



FUJI PHOTO FILM CO.,LTD.

26-30, NISHIAZABU 2-CHOME,

MINATO-KU, TOKYO 106, JAPAN

Telephone: (03) 3406-2934

Facsimile : (03) 3406-9967

FCC ID : F5GDX-8

Part 15 Sub.part B Class B Digital Device

Exhibit C

TEST RESULTS



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7. TEST RESULTS

7.1 Conducted Radio Noise Measurement

7.1.1 Measurement Instrumentation Used:

(Model / Serial No. / Manufacturer)

Test Receiver ----- (ESH-3 / 872079-020 / Rohde & Schwarz)

L. I. S. N ----- (KNW-407 / 8-823-10 / Kyoritu Electrical)

L. I. S. N ----- (KNW-407 / 8-680-7 / Kyoritu Electrical)

Spectrum Analyzer System ----- (8568S / 2445A00924 / Hewlett Packard)

7.1.2 Measurement Procedure:

The power line conducted interference measurements were performed in a shield enclosure with peripherals placed on a table, 80cm high over a metal floor.

It was located more than required distance away from the shielded enclosure wall.

The EUT was plugged into the L.I.S.N. and the frequency range of interest scanned.

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7.1.3 Test Data

Table 7.1-1 Conducted Radio Noise Measurement Results:

Operating mode: Camera Mode

Date of measurement: May 18, 1998

Test Procedure: ANSI C63.4-1992

Temperature: 20 degree C

Humidity: 69%

<i>Frequency</i>	<i>Results</i>		<i>Results</i>	<i>Limit</i>	<i>Margin</i>
	<i>Meter Reading.</i>		<i>Emission Level</i>		
	<i>VA.</i>	<i>VB.</i>			
<i>(Mhz)</i>	<i>(dBuV/m)</i>		<i>(dBuV/m)</i>	<i>(dBuV/m)</i>	<i>(dBuV/m)</i>
0.4500	40.7	39.5	40.7	47.9	7.2
0.5240	42.3	42.5	42.5	47.9	5.4
0.6990	41.2	40.9	41.2	47.9	6.7
0.8720	38.1	35.3	38.1	47.9	9.8
1.0480	39.5	38.2	39.5	47.9	8.4
1.2220	36.0	33.9	36.0	47.9	11.9
1.7440	34.2	34.3	34.3	47.9	13.6
5.0600	31.5	31.0	31.5	47.9	16.4

Note:

- 1) Emission Levels are higher levels of VA or VB of Meter Readings + Correction Factor.
- 2) VA: Between one end of the power cable and the grounded.
VB: Between the other end of power cable and the grounded.
- 3) Margin = Limit - Emission Level

7.1.4 Conducted Radio Noise Calculation

The conducted radio noise is calculated by adding the calibration factor to the measured reading. The basic equation and a sample calculation are as follows:

$$\text{CRN} = \text{TRM} + \text{CF}$$

$$\text{Margin} = \text{Limit} - \text{CRN}$$

where CRN = Conducted Radio Noise (dBuV)

TRM = Test Receiver Reading (dBuV)

CF : Correction Factor (dB/m)

The Correction factor includes cable loss and LISN factor.



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7.2 Radiated Radio Noise Measurement

7.2.1 Measurement Instrumentation Used :

(Model / Serial No. / Manufacturer)

Test Receiver ----- (ESVP / 879529-016 / Rohde & Schwarz)

Bi-Conical Antenna ----- (BBA9106 / ---- / Schwarzbeck)

Log-Periodic Antenna ----- (UHALP9107 / 9107424 / Schwarzbeck)

Spectrum Analyzer System ----- (8568S / 2445A00924 / Hewlett Packard)

7.2.2 Measurement Procedure:

The EUT was placed in a 80cm high table along with the peripherals.

The turn table was separated from the antenna at a distance of 3 meter. Cables were placed in a position to produce maximum emission as determined by experimentation, and operation mode was selected for maximum.

The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities.



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7.2.3 Test Data

Table 7.2-1 Radiated Radio Noise Measurement Results:

Operating mode: Camera Mode

Test Procedure: ANSI C63.4-1992

Date of measurement: May 18, 1998

Temperature: 25 degree C

Humidity: 62 %

Frequency (Mhz)	Correction Factor (dB)	Results		Results	Limit (dBuV/m)	Margin (dBuV/m)
		Meter Reading.		Emission Level		
		(dBuV/m)		(dBuV/m)		
		Hori.	Vert.			
46.540	13.7	-	28.6	28.6	40.0	11.4
120.250	15.4	31.6	32.2	32.2	43.5	11.3
125.100	15.9	34.0	32.9	34.0	43.5	9.5
140.300	17.0	30.9	33.1	33.1	43.5	10.4
184.440	19.1	26.5	-	26.5	43.5	17.0
220.460	20.6	34.2	31.4	34.2	46.0	11.8
312.130	19.7	-	35.2	35.2	46.0	10.8
340.510	20.5	-	37.4	37.4	46.0	8.6
360.720	21.0	33.9	34.3	34.3	46.0	11.7
411.440	22.2	36.5	40.1	40.1	46.0	5.9
420.830	22.4	38.0	40.1	40.1	46.0	5.9

Note: 1) Meter Readings are corrected by all Correction Factors.

2) Emission Levels are higher levels of Hori. or Vert. of Meter Readings.

3) Margin = Limit - Emission Level.



