

TDK EMC CENTER CHIKUMAGAWA OPEN SITE

543 OTAI SAKU-CITY NAGANO JAPAN

REPORT OF MEASUREMENTS ON DIGITAL DEVICE

Date : December 27 ,2000

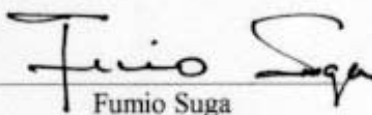
Issued in : Saku-city , JAPAN

TDK APPLICATION No.: TDC-00-1204

1. Applicant : FUJI PHOTO FILM CO. , LTD
13-45 , SENZUI 3 - CHOME , ASAKA - SHI , SAITAMA
351 - 8585 JAPAN
2. Factory : FUJIX CO. , LTD
1 - 6 , MATSUZAKADAIRA TAIWA - CHO ,
KUROKAWA - GUN , MIYAGI - KEN , 981 - 3492 JAPAN
3. Description of Equipment Under Test (EUT)
 - 3-1. EUT : DIGITAL CAMERA
 - 3-2. Category : FCC Class B Digital Device
 - 3-3. FCC ID No. : F5GFP - 6800
 - 3-4. Trade Name : FUJIFILM
 - 3-5. Model No. : Fine Pix 6800Zoom
 - 3-6. Serial No. : RJ0006
 - 3-7. Date of Manufacture : November ,2000
 - 3-8. Power Supply : 120 V AC , 60Hz
4. Regulation Applied : FCC Part 15 Subpart B CLASS B 3m
5. Measurement Procedure Used : ANSI C63.4 - 1992
6. Place of Measurement : TDK EMC CENTER CHIKUMAGAWA OPEN SITE
7. Date of Measurement : December 12 ,2000
8. Measurement Results : The test results show that EUT conform to regulations
applied as shown in the attached sheets.

Note : (1) The test results relate only to items tested.

(2) This report shall not be reproduced except in full without the written approval of testing
laboratory.


Fumio Suga

Chief of TDK CHIKUMAGAWA OPEN SITE

MEASUREMENT RESULTS OF RADIATED RADIO NOISE at 3m

Date : December 12, 2000

Temp. : 15 °C ; Humi. : 34 %

Test Receiver : Rohde & Schwarz ESCS 30

Operation Mode : Detector function : CISPR Quasi-Peak

6dB Band width : 120kHz

External Attenuator : none

Description of Equipment : DIGITAL CAMERA

Model No. : Fine Pix 6800Zoom

Test Condition of Equipment Under Test (EUT)

1) Configuration of EUT : Refer to sheet No.5, 6 and .7

2) EUT Grounding : None.

3) Operating Condition : CAMERA Mode .

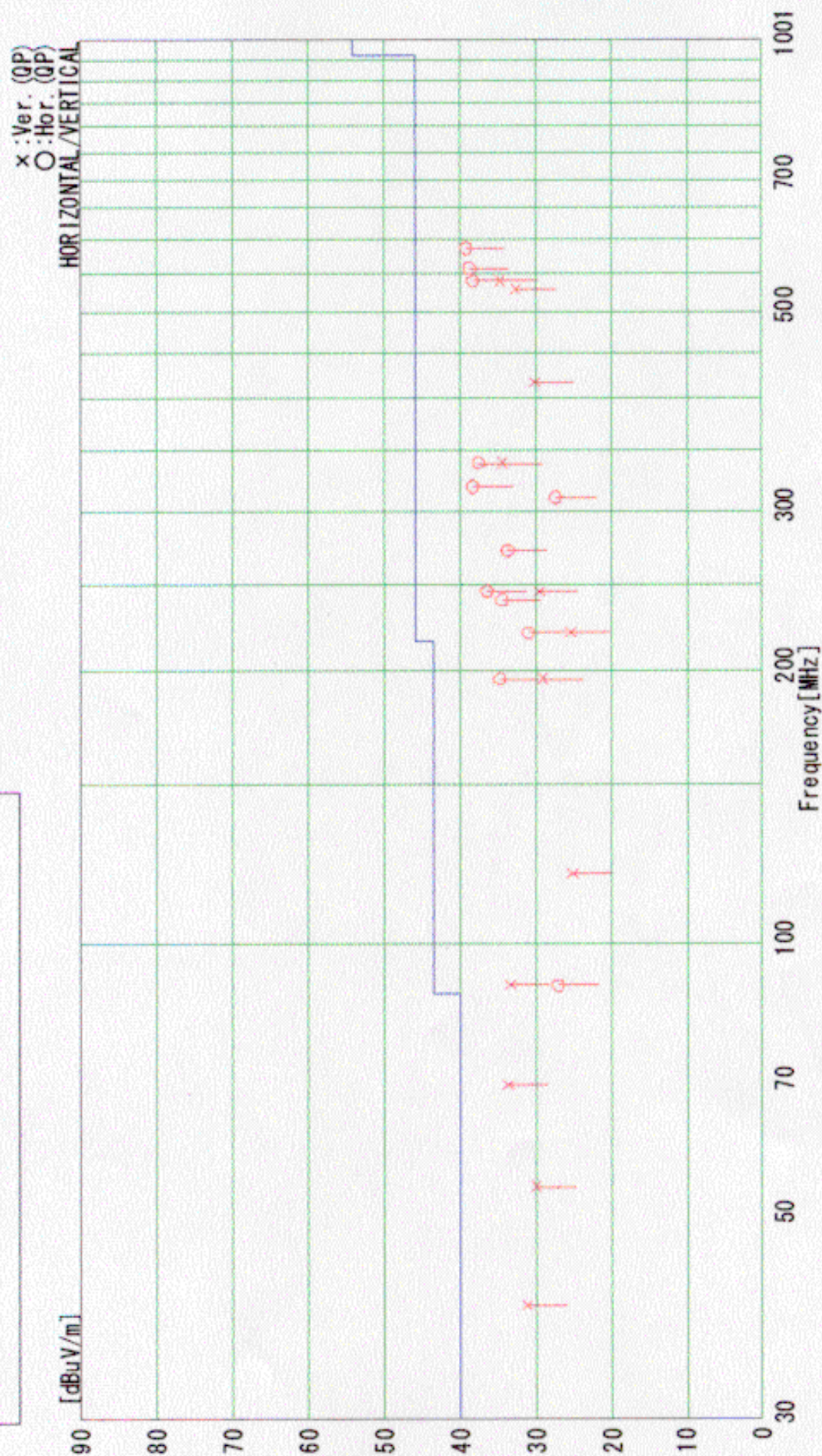
Frequency (MHz)	Correction Factor (dB)	Meter Reading (dB μ V/m)		Limit (dB μ V/m)	Emission Level (dB μ V/m)		Margin (dB)
		Hor.	Ver.		Hor.	Ver.	
40.000	15.9	---	31.1	40.0	---	31.1	8.9
54.130	11.2	---	29.9	40.0	---	29.9	10.1
70.070	7.8	---	33.6	40.0	---	33.6	6.4
90.210	10.0	27.0	33.3	43.5	27.0	33.3	10.2
120.020	14.9	---	25.1	43.5	---	25.1	18.4
196.290	19.2	34.7	29.0	43.5	34.7	29.0	8.8
220.840	20.3	30.9	25.4	46.0	30.9	25.4	15.1
240.040	20.7	34.4	---	46.0	34.4	---	11.6
245.380	20.7	36.4	29.5	46.0	36.4	29.5	9.6
272.040	21.5	33.7	---	46.0	33.7	---	12.3
311.160	19.8	27.3	---	46.0	27.3	---	18.7
320.050	20.0	38.2	---	46.0	38.2	---	7.8
340.060	20.4	37.5	34.3	46.0	37.5	34.3	8.5
417.270	21.8	---	30.1	46.0	---	30.1	15.9
528.090	24.2	---	32.5	46.0	---	32.5	13.5
540.080	24.4	38.2	34.7	46.0	38.2	34.7	7.8
558.410	24.8	38.7	---	46.0	38.7	---	7.3
587.040	25.7	39.1	---	46.0	39.1	---	6.9

