



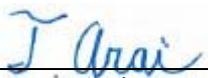
# EMI TEST REPORT

**Test Report No. : 26IE0237-YK-A**

**Applicant** : Sony EMCS Corporation Saitama TEC  
**Type of Equipment** : Wireless Stereo Headset  
**Model No.** : DR-BT30Q  
**FCC ID** : AK8DRBT30Q  
**Test Standard** : FCC Part15 Subpart C,  
Section 15.209, Section 15.247: 2006  
**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 the above regulation.
4. The test results in this test report are traceable to the national or international standards.

**Date of test:** June 22 and 23, 2006

**Tested by:**   
Tatsuya Arai

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

**UL Apex Co., Ltd.**

**YAMAKITA EMC LAB.**

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MF060b (14.06.06)

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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 : Wireless Stereo Headset  
Model No. : DR-BT30Q  
Serial No. : EMC1  
Rating : DC3.7V  
Country of Manufacture : Malaysia  
Receipt Date of Sample : May 22, 2006  
Condition of EUT : Engineering prototype  
(Not for Sale: This sample is equivalent to mass-produced items.)  
Modification of EUT : No modification by the test lab.

Model: DR-BT30Q (referred to as the EUT in this report) is a Wireless Stereo Headset.

Clock frequency : Module clock: 24MHz  
Feature of EUT : Bluetooth earset  
Equipment type : Transceiver  
Frequency band : 2402-2480MHz  
Bandwidth & Channel spacing: 79MHz & 1MHz  
Type of modulation : FHSS  
Antenna type : Chip Helical  
Antenna connector type : Integral  
Antenna gain : -0.4dBi  
Mode of operation : Simplex  
ITU code : F1D  
Operating temperature range: 0 to +40 deg.C.

### FCC Part15.31 (e)

The Bluetooth module is provided with stable power supply (DC 1.8 V), therefore, the equipment complies power supply regulation.

### FCC Part15.203 Antenna requirement

It is impossible for end users to replace the antenna, because the antenna is mounted inside of the module. Therefore, the equipment complies with the antenna requirement of Section 15.203.

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### 3 Test Specification, Procedures and Results

#### 3.1 Test specification

Test specification : FCC Part15 Subpart C: 2006  
 Title : FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional Radiators  
 Section 15.209 Radiated emission limits, general requirements  
 Section 15.247 Operation within the bands 902-928MHz, 2400-2483.5MHz,  
 and 5725-5850MHz

#### 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 *1	N/A	N/A
Carrier Frequency Separation	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247 (a)(1)	Conducted	N/A	*See data.	Complied
20dB Bandwidth	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247 (a)(1)	Conducted	N/A		Complied
Number of Hopping Frequency	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247 (a)(1)(iii)	Conducted	N/A		Complied
Dwell time	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247 (a)(1)(iii)	Conducted	N/A		Complied
Maximum Peak Output Power	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.247 (b)(1)	Conducted	N/A		Complied
Spurious Emission	ANSI C63.4:2003 13. Measurement of intentional radiators	Section15.209 Section15.247(d)	Conducted / Radiated	N/A	1.3dB (17360MHz, AV, Horizontal, Tx 2480MHz)	Complied

The measurements also referred to FCC Public Notice DA 00-705 "Guidance on Measurement for Frequency Hopping Spread Spectrum Systems".

\*1) The test is not applicable since the EUT has no AC mains.

\* No addition, exclusion nor deviation has been made from the standard.

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### 3.3 Uncertainty

#### Antenna port conducted test

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

#### Spurious emission test (Radiated)

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.

### 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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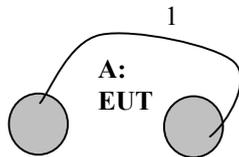
## 4 System Test Configuration

### 4.1 Justification

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

Test mode: Transmitting (Packet size: DH5)  
 - Low channel : 2402MHz  
 - Middle channel : 2441MHz  
 - High channel : 2480MHz  
 - Hopping  
 - Inquiry

### 4.2 Configuration of Tested System



\* 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	Wireless Stereo Headset	DR-BT30Q	EMC1	SONY	AK8DRBT30Q (EUT)

#### List of cables used

No.	Name	Length (m)	Shield		Remark
			Connector	Cable	
1	Headphone cable	0.55	- (No connector)	Shielded	-

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## 5 Carrier Frequency Separation

### Test Procedure

The carrier frequency separation was measured with a spectrum analyzer connected to the antenna port.

Summary of the test results: Pass  
Date: June 23, 2006

Test data: APPENDIX 2 Page 13  
Test engineer : Tatsuya Arai

## 6 20dB Bandwidth

### Test Procedure

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

Summary of the test results: Pass  
Date: June 23, 2006

Test data: APPENDIX 2 Page 14  
Test engineer : Tatsuya Arai

## 7 Number of Hopping Frequency

### Test Procedure

The Number of Hopping Frequency was measured with a spectrum analyzer connected to the antenna port.

Summary of the test results: Pass  
Date: June 23, 2006

Test data: APPENDIX 2 Page 15 to 17  
Test engineer : Tatsuya Arai

## 8 Dwell time

### Test Procedure

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

Summary of the test results: Pass  
Date: June 23, 2006

Test data: APPENDIX 2 Page 18 to 21  
Test engineer : Tatsuya Arai

## 9 Maximum Peak Output Power

### Test Procedure

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

Summary of the test results: Pass  
Date: June 23, 2006

Test data: APPENDIX 2 Page 22  
Test engineer : Tatsuya Arai

## 10 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.

Summary of the test results: Pass  
Date: June 23, 2006

Test data: APPENDIX 2 Page 23 to 28  
Test engineer : Tatsuya Arai

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## 11 Out of Band Emissions (Radiated)

### 11.1 Operating environment

The test was carried out in No.1 anechoic chamber.

### 11.2 Test configuration

EUT was placed on a urethane 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.

### 11.3 Test conditions

Frequency range : 30MHz - 26GHz  
 Test distance : 3m (30MHz-18GHz), 1m (18-26GHz) \*1  
 EUT operation mode : Transmitting

### 11.4 Test procedure

The Radiated Electric Field Strength intensity has been measured with a ground plane and at a distance of 3m and 1m. 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.

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

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

The equipment was previously checked at each position of three axes X, Y and Z. The position in which the maximum noise occurred was chosen to put into measurement. See the table below and photographs in page 12. With the position, the noise levels of all the frequencies were measured.

Horizontal	X
Vertical	Y

\*1) Limit for 1m distance was calculated using the following formula:

$$1m \text{ limit} = 15.209 \text{ limit} + 20 \log (3m/1m)$$

### 11.5 Results

Summary of the test results : Pass

Test data : APPENDIX 2 Page 29 to 31 (30 - 1000MHz), Page 32 to 37 (1 - 26GHz)

Date : June 22, 2006 Test engineer : Tatsuya Arai

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

Page 11	:	Radiated emission
Page 12	:	Pre-check of the worst position

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

Page 13	:	Carrier Frequency Separation
Page 14	:	20dB Bandwidth
Page 15 - 17	:	Number of Hopping Frequency
Page 18 - 21	:	Dwell time
Page 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	:	1-26GHz
Page 38 - 39	:	Occupied Bandwidth