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Part 15 Sub.part B Class B Digital Device

7.2.4 Radiated Radio Noise Calculation

The radiated radio noise is calculated by adding the correction factor to the measured reading. The basic equation and a sample of calculation are as follows;

$$RRN = TRM + CF$$

$$\text{Margin} = \text{Limit} - RRN$$

where RRN = Radiated Radio Noise (dBuV)

TRM = Test Receiver Reading (dBuV)

CF : Correction Factor (dB/m), The correction factor includes pre-amplifier gain, cable loss and antenna factor.

TDK CORPORATION
2-15-7 HIGASHI-OWADA ICHIKAWA-SHI
CHIBA 272 01 JAPAN

TDK EMC CENTER
CHIKUMAGAWA OPEN SITE
543 OTAI SAKU-CITY NAGANO JAPAN

REPORT OF MEASUREMENTS ON DIGITAL DEVICE

DATE: May 21, 1998
Issued in: Saku-city, Japan

TDK APPLICATION No. : TDC-98-0507 (3)

1. Applicant : FUJI PHOTO FILM CO., LTD.
13-45, SENZUI 3-CHOME, ASAKA-SHI, SAITAMA
351-8585 JAPAN
2. Factory : FUJIFILM IMAGING DEVICES (SUZHOU) CO., LTD.
138 CHANG JIANG ROAD, NEW DISTRICT,
SUZHOU, JIANGSU, CHINA
3. Description of Equipment Under Test (EUT)
 - 3-1 EUT : DIGITAL CAMERA
 - 3-2 Category : Class B DIGITAL DEVICE
 - 3-3 FCC ID : F5GDX-8
 - 3-4 Trade Name : FUJIFILM
 - 3-5 Model No. : DX-8
 - 3-6 Serial No. : PPU0001
 - 3-7 Date of Manufacture : April 16, 1998
 - 3-8 Power Supply : 120 V AC, 60Hz
4. Regulation Applied : FCC Part 15 Subpart B Class B at 3m
5. Measurement Procedure Used : ANSI C63.4-1992
6. Place of Measurement : TDK EMC CENTER CHIKUMAGAWA OPEN SITE
7. Date of Measurement : May 18, 1998
8. Measurement Results : The results are as shown in the attached sheets. As a result, the EUT passes.

Shigeru Mogi

Shigeru Mogi

Chief of TDK CHIKUMAGAWA

OPEN SITE

Temp. : 25°C: Humi. : 62%

6dB band width:120kHz External Attenuator:none

Mode 1 No. : DX-8

3) Operating Condition: CAMERA mode.

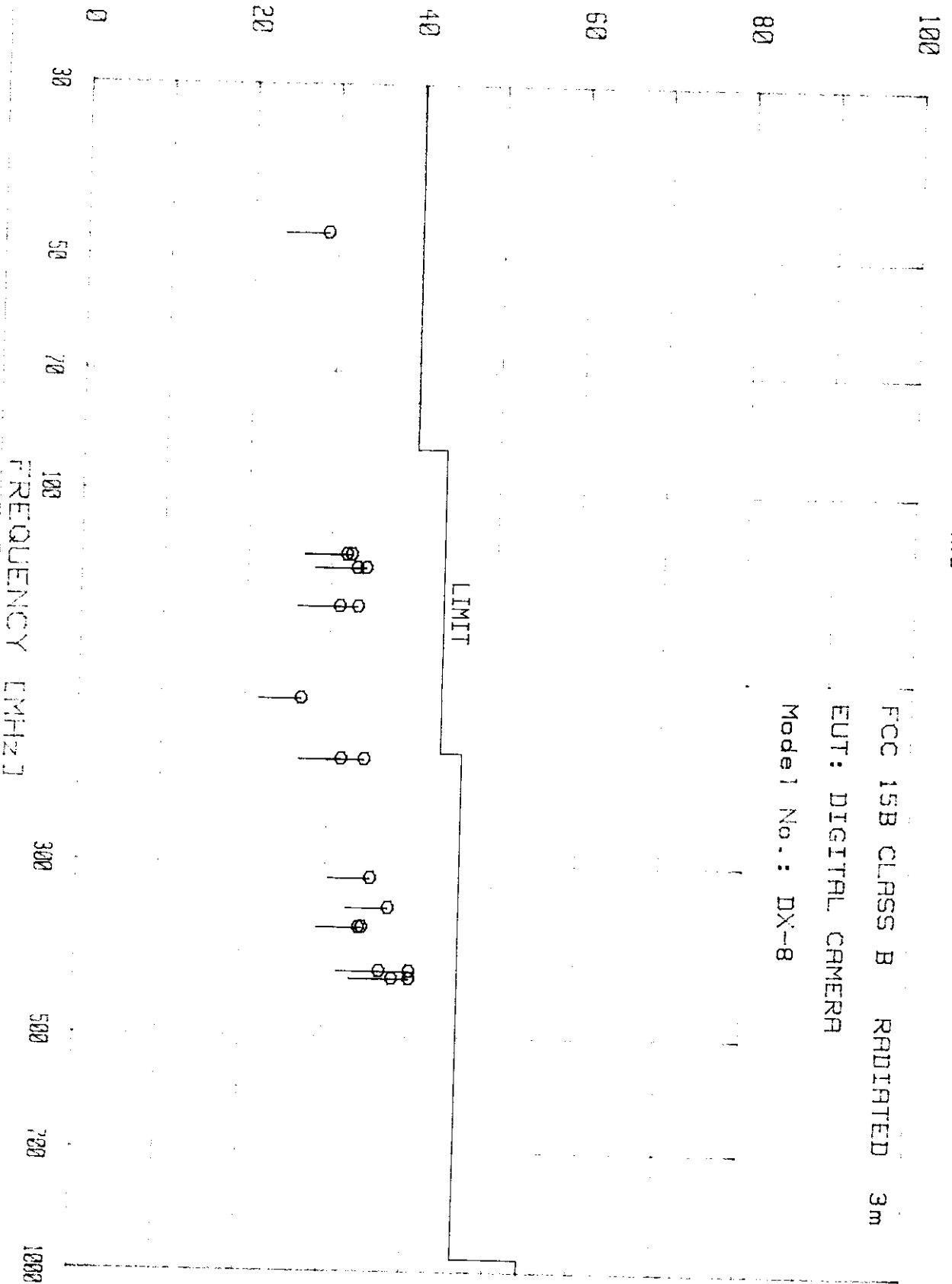
Notes: 1) Meter Readings are corrected by all Correction Factors.
2) Emission Levels are higher levels of Hori. or Vert. of Meter Readings.
3) Margin = Limit - Emission Level.

