



EMI TEST REPORT

Test Report No. : 24GE0260-YK-1

Applicant : Sony Corporation
Type of Equipment : Notebook Personal Computer
Model No. : PCG-6C1L
FCC ID : AK8PCG6C1L
Test standard : FCC Part15 Subpart C, Section 15.247: 2003
Test Result : Complied

1. This test report shall not be reproduced except in full or partial, without the written approval of UL Apex Co., Ltd.
2. The results in this report apply only to the sample tested.

Date of test: April 1, 2, 5, 6, 7, 10 and 12, 2004

Tested by:


Toyokazu Imamura

Approved by:


Osamu Watatani
Site Manager of Yamakita EMC Lab.

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MF060b(11.04.03)

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1 GENERAL INFORMATION

Applicant

Company Name : Sony Corporation
Brand Name : SONY
Address : 6-7-35 Kita-shinagawa, Shinagawa-ku, Tokyo, 141- 0001 JAPAN
Telephone Number : +81 3 5795 8711
Facsimile Number : +81 3 5795 8981
Contact Person : Tsutomu Shibusawa (tshibu@sm.sony.co.jp)
Type of Equipment : Notebook Personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Rating : DC16V (AC Adaptor: 100-240V/60Hz)
Receipt Date of Sample : April 1, 2004
Condition of EUT : Engineering prototype
(Not for Sale: This sample is equivalent to mass-produced items.)
Country of manufacture : Japan
Regulation(s) : FCC Part15 Subpart C, Section 15.247: 2003
Test Site : UL Apex Yamakita EMC lab.
No.1 Anechoic chamber and No. 4 Shielded room

1.1 Tested Methodology

The measurements were performed according to the procedures in ANSI C63.4 (2001).
These tests were also referred to FCC 97-114 "Guidance on Measurement for Direct Sequence Spread Spectrum Systems".

1.2 Test Facility

This site has been fully described in a report submitted to FCC office, and accepted on November 8, 2002.
(No.1 Anechoic chamber Registration No.: 95967)
NVLAP Lab. code : 200441-0

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2 PRODUCT DESCRIPTION

Model: PCG-6C1L (referred to as the EUT in this report) is a Notebook Personal Computer with Wireless LAN module (IEEE802.11b, IEEE802.11g) and Bluetooth module, which was certificated (FCC ID: CWTUGPZ5).
The antenna is included in the EUT.

The clock frequencies used in EUT:

2472MHz, 2000MHz, 330MHz, 230MHz, 100MHz, 66MHz, 65MHz, 48MHz, 33MHz, 27MHz, 25MHz,
24.576MHz, 14.318MHz, 14MHz, 12.288MHz, 10MHz

[Wireless LAN Module]

Equipment type	:	Transceiver
Frequency of operation	:	2412 - 2462 MHz
Channel spacing	:	5 MHz
Channel number	:	11
Type of modulation	:	DSSS
Antenna fixing method	:	Internal
Antenna type	:	1/4λ Monopole
Antenna connector type	:	U.FL connector <Hirose>
Antenna gain	:	Right (Sub): -2.45 dBi (including 2.42 dB cable loss) Left (Main): -3.43 dBi (including 3.27 dB cable loss)
Mode of operation	:	Duplex
Emission Designation	:	22M0P7D
Operation temperature range:	:	0 - 35 deg. C.

*FCC Part15.31 (e)

The host device PCG-6C1L provides the Wireless LAN module with stable power supply (DC3.3V), and the power is not changed when voltage of the notebook personal computer is varied.
Therefore, the notebook personal computer complies power supply regulation.

*FCC Part 15.203 Antenna requirement

The standard type of antenna connector is applied: however, the notebook personal computer complies this requirement since this radio equipment is for professional installation.

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3 SYSTEM TEST CONFIGURATION

3.1 Justification

The system was configured in typical fashion (as a customer would normally use it) for testing.

Test mode: 12 modes

Transmitting (IEEE802.11b (11Mbps))	-2412MHz (Low)
	-2437MHz (Middle)
	-2462MHz (High)
Transmitting (IEEE802.11g (54Mbps))	-2412MHz (Low)
	-2437MHz (Middle)
	-2462MHz (High)
Transmitting (IEEE802.11b (11Mbps)) +Bluetooth (Hopping)	-2412MHz (Low)
	-2437MHz (Middle)
	-2462MHz (High)
Transmitting (IEEE802.11g (54Mbps)) +Bluetooth (Hopping)	-2412MHz (Low)
	-2437MHz (Middle)
	-2462MHz (High)

The test was performed with the Main antenna which has the higher antenna gain (since the both main and sub antenna are the same type and set up symmetrically).

The EUT has an ability to provide some different modulation and data rates. Some of these modulation and data rates did not change in the spectrum envelopes of the EUT at conducted measurement with the antenna terminal. Therefore, the results of the final measurements were the IEEE 802.11b DSSS (CCK, QPSK, 11Mbps) and IEEE 802.11g OFDM (64QAM, 54Mbps) modulation as the highest data rate.

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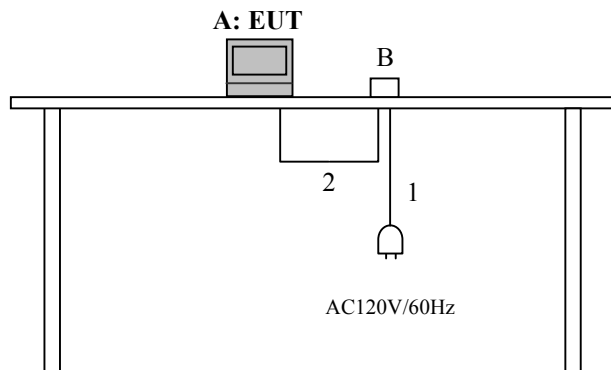
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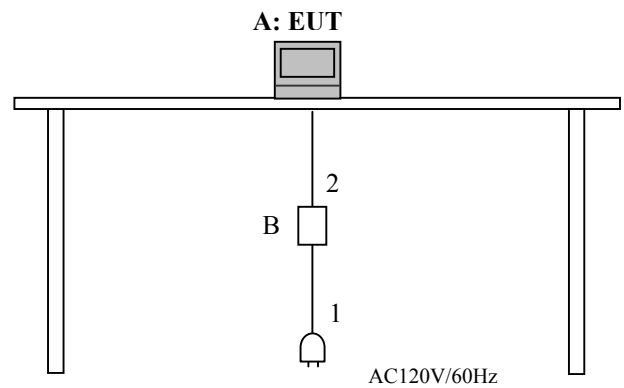
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3.2 Configuration of Tested System

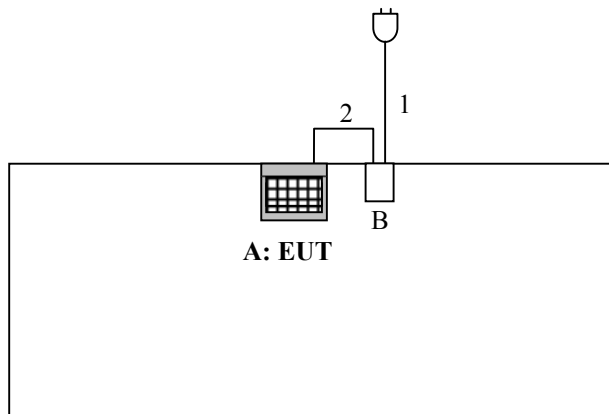
Front View (Conducted emission)



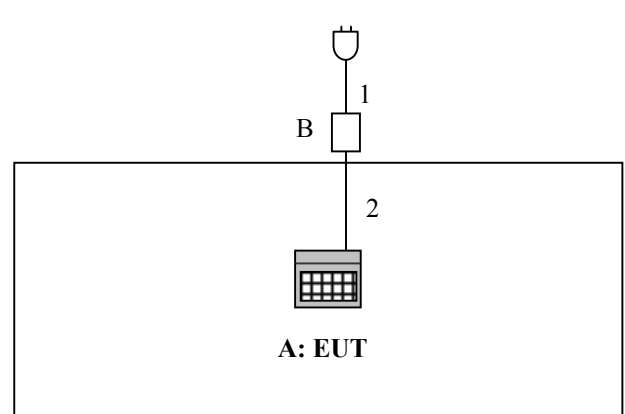
Front View (Radiated emission)



Top View (Conducted emission)



Top View (Radiated emission)



*Cabling was taken into consideration and test data was taken under worse case conditions.

Description of EUT and support equipment

No.	Item	Model number	Serial number	Manufacturer	FCC ID	Remarks
A	Notebook Personal Computer	PCG-6C1L	XTA004	SONY	AK8PCG6C1L	EUT
B	AC Adapter	PCGA-AC16V6	-	SONY	-	-

List of cables used

No.	Name	Length (m)	Shield	Backshell material
1	AC Cable	0.8	Unshielded	Polyvinyl chloride
2	DC Cable	1.0	Unshielded	Polyvinyl chloride

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4 MEASUREMENT UNCERTAINTY

Conducted emission test

The measurement uncertainty (with a 95% confidence level) for this test was ± 1.3 dB.

The data listed in this test report has enough margin, more than site margin.

Radiated emission test

The measurement uncertainty (with 95% confidence level) for this test using Biconical antenna is ± 4.8 dB.

The measurement uncertainty (with 95% confidence level) for this test using Logperiodic antenna is ± 5.2 dB.

The measurement uncertainty (with 95% confidence level) for this test using Horn antenna is ± 6.6 dB.

The data listed in this report meets the limits unless the uncertainty is taken into consideration.

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5 SUMMARY OF TESTS

5.1 §15.207 Conducted Emissions (Limits by CISPR Pub.22 Class B)

Test Procedure

EUT was placed on a platform of nominal size, 1m by 1.5m, raised 80cm above the conducting ground plane. The rear of tabletop was located 40cm to the vertical conducting plane. The rear of EUT and AC adapter were aligned and flushed with rear of tabletop.

All other surfaces of tabletop were at least 80cm from any other grounded conducting surface. EUT was located 80cm from LISN and excess AC cable was bundled in center.

Each EUT current-carrying power lead, except the ground (safety) lead, was individually connected through a LISN to the input power source.

The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT on a shielded room.

The EUT was connected to a Line Impedance Stabilization Network (LISN).

An overview sweep with peak detection has been performed.

The measurements have been performed with a CISPR quasi-peak detector (IF BW 9kHz).

(Measurement range: 150kHz to 30MHz)

Test data : APPENDIX 2 Page 13 to 28
Photographs of test setup : Page 11
Test result : Pass
Test instruments : KCC-33/34, KLS-06, KSA-04, KTR-01

5.2 §15.247 (a)(2) 6dB Bandwidth (Antenna Port Conducted)

Test Procedure

The minimum 6dB bandwidth was measured with a spectrum analyzer connected to the antenna port.

Test data : APPENDIX 2 Page 29 to 30
Test result : Pass
Test instruments : KTR-01, KCC-D7

5.3 § 15.247 (b)(1) Maximum Peak Output Power (Antenna Port Conducted)

Test Procedure

The Maximum Peak Output power was measured with a power meter connected to the antenna port.

* Antenna Gain dose not exceed 6dBi.

Test data : APPENDIX 2 Page 31 to 32
Test result : Pass
Test instruments :
IEEE 802.11b : KPM-05, KPSS-01
IEEE 802.11g : KTR-01, KCC-D7

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5.4 § 15.247 (c) Out of Band Emissions (Radiated)

Test Procedure

EUT was placed on a platform of nominal size, 1m by 1.5m, raised 80cm above the conducting ground plane. Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength. The Radiated Electric Field Strength intensity has been measured in an anechoic chamber with a ground plane and at a distance of 3m. The measuring antenna height was varied between 1 and 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

Radiated spurious emissions

In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator confirmed 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on a radiated measurement. The result was also satisfied the general limits specified in Sec.15.209 (a).

Measurement range : 30MHz to 1000MHz CISPR QP Detector, IF BW 120kHz
: 1GHz to 26GHz PK and AV Detector

Test data : APPENDIX 2 Page 33 to 44 (30 - 1000MHz)
: APPENDIX 2 Page 45 to 68 (1 - 26GHz)
: APPENDIX 2 Page 69 to 84
(Band Edges: 2390MHz/ 2483.5MHz, Restricted band Charts)

Photographs of test setup: Page 12

Test result : Pass

Test instruments : KAF-02, KAF-05, KAT10-S1, KAT6-02, KBA-03, KTR-01, KFL-01
KCC-30/31/32/34, KCC-D3/D7, KHA-01, KHA-03, KLA-03, KAEC-01, KSA-04

5.5 § 15.247 (c) Out of Band Emissions (Antenna Port Conducted)

Test Procedure

The Out of Band Emissions was measured with a spectrum analyzer connected to the antenna port.

Test data : APPENDIX 2 Page 85 to 96
Test result : Pass
Test instruments : KTR-01, KCC-D7

5.6 § 15.247 (d) Power Density (Antenna Port Conducted)

Test Procedure

The Power Density was measured with a spectrum analyzer connected to the antenna port.

Test data : APPENDIX 2 Page 97 to 99
Test result : Pass
Test instruments : KTR-01, KCC-D7

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APPENDIX 1: Photographs of test setup

1. Page 11	:	Conducted emission
2. Page 12	:	Radiated emission

APPENDIX 2: Test Data

1. Page 13 – 28	:	Conducted emission
13 - 16		Transmitting (IEEE802.11b (11Mbps))
17 - 20		Transmitting (IEEE802.11g (54Mbps))
21 - 24		Transmitting (IEEE802.11b (11Mbps)) +Bluetooth (Hopping)
25 - 28		Transmitting (IEEE802.11g (54Mbps)) +Bluetooth (Hopping)
2. Page 29 – 30	:	6dB Bandwidth (Antenna Port Conducted)
29		Transmitting (IEEE802.11b (11Mbps))
30		Transmitting (IEEE802.11g (54Mbps))
3. Page 31 – 32	:	Maximum Peak Output Power (Antenna Port Conducted)
31		Transmitting (IEEE802.11b (11Mbps)), Transmitting (IEEE802.11g (54Mbps))
32		Spectrum Analyzer data at Transmitting (IEEE802.11g (54Mbps))
4. Page 33 – 84	:	Out Band of Emissions (Radiated)
<u>30-1000MHz</u>		
33 - 35		Transmitting (IEEE802.11b (11Mbps))
36 - 38		Transmitting (IEEE802.11g (54Mbps))
39 - 41		Transmitting (IEEE802.11b (11Mbps)) +Bluetooth (Hopping)
42 - 44		Transmitting (IEEE802.11g (54Mbps)) +Bluetooth (Hopping)
<u>1-26GHz</u>		
45 - 50		Transmitting (IEEE802.11b (11Mbps))
51 - 56		Transmitting (IEEE802.11g (54Mbps))
57 - 62		Transmitting (IEEE802.11b (11Mbps)) +Bluetooth (Hopping)
63 - 68		Transmitting (IEEE802.11g (54Mbps)) +Bluetooth (Hopping)
<u>Band Edges</u>		
69 - 72		Transmitting (IEEE802.11b (11Mbps))
73 - 76		Transmitting (IEEE802.11g (54Mbps))
77 - 80		Transmitting (IEEE802.11b (11Mbps)) +Bluetooth (Hopping)
81 - 84		Transmitting (IEEE802.11g (54Mbps)) +Bluetooth (Hopping)
5. Page 85 – 96	:	Out Band of Emissions (Antenna Port Conducted)
85 - 90		Transmitting (IEEE802.11b (11Mbps))
91 - 96		Transmitting (IEEE802.11g (54Mbps))
6. Page 97 – 99	:	Power Density (Antenna Port Conducted)
97		Transmitting (IEEE802.11b (11Mbps)), Transmitting (IEEE802.11g (54Mbps))
98		Chart of Transmitting (IEEE802.11b (11Mbps))
99		Chart of Transmitting (IEEE802.11g (54Mbps))

APPENDIX 3: Test instruments

Page 100	:	Test instruments
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Conducted emission



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Radiated emission



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DATA OF CONDUCTION TEST

UL Apex Co.,Ltd.
Yamakita No.2 Shielded Room
Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2412MHz)
Remarks : IEEE802.11b (11Mbps)
Date : 4/12/2004
Phase : Single Phase
Temperature : 21 °C Engineer : Toyokazu Imamura
Humidity : 52 %
Regulation : FCC Part15C § 15.207. (CISPR Pub. 22)

No.	FREQ. [MHz]	READING (N)		READING (L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP	AV	QP	AV				QP	AV	QP	AV	QP	AV
		[dB μ V]	[dB μ V]	[dB μ V]	[dB μ V]				[dB]	[dB μ V]	[dB μ V]	[dB μ V]	[dB]	[dB]
1.	0.1500	51.1	35.0	52.0	34.9	0.1	0.2	0.0	52.3	35.3	66.0	56.0	13.7	20.7
2.	0.3363	37.8	24.9	42.3	29.0	0.1	0.3	0.0	42.7	29.4	59.3	49.3	16.6	19.9
3.	0.5098	29.2	19.4	29.4	15.5	0.1	0.3	0.0	29.8	19.8	56.0	46.0	26.2	26.2
4.	4.8957	30.8	19.3	29.7	19.9	0.2	0.4	0.0	31.4	20.5	56.0	46.0	24.6	25.5
5.	5.9985	31.3	24.8	29.3	22.2	0.2	0.4	0.0	31.9	25.4	60.0	50.0	28.1	24.6
6.	19.0000	30.3	24.5	29.8	23.9	0.9	0.6	0.0	31.8	26.0	60.0	50.0	28.2	24.0

CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

■ LISN : KLS-06 (NSLK8127) ■ COAXIAL CABLE : KCC-33/34
■ EMI RECEIVER : KTR-01 (ES140)

DATA OF CONDUCTION TEST CHART

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Yamakita No.2 Shielded Room

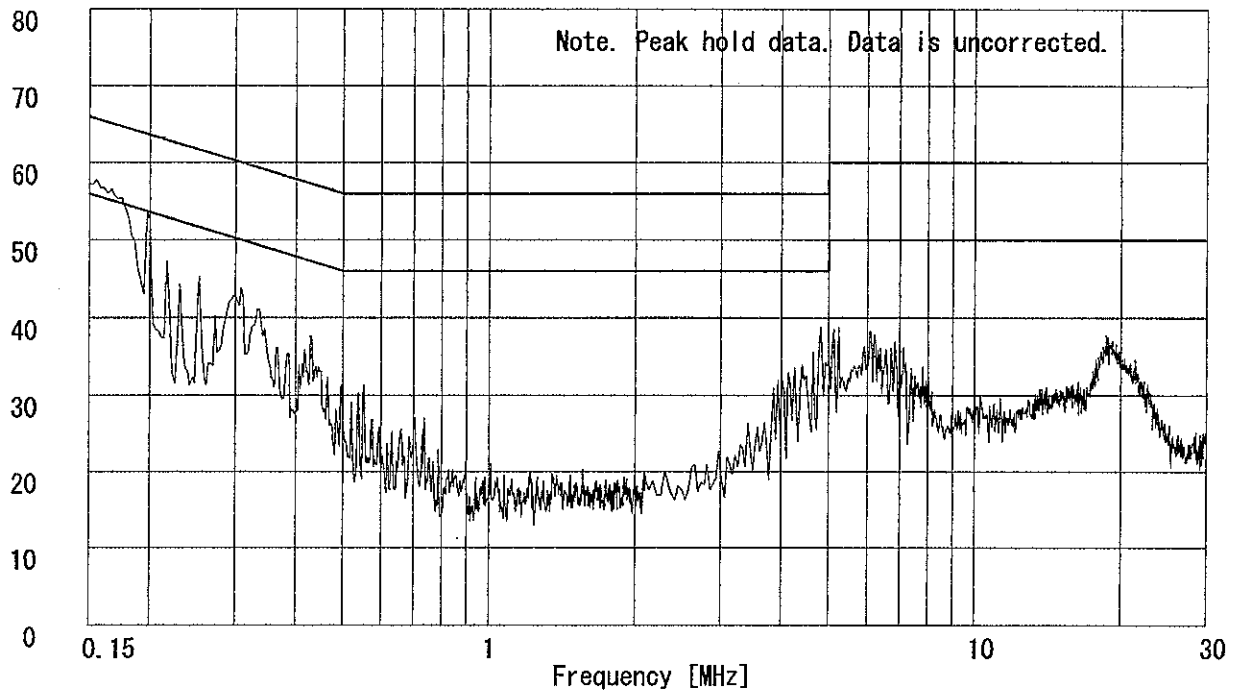
Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting(2412MHz)
Remarks : IEEE802.11b(11Mbps)
Date : 4/12/2004
Temperature : 21 °C
Humidity : 52 %
Regulation 1 : FCC Part15C § 15.207. (CISPR Pub. 22)
Regulation 2 : None

Engineer : Toyokazu Imamura

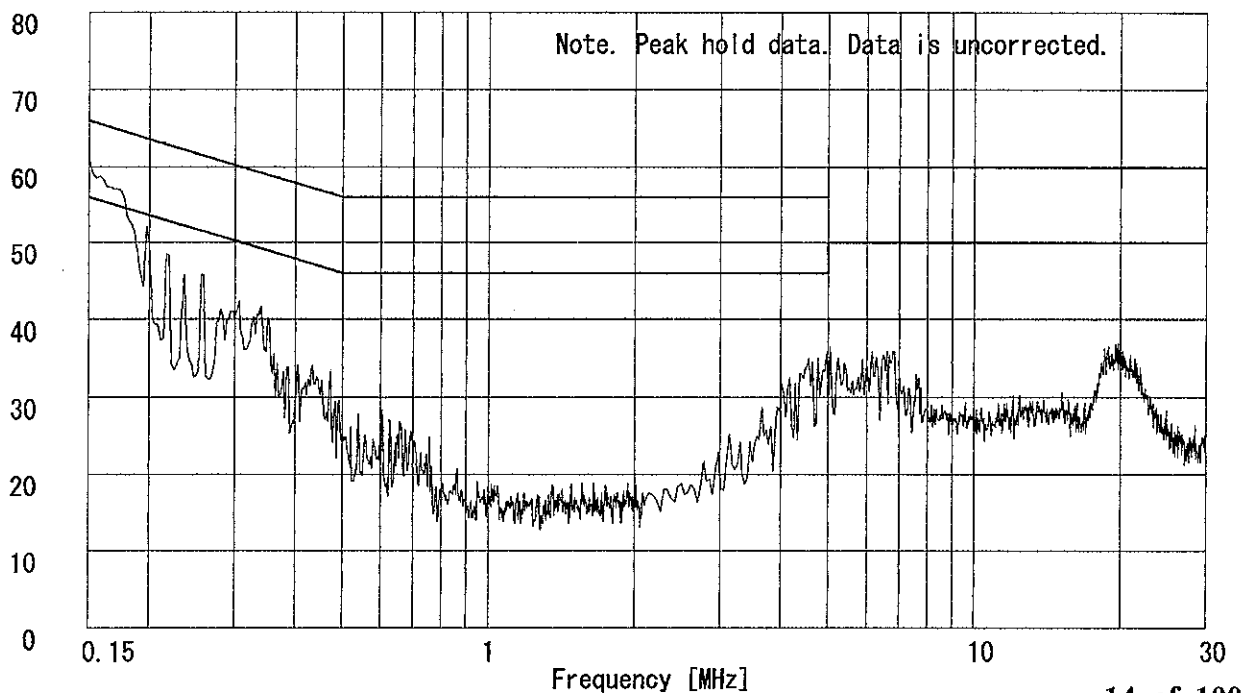
Emission Level [dB μ V]

PHASE:N



Emission Level [dB μ V]

PHASE:L1



DATA OF CONDUCTION TEST CHART

UL Apex Co.,Ltd.

Yamakita No.2 Shielded Room

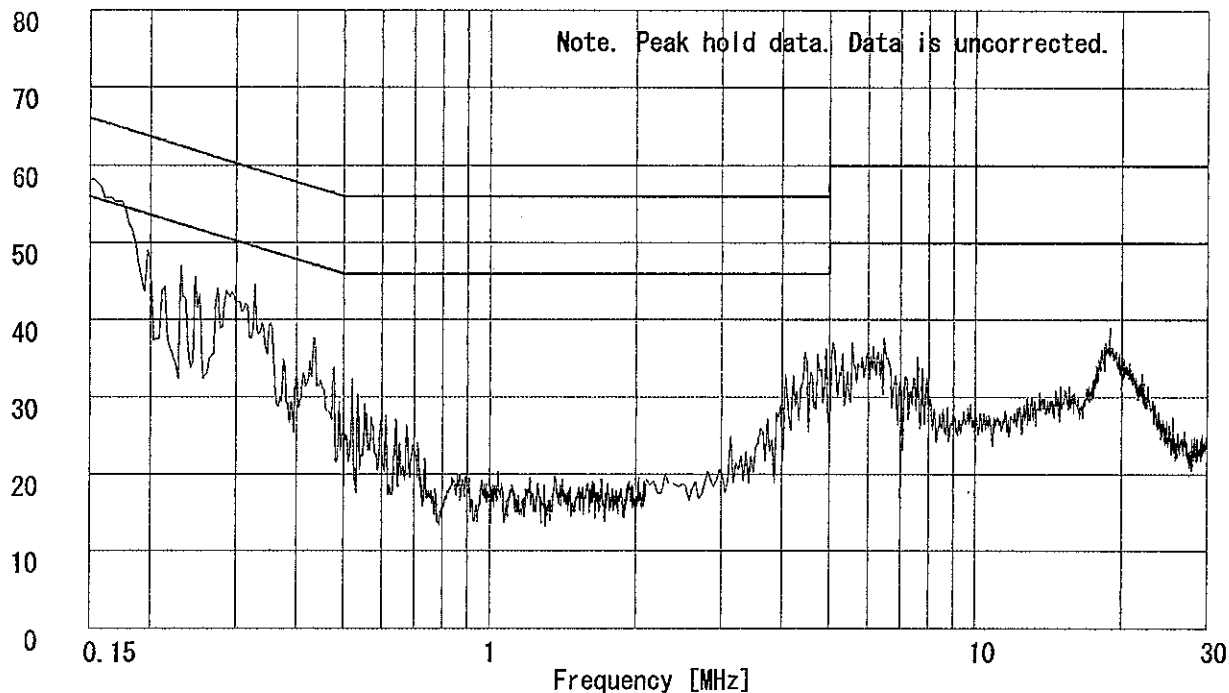
Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2437MHz)
Remarks : IEEE802.11b (11Mbps)
Date : 4/12/2004
Temperature : 21 °C
Humidity : 52 %
Regulation 1 : FCC Part15C § 15.207. (CISPR Pub.22)
Regulation 2 : None

Engineer : Toyokazu Imamura

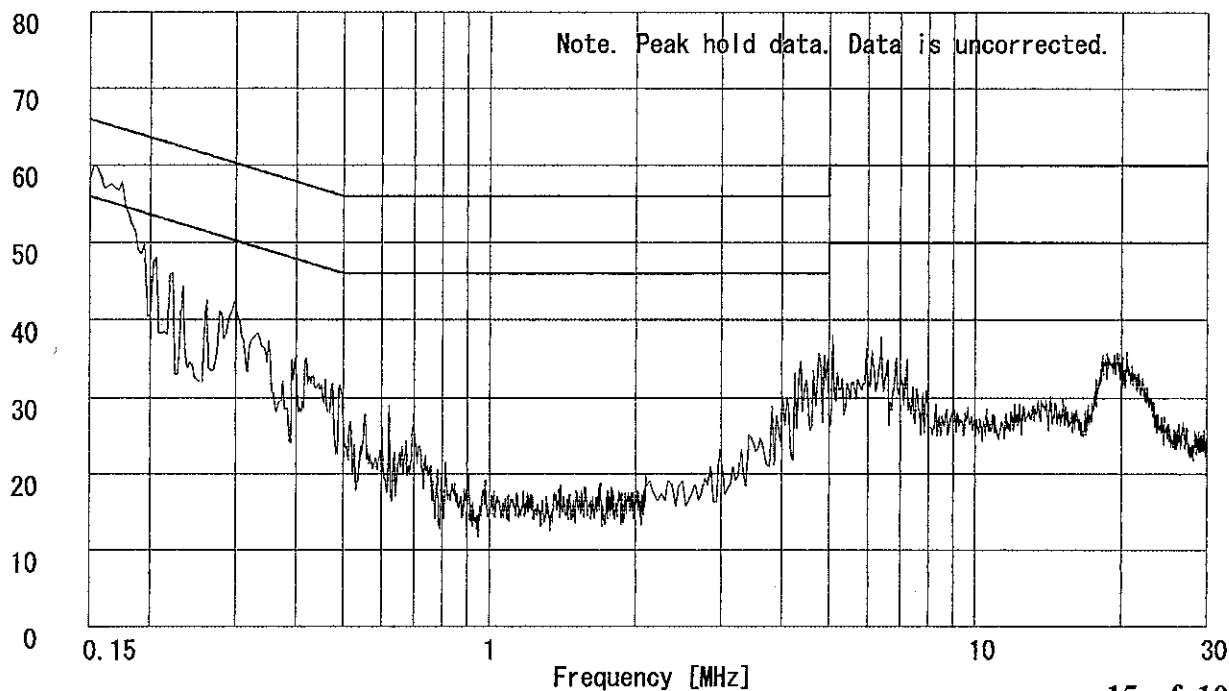
Emission Level [dB μ V]

PHASE:N



Emission Level [dB μ V]

PHASE:L1



DATA OF CONDUCTION TEST CHART

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Yamakita No.2 Shielded Room

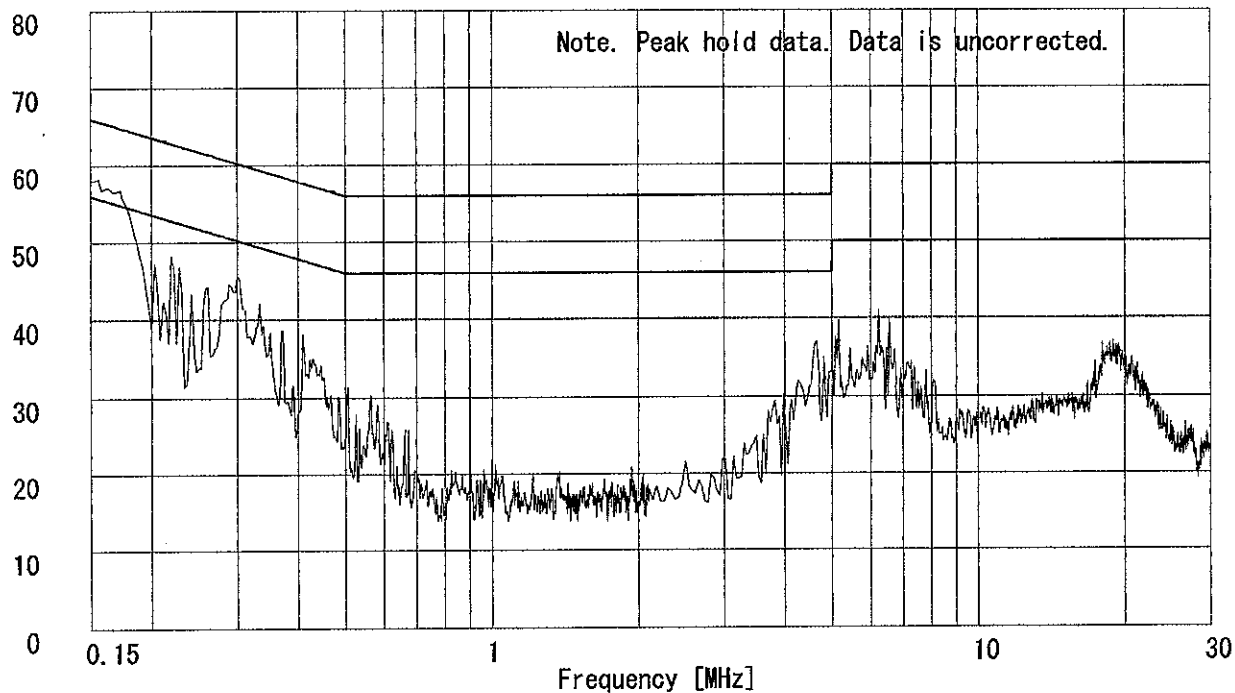
Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2462MHz)
Remarks : IEEE802.11b (11Mbps)
Date : 4/12/2004
Temperature : 21 °C
Humidity : 52 %
Regulation 1 : FCC Part15C § 15.207. (CISPR Pub. 22)
Regulation 2 : None