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

Page 40	:	Test instruments
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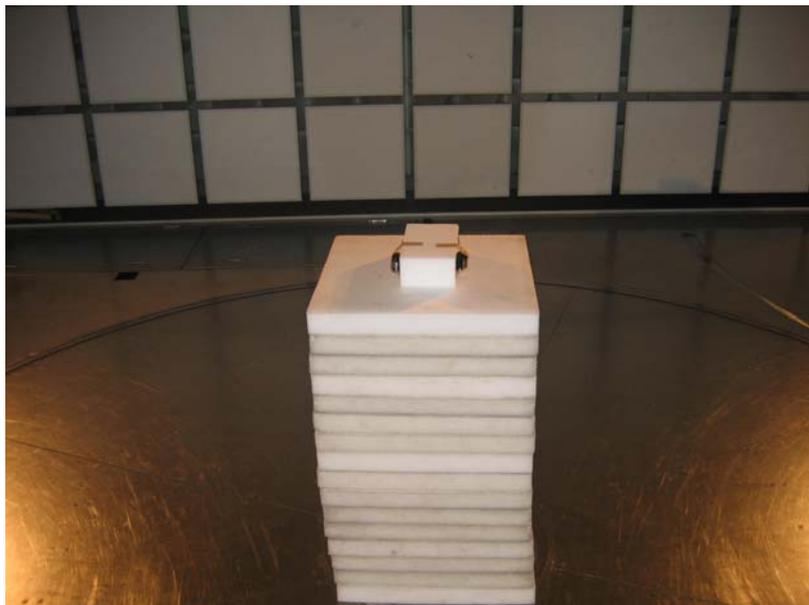
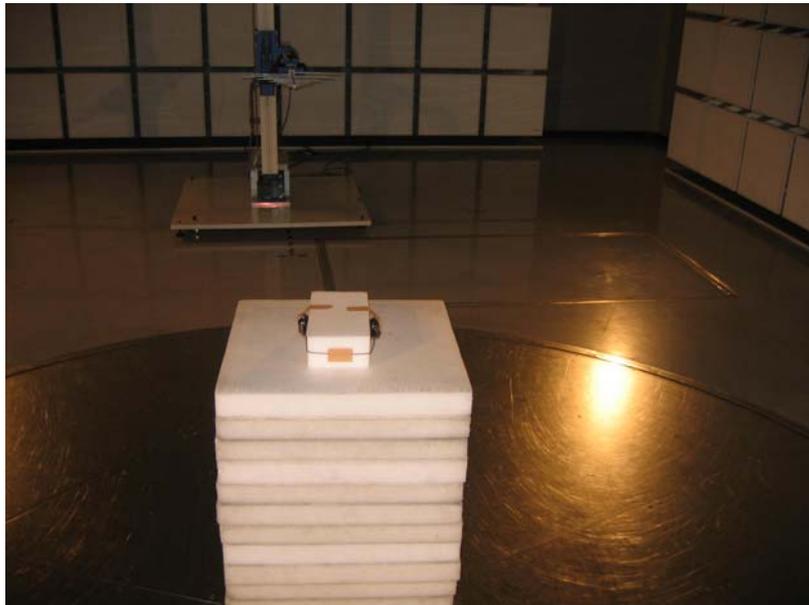
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**Radiated emission**



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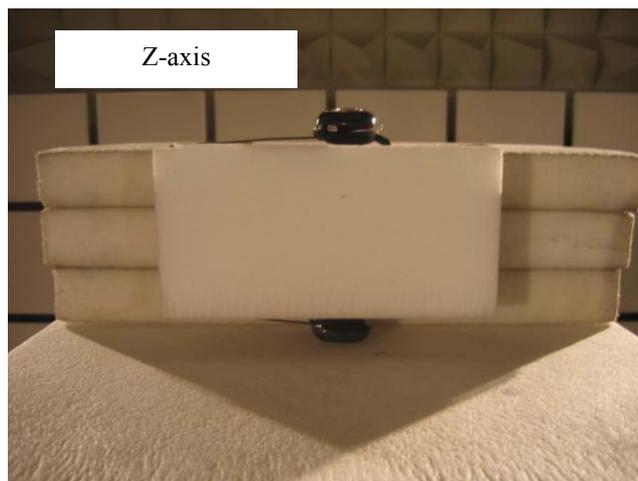
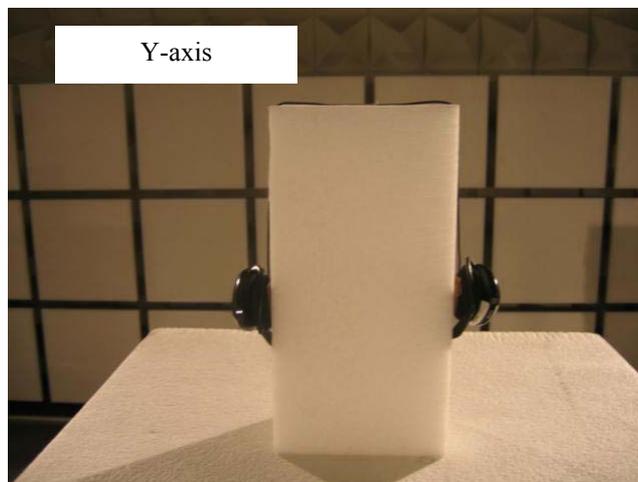
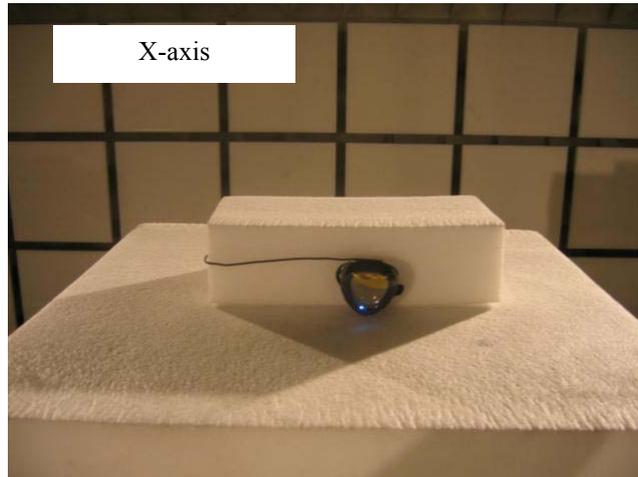
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**Pre-check of the worst position**



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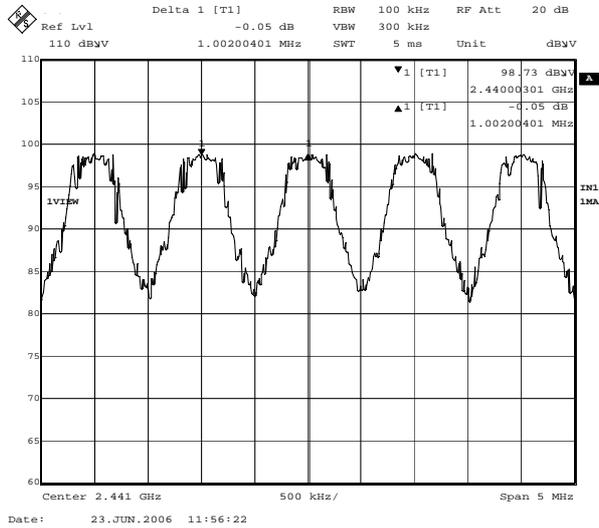
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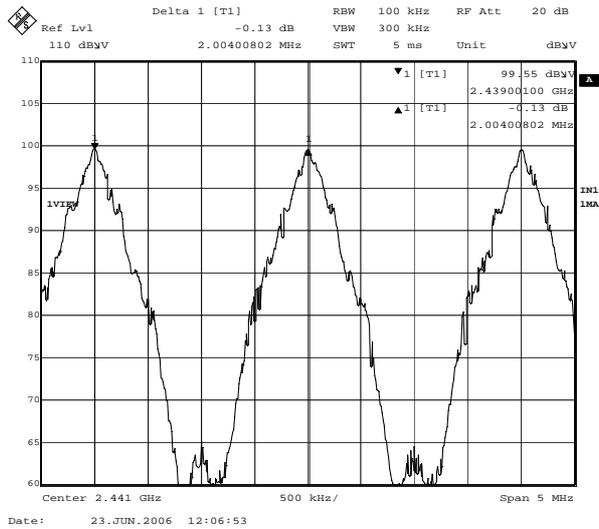
# Channel Separation: FCC 15.247(a)(1)

COMPANY	: Sony EMCS Corporation Saitama TEC	UL Apex Co.,Ltd. Yamakita No.2 Shielded Room
EQUIPMENT	: Wireless Stereo Headset	REPORT NO : 26IE0237-YK-A
MODEL NUMBER	: DR-BT30Q	REGULATION : Fcc Part15SubpartC 247(a)(1)
SERIAL NUMBER	: EMC1	DATE : 2006/06/23
FCC ID	: AK8DRBT30Q	TEMP/HUMI : 24deg.C./65%
POWER	: DC3.7V	TEST MODE : Transmitting
		ENGINEER : Tatsuya Arai

## 1. Hopping:1002.00kHz



## 2. Inquiry:2004.01kHz

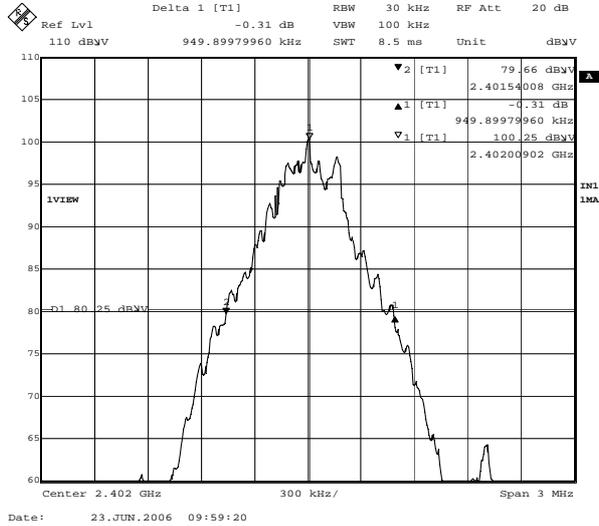


## 20dB Bandwidth: FCC 15.247(a)(1)

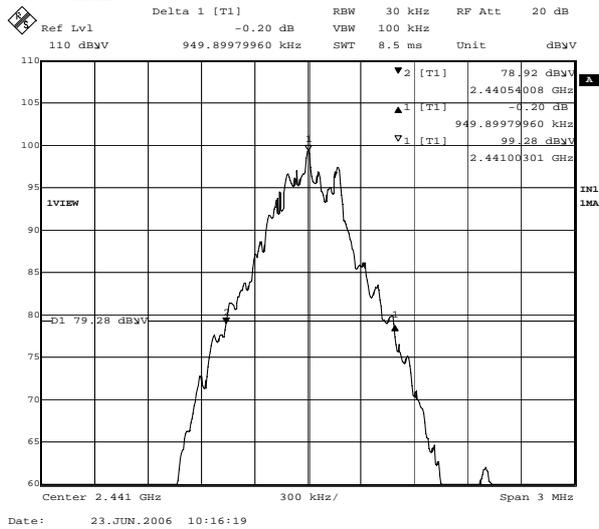
**COMPANY** : Sony EMCS Corporation Saitama TEC  
**EQUIPMENT** : Wireless Stereo Headset  
**MODEL NUMBER**: DR-BT30Q  
**SERIAL NUMBER**: EMC1  
**FCC ID** : AK8DRBT30Q  
**POWER** : DC3.7V