CHIKUMAGAWA OPEN SITE

TDK EMC CENTER
EMISSION LEVEL [dBuV/m]

May 18, 1998

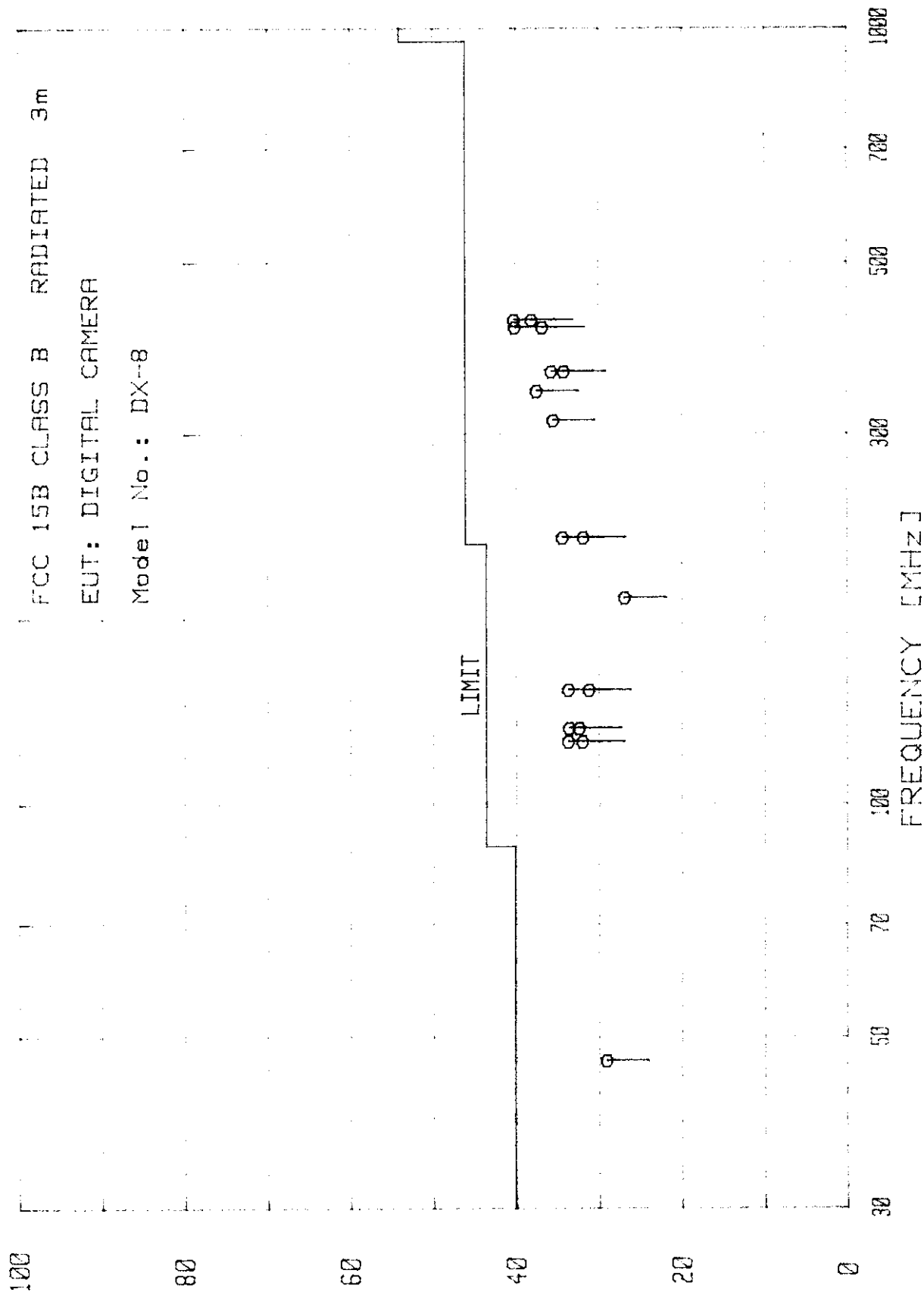
FCC 15B CLASS B RADIATED 3m
EUT: DIGITAL CAMERA
Model No.: DX-8

