

TDK EMC CENTER CHIKUMAGAWA OPEN SITE

543 OTAI SAKU-CITY NAGANO JAPAN

REPORT OF MEASUREMENTS ON DIGITAL DEVICE

Date : April 22 ,2002

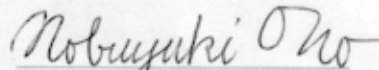
Issued in : Saku-city , JAPAN

TDK APPLICATION No.: TDC-02-0406

1. Applicant : FUJI PHOTO FILM CO. , LTD  
13-45 , SENZUI 3 - CHOME , ASAKA - SHI , SAITAMA  
351 - 8585 JAPAN
2. Factory : FUJI FILM PHOTONIX 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-S2PRO  
3-4. Trade Name : FUJIFILM  
3-5. Model No. : Fine Pix S2 Pro  
3-6. Serial No. : R00196S  
3-7. Date of Manufacture : March ,2002  
3-8. Power Supply : 120 V AC , 60Hz
4. Regulation Applied : FCC Part 15 Subpart B CLASS B 3m
5. Measurement Procedure Used : FCC Part 15 Subpart B CLASS B 3m
6. Place of Measurement : TDK EMC CENTER CHIKUMAGAWA OPEN SITE
7. Date of Measurement : April 16 ,2002
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.

  
Nobuyuki Ono

Chief of TDK CHIKUMAGAWA OPEN SITE

Phone : 047-378-9470

FAX : 047-378-9780

## MEASUREMENT RESULTS OF RADIATED RADIO NOISE at 3m

Date : April 16, 2002

Temp. : 21 °C ; Humi. : 28 %

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 S2 Pro

Test Condition of Equipment Under Test (EUT)

1) Configuration of EUT : Refer to sheet No.7, 8 and 9.

2) EUT Grounding : None.

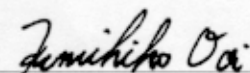
3) Operating Condition : CAMERA Mode .

| Frequency<br>(MHz) | Correction<br>Factor<br>(dB) | Meter Reading<br>(dB $\mu$ V/m) |      | Limit<br>(dB $\mu$ V/m) | Emission Level<br>(dB $\mu$ V/m) |      | Margin<br>(dB) |
|--------------------|------------------------------|---------------------------------|------|-------------------------|----------------------------------|------|----------------|
|                    |                              | Hor.                            | Ver. |                         | Hor.                             | Ver. |                |
| 68.200             | 8.0                          | 23.0                            | 25.6 | 40.0                    | 23.0                             | 25.6 | 14.4           |
| 107.150            | 13.2                         | 28.8                            | 25.8 | 43.5                    | 28.8                             | 25.8 | 14.7           |
| 111.190            | 13.8                         | 25.6                            | 25.8 | 43.5                    | 25.6                             | 25.8 | 17.7           |
| 133.430            | 16.2                         | 24.9                            | 25.0 | 43.5                    | 24.9                             | 25.0 | 18.5           |
| 186.010            | 18.8                         | 29.2                            | ---  | 43.5                    | 29.2                             | ---  | 14.3           |
| 196.360            | 19.2                         | ---                             | 27.7 | 43.5                    | ---                              | 27.7 | 15.8           |
| 270.000            | 21.4                         | 33.5                            | 34.2 | 46.0                    | 33.5                             | 34.2 | 11.8           |
| 294.540            | 22.6                         | 38.0                            | 34.1 | 46.0                    | 38.0                             | 34.1 | 8.0            |
| 319.090            | 20.0                         | 37.6                            | 32.3 | 46.0                    | 37.6                             | 32.3 | 8.4            |
| 343.630            | 20.5                         | 33.6                            | 29.2 | 46.0                    | 33.6                             | 29.2 | 12.4           |
| 374.860            | 21.0                         | ---                             | 30.7 | 46.0                    | ---                              | 30.7 | 15.3           |
| 395.690            | 21.3                         | 32.0                            | 34.2 | 46.0                    | 32.0                             | 34.2 | 11.8           |
| 687.270            | 27.4                         | ---                             | 34.7 | 46.0                    | ---                              | 34.7 | 11.3           |
|                    |                              |                                 |      |                         |                                  |      |                |
|                    |                              |                                 |      |                         |                                  |      |                |
|                    |                              |                                 |      |                         |                                  |      |                |
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|                    |                              |                                 |      |                         |                                  |      |                |
|                    |                              |                                 |      |                         |                                  |      |                |

