FUJIFILM

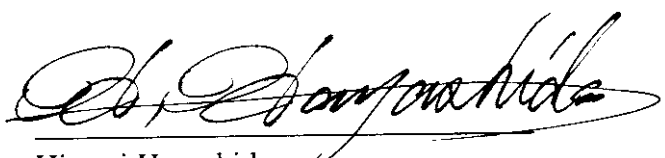
FUJI PHOTO FILM CO.,LTD.
26-30, NISHIAZABU 2-CHOME,
MINATO-KU, TOKYO 106, JAPAN
Telephone: (03) 3406-2934
Facsimile : (03) 3406-9967

File No. DF-98-002

Federal Communications Commission

TECHNICAL DOCUMENTATION FILE OF DIGITAL CAMERA MODEL MX-500

FCC ID : **F5GMX-500**
Category : Part 15 Sub.part B Class B Digital Device
Date of Issue : June 8, 1998



Hiromi Hayashida
Product Safety Engineer
Fuji Photo Film Co., Ltd.

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FCC ID : **F5GMX-500**
Part 15 Sub.part B Class B Digital Device

Contents

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1.APPLICANT AND FACTORY

(1) Applicant: Fuji Photo Film Co., Ltd.
26-30, Nishiazabu 2-chome, Minato-ku, Tokyo 106 Japan

(2) Factory: FUJIX CO., LTD.
1-6, Matsuzakadaira, Taiwa-Cho, Kurokawa-Gun,
Miyagi-Ken 981-36 Japan

2. DESCRIPTION OF DEVICE

(1) Kind of Equipment: DIGITAL CAMERA

(2) Category: Class B Digital Device

(3) FCC ID: F5GMX-500

(4) Trade Mark: FUJIFILM

(5) Model No.: MX-500

(6) Type of Sample Tested: Pre-Production

(7) High Frequency Used: 7.3700MHz (CPU Clock for Main / IC201)
24.5454MHz (Signal Processor / IC404)
32.7680KHz (CPU Clock for Calendar / IC201)

(8) Rating Power Supply: 5Vdc (DC Power was controlled by AC Adaptor)

(9) Tested Power Supply: 120V AC, 60Hz

(10) Date of Manufacture: April 24, 1998

(11) Description of the marked and available configuration: Refer to "Exhibit A"

(12) Description of Operation The worst operation mode is "*Camera Mode*".

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3. SUMMARY OF OPERATION AND FUNCTION

FUJIFILM, Model MX-500 is a digital still camera that captures high-quality, highly digital images at 1.5 million-pixels and records them onto an image memory card, SSFDC (Solid-State Floppy Disk Card).

This camera has features of a high-speed 1/1,000-sec. shutter that is suited to high-resolution photography.

This can take photographs while the image is viewed on a 2-inch LCD monitor and/or the external TV monitor during either Manual or Auto Camera mode.

The user can select one of 3 kinds of compression ratio to record as Exif-JPEG files for image data recording.

Featuring a high-performance RISC microprocessor, the MX-500 takes only 5 sec. to store an image. It's much faster than other megapixel digital camera.

This digital camera MX-500 can play back color images from an image memory card SSFDC and transfer the image data on the SSFDC to a personal computer.

This is compact and light-weight (weight: 300g excluding batteries, dimension: 123 (W) x 82 (H) x 36 (D) mm), so it's easy to take along.

4. TEST FACILITY

The open area test site and conducted measurement facility of TDK EMC Center used to collect the radiated data is located in 543 Otai, Saku-City, Nagano, Japan.

This TDK EMC Center Chikumagawa Open Site has been fully described in a report that they have submitted to your office, and accepted in your letter dated August 17, 1997 (31040 / SIT).

5. SUMMARY OF TEST RESULTS

Radiated Radio Noise Measurement ----------**PASS**
Conducted Radio Noise Measurement ----------**PASS**

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6. TESTED SYSTEM DETAILS

6.1 Peripherals and Others :

Description	*Model Name*	*Serial No.*	*Manufacturer*	*FCC ID*
Personal Computer	Xpi P133ST	98417	Dell Computer Corp.	E2KXPE2KXPT
TV. Monitor	EV-510	1052861A	Casio Computer Co., Ltd.	N/A
Video Printer	NC-2	6100018	Fuji Photo Film Co., Ltd.	F5GNC-2
Speaker	SRS-PC21	37554	Sony Corp.	N/A
Microphone	AT9820X	-	Audio-Technica Co., Ltd.	N/A
Cable Adapter	PC-57S	-	Sony Corp.	N/A
AC Adaptor(for EUT) AC-5V		9804Z	Fuji Photo Film Co., Ltd.	N/A
(for AC Adaptor of Digital Camera, Input: 120VAC, 60Hz, Output: 5VDC)				

Note:
* N/A: Equipment required for the Verification.

6.2 List of Cables :

Description	*Length*	*Type of shield*	*Ferrite Core*
EUT / Personal Computer	2.0 m	Shielded	N/A
Video Printer / Personal Computer	1.5 m	Shielded	Provided
EUT / Cable Adapter	1.5 m	Shielded	N/A
Cable Adapter / TV Monitor	0.35 m	Shielded	N/A
Speaker / Personal Computer	2.0 m	Shielded	N/A
Microphone / Personal Computer	1.6 m	Shielded	N/A
DC Power Cord (AC power adaptor)	1.8 m	Non-shielded	Add
Printer - AC Cord	1.8 m	Non-shielded	N/A

Note:
* Provided : The cable is an accessory for Personal Computer or Printer which was attached a ferrite core.