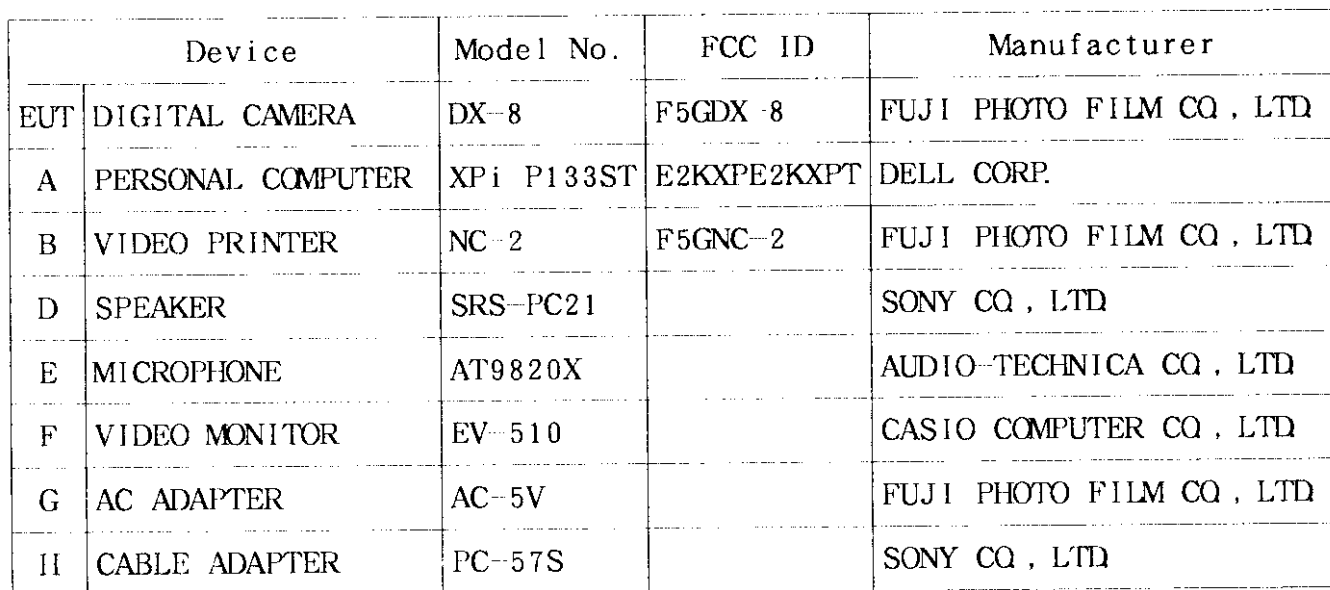


Kunihiko Ooi
Kunihiko Ooi
Engineer of TDK EMC CENTER
CHIKUMAGAWA OPEN SITE

TDK EMC CENTER
EMISSION LEVEL [dBuV/m]