Engineer : Toyokazu Imamura

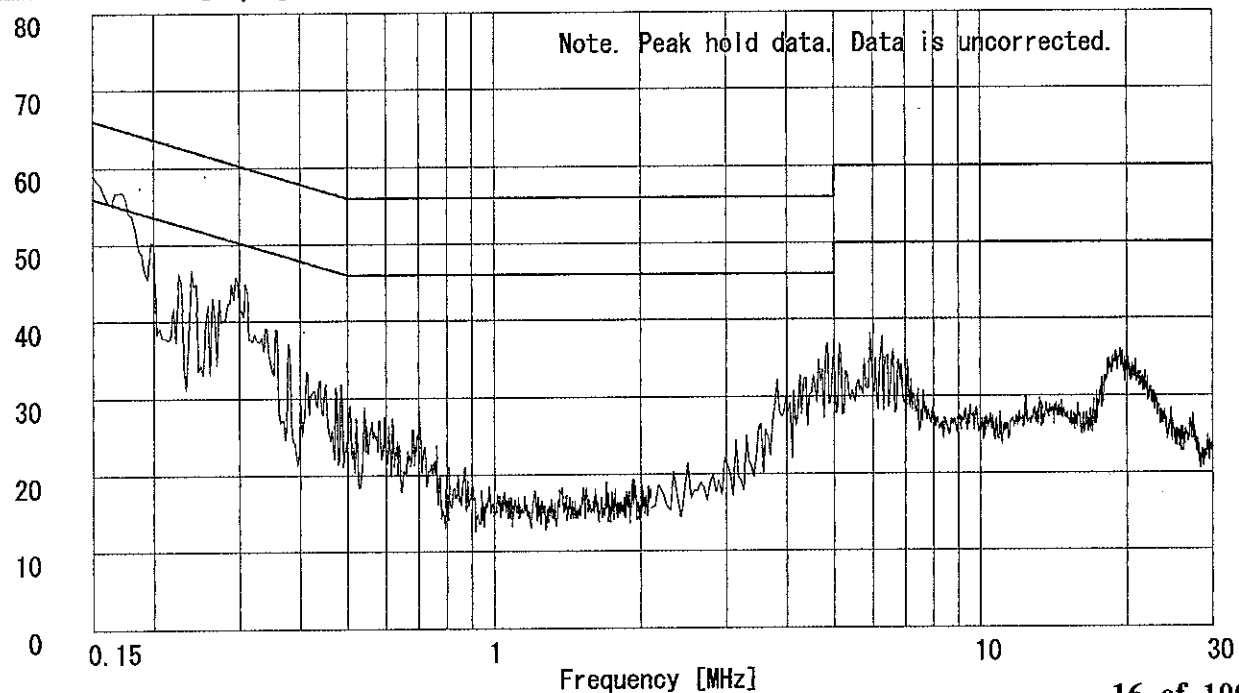
Emission Level [dB μ V]

PHASE:N



Emission Level [dB μ V]

PHASE:L1



DATA OF CONDUCTION TEST

UL Apex Co.,Ltd.
Yamakita No.2 Shielded Room
Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting(2412MHz)
Remarks : IEEE802.11g(54Mbps)
Date : 4/12/2004
Phase : Single Phase
Temperature : 21 °C
Humidity : 52 %
Regulation : FCC Part15C § 15.207. (CISPR Pub. 22)

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	READING(N)		READING(L1)		LISN FACTOR	CABLE LOSS	ATTEN.	RESULT		LIMITS		MARGIN	
		QP	AV	QP	AV				QP	AV	QP	AV	QP	AV
		[dB μ V]		[dB μ V]		[dB]	[dB]	[dB]	[dB]		[dB μ V]		[dB μ V]	[dB]
1.	0.1500	52.9	35.7	51.0	34.5	0.1	0.2	0.0	53.2	36.0	66.0	56.0	12.8	20.0
2.	0.2893	46.0	32.6	44.1	31.7	0.1	0.2	0.0	46.3	32.9	60.5	50.5	14.2	17.6
3.	0.4327	37.1	28.5	36.4	28.1	0.1	0.3	0.0	37.5	28.9	57.2	47.2	19.7	18.3
4.	0.5758	26.7	24.5	27.5	23.3	0.1	0.3	0.0	27.9	24.9	56.0	46.0	28.1	21.1
5.	6.0150	33.3	23.4	31.3	19.1	0.2	0.4	0.0	33.9	24.0	60.0	50.0	26.1	26.0
6.	21.9594	25.5	19.0	25.2	19.0	1.0	0.6	0.0	27.1	20.6	60.0	50.0	32.9	29.4

CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

■ LISN : KLS-06 (NSLK8127) ■ COAXIAL CABLE : KCC-33/34
■ EMI RECEIVER : KTR-01 (ES140)

DATA OF CONDUCTION TEST CHART

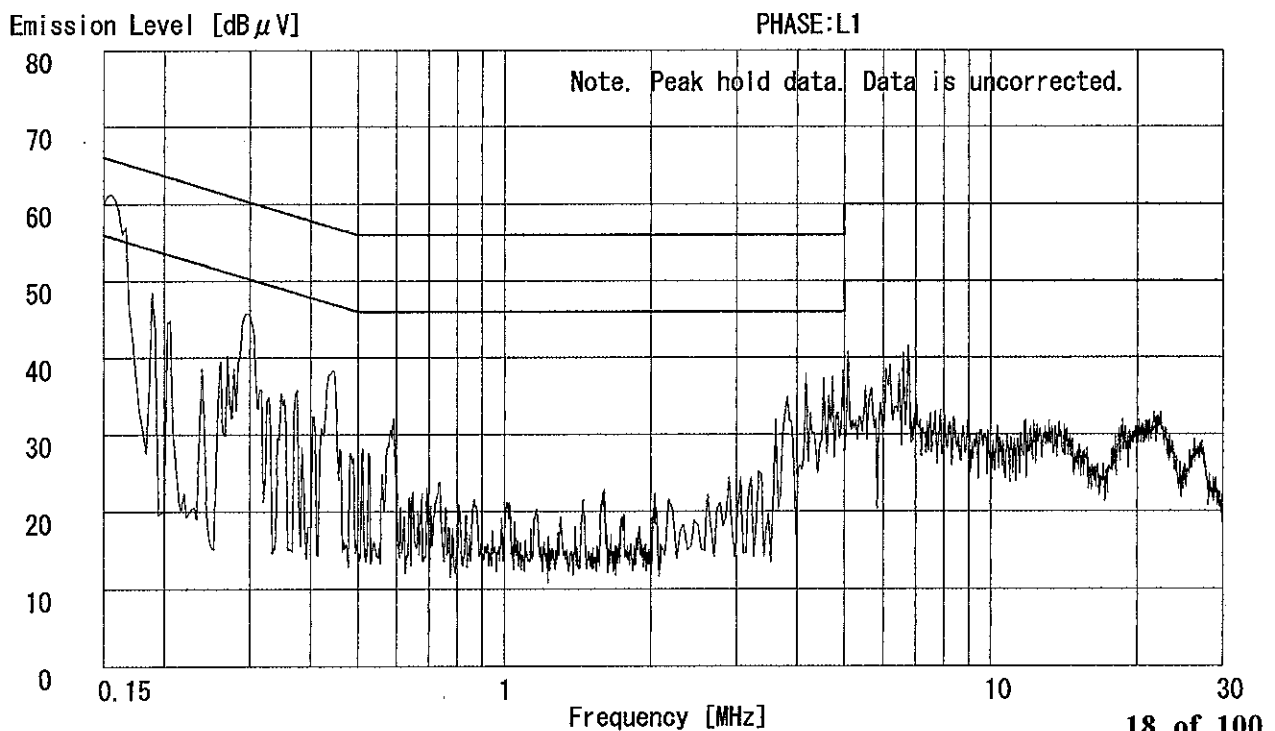
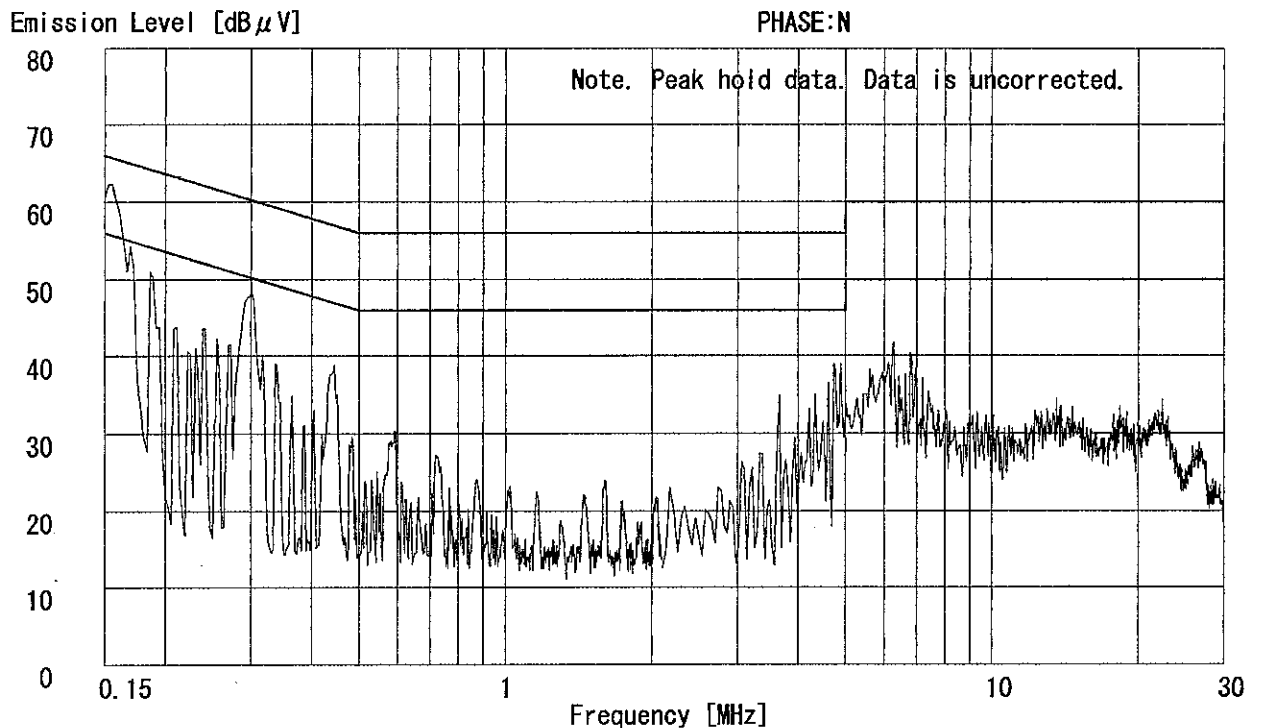
UL Apex Co.,Ltd.

Yamakita No.2 Shielded Room

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2412MHz)
Remarks : IEEE802.11g (54Mbps)
Date : 4/12/2004
Temperature : 21 °C
Humidity : 52 %
Regulation 1 : FCC Part15C § 15.207. (CISPR Pub.22)
Regulation 2 : None

Engineer : Toyokazu Imamura



DATA OF CONDUCTION TEST CHART

UL Apex Co.,Ltd.

Yamakita No.2 Shielded Room

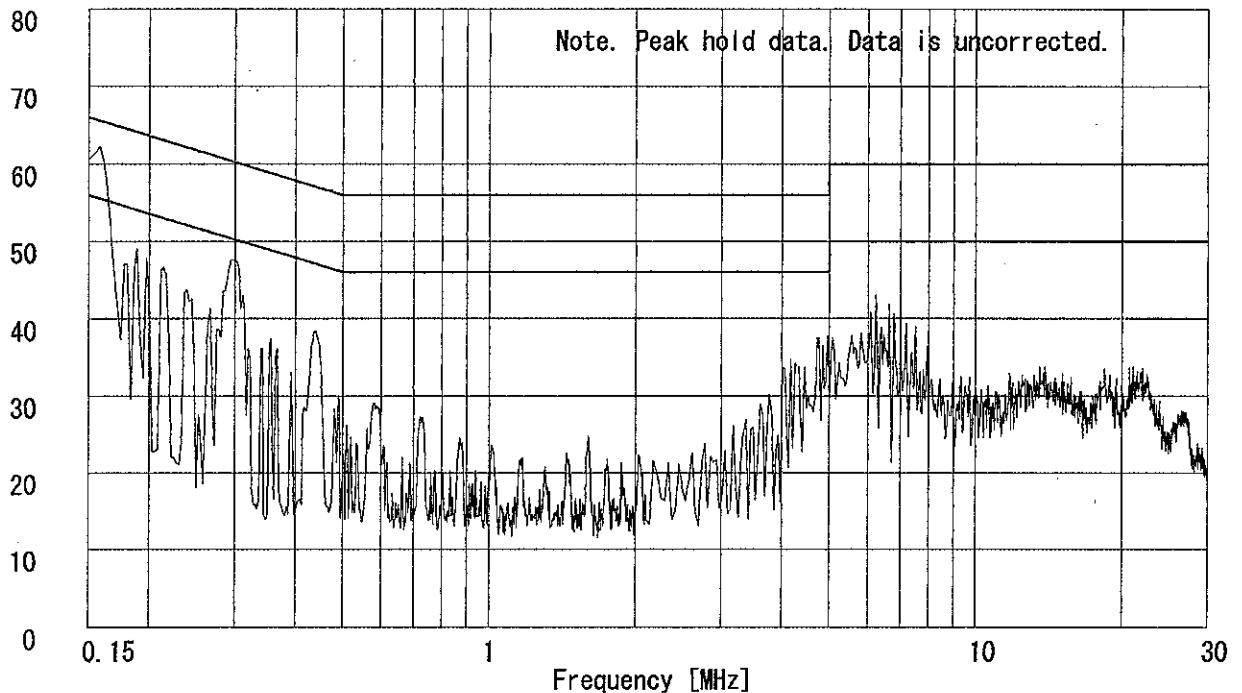
Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting(2437MHz)
Remarks : IEEE802.11g(54Mbps)
Date : 4/12/2004
Temperature : 21 °C
Humidity : 52 %
Regulation 1 : FCC Part15C § 15.207. (CISPR Pub. 22)
Regulation 2 : None

Engineer : Toyokazu Imamura

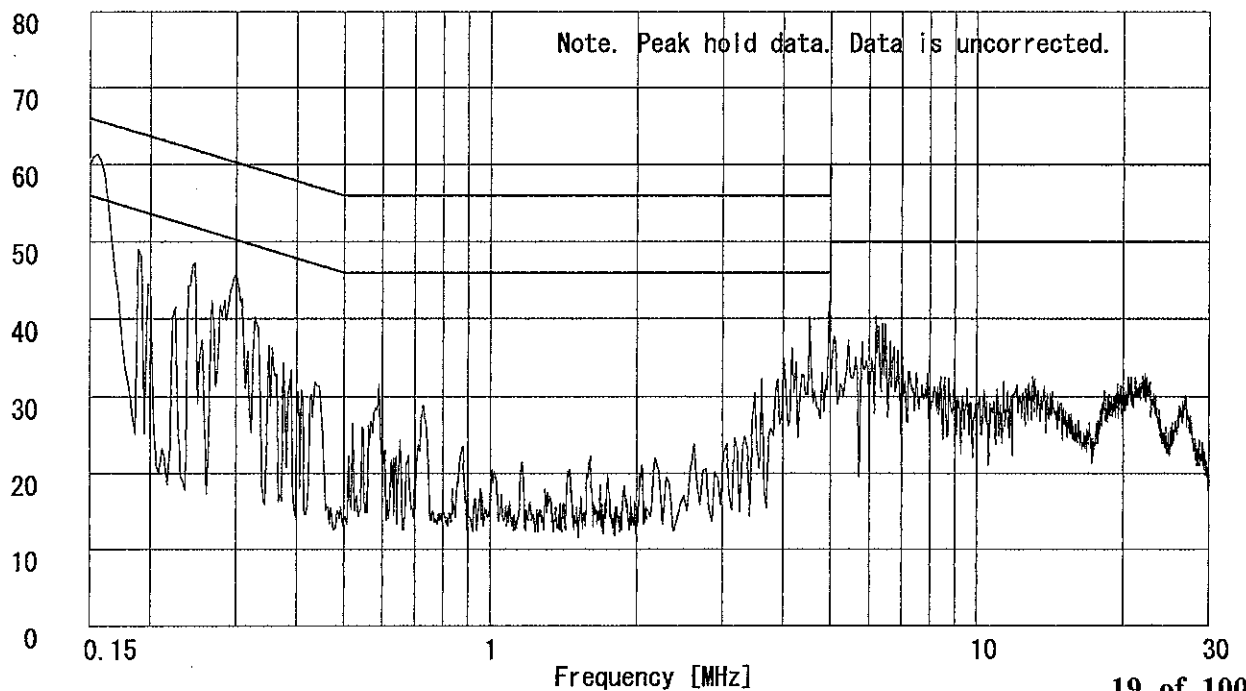
Emission Level [dB μ V]

PHASE:N



Emission Level [dB μ V]

PHASE:L1



DATA OF CONDUCTION TEST CHART

UL Apex Co.,Ltd.

Yamakita No.2 Shielded Room

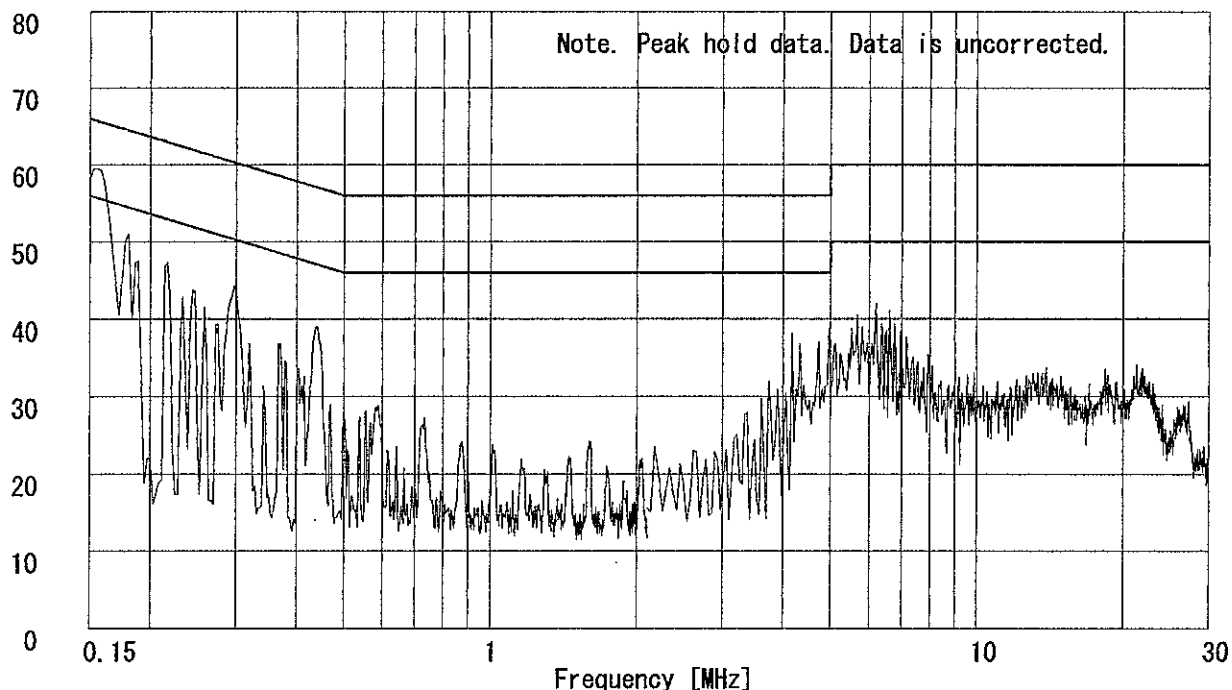
Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting(2462MHz)
Remarks : IEEE802.11g(54Mbps)
Date : 4/12/2004
Temperature : 21 °C
Humidity : 52 %
Regulation 1 : FCC Part15C § 15.207. (CISPR Pub. 22)
Regulation 2 : None

Engineer : Toyokazu Imamura

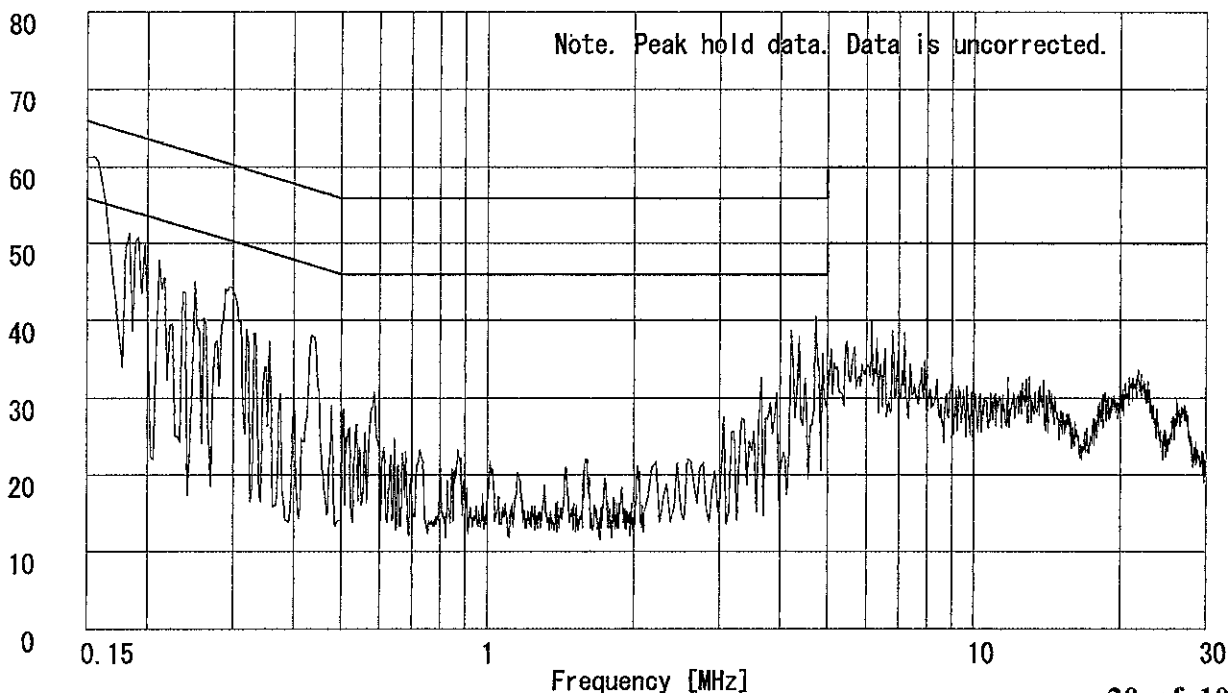
Emission Level [dB μ V]

PHASE:N



Emission Level [dB μ V]

PHASE:L1



DATA OF CONDUCTION TEST

UL Apex Co.,Ltd.
Yamakita No.2 Shielded Room
Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2412MHz)
Remarks : IEEE802.11b (11Mbps)+Bluetooth (Hopping)
Date : 4/12/2004
Phase : Single Phase
Temperature : 21 °C Engineer : Toyokazu Imamura
Humidity : 52 %
Regulation : FCC Part15C § 15.207. (CISPR Pub. 22)

No.	FREQ. [MHz]	READING (N)		READING (L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB μ V]	AV [dB μ V]	QP [dB μ V]	AV [dB μ V]				QP [dB]	AV [dB μ V]	QP [dB μ V]	AV [dB μ V]	QP [dB]	AV [dB]
1.	0.1501	48.7	31.1	47.9	30.6	0.1	0.2	0.0	49.0	31.4	66.0	56.0	17.0	24.6
2.	0.2874	44.9	29.2	44.0	30.2	0.1	0.2	0.0	45.2	30.5	60.6	50.6	15.4	20.1
3.	0.4293	37.3	26.1	36.4	26.1	0.1	0.3	0.0	37.7	26.5	57.3	47.3	19.6	20.8
4.	0.5699	27.4	23.1	27.9	22.6	0.1	0.3	0.0	28.3	23.5	56.0	46.0	27.7	22.5
5.	5.9308	33.7	21.3	32.1	18.4	0.2	0.4	0.0	34.3	21.9	60.0	50.0	25.7	28.1
6.	21.9459	24.9	18.5	25.4	18.8	1.0	0.6	0.0	27.0	20.4	60.0	50.0	33.0	29.6

CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

■ LISN : KLS-06 (NSLK8127) ■ COAXIAL CABLE : KCC-33/34
■ EMI RECEIVER : KTR-01 (ES140)

DATA OF CONDUCTION TEST CHART

UL Apex Co.,Ltd.

Yamakita No.2 Shielded Room

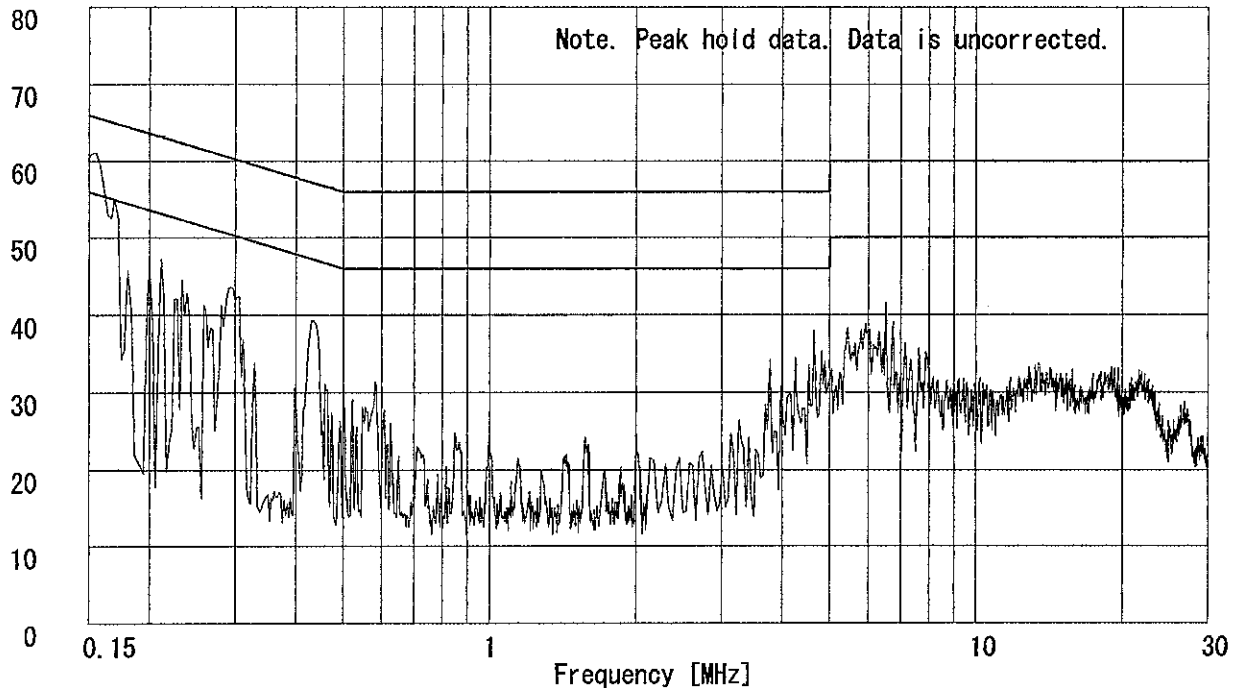
Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2412MHz)
Remarks : IEEE802.11b (11Mbps)+Bluetooth (Hopping)
Date : 4/12/2004
Temperature : 21 °C
Humidity : 52 %
Regulation 1 : FCC Part15C § 15.207. (CISPR Pub. 22)
Regulation 2 : None

Engineer : Toyokazu Imamura

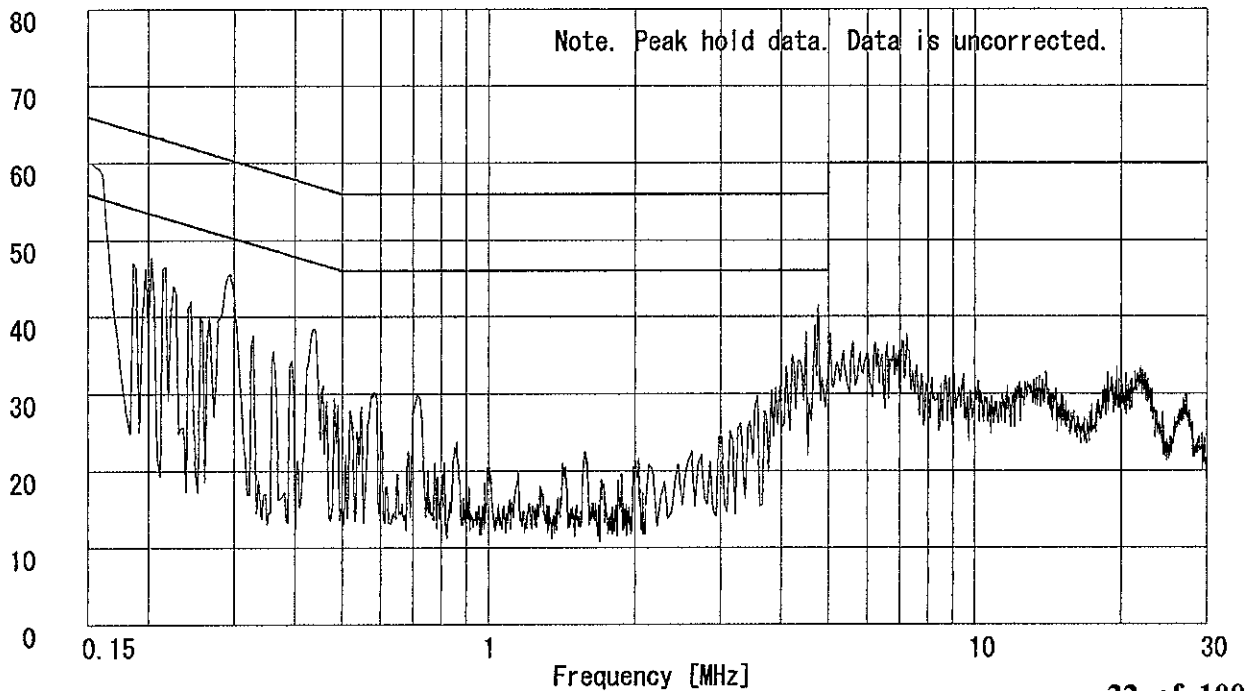
Emission Level [dB μ V]

PHASE:N



Emission Level [dB μ V]

PHASE:L1



DATA OF CONDUCTION TEST CHART

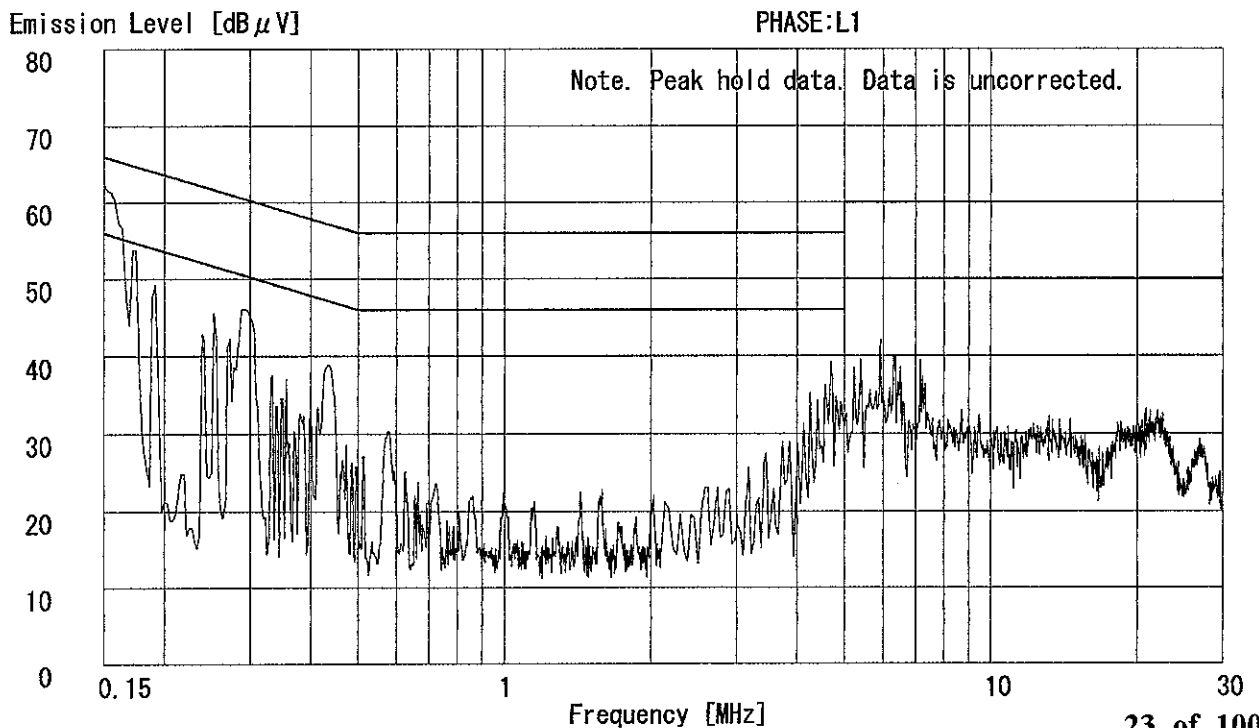
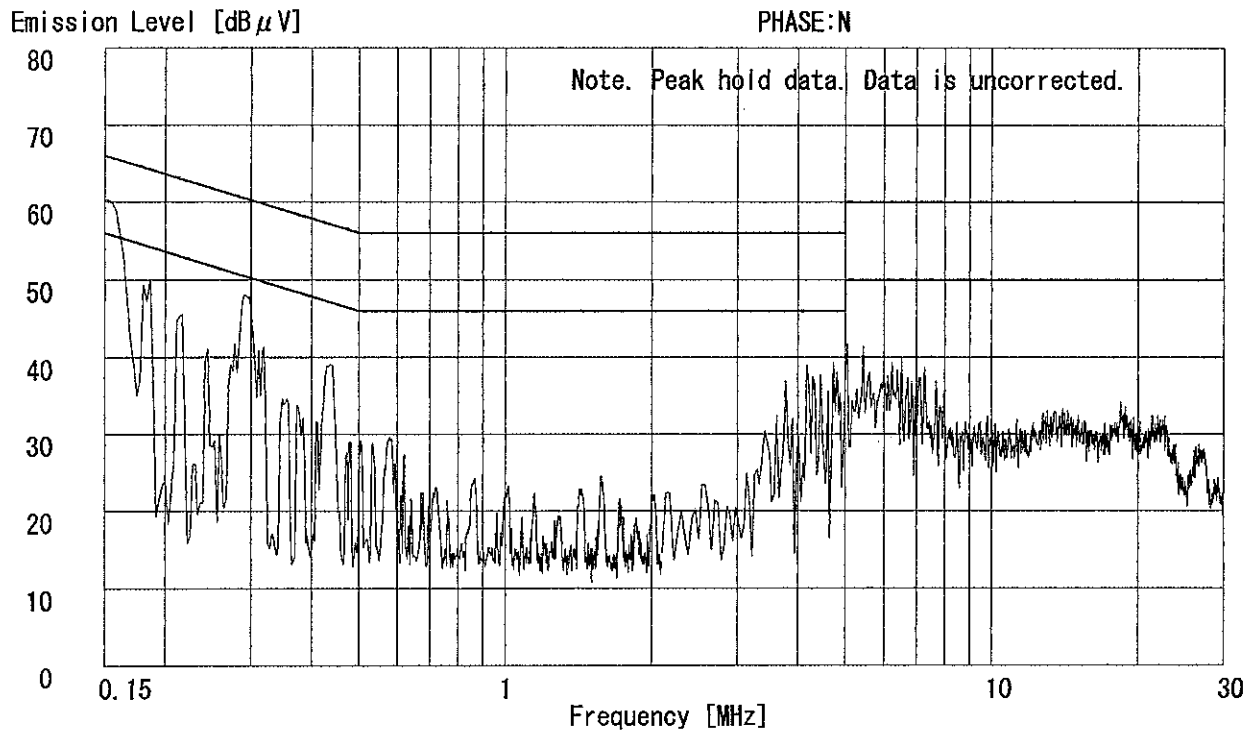
UL Apex Co.,Ltd.

