

* Ferrite Bead

List of Test Equipment(s)

No.	Manufacturer	Products	Model No.	Serial No.	Remarks
1	Panasonic	MicroCast	KX-MC1PC	ES1001	EUT
2	Salom Electric	AC Adaptor	SADC-1165	N/A	AC120V, 60Hz
3	Panasonic	Hi-Fi Stereo	PV-8451	J8SC27157	FCC ID: ACJ927098AH
4	Compaq	Personal Computer	DESKPRO XE 4100	7450HK30120	FCC ID: CNT75MCX1
5	Panasonic	CRT	C-1795E	KH3430406	FCC ID: ACJ928KMX-F1701
6	Chicony Electronics	Keyboard	KB-9320	TIM5200558	FCC ID: E8HKB-5323
7	Logitech	Mouse	13H6690	23-G432148	FCC ID: DZL210429
8	Key systems Cord	Hi-Fi Speaker	SP-306G	J812031243	2 pcs
9	Hewlett Packard	Printer	C4608A	SG76A1D0VG	FCC ID: B94C2164X
10	Hewlett Packard	ACAdaptor	C2178A	280597	DC30V, 0.4A
11	Epson	Modem	C202A	010802	FCC ID: BKM552C202A
12	Epson	AC Adaptor	H00AAJ	N/A	DC6V, 0.6A

List of Cable(s)

Equip ment	Terminal	Cable	Length	Equip ment	Terminal	Remarks
1	Video Audio (L/R)	Audio Cable	1.4m	3	Video Out Audio Out	Contains of 3 cables
1	Keyboard	PS/2 Cable	1.4m	3	Keyboard	
1	Mouse	PS/2 Cable	1.4m	4	Mouse	
1	15D-Sub	D-Sub Cable	1.4m	4	Joystick	
1	Video	Video Cable	1.4m	4	Video	Cores at both Ends
1	Video	Video Cable	1.4m	5	Video	Cores at both Ends
2		DC Cable	1.8m	1	DC IN	
3	AC IN	AC 2P	1.5m			AC120V, 60Hz
3	Video IN Audio (L/R)	Audio Cable	1.9m		Open	
3	Ant		1.0m		Open	
4	AC IN	AC 3P	2.1m			AC120V, 60Hz
4		Modular Cable	2.1m		Open	
5	AC IN	AC 3P	1.4m			AC120V, 60Hz
6		Keyboard cable	1.5m	1	Keyboard	
7		Mouse Cable	1.8m	1	Mouse	
8		AC 2P	1.6m			AC120V, 60Hz
8		Speaker Cable	1.7m	1		
8		Speaker Cable	2.1m	8		
9	Parallel	Parallel Cable	3.0m	4	Parallel	
10		DC Cable	1.8m	9	DC IN	DC30V, 0.4A
11	DTE	Serial Cable	2.0m	4	Serial	
11	Line Phone	Modular Cable	2.1m		Open	2 pcs
12		DC Cable	1.9m	11	DC IN	DC6V, 0.6A

RADIATED EMISSION

The test setup was made according to ANSI STD C63.4-1992 clause 8 on a 3 meter anechoic chamber, which allows a 3 m distance measurement. The EUT shall be located on the non-conductive wooden table top and they are all aligned and flush with rear of this table top. The height of this table was 0.8 m and 1.5 m wide x 1.0 m deep size. Spacing between the each equipment maintain 10 cm. Connection of the EUT to the artificial mains network is required and artificial mains network is located under the turn table. The artificial mains network is 50 ohm terminated. The mains flexible cords were dropped to the floor and is routed over to receptacle. Interconnecting cables of table top equipment were shortened to appropriate length on the table. The measurement has been conducted with both horizontal and vertical antenna polarization. The turntable has been fully rotated. The highest radiation of the equipment has been recorded. By varying the configuration of the test sample and the cable routing it was attempted to maximize the radiated emission. For further description of the configuration refer to the pictures of this report.

Distance between equipment and antenna : 3 m
 Height of antenna : 1 m to 4 m

RADIATED EMISSION (9 kHz to 30 MHz)

The test setup for the frequency range 9 kHz to 30 MHz was on a 3 meter anechoic chamber, which allows a 3 m distance measurement. The EUT and peripherals shall be located on the non-conductive wooden table top and they are all aligned and flush with rear of this table top. The height of this table was 0.8 m and 1.5 m wide x 1.0 m deep size. Spacing between the each equipment maintain 10 cm. The mains flexible cords were dropped to the floor and is routed over to receptacle. Interconnecting cables of table top equipment that hang closer than 0.4 m to the ground plane shall be folded back and forth forming a bungle 30 to 40 cm long, hanging approximately in the middle between ground plane and table. The measurement has been conducted with both horizontal and vertical antenna polarization. The turntable has been fully rotated. The highest radiation of the equipment has been recorded. By varying the configuration of the test sample and the cable routing it was attempted to maximize the radiated emission.

Distance between equipment and antenna : 3 m (9 kHz to 1 GHz)
 * due to Only for the spectrum investigation

Height of antenna : 1 m (9 kHz to 30 MHz)

Number of Channels Tested:

Frequency Band	Number of Channels	Channel Location
Less than 1MHz	1	Middle
1 - 10MHz	2	Top, Bottom
More than 10MHz	3	Top, Middle, Bottom

List of the Instrumentation

1. Radiation(30MHz - 1GHz)

- 1) Equipment : Test Receiver (For the final measurement)
Model No. : HP8546A
S/N : 3807A00432
Manufacture : Hewlett Packard
Frequency Range: 9 kHz to 6.9 GHz
System Bandwidth: 10 kHz
Detector : Quasi-Peak
Last Calibrate : 1998/12/09
Next Calibrate : 1999/12/09
- 2) Equipment : Bilog Antenna (For the spectrum analysis)
Model No. : CBL6140A
S/N : 1124
Manufacture : Chase
Frequency Range: 30 MHz to 1000 MHz
Last Calibrate : 1999/02/01
Next Calibrate : 2000/02/01
- 3) Equipment : Tunable Dipole Antenna
(For the final measurement)
Model No. : VHA9103
S/N : 91031513
Manufacture : Schwarzbeck
Frequency Range: 30 MHz to 300 MHz
Last Calibrate : 1998/10/08
Next Calibrate : 1999/10/08
- 4) Equipment : Tunable Dipole Antenna
(For the final measurement)
Model No. : UHA9105
S/N : 91052108
Manufacture : Schwarzbeck
Frequency Range: 300 MHz to 1000 MHz
Last Calibrate : 1998/10/08
Next Calibrate : 1999/10/08
- 5) Equipment : Attenuator (Connected to the Antenna)
Model No. : MP721A
S/N : M47971
Manufacture : Anritsu
Frequency Range: 30 MHz to 1000 MHz
Calibrated with the Cable system
- 6) Equipment : Step Attenuator (For the Pre-Amp. Saturation)
Model No. : HP8494B
S/N : 3308A37637
Manufacture : Hewlett Packard
Frequency Range: 30 MHz to 1000 MHz
Calibrated with the Cable system

- 7) Equipment : Pre Amplifier
Model No. : HP8347A
S/N : 3307A01779
Manufacture : Hewlett Packard
Frequency Range : 30 MHz to 3000 MHz
Calibrated with the Cable system
- 8) Equipment : Cable System
Consists of : Attenuator, Pre-Amplifier, Switch Unit and cable
Manufacture : IPS Corporation
Frequency Range : 30 MHz to 1000 MHz
Last Calibrate : 1999/02/01
Next Calibrate : 2000/02/01
- 9) Equipment : LISN for EUT & Peripherals
Model No. : A
S/N : 003 / 004
Manufacture : IPS
Frequency Range : 0.15 MHz to 30 MHz
RF Load : 50 ohm 50 micro henry, 50 ohm terminated
Located under the turn table. Non calibration equipment.

2. Radiation(1GHz - 40GHz)

- 1) Equipment : Test Receiver (For the final measurement)
Model No. : 2784
S/N : B020190
Manufacture : Textronix
Frequency Range : 9 kHz to 40 GHz
System Bandwidth: 10 kHz
Detector : Quasi-Peak
Last Calibrate : 1999/03/12
Next Calibrate : 2000/03/31
- 2) Equipment : Guide Antenna (For the spectrum analysis)
Model No. : 3115
S/N : 9512-4647
Manufacture : EMCO
Frequency Range : 1GHz to 18GHz
Last Calibrate : 1998/08/19
Next Calibrate : 1999/08/31
- 3) Equipment : Guide Antenna (For the spectrum analysis)
Model No. : 3116
S/N : 9512-2277
Manufacture : EMCO
Frequency Range : 18GHz to 40GHz
Last Calibrate : 1998/08/19
Next Calibrate : 1999/08/31
- 4) Equipment : Pre Amplifier
Model No. : HP83051A
S/N : 3332A00357
Manufacture : Hewlett Packard
Frequency Range : 45 MHz to 50 GHz
Calibrated with the Cable System
- 5) Equipment : 4 m Junflon Cable System (For 1 GHz to 40 GHz)
Consists of : Pre-Amplifier and Cable.
Manufacture : IPS Corporation
Frequency Range : 1 GHz to 40 GHz
Last Calibrated : 1998/11/21
Next Calibrated : 1999/11/21

3. Magnetic Field Emission(9kHz - 30MHz)

- 1) Equipment : Test Receiver (For the final measurement)
 - Model No. : HP8546A
 - S/N : 3807A00432
 - Manufacture : Hewlett Packard
 - Frequency Range : 9 kHz to 6.9 GHz
 - System Bandwidth: 10 kHz
 - Detector : Quasi-Peak
 - Last Calibrate : 1998/12/09
 - Next Calibrate : 1999/12/09

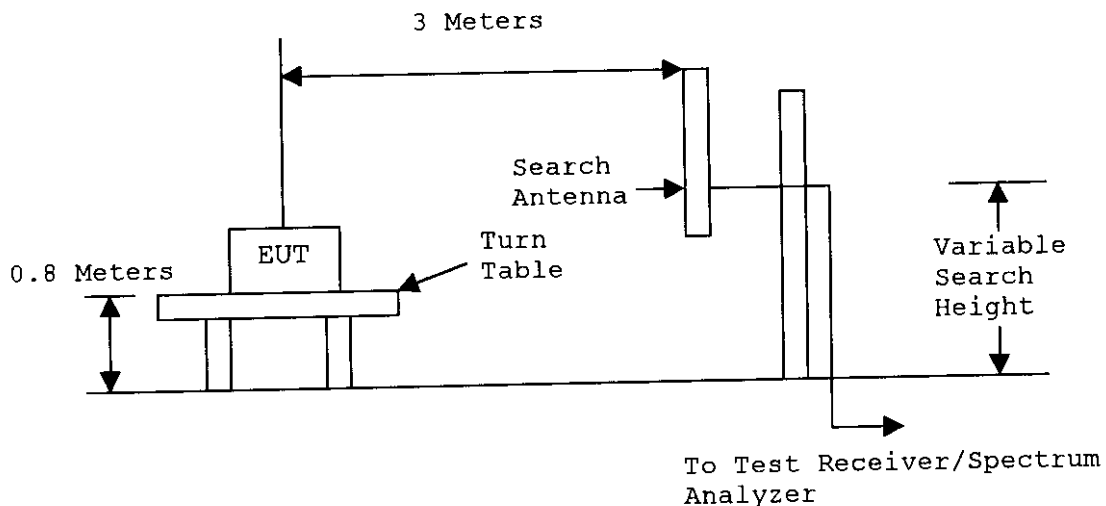
- 2) Equipment : LoopAntenna (For the spectrum analysis)
 - Model No. : HLA6120
 - S/N : 1131
 - Manufacture : Chase
 - Frequency Range : 10 KHz to 30 MHz
 - Last Calibrate : 1999/06/11
 - Next Calibrate : 2000/06/11

- 3) Equipment : Cable System
 - Consists of : Attenuator, Pre-Amplifier, Switch Unit and cable
 - Manufacture : IPS Corporation
 - Frequency Range : 30 MHz to 1000 MHz
 - Last Calibrate : 1999/02/01
 - Next Calibrate : 2000/02/01

- 4) Equipment : LISN for EUT & Peripherals
 - Model No. : A
 - S/N : 003 / 004
 - Manufacture : IPS
 - Frequency Range : 0.15 MHz to 30 MHz
 - RF Load : 50 ohm 50 micro henry
 - : 50 ohm terminated
 - Located under the turn table.
 - Non calibration equipment.

BLOCK DIAGRAM

TEST SITE FOR RADIATED EMISSIONS



*****<I P S Corporation>*****
<<< RADIATED EMISSION >>>

20 August, 1999 21:22
Page 1

Model : KX-MC1PC
Serial No. : ES1001
Standard : FCC Part15C.249(a)
Condition File : C210Gtk
Condition :
Remarks : EUT NAME : MicroCast
: PC Mode , ch=1 , f=5.755GHz
: FILE No. : 010
AC Power : 120 V 60 Hz
Temperature : 25 deg.
Humidity : 57 %
Operator : T.YAMAGUCHI



----- Spectrum Selection -----

- Horizontal Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	5757.774	74.0	15.3	89.3	94.0	4.7

- Vertical Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
2	5756.725	74.3	15.3	89.6	94.0	4.4

Date/Time : 20 August, 1999 21:20

<<< RADIATED EMISSION >>>

< I P S Corporation >
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Standard : FCC Part15C.249(a)
Operator : T. YAMAGUCHI



Model : KX-MC1PC
Serial No. : EST001
Remarks : EUT NAME : MicroCast
PC Mode , ch=1 , f=5.755GHz
FILE No. : 010

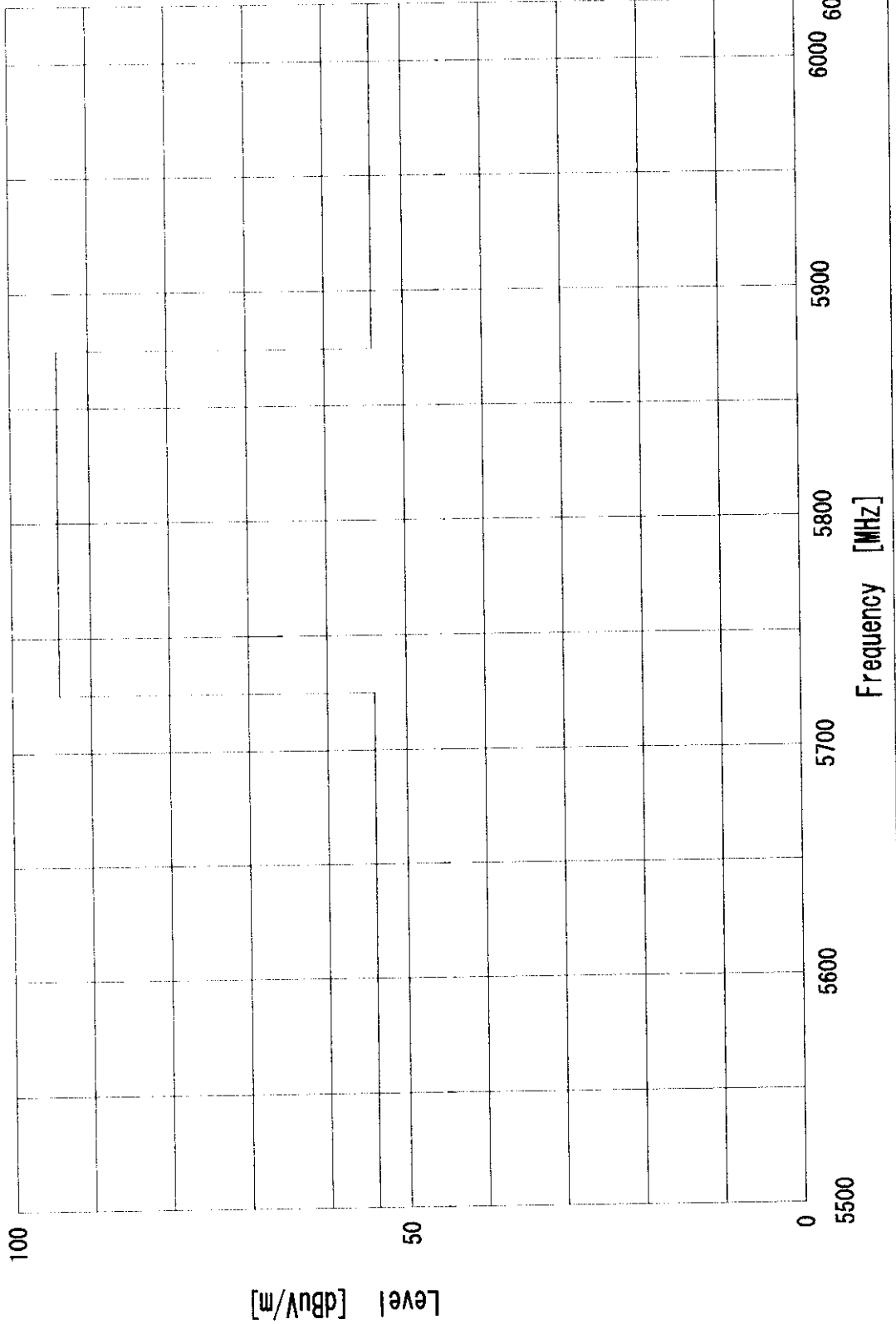
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VBW : 3kHz

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< I P S Corporation >
I P S EMC SITE

<<< RADIATED EMISSION >>>

Date/Time : 20 August, 1999 21:20

Model : KX-MC1PC
Serial No. : ES1001
Remarks : EUT NAME : MicroCast
PC Mode , ch=1 , f=5.755GHz
FILE No. : 010

Standard : FCC Part15C.249(a)
Operator : T. YAMAGUCHI



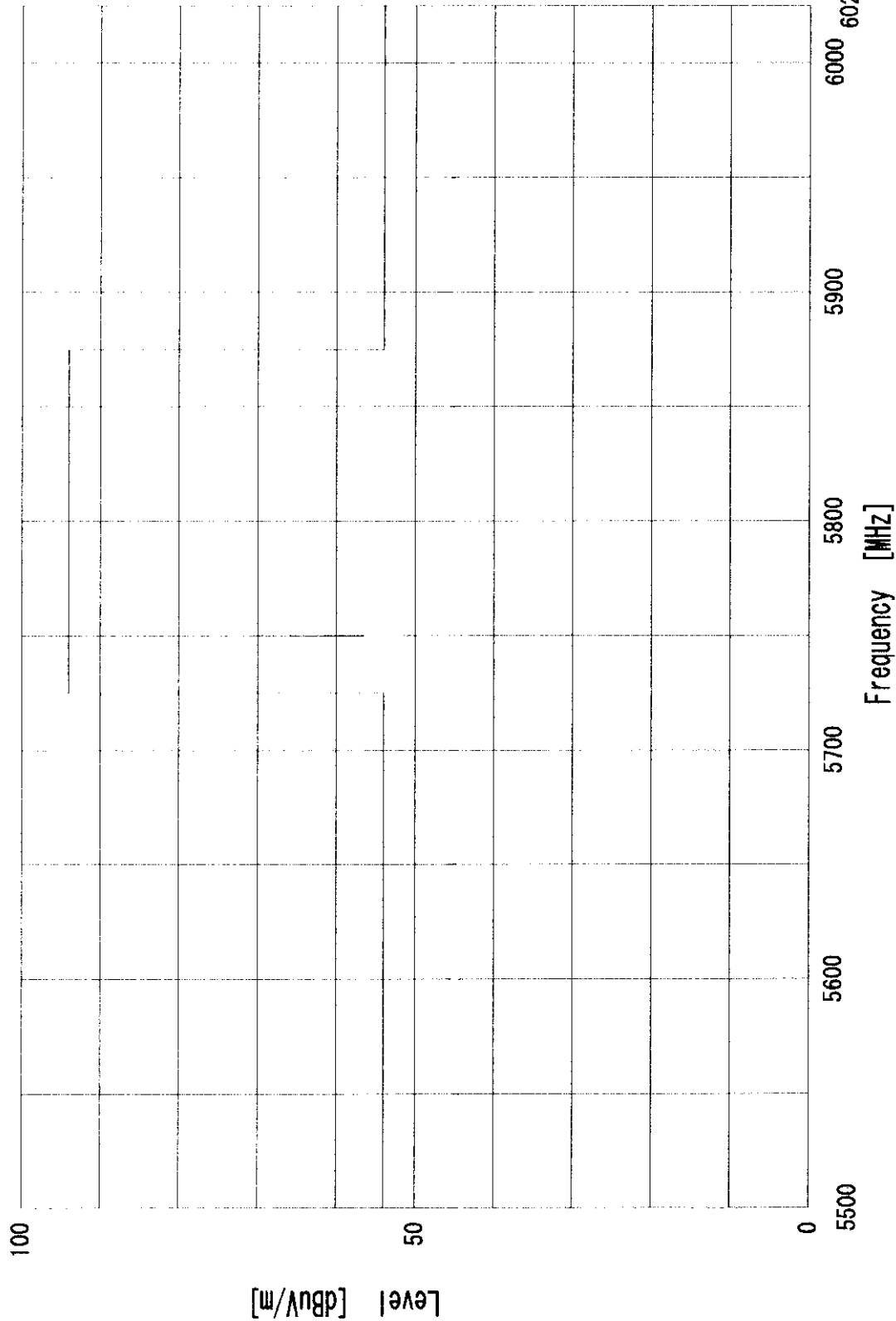
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Range : 10
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*****<I P S Corporation>*****

<<< RADIATED EMISSION >>>

19 August, 1999 15:35

Page 1

Model : KX-MC1PC
 Serial No. : ES1001
 Standard : FCC Part15C.249(a)
 Condition File : C210Gtk
 Condition :
 Remarks : EUT NAME : MicroCast
 : PC Mode , ch=2 , f=5.785GHz
 : FILE No. : 011
 AC Power : 120 V 60 Hz
 Temperature : 25 deg.
 Humidity : 57 %
 Operator : T.YAMAGUCHI



----- Spectrum Selection -----

- Horizontal Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	5787.175	72.9	15.2	88.1	94.0	5.9

- Vertical Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
2	5787.175	73.3	15.2	88.5	94.0	5.5

Date/Time : 19 August, 1999 15:29

<<< RADIATED EMISSION >>>

< I P S Corporation >
I P S EMC SITE

Standard : FCC Part15C.249(a)
Operator : T. YAMAGUCHI

Model : KX-MC1PC
Serial No. : ES1001
Remarks : EUT NAME : MicroCast
PC Mode , ch=2 , f=5.785GHz
FILE No. : 011