May 18, 1998

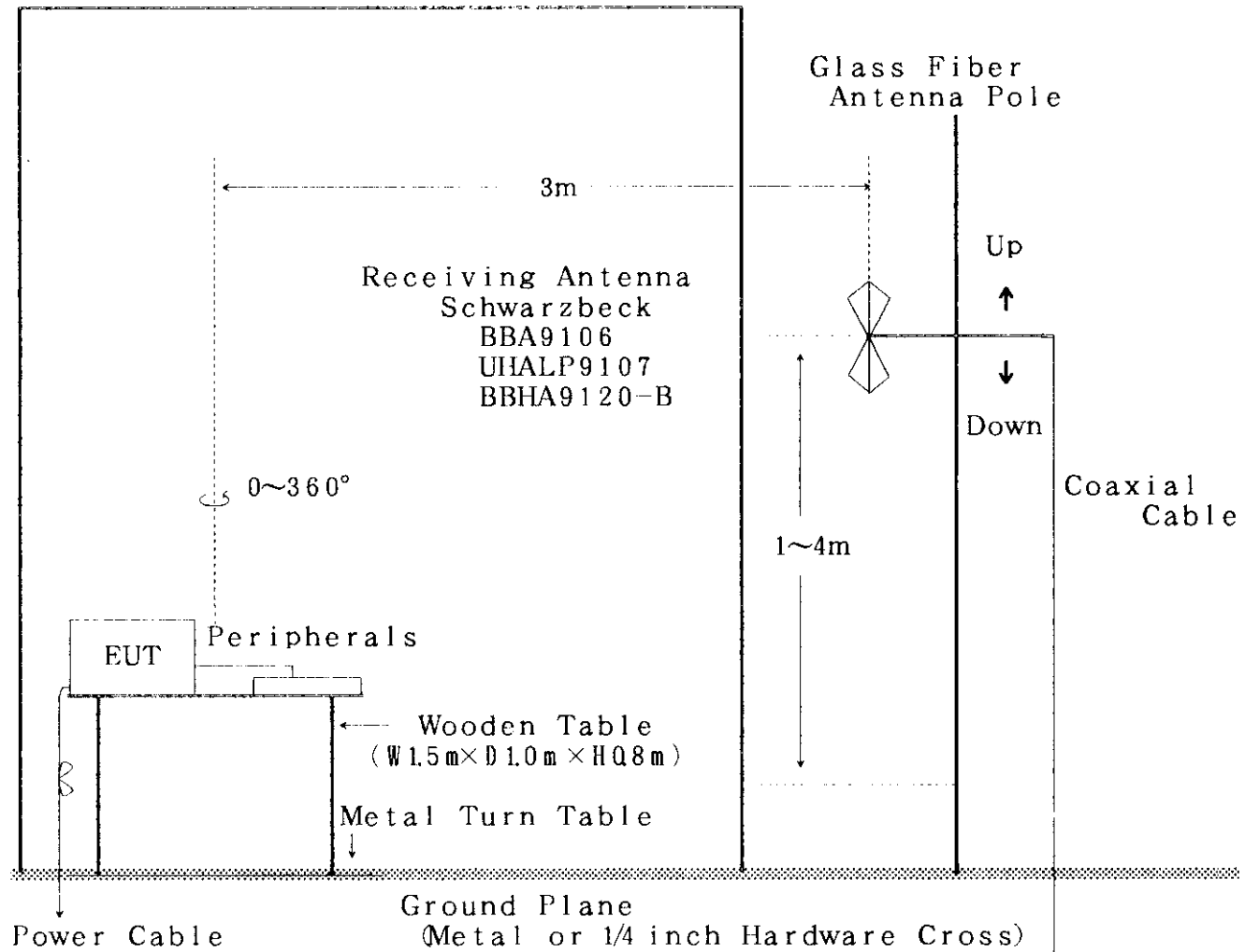




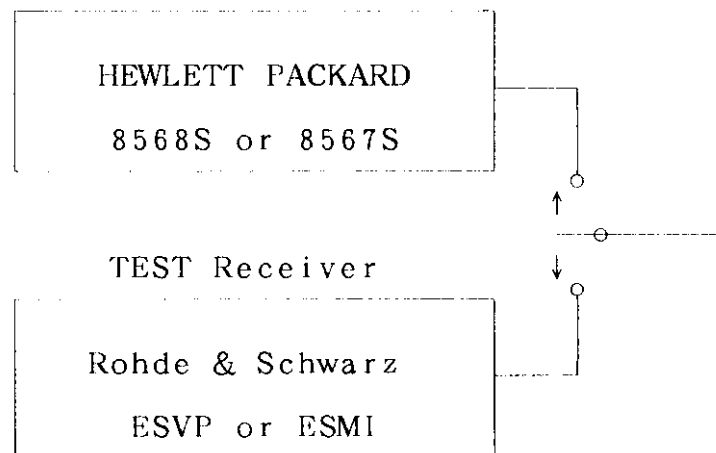
Cable		Cable Length	Special Attribute
I	SCANNER CABLE	1.5 m	Ferrite Core (1 piece)
J	SPEAKER CABLE	2.0 m	
K	MICROPHONE CABLE	1.6 m	
L	PRINTER AC CABLE	1.8 m	
M	RS232C CABLE	2.0 m	
N	AC ADAPTER CABLE	1.8 m	Ferrite Core (1 piece)
O	VIDEO CABLE	1.5 m	
P	CABLE ADAPTER CABLE	0.35m	

Test Arrangement of Radiation

Non-metallic (F.R.P.) Dome (W80m×D63m×H55m)