Yamakita No.2 Shielded Room

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting(2437MHz)
Remarks : IEEE802.11b(11Mbps)+Bluetooth(Hopping)
Date : 4/12/2004
Temperature : 21 °C
Humidity : 52 %
Regulation 1 : FCC Part15C § 15.207. (CISPR Pub.22)
Regulation 2 : None

Engineer : Toyokazu Imamura



DATA OF CONDUCTION TEST CHART

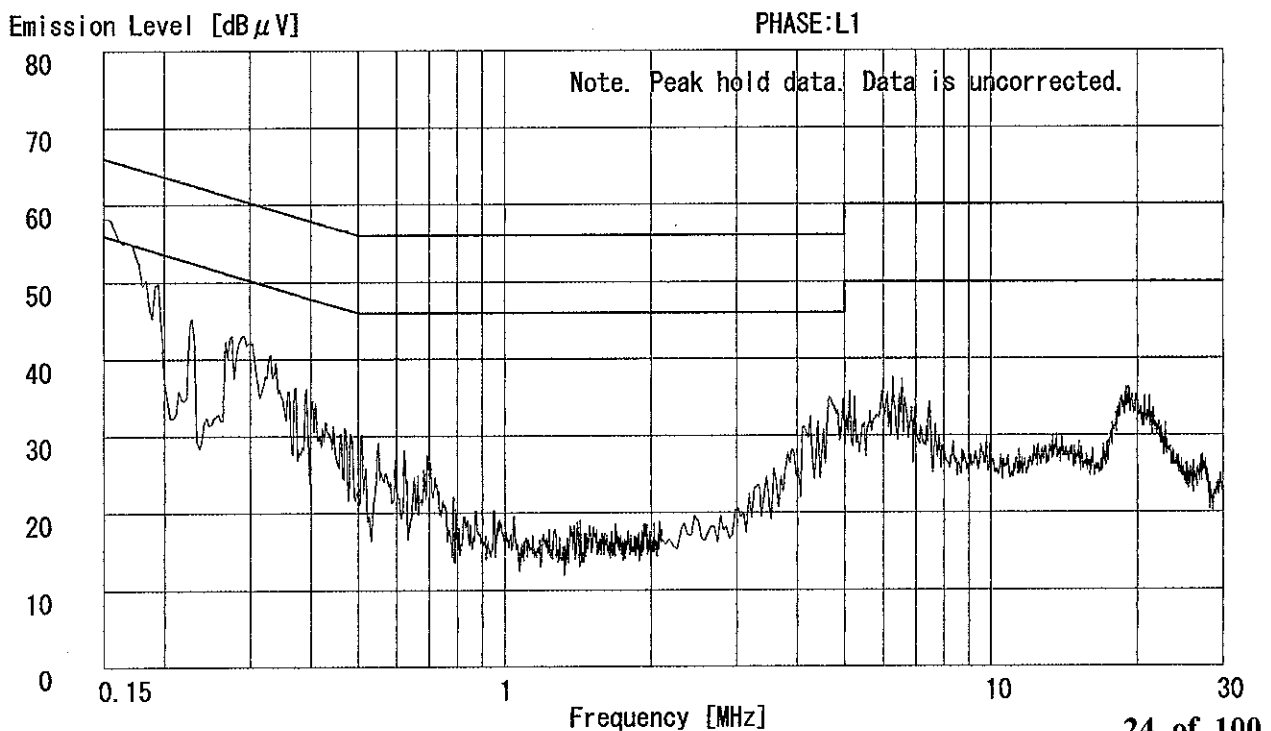
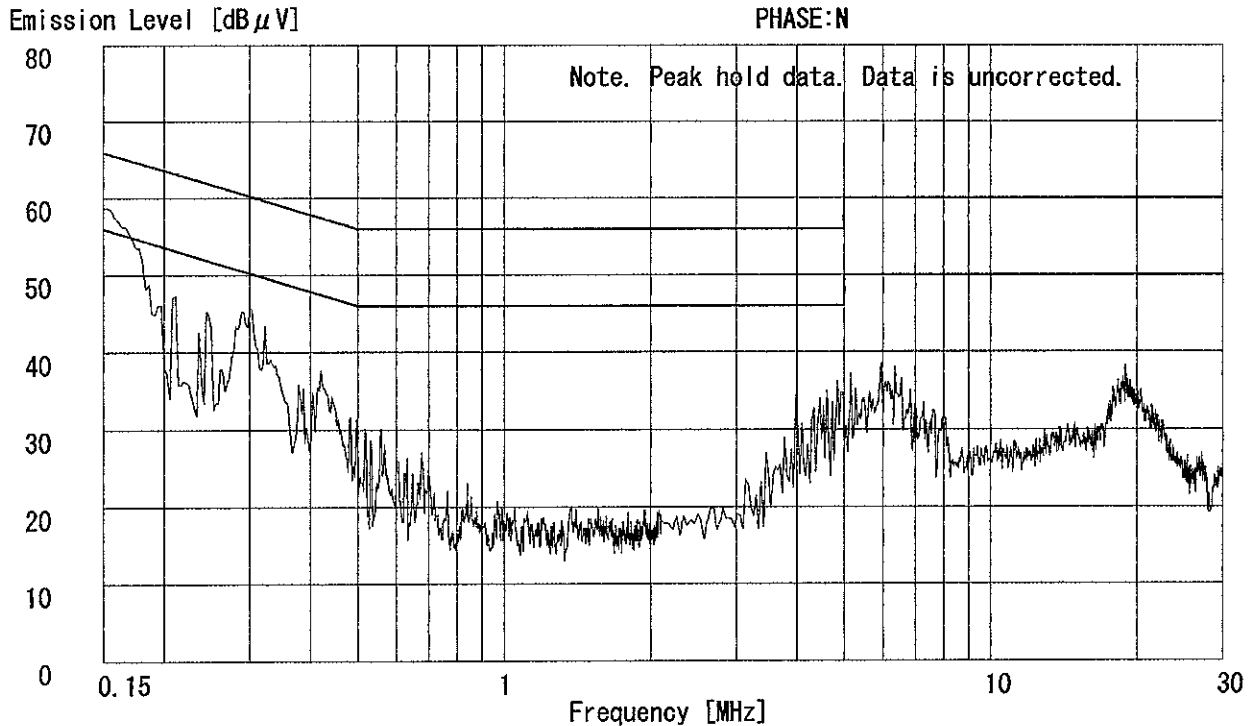
UL Apex Co.,Ltd.

Yamakita No.2 Shielded Room

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2462MHz)
Remarks : IEEE802.11b (11Mbps)+Bluetooth (Hopping)
Date : 4/12/2004
Temperature : 21 °C
Humidity : 52 %
Regulation 1 : FCC Part15C § 15.207. (CISPR Pub. 22)
Regulation 2 : None

Engineer : Toyokazu Imamura



DATA OF CONDUCTION TEST

UL Apex Co.,Ltd.
Yamakita No.2 Shielded Room
Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2412MHz)
Remarks : IEEE802.11g (54Mbps) + Bluetooth (Hopping)
Date : 4/12/2004
Phase : Single Phase
Temperature : 21 °C
Humidity : 52 %
Regulation : FCC Part15C §15.207. (CISPR Pub.22)

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	READING (N)		READING (L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB μV]	AV [dB μV]	QP [dB μV]	AV [dB μV]				QP [dB]	AV [dB μV]	QP [dB μV]	AV [dB μV]	QP [dB μV]	AV [dB]
1.	0.1500	48.9	31.1	48.0	31.0	0.1	0.2	0.0	49.2	31.4	66.0	56.0	16.8	24.6
2.	0.2880	45.0	29.5	43.1	29.5	0.1	0.2	0.0	45.3	29.8	60.6	50.6	15.3	20.8
3.	0.4231	37.1	26.4	36.7	26.0	0.1	0.3	0.0	37.5	26.8	57.4	47.4	19.9	20.6
4.	0.5691	27.1	23.8	27.9	23.2	0.1	0.3	0.0	28.3	24.2	56.0	46.0	27.7	21.8
5.	5.9357	34.3	21.7	31.6	19.1	0.2	0.4	0.0	34.9	22.3	60.0	50.0	25.1	27.7
6.	22.0000	24.9	18.3	25.4	19.0	1.0	0.6	0.0	27.0	20.6	60.0	50.0	33.0	29.4

CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

■ LISN : KLS-06 (NSLK8127) ■ COAXIAL CABLE : KCC-33/34
■ EMI RECEIVER : KTR-01 (ES140)

DATA OF CONDUCTION TEST CHART

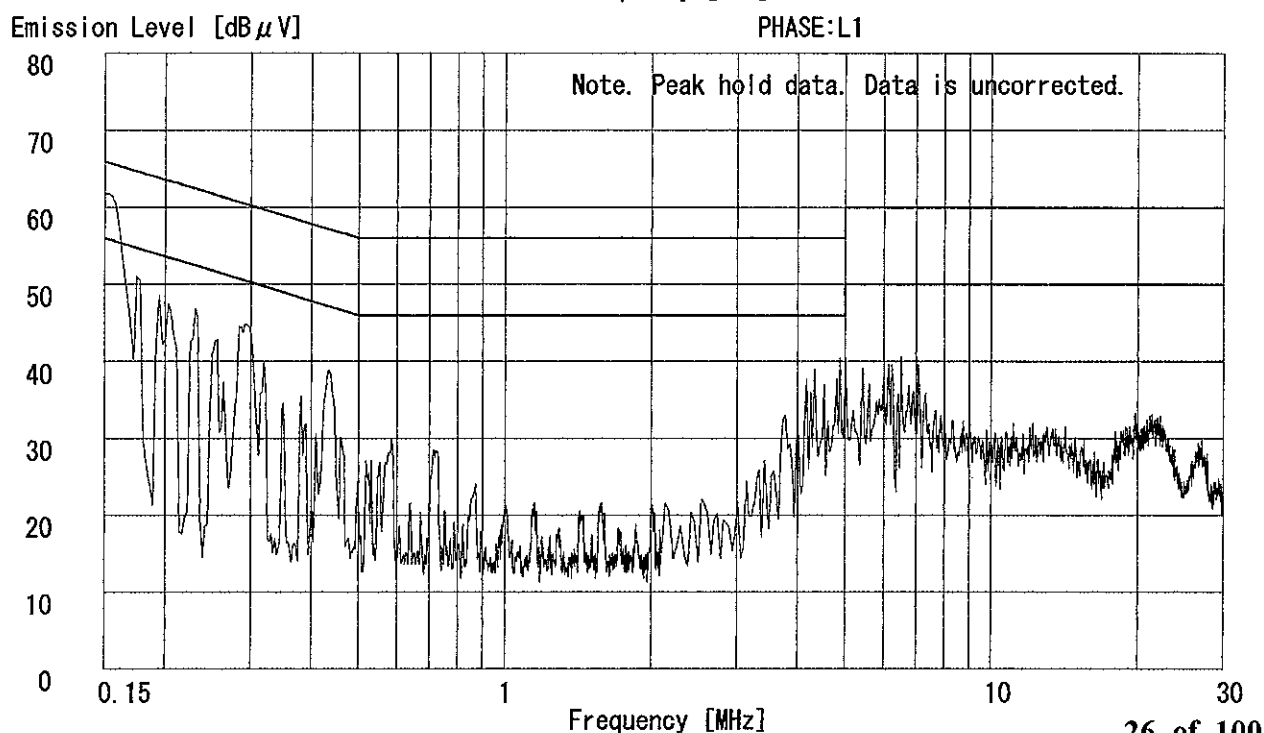
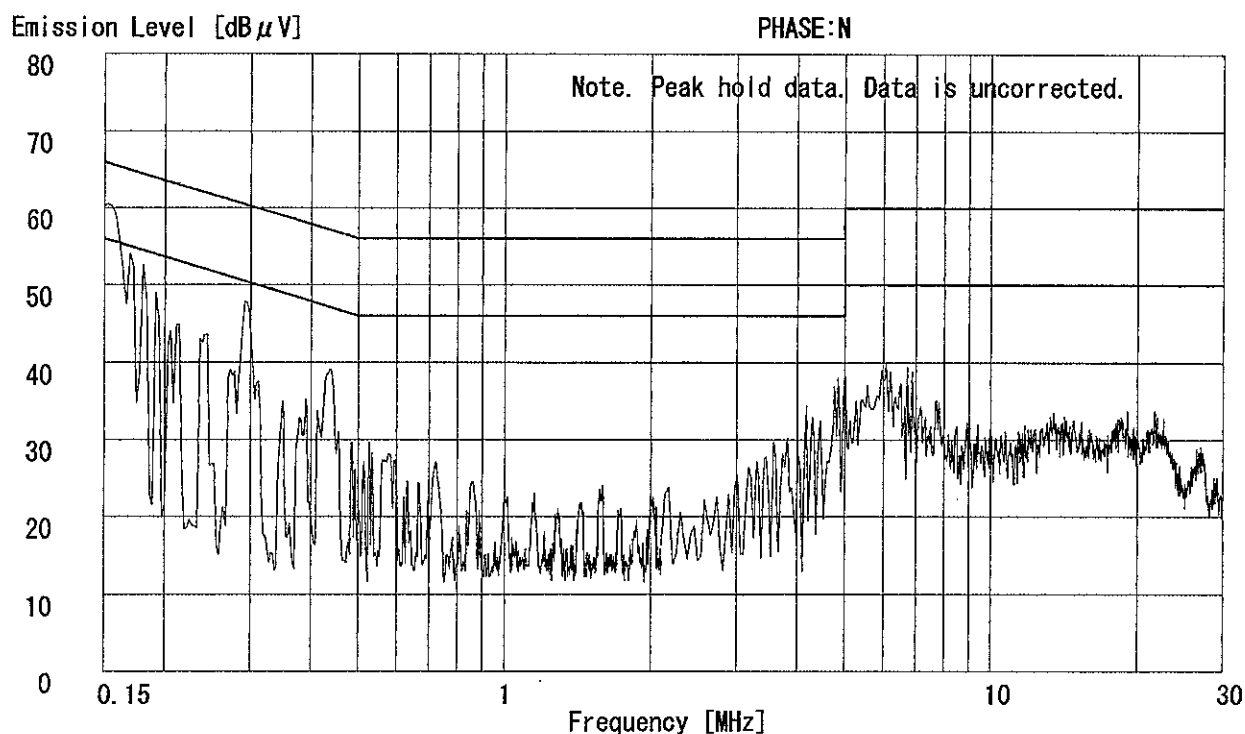
UL Apex Co.,Ltd.

Yamakita No.2 Shielded Room

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2412MHz)
Remarks : IEEE802.11g (54Mbps) + Bluetooth (Hopping)
Date : 4/12/2004
Temperature : 21 °C
Humidity : 52 %
Regulation 1 : FCC Part15C § 15.207. (CISPR Pub.22)
Regulation 2 : None

Engineer : Toyokazu Imamura



DATA OF CONDUCTION TEST CHART

UL Apex Co.,Ltd.

Yamakita No.2 Shielded Room

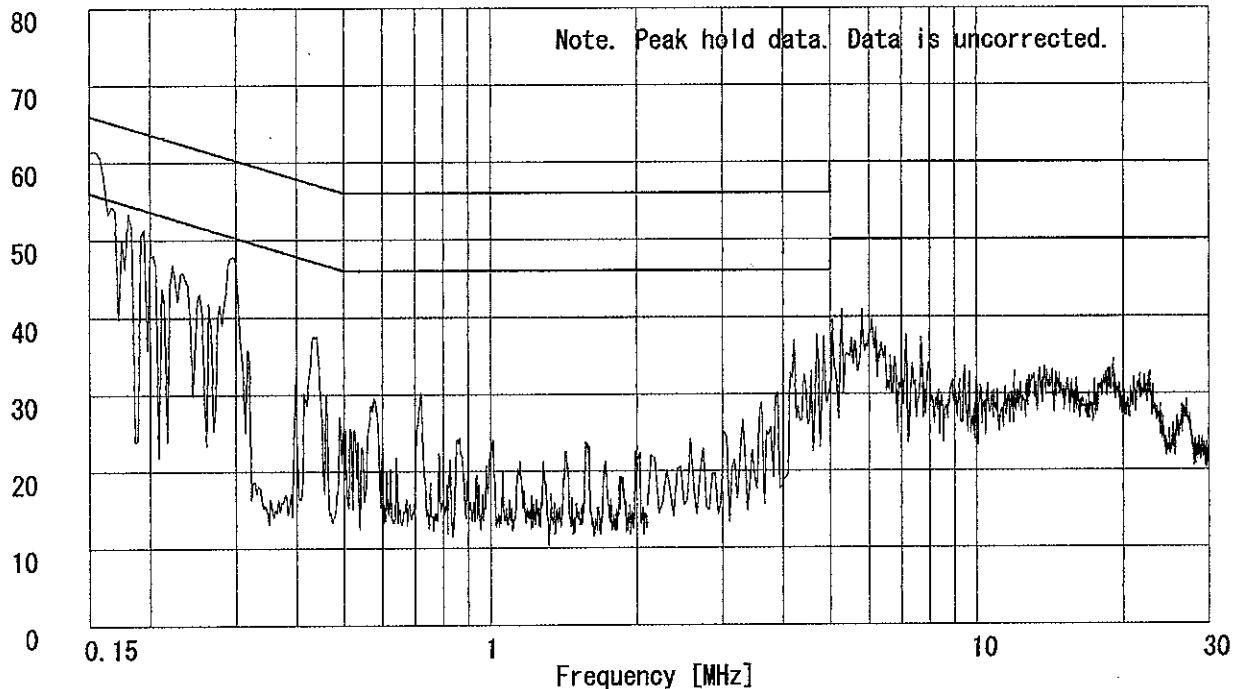
Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2437MHz)
Remarks : IEEE802.11g (54Mbps) + Bluetooth (Hopping)
Date : 4/12/2004
Temperature : 21 °C
Humidity : 52 %
Regulation 1 : FCC Part15C § 15.207. (CISPR Pub.22)
Regulation 2 : None

Engineer : Toyokazu Imamura

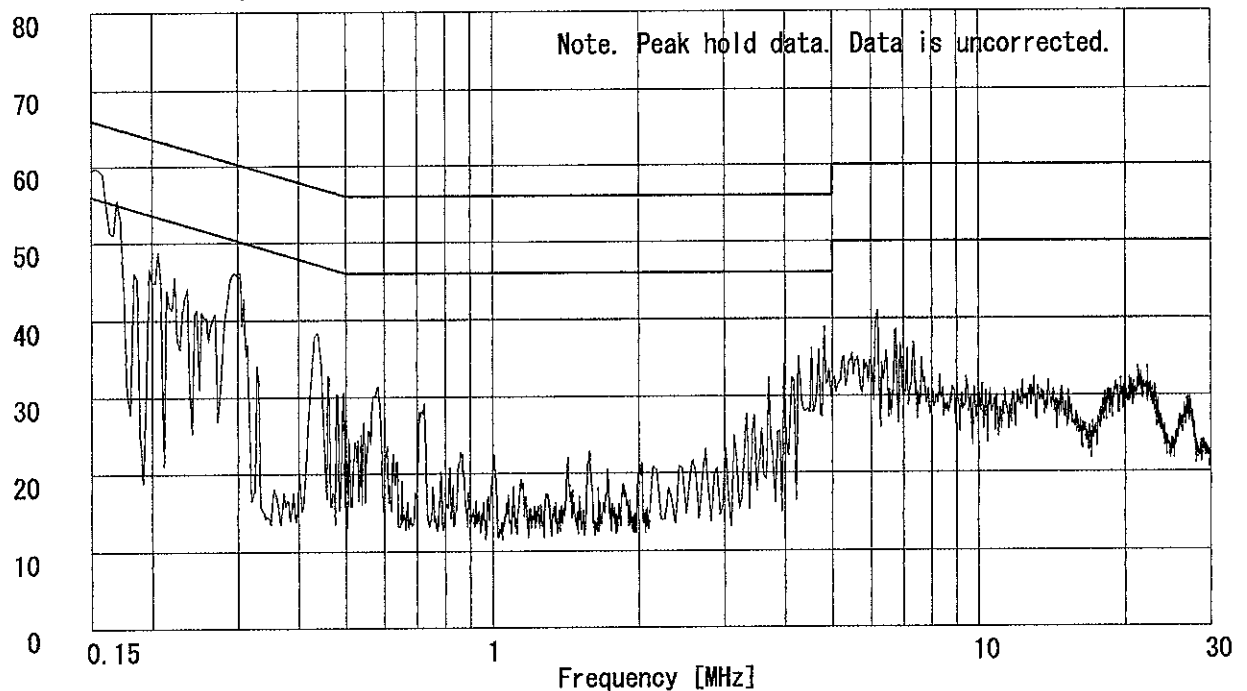
Emission Level [dB μ V]

PHASE:N



Emission Level [dB μ V]

PHASE:L1



DATA OF CONDUCTION TEST CHART

UL Apex Co.,Ltd.

Yamakita No.2 Shielded Room

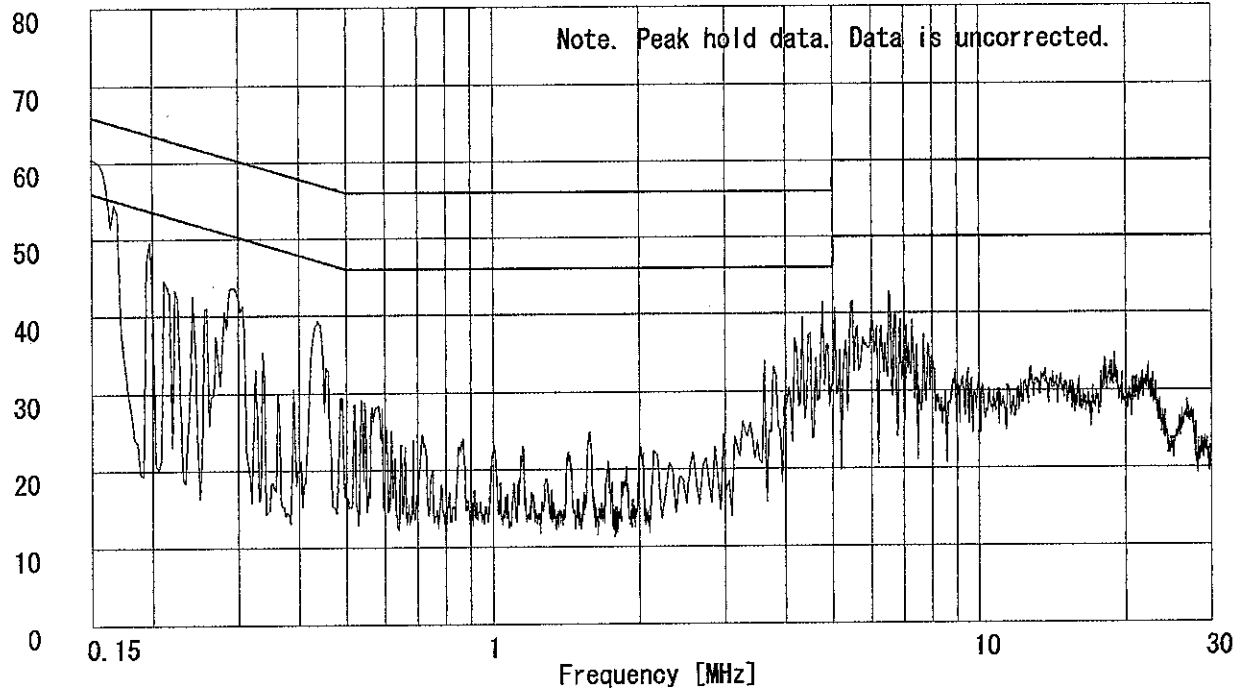
Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2462MHz)
Remarks : IEEE802.11g (54Mbps)+Bluetooth (Hopping)
Date : 4/12/2004
Temperature : 21 °C
Humidity : 52 %
Regulation 1 : FCC Part15C § 15.207. (CISPR Pub. 22)
Regulation 2 : None

Engineer : Toyokazu Imamura

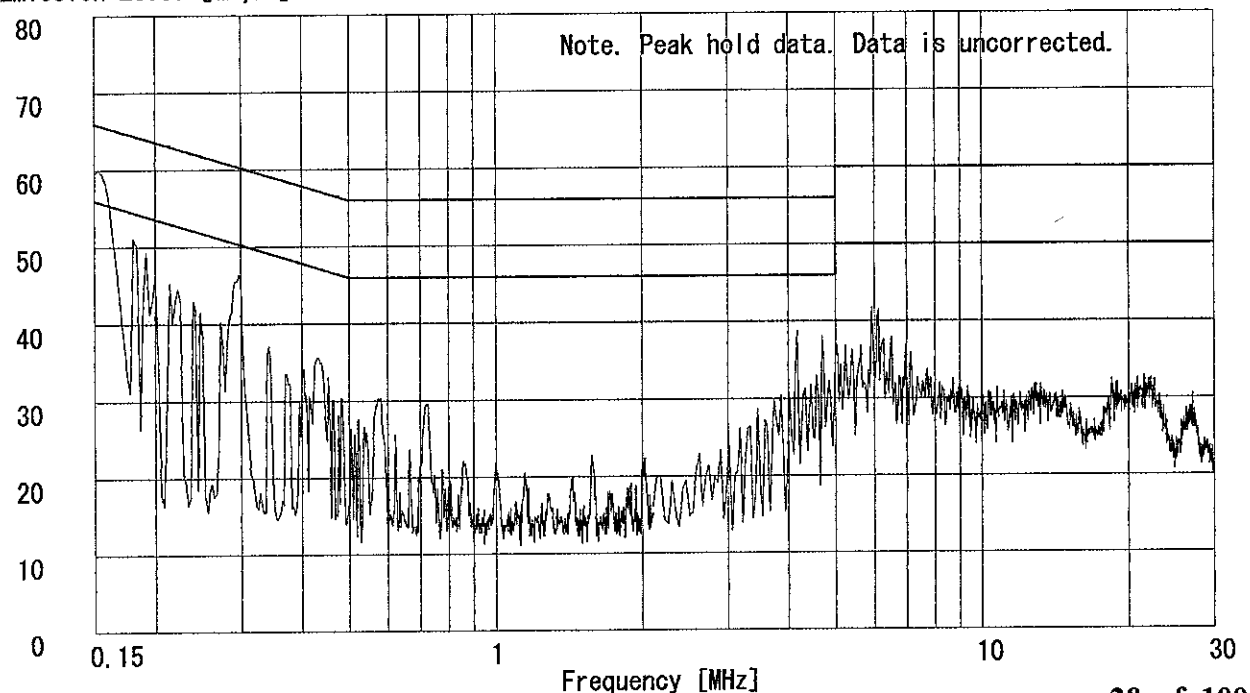
Emission Level [dB μ V]

PHASE:N



Emission Level [dB μ V]

PHASE:L1



6dB Bandwidth: FCC 15.247(a)

