



FCC TEST REPORT

for

PART 15, SUBPART B CLASS B

Equipment : COLOR MONITOR

MODEL NO. : FFT995SKHK, FFT9905SKHKKW

TRADE : MITSUBISHI
NAME

F C C I D : H79DB-995

Filing Type : Original Grant

APPLICANT : **DELTA ELECTRONIES, INC.**

No. 3, Tung Yuan Road, Chungli Industrial Zone,
Taoyuan Hsien, Taiwan R.O.C.

- The test result refers exclusively to the test presented test model / sample.
- Without the written authorization of the test lab., the Test Report may not be copied.

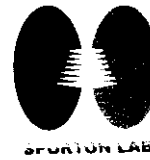
SPORTON INTERNATIONAL INC.

6F, No. 106, Hsin Tai Wu Rd., Sec. 1, Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

EXHIBIT F

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CERTIFICATE OF COMPLIANCE

for

FCC PART 15, SUBPART B CLASS B

Equipment : COLOR MONITOR

MODEL NO. : FFT9905SKHK/FFT9905SKHKW

TRADE : MTISUBISHI
NAME

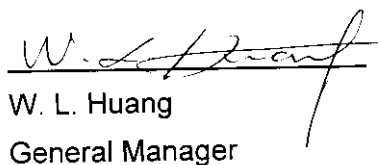
F C C I D : H79DB-995

APPLICANT : **DELTA ELECTRONIES, INC.**

No. 3, Tung Yuan Road, Chungli Industrial Zone,
Taoyuan Hsien, Taiwan R.O.C.

I HEREBY CERTIFY THAT :

The measurement shown in this report were made in accordance with the procedures given in **ANSI C63.4 -1992** and the energy emitted by this equipment was **passed** both radiated and conducted emissions CLASS B limits. Testing was carried out on MAR. 30, 1998 at **SPORTON International Inc.** in LIN KOU.

 Apr 22, 1998
W. L. Huang
General Manager

SPORTON International Inc.

6F, No. 106, Hsin Tai Wu Rd., Sec. 1, Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

1. GENERAL DESCRIPTION OF EQUIPMENT UNDER TEST

1.1. APPLICANT

DELTA ELECTRONIES, INC.

No. 3, Tung Yuan Road, Chungli Industrial Zone,
Taoyuan Hsien, Taiwan R.O.C.

1.2. MANUFACTURER

Same as 1.1

1.3. BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

EQUIPMENT : COLOR MONITOR

MODEL NO. : FFT9905SKHK, FFT9905SKHKW

FCC ID:H79DB-995

TRADE NAME : MITSUBISHI

15-pin DATA CABLE : Shielded

BNC DATA CABLE: Shielded

Serial DATA CABLE: Shielded

Remark: Two ferrite cores are added on the 15-pin video data cable at two end.

A ferrite core is added on the BNC data cable at PC end.

A ferrite core is added on the serial data cable at EUT end.

POWER SUPPLY TYPE : Switching

POWER CORD : Non-shielded

1.4. FEATURE OF EQUIPMENT UNDER TEST

- CRT: 19", 0.25mm, 90 degree
- Resolution: 1280x1024 NI
- Horizontal Sync.: 31.5 to 91KHz
- Vertical Sync.:60 to 85Hz
- Reponse video: 100Mhz nominal
- Signal cable: 15-pin D-type/BNC connector
- Power input voltage frequency: 100 to 240VAC, 60/50Hz

2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST

2.1. TEST MANNER

- a. The EUT has been associated with personal computer and peripherals pursuant to ANSI C63.4-1992 and configuration operated in a manner which tended to maximize its emission characteristics in a typical application.
- b. The DELL keyboard, DELTA monitor, HP printer, PRIMAX mouse and ACEEX modem were connected to the LEO PC.
- c. The 15-PIN cable and BNC cable were tested in order to find the maximum emissions. Since the BNC cable generates the worst case, the mode was used as the final data.
- d. The following display resolution were investigated during the compliance test:
 1. Horizontal frequency (640x480 to 1280x1024, 31.5Khz to 91KHz)
 2. Vertical frequency (60Hz to 85Hz)
- e. According to the above tests, we listed the following display modes as the worst cases:
 1. 1024x768 (non-interlanced 69KHz), refresh rate 75Hz.
 2. 1280x1024 (non-interlanced 91KHz), refresh rate 85Hz.
- f. Frequency range investigated: Conduction 450 KHz to 30 MHz, Radiation 30 MHz to 2000 MHz.