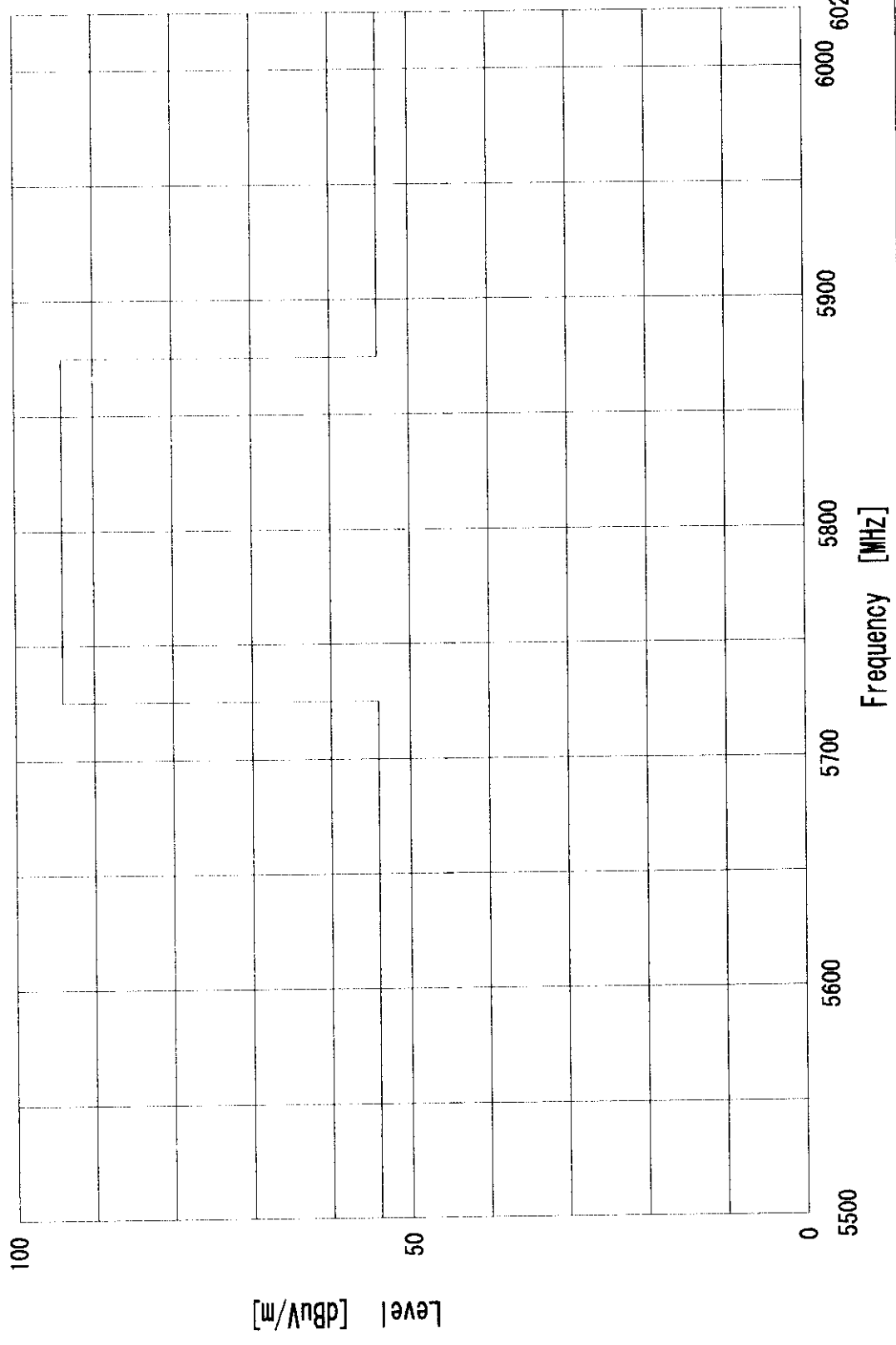
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Range : 10
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I P S EMC SITE

<<< RADIATED EMISSION >>>

Date/Time : 19 August, 1999 15:29

Model : KX-MC1PC
Serial No. : ES1001
Remarks : EUT NAME : MicroCast
PC Mode , ch=2 , f=5.785GHz
FILE No. : 011

Standard : FCC Part15C.249(a)
Operator : T. YAMAGUCHI



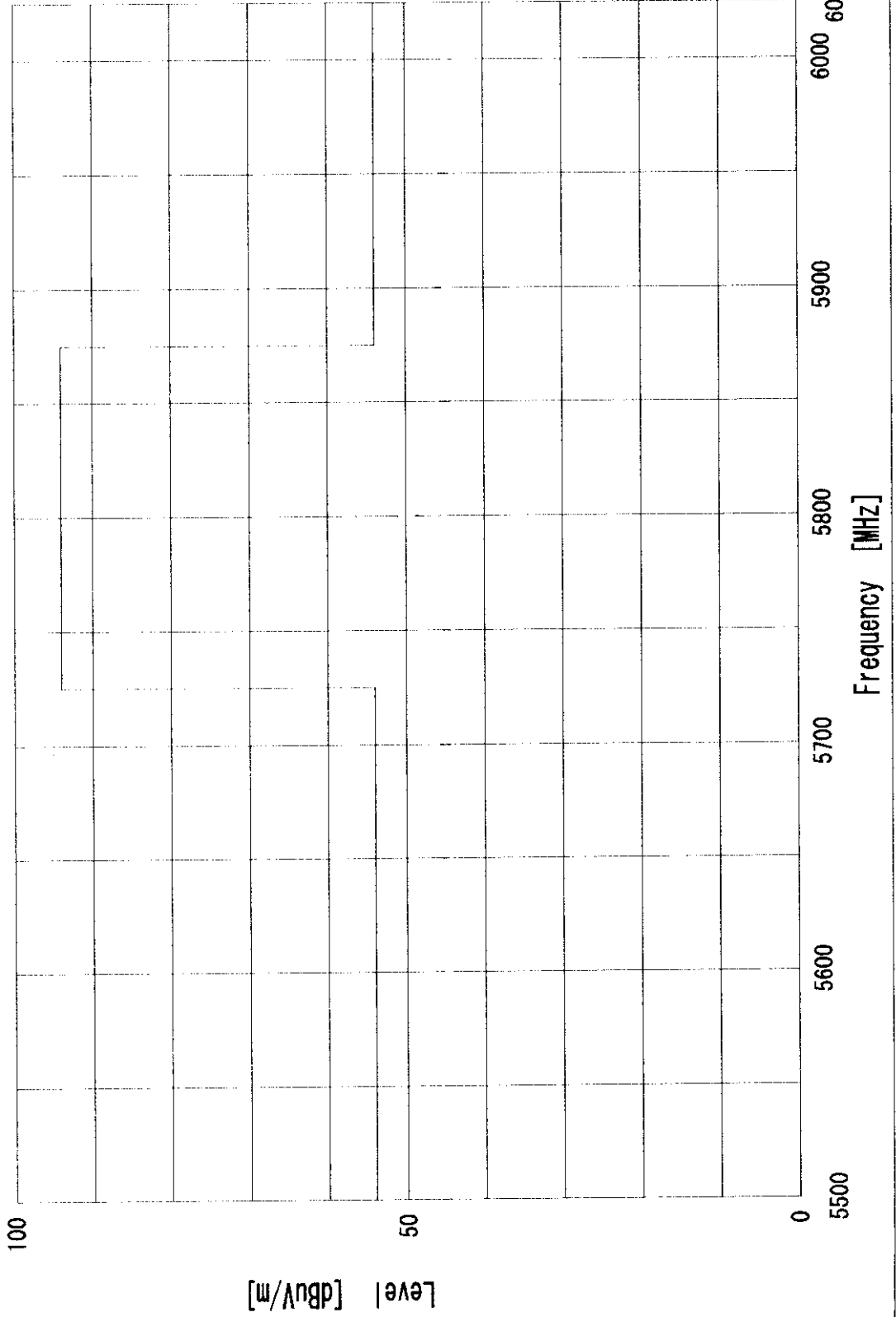
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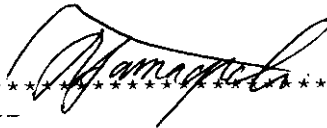
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*****<I P S Corporation>*****
<<< RADIATED EMISSION >>>

19 August, 1999 13:43
Page 1

Model : KX-MC1PC
Serial No. : ES1001
Standard : FCC Part15C.249(a)
Condition File : C210Gtk
Condition :
Remarks : EUT NAME : MicroCast
: PC Mode , ch=4 , f=5.845GHz
: FILE No. : 007
AC Power : 120 V 60 Hz
Temperature : 26 deg.
Humidity : 58 %
Operator : T.YAMAGUCHI



----- Spectrum Selection -----

- Horizontal Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	5847.024	75.0	15.6	90.6	94.0	3.4

- Vertical Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
2	5847.024	75.0	15.6	90.6	94.0	3.4

< I P S Corporation >
I P S EMC SITE

<<< RADIATED EMISSION >>>

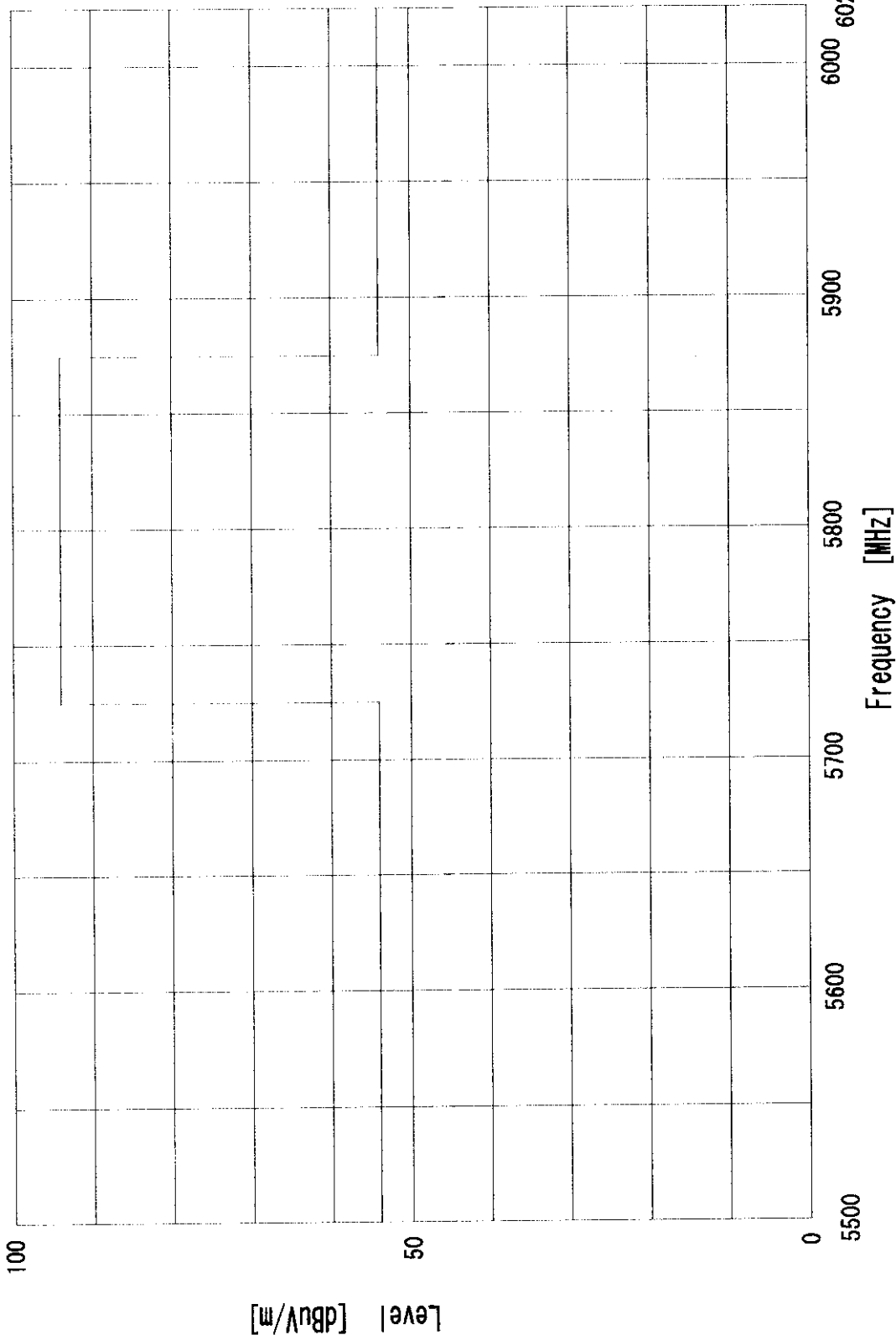
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Model : KX-MC1PC
Serial No. : ES1001
Remarks : EUT NAME : MicroCast
PC Mode , ch=4 , f=5.845GHz
FILE No. : 007

Standard : FCC Part15C.249(a)
Operator : T. YAMAGUCHI



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VBW : 3kHz
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Limit:
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Range : 10
Horizontal



Date/Time : 19 August, 1999 13:35

<<< RADIATED EMISSION >>>

< I P S Corporation >
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Standard : FCC Part15C.249 (a)
Operator : T. YAMAGUCHI

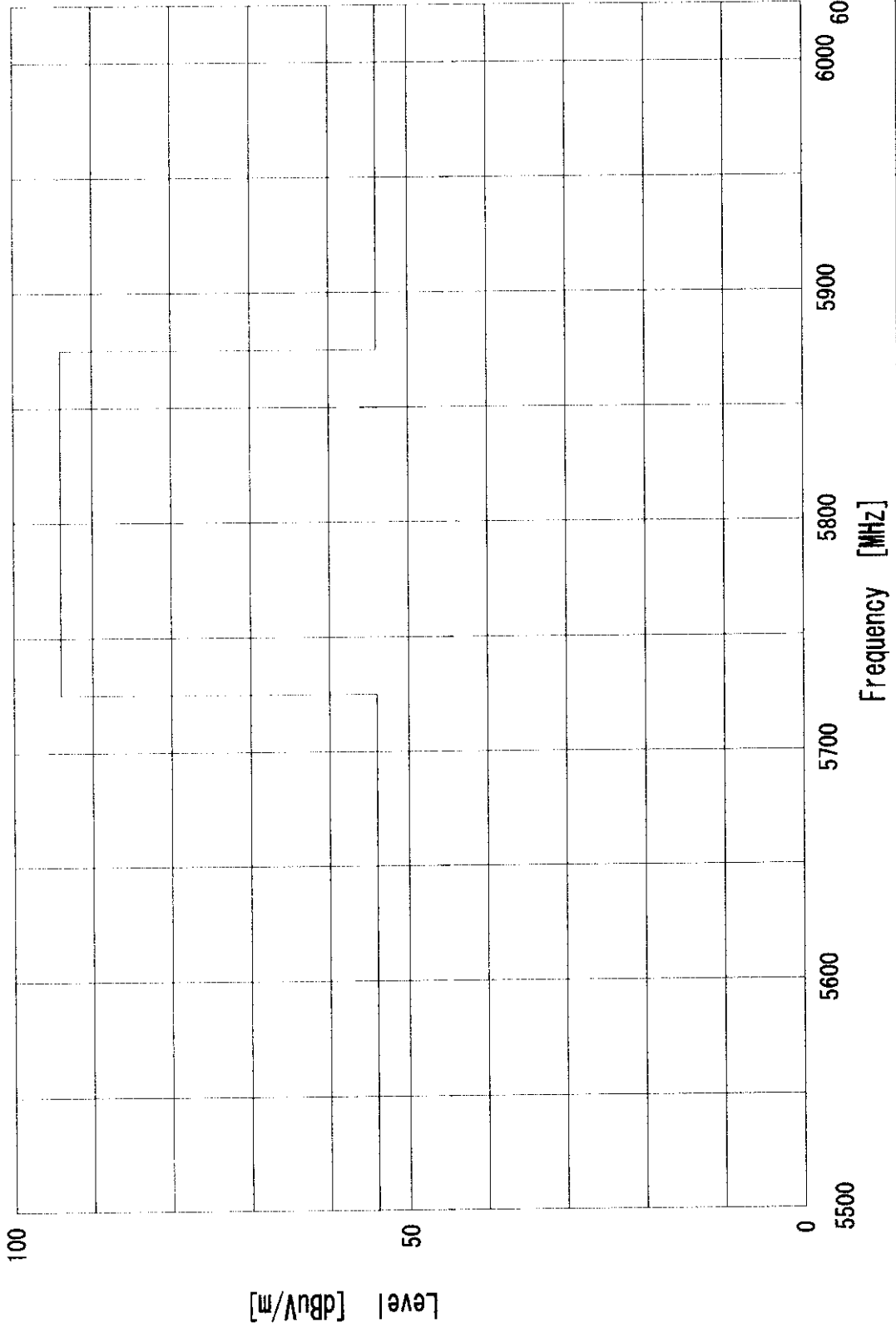


Model : KX-MC1PC
Serial No. : ES1001
Remarks : EUT NAME : MicroCast
PC Mode , ch=4 , f=5.845GHz
FILE No. : 007

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VBW : 3kHz
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Limit:
FCC_15C

< Data >
Range : 10
Vertical



Level [dBuV/m]

Frequency [MHz]

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<<< RADIATED EMISSION >>>

19 August, 1999 14:42
Page 1

Model : KX-MC1PC
Serial No. : ES1001
Standard : FCC Part15C.249(a)
Condition File : C210Gtk
Condition :
Remarks : EUT NAME : MicroCast
: Theater Mode , ch=1 , f=5.755GHz
: FILE No. : 009
AC Power : 120 V 60 Hz
Temperature : 25 deg.
Humidity : 57 %
Operator : T.YAMAGUCHI



----- Spectrum Selection -----

- Horizontal Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	5757.774	74.6	15.3	89.9	94.0	4.1

- Vertical Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
2	5757.774	74.2	15.3	89.5	94.0	4.5

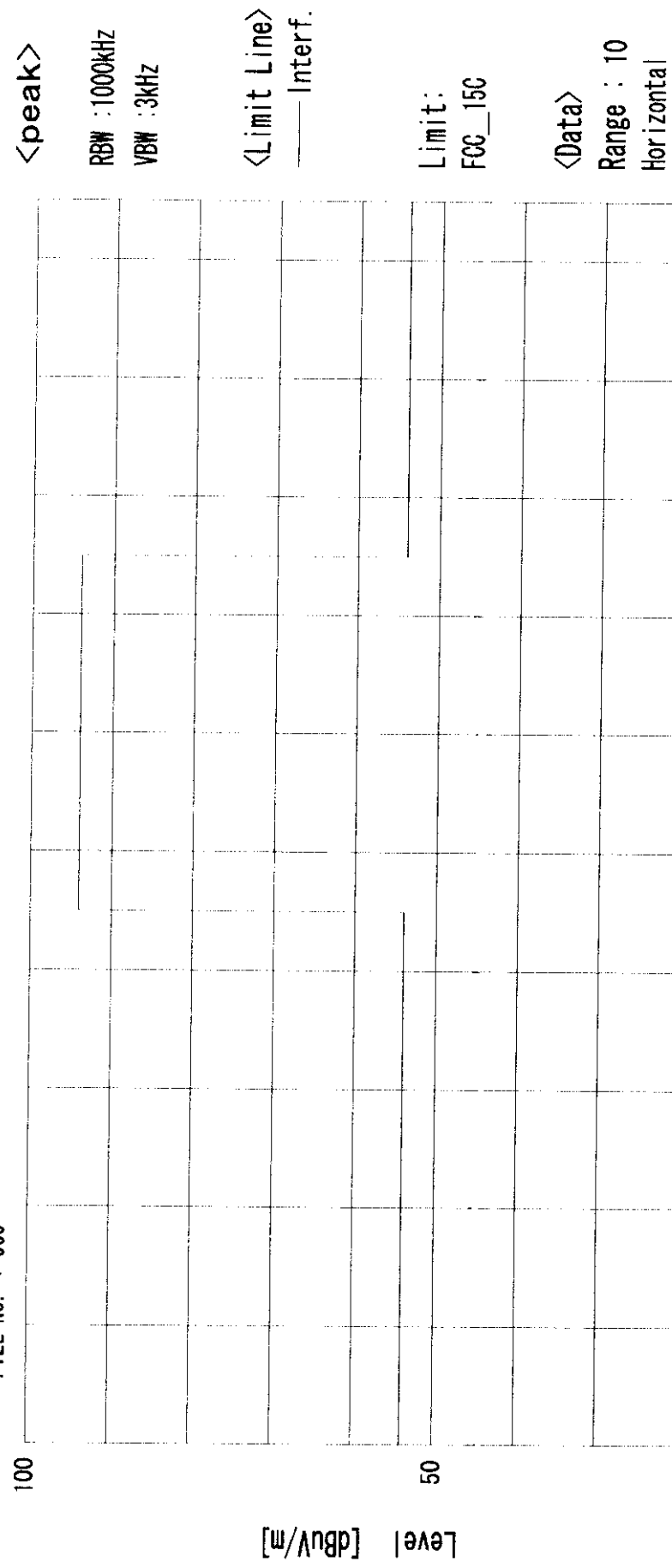
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<<< RADIATED EMISSION >>>

Date/Time : 19 August, 1999 14:36

Model : KX-MCIPC
Serial No. : ES1001
Remarks : EUT NAME : MicroCast
Theater Mode , ch=1 , f=5.755GHz
FILE No. : 009

Standard : FCC Part15C, 249 (a)
Operator : T. YAMAGUCHI



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<<< RADIATED EMISSION >>>

Date/Time : 19 August, 1999 14:36

Model : KX-MC1PC
Serial No. : ES1001
Remarks : EUT NAME : MicroCast
Theater Mode , ch=1 , f=5.755GHz
FILE No. : 009

Standard : FCC Part15C.249(a)
Operator : T. YAMAGUCHI



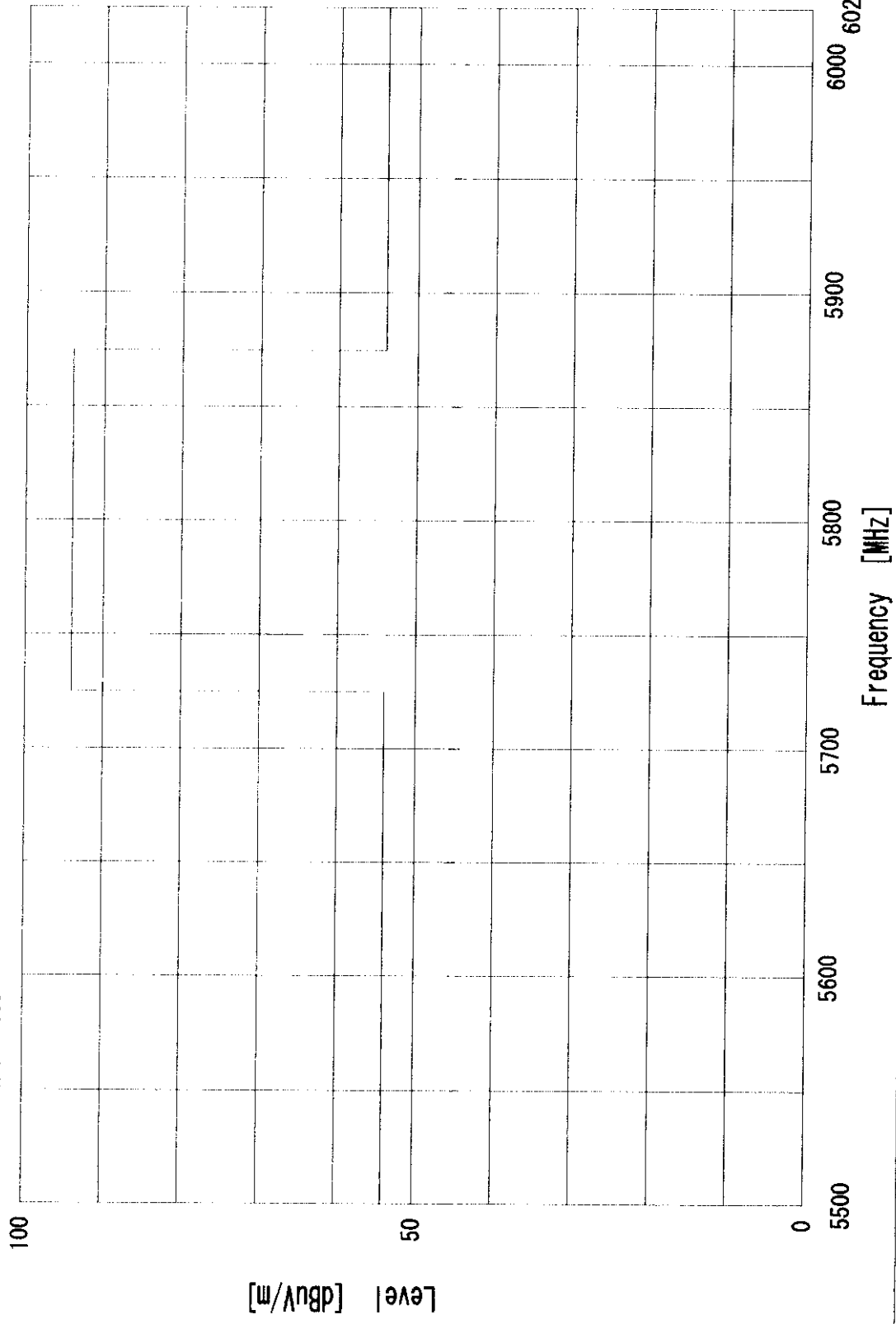
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Limit:
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Range : 10
Vertical