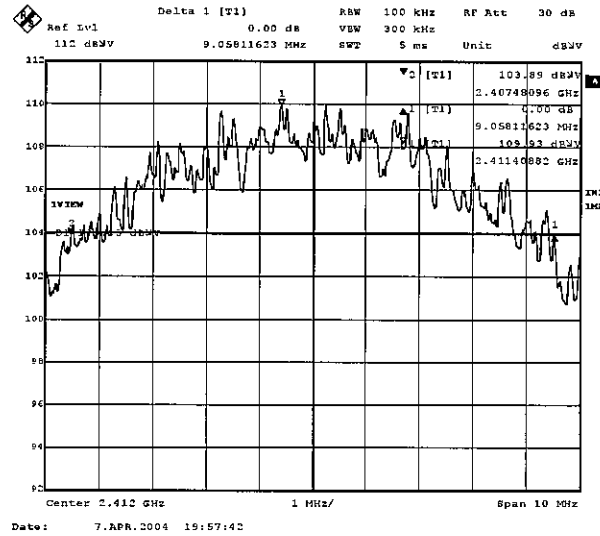
FCC ID: AK8PCG6C1L

Test Report No.: 24GE0260-YK-1

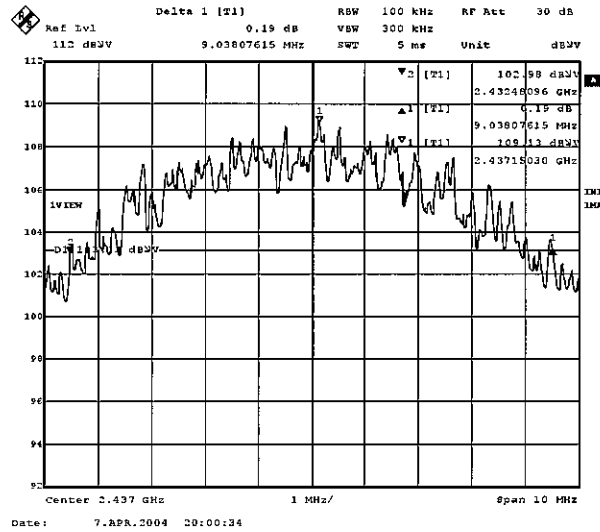
[IEEE802.11b Main Antenna Terminal]

1. Ch Low:2412MHz

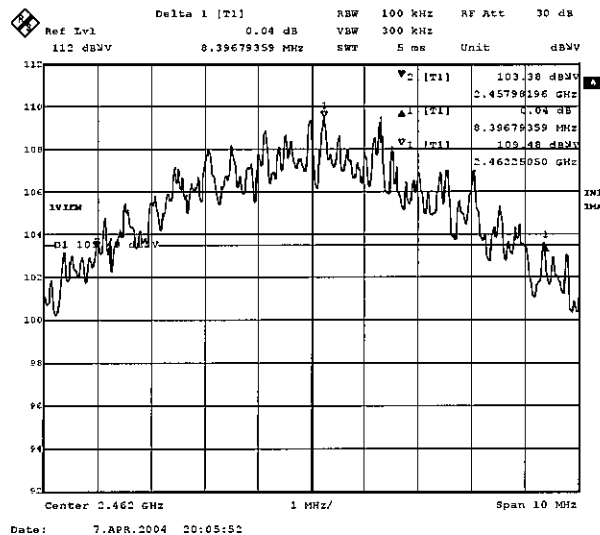
T. Amomina



2. Ch Mid:2437MHz

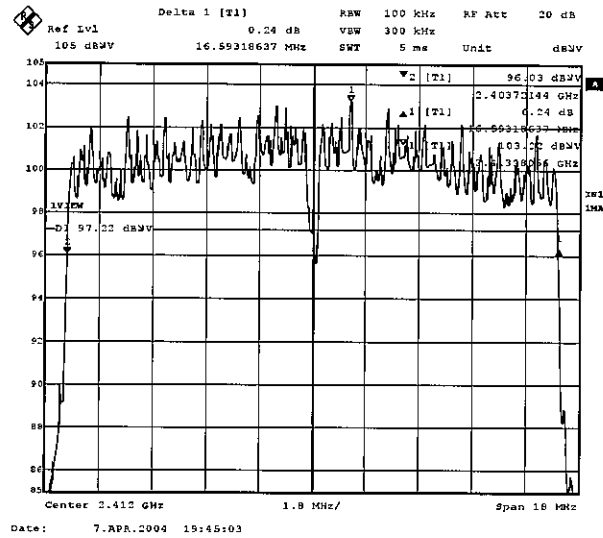


3. Ch High:2462MHz

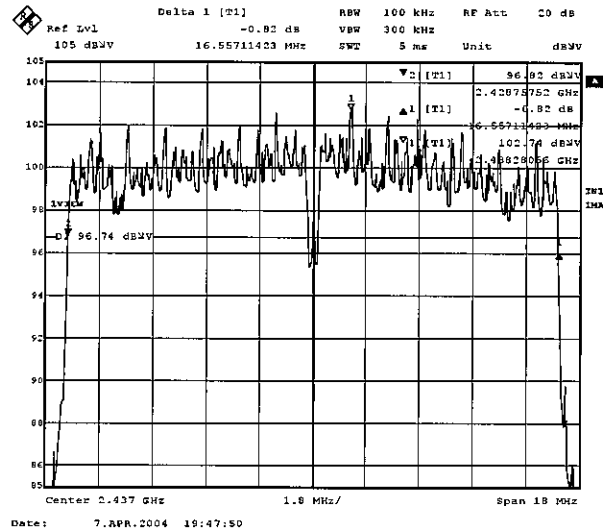


[IEEE802.11g Main Antenna Terminal]

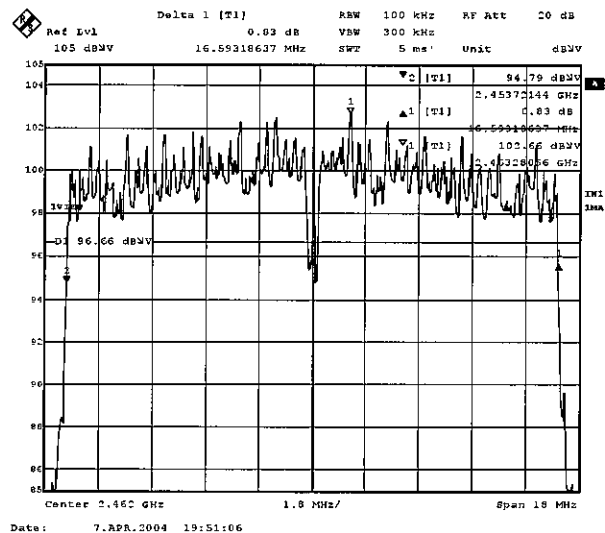
1. Ch Low:2412MHz



2. Ch Mid:2437MHz



3. Ch High:2462MHz



Peak Output Power (Conducted)

UL Apex Co., Ltd

YAMAKITA NO. 4 Shielded Room

COMPANY : SONY Corporation.

EQUIPMENT : Notebook Personal Computer

MODEL : PCG-6C1L

FCC ID : AK8PCG6C1L

POWER : AC120V/60Hz

Mode : Transmitting

REPORT NO : 24GE0260-YK-1

REGULATION : Fcc Part15SubpartC 247(b) (1)

DATE : 2004/ 04/06

Temp. /Humi. : 23°C/44%

ENGINEER : Toyokazu Imamura

IEEE802.11b (11Mbps) Main Antenna Terminal

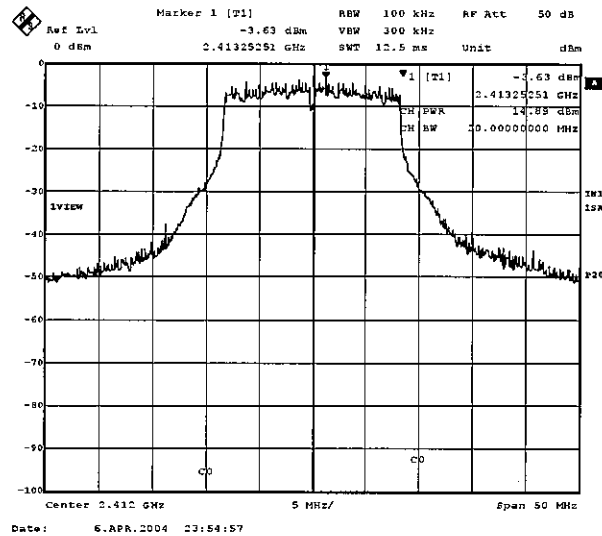
CH	FREQ [GHz]	PM Reading [dBm]	Cable Loss [dB]	Results [dBm]	Limit (1W) [dBm]	MARGIN [dB]
Low	2412.00	16.00	0.78	16.78	30.0	13.22
Mid	2437.00	15.17	0.66	15.83	30.0	14.17
High	2462.00	15.00	0.79	15.79	30.0	14.21

IEEE802.11g (54Mbps) Main Antenna Terminal

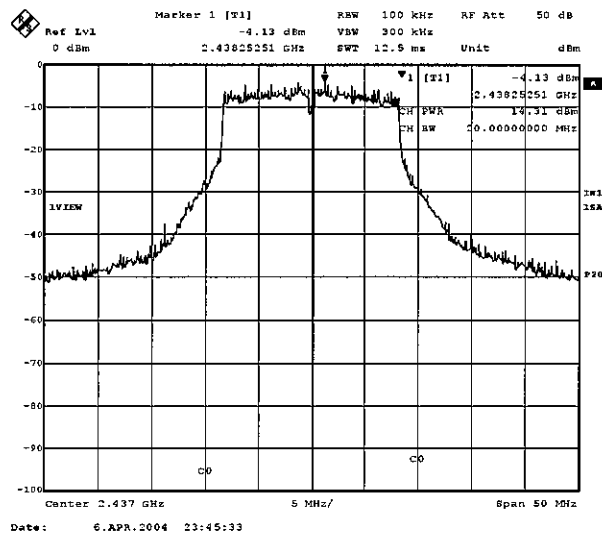
CH	FREQ [GHz]	S/A (PK) Reading [dBm]	Cable Loss [dB]	Results [dBm]	Limit (1W) [dBm]	MARGIN [dB]
Low	2412.00	14.89	1.28	16.17	30.0	13.83
Mid	2437.00	14.31	1.16	15.47	30.0	14.53
High	2462.00	14.08	1.29	15.37	30.0	14.63

IEEE802.11g Main Antenna Terminal Spectrum Analyzer data

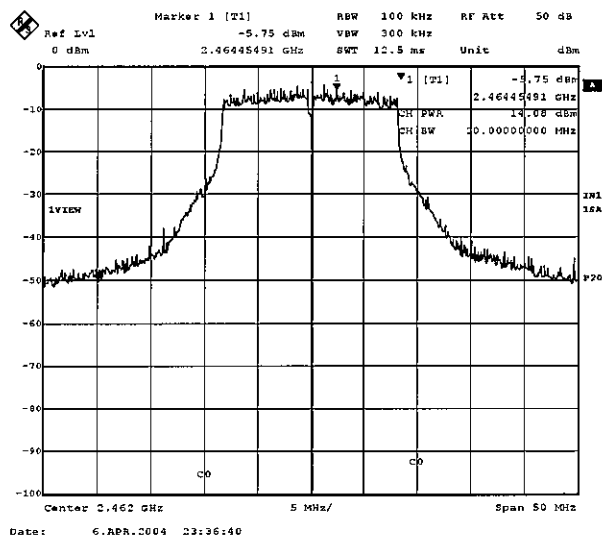
1. Ch Low:2412MHz



2. Ch Mid:2437MHz



3. Ch High:2462MHz



DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting(2412MHz)
Remarks : IEEE802.11b(11Mbps)
Date : 4/5/2004
Test Distance : 3 m
Temperature : 24 °C
Humidity : 32 %
Regulation : FCC Part15C § 15.209

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	340.01	BB	34.2	32.9	15.6	27.9	3.7	6.1	31.7	30.4	46.0	14.3	15.6
2.	510.25	BB	30.3	31.1	18.3	29.1	4.6	6.1	30.2	31.0	46.0	15.8	15.0
3.	542.41	BB	29.0	30.9	18.8	29.1	4.8	6.1	29.6	31.5	46.0	16.4	14.5
4.	580.51	BB	31.2	33.0	19.5	29.1	5.0	6.1	32.7	34.5	46.0	13.3	11.5
5.	745.81	BB	26.4	26.5	21.1	29.0	5.7	6.1	30.3	30.4	46.0	15.7	15.6
6.	760.00	BB	27.2	28.2	21.3	29.0	5.7	6.1	31.3	32.3	46.0	14.7	13.7
7.	800.01	BB	35.8	32.2	21.8	29.0	5.9	6.1	40.6	37.0	46.0	5.4	9.0

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz/KLA-03 (USLP9143) 300-1000MHz

■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-05 (8447D) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting(2437MHz)
Remarks : IEEE802.11b(11Mbps)
Date : 4/5/2004
Test Distance : 3 m
Temperature : 24 °C
Humidity : 32 %
Regulation : FCC Part15C §15.209

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	340.01	BB	34.2	32.6	15.6	27.9	3.7	6.1	31.7	30.1	46.0	14.3	15.9
2.	510.01	BB	31.0	32.1	18.3	29.1	4.6	6.1	30.9	32.0	46.0	15.1	14.0
3.	542.42	BB	30.7	31.2	18.8	29.1	4.8	6.1	31.3	31.8	46.0	14.7	14.2
4.	580.50	BB	31.2	33.5	19.5	29.1	5.0	6.1	32.7	35.0	46.0	13.3	11.0
5.	745.83	BB	27.4	28.5	21.1	29.0	5.7	6.1	31.3	32.4	46.0	14.7	13.6
6.	760.00	BB	27.2	28.2	21.3	29.0	5.7	6.1	31.3	32.3	46.0	14.7	13.7
7.	800.01	BB	36.0	32.2	21.8	29.0	5.9	6.1	40.8	37.0	46.0	5.2	9.0

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz/KLA-03 (USLP9143) 300-1000MHz

■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-05 (8447D) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting(2462MHz)
Remarks : IEEE802.11b(11Mbps)
Date : 4/10/2004
Test Distance : 3 m
Temperature : 19 °C
Humidity : 45 %
Regulation : FCC Part15C §15.209

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	340.01	BB	33.7	33.1	15.6	27.9	3.7	6.1	31.2	30.6	46.0	14.8	15.4
2.	510.25	BB	26.6	29.9	18.3	29.1	4.6	6.1	26.5	29.8	46.0	19.5	16.2
3.	542.41	BB	27.9	29.5	18.8	29.1	4.8	6.1	28.5	30.1	46.0	17.5	15.9
4.	580.50	BB	29.4	29.2	19.5	29.1	5.0	6.1	30.9	30.7	46.0	15.1	15.3
5.	745.81	BB	27.0	26.1	21.1	29.0	5.7	6.1	30.9	30.0	46.0	15.1	16.0
6.	760.00	BB	27.5	26.4	21.3	29.0	5.7	6.1	31.6	30.5	46.0	14.4	15.5
7.	800.01	BB	34.5	29.7	21.8	29.0	5.9	6.1	39.3	34.5	46.0	6.7	11.5

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz / KLA-03 (USLP9143) 300-1000MHz

■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-05 (8447D) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2412MHz)
Remarks : IEEE802.11g (54Mbps)
Date : 4/5/2004
Test Distance : 3 m
Temperature : 24 °C
Humidity : 32 %
Regulation : FCC Part15C § 15.209

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	340.01	BB	34.5	32.9	15.6	27.9	3.7	6.1	32.0	30.4	46.0	14.0	15.6
2.	510.24	BB	23.1	31.0	18.3	29.1	4.6	6.1	23.0	30.9	46.0	23.0	15.1
3.	542.42	BB	30.9	31.0	18.8	29.1	4.8	6.1	31.5	31.6	46.0	14.5	14.4
4.	580.51	BB	31.0	33.1	19.5	29.1	5.0	6.1	32.5	34.6	46.0	13.5	11.4
5.	745.82	BB	27.3	28.4	21.1	29.0	5.7	6.1	31.2	32.3	46.0	14.8	13.7
6.	760.01	BB	28.2	29.0	21.3	29.0	5.7	6.1	32.3	33.1	46.0	13.7	12.9
7.	800.01	BB	36.7	32.7	21.8	29.0	5.9	6.1	41.5	37.5	46.0	4.5	8.5

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz/KLA-03 (USLP9143) 300-1000MHz

■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-05 (8447D) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.
Yamakita No.1 Anechoic Chamber
Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting(2437MHz)
Remarks : IEEE802.11g(54Mbps)
Date : 4/5/2004
Test Distance : 3 m
Temperature : 24 °C
Humidity : 32 %
Regulation : FCC Part15C §15.209

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	340.01	BB	34.3	32.8	15.6	27.9	3.7	6.1	31.8	30.3	46.0	14.2	15.7
2.	510.24	BB	29.8	31.3	18.3	29.1	4.6	6.1	29.7	31.2	46.0	16.3	14.8
3.	542.42	BB	30.7	30.7	18.8	29.1	4.8	6.1	31.3	31.3	46.0	14.7	14.7
4.	580.51	BB	30.6	32.7	19.5	29.1	5.0	6.1	32.1	34.2	46.0	13.9	11.8
5.	745.83	BB	27.0	28.2	21.1	29.0	5.7	6.1	30.9	32.1	46.0	15.1	13.9
6.	760.01	BB	27.6	28.3	21.3	29.0	5.7	6.1	31.7	32.4	46.0	14.3	13.6
7.	800.01	BB	36.1	32.3	21.8	29.0	5.9	6.1	40.9	37.1	46.0	5.1	8.9

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz/KLA-03 (USLP9143) 300-1000MHz
■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-05 (8447D) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting(2462MHz)
Remarks : IEEE802.11g(54Mbps)
Date : 4/5/2004
Test Distance : 3 m
Temperature : 24 °C
Humidity : 32 %
Regulation : FCC Part15C §15.209

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	339.00	BB	34.8	34.4	15.6	27.9	3.7	6.1	32.3	31.9	46.0	13.7	14.1
2.	510.26	BB	30.8	31.1	18.3	29.1	4.6	6.1	30.7	31.0	46.0	15.3	15.0
3.	542.41	BB	30.7	30.5	18.8	29.1	4.8	6.1	31.3	31.1	46.0	14.7	14.9
4.	580.51	BB	31.0	32.7	19.5	29.1	5.0	6.1	32.5	34.2	46.0	13.5	11.8
5.	745.83	BB	27.1	27.1	21.1	29.0	5.7	6.1	31.0	31.0	46.0	15.0	15.0
6.	760.00	BB	28.0	28.6	21.3	29.0	5.7	6.1	32.1	32.7	46.0	13.9	13.3
7.	800.01	BB	36.7	31.2	21.8	29.0	5.9	6.1	41.5	36.0	46.0	4.5	10.0

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz / KLA-03 (USLP9143) 300-1000MHz

■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-05 (8447D) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2462MHz)
Remarks : IEEE802.11b (11Mbps) + Bluetooth (Hopping)
Date : 4/10/2004
Test Distance : 3 m
Temperature : 19 °C
Humidity : 45 %
Regulation : FCC Part15C § 15.209
Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	340.01	BB	33.4	32.6	15.6	27.9	3.7	6.1	30.9	30.1	46.0	15.1	15.9
2.	510.00	BB	27.1	29.6	18.3	29.1	4.6	6.1	27.0	29.5	46.0	19.0	16.5
3.	542.41	BB	27.7	29.6	18.8	29.1	4.8	6.1	28.3	30.2	46.0	17.7	15.8
4.	580.54	BB	29.6	30.1	19.5	29.1	5.0	6.1	31.1	31.6	46.0	14.9	14.4
5.	745.82	BB	26.3	27.0	21.1	29.0	5.7	6.1	30.2	30.9	46.0	15.8	15.1
6.	760.00	BB	26.3	26.4	21.3	29.0	5.7	6.1	30.4	30.5	46.0	15.6	15.5
7.	800.01	BB	33.0	29.3	21.8	29.0	5.9	6.1	37.8	34.1	46.0	8.2	11.9

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz / KLA-03 (USLP9143) 300-1000MHz

■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-05 (8447D) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2412MHz)
Remarks : IEEE802.11b (11Mbps) + Bluetooth (Hopping)
Date : 4/10/2004
Test Distance : 3 m
Temperature : 19 °C
Humidity : 45 %
Regulation : FCC Part15C § 15.209

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	339.99	BB	33.8	32.7	15.6	27.9	3.7	6.1	31.3	30.2	46.0	14.7	15.8
2.	510.03	BB	27.7	29.4	18.3	29.1	4.6	6.1	27.6	29.3	46.0	18.4	16.7
3.	542.41	BB	27.9	28.1	18.8	29.1	4.8	6.1	28.5	28.7	46.0	17.5	17.3
4.	580.49	BB	29.2	29.9	19.5	29.1	5.0	6.1	30.7	31.4	46.0	15.3	14.6
5.	745.81	BB	26.2	26.0	21.1	29.0	5.7	6.1	30.1	29.9	46.0	15.9	16.1
6.	760.00	BB	25.2	25.6	21.3	29.0	5.7	6.1	29.3	29.7	46.0	16.7	16.3
7.	800.01	BB	33.9	30.5	21.8	29.0	5.9	6.1	38.7	35.3	46.0	7.3	10.7

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz / KLA-03 (USLP9143) 300-1000MHz

■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-05 (8447D) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant	: Sony Corporation		
Kind of Equipment	: Notebook personal Computer		
Model No.	: PCG-6C1L		
Serial No.	: XTA004		
Power	: AC120V/60Hz		
Mode	: Transmitting(2437MHz)		
Remarks	: IEEE802.11b(11Mbps)+Bluetooth(Hopping)		
Date	: 4/10/2004		
Test Distance	: 3 m		
Temperature	: 19 °C	Engineer	: Toyokazu Imamura
Humidity	: 45 %		
Regulation	: FCC Part15C § 15.209		

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	340.00	BB	34.0	32.6	15.6	27.9	3.7	6.1	31.5	30.1	46.0	14.5	15.9
2.	510.05	BB	27.0	29.4	18.3	29.1	4.6	6.1	26.9	29.3	46.0	19.1	16.7
3.	542.41	BB	28.6	28.9	18.8	29.1	4.8	6.1	29.2	29.5	46.0	16.8	16.5
4.	580.50	BB	29.5	30.8	19.5	29.1	5.0	6.1	31.0	32.3	46.0	15.0	13.7
5.	745.81	BB	26.2	26.3	21.1	29.0	5.7	6.1	30.1	30.2	46.0	15.9	15.8
6.	760.00	BB	26.5	26.0	21.3	29.0	5.7	6.1	30.6	30.1	46.0	15.4	15.9
7.	800.01	BB	34.5	29.0	21.8	29.0	5.9	6.1	39.3	33.8	46.0	6.7	12.2

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz/KLA-03 (USLP9143) 300-1000MHz

■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-05 (8447D) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2412MHz)
Remarks : IEEE802.11g (54Mbps) + Bluetooth (Hopping)
Date : 4/10/2004
Test Distance : 3 m
Temperature : 19 °C
Humidity : 45 %
Regulation : FCC Part15C § 15.209

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR	AMP GAIN	CABLE LOSS	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB/m]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	340.01	BB	34.2	33.0	15.6	27.9	3.7	6.1	31.7	30.5	46.0	14.3	15.5
2.	510.00	BB	27.3	29.3	18.3	29.1	4.6	6.1	27.2	29.2	46.0	18.8	16.8
3.	542.41	BB	28.3	28.5	18.8	29.1	4.8	6.1	28.9	29.1	46.0	17.1	16.9
4.	580.50	BB	29.3	30.8	19.5	29.1	5.0	6.1	30.8	32.3	46.0	15.2	13.7
5.	745.82	BB	26.0	26.7	21.1	29.0	5.7	6.1	29.9	30.6	46.0	16.1	15.4
6.	760.00	BB	26.2	25.5	21.3	29.0	5.7	6.1	30.3	29.6	46.0	15.7	16.4
7.	800.00	BB	34.5	30.6	21.8	29.0	5.9	6.1	39.3	35.4	46.0	6.7	10.6

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz / KLA-03 (USLP9143) 300-1000MHz

■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-05 (8447D) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.
Yamakita No.1 Anechoic Chamber
Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2437MHz)
Remarks : IEEE802.11g (54Mbps)+Bluetooth (Hopping)
Date : 4/10/2004
Test Distance : 3 m
Temperature : 19 °C
Humidity : 45 %
Regulation : FCC Part15C § 15.209

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	340.00	BB	34.1	33.0	15.6	27.9	3.7	6.1	31.6	30.5	46.0	14.4	15.5
2.	510.00	BB	27.4	29.6	18.3	29.1	4.6	6.1	27.3	29.5	46.0	18.7	16.5
3.	542.40	BB	27.9	28.5	18.8	29.1	4.8	6.1	28.5	29.1	46.0	17.5	16.9
4.	580.50	BB	29.3	30.7	19.5	29.1	5.0	6.1	30.8	32.2	46.0	15.2	13.8
5.	745.82	BB	25.7	27.0	21.1	29.0	5.7	6.1	29.6	30.9	46.0	16.4	15.1
6.	760.01	BB	25.8	25.5	21.3	29.0	5.7	6.1	29.9	29.6	46.0	16.1	16.4
7.	800.01	BB	34.0	31.1	21.8	29.0	5.9	6.1	38.8	35.9	46.0	7.2	10.1

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz/KLA-03 (USLP9143) 300-1000MHz
■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-05 (8447D) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting(2462MHz)
Remarks : IEEE802.11g(54Mbps)+Bluetooth(Hopping)
Date : 4/10/2004
Test Distance : 3 m
Temperature : 19 °C
Humidity : 45 %
Regulation : FCC Part15C § 15.209

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	340.00	BB	33.7	33.0	15.6	27.9	3.7	6.1	31.2	30.5	46.0	14.8	15.5
2.	510.00	BB	27.7	29.8	18.3	29.1	4.6	6.1	27.6	29.7	46.0	18.4	16.3
3.	542.41	BB	27.9	28.0	18.8	29.1	4.8	6.1	28.5	28.6	46.0	17.5	17.4
4.	580.50	BB	29.5	30.7	19.5	29.1	5.0	6.1	31.0	32.2	46.0	15.0	13.8
5.	745.82	BB	26.1	27.0	21.1	29.0	5.7	6.1	30.0	30.9	46.0	16.0	15.1
6.	760.00	BB	25.5	25.4	21.3	29.0	5.7	6.1	29.6	29.5	46.0	16.4	16.5
7.	800.00	BB	34.3	31.1	21.8	29.0	5.9	6.1	39.1	35.9	46.0	6.9	10.1

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KBA-03 (BBA9106) 30-299.99MHz/KLA-03 (USLP9143) 300-1000MHz

■ CABLE: KCC-30/31/32/34 ■ PREAMP: KAF-05 (8447D) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.
Yamakita No.1 Anechoic Chamber
Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2412MHz)
Remarks : IEEE802.11b (11Mbps)
Date : 4/1/2004
Test Distance : 3 m
Temperature : 24 °C
Humidity : 39 %
Regulation : FCC Part15C § 15.209 (PK Detection)

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	2384.53	BB	50.0	47.5	30.6	36.9	4.1	10.0	57.8	55.3	74.0	16.2	18.7
2.	2390.00	BB	48.0	45.6	30.6	36.9	4.1	10.0	55.8	53.4	74.0	18.2	20.6
3.	4824.00	BB	44.8	44.5	35.3	35.2	5.6	0.6	51.1	50.8	74.0	22.9	23.2
4.	7236.00	BB	45.9	45.5	38.3	36.8	6.5	0.5	54.4	54.0	74.0	19.6	20.0
5.	9648.00	BB	46.2	45.9	39.1	36.9	7.2	0.5	56.1	55.8	74.0	17.9	18.2
6.	12060.00	BB	45.4	45.5	43.4	36.3	8.1	0.5	61.1	61.2	74.0	12.9	12.8
7.	14472.00	BB	45.1	44.8	42.6	35.2	7.3	0.2	60.0	59.7	74.0	14.0	14.3
8.	16884.00	BB	45.2	46.0	43.0	35.0	8.8	0.5	62.5	63.3	74.0	11.5	10.7
9.	19296.00	BB	44.8	45.2	39.1	34.7	9.4	0.0	58.6	59.0	74.0	15.4	15.0
10.	21708.00	BB	45.2	45.8	39.2	34.3	9.9	0.0	60.0	60.6	74.0	14.0	13.4
11.	24120.00	BB	45.2	45.8	40.3	35.5	10.9	0.0	60.9	61.5	74.0	13.1	12.5

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz / KHA-03 (3160-09) 18-26GHz
■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-02 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.
Yamakita No.1 Anechoic Chamber
Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2412MHz)
Remarks : IEEE802.11b (11Mbps)
Date : 4/2/2004
Test Distance : 3 m
Temperature : 22 °C
Humidity : 43 %
Regulation : FCC Part15C § 15.209 (AV Detection)

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	2384.53	BB	35.4	33.8	30.6	36.9	4.1	10.0	43.2	41.6	54.0	10.8	12.4
2.	2390.00	BB	36.0	34.1	30.6	36.9	4.1	10.0	43.8	41.9	54.0	10.2	12.1
3.	4824.00	BB	31.3	31.5	35.3	35.2	5.6	0.6	37.6	37.8	54.0	16.4	16.2
4.	7236.00	BB	32.9	32.9	38.3	36.8	6.5	0.5	41.4	41.4	54.0	12.6	12.6
5.	9648.00	BB	33.2	33.3	39.1	36.9	7.2	0.5	43.1	43.2	54.0	10.9	10.8
6.	12060.00	BB	32.5	32.5	43.4	36.3	8.1	0.5	48.2	48.2	54.0	5.8	5.8
7.	14472.00	BB	31.9	31.9	42.6	35.2	7.3	0.2	46.8	46.8	54.0	7.2	7.2
8.	16884.00	BB	32.4	32.4	43.0	35.0	8.8	0.5	49.7	49.7	54.0	4.3	4.3
9.	19296.00	BB	32.2	32.4	39.1	34.7	9.4	0.0	46.0	46.2	54.0	8.0	7.8
10.	21708.00	BB	32.7	32.8	39.2	34.3	9.9	0.0	47.5	47.6	54.0	6.5	6.4
11.	24120.00	BB	33.6	33.8	40.3	35.5	10.9	0.0	49.3	49.5	54.0	4.7	4.5

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz / KHA-03 (3160-09) 18-26GHz
■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-02 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
 Kind of Equipment : Notebook personal Computer
 Model No. : PCG-6C1L
 Serial No. : XTA004
 Power : AC120V/60Hz
 Mode : Transmitting (2437MHz)
 Remarks : IEEE802.11b (11Mbps)
 Date : 4/1/2004
 Test Distance : 3 m
 Temperature : 24 °C
 Humidity : 39 %
 Regulation : FCC Part15C § 15.209(PK Detection)

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	4874.00	BB	44.5	44.8	35.6	35.2	5.6	0.6	51.1	51.4	74.0	22.9	22.6
2.	7311.00	BB	45.2	45.2	38.4	36.8	6.6	0.5	53.9	53.9	74.0	20.1	20.1
3.	9748.00	BB	45.6	46.5	39.1	37.0	7.2	0.6	55.5	56.4	74.0	18.5	17.6
4.	12185.00	BB	45.4	45.2	43.3	36.1	8.1	0.4	61.1	60.9	74.0	12.9	13.1
5.	14622.00	BB	45.1	44.5	43.0	35.2	7.7	0.3	60.9	60.3	74.0	13.1	13.7
6.	17059.00	BB	44.9	45.2	43.3	34.9	8.7	0.5	62.5	62.8	74.0	11.5	11.2
7.	19496.00	BB	45.4	44.9	39.0	34.7	9.5	0.0	59.2	58.7	74.0	14.8	15.3
8.	21933.00	BB	46.5	46.3	39.3	33.6	10.2	0.0	62.4	62.2	74.0	11.6	11.8
9.	24370.00	BB	46.7	46.8	40.4	36.3	10.8	0.0	61.6	61.7	74.0	12.4	12.3

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz / KHA-03 (3160-09) 18-26GHz