2.2. DESCRIPTION OF TEST SYSTEM

Support Device 1. --- PERSONAL COMPUTER (LEO)

FCC ID : N/A
Model No. : P55T2P4
Serial No. : SP1033
Data Cable : Shielded, 360 degree via metal backshells
Power Cord : Non-shielded
Power Supply Type : Switching

Remark: This support device was tested to comply with FCC standards and authorized under a declaration of conformity.

Support Device 2. --- MODEM (ACEEX)

FCC ID :IFAXDM1414
Model No. :DM1414
Serial No. :SP0016
Data Cable :Shielded, 360 degree via metal backshells
Power Supply Type :Linear

Support Device 3. --- PRINTER (HP)

FCC ID :B94C2642X
Model No. :DESKJET 400
Serial No. :SP0003
Data Cable :Shielded, 360 degree via metal backshells
Power Supply Type :Linear

Support Device 4. --- VGA CARD (JOYTECH)

FCC ID :JDF-765PCI-001
Model No. :988
Serial No. :SP1046
Data Cable :Shielded, 360 degree via metal backshells

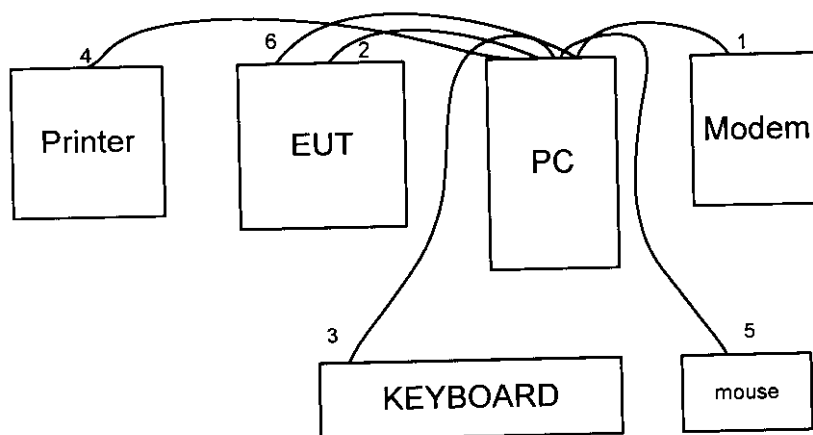
Support Device 5. --- KEYBOARD (DELL)

FCC ID :GYUM92SK
Model No. :AT101
Serial No. :SP1011
Data Cable :Shielded, 360 degree via metal backshells

Support Device 6. --- MOUSE (PRIMAX)

FCC ID :EMJMUSJQ
Model No. :MUS9J
Serial No. :SP1036
Data Cable :Shielded, 360 degree via metal backshells

2.3. CONNECTION DIAGRAM OF TEST SYSTEM



1. The I/O cable is connected to the support device 2.
2. The I/O cable is connected to the EUT.
3. The I/O cable is connected to the support device 5.
4. The I/O cable is connected to the support device 3.
5. The I/O cable is connected to the support device 6.
6. The serial cable is connected to the support device 1.

3. TEST SOFTWARE

An executive program, FCC.EXE, which generates a complete line of continuously repeating " H " pattern is used as the test software.

The program was executed as follows :

- a. Turn on the power of all equipment.
- b. The PC reads the test program from the floppy disk drive and runs it.
- c. The PC sends " H " messages to the EUT, and the EUT displays " H " patterns on the screen.
- d. The PC sends " H " messages to the printer, then the printer prints them on the paper.
- e. The PC sends " H " messages to the modem.
- f. The PC sends " H " messages to the internal Hard Disk, then the hard disk reads and writes the message.
- g. Repeat the steps from b to f.

4. GENERAL INFORMATION OF TEST

4.1. TEST FACILITY

This test was carried out by SPORTON INTERNATIONAL INC. in an openarea test site.

Openarea Test Site Location : No. 30-1, Lin 6, Diing-Fwu Tsuen, Lin-Kou-Hsiang,
Taipei Hsien, Taiwan, R.O.C.

