



# EMI TEST REPORT

**Test Report No. : 26CE0198-YK-1**

**Applicant** : Sony EMCS Corporation Saitama TEC  
**Type of Equipment** : Home AV Wireless System Transmitter  
**Model No.** : HWS-AV10T  
**FCC ID** : AK8HWSAV10T  
**Test Standard** : FCC Part15 Subpart C,  
Section 15.207, Section 15.247: 2005  
**Test Result** : Complied

1. This test report shall not be reproduced except in full, without the written approval of UL Apex Co., Ltd.
2. The results in this report apply only to the sample tested.
3. This equipment is in compliance with above regulation. We hereby certify that the data contain a true representation of the EMC profile.
4. The test results in this test report are traceable to the national or international standards.

**Date of test:** December 28, 2005 and January 6, 2006

**Tested by:** G. Ishiwata & M. Hosaka  
Go Ishiwata & Makoto Hosaka

**Approved by:** O. Watatani  
Osamu Watatani  
Site Manager of Yamakita EMC Lab.

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**YAMAKITA EMC LAB.**

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MF060b(01.06.05)

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## 1 Applicant Information

Company Name : Sony EMCS Corporation Saitama TEC  
Address : Shinagawa INTERCITY C Tower Shinagawa Tec.  
2-15-3 Konan Minato-ku, Tokyo, 108-6201 JAPAN  
Telephone Number : +81-3-5769-5640  
Facsimile Number : +81-3-5769-5962  
Contact Person : Kikuo Murata

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## 2 Product Description

Type of Equipment : Home AV Wireless System Transmitter  
Model No. : HWS-AV10T  
Serial No. : 51  
Rating : DC6V (AC120V/60Hz)  
Country of Manufacture : China  
Receipt Date of Sample : December 28, 2005  
Condition of EUT : Engineering prototype  
(Not for Sale: This sample is equivalent to mass-produced items.)

Model: HWS-AV10T (referred to as the EUT in this report) is a transmitter using 2408-2464 MHz and also a receiver using 433.92MHz of Home AV Wireless System HWS-AV10K.

### <Transmitter>

Frequency of operation : 2408-2464 MHz  
Other clock frequency : 7MHz (PLL), 4MHz (MPU)  
Type of modulation : PSK  
Antenna type : Integral antenna  
Antenna connector type : None  
Antenna gain : 1.65 dBi  
Mode of operation : Simplex

### <Receiver>

Frequency of operation : 433.92 MHz  
Local frequency : 431.7312 MHz  
Intermediate frequency : 2.1888 MHz  
Other clock frequency : 13.4916 MHz (RF IC)  
Type of modulation : ASK  
Antenna type : Integral antenna  
Antenna connector type : None  
Method of Frequency generation : Crystal

Emission designation : G1W  
Operation temperature range : 0 ~ 40 deg. C.

### \*FCC Part15.31 (e)

The HWS-AV10T provides the module with stable power supply (DC5V & 3V), and the power is not changed when voltage of the equipment is varied. Therefore, the equipment complies power supply regulation.

### \*FCC Part15.203

The transmitter and its antenna comply with this requirement since this antenna is built in the equipment and it cannot be replaced by end users.

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### 3 Test Specification, Procedures and Results

#### 3.1 Test specification

Test specification : FCC Part15 Subpart C: 2005  
 Title : FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional Radiators  
 Section 15.207 Conducted limits: 2005  
 Section 15.247 Operation within the bands 902-928MHz, 2400-2483.5MHz,  
 and 5725-5850MHz: 2005

#### 3.2 Procedures & Results

Item	Test Procedure	Specification	Remarks	Deviation	Worst Margin	Results
Conducted Emission	ANSI C63.4:2003 7. AC powerline conducted emission measurements	Section 15.207	-	N/A	4.8dB (2.5062MHz, L1, AV, Transmitting 2415MHz)	Complied
6dB Bandwidth	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247 (a)(2)	Conducted	N/A	*See data.	Complied
Maximum Peak Output Power	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247 (b)(3)	Conducted	N/A		Complied
Spurious Emission	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247 (d)	Conducted/ Radiated	N/A	Radiated: 3.2dB (24570.00MHz, AV, Vertical, Transmitting 2457MHz)	Complied
Power Density	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247 (e)	Conducted	N/A	*See data.	Complied

Note: UL Apex's EMI Work Procedures No.QPM05.

These tests were also referred to "Guidance on Measurement for Digital Transmission Systems Section15.247".

\* No addition, deviation or exclusion has been made from standards.

#### 3.3 Uncertainty

##### Conducted emission

The measurement uncertainty (with 95% confidence level) for this test is  $\pm 2.7$ dB.

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

##### Antenna port conducted test (Radio)

The measurement uncertainty (with 95% confidence level) for this test is  $\pm 0.4$ dB.

##### Radiated emission

The measurement uncertainty (with 95% confidence level) for this test using Biconical antenna is  $\pm 4.5$ dB.

The measurement uncertainty (with 95% confidence level) for this test using Logperiodic antenna is  $\pm 4.3$ dB.

The measurement uncertainty (with 95% confidence level) for this test using Horn antenna is  $\pm 5.2$ dB.

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

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### 3.4 Test Location

UL Apex Co., Ltd. Yamakita EMC Lab.  
907, Kawanishi, Yamakita-machi, Ashigarakami-gun, Kanagawa-ken 258-0124 JAPAN  
Telephone number : +81 465 77 1011  
Facsimile number : +81 465 77 2112  
NVLAP Lab. code : 200441-0

No. 1 test site has been fully described in a report submitted to FCC office, and accepted on August 26, 2005 (Registration No.: 95486).  
IC Registration No. : IC3489A

No. 2 test site has been fully described in a report submitted to FCC office, and accepted on April 4, 2005 (Registration No.: 466226).  
IC Registration No. : IC3489A-2

No. 1 anechoic chamber has been fully described in a report submitted to FCC office, and accepted on November 2, 2005 (Registration No.: 95967).  
IC Registration No. : IC3489A-B

Test room	Width x Depth x Height (m)	Test room	Width x Depth x Height (m)
No.1 shielded room	8.0 x 5.0 x 2.5	No.1 EMS lab. (Semi-anechoic chamber)	10.0 x 7.5 x 5.7
No.2 shielded room	5.0 x 4.0 x 2.5		
No.3 shielded room	4.0 x 5.0 x 2.7		

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## 4 System Test Configuration

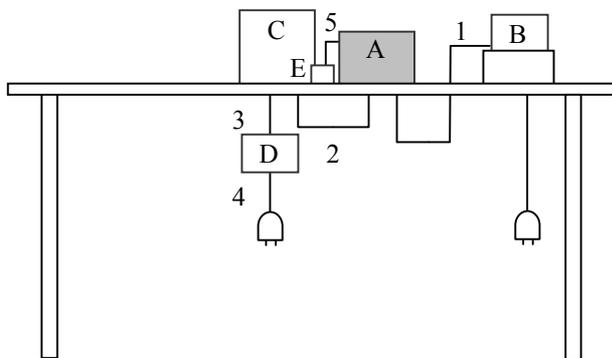
### 4.1 Justification

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

Test mode: Transmitting mode (2415MHz, 2429MHz, 2457MHz)  
 Audio and video signal which is input to the EUT causes RF signal.

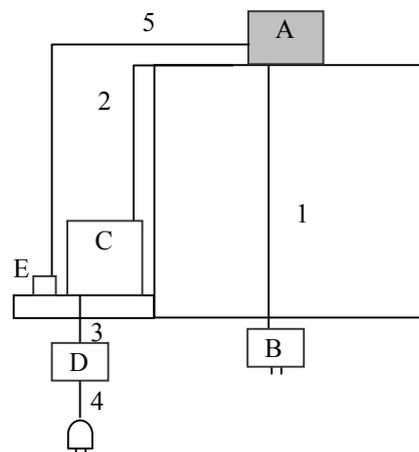
### 4.2 Configuration of Tested System

Front View (Conducted emission)

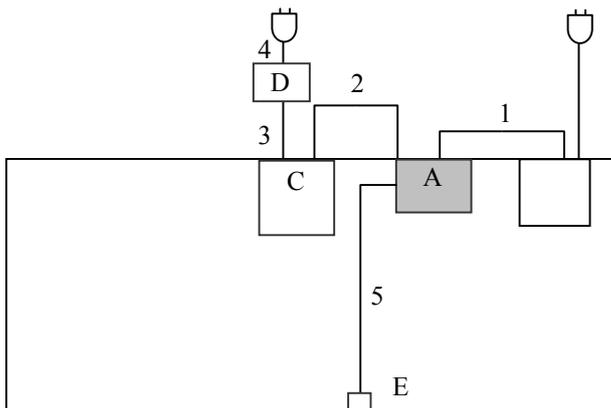


AC120V/60Hz

Front View (Radiated emission)

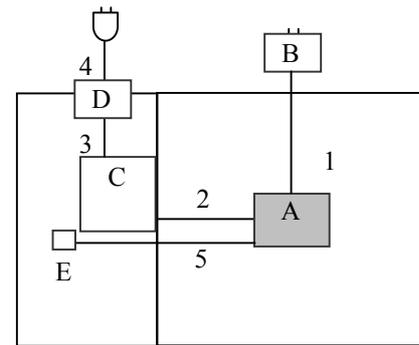


Top View (Conducted emission)



Top View (Radiated emission)

AC120V/60Hz



\* Test data was taken under worse case conditions.

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**Description of EUT and support equipment**

No.	Item	Model number	Serial number	Manufacturer	FCC ID (Remarks)
A	Home AV Wireless System Transmitter	HWS-AV10T	51	SONY	AK8HWSAV10T (EUT)
B	AC Adaptor	AC-ES608K3	-	SONY	-
C	Portable DVD Player	DVP-FX1	-	SONY	-
D	AC Adaptor	AC-FX1	-	SONY	-
E	Remote Control Extender	-	-	SONY	-

**List of cables used**

No.	Name	Length (m)	Shield	Remark
1	DC cable	2.2	Unshielded	-
2	Audio cable	1.1	Unshielded	-
3	DC cable	1.8	Unshielded	-
4	AC cable	1.8	Unshielded	-
5	Remote Control Extender cable	1.4	Unshielded	-

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## 5 Conducted Emissions

### 5.1 Operating environment

The test was carried out in No.2 shielded room.

### 5.2 Test configuration

EUT was placed on a platform of nominal size, 1m by 1.8m, raised 80cm above the conducting ground plane. The rear of tabletop was located 40cm to the vertical conducting plane. The rear of EUT, including peripherals was 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 a Line Impedance Stabilization Network (LISN) and excess AC cable was bundled in center. I/O cable were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30cm to 40cm long and were hanged at a 40cm height to the ground plane.

### 5.3 Test conditions

Frequency range : 0.15 - 30MHz  
EUT operation mode : Transmitting

### 5.4 Test procedure

The EUT was connected to a LISN (AMN).

An overview sweep with peak detection has been performed.

The Conducted emission measurements were made with the following detector function of the test receiver.

Detector: QP/AV  
IF Bandwidth: 9kHz

### 5.5 Results

Summary of the test results : Pass  
Test data : APPENDIX 2 Page 15 to 19

Date : January 6, 2006 Test engineer : Makoto Hosaka

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## 6 6dB Bandwidth

### Test Procedure

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

Summary of the test results: Pass  
Date : January 6, 2006

Test data: APPENDIX 2 Page 20  
Test engineer : Makoto Hosaka

## 7 Maximum Peak Output Power

### Test Procedure

The maximum peak output power was measured with a spectrum analyzer connected to the antenna port.

Summary of the test results: Pass  
Date : January 6, 2006

Test data: APPENDIX 2 Page 21 to 22  
Test engineer : Makoto Hosaka

## 8 Out of Band Emissions (Antenna Port Conducted)

### Test Procedure

The out of band emissions were measured with a spectrum analyzer connected to the antenna port.

Summary of the test results: Pass  
Date : January 6, 2006

Test data: APPENDIX 2 Page 23 to 28  
Test engineer : Makoto Hosaka

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## 9 Out of Band Emissions (Radiated)

### 9.1 Operating environment

The test was carried out in No.1 open site.

### 9.2 Test configuration

EUT was placed on a platform of nominal size, 0.5m by 0.5m, raised 80cm above the conducting ground plane. A drawing of the set up is shown in the photos of Appendix 1.