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<<< RADIATED EMISSION >>>

19 August, 1999 16:01
Page 1

Model : KX-MC1PC
Serial No. : ES1001
Standard : FCC Part15C.249(a)
Condition File : C210Gtk
Condition :
Remarks : EUT NAME : MicroCast
: Theater Mode , ch=2 , f=5.785GHz
: FILE No. : 012
AC Power : 120 V 60 Hz
Temperature : 24 deg.
Humidity : 58 %
Operator : T.YAMAGUCHI



----- Spectrum Selection -----

- Horizontal Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	5787.175	72.4	15.2	87.6	94.0	6.4

- Vertical Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
2	5787.175	72.8	15.2	88.0	94.0	6.0

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I P S EMC SITE

<<< RADIATED EMISSION >>>

Date/Time : 19 August, 1999 15:56

Model : KX-MC1PC
Serial No. : ES1001
Remarks : EUT NAME : MicroCast
Theater Mode , ch=2 , f=5.785GHz
FILE No. : 012

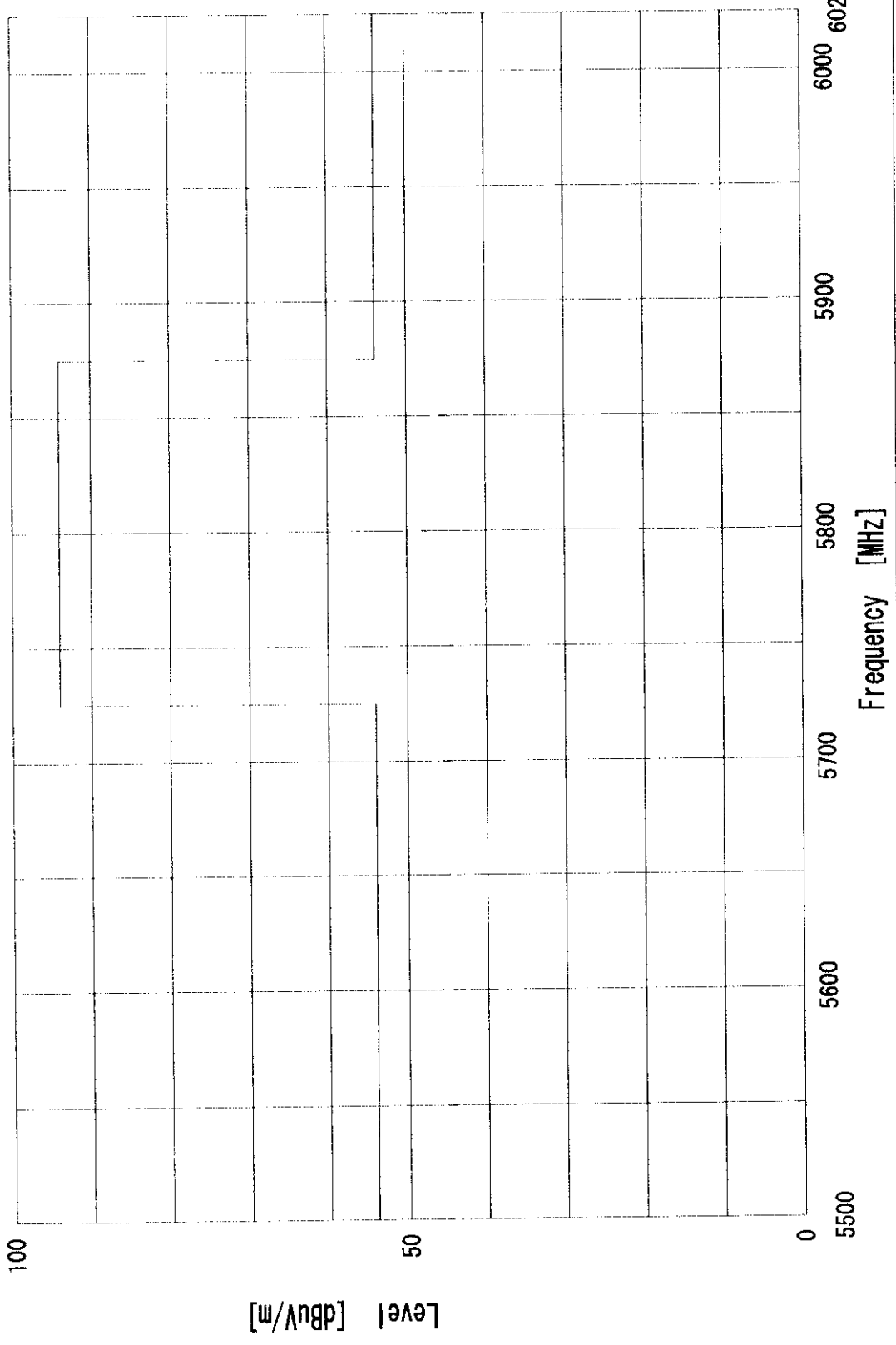
Standard : FCC Part15C.249 (a)
Operator : T. YAMAGUCHI



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VBW : 3kHz
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Limit:
FCC_15C

< Data >
Range : 10
Horizontal



< I P S Corporation >
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<<< RADIATED EMISSION >>>

Date/Time : 19 August, 1999 15:56

Model : KY-MC1PC

Serial No. : ES1001

Remarks : EUT NAME : MicroCast

Theater Mode , ch=2 , f=5.785GHz

FILE No. : 012

Standard : FCC Part15C.249(a)

Operator : T. YAMAGUCHI



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VBW : 3kHz

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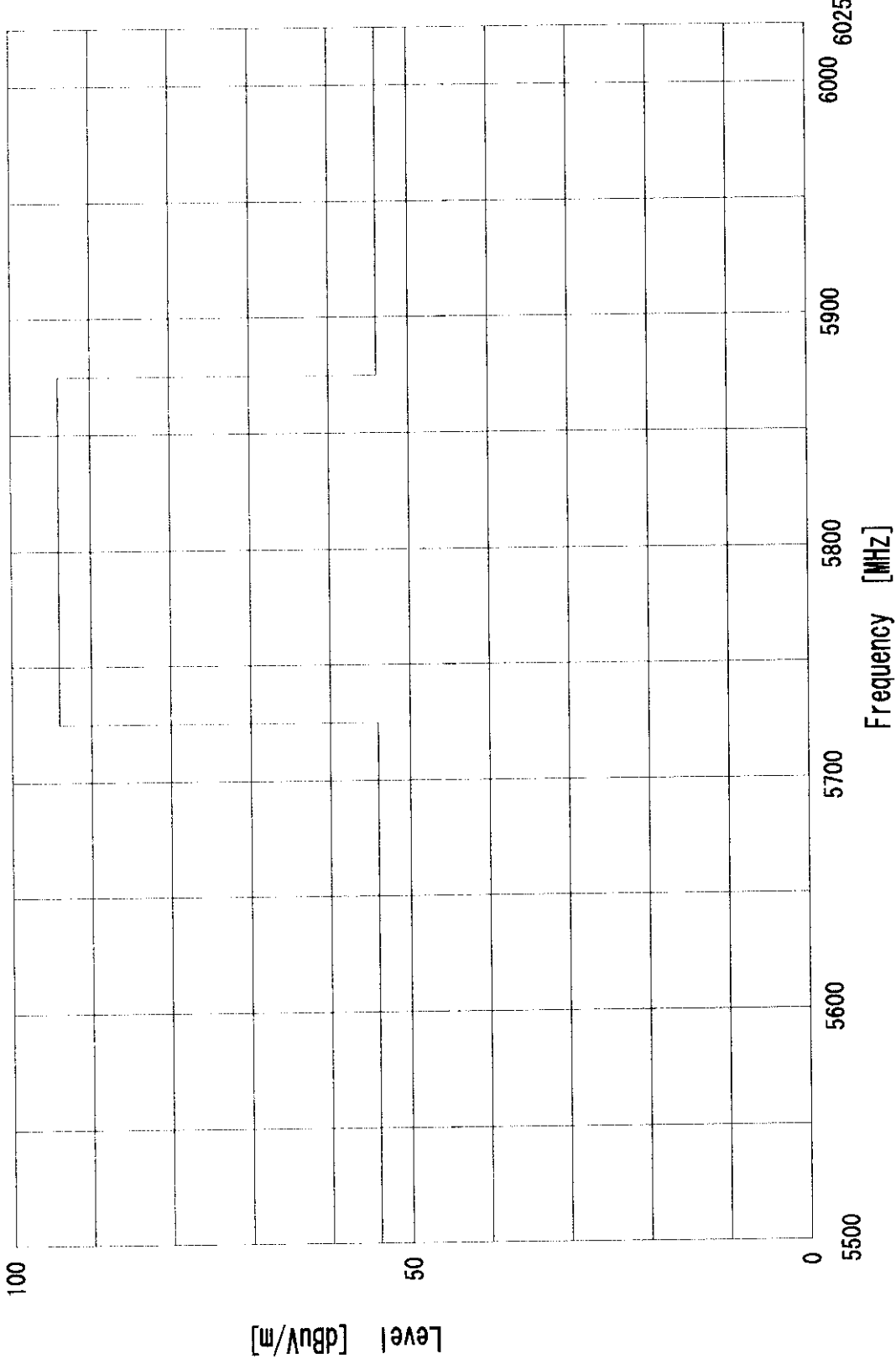
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FCC_15C

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Range : 10

Vertical



*****<I P S Corporation>*****
<<< RADIATED EMISSION >>>

19 August, 1999 14:13
Page 1

Model : KX-MC1PC
Serial No. : ES1001
Standard : FCC Part15C.249(a)
Condition File : C210Gtk
Condition :
Remarks : EUT NAME : MicroCast
: Theater Mode , ch=4 , f=5.845GHz
: FILE No. : 008
AC Power : 120 V 60 Hz
Temperature : 26 deg.
Humidity : 58 %
Operator : T.YAMAGUCHI



----- Spectrum Selection -----

- Horizontal Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	5848.074	75.0	15.6	90.6	94.0	3.4

- Vertical Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
2	5848.074	75.0	15.6	90.6	94.0	3.4

Date/Time : 19 August, 1999 14:04

<<< RADIATED EMISSION >>>

< I P S Corporation >
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Model : KX-MC1PC
Serial No. : ES1001
Remarks : EUT NAME : MicroCast
Theater Mode , ch=4 , f=5.845GHz
FILE No. : 008

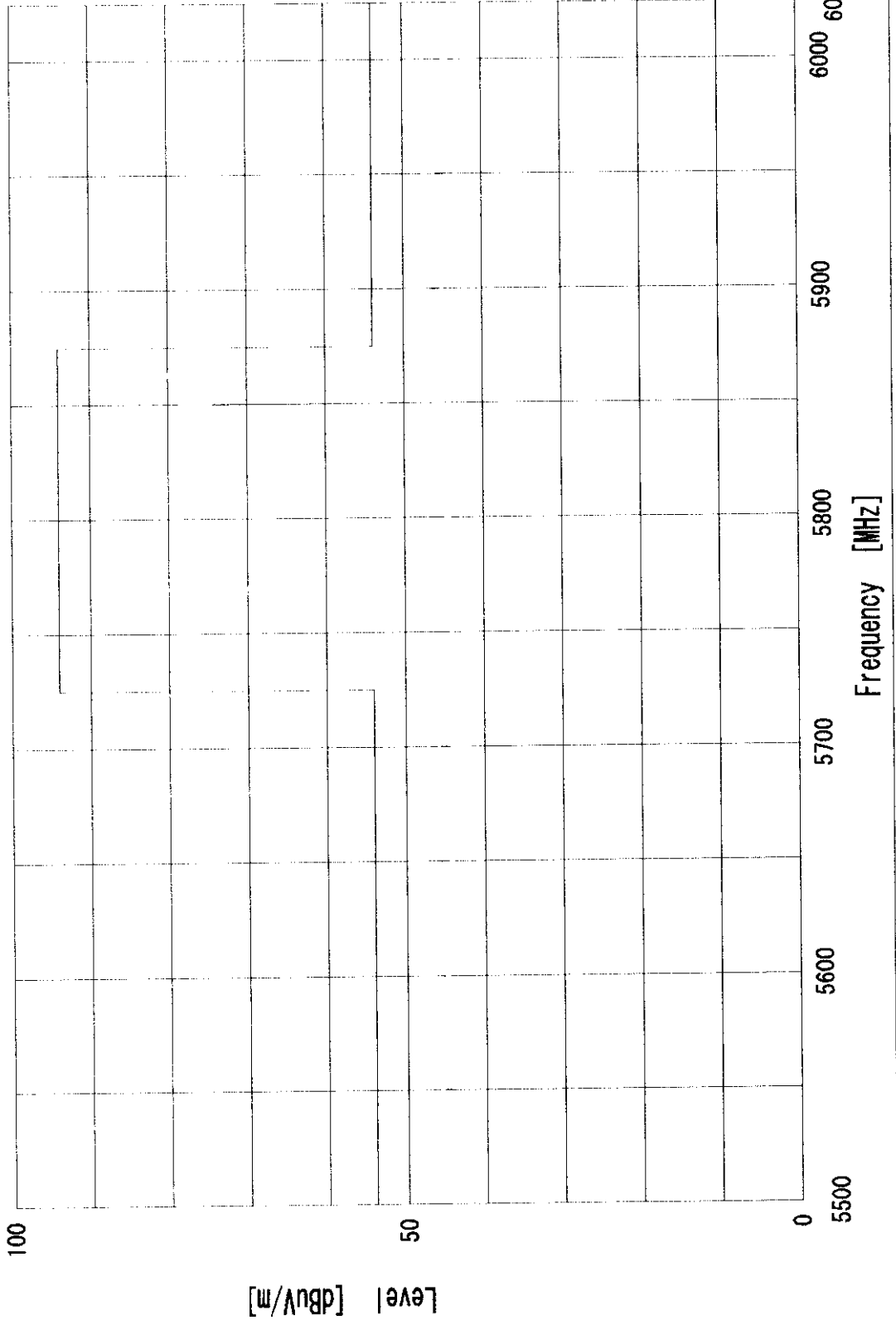
Standard : FCC Part15C.249(a)
Operator : T. YAMAGUCHI



<peak>
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VBW : 3kHz
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Limit:
FCC_15C

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Range : 10
Horizontal



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I P S EMC SITE

<<< RADIATED EMISSION >>>

Date/Time : 19 August, 1999 14:04

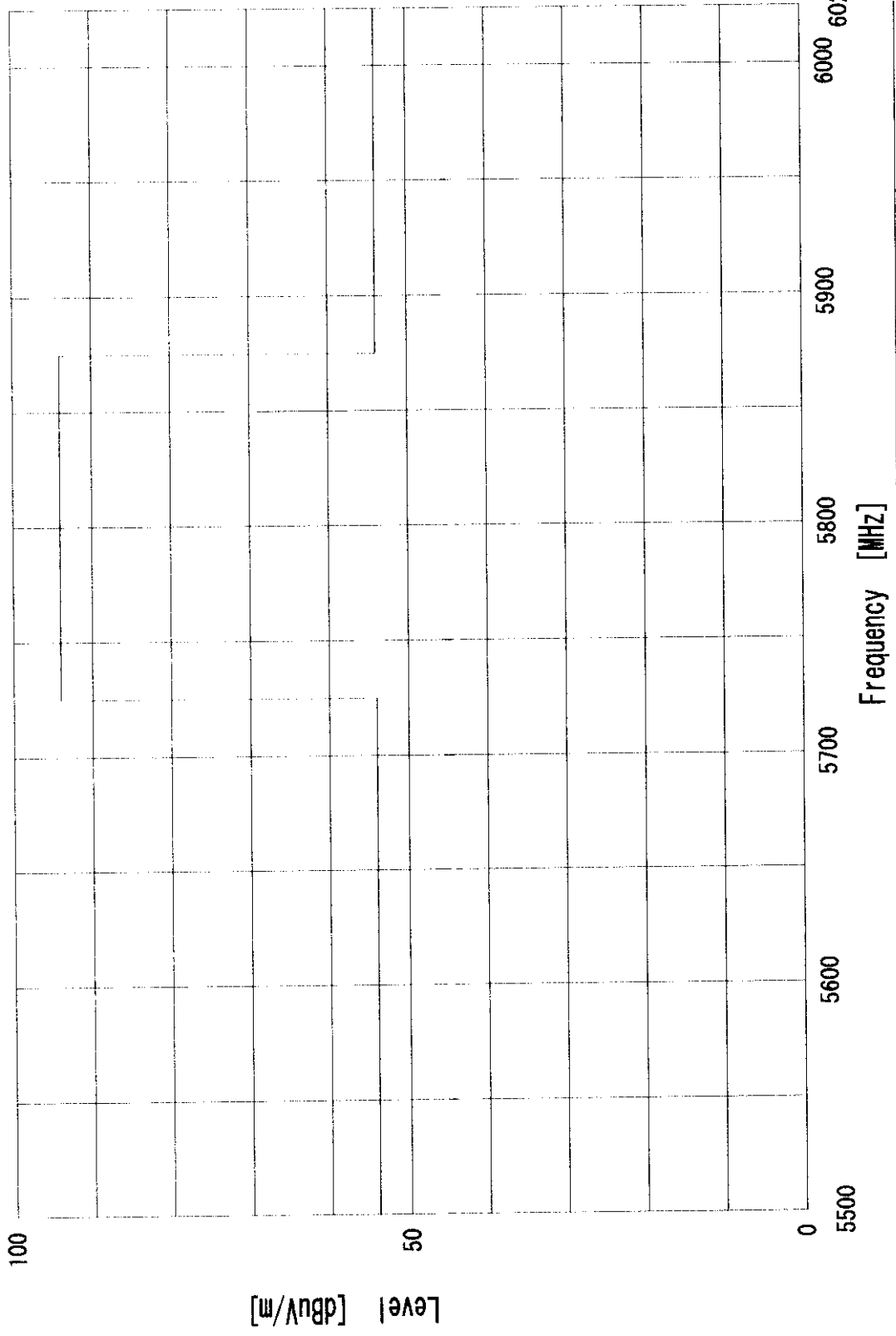
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Serial No. : ES1001
Remarks : EUT NAME : MicroCast
Theater Mode, ch=4, f=5.8456GHz
FILE No. : 008

Standard : FCC Part15C.249(a)
Operator : T. YAMAGUCHI



< peak >
RBW : 1000kHz
VBW : 3kHz
< Limit Line >
— Interf.

Limit:
FCC_15C
< Data >
Range : 10
Vertical



Level [dBuV/m]

Frequency [MHz]

Standard : FCC Part15C
Model : KX-MC1PC
S/N : ES1001
Product Name : MicroCast
File No : 006
Power Source : AC120V / 60Hz
Temp /Humi : 24deg / 58 %
Test Mode : PC Mode
Remarks : 1ch, f=5.755GHz
Operator : H. WAKABAYASHI

若林 浩

Final Result

--- Horizontal Polarization (QP) ---

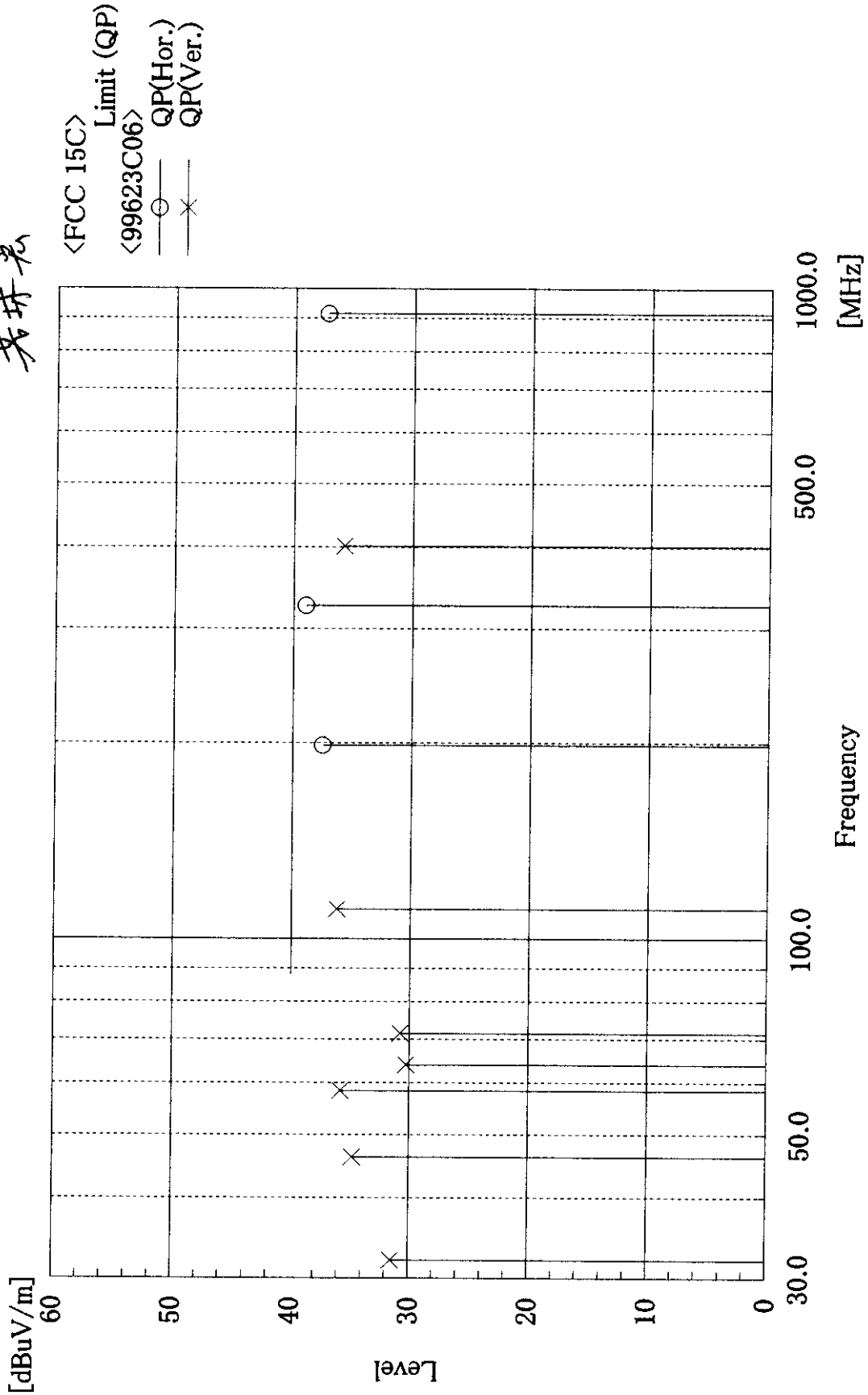
No.	Frequency [MHz]	Reading [dBuV]	c. f [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	198.260	51.0	-13.5	37.5	43.5	6.0
2	324.987	47.8	-8.8	39.0	46.0	7.0
3	914.599	34.5	2.8	37.3	46.0	8.7

