

APPLICATION FOR CERTIFICATION  
(FCC CFR47 PART 15 DIGITAL DEVICE)

On Behalf of

LG Electronics USA

PLASMA MONITOR

Model : (1)MU-42PZ41V (2)P42W24P

FCC ID : BEJMU42PZ41V

Brand : (1)LG (2)ZENITH

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Date of Report : Dec. 14, 2002

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**TEST REPORT CERTIFICATION**

Applicant : LG Electronics USA  
 Manufacturer : LG Electronics Inc.  
 FCC ID : BEJMU42PZ41V  
 EUT Description : PLASMA MONITOR  
 (A) MODEL NO. : (1)MU-42PZ41V (2)P42W24P  
 (B) SERIAL NO. : 210KT00005  
 (C) BRAND : (1)LG (2)ZENITH  
 (D) POWER SUPPLY : 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/2002 and CISPR 22/1997)

(NOTE : These results are 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 : Nov. 23 ~ Dec. 11, 2002

Prepared By: Monica Chang Dec. 18, 2002  
 (Monica Chang/Officer)

Test Engineer : Allen Wang Dec. 18, 2002  
 (Allen Wang/Deputy Manager)

Approve & Authorized Signer : Jackie Deng 12/8/02  
 (Jackie Deng/Assistant General Manager)

# 1. GENERAL INFORMATION

## 1.1. Description of Device (EUT)

|                                   |   |                                                                                                                                                                                                                     |
|-----------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description                       | : | PLASMA MONITOR                                                                                                                                                                                                      |
| Model Number                      | : | (1)MU-42PZ41V (2)P42W24P                                                                                                                                                                                            |
|                                   |   | Above models are identical except the model number and brand.<br>(1) MU-42PZ41V is for LG.<br>(2) P42W24P is for ZENITH<br>The model MU-42PZ41V is representative selected in the test and included in this report. |
| FCC ID                            | : | BEJMU42PZ41V                                                                                                                                                                                                        |
| Brand                             | : | (1)LG (2)ZENITH                                                                                                                                                                                                     |
| Applicant                         | : | LG Electronics USA<br>6133 N River Rd., Suite 1100,<br>Rosemont IL US.                                                                                                                                              |
| Manufacturer                      | : | LG Electronics Inc. (Kumi TV Plant.)<br>Kumi TV Plant. 642, Jinpyung-dong, Kumi-City,<br>Kyoungsang Buk-do, 730-360, Korea                                                                                          |
| Scanning Frequency                | : | Horizontal: 31kHz-64kHz<br>Vertical: 56Hz-120Hz                                                                                                                                                                     |
| Maximum Resolution                | : | 1280x1024                                                                                                                                                                                                           |
| Display Panel Module              | : | LG, M/N PDP42WVSN4                                                                                                                                                                                                  |
| Remote Control                    | : | LG, 6710V00092K                                                                                                                                                                                                     |
| D-Sub Data Cable                  | : | Shielded, Detachable, 7.3m (to PC)<br>Bonded two ferrite cores                                                                                                                                                      |
| DVI Data Cable                    | : | Shielded, Detachable, 2.0m (to PC)<br>Bonded two ferrite cores                                                                                                                                                      |
| Speaker w/Stand (L, R) (Optional) | : | Speaker: LG, AP-42SA40<br>Wires: Non-Shielded, Detachable, 4.7m<br>Bonded a ferrite core                                                                                                                            |
| Power Cord (AC IN)                | : | Non-Shielded, Detachable, 3.0m                                                                                                                                                                                      |

Date of Receipt of Sample : Nov. 15, 2002

Date of Test : Nov. 23 ~ Dec. 11, 2002

## 1.2. Tested Supporting System Details

### 1.2.1. PC SYSTEM

|                |   |                                                    |
|----------------|---|----------------------------------------------------|
| Model Number   | : | HP VECTRA XE320                                    |
| Serial Number  | : | SG21102000                                         |
| FCC ID         | : | By DoC                                             |
| BSMI ID        | : | 3912A318                                           |
| Brand          | : | HP                                                 |
| Manufacturer   | : | First International Computer, Inc.                 |
| VGA Card       | : | Unitch, M/N Radion VE<br>P/N UV-010004, FCC By DoC |
| RS232 Cable    | : | Non-Shielded, Detachable, 1.8m (to EUT)            |
| Audio In Cable | : | Non-Shielded, Detachable, 1.5m (to EUT)            |
| Power Cord     | : | Non-Shielded, Detachable, 1.8m                     |

### 1.2.2. 15" LCD MONITOR (LINK TO EUT)

|                    |   |                                                                                                        |
|--------------------|---|--------------------------------------------------------------------------------------------------------|
| Model Number       | : | D5063M                                                                                                 |
| Serial Number      | : | CN206A6013                                                                                             |
| FCC ID             | : | By DoC                                                                                                 |
| BSMI ID            | : | R33037                                                                                                 |
| Manufacturer       | : | Top Victory Electronics (Fujian) Co., Ltd.                                                             |
| Data Cable (D-Sub) | : | Shielded, Detachable, 1.8m<br>Bonded two ferrite cores                                                 |
| AC Adapter         | : | Delta, M/N ADP-40TB<br>BSMI ID 3892D142<br>Cord: Shielded, Undetachable, 1.8m<br>Bonded a ferrite core |
| Power Cord         | : | Non-Shielded, Detachable, 1.8m                                                                         |

### 1.2.3. DOT MATRIX PRINTER

|               |   |                                  |
|---------------|---|----------------------------------|
| Model Number  | : | KX-P2135                         |
| Serial Number | : | 8DMCNC02116                      |
| FCC ID        | : | ACJ5Z6KX-P2135                   |
| BSMI ID       | : | 3872A371                         |
| Manufacturer  | : | Matsushita (Brand: Panasonic)    |
| Data Cable    | : | Shielded, Detachable, 1.5m       |
| Power Cord    | : | Non-Shielded, Undetachable, 1.8m |

