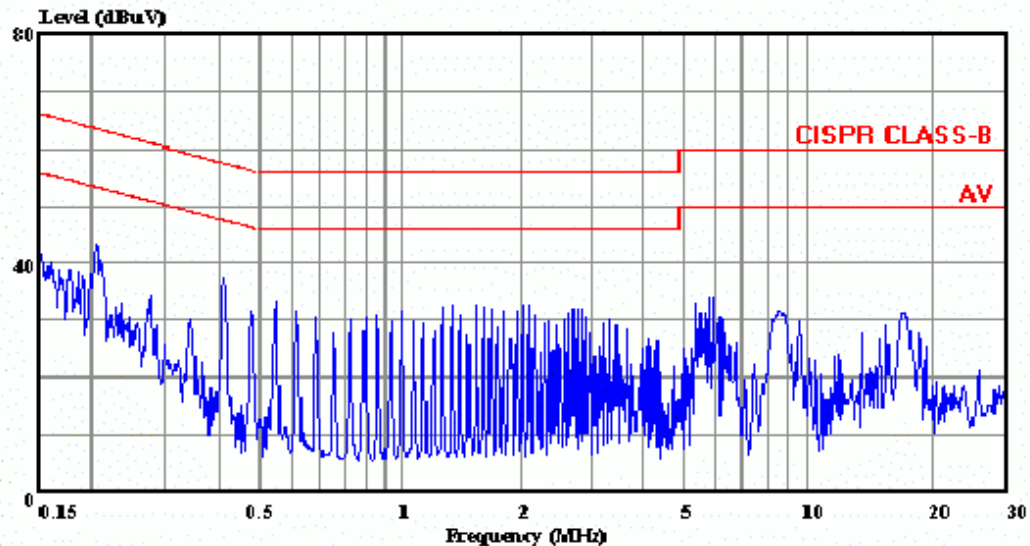
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Data#: 166

File#: TOP VICTORY.EMI

Date: 2002-05-23 Time: 18:06:41



Site : No.4 Shielded room
Condition: CISPR CLASS-B KNW-407 LINE
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 640*480/60Hz 31KHz(DVI)

Data#: 167

File#: D:\TOP VICTORY.EMI

Date: 2002-05-23 Time: 18:07:25

Site : No.4 Shielded room
Condition : CISPR CLASS-B KNW-407 LINE
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 640*480/60Hz 31KHz(DVI)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.206	42.63	-20.73	63.36	42.23	0.20	0.20	QP
2	0.274	32.59	-28.42	61.01	32.24	0.15	0.20	QP
3	0.413	36.73	-20.86	57.59	36.43	0.10	0.20	QP
4	0.617	31.47	-24.53	56.00	31.17	0.10	0.20	QP
5	1.374	32.19	-23.81	56.00	31.69	0.10	0.40	QP
6	6.048	33.29	-26.71	60.00	32.59	0.10	0.60	QP

Data#: 168 File#: D:\TOP VICTORY.EMI

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.206	36.33	-17.03	53.36	35.93	0.20	0.20	Average
2	0.274	28.83	-22.18	51.01	28.48	0.15	0.20	Average
3	0.413	34.31	-13.28	47.59	34.01	0.10	0.20	Average
4	0.617	29.30	-16.70	46.00	29.00	0.10	0.20	Average
5	1.374	30.75	-15.25	46.00	30.25	0.10	0.40	Average
6	6.048	31.36	-18.64	50.00	30.66	0.10	0.60	Average

TOKIN

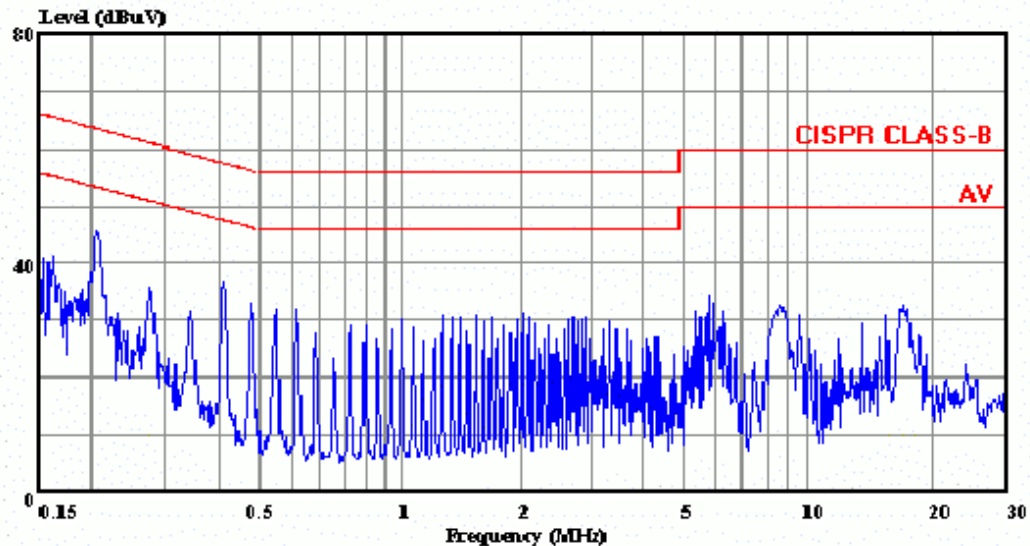
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Data#: 172

File#: TOP VICTORY.EMI

Date: 2002-05-23 Time: 18:11:27



Site : No.4 Shielded room
Condition: CISPR CLASS-B KNW-407 NEUTRAL
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 800*600/75Hz 48KHz(DVI)

Data#: 173

File#: D:\TOP VICTORY.EMI

Date: 2002-05-23 Time: 18:12:11

Site : No.4 Shielded room
Condition : CISPR CLASS-B KNW-407 NEUTRAL
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 800*600/75Hz 48KHz(DVI)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV		dB	dBuV	dB	dB	
1	0.205	45.33	-18.07	63.40	44.93	0.20	0.20	QP
2	0.274	34.83	-26.16	60.99	34.48	0.15	0.20	QP
3	0.412	36.12	-21.49	57.61	35.82	0.10	0.20	QP
4	0.617	32.01	-23.99	56.00	31.71	0.10	0.20	QP
5	1.372	30.15	-25.85	56.00	29.65	0.10	0.40	QP
6	6.049	33.13	-26.87	60.00	32.39	0.14	0.60	QP

Data#: 174 File#: D:\TOP VICTORY.EMI

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV		dB	dBuV	dB	dB	
1	0.205	36.27	-17.13	53.40	35.87	0.20	0.20	Average
2	0.274	29.70	-21.29	50.99	29.35	0.15	0.20	Average
3	0.412	33.85	-13.76	47.61	33.55	0.10	0.20	Average
4	0.617	29.57	-16.43	46.00	29.27	0.10	0.20	Average
5	1.372	28.48	-17.52	46.00	27.98	0.10	0.40	Average
6	6.049	31.64	-18.36	50.00	30.90	0.14	0.60	Average