### 9.3 Test conditions

Frequency range : 30MHz - 26.5GHz  
Test distance : 3m  
EUT operation mode : Transmitting

### 9.4 Test procedure

The Radiated Electric Field Strength intensity has been measured 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.

The measurements were performed for both vertical and horizontal antenna polarization.

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.

Measurements were performed with QP, PK, and AV detector.

The radiated emission measurements were made with the following detector function of the test receiver.

Frequency	Below 1GHz	Above 1GHz
Instrument used	Test Receiver	Spectrum Analyzer
Detector	QP: BW 120kHz	PK: RBW: 1MHz/VBW: 1MHz
IF Bandwidth		AV: RBW: 1MHz/VBW: 10Hz

When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

### 9.5 Results

Summary of the test results : Pass  
: APPENDIX 2 Page 29 to 37

Date : December 28, 2005 Test engineer : Go Ishiwata

## 10 Peak Power Density

### Test Procedure

The peak power density was measured with a spectrum analyzer connected to the antenna port.

Summary of the test results: Pass Test data: APPENDIX 2 Page 38 to 39  
Date : January 6, 2006 Test engineer : Makoto Hosaka

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### **APPENDIX 1: Photographs of test setup**

Page 13 : Conducted emission  
Page 14 : Radiated emission

### **APPENDIX 2: Test Data**

Page 15 - 19 : Conducted emission  
Page 20 : 6dB Bandwidth  
Page 21 - 22 : Maximum Peak Output Power  
Page 23 - 28 : Out of Band Emissions (Antenna Port Conducted)  
Page 29 - 37 : Out of Band Emissions (Radiated)  
29-31 : 30-1000MHz  
32-37 : 1-26.5GHz  
Page 38 - 39 : Peak Power Density  
Page 40 : Occupied Bandwidth

### **APPENDIX 3: Test instruments**

Page 41 : Test instruments

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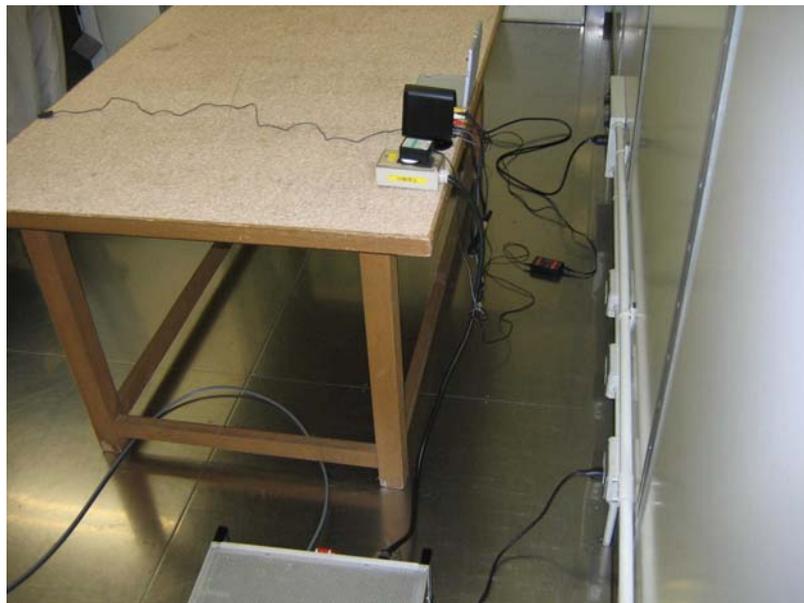
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## Conducted emission



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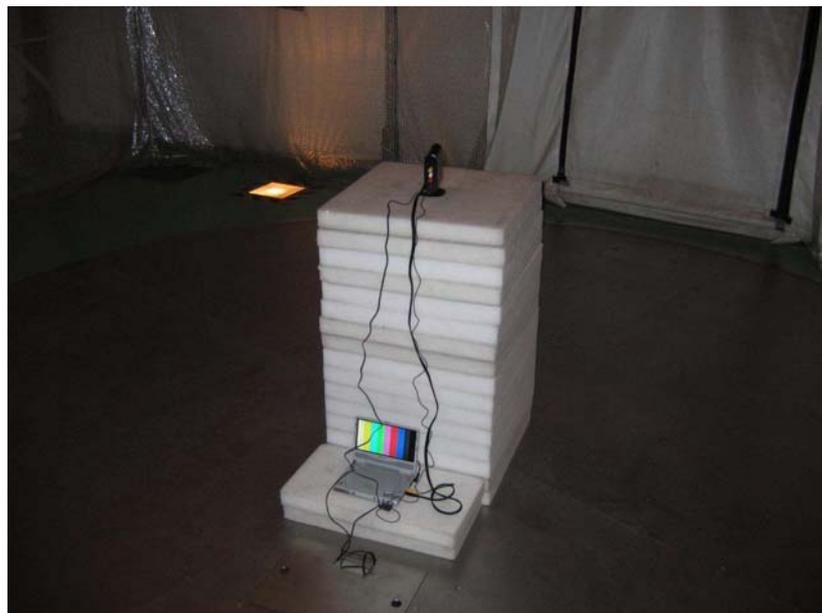
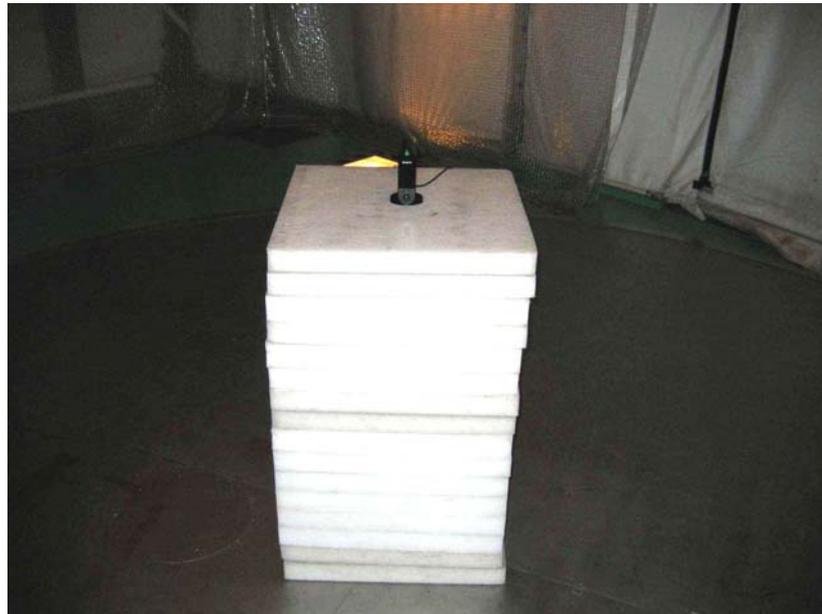
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**Radiated emission**



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# DATA OF CONDUCTION TEST

UL Apex Co.,Ltd.

YAMAKITA No.2 SHIELD ROOM

Report No. : 26CE0198-YK - 1

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Home AV Wireless System Transmitter  
 Model No. : HWS-AV10T  
 Serial No. : 51  
 Power : AC120V/60Hz (DC6V)  
 Mode : Transmitting (2415MHz)  
 Remarks :  
 Date : 1/6/2006  
 Phase : Single Phase  
 Temperature : 20 °C  
 Humidity : 27 %  
 Regulation : FCC Part15C s 15. 207. (CISPR Pub. 22 )

Engineer : Makoto Hosaka

No.	FREQ. [MHz]	READING(N)		READING(L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dB μ V]	AV	QP [dB μ V]	AV				QP [dB]	AV [dB μ V]	QP [dB μ V]	AV [dB μ V]	QP [dB]	AV [dB]
1.	0.2035	47.6	35.1	46.9	32.9	0.1	0.1	0.0	47.8	35.3	63.5	53.5	15.7	18.2
2.	0.3017	37.0	-	39.3	-	0.1	0.1	0.0	39.5	-	60.2	50.2	20.7	-
3.	0.5225	39.4	-	39.2	-	0.1	0.1	0.0	39.6	-	56.0	46.0	16.4	-
4.	0.8348	39.5	36.9	40.1	37.6	0.1	0.1	0.0	40.3	37.8	56.0	46.0	15.7	8.2
5.	1.8795	40.4	37.6	41.4	38.6	0.1	0.2	0.0	41.7	38.9	56.0	46.0	14.3	7.1
6.	2.5062	41.8	39.6	43.2	40.8	0.2	0.2	0.0	43.6	41.2	56.0	46.0	12.4	4.8
7.	3.2382	42.3	36.2	42.2	36.1	0.2	0.2	0.0	42.7	36.6	56.0	46.0	13.3	9.4

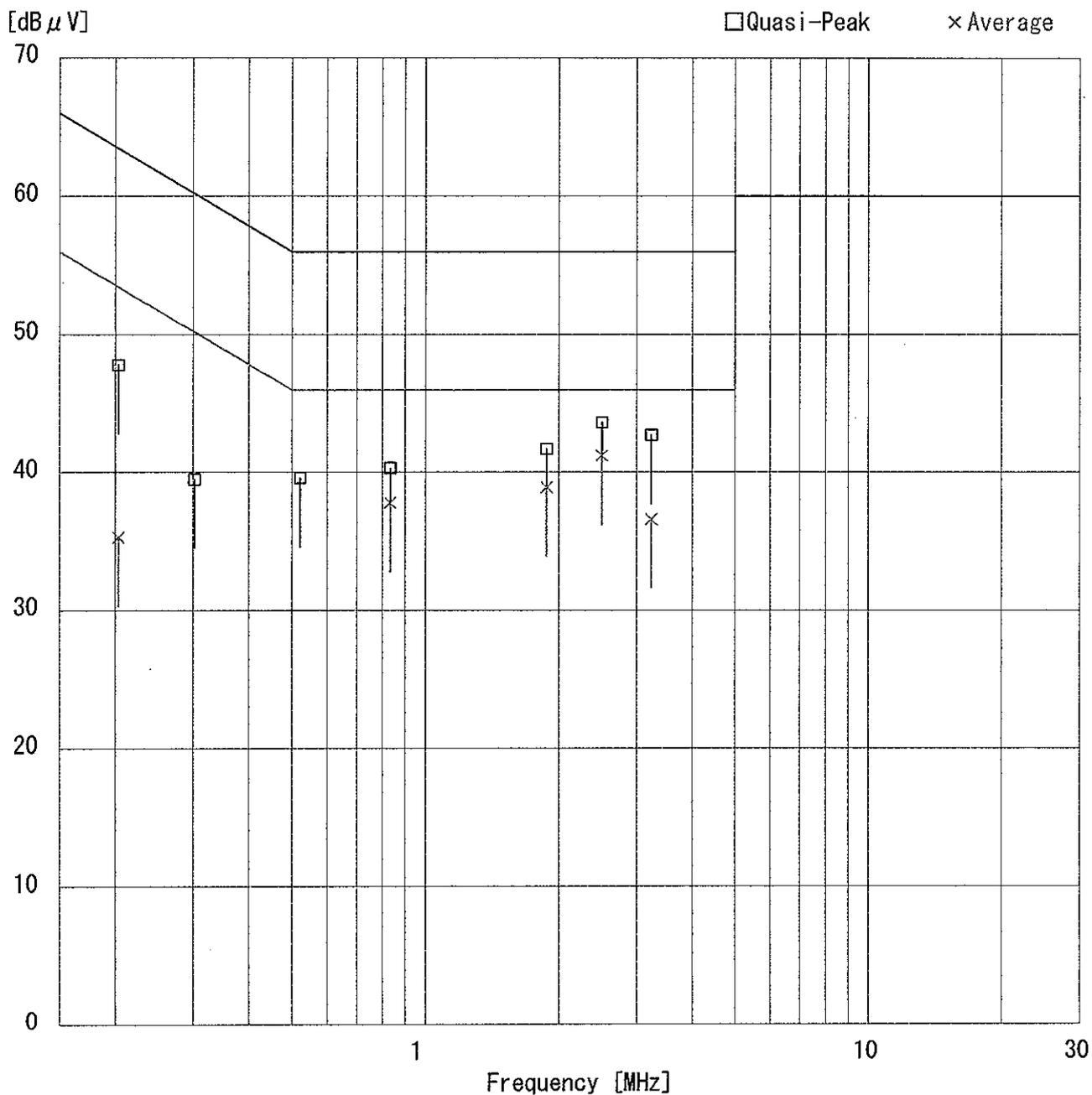
CALCULATION: READING + LISN FACTOR + CABLE LOSS + ATTEN.