--- Vertical Polarization (QP) ---

No.	Frequency [MHz]	Reading [dBuV]	c. f [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	31.976	36.3	-4.8	31.5	40.0	8.5
2	46.160	45.2	-10.4	34.8	40.0	5.2
3	58.266	51.1	-15.3	35.8	40.0	4.2
4	64.016	48.1	-17.8	30.3	40.0	9.7
5	71.348	52.2	-21.4	30.8	40.0	9.2
6	111.000	55.0	-18.8	36.2	43.5	7.3
7	400.917	42.8	-7.0	35.8	46.0	10.2

Model : KX-MCIPC
S/N : ES1001
Product Name : MicroCast
File No : 006
Power Source : AC120V / 60Hz

Standard : FCC Part15C
Temp / Humi : 24deg / 58 %
Test Mode : PC Mode
Remarks : 1ch, f=5.755GHz
Operator : H.WAKABAYASHI
荻井 亮



Standard : FCC Part15C
Model : KX-MC1PC
S/N : ES1001
Product Name : MicroCast
File No : 008
Power Source : AC120V / 60Hz
Temp /Humi : 24deg / 58 %
Test Mode : PC Mode
Remarks : 2ch, f=5.785GHz
Operator : H. WAKABAYASHI

若林 弘

Final Result

--- Horizontal Polarization (QP) ---

No.	Frequency [MHz]	Reading [dBuV]	c. f [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	64.041	51.1	-17.8	33.3	40.0	6.7
2	176.135	48.8	-14.7	34.1	43.5	9.4
3	198.262	51.9	-13.5	38.4	43.5	5.1

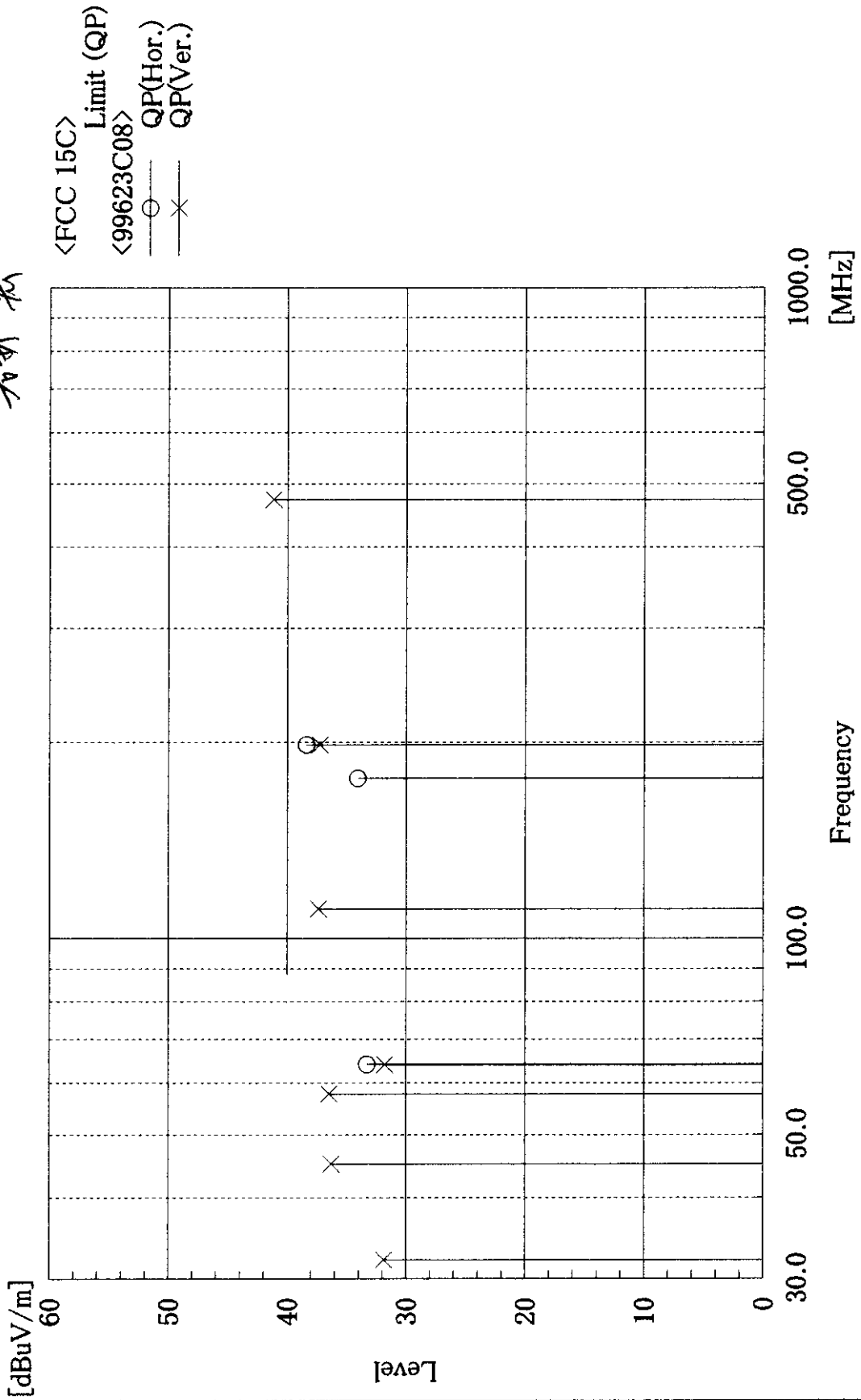
--- Vertical Polarization (QP) ---

No.	Frequency [MHz]	Reading [dBuV]	c. f [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	32.029	36.7	-4.8	31.9	40.0	8.1
2	44.974	46.1	-9.8	36.3	40.0	3.7
3	57.719	51.5	-15.0	36.5	40.0	3.5
4	64.022	49.6	-17.8	31.8	40.0	8.2
5	111.020	56.2	-18.8	37.4	43.5	6.1
6	198.246	50.8	-13.5	37.3	43.5	6.2
7	472.507	45.8	-4.6	41.2	46.0	4.8

Model : KX-MC1PC
S/N : ES1001
Product Name : MicroCast
File No : 008
Power Source : AC120V / 60Hz

Standard : FCC Part15C
Temp /Humi : 24deg / 58 %
Test Mode : PC Mode
Remarks : 2ch, f=5.785GHz
Operator : H.WAKABAYASHI

芳井 亮



***** IPS Corporation *****
<<Radiated Emission>>

18 August, 1999 21:13
99623C04.dat

Standard : FCC Part15C
Model : KX-MC1PC
S/N : ES1001
Product Name : MicroCast
File No : 004
Power Source : AC120V / 60Hz
Temp /Humi : 24deg / 58 %
Test Mode : PC Mode
Remarks : 4ch, f=5.845GHz
Operator : H. WAKABAYASHI

若林 宏

Final Result

--- Horizontal Polarization (QP) ---

No.	Frequency [MHz]	Reading [dBuV]	c. f [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	374.985	44.3	-7.3	37.0	46.0	9.0
2	472.509	43.7	-4.6	39.1	46.0	6.9
3	914.499	35.3	2.8	38.1	46.0	7.9

--- Vertical Polarization (QP) ---

No.	Frequency [MHz]	Reading [dBuV]	c. f [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	32.048	36.2	-4.8	31.4	40.0	8.6
2	45.151	44.9	-9.9	35.0	40.0	5.0
3	58.412	51.3	-15.3	36.0	40.0	4.0
4	71.321	52.3	-21.4	30.9	40.0	9.1
5	111.014	56.1	-18.8	37.3	43.5	6.2
6	374.985	45.4	-7.3	38.1	46.0	7.9

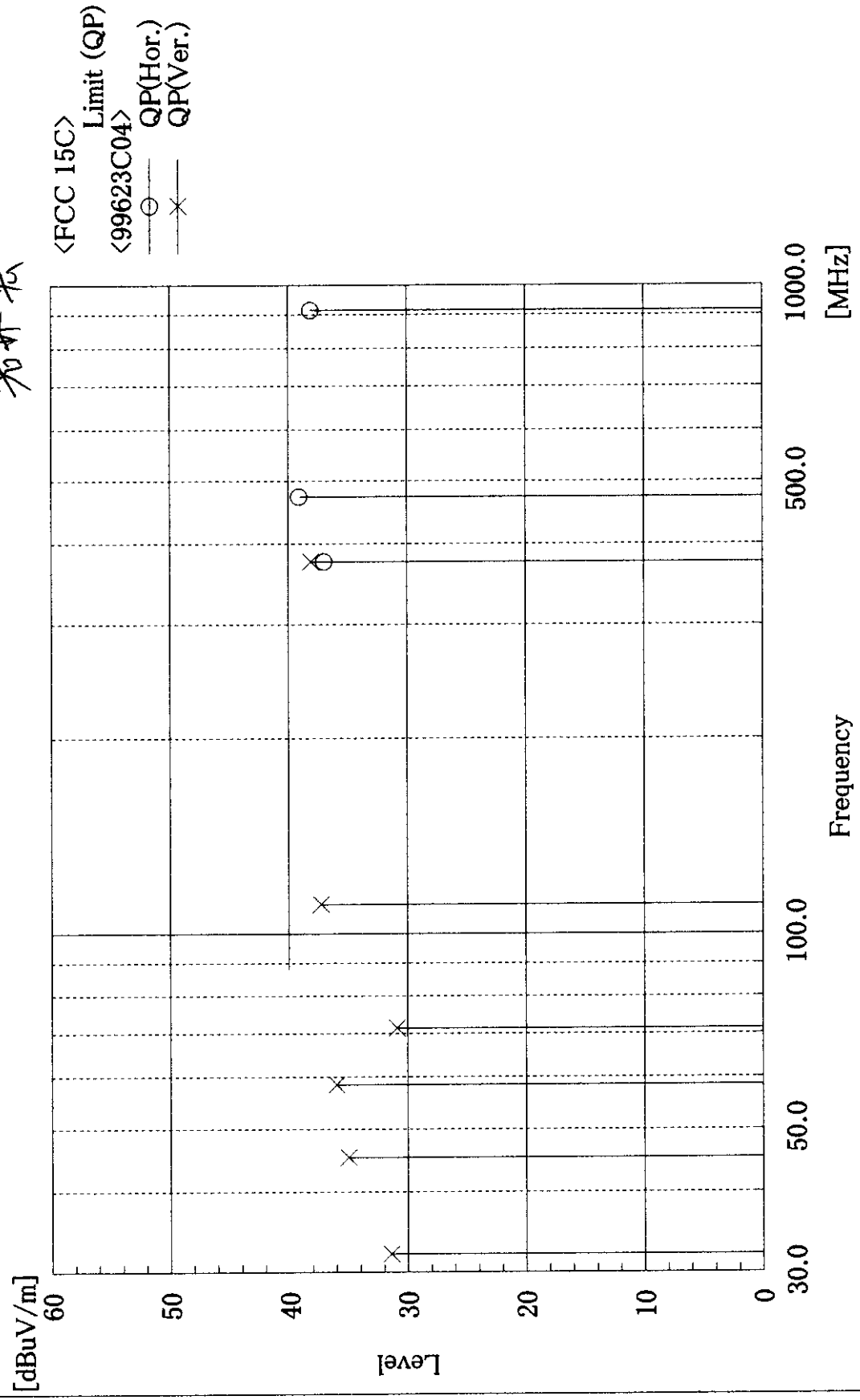
<<Radiated Emission>>

IPS Corporation
EMC Center

Model : KX-MCIPC
S/N : ES1001
Product Name : MicroCast
File No : 004
Power Source : AC120V / 60Hz

Standard : FCC Part15C
Temp / Humi : 24deg / 58 %
Test Mode : PC Mode
Remarks : 4ch, f=5.845GHz
Operator : H.WAKABAYASHI

若林 忠



Standard : FCC Part15C
Model : KX-MC1PC
S/N : ES1001
Product Name : MicroCast
File No : 007
Power Source : AC120V / 60Hz
Temp /Humi : 24deg / 58 %
Test Mode : Theater Mode
Remarks : 1ch, f=5.755GHz
Operator : H. WAKABAYASHI

芳野 光

Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dBuV]	c. f [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	64.030	50.5	-17.8	32.7	40.0	7.3
2	198.257	50.8	-13.5	37.3	43.5	6.2
3	914.519	36.7	2.8	39.5	46.0	6.5

--- Vertical Polarization (QP)---

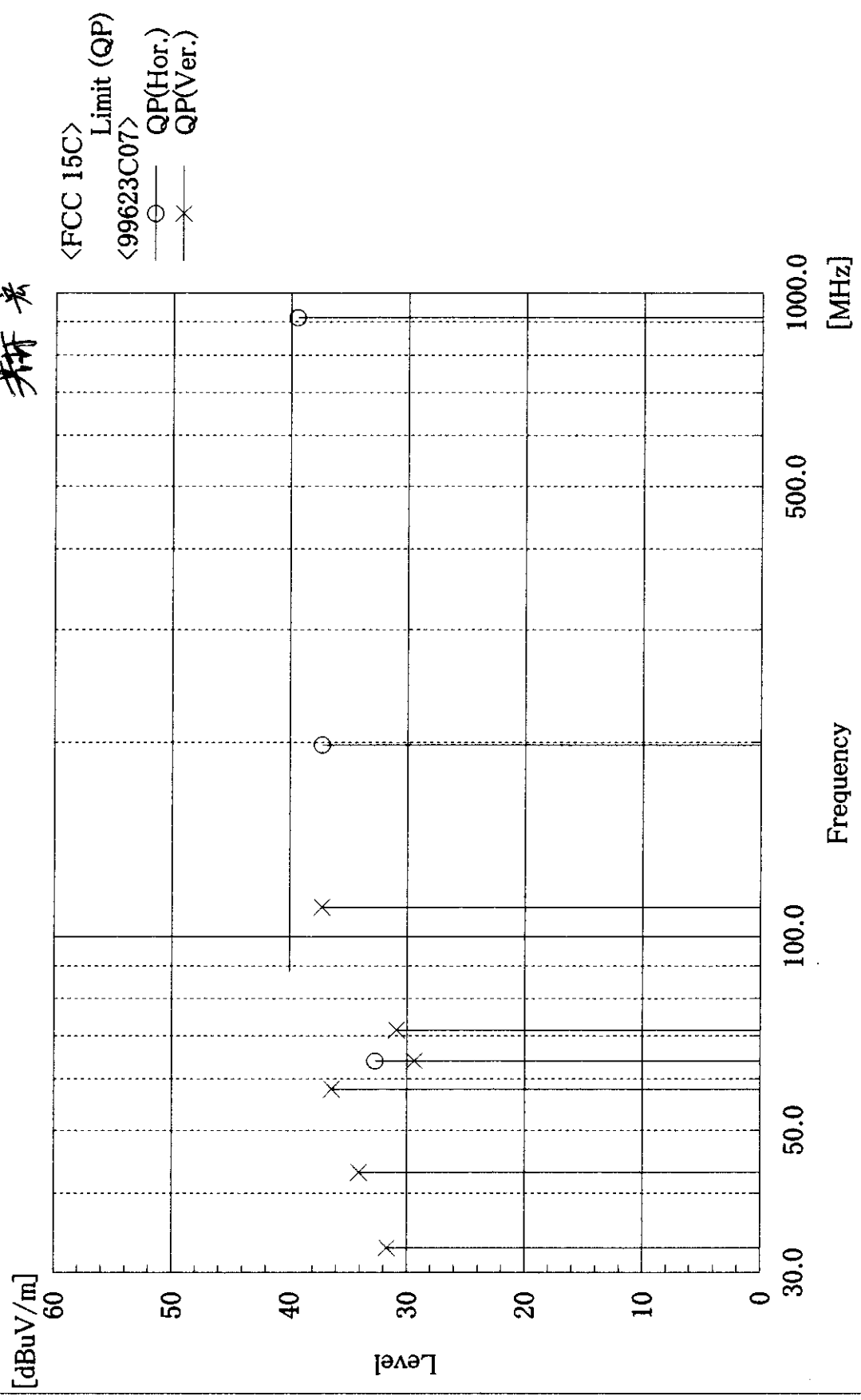
No.	Frequency [MHz]	Reading [dBuV]	c. f [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	32.798	36.8	-5.1	31.7	40.0	8.3
2	42.984	43.2	-9.1	34.1	40.0	5.9
3	57.885	51.5	-15.1	36.4	40.0	3.6
4	64.042	47.2	-17.8	29.4	40.0	10.6
5	71.345	52.3	-21.4	30.9	40.0	9.1
6	111.007	56.1	-18.8	37.3	43.5	6.2

<<Radiated Emission>>

Model : KX-MC1PC
S/N : ES1001
Product Name : MicroCast
File No : 007
Power Source : AC120V / 60Hz

Standard : FCC Part15C
Temp / Humi : 24deg / 58 %
Test Mode : Theater Mode
Remarks : 1ch, f=5.755GHz
Operator : H.WAKABAYASHI

林 光



Standard : FCC Part15C
Model : KX-MC1PC
S/N : ES1001
Product Name : MicroCast
File No : 009
Power Source : AC120V / 60Hz
Temp /Humi : 24deg / 58 %
Test Mode : Theater Mode
Remarks : 2ch, f=5.785GHz
Operator : H. WAKABAYASHI

芳井 浩

Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dBuV]	c. f [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	64.028	49.2	-17.8	31.4	40.0	8.6
2	198.257	51.8	-13.5	38.3	43.5	5.2
3	914.530	35.3	2.8	38.1	46.0	7.9

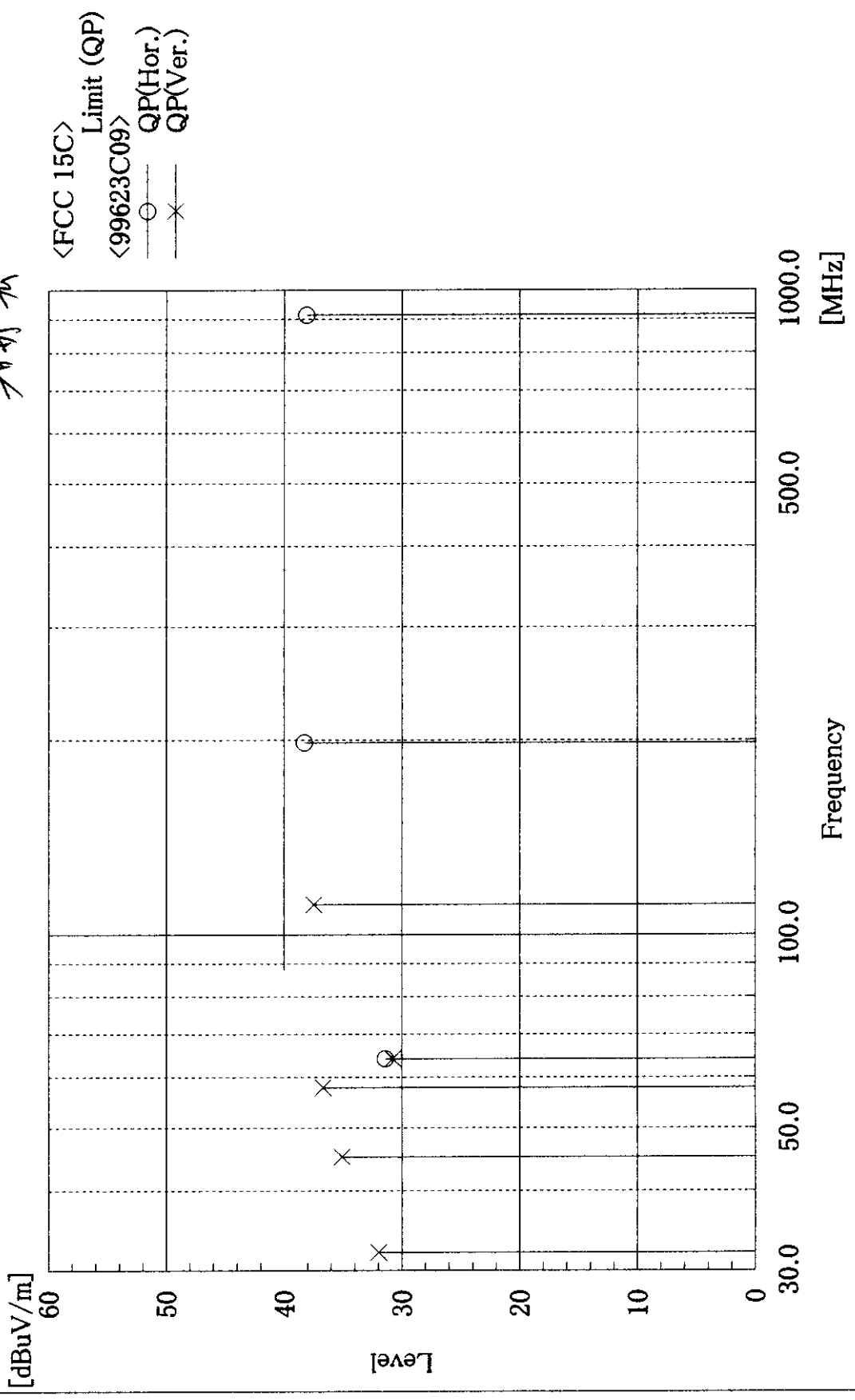
--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dBuV]	c. f [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	32.032	36.8	-4.8	32.0	40.0	8.0
2	45.087	45.0	-9.9	35.1	40.0	4.9
3	57.831	51.8	-15.1	36.7	40.0	3.3
4	64.035	48.6	-17.8	30.8	40.0	9.2
5	111.036	56.3	-18.8	37.5	43.5	6.0

Model : KX-MCIPC
S/N : ES1001
Product Name : MicroCast
File No : 009
Power Source : AC120V / 60Hz

Standard : FCC Part15C
Temp /Humi : 24deg / 58 %
Test Mode : Theater Mode
Remarks : 2ch, f=5.785GHz
Operator : H.WAKABAYASHI

若林 光



Standard : FCC Part15C
Model : KX-MC1PC
S/N : ES1001
Product Name : MicroCast
File No : 005
Power Source : AC120V / 60Hz
Temp /Humi : 24deg / 58 %
Test Mode : Theater Mode
Remarks : 4ch, f=5.845GHz
Operator : H. WAKABAYASHI

若林 宏

Final Result

--- Horizontal Polarization (QP) ---

No.	Frequency [MHz]	Reading [dBuV]	c. f [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	64.038	50.1	-17.8	32.3	40.0	7.7
2	374.998	45.1	-7.3	37.8	46.0	8.2
3	914.577	35.9	2.8	38.7	46.0	7.3

--- Vertical Polarization (QP) ---

No.	Frequency [MHz]	Reading [dBuV]	c. f [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	32.479	36.3	-5.0	31.3	40.0	8.7
2	45.186	45.3	-9.9	35.4	40.0	4.6
3	58.580	51.4	-15.4	36.0	40.0	4.0
4	64.035	48.4	-17.8	30.6	40.0	9.4
5	71.349	52.5	-21.4	31.1	40.0	8.9
6	111.033	56.2	-18.8	37.4	43.5	6.1

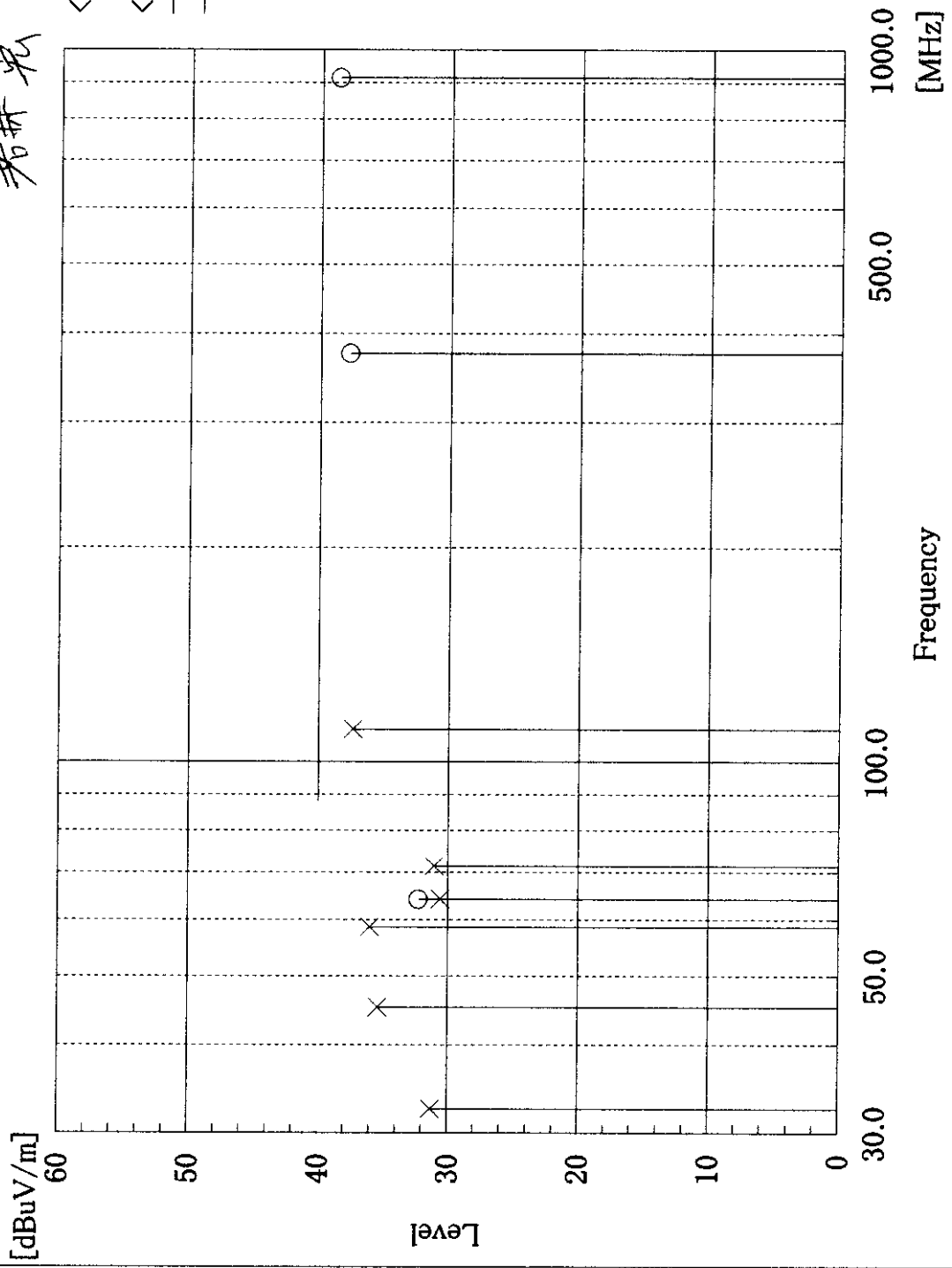
<<Radiated Emission>>

Model : KX-MCIPC
S/N : ES1001
Product Name : MicroCast
File No : 005
Power Source : AC120V / 60Hz

Standard : FCC Part15C
Temp / Humi : 24deg / 58 %
Test Mode : Theater Mode
Remarks : 4ch, f=5.845GHz
Operator : H.WAKABAYASHI

若井 光

<FCC 15C>
Limit (QP)
<99623C05>
—○— QP(Hor.)
—×— QP(Ver.)