TOKIN

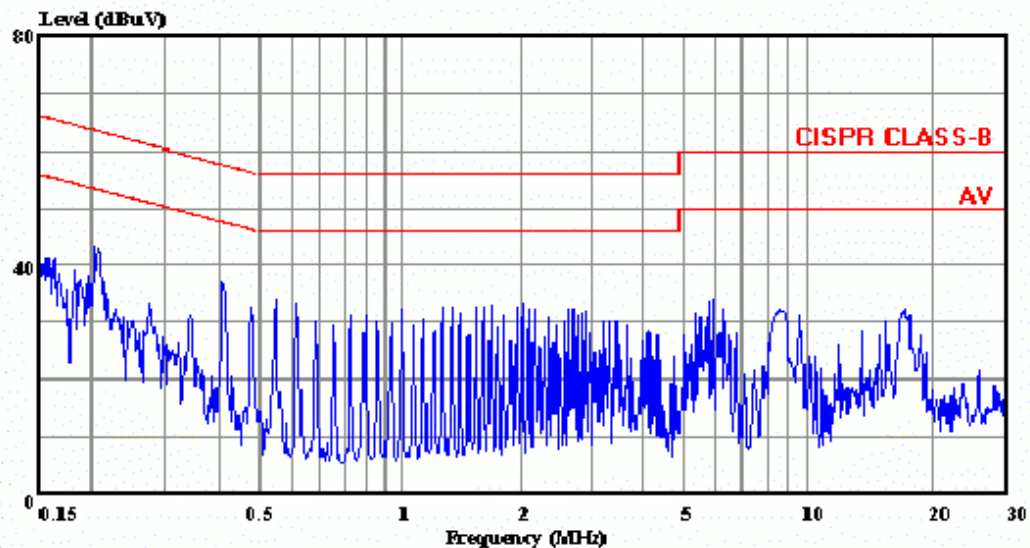
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Data#: 169

File#: TOP VICTORY.EMI

Date: 2002-05-23 Time: 18:09:29



Site : No.4 Shielded room
Condition: CISPR CLASS-B KNW-407 LINE
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 800*600/75Hz 48KHz(DVI)

Data#: 170

File#: D:\TOP VICTORY.EMI

Date: 2002-05-23

Time: 18:10:13

Site : No.4 Shielded room
Condition : CISPR CLASS-B KNW-407 LINE
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 800*600/75Hz 48KHz(DVI)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.206	42.81	-20.57	63.38	42.41	0.20	0.20	QP
2	0.274	32.57	-28.42	60.99	32.22	0.15	0.20	QP
3	0.410	36.02	-21.62	57.64	35.72	0.10	0.20	QP
4	0.617	33.44	-22.56	56.00	33.14	0.10	0.20	QP
5	1.374	32.43	-23.57	56.00	31.93	0.10	0.40	QP
6	6.048	33.19	-26.81	60.00	32.49	0.10	0.60	QP

Data#: 171

File#: D:\TOP VICTORY.EMI

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.206	36.39	-16.99	53.38	35.99	0.20	0.20	Average
2	0.274	29.03	-21.96	50.99	28.68	0.15	0.20	Average
3	0.410	33.14	-14.50	47.64	32.84	0.10	0.20	Average
4	0.617	31.28	-14.72	46.00	30.98	0.10	0.20	Average
5	1.374	31.20	-14.80	46.00	30.70	0.10	0.40	Average
6	6.048	31.86	-18.14	50.00	31.16	0.10	0.60	Average

TOKIN

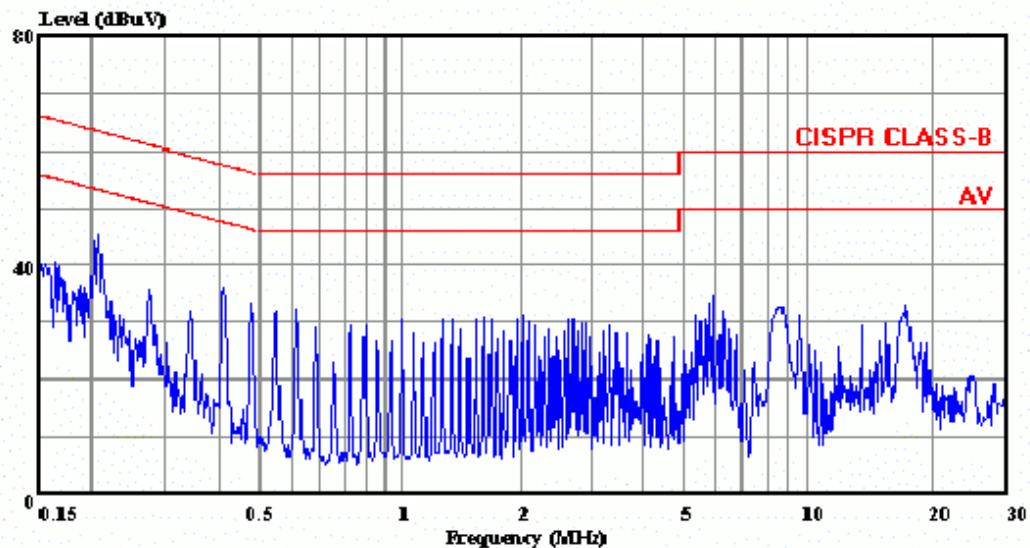
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Data#: 175

File#: TOP VICTORY.EMI

Date: 2002-05-23 Time: 18:13:58



Site : No.4 Shielded room
Condition: CISPR CLASS-B KNW-407 NEUTRAL
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 1024*768/75Hz 60KHz(DVI)

Data#: 176

File#: D:\TOP VICTORY.EMI

Date: 2002-05-23

Time: 18:14:42

Site : No.4 Shielded room
Condition : CISPR CLASS-B KNW-407 NEUTRAL
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 1024*768/75Hz 60KHz(DVI)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.204	44.98	-18.46	63.44	44.58	0.20	0.20	QP
2	0.275	34.61	-26.35	60.96	34.26	0.15	0.20	QP
3	0.412	35.98	-21.63	57.61	35.68	0.10	0.20	QP
4	0.617	32.39	-23.61	56.00	32.09	0.10	0.20	QP
5	1.375	30.37	-25.63	56.00	29.87	0.10	0.40	QP
6	6.047	33.37	-26.63	60.00	32.63	0.14	0.60	QP

Data#: 177

File#: D:\TOP VICTORY.EMI

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.204	35.92	-17.52	53.44	35.52	0.20	0.20	Average
2	0.275	29.55	-21.41	50.96	29.20	0.15	0.20	Average
3	0.412	33.64	-13.97	47.61	33.34	0.10	0.20	Average
4	0.617	29.97	-16.03	46.00	29.67	0.10	0.20	Average
5	1.375	28.89	-17.11	46.00	28.39	0.10	0.40	Average
6	6.047	31.67	-18.33	50.00	30.93	0.14	0.60	Average