## 1.2.4. 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 |

## 1.2.5. MODEM

|               |   |                                                            |
|---------------|---|------------------------------------------------------------|
| Model Number  | : | DM-1414                                                    |
| Serial Number | : | 980034388                                                  |
| FCC ID        | : | IFAXDM1414                                                 |
| Manufacturer  | : | Aceex                                                      |
| Data Cable    | : | Shielded, Detachable, 1.2m                                 |
| Power Adapter | : | Amigo, Model AM-91000A<br>Non-Shielded, Undetachable, 1.8m |

## 1.2.6. MOUSE

|               |   |                                  |
|---------------|---|----------------------------------|
| Model Number  | : | M-S48a                           |
| Serial Number | : | LZE20501583                      |
| 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

|               |   |                                |
|---------------|---|--------------------------------|
| Model Number  | : | DM-5E                          |
| Serial Number | : | N/A                            |
| Manufacturer  | : | Kinyo                          |
| Data Cable    | : | Non-Shielded, Detachable, 4.2m |

## 1.2.10. WALKMAN

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

## 1.2.11. 10/100 FAST ETHERNET SWITCH (HUB)

|               |   |                                        |
|---------------|---|----------------------------------------|
| Model Number  | : | DES-1005D                              |
| Serial Number | : | 0212G1A06039                           |
| FCC ID        | : | By DoC                                 |
| Manufacturer  | : | D-Link                                 |
| LAN Cable     | : | Non-Shielded, Detachable, 1.8m         |
| AC-DC Adapter | : | DVE, M/N DV-0751AS                     |
|               |   | Cord: Non-Shielded, Undetachable, 1.8m |

## 1.2.12. COLOR TV PATTERN GENERATOR (FOR RADIATED TEST, LINK TO EUT)

|               |   |                                |
|---------------|---|--------------------------------|
| Model Number  | : | PM 5418 TDSI+Y/C               |
| Serial Number | : | LO646252                       |
| Manufacturer  | : | Philips                        |
| Cal. Date     | : | Jul. 23, 2002                  |
| S-Video Cable | : | Non-Shielded, Detachable, 1.5m |
| A/V Cable     | : | Non-Shielded, Detachable, 1.8m |
| Power Cord    | : | Non-Shielded, Detachable, 1.8m |

## 1.2.13. COLOR TV PATTERN GENERATOR (FOR CONDUCTED TEST, LINK TO EUT)

|               |   |                                |
|---------------|---|--------------------------------|
| Model Number  | : | PM 5415TX+Y/C                  |
| Serial Number | : | LO732610                       |
| Manufacturer  | : | Fluke                          |
| Cal. Date     | : | Apr. 18, 2002                  |
| S-Video Cable | : | Non-Shielded, Detachable, 1.8m |
| A/V Cable     | : | Non-Shielded, Detachable, 1.8m |
| Power Cord    | : | Non-Shielded, Detachable, 1.8m |

## 1.2.14. DVD PLAYER

|                     |   |                                  |
|---------------------|---|----------------------------------|
| Model Number        | : | DV9003S                          |
| Serial Number       | : | 91071060                         |
| Manufacturer        | : | Top Soution Technology Co., Ltd. |
| Audio Cable         | : | Non-Shielded, Detachable, 1.8m   |
| Component-A/V Cable | : | Non-Shielded, Detachable, 1.8m   |
| Power Cord          | : | Non-Shielded, Detachable, 1.5m   |

## 1.2.15. REMOTE CONTROL DATA CABLE (TO EUT)

|                      |   |                                |
|----------------------|---|--------------------------------|
| Remote Control Cable | : | Non-Shielded, Detachable, 1.2m |
|                      |   | Bonded a ferrite core          |

### 1.3. Description of Test Facility

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

Site Description (No. 6 Open Site) : Aug. 10, 2000 File on  
Federal Communication Commission  
Registration Number: 98448

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<br>(Distance: 10m) | 30MHz~300MHz    | +4.5dB / -4.5dB   |
|                                   | 300MHz~1000MHz  | +3.88dB / -3.84dB |
| Radiation Test<br>(Distance: 3m)  | 30MHz~300MHz    | +4.26dB / -4.22dB |
|                                   | 300MHz~1000MHz  | +5.28dB / -4.0dB  |