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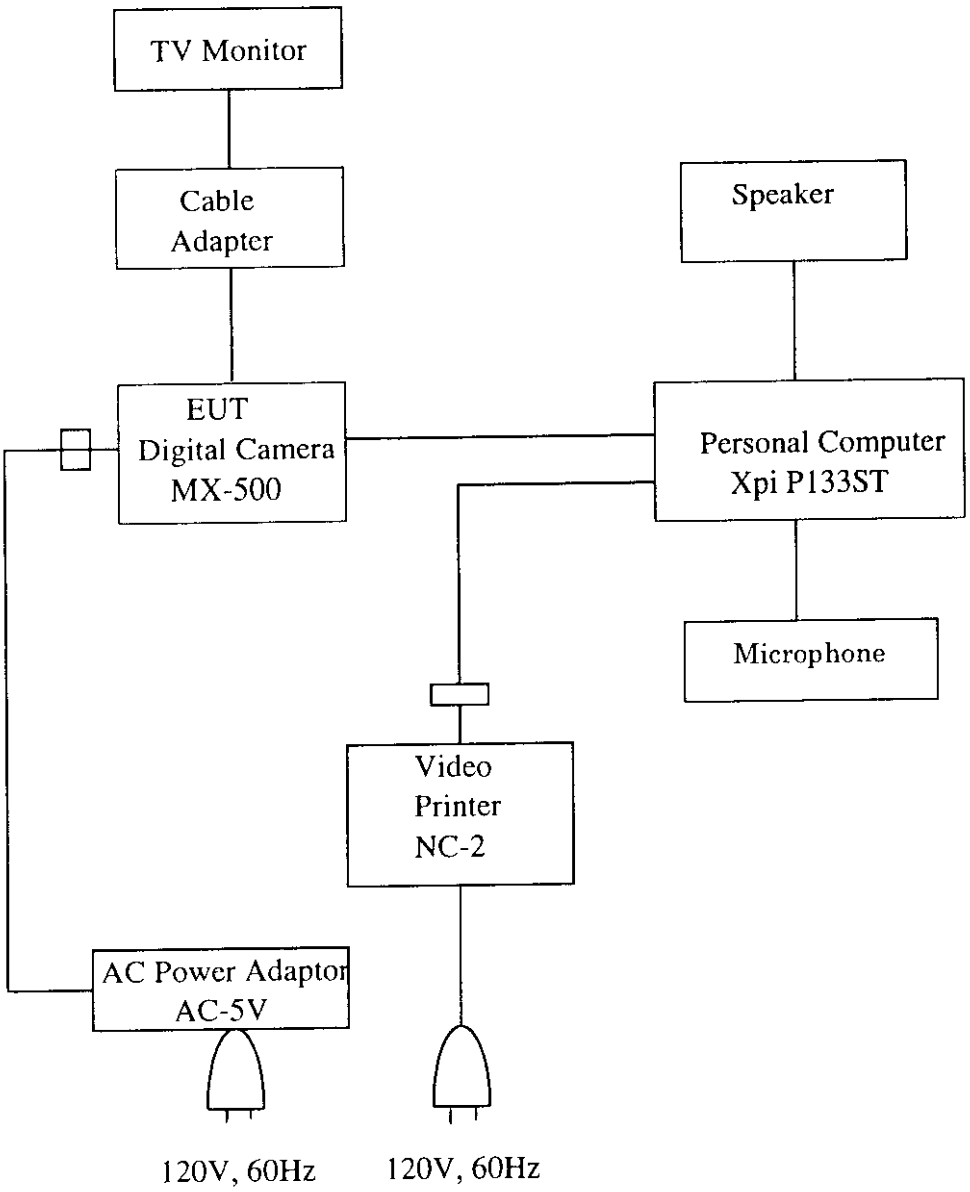
Figure 6-1 System Configuration Diagram :



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FCC ID : **F5GMX-500**
Part 15 Sub.part B Class B Digital Device

Exhibit B

PHOTOGRAPH OF EUT

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Exhibit C

TEST RESULTS

FUJIFILM

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Part 15 Sub.part B Class B Digital Device

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
Test Procedure: ANSI C63.4-1992

Date of measurement: May 18, 1998
Temperature: 25 degree C
Humidity: 62%

Frequency	*Results Meter Reading.*		*Results Emission Level*	*Limit*	*Margin*
	VA.	*VB.*			
(Mhz)	*(dBuV/m)*		*(dBuV/m)*	*(dBuV/m)*	*(dBuV/m)*
0.4960	42.2	42.0	42.2	47.9	5.7
0.5330	38.7	38.7	38.7	47.9	9.2
0.6600	41.1	39.9	41.1	47.9	6.8
0.8270	38.7	36.2	38.7	47.9	9.2
0.9910	40.9	39.4	40.9	47.9	7.0
1.1560	38.5	36.2	38.5	47.9	9.4
1.6530	34.1	34.5	34.5	47.9	13.4
5.6120	31.9	31.9	31.9	47.9	16.0

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:

CRN = TRM + CF
Margin = Limit - 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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Part 15 Sub.part B Class B Digital Device

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	*Correction Factor*	*Results Meter Reading.*		*Results Emission Level*	*Limit*	*Margin*
(Mhz)	*(dB)*	*(dBuV/m)*		*(dBuV/m)*	*(dBuV/m)*	*(dBuV/m)*
		Hori.	*Vert.*			
46.540	13.7	-	29.2	29.2	40.0	10.8
68.010	8.1	-	33.9	33.9	40.0	6.1
122.740	15.7	35.1	38.5	38.5	43.5	5.0
135.010	16.6	33.0	32.2	33.0	43.5	10.5
140.300	17.0	29.8	31.8	31.8	43.5	11.7
159.560	17.4	32.8	34.8	34.8	43.5	8.7
208.620	20.4	26.7	33.2	33.2	43.5	10.3
220.460	20.6	34.1	29.1	34.1	46.0	11.9
245.470	21.2	36.4	-	36.4	46.0	9.6
257.730	21.7	36.3	-	36.3	46.0	9.7
312.130	19.7	-	35.9	35.9	46.0	10.1
340.510	20.5	-	37.4	37.4	46.0	8.6
360.720	21.0	34.4	-	34.4	46.0	11.6
411.440	22.2	36.1	40.4	40.4	46.0	5.6
420.830	22.4	38.4	40.8	40.8	46.0	5.2

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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FCC ID : **F5GMX-500**
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
Margin = 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 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 (2)

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	: Class B DIGITAL DEVICE
3 3	FCC ID	: F5GMX-500
3 4	Trade Name	: FUJIFILM
3 5	Model No.	: MX-500
3 6	Serial No.	: 1575
3 7	Date of Manufacture	: April 24,1998
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

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 (2)

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	: Class B DIGITAL DEVICE
3 3	FCC ID	: F5GMX 500
3-4	Trade Name	: TOSHIBA
3-5	Model No.	: MX 500
3-6	Serial No.	: 1575
3 7	Date of Manufacture	: April 24, 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

MEASUREMENT RESULTS OF RADIATED RADIO NOISE AT 3m

Date: May 18, 1998
Temp. : 25℃: Humi. : 62%

Test Receiver: Rohde & Schwarz ESVP
Operation mode: Detector function: CISPR Quasi peak
6dB band width: 120kHz External Attenuator: none

Description of Device
EUT : DIGITAL CAMERA
Model No. : MX-500

Test Condition of EUT
1) Configuration : Refer to sheet No. 5, 6 and 7.
2) Ground : None
3) Operating Condition: CAMERA mode.

