# SPORTON INTERNATIONAL INC.





FCC TEST REPORT

**REPORT NO.: F832306** 

# **FCC TEST REPORT**

for

# PART 15, SUBPART B CLASS B

Equipment : COLOR MONITOR

MODEL NO.: 1. SD7704C, 2. SD7704CM, 3. DC-770 XXX(X=0-9, A-Z

or blank)

TRADE

: DELTA, MITSUBISHI

NAME

FCC ID: H79DC-770

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.

SPORTON international Inc.

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 F C C I D : H79DC-770

ISSUED DATE : APR. 07, 1998

PAGE NUMBER: 10F25

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# SPORTON INTERNATIONAL INC.





FCC TEST REPORT

**REPORT NO.: F832306** 

**CERTIFICATE NO.: F832306** 

## CERTIFICATE OF COMPLIANCE

for

### FCC PART 15, SUBPART B CLASS B

Equipment : COLOR MONITOR

MODEL NO.: 1. SD7704C, 2. SD7704CM, 3. DC-770 XXX(X=0-9, A-Z or

blank)

**TRADE** 

NAME DELTA, MTISUBISHI

**FCCID**: H79DC-770

trant 1817,799'

APPLICANT : DELTA ELECTRONIES, INC.

No. 3, Tung Yuan Road, Chungli Industrial Zone,

Taoyuan Hsien, Taiwan R.O.C.

#### ! **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 APR. 07, 1998 at **SPORTON International Inc.** in LIN KOU.

W. L. Huang

General Manager

SPORTON International Inc.

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#### 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.: 1. SD7704C, 2. SD7704CM, 3. DC-770 XXX (X=0-9. A-Z or blank)

FCC ID:H79DC-770

TRADE NAME DELTA, MITSUBISHI

DATA CABLE : Shielded

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

Line in DATA CABLE: Non-shielded POWER SUPPLY TYPE: Switching

POWER CORD : Non-shielded

#### 1.4. FEATURE OF EQUIPMENT UNDER TEST

• CRT: 17", 0.27/0.28mm, 90 degree

Resolution: 1280x1024 NI

Horizontal Sync.: 31.5 to 69KHz

Vertical Sync.:60 to 85Hz

Reponse video: 100Mhz nominal

Signal cable: 15-pin D-type connector

Power input voltage frequency: 90 to 264VAC, 60/50Hz

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### 2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST

#### 2.1. TEST MANNER

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.

- The DELL keyboard, DELTA monitor, HP printer, PRIMAX mouse, JS headphone and ACEEX modem were connected to the LEO PC.
- The following display resolution were investigated during the compliance test:
  - 1. Horizontal frequency (640x480 to 1280x1024, 31.5Khz to 69KHz)
  - 2. Vertical frequency (60Hz to 85Hz)
- d. According to the above tests, we listed the fllowing display modes as the worst cases:
  - 1. 1024x768 (non-interlanced 69KHz), refresh rate 85Hz.
  - 1280x1024 (non-interlanced 64KHz), refresh rate 60Hz.
- e. 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.

:P2L97

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.

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Support Device 2. --- MODEM ( ACEEX )

FCC ID

::IFAXDM1414

Model No.

:DM1414

Serial No.

:SP0016

:Linear

Data Cable

:Shielded, 360 degree via metal backshells

Power Supply Type

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

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Support Device 7. --- STEREO CASSETTE PLAYER (AIWA)

FCC ID

:N/A

Model No.

:HS-J36

Serial No.

:SP1009

Data Cable

:Non-shielded

Support Device 8. --- HEADPHONE (JS)

FCC ID

:N/A

Model No.

:H-201

Serial No.

:SP1007

Data Cable

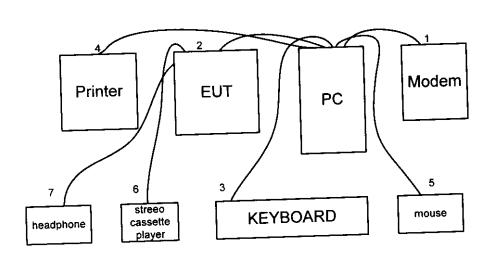
:Non-shielded

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# 2.3. CONNECTION DIAGRAM OF TEST SYSTEM



- The I/O cable is connected to the support device 2. 1.
- The I/O cable is connected to the EUT. 2.
- The I/O cable is connected to the support device 5.
- The I/O cable is connected to the support device 3.
- The I/O cable is connected to the support device 6. 5.
- The I/O cable is connected to the support device 7.
- The I/O cable is connected to the support device 8. 7.