Remark : Uncertainty =  $K\mu c(y)$

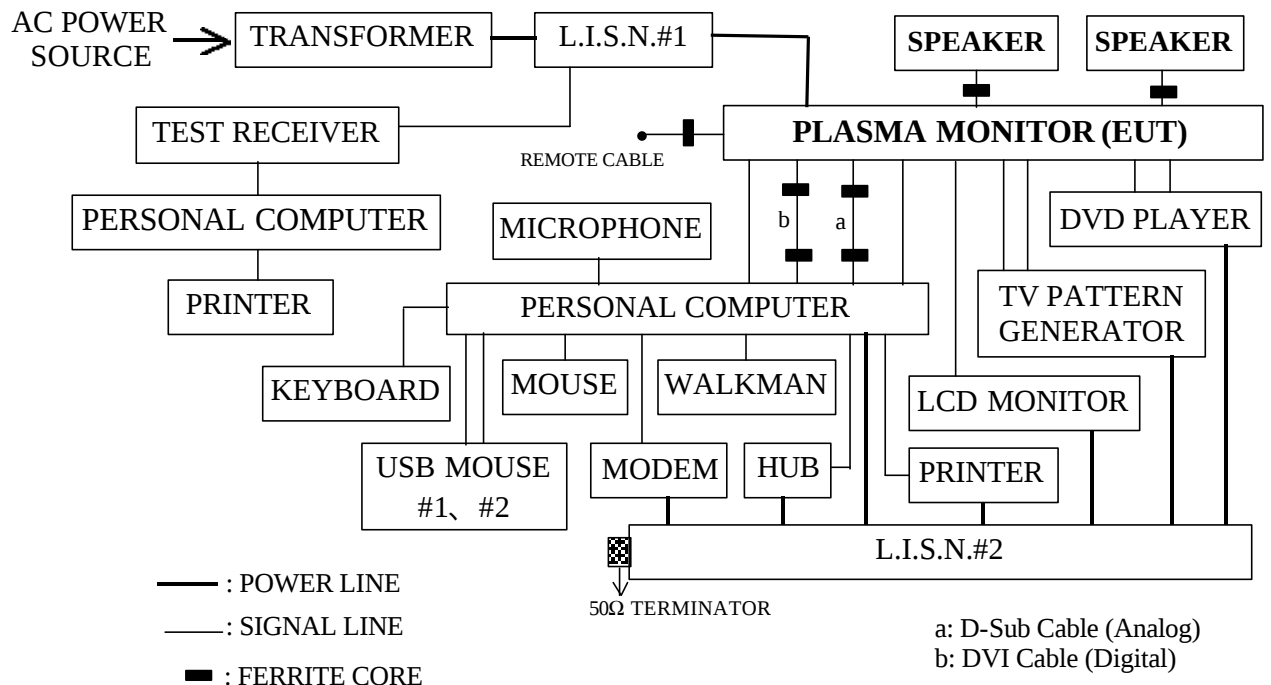
## 2. POWERLINE CONDUCTED TEST

### 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.18, 02'  | 1 Year        |
| 3.   | L.I.S.N. #2   | Kyoritsu        | KNW-407   | 8-1430-6   | Nov.18, 02'  | 1 Year        |

### 2.2. Block Diagram of Test Setup



### 2.3. Conducted Powerline 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         |

Remark: If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

## 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. PLASMA MONITOR (EUT)

|                                      |   |                                                                                          |
|--------------------------------------|---|------------------------------------------------------------------------------------------|
| Model Number                         | : | MU-42PZ40                                                                                |
| Serial Number                        | : | 210KT00005                                                                               |
| Brand                                | : | LG                                                                                       |
| FCC ID                               | : | BEJMU42PZ41V                                                                             |
| Manufacturer                         | : | LG Electronics Inc. (Kumi TV Plant.)                                                     |
| Display Panel Module                 | : | LG, M/N PDP42WVSN                                                                        |
| Remote Control                       | : | LG, 6710V00092K                                                                          |
| D-Sub Data Cable                     | : | Shielded, Detachable, 7.3m (to PC)<br>Bonded two ferrite cores                           |
| DVI Data Cable                       | : | Shielded, Detachable, 2.0m (to PC)<br>Bonded two ferrite cores                           |
| Speaker w/Stand (L, R)<br>(Optional) | : | Speaker: LG, AP-42SA40<br>Wires: Non-Shielded, Detachable, 4.7m<br>Bonded a ferrite core |
| Power Cord (AC IN)                   | : | Non-Shielded, Detachable, 3.0m                                                           |

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. The Personal system read data from disk.
- 2.5.4. The Personal system running the EMI self-test program "IBM H PATTERN" and sent the "H" characters to PLASMA MONITOR (EUT), and then the screen of PLASMA MONITOR (EUT) displayed "H" patterns by EUT's resolution via RGB1/D-Sub or RGB2/DVI input.
- 2.5.5. The DVD Player played a DVD Movie and sent the image & sound to the PLASMA MONITOR (EUT) via Component input and Audio input.
- 2.5.6. The LCD Monitor displayed "H" patterns through EUT's RGB1 Output and RGB1 Input.
- 2.5.7. The TV Pattern Generator sent the "Color Bar" image to PLASMA MONITOR(EUT), then the screen of PLASMA MONITOR(EUT) displayed image via S-Video or A/V input.
- 2.5.8. The PLASMA MONITOR (EUT) displayed character "H" and image "Color Bar" at the same time in the PIP (Picture in Picture) mode testing.
- 2.5.9. The other peripheral devices were driven and operated in turn during all testing.

## 2.6. Test Procedure

The EUT was put on table which was above the ground by 80cm and its power 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 $\Omega$  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.

## 2.7. Line Conducted RF Voltage Measurement Results

**PASSED.** Please refer to the following pages.

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

EUT with the following test modes and with AC 120V/60Hz supplying voltage were performed during conducted testing and all the test results are attached in next pages.

(Test Date: Nov. 23, 2002 Temperature: 24 Humidity: 66%)

| No. | Input Port                  | Display of EUT                          | Reference Test Data #         |
|-----|-----------------------------|-----------------------------------------|-------------------------------|
| 1.  | RGB 1 Input/ D-Sub          | Character "H",<br>640*480/75Hz, 38kHz   | # 16 (17, 18); # 13 (14, 15). |
| 2.  | RGB 1 Input/ D-Sub          | Character "H",<br>1024*768/75Hz, 60kHz  | # 7 (8, 9); # 10 (11, 12).    |
| 3.  | RGB 1 Input/ D-Sub          | Character "H",<br>1280*1024/60Hz, 64kHz | # 4 (5, 6); # 1 (2, 3).       |
| 4.  | RGB 2 Input/ DVI            | Character "H",<br>800*600/60Hz, 38kHz   | # 19 (20, 21); # 22 (23, 24). |
| 5.  | RGB 2 Input/ DVI            | Character "H",<br>1024*768/60Hz, 48kHz  | # 28 (29, 30); # 25 (26, 27). |
| 6.  | RGB 2 Input/ DVI            | Character "H",<br>1280*1024/60Hz, 64kHz | # 31 (32, 33); # 40 (41, 42). |
| 7.  | A/V Input                   | Image "Color Bar"                       | # 34 (35, 36); # 37 (38, 39). |
| 8.  | S-Video Input               | Image "Color Bar"                       | # 46 (47, 48); # 43 (44, 45). |
| 9.  | Component Input (DVD)       | Image "DVD Movie"                       | # 58 (59, 60); # 55 (56, 57). |
| 10. | D-Sub + A/V Inputs<br>(PIP) | Character "H" +<br>Image "Color Bar"    | # 49 (50, 51); # 52 (53, 54). |