Frequency (MHz)	Correction Factor (dB)	Meter Reading (dBμV/m) Hori.	Meter Reading (dBμV/m) Vert.	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dBμV/m)
46.540	13.7		29.2	29.2	40.0	10.8
68.010	8.1		33.9	33.9	40.0	6.1
122.740	15.7	35.1	38.5	38.5	43.5	5.0
135.010	16.6	33.0	32.2	33.0	43.5	10.5
140.300	17.0	29.8	31.8	31.8	43.5	11.7
159.560	17.4	32.8	34.8	34.8	43.5	8.7
208.620	20.4	26.7	33.2	33.2	43.5	10.3
220.460	20.6	34.1	29.1	34.1	46.0	11.9
245.470	21.2	36.4		36.4	46.0	9.6
257.730	21.7	36.3		36.3	46.0	9.7
312.130	19.7		35.9	35.9	46.0	10.1
340.510	20.5		37.4	37.4	46.0	8.6
360.720	21.0	34.4		34.4	46.0	11.6
411.440	22.2	36.1	40.4	40.4	46.0	5.6
420.830	22.4	38.4	40.8	40.8	46.0	5.2

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.

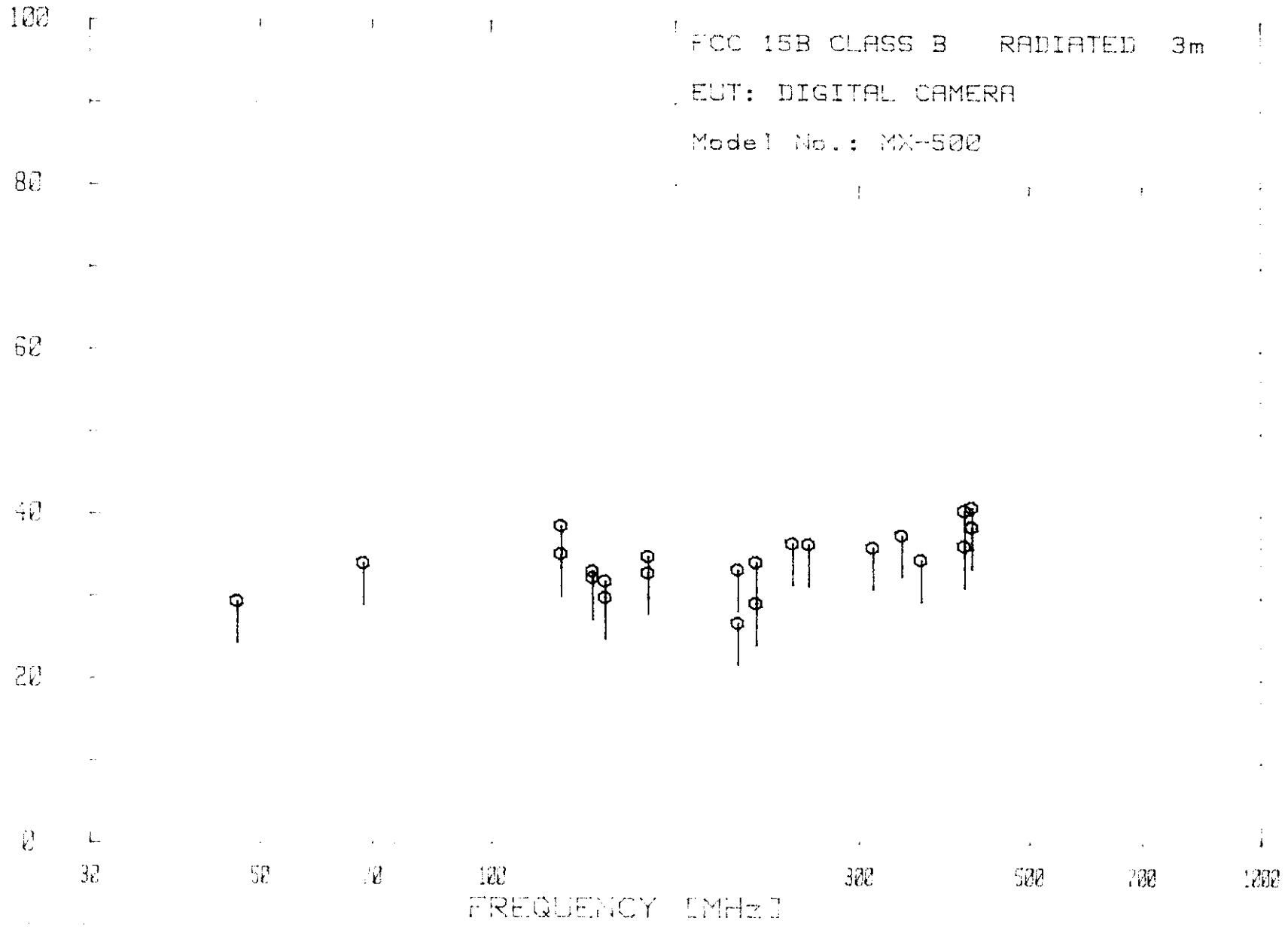
Kunihiko Ooi

Kunihiko Ooi
Engineer of TDK EMC CENTER
CHIKUMAGAWA OPEN SITE

TDK EMC CENTER

May 18,1998

EMISSION LEVEL [dBuV/m]



RADIO NOISE AT 3m

Date: May 18, 1998
Temp. : 25℃ Humi. : 62%

Test Receiver: Rohde & Schwarz ESVP
Operation mode: Detector function: CISPR Quasi peak
6dB band width: 120kHz External Attenuator: none

Description of Device
EUT : DIGITAL CAMERA
Model No. : MX 500

Test Condition of EUT
1) Configuration : Refer to sheet No. 5, 6 and 7.
2) Ground : None
3) Operating Condition: PLAYBACK mode.

Frequency (MHz)	Correction Factor (dB)	Meter Reading (dBμV/m) Hori.	Meter Reading (dBμV/m) Vert.	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dBμV/m)
46.540	13.7	---	29.0	29.0	40.0	11.0
120.210	15.4	30.6	32.5	32.5	43.5	11.0
125.110	15.9	33.7		33.7	43.5	9.8
140.300	17.0	30.0	33.2	33.2	43.5	10.3
220.450	20.6	34.5	28.9	34.5	46.0	11.5
312.130	19.7		36.0	36.0	46.0	10.0
340.510	20.5		37.3	37.3	46.0	8.7
360.720	21.0	34.4		34.4	46.0	11.6
411.440	22.2	36.1	40.0	40.0	46.0	6.0
420.830	22.4	38.6	40.4	40.4	46.0	5.6

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.