**UL Apex Co.,Ltd. Yamakita No.2 Shielded Room**  
**REPORT NO** : 26IE0237-YK-A  
**REGULATION** : Fcc Part15SubpartC 247(a)(1)  
**DATE** : 2006/06/23  
**TEMP./HUMI** : 24deg.C./65%  
**TEST MODE** : Transmitting (Hopping off)  
**ENGINEER** : Tatsuya Arai

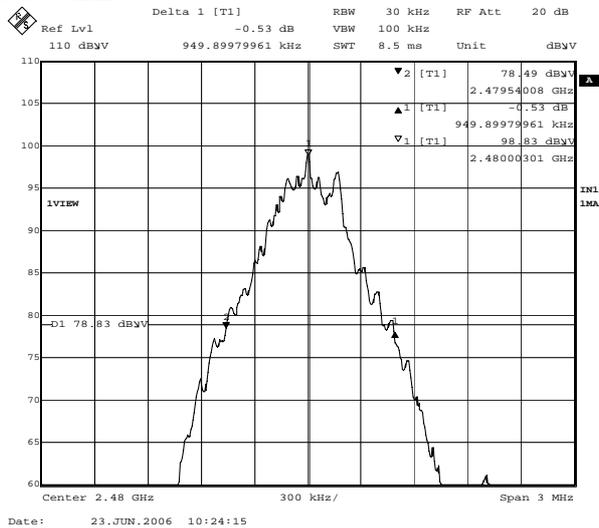
### 1. ch : 2402MHz/20dB Bandwidth:949.90kHz



### 2. ch : 2441MHz/20dB Bandwidth:949.90kHz



### 3. ch : 2480MHz/20dB Bandwidth:949.90kHz



# Channel Utilization: FCC 15.247(a)(1)(iii)

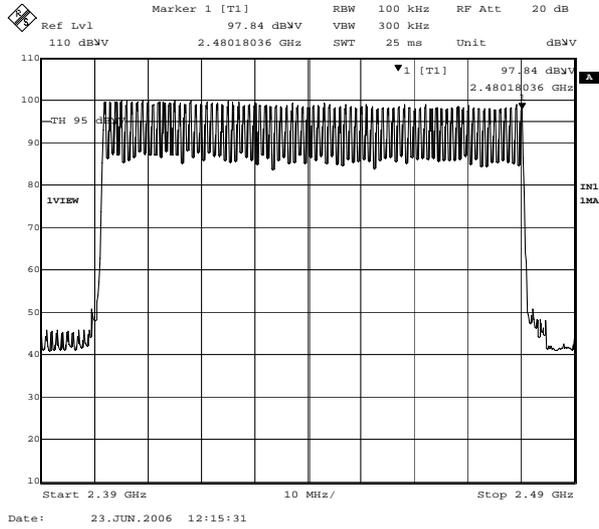
UL Apex Co.,Ltd. Yamakita No.2 Shielded Room

COMPANY : Sony EMCS Corporation Saitama TEC  
 EQUIPMENT : Wireless Stereo Headset  
 MODEL NUMBER: DR-BT30Q  
 SERIAL NUMBER: EMC1  
 FCC ID : AK8DRBT30Q  
 POWER : DC3.7V

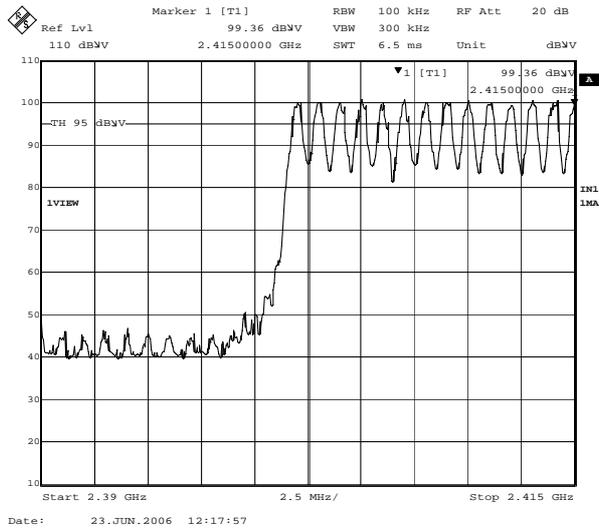
REPORT NO : 26IE0237-YK-A  
 REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)  
 DATE : 2006/06/23  
 TEMP./HUMI : 24deg.C./65%  
 TEST MODE : Transmitting  
 ENGINEER : Tatsuya Arai

## Hopping: 79ch

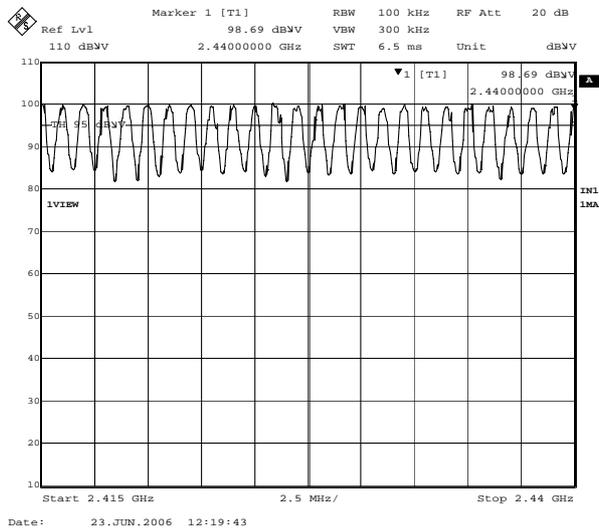
1.



2.



3.



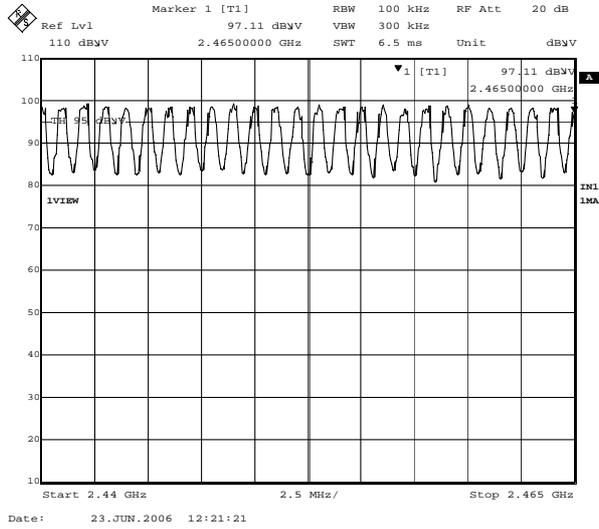
### Channel Utilization: FCC 15.247(a)(1)(iii)

UL Apex Co.,Ltd. Yamakita No.2 Shielded Room

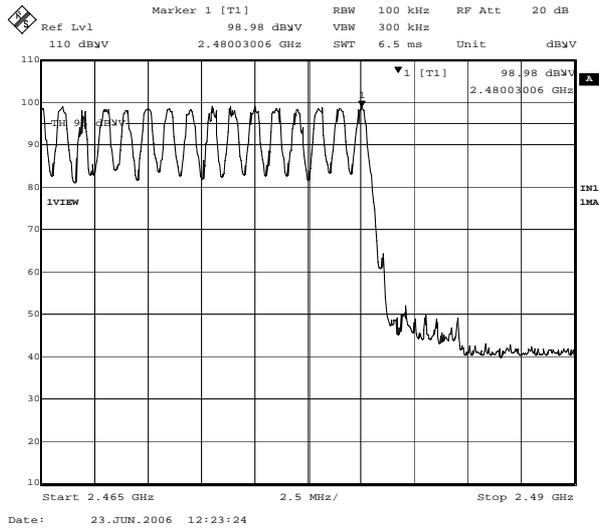
COMPANY : Sony EMCS Corporation Saitama TEC  
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SERIAL NUMBER: EMC1  
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REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)  
DATE : 2006/06/23  
TEMP./HUMI : 24deg.C./65%  
TEST MODE : Transmitting  
ENGINEER : Tatsuya Arai

4.