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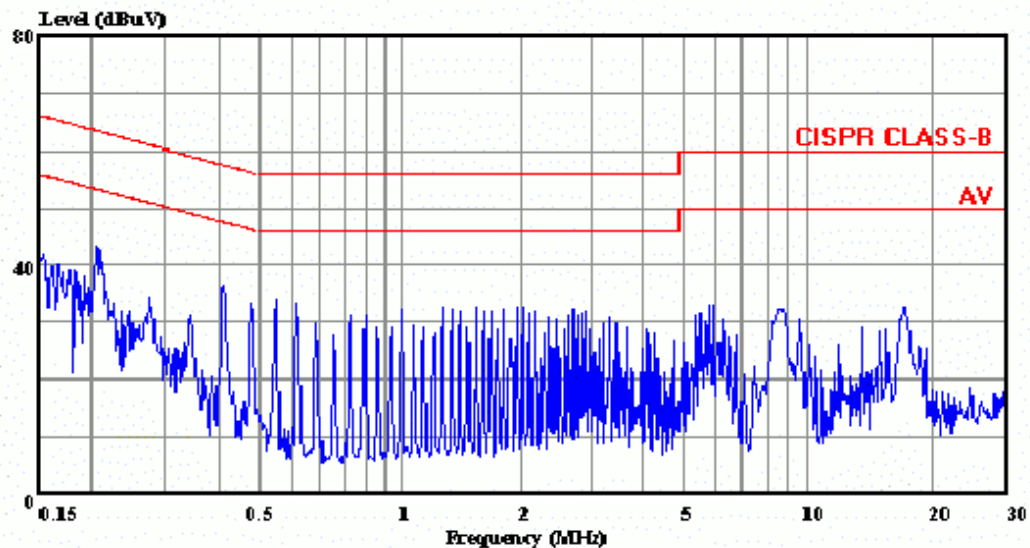
TAIWAN TOKIN EMC ENG. CORP.
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Data#: 178

File#: TOP VICTORY.EMI

Date: 2002-05-23 Time: 18:16:03



Site : No.4 Shielded room
Condition: CISPR CLASS-B KNW-407 LINE
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 1024*768/75Hz 60KHz(DVI)

Data#: 179

File#: D:\TOP VICTORY.EMI

Date: 2002-05-23

Time: 18:16:36

Site : No.4 Shielded room
Condition : CISPR CLASS-B KNW-407 LINE
EUT : 15" LCD Monitor M/N:D5063**
POWER : 120Vac / 60Hz
MEMO : 1024*768/75Hz 60KHz(DVI)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.205	42.85	-20.55	63.40	42.45	0.20	0.20	QP
2	0.274	32.53	-28.47	61.00	32.18	0.15	0.20	QP
3	0.413	36.08	-21.51	57.59	35.78	0.10	0.20	QP
4	0.618	33.70	-22.30	56.00	33.40	0.10	0.20	QP
5	1.375	32.19	-23.81	56.00	31.69	0.10	0.40	QP
6	6.048	33.25	-26.75	60.00	32.55	0.10	0.60	QP

Data#: 180 File#: D:\TOP VICTORY.EMI

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.205	36.35	-17.05	53.40	35.95	0.20	0.20	Average
2	0.274	29.15	-21.85	51.00	28.80	0.15	0.20	Average
3	0.413	33.16	-14.43	47.59	32.86	0.10	0.20	Average
4	0.618	31.50	-14.50	46.00	31.20	0.10	0.20	Average
5	1.375	30.99	-15.01	46.00	30.49	0.10	0.40	Average
6	6.048	31.91	-18.09	50.00	31.21	0.10	0.60	Average

3. RADIATED EMISSION TEST

3.1. Test Equipment

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

3.1.1. For Radiation Measurement (Anechoic Chamber)

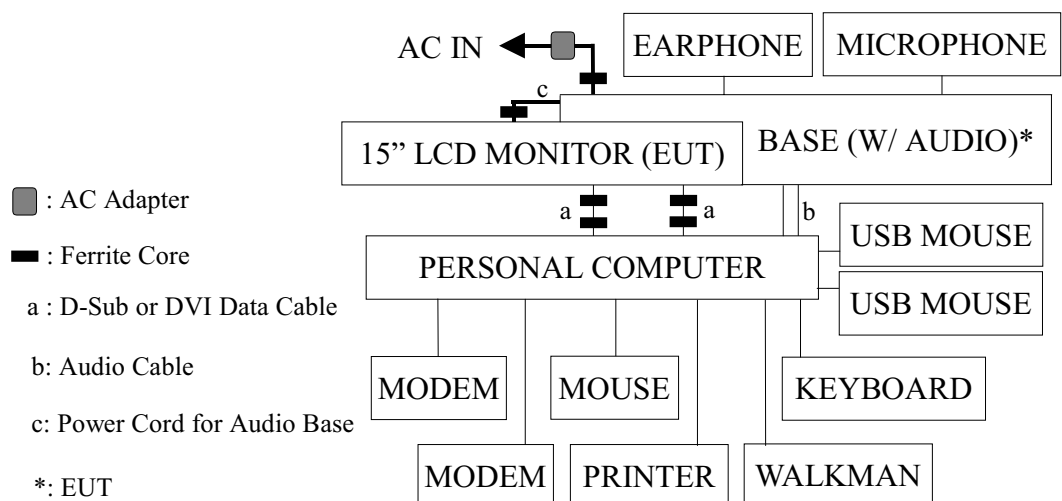
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	HP	8593EM	3826A00248	Sep. 04, 01'	1 Year
2.	Pre-Amplifier	HP	8447D	2944A06305	Mar. 05, 02'	1 Year
3.	Broadband Antenna	Schwarzbeck	BBA9106	A3L	Jan. 08, 02'	1 Year
4.	Broadband Antenna	Schwarzbeck	UHALP9108-A	0139	Jan. 08, 02'	1 Year

3.1.2. For Radiation Measurement (No. 7 Open Site)

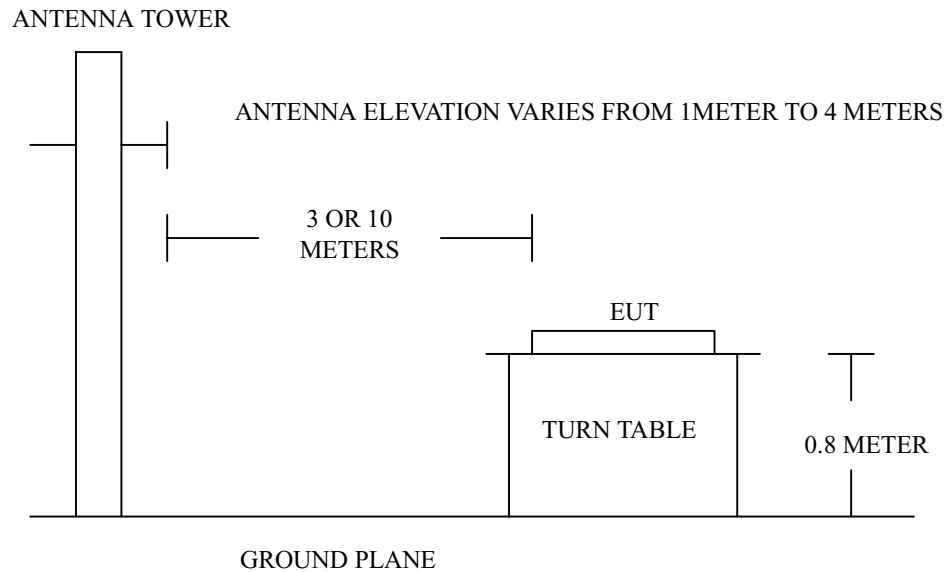
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	HP	8595E	3829A03489	Jan. 24, 02'	1 Year
2.	Test Receiver	R&S	ESVS10	826148/005	Jul. 13, 01'	1 Year
3.	Biconical Antenna	Chase	VBA6106A	1258	Aug. 13, 01'	1 Year
4.	Log Periodic Antenna	Chase	UPA6109	1064	Aug. 13, 01'	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 (10m) Setup Diagram



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 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) () is 3 meters limit.

