

SPORTON INTERNATIONAL INC.

FCC TEST REPORT



NVLAQ

Accredited by United States
Department of Commerce
National Institute of
Standards and Technology

Report No. : F892904

EXHIBIT B

FCC TEST REPORT

for

CISPR PUB. 22 CLASS B

Equipment : 2D + 3D + TVout
Model No. : Titan 5000
FCC ID : ILL145
Filing Type : Original Grant
Applicant : BRITEK ELECTRONICS CO., LTD.
8F-2, No. 146, SUNG CHIANG ROAD
TAIPEI, 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, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

SPORTON International Inc.

FCC ID : ILL145
Page No. : 1 of 29
Issued Date : Oct. 21, 1998

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CERTIFICATE OF COMPLIANCE

for

CISPR PUB. 22 CLASS B

Equipment : 2D + 3D + TVout
Model No. : Titan 5000
FCC ID : ILL145
Applicant : BRITEK ELECTRONICS CO., LTD.
8F-2, No. 146, SUNG CHIANG ROAD
TAIPEI, TAIWAN, R.O.C.

I **HEREBY** CERTIFY THAT :

The measurements shown in this test 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 emission class B limits. Testing was carried out on Sep. 30, 1998 at **SPORTON International Inc.** LAB in Nei Hwu.


Lenore Chang
President

SPORTON International Inc.

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

1. General Description of Equipment under Test

1.1. Applicant

BRITEK ELECTRONICS CO., LTD.
8F-2, No. 146, SUNG CHIANG ROAD.,
TAIPEI, TAIWAN, R.O.C.

1.2. Manufacturer

Same as 1.1.

1.3. Basic Description of Equipment under Test

Equipment	: 2D + 3D + TVout
Model No.	: Titan 5000
FCC ID	: ILL145
Trade Name	: BRITEK
DATA CABLE	: Shielded
S-Video data	: Non-Shielded
V-Video data	: Non-Shielded
Power Supply Type	: N/A
Power Cord	: N/A

1.4. Feature of Equipment under Test

- Highly Optimized 128-bit graphics engine
- Full featured 2D rasterizter for acceleration or bitblt, line draw, rectangle full, panning and hardware cursor
- Multi-monitor support
- Floating point triangle setup engine
- Single-cycle 3D architecture
- 128-bit with dual rendering pipelines
- Full AGP-2X implementation

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 HP Printer, ACEEX Modem, HITACHI Monitor, SONY TV, HONEYWELL PS/2 Keyboard, GENIUS PS/2 Mouse and EUT were connected to the FIC PC for EMI test.
- c. The following display resolution were investigated during the compliance test:
 - 1. Horizontal frequency (640x480 to 1,600x1,200, 31 KHz to 106 KHz)
 - 2. Vertical frequency (60 Hz to 85 Hz)
 - 3. 640 x 480 (31KHz/ 60Hz) TV mode.
- d. According to the above tests, we listed the following display modes as the worst cases:
 - 1. 640 x 480 (31KHz/ 60Hz) TV mode.
 - 2. 1,280x1,024 (non-interlaced 91 KHz), refresh rate 85 Hz.
 - 3. 1,600x1,1200 (non-interlaced 106 KHz), refresh rate 85 Hz.
- e. The V-video and S-video were tested in order to find the maximum emission. Since The S-video generates the worst case, the mode was used as the final data for TV mode.
- f. Frequency range investigated: conduction 150 KHz to 30 MHz, radiation 30 MHz to 2,000 MHz.

2.2. Description of Test System

Support Unit 1. -- Printer (HP)

FCC ID : DSI6XU2225
Model No. : 2225C
Power Supply Type : Linear
Power Cord : N/A
Serial No. : SP0024
Data Cable : Shielded, 360 degree via metal backshells

Support Unit 2. -- Modem (ACEEX)

FCC ID : IFAXDM1414
Model No. : DM1414
Power Supply Type : Linear
Power Cord : N/A
Serial No. : SP0025
Data Cable : Shielded, 360 degree via metal backshells

Support Unit 3. -- Monitor (HITACHI)

FCC ID : N/A
Model No. : CM803ET
Power Supply Type : Switching
Power Cord : N/A
Serial No. : SP0096
Data Cable : Shielded, 360 degree via metal backshells
Remark : This support device was tested to comply with FCC standards and authorized under a declaration of conformity.

