

2. Test System Details

2.1. Description of EUT

Applicant : Matsushita Electric Industrial Co., Ltd.
 Manufacturer : Matsushita Electric (Taiwan) Co., Ltd.
 579 Yuan San Road, Chung-Ho, Taipei Hsien, Taiwan, R. O. C.
 Model Name : 15" Multi-scan Color Monitor
 Model Number : TX-T5N72; DC5N72; TX-T5F72; DC5F72
 Serial Number : TA8440023 (TX-T5N72)
 : TA8440005 (TX-T5F72)
 FCC ID : ACJ92512125
 CRT : ①. Samsung (TX-T5N72 / DC5N72) ②. Panasonic (TX-T5F72 / DC5F72)
 Model: M36QAM351X111 Model: M36KPC030X01
 CRT PCB : ①. PCB No. : TNP4CH0021 ②. PCB No. : TNP4CH0013
 : (TX-T5N72 / DC5N72) (TX-T5F72 / DC5F72)
 Data Cable : Shielded, Undetachable, 1.5m, Employed data cable is provided with
 bonded one ferrite core.
 Power Cord : Non-shielded, Detachable, 1.5m

2.2. Personal Computer

Model Name : PC763
 Serial Number : TA421U7881
 FCC ID : AO9-PC76X
 Manufacturer : Digital
 VGA Card : Sixgraph Computing Ltd.
 M/N Wizard 924, FCC ID: JYOWIZ01

2.3. Keyboard

Model Number : BTC-5139

Serial Number : 73B304245

FCC ID : E5XKBM111

Manufacturer : Behavior Tech Computer Corp.

2.4. Printer

Model Number : 2225C+

Serial Number : 3121S96627

FCC ID : DSI6XU2225

Manufacturer : Hewlett Packard

2.5. Modem #1

Model Number : 1414

Serial Number : 950098204

FCC ID : IFAXDM1414

Manufacturer : Aceex

2.6. Modem #2

Model Number : 1414

Serial Number : 970024521

FCC ID : IFAXDM1414

Manufacturer : Aceex

2.7. Mouse

Model Number : M-S34

Serial Number : LZA65200980

FCC ID : DZL210472

Manufacturer : Logitech

APPLICATION FOR CERTIFICATION
On Behalf of
Matsushita Electric Industrial Co., Ltd.
15" Multi-Scan Color Monitor

Model : (1)TX-T5F72 (2)DC5F72
(3)TX-T5N72 (4)DC5N72

FCC ID : ACJ92512125

Prepared for : Matsushita Electric Industrial Co., Ltd.
One Panasonic Way, Panazip 4B-8
Secaucus, NJ 07094, U.S.A.

Prepared By : Taiwan Tokin EMC Eng. Corp.
No. 53-11, Tin-Fu Tsun, Lin-Kou,
Taipei Hsien, Taiwan, R.O.C.

Tel: (02) 2609-9301, 2609-2133

File Number : ATM-G98480
Report Number : TTEMC-F98142
Date of Test : Aug. 18 / 28, 1998
Date of Report : Sep. 01, 1998

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TEST REPORT CERTIFICATION

Applicant : Matsushita Electric Industrial Co., Ltd.
 Manufacturer : Matsushita Electric (Taiwan) Co., Ltd.
 FCC ID : ACJ92512125
 EUT Description : 15" Multi-Scan Color Monitor
 (A) MODEL NO. : (1)TX-T5F72 (2)DC5F72
 (3)TX-T5N72 (4)DC5N72
 (B) SERIAL NO. : (1)TA8440005 (TX-T5F72)
 (2)TA8440023 (TX-T5N72)
 (C) POWER SUPPLY : AC 100 ~ 240V, 50Hz/60Hz

Measurement Procedure Used :

FCC RULES AND REGULATIONS PART 15 SUBPART B CLASS B OCTOBER 1996
AND FCC / ANSI C63.4-1992

The device described above was tested by TAIWAN TOKIN EMC ENG. CORP. to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15B Class B limits both radiated and conducted emissions.

The measurement results were contained in this test report and TAIWAN TOKIN EMC ENG. CORP. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report showed that the EUT to be technically compliance with the FCC official limits.

This report applied to above tested sample only. This report shall not be reproduced in part without written approval of Taiwan Tokin EMC Eng. corp.

Date of Test : Aug. 18 / 28, 1998

Prepared by :

(JULIE HSU)

Test Engineer :

(ALLEN WANG)

Approve & Authorized Signer :

(STEVEN CHANG)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	15" Multi-Scan Color Monitor
Model Number	:	(1)TX-T5F72 (2)DC5F72 (3)TX-T5N72 (4)DC5N72
		The difference between (1) & (3) are ①CRT ②Video Board (circuit are same, layout for pattern is different) (1)(3) are for Panasonic Brand (2)(4) are for OEM manufacturers
Serial Number	:	(1)TA8440005 (TX-T5F72) (2)TA8440023 (TX-T5N72)
Applicant	:	Matsushita Electric Industrial Co., Ltd. One Panasonic Way, Panazip 4B-8 Secaucus, NJ 07094, U.S.A.
Manufacturer	:	Matsushita Electric (Taiwan) Co., Ltd. 579 Yuan San Road, Chung-Ho, Taipei Hsien 23506, Taiwan, R.O.C.
Trade Name	:	(1)(3) Panasonic. (2)(4) No Brand
CRT #1	:	Panasonic, M/N M36KPC030X01 S/N 469585 (TX-T5F72)
#2	:	Samsung, M/N M36QAM351X111 S/N B1580700045 (TX-T5N72)
CRT PCB No. #1	:	TNP4CH0013 (TX-T5F72)
#2	:	TNP4CH0021 (TX-T5N72)
Data Cable	:	Shielded, Undetachable, 1.5m Bonded a ferrite core
Power Cord	:	Non-Shielded, Detachable, 1.8m
Date of Test	:	Aug. 18/ 28, 1998