5.



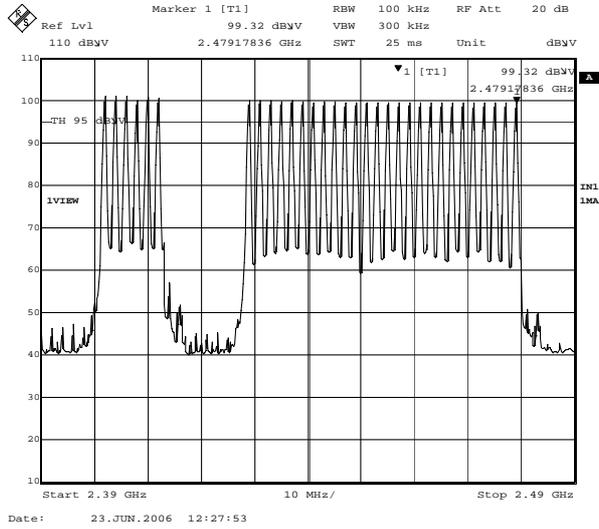
# Channel Utilization: FCC 15.247(a)(1)(iii)

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COMPANY : Sony EMCS Corporation Saitama TEC  
EQUIPMENT : Wireless Stereo Headset  
MODEL NUMBER: DR-BT30Q  
SERIAL NUMBER: EMC1  
FCC ID : AK8DRBT30Q  
POWER : DC3.7V

REPORT NO : 26IE0237-YK-A  
REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)  
DATE : 2006/06/23  
TEMP./HUMI : 24deg.C./65%  
TEST MODE : Transmitting  
ENGINEER : Tatsuya Arai

## 1. Inquiry: 32ch

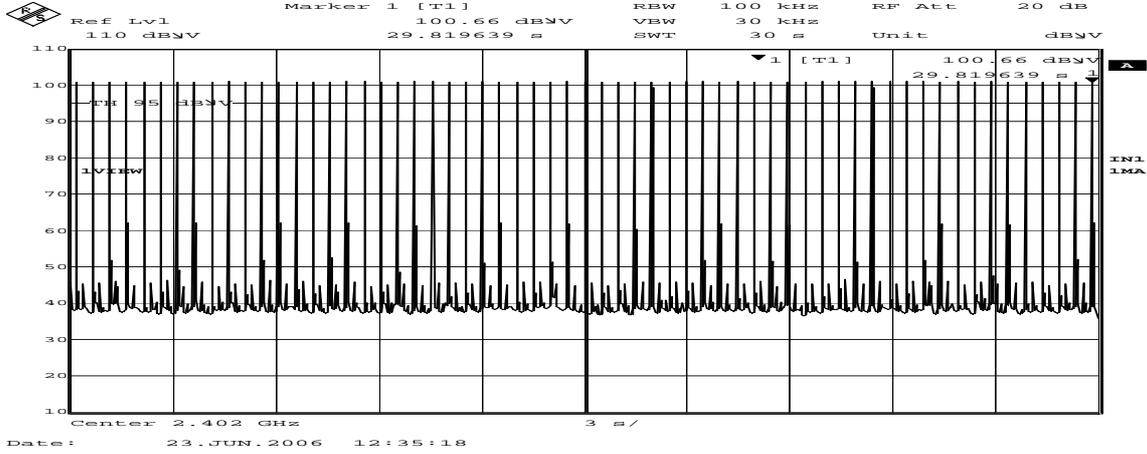


Dwell Time: FCC 15.247(a)(1)(iii)

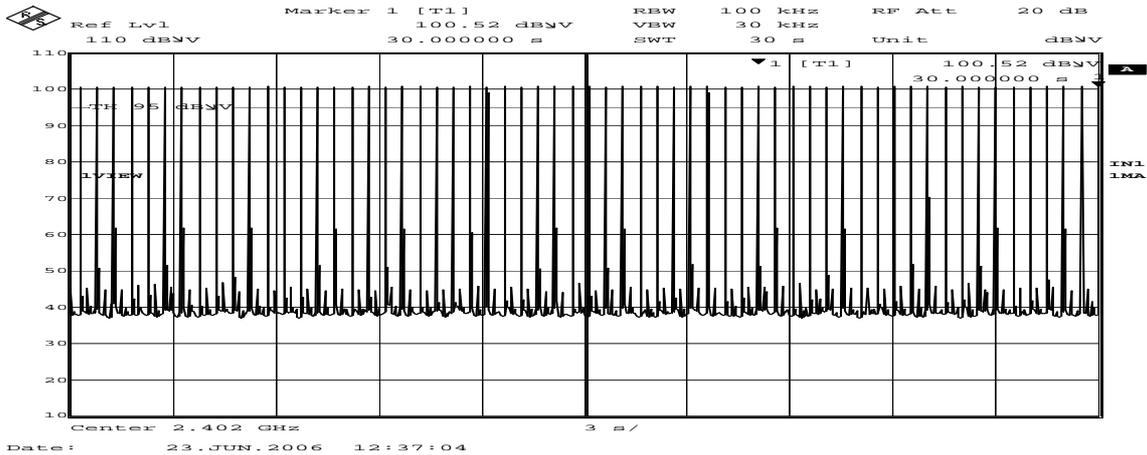
COMPANY : Sony EMCS Corporation Saitama TEC  
EQUIPMENT : Wireless Stereo Headset  
MODEL NUMBER: DR-BT30Q  
SERIAL NUMBER: EMC1  
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UL Apex Co.,Ltd. Yamakita No.2 Shielded Room  
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REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)  
DATE : 2006/06/23  
TEMP./HUMI : 24deg.C./65%  
TEST MODE : Transmitting  
ENGINEER : Tatsuya Arai