Support Unit 4. -- TV (SONY)

Model No. : DVM-14N2E
Power Supply Type : Switching
Serial No. : SP0097
Data Cable : Shielded, 360 degree via metal backshells
S-Video data cable : Shielded
V-Video data cable : Non-Shielded

Support Unit 5. -- Personal Computer (FIC)

FCC ID : N/A
Model No. : P2L97
Power Supply Type : Switching
Power Cord : Non-Shielded
Serial No. : SP0006
Data Cable : Shielded, 360 degree via metal backshells
Remark : This support device was tested to comply with FCC standards and authorized under a declaration of conformity.

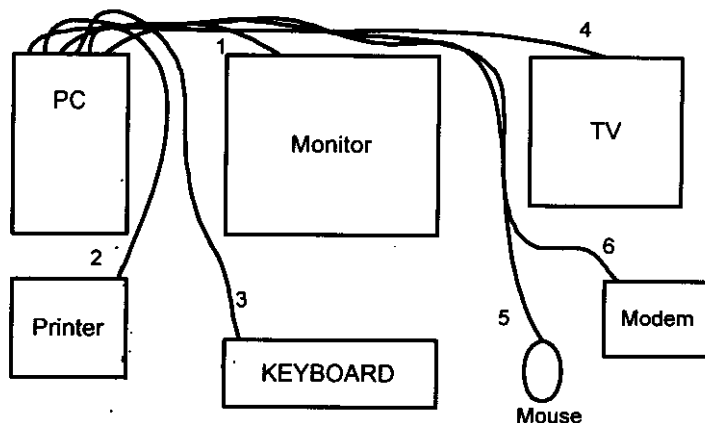
Support Unit 6. -- PS/2 Keyboard (Honeywell)

FCC ID : GJK101RX-6
Model No. : PC7XL-AA
Power Supply Type : N/A
Serial No. : SP0018
Data Cable : Shielded, 360 degree via metal backshells

Support Unit 7. -- PS/2 Mouse (Genius)

FCC ID : FSUGMZFC
Model No. : Netmouse
Power Supply Type : N/A
Serial No. : SP0022
Data Cable : Non-Shielded

2.3. Connection Diagram of Test System



1. The I/O cable is connected from EUT to the support device 3.
2. The I/O cable is connected from PC to the support device 1.
3. The I/O cable is connected from PC to the support device 6.
4. The I/O cable is connected from EUT to the support device 4.
5. The I/O cable is connected from PC to the support device 7.
6. The I/O cable is connected from PC to the support device 2.

3. Test Software

An executive program, WINFCC.EXE under WIN98, 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 monitor or/and TV, and the monitor or/and TV 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, and 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 SPORION International Inc. in an openarea test site.
Openarea Test Site Location : No. 3, Lane 238, Kang Lo Street, Nei Hwu District,
Taipei 11424, Taiwan, R.O.C.
TEL : 886-2-2631-9739
FAX : 886-2-2631-9740

4.2. Standard for Methods of Measurement

ANSI C63.4-1992

4.3. Test in Compliance with

CISPR PUB. 22

4.4. Frequency Range Investigated

- a. Conduction: from 150 kHz to 30 MHz
- b. Radiation : from 30 MHz to 2,000 MHz

4.5. Test Distance

The test distance of radiated emission from antenna to EUT is 10 M.

5. Test of Conducted Powerline

Conducted Emissions were measured from 150 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 section 5.3. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