1.2. Tested Supporting System Details

1.2.1. PERSONAL COMPUTER

Model Number	:	PC763
Serial Number	:	TA421U7881
FCC ID	:	A09-PC76X
Manufacturer	:	Digital
Switching Power Supply	:	Astec, M/N SA-201-3440
Floppy Driver 3.5"	:	Teac Corp. M/N FD-235HF
Disk Ctrl Card	:	Within Mother Board
Serial/Parallel Card	:	Within Mother Board
VGA Card	:	Sixgraph Computing Ltd. M/N Wiz 924, S/N 189477 FCC ID JYOWIZ01
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.2. KEYBOARD

Model Number	:	BTC-5139
Serial Number	:	73B304245
FCC ID	:	E5XKBM111
Manufacturer	:	Behavior Tech Computer Corp.
Data Cable	:	Shielded, Undetachable, 1.2m

1.2.3. PRINTER

Model Number	:	2225C+
Serial Number	:	3121S96627
FCC ID	:	DSI6XU2225
Manufacturer	:	Hewlett Packard
Power Adapter	:	Hewlett Packard, M/N 82241A
Power Cord	:	Non-Shielded, Undetachable, 2.0m
Data Cable	:	Shielded, Detachable, 1.2m

1.2.4. MODEM # 1

Model Number	:	1414
Serial Number	:	950098204
FCC ID	:	IFAXDM1414
Manufacturer	:	Accex
Data Cable	:	Shielded, Detachable, 1.2m
Power Adapter	:	Amigo, Model AM-91000A Non-Shielded, Undetachable, 1.8m

1.2.5. MODEM # 2

Model Number	:	1414
Serial Number	:	970024521
FCC ID	:	IFAXDM1414
Manufacturer	:	Accex
Data Cable	:	Shielded, Detachable, 1.2m
Power Adapter	:	Amigo, Model AM-91000A Non-Shielded, Undetachable, 1.8m

1.2.6. MOUSE

Model Number	:	M-S34
Serial Number	:	LZA65200980
FCC ID	:	DZL210472
Manufacturer	:	Logitech
Data Cable	:	Non-Shielded, Undetachable, 1.9m

1.3. Description of Test Facility

Site Description (No. 2 Open Site)	:	Jul. 15, 1996 Re-file on Federal Communication Commission FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046, U.S.A.
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Site Description (Anechoic Chamber)	:	Aug. 22, 1997 Re-file on Federal Communication Commission FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046, U.S.A.
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Name of Firm	:	Taiwan Tokin EMC Eng. Corp.
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Site Location	:	No. 53-11, Tin-Fu Tsun, Lin-Kou, Taipei Hsien, Taiwan, R.O.C.
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NVLAP lab. Code	:	200077-0
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2. POWERLINE CONDUCTED TEST

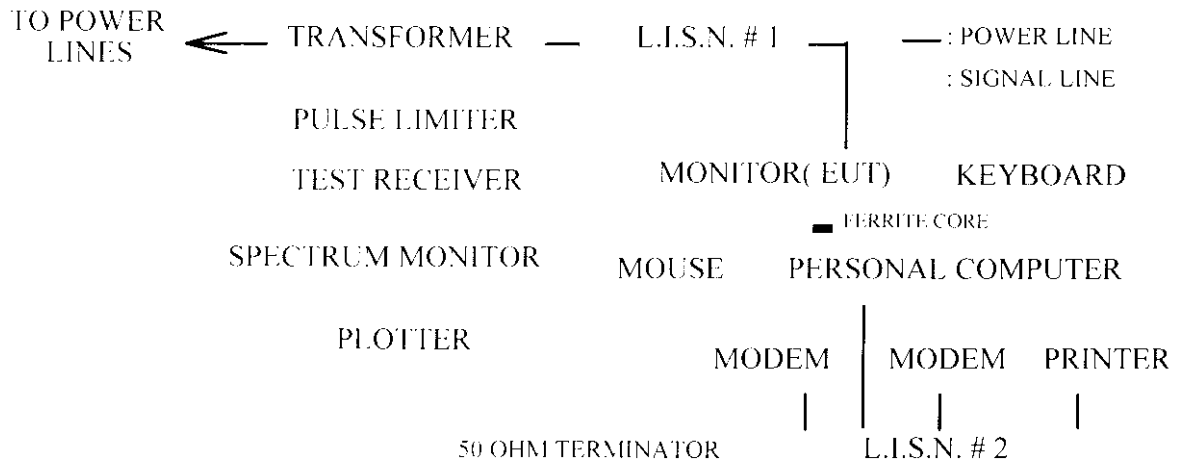
2.1. Test Equipment

The following test equipments were used during the power line conducted tests :

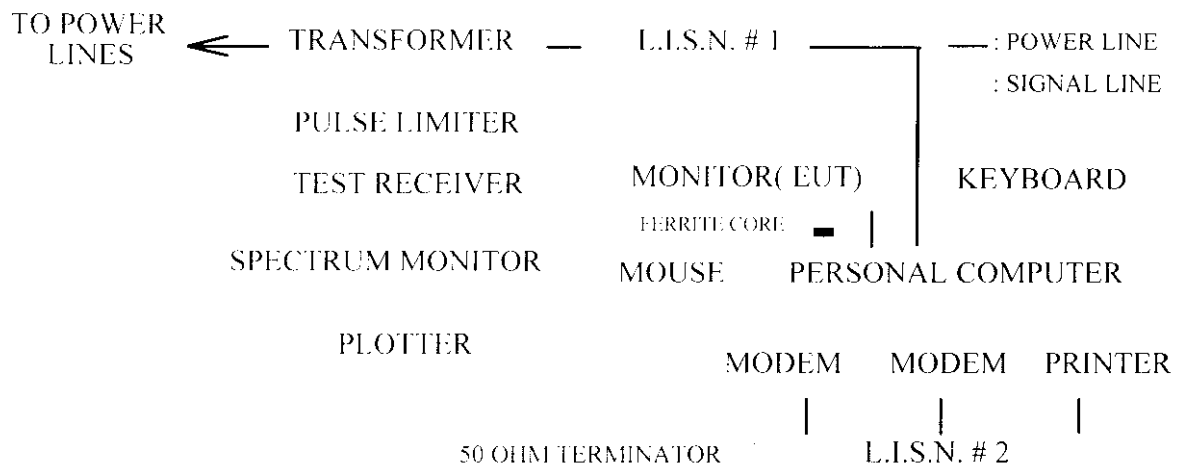
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS 10	844591/015	Nov.25, 97'	1 Year
2.	L.I.S.N. # 1	Kyoritsu	KNW-407	8-1370-9	Jun.03, 98'	1 Year
3.	L.I.S.N. # 2	Kyoritsu	KNW-407	8-1370-10	Jun.03, 98'	1 Year