Note : 1) Meter Readings include Correction Factor (Antenna factor , Cable loss).

2) Margin = Limit - Emission Level.

Tested by : *Fumihiko Ogi*
Engineer of TDK Chikumagawa Open Site

FCC 15B CLASS B RADIATED 3m
 EUT : Fine Pix 6800Zoom 120V/60Hz
 MODE : CAMERA Mode
 Frequency : 30 ~ 1000 MHz



MEASUREMENT RESULTS OF RADIATED RADIO NOISE at 3m

Date : December 12, 2000

Temp. : 15 °C ; Humi. : 34 %

Test Receiver : Rohde & Schwarz ESCS 30

Operation Mode : Detector function : CISPR Quasi-Peak

6dB Band width : 120kHz

External Attenuator : none

Description of Equipment : DIGITAL CAMERA

Model No. : Fine Pix 6800Zoom

Test Condition of Equipment Under Test (EUT)

1) Configuration of EUT : Refer to sheet No.5, 6 and .7

2) EUT Grounding : None.

3) Operating Condition : USB Mode .

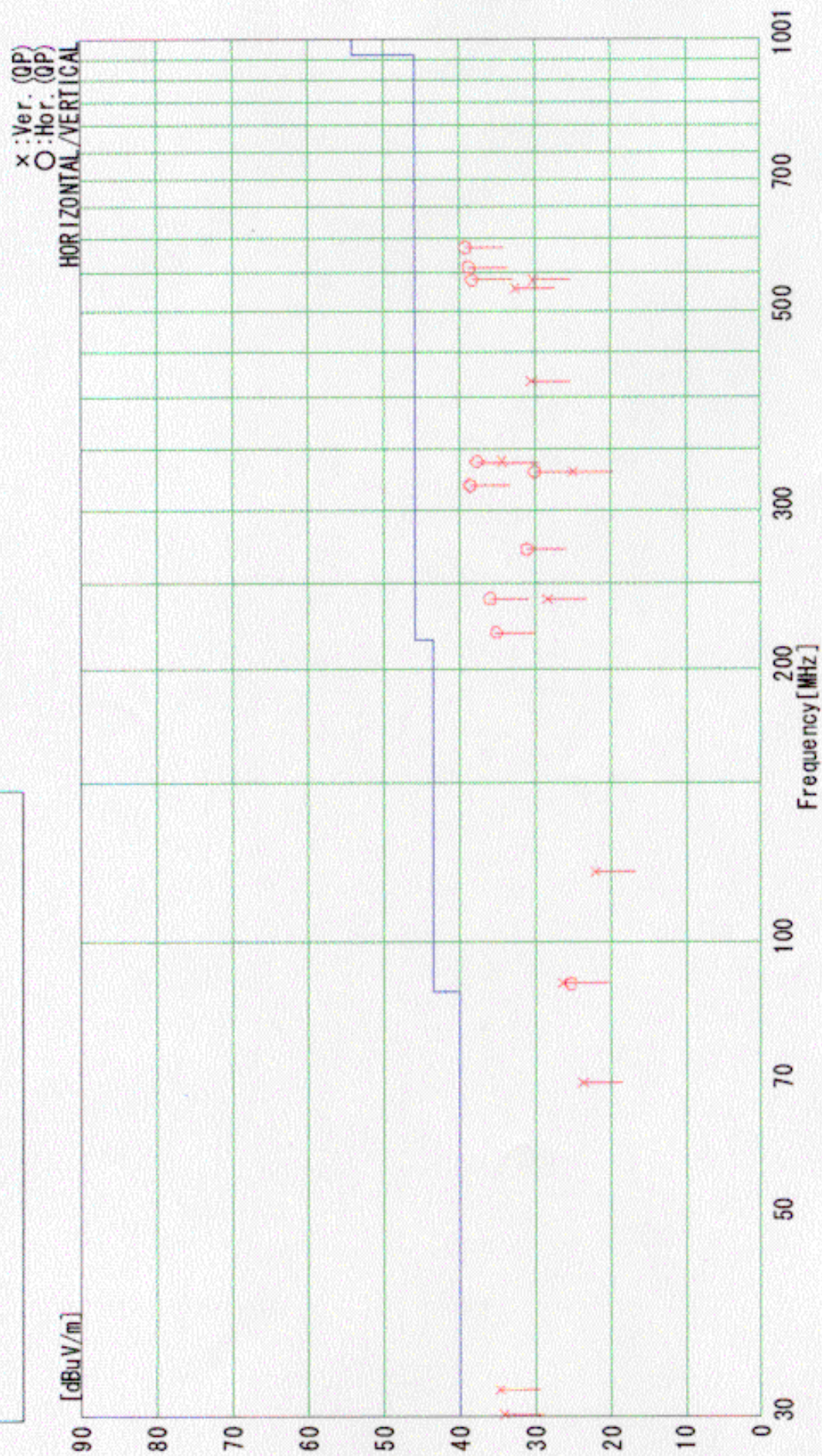
Frequency (MHz)	Correction Factor (dB)	Meter Reading (dB μ V/m)		Limit (dB μ V/m)	Emission Level (dB μ V/m)		Margin (dB)
		Hor.	Ver.		Hor.	Ver.	
30.060	19.8	---	34.0	40.0	---	34.0	6.0
32.060	19.0	---	34.6	40.0	---	34.6	5.4
70.070	7.8	---	23.6	40.0	---	23.6	16.4
90.210	10.0	25.3	26.2	43.5	25.3	26.2	17.3
120.020	14.9	---	21.9	43.5	---	21.9	21.6
220.030	20.3	35.1	---	46.0	35.1	---	10.9
240.040	20.7	35.9	28.3	46.0	35.9	28.3	10.1
272.040	21.5	31.0	---	46.0	31.0	---	15.0
320.050	20.0	38.5	---	46.0	38.5	---	7.5
331.210	20.2	30.0	24.9	46.0	30.0	24.9	16.0
340.060	20.4	37.6	34.4	46.0	37.6	34.4	8.4
417.270	21.8	---	30.4	46.0	---	30.4	15.6
528.090	24.2	---	32.6	46.0	---	32.6	13.4
540.080	24.4	38.2	30.3	46.0	38.2	30.3	7.8
558.410	24.8	38.7	---	46.0	38.7	---	7.3
587.040	25.7	39.1	---	46.0	39.1	---	6.9