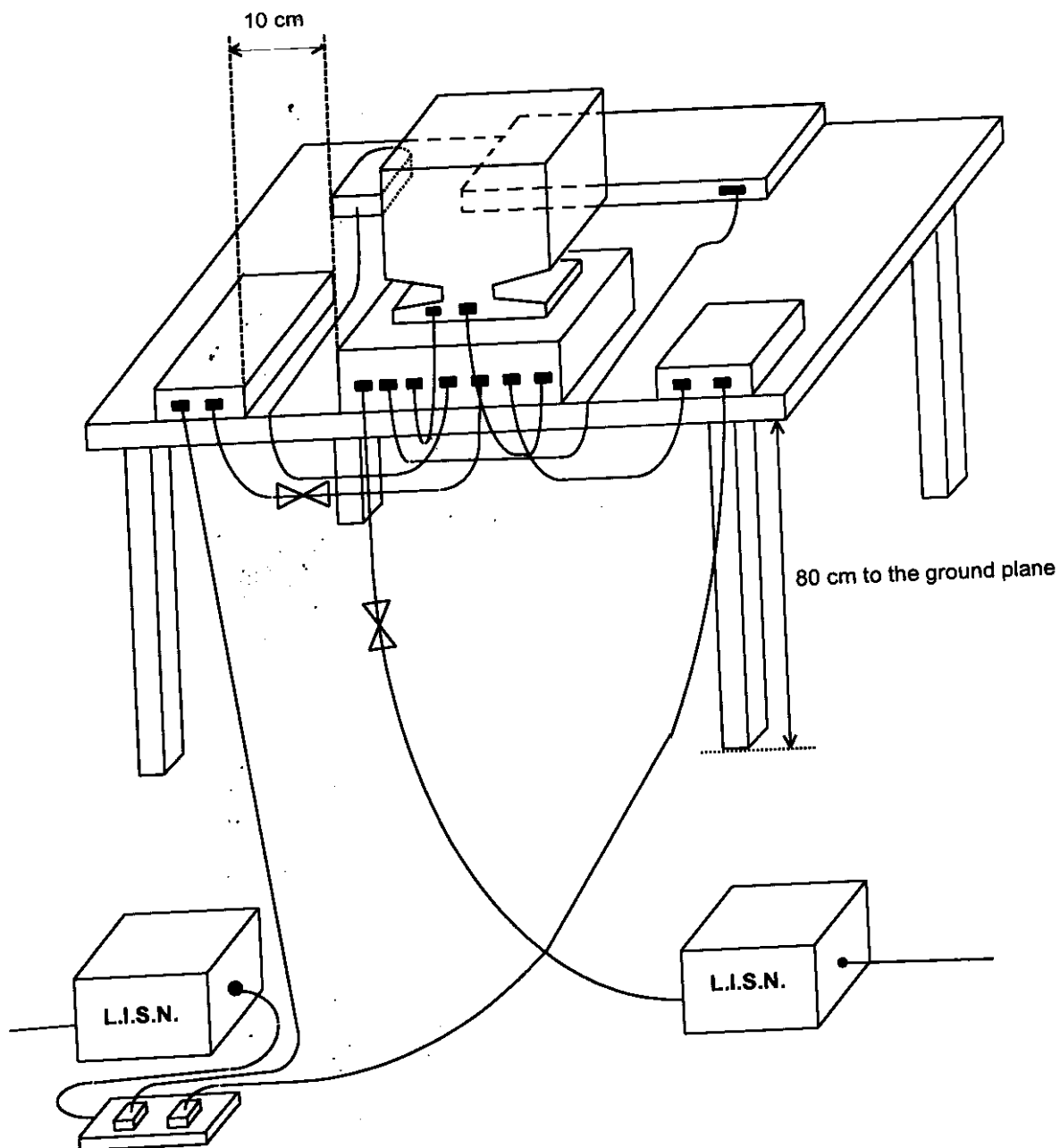
5.1. Major Measuring Instruments

Test Receiver	R&S ESH3
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 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 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 one 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

5.4.1. Test mode : 1600 x 1200 106K / 85Hz

- Temperature : 28°C
- Relative Humidity : 53 %
- Test Date : Oct. 13, 1998
- All emissions not reported here are more than 10 dB below the prescribed limit.

The Conducted Emission test was passed at minimum margin

NEUTRAL 0.78 MHz / 31.90 dBuV.

Frequency (MHz)	Line or Neutral	Meter Reading				Limits				Margin	
		Q.P. (dBuV)	A.V. (dBuV)	Q.P. (uV)	A.V. (uV)	Q.P. (dBuV)	A.V. (dBuV)	Q.P. (uV)	A.V. (uV)	Q.P. (dB)	A.V. (dB)
0.75	L	34.50	30.90	53.09	35.08	56.00	46.00	630.96	199.53	-21.50	-15.10
9.08	L	32.70	27.60	43.15	23.99	60.00	50.00	1000.00	316.23	-27.30	-22.40
29.82	L	33.50	28.90	47.32	27.86	60.00	50.00	1000.00	316.23	-26.50	-21.10
0.78	N	35.30	31.90	58.21	39.36	56.00	46.00	630.96	199.53	-20.70	-14.10
9.10	N	34.50	28.80	53.09	27.54	60.00	50.00	1000.00	316.23	-25.50	-21.20
29.78	N	34.60	29.40	53.70	29.51	60.00	50.00	1000.00	316.23	-25.40	-20.60

Test Engineer : Lou Lin
LOUI LIN

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5.4.2. Test mode : 640 x 480 31K/ 60Hz (TV MODE, S-Video)

- Temperature : 28°C
- Relative Humidity : 53 %
- Test Date : Oct. 13, 1998
- All emissions not reported here are more than 10 dB below the prescribed limit.