TEL : 886-2-2601-1640

FAX : 886-2-2601-1695

4.2. STANDARD FOR METHODS OF MEASUREMENT

ANSI C63.4-1992

4.3 .TEST IN COMPLIANCE WITH

FCC PART 15, SUBPART B CLASS B

4.4. FREQUENCY RANGE INVESTIGATED

- a. Conduction : from 450 KHz to 30 MHz
- b. Radiation : from 30 MHz to 2000 MHz

4.5. TEST DISTANCE

The test distance of radiated emission from antenna to EUT is 3M.

5. TEST OF CONDUCTED POWERLINE

Conducted Emissions were measured from 450 KHz to 30 MHz with a bandwidth of 9 KHz on the 115 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-1992 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in Figure 5-3. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

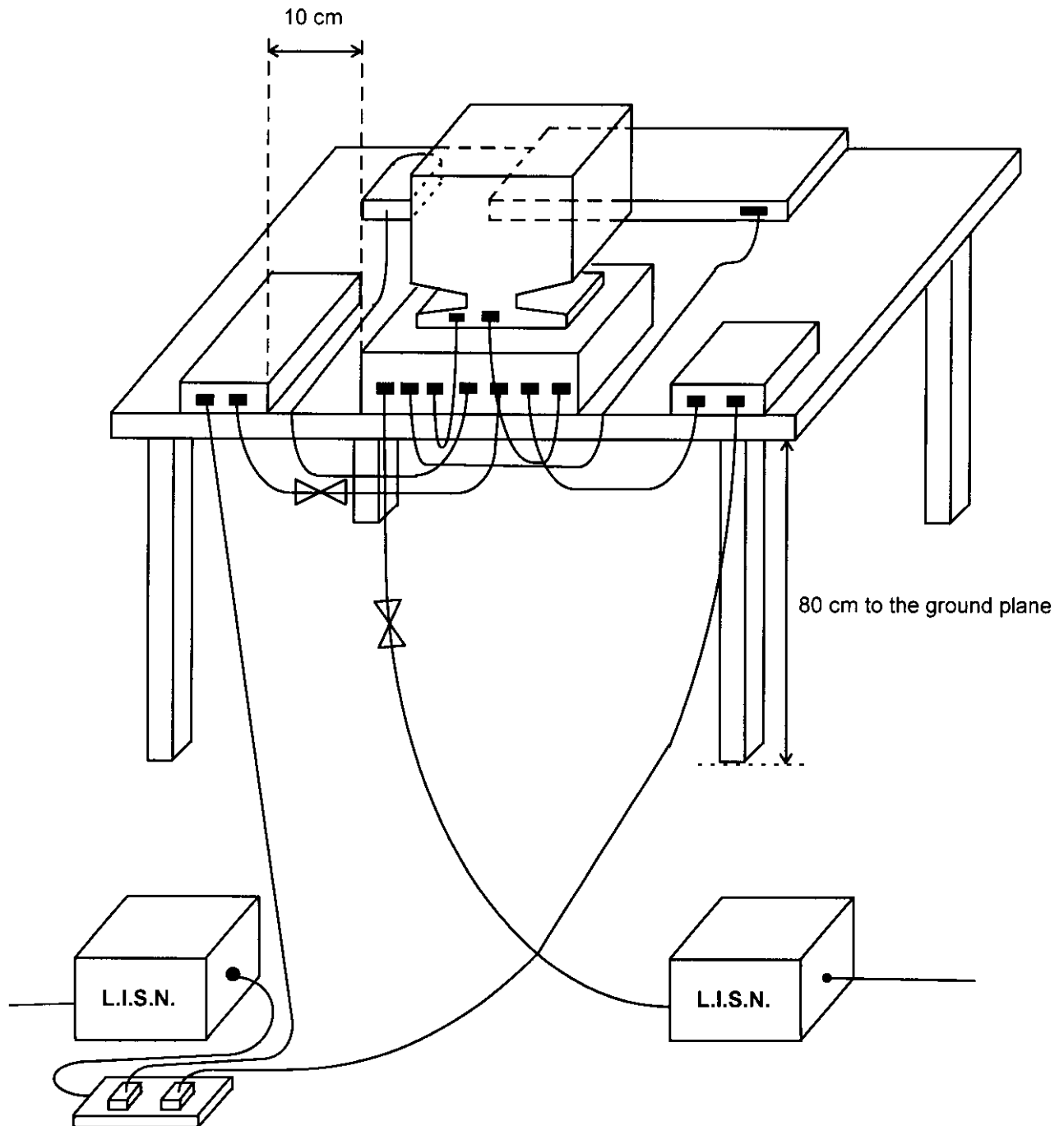
5.1. MAJOR MEASURING INSTRUMENTS

| | |
|-----------------|-----------|
| • Test Receiver | HP85462A |
| Attenuation | 0 dB |
| Start Frequency | 0.45 MHz |
| Stop Frequency | 30 MHz |
| Step MHz | 0.007 MHz |
| IF Bandwidth | 9 KHz |

5.2. TEST PROCEDURES

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room and was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connect to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm , 50 microhenry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 450 KHz to 30 MHz was searched.
- h. Set the test-receiver system (receiver HP85462A) to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- i. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported otherwise the emissions which do not have 6 dB margin will be retested on by one using the quasi-peak method and reported.

5.3. TYPICAL TEST SETUP LAYOUT OF CONDUCTED POWERLINE



5.4. TEST RESULT OF AC POWERLINE CONDUCTED EMISSION

- Frequency Range of Test : from 0.45 MHz to 30 MHz
- Temperature : 26 °C
- Relative Humidity :73% RH
- Measuring mode:1024x768 (non-interlaced 69Khz), 85Hz