Note : 1) Meter Readings include Correction Factor (Antenna factor , Cable loss).

2)Margin = Limit - Emission Level.

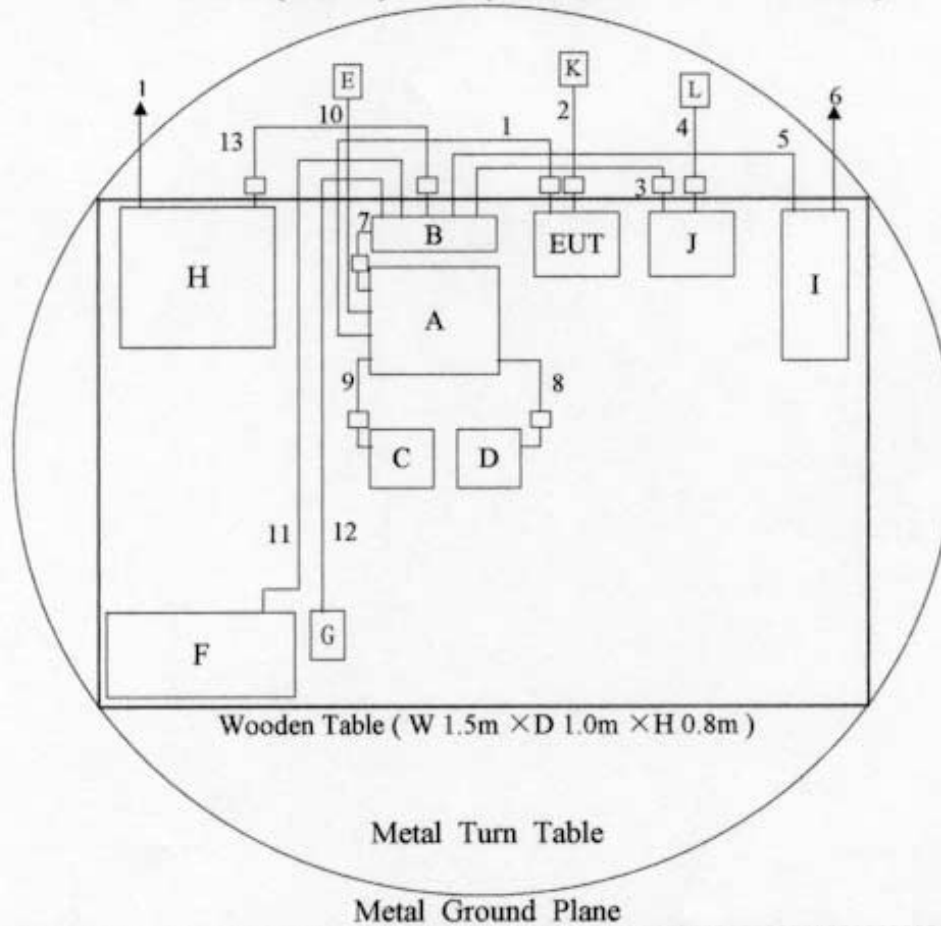
Tested by : *Junichiro Ooi*
Engineer of TDK Chikumagawa Open Site

FCC 15B CLASS B RADIATED 3m
 EUT : Fine Pix 6800Zoom 120V/60Hz
 MODE : USB Mode
 Frequency : 30 ~ 1000 MHz



EUT's Test Arrangement of Radiation

Non Metallic (F. R. P.) Dome (W 8.0m × D 6.3m × H 5.5m)



Test Configuration

No.	Device	MODEL No.	FCC ID	S/N	Manufacturer
EUT	DIGITAL CAMERA	Fine Pix 6800Zoom	F5GFP-6800	RJ0006	FUJI PHOTO FILM CO. , LTD
A	PC NOTE BOOK COMPUTER	PCG-505TR	DOC	3415556	SONY
B	PORT REPLICATOR	PCGA-PR5	DOC	126219	SONY
C	FLOPPY DISK DRIVE	PCGA-FD5	DOC	1215376	SONY
D	CD-ROM DRIVE	PCGA-CD51	DOC	3101473	SONY
E	AC ADAPTER	PCGA-AC51		9906A0361473	SONY
F	KEY BOARD	SKR-2233	GJJSKR-223C9	8AAE001175	SEJINER ELECTON , Inc.
G	MOUSE	2.1A	C3KKMP3	02209569	MICRO SOFT
H	PC MONITOR	M2978	BEJCA500	CY5430HF3CV	LG ELECTRONICS
I	SCANNER	AS1	F5GAS-1	0009	FUJI PHOTO FILM CO. , LTD
J	DIGITAL CAMERA	MX 2900 Zoom	F5GDX-9	U000015	FUJI PHOTO FILM CO. , LTD
K	AC ADAPTER	AC-5VS		9003	FUJI PHOTO FILM CO. , LTD
L	AC ADAPTER	AC-5VN		9914	FUJI PHOTO FILM CO. , LTD