The Conducted Emission test was passed at minimum margin

NEUTRAL 0.73 MHz / 29.70 dBuV.

Frequency (MHz)	Line or Neutral	Meter Reading				Limits				Margin	
		Q.P. (dBuV)	A.V. (dBuV)	Q.P. (uV)	A.V. (uV)	Q.P. (dBuV)	A.V. (dBuV)	Q.P. (uV)	A.V. (uV)	Q.P. (dB)	A.V. (dB)
0.76	L	32.40	28.70	41.69	27.23	56.00	46.00	630.96	199.53	-23.60	-17.30
9.12	L	31.90	27.60	39.36	23.99	60.00	50.00	1000.00	316.23	-28.10	-22.40
29.83	L	33.40	28.50	46.77	26.61	60.00	50.00	1000.00	316.23	-26.60	-21.50
0.73	N	33.10	29.70	45.19	30.55	56.00	46.00	630.96	199.53	-22.90	-16.30
9.16	N	32.80	28.50	43.65	26.61	60.00	50.00	1000.00	316.23	-27.20	-21.50
29.87	N	31.30	27.30	36.73	23.17	60.00	50.00	1000.00	316.23	-28.70	-22.70

Test Engineer : Lou Lin
LOUI LIN

5.4.3. Test mode : 1280 x 1024 91K/85Hz

- Temperature : 28°C
- Relative Humidity : 53 %
- Test Date : Oct. 13, 1998
- All emissions not reported here are more than 10 dB below the prescribed limit.

The Conducted Emission test was passed at minimum margin

NEUTRAL 0.77 MHz / 30.30 dBuV.

Frequency (MHz)	Line or Neutral	Meter Reading				Limits				Margin	
		Q.P. (dBuV)	A.V. (dBuV)	Q.P. (uV)	A.V. (uV)	Q.P. (dBuV)	A.V. (dBuV)	Q.P. (uV)	A.V. (uV)	Q.P. (dB)	A.V. (dB)
0.78	L	33.20	29.90	45.71	31.26	56.00	46.00	630.96	199.53	-22.80	-16.10
9.04	L	31.40	28.60	37.15	26.92	60.00	50.00	1000.00	316.23	-28.60	-21.40
29.88	L	32.50	29.10	42.17	28.51	60.00	50.00	1000.00	316.23	-27.50	-20.90
0.77	N	34.10	30.30	50.70	32.73	56.00	46.00	630.96	199.53	-21.90	-15.70
9.13	N	33.80	26.50	48.98	21.13	60.00	50.00	1000.00	316.23	-26.20	-23.50
29.86	N	33.30	28.80	46.24	27.54	60.00	50.00	1000.00	316.23	-26.70	-21.20

Test Engineer : *Lou Lin*
 LOUI LIN

6. Test of Radiated Emission

Radiated emissions from 30 MHz to 2,000 MHz 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 section 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 (HP 85685A)
 - Attenuation 0 dB
 - RF Gain 25 dB
 - Signal Input 20 Hz to 1.5 GHz