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

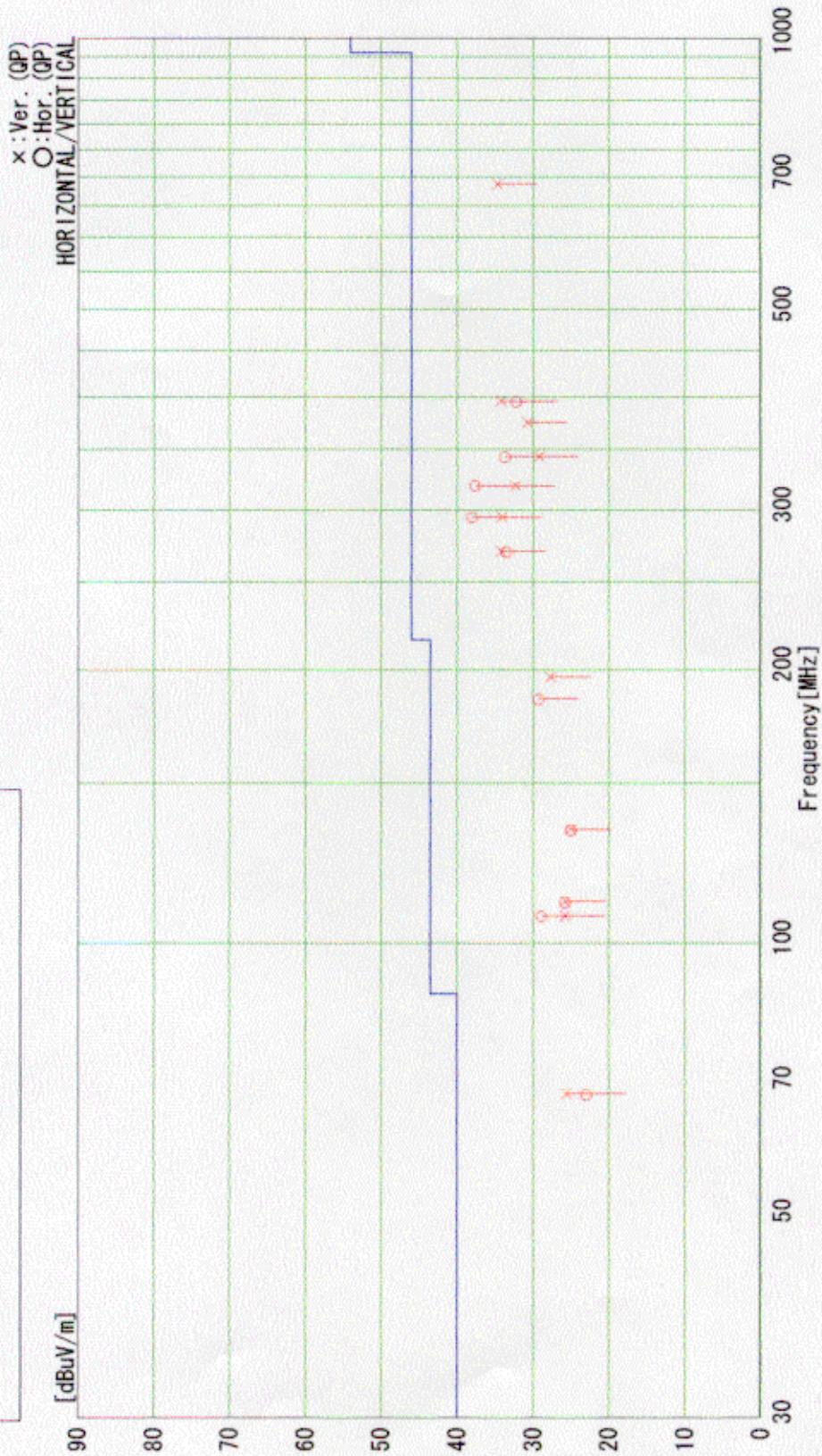
2) Margin = Limit — Emission Level.