■ LISN: KLS-05 (NSLK8126)    ■ COAXIAL CABLE: KCC-33/34  
 ■ EMI RECEIVER: KTR-01 (ES140)

# DATA OF CONDUCTION TEST

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YAMAKITA No.2 SHIELD ROOM  
Report No. : 26CE0198-YK-1

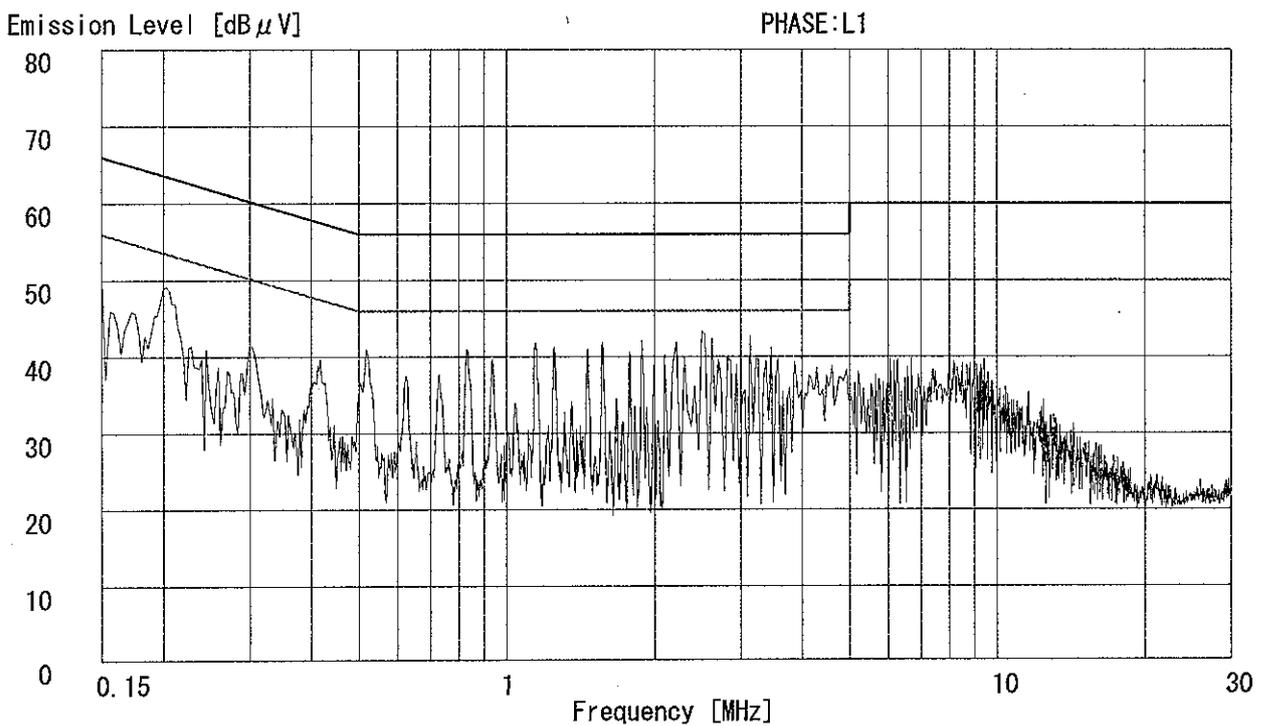
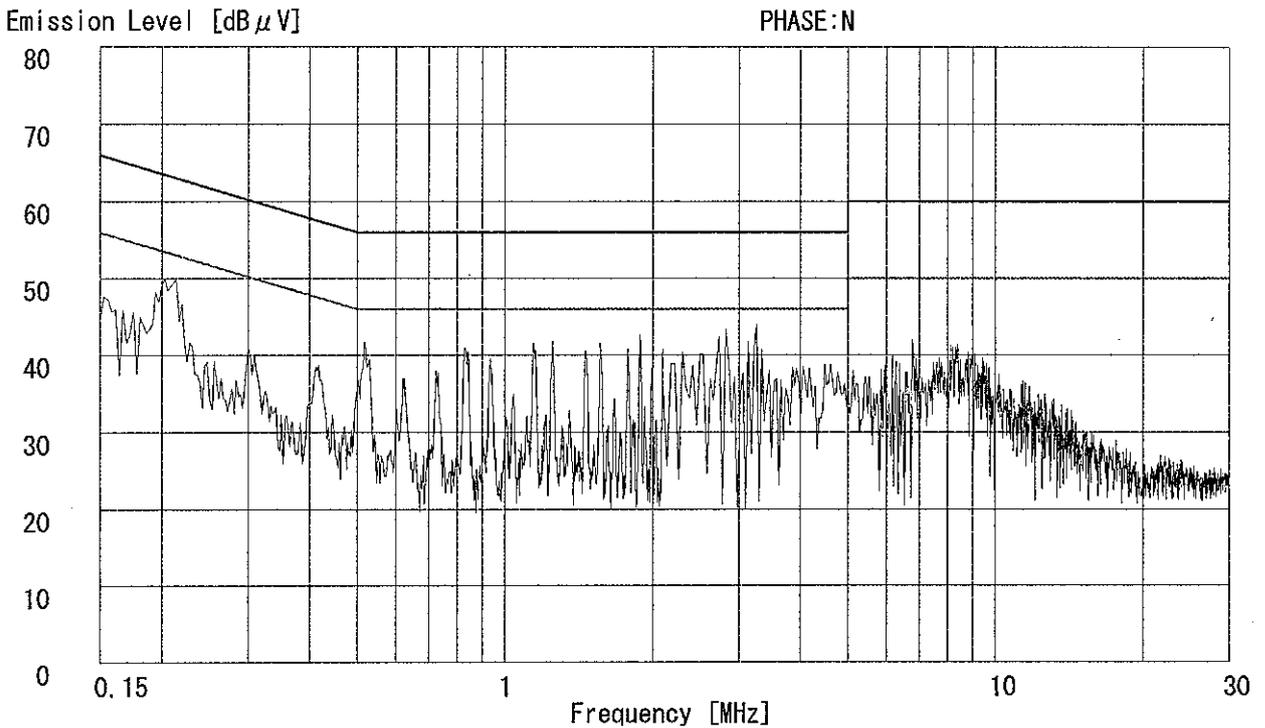
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Kind of Equipment	: Home AV Wireless System Transmitter	
Model No.	: HWS-AV10T	
Serial No.	: 51	
Power	: AC120V/60Hz (DC6V)	
Mode	: Transmitting(2415MHz)	
Remarks	:	
Date	: 1/6/2006	
Phase	: Single Phase	
Temperature	: 20 °C	Engineer : Makoto Hosaka
Humidity	: 27 %	
Regulation	: FCC Part15C § 15. 207. (CISPR Pub. 22 )	



# DATA OF CONDUCTION TEST CHART

UL Apex Co.,Ltd.  
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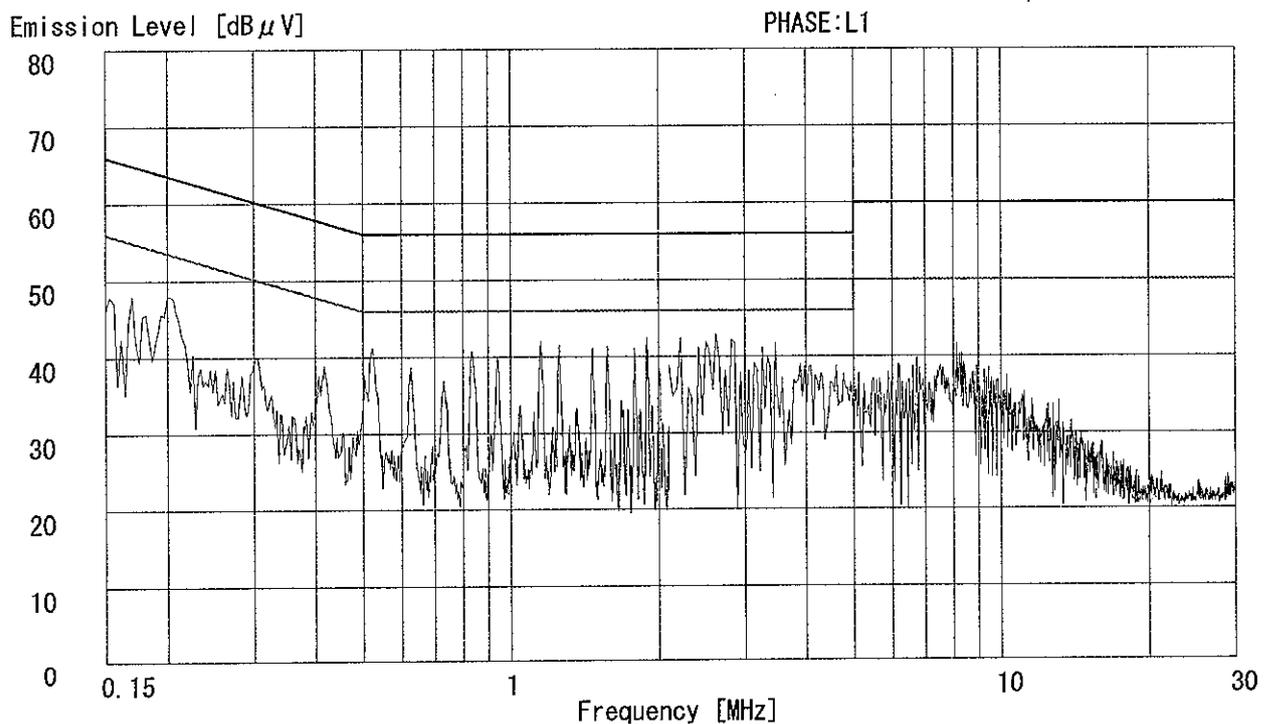
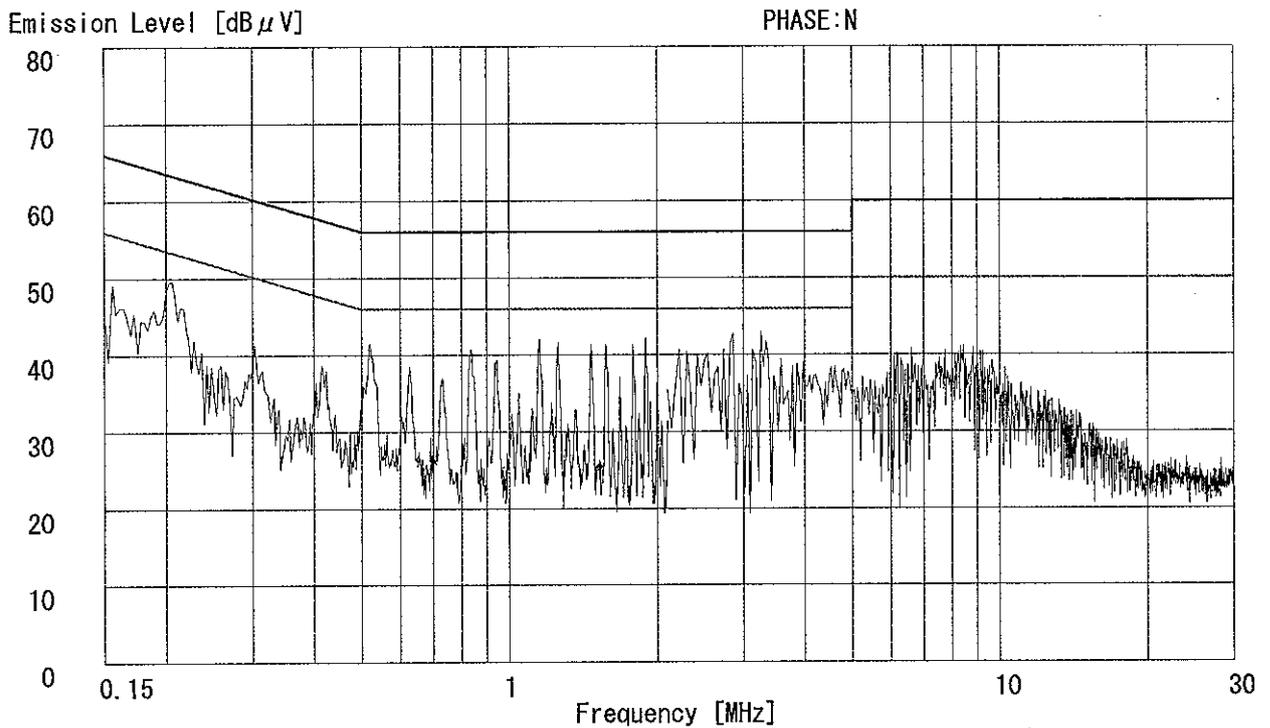
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Mode : Transmitting (2415MHz)  
Remarks :  
Date : 1/6/2006  
Phase : Single Phase  
Temperature : 20 °C  
Humidity : 27 %  
Regulation 1 : FCC Part15C § 15. 207. (CISPR Pub. 22 )  
Regulation 2 : None  
Engineer : Makoto Hosaka