- All emissions not reported here are more than 10 dB below the prescribed limit.
- Test Date : MAR. 30, 1998

The Conducted Emission test was passed at minimum margin

NEUTRAL 16.07MHz / 36.20dBuV.

| Frequency (MHz) | Line / Neutral | Meter Reading | | Limits | | Margin (dB) |
|----------------------|----------------|---------------|--------|----------|--------|------------------|
| | | (dBuV) | (uV) | (dBuV) | (uV) | |
| 16.07 | N | 36.20 | 64.57 | 48.00 | 251.19 | -11.80 |
| 18.20 | N | 32.80 | 43.65 | 48.00 | 251.19 | -15.20 |
| 21.45 | N | 34.70 | 54.33 | 48.00 | 251.19 | -13.30 |
| 10.07 | L | 33.30 | 46.24 | 48.00 | 251.19 | -14.70 |
| 14.46 | L | 29.80 | 30.90 | 48.00 | 251.19 | -18.20 |
| 20.77 | L | 32.10 | 40.27 | 48.00 | 251.19 | -15.90 |

Test Engineer :

Jones Jam

5.4.1 TEST RESULT OF AC POWERLINE CONDUCTED EMISSION

- Frequency Range of Test : from 0.45 MHz to 30 MHz
- Temperature : 26 °C
- Relative Humidity :73% RH
- Measuring mode: 1280x1024 (non-interlaced 91Khz), 85Hz
- All emissions not reported here are more than 10 dB below the prescribed limit.
- Test Date : MAR. 30, 1998

The Conducted Emission test was passed at minimum margin

LINE 21.24MHz / 38.60dBuV.

| Frequency (MHz) | Line / Neutral | Meter Reading | | Limits | | Margin (dB) |
|----------------------|----------------|---------------|--------|----------|--------|------------------|
| | | (dBuV) | (uV) | (dBuV) | (uV) | |
| 16.23 | N | 38.00 | 79.43 | 48.00 | 251.19 | -10.00 |
| 16.87 | N | 33.20 | 45.71 | 48.00 | 251.19 | -14.80 |
| 21.24 | N | 37.70 | 76.74 | 48.00 | 251.19 | -10.30 |
| 16.87 | L | 36.90 | 69.98 | 48.00 | 251.19 | -11.10 |
| 19.42 | L | 36.50 | 66.83 | 48.00 | 251.19 | -11.50 |
| 21.24 | L | 38.60 | 85.11 | 48.00 | 251.19 | -9.40 |

Test Engineer : 