Tested by :

  
 Kunihiro Ooi

Engineer of TDK Chikumagawa Open Site

FCC 15B CLASS B RADIATED 3m  
EUT : Fine Pix S2 Pro 120V/60Hz  
MODE : CAMERA Mode  
Frequency : 30 ~ 1000 MHz



## MEASUREMENT RESULTS OF RADIATED RADIO NOISE at 3m

Date : April 16, 2002

Temp. : 21 °C ; Humi. : 28 %

|                  |                                      |                            |  |
|------------------|--------------------------------------|----------------------------|--|
| 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 S2 Pro

Test Condition of Equipment Under Test (EUT)

1) Configuration of EUT : Refer to sheet No.7, 8 and 9.

2) EUT Grounding : None.

3) Operating Condition : IEEE1394 Mode .

| Frequency<br>(MHz) | Correction<br>Factor<br>(dB) | Meter Reading<br>(dB $\mu$ V/m) |      | Limit<br>(dB $\mu$ V/m) | Emission Level<br>(dB $\mu$ V/m) |      | Margin<br>(dB) |
|--------------------|------------------------------|---------------------------------|------|-------------------------|----------------------------------|------|----------------|
|                    |                              | Hor.                            | Ver. |                         | Hor.                             | Ver. |                |
| 30.100             | 19.8                         | ---                             | 32.1 | 40.0                    | ---                              | 32.1 | 7.9            |
| 68.200             | 8.0                          | 23.0                            | 31.8 | 40.0                    | 23.0                             | 31.8 | 8.2            |
| 107.150            | 13.2                         | 28.8                            | 28.0 | 43.5                    | 28.8                             | 28.0 | 14.7           |
| 111.190            | 13.8                         | 25.6                            | 28.5 | 43.5                    | 25.6                             | 28.5 | 15.0           |