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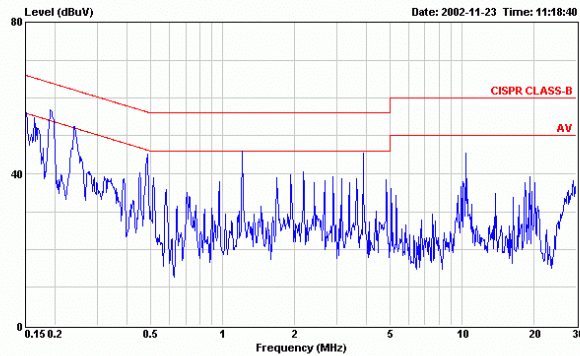
No.53-11, Tin-fu Tsun, Lin-kou Hsiang,  
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Email:ttenc@ttenc.com.tw

Data#: 16 File#: D:\Lg.emi



Site : No.4 Shielded room  
Condition : CISPR CLASS-B KNW-407(S/R3) NEUTRAL  
EUT : Plasma Monitor M/N:MU-42PZ41V  
POWER : 120Vac / 60Hz(24°C / 66%)  
MEMO : 640\*480 / 75Hz;38KHz(D-SUB)

Data#: 17 File#: D:\Lg.emi

Date: 2002-11-23 Time: 11:19:41

Site : No.4 Shielded room  
Condition : CISPR CLASS-B KNW-407(S/R3) NEUTRAL  
EUT : Plasma Monitor M/N:MU-42PZ41V  
POWER : 120Vac / 60Hz(24°C / 66%)  
MEMO : 640\*480 / 75Hz;38KHz(D-SUB)

|   | Freq   | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Remark |
|---|--------|-------|------------|------------|------------|--------------|------------|--------|
|   | MHz    | dBuV  | dB         | dBuV       | dBuV       | dB           | dB         |        |
| 1 | 0.150  | 54.74 | -11.26     | 66.00      | 54.14      | 0.40         | 0.20       | QP     |
| 2 | 0.191  | 56.01 | -7.97      | 63.98      | 55.61      | 0.20         | 0.20       | QP     |
| 3 | 0.240  | 50.88 | -11.21     | 62.09      | 50.48      | 0.20         | 0.20       | QP     |
| 4 | 0.483  | 44.18 | -12.11     | 56.29      | 43.58      | 0.40         | 0.20       | QP     |
| 5 | 1.210  | 44.51 | -11.49     | 56.00      | 43.71      | 0.40         | 0.40       | QP     |
| 6 | 3.869  | 45.30 | -10.70     | 56.00      | 44.50      | 0.40         | 0.40       | QP     |
| 7 | 19.253 | 36.13 | -23.87     | 60.00      | 34.53      | 0.90         | 0.70       | QP     |

Data#: 18 File#: D:\Lg.emi

|   | Freq   | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Remark  |
|---|--------|-------|------------|------------|------------|--------------|------------|---------|
|   | MHz    | dBuV  | dB         | dBuV       | dBuV       | dB           | dB         |         |
| 1 | 0.150  | 48.36 | -7.64      | 56.00      | 47.76      | 0.40         | 0.20       | Average |
| 2 | 0.191  | 44.07 | -9.91      | 53.98      | 43.67      | 0.20         | 0.20       | Average |
| 3 | 0.240  | 39.61 | -12.48     | 52.09      | 39.21      | 0.20         | 0.20       | Average |
| 4 | 0.483  | 32.53 | -13.76     | 46.29      | 31.93      | 0.40         | 0.20       | Average |
| 5 | 1.210  | 31.88 | -14.12     | 46.00      | 31.08      | 0.40         | 0.40       | Average |
| 6 | 3.869  | 33.07 | -12.93     | 46.00      | 32.27      | 0.40         | 0.40       | Average |
| 7 | 19.253 | 21.77 | -28.23     | 50.00      | 20.17      | 0.90         | 0.70       | Average |



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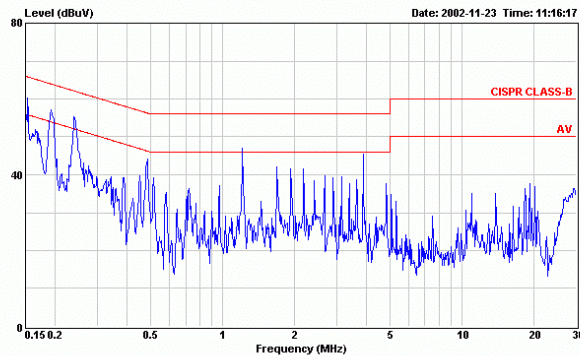
No.53-11, Tin-fu Tsun, Lin-kou Hsiang,  
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Email:ttenc@ttenc.com.tw



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Email:ttenc@ttenc.com.tw

Data#: 13 File#: D:\Lg.emi



Site : No.4 Shielded room  
Condition : CISPR CLASS-B KNW-407(S/R3) LINE  
EUT : Plasma Monitor M/N:MU-42PZ41V  
POWER : 120Vac / 60Hz(24°C / 66%)  
MEMO : 640\*480 / 75Hz;38KHz(D-SUB)

Data#: 14 File#: D:\Lg.emi

Date: 2002-11-23 Time: 11:17:18

Site : No.4 Shielded room  
Condition : CISPR CLASS-B KNW-407(S/R3) LINE  
EUT : Plasma Monitor M/N:MU-42PZ41V  
POWER : 120Vac / 60Hz(24°C / 66%)  
MEMO : 640\*480 / 75Hz;38KHz(D-SUB)

|   | Freq   | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Remark |
|---|--------|-------|------------|------------|------------|--------------|------------|--------|
|   | MHz    | dBuV  | dB         | dBuV       | dBuV       | dB           | dB         |        |
| 1 | 0.150  | 53.75 | -12.25     | 66.00      | 53.15      | 0.40         | 0.20       | QP     |
| 2 | 0.192  | 56.09 | -7.85      | 63.94      | 55.69      | 0.20         | 0.20       | QP     |
| 3 | 0.241  | 53.80 | -8.27      | 62.07      | 53.40      | 0.20         | 0.20       | QP     |
| 4 | 0.483  | 43.44 | -12.85     | 56.29      | 42.84      | 0.40         | 0.20       | QP     |
| 5 | 1.208  | 46.01 | -9.99      | 56.00      | 45.21      | 0.40         | 0.40       | QP     |
| 6 | 3.871  | 45.02 | -10.98     | 56.00      | 44.22      | 0.40         | 0.40       | QP     |
| 7 | 19.253 | 34.92 | -25.08     | 60.00      | 33.32      | 0.90         | 0.70       | QP     |