TDK Application No. : TDC-00-1204

Connection Cables

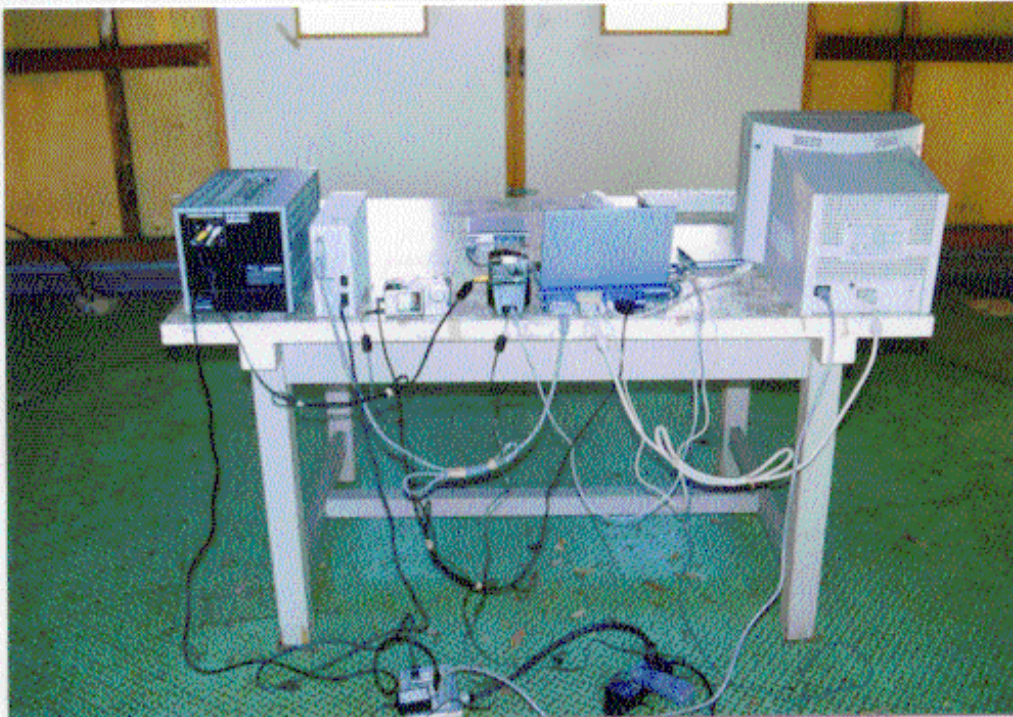
No.	I/F & Power Cable	Model No.	Cable Length	Feraite Core	Manufacturer
1	USB CABLE	-----	1.50 m	YES	SHIELD YES
2	AC ADAPTOR CABLE	-----	1.90 m	YES	
3	RS232C CABLE	-----	2.00 m	YES	SHIELD YES
4	AC ADAPTOR CABLE	-----	1.90 m	YES	
5	SCSI CABLE	-----	1.50 m	YES	SHIELD YES
6	AC CABLE(SCANNER)	-----	1.80 m		
7	PORT REPLICATOR CABLE	-----	0.20 m	YES	SHIELD YES
8	CD-ROM CABLE	-----	0.30 m	YES	SHIELD YES
9	FLOPPY DRIVE CABLE	-----	0.10 m	YES	SHIELD YES
10	AC ADAPTOR CABLE(PC)	-----	2.20 m		
11	MOUSE CABLE	-----	1.90 m		SHIELD YES
12	KEY BOARD CABLE	-----	1.10 m		SHIELD YES
13	PC MONITOR CABLE	-----	1.65 m	YES	SHIELD YES
14	PC MONITOR POWER CABLE	-----	1.70 m		

RADIATION MEASUREMENT

CONFIGURATION FRONT VIEW



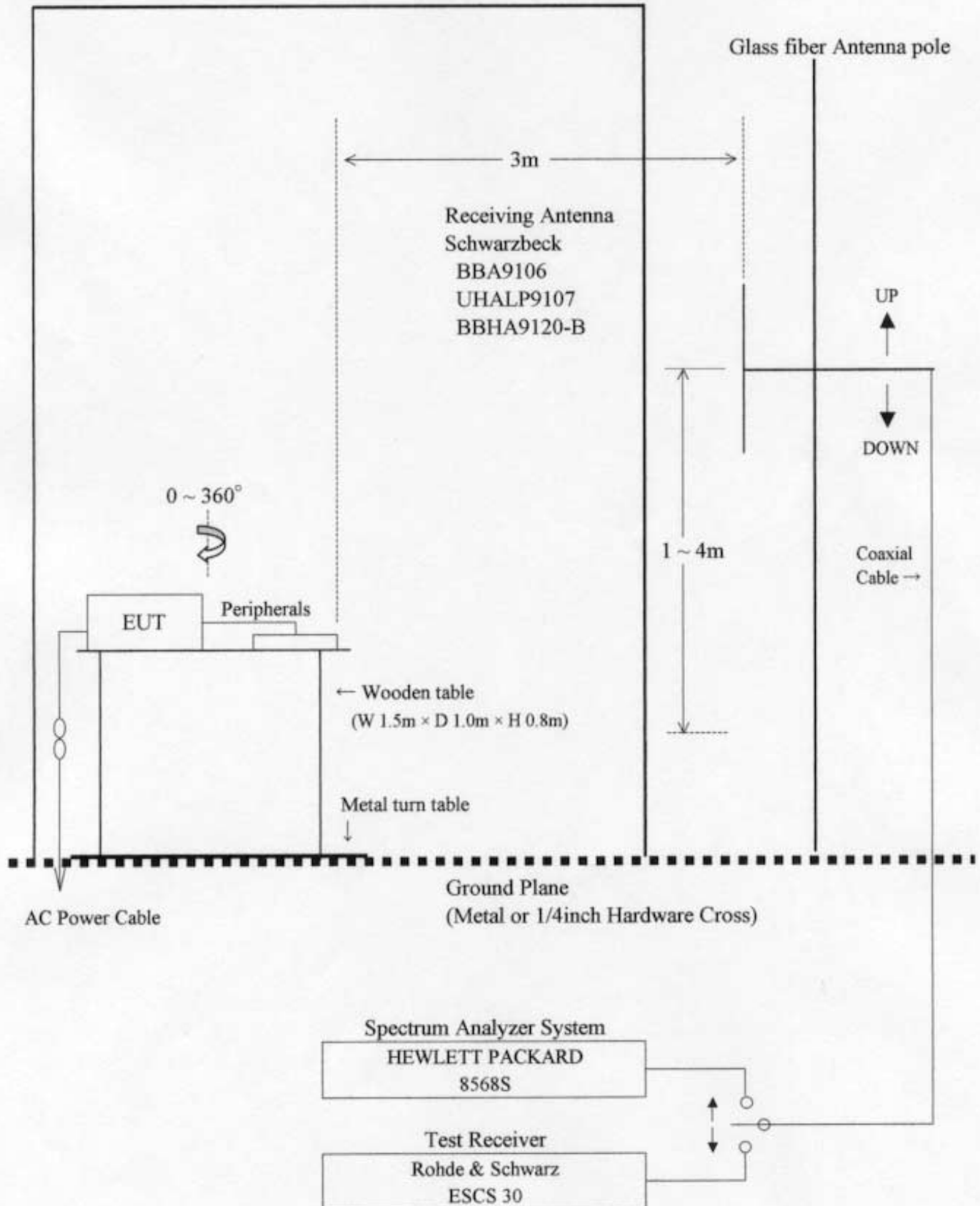
CONFIGURATION REAR VIEW



EUT's Test Arrangement of Radiation

Fig 1

Non metallic (F. R. P.) Dome (W 8.0m × D 6.3m × H 5.5m)