■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-02 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.
Yamakita No.1 Anechoic Chamber
Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2437MHz)
Remarks : IEEE802.11b (11Mbps)
Date : 4/1/2004
Test Distance : 3 m
Temperature : 24 °C Engineer : Toyokazu Imamura
Humidity : 39 %
Regulation : FCC Part15C §15.209(AV Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	4874.00	BB	31.6	31.6	35.6	35.2	5.6	0.6	38.2	38.2	54.0	15.8	15.8
2.	7311.00	BB	32.8	32.8	38.4	36.8	6.6	0.5	41.5	41.5	54.0	12.5	12.5
3.	9748.00	BB	32.8	32.8	39.1	37.0	7.2	0.6	42.7	42.7	54.0	11.3	11.3
4.	12185.00	BB	32.5	32.5	43.3	36.1	8.1	0.4	48.2	48.2	54.0	5.8	5.8
5.	14622.00	BB	32.3	32.3	43.0	35.2	7.7	0.3	48.1	48.1	54.0	5.9	5.9
6.	17059.00	BB	32.2	32.2	43.3	34.9	8.7	0.5	49.8	49.8	54.0	4.2	4.2
7.	19496.00	BB	31.9	31.9	39.0	34.7	9.5	0.0	45.7	45.7	54.0	8.3	8.3
8.	21933.00	BB	33.4	33.6	39.3	33.6	10.2	0.0	49.3	49.5	54.0	4.7	4.5
9.	24370.00	BB	33.7	33.8	40.4	36.3	10.8	0.0	48.6	48.7	54.0	5.4	5.3

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz/KHA-03 (3160-09) 18-26GHz
■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-02 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting(2462MHz)
Remarks : IEEE802.11b(11Mbps)
Date : 4/1/2004
Test Distance : 3 m
Temperature : 24 °C
Humidity : 39 %
Regulation : FCC Part15C § 15.209(PK Detection)

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	2483.50	BB	46.2	45.8	30.7	36.9	4.1	10.0	54.1	53.7	74.0	19.9	20.3
2.	2488.29	BB	47.6	48.0	30.7	36.9	4.1	10.0	55.5	55.9	74.0	18.5	18.1
3.	4924.00	BB	45.2	44.9	35.8	35.2	5.6	0.5	51.9	51.6	74.0	22.1	22.4
4.	7386.00	BB	45.5	45.2	38.6	36.9	6.6	0.5	54.3	54.0	74.0	19.7	20.0
5.	9848.00	BB	45.9	46.2	39.0	37.0	7.2	0.7	55.8	56.1	74.0	18.2	17.9
6.	12310.00	BB	45.2	45.2	43.2	35.9	8.1	0.4	61.0	61.0	74.0	13.0	13.0
7.	14772.00	BB	45.4	45.2	43.2	35.1	8.1	0.4	62.0	61.8	74.0	12.0	12.2
8.	17234.00	BB	44.9	45.1	43.8	34.8	8.5	0.6	63.0	63.2	74.0	11.0	10.8
9.	19696.00	BB	44.5	45.5	39.5	35.0	9.6	0.0	58.6	59.6	74.0	15.4	14.4
10.	22158.00	BB	46.3	46.3	39.2	33.7	10.3	0.0	62.1	62.1	74.0	11.9	11.9
11.	24620.00	BB	46.5	46.7	40.4	36.0	10.9	0.0	61.8	62.0	74.0	12.2	12.0

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz/KHA-03 (3160-09) 18-26GHz

■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-02 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting(2462MHz)
Remarks : IEEE802.11b(11Mbps)
Date : 4/1/2004
Test Distance : 3 m
Temperature : 24 °C Engineer : Toyokazu Imamura
Humidity : 39 %
Regulation : FCC Part15C §15.209(AV Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	2483.50	BB	34.2	33.8	30.7	36.9	4.1	10.0	42.1	41.7	54.0	11.9	12.3
2.	2488.29	BB	34.5	34.1	30.7	36.9	4.1	10.0	42.4	42.0	54.0	11.6	12.0
3.	4924.00	BB	32.1	32.2	35.8	35.2	5.6	0.5	38.8	38.9	54.0	15.2	15.1
4.	7386.00	BB	32.8	32.8	38.6	36.9	6.6	0.5	41.6	41.6	54.0	12.4	12.4
5.	9848.00	BB	33.1	33.7	39.0	37.0	7.2	0.7	43.0	43.6	54.0	11.0	10.4
6.	12310.00	BB	32.6	32.6	43.2	35.9	8.1	0.4	48.4	48.4	54.0	5.6	5.6
7.	14772.00	BB	32.4	32.4	43.2	35.1	8.1	0.4	49.0	49.0	54.0	5.0	5.0
8.	17234.00	BB	32.0	32.0	43.8	34.8	8.5	0.6	50.1	50.1	54.0	3.9	3.9
9.	19696.00	BB	32.0	32.0	39.5	35.0	9.6	0.0	46.1	46.1	54.0	7.9	7.9
10.	22158.00	BB	33.3	33.3	39.2	33.7	10.3	0.0	49.1	49.1	54.0	4.9	4.9
11.	24620.00	BB	33.9	33.9	40.4	36.0	10.9	0.0	49.2	49.2	54.0	4.8	4.8

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz/KHA-03 (3160-09) 18-26GHz

■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-02 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2412MHz)
Remarks : IEEE802.11g (54Mbps)
Date : 4/2/2004
Test Distance : 3 m
Temperature : 22 °C Engineer : Toyokazu Imamura
Humidity : 43 %
Regulation : FCC Part15C § 15.209 (PK Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	2312.02	BB	49.9	48.3	30.5	36.9	4.0	10.0	57.5	55.9	74.0	16.5	18.1
2.	2390.00	BB	51.8	45.9	30.6	36.9	4.1	10.0	59.6	53.7	74.0	14.4	20.3
3.	4824.00	BB	44.5	44.4	35.3	35.2	5.6	0.6	50.8	50.7	74.0	23.2	23.3
4.	7236.00	BB	45.5	45.5	38.3	36.8	6.5	0.5	54.0	54.0	74.0	20.0	20.0
5.	9648.00	BB	45.6	45.8	39.1	36.9	7.2	0.5	55.5	55.7	74.0	18.5	18.3
6.	12060.00	BB	45.6	45.5	43.4	36.3	8.1	0.5	61.3	61.2	74.0	12.7	12.8
7.	14472.00	BB	44.8	44.9	42.6	35.2	7.3	0.2	59.7	59.8	74.0	14.3	14.2
8.	16884.00	BB	45.2	45.2	43.0	35.0	8.8	0.5	62.5	62.5	74.0	11.5	11.5
9.	19296.00	BB	45.9	45.4	39.1	34.7	9.4	0.0	59.7	59.2	74.0	14.3	14.8
10.	21708.00	BB	45.4	45.4	39.2	34.3	9.9	0.0	60.2	60.2	74.0	13.8	13.8
11.	24120.00	BB	46.3	46.6	40.3	35.5	10.9	0.0	62.0	62.3	74.0	12.0	11.7

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz/KHA-03 (3160-09) 18-26GHz

■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-02 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. :
Power : AC120V/60Hz
Mode : Transmitting(2412MHz)
Remarks : IEEE802.11g(54Mbps)
Date : 4/2/2004
Test Distance : 3 m
Temperature : 24 °C
Humidity : 39 %
Regulation : FCC Part15C § 15.209(AV Detection)

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	2312.02	BB	39.7	37.4	30.5	36.9	4.0	10.0	47.3	45.0	54.0	6.7	9.0
2.	2390.00	BB	35.7	34.1	30.6	36.9	4.1	10.0	43.5	41.9	54.0	10.5	12.1
3.	4824.00	BB	31.7	31.7	35.3	35.2	5.6	0.6	38.0	38.0	54.0	16.0	16.0
4.	7236.00	BB	32.8	32.8	38.3	36.8	6.5	0.5	41.3	41.3	54.0	12.7	12.7
5.	9648.00	BB	32.7	32.8	39.1	36.9	7.2	0.5	42.6	42.7	54.0	11.4	11.3
6.	12060.00	BB	32.6	32.6	43.4	36.3	8.1	0.5	48.3	48.3	54.0	5.7	5.7
7.	14472.00	BB	31.9	31.9	42.6	35.2	7.3	0.2	46.8	46.8	54.0	7.2	7.2
8.	16884.00	BB	32.4	32.4	43.0	35.0	8.8	0.5	49.7	49.7	54.0	4.3	4.3
9.	19296.00	BB	32.2	32.2	39.1	34.7	9.4	0.0	46.0	46.0	54.0	8.0	8.0
10.	21708.00	BB	32.7	32.7	39.2	34.3	9.9	0.0	47.5	47.5	54.0	6.5	6.5
11.	24120.00	BB	33.7	33.6	40.3	35.5	10.9	0.0	49.4	49.3	54.0	4.6	4.7

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ANTENNA:KHA-01(SAS-200 571)1-18GHz/KHA-03(3160-09)18-26GHz

■CABLE:KCC-D3/D7■PREAMP:KAF-02(8449B)■EMI RECEIVER:KTR-01(ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
 Kind of Equipment : Notebook personal Computer
 Model No. : PCG-6C1L
 Serial No. : XTA004
 Power : AC120V/60Hz
 Mode : Transmitting (2437MHz)
 Remarks : IEEE802.11g (54Mbps)
 Date : 4/2/2004
 Test Distance : 3 m
 Temperature : 22 °C
 Humidity : 43 %
 Regulation : FCC Part15C § 15.209(PK Detection)

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	2336.07	BB	50.2	48.3	30.5	36.9	4.1	10.0	57.9	56.0	74.0	16.1	18.0
2.	4874.00	BB	44.7	44.4	35.6	35.2	5.6	0.6	51.3	51.0	74.0	22.7	23.0
3.	7311.00	BB	46.2	45.5	38.4	36.8	6.6	0.5	54.9	54.2	74.0	19.1	19.8
4.	9748.00	BB	45.4	45.2	39.1	37.0	7.2	0.6	55.3	55.1	74.0	18.7	18.9
5.	12185.00	BB	45.5	45.5	43.3	36.1	8.1	0.4	61.2	61.2	74.0	12.8	12.8
6.	14622.00	BB	45.8	45.4	43.0	35.2	7.7	0.3	61.6	61.2	74.0	12.4	12.8
7.	17059.00	BB	45.0	45.2	43.3	34.9	8.7	0.5	62.6	62.8	74.0	11.4	11.2
8.	19496.00	BB	45.4	44.5	39.0	34.7	9.5	0.0	59.2	58.3	74.0	14.8	15.7
9.	21933.00	BB	46.5	46.3	39.3	33.6	10.2	0.0	62.4	62.2	74.0	11.6	11.8
10.	24370.00	BB	46.5	46.2	40.4	36.3	10.8	0.0	61.4	61.1	74.0	12.6	12.9

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz / KHA-03 (3160-09) 18-26GHz

■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-02 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2437MHz)
Remarks : IEEE802.11g (54Mbps)
Date : 4/2/2004
Test Distance : 3 m
Temperature : 22 °C
Humidity : 43 %
Regulation : FCC Part15C § 15.209(AV Detection)

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	2336.07	BB	40.1	36.1	30.5	36.9	4.1	10.0	47.8	43.8	54.0	6.2	10.2
2.	4874.00	BB	31.9	32.1	35.6	35.2	5.6	0.6	38.5	38.7	54.0	15.5	15.3
3.	7311.00	BB	32.8	32.8	38.4	36.8	6.6	0.5	41.5	41.5	54.0	12.5	12.5
4.	9748.00	BB	32.5	32.5	39.1	37.0	7.2	0.6	42.4	42.4	54.0	11.6	11.6
5.	12185.00	BB	32.6	32.6	43.3	36.1	8.1	0.4	48.3	48.3	54.0	5.7	5.7
6.	14622.00	BB	32.3	32.3	43.0	35.2	7.7	0.3	48.1	48.1	54.0	5.9	5.9
7.	17059.00	BB	32.3	32.3	43.3	34.9	8.7	0.5	49.9	49.9	54.0	4.1	4.1
8.	19496.00	BB	31.9	31.9	39.0	34.7	9.5	0.0	45.7	45.7	54.0	8.3	8.3
9.	21933.00	BB	33.5	33.5	39.3	33.6	10.2	0.0	49.4	49.4	54.0	4.6	4.6
10.	24370.00	BB	33.7	33.7	40.4	36.3	10.8	0.0	48.6	48.6	54.0	5.4	5.4

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz / KHA-03 (3160-09) 18-26GHz

■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-02 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2462MHz)
Remarks : IEEE802.11g (54Mbps)
Date : 4/2/2004
Test Distance : 3 m
Temperature : 22 °C Engineer : Toyokazu Imamura
Humidity : 43 %
Regulation : FCC Part15C §15.209(PK Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	2359.98	BB	49.1	47.4	30.5	36.9	4.1	10.0	56.8	55.1	74.0	17.2	18.9
2.	2483.50	BB	54.0	51.2	30.7	36.9	4.1	10.0	61.9	59.1	74.0	12.1	14.9
3.	4924.00	BB	44.9	46.2	35.8	35.2	5.6	0.5	51.6	52.9	74.0	22.4	21.1
4.	7386.00	BB	45.8	45.6	38.6	36.9	6.6	0.5	54.6	54.4	74.0	19.4	19.6
5.	9848.00	BB	45.6	46.2	39.0	37.0	7.2	0.7	55.5	56.1	74.0	18.5	17.9
6.	12310.00	BB	45.2	45.5	43.2	35.9	8.1	0.4	61.0	61.3	74.0	13.0	12.7
7.	14772.00	BB	45.5	44.8	43.2	35.1	8.1	0.4	62.1	61.4	74.0	11.9	12.6
8.	17234.00	BB	45.1	44.8	43.8	34.8	8.5	0.6	63.2	62.9	74.0	10.8	11.1
9.	19696.00	BB	44.5	44.8	39.5	35.0	9.6	0.0	58.6	58.9	74.0	15.4	15.1
10.	22158.00	BB	45.9	46.7	39.2	33.7	10.3	0.0	61.7	62.5	74.0	12.3	11.5
11.	24620.00	BB	46.5	46.8	40.4	36.0	10.9	0.0	61.8	62.1	74.0	12.2	11.9

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz / KHA-03 (3160-09) 18-26GHz

■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-02 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2462MHz)
Remarks : IEEE802.11g (54Mbps)
Date : 4/2/2004
Test Distance : 3 m
Temperature : 22 °C
Humidity : 43 %
Regulation : FCC Part15C § 15.209 (AV Detection)

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	2359.98	BB	37.9	35.1	30.5	36.9	4.1	10.0	45.6	42.8	54.0	8.4	11.2
2.	2483.50	BB	36.2	35.0	30.7	36.9	4.1	10.0	44.1	42.9	54.0	9.9	11.1
3.	4924.00	BB	32.1	32.2	35.8	35.2	5.6	0.5	38.8	38.9	54.0	15.2	15.1
4.	7386.00	BB	32.7	32.8	38.6	36.9	6.6	0.5	41.5	41.6	54.0	12.5	12.4
5.	9848.00	BB	32.6	33.1	39.0	37.0	7.2	0.7	42.5	43.0	54.0	11.5	11.0
6.	12310.00	BB	32.6	32.6	43.2	35.9	8.1	0.4	48.4	48.4	54.0	5.6	5.6
7.	14772.00	BB	32.4	32.3	43.2	35.1	8.1	0.4	49.0	48.9	54.0	5.0	5.1
8.	17234.00	BB	32.0	31.9	43.8	34.8	8.5	0.6	50.1	50.0	54.0	3.9	4.0
9.	19696.00	BB	32.0	31.9	39.5	35.0	9.6	0.0	46.1	46.0	54.0	7.9	8.0
10.	22158.00	BB	33.3	33.3	39.2	33.7	10.3	0.0	49.1	49.1	54.0	4.9	4.9
11.	24620.00	BB	33.9	33.9	40.4	36.0	10.9	0.0	49.2	49.2	54.0	4.8	4.8

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz / KHA-03 (3160-09) 18-26GHz

■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-02 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting(2412MHz)
Remarks : IEEE802.11b(11Mbps)+Bluetooth(Hopping)
Date : 4/2/2004
Test Distance : 3 m
Temperature : 22 °C
Humidity : 43 %
Regulation : FCC Part15C § 15.209(PK Detection)

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	2312.11	BB	49.0	46.9	30.5	36.9	4.0	10.0	56.6	54.5	74.0	17.4	19.5
2.	2390.00	BB	46.7	45.9	30.6	36.9	4.1	10.0	54.5	53.7	74.0	19.5	20.3
3.	4824.00	BB	45.2	45.5	35.3	35.2	5.6	0.6	51.5	51.8	74.0	22.5	22.2
4.	7236.00	BB	45.3	45.6	38.3	36.8	6.5	0.5	53.8	54.1	74.0	20.2	19.9
5.	9648.00	BB	45.5	46.0	39.1	36.9	7.2	0.5	55.4	55.9	74.0	18.6	18.1
6.	12060.00	BB	45.2	44.9	43.4	36.3	8.1	0.5	60.9	60.6	74.0	13.1	13.4
7.	14472.00	BB	44.8	44.8	42.6	35.2	7.3	0.2	59.7	59.7	74.0	14.3	14.3
8.	16884.00	BB	45.1	45.2	43.0	35.0	8.8	0.5	62.4	62.5	74.0	11.6	11.5
9.	19296.00	BB	45.2	45.5	39.1	34.7	9.4	0.0	59.0	59.3	74.0	15.0	14.7
10.	21708.00	BB	45.7	45.3	39.2	34.3	9.9	0.0	60.5	60.1	74.0	13.5	13.9
11.	24120.00	BB	46.5	46.3	40.3	35.5	10.9	0.0	62.2	62.0	74.0	11.8	12.0

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ANTENNA:KHA-01(SAS-200 571)1-18GHz/KHA-03(3160-09)18-26GHz

■CABLE:KCC-D3/D7■PREAMP:KAF-02(8449B)■EMI RECEIVER:KTR-01(ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant	: Sony Corporation		
Kind of Equipment	: Notebook personal Computer		
Model No.	: PCG-6C1L		
Serial No.	: XTA004		
Power	: AC120V/60Hz		
Mode	: Transmitting (2412MHz)		
Remarks	: IEEE802.11b (11Mbps)+Bluetooth (Hopping)		
Date	: 4/2/2004		
Test Distance	: 3 m		
Temperature	: 22 °C	Engineer	: Toyokazu Imamura
Humidity	: 43 %		
Regulation	: FCC Part15C § 15.209 (AV Detection)		

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	2312.11	BB	38.4	35.7	30.5	36.9	4.0	10.0	46.0	43.3	54.0	8.0	10.7
2.	2390.00	BB	34.2	33.9	30.6	36.9	4.1	10.0	42.0	41.7	54.0	12.0	12.3
3.	4824.00	BB	32.0	32.1	35.3	35.2	5.6	0.6	38.3	38.4	54.0	15.7	15.6
4.	7236.00	BB	32.7	32.8	38.3	36.8	6.5	0.5	41.2	41.3	54.0	12.8	12.7
5.	9648.00	BB	32.6	33.6	39.1	36.9	7.2	0.5	42.5	43.5	54.0	11.5	10.5
6.	12060.00	BB	32.4	32.5	43.4	36.3	8.1	0.5	48.1	48.2	54.0	5.9	5.8
7.	14472.00	BB	31.8	31.8	42.6	35.2	7.3	0.2	46.7	46.7	54.0	7.3	7.3
8.	16884.00	BB	32.2	32.2	43.0	35.0	8.8	0.5	49.5	49.5	54.0	4.5	4.5
9.	19296.00	BB	32.2	32.3	39.1	34.7	9.4	0.0	46.0	46.1	54.0	8.0	7.9
10.	21708.00	BB	32.7	32.7	39.2	34.3	9.9	0.0	47.5	47.5	54.0	6.5	6.5
11.	24120.00	BB	33.6	33.7	40.3	35.5	10.9	0.0	49.3	49.4	54.0	4.7	4.6

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz / KHA-03 (3160-09) 18-26GHz

■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-02 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant	: Sony Corporation
Kind of Equipment	: Notebook personal Computer
Model No.	: PCG-6C1L
Serial No.	: XTA004
Power	: AC120V/60Hz
Mode	: Transmitting (2437MHz)
Remarks	: IEEE802.11b (11Mbps) + Bluetooth (Hopping)
Date	: 4/2/2004
Test Distance	: 3 m
Temperature	: 22 °C
Humidity	: 43 %
Regulation	: FCC Part15C § 15.209 (PK Detection)

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	2336.06	BB	49.6	46.4	30.5	36.9	4.1	10.0	57.3	54.1	74.0	16.7	19.9
2.	4874.00	BB	45.7	45.6	35.6	35.2	5.6	0.6	52.3	52.2	74.0	21.7	21.8
3.	7311.00	BB	45.2	45.5	38.4	36.8	6.6	0.5	53.9	54.2	74.0	20.1	19.8
4.	9748.00	BB	45.3	45.2	39.1	37.0	7.2	0.6	55.2	55.1	74.0	18.8	18.9
5.	12185.00	BB	45.5	45.5	43.3	36.1	8.1	0.4	61.2	61.2	74.0	12.8	12.8
6.	14622.00	BB	45.2	45.1	43.0	35.2	7.7	0.3	61.0	60.9	74.0	13.0	13.1
7.	17059.00	BB	44.8	45.0	43.3	34.9	8.7	0.5	62.4	62.6	74.0	11.6	11.4
8.	19496.00	BB	45.3	45.1	39.0	34.7	9.5	0.0	59.1	58.9	74.0	14.9	15.1
9.	21933.00	BB	46.3	46.5	39.3	33.6	10.2	0.0	62.2	62.4	74.0	11.8	11.6
10.	24370.00	BB	49.6	46.4	40.4	36.3	10.8	0.0	64.5	61.3	74.0	9.5	12.7

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz / KHA-03 (3160-09) 18-26GHz

■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-02 (8449B) ■ EMF RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting(2437MHz)
Remarks : IEEE802.11b(11Mbps)+Bluetooth(Hopping)
Date : 4/2/2004
Test Distance : 3 m
Temperature : 22 °C Engineer : Toyokazu Imamura
Humidity : 43 %
Regulation : FCC Part15C §15.209(AV Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	2336.06	BB	39.9	35.2	30.5	36.9	4.1	10.0	47.6	42.9	54.0	6.4	11.1
2.	4874.00	BB	32.2	32.0	35.6	35.2	5.6	0.6	38.8	38.6	54.0	15.2	15.4
3.	7311.00	BB	32.7	32.7	38.4	36.8	6.6	0.5	41.4	41.4	54.0	12.6	12.6
4.	9748.00	BB	32.5	32.8	39.1	37.0	7.2	0.6	42.4	42.7	54.0	11.6	11.3
5.	12185.00	BB	32.6	32.5	43.3	36.1	8.1	0.4	48.3	48.2	54.0	5.7	5.8
6.	14622.00	BB	32.1	32.2	43.0	35.2	7.7	0.3	47.9	48.0	54.0	6.1	6.0
7.	17059.00	BB	32.2	32.2	43.3	34.9	8.7	0.5	49.8	49.8	54.0	4.2	4.2
8.	19496.00	BB	32.0	31.9	39.0	34.7	9.5	0.0	45.8	45.7	54.0	8.2	8.3
9.	21933.00	BB	33.6	33.5	39.3	33.6	10.2	0.0	49.5	49.4	54.0	4.5	4.6
10.	24370.00	BB	33.7	33.7	40.4	36.3	10.8	0.0	48.6	48.6	54.0	5.4	5.4

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ANTENNA:KHA-01(SAS-200 571)1-18GHz/KHA-03(3160-09)18-26GHz

■CABLE:KCC-D3/D7■PREAMP:KAF-02(8449B)■EMI RECEIVER:KTR-01(ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2462MHz)
Remarks : IEEE802.11b (11Mbps) + Bluetooth (Hopping)
Date : 4/2/2004
Test Distance : 3 m
Temperature : 22 °C Engineer : Toyokazu Imamura
Humidity : 43 %
Regulation : FCC Part15C § 15.209 (PK Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	2360.00	BB	48.4	46.6	30.5	36.9	4.1	10.0	56.1	54.3	74.0	17.9	19.7
2.	2483.50	BB	46.7	46.3	30.7	36.9	4.1	10.0	54.6	54.2	74.0	19.4	19.8
3.	4924.00	BB	45.7	45.9	35.8	35.2	5.6	0.5	52.4	52.6	74.0	21.6	21.4
4.	7386.00	BB	45.5	45.6	38.6	36.9	6.6	0.5	54.3	54.4	74.0	19.7	19.6
5.	9848.00	BB	45.5	45.5	39.0	37.0	7.2	0.7	55.4	55.4	74.0	18.6	18.6
6.	12310.00	BB	45.2	45.7	43.2	35.9	8.1	0.4	61.0	61.5	74.0	13.0	12.5
7.	14772.00	BB	45.1	45.1	43.2	35.1	8.1	0.4	61.7	61.7	74.0	12.3	12.3
8.	17234.00	BB	44.4	44.5	43.8	34.8	8.5	0.6	62.5	62.6	74.0	11.5	11.4
9.	19696.00	BB	45.1	45.3	39.5	35.0	9.6	0.0	59.2	59.4	74.0	14.8	14.6
10.	22158.00	BB	46.0	46.1	39.2	33.7	10.3	0.0	61.8	61.9	74.0	12.2	12.1
11.	24620.00	BB	47.1	46.7	40.4	36.0	10.9	0.0	62.4	62.0	74.0	11.6	12.0

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz / KHA-03 (3160-09) 18-26GHz

■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-02 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting(2462MHz)
Remarks : IEEE802.11b(11Mbps)+Bluetooth(Hopping)
Date : 4/2/2004
Test Distance : 3 m
Temperature : 22 °C
Humidity : 43 %
Regulation : FCC Part15C § 15.209(AV Detection)

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	2360.00	BB	37.4	35.0	30.5	36.9	4.1	10.0	45.1	42.7	54.0	8.9	11.3
2.	2483.50	BB	34.0	33.4	30.7	36.9	4.1	10.0	41.9	41.3	54.0	12.1	12.7
3.	4924.00	BB	32.1	31.9	35.8	35.2	5.6	0.5	38.8	38.6	54.0	15.2	15.4
4.	7386.00	BB	32.7	32.7	38.6	36.9	6.6	0.5	41.5	41.5	54.0	12.5	12.5
5.	9848.00	BB	32.6	32.9	39.0	37.0	7.2	0.7	42.5	42.8	54.0	11.5	11.2
6.	12310.00	BB	32.5	32.5	43.2	35.9	8.1	0.4	48.3	48.3	54.0	5.7	5.7
7.	14772.00	BB	32.2	32.3	43.2	35.1	8.1	0.4	48.8	48.9	54.0	5.2	5.1
8.	17234.00	BB	31.8	31.8	43.8	34.8	8.5	0.6	49.9	49.9	54.0	4.1	4.1
9.	19696.00	BB	32.4	32.1	39.5	35.0	9.6	0.0	46.5	46.2	54.0	7.5	7.8
10.	22158.00	BB	33.2	33.3	39.2	33.7	10.3	0.0	49.0	49.1	54.0	5.0	4.9
11.	24620.00	BB	33.9	33.9	40.4	36.0	10.9	0.0	49.2	49.2	54.0	4.8	4.8

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ANTENNA:KHA-01(SAS-200 571)1-18GHz/KHA-03(3160-09)18-26GHz

■CABLE:KCC-D3/D7■PREAMP:KAF-02(8449B)■EMI RECEIVER:KTR-01(ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2412MHz)
Remarks : IEEE802.11g (54Mbps) + Bluetooth (Hopping)
Date : 4/2/2004
Test Distance : 3 m
Temperature : 22 °C Engineer : Toyokazu Imamura
Humidity : 43 %
Regulation : FCC Part15C § 15.209 (PK Detection)

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	2312.00	BB	49.6	49.9	30.5	36.9	4.0	10.0	57.2	57.5	74.0	16.8	16.5
2.	2390.00	BB	51.3	47.0	30.6	36.9	4.1	10.0	59.1	54.8	74.0	14.9	19.2
3.	4824.00	BB	45.6	44.9	35.3	35.2	5.6	0.6	51.9	51.2	74.0	22.1	22.8
4.	7236.00	BB	45.5	45.6	38.3	36.8	6.5	0.5	54.0	54.1	74.0	20.0	19.9
5.	9648.00	BB	45.7	45.3	39.1	36.9	7.2	0.5	55.6	55.2	74.0	18.4	18.8
6.	12060.00	BB	45.2	45.2	43.4	36.3	8.1	0.5	60.9	60.9	74.0	13.1	13.1
7.	14472.00	BB	44.4	44.5	42.6	35.2	7.3	0.2	59.3	59.4	74.0	14.7	14.6
8.	16884.00	BB	45.6	45.1	43.0	35.0	8.8	0.5	62.9	62.4	74.0	11.1	11.6
9.	19296.00	BB	45.1	44.9	39.1	34.7	9.4	0.0	58.9	58.7	74.0	15.1	15.3
10.	21708.00	BB	45.3	45.5	39.2	34.3	9.9	0.0	60.1	60.3	74.0	13.9	13.7
11.	24120.00	BB	46.8	46.3	40.3	35.5	10.9	0.0	62.5	62.0	74.0	11.5	12.0

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz / KHA-03 (3160-09) 18-26GHz

■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-02 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2412MHz)
Remarks : IEEE802.11g (54Mbps) + Bluetooth (Hopping)
Date : 4/2/2004
Test Distance : 3 m
Temperature : 22 °C
Humidity : 43 %
Regulation : FCC Part15C § 15.209 (AV Detection)

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	2312.00	BB	38.6	36.1	30.5	36.9	4.0	10.0	46.2	43.7	54.0	7.8	10.3
2.	2390.00	BB	35.4	34.0	30.6	36.9	4.1	10.0	43.2	41.8	54.0	10.8	12.2
3.	4824.00	BB	31.7	31.6	35.3	35.2	5.6	0.6	38.0	37.9	54.0	16.0	16.1
4.	7236.00	BB	32.8	32.7	38.3	36.8	6.5	0.5	41.3	41.2	54.0	12.7	12.8
5.	9648.00	BB	32.8	32.7	39.1	36.9	7.2	0.5	42.7	42.6	54.0	11.3	11.4
6.	12060.00	BB	32.5	32.5	43.4	36.3	8.1	0.5	48.2	48.2	54.0	5.8	5.8
7.	14472.00	BB	31.8	31.8	42.6	35.2	7.3	0.2	46.7	46.7	54.0	7.3	7.3
8.	16884.00	BB	32.2	32.3	43.0	35.0	8.8	0.5	49.5	49.6	54.0	4.5	4.4
9.	19296.00	BB	32.3	32.3	39.1	34.7	9.4	0.0	46.1	46.1	54.0	7.9	7.9
10.	21708.00	BB	32.7	32.7	39.2	34.3	9.9	0.0	47.5	47.5	54.0	6.5	6.5
11.	24120.00	BB	33.6	33.7	40.3	35.5	10.9	0.0	49.3	49.4	54.0	4.7	4.6

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz / KHA-03 (3160-09) 18-26GHz

■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-02 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting(2437MHz)
Remarks : IEEE802.11g(54Mbps)+Bluetooth(Hopping)
Date : 4/2/2004
Test Distance : 3 m
Temperature : 22 °C
Humidity : 43 %
Regulation : FCC Part15C § 15.209(PK Detection)

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]		HOR [dB]	VER [dB]
1.	2335.95	BB	49.6	47.4	30.5	36.9	4.1	10.0	57.3	55.1	74.0	16.7	18.9
2.	4874.00	BB	45.3	45.2	35.6	35.2	5.6	0.6	51.9	51.8	74.0	22.1	22.2
3.	7311.00	BB	45.6	45.5	38.4	36.8	6.6	0.5	54.3	54.2	74.0	19.7	19.8
4.	9748.00	BB	45.4	45.2	39.1	37.0	7.2	0.6	55.3	55.1	74.0	18.7	18.9
5.	12185.00	BB	45.5	45.5	43.3	36.1	8.1	0.4	61.2	61.2	74.0	12.8	12.8
6.	14622.00	BB	45.8	45.4	43.0	35.2	7.7	0.3	61.6	61.2	74.0	12.4	12.8
7.	17059.00	BB	45.0	45.2	43.3	34.9	8.7	0.5	62.6	62.8	74.0	11.4	11.2
8.	19496.00	BB	45.4	44.5	39.0	34.7	9.5	0.0	59.2	58.3	74.0	14.8	15.7
9.	21933.00	BB	46.5	46.3	39.3	33.6	10.2	0.0	62.4	62.2	74.0	11.6	11.8
10.	24370.00	BB	46.5	46.2	40.4	36.3	10.8	0.0	61.4	61.1	74.0	12.6	12.9

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ANTENNA:KHA-01(SAS-200 571)1-18GHz/KHA-03(3160-09)18-26GHz

■CABLE:KCC-D3/D7■PREAMP:KAF-02(8449B)■EMI RECEIVER:KTR-01(ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant : Sony Corporation
 Kind of Equipment : Notebook personal Computer
 Model No. : PCG-6C1L
 Serial No. : XTA004
 Power : AC120V/60Hz
 Mode : Transmitting (2437MHz)
 Remarks : IEEE802.11g (54Mbps) + Bluetooth (Hopping)
 Date : 4/2/2004
 Test Distance : 3 m
 Temperature : 22 °C
 Humidity : 43 %
 Regulation : FCC Part15C § 15.209 (AV Detection)

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	2335.95	BB	38.4	35.4	30.5	36.9	4.1	10.0	46.1	43.1	54.0	7.9	10.9
2.	4874.00	BB	31.9	31.9	35.6	35.2	5.6	0.6	38.5	38.5	54.0	15.5	15.5
3.	7311.00	BB	32.7	32.7	38.4	36.8	6.6	0.5	41.4	41.4	54.0	12.6	12.6
4.	9748.00	BB	32.4	32.4	39.1	37.0	7.2	0.6	42.3	42.3	54.0	11.7	11.7
5.	12185.00	BB	32.6	32.5	43.3	36.1	8.1	0.4	48.3	48.2	54.0	5.7	5.8
6.	14622.00	BB	32.2	32.2	43.0	35.2	7.7	0.3	48.0	48.0	54.0	6.0	6.0
7.	17059.00	BB	32.2	31.8	43.3	34.9	8.7	0.5	49.8	49.4	54.0	4.2	4.6
8.	19496.00	BB	31.9	32.0	39.0	34.7	9.5	0.0	45.7	45.8	54.0	8.3	8.2
9.	21933.00	BB	33.3	33.5	39.3	33.6	10.2	0.0	49.2	49.4	54.0	4.8	4.6
10.	24370.00	BB	33.6	33.7	40.4	36.3	10.8	0.0	48.5	48.6	54.0	5.5	5.4

CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz / KHA-03 (3160-09) 18-26GHz

■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-02 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.
Yamakita No.1 Anechoic Chamber
Report No. : 24GE0260-YK

Applicant : Sony Corporation
Kind of Equipment : Notebook personal Computer
Model No. : PCG-6C1L
Serial No. : XTA004
Power : AC120V/60Hz
Mode : Transmitting (2462MHz)
Remarks : IEEE802.11g (54Mbps) + Bluetooth (Hopping)
Date : 4/2/2004
Test Distance : 3 m
Temperature : 22 °C
Humidity : 43 %
Regulation : FCC Part15C § 15.209 (PK Detection)

Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	2359.95	BB	47.6	46.0	30.5	36.9	4.1	10.0	55.3	53.7	74.0	18.7	20.3
2.	2483.50	BB	54.2	51.5	30.7	36.9	4.1	10.0	62.1	59.4	74.0	11.9	14.6
3.	4924.00	BB	44.6	45.6	35.8	35.2	5.6	0.5	51.3	52.3	74.0	22.7	21.7
4.	7386.00	BB	44.1	45.2	38.6	36.9	6.6	0.5	52.9	54.0	74.0	21.1	20.0
5.	9848.00	BB	46.2	46.1	39.0	37.0	7.2	0.7	56.1	56.0	74.0	17.9	18.0
6.	12310.00	BB	44.4	45.5	43.2	35.9	8.1	0.4	60.2	61.3	74.0	13.8	12.7
7.	14772.00	BB	44.1	44.8	43.2	35.1	8.1	0.4	60.7	61.4	74.0	13.3	12.6
8.	17234.00	BB	45.4	44.5	43.8	34.8	8.5	0.6	63.5	62.6	74.0	10.5	11.4
9.	19696.00	BB	44.9	44.8	39.5	35.0	9.6	0.0	59.0	58.9	74.0	15.0	15.1
10.	22158.00	BB	46.3	46.1	39.2	33.7	10.3	0.0	62.1	61.9	74.0	11.9	12.1
11.	24620.00	BB	46.7	47.1	40.4	36.0	10.9	0.0	62.0	62.4	74.0	12.0	11.6

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz / KHA-03 (3160-09) 18-26GHz
■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-02 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

DATA OF RADIATION TEST

UL Apex Co.,Ltd.