| 135.470            | 16.2                         | 25.6                            | 24.2 | 43.5                    | 25.6                             | 24.2 | 17.9           |
| 186.010            | 18.8                         | 22.7                            | ---  | 43.5                    | 22.7                             | ---  | 20.8           |
| 194.990            | 19.2                         | 30.5                            | 32.6 | 43.5                    | 30.5                             | 32.6 | 10.9           |
| 294.540            | 22.6                         | 29.9                            | 24.8 | 46.0                    | 29.9                             | 24.8 | 16.1           |
| 324.980            | 20.1                         | 28.7                            | 33.6 | 46.0                    | 28.7                             | 33.6 | 12.4           |
| 332.810            | 20.3                         | ---                             | 28.3 | 46.0                    | ---                              | 28.3 | 17.7           |
| 798.740            | 28.7                         | ---                             | 33.4 | 46.0                    | ---                              | 33.4 | 12.6           |
|                    |                              |                                 |      |                         |                                  |      |                |
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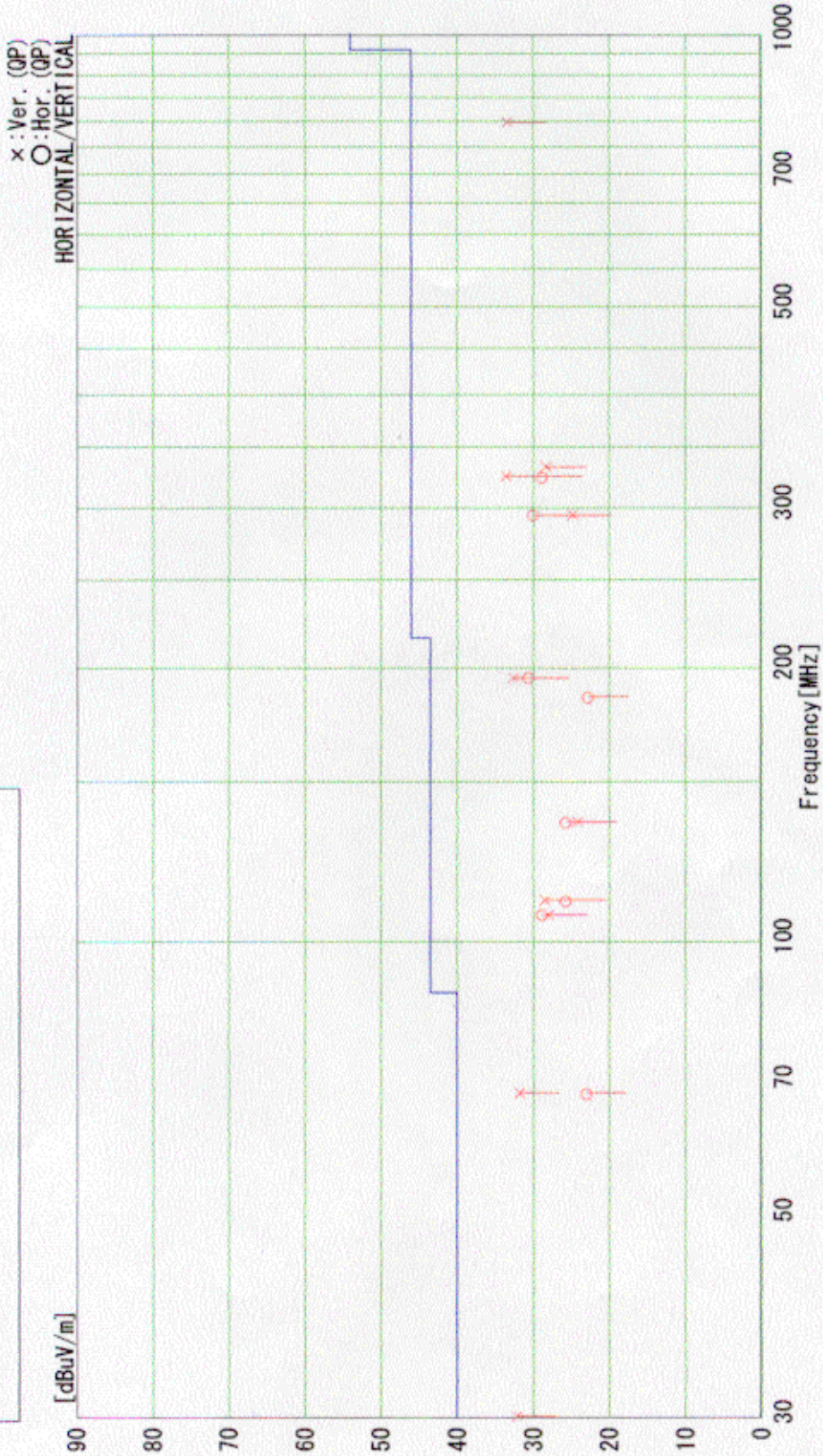
Note : 1) Meter Readings include Correction Factor (Antenna factor , Cable loss).

2) Margin = Limit - Emission Level.

Tested by : Kunihiko Ooi  
Kunihiko Ooi

Engineer of TDK Chikumagawa Open Site

FCC 15B CLASS B RADIATED 3m  
EUT : Fine Pix S2 Pro 120V/60Hz  
MODE : IEEE1394 Mode  
Frequency : 30 ~ 1000 MHz



# MEASUREMENT RESULTS OF RADIATED RADIO NOISE at 3m

Date : April 16, 2002

Temp. : 21 °C ; Humi. : 28 %

Test Receiver : Rohde &amp; 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 S2 Pro

Test Condition of Equipment Under Test (EUT)

1) Configuration of EUT : Refer to sheet No.7, 8 and 9.