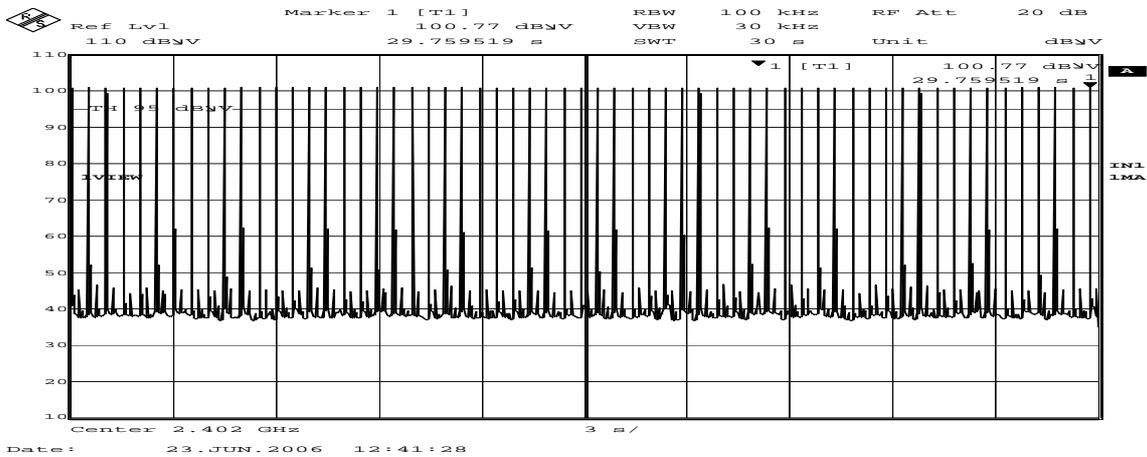
Hopping:  
Count 1



Count 2



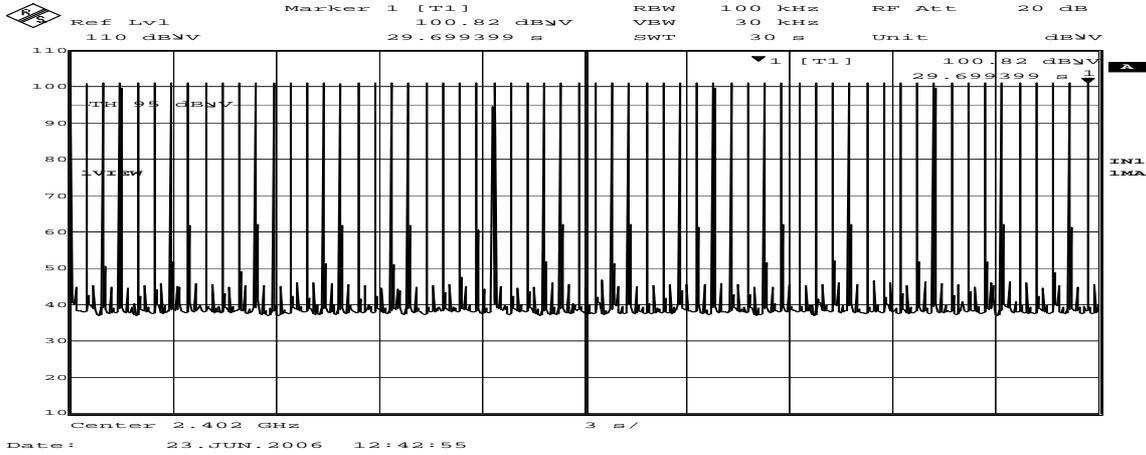
Count 3



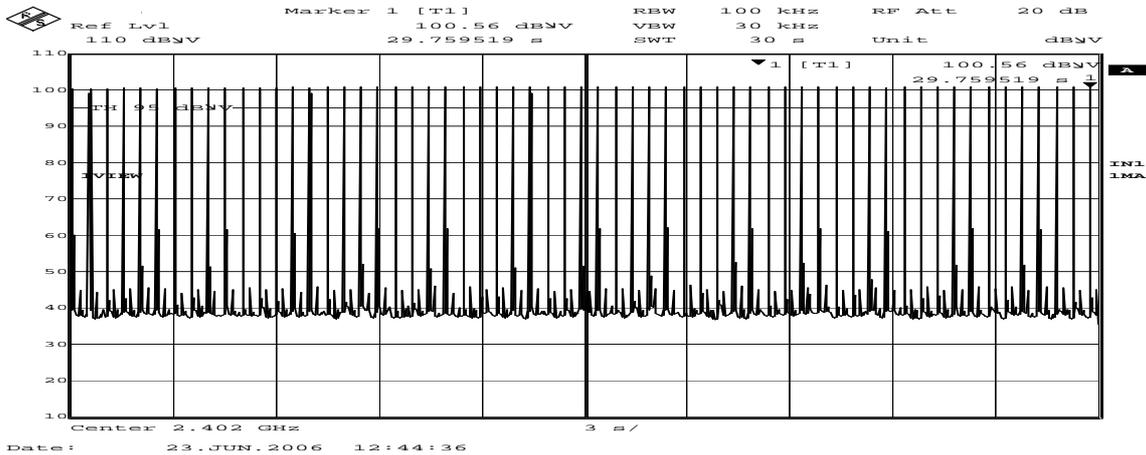
**Dwell Time: FCC 15.247(a)(1)(iii)**

<b>COMPANY</b>	: Sony EMCS Corporation Saitama TEC	<b>REPORT NO</b>	: 26IE0237-YK-A
<b>EQUIPMENT</b>	: Wireless Stereo Headset	<b>REGULATION</b>	: Fcc Part15SubpartC 247(a)(1)(iii)
<b>MODEL NUMBER</b>	: DR-BT30Q	<b>DATE</b>	: 2006/06/23
<b>SERIAL NUMBER</b>	: EMC1	<b>TEMP./HUMI</b>	: 24deg.C./65%
<b>FCC ID</b>	: AK8DRBT30Q	<b>TEST MODE</b>	: Transmitting
<b>POWER</b>	: DC3.7V	<b>ENGINEER</b>	: Tatsuya Arai

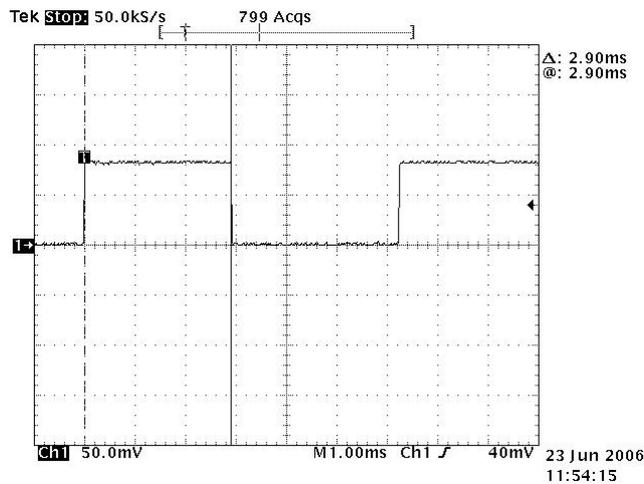
Count 4



Count 5



**Duty cycle(Hopping)**



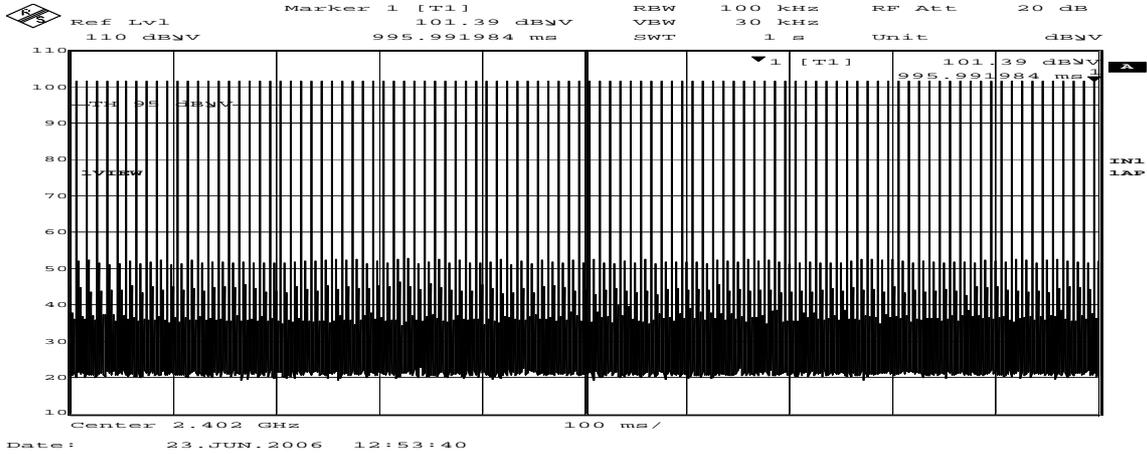
Average times of rising in 30 sec. of sweep = (61 + 61 + 61 + 61 + 61) / 5 = 61  
 Average times of rising in 1 sec. = 61 / 30s = 2.03  
 Average times of rising in 0.4x = 0.4 \* 79ch \* 2.03 = 64.15  
 Dwell time = 64.15 \* 2.90 = 186.04 [ms]  
 Limit : Dwell Time < 0.4[s]

Dwell Time: FCC 15.247(a)(1)(iii)

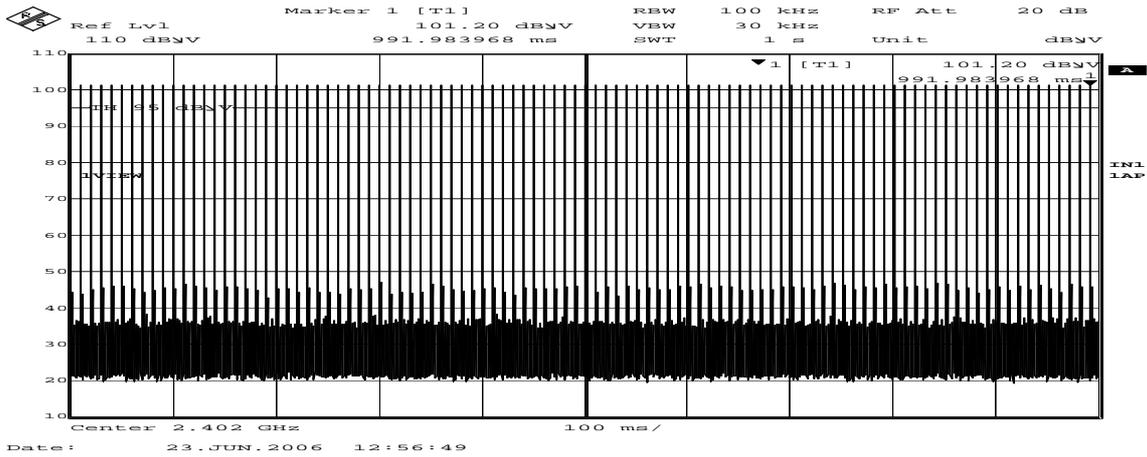
COMPANY : Sony EMCS Corporation Saitama TEC  
EQUIPMENT : Wireless Stereo Headset  
MODEL NUMBER: DR-BT30Q  
SERIAL NUMBER: EMC1  
FCC ID : AK8DRBT30Q  
POWER : DC3.7V