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## 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.
- 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.

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#### 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 MHzb. Radiation : from 30 MHz to 2000 MHz

#### 4.5. TEST DISTANCE

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

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#### 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

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#### **5.2. TEST PROCEDURES**

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 ).

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.

Both sides of AC line were checked for maximum conducted interference.

g. The frequency range from 450 KHz to 30 MHz was searched.

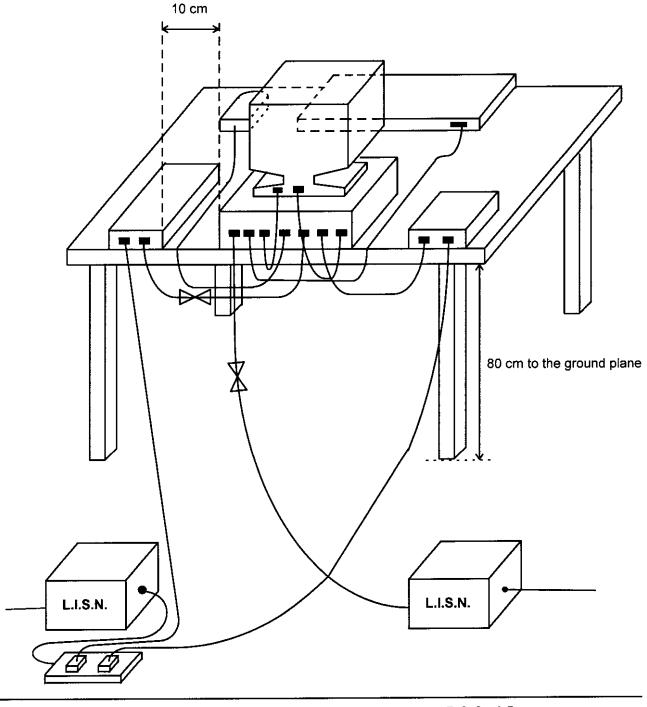
h. Set the test-receiver system ( receiver HP85462A ) to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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.

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#### 5.3. TYPICAL TEST SETUP LAYOUT OF CONDUCTED POWERLINE



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# 5.4. TEST RESULT OF AC POWERLINE CONDUCTED EMISSION

Frequency Range of Test: from 0.45 MHz to 30 MHz

Temperature : 21 °C

Relative Humidity:62% RH

Measuring mode:1024x768 (non-interlaced 69Khz), 85Hz

All emissions not reported here are more than 10 dB below the prescribed limit.

Test Date : APR. 07, 1998

# The Conducted Emission test was passed at minimum margin LINE 19.37MHz / 43.80dBuV.

Frequency	Line / Neutral	Meter Reading		Limits		Margin
(MHz)		(dBuV)	( uV )	( dBuV )	( uV )	(dB)
17.24	L	40.80	109.65	48.00	251.19	-7.20
19.37	L	43.80	154.88	48.00	251.19	-4.20
23.72	L	43.70	153.11	48.00	251.19	-4.30
19.17	N	43.20	144.54	48.00	251.19	-4.80
20.48	N	43.50	149.62	48.00	251.19	-4.50
23.72	N	43.70	153.11	48.00	251.19	-4.30

Test Engineer:

Alex

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255

#### 5.4.1 TEST RESULT OF AC POWERLINE CONDUCTED EMISSION

Frequency Range of Test: from 0.45 MHz to 30 MHz

Temperature : 21 °C

Relative Humidity:62% RH

Measuring mode: 1280x1024 (non-interlaced 64Khz), 60Hz

All emissions not reported here are more than 10 dB below the prescribed limit.

Test Date: APR. 07, 1998

## The Conducted Emission test was passed at minimum margin LINE 19.86MHz / 44.70dBuV.

Frequency	Line / Neutral	Meter Reading		Limits		Margin
(MHz)		(dBuV)	( uV )	(dBuV)	( uV )	( dB )
17.16	L	40.00	100.00	48.00	251.19	-8.00
19.86	L	44.70	171.79	48.00	251.19	-3.30
27.15	L	42.30	130.32	48.00	251.19	-5.70
17.23	N	39.20	91.20	48.00	251.19	-8.80
20.24	N	42.50	133.35	48.00	251.19	-5.50
27.15	N	42.00	125.89	48.00	251.19	-6.00

Test Engineer:

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## 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 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 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

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#### **6.2. TEST PROCEDURES**

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.