MEASUREMENT RESULTS OF CONDUCTED RADIO NOISE

Date : December 12 ,2000

Temp. : 18 °C ; Humi. : 45 %

Test Receiver : Rohde & Schwarz ESCS 30

Operation Mode : Detector function : CISPR Quasi-Peak

6dB Band width : 10kHz

External Attenuator : none

Description of Equipment : DIGITAL CAMERA

Model No. :	Fine Pix 6800Zoom
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; Type : Desk Top

Test Condition of Equipment Under Test (EUT)

1) Configuration of EUT : Refer to sheet No.13, 14 and 15.

2) EUT Grounding : None.

3) Operating Condition : CAMERA Mode .

[illegible]

Note : 1) Correction Factor include LISN Factor and cable loss for 7 meters.

Meter Readings include Correction Factor.

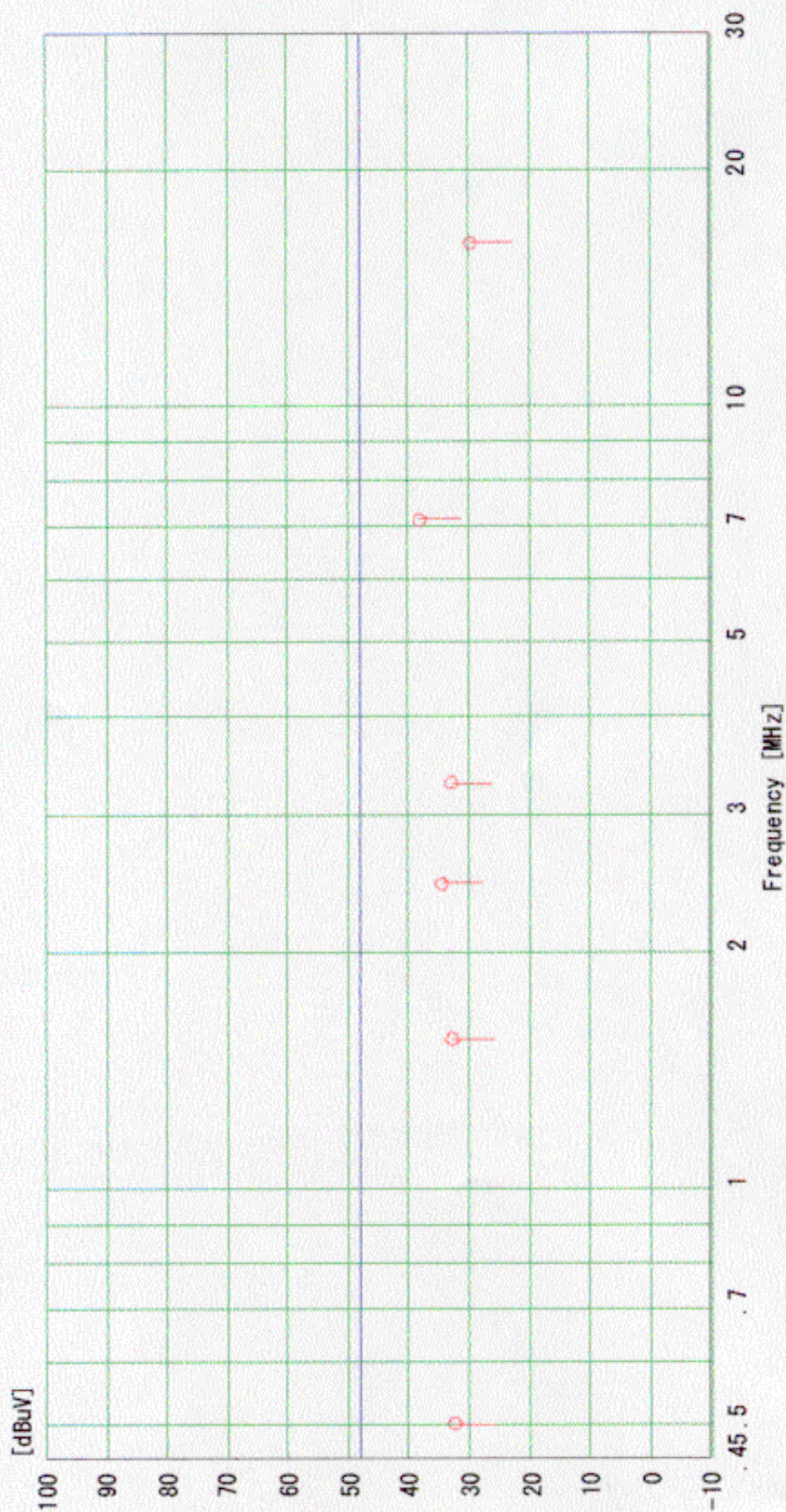
2)VA : Between one end of the power cable and the grounded.

VB : Between the other end of the power cable and the grounded.

3) $\text{Margin} = \text{Limit} - \text{Emission Level}$.

Tested by : Junnihiko Gori
Engineer of TDK Chikumagawa Open Site

FCC 15B CLASS B CONDUCTED
 EUT : Fine Pix 6800Zoom 120V/60Hz
 MODE : CAMERA Mode
 Frequency : 0.45 ~ 30 MHz



TDK Application No. : TDC-00-1204

MEASUREMENT RESULTS OF CONDUCTED RADIO NOISE

Date : December 12, 2000

Temp. : 18 °C ; Humi. : 45 %

Test Receiver : Rohde & Schwarz ESCS 30
 Operation Mode : Detector function : CISPR Quasi-Peak
 6dB Band width : 10kHz External Attenuator : none

Description of Equipment : DIGITAL CAMERA

Model No. : Fine Pix 6800Zoom ; Type : Desk Top

Test Condition of Equipment Under Test (EUT) 

1) Configuration of EUT : Refer to sheet No.13, 14 and 15.