UL Apex Co.,Ltd. Yamakita No.2 Shielded Room  
REPORT NO : 26IE0237-YK-A  
REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)  
DATE : 2006/06/23  
TEMP./HUMI : 24deg.C./65%  
TEST MODE : Transmitting  
ENGINEER : Tatsuya Arai

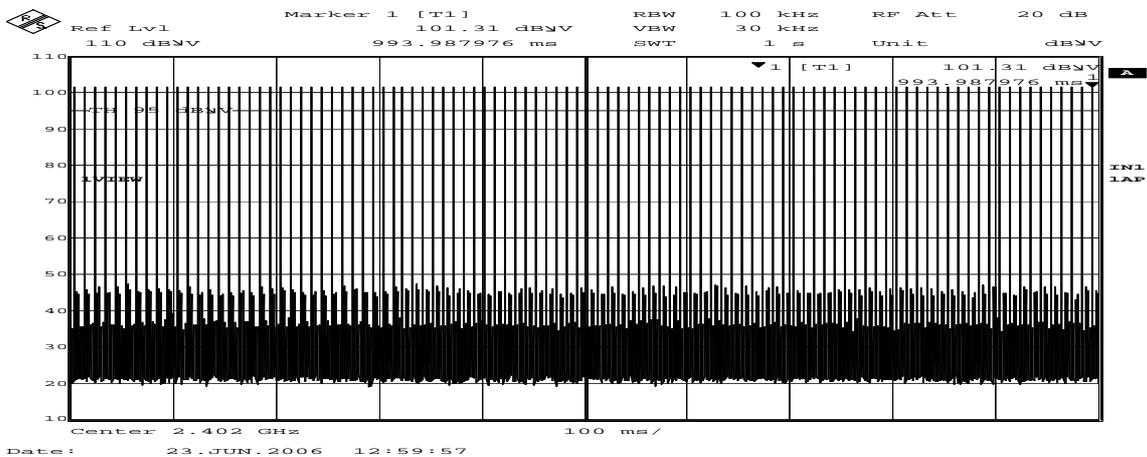
Inquiry:  
Count 1



Count 2



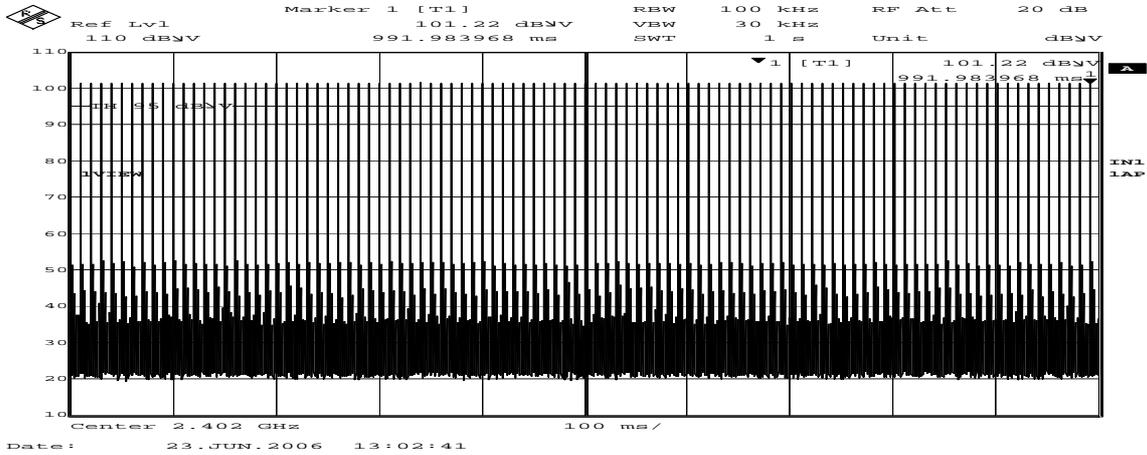
Count 3



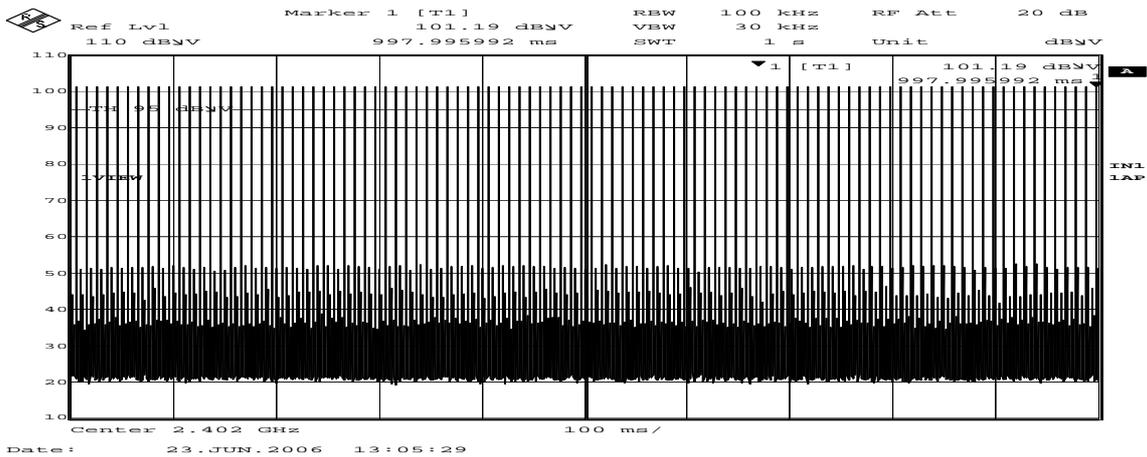
**Dwell Time: FCC 15.247(a)(1)(iii)**

<b>COMPANY</b>	: Sony EMCS Corporation Saitama TEC	<b>UL Apex Co.,Ltd. Yamakita No.2 Shielded Room</b>	
<b>EQUIPMENT</b>	: Wireless Stereo Headset	<b>REPORT NO</b>	: 26IE0237-YK-A
<b>MODEL NUMBER</b>	: DR-BT30Q	<b>REGULATION</b>	: Fcc Part15SubpartC 247(a)(1)(iii)
<b>SERIAL NUMBER</b>	: EMC1	<b>DATE</b>	: 2006/06/23
<b>FCC ID</b>	: AK8DRBT30Q	<b>TEMP./HUMI</b>	: 24deg.C./65%
<b>POWER</b>	: DC3.7V	<b>TEST MODE</b>	: Transmitting
		<b>ENGINEER</b>	: Tatsuya Arai

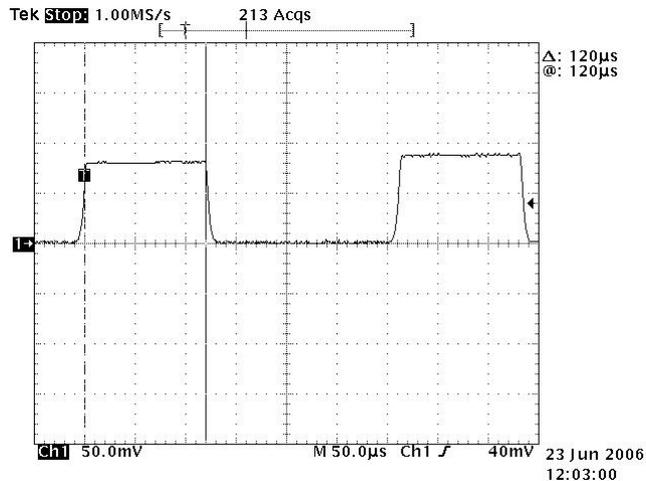
**Count 4**



**Count 5**



**Duty cycle(Inquiry)**



Average times of rising in 30 sec. of sweep =  $(100 + 100 + 100 + 100 + 100) / 5 = 100$   
 Average times of rising in 1 sec. =  $100 / 1s = 100.0$   
 Average times of rising in 0.4x =  $0.4 * 32ch * 100.0 = 1280.0$   
 Dwell time =  $1280.0 * 0.12 = 153.60 [ms]$   
 Limit : Dwell Time < 0.4[s]

# Maximum Peak Conducted Output Power

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

COMPANY : Sony EMCS Corporation Saitama TEC

EQUIPMENT : Wireless Stereo Headset

MODEL NUMBER: DR-BT30Q

SERIAL NUMBER: EMC1

FCC ID : AK8DRBT30Q

POWER : DC3.7V

TEST MODE : Transmitting

REPORT NO : 26IE0237-YK-A

REGULATION : Fcc Part15SubpartC 247(b)(1)

DATE : 2006/06/23

TEMP./HUMI : 24deg.C/65%

ENGINEER : Tatsuya Arai

CH	FREQ [GHz]	P/M Reading [dBm]	Cable Loss [dB]	Results [dBm]	Limit (125mW) [dBm]	MARGIN [dB]
Low	2402.00	-5.70	0.30	-5.40	20.96	26.36
Mid	2441.00	-6.70	0.30	-6.40	20.96	27.36
High	2480.00	-7.46	0.30	-7.16	20.96	28.12
Hopping	-	-6.62	0.30	-6.32	20.96	27.28
Inquiry	-	-6.20	0.30	-5.90	20.96	26.86