*****<I P S Corporation>*****
<<< RADIATED EMISSION >>>

19 August, 1999 15:08
Page 1

Model : KX-MC1PC
Serial No. : ES1001
Standard : FCC Part15C
Condition File : C210Gtk
Condition :
Remarks : EUT NAME : MicroCast
: PC Mode , ch=1 , f=5.755GHz
: FILE No. : 010
AC Power : 120 V 60 Hz
Temperature : 25 deg.
Humidity : 57 %
Operator : T.YAMAGUCHI



----- Spectrum Selection -----

- Horizontal Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	1551.974	34.9	-1.5	33.4	54.0	20.6
2	1601.325	36.4	-1.0	35.4	54.0	18.6
3	1651.724	33.1	-0.4	32.7	54.0	21.3
4	3439.425	32.8	8.6	41.4	54.0	12.6
5	3476.175	34.1	8.7	42.8	54.0	11.2
6	4280.875	33.4	10.5	43.9	54.0	10.1
7	4333.375	33.2	10.6	43.8	54.0	10.2

- Vertical Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
8	1025.878	36.0	-1.5	34.5	54.0	19.5
9	1551.974	35.7	-1.5	34.2	54.0	19.8
10	1602.375	38.3	-1.0	37.3	54.0	16.7
11	1651.724	34.9	-0.4	34.5	54.0	19.5
12	3443.625	34.9	8.7	43.6	54.0	10.4
13	3500.324	35.2	8.8	44.0	54.0	10.0
14	4281.925	32.6	10.5	43.1	54.0	10.9

< I P S Corporation >

<<< RADIATED EMISSION >>>

Date/Time : 19 August, 1999 15:08

I P S EMC SITE

Model : KX-MC1PC

Standard : FCC Part15C

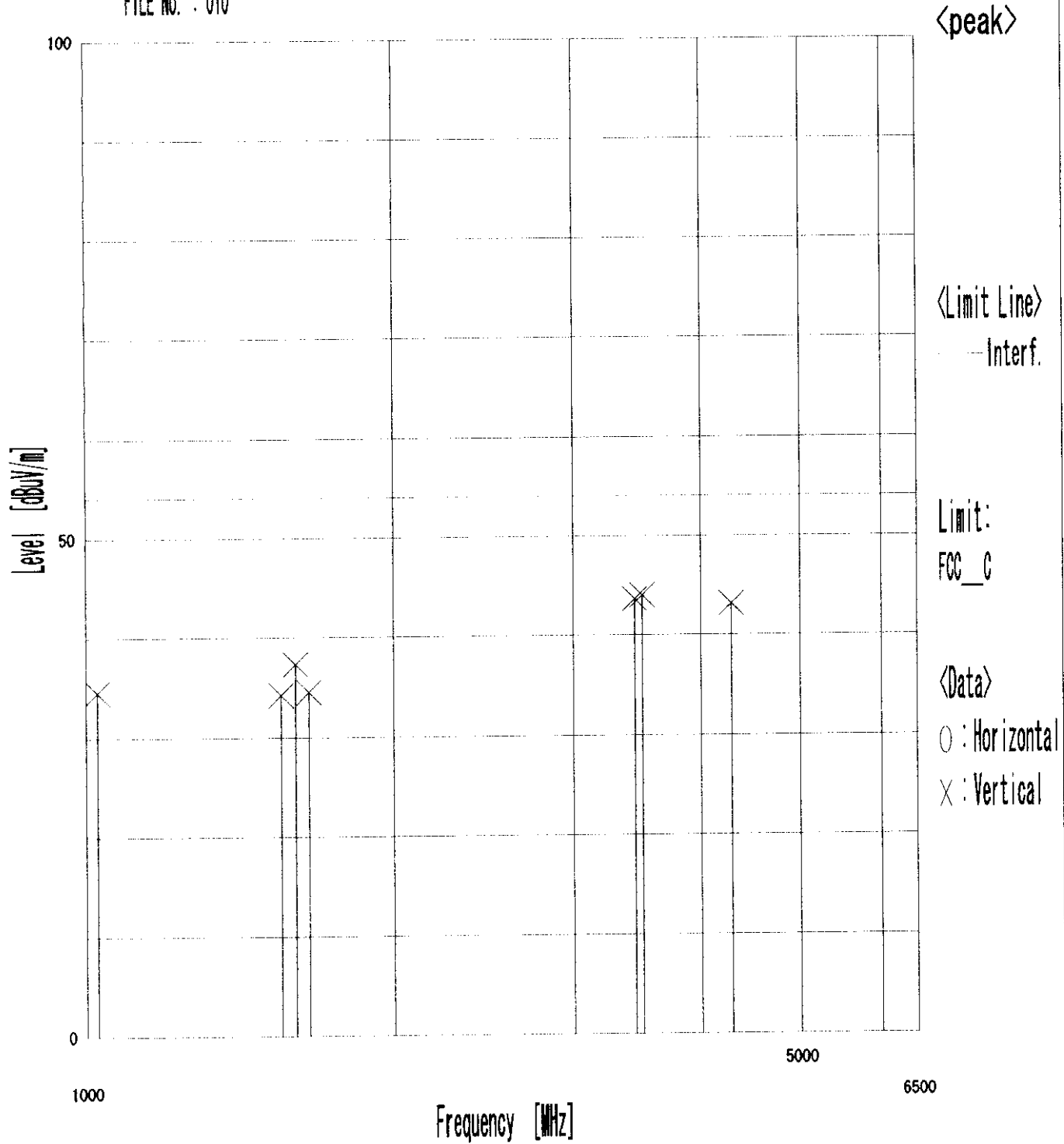
Serial No. : ES1001

Operator : T. YAMAGUCHI

Remarks : EUT NAME : MicroCast

PC Mode, ch=1, f=5.755GHz

FILE No. : 010



<peak>

<Limit Line>
Interf.

Limit:
FCC_C

<Data>
o : Horizontal
x : Vertical

Model : KX-MC1PC
Serial No. : ES1001
Standard : FCC Part15C
Condition File : C210Gtk
Condition :
Remarks : EUT NAME : MicroCast
: PC Mode , ch=2 , f=5.785GHz
: FILE No. : 011
AC Power : 120 V 60 Hz
Temperature : 25 deg.
Humidity : 57 %
Operator : T.YAMAGUCHI



----- Spectrum Selection -----

- Horizontal Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	1602.375	34.6	-1.0	33.6	54.0	20.4
2	3416.324	33.4	8.6	42.0	54.0	12.0
3	3434.175	33.5	8.6	42.1	54.0	11.9
4	3471.974	34.1	8.7	42.8	54.0	11.2
5	4321.824	33.1	10.6	43.7	54.0	10.3

- Vertical Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
6	1026.949	36.1	-1.5	34.6	54.0	19.4
7	1252.930	35.2	-2.9	32.3	54.0	21.7
8	1502.473	35.2	-1.9	33.3	54.0	20.7
9	1551.974	35.8	-1.5	34.3	54.0	19.7
10	1602.375	37.0	-1.0	36.0	54.0	18.0
11	1652.775	36.4	-0.4	36.0	54.0	18.0
12	1931.025	32.5	3.4	35.9	54.0	18.1
13	3416.324	32.9	8.6	41.5	54.0	12.5
14	3444.675	33.4	8.7	42.1	54.0	11.9
15	3490.875	35.6	8.8	44.4	54.0	9.6
16	4263.024	32.8	10.5	43.3	54.0	10.7

<I P S Corporation>

<<< RADIATED EMISSION >>>

Date/Time : 19 August, 1999 15:35

I P S ENG SITE

Model : KX-MC1PC

Standard : FCC Part15C

Serial No. : ES1001

Operator : T. YAMAGUCHI

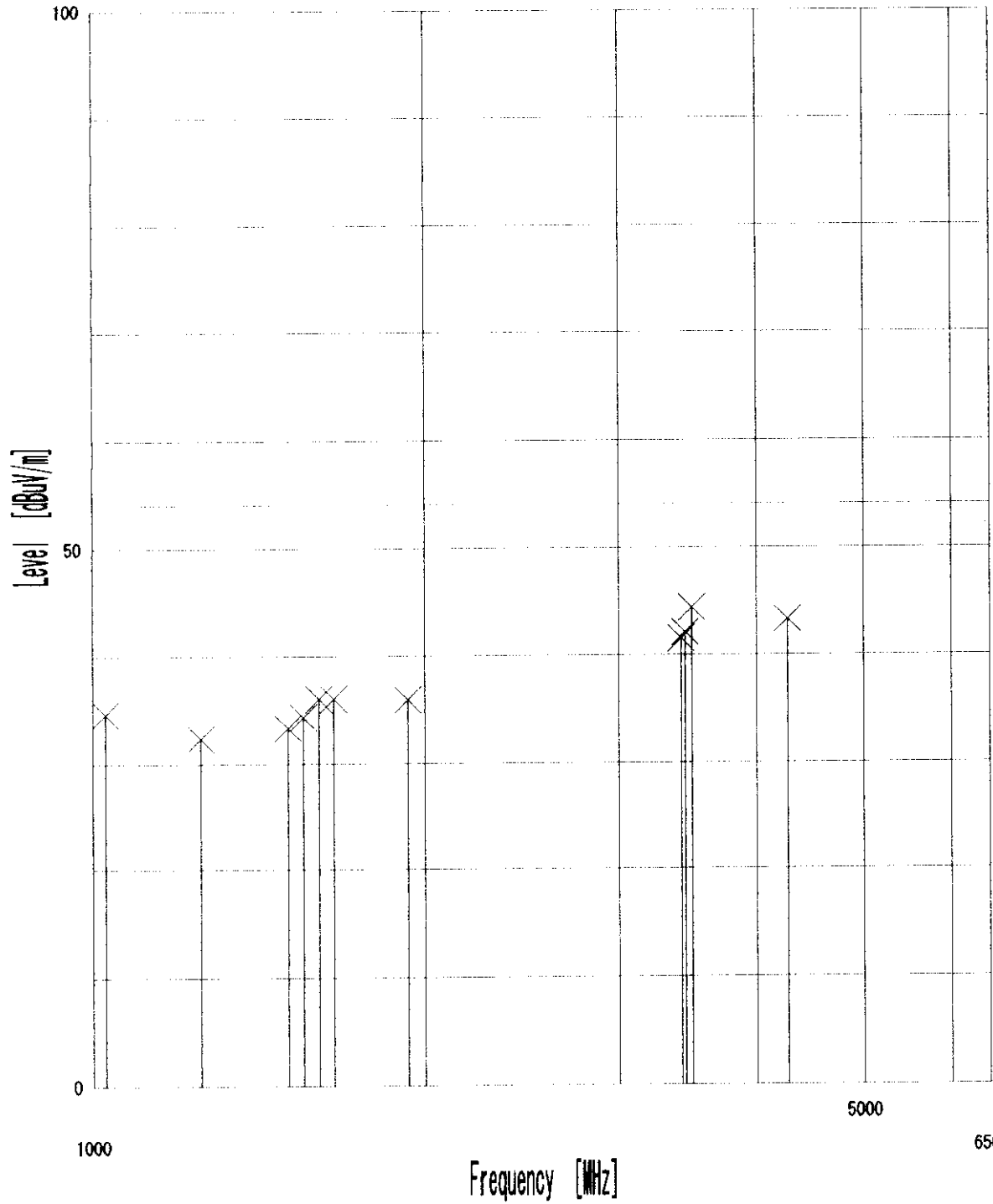
Remarks : EUT NAME : MicroCast

PC Mode , ch=2 , f=5.785GHz

FILE No. : 011

T. Yamaguchi

<peak>



<Limit Line>
Interf.

Limit:
FCC_C

<Data>
O : Horizontal
X : Vertical

*****<I P S Corporation>*****

<<< RADIATED EMISSION >>>

19 August, 1999 13:43

Page 1

Model : KX-MC1PC
 Serial No. : ES1001
 Standard : FCC Part15C
 Condition File : C210Gtk
 Condition :
 Remarks : EUT NAME : MicroCast
 : PC Mode , ch=4 , f=5.845GHz
 : FILE No. : 007
 AC Power : 120 V 60 Hz
 Temperature : 26 deg.
 Humidity : 58 %
 Operator : T.YAMAGUCHI



----- Spectrum Selection -----

- Horizontal Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	1551.974	35.2	-1.5	33.7	54.0	20.3
2	1601.325	36.4	-1.0	35.4	54.0	18.6
3	1652.775	33.9	-0.4	33.5	54.0	20.5
4	1950.974	33.6	3.7	37.3	54.0	16.7
5	3452.025	35.7	8.7	44.4	54.0	9.6
6	3499.275	36.4	8.8	45.2	54.0	8.8
7	4286.125	33.6	10.5	44.1	54.0	9.9

- Vertical Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
8	1153.327	35.2	-2.4	32.8	54.0	21.2
9	1252.930	35.8	-2.9	32.9	54.0	21.1
10	1551.974	36.1	-1.5	34.6	54.0	19.4
11	1601.849	38.1	-1.0	37.1	54.0	16.9
12	1652.775	36.1	-0.4	35.7	54.0	18.3
13	1950.974	33.2	3.7	36.9	54.0	17.1
14	3466.724	34.9	8.7	43.6	54.0	10.4
15	3487.724	36.8	8.8	45.6	54.0	8.4

< I P S Corporation >

<< RADIATED EMISSION >>

Date/Time : 19 August, 1999 13:43

I P S EMC SITE

Model : KX-MC1PC

Standard : FCC Part15C

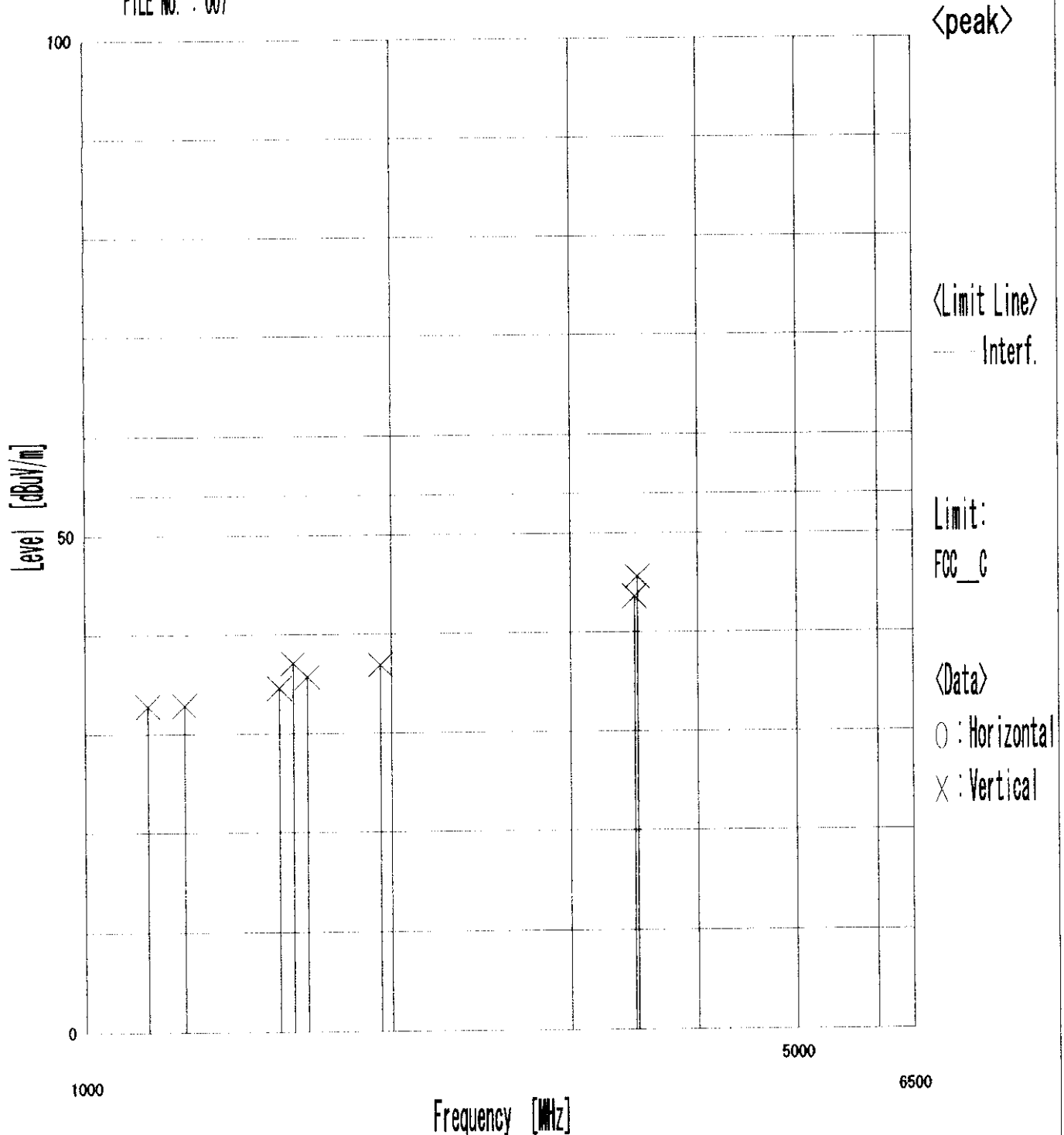
Serial No. : ES1001

Operator : T. YAMAGUCHI

Remarks : EUT NAME : MicroCast

PC Mode , ch=4 , f=5.845GHz

FILE No. : 007



< peak >

< Limit Line >
Interf.