2) EUT Grounding : None.

3) Operating Condition : USB Mode .

Frequency (MHz)	Correction Factor (dB)	Meter Reading (dB μ V)		Limit (dB μ V)	Emission Level (dB μ V)		Margin (dB)
		VA	VB		VA	VB	
0.7100	—	41.7	41.1	47.9	41.7	41.1	6.2
0.8000	—	39.1	35.3	47.9	39.1	35.3	8.8
0.6000	—	41.0	42.3	47.9	41.0	42.3	5.6
0.5100	—	39.8	41.6	47.9	39.8	41.6	6.3
1.0000	—	30.5	24.3	47.9	30.5	24.3	17.4
0.9000	—	32.8	30.4	47.9	32.8	30.4	15.1
2.1100	—	20.8	21.2	47.9	20.8	21.2	26.7
9.0800	—	22.9	21.1	47.9	22.9	21.1	25.0
24.0700	—	23.6	24.3	47.9	23.6	24.3	23.6
28.0800	—	20.3	20.8	47.9	20.3	20.8	27.1

Note : 1) Correction Factor include LISN Factor and cable loss for 7 meters.

Meter Readings include Correction Factor.

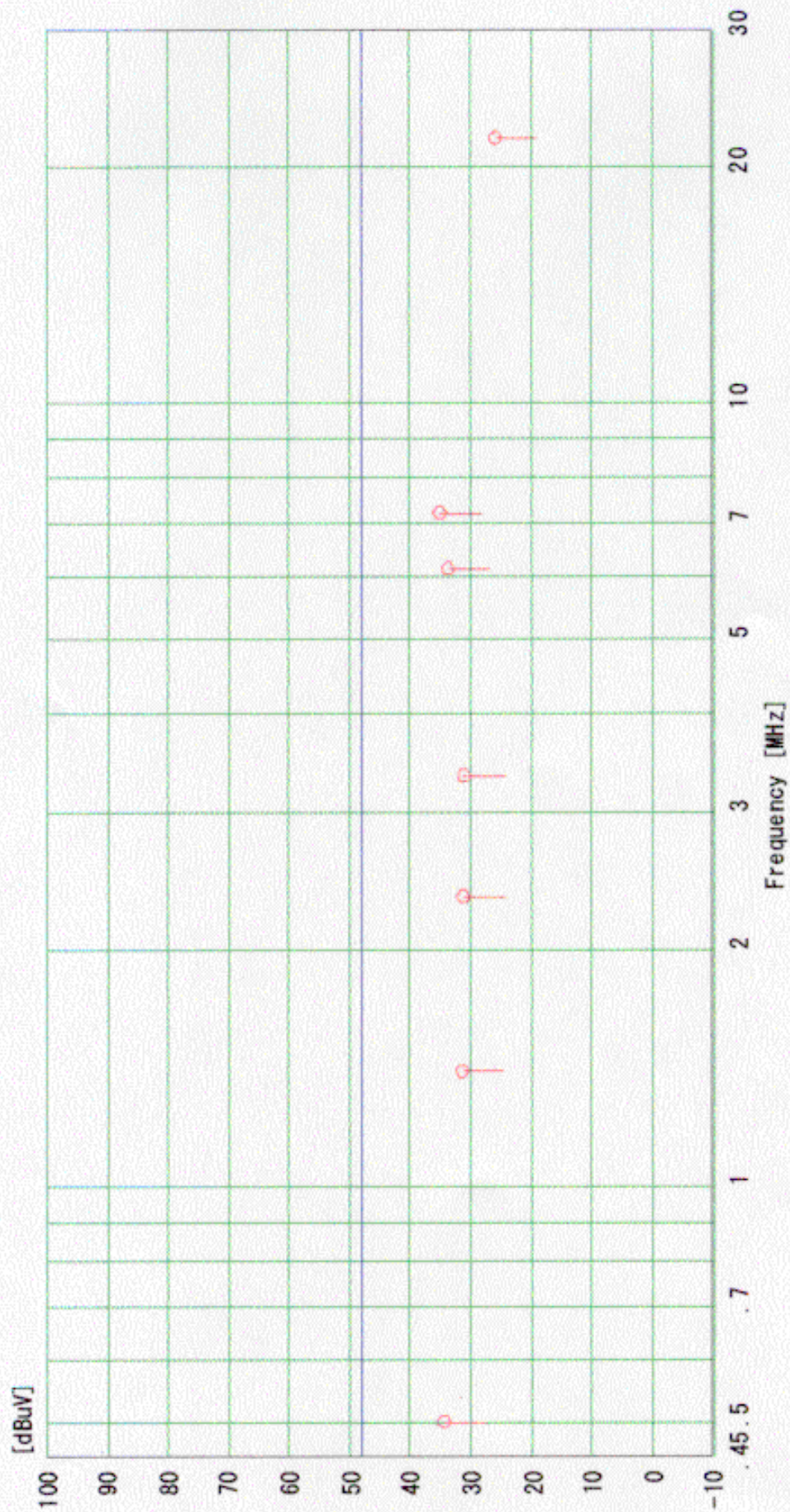
2)VA : Between one end of the power cable and the grounded.

VB : Between the other end of the power cable and the grounded.

3)Margin = Limit — Emission Level.