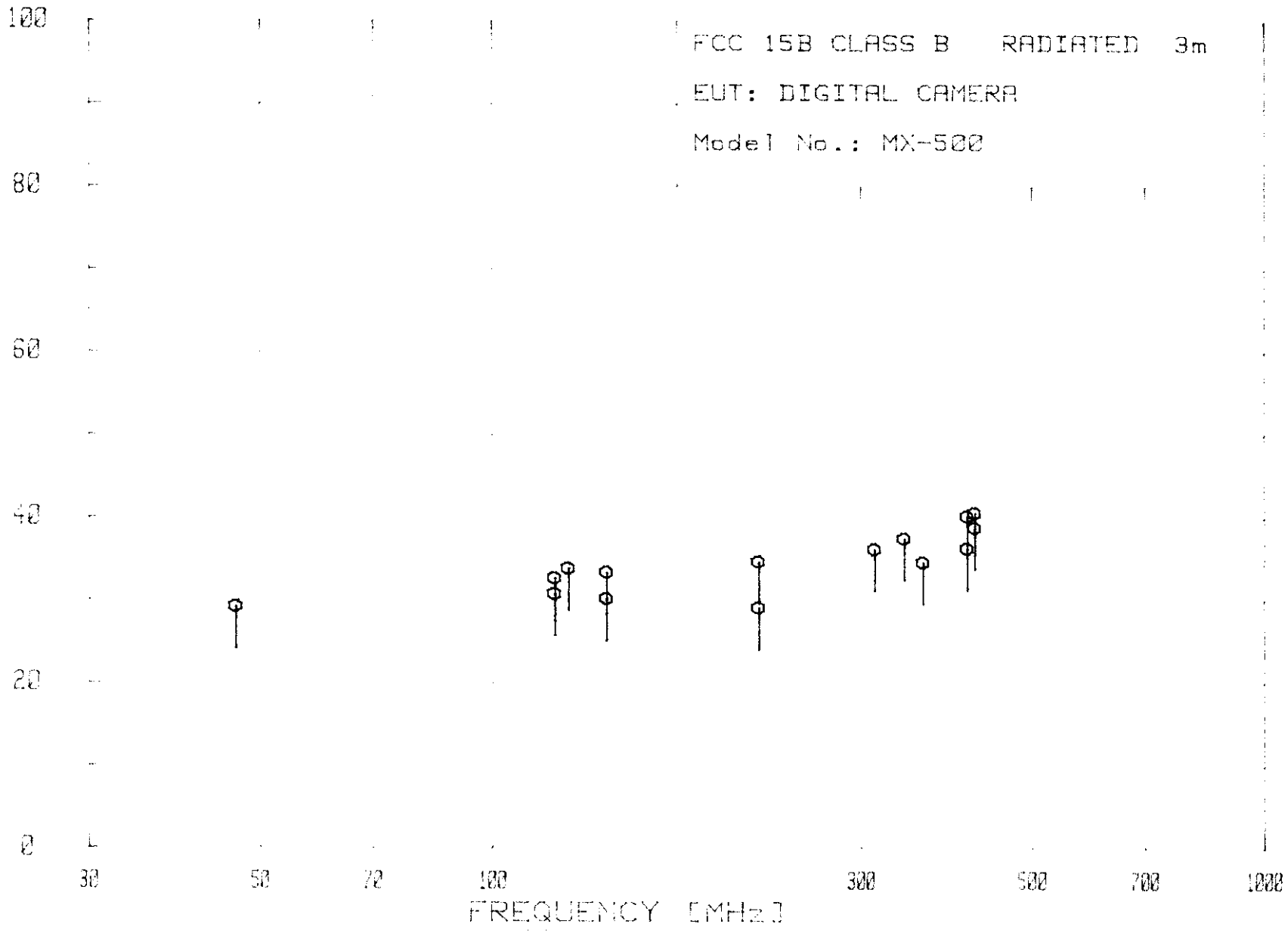
Kunihiko Ooi

Kunihiko Ooi
Engineer of TDK EMC CENTER
CHIKUMAGAWA OPEN SITE

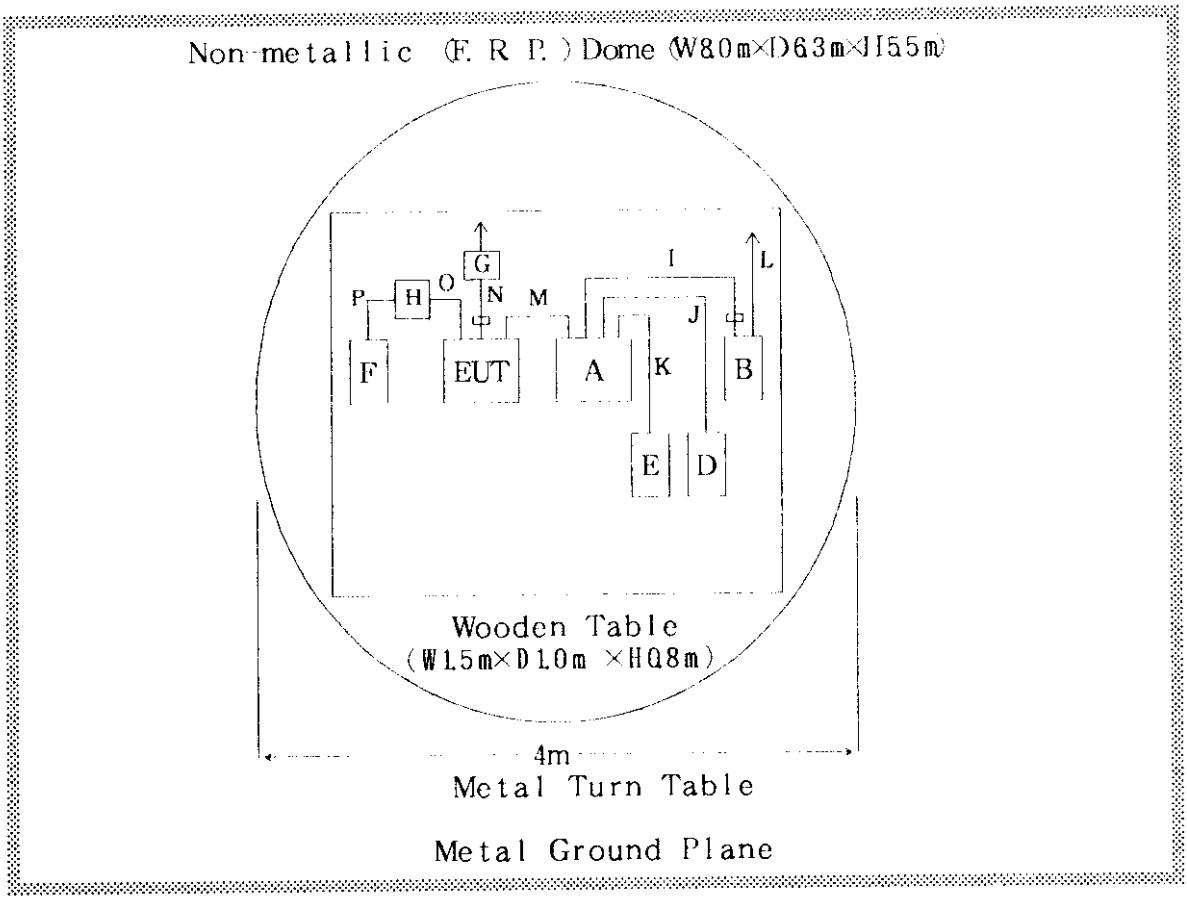
TDK EMC CENTER

May 18,1998

EMISSION LEVEL [dBuV/m]

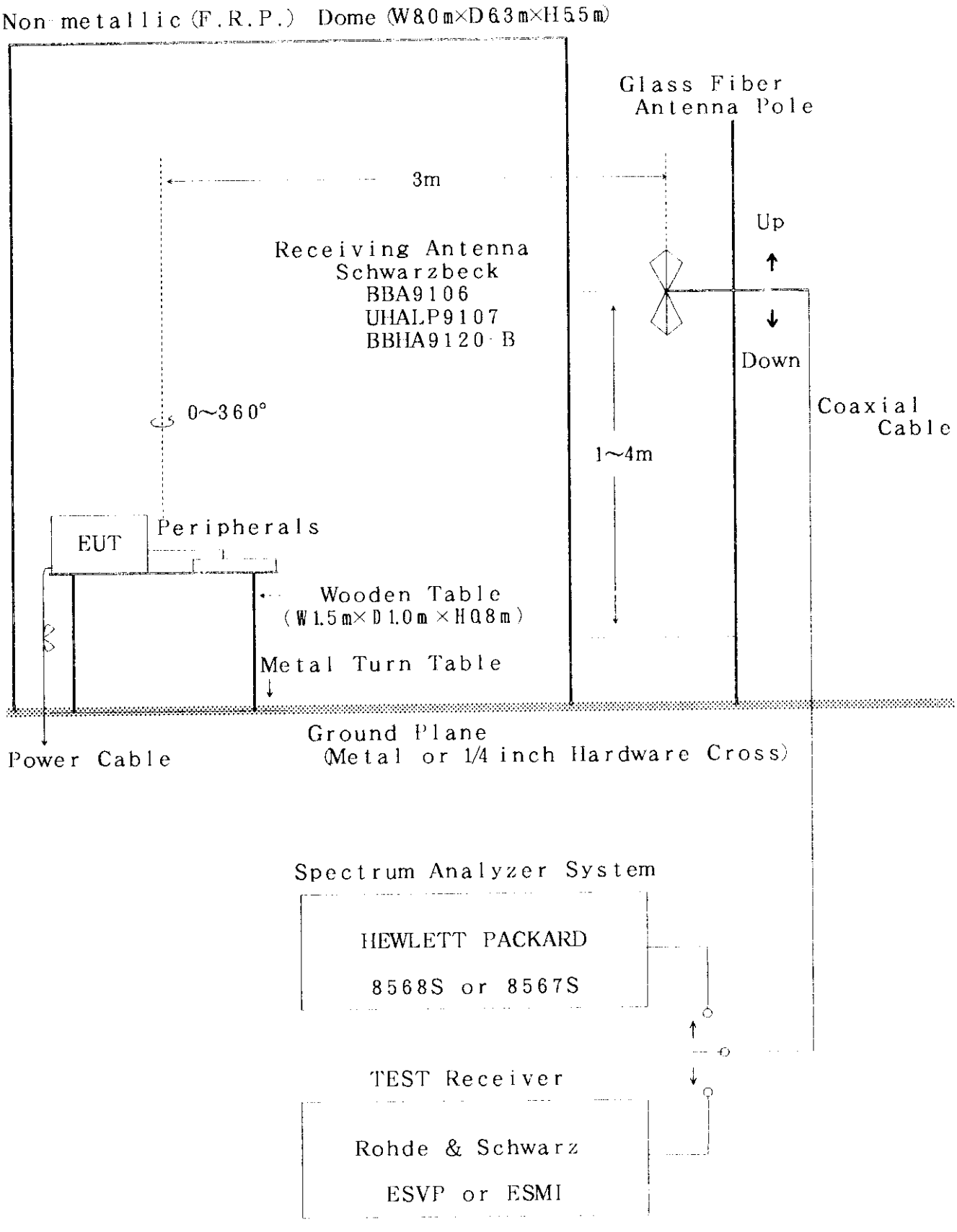


Cable		Cable Length	Special Attribute
I	SCANNER CABLE	1.5 m	Ferrite Core (1 piece)
J	SPEAKER CABLE	2.0 m	
K	MICROPHONE CABLE	1.6 m	
L	PRINTER AC CABLE	1.8 m	
M	RS232C CABLE	2.0 m	
N	AC ADAPTER CABLE	1.8 m	Ferrite Core (1 piece)
O	VIDEO CABLE	1.5 m	
P	CABLE ADAPTER CABLE	0.35m	



	Device	Model No.	FCC ID	Manufacturer
EUT	DIGITAL CAMERA	MX-500	F5GMX 500	FUJI PHOTO FILM CO., LTD
A	PERSONAL COMPUTER	XPi P133ST	E2KXPE2KXPT	DELL CORP.
B	VIDEO PRINTER	NC-2	F5GNC-2	FUJI PHOTO FILM CO., LTD
D	SPEAKER	SRS-PC21		SONY CO., LTD
E	MICROPHONE	AT9820X		AUDIO TECHNICA CO., LTD
F	VIDEO MONITOR	EV-510		CASIO COMPUTER CO., LTD
G	AC ADAPTER	AC-5V		FUJI PHOTO FILM CO., LTD
H	CABLE ADAPTER	PC-57S		SONY CO., LTD

Test Arrangement of Radiation



RADIO NOISE

Date: May 18, 1998

Temp. : 20℃: Humi. : 69%

Test Receiver: Rohde & Schwarz ESH-3
Operation mode: Detector function: CISPR Quasi-peak
6dB band width: 10kHz External Attenuator: none

Description of Device
EUT : DIGITAL CAMERA
Model No.: MX-500

Test Condition of EUT
1) Configuration : Refer to sheet No. 13, 14 and 15.
2) Ground : None
3) Operating Condition: CAMERA mode.