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 was listed in 2.5. except the test set up replaced by section 3.2.

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 3 or 10 meters 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 ESVS10 was set at 120KHz.

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

The test voltage was AC 120V/60Hz via AC Adapter of EUT.

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

	Mode	Cable	Frequency Resolution	Panel Angle
	1.	D-Sub	640*480/60Hz, 31kHz	0°
	2.	D-Sub	800*600/75Hz, 48kHz	0°
※	3.	D-Sub	1024*768/75Hz, 60kHz	0°
※	4.	D-Sub	1024*768/75Hz, 60kHz	90°
	5.	DVI	640*480/60Hz, 31kHz	0°
	6.	DVI	800*600/75Hz, 48kHz	0°
※	7.	DVI	1024*768/75Hz, 60kHz	0°

Finally, re-measured two worst operating situations [**test mode 3. 、4. & 7.**] at No. 7 Open Field Test Site and all the test results are listed in section 3.7.

3.7. Radiated Emission Measurement Results

PASSED. The frequency spectrum from 30 MHz to 1000MHz is investigated. All the emissions not report below are too low against the CISPR 22 Class B limits.

Date of Test : May 23, 2002 Temperature : 24.3°C

EUT : 15" LCD Monitor Humidity : 70%

Test Mode 3 : 1024*768/75Hz, 60kHz (Cable: D-Sub, Panel Angle: 0°)

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBuV	Emission Level Horizontal dBuV/m	Limits dBuV/m	Margin dB
78.750	14.65	2.03	0.94	17.62	30.00	12.38
118.125	19.42	2.56	-2.85	19.13	30.00	10.87
157.500	22.30	3.01	-0.68	24.63	30.00	5.37
196.876	22.24	3.37	-0.59	25.02	30.00	4.98
236.251	22.98	3.77	1.53	28.28	37.00	8.72
275.626	26.55	4.03	-0.52	30.06	37.00	6.94
393.745	15.73	5.03	7.36	28.12	37.00	8.88
472.489	16.81	5.93	5.00	27.74	37.00	9.26
551.239	19.24	6.39	1.13	26.76	37.00	10.24
629.982	20.33	7.18	1.63	29.14	37.00	7.86
708.717	20.39	8.58	1.87	30.84	37.00	6.16
787.478	22.24	8.55	0.42	31.21	37.00	5.79
826.842	23.39	8.40	0.34	32.13	37.00	4.87
866.217	23.41	8.33	0.39	32.13	37.00	4.87
* 984.341	24.31	8.82	-0.96	32.17	37.00	4.83

- Remark :
1. All reading are Quasi-Peak values.
 2. “*” The worst emission was detected at 984.341MHz with corrected signal level of 32.17dBuV/m (limit was 37dBuV/m) when the antenna was at horizontal polarization and was at 4m high and the turn table was at 65° .
 3. 0° is the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

Date of Test : May 23, 2002 Temperature : 24.3°C

EUT : 15" LCD Monitor Humidity : 70%

Test Mode 3 : 1024*768/75Hz, 60kHz (Cable: D-Sub, Panel Angle: 0°)

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading		Emission Level		Margin dB
			Vertical dBuV	Vertical dBuV/m	Limits dBuV/m		
39.369	20.80	1.44	-2.38	19.86	30.00		10.14
78.744	14.69	2.03	3.61	20.33	30.00		9.67
131.247	20.07	2.74	-0.39	22.42	30.00		7.58
157.493	22.01	3.01	1.21	26.23	30.00		3.77
196.845	23.48	3.37	-2.15	24.70	30.00		5.30
209.985	23.52	3.51	-2.04	24.99	30.00		5.01
* 236.245	22.98	3.77	8.17	34.92	37.00		2.08
275.615	24.29	4.03	4.29	32.61	37.00		4.39
314.982	15.26	4.38	11.22	30.86	37.00		6.14
354.354	16.37	4.76	9.70	30.83	37.00		6.17
472.471	18.06	5.93	7.87	31.86	37.00		5.14
551.213	19.33	6.39	4.43	30.15	37.00		6.85
629.953	20.60	7.18	4.45	32.23	37.00		4.77
708.711	20.96	8.58	4.56	34.10	37.00		2.90
787.483	22.15	8.55	0.99	31.69	37.00		5.31
866.235	23.56	8.33	-1.01	30.88	37.00		6.12

- Remark :
1. All reading are Quasi-Peak values.
 2. "*" The worst emission was detected at 236.245MHz with corrected signal level of 34.92dBuV/m (limit was 37dBuV/m) when the antenna was at vertical polarization and was at 1.0m high and the turn table was at 350° .
 3. 0° is the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

Date of Test : Jun. 03, 2002 Temperature : 27°C

EUT : 15" LCD Monitor Humidity : 61%

Test Mode 4 : 1024*768/75Hz, 60kHz (Cable: D-Sub, Panel Angle: 90°)

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading		Emission Level		Margin dB
			Horizontal dBuV		Horizontal dBuV/m	Limits dBuV/m	
78.757	14.65	2.03	2.05		18.73	30.00	11.27
157.507	22.30	3.01	-0.06		25.25	30.00	4.75
196.883	22.24	3.37	-0.11		25.50	30.00	4.50
236.254	22.98	3.77	1.63		28.38	37.00	8.62
275.638	26.55	4.03	0.86		31.44	37.00	5.56
315.015	13.69	4.38	9.62		27.69	37.00	9.31
393.767	15.73	5.03	2.93		23.69	37.00	13.31
472.520	16.81	5.93	5.73		28.47	37.00	8.53
531.584	18.47	6.33	0.32		25.12	37.00	11.88
630.022	20.33	7.18	1.62		29.13	37.00	7.87
787.474	22.24	8.55	2.29		33.08	37.00	3.92
826.843	23.39	8.40	0.07		31.86	37.00	5.14
866.227	23.41	8.33	2.05		33.79	37.00	3.21
905.609	22.91	8.49	0.10		31.50	37.00	5.50

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading		Emission Level		Margin dB
			Vertical dBuV		Vertical dBuV/m	Limits dBuV/m	
59.786	13.25	1.80	5.76		20.81	30.00	9.19
118.130	17.94	2.56	1.04		21.54	30.00	8.46
157.512	22.01	3.01	-1.07		23.95	30.00	6.05
196.885	23.48	3.37	-0.70		26.15	30.00	3.85
236.264	22.98	3.77	0.09		26.84	37.00	10.16
374.077	16.36	4.92	4.84		26.12	37.00	10.88
472.518	18.06	5.93	5.21		29.20	37.00	7.80
511.893	18.63	6.30	1.59		26.52	37.00	10.48
669.398	20.56	8.40	-1.53		27.43	37.00	9.57
708.774	20.96	8.58	-0.49		29.05	37.00	7.95
826.903	22.73	8.40	-0.06		31.07	37.00	5.93
866.226	23.56	8.33	1.09		32.98	37.00	4.02

Remark : All reading are Quasi-Peak values.