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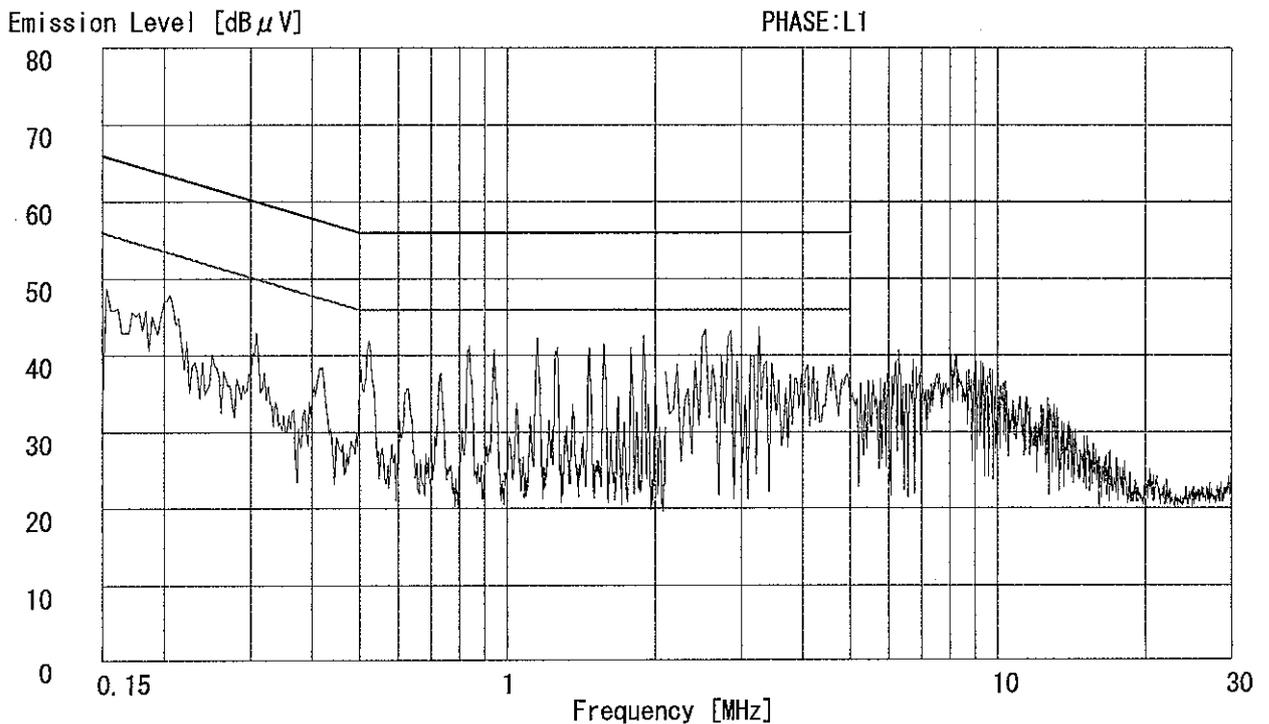
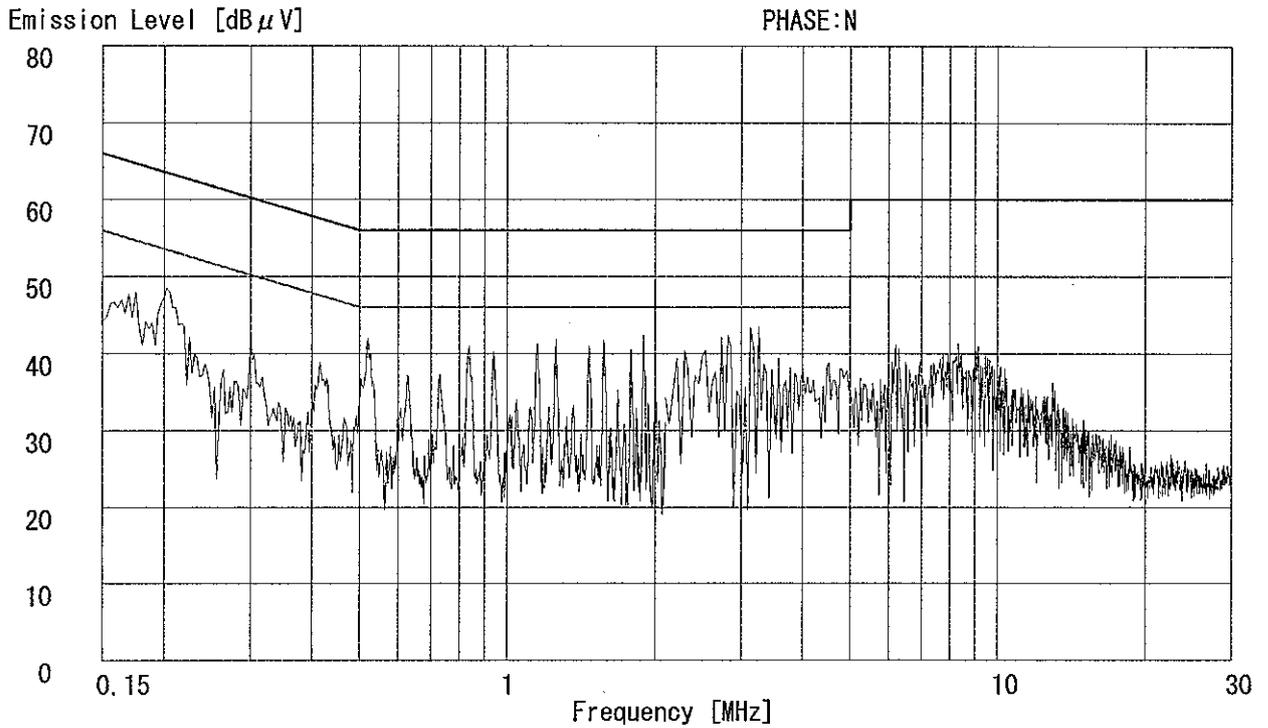
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Serial No. : 51  
Power : AC120V/60Hz (DC6V)  
Mode : Transmitting (2429MHz)  
Remarks :  
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Phase : Single Phase  
Temperature : 20 °C  
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Regulation 2 : None  
Engineer : Makoto Hosaka



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Serial No. : 51  
Power : AC120V/60Hz (DC6V)  
Mode : Transmitting(2457MHz)  
Remarks :  
Date : 1/6/2006  
Phase : Single Phase  
Temperature : 20 °C  
Humidity : 27 %  
Regulation 1 : FCC Part15C § 15.207. (CISPR Pub.22 )  
Regulation 2 : None  
Engineer : Makoto Hosaka

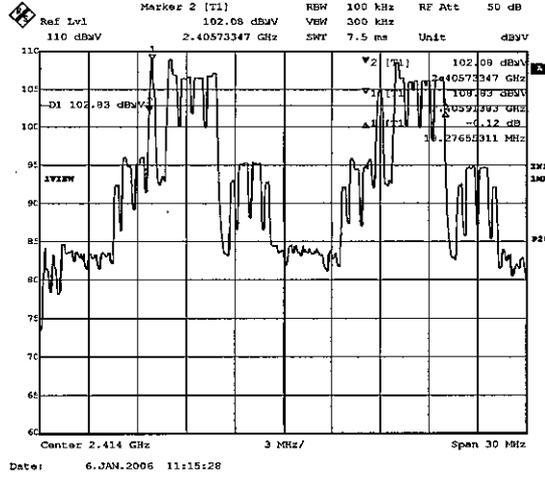


**6dB Bandwidth: FCC 15.247(a)(2)**

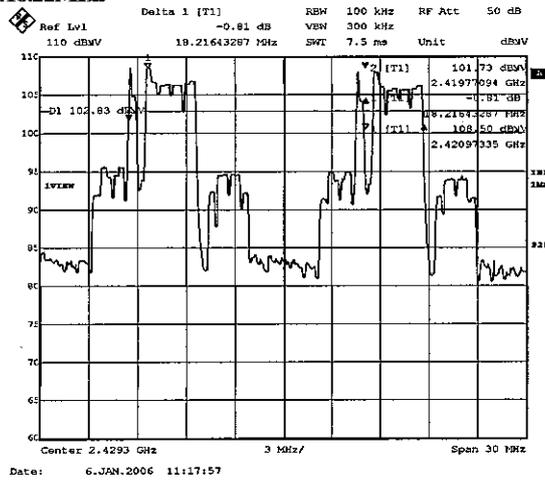
COMPANY : Sony EMCS Corporation Saitama TEC  
 EQUIPMENT : Home AV Wireless System Transmitter  
 MODEL NUMBER: HWS-AV10T  
 SERIAL NUMBER: 51  
 FCC ID : AK8HWSAV10T  
 POWER : AC120V/60Hz(DC6V)

UL Apex Co.,Ltd. Yamakita No.2 Shielded Room  
 REPORT NO : 26CE0198-YK  
 REGULATION : FCC Part15SubpartC 247(a)(2)  
 DATE : 2006/01/06  
 TEMP./HUMI : 20°C/29%  
 TEST MODE : Transmitting  
 ENGINEER : Makoto Hosaka

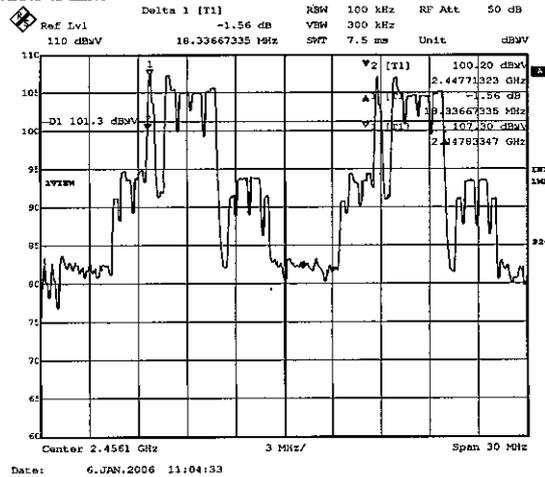
**1. ch 1: 2415MHz/6dB Bandwidth:18.28MHz**



**2. ch 2: 2429MHz/6dB Bandwidth:18.22MHz**



**3. ch 4: 2457MHz/6dB Bandwidth:18.34MHz**



# Maximum Peak Conducted Output Power

UL Apex Co.,Ltd  
YAMAKITA NO.2 Shielded Room

COMPANY : Sony EMCS Corporation Saitama TEC REPORT NO : 26CE0198-YK-1  
EQUIPMENT : Home AV Wireless System Transmitter REGULATION : Fcc Part15SubpartC 247(b)(3)  
MODEL NUMBE: HWS-AV10T DATE : 2006/01/06  
SERIAL NUMBE: 51 TEMP./HUMI : 20°C/29%  
FCC ID : AK8HWSAV10T  
POWER : AC120V/60Hz(DC6V)  
TEST MODE : Transmitting

ENGINEER : Makoto Hosaka

CH	FREQ [MHz]	S/A Reading *1,*2 [dBm]	Cable Loss [dB]	Results [dBm]	Limit (1W) [dBm]	MARGIN [dB]
Low	2415.00	17.19	0.50	17.69	30.0	12.31
Mid	2429.00	16.94	0.50	17.44	30.0	12.56
High	2457.00	16.39	0.50	16.89	30.0	13.11

\*1 S/A: Spectrum Analyzer

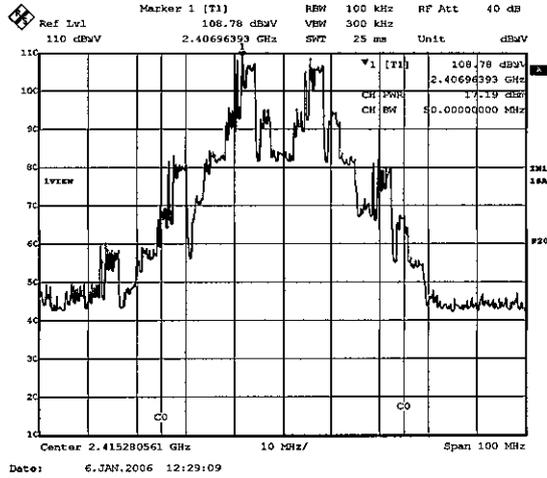
\*2 Test was performed using the function of the spectrum analyzer measuring of channel power.