Spectrum Analyzer System

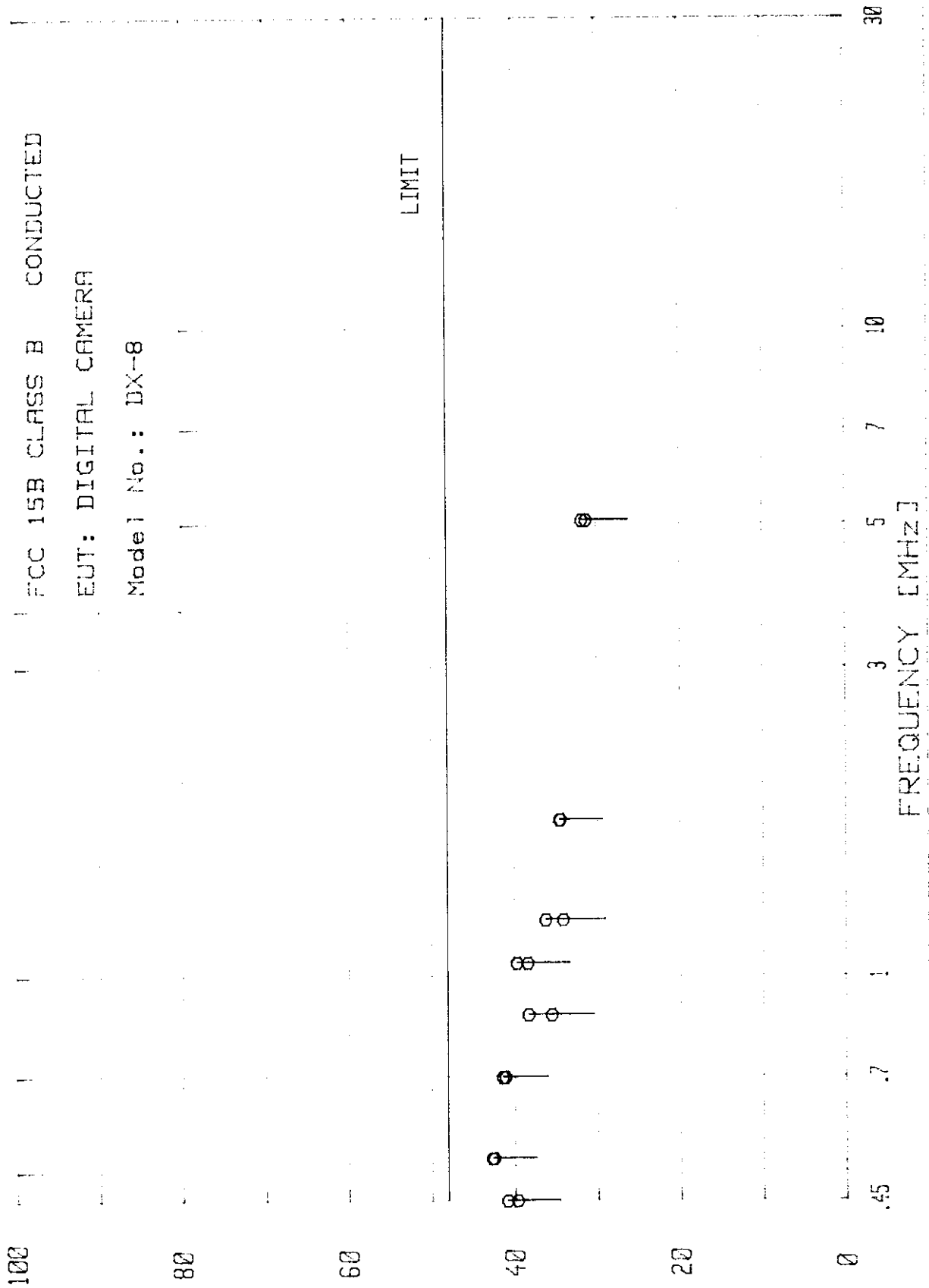


Temp. : 20°C: Humi. : 69%

Kunihiko Ooi
Kunihiko Ooi
Engineer of TDK EMC CENTER
CHIKUMAGAWA OPEN SITE

May 18, 1998

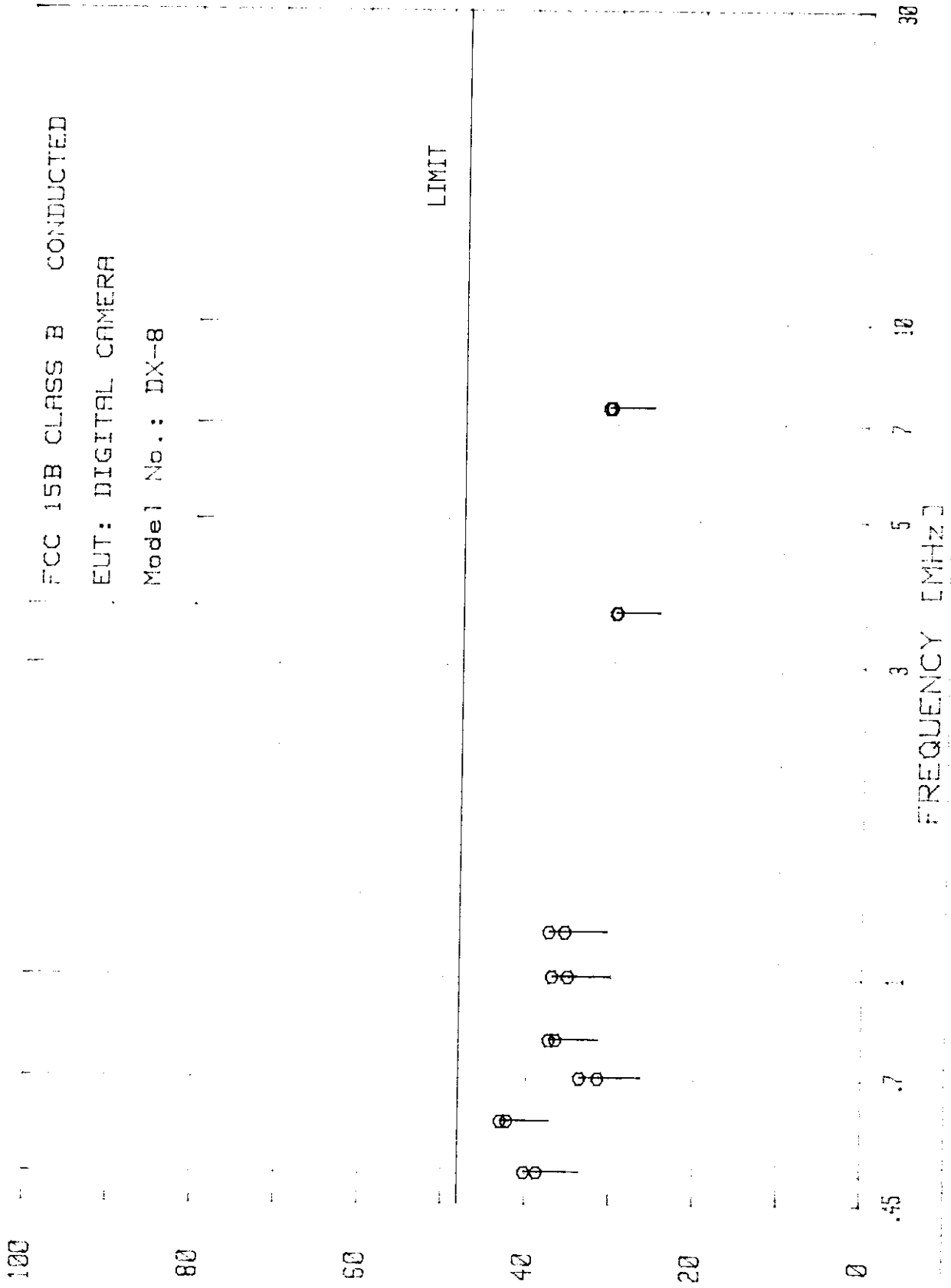
TDK EMC CENTER
EMISSION LEVEL [dBuV]