Date of Test : May 23, 2002 Temperature : 24.3°C

EUT : 15" LCD Monitor Humidity : 70%

Test Mode 7 : 1024*768/75Hz, 60kHz (Cable: DVI, Panel Angle: 0°)

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading		Emission Level		Margin dB
			Horizontal dBuV		Horizontal dBuV/m	Limits dBuV/m	
137.819	20.88	2.81	-1.34		22.35	30.00	7.65
157.492	22.30	3.01	-0.76		24.55	30.00	5.45
196.858	22.24	3.37	-1.52		24.09	30.00	5.91
236.261	22.98	3.77	-1.88		24.87	37.00	12.13
275.627	26.55	4.03	-1.55		29.03	37.00	7.97
393.723	15.73	5.03	8.29		29.05	37.00	7.95
472.482	16.81	5.93	5.66		28.40	37.00	8.60
511.831	17.89	6.30	1.30		25.49	37.00	11.51
672.033	20.43	8.42	3.19		32.04	37.00	4.96
708.698	20.39	8.58	1.34		30.31	37.00	6.69
787.480	22.24	8.55	3.22		34.01	37.00	2.99
866.247	23.41	8.33	-0.32		31.42	37.00	5.58
912.050	23.25	8.51	-1.14		30.62	37.00	6.38

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading		Emission Level		Margin dB
			Vertical dBuV		Vertical dBuV/m	Limits dBuV/m	
39.374	20.80	1.44	-1.47		20.77	30.00	9.23
137.819	20.59	2.81	-1.32		22.08	30.00	7.92
144.364	20.72	2.88	-0.35		23.25	30.00	6.75
157.497	22.01	3.01	0.86		25.88	30.00	4.12
223.084	23.13	3.63	-2.54		24.22	30.00	5.78
236.246	22.98	3.77	6.43		33.18	37.00	3.82
275.636	24.29	4.03	6.11		34.43	37.00	2.57
393.726	16.89	5.03	7.51		29.43	37.00	7.57
472.471	18.06	5.93	6.52		30.51	37.00	6.49
511.874	18.63	6.30	3.93		28.86	37.00	8.14
672.033	20.54	8.42	3.37		32.33	37.00	4.67
708.698	20.96	8.58	0.97		30.51	37.00	6.49
787.482	22.15	8.55	1.46		32.16	37.00	4.84
866.248	23.56	8.33	-0.20		31.69	37.00	5.31
912.050	24.21	8.51	-0.81		31.91	37.00	5.09

Remark : All reading are Quasi-Peak values.

4. MODIFICATIONS TO EUT

1. Add 2 ferrite cores on the D-Sub signal cable.
2. Add 2 ferrite cores on the DVI signal cable.
3. Add a ferrite core on the DC power cord of audio base.
4. Add a piece of aluminum foil tape on the corner of the frame of LCD panel.
5. Add a gasket on the back cover.
6. Add five pieces of aluminum tapes on the back of LCD panel.
7. Add a ferrite core on the LVDS cable of LCD panel.
8. Add a gasket on the LVDS cable of LCD panel.
9. Add a piece of aluminum tape on the LVDS cable of LCD panel.

5. DEVIATION TO TEST SPECIFICATIONS

【NONE】

APPENDIX

(Radiated Test Data at Anechoic Chamber)

Total Pages: 7

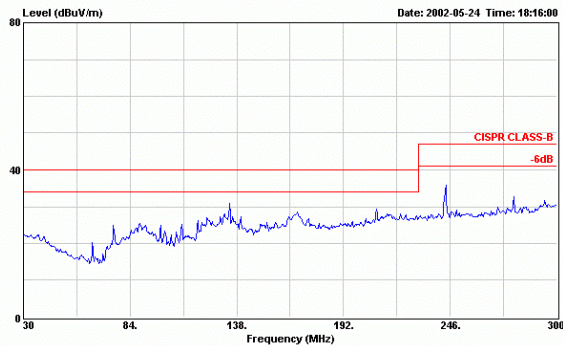
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Data#: 66 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m BBA9106B(1209) HORIZONTAL
EUT : 15" LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 640*480, 60Hz, 31KHz D-SUB

Data#: 65 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m BBA9106B(1209) VERTICAL
EUT : 15" LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 640*480, 60Hz, 31KHz D-SUB

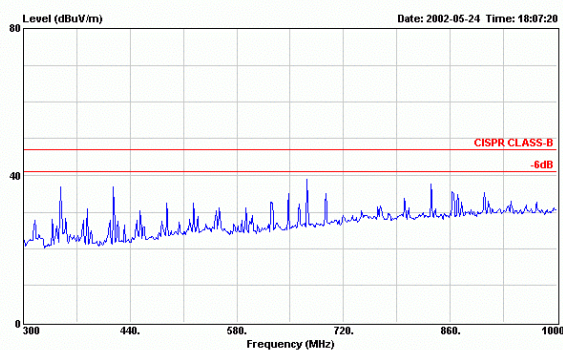
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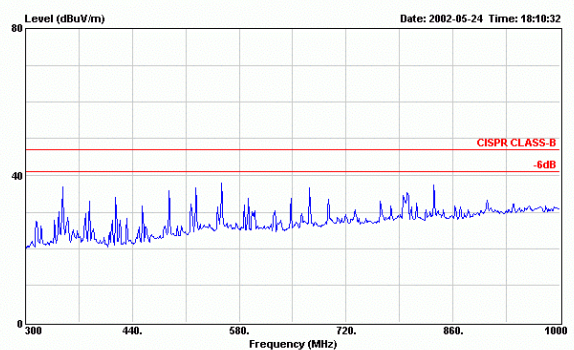
No.53-11, Tin-fu Tsun, Lin-kou Hsiang,
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Tel:02-26092133 Fax:02-26099303
Email:tttemc@tttemc.com.tw

Data#: 63 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m UHALP 9108-A 0139 HORIZONTAL
EUT : 15" LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 640*480, 60Hz, 31KHz D-SUB

Data#: 64 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m UHALP 9108-A 0139 VERTICAL
EUT : 15" LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 640*480, 60Hz, 31KHz D-SUB

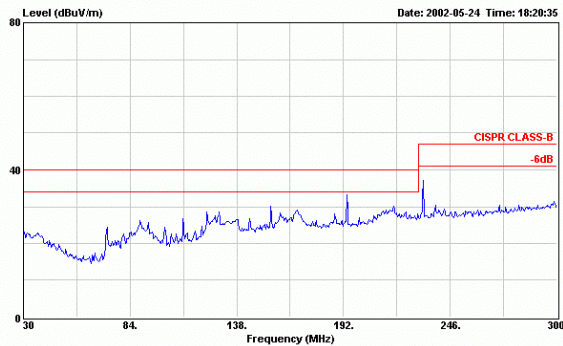
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Email:tttemc@tttemc.com.tw