# Maximum Peak Conducted Output Power: FCC 15.247(b)(3)

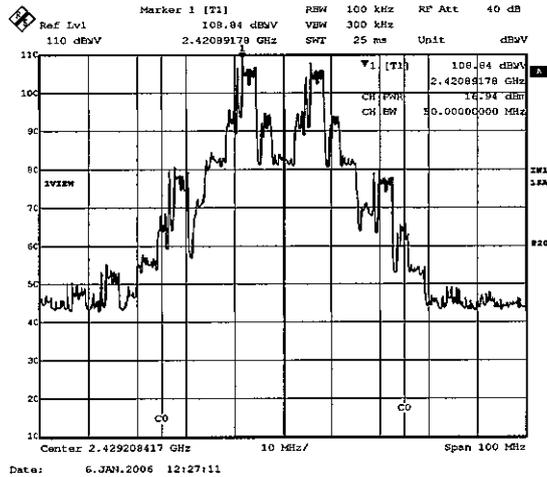
**COMPANY** : Sony EMCS Corporation Saitama TEC  
**EQUIPMENT** : Home AV Wireless System Transmitter  
**MODEL NUMBER**: HWS-AV10T  
**SERIAL NUMBER**: 51  
**FCC ID** : AK8HWSAV10T  
**POWER** : AC120V/60Hz(DC6V)

**UL Apex Co.,Ltd. Yamakita No.2 Shielded Room**  
**REPORT NO** : 26CE0198-YK  
**REGULATION** : Fcc Part15SubpartC 247(b)(3)  
**DATE** : 2006/01/06  
**TEMP./HUMI** : 20°C/29%  
**TEST MODE** : Transmitting  
**ENGINEER** : Makoto Hosaka

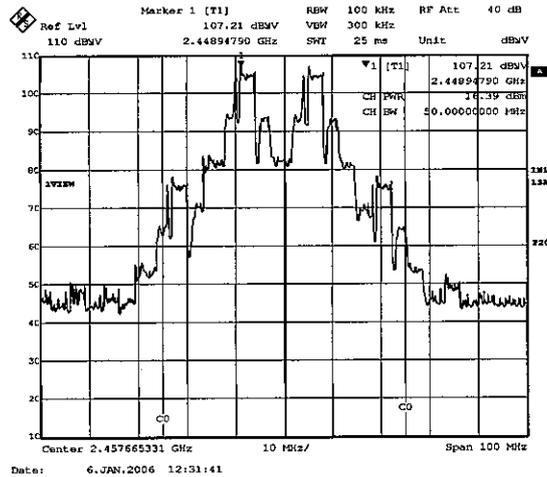
## 1. ch1: 2415MHz



## 2. ch2: 2429MHz



## 3. ch4: 2457MHz



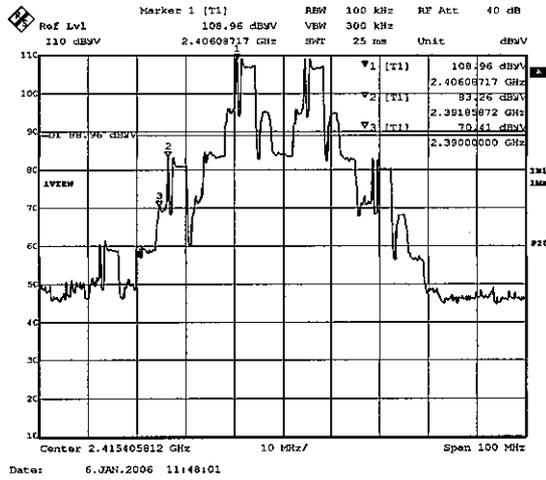
**Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)**

COMPANY : Sony EMCS Corporation Saitama TEC  
 EQUIPMENT : Home AV Wireless System Transmitter  
 MODEL NUMBER: HWS-AV10T  
 SERIAL NUMBER: 51  
 FCC ID : AK8HWSAV10T  
 POWER : AC120V/60Hz(DC6V)

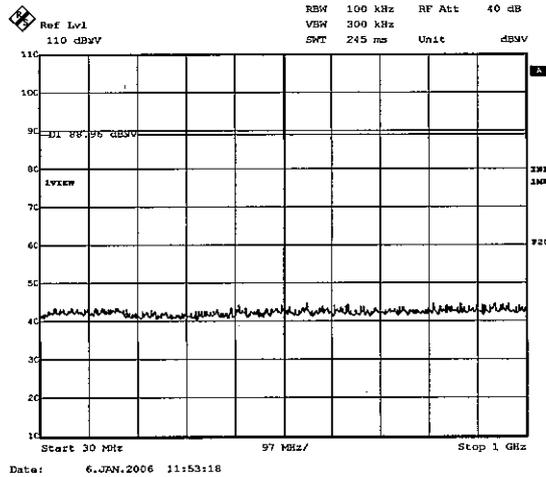
REPORT NO : 26CE0198-YK **1**  
 REGULATION : FCC Part15SubpartC 247(d)  
 DATE : 2006/01/06  
 TEMP./HUMI : 20°C/29%  
 TEST MODE : Transmitting  
 ENGINEER : Makoto Hosaka

**Ch1:2415MHz**

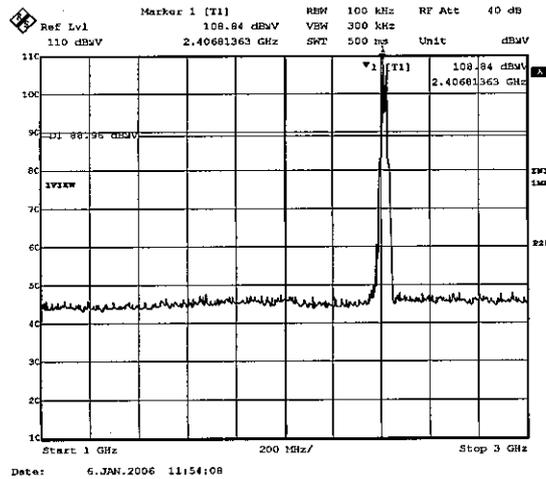
1.



2.



3.

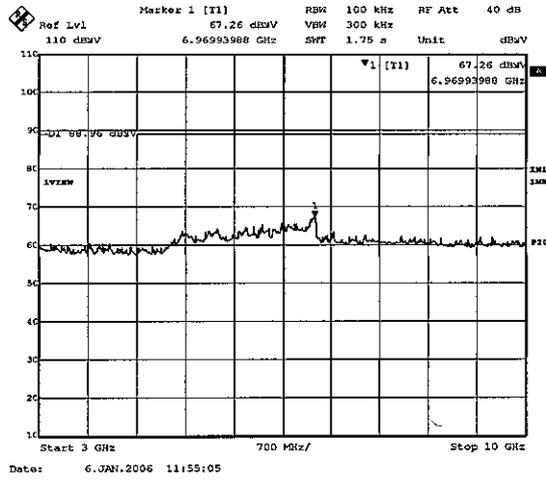


**Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)**

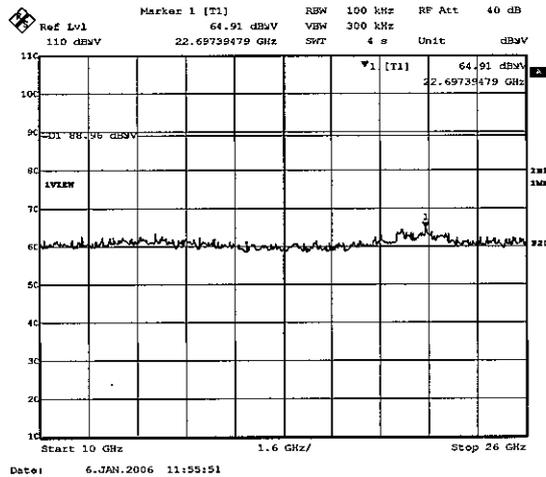
<b>COMPANY</b>	: Sony EMCS Corporation Saitama TEC	<b>REPORT NO</b>	: 26CE0198-YK - 1
<b>EQUIPMENT</b>	: Home AV Wireless System Transmitter	<b>REGULATION</b>	: FCC Part15SubpartC 247(d)
<b>MODEL NUMBER</b>	: HWS-AV10T	<b>DATE</b>	: 2006/01/06
<b>SERIAL NUMBER</b>	: 51	<b>TEMP./HUMI</b>	: 20°C/29%
<b>FCC ID</b>	: AK8HWSAV10T	<b>TEST MODE</b>	: Transmitting
<b>POWER</b>	: AC120V/60Hz(DC6V)	<b>ENGINEER</b>	: Makoto Hosaka

Ch1:2415MHz

4.



5.

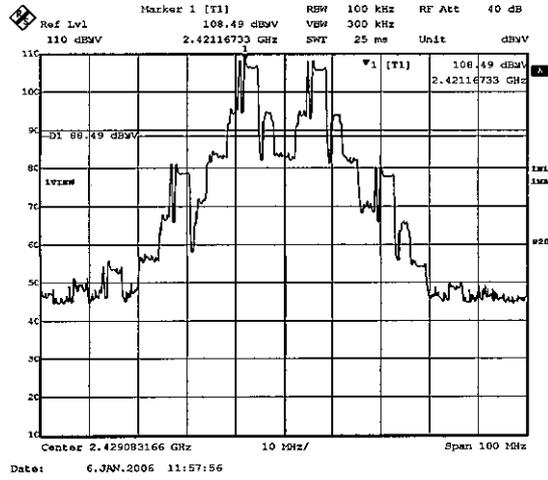


# Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

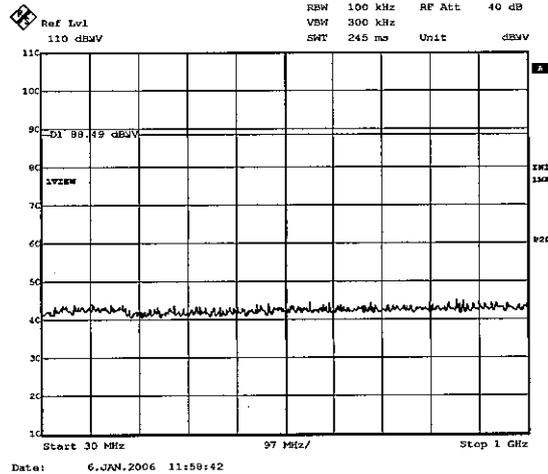
COMPANY	: Sony EMCS Corporation Saitama TEC	REPORT NO	: 26CE0198-YK - 1
EQUIPMENT	: Home AV Wireless System Transmitter	REGULATION	: FCC Part15SubpartC 247(d)
MODEL NUMBER	: HWS-AV10T	DATE	: 2006/01/06
SERIAL NUMBER	: 51	TEMP./HUMI	: 20°C/29%
FCC ID	: AK8HWSAV10T	TEST MODE	: Transmitting
POWER	: AC120V/60Hz(DC6V)	ENGINEER	: Makoto Hosaka

## Ch2:2429MHz

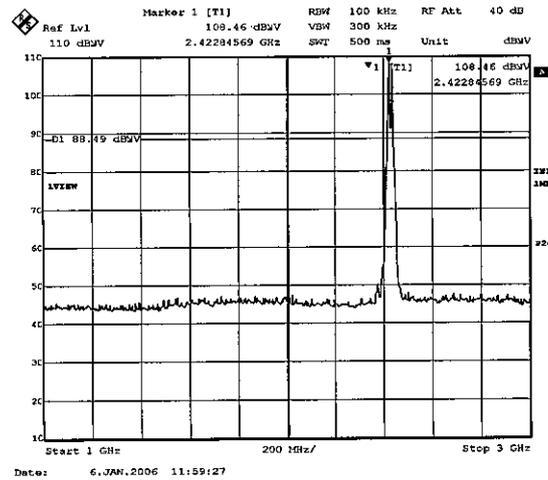
1.