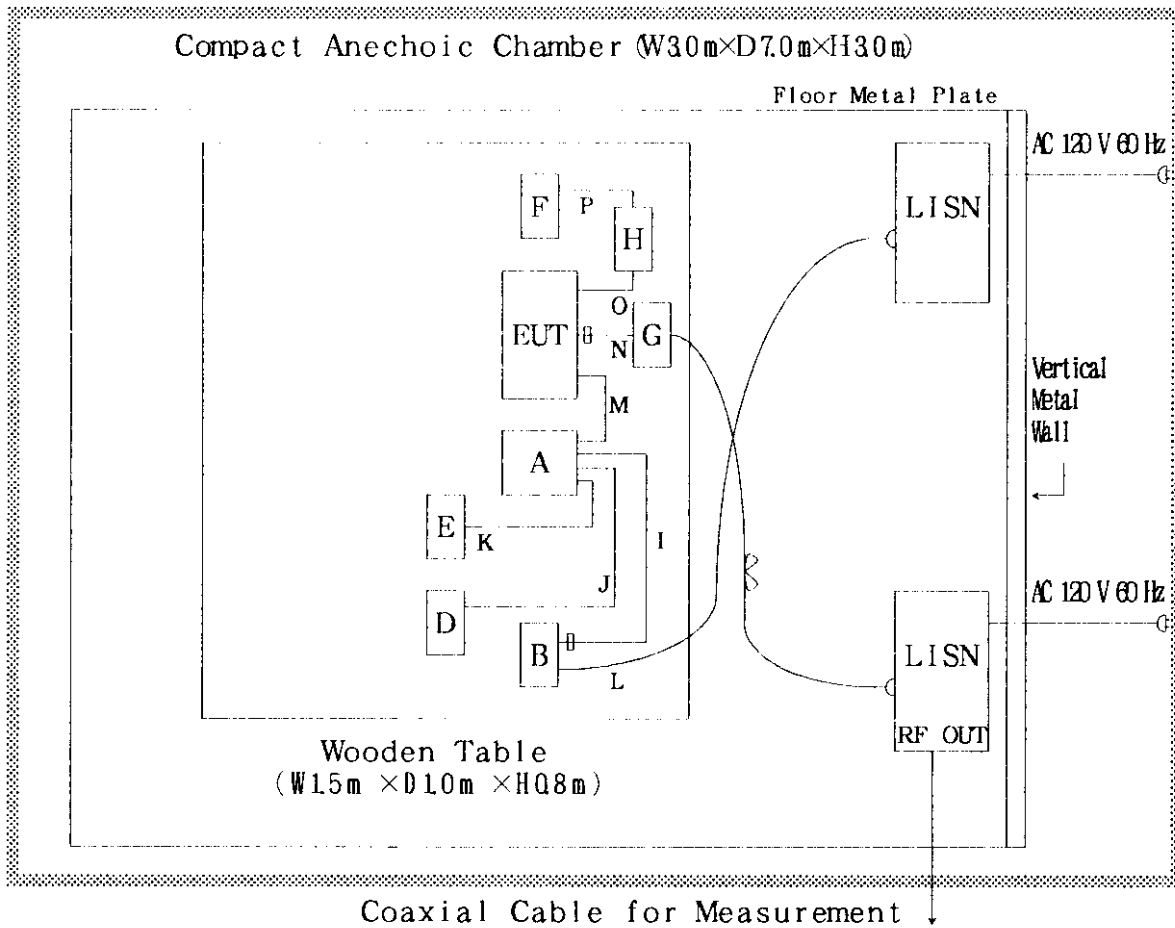
Kunihiko Ooi
Engineer of TDK EMC CENTER
CHIKUMAGAWA OPEN SITE

TDK EMC CENTER
EMISSION LEVEL [dBuV]