Frequency (MHz)	Correction Factor (dB)	Meter Reading (dBμV)		Emission Level (dBμV)	Limit (dBμV)	Margin (dBμV)
		VA	VB			
0.4960		42.2	42.0	42.2	47.9	5.7
0.5330		38.7	38.7	38.7	47.9	9.2
0.6600		41.1	39.9	41.1	47.9	6.8
0.8270		38.7	36.2	38.7	47.9	9.2
0.9910		40.9	39.4	40.9	47.9	7.0
1.1560		38.5	36.2	38.5	47.9	9.4
1.6530		34.1	34.5	34.5	47.9	13.4
5.6120		31.9	31.9	31.9	47.9	16.0

Notes: 1) Emission Levels are higher levels of VA or VB of Meter Readings.
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.

Kunihiko Ooi

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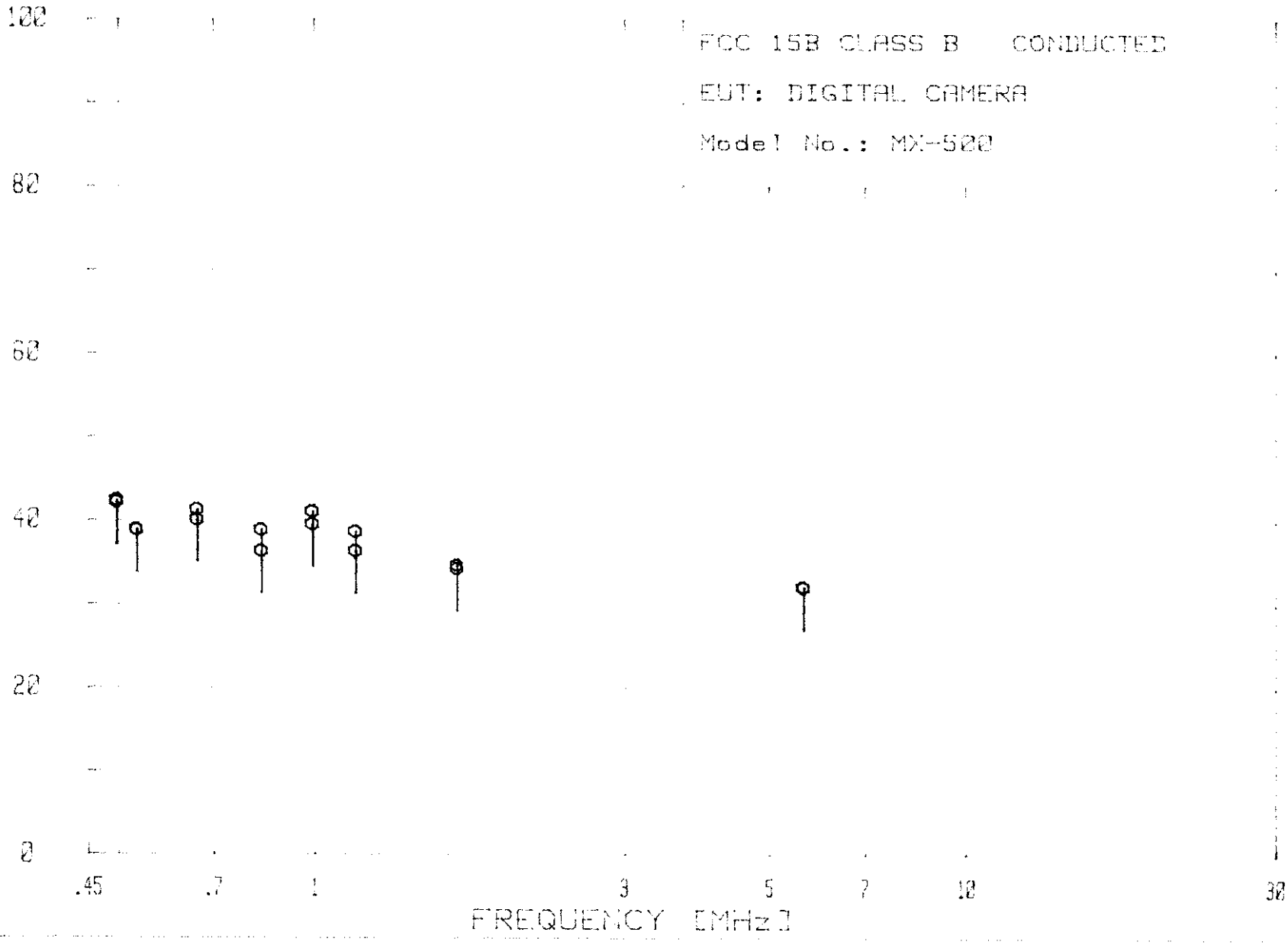
Engineer of TDK EMC CENTER
CHIKUMAGAWA OPEN SITE

TDK EMC CENTER

May 18,1998

EMISSION LEVEL [dBuV]



RADIO NOISE

Date: May 18,1998
Temp. : 20℃ Humi. : 69%

Test Receiver: Rohde & Schwarz ESH-3
Operation mode: Detector function: CISPR Quasi-peak
6dB band width:10kHz External Attenuator:none

Description of Device
EUT : DIGITAL CAMERA
Model No.: MX-500

Test Condition of EUT
1) Configuration : Refer to sheet No. 13,14 and 15.
2) Ground : None
3) Operating Condition: PLAYBACK mode.

Frequency (MHz)	Correction Factor (dB)	Meter Reading (dBμV)		Emission Level (dBμV)	Limit (dBμV)	Margin (dBμV)
		VA	VB			
0.4980		36.6	36.1	36.6	47.9	11.3
0.5900		42.1	41.8	42.1	47.9	5.8
0.7880		38.2	36.5	38.2	47.9	9.7
0.9850		34.3	36.2	36.2	47.9	11.7
1.1820		38.2	37.2	38.2	47.9	9.7
1.3790		31.2	28.2	31.2	47.9	16.7
3.5430		28.5	29.6	29.6	47.9	18.3
6.2850		31.6	31.2	31.6	47.9	16.3

Notes: 1) Emission Levels are higher levels of VA or VB of Meter Readings.
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.