2.



3.

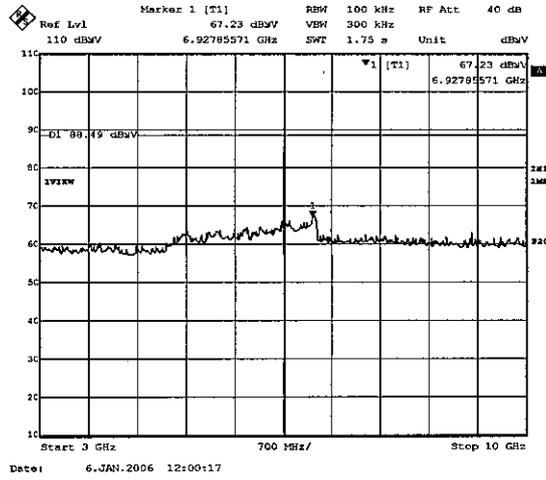


### Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

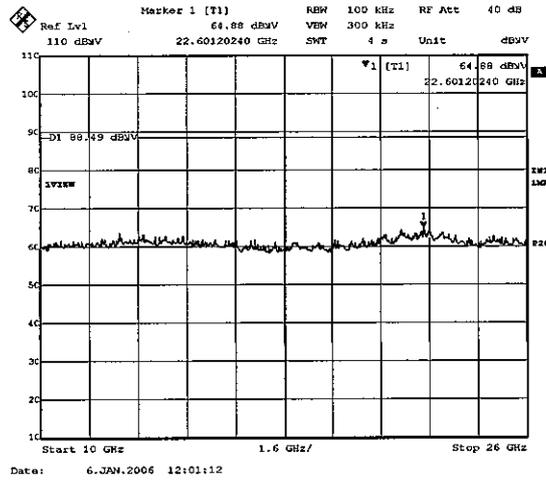
COMPANY	: Sony EMCS Corporation Saitama TEC	REPORT NO	: 26CE0198-YK <sup>1</sup>
EQUIPMENT	: Home AV Wireless System Transmitter	REGULATION	: FCC Part15SubpartC 247(d)
MODEL NUMBER	: HWS-AV10T	DATE	: 2006/01/06
SERIAL NUMBER	: 51	TEMP./HUMI	: 20°C/29%
FCC ID	: AK8HWSAV10T	TEST MODE	: Transmitting
POWER	: AC120V/60Hz(DC6V)	ENGINEER	: Makoto Hosaka

#### Ch2:2429MHz

4.



5.

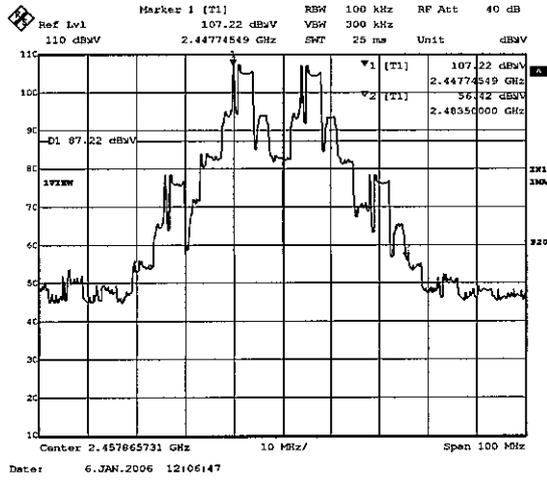


**Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)**

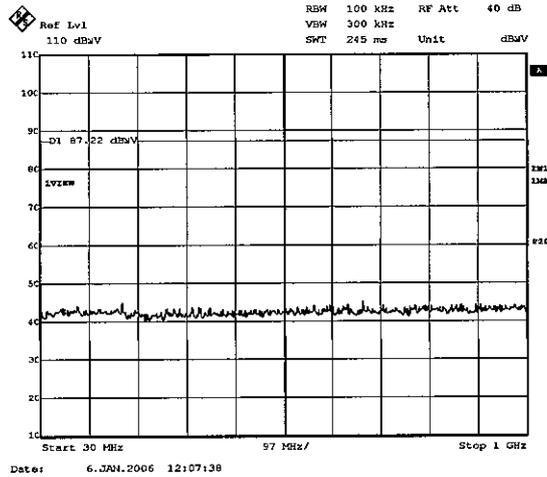
COMPANY	: Sony EMCS Corporation Saitama TEC	REPORT NO	: 26CE0198-YK - 1
EQUIPMENT	: Home AV Wireless System Transmitter	REGULATION	: FCC Part15SubpartC 247(d)
MODEL NUMBER	: HWS-AV10T	DATE	: 2006/01/06
SERIAL NUMBER	: 51	TEMP./HUMI	: 20°C/29%
FCC ID	: AK8HWSAV10T	TEST MODE	: Transmitting
POWER	: AC120V/60Hz(DC6V)	ENGINEER	: Makoto Hosaka

Ch4:2457MHz

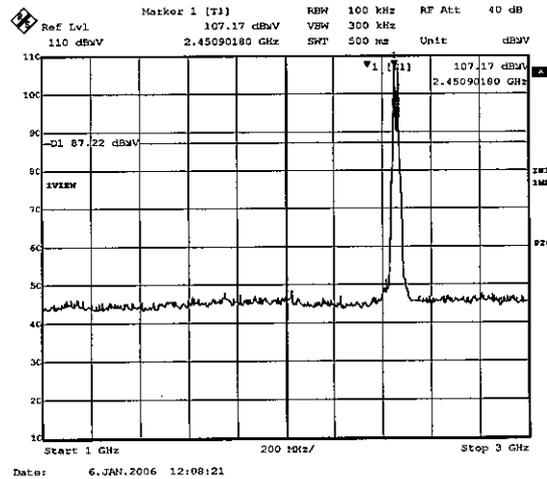
1.



2.



3.

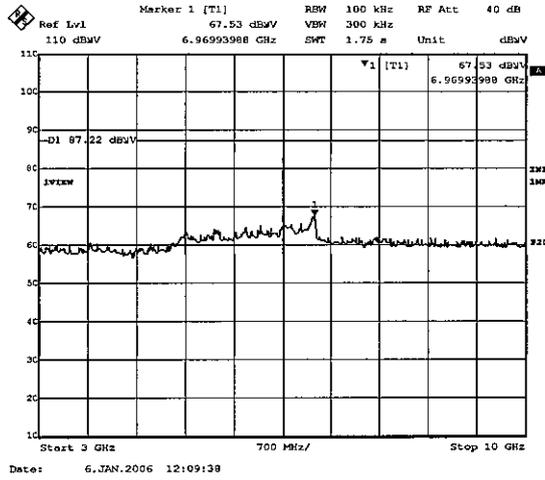


### Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

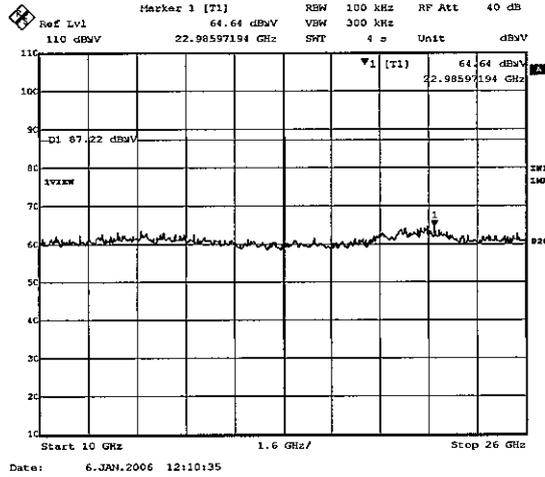
COMPANY	: Sony EMCS Corporation Saitama TEC	REPORT NO	: 26CE0198-YK
EQUIPMENT	: Home AV Wireless System Transmitter	REGULATION	: FCC Part15SubpartC 247(d)
MODEL NUMBER	: HWS-AV10T	DATE	: 2006/01/06
SERIAL NUMBER	: 51	TEMP./HUMI	: 20°C/29%
FCC ID	: AK8HWSAV10T	TEST MODE	: Transmitting
POWER	: AC120V/60Hz(DC6V)	ENGINEER	: Makoto Hosaka

**Ch4:2457MHz**

4.



5.



# DATA OF RADIATION TEST

UL Apex Co.,Ltd.  
YAMAKITA No.1 OPEN TEST SITE  
Report No. : 26CE0198-YK [ ]

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Home AV Wireless System Transmitter  
 Model No. : HWS-AV10T  
 Serial No. : 51  
 Power : AC120V/60Hz (DC6V)  
 Mode : Transmitting(2415MHz)  
 Remarks :  
 Date : 12/28/2005  
 Test Distance : 3 m  
 Temperature : 13 °C  
 Humidity : 33 %  
 Regulation : FCC Part15C § 15. 209

Engineer : Go Ishiwata

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					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	67.71	BB	32.8	45.2	6.9	28.4	2.1	6.0	19.4	31.8	40.0	20.6	8.2
2.	81.00	BB	34.0	47.0	6.1	28.3	2.3	6.0	20.1	33.1	40.0	19.9	6.9
3.	94.49	BB	29.5	37.2	9.1	28.3	2.5	6.0	18.8	26.5	43.5	24.7	17.0
4.	188.99	BB	29.0	29.2	16.6	27.9	3.6	6.0	27.3	27.5	43.5	16.2	16.0
5.	283.49	BB	35.0	35.7	19.8	27.7	4.6	6.0	37.7	38.4	46.0	8.3	7.6
6.	472.49	BB	31.3	33.9	18.1	29.0	6.2	6.0	32.6	35.2	46.0	13.4	10.8

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

■ ANTENNA: KBA-01 (BBA9106) 30-299.99MHz/KLA-01 (USLP9143) 300-1000MHz  
 ■ CABLE: KCC-10/11/12/13/18 ■ PREAMP: KAF-01 (8447D) ■ EMI RECEIVER: KTR-02 (ESCS30)

# DATA OF RADIATION TEST

UL Apex Co.,Ltd.  
YAMAKITA No.1 OPEN TEST SITE  
Report No. : 26CE0198-YK - 1

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Home AV Wireless System Transmitter  
 Model No. : HWS-AV10T  
 Serial No. : 51  
 Power : AC120V/60Hz (DC6V)  
 Mode : Transmitting (2429MHz)  
 Remarks :  
 Date : 12/28/2005  
 Test Distance : 3 m  
 Temperature : 13 °C  
 Humidity : 33 %  
 Regulation : FCC Part15C § 15. 209

Engineer : Go Ishiwata

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					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	67.71	BB	32.9	44.9	6.9	28.4	2.1	6.0	19.5	31.5	40.0	20.5	8.5
2.	81.00	BB	33.8	47.1	6.1	28.3	2.3	6.0	19.9	33.2	40.0	20.1	6.8
3.	94.49	BB	29.2	37.6	9.1	28.3	2.5	6.0	18.5	26.9	43.5	25.0	16.6
4.	188.98	BB	28.7	29.0	16.6	27.9	3.6	6.0	27.0	27.3	43.5	16.5	16.2
5.	283.50	BB	34.9	35.6	19.8	27.7	4.6	6.0	37.6	38.3	46.0	8.4	7.7
6.	472.50	BB	30.6	34.1	18.1	29.0	6.2	6.0	31.9	35.4	46.0	14.1	10.6

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

■ ANTENNA: KBA-01 (BBA9106) 30-299.99MHz/KLA-01 (USLP9143) 300-1000MHz  
 ■ CABLE: KCC-10/11/12/13/18 ■ PREAMP: KAF-01 (8447D) ■ EMI RECEIVER: KTR-02 (ESCS30)

# DATA OF RADIATION TEST

UL Apex Co.,Ltd.  
YAMAKITA No.1 OPEN TEST SITE  
Report No. : 26CE0198-YK ⇒ 1

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Home AV Wireless System Transmitter  
 Model No. : HWS-AV10T  
 Serial No. : 51  
 Power : AC120V/60Hz (DC6V)  
 Mode : Transmitting (2457MHz)  
 Remarks :  
 Date : 12/28/2005  
 Test Distance : 3 m  
 Temperature : 13 °C  
 Humidity : 33 %  
 Regulation : FCC Part15C § 15. 209