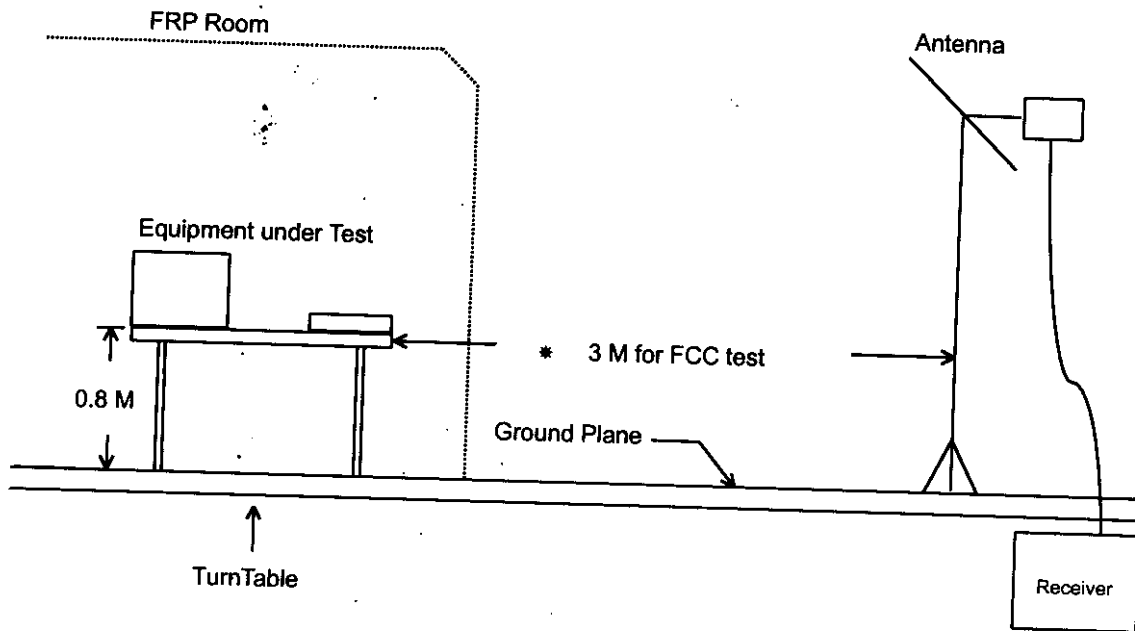
- Spectrum Analyzer (HP 8568B /8594A)
 - Attenuation 0 dB
 - Start Frequency 30 MHz
 - Stop Frequency 2000 MHz
 - Resolution Bandwidth 1 MHz
 - Video Bandwidth 1 MHz
 - Signal Input 100 Hz to 1.5 GHz

- Quasi-Peak Adapter (HP 85650A)
 - 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 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

6.4.1. Test mode : 1600 x 1200 106K / 85Hz

- Test Distance : 10 M
- For frequency 30-1Ghz equipment meets the CISPR PUB.22 CLASS B limits.
- For frequency 1Ghz-2Ghz equipment meets the FCC Class B limits.
- Temperature : 33°C
- Relative Humidity : 67 %
- Test Date : Sep. 30, 1998
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading : Antenna Factor + Cable Loss + Reading = Emission

The Radiated Emission test was passed at minimum margin

36.30 MHz / 23.64 dBuV (VERTICAL) Antenna Height 1 Meter, Turntable Degree 20 °.

Frequency (MHz)	Polarity	Antenna Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Reading (dBuV/m)	Limits (uV/m)	Emission (dBuV/m)	Level (uV/m)	Margin (dB)
67.10	H	6.11	1.36	14.59	30.00	32	22.06	12.68	-7.94
110.90	H	10.53	1.89	8.24	30.00	32	20.66	10.79	-9.34
486.40	H	17.59	3.70	7.45	37.00	71	28.74	27.35	-8.26
36.30	V	14.92	1.07	7.64	30.00	32	23.64	21.25	-6.36
203.20	V	9.15	2.33	10.17	30.00	32	21.65	12.09	-8.35
601.60	V	20.01	4.11	5.47	37.00	71	29.59	30.16	-7.41

Test Engineer : Lou Lin
 LOU LIN

6.4.2. Test mode : 640 x 480 31K/ 60Hz (TV MODE, S-Video)

- Test Distance : 10 M
- For frequency 30-1Ghz equipment meets the CISPR PUB.22 CLASS B limits.
- For frequency 1Ghz-2Ghz equipment meets the FCC Class B limits.
- Temperature : 33°C
- Relative Humidity : 67 %
- Test Date : Sep. 30, 1998
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading : Antenna Factor + Cable Loss + Reading = Emission

The Radiated Emission test was passed at minimum margin

36.00 MHz / 22.74 dBuV (VERTICAL) Antenna Height 4 Meter, Turntable Degree 285 °.

Frequency (MHz)	Polarity	Antenna Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Limits (dBuV/m)	Emission (uV/m)	Level (uV/m)	Margin (dB)	
37.00	H	14.56	1.06	6.38	30.00	32	22.00	12.59	-8.00
179.60	H	9.03	2.00	9.35	30.00	32	20.38	10.45	-9.62
203.20	H	9.15	2.33	10.07	30.00	32	21.55	11.95	-8.45
36.00	V	15.08	1.08	6.58	30.00	32	22.74	21.25	-7.26
58.20	V	6.21	1.20	14.61	30.00	32	22.02	12.62	-7.98
601.60	V	20.01	4.11	4.87	37.00	71	28.99	28.15	-8.01