Limit: 125mW=20.96dBm

P/M: Power Meter

CABLE LOSS:KCC-D16

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

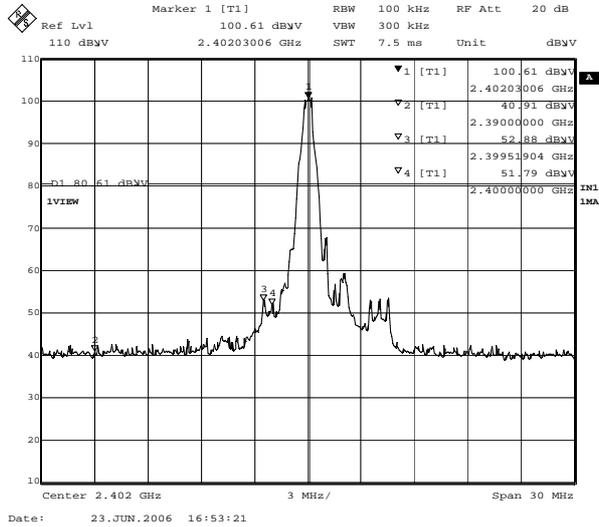
UL Apex Co.,Ltd. Yamakita No.2 Shielded Room

COMPANY : Sony EMCS Corporation Saitama TEC  
 EQUIPMENT : Wireless Stereo Headset  
 MODEL NUMBER: DR-BT30Q  
 SERIAL NUMBER: EMC1  
 FCC ID : AK8DRBT30Q  
 POWER : DC3.7V

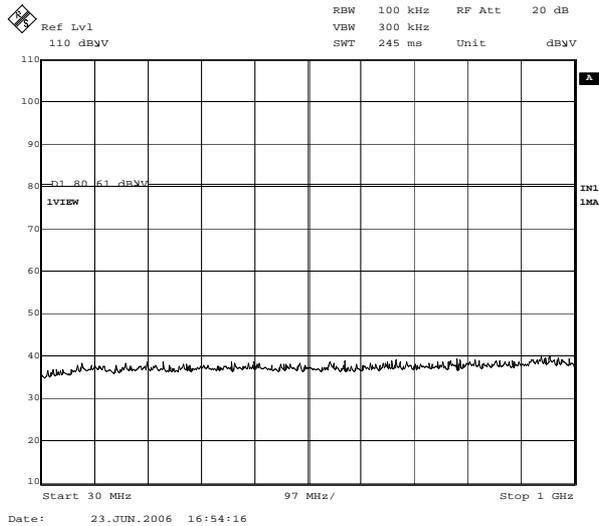
REPORT NO : 26IE0237-YK-A  
 REGULATION : Fcc Part15SubpartC 247(d)  
 DATE : 2006/06/23  
 TEMP./HUMI : 24deg.C./65%  
 TEST MODE : Transmitting (Hopping off)  
 ENGINEER : Tatsuya Arai

[Transmitting]  
 Ch:2402MHz

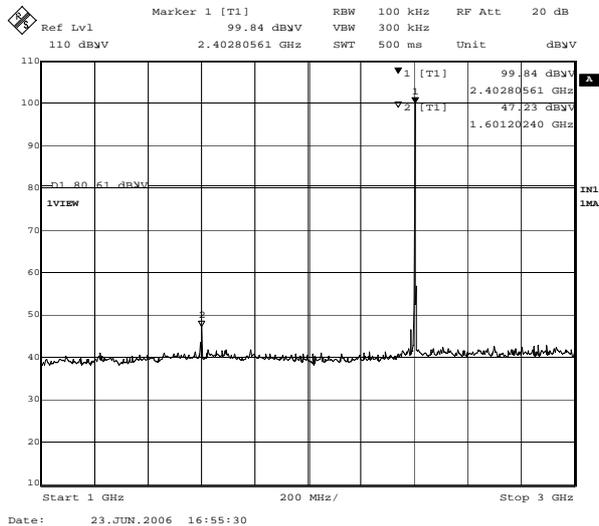
1.



2.



3.



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

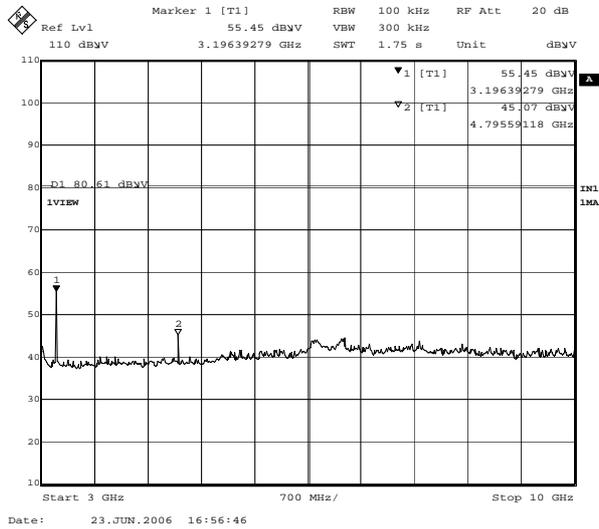
UL Apex Co.,Ltd. Yamakita No.2 Shielded Room

COMPANY : Sony EMCS Corporation Saitama TEC  
 EQUIPMENT : Wireless Stereo Headset  
 MODEL NUMBER: DR-BT30Q  
 SERIAL NUMBER: EMC1  
 FCC ID : AK8DRBT30Q  
 POWER : DC3.7V

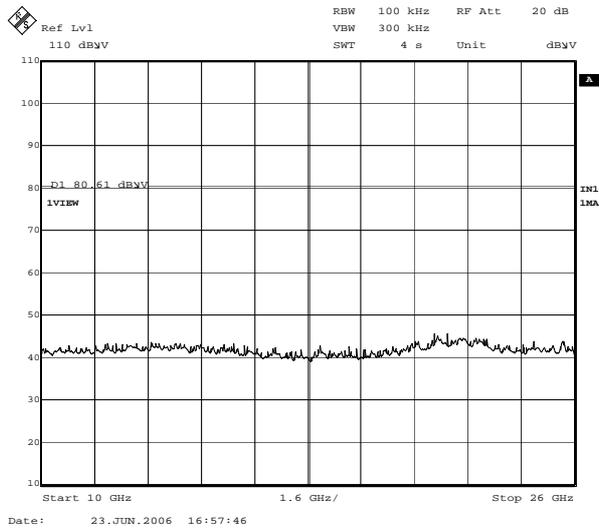
REPORT NO : 26IE0237-YK-A  
 REGULATION : Fcc Part15SubpartC 247(d)  
 DATE : 2006/06/23  
 TEMP./HUMI : 24deg.C./65%  
 TEST MODE : Transmitting (Hopping off)  
 ENGINEER : Tatsuya Arai

[Transmitting]  
 Ch:2402MHz

4.



5.



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

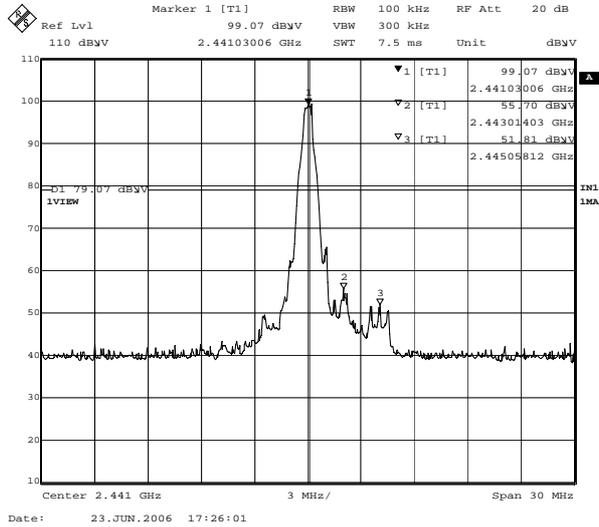
UL Apex Co.,Ltd. Yamakita No.2 Shielded Room

COMPANY : Sony EMCS Corporation Saitama TEC  
 EQUIPMENT : Wireless Stereo Headset  
 MODEL NUMBER: DR-BT30Q  
 SERIAL NUMBER: EMC1  
 FCC ID : AK8DRBT30Q  
 POWER : DC3.7V