Limit:
FCC_C

< Data >
O : Horizontal
X : Vertical

Model : KX-MC1PC
Serial No. : ES1001
Standard : FCC Part15C
Condition File : C210Gtk
Condition :
Remarks : EUT NAME : MicroCast
: Theater Mode , ch=1 , f=5.755GHz
: FILE No. : 009
AC Power : 120 V 60 Hz
Temperature : 25 deg.
Humidity : 57 %
Operator : T.YAMAGUCHI



----- Spectrum Selection -----

- Horizontal Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	1601.325	34.7	-1.0	33.7	54.0	20.3
2	1651.724	34.5	-0.4	34.1	54.0	19.9
3	1950.974	33.6	3.7	37.3	54.0	16.7
4	3453.074	33.3	8.7	42.0	54.0	12.0
5	3481.425	36.2	8.7	44.9	54.0	9.1
6	4280.875	33.7	10.5	44.2	54.0	9.8

- Vertical Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
7	1025.878	35.1	-1.5	33.6	54.0	20.4
8	1252.930	36.0	-2.9	33.1	54.0	20.9
9	1498.189	35.0	-1.9	33.1	54.0	20.9
10	1551.974	35.7	-1.5	34.2	54.0	19.8
11	1601.325	39.2	-1.0	38.2	54.0	15.8
12	1651.724	35.0	-0.4	34.6	54.0	19.4
13	1950.974	33.4	3.7	37.1	54.0	16.9
14	3411.074	33.2	8.6	41.8	54.0	12.2
15	3471.974	35.9	8.7	44.6	54.0	9.4
16	3500.324	34.3	8.8	43.1	54.0	10.9
17	4269.324	32.9	10.5	43.4	54.0	10.6
18	4339.675	32.8	10.6	43.4	54.0	10.6

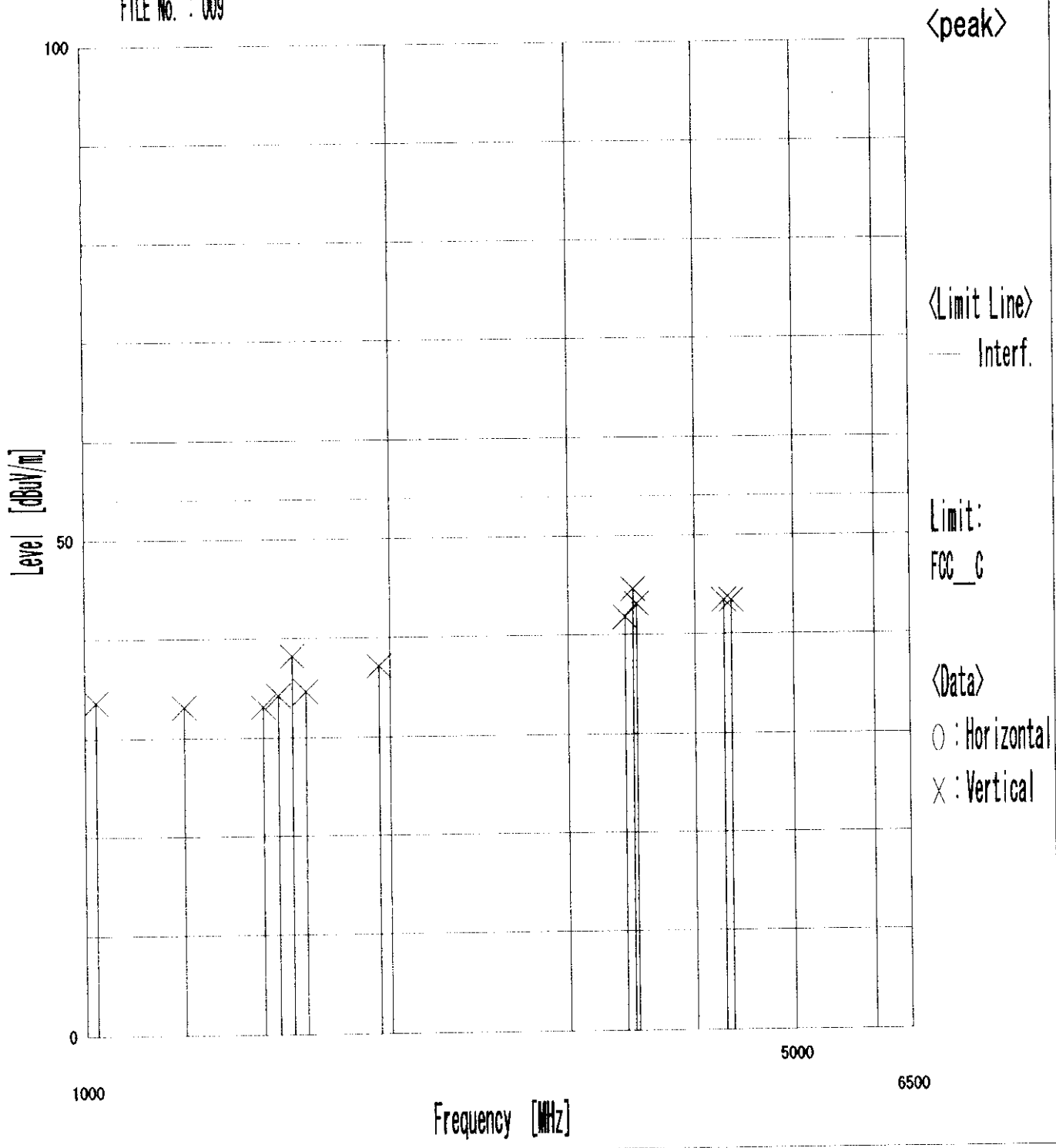
<I P S Corporation>
I P S EMC SITE

<<< RADIATED EMISSION >>>

Date/Time : 19 August, 1999 14:42

Model : KX-MC1PC
Serial No. : ES1001
Remarks : EUT NAME : MicroCast
Theater Mode , ch=1 , f=5.755GHz
FILE No. : 009

Standard : FCC Part15C
Operator : T. YAMAGUCHI



*****<I P S Corporation>*****
<<< RADIATED EMISSION >>>

19 August, 1999 16:01
Page 1

Model : KX-MC1PC
Serial No. : ES1001
Standard : FCC Part15C
Condition File : C210Gtk
Condition :
Remarks : EUT NAME : MicroCast
: Theater Mode , ch=2 , f=5.785GHz
: FILE No. : 012
AC Power : 120 V 60 Hz
Temperature : 24 deg.
Humidity : 58 %
Operator : F.YAMAGUCHI



----- Spectrum Selection -----

- Horizontal Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	1601.325	34.8	-1.0	33.8	54.0	20.2
2	1651.724	33.9	-0.4	33.5	54.0	20.5
3	1931.025	32.5	3.4	35.9	54.0	18.1
4	3429.974	33.0	8.6	41.6	54.0	12.4
5	3462.525	34.7	8.7	43.4	54.0	10.6
6	4279.824	32.7	10.5	43.2	54.0	10.8

- Vertical Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
7	1025.878	36.5	-1.5	35.0	54.0	19.0
8	1550.924	35.0	-1.5	33.5	54.0	20.5
9	1601.325	37.9	-1.0	36.9	54.0	17.1
10	1651.724	35.1	-0.4	34.7	54.0	19.3
11	1931.025	32.8	3.4	36.2	54.0	17.8
12	3439.425	32.9	8.6	41.5	54.0	12.5
13	3471.974	34.6	8.7	43.3	54.0	10.7
14	3485.625	34.5	8.8	43.3	54.0	10.7
15	4270.375	32.4	10.5	42.9	54.0	11.1

< I P S Corporation >

<<< RADIATED EMISSION >>>

Date/Time : 19 August, 1999 16:01

I P S EMC SITE

Model : KX-MC1PC

Standard : FCC Part15C

Serial No. : ES1001

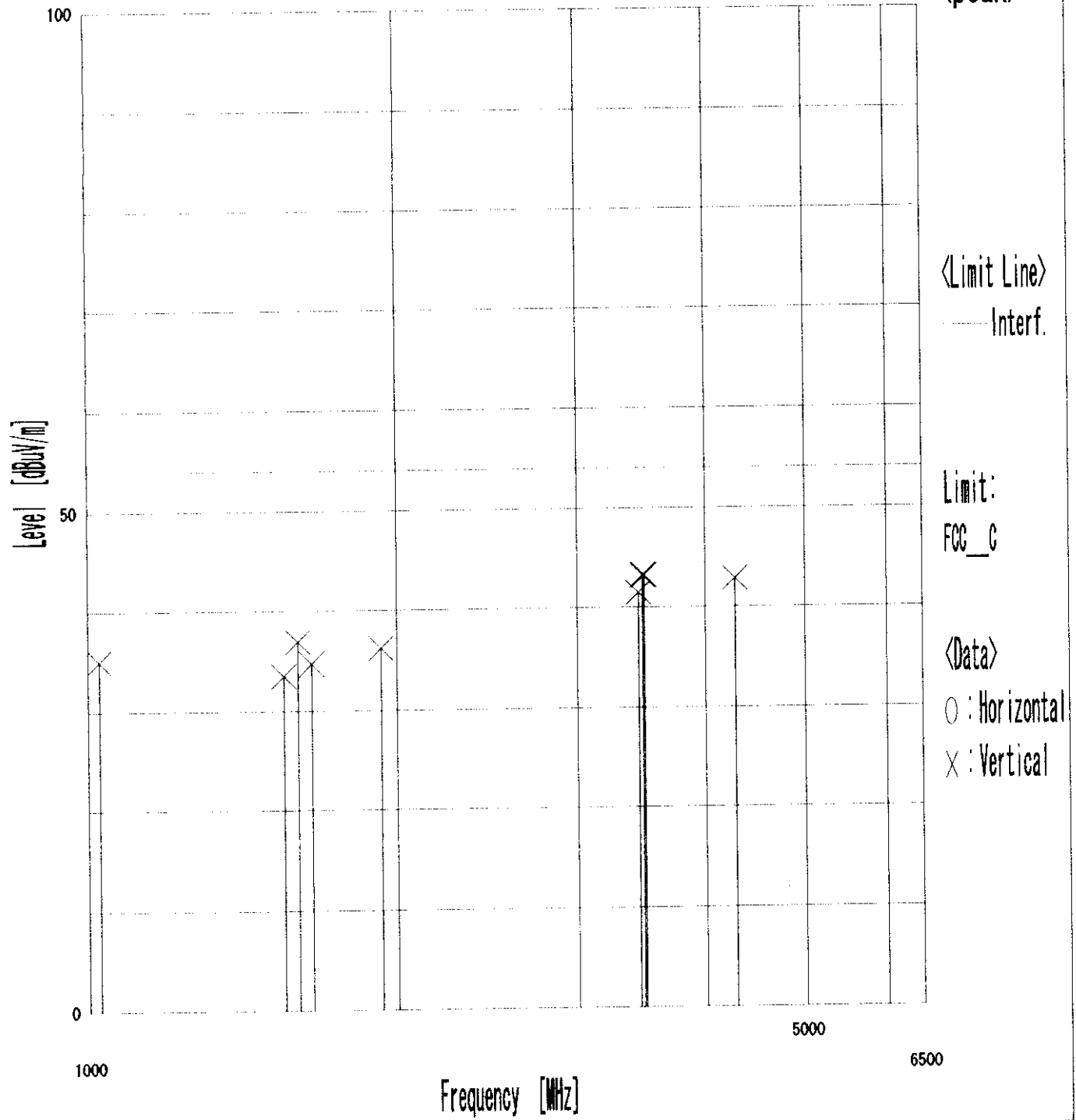
Operator : T. YAMAGUCHI

Remarks : EUT NAME : MicroCast

Theater Mode , ch=2 , f=5.785GHz

FILE No. : 012

<peak>



Model : KX-MC1PC
Serial No. : ES1001
Standard : FCC Part15C
Condition File : C210Gtk
Condition :
Remarks : EUT NAME : MicroCast
: Theater Mode , ch=4 , f=5.845GHz
: FILE No. : 008
AC Power : 120 V 60 Hz
Temperature : 26 deg.
Humidity : 58 %
Operator : T.YAMAGUCHI



----- Spectrum Selection -----

- Horizontal Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	1601.325	34.7	-1.0	33.7	54.0	20.3
2	1651.724	34.5	-0.4	34.1	54.0	19.9
3	1950.974	33.6	3.7	37.3	54.0	16.7
4	3453.074	33.3	8.7	42.0	54.0	12.0
5	3481.425	36.2	8.7	44.9	54.0	9.1
6	4280.875	33.7	10.5	44.2	54.0	9.8

- Vertical Polarization -

No.	Frequency [MHz]	Reading [dBuV]	c.f. [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]
7	1025.878	35.1	-1.5	33.6	54.0	20.4
8	1252.930	36.0	-2.9	33.1	54.0	20.9
9	1498.189	35.0	-1.9	33.1	54.0	20.9
10	1551.974	35.7	-1.5	34.2	54.0	19.8
11	1601.325	39.2	-1.0	38.2	54.0	15.8
12	1651.724	35.0	-0.4	34.6	54.0	19.4
13	1950.974	33.4	3.7	37.1	54.0	16.9
14	3411.074	33.2	8.6	41.8	54.0	12.2
15	3471.974	35.9	8.7	44.6	54.0	9.4
16	3500.324	34.3	8.8	43.1	54.0	10.9
17	4269.324	32.9	10.5	43.4	54.0	10.6
18	4339.675	32.8	10.6	43.4	54.0	10.6

<I P S Corporation>

<<< RADIATED EMISSION >>>

Date/Time : 19 August, 1999 14:13

I P S ENG SITE

Model : KX-MC1PC

Standard : FCC Part15C

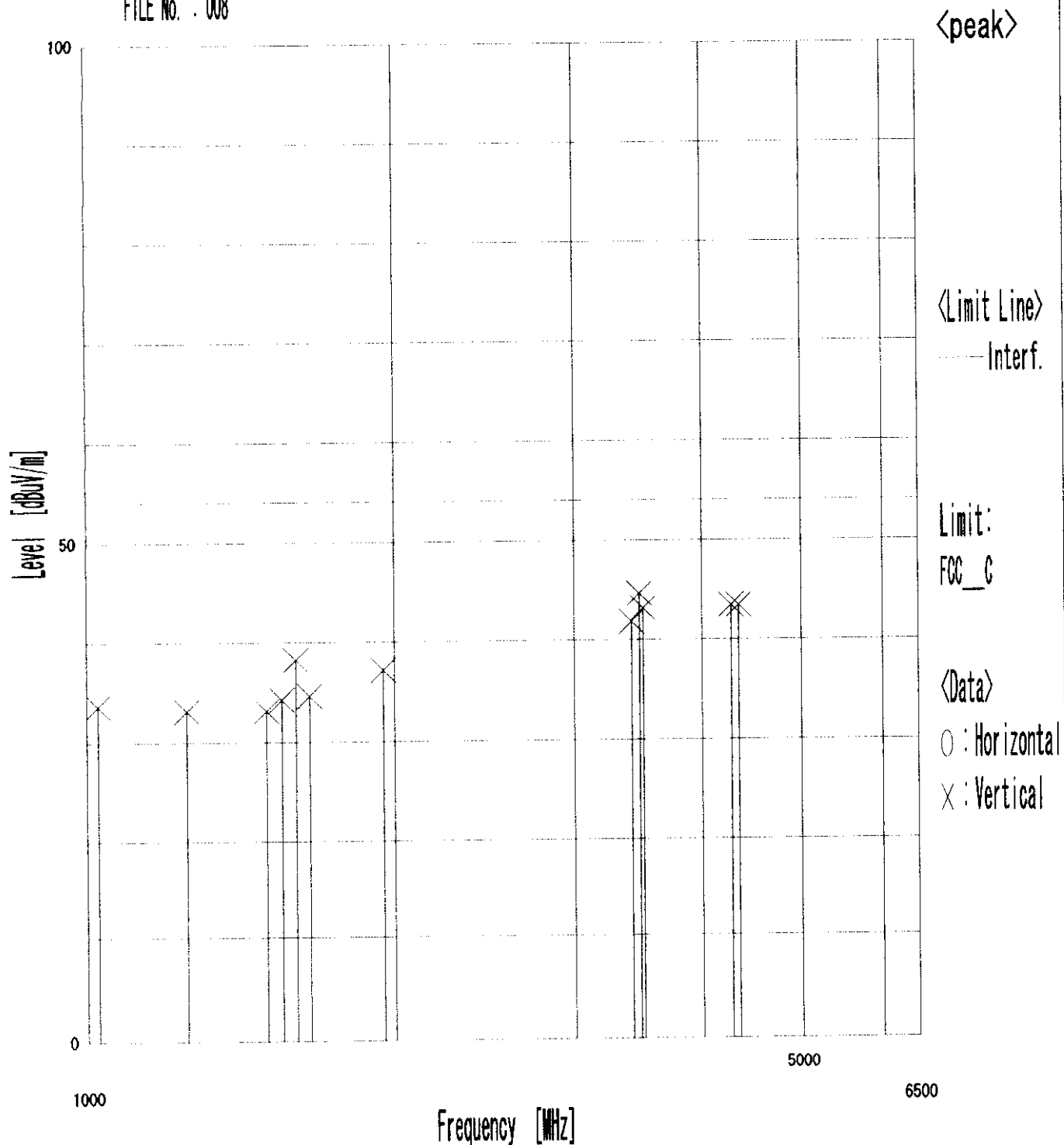
Serial No. : ES1001

Operator : T.YAMAGUCHI

Remarks : EUT NAME : MicroCast

Theater Mode , ch=4 , f=5.845GHz

FILE No. : 008



***** IPS Corporation *****
<<Magnetic Field Emission>>

20 August, 1999 20:36
99623M04. dat

Standard : FCC Part15C
Model : KX-MC1PC
SN : ES1001
Product Name : MicroCast
File No : 004
Power Source : AC 120V / 60Hz
Temp/Humi : 24deg / 52%
Test Mode : PC Mode
Remarks : CH=1, f=5.755GHz
Operator : H. WAKABAYASHI

表并表

Final Result

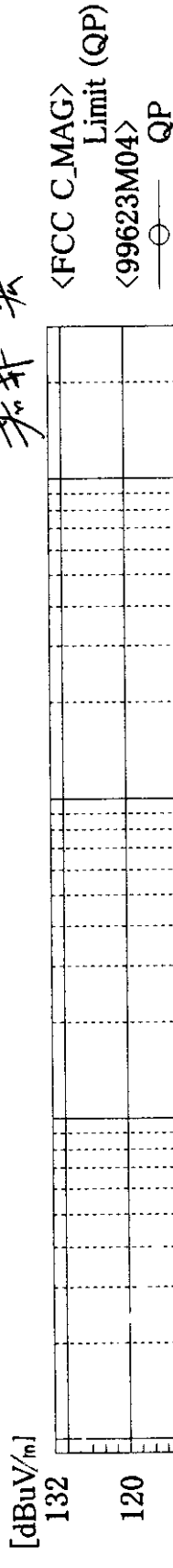
No.	Frequency	Reading	c. f	Result	Limit	Margin
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]
1	0.038	69.0	20.9	89.9	116.0	26.1
2	0.151	53.8	21.0	74.8	104.0	29.2
3	0.525	38.2	20.6	58.8	73.2	14.4
4	0.563	39.4	20.6	60.0	72.6	12.6
5	0.601	35.9	20.6	56.5	72.0	15.5
6	1.167	21.3	20.5	41.8	66.2	24.4

IFS Corporation
EMC Center

Model : KX-MC1PC
S/N : ES1001
Product Name : MicroCast
File No : 004
Power Source : AC 120V / 60Hz

Standard : FCC Part15C
Temp/Humi : 24deg / 52%
Test Mode : PC Mode
Remarks : CH=1, f=5.755GHz
Operator : H. WAKABAYASHI

赤井 宏



20 August, 1999 21:11
99623M06. dat

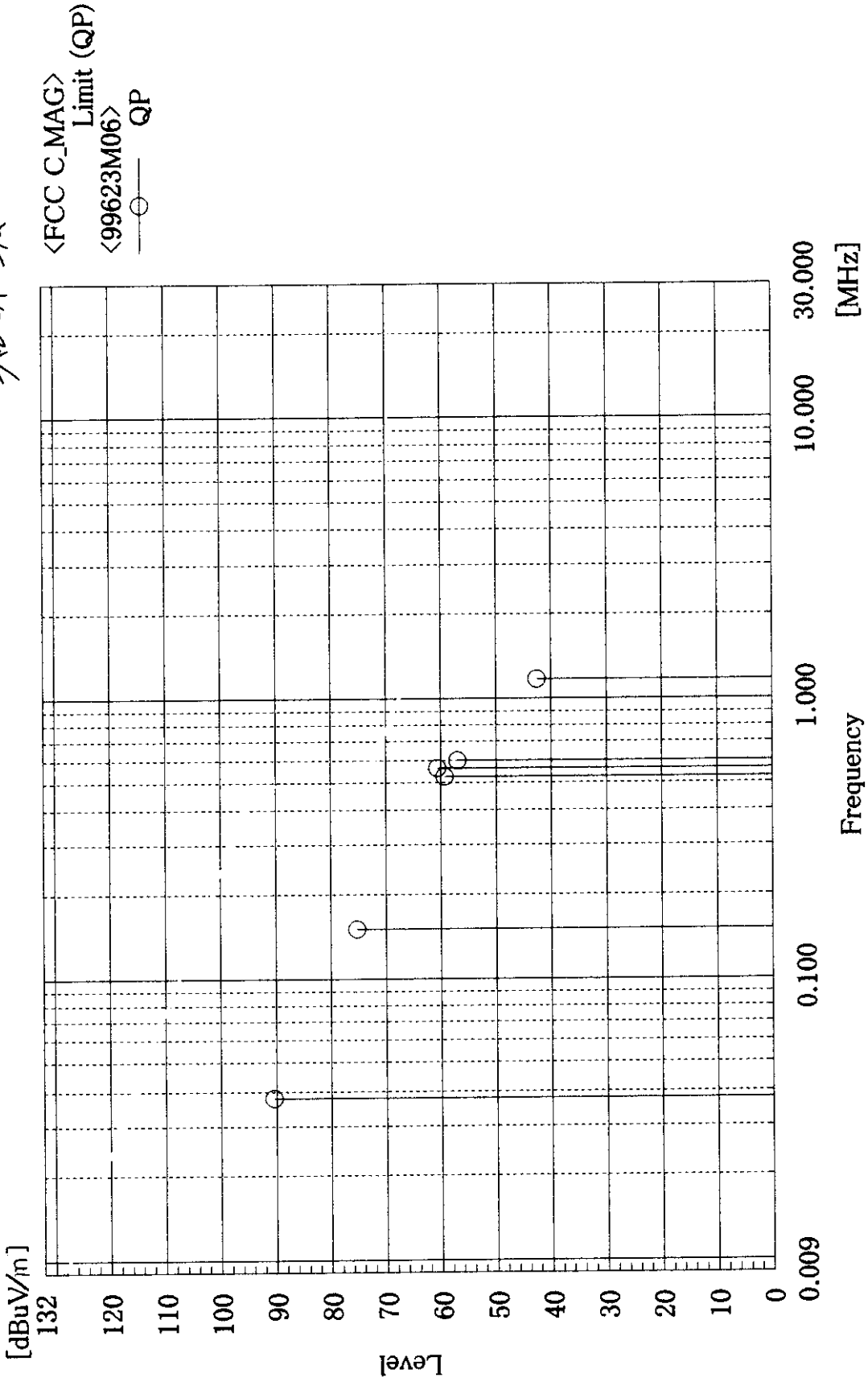
Standard : FCC Part15C
Model : KX-MC1PC
Model No : ES1001
Product Name : MicroCast
Model No : 006
Power Source : AC 120V / 60Hz
Temp/Humi : 24deg / 52%
Test Mode : PC Mode
Remarks : CH=2, f=5.785GHz
Operator : H. WAKABAYASHI *若林 宏*

Final Result

No.	Frequency	Reading	c. f	Result	Limit	Margin
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]
1	0.038	69.5	20.9	90.4	116.0	25.6
2	0.151	54.3	21.0	75.3	104.0	28.7
3	0.526	38.7	20.6	59.3	73.2	13.9
4	0.564	40.0	20.6	60.6	72.6	12.0
5	0.601	36.4	20.6	57.0	72.0	15.0
6	1.166	22.1	20.5	42.6	66.2	23.6

Model : KX-MCIPC
 S/N : ES1001
 Product Name : MicroCast
 File No : 006
 Power Source : AC 120V / 60Hz

Standard : FCC Part15C
 Temp/Humi : 24deg / 52%
 Test Mode : PC Mode
 Remarks : CH=2, f=5.785GHz
 Operator : H. WAKABAYASHI
 若井 宏



***** IPS Corporation *****
<<Magnetic Field Emission>>

20 August, 1999 21:44
99623M08. dat

Standard : FCC Part15C
Model : KX-MC1PC
/N : ES1001
Product Name : MicroCast
File No : 008
Power Source : AC 120V / 60Hz
Temp/Humi : 24deg / 52%
Test Mode : PC Mode
Remarks : CH=4, f=5.845GHz
Operator : H. WAKABAYASHI