Engineer : Go Ishiwata

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					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	67.73	BB	32.7	45.4	6.9	28.4	2.1	6.0	19.3	32.0	40.0	20.7	8.0
2.	81.00	BB	34.0	47.5	6.1	28.3	2.3	6.0	20.1	33.6	40.0	19.9	6.4
3.	94.49	BB	29.4	38.1	9.1	28.3	2.5	6.0	18.7	27.4	43.5	24.8	16.1
4.	188.99	BB	28.2	28.9	16.6	27.9	3.6	6.0	26.5	27.2	43.5	17.0	16.3
5.	283.50	BB	34.7	35.7	19.8	27.7	4.6	6.0	37.4	38.4	46.0	8.6	7.6
6.	472.49	BB	30.1	33.3	18.1	29.0	6.2	6.0	31.4	34.6	46.0	14.6	11.4

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

■ ANTENNA: KBA-01 (BBA9106) 30-299.99MHz/KLA-01 (USLP9143) 300-1000MHz  
 ■ CABLE: KCC-10/11/12/13/18 ■ PREAMP: KAF-01 (8447D) ■ EMI RECEIVER: KTR-02 (ESCS30)

# DATA OF RADIATION TEST

UL Apex Co.,Ltd.  
YAMAKITA No.1 OPEN TEST SITE  
Report No. : 26CE0198-YK-1

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Home AV Wireless System Transmitter  
 Model No. : HWS-AV10T  
 Serial No. : 51  
 Power : AC120V/60Hz (DC6V)  
 Mode : Transmitting (2415MHz)  
 Remarks : PK (RBW:1MHz, VBW:1MHz)  
 Date : 12/28/2005  
 Test Distance : 3 m  
 Temperature : 13 °C  
 Humidity : 33 %  
 Regulation : FCC Part15C §15.209 (PK Detection)

Engineer : Go Ishiwata

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					HOR [dB μV/m]	VER		HOR [dB]	VER
1.	2390.00	BB	53.8	52.4	28.7	37.0	4.0	10.0	59.5	58.1	74.0	14.5	15.9
2.	4830.00	BB	47.9	49.2	33.0	36.5	5.5	0.5	50.4	51.7	74.0	23.6	22.3
3.	7245.00	BB	41.1	42.4	36.5	36.8	6.6	0.2	47.6	48.9	74.0	26.4	25.1
4.	9660.00	BB	40.0	43.1	38.4	37.1	7.4	0.4	49.1	52.2	74.0	24.9	21.8
5.	12075.00	BB	41.5	41.4	40.6	36.1	8.2	0.0	54.2	54.1	74.0	19.8	19.9
6.	14490.00	BB	40.5	41.5	43.4	35.1	8.9	0.3	58.0	59.0	74.0	16.0	15.0
7.	16905.00	BB	40.8	42.3	42.4	35.6	9.6	0.6	57.8	59.3	74.0	16.2	14.7
8.	19320.00	BB	43.5	43.2	38.2	34.9	10.3	0.0	57.1	56.8	74.0	16.9	17.2
9.	21735.00	BB	42.6	43.1	38.8	35.5	10.7	0.0	56.6	57.1	74.0	17.4	16.9
10.	24150.00	BB	43.4	43.5	39.1	34.9	11.1	0.0	58.7	58.8	74.0	15.3	15.2

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) ■ SPECTRUMANALYZER: R3271A (KSA-04)

# DATA OF RADIATION TEST

UL Apex Co.,Ltd.  
YAMAKITA No.1 OPEN TEST SITE  
Report No. : 26CE0198-YK - 1

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Home AV Wireless System Transmitter  
 Model No. : HWS-AV10T  
 Serial No. : 51  
 Power : AC120V/60Hz (DC6V)  
 Mode : Transmitting(2415MHz)  
 Remarks : AV (RBW:1MHz, VBW:10Hz)  
 Date : 12/28/2005  
 Test Distance : 3 m  
 Temperature : 13 °C  
 Humidity : 33 %  
 Regulation : FCC Part15C §15.209(AV Detection)

Engineer : Go Ishiwata

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					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	2390.00	BB	40.0	39.9	28.7	37.0	4.0	10.0	45.7	45.6	54.0	8.3	8.4
2.	4830.00	BB	35.7	38.1	33.0	36.5	5.5	0.5	38.2	40.6	54.0	15.8	13.4
3.	7245.00	BB	30.2	30.3	36.5	36.8	6.6	0.2	36.7	36.8	54.0	17.3	17.2
4.	9660.00	BB	32.8	32.8	38.4	37.1	7.4	0.4	41.9	41.9	54.0	12.1	12.1
5.	12075.00	BB	32.5	32.3	40.6	36.1	8.2	0.0	45.2	45.0	54.0	8.8	9.0
6.	14490.00	BB	31.5	31.4	43.4	35.1	8.9	0.3	49.0	48.9	54.0	5.0	5.1
7.	16905.00	BB	32.3	32.6	42.4	35.6	9.6	0.6	49.3	49.6	54.0	4.7	4.4
8.	19320.00	BB	33.2	33.1	38.2	34.9	10.3	0.0	46.8	46.7	54.0	7.2	7.3
9.	21735.00	BB	33.9	34.7	38.8	35.5	10.7	0.0	47.9	48.7	54.0	6.1	5.3
10.	24150.00	BB	34.1	35.1	39.1	34.9	11.1	0.0	49.4	50.4	54.0	4.6	3.6

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) ■SPECTRUMANALYZER:R3271A (KSA-04)

# DATA OF RADIATION TEST

UL Apex Co.,Ltd.  
YAMAKITA No.1 OPEN TEST SITE  
Report No. : 26CE0198-YK **1**

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Home AV Wireless System Transmitter  
 Model No. : HWS-AV10T  
 Serial No. : 51  
 Power : AC120V/60Hz (DC6V)  
 Mode : Transmitting (2429MHz)  
 Remarks : PK (RBW:1MHz, VBW:1MHz)  
 Date : 12/28/2005  
 Test Distance : 3 m  
 Temperature : 13 °C  
 Humidity : 33 %  
 Regulation : FCC Part15C § 15. 209 (PK Detection)

Engineer : Go Ishiwata

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					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	4858.00	BB	47.5	49.5	33.0	36.5	5.5	0.5	50.0	52.0	74.0	24.0	22.0
2.	7287.00	BB	41.7	41.9	36.6	36.8	6.7	0.2	48.4	48.6	74.0	25.6	25.4
3.	9716.00	BB	41.1	42.1	38.4	37.1	7.4	0.4	50.2	51.2	74.0	23.8	22.8
4.	12145.00	BB	40.8	40.9	40.5	36.0	8.2	0.0	53.5	53.6	74.0	20.5	20.4
5.	14574.00	BB	40.3	41.3	43.2	35.2	8.9	0.4	57.6	58.6	74.0	16.4	15.4
6.	17003.00	BB	41.2	42.4	42.8	35.6	9.7	0.6	58.7	59.9	74.0	15.3	14.1
7.	19432.00	BB	42.2	43.3	38.0	35.1	10.4	0.0	55.5	56.6	74.0	18.5	17.4
8.	21861.00	BB	42.9	43.4	38.8	35.3	10.8	0.0	57.2	57.7	74.0	16.8	16.3
9.	24290.00	BB	43.5	43.6	39.2	35.0	11.1	0.0	58.8	58.9	74.0	15.2	15.1

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) ■ SPECTRUMANALYZER: R3271A (KSA-04)

# DATA OF RADIATION TEST

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YAMAKITA No.1 OPEN TEST SITE  
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 Model No. : HWS-AV10T  
 Serial No. : 51  
 Power : AC120V/60Hz (DC6V)  
 Mode : Transmitting (2429MHz)  
 Remarks : AV (RBW:1MHz, VBW:10Hz)  
 Date : 12/28/2005  
 Test Distance : 3 m  
 Temperature : 13 °C Engineer : Go Ishiwata  
 Humidity : 33 %  
 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					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	4858.00	BB	35.3	37.1	33.0	36.5	5.5	0.5	37.8	39.6	54.0	16.2	14.4
2.	7287.00	BB	30.9	30.9	36.6	36.8	6.7	0.2	37.6	37.6	54.0	16.4	16.4
3.	9716.00	BB	32.1	32.1	38.4	37.1	7.4	0.4	41.2	41.2	54.0	12.8	12.8
4.	12145.00	BB	32.6	33.0	40.5	36.0	8.2	0.0	45.3	45.7	54.0	8.7	8.3
5.	14574.00	BB	32.2	32.1	43.2	35.2	8.9	0.4	49.5	49.4	54.0	4.5	4.6
6.	17003.00	BB	32.0	31.9	42.8	35.6	9.7	0.6	49.5	49.4	54.0	4.5	4.6
7.	19432.00	BB	32.1	32.8	38.0	35.1	10.4	0.0	45.4	46.1	54.0	8.6	7.9
8.	21861.00	BB	34.5	34.1	38.8	35.3	10.8	0.0	48.8	48.4	54.0	5.2	5.6
9.	24290.00	BB	34.1	34.9	39.2	35.0	11.1	0.0	49.4	50.2	54.0	4.6	3.8

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) ■ SPECTRUMANALYZER: R3271A (KSA-04)

# DATA OF RADIATION TEST

UL Apex Co.,Ltd.  
YAMAKITA No.1 OPEN TEST SITE  
Report No. : 26CE0198-YK - 1

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Home AV Wireless System Transmitter  
 Model No. : HWS-AV10T  
 Serial No. : 51  
 Power : AC120V/60Hz (DC6V)  
 Mode : Transmitting (2457MHz)  
 Remarks : PK (RBW:1MHz, VBW:1MHz)  
 Date : 12/28/2005  
 Test Distance : 3 m  
 Temperature : 13 °C  
 Humidity : 33 %  
 Regulation : FCC Part15C § 15.209 (PK Detection)

Engineer : Go Ishiwata

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					HOR [dB μV/m]	VER		HOR [dB]	VER
1.	2483.50	BB	53.3	50.6	28.8	37.1	4.0	10.0	59.0	56.3	74.0	15.0	17.7
2.	4914.00	BB	47.6	49.1	33.2	36.4	5.6	0.5	50.5	52.0	74.0	23.5	22.0
3.	7371.00	BB	41.0	41.2	36.7	36.8	6.7	0.2	47.8	48.0	74.0	26.2	26.0
4.	9828.00	BB	41.9	41.9	38.5	37.1	7.4	0.3	51.0	51.0	74.0	23.0	23.0
5.	12285.00	BB	41.2	40.7	40.4	35.9	8.1	0.0	53.8	53.3	74.0	20.2	20.7
6.	14742.00	BB	40.6	41.0	42.7	35.4	9.0	0.6	57.5	57.9	74.0	16.5	16.1
7.	17199.00	BB	41.1	40.9	43.8	35.6	9.6	0.4	59.3	59.1	74.0	14.7	14.9
8.	19656.00	BB	42.6	43.0	38.0	35.1	10.5	0.0	56.0	56.4	74.0	18.0	17.6
9.	22113.00	BB	43.1	43.3	38.9	35.0	10.9	0.0	57.9	58.1	74.0	16.1	15.9
10.	24570.00	BB	43.9	44.2	39.3	35.0	11.2	0.0	59.4	59.7	74.0	14.6	14.3

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) ■ SPECTRUMANALYZER: R3271A (KSA-04)