Data#: 15 File#: D:\Lg.emi

|   | Freq   | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Remark  |
|---|--------|-------|------------|------------|------------|--------------|------------|---------|
|   | MHz    | dBuV  | dB         | dBuV       | dBuV       | dB           | dB         |         |
| 1 | 0.150  | 48.47 | -7.53      | 56.00      | 47.87      | 0.40         | 0.20       | Average |
| 2 | 0.191  | 46.13 | -7.84      | 53.97      | 45.73      | 0.20         | 0.20       | Average |
| 3 | 0.241  | 42.21 | -9.86      | 52.07      | 41.81      | 0.20         | 0.20       | Average |
| 4 | 0.483  | 32.01 | -14.28     | 46.29      | 31.41      | 0.40         | 0.20       | Average |
| 5 | 1.208  | 33.39 | -12.61     | 46.00      | 32.59      | 0.40         | 0.40       | Average |
| 6 | 3.871  | 32.57 | -13.43     | 46.00      | 31.77      | 0.40         | 0.40       | Average |
| 7 | 19.253 | 20.45 | -29.55     | 50.00      | 18.85      | 0.90         | 0.70       | Average |



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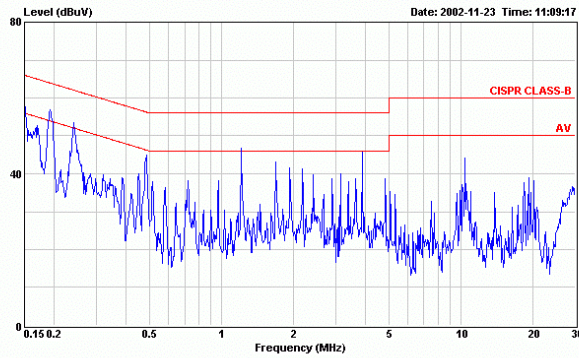
No.53-11, Tin-fu Tsun, Lin-kou Hsiang,  
Taipei Country, Taiwan, R.O.C.  
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Email:tttemc@tttemc.com.tw

Data#: 7 File#: D:\Lg.emi



Site : No.4 Shielded room  
Condition : CISPR CLASS-B KNW-407(S/R3) NEUTRAL  
EUT : Plasma Monitor M/N:MU-42PZ41V  
POWER : 120Vac / 60Hz(24°C / 66%)  
MEMO : 1024\*768 / 75Hz;60KHz(D-SUB)

Data#: 8 File#: D:\Lg.emi

Date: 2002-11-23 Time: 11:10:11

Site : No.4 Shielded room  
Condition : CISPR CLASS-B KNW-407(S/R3) NEUTRAL  
EUT : Plasma Monitor M/N:MU-42PZ41V  
POWER : 120Vac / 60Hz(24°C / 66%)  
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 | 0.150  | 54.88 | -11.12     | 66.00      | 54.28      | 0.40         | 0.20       | QP     |
| 2 | 0.191  | 55.77 | -8.20      | 63.97      | 55.37      | 0.20         | 0.20       | QP     |
| 3 | 0.242  | 51.78 | -10.26     | 62.04      | 51.38      | 0.20         | 0.20       | QP     |
| 4 | 0.484  | 44.02 | -12.25     | 56.27      | 43.42      | 0.40         | 0.20       | QP     |
| 5 | 1.209  | 45.13 | -10.87     | 56.00      | 44.33      | 0.40         | 0.40       | QP     |
| 6 | 3.870  | 45.66 | -10.34     | 56.00      | 44.86      | 0.40         | 0.40       | QP     |
| 7 | 19.251 | 36.80 | -23.20     | 60.00      | 35.20      | 0.90         | 0.70       | QP     |

Data#: 9 File#: D:\Lg.emi

|   | Freq   | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Remark  |
|---|--------|-------|------------|------------|------------|--------------|------------|---------|
|   | MHz    | dBuV  | dB         | dBuV       | dBuV       | dB           | dB         |         |
| 1 | 0.150  | 48.45 | -7.55      | 56.00      | 47.85      | 0.40         | 0.20       | Average |
| 2 | 0.191  | 47.86 | -6.11      | 53.97      | 47.46      | 0.20         | 0.20       | Average |
| 3 | 0.242  | 39.35 | -12.69     | 52.04      | 38.95      | 0.20         | 0.20       | Average |
| 4 | 0.484  | 32.00 | -14.27     | 46.27      | 31.40      | 0.40         | 0.20       | Average |
| 5 | 1.209  | 31.96 | -14.04     | 46.00      | 31.16      | 0.40         | 0.40       | Average |
| 6 | 3.870  | 33.20 | -12.80     | 46.00      | 32.40      | 0.40         | 0.40       | Average |
| 7 | 19.251 | 22.98 | -27.02     | 50.00      | 21.38      | 0.90         | 0.70       | Average |



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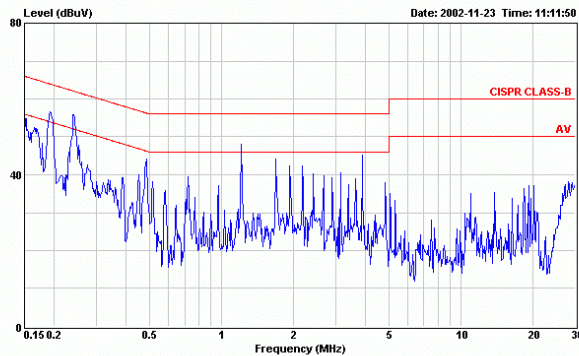
No.53-11, Tin-fu Tsun, Lin-kou Hsiang,  
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Email:tttemc@tttemc.com.tw