Handwritten signature

Final Result

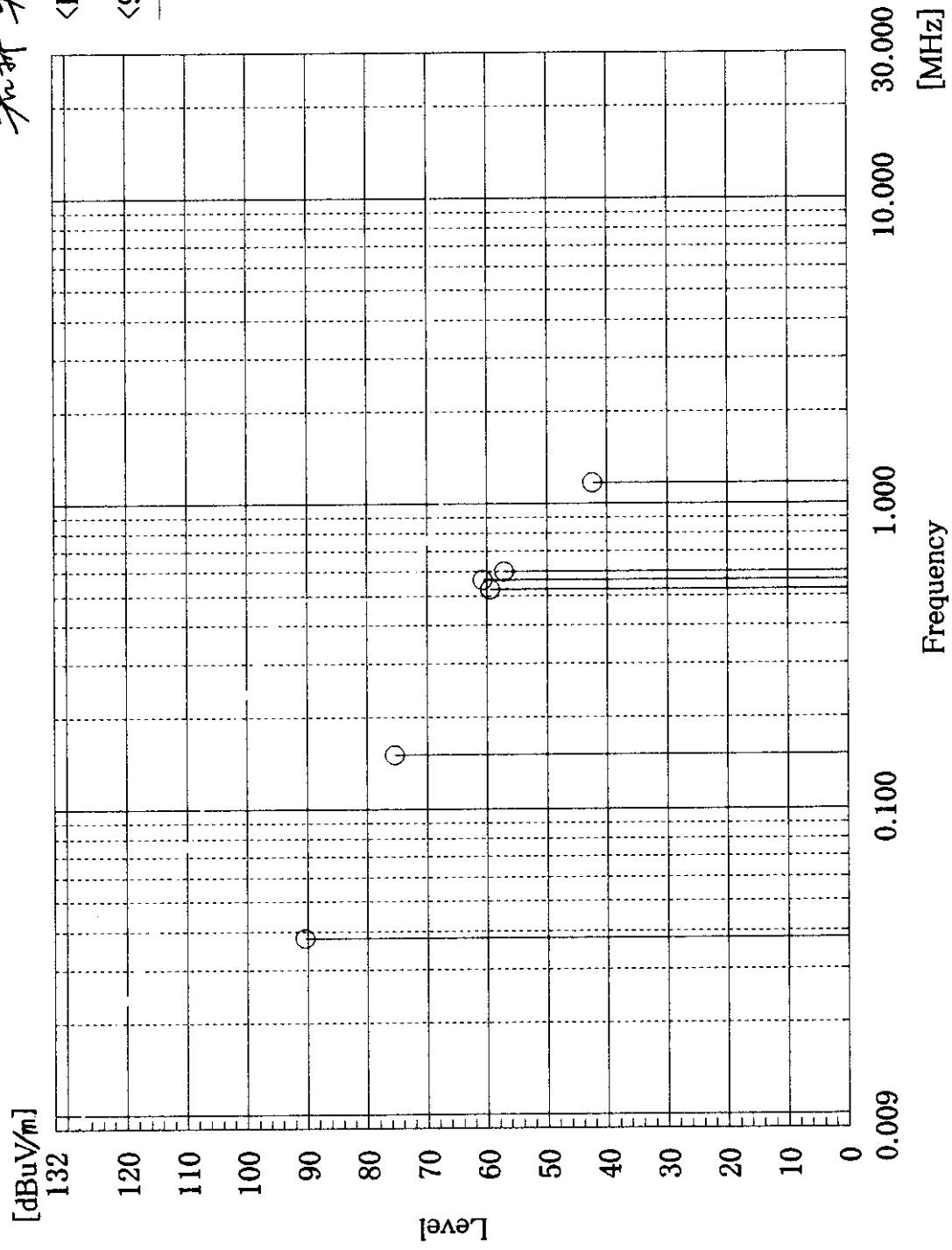
No.	Frequency	Reading	c. f	Result	Limit	Margin
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]
1	0.038	69.5	20.9	90.4	116.0	25.6
2	0.151	54.4	21.0	75.4	104.0	28.6
3	0.526	38.9	20.6	59.5	73.2	13.7
4	0.563	40.1	20.6	60.7	72.6	11.9
5	0.601	36.5	20.6	57.1	72.0	14.9
6	1.165	21.9	20.5	42.4	66.2	23.8

Model : KX-MCIPC
S/N : ES1001
Product Name : MicroCast
File No : 008
Power Source : AC 120V / 60Hz

Standard : FCC Part15C
Temp/Humi : 24deg / 52%
Test Mode : PC Mode
Remarks : CH=4, f=5.845GHz
Operator : H. WAKABAYASHI

花井 宏

<FCC C_MAG>
<99623M08> QP
Limit (QP)



***** IPS Corporation *****
<<Magnetic Field Emission>>

20 August, 1999 20:51
99623M05. dat

Standard : FCC Part15C
Model : KX-MC1PC
V/N : ES1001
Product Name : MicroCast
File No : 005
Power Source : AC 120V / 60Hz
Temp/Humi : 24deg / 52%
Test Mode : Theater Mode
Remarks : CH=1, f=5.755GHz
Operator : H. WAKABAYASHI

赤林 浩

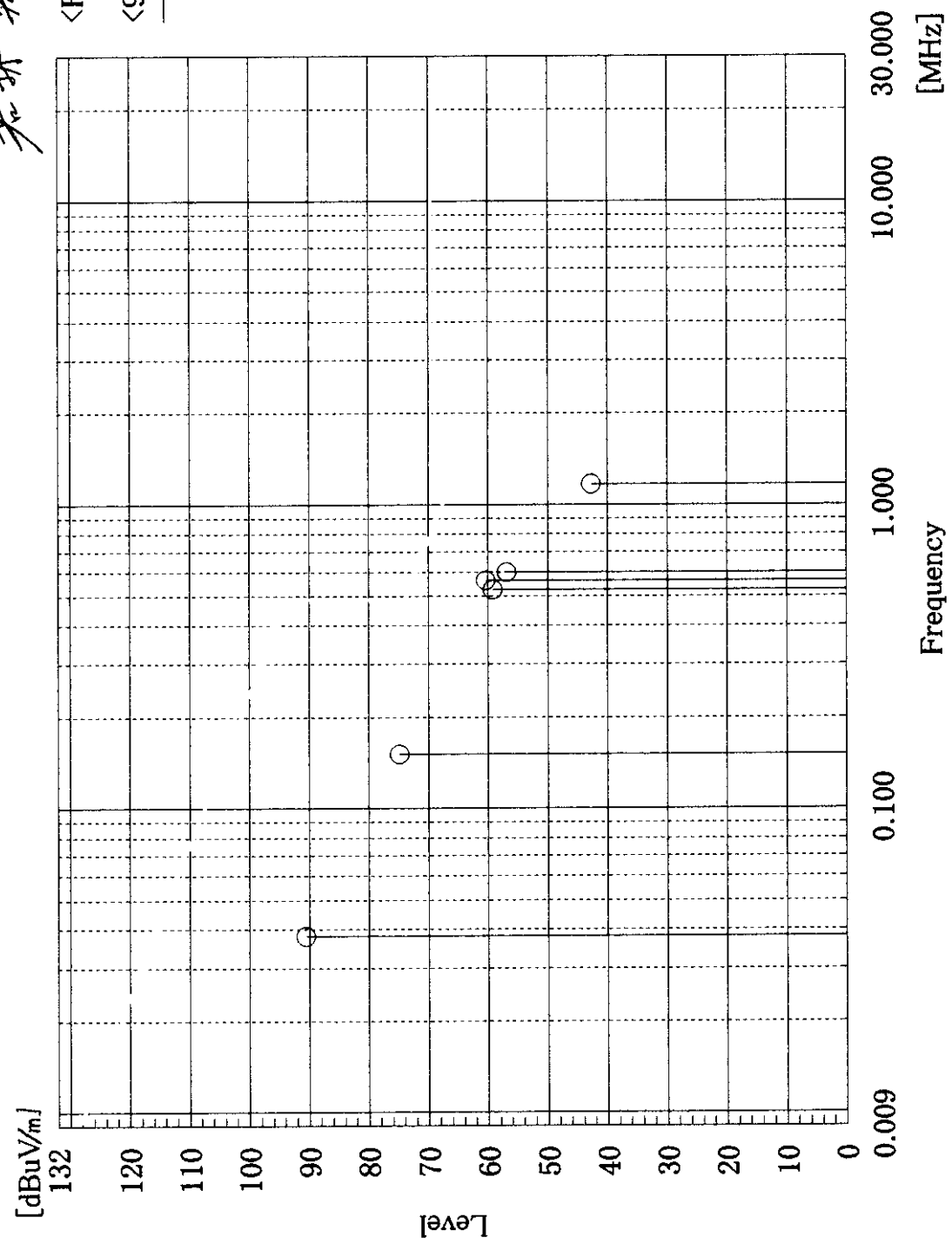
Final Result

No.	Frequency	Reading	c. f	Result	Limit	Margin
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]
1	0.038	69.7	20.9	90.6	116.0	25.4
2	0.151	53.9	21.0	74.9	104.0	29.1
3	0.526	38.6	20.6	59.2	73.2	14.0
4	0.563	39.8	20.6	60.4	72.6	12.2
5	0.601	36.3	20.6	56.9	72.0	15.1
6	1.165	22.2	20.5	42.7	66.2	23.5

Model : KX-MCIPC
 S/N : ES1001
 Product Name : MicroCast
 File No : 005
 Power Source : AC 120V / 60Hz

Standard : FCC Part15C
 Temp/Humi : 24deg / 52%
 Test Mode : Theater Mode
 Remarks : CH=1, f=5.755GHz
 Operator : H. WAKABAYASHI
 若林 宏

<FCC C_MAG>
 Limit (QP)
 <99623M05>
 ○ — QP



***** IPS Corporation *****
<<Magnetic Field Emission>>

20 August, 1999 21:28
99623M07. dat

Standard : FCC Part15C
Model : KX-MC1PC
Standard : ES1001
Product Name : MicroCast
Model No : 007
Power Source : AC 120V / 60Hz
Temp/Humi : 24deg / 52%
Test Mode : Theater Mode
Remarks : CH=2, f=5.785GHz
Operator : H. WAKABAYASHI

Handwritten signature

Final Result

No.	Frequency	Reading	c. f	Result	Limit	Margin
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]
1	0.038	69.3	20.9	90.2	116.0	25.8
2	0.151	54.4	21.0	75.4	104.0	28.6
3	0.525	38.6	20.6	59.2	73.2	14.0
4	0.563	39.7	20.6	60.3	72.6	12.3
5	0.601	36.6	20.6	57.2	72.0	14.8
6	1.166	22.3	20.5	42.8	66.2	23.4

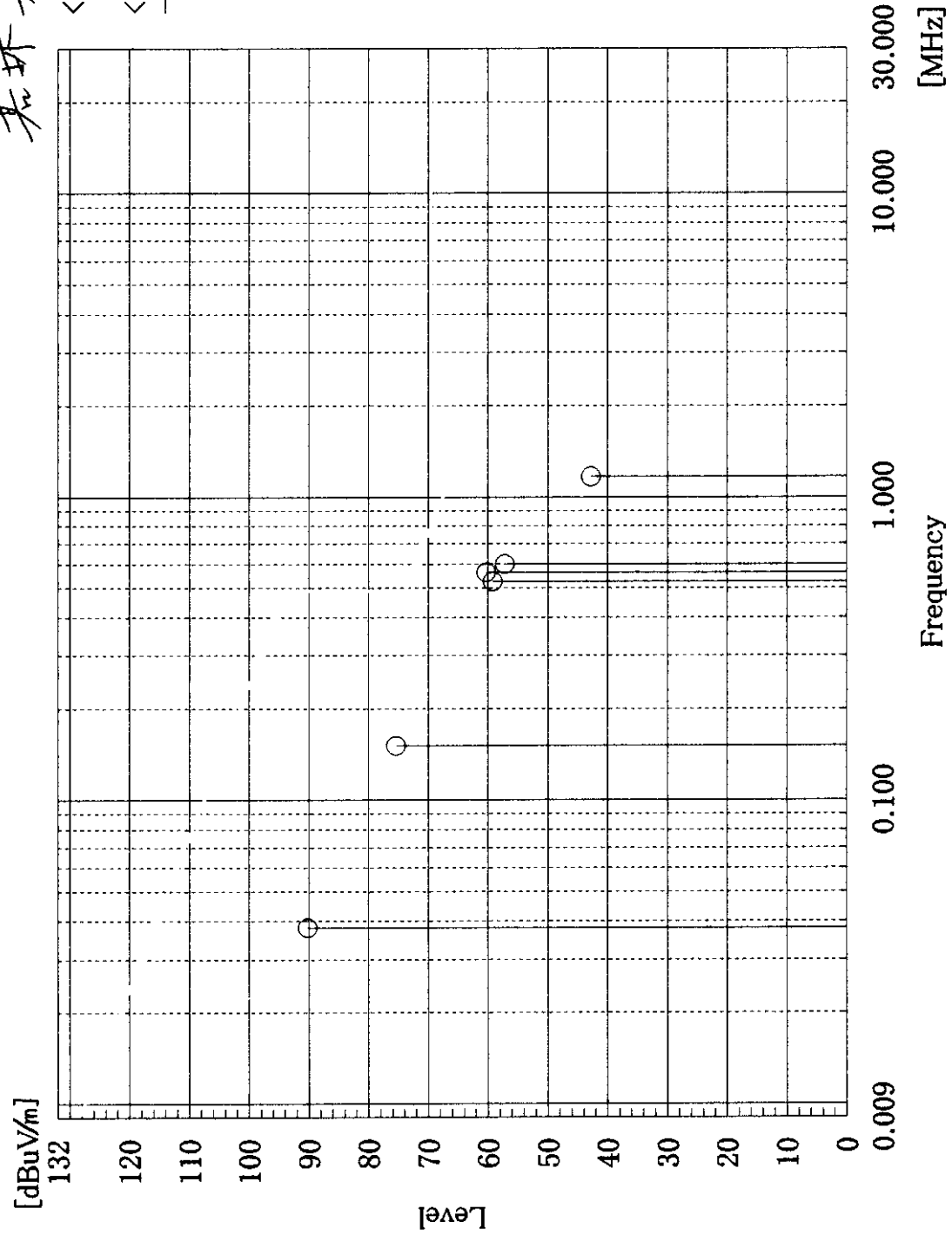
EMC Center

Model : KX-MCIPC
 S/N : ES1001
 Product Name : MicroCast
 File No : 007
 Power Source : AC 120V / 60Hz

Standard : FCC Part15C
 Temp/Humi : 24deg / 52%
 Test Mode : Theater Mode
 Remarks : CH=2, f=5.785GHz
 Operator : H. WAKABAYASHI

若林 宏

<FCC C_MAG>
 Limit (QP)
 <99623M07>
 ○ — QP



20 August, 1999 22:01
99623M09. dat

Standard : FCC Part15C
Model : KX-MC1PC
Model No : ES1001
Product Name : MicroCast
Model No : 009
Power Source : AC 120V / 60Hz
Temp/Humi : 24deg / 52%
Test Mode : Theater Mode
Remarks : CH=4, f=5.845GHz
Operator : H. WAKABAYASHI

若林 浩

Final Result

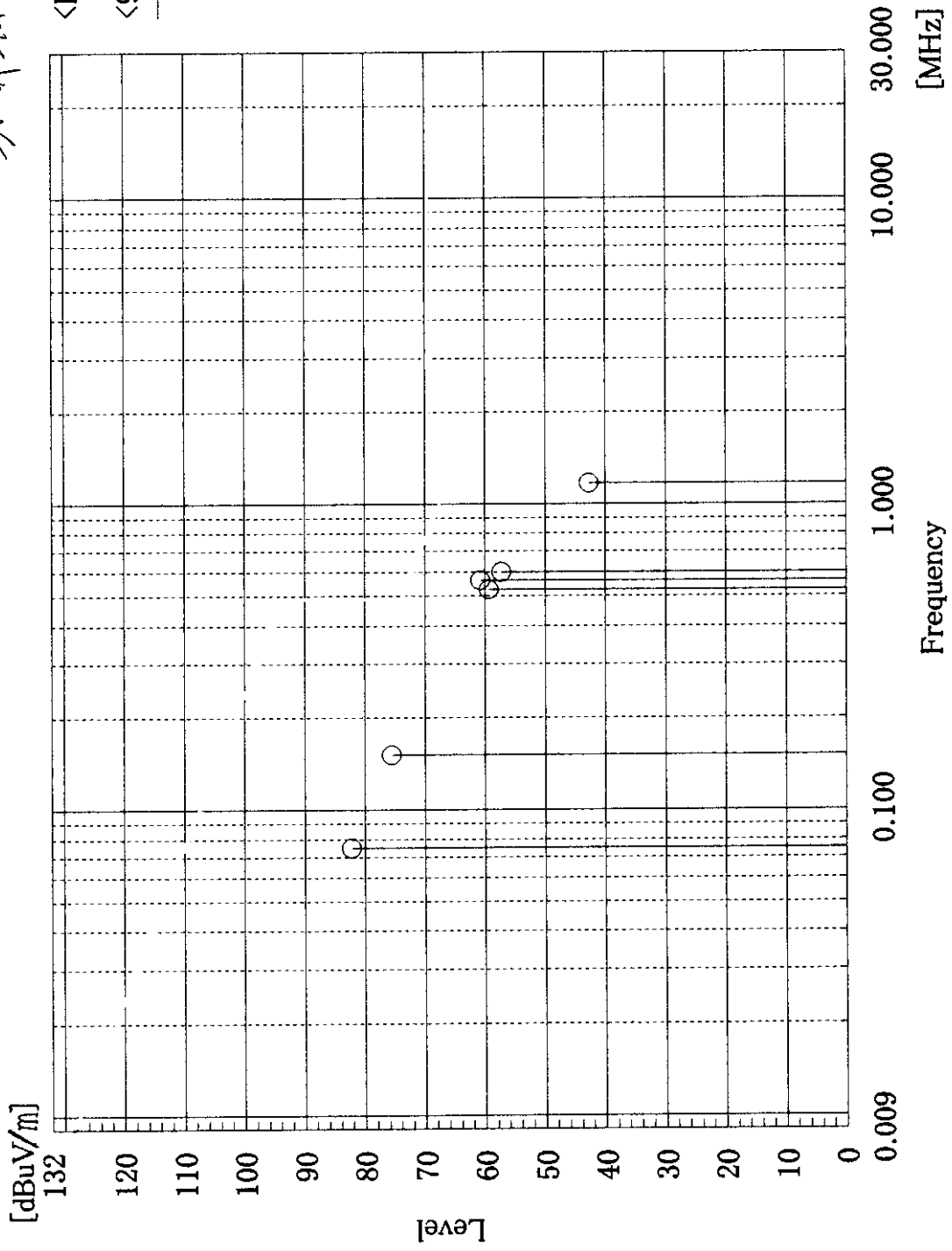
No.	Frequency	Reading	c. f	Result	Limit	Margin
	[MHz]	[dBuV/m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]
1	0.075	61.3	21.0	82.3	110.1	27.8
2	0.151	54.6	21.0	75.6	104.0	28.4
3	0.526	38.8	20.6	59.4	73.2	13.8
4	0.563	40.2	20.6	60.8	72.6	11.8
5	0.601	36.7	20.6	57.3	72.0	14.7
6	1.165	22.2	20.5	42.7	66.2	23.5

Model : KX-MC1PC
 S/N : ES1001
 Product Name : MicroCast
 File No : 009
 Power Source : AC 120V / 60Hz

Standard : FCC Part15C
 Temp/Humi : 24deg / 52%
 Test Mode : Theater Mode
 Remarks : CH=4, f=5.845GHz
 Operator : H. WAKABAYASHI

若林 浩

<FCC C_MAG>
 Limit (QP)
 <99623M09>



TEST CONDITION

CONDUCTED EMISSION TEST

The test setup was made according to ANSI STD C63.4-1992 clause 7 on a shielded room. The EUT, PC and peripherals were located on the non-conductive wooden table top. Rear of EUT shall be all aligned and flush with rear of this wooden table top. The height of this table was 0.8 m and 1.5 m wide x 1.0 m deep size. Rear of table top was 40 cm removed from a vertical wall of the shielded room. (conducting plane that is bonded to the floor ground plane) Spacing between the each equipment maintain 10 cm. The keyboard and Joy-Stick were flushed with front of table top and Mouse was flushed with back of keyboard. Connection of the EUT is located so that the distance between the boundary of the EUT and the closet surface of the artificial mains network is 0.8 m. Where a mains flexible cord is provided by the manufacture this is 1.9 m long and excess length of the EUT mains flexible cord was bundled to 0.8 m. Interconnecting cables of table top equipment were shortened to appropriate length on the table. The measurement has been conducted with both line and neutral power supply polarization. The highest voltage of the EUT has been recorded. By varying the configuration of the test sample and the cable routing it was attempted to maximize the voltage emission. For further description of the configuration refer to the pictures of this report.

Number of Channels Tested:

Frequency Band	Number of Channels	Channel Location
Less than 1MHz	1	Middle
1 - 10MHz	2	Top, Bottom
More than 10MHz	3	Top, Middle, Bottom

List of the Instrumentation

4. Conducted Emission(450kHz-30MHz)

- 1) Equipment : Test Receiver
 - Model No : HP8546A
 - S/N : 3807A00432
 - Manufacture : Hewlett Packard
 - Frequency Range : 9 kHz to 6.9 GHz
 - System Bandwidth: 10 kHz
 - Detector : Quasi-Peak
 - Last Calibrate : 1998/12/09
 - Next Calibrate : 1999/12/09

- 2) Equipment : LISN for EUT
 - Model No : ESH2-Z5
 - S/N : 846953/003
 - Manufacture : Rhode & Schwarz
 - Frequency Range : 0.15 MHz to 30 MHz
 - RF Load : 50 ohm 50 micro henry
 - Last Calibrate : 1999/04/14
 - Next Calibrate : 2000/04/14

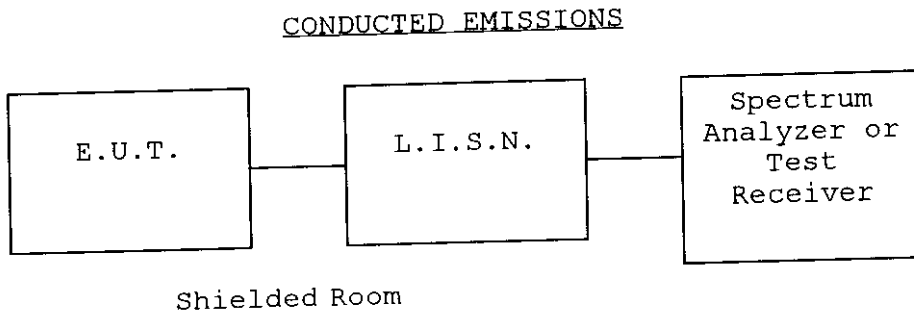
- 3) Equipment : LISN for Peripherals
 Model No : KNW-407
 S/N : 8-1420-14
 Manufacture : Kyoritsu
 Frequency Range : 0.15 MHz to 30 MHz
 RF Load : 50 ohm 50 micro henry
 Last Calibrate : 1999/04/14
 Next Calibrate : 2000/04/14

- 4) Equipment : 50 ohm Terminator for Second LISN
 Model No : CT-10BP
 S/N : 211542
 Manufacture : Tamagawa Electronics
 Last Calibrate : 1999/08/28
 Next Calibrate : 1999/08/28

- 5) Equipment : Transient Limiter
 Model No : 11947A
 S/N : 3107A02621
 Manufacture : Hewlett Packard
 Last Calibrate : 1999/02/01
 Next Calibrate : 2000/02/01

- 6) Equipment : Cable System
 Consists of : Attenuator, Pre-Amplifier, Switch Unit and cable
 Manufacture : IPS Corporation
 Frequency Range : 0.15 MHz to 30 MHz
 Last Calibrate : 1999/02/01
 Next Calibrate : 2000/02/01

BLOCK DIAGRAM



***** IPS Corporation *****
<<Conducted Emission>>

19 August, 1999 09:31
99623C04. dat

Standard : FCC Part15C
Model : KX-MC1PC
S/N : ES1001
Product Name : MicroCast
File No. : 004
Power Source : AC 120 V / 60 Hz
Temp/Humi : 25deg / 56%
Test Mode : PC Mode
Remarks : 1ch, f=5.755GHz
Operator : H. WAKABAYASHI