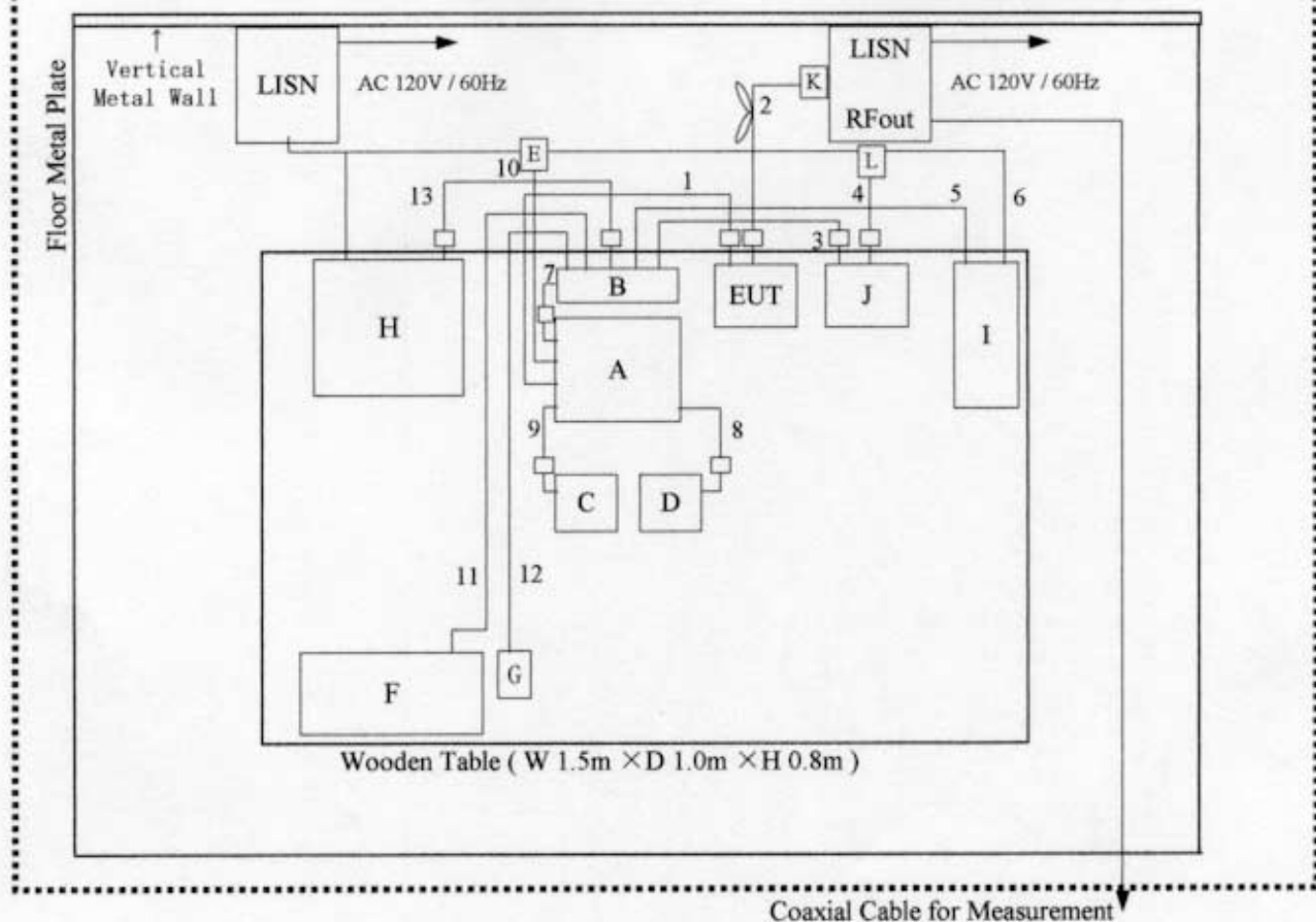
Tested by : *Junihiko Ogi*
 Engineer of TDK Chikumagawa Open Site

FCC 15B CLASS B CONDUCTED
 EUT : Fine Pix 6800Zoom 120V/60Hz
 MODE : USB Mode
 Frequency : 0.45 ~ 30 MHz



EUT's Test Arrangement of Conduction

Compact Anechoic Chamber (W 3.0m × D 7.0m × H 3.0m)



Test Configuration

No.	Device	MODEL No.	FCC ID	S/N	Manufacturer
EUT	DIGITAL CAMERA	Fine Pix 6800Zoom	F5GFP-6800	RJ0006	FUJI PHOTO FILM CO. , LTD
A	PC NOTE BOOK COMPUTER	PCG-505TR	DOC	3415556	SONY
B	PORT REPLICATOR	PCGA-PR5	DOC	126219	SONY
C	FLOPPY DISK DRIVE	PCGA-FD5	DOC	1215376	SONY
D	CD-ROM DRIVE	PCGA-CD51	DOC	3101473	SONY
E	AC ADAPTER	PCGA-AC51		9906A0361473	SONY
F	KEY BOARD	SKR-2233	GJJSKR-223C9	8AAE001175	SEJINER ELECTON , Inc.
G	MOUSE	2.1A	C3KKMP3	02209569	MICRO SOFT
H	PC MONITOR	M2978	BEJCA500	CY5430HF3CV	LG ELECTRONICS
I	SCANNER	AS1	F5GAS-1	0009	FUJI PHOTO FILM CO. , LTD
J	DIGITAL CAMERA	MX 2900 Zoom	F5GDX-9	U000015	FUJI PHOTO FILM CO. , LTD
K	AC ADAPTER	AC-5VS		9003	FUJI PHOTO FILM CO. , LTD
L	AC ADAPTER	AC-5VN		9914	FUJI PHOTO FILM CO. , LTD

TDK Application No. : TDC-00-1204

Connection Cables

No.	I/F & Power Cable	Model No.	Cable Length	Feraite Core	Manufacturer
1	USB CABLE	-----	1.50 m	YES	SHIELD YES
2	AC ADAPTOR CABLE	-----	1.90 m	YES	
3	RS232C CABLE	-----	2.00 m	YES	SHIELD YES
4	AC ADAPTOR CABLE	-----	1.90 m	YES	
5	SCSI CABLE	-----	1.50 m	YES	SHIELD YES
6	AC CABLE(SCANNER)	-----	1.80 m		
7	PORT REPLICATOR CABLE	-----	0.20 m	YES	SHIELD YES
8	CD-ROM CABLE	-----	0.30 m	YES	SHIELD YES
9	FLOPPY DRIVE CABLE	-----	0.10 m	YES	SHIELD YES
10	AC ADAPTOR CABLE(PC)	-----	2.20 m		
11	MOUSE CABLE	-----	1.90 m		SHIELD YES
12	KEY BOARD CABLE	-----	1.10 m		SHIELD YES
13	PC MONITOR CABLE	-----	1.65 m	YES	SHIELD YES
14	PC MONITOR POWER CABLE	-----	1.70 m		