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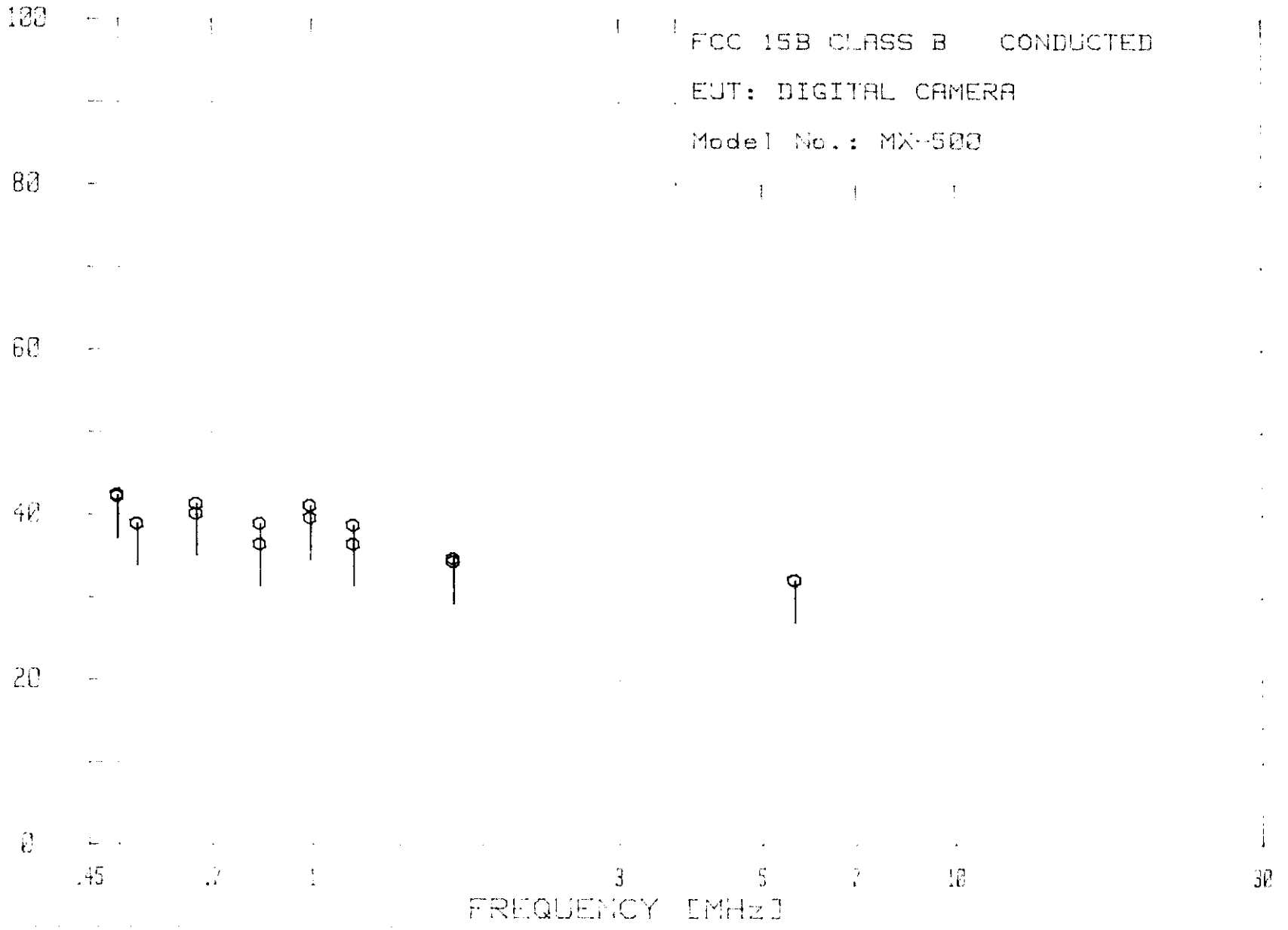
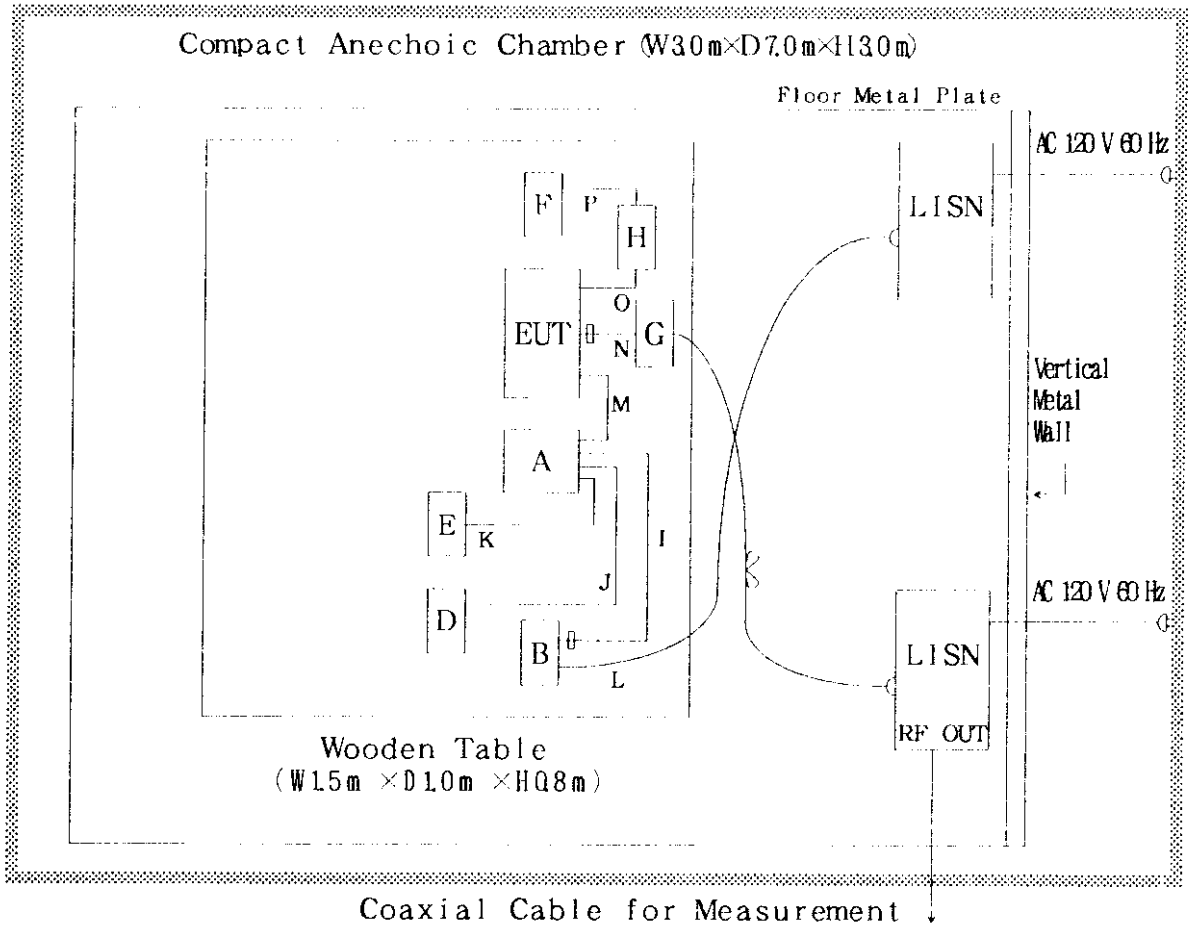
EMISSION LEVEL [dBuV]