Test Engineer : *Lou Lin*
 LOUI LIN

6.4.3. Test mode : 1280 x 1024 91K/85Hz

- Test Distance : 10 M
- For frequency 30-1Ghz equipment meets the CISPR PUB.22 CLASS B limits.
- For frequency 1Ghz-2Ghz equipment meets the FCC Class B limits.
- Temperature : 33°C
- Relative Humidity : 67 %
- Test Date : Sep. 30, 1998
- Emission level (dBuV/m) = 20 log Emission level (uV/m)
- Corrected Reading : Antenna Factor + Cable Loss + Reading = Emission

The Radiated Emission test was passed at minimum margin

77.60 MHz / 24.40 dBuV (VERTICAL) Antenna Height 4 Meter, Turntable Degree 15 °.

Frequency (MHz)	Antenna Polarity	Antenna Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Limits (dBuV/m)	Emission (uV/m)	Level (uV/m)	Margin (dB)
77.60	H	6.77	1.50	16.13	30.00	32	24.40	16.60 -5.60
179.90	H	9.01	2.00	8.79	30.00	32	19.80	9.77 -10.20
480.00	H	17.54	3.70	4.08	37.00	71	25.32	18.45 -11.68
37.70	V	14.20	1.05	6.88	30.00	32	22.12	21.25 -7.88
76.90	V	6.64	1.50	10.19	30.00	32	18.33	8.25 -11.67
480.00	V	17.54	3.70	4.98	37.00	71	26.22	20.46 -10.78

Test Engineer : Louie Lin
 LOUI LIN

7. Antenna Factor & Cable Loss

Frequency (MHz)	Antenna Factor (dB)	Cable Loss (dB)
30	17.7	0.9
35	15.6	1.1
40	13.0	1.0
45	10.1	1.2
50	8.0	1.2
55	6.4	1.2
60	6.1	1.2
65	5.9	1.4
70	6.4	1.3
75	6.3	1.5
80	7.2	1.5
85	7.5	1.6
90	8.5	1.6
100	10.1	1.7
110	10.4	1.9
120	11.8	1.8
130	11.2	2.3
140	11.7	2.0
150	11.9	2.2
160	10.5	2.1
180	9.0	2.0
200	9.1	2.3
225	9.5	2.5
250	11.8	2.6
300	13.6	2.9
350	14.8	3.1
400	16.3	3.4
450	17.3	3.7
500	17.7	3.7
550	19.5	3.9
600	20.0	4.1
650	20.4	4.3
700	21.0	4.6
750	21.4	4.9
800	22.1	4.8
850	22.9	5.0
900	22.7	5.1
950	24.1	5.3
1000	24.9	5.5
2000	26.4	9.7

8. List of Measuring Equipments Used

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Test Receiver	R&S	ESH3	893495/013	9 KHz - 30MHz	Apr. 13, 1998	Conduction
Test Receiver	R&S	ESVP	893610/003	20MHz - 1.3 GHz	Apr. 13, 1998	Conduction
LISN	EMCO	3825/2	9510-2484	50 ohm / 50 μ H	Nov. 29, 1997	Conduction
LISN	KYORITSU	KNW-407	8-1010-15	50 ohm / 50 μ H	Nov. 10, 1997	Conduction
EMI Filter	CORCOM	MRI-2030	N/A	480VAC / 30A	N/A	Conduction
Spectrum Monitor	R & S	EZM	894987/011	N/A	Apr. 13, 1998	Conduction
Amplifier (Site 1)	HP	87405A	3207A01437	10MHz -3.0GHz	Jun. 26, 1998	Radiation
Spectrum Analyzer (site 1)	HP	8594A	3051A00172	9KHz -2.9GHz	Apr. 17, 1998	Radiation
Bilog Antenna (site 1)	CHASE	CBL6112A	2302	30MHz - 2GHz	Jan. 27, 1998	Radiation
Half-wave dipole antenna (site 1)	EMCO	3121C	8912-496	20MHz - 1GHz	Aug. 12, 1998	Radiation
Turn Table	EMCO	1060-1.211	9507-1805	0 ~360 degree	N/A	Radiation
Antenna Mast	EMCO	1051-1.2	9502-1868	1 m - 4 m	N/A	Radiation
Quasi-peak Adapter (site 1)	HP	85650A	2811A01285	9KHz -1GHz	Jul. 18, 1998	Radiation
RF Preselector (Site 1)	HP	85685A	2926A00951	20Hz -1.5GHz	Jul. 18, 1998	Radiation
Spectrum Analyzer (site 1)	HP	8568B	2928A04713	100Hz - 1.5GHz	Jul. 18, 1998	Radiation