2.2. Block Diagram of Test Setup

2.2.1. EUT Power Connects to L.I.S.N. Directly



2.2.2. EUT Power connects to PC AC Outlet then PC power connects to L.I.S.N.



2.3. Powerline Conducted Emission Limit (CLASS B)

Frequency	Maximum RF Line Voltage	
	uV	dBuV
0.45MHz ~ 30Mhz	250	48

REMARKS : RF LINE VOLTAGE (dBuV) = 20 log RF LINE VOLTAGE (uV)

2.4. EUT's Configuration during Compliance Measurement

The following equipments were installed on RF LINE VOLTAGE measurement to meet the Commission requirement and operating in a manner which tend to maximize its emission characteristics in a normal application.

2.4.1. 15" Multi-Scan Color Monitor (EUT)

Model Number	:	(1)TX-T5F72 (2)TX-T5N72
Serial Number	:	(1)TA8440005 (2)TA8440023
Manufacturer	:	Matsushita Electronic (Taiwan) Co., Ltd.
CRT #1	:	Panasonic, M/N M36KPC030X01 S/N 469585 (TX-T5F72)
#2	:	Samsung, M/N M36QAM351X111 S/N B1580700045 (TX-T5N72)
CRT PCB No. #1	:	TNP4CH0013 (TX-T5F72)
#2	:	TNP4CH0021 (TX-T5N72)
Data Cable	:	Shielded, Undetachable, 1.5m Bonded a ferrite core
Power Cord	:	Non-Shielded, Detachable, 1.8m

2.4.2. Support Equipments : As in 1.2 Test System Details

2.5. Operating Condition of EUT

2.5.1. Setup the EUT and simulator as shown on 2.2.

2.5.2. Turn on the power of all equipments.

2.5.3. Personal Computer read data from disk.

2.5.4. Personal Computer sent "H" character to monitor (EUT) and the screen displayed and full with "H" pattern.

2.5.5. The other peripheral devices were drove and operated in turn during all testing.

2.6. Test Procedure

The EUT was connected to the power mains through a line impedance stabilization network (L.I.S.N.# 1). The EUT is also connected to PC power outlet then the PC power cord connected to the power mains through a line impedance stabilization network (L.I.S.N # 1.). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N. # 2). This provided a 50 ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to FCC ANSI C63.4-1992 on conducted measurement.

The bandwidth of the R&S Test Receiver ESHS 10 was set at 10KHz.

The frequency range from 450KHz to 30MHz was checked.

2.7. Line Conducted RF Voltage Measurement Results

Two samples (TX-T5F72, TX-T5N72) with the following test modes were done during conducted measurement and reported the each worst test mode (8) (66KHz/1280*1024, EUT power connected to L.I.S.N.) in the next pages, the others test data are attached within Appendix I.

- (1) 31.5KHz/640*480
- (2) 37.9KHz/640*480
- (3) 37.9KHz/800*600
- (4) 48.1KHz/800*600
- (5) 48.4KHz/1024*768
- (6) 58KHz/1024*768
- (7) 61.6KHz/1280*960
- (8) 66KHz/1280*1024

(Test Date : Aug. 18, 1998 Temperature : 30 °C Humidity : 51%)

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FCC ID: ACH92512125 Page 17 of 33
 Test Site:
 #53-11 Tingfu Tsun, Linkou,
 Taipei, Taiwan R.O.C.
 Tel:02-26092133 Fax:02-26099303

Data#: 8 File#: MATSUSHI.EMI Date: 1998-08-18 Time: 14:19:59
 Conduction
 Limit: FCC CLASS-B Probe: LISN(FCC)8-1370-10 LINE
 EUT : MONITOR M/N:TX-T5N72
 Power: 120Vac/60Hz
 Memo : 1280*1024;66KHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark
	MHz	dB	dB	dB	dB	dB	dB	dB	
1	0.659	39.54	-8.46	48.00	39.39	0.10	0.05	0.00	QP
2	0.790	37.67	-10.33	48.00	37.52	0.10	0.05	0.00	QP
3	3.674	33.62	-14.38	48.00	33.47	0.10	0.05	0.00	QP
4	11.959	30.37	-17.63	48.00	30.13	0.17	0.07	0.00	QP
5	20.557	32.95	-15.05	48.00	32.47	0.28	0.20	0.00	QP
6	25.361	37.25	-10.75	48.00	36.60	0.45	0.20	0.00	QP



TAIWAN TOKIN EMC ENG. CORP.