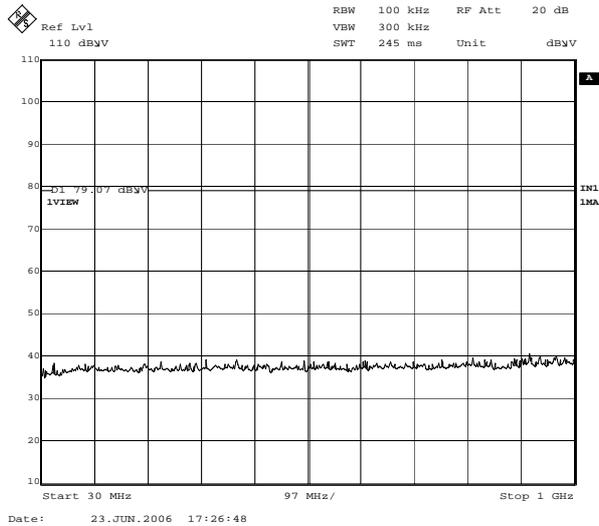
REPORT NO : 26IE0237-YK-A  
 REGULATION : Fcc Part15SubpartC 247(d)  
 DATE : 2006/06/23  
 TEMP./HUMI : 24deg.C./65%  
 TEST MODE : Transmitting (Hopping off)  
 ENGINEER : Tatsuya Arai

[Transmitting]  
 Ch:2441MHz

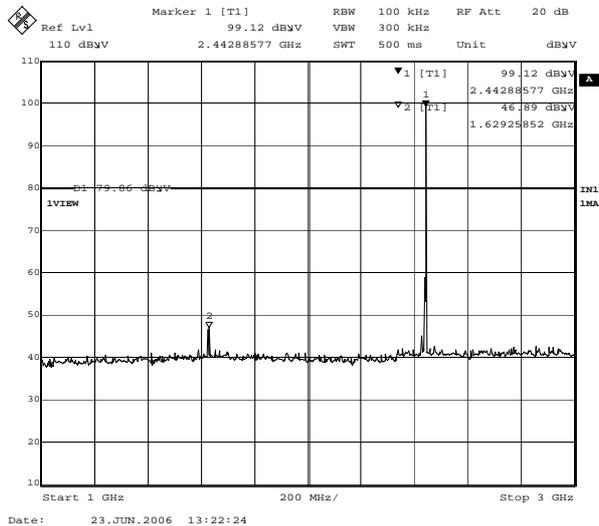
1.



2.



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

UL Apex Co.,Ltd. Yamakita No.2 Shielded Room

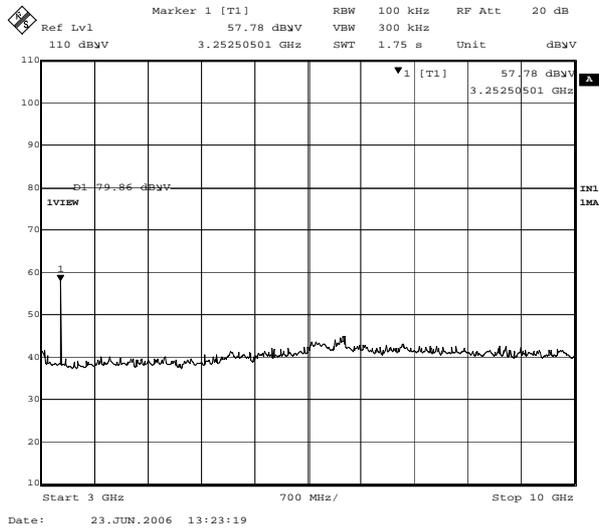
**COMPANY** : Sony EMCS Corporation Saitama TEC  
**EQUIPMENT** : Wireless Stereo Headset  
**MODEL NUMBER**: DR-BT30Q  
**SERIAL NUMBER**: EMC1  
**FCC ID** : AK8DRBT30Q  
**POWER** : DC3.7V

**REPORT NO** : 26IE0237-YK-A  
**REGULATION** : Fcc Part15SubpartC 247(d)  
**DATE** : 2006/06/23  
**TEMP./HUMI** : 24deg.C./65%  
**TEST MODE** : Transmitting (Hopping off)  
**ENGINEER** : Tatsuya Arai

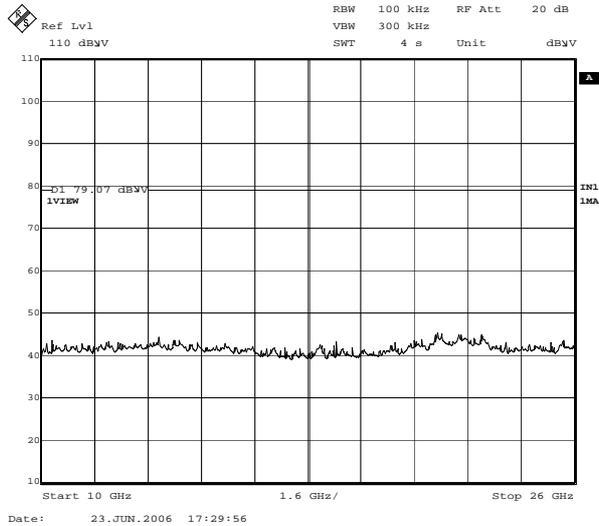
[Transmitting]

Ch:2441MHz

4.



5.



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

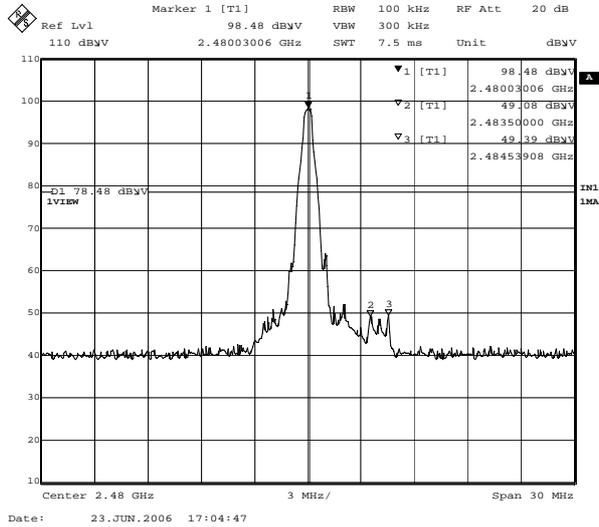
UL Apex Co.,Ltd. Yamakita No.2 Shielded Room

COMPANY : Sony EMCS Corporation Saitama TEC  
 EQUIPMENT : Wireless Stereo Headset  
 MODEL NUMBER: DR-BT30Q  
 SERIAL NUMBER: EMC1  
 FCC ID : AK8DRBT30Q  
 POWER : DC3.7V

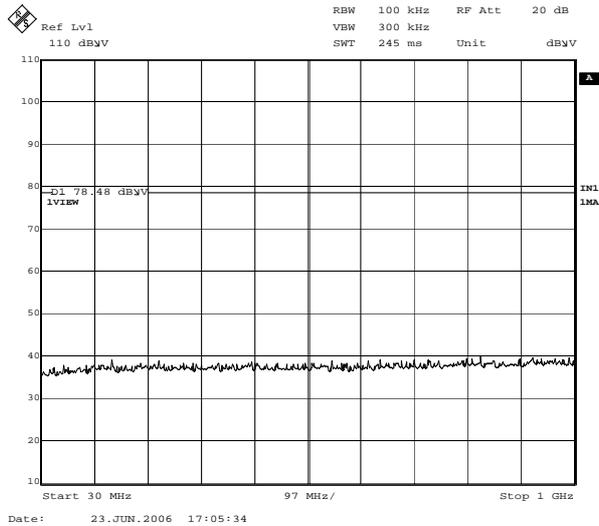
REPORT NO : 26IE0237-YK-A  
 REGULATION : Fcc Part15SubpartC 247(d)  
 DATE : 2006/06/23  
 TEMP./HUMI : 24deg.C./65%  
 TEST MODE : Transmitting (Hopping off)  
 ENGINEER : Tatsuya Arai

[Transmitting]  
 Ch11:2480MHz

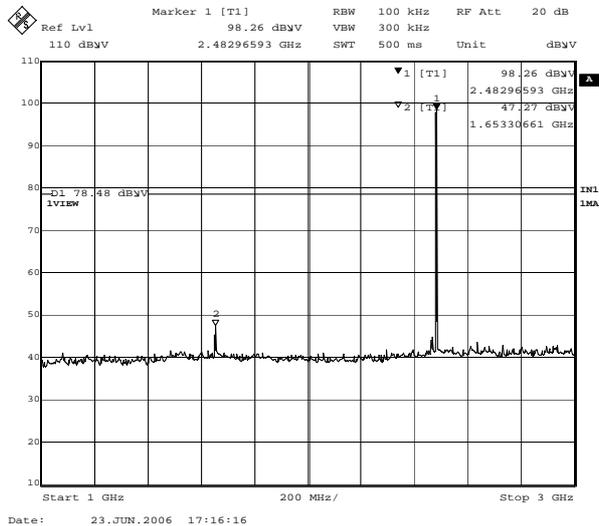
1.



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