Data#: 67 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m BBA9106B(1209) HORIZONTAL
EUT : 15" LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 800*600, 75Hz, 48KHz D-SUB

Data#: 68 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m BBA9106B(1209) VERTICAL
EUT : 15" LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 800*600, 75Hz, 48KHz D-SUB

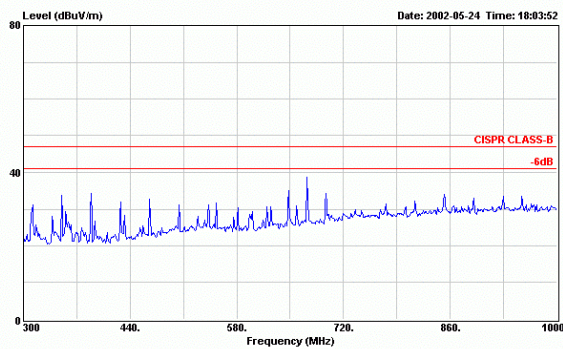
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TAIWAN TOKIN EMC ENG. CORP.
台灣東金科技股份有限公司

No.53-11, Tin-fu Tsun, Lin-kou Hsiang,
Taipei Country, Taiwan, R.O.C.
Tel:02-26092133 Fax:02-26099303
Email:tttemc@tttemc.com.tw

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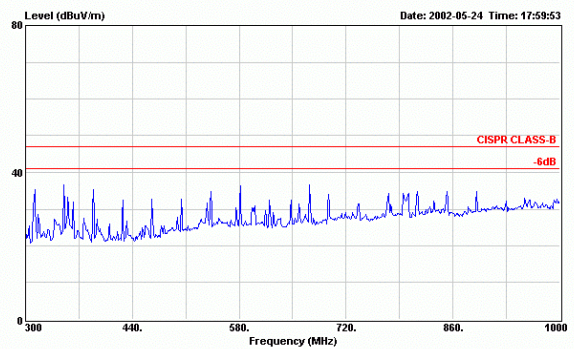
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Taipei Country, Taiwan, R.O.C.
Tel:02-26092133 Fax:02-26099303
Email:tttemc@tttemc.com.tw

Data#: 62 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m UHALP 9108-A 0139 HORIZONTAL
EUT : 15" LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 800*600, 75Hz, 48KHz D-SUB

Data#: 61 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m UHALP 9108-A 0139 VERTICAL
EUT : 15" LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 800*600, 75Hz, 48KHz D-SUB

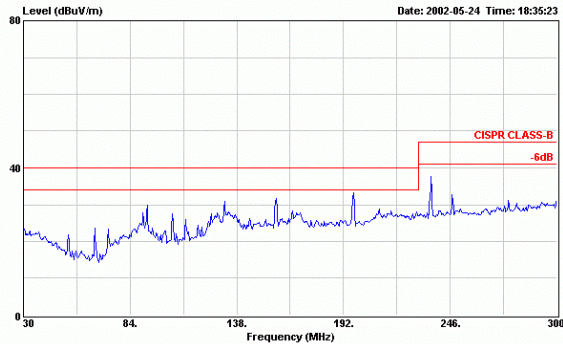
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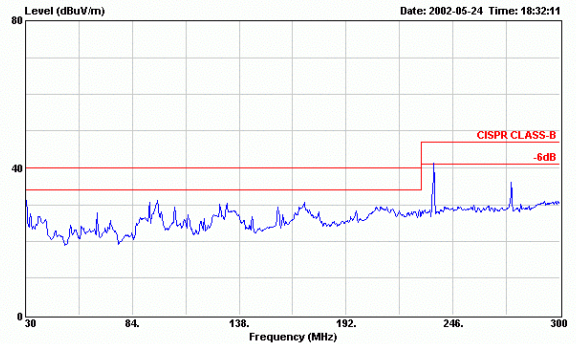
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Tel:02-26092133 Fax:02-26099303
Email:tttemc@tttemc.com.tw

Data#: 70 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m BBA9106B(1209) HORIZONTAL
EUT : 15" LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 1024*768,75Hz,60KHz D-SUB

Data#: 69 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m BBA9106B(1209) VERTICAL
EUT : 15" LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 1024*768,75Hz,60KHz D-SUB

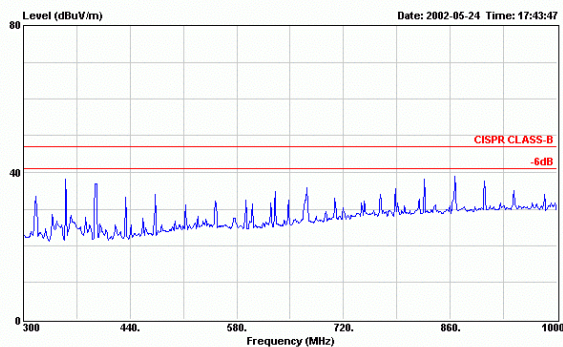
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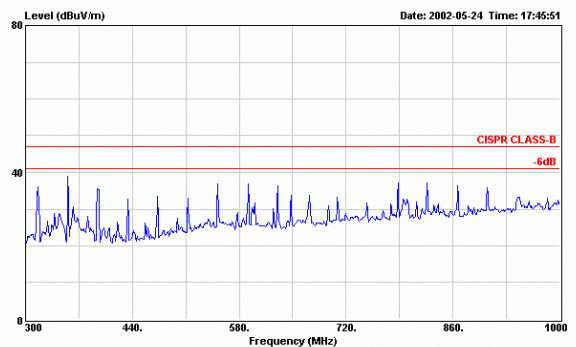
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Email:tttemc@tttemc.com.tw

Data#: 59 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m UHALP 9108-A 0139 HORIZONTAL
EUT : 15" LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 1024*768,75Hz,60KHz D-SUB

Data#: 60 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m UHALP 9108-A 0139 VERTICAL
EUT : 15" LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 1024*768,75Hz,60KHz D-SUB

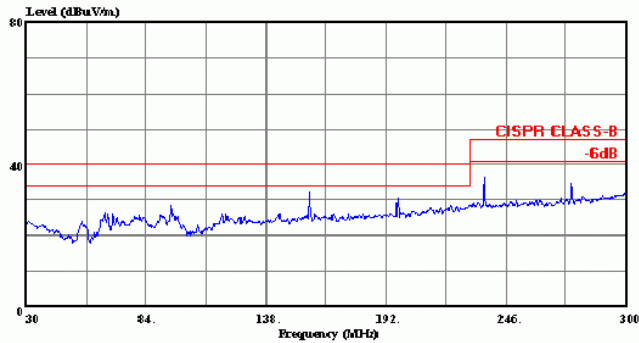
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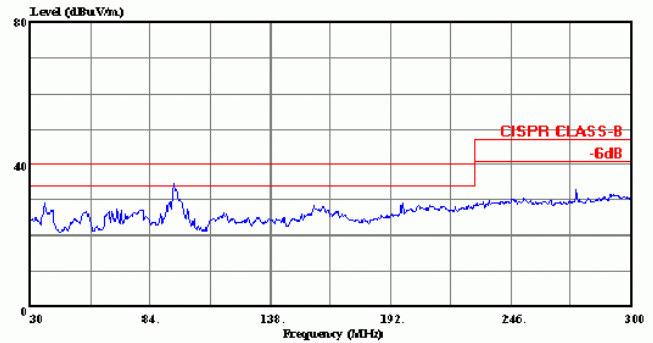
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Data#: 132 File#: A.O.C.EMI Date: 2002-06-03 Time: 19:34:21 Data#: 131 File#: A.O.C.EMI Date: 2002-06-03 Time: 19:30:54