FCC ID: AC092512125 Page 15 of 33
Test Site:
#53-11 Tingfu Tsun, Linkou,
Taipei, Taiwan R.O.C.
Tel:02-26092133 Fax:02-26099303

Data#: 7 File#: MATSUSHI.EMI Date: 1998-08-18 Time: 14:19:05
Conduction
Limit: FCC CLASS-B Probe: LISN(FCC)8-1370-10 NEUTRAL
EUT : MONITOR M/N:TX-T5N72
Power: 120Vac/60Hz
Memo : 1280*1024;66KHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark
	MHz	dB	dB	dB	dB	dB	dB	dB	
1	0.659	40.09	-7.91	48.00	39.94	0.10	0.05	0.00	QP
2	0.790	36.51	-11.49	48.00	36.36	0.10	0.05	0.00	QP
3	4.868	33.08	-14.92	48.00	32.93	0.10	0.05	0.00	QP
4	9.735	35.99	-12.01	48.00	35.80	0.14	0.05	0.00	QP
5	20.557	33.56	-14.44	48.00	33.08	0.28	0.20	0.00	QP
6	25.361	38.06	-9.94	48.00	37.41	0.45	0.20	0.00	QP

TOKIN

TAIWAN TOKIN EMC ENG. CORP.

FCC ID: ACJ92512125 Page 13 of 33
Test Site:
#53-11 Tingfu Tsun, Linkou,
Taipei, Taiwan R.O.C.
Tel:02-26092133 Fax:02-26099303

Data#: 40 File#: MATSUSHI.EMI

Date: 1998-08-18 Time: 15:20:12

Conduction

Limit: FCC CLASS-B Probe: LISN(FCC)8-1370-10 LINE

EUT : MONITOR M/N:TX-T5F72

Power: 120Vac/60Hz

Memo : 1280*1024;66KHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark
	MHz	dB	dB	dB	dB	dB	dB	dB	
1 !	0.594	43.01	-4.99	48.00	42.87	0.10	0.04	0.00	QP
2	0.723	37.33	-10.67	48.00	37.18	0.10	0.05	0.00	QP
3	2.435	32.69	-15.31	48.00	32.54	0.10	0.05	0.00	QP
4	6.898	32.54	-15.46	48.00	32.38	0.11	0.05	0.00	QP
5	10.109	36.15	-11.85	48.00	35.95	0.15	0.05	0.00	QP
6	20.906	36.43	-11.57	48.00	35.94	0.29	0.20	0.00	QP

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TAIWAN TOKIN EMC ENG. CORP.

FCC ID: A6J92512125 Page 11 of 33
 Test Site:
 #53-11 Tingfu Tsun, Linkou,
 Taipei, Taiwan R.O.C.
 Tel:02-26092133 Fax:02-26099303

Data#: 39 File#: MATSUSHI.EMI Date: 1998-08-18 Time: 15:18:58
 Conduction
 Limit: FCC CLASS-B Probe: LISN(FCC)8-1370-10 NEUTRAL
 EUT : MONITOR M/N:TX-T5F72
 Power: 120Vac/60Hz
 Memo : 1280*1024;66KHz

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor	Remark
	MHz	dB	dB	dB	dB	dB	dB	dB	
1	0.589	40.57	-7.43	48.00	40.43	0.10	0.04	0.00	QP
2	0.723	37.88	-10.12	48.00	37.73	0.10	0.05	0.00	QP
3	2.761	29.52	-18.48	48.00	29.37	0.10	0.05	0.00	QP
4	5.056	35.12	-12.88	48.00	34.97	0.10	0.05	0.00	QP
5	15.321	36.18	-11.82	48.00	35.87	0.20	0.11	0.00	QP
6	20.906	34.48	-13.52	48.00	33.99	0.29	0.20	0.00	QP

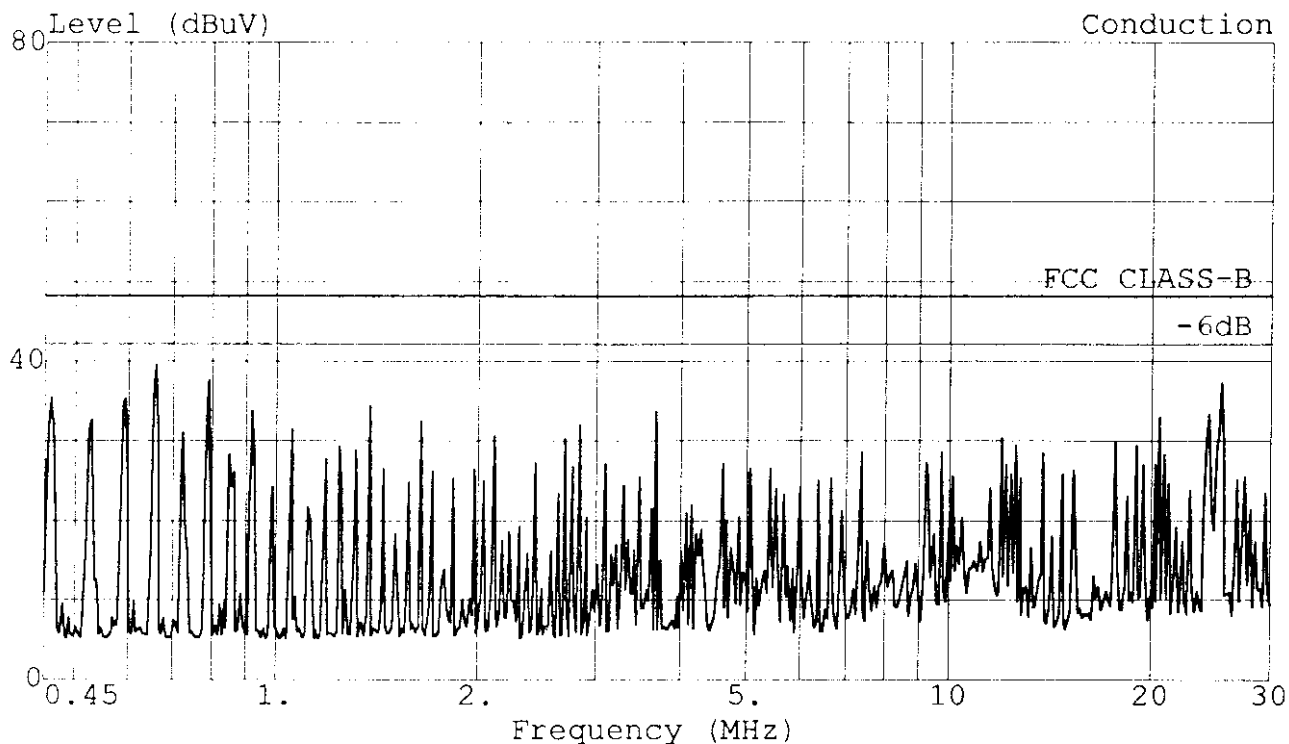
TOKIN

TAIWAN TOKIN EMC ENG. CORP.