Data#: 10 File#: D:\Lg.emi



Site : No.4 Shielded room  
Condition : CISPR CLASS-B KNW-407(S/R3) LINE  
EUT : Plasma Monitor M/N:MU-42PZ41V  
POWER : 120Vac / 60Hz(24°C / 66%)  
MEMO : 1024\*768 / 75Hz;60KHz(D-SUB)

Data#: 11 File#: D:\Lg.emi

Date: 2002-11-23 Time: 11:12:48

Site : No.4 Shielded room  
Condition : CISPR CLASS-B KNW-407(S/R3) LINE  
EUT : Plasma Monitor M/N:MU-42PZ41V  
POWER : 120Vac / 60Hz(24°C / 66%)  
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 | 0.150  | 54.66 | -11.34     | 66.00      | 54.06      | 0.40         | 0.20       | QP     |
| 2 | 0.191  | 55.77 | -8.20      | 63.97      | 55.37      | 0.20         | 0.20       | QP     |
| 3 | 0.240  | 54.08 | -8.00      | 62.08      | 53.68      | 0.20         | 0.20       | QP     |
| 4 | 0.483  | 43.54 | -12.75     | 56.29      | 42.94      | 0.40         | 0.20       | QP     |
| 5 | 1.209  | 46.43 | -9.57      | 56.00      | 45.63      | 0.40         | 0.40       | QP     |
| 6 | 3.871  | 44.82 | -11.18     | 56.00      | 44.02      | 0.40         | 0.40       | QP     |
| 7 | 19.251 | 35.35 | -24.65     | 60.00      | 33.75      | 0.90         | 0.70       | QP     |

Data#: 12 File#: D:\Lg.emi

|   | Freq   | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Remark  |
|---|--------|-------|------------|------------|------------|--------------|------------|---------|
|   | MHz    | dBuV  | dB         | dBuV       | dBuV       | dB           | dB         |         |
| 1 | 0.150  | 48.72 | -7.28      | 56.00      | 48.12      | 0.40         | 0.20       | Average |
| 2 | 0.191  | 46.97 | -7.00      | 53.97      | 46.57      | 0.20         | 0.20       | Average |
| 3 | 0.240  | 42.00 | -10.08     | 52.08      | 41.60      | 0.20         | 0.20       | Average |
| 4 | 0.483  | 31.71 | -14.58     | 46.29      | 31.11      | 0.40         | 0.20       | Average |
| 5 | 1.209  | 33.12 | -12.88     | 46.00      | 32.32      | 0.40         | 0.40       | Average |
| 6 | 3.871  | 32.31 | -13.69     | 46.00      | 31.51      | 0.40         | 0.40       | Average |
| 7 | 19.251 | 21.69 | -28.31     | 50.00      | 20.09      | 0.90         | 0.70       | Average |



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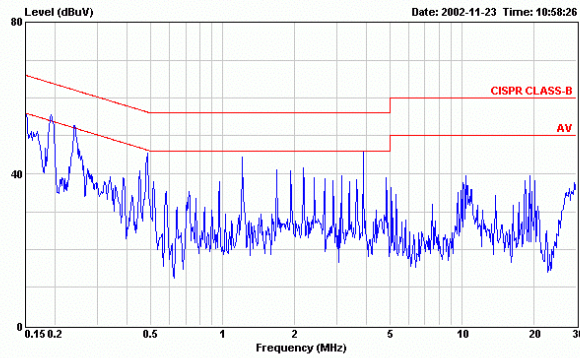
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Email:ttenc@ttenc.com.tw

Data#: 4 File#: D:\Lg.emi



Site : No.4 Shielded room  
Condition : CISPR CLASS-B KNW-407(S/R3) NEUTRAL  
EUT : Plasma Monitor M/N:MU-42P241V  
POWER : 120Vac / 60Hz(24°C / 66%)  
MEMO : 1280\*1024 / 60Hz;64KHz(D-SUB)

Data#: 5 File#: D:\Lg.emi

Date: 2002-11-23 Time: 10:59:51

Site : No.4 Shielded room  
Condition : CISPR CLASS-B KNW-407(S/R3) NEUTRAL  
EUT : Plasma Monitor M/N:MU-42P241V  
POWER : 120Vac / 60Hz(24°C / 66%)  
MEMO : 1280\*1024 / 60Hz;64KHz(D-SUB)

|   | Freq   | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Remark |
|---|--------|-------|------------|------------|------------|--------------|------------|--------|
|   | MHz    | dBuV  | dB         | dBuV       | dBuV       | dB           | dB         |        |
| 1 | 0.150  | 54.64 | -11.36     | 66.00      | 54.04      | 0.40         | 0.20       | QP     |
| 2 | 0.192  | 55.74 | -8.20      | 63.94      | 55.34      | 0.20         | 0.20       | QP     |
| 3 | 0.240  | 51.06 | -11.02     | 62.08      | 50.66      | 0.40         | 0.20       | QP     |
| 4 | 0.483  | 44.27 | -12.02     | 56.29      | 43.67      | 0.40         | 0.20       | QP     |
| 5 | 1.209  | 44.85 | -11.15     | 56.00      | 44.05      | 0.40         | 0.40       | QP     |
| 6 | 3.871  | 45.56 | -10.44     | 56.00      | 44.76      | 0.40         | 0.40       | QP     |
| 7 | 19.253 | 36.62 | -23.38     | 60.00      | 35.02      | 0.90         | 0.70       | QP     |