Site : Anechoic Chamber
Condition: CISPR CLASS-B 3m BBA9106B(1209) HORIZONTAL
EUT : 15''LCD MONITOR M/N:D5063**
POWER : 120V/60Hz
MEMO : 1024*768,75Hz,60KHz (D-SUB&ROTATE)



Site : Anechoic Chamber
Condition: CISPR CLASS-B 3m BBA9106B(1209) VERTICAL
EUT : 15''LCD MONITOR M/N:D5063**
POWER : 120V/60Hz
MEMO : 1024*768,75Hz,60KHz (D-SUB&ROTATE)

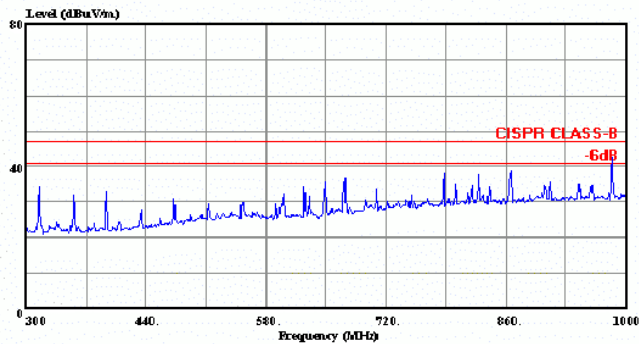
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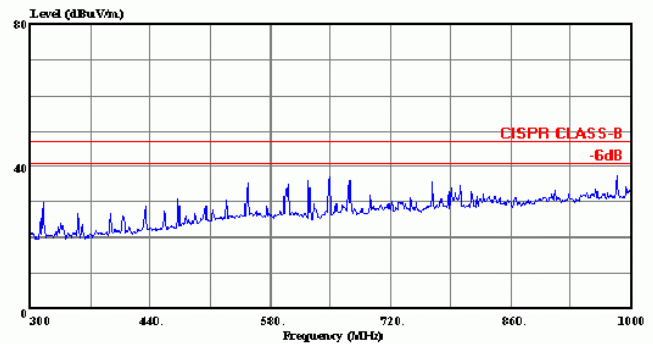
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Data#: 133 File#: A.O.C.EMI Date: 2002-06-03 Time: 23:38:40 Data#: 134 File#: A.O.C.EMI Date: 2002-06-03 Time: 19:41:44



Site : Anechoic Chamber
Condition: CISPR CLASS-B 3m UHALP 9108-A 0139 HORIZONTAL
EUT : 15''LCD MONITOR M/N:D5063**
POWER : 120V/60Hz
MEMO : 1024*768,75Hz,60KHz (D-SUB&ROTATE)



Site : Anechoic Chamber
Condition: CISPR CLASS-B 3m UHALP 9108-A 0139 VERTICAL
EUT : 15''LCD MONITOR M/N:D5063**
POWER : 120V/60Hz
MEMO : 1024*768,75Hz,60KHz (D-SUB&ROTATE)

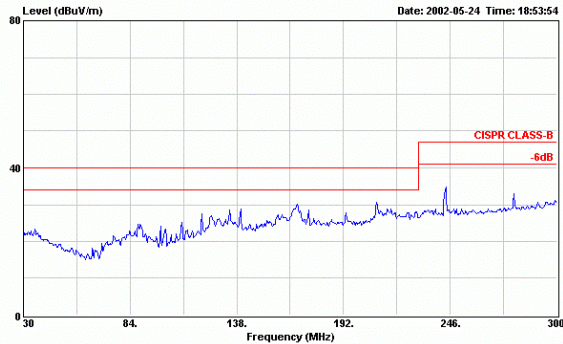
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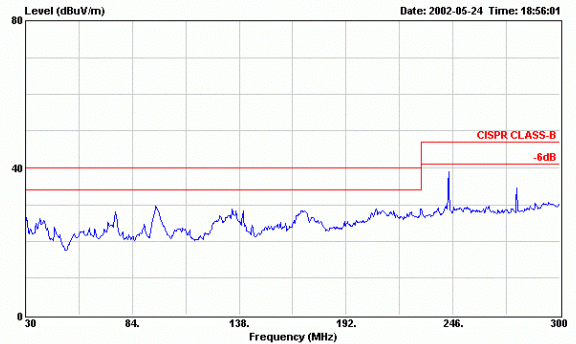
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Taipei Country, Taiwan, R.O.C.
Tel:02-26092133 Fax:02-26099303
Email:tttemc@tttemc.com.tw

Data#: 75 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m BBA9106B(1209) HORIZONTAL
EUT : 15" LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 640*480, 60Hz, 31KHz DVI

Data#: 76 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m BBA9106B(1209) VERTICAL
EUT : 15" LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 640*480, 60Hz, 31KHz DVI

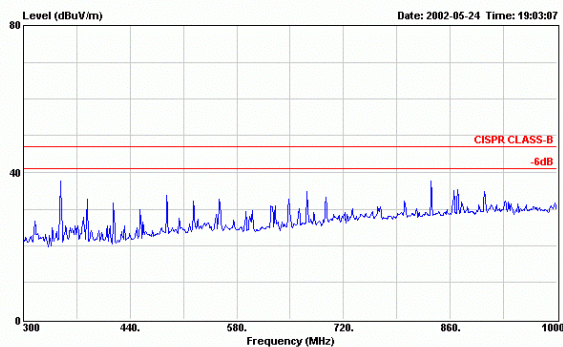
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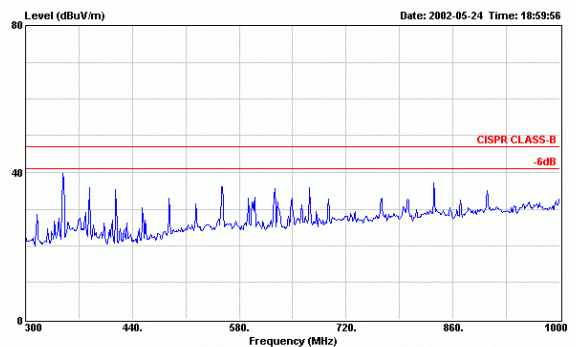
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Tel:02-26092133 Fax:02-26099303
Email:tttemc@tttemc.com.tw

Data#: 78 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m UHALP 9108-A 0139 HORIZONTAL
EUT : 15" LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 640*480, 60Hz, 31KHz DVI

Data#: 77 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m UHALP 9108-A 0139 VERTICAL
EUT : 15" LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 640*480, 60Hz, 31KHz DVI