FCC ID: A092512125 Page 16 of 33
Test Site:
#53-11 Tingfu Tsun, Linkou,
Taipei, Taiwan R.O.C.
Tel:02-26092133 Fax:02-26099303

Data#: 6 File#: MATSUSHI.EMI

Date: 1998-08-18 Time: 14:04:30



Trace:

Ref Trace:

Limit: FCC CLASS-B Probe: LISN(FCC)8-1370-10 LINE

EUT : MONITOR M/N:TX-T5N72

Power: 120Vac/60Hz

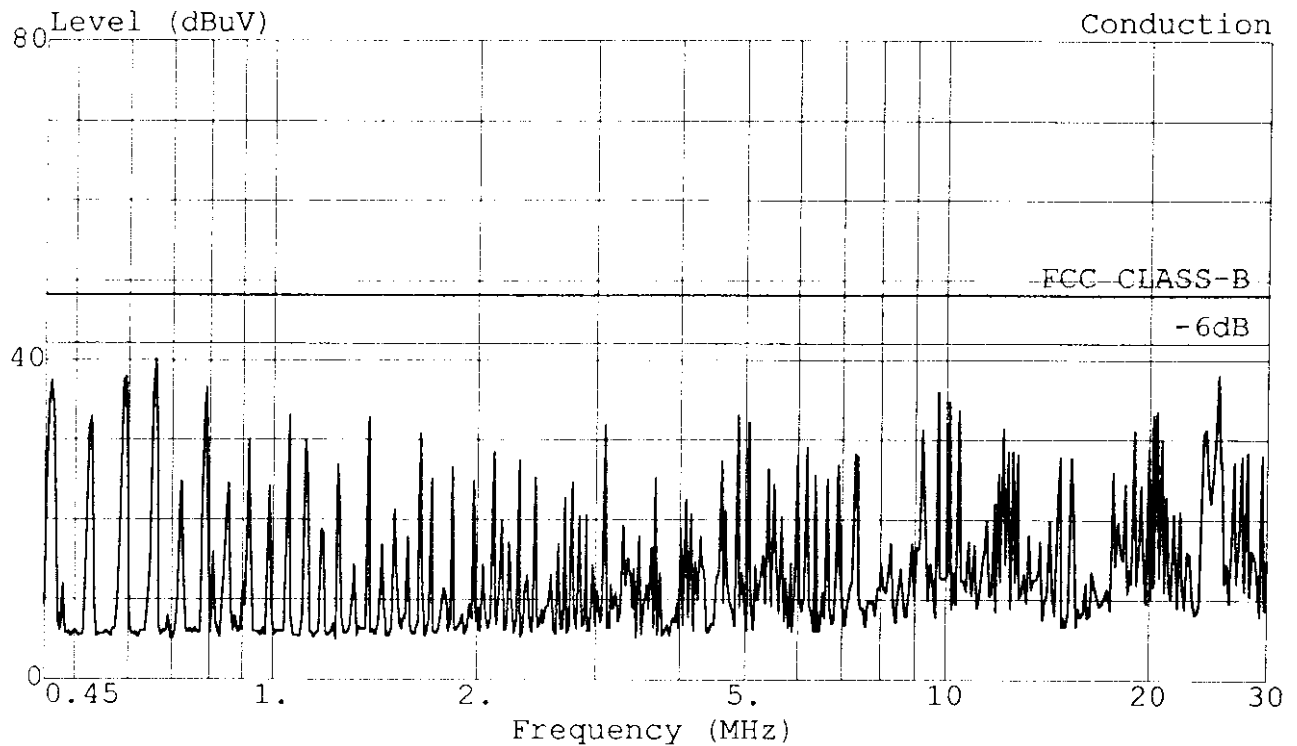
Memo : 1280*1024;66KHz

TOKIN

FCC ID: ACJ92512125 Page 14 of 33
Test Site:
#53-11 Tingfu Tsun, Linkou,
Taipei, Taiwan R.O.C.
Tel:02-26092133 Fax:02-26099303

TAIWAN TOKIN EMC ENG. CORP.

Data#: 5 File#: MATSUSHI.EMI Date: 1998-08-18 Time: 14:03:45



Trace: Ref Trace:
Limit: FCC CLASS-B Probe: LISN(FCC) 8-1370-10 NEUTRAL
EUT : MONITOR M/N:TX-T5N72
Power: 120Vac/60Hz
Memo : 1280*1024;66KHz