CONDUCTION MEASUREMENT

CONFIGURATION FRONT VIEW



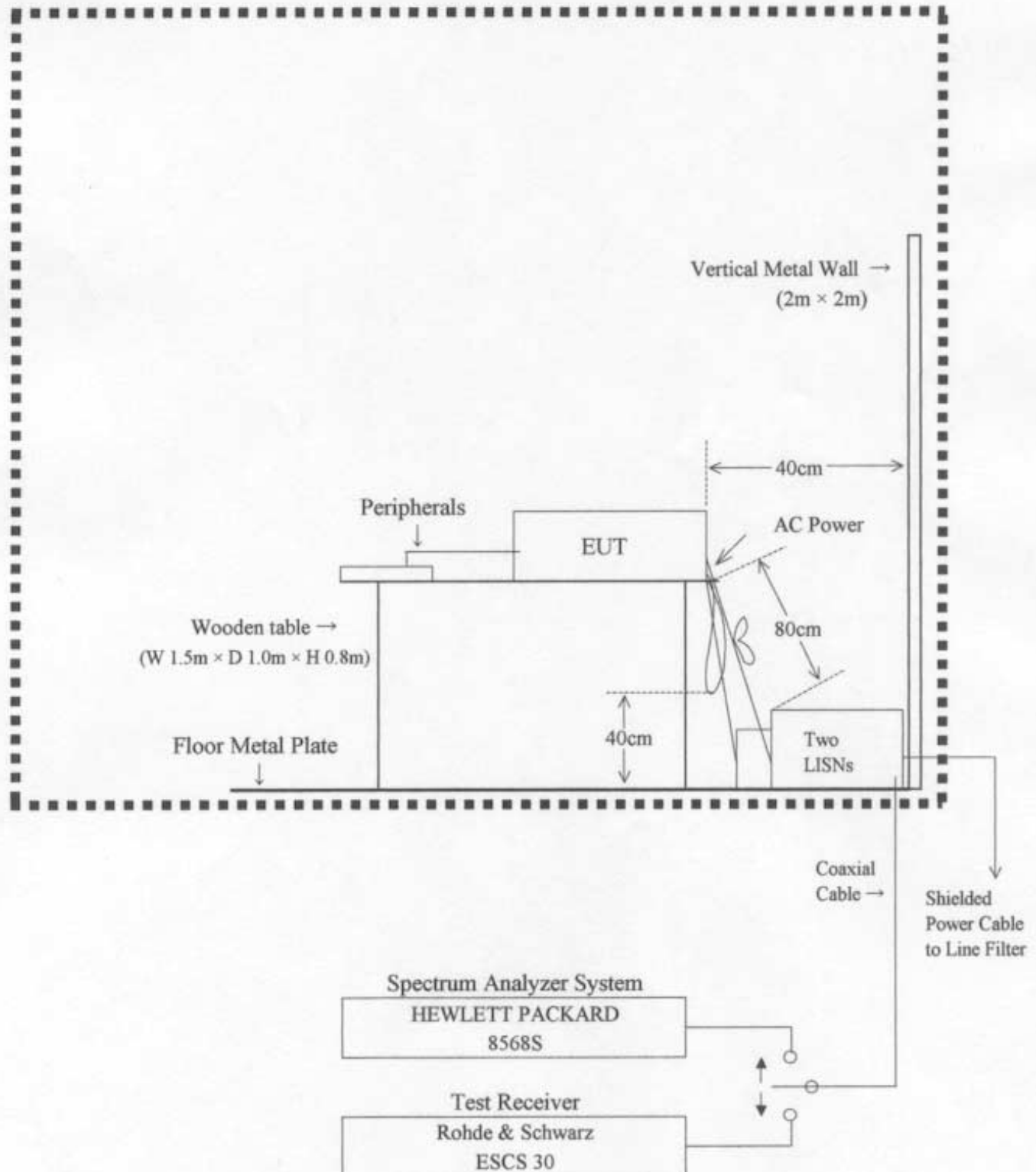
CONFIGURATION SIDE VIEW



EUT's Test Arrangement of Conduction

Fig 2

Compact Anechoic Chamber (W 3.0m × D 7.0m × H 3.0m)



TDK Application No. : TDC-00-1204

MEASURING INSTRUMENT USED

TDK APPLICATION No. : TDC-00-1204

☐	<u>Instrument</u>	<u>Model No.</u>	<u>Manufacturer</u>	<u>ID No.</u>	<u>Last Calibration Date</u>	<u>Period</u>
☒	Spectrum Analyzer	8568B	Hewlett-Packard	2445A00924	Apr. 2000	1 year
☒	RF-Preselector	85685A	Hewlett-Packard	2648A00481	Apr. 2000	1 year
☒	Field Strength Meter	ESCS 30	Rohde & Schwarz	825788/007	Apr. 2000	1 year
☒	Field Strength Meter	ESCS 30	Rohde & Schwarz	834115/020	Feb. 2000	1 year
☐	Field Strength Meter	ESMI	Rohde & Schwarz	61360008	Oct. 2000	1 year
☒	Pre - Amplifier	8447D	Hewlett-Packard	2443A04539	Mar. 2000	1 year
☐	Pre - Amplifier	8449B	Hewlett-Packard	3008A01391	Apr. 2000	1 year
☒	Biconical Antenna	BBA9106	Schwarzbeck	D-6901 No.2	Apr. 2000	1 year
☒	Log-Periodic Antenna	UHALP9107	Schwarzbeck	424/517	Apr. 2000	1 year
☐	Dipole Antenna	VHA9103	Schwarzbeck	D-6901 No.3	Apr. 2000	1 year
☐	Dipole Antenna	UHA9105	Schwarzbeck	29-14066	Apr. 2000	1 year
☒	LISN (50 μ H/50 Ω)	KNW-407	Kyoritsu Electrical Works	8-680-7	Mar. 2000	1 year
☒	LISN (50 μ H/50 Ω)	KNW-407	Kyoritsu Electrical Works	8-823-10	Mar. 2000	1 year
☐	LISN (50 μ H/50 Ω)	KNW-408	Kyoritsu Electrical Works	8-652-35	Mar. 2000	1 year
☐	LISN (50 μ H/50 Ω)	ESH2-Z5	Rohde & Schwarz	881 362/011	Apr. 2000	1 year
☒	Open Test Site	TCO-10	TDK Corporation	GD-0043-5	Apr. 2000	1 year
☒	Co-axial Cable	AK9513	Schwarzbeck	N-C007	Mar. 2000	1 year
☐	Co-axial Cable	8D-2V	Shinagawa Densen	N-C012	Mar. 2000	1 year
☐	Co-axial Cable	8D-2V	Shinagawa Densen	N-C013	Mar. 2000	1 year
☒	Co-axial Cable	8D-2V	Shinagawa Densen	N-C014	Mar. 2000	1 year
☒	Co-axial Cable	8D-2V	Shinagawa Densen	N-C016	Mar. 2000	1 year
☒	Co-axial Cable	5D-2W	Shinagawa Densen	N-C017	Mar. 2000	1 year
☒	RF Switch (EMI Interface)	MP59B	Anritsu	N-C025	Mar. 2000	1 year