Data#: 6 File#: D:\Lg.emi

|   | Freq   | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Remark  |
|---|--------|-------|------------|------------|------------|--------------|------------|---------|
|   | MHz    | dBuV  | dB         | dBuV       | dBuV       | dB           | dB         |         |
| 1 | 0.150  | 48.39 | -7.61      | 56.00      | 47.79      | 0.40         | 0.20       | Average |
| 2 | 0.192  | 47.66 | -6.28      | 53.94      | 47.26      | 0.20         | 0.20       | Average |
| 3 | 0.240  | 39.24 | -12.84     | 52.08      | 38.84      | 0.20         | 0.20       | Average |
| 4 | 0.483  | 32.25 | -14.04     | 46.29      | 31.65      | 0.40         | 0.20       | Average |
| 5 | 1.209  | 31.85 | -14.15     | 46.00      | 31.05      | 0.40         | 0.40       | Average |
| 6 | 3.871  | 32.64 | -13.36     | 46.00      | 31.84      | 0.40         | 0.40       | Average |
| 7 | 19.253 | 21.92 | -28.08     | 50.00      | 20.32      | 0.90         | 0.70       | Average |



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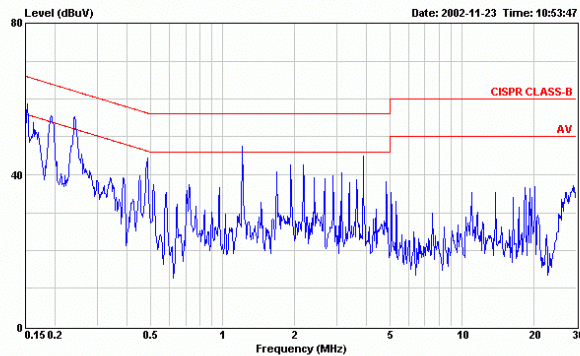
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Email:ttenc@ttenc.com.tw

Data#: 1 File#: D:\Lg.emi



Site : No.4 Shielded room  
Condition : CISPR CLASS-B KNW-407(S/R3) LINE  
EUT : Plasma Monitor M/N:MU-42P241V  
POWER : 120Vac / 60Hz(24°C / 66%)  
MEMO : 1280\*1024 / 60Hz;64KHz(D-SUB)

Data#: 2 File#: D:\Lg.emi

Date: 2002-11-23 Time: 10:56:09

Site : No.4 Shielded room  
Condition : CISPR CLASS-B KNW-407(S/R3) LINE  
EUT : Plasma Monitor M/N:MU-42P241V  
POWER : 120Vac / 60Hz(24°C / 66%)  
MEMO : 1280\*1024 / 60Hz;64KHz(D-SUB)

|   | Freq   | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Remark |
|---|--------|-------|------------|------------|------------|--------------|------------|--------|
|   | MHz    | dBuV  | dB         | dBuV       | dBuV       | dB           | dB         |        |
| 1 | 0.150  | 53.94 | -12.06     | 66.00      | 53.34      | 0.40         | 0.20       | QP     |
| 2 | 0.193  | 55.53 | -8.39      | 63.92      | 55.13      | 0.20         | 0.20       | QP     |
| 3 | 0.241  | 53.74 | -8.31      | 62.05      | 53.34      | 0.20         | 0.20       | QP     |
| 4 | 0.483  | 43.62 | -12.67     | 56.29      | 43.02      | 0.40         | 0.20       | QP     |
| 5 | 1.209  | 46.11 | -9.89      | 56.00      | 45.31      | 0.40         | 0.40       | QP     |
| 6 | 3.870  | 45.46 | -10.54     | 56.00      | 44.66      | 0.40         | 0.40       | QP     |
| 7 | 19.251 | 35.13 | -24.87     | 60.00      | 33.53      | 0.90         | 0.70       | QP     |

Data#: 3 File#: D:\Lg.emi

|   | Freq   | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Remark  |
|---|--------|-------|------------|------------|------------|--------------|------------|---------|
|   | MHz    | dBuV  | dB         | dBuV       | dBuV       | dB           | dB         |         |
| 1 | 0.150  | 48.51 | -7.49      | 56.00      | 47.91      | 0.40         | 0.20       | Average |
| 2 | 0.193  | 46.89 | -7.03      | 53.92      | 46.49      | 0.20         | 0.20       | Average |
| 3 | 0.241  | 41.68 | -10.38     | 52.06      | 41.28      | 0.20         | 0.20       | Average |
| 4 | 0.483  | 31.75 | -14.54     | 46.29      | 31.15      | 0.40         | 0.20       | Average |
| 5 | 1.209  | 33.15 | -12.85     | 46.00      | 32.35      | 0.40         | 0.40       | Average |
| 6 | 3.870  | 32.59 | -13.41     | 46.00      | 31.79      | 0.40         | 0.40       | Average |
| 7 | 19.251 | 20.74 | -29.26     | 50.00      | 19.14      | 0.90         | 0.70       | Average |



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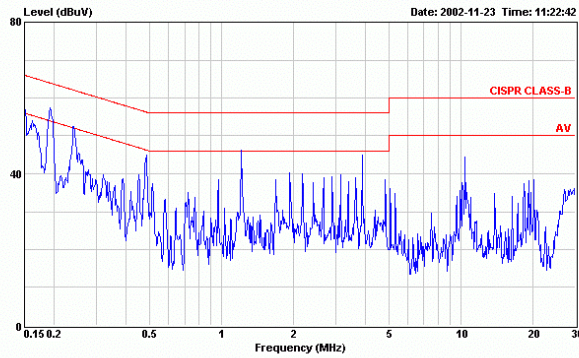
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Data#: 19 File#: D:\Lg.emi



Site : No.4 Shielded room  
Condition : CISPR CLASS-B KNW-407(S/R3) NEUTRAL  
EUT : Plasma Monitor M/N:MU-42PZ41V  
POWER : 120Vac / 60Hz(24°C / 66%)  
MEMO : 800\*600 / 60Hz;38KHz(DVI)