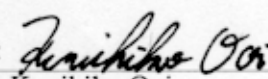
2) EUT Grounding : None.

3) Operating Condition : USB Mode .

| Frequency<br>(MHz) | Correction<br>Factor<br>(dB) | Meter Reading<br>(dB $\mu$ V/m) |      | Limit<br>(dB $\mu$ V/m) | Emission Level<br>(dB $\mu$ V/m) |      | Margin<br>(dB) |
|--------------------|------------------------------|---------------------------------|------|-------------------------|----------------------------------|------|----------------|
|                    |                              | Hor.                            | Ver. |                         | Hor.                             | Ver. |                |
| 30.100             | 19.8                         | ---                             | 34.3 | 40.0                    | ---                              | 34.3 | 5.7            |
| 68.590             | 7.9                          | 23.0                            | 34.4 | 40.0                    | 23.0                             | 34.4 | 5.6            |
| 107.320            | 13.2                         | 28.8                            | 30.5 | 43.5                    | 28.8                             | 30.5 | 13.0           |
| 111.370            | 13.8                         | 25.6                            | 29.6 | 43.5                    | 25.6                             | 29.6 | 13.9           |
| 135.660            | 16.2                         | 26.6                            | 24.2 | 43.5                    | 26.6                             | 24.2 | 16.9           |
| 178.930            | 18.4                         | 25.4                            | 24.5 | 43.5                    | 25.4                             | 24.5 | 18.1           |