Yamakita No.1 Anechoic Chamber

Report No. : 24GE0260-YK

Applicant	: Sony Corporation		
Kind of Equipment	: Notebook personal Computer		
Model No.	: PCG-6C1L		
Serial No.	: XTA004		
Power	: AC120V/60Hz		
Mode	: Transmitting (2462MHz)		
Remarks	: IEEE802.11g (54Mbps) + Bluetooth (Hopping)		
Date	: 4/2/2004		
Test Distance	: 3 m		
Temperature	: 22 °C	Engineer	: Toyokazu Imamura
Humidity	: 43 %		
Regulation	: FCC Part15C § 15.209 (AV Detection)		

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μV/m]	MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]		HOR [dB]	VER [dB]
1.	2359.95	BB	35.7	34.5	30.5	36.9	4.1	10.0	43.4	42.2	54.0	10.6	11.8
2.	2483.50	BB	35.7	34.5	30.7	36.9	4.1	10.0	43.6	42.4	54.0	10.4	11.6
3.	4924.00	BB	32.3	32.4	35.8	35.2	5.6	0.5	39.0	39.1	54.0	15.0	14.9
4.	7386.00	BB	33.1	33.1	38.6	36.9	6.6	0.5	41.9	41.9	54.0	12.1	12.1
5.	9848.00	BB	33.1	33.0	39.0	37.0	7.2	0.7	43.0	42.9	54.0	11.0	11.1
6.	12310.00	BB	32.9	32.5	43.2	35.9	8.1	0.4	48.7	48.3	54.0	5.3	5.7
7.	14772.00	BB	32.6	32.3	43.2	35.1	8.1	0.4	49.2	48.9	54.0	4.8	5.1
8.	17234.00	BB	32.2	31.8	43.8	34.8	8.5	0.6	50.3	49.9	54.0	3.7	4.1
9.	19696.00	BB	32.1	32.1	39.5	35.0	9.6	0.0	46.2	46.2	54.0	7.8	7.8
10.	22158.00	BB	32.2	33.2	39.2	33.7	10.3	0.0	48.0	49.0	54.0	6.0	5.0
11.	24620.00	BB	33.9	33.8	40.4	36.0	10.9	0.0	49.2	49.1	54.0	4.8	4.9

CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz / KHA-03 (3160-09) 18-26GHz

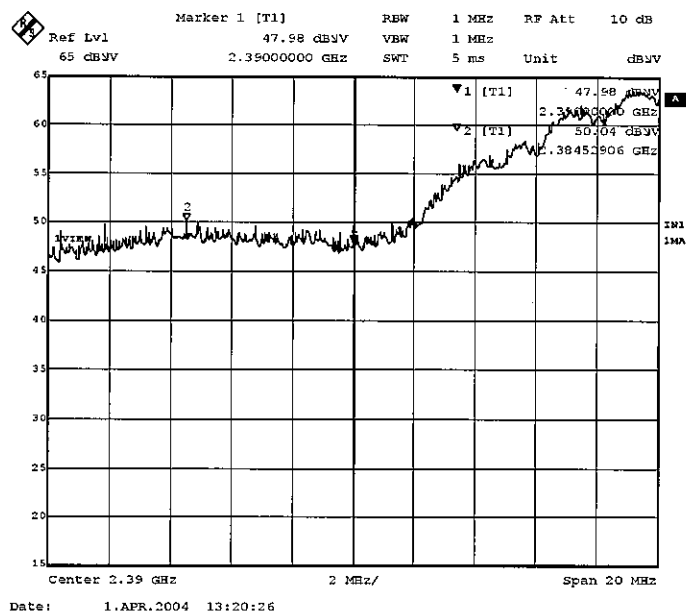
■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-02 (8449B) ■ EMI RECEIVER: KTR-01 (ES140)

[IEEE802.11b Main Antenna]

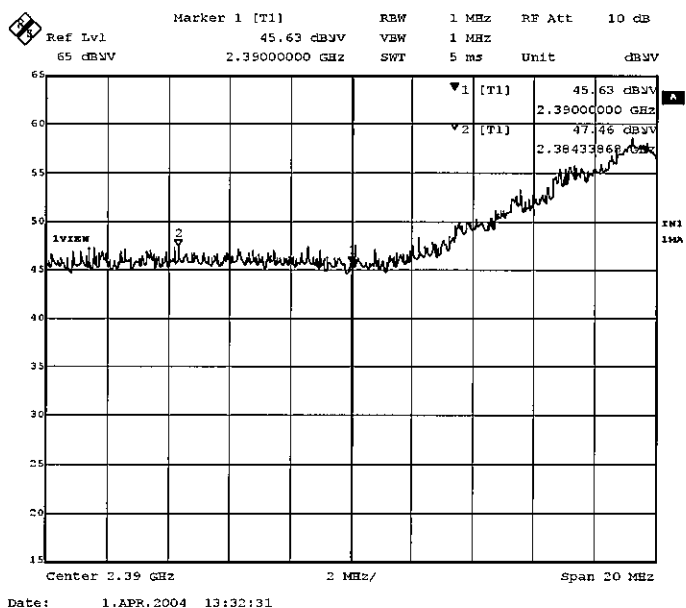
2.39GHz (Ch 1:2412MHz)

1. Horizontal/ PK

T. Andama



2. Vertical/ PK

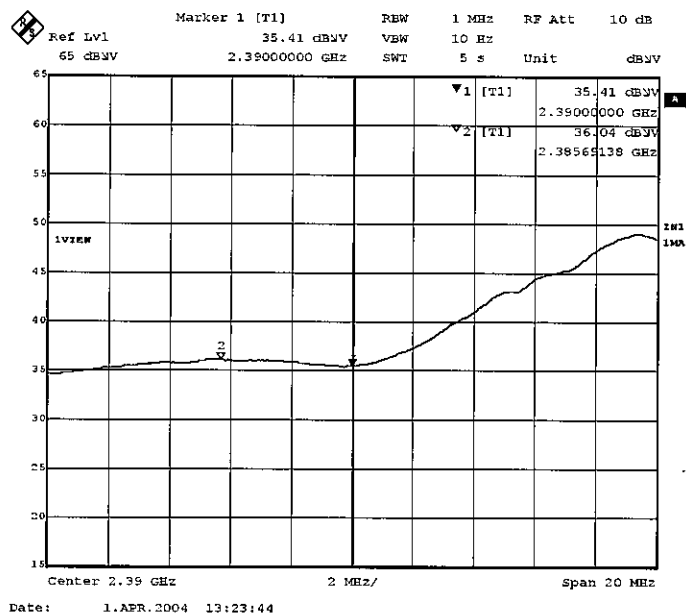


[IEEE802.11b Main Antenna]

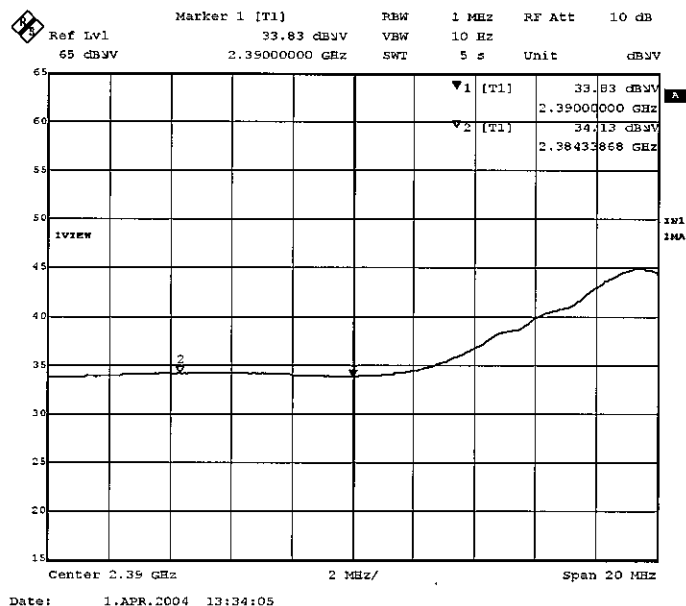
2.39GHz (Ch 1:2412MHz)

3. Horizontal/AV

T. Amamura



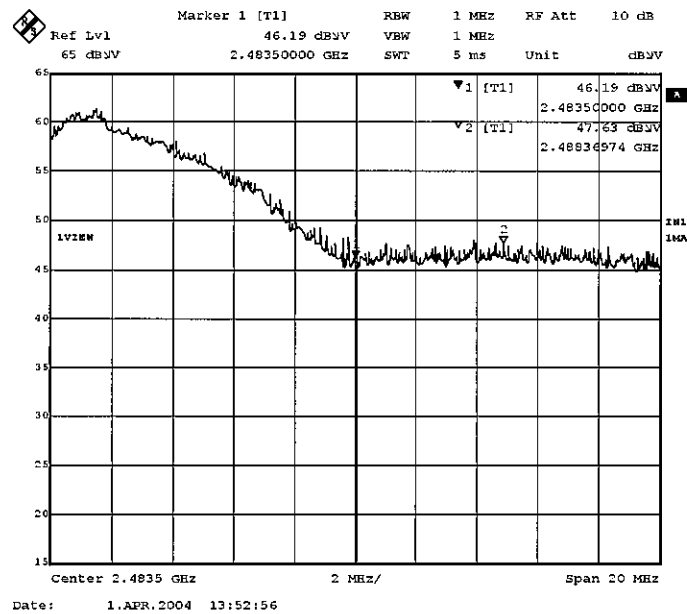
4. Vertical/AV



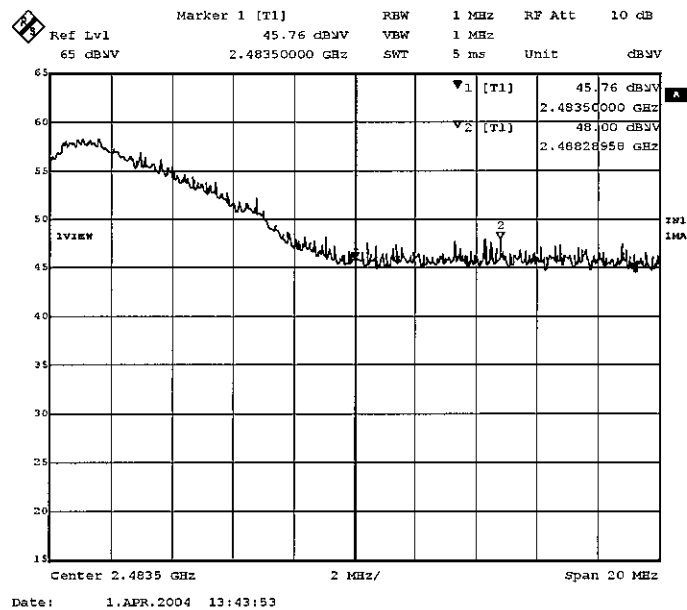
[IEEE802.11b Main Antenna]
2.4835GHz (Ch 11:2462MHz)

1. Horizontal/ PK

T. Imamura



2. Vertical/ PK

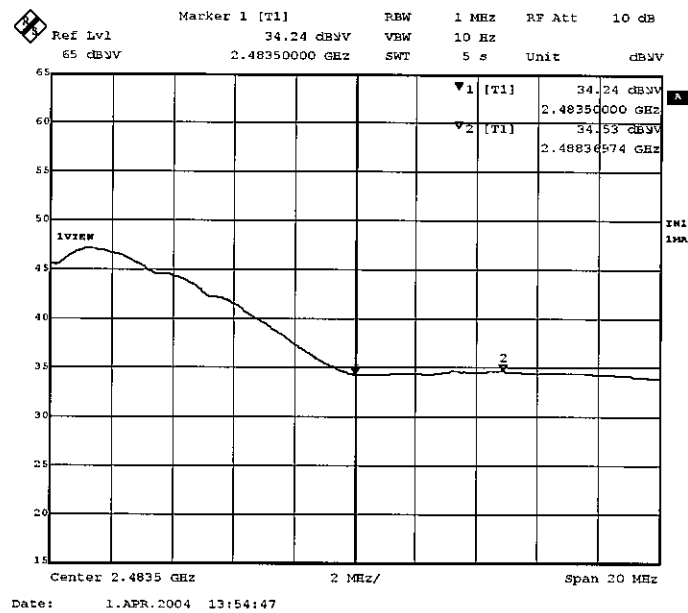


[IEEE802.11b Main Antenna]

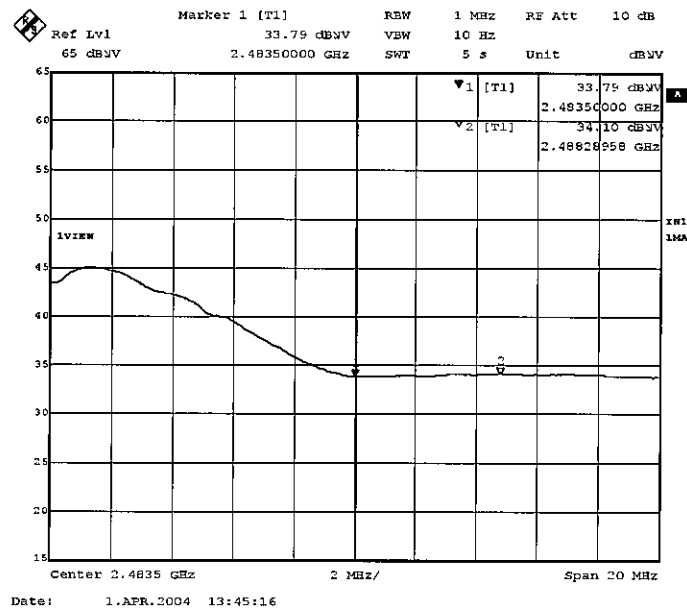
2.4835GHz (Ch 11:2462MHz)

3. Horizontal/ AV

T. Amamura

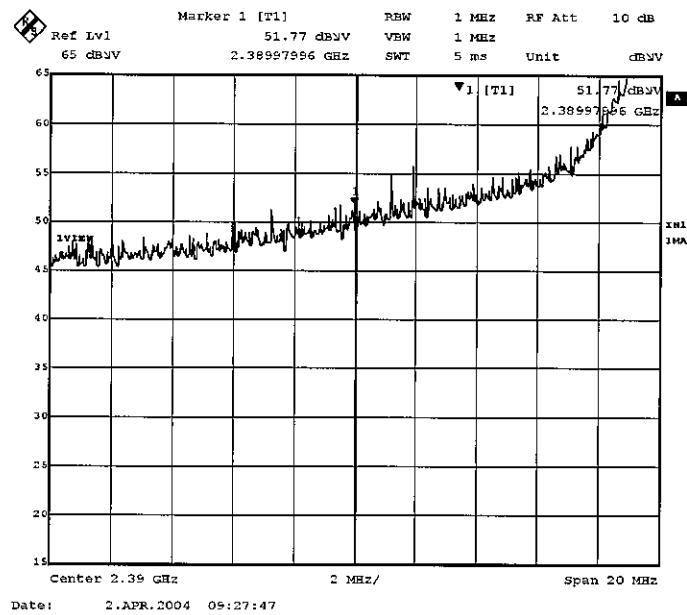


4. Vertical/ AV

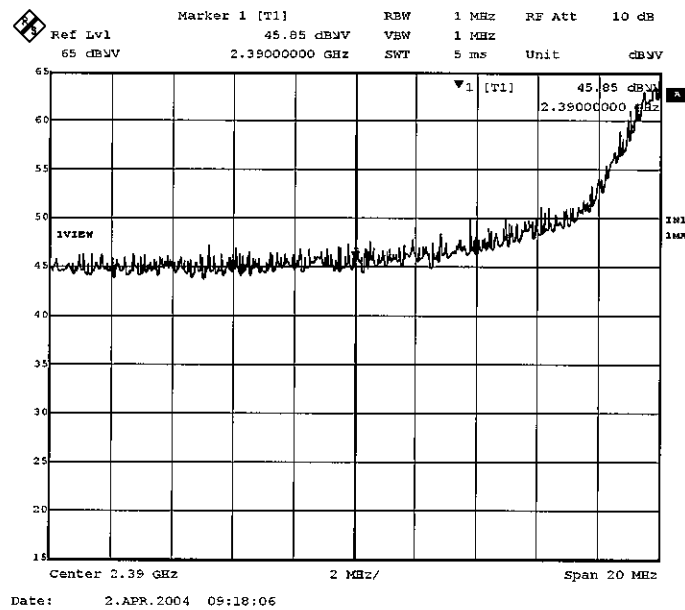


[IEEE802.11g Main Antenna]
2.39GHz (Ch 1:2412MHz)
1. Horizontal/ PK

T. Amamura



2. Vertical/ PK

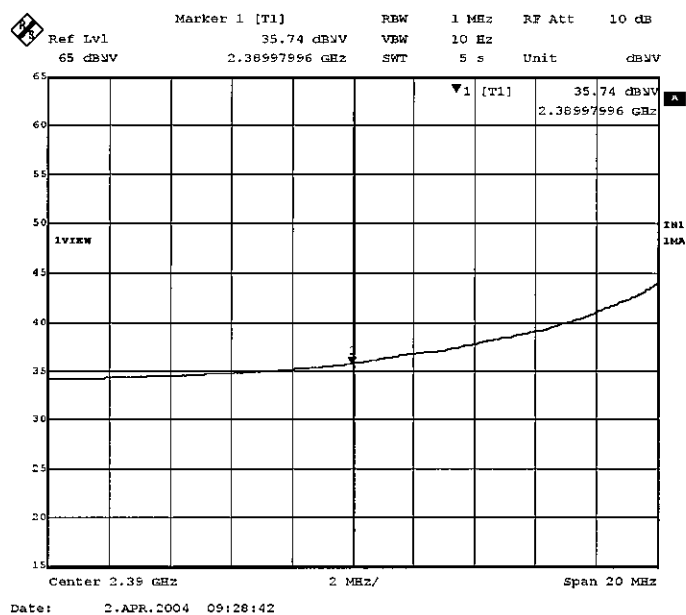


[IEEE802.11g Main Antenna]

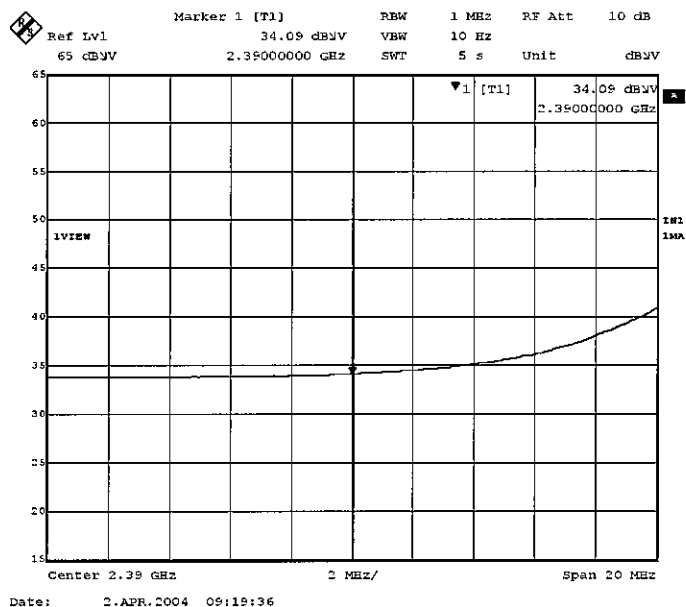
2.39GHz (Ch 1:2412MHz)

3. Horizontal/AV

T. Amamura



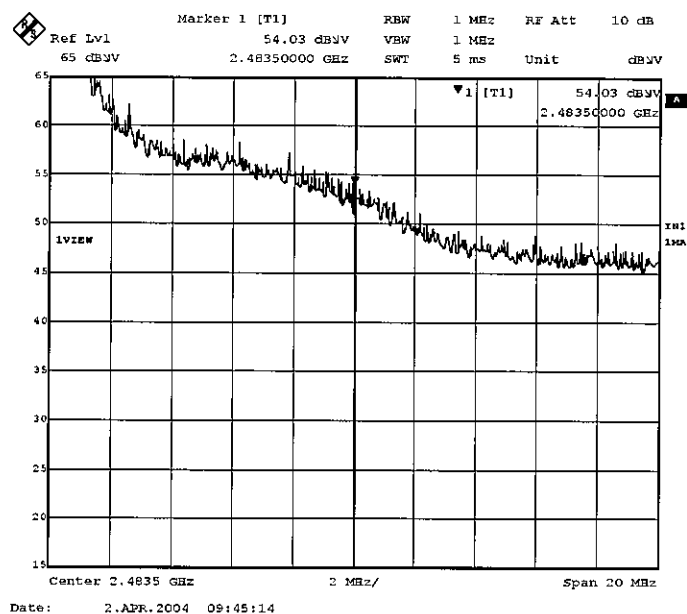
4. Vertical/AV



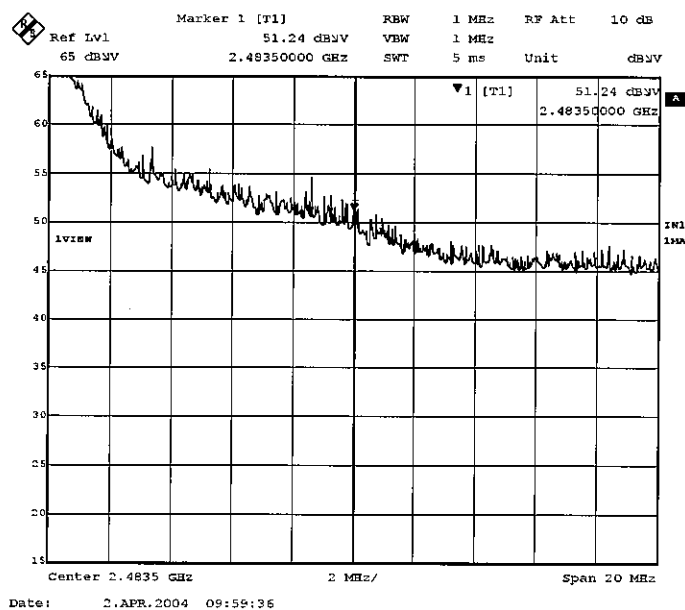
[IEEE802.11g Main Antenna]

2.4835GHz (Ch 11:2462MHz)

1. Horizontal/ PK

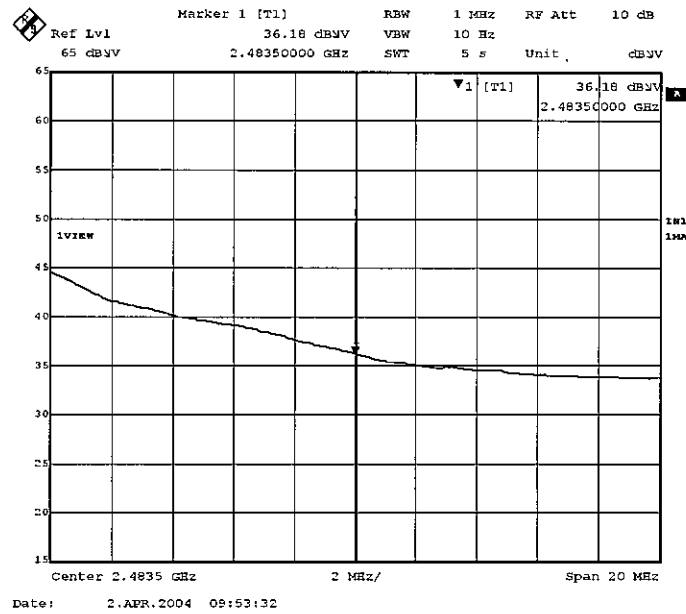
T. Anomura

2. Vertical/ PK

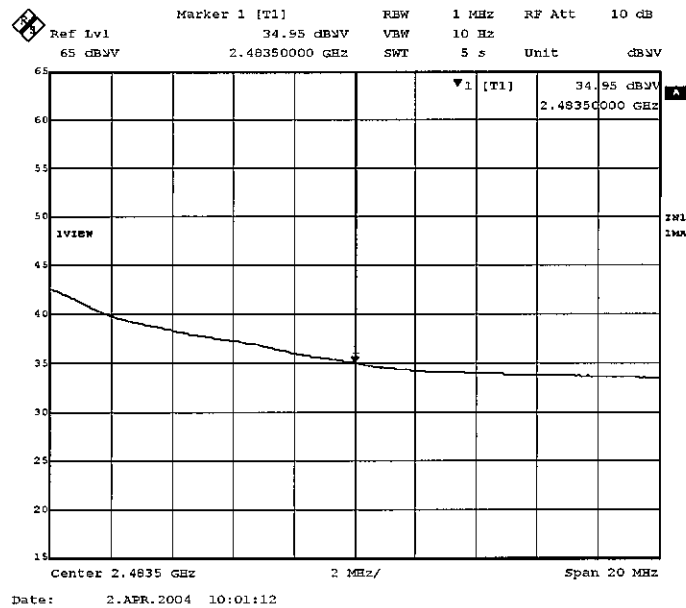


[IEEE802.11g Main Antenna]
2.4835GHz (Ch 11:2462MHz)
3. Horizontal/AV

T. Sano



4. Vertical/AV

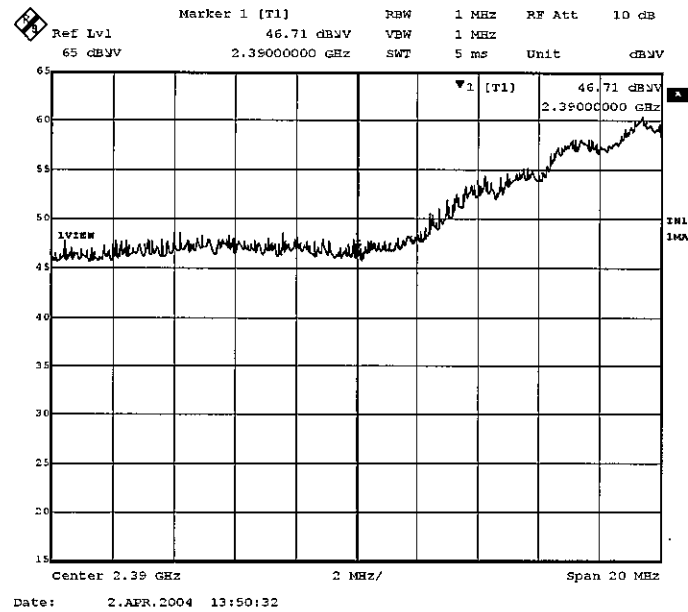


[IEEE802.11b Main Antenna + Bluetooth (Hopping)]

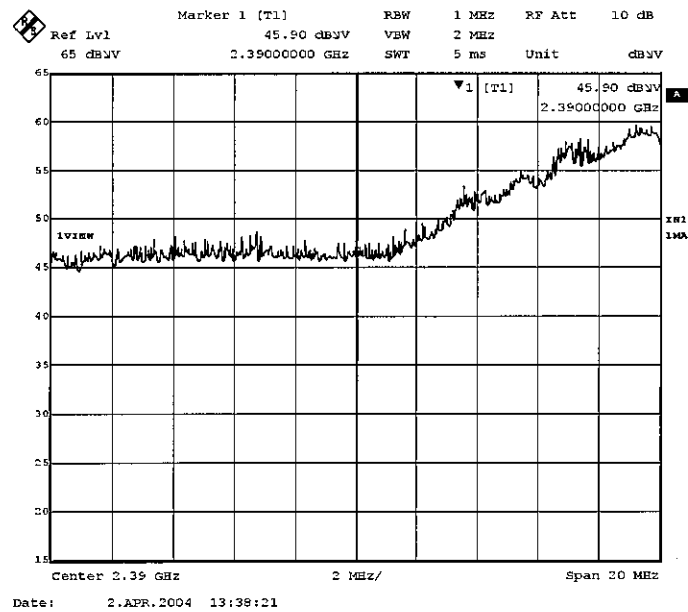
2.39GHz (Ch 1:2412MHz)