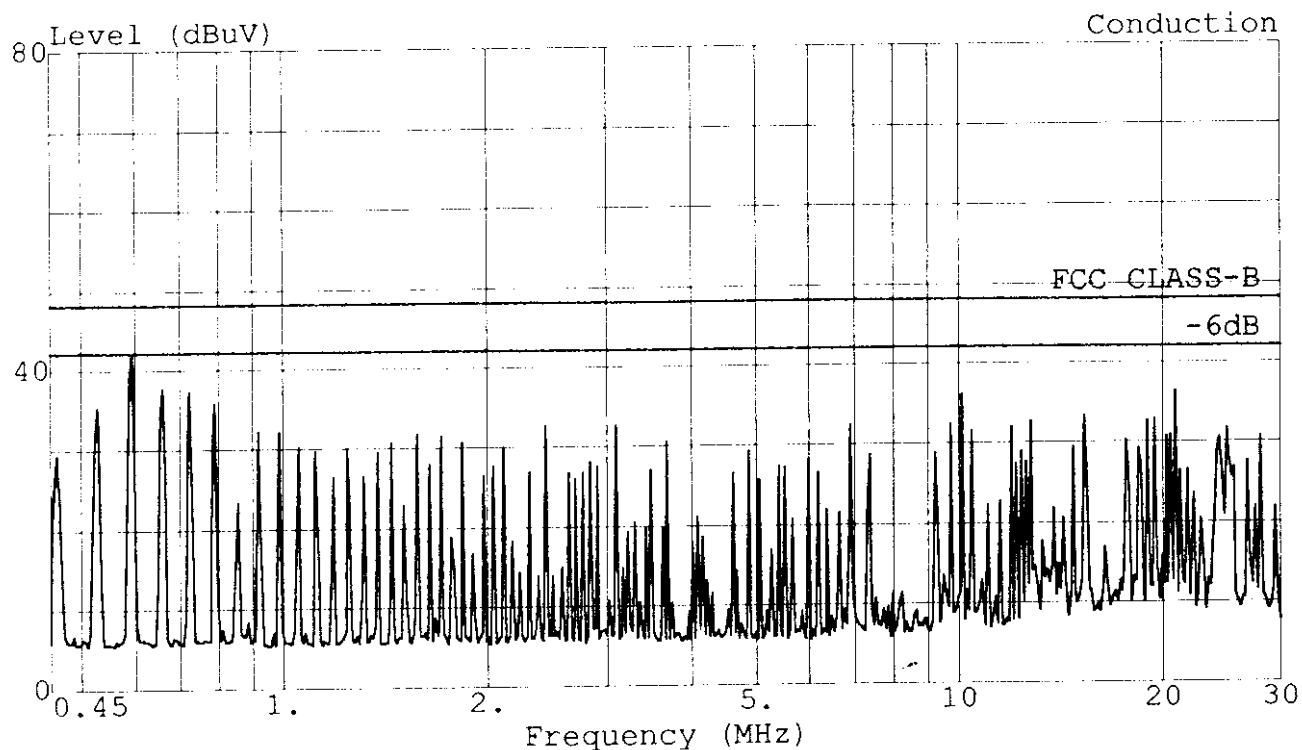
TOKIN

TAIWAN TOKIN EMC ENG. CORP.

FCC ID: ACJ92512125 Page 12 of 33
Test Site:
#53-11 Tingfu Tsun, Linkou,
Taipei, Taiwan R.O.C.
Tel:02-26092133 Fax:02-26099303

Data#: 38 File#: MATSUSHI.EMI

Date: 1998-08-18 Time: 15:17:13



Trace:
Limit: FCC CLASS-B Probe: LISN(FCC)8-1370-10 LINE
EUT : MONITOR M/N:TX-T5F72
Power: 120Vac/60Hz
Memo : 1280*1024;66KHz

Ref Trace:

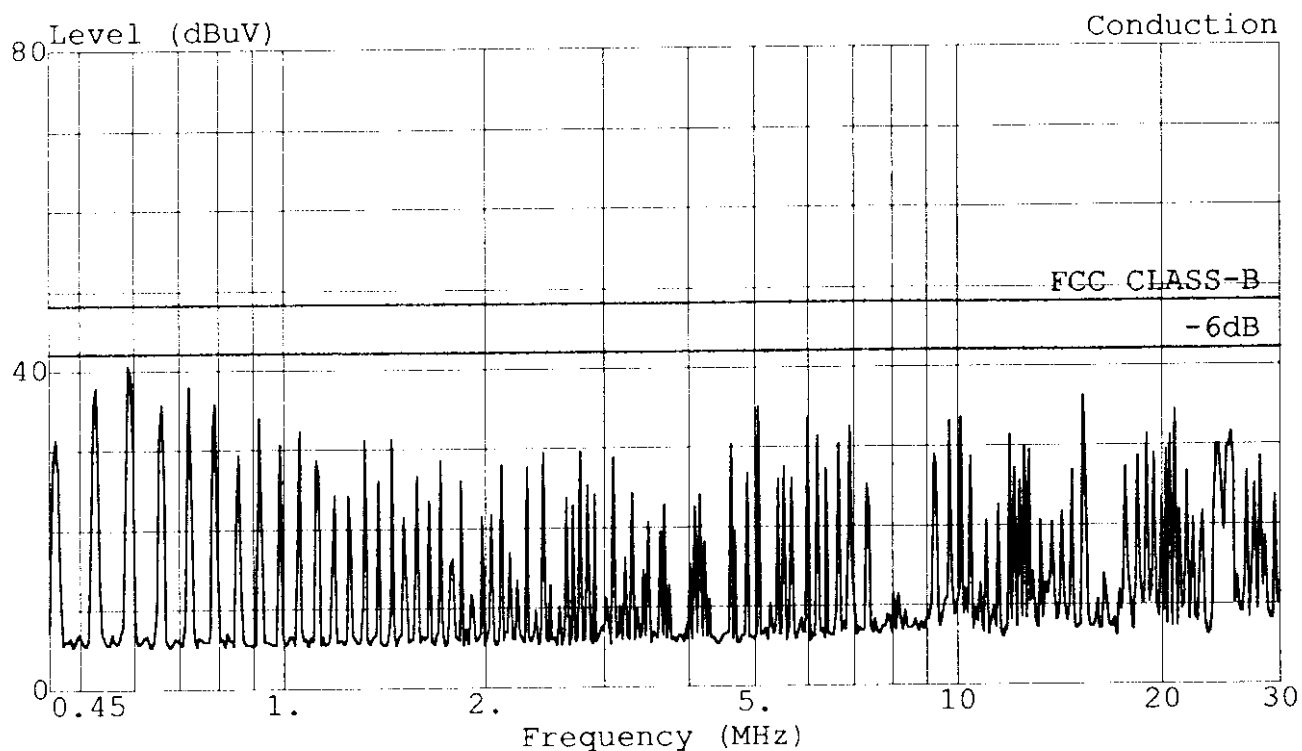
TOKIN

TAIWAN TOKIN EMC ENG. CORP.