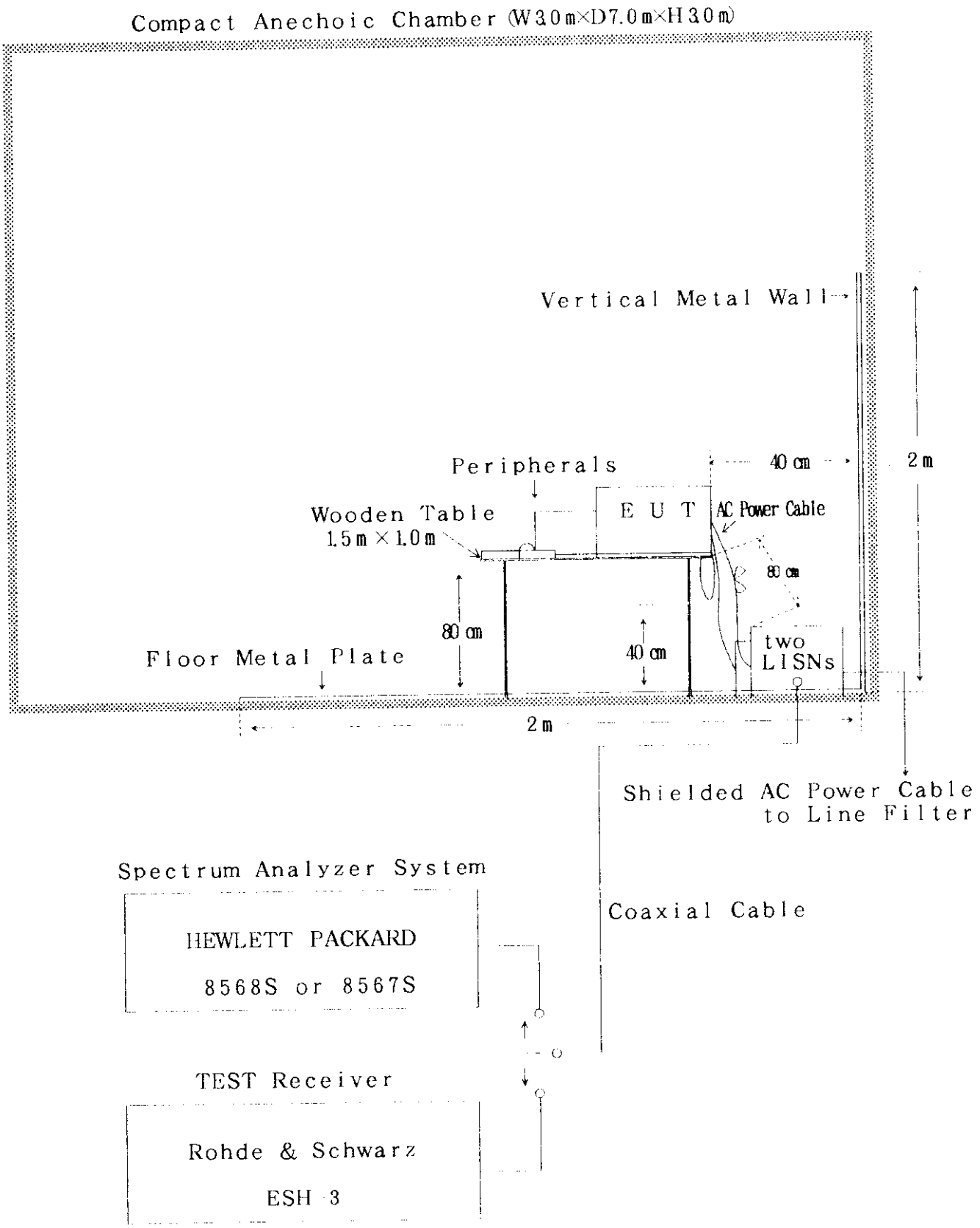




	Device	Model No.	FCC ID	Manufacturer
EUT	DIGITAL CAMERA	MX 500	F5GMX 500	FUJI PHOTO FILM CO., LTD
A	PERSONAL COMPUTER	XPi P133ST	E2KXPE2KXPT	DELL CORP.
B	VIDEO PRINTER	NC 2	F5GNC 2	FUJI PHOTO FILM CO., LTD
D	SPEAKER	SRS-PC21		SONY CO., LTD
E	MICROPHONE	AT9820X		AUDIO-TECHNICA CO., LTD
F	VIDEO MONITOR	EV-510		CASIO COMPUTER CO., LTD
G	AC ADAPTER	AC-5V		FUJI PHOTO FILM CO., LTD
H	CABLE ADAPTER	PC-57S		SONY CO., LTD

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 Conduction



MEASURING EQUIPMENTS USED:

Equipments	Manufacturer	Model No.	Serial
☑ Test Receiver	Rohde & Schwarz	ESVP	879529/
☑ Test Receiver	Rohde & Schwarz	ESH-3	872079/
☐ Test Receiver	Rohde & Schwarz	ESMI	6136000
☐ Artificial Mains Network (50μH+5Ω/50Ω)	Rohde & Schwarz	ESH2-Z5	881362/
☑ Artificial Mains Network (50Ω/50μH)	Kyoritsu Electrical	KNW-407	8-823-1
☑ Artificial Mains Network (50Ω/50μH)	Kyoritsu Electrical	KNW-407	8-680-7
☐ Artificial Mains Network (50Ω/50μH)	Kyoritsu Electrical	KNW 242	8-701-5
☐ Artificial Mains Network (50Ω/50μH)	Kyoritsu Electrical	KNW-408	8-652-3
☐ T Network	Rohde & Schwarz	ESH3 Z4	860666/
☐ Absorbing Clamp	Rohde & Schwarz	MDS21	301379/
☐ Loop Antenna	Rohde & Schwarz	HFH2-Z2	881056/
☐ 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	2727A0(
☑ Spectrum Analyzer System	Hewlett Packard	8568S	2445A0(