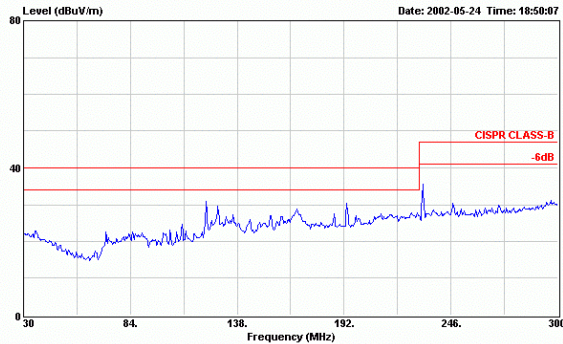
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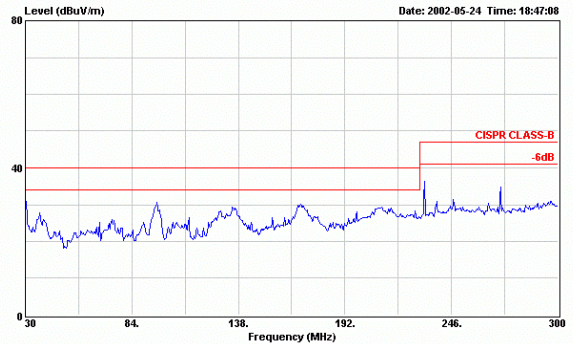
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Taipei Country, Taiwan, R.O.C.
Tel:02-26092133 Fax:02-26099303
Email:tttemc@tttemc.com.tw

Data#: 74 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m BBA9106B(1209) HORIZONTAL
EUT : 15" LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 800*600, 75Hz, 48KHz DVI

Data#: 73 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m BBA9106B(1209) VERTICAL
EUT : 15" LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 800*600, 75Hz, 48KHz DVI

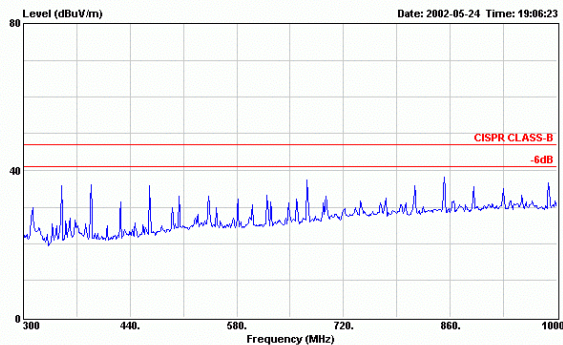
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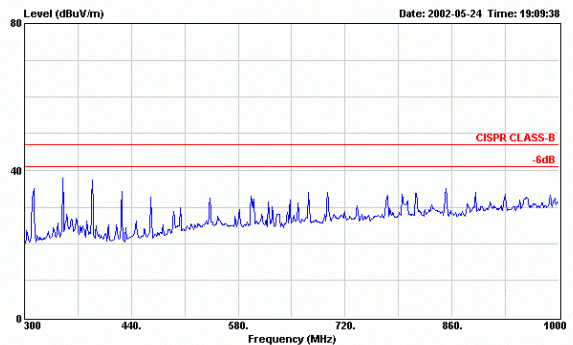
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Email:tttemc@tttemc.com.tw

Data#: 79 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m UHALP 9108-A 0139 HORIZONTAL
EUT : 15" LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 800*600, 75Hz, 48KHz DVI

Data#: 80 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m UHALP 9108-A 0139 VERTICAL
EUT : 15" LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 800*600, 75Hz, 48KHz DVI

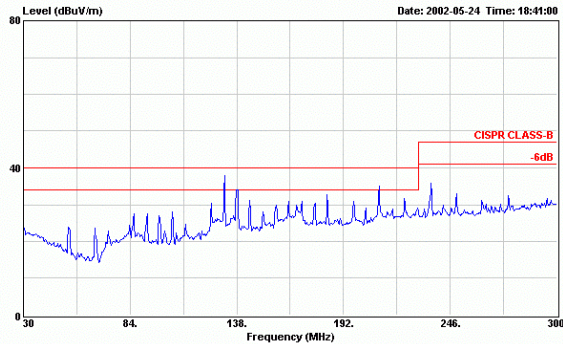
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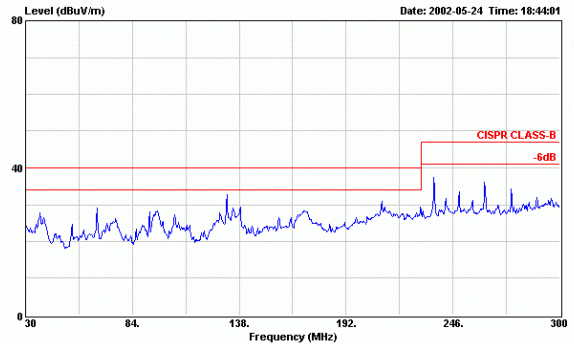
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Tel:02-26092133 Fax:02-26099303
Email:tttemc@tttemc.com.tw

Data#: 71 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m BBA9106B(1209) HORIZONTAL
EUT : 15"LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 1024*768,75Hz,60KHz DVI

Data#: 72 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m BBA9106B(1209) VERTICAL
EUT : 15"LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 1024*768,75Hz,60KHz DVI

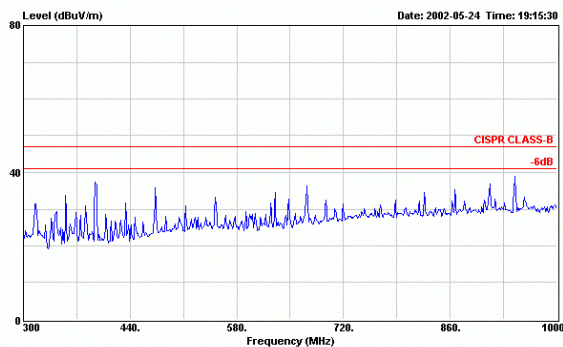
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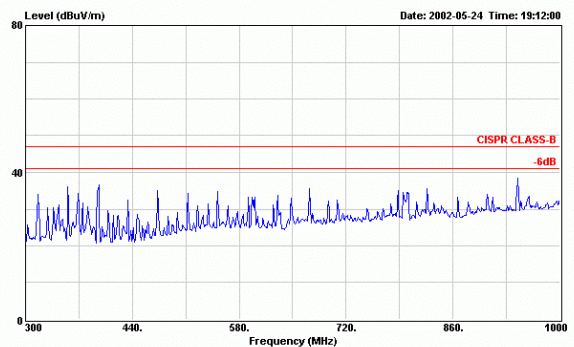
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Tel:02-26092133 Fax:02-26099303
Email:tttemc@tttemc.com.tw

Data#: 82 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m UHALP 9108-A 0139 HORIZONTAL
EUT : 15"LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 1024*768,75Hz,60KHz DVI

Data#: 81 File#: D:\A.O.C.EMI



Site : Anechoic Chamber
Condition : CISPR CLASS-B 3m UHALP 9108-A 0139 VERTICAL
EUT : 15"LCD MONITOR M/N:D5063**
POWER : 120Vac/60Hz
MEMO : 1024*768,75Hz,60KHz DVI