1. Horizontal/ PK

T. Amamura



2. Vertical/ PK

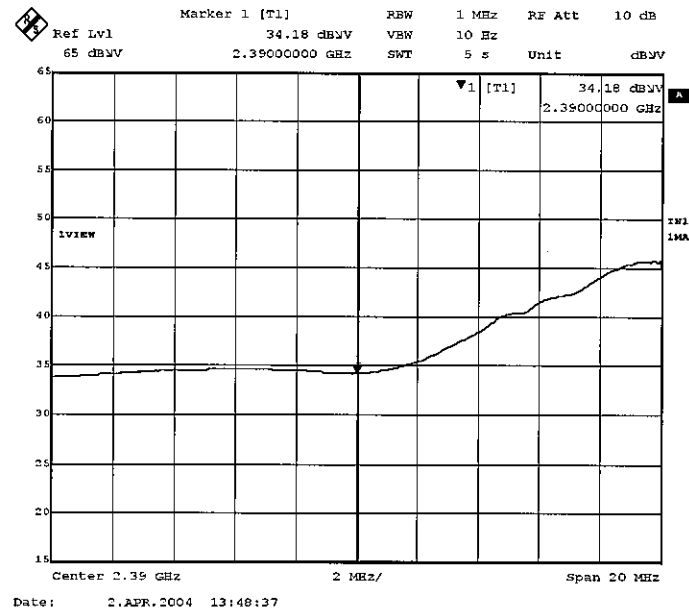


[IEEE802.11b Main Antenna + Bluetooth (Hopping)]

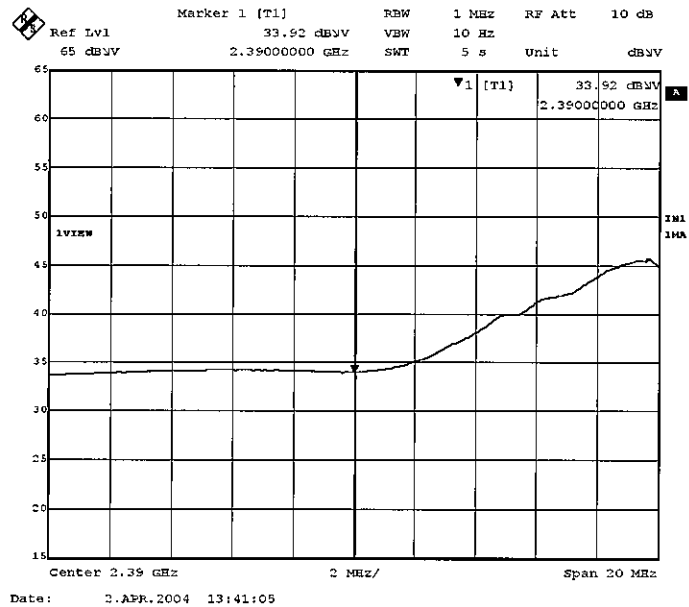
2.39GHz (Ch 1:2412MHz)

3. Horizontal/ AV

T. Amamura



4. Vertical/ AV

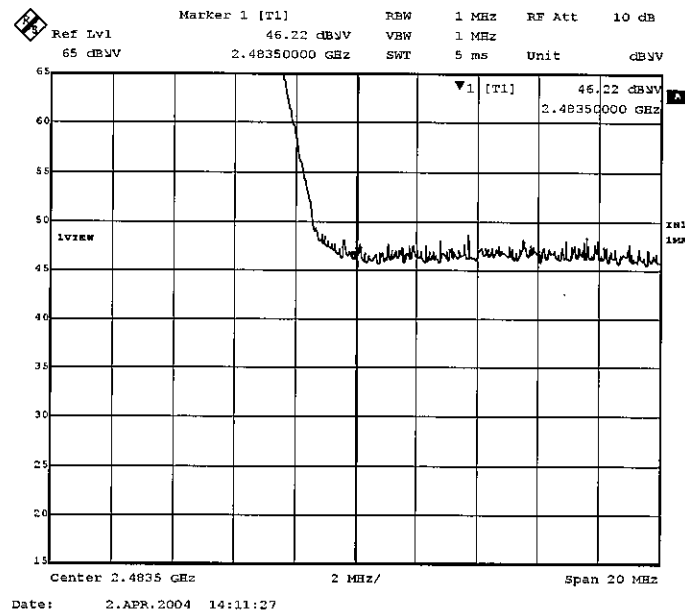


[IEEE802.11b Main Antenna + Bluetooth (Hopping)]

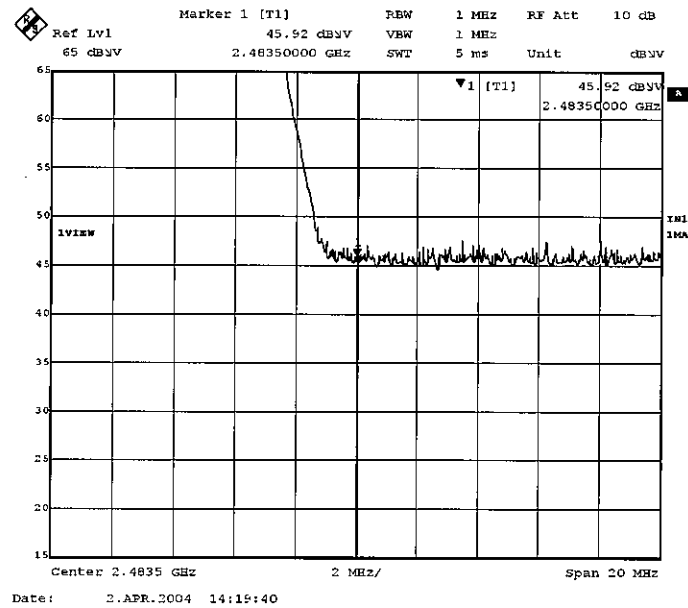
2.4835GHz (Ch 11:2462MHz)

1. Horizontal/ PK

T. Amamura



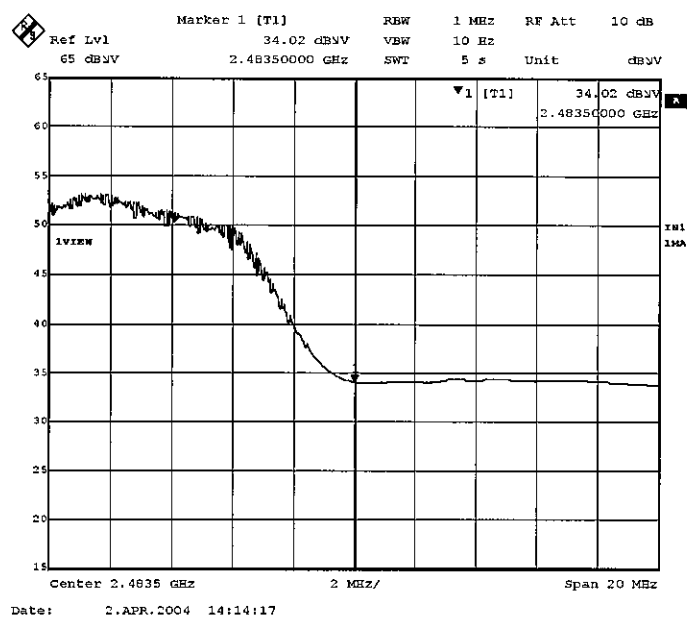
2. Vertical/ PK



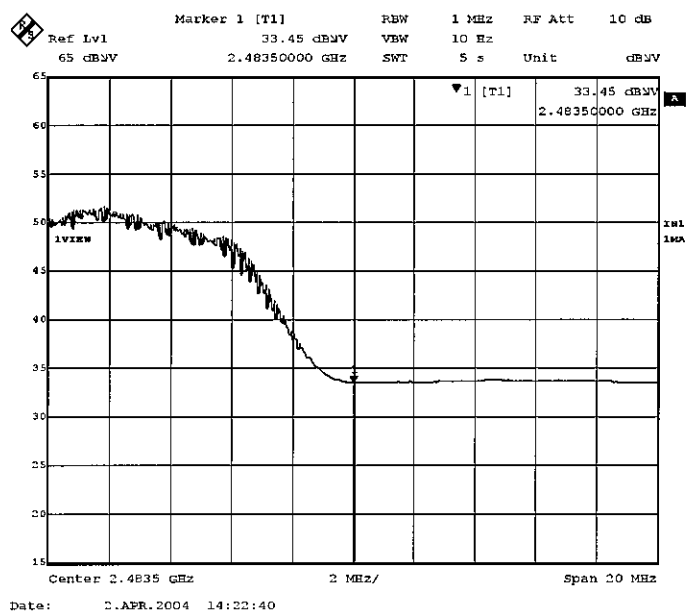
[IEEE802.11b Main Antenna + Bluetooth (Hopping)]

2.4835GHz (Ch 11:2462MHz)

3. Horizontal/AV

T. Amamura

4. Vertical/AV

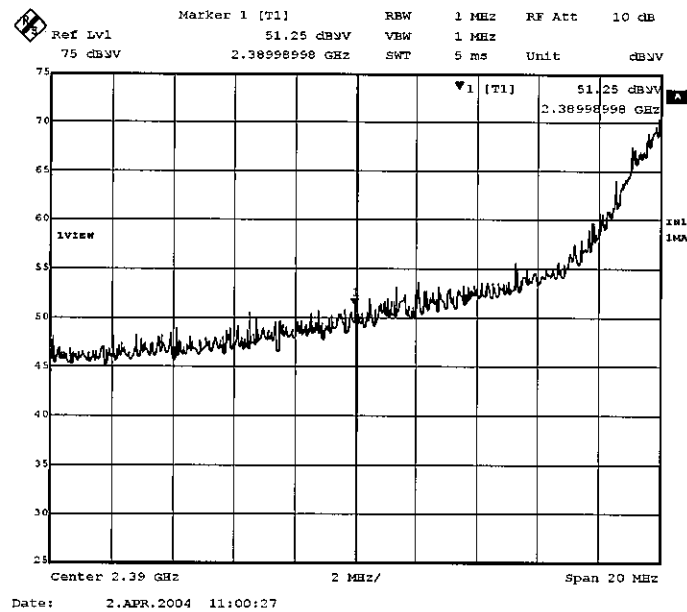


[IEEE802.11g Main Antenna + Bluetooth (Hopping)]

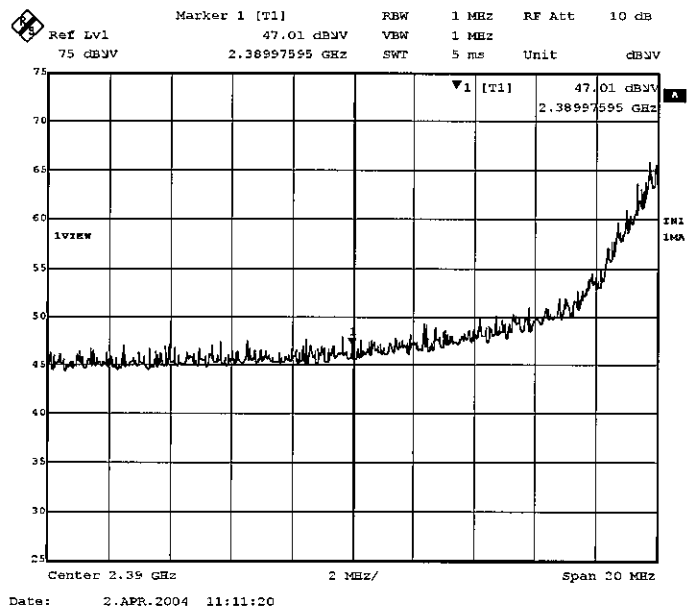
2.39GHz (Ch 1:2412MHz)

1. Horizontal/PK

T. Anamuna



2. Vertical/PK

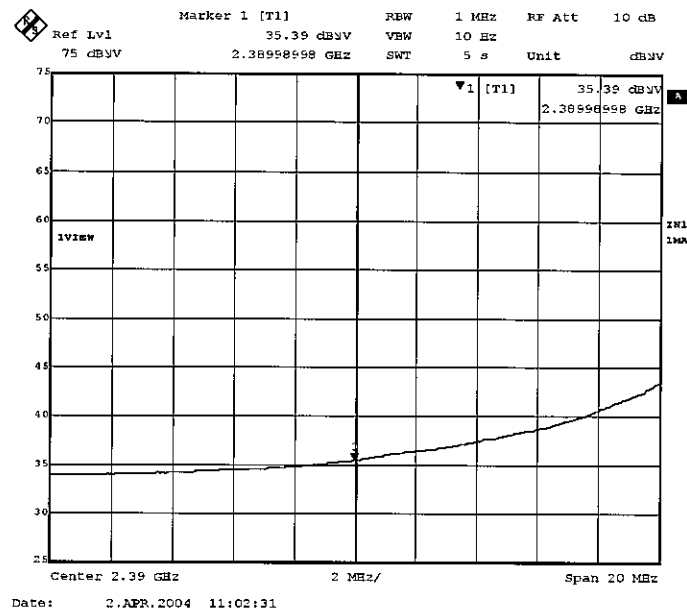


[IEEE802.11g Main Antenna + Bluetooth (Hopping)]

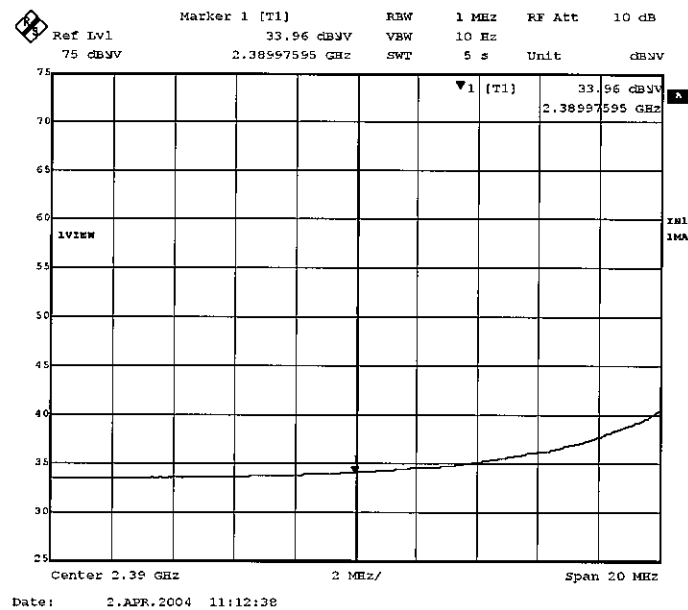
2.39GHz (Ch 1:2412MHz)

3. Horizontal/AV

T. Amanna



4. Vertical/AV

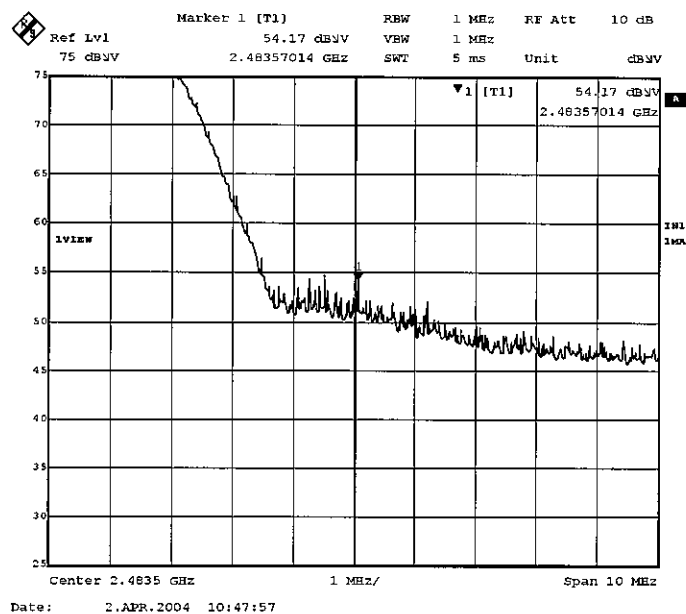


[IEEE802.11g Main Antenna + Bluetooth (Hopping)]

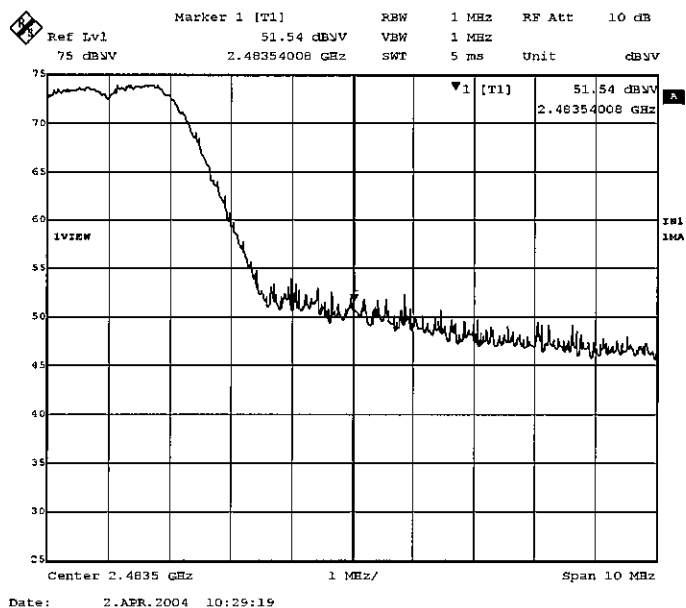
2.4835GHz (Ch 11:2462MHz)

1. Horizontal/ PK

T. Imamura



2. Vertical/ PK

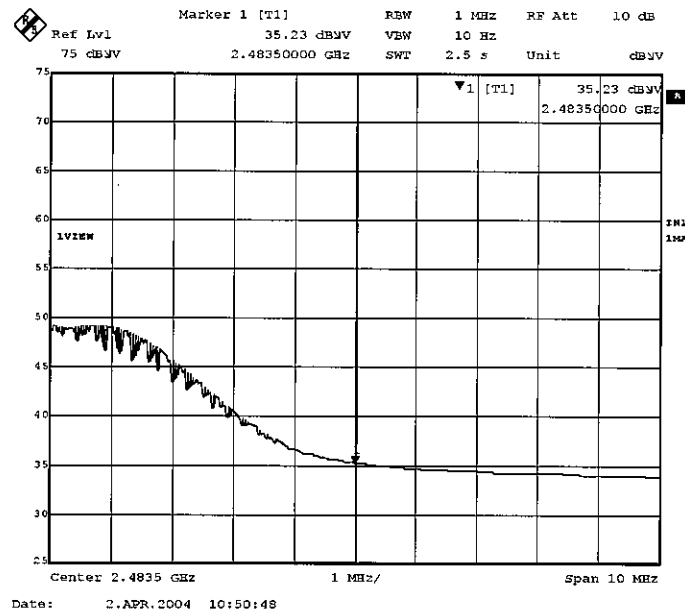


[IEEE802.11g Main Antenna + Bluetooth (Hopping)]

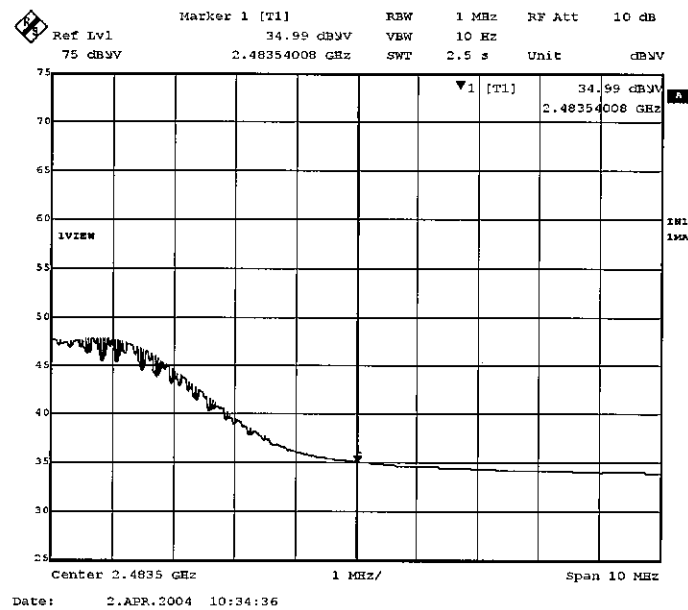
2.4835GHz (Ch 11:2462MHz)

3. Horizontal/AV

T. Amamura



4. Vertical/AV

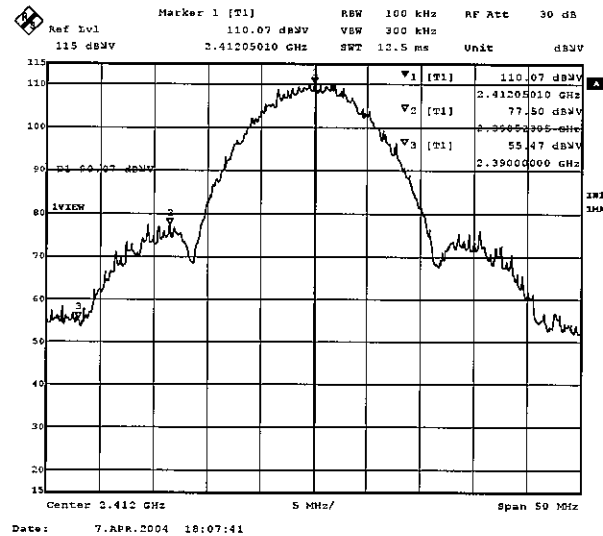


[IEEE802.11b Main Antenna Terminal]

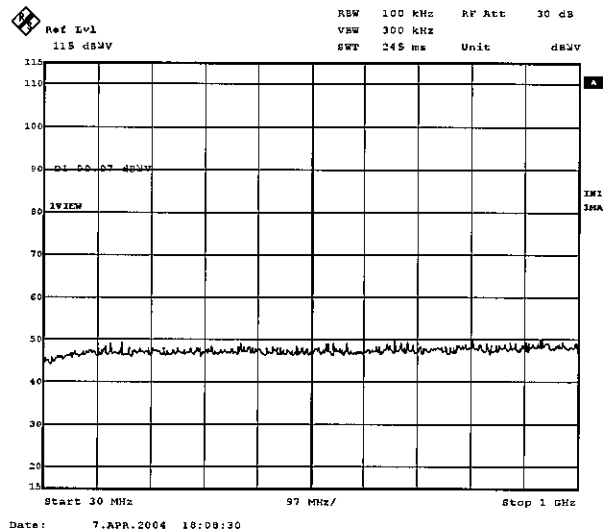
Ch 1: 2412MHz

1.

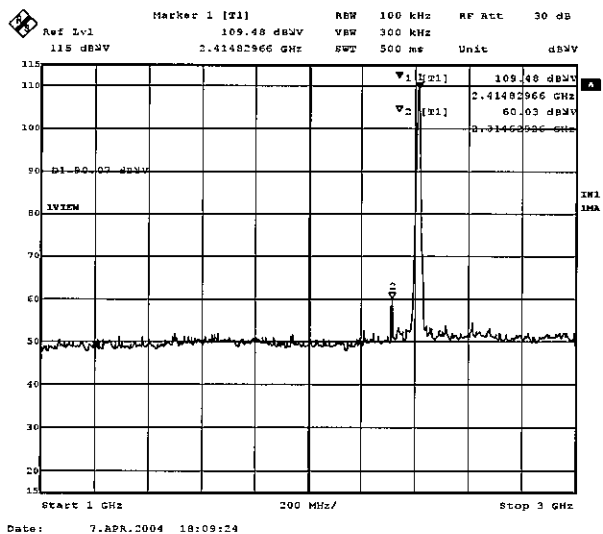
T. Amomura



2.



3.



Out of Band Emissions (Conducted): FCC 15.247(c)

FCC ID: AK8PCG6C1L

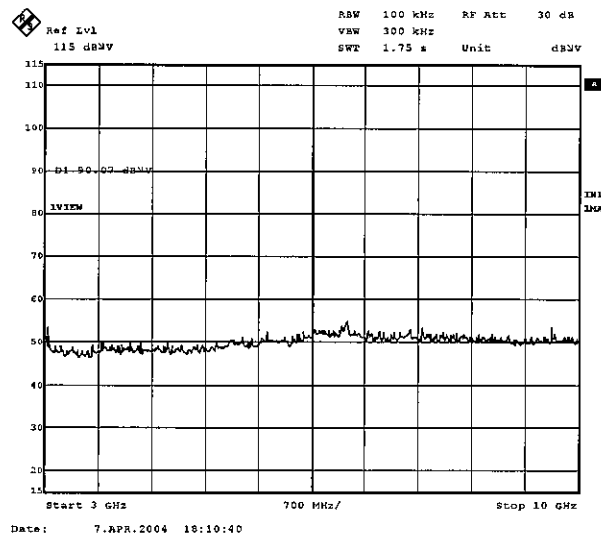
Test Report No.: 24GE0260-YK-1

[IEEE802.11b Main Antenna Terminal]

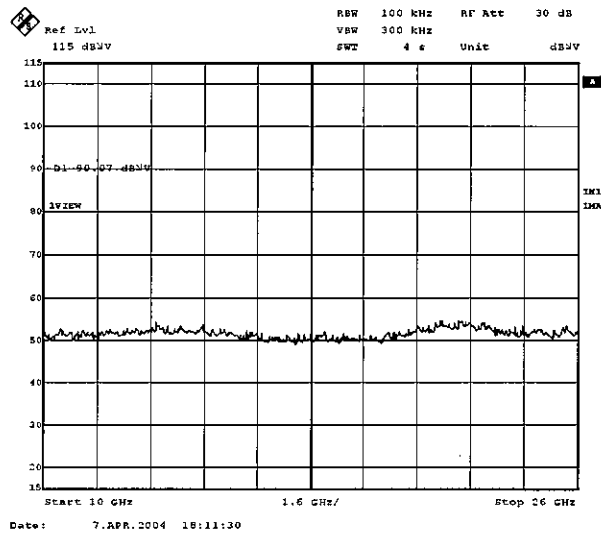
Ch 1: 2412MHz

4.

T. Amamura



5.

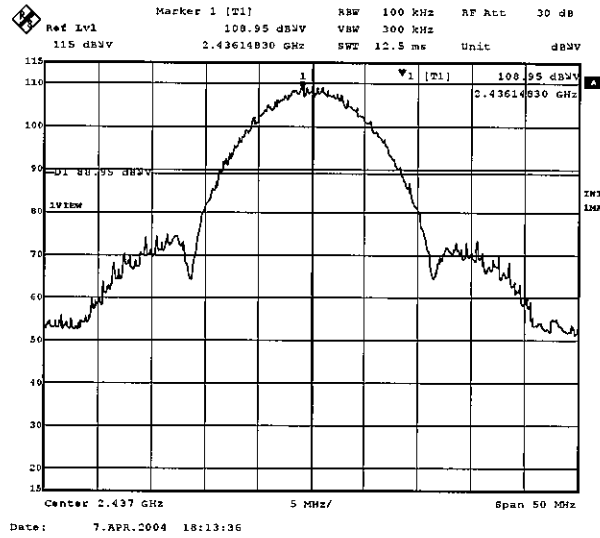


[IEEE802.11b Main Antenna Terminal]

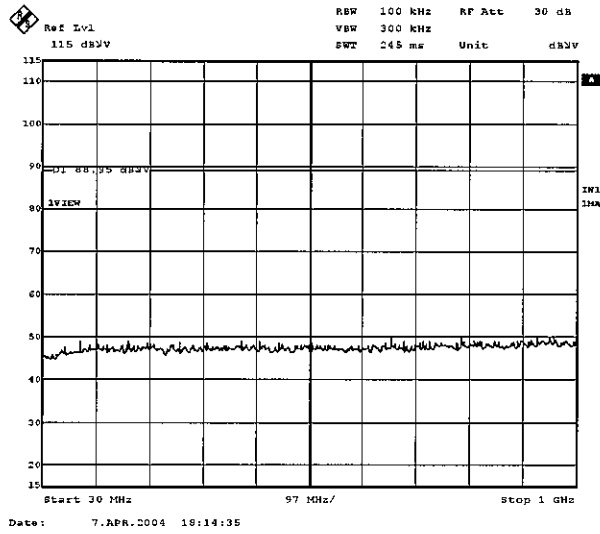
Ch 6: 2437MHz

1.

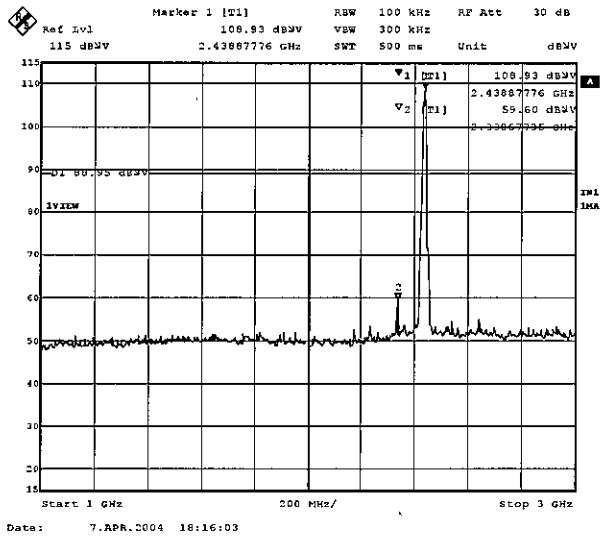
T. Amamura



2.



3.

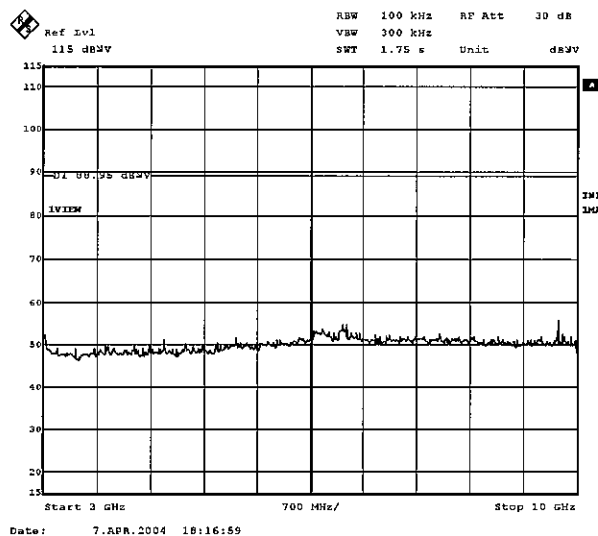


[IEEE802.11b Main Antenna Terminal]

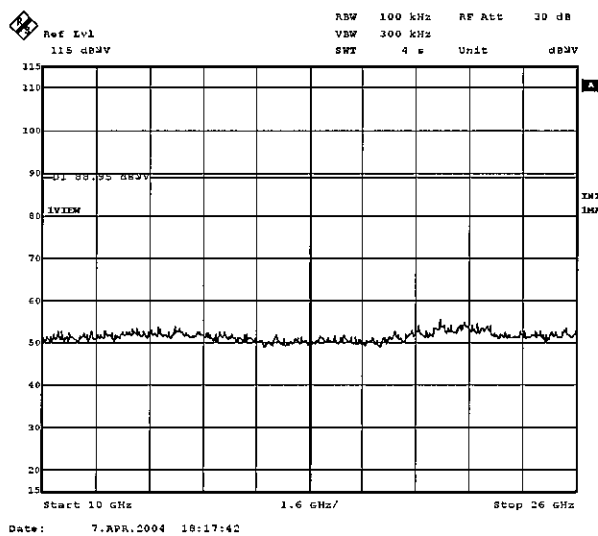
Ch 6: 2437MHz

4.