| 294.540            | 22.6                         | 29.9                            | 24.8 | 46.0                    | 29.9                             | 24.8 | 16.1           |
| 324.980            | 20.1                         | 28.7                            | 32.8 | 46.0                    | 28.7                             | 32.8 | 13.2           |
| 332.810            | 20.3                         | ---                             | 27.4 | 46.0                    | ---                              | 27.4 | 18.6           |
| 736.360            | 28.0                         | ---                             | 36.0 | 46.0                    | ---                              | 36.0 | 10.0           |
| 798.740            | 28.7                         | ---                             | 33.4 | 46.0                    | ---                              | 33.4 | 12.6           |
|                    |                              |                                 |      |                         |                                  |      |                |
|                    |                              |                                 |      |                         |                                  |      |                |
|                    |                              |                                 |      |                         |                                  |      |                |
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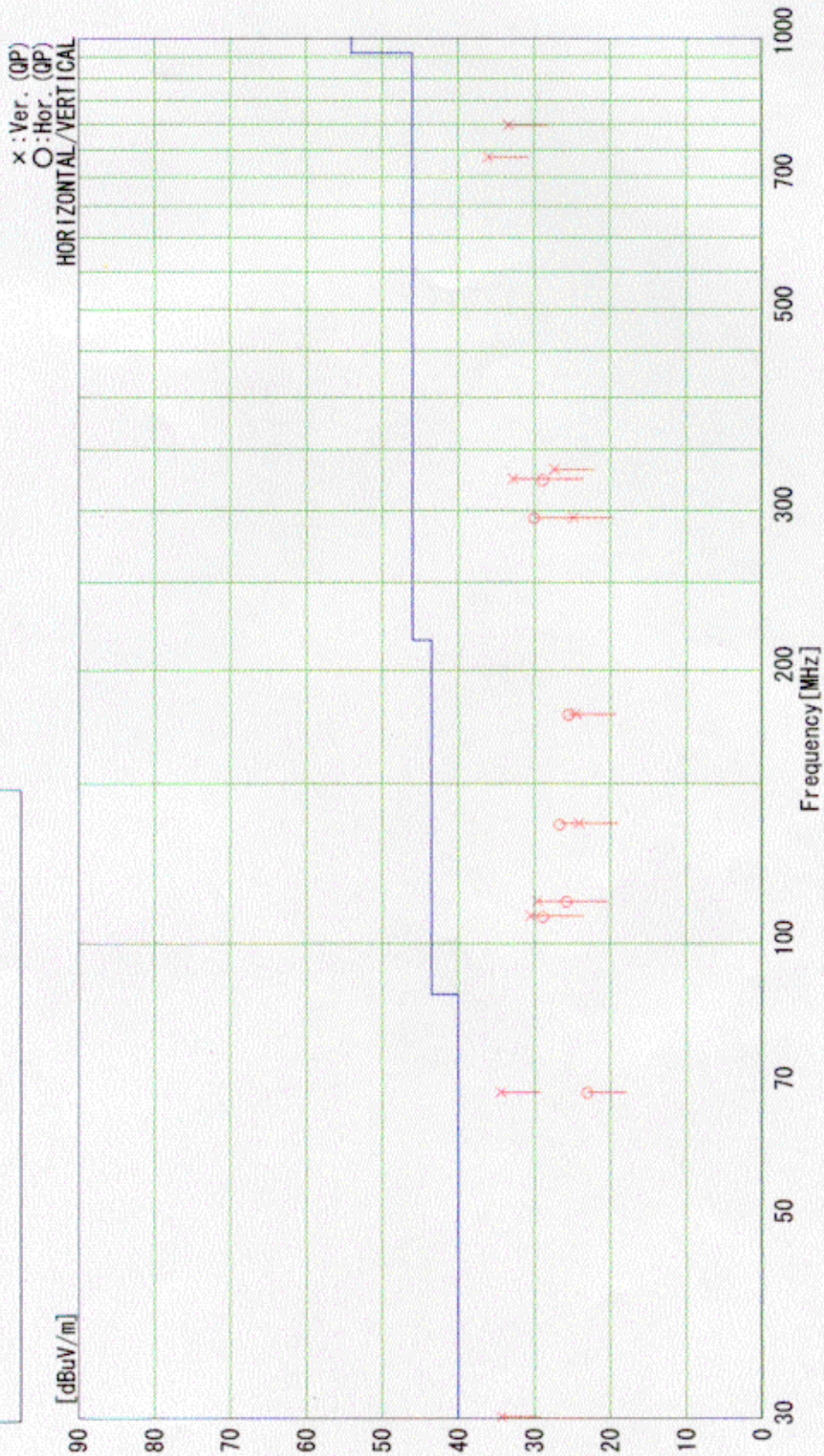
Note : 1) Meter Readings include Correction Factor (Antenna factor , Cable loss).