6. TEST OF RADIATED EMISSION

Radiated emissions from 30 MHz to 2000MHz were measured with a bandwidth of 120 KHz according to the methods defines in ANSI C63.4-1992. The EUT was placed on a nonmetallic stand in the open-field site, 0.8 meter above the ground plane, as shown in Figure 6-3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

6.1. MAJOR MEASURING INSTRUMENTS

- RF Preselector
 - Attenuation 0 dB
 - RF Gain 20 dB
 - Signal Input Input 2 (for 20 MHz to 2 GHz)

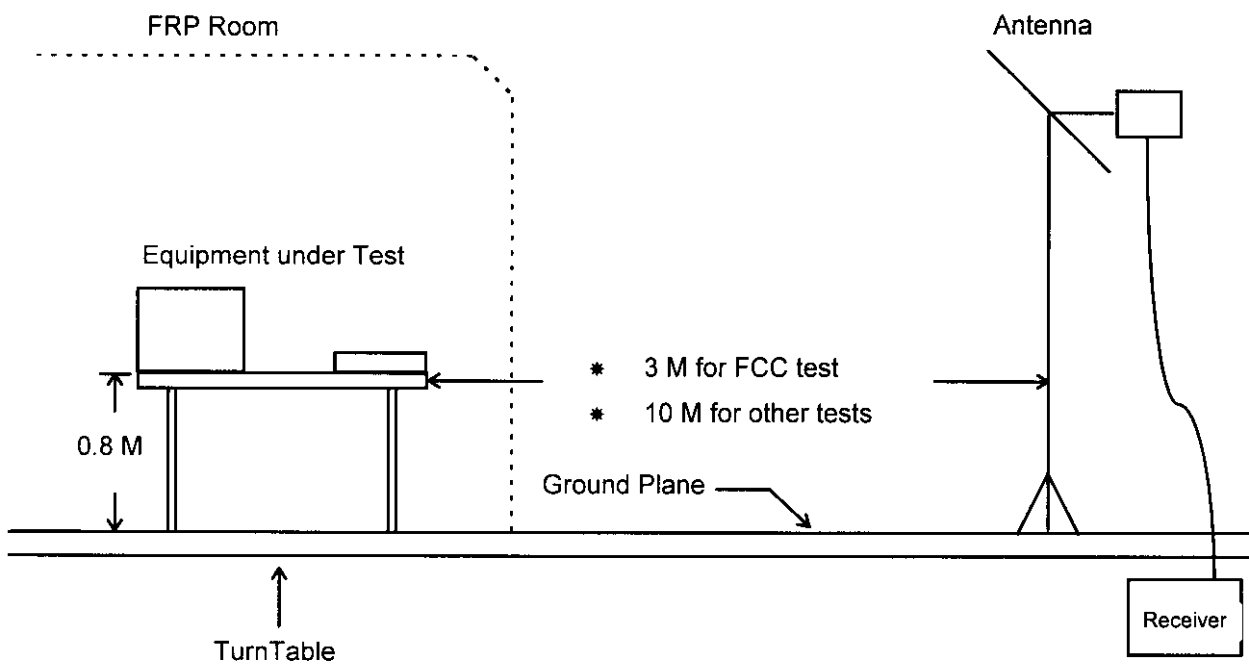
- Spectrum Analyzer 8568B/8594A
 - Attenuation 0 dB
 - Start Frequency 30 MHz
 - Stop Frequency 2000MHz
 - Resolution Bandwidth 1 MHz
 - Video Bandwidth 1 MHz
 - Signal Input Input 1 (for 9KHz to 2.9 GHz)

- Quasi-Peak Adapter
 - Resolution Bandwidth 120 KHz
 - Frequency Band 30 MHz to 1 GHz
 - Quasi-Peak Detector ON for Quasi-Peak Mode
OFF for Peak Mode

6.2. TEST PROCEDURES

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system (HP 8568B/8594A) to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported otherwise the emissions which do not have 6 dB margin will be repeated one by one using the quasi-peak method and reported.