Data#: 20 File#: D:\Lg.emi

Date: 2002-11-23 Time: 11:26:11

Site : No.4 Shielded room  
Condition : CISPR CLASS-B KNW-407(S/R3) NEUTRAL  
EUT : Plasma Monitor M/N:MU-42PZ41V  
POWER : 120Vac / 60Hz(24°C / 66%)  
MEMO : 800\*600 / 60Hz;38KHz(DVI)

|   | Freq   | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Remark |
|---|--------|-------|------------|------------|------------|--------------|------------|--------|
|   | MHz    | dBuV  | dB         | dBuV       | dBuV       | dB           | dB         |        |
| 1 | 0.150  | 53.05 | -12.95     | 66.00      | 52.45      | 0.40         | 0.20       | QP     |
| 2 | 0.192  | 56.17 | -7.80      | 63.97      | 55.77      | 0.20         | 0.20       | QP     |
| 3 | 0.242  | 50.84 | -11.20     | 62.04      | 50.44      | 0.20         | 0.20       | QP     |
| 4 | 0.481  | 43.40 | -12.91     | 56.31      | 42.80      | 0.40         | 0.20       | QP     |
| 5 | 1.209  | 44.71 | -11.29     | 56.00      | 43.91      | 0.40         | 0.40       | QP     |
| 6 | 3.871  | 45.34 | -10.66     | 56.00      | 44.54      | 0.40         | 0.40       | QP     |
| 7 | 19.252 | 36.78 | -23.22     | 60.00      | 35.18      | 0.90         | 0.70       | QP     |

Data#: 21 File#: D:\Lg.emi

|   | Freq   | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Remark  |
|---|--------|-------|------------|------------|------------|--------------|------------|---------|
|   | MHz    | dBuV  | dB         | dBuV       | dBuV       | dB           | dB         |         |
| 1 | 0.150  | 48.18 | -7.82      | 56.00      | 47.58      | 0.40         | 0.20       | Average |
| 2 | 0.192  | 46.54 | -7.43      | 53.97      | 46.14      | 0.20         | 0.20       | Average |
| 3 | 0.242  | 39.77 | -12.27     | 52.04      | 39.37      | 0.20         | 0.20       | Average |
| 4 | 0.481  | 33.00 | -13.31     | 46.31      | 32.40      | 0.40         | 0.20       | Average |
| 5 | 1.209  | 32.67 | -13.33     | 46.00      | 31.87      | 0.40         | 0.40       | Average |
| 6 | 3.871  | 34.02 | -11.98     | 46.00      | 33.22      | 0.40         | 0.40       | Average |
| 7 | 19.252 | 23.93 | -26.07     | 50.00      | 22.33      | 0.90         | 0.70       | Average |



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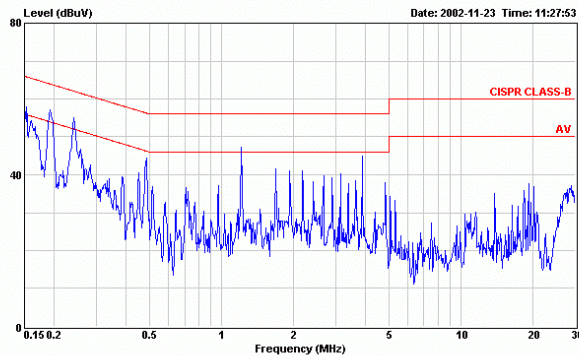
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TAIWAN TOKIN EMC ENG. CORP.  
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Data#: 22 File#: D:\Lg.emi



Site : No.4 Shielded room  
Condition : CISPR CLASS-B KNW-407(S/R3) LINE  
EUT : Plasma Monitor M/N:MU-42PZ41V  
POWER : 120Vac / 60Hz(24°C / 66%)  
MEMO : 800\*600 / 60Hz;38KHz(DVI)

Data#: 23 File#: D:\Lg.emi

Date: 2002-11-23 Time: 11:28:49

Site : No.4 Shielded room  
Condition : CISPR CLASS-B KNW-407(S/R3) LINE  
EUT : Plasma Monitor M/N:MU-42PZ41V  
POWER : 120Vac / 60Hz(24°C / 66%)  
MEMO : 800\*600 / 60Hz;38KHz(DVI)

|   | Freq   | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Remark |
|---|--------|-------|------------|------------|------------|--------------|------------|--------|
|   | MHz    | dBuV  | dB         | dBuV       | dBuV       | dB           | dB         |        |
| 1 | 0.150  | 53.86 | -12.14     | 66.00      | 53.26      | 0.40         | 0.20       | QP     |
| 2 | 0.192  | 56.07 | -7.90      | 63.97      | 55.67      | 0.20         | 0.20       | QP     |
| 3 | 0.242  | 53.47 | -8.57      | 62.04      | 53.07      | 0.20         | 0.20       | QP     |
| 4 | 0.481  | 42.74 | -13.57     | 56.31      | 42.14      | 0.40         | 0.20       | QP     |
| 5 | 1.209  | 45.97 | -10.03     | 56.00      | 45.17      | 0.40         | 0.40       | QP     |
| 6 | 3.870  | 45.12 | -10.88     | 56.00      | 44.32      | 0.40         | 0.40       | QP     |
| 7 | 19.253 | 34.97 | -25.03     | 60.00      | 33.37      | 0.90         | 0.70       | QP     |

Data#: 24 File#: D:\Lg.emi

|   | Freq   | Level | Over Limit | Limit Line | Read Level | Probe Factor | Cable Loss | Remark  |
|---|--------|-------|------------|------------|------------|--------------|------------|---------|
|   | MHz    | dBuV  | dB         | dBuV       | dBuV       | dB           | dB         |         |
| 1 | 0.150  | 47.91 | -8.09      | 56.00      | 47.31      | 0.40         | 0.20       | Average |
| 2 | 0.192  | 45.38 | -8.59      | 53.97      | 44.98      | 0.20         | 0.20       | Average |
| 3 | 0.242  | 42.35 | -9.69      | 52.04      | 41.95      | 0.20         | 0.20       | Average |
| 4 | 0.481  | 32.36 | -13.95     | 46.31      | 31.76      | 0.40         | 0.20       | Average |
| 5 | 1.209  | 34.04 | -11.96     | 46.00      | 33.24      | 0.40         | 0.40       | Average |
| 6 | 3.870  | 33.66 | -12.34     | 46.00      | 32.86      | 0.40         | 0.40       | Average |
| 7 | 19.253 | 22.10 | -27.90     | 50.00      | 20.50      | 0.90         | 0.70       | Average |