T. Amanna



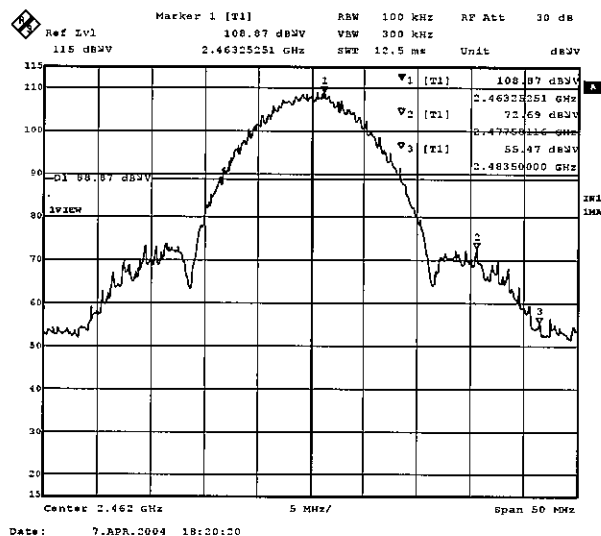
5.



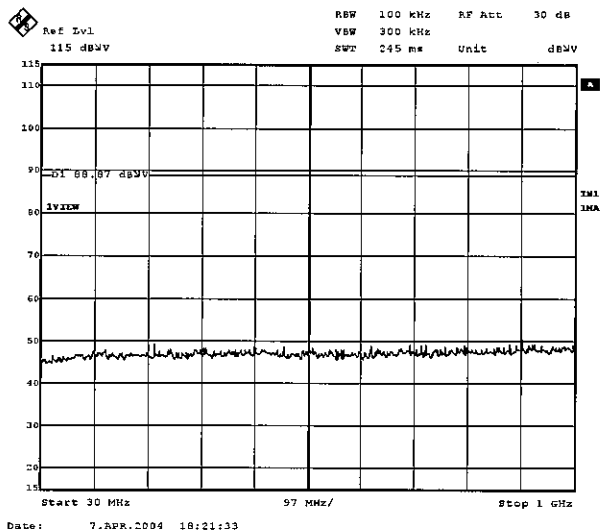
[IEEE802.11b Main Antenna Terminal]

Ch 11: 2462MHz

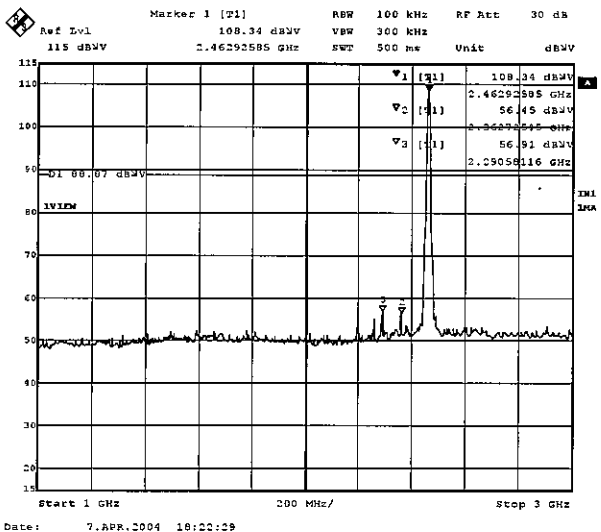
1.



2.



3.

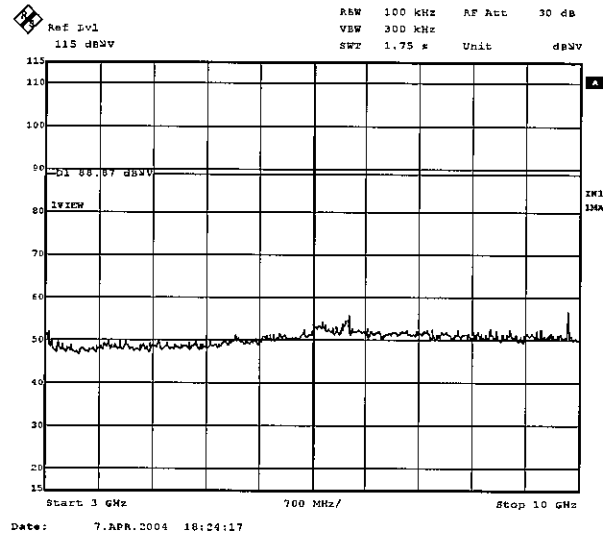


[IEEE802.11b Main Antenna Terminal]

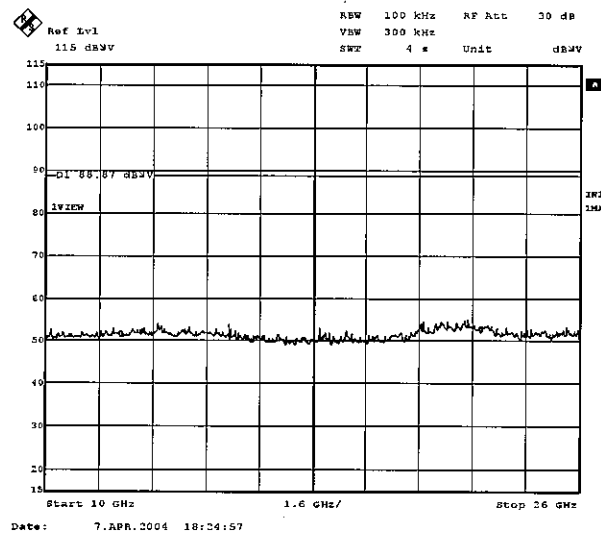
Ch 11: 2462MHz

4.

T. Amamura



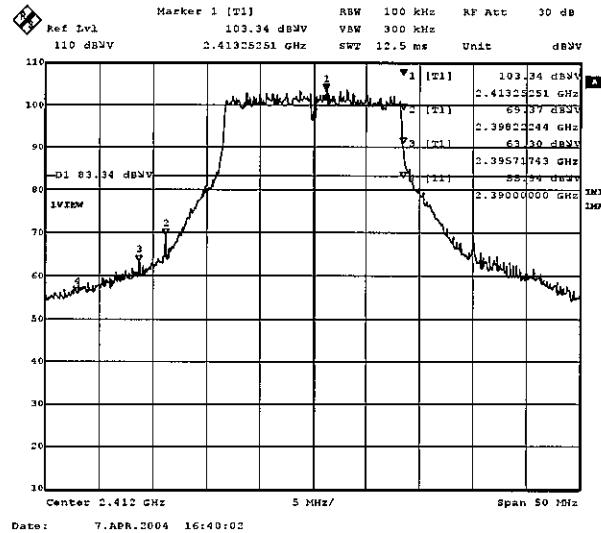
5.



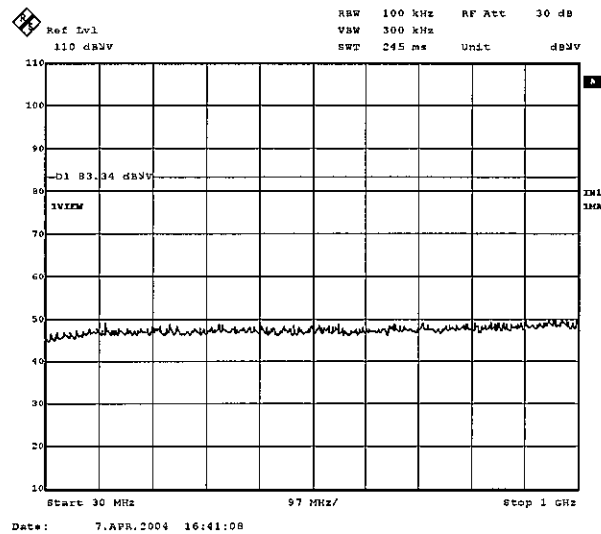
[IEEE802.11g Main Antenna Terminal]

Ch 1: 2412MHz

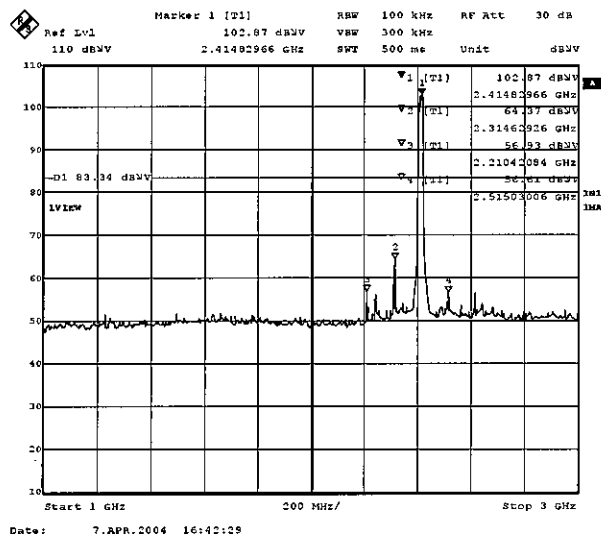
1.

T. Amamura

2.



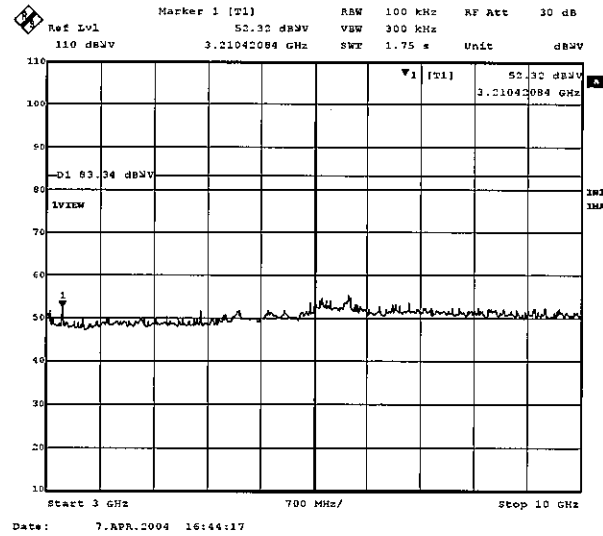
3.



[IEEE802.11g Main Antenna Terminal]

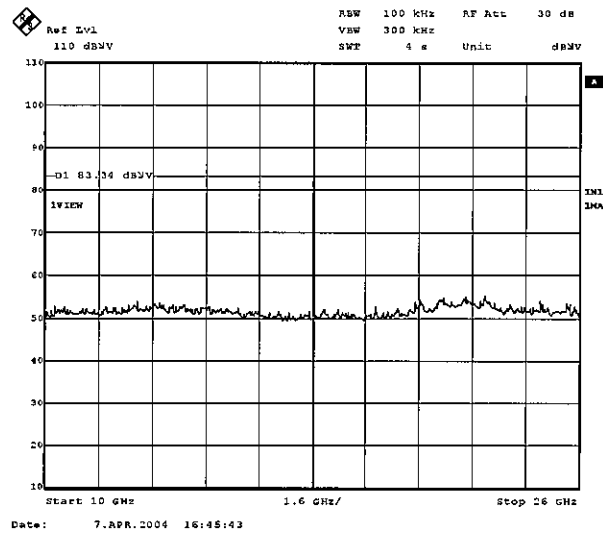
Ch 1: 2412MHz

4.



T. Amemura

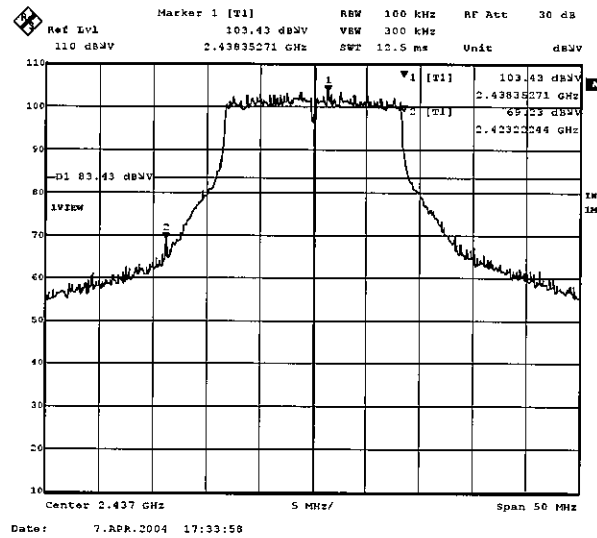
5.



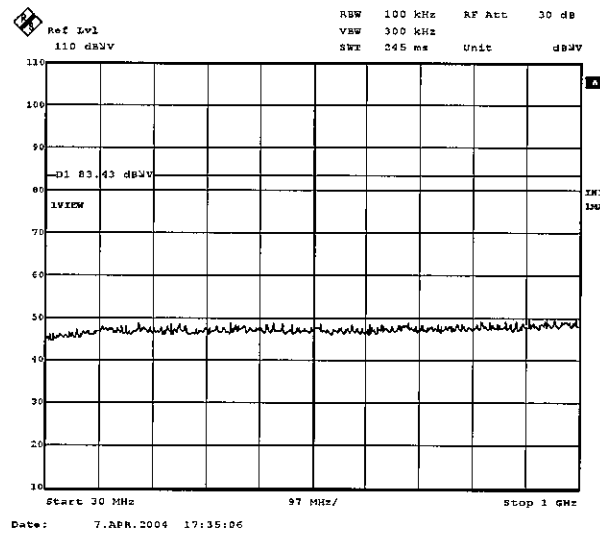
[IEEE802.11g Main Antenna Terminal]

Ch 6: 2437MHz

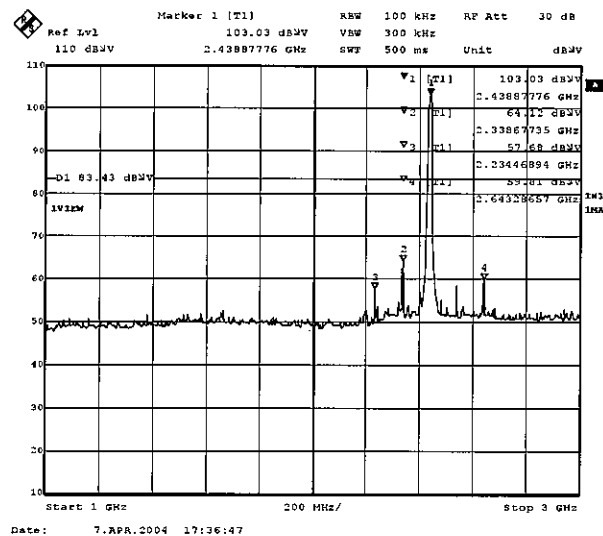
1.



2.



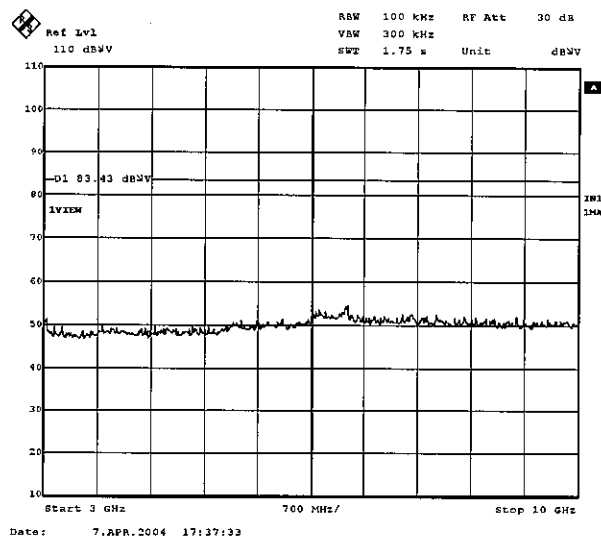
3.



[IEEE802.11g Main Antenna Terminal]

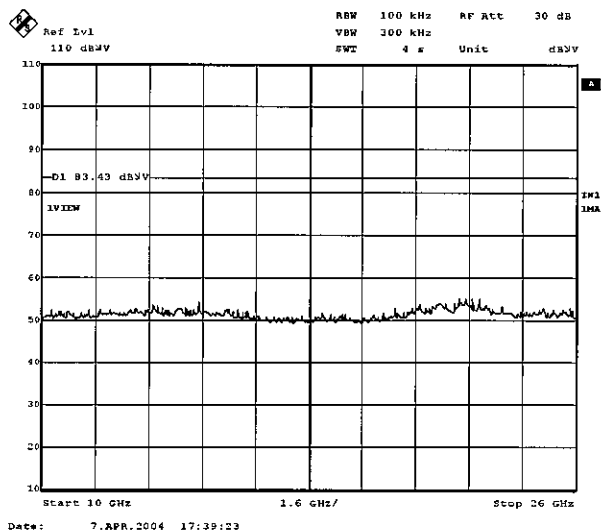
Ch 6: 2437MHz

4.



T. Amamura

5.

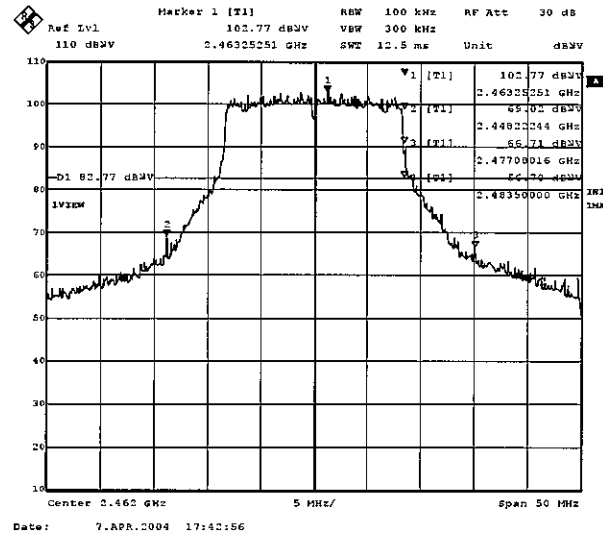


[IEEE802.11g Main Antenna Terminal]

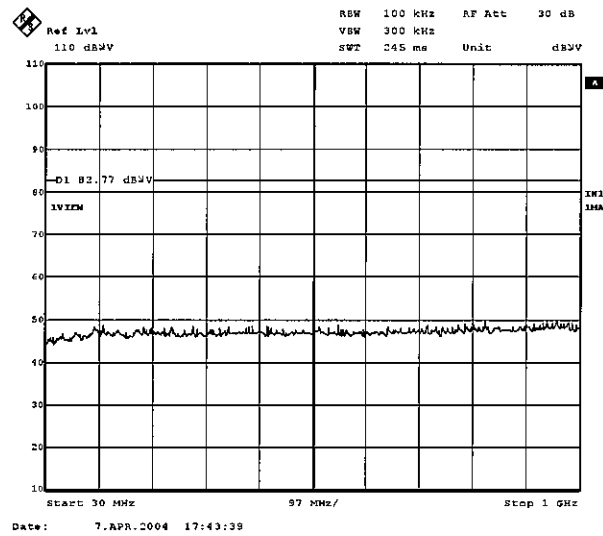
Ch 11: 2462MHz

1.

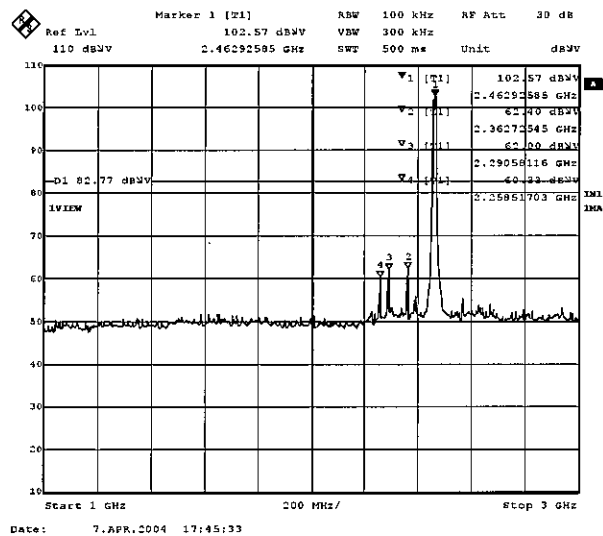
T. Amamura



2.



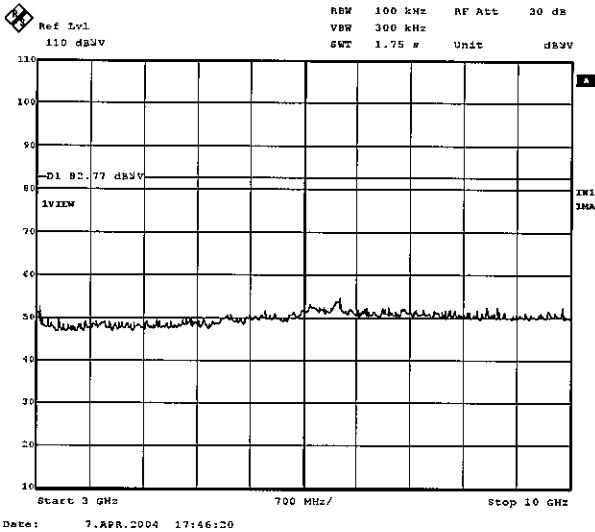
3.



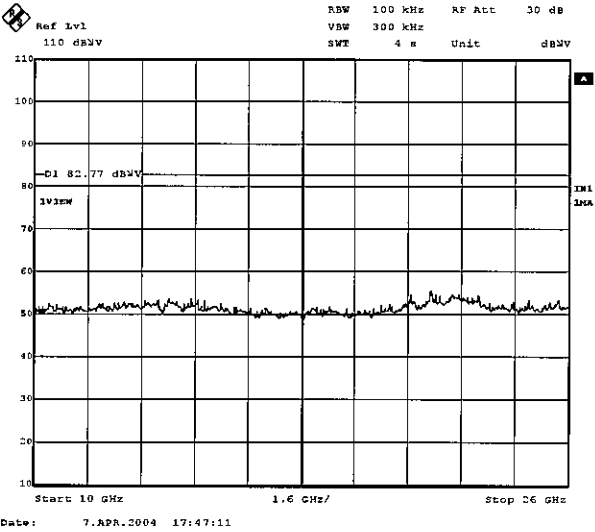
[IEEE802.11g Main Antenna Terminal]
Ch 11: 2462MHz

4.

T. Amamura



5.



Power Density (Conducted)

UL Apex Co., Ltd

YAMAKITA NO.4 Sheilded Room

COMPANY	: SONY Corporation.	REPORT NO	: 24GE0260-YK-1
EQUIPMENT	: Notebook Personal Computer	REGULATION	: Fcc Part15SubpartC 247(d)
MODEL	: PCG-6C1L	DATE	: 2004/ 04/07
FCC ID	: AK8PCG6C1L	Temp. /Humi.	: 20°C/53%
POWER	: AC120V/60Hz		
Mode	: Transmitting		

ENGINEER : Toyokazu Imamura

IEEE802.11b (11Mbps) Main

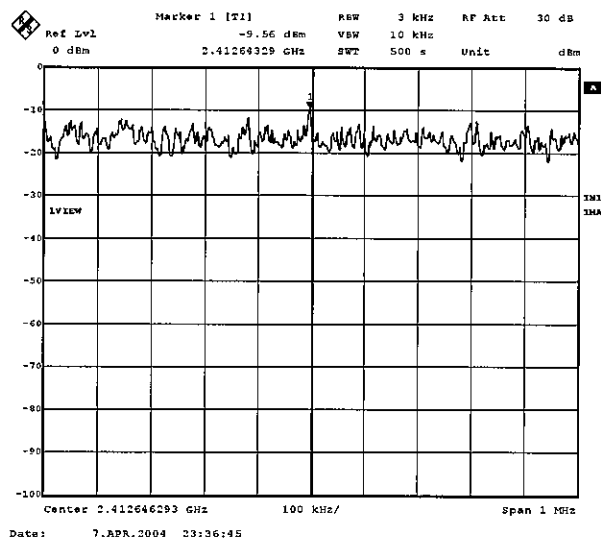
CH	FREQ	S/A Reading	Cable Loss	Results	Limit	MARGIN
	[GHz]	[dBm]	[dB]	[dBm]	[dBm]	[dB]
Low	2412.64329	-9.56	1.28	-8.28	8.0	16.3
Mid	2437.12525	-11.79	1.16	-10.63	8.0	18.6
High	2462.00301	-11.79	1.29	-10.5	8.0	18.5

IEEE802.11g (54Mbps) Main

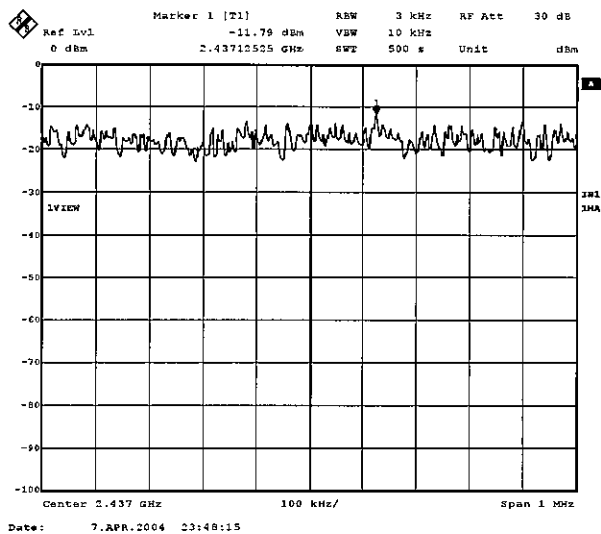
CH	FREQ	S/A Reading	Cable Loss	Results	Limit	MARGIN
	[GHz]	[dBm]	[dB]	[dBm]	[dBm]	[dB]
Low	2412.00501	-16.17	1.28	-14.89	8.0	22.9
Mid	2437.00501	-16.77	1.16	-15.61	8.0	23.6
High	2462.00501	-16.79	1.29	-15.5	8.0	23.5

[IEEE802.11b Main Antenna Terminal]

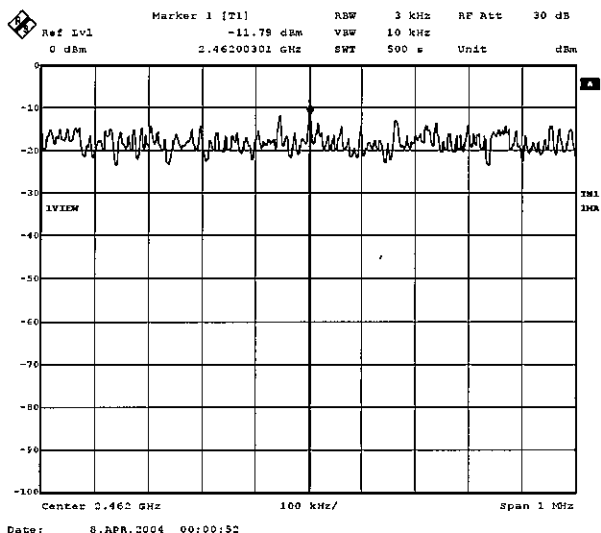
1. ch 1: 2412MHz

*T. Amamura*

2. ch 6: 2437MHz

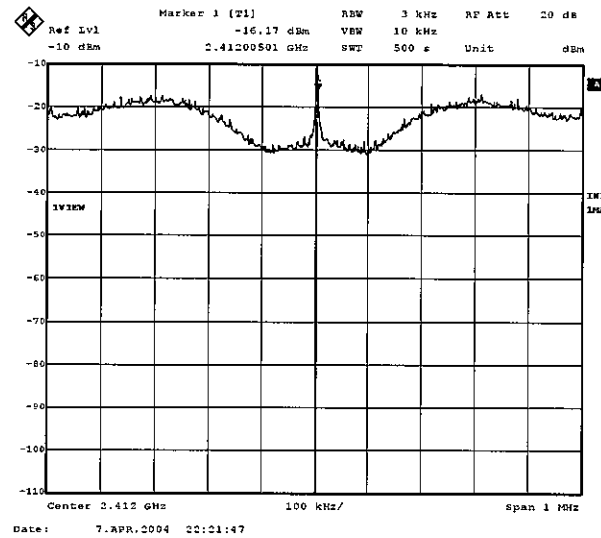


3. ch 11: 2462MHz

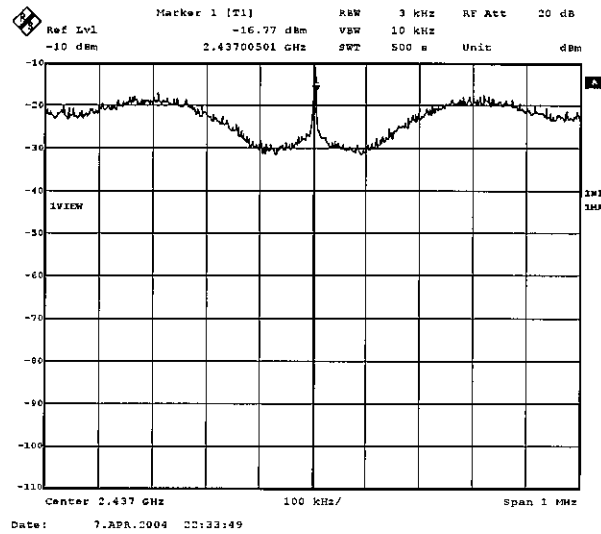


[IEEE802.11g Main Antenna Terminal]

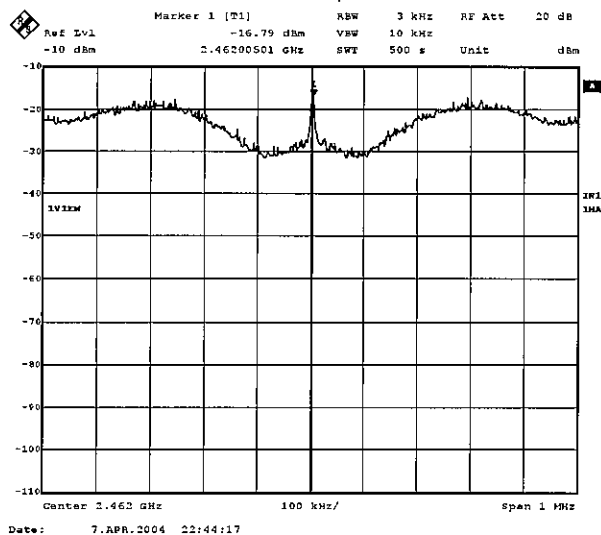
1. ch 1: 2412MHz

*T. Amamura*

2. ch 6: 2437MHz



3. ch 11: 2462MHz



Test Report No :24GE0260-YK-1

APPENDIX 3 Test Instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No.	Test Item	Calibration Date Interval(month)
KAEC-01(NSA)	Anechoic Chamber	JSE	Semi 3m	RE	2003/09/07 * 12
KAF-02	Pre Amplifier	Hewlett Packard	8449B	RE	2003/05/08 * 12
KAF-05	Pre Amplifier	Agilent	8447D	RE	2003/06/12 * 12
KAT10-S1	Attenuator	Agilent	8449D 010	RE	2003/04/18 * 12
KAT6-02	Attenuator	INMET	18N-6dB	RE	2003/05/12 * 12
KBA-03	Biconical Antenna	Schwarzbeck	BBA9106	RE	2004/01/31 * 12
KCC-30/31/32 /34	Coaxial Cable	Fujikura/Suhner	5D-2W/S04272B	RE	2004/01/29 * 12
KCC-D3/D7	Coaxial Cable	Rosenberger/Advantest	2201/JUN-08-01-06 1	RE	2003/04/18 * 12
KCC-D7	Coaxial Cable	Advantest	A01002	AT	2003/04/18 * 12
KCC-33/34	Coaxial Cable	Fujikura/Suhner	5D-2W/S04272B	CE	2004/01/29 * 12
KHA-01	Horn Antenna	A.H.Systems	SAS-200/571	RE	2003/08/11 * 12
KHA-03	Horn Antenna	EMCO	3160-09	RE	2003/04/23 * 12
KLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2004/01/31 * 12
KLS-06	LISN(AMN)	Schwarzbeck	NSLK8127	CE	2003/09/19 * 12
KPM-05	Power meter	Agilent	E4417A	AT	2004/02/26 * 12
KPSS-01	Power sensor	Agilent	E9327A	AT	2004/03/02 * 12
KSA-04	Spectrum Analyzer	Advantest	R3271A	CE/RE	2003/09/17 * 12
KTR-01	Test Receiver	Rohde & Schwarz	ES140	CE/RE/AT	2003/07/25 * 12
KFL-01	Highpass Filter	Hewlett Packard	84300 80038	RE	2003/04/18 * 12

All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

Test Item:

- CE: Conducted emission test,
- RE: Radiated emission test,
- AT: Antenna terminal conducted test