May 18, 1998



EUT'S Test Arrangement of Conduction



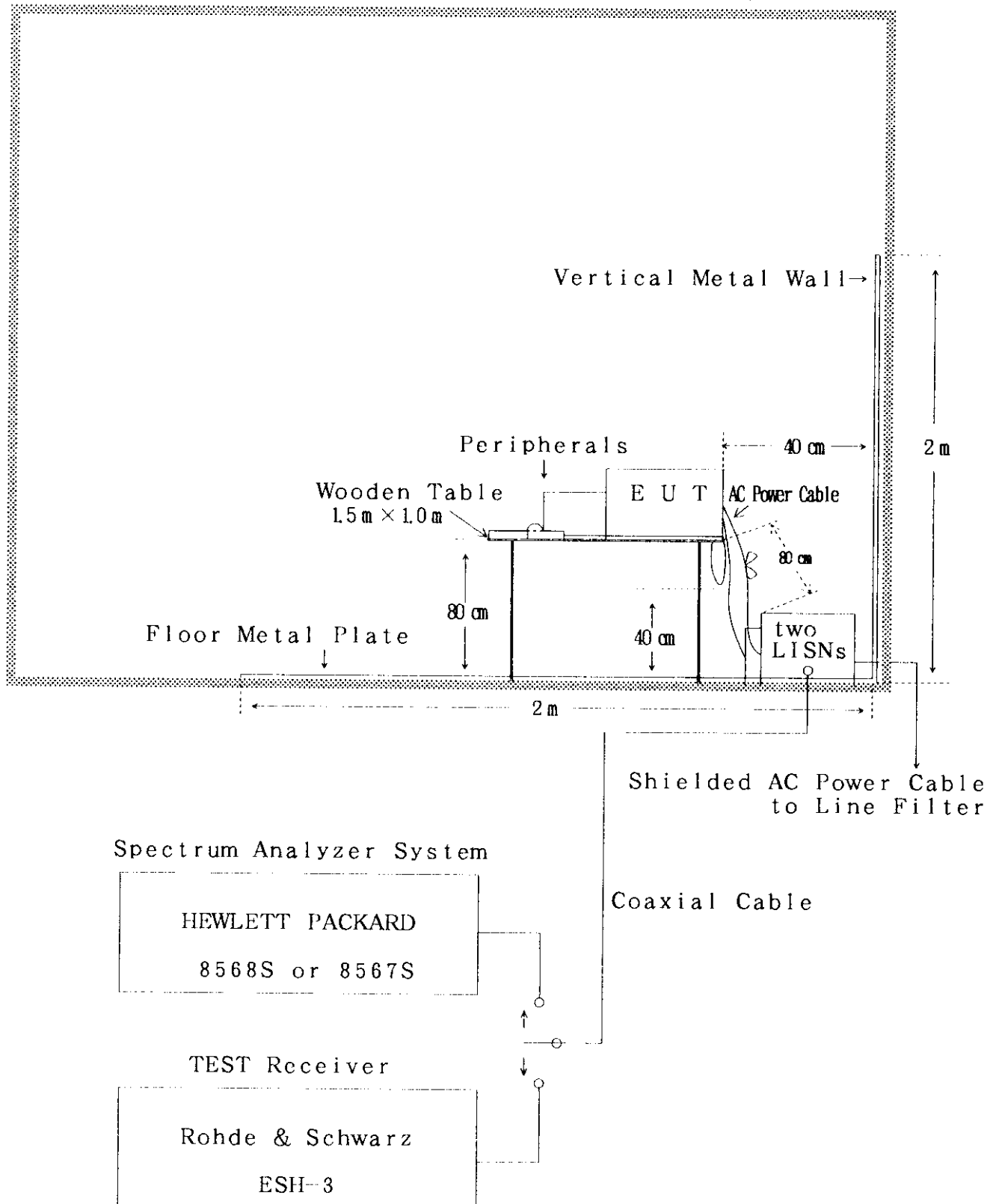
	Device	Model No.	FCC ID	Manufacturer
EUT	DIGITAL CAMERA	DX-8	F5GDX 8	FUJ I PHOTO FILM CQ , LTD
A	PERSONAL COMPUTER	XPi P133ST	E2KXPE2KXPT	DELL CORP.
B	VIDEO PRINTER	NC 2	F5GNC-2	FUJ I PHOTO FILM CQ , LTD
D	SPEAKER	SRS-PC21		SONY CQ , LTD
E	MICROPHONE	AT9820X		AUDIO-TECHNICA CQ , LTD
F	VIDEO MONITOR	EV-510		CASIO COMPUTER CQ , LTD
G	AC ADAPTER	AC-5V		FUJ I PHOTO FILM CQ , LTD
H	CABLE ADAPTER	PC-57S		SONY CQ , LTD

MEASURING EQUIPMENTS USED:

Equipments	Manufacturer	Model No.	Serial No.
☒ Test Receiver	Rohde & Schwarz	ESVP	879529/016
☒ Test Receiver	Rohde & Schwarz	ESH 3	872079/020
☐ Test Receiver	Rohde & Schwarz	ESMI	61360008
☐ Artificial Mains Network (50 μ H+5 Ω /50 Ω)	Rohde & Schwarz	ESH2-Z5	881362/011
☒ Artificial Mains Network (50 Ω /50 μ H)	Kyoritsu Electrical	KNW-407	8-823-10
☒ Artificial Mains Network (50 Ω /50 μ H)	Kyoritsu Electrical	KNW-407	8-680-7
☐ Artificial Mains Network (50 Ω /50 μ H)	Kyoritsu Electrical	KNW-242	8-701-5
☐ Artificial Mains Network (50 Ω /50 μ H)	Kyoritsu Electrical	KNW-408	8-652-3
☐ T-Network	Rohde & Schwarz	ESH3-Z4	860666/021
☐ Absorbing Clamp	Rohde & Schwarz	MDS21	301379/032
☐ Loop Antenna	Rohde & Schwarz	HFH2-Z2	881056/41
☐ Dipole Antenna	Schwarzbeck	VHA9103/ UHA9105	---
☐ Horn Antenna	Schwarzbeck	BBHA9120-B	---
☒ Bi-Conical Antenna	Schwarzbeck	BBA9106	---
☒ Log-Periodic Antenna	Schwarzbeck	UHALP9107	9107424
☐ Spectrum Analyzer System	Hewlett Packard	8567S	2727A00488
☒ Spectrum Analyzer System	Hewlett Packard	8568S	2445A00924

Test Arrangement of Conduction

Compact Anechoic Chamber (W30m×D7.0m×H30m)



Cable		Cable Length	Special Attribute
I	SCANNER CABLE	1.5 m	Ferrite Core (1 piece)
J	SPEAKER CABLE	2.0 m	
K	MICROPHONE CABLE	1.6 m	
L	PRINTER AC CABLE	1.8 m	
M	RS232C CABLE	2.0 m	
N	AC ADAPTER CABLE	1.8 m	Ferrite Core (1 piece)
O	VIDEO CABLE	1.5 m	
P	CABLE ADAPTER CABLE	0.35m	