6.3. TYPICAL TEST SETUP LAYOUT OF RADIATED EMISSION



6.4. TEST RESULT OF RADIATED EMISSION

- Equipment meets the technical specifications of 15.109
- Frequency Range of Test : from 30 MHz to 2000 MHz
- Test Distance : 3 M
- Temperature : 26 °C
- Relative Humidity :74% RH
- Measuring mode: 1024x768 (non-interlaced 69Khz), 85Hz
- Test Date :MAR. 26, 1998
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Sample Calculation at 330.66MHz
Corrected Reading = 18.65+ 3.15+ 10.98= 32.78(dBuV/m)

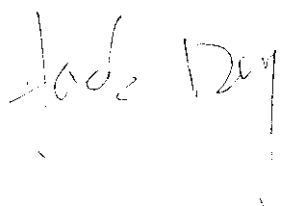
The Radiated Emission test was passed at minimum margin

Horizontal 36.27 MHz / 36.32dBuV

Antenna Height 4Meter , Turntable Degree 106°.

| Frequency (MHz) | Antenna Polarity | Cable Factor (dB) | Reading Loss (dB) | Reading (dBuV) | Limits (dBuV) | Emission (uV) | Level (dBuV) | Margin (uV) | Margin (dB) |
|----------------------|---------------------|---------------------------|---------------------------|---------------------|--------------------|--------------------|-------------------|------------------|------------------|
| 36.27 | H | -0.39 | 0.85 | 35.86 | 40.00 | 100 | 36.32 | 65.46 | -3.68 |
| 162.00 | V | 12.24 | 2.05 | 21.69 | 43.50 | 150 | 35.98 | 62.95 | -7.52 |
| 39.97 | V | 0.50 | 0.94 | 34.20 | 40.00 | 100 | 35.64 | 60.53 | -4.36 |
| 53.37 | H | 2.90 | 1.07 | 31.44 | 40.00 | 100 | 35.41 | 58.95 | -4.59 |
| 197.01 | V | 13.89 | 2.37 | 18.57 | 43.50 | 150 | 34.83 | 55.14 | -8.67 |
| 330.66 | V | 18.65 | 3.15 | 10.98 | 46.00 | 200 | 32.78 | 43.55 | -13.22 |

Test Engineer :



6.4.1 TEST RESULT OF RADIATED EMISSION

- Equipment meets the technical specifications of 15.109
- Frequency Range of Test : from 30 MHz to 2000 MHz
- Test Distance : 3 M
- Temperature : 26 °C
- Relative Humidity :74% RH
- Measuring mode: 1280x1024 (non-interlaced 91Khz), 85Hz
- Test Date :MAR. 26, 1998
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Sample Calculation at 160.53MHz
Corrected Reading = 12.25+ 2.02+ 20.95= 35.22(dBuV/m)

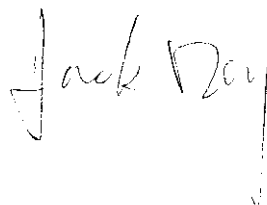
The Radiated Emission test was passed at minimum margin

Vertical 53.94 MHz / 36.59dBuV

Antenna Height 1 Meter , Turntable Degree 316°.

| Frequency (MHz) | Polarity | Antenna Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Limits (dBuV) | (uV) | Emission (dBuV) | Level (uV) | Margin (dB) |
|----------------------|----------|-----------------------------|-------------------------|---------------------|--------------------|--------|----------------------|-----------------|------------------|
| 117.49 | V | 10.33 | 1.67 | 24.72 | 43.50 | 150 | 36.73 | 68.63 | -6.77 |
| 53.94 | V | 2.98 | 1.09 | 32.52 | 40.00 | 100 | 36.59 | 67.53 | -3.41 |
| 65.91 | V | 5.22 | 1.20 | 30.06 | 40.00 | 100 | 36.48 | 66.68 | -3.52 |
| 71.04 | V | 5.70 | 1.22 | 29.36 | 40.00 | 100 | 36.28 | 65.16 | -3.72 |
| 132.31 | V | 10.90 | 1.83 | 23.33 | 43.50 | 150 | 36.05 | 63.46 | -7.45 |
| 160.53 | H | 12.25 | 2.02 | 20.95 | 43.50 | 150 | 35.22 | 57.68 | -8.28 |

Test Engineer :