FCC ID: ACJ92512125 Page 10 of 33
Test Site:
#53-11 Tingfu Tsun, Linkou,
Taipei, Taiwan R.O.C.
Tel:02-26092133 Fax:02-26099303

Data#: 37 File#: MATSUSHI.EMI

Date: 1998-08-18 Time: 15:16:26



Trace: Ref Trace:
Limit: FCC CLASS-B Probe: LISN(FCC)8-1370-10 NEUTRAL
EUT : MONITOR M/N:TX-T5F72
Power: 120Vac/60Hz
Memo : 1280*1024;66KHz

3. RADIATED EMISSION TEST

3.1. Test Equipment

The following test equipments are used during the radiated emission tests :

3.1.1. For Anechoic Chamber :

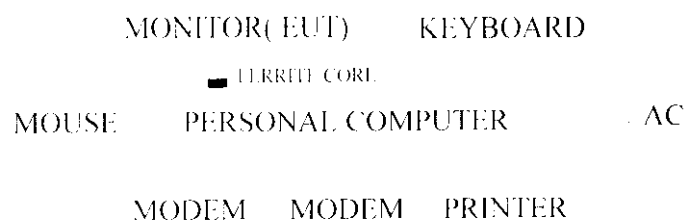
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	HP	8593A	3212A01727	Jul.25, 98*	1 Year
2.	Pre-Amplifier	HP	8447D	2944A06305	May 13, 98*	1 Year
3.	Computer	--	PC-AT486	N/A	N/A	NA
4.	Printer	NEC	P5200	603095067	N/A	N/A
5.	Antenna Turn Table Controller	Tokin	5906	N/A	N/A	N/A
6.	Antenna Turn Table Driver	Tokin	5907	88Y465	N/A	N/A
7.	Broadband Antenna	Schwarzbeck	BBA 9106	A3L	Dec.24, 97*	1 Year
8.	Broadband Antenna	Schwarzbeck	UHALP 9107	A3H	Dec.24, 97*	1 Year

3.1.2. For No. 2 Open Site :

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Anritsu	MS2601A	MT60755	N/A	N/A
2.	Test Receiver	Rohde & Schwarz	FSVP	893202/001	Jul.24, 98*	1 Year
3.	Computer	--	PC-AT386	N/A	N/A	NA
4.	Printer	NEC	P5300	604052891	N/A	N/A
5.	Pre-Amplifier	HP	8447D	2727A06166	N/A	N/A
6.	Broadband Antenna	CHASE	VBA6106A	1240	Jan.14, 98*	1 Year
7.	Broadband Antenna	Schwarzbeck	UHALP 9108-A	0139	Jan.14, 98*	1 Year

3.2. Block Diagram of Test Setup

3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Anechoic Chamber & Open Field Test Site Setup Diagram

ANTENNA TOWER

ANTENNA ELEVATION VARIES FROM 1METER TO 4 METERS

3 METERS

EUT

0.8
METER

TURN TABLE

GROUND PLANE

3.3. Radiation Limit (CLASS B)

FREQUENCY	DISTANCE	FIELD STRENGTHS LIMITS	
		uV/M	dBuV/M
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0

Remark : (1) Emission level (dBuV/M) = 20 log Emission level (uV/M)
 (2) The tighter limit applies at the edge between two frequency bands.
 (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3.4. EUT's Configuration during Compliance Measurement

The configuration of EUT and its simulators were same as those used in conducted measurement. Please refer to 2.4.

3.5. Operating Condition of EUT

Same as conducted measurement which is listed in 2.5.

3.6. Test Procedure

The EUT and its simulators were placed on a turn table which was 0.8 meter above ground. The turn table rotate 360 degrees to determine the position of the maximum emission level. EUT was set 3 meters away from the receiving antenna which were mounted on a antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated biconical and log periodical antenna) and dipole antenna were used as receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4-1992 on radiated measurement.

The bandwidth of the R&S Test Receiver ESVP was set at 120KHz.

The frequency range from 30MHz to 1000MHz was checked.

Two samples (TX-T5F72, TX-T5N72) with the following operating conditions were measured within Anechoic Chamber and all the scanning waveform were attached within Appendix II, which include :

- (1) 31.5KHz/640*480
- (2) 37.9KHz/640*480
- (3) 37.9KHz/800*600
- (4) 48.1KHz/800*600
- (5) 48.4KHz/1024*768
- (6) 58KHz/1024*768
- (7) 61.6KHz/1280*960
- (8) 66KHz/1280*1024

Finally, re-measured the each worst operating situation (66KHz/1280*1024) at No. 2 Open Field Test Site and all the test results are listed in section 3.7.

Date of Test : Aug. 21, 1998 Temperature : 31 °C

EUT : 15" Multi-Scan Color Monitor Humidity : 68 %

Test Mode : 66KHz/1280*1024 (M/N TX-T5F72)

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBuV	Emission Level Vertical dBuV/m	Limits dBuV/m	Margin dBuV/m
35.229	19.86	1.89	3.90	25.65	40.00	14.35
55.082	15.43	2.49	7.10	25.02	40.00	14.98
69.998	13.88	2.85	15.00	31.73	40.00	8.27
* 75.735	15.52	2.96	19.00	37.48	40.00	2.52
82.623	14.60	3.10	11.70	29.40	40.00	10.60
110.164	16.47	3.62	6.10	26.19	43.50	17.31
123.934	17.41	3.91	1.00	22.32	43.50	21.18
144.608	17.50	4.24	2.20	23.94	43.50	19.56
158.362	19.37	4.42	- 1.80	21.99	43.50	21.51
172.137	19.73	4.64	- 1.20	23.17	43.50	20.33
227.221	22.26	5.41	3.60	31.27	46.00	14.73
240.985	22.47	5.56	3.30	31.33	46.00	14.67
275.410	23.68	6.05	1.00	30.73	46.00	15.27
330.489	15.90	6.72	7.00	29.62	46.00	16.38
344.262	15.20	6.90	5.50	27.60	46.00	18.40
351.158	14.27	6.93	12.40	33.60	46.00	12.40
406.241	16.11	7.59	17.10	40.80	46.00	5.20
426.887	16.65	7.79	8.20	32.64	46.00	13.36
440.652	17.09	7.96	9.80	34.85	46.00	11.15
516.401	18.54	8.77	6.49	33.80	46.00	12.20
550.816	19.41	9.16	11.00	39.57	46.00	6.43