# DATA OF RADIATION TEST

UL Apex Co.,Ltd.  
YAMAKITA No.1 OPEN TEST SITE  
Report No. : 26GE0198-YK-1

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Home AV Wireless System Transmitter  
 Model No. : HWS-AV10T  
 Serial No. : 51  
 Power : AC120V/60Hz (DC6V)  
 Mode : Transmitting (2457MHz)  
 Remarks : AV (RBW:1MHz, VBW:10Hz)  
 Date : 12/28/2005  
 Test Distance : 3 m  
 Temperature : 13 °C Engineer : Go Ishiwata  
 Humidity : 33 %  
 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					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	2483.50	BB	41.5	39.6	28.8	37.1	4.0	10.0	47.2	45.3	54.0	6.8	8.7
2.	4914.00	BB	35.6	37.2	33.2	36.4	5.6	0.5	38.5	40.1	54.0	15.5	13.9
3.	7371.00	BB	31.1	31.0	36.7	36.8	6.7	0.2	37.9	37.8	54.0	16.1	16.2
4.	9828.00	BB	32.9	32.2	38.5	37.1	7.4	0.3	42.0	41.3	54.0	12.0	12.7
5.	12285.00	BB	33.0	32.8	40.4	35.9	8.1	0.0	45.6	45.4	54.0	8.4	8.6
6.	14742.00	BB	32.1	31.9	42.7	35.4	9.0	0.6	49.0	48.8	54.0	5.0	5.2
7.	17199.00	BB	32.4	32.4	43.8	35.6	9.6	0.4	50.6	50.6	54.0	3.4	3.4
8.	19656.00	BB	33.1	33.0	38.0	35.1	10.5	0.0	46.5	46.4	54.0	7.5	7.6
9.	22113.00	BB	34.6	34.5	38.9	35.0	10.9	0.0	49.4	49.3	54.0	4.6	4.7
10.	24570.00	BB	34.8	35.3	39.3	35.0	11.2	0.0	50.3	50.8	54.0	3.7	3.2

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) ■ SPECTRUMANALYZER: R3271A (KSA-04)

## Power Density (Conducted)

UL Apex Co.,Ltd  
YAMAKITA NO.2 Shielded Room

COMPANY : Sony EMCS Corporation Saitama TEC REPORT NO : 26CE0198-YK - **1**  
EQUIPMENT : Home AV Wireless System Transmitter REGULATION : Fcc Part15SubpartC 247(e)  
MODEL NUMBER : HWS-AV10T DATE : 2006/01/06  
SERIAL NUMBER : 51 TEMP./HUMI : 20°C/29%  
FCC ID : AK8HWSAV10T  
POWER : AC120V/60Hz(DC6V)  
TEST MODE : Transmitting

ENGINEER : Makoto Hosaka

CH	FREQ [GHz]	S/A Reading * [dBm]	Cable Loss [dB]	Results [dBm]	Limit [dBm]	MARGIN [dB]
Low	2.4071	-1.98	0.5	-1.48	8.0	9.5
Mid	2.4210	-2.69	0.5	-2.19	8.0	10.2
High	2.4491	-3.95	0.5	-3.45	8.0	11.5

\*S/A Reading[dBm] = S/A Reading[dBuV] - 107[dB]

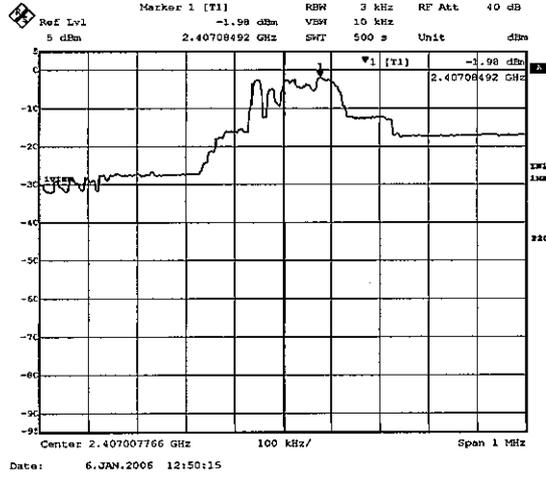
S/A:Spectrum Analyzer

**Power Density: FCC 15.247(e)**

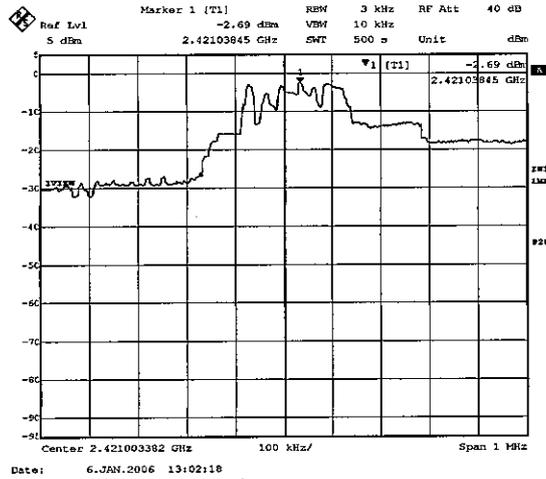
**COMPANY** : Sony EMCS Corporation Saitama TEC  
**EQUIPMENT** : Home AV Wireless System Transmitter  
**MODEL NUMBER**: HWS-AV10T  
**SERIAL NUMBER**: 51  
**FCC ID** : AK8HWSAV10T  
**POWER** : AC120V/60Hz(DC6V)

**UL Apex Co.,Ltd. Yamakita No.2 Shielded Room**  
**REPORT NO** : 26CE0198-YK - 1  
**REGULATION** : FCC Part15SubpartC 247(e)  
**DATE** : 2006/01/06  
**TEMP/HUMI** : 20°C/29%  
**TEST MODE** : Transmitting  
**ENGINEER** : Makoto Hosaka

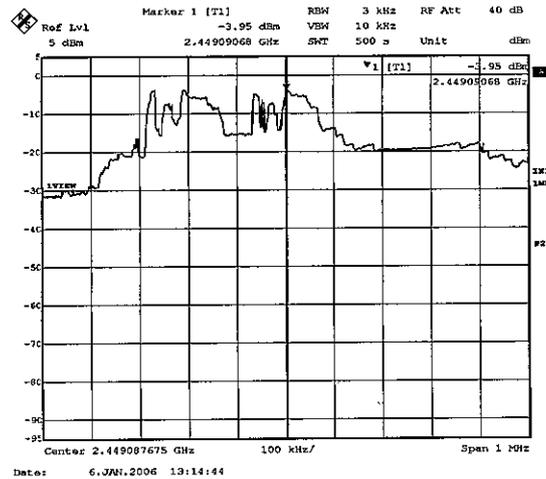
**1. ch 1: 2415MHz**



**2. ch 6: 2429MHz**



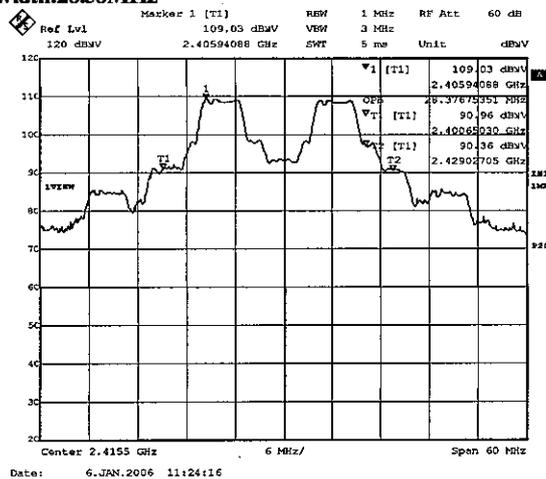
**3. ch 4: 2457MHz**



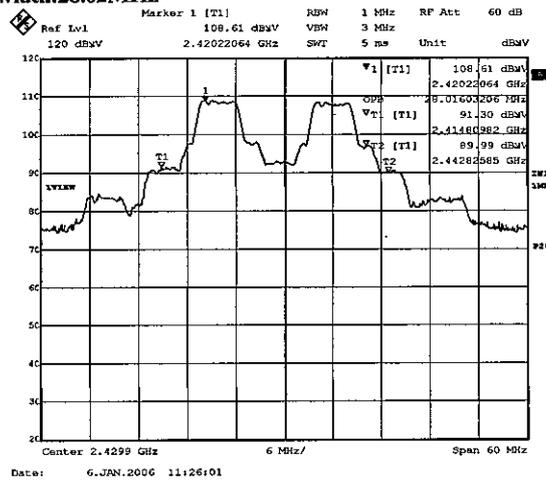
## Occupied Bandwidth(99%)

COMPANY	: Sony EMCS Corporation Saitama TEC	REPORT NO	: 26CE0198-YK - 1
EQUIPMENT	: Home AV Wireless System Transmitter	REGULATION	: FCC Part15SubpartC 247
MODEL NUMBER	: HWS-AV10T	DATE	: 2006/01/06
SERIAL NUMBER	: 51	TEMP./HUMI	: 20°C/29%
FCC ID	: AK8HWSAV10T	TEST MODE	: Transmitting
POWER	: AC120V/60Hz(DC6V)	ENGINEER	: Makoto Hosaka

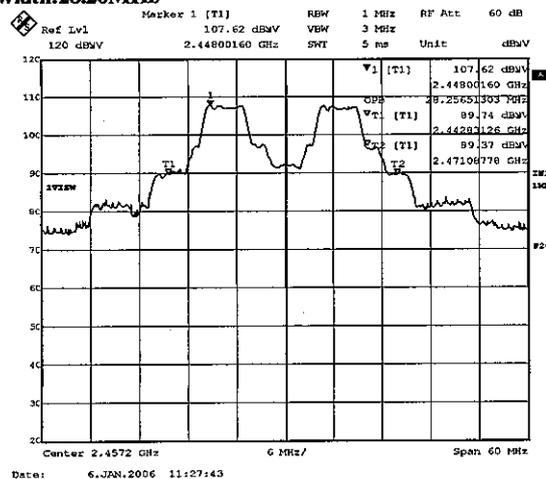
### 1. ch 1: 2415MHz/Occupied Bandwidth:28.38MHz



### 2. ch 2: 2429MHz/Occupied Bandwidth:28.02MHz



### 3. ch 4: 2457MHz/Occupied Bandwidth:28.26MHz



Test Report No :26CE0198-YK-1

**APPENDIX 3**  
**Test Instruments**

**EMI test equipment**

Control No	Instrument	Manufacturer	Model No	Test Item	Calibration Date Interval(month)
KAF-01	Pre Amplifier	Hewlett Packard	8447D	RE	2005/05/24 * 12
KAF-02	Pre Amplifier	Hewlett Packard	8449B	RE	2005/04/28 * 12
KAF-05	Pre Amplifier	Agilent	8447D	AT	2005/05/11 * 12
KAT10-S1	Attenuator	Agilent	8449D 010	RE	2005/04/12 * 12
KAT6-02	Attenuator	INMET	18N-6dB	RE	2005/04/07 * 12
KBA-01	Biconical Antenna	Schwarzbeck	BBA9106	RE	2005/08/04 * 12
KCC-10/11/12 /13/18	Coaxial Cable	Fujikura/Suhner	8D-2W/12D-SFA/S0 4272B/S04272B/S04 272B	RE	2005/06/14 * 12
KCC-33/34	Coaxial Cable	Fujikura/Suhner	5D-2W/S04272B	CE	2005/12/22 * 12
KCC-A2/A3	Coaxial Cable	Fujikura	5D-2W	AT	2005/06/03 * 12
KCC-D3/D7	Coaxial Cable	Rosenberger/Advantest	2201/JUN-08-01-06 1	RE/AT	2005/04/12 * 12
KFL-01	Highpass Filter	Hewlett Packard	84300 80038	RE	2005/04/12 * 12
KHA-01	Horn Antenna	A.H.Systems	SAS-200/571	RE	2005/08/20 * 12
KHA-03	Horn Antenna	EMCO	3160-09	RE	2005/05/14 * 12
KLA-01	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2005/01/29 * 12
KLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2005/01/29 * 12
KLS-05	LISN(AMN)	Schwarzbeck	NSLK8126	CE (EUT)	2005/09/06 * 12
KOTS-01	Open Test Site	JSE	30m	RE	2005/08/10 * 12
KSA-01	Spectrum Analyzer	Advantest	R3365	RE	2005/07/06 * 12
KSA-04	Spectrum Analyzer	Advantest	R3271A	CE/RE	2005/09/13 * 12
KTR-01	Test Receiver	Rohde & Schwarz	ES140	CE/AT	2005/08/05 * 12
KTR-02	Test Receiver	Rohde & Schwarz	ESCS30	RE	2005/11/10 * 12
KLS-06	LISN(AMN)	Schwarzbeck	NSLK8127	CE	2005/09/06 * 12
KTM-05	Terminator	TME	CT-01BP	CE	2005/04/07 * 12

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

**Test Item:**

- CE: Conducted Emission
- RE: Out of Band Emission (Radiated)
- AT: Antenna terminal conducted test
  - 1 6dB Bandwidth
  - 2 Maximum Peak Output Power
  - 3 Out of Band Emission (Conducted)
  - 4 Peak Power Density