7. ANTENNA FACTOR AND CABLE LOSS

| Frequency (Mhz) | Antenna Factor (dB) | Cable Loss (dB) |
|-------------------|-----------------------|-------------------|
| 30 | -2.20 | 0.80 |
| 35 | -0.70 | 0.82 |
| 40 | 0.51 | 0.94 |
| 45 | 1.30 | 1.00 |
| 50 | 2.39 | 1.00 |
| 55 | 3.14 | 1.11 |
| 60 | 4.40 | 1.20 |
| 65 | 5.14 | 1.20 |
| 70 | 5.59 | 1.20 |
| 75 | 6.11 | 1.30 |
| 80 | 7.10 | 1.40 |
| 85 | 7.53 | 1.40 |
| 90 | 8.22 | 1.40 |
| 95 | 8.80 | 1.40 |
| 100 | 9.36 | 1.50 |
| 110 | 10.11 | 1.60 |
| 120 | 10.41 | 1.70 |
| 130 | 10.74 | 1.80 |
| 140 | 11.42 | 1.91 |
| 150 | 11.91 | 2.01 |
| 160 | 12.25 | 2.01 |
| 170 | 12.22 | 2.21 |
| 180 | 13.02 | 2.30 |
| 190 | 13.50 | 2.30 |
| 200 | 14.05 | 2.40 |
| 220 | 14.31 | 2.40 |
| 240 | 15.11 | 2.50 |
| 260 | 17.11 | 2.61 |
| 280 | 17.50 | 2.70 |
| 300 | 17.99 | 3.11 |
| 320 | 18.10 | 3.10 |
| 340 | 19.13 | 3.20 |
| 360 | 20.14 | 3.30 |
| 380 | 21.81 | 3.40 |
| 400 | 22.29 | 3.60 |
| 450 | 22.40 | 3.80 |
| 500 | 22.31 | 4.10 |
| 550 | 23.42 | 4.40 |
| 600 | 24.01 | 4.60 |
| 650 | 25.11 | 5.00 |
| 700 | 26.00 | 5.30 |
| 750 | 26.51 | 5.51 |
| 800 | 27.10 | 5.70 |
| 850 | 27.51 | 5.90 |
| 900 | 27.90 | 6.20 |
| 950 | 30.01 | 6.30 |
| 1000 | 29.00 | 6.40 |

※ Remark: For frequency above 1000 MHz, we used low cable loss BNC cable to test.

8. LIST OF MEASURING INSTRUMENTS USED

| INSTRUMENT | Manufacturer | Model No. | Serial No. | Characteristic | Calibration date | Remark |
|--------------------------------|--------------|------------|------------|------------------|------------------|--------|
| Receiver RF Section | HP | 85462A | 3325A00108 | 9 KHz - 6.5 GHz | Oct. 22, 1997 | C |
| RF Section | HP | 85460A | 3308A00104 | 9 KHz - 6.5 GHz | Oct. 22, 1997 | C |
| LISN | EMCO | 3850/2 | 1035 | 50 ohm / 50 uH | Oct. 27, 1997 | C |
| LISN | KYORITSU | KNW-407 | 8-693-10 | 50 ohm / 50 uH | Oct. 04, 1997 | C |
| EMI Filter | CORCOM | MRI-2030 | N/A | 480 VAC / 30 A | N/A | C |
| EMI Filter | CORCOM | MRI-2030 | N/A | 480 VAC / 30 A | N/A | C |
| Spectrum Analyzer (Site 1) | HP | 8568B | 2732A04100 | 100Hz - 1500GHz | Jun 17, 1997 | R |
| Quasi-peak Adapter (site 1) | HP | 85650A | 2811A01116 | 9KHz -1 GHz | Jun. 17, 1997 | R |
| Amplifier (Site 1) | HP | 8447D | 2944A08291 | 0.1 MHz -1.3 GHz | Nov. 12, 1997 | R |
| Bilog Antenna (Site 1) | CHASE | CBL6111 | 1378 | 30 MHz -1000 MHz | Aug. 11, 1997 | R |
| Half-wave dipole antenna | EMCO | 3121C | 9705-1285 | 28M-1GHZ | May. 19, 1997 | R |
| Turn Table (site 1) | EMCO | 1060-1.211 | 9508-1805 | 0 ~ 360 degree | N/A | R |
| Antenna Mast (site 1) | EMCO | 1051-1.2 | 9502-1868 | 1 m- 4 m | N/A | R |

※ The column of Remark indicates that the instruments used for conduction ("C") or radiation ("R") test.