- Remark :
1. All reading were Quasi-Peak values.
 2. The worst emission was detected at 75.735MHz with corrected signal level of 37.48dBuV/m (limit was 40dBuV/m) when the antenna was at vertical polarization and was at 1m high and the turn table was at 175°.
 3. 0° is the table front facing the antenna. Degree was calculated from 0° clockwise facing the antenna.

Date of Test : Aug. 21, 1998 Temperature : 31 °C

EUT : 15" Multi-Scan Color Monitor Humidity : 68 %

Test Mode : 66KHz/1280*1024 (M/N TX-T5N72)

	Antenna	Cable	Meter Reading	Emission Level		
Frequency	Factor	Loss	Horizontal	Horizontal	Limits	Margin
MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dBuV/m
55.085	13.64	2.49	6.40	22.53	40.00	17.47
75.747	12.79	2.96	12.00	27.75	40.00	12.25
82.626	14.24	3.10	3.40	20.74	40.00	19.26
110.165	17.67	3.62	8.00	29.29	43.50	14.21
123.936	19.43	3.91	2.00	25.34	43.50	18.16
144.596	20.19	4.24	3.20	27.63	43.50	15.87
179.023	21.53	4.74	- 2.80	23.47	43.50	20.03
213.454	21.81	5.24	2.30	29.35	43.50	14.15
227.223	22.85	5.41	- 0.70	27.56	46.00	18.44
296.076	24.20	6.29	0.10	30.59	46.00	15.41
330.490	14.65	6.72	14.70	36.07	46.00	9.93
351.147	15.30	6.93	5.20	27.43	46.00	18.57
385.571	16.45	7.37	7.80	31.62	46.00	14.38
406.230	16.63	7.59	9.50	33.72	46.00	12.28
440.653	17.11	7.96	8.30	33.37	46.00	12.63
461.310	17.01	8.14	12.40	37.55	46.00	8.45
481.966	17.09	8.35	6.30	31.74	46.00	14.26
495.735	17.46	8.51	7.60	33.57	46.00	12.43
509.507	17.99	8.73	4.50	31.22	46.00	14.78
530.168	18.66	8.92	8.10	35.68	46.00	10.32
* 550.816	19.50	9.16	13.50	42.16	46.00	3.84

- Remark :
1. All reading were Quasi-Peak values.
 2. The worst emission was detected at 550.816MHz with corrected signal level of 42.16dBuV/m (limit was 46dBuV/m) when the antenna was at horizontal polarization and was at 1.5m high and the turn table was at 115 °.
 3. 0 ° is the table front facing the antenna. Degree was calculated from 0 ° clockwise facing the antenna.

Date of Test : Aug. 21, 1998 Temperature : 31 °C

EUT : 15" Multi-Scan Color Monitor Humidity : 68 %

Test Mode : 66KHz/1280*1024 (M/N TX-T5N72)

Frequency MHz	Antenna		Cable		Meter Reading		Emission Level	
	Factor	dB/m	Loss	dB	Vertical	dBuV	Vertical	dBuV/m
					dBuV		Limits	Margin
							dBuV/m	dBuV/m
34.429	20.79	1.79	8.70	31.28	40.00	8.72		
55.084	15.43	2.49	14.10	32.02	40.00	7.98		
68.855	13.78	2.85	10.80	27.43	40.00	12.57		
* 75.750	15.52	2.96	19.30	37.78	40.00	2.22		
82.626	14.60	3.10	11.40	29.10	40.00	10.90		
89.511	13.89	3.24	15.90	33.03	43.50	10.47		
110.163	16.47	3.62	7.70	27.79	43.50	15.71		
123.936	17.41	3.91	5.50	26.82	43.50	16.68		
144.586	17.50	4.24	4.00	25.74	43.50	17.76		
158.371	19.37	4.42	- 1.50	22.29	43.50	21.21		
179.021	18.78	4.74	-1.80	21.72	43.50	21.78		
213.455	23.22	5.24	4.80	33.26	43.50	10.24		
227.223	22.26	5.41	2.30	29.97	46.00	16.03		
234.103	22.60	5.46	2.30	30.36	46.00	15.64		
240.995	22.47	5.56	3.40	31.43	46.00	14.57		
330.490	15.90	6.72	8.30	30.92	46.00	15.08		
344.267	15.20	6.90	5.20	27.30	46.00	18.70		
351.153	14.27	6.93	11.00	32.20	46.00	13.80		
371.811	14.58	7.18	11.00	32.76	46.00	13.24		
406.241	16.11	7.59	14.80	38.50	46.00	7.50		
426.893	16.65	7.79	10.80	35.24	46.00	10.76		
440.653	17.09	7.96	12.00	37.05	46.00	8.95		
461.325	17.57	8.14	12.60	38.31	46.00	7.69		
516.405	18.54	8.77	5.69	33.00	46.00	13.00		
550.816	19.41	9.16	13.40	41.97	46.00	4.03		

- Remark :
1. All reading were Quasi-Peak values.
 2. The worst emission was detected at 75.750MHz with corrected signal level of 37.78dBuV/m (limit was 40dBuV/m) when the antenna was at vertical polarization and was at 1m high and the turn table was at 190°.
 3. 0° is the table front facing the antenna. Degree was calculated from 0° clockwise facing the antenna.

4. DEVIATIONS TO TEST SPECIFICATIONS

[NONE]