2) Margin = Limit - Emission Level.

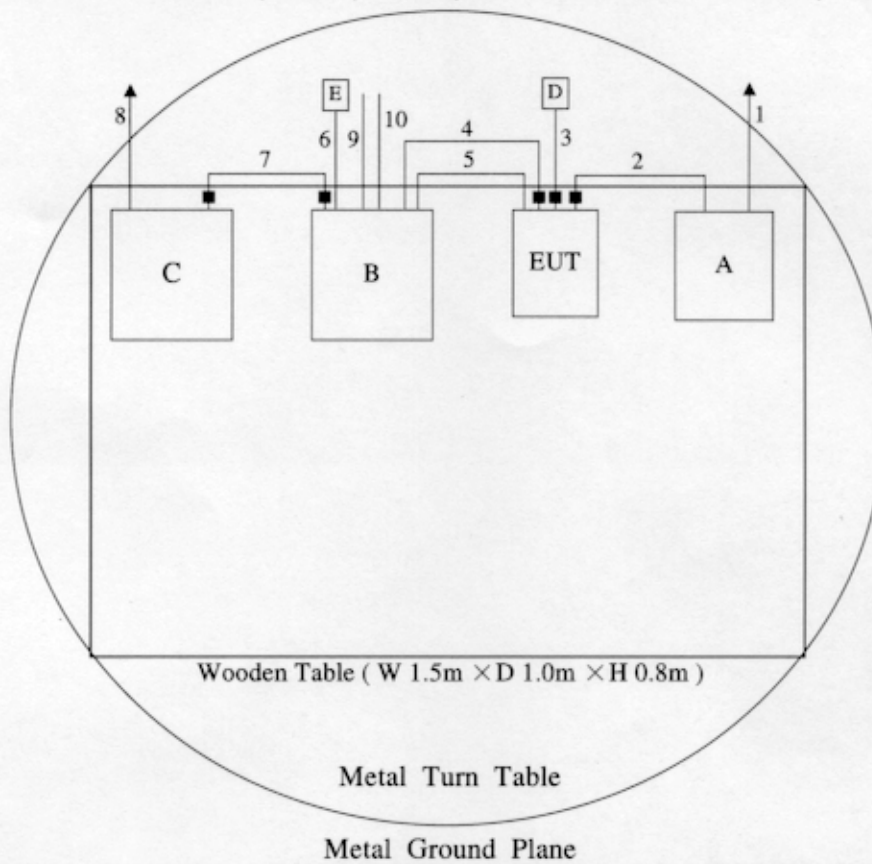
Tested by :   
Kunihiro Ooi

Engineer of TDK Chikumagawa Open Site

FCC 15B CLASS B RADIATED 3m  
 EUT : Fine Pix S2 Pro 120V/60Hz  
 MODE : USB Mode  
 Frequency : 30 ~ 1000 MHz



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



| No. | Device            | MODEL No.       | FCC ID      | S/N          | Manufacturer               |
|-----|-------------------|-----------------|-------------|--------------|----------------------------|
| EUT | DIGITAL CAMERA    | Fine Pix S2 Pro | F5GFP-S2PRO | R00196S      | FUJI PHOTO FILM CO. , LTD. |
| A   | VIDEO MONITOR     | PVM-8040        | DOC         | 2029411      | SONY                       |
| B   | PERSONAL COMPUTER | M8597J/C        | DOC         | UV2033MPMDU  | APPLE COMPUTER CO. ,LTD.   |
| C   | PC MONITOR        | M2978           | DOC         | CY52401HF3CV | LG ELECTRONICS             |
| D   | AC ADAPTER (EUT)  | AC-5VH          | -----       | 1036         | FUJI PHOTO FILM CO. , LTD. |
| E   | AC ADAPTER (PC)   | M8482           | DOC         | -----        | APPLE COMPUTER CO. ,LTD.   |
|     |                   |                 |             |              |                            |

TDK Application No : TDC-02-0406

## Connection Cables

| No. | I/F & Power Cable       | Model No. | Cable Length | Feraite Core | Manufacturer |
|-----|-------------------------|-----------|--------------|--------------|--------------|
| 1   | AC CABLE(VIDEO MONITOR) | -----     | 1.50 m       |              |              |
| 2   | AV CABLE                | -----     | 1.40 m       | YES          | SHIELD YES   |
| 3   | AC ADAPTER CABLE(EUT)   | -----     | 1.90 m       | YES          | SHIELD YES   |
| 4   | USB CABLE               | -----     | 1.50 m       | YES          | SHIELD YES   |
| 5   | IEEE1394 CABLE          | -----     | 2.00 m       |              | SHIELD YES   |
| 6   | AC ADAPTER CABLE(PC)    | -----     | 1.80 m       |              | SHIELD YES   |
| 7   | PC MONITOR CABLE        | -----     | 1.65 m       | YES          | SHIELD YES   |
| 8   | AC CABLE(PC MONITOR)    | -----     | 1.70 m       |              | SHIELD YES   |
| 9   | MODEM CABLE             | -----     | 1.80 m       |              |              |
| 10  | LAN CABLE               | -----     | 2.00 m       |              |              |
|     |                         |           |              |              |              |
|     |                         |           |              |              |              |

## RADIATION MEASUREMENT

EUT : DIGITAL CAMERA

MODEL No. Fine Pix S2 Pro

## CONFIGURATION FRONT VIEW



## CONFIGURATION REAR VIEW



# EUT's Test Arrangement of Radiation

Fig 1

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