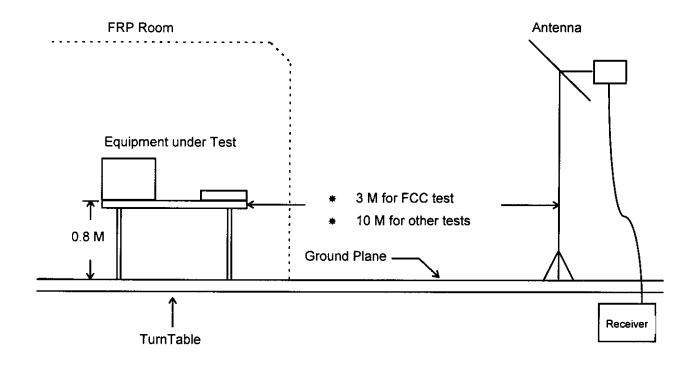
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## 6.3. TYPICAL TEST SETUP LAYOUT OF RADIATED EMISSION



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# 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 : 21 °C

Relative Humidity :75% RH

Measuring mode: 1024x768 (non-interlaced 69Khz), 85Hz

Test Date :MAR. 23, 1998

Emission level ( dBuV/m ) = 20 log Emission level ( uV/m )

Sample Calculation at 350.40MHz
 Corrected Reading = 19.66+ 3.25+ 18.62= 41.53(dBuV/m)

# The Radiated Emission test was passed at minimum margin Vertical 43.24 MHz / 35.11dBuV

Antenna Height <u>3Meter</u> , Turntable Degree <u>189°</u>.

Frequency		Antenna	Cable	Reading	Lim	its	Emission	Level	Margin
(MHz)	Polarity	Factor ( dB )	Loss ( dB )	( dBuV )	(dBuV)	( uV )	(dBuV)	( uV )	( dB )
69.50	Н	5.55	1.20	27.19	40.00	100	33.94	49.77	-6.06
43.24	٧	1.02	0.98	33.11	40.00	100	35.11	56.95	-4.89
50.42	٧	2.45	1.01	30.70	40.00	100	34.16	51.05	-5.84
54.30	٧	3.04	1.09	30.14	40.00	100	34.27	51.70	-5.73
169.00	V	12.22	2.19	20.22	43.50	150	34.63	53.89	-8.87
350.40	V	19.66	3.25	18.62	46.00	200	41.53	119.26	-4.47

Jack Den

Test Engineer:

SPORTON international Inc.

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#### 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 : 21 °C

Relative Humidity:75% RH

Measuring mode: 1280x1024 (non-interlaced 64Khz), 60Hz

Test Date :MAR. 23, 1998

Emission level ( dBuV/m ) = 20 log Emission level ( uV/m )

Sample Calculation at 552.00MHz Corrected Reading = 23.54+ 4.41+ 12.13= 40.08(dBuV/m)

# The Radiated Emission test was passed at minimum margin Vertical 551.20 MHz / 41.55dBuV

Antenna Height 2 Meter, Turntable Degree 75°.

Frequency		Antenna	Cable	Reading	Lim	its	Emission	Level	Margin
(MHz)	Polarity	Factor (dB)	Loss ( dB )	(dBuV)	(dBuV)	( uV )	( dBuV )	( uV )	( dB )
551.20	٧	23.53	4.40	13.61	46.00	200	41.55	119.54	-4.45
43.17	٧	1.01	0.98	30.92	40.00	100	32.91	44.21	-7.09
50.34	٧	2.44	1.01	30.81	40.00	100	34.26	51.64	-5.74
169.00	٧	12.22	2.19	20.42	43.50	150	34.83	55.14	-8.67
169.20	Н	12.22	2.19	17.91	43.50	150	32.33	41.35	-11.17
552.00	Н	23.54	4.41	12.13	46.00	200	40.08	100.93	-5.92

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## 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
360 380	20.14	3.30
380	21.81	3.40
400	22.29	3.60
450 500	22.40	3.80
500	22.31	4.10
550 600	23.42	4.40
600	24.01	4.60
650	25.11	5.00
700 750	26.00	5.30
750	26.51	5.51
800	27.10 27.51	5.70
850 000	27.51	5.90
900	27.90	6.20
950 1000	30.01	6.30
1000	29.00	6.40

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

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## 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	С
RF Section	HP	85460A	3308A00104	9 KHz - 6.5 GHz	Oct. 22, 1997	С
LISN	EMCO	3850/2	1035	50 ohm / 50 uH	Oct. 27, 1997	С
LISN	KYORITSU	KNW-407	8-693-10	50 ohm / 50 uH	Oct. 04, 1997	С
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	С
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

<sup>\*</sup> The column of Remark indicates that the instruments used for conduction ("C") or radiation ("R") test.

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