若折光

Final Result

--- N Phase ---

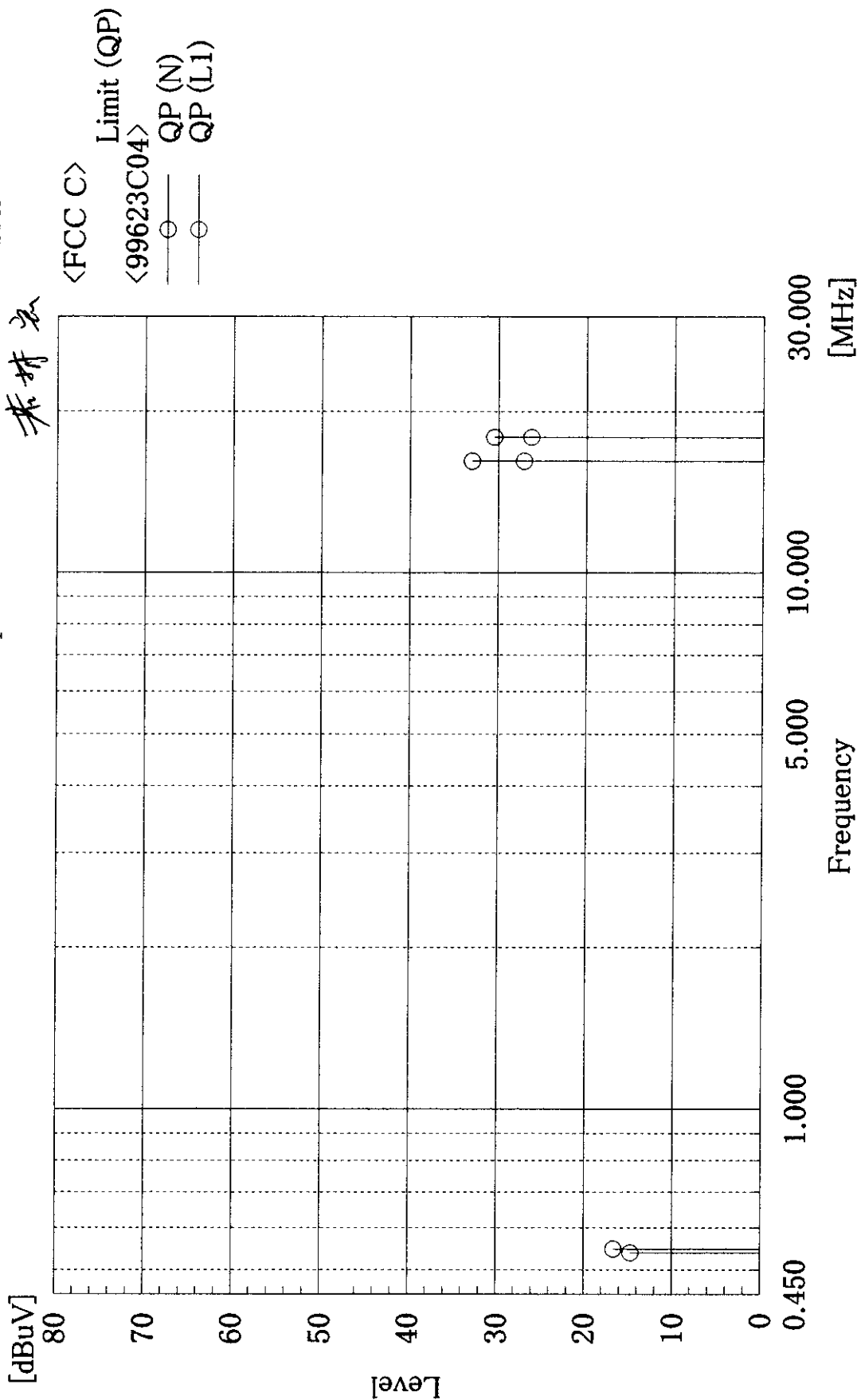
No.	Frequency	Reading	c. f	Result	Limit	Margin
	[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
1	0.548	6.4	10.2	16.6	48.0	31.4
2	16.131	22.2	10.8	33.0	48.0	15.0
3	17.898	19.7	10.8	30.5	48.0	17.5

--- L1 Phase ---

No.	Frequency	Reading	c. f	Result	Limit	Margin
	[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
1	0.539	4.5	10.2	14.7	48.0	33.3
2	16.132	16.1	11.0	27.1	48.0	20.9
3	17.899	15.2	11.1	26.3	48.0	21.7

Model : KX-MC1PC
S/N : ES1001
Product Name : MicroCast
File No. : 004
Power Source : AC 120 V / 60 Hz

Standard : FCC Part15C
Temp/Humi : 25deg / 56%
Test Mode : PC Mode
Remarks : 1ch, f=5.755GHz
Operator : H. WAKABAYASHI



[dBuV]

Level

Frequency

[MHz]

<FCC C>

Limit (QP)

<99623C04>

QP (N)

QP (L1)

株式会社

19 August, 1999 10:31
99623C06.dat

Standard : FCC Part15C
Model : KX-MC1PC
S/N : ES1001
Product Name : MicroCast
File No. : 006
Power Source : AC 120 V / 60 Hz
Temp/Humi : 25deg / 56%
Test Mode : PC Mode
Remarks : 2ch, f=5.785GHz
Operator : H. WAKABAYASHI

Handwritten signature

Final Result

--- N Phase ---

No.	Frequency	Reading	c. f	Result	Limit	Margin
	[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
1	0.450	11.7	10.2	21.9	48.0	26.1
2	16.131	21.6	10.8	32.4	48.0	15.6
3	17.898	20.5	10.8	31.3	48.0	16.7

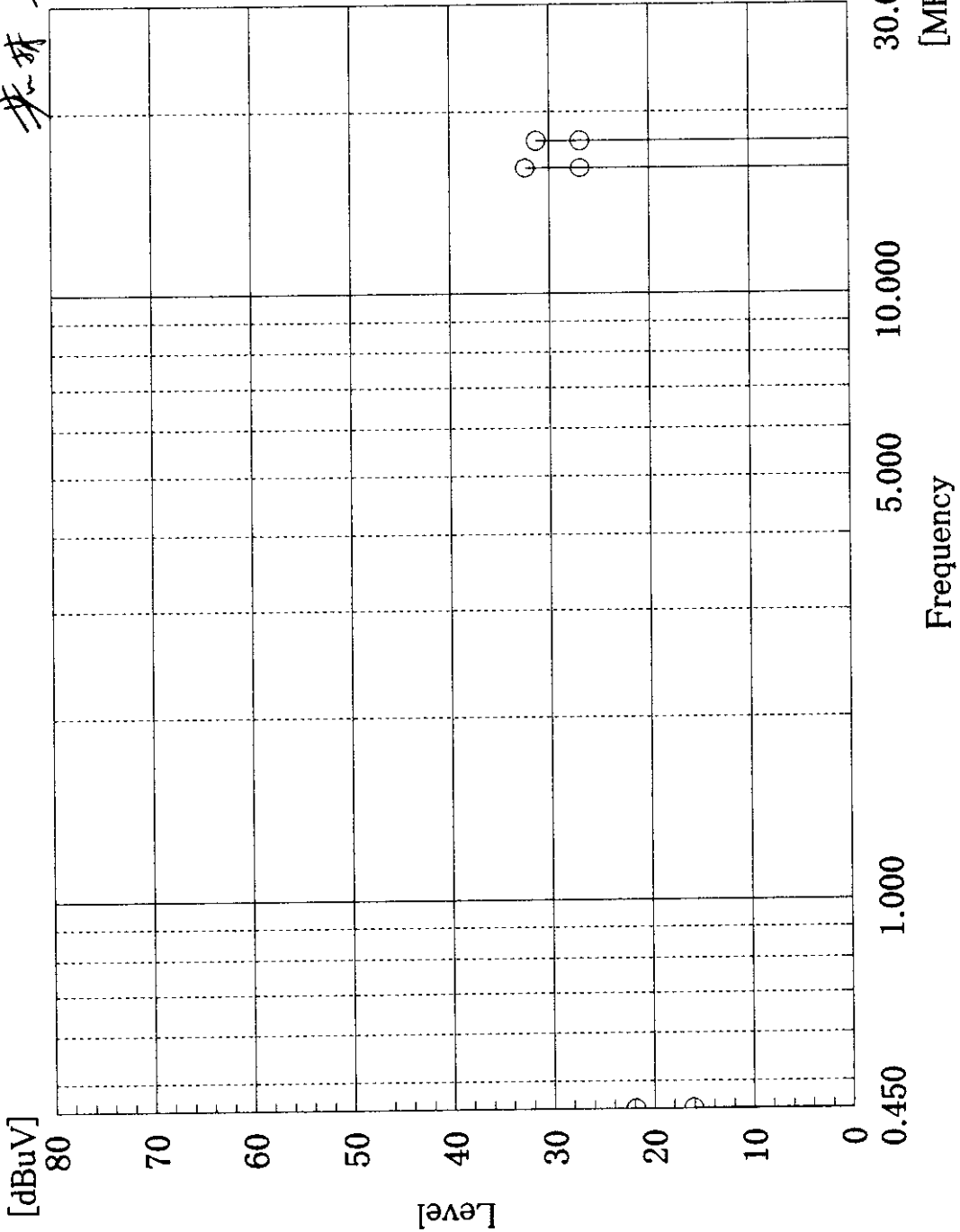
--- L1 Phase ---

No.	Frequency	Reading	c. f	Result	Limit	Margin
	[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
1	0.451	5.9	10.2	16.1	48.0	31.9
2	16.131	15.9	11.0	26.9	48.0	21.1
3	17.897	15.8	11.1	26.9	48.0	21.1

Model : KX-MC1PC
S/N : ES1001
Product Name : MicroCast
File No. : 006
Power Source : AC 120 V / 60 Hz

Standard : FCC Part15C
Temp/Humi : 25deg / 56%
Test Mode : PC Mode
Remarks : 2ch, f=5.785GHz
Operator : H. WAKABAYASHI

花井 光
<FCC C>
Limit (QP)
<99623C06>
QP (N)
QP (L1)



***** IPS Corporation *****
<<Conducted Emission>>

19 August, 1999 11:18
99623C08. dat

Standard : FCC Part15C
Model : KX-MC1PC
S/N : ES1001
Product Name : MicroCast
File No. : 008
Power Source : AC 120 V / 60 Hz
Temp/Humi : 25deg / 56%
Test Mode : PC Mode
Remarks : 4ch, f=5.845GHz
Operator : H. WAKABAYASHI

Handwritten signature

Final Result

--- N Phase ---

No.	Frequency	Reading	c. f	Result	Limit	Margin
	[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
1	0.450	10.5	10.2	20.7	48.0	27.3
2	16.131	21.9	10.8	32.7	48.0	15.3
3	17.898	21.2	10.8	32.0	48.0	16.0

--- L1 Phase ---

No.	Frequency	Reading	c. f	Result	Limit	Margin
	[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
1	0.450	6.1	10.2	16.3	48.0	31.7
2	16.132	16.5	11.0	27.5	48.0	20.5
3	17.898	16.5	11.1	27.6	48.0	20.4

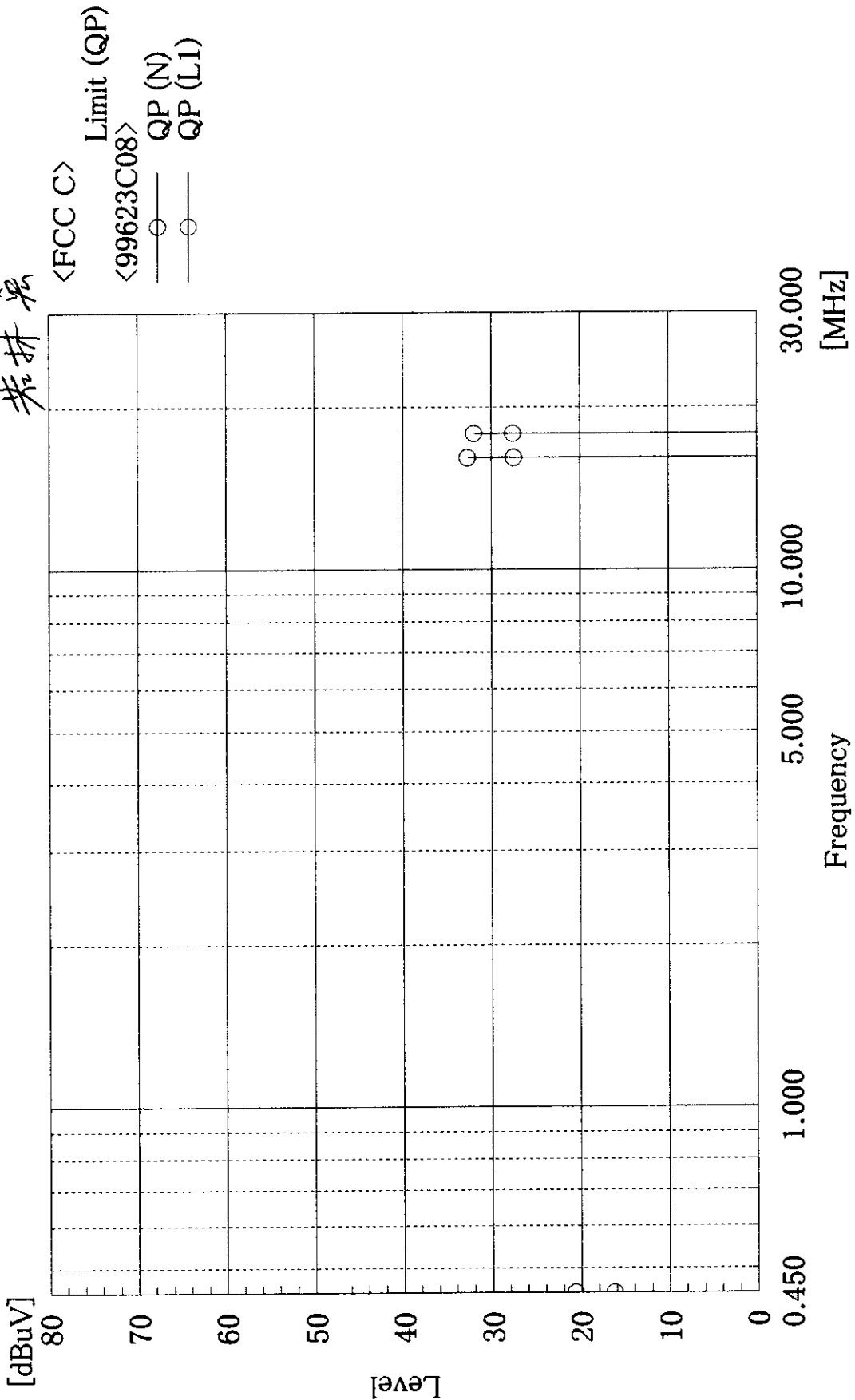
<<Conducted Emission>>

IPS Corporation
EMC Center

Model : KX-MC1PC
S/N : ES1001
Product Name : MicroCast
File No. : 008
Power Source : AC 120 V / 60 Hz

Standard : FCC Part15C
Temp/Humi : 25deg / 56%
Test Mode : PC Mode
Remarks : 4ch, f=5.845GHz
Operator : H. WAKABAYASHI

若林 宏



***** IPS Corporation *****
<<Conducted Emission>>

19 August, 1999 10:07
99623C05.dat

Standard : FCC Part15C
Model : KX-MC1PC
S/N : ES1001
Product Name : MicroCast
File No. : 005
Power Source : AC 120 V / 60 Hz
Temp/Humi : 25deg / 56%
Test Mode : Theater Mode
Remarks : 1ch, f=5.755GHz
Operator : H. WAKABAYASHI

若林 宏

Final Result

--- N Phase ---

No.	Frequency	Reading	c. f	Result	Limit	Margin
	[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
1	0.450	10.4	10.2	20.6	48.0	27.4
2	16.131	21.7	10.8	32.5	48.0	15.5
3	17.898	20.2	10.8	31.0	48.0	17.0

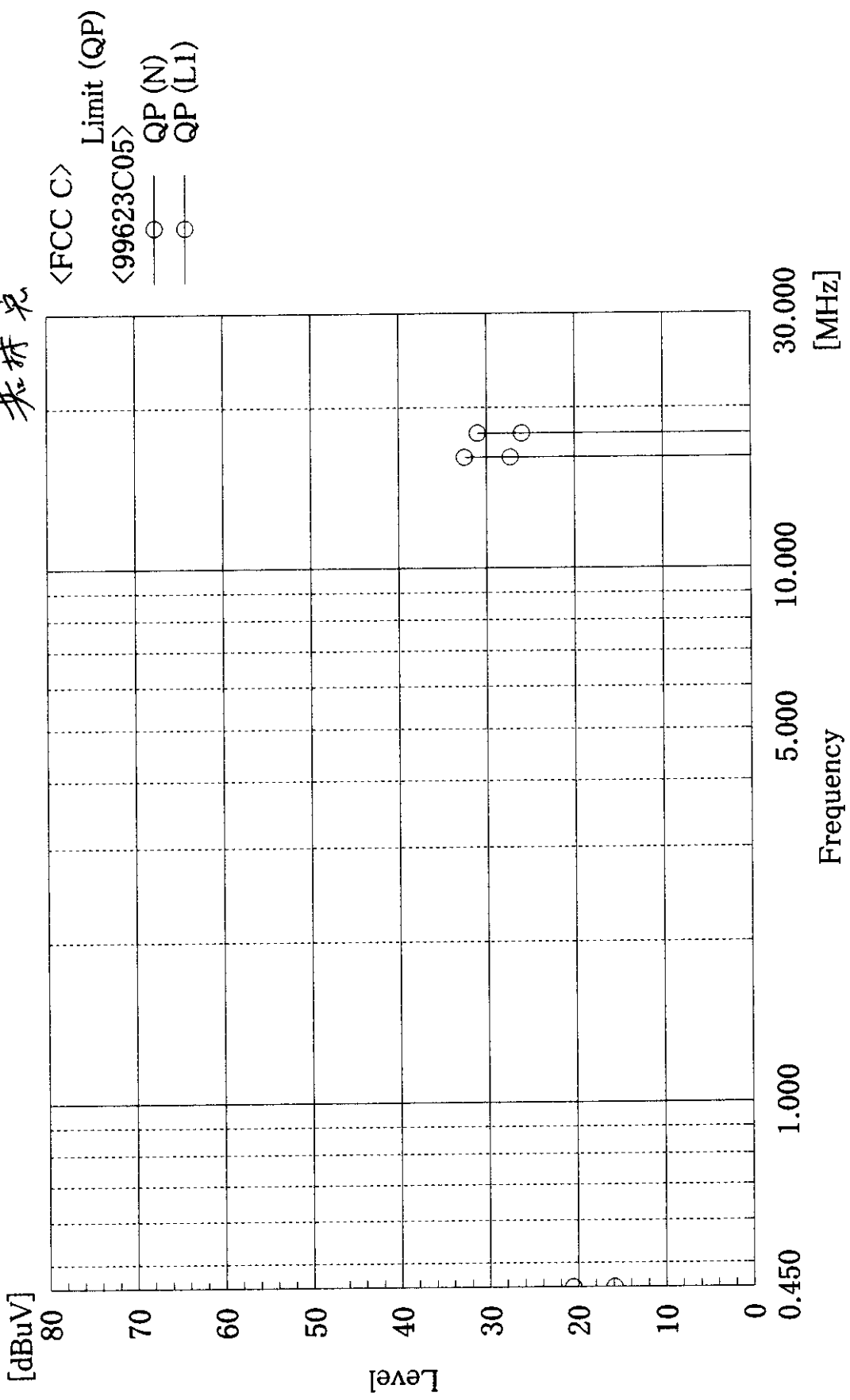
--- L1 Phase ---

No.	Frequency	Reading	c. f	Result	Limit	Margin
	[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
1	0.450	5.7	10.2	15.9	48.0	32.1
2	16.131	16.3	11.0	27.3	48.0	20.7
3	17.898	14.9	11.1	26.0	48.0	22.0

Model : KX-MCIPC
 S/N : ES1001
 Product Name : MicroCast
 File No. : 005
 Power Source : AC 120 V / 60 Hz

Standard : FCC Part15C
 Temp/Humi : 25deg / 56%
 Test Mode : Theater Mode
 Remarks : 1ch, f=5.755GHz
 Operator : H. WAKABAYASHI

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Standard : FCC Part15C
Model : KX-MC1PC
S/N : ES1001
Product Name : MicroCast
File No. : 007
Power Source : AC 120 V / 60 Hz
Temp/Humi : 25deg / 56%
Test Mode : Theater Mode
Remarks : 2ch, f=5.785GHz
Operator : H. WAKABAYASHI

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Final Result

--- N Phase ---

No.	Frequency	Reading	c. f	Result	Limit	Margin
	[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
1	0.450	11.2	10.2	21.4	48.0	26.6
2	16.131	22.2	10.8	33.0	48.0	15.0
3	17.898	20.9	10.8	31.7	48.0	16.3

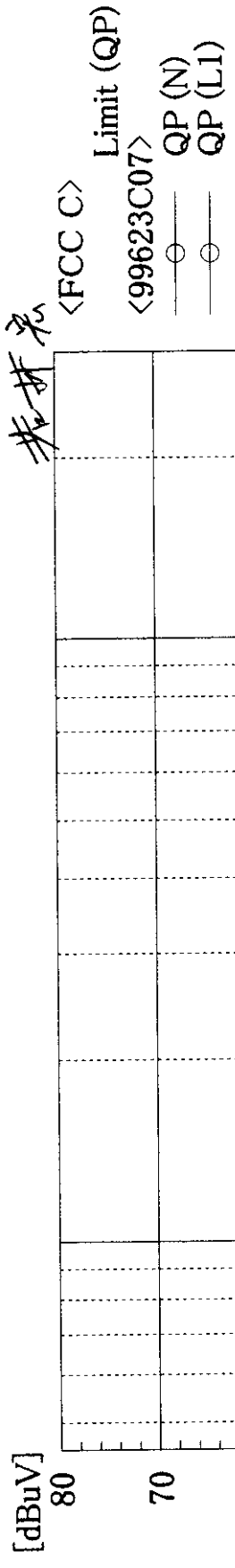
--- L1 Phase ---

No.	Frequency	Reading	c. f	Result	Limit	Margin
	[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
1	0.450	5.9	10.2	16.1	48.0	31.9
2	16.131	16.9	11.0	27.9	48.0	20.1
3	17.898	16.2	11.1	27.3	48.0	20.7

Model : KX-MC1PC
S/N : ES1001
Product Name : MicroCast
File No. : 007
Power Source : AC 120 V / 60 Hz

Standard : FCC Part15C
Temp/Humi : 25deg / 56%
Test Mode : Theater Mode
Remarks : 2ch, f=5.785GHz
Operator : H. WAKABAYASHI

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Frequency [MHz]

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Standard : FCC Part15C
Model : KX-MC1PC
S/N : ES1001
Product Name : MicroCast
File No. : 009
Power Source : AC 120 V / 60 Hz
Temp/Humi : 25deg / 56%
Test Mode : Theater Mode
Remarks : 4ch, f=5.845GHz
Operator : H. WAKABAYASHI

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Final Result

--- N Phase ---

No.	Frequency	Reading	c. f	Result	Limit	Margin
	[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
1	0.462	11.2	10.2	21.4	48.0	26.6
2	16.131	22.4	10.8	33.2	48.0	14.8
3	17.899	21.0	10.8	31.8	48.0	16.2

--- L1 Phase ---

No.	Frequency	Reading	c. f	Result	Limit	Margin
	[MHz]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dB]
1	0.474	5.1	10.2	15.3	48.0	32.7
2	16.131	16.7	11.0	27.7	48.0	20.3
3	17.898	16.2	11.1	27.3	48.0	20.7

Model : KX-MC1PC
S/N : ES1001
Product Name : MicroCast
File No. : 009
Power Source : AC 120 V / 60 Hz

Standard : FCC Part15C
Temp/Humi : 25deg / 56%
Test Mode : Theater Mode
Remarks : 4ch, f=5.845GHz
Operator : H. WAKABAYASHI

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<99623C09>
Limit (QP)
QP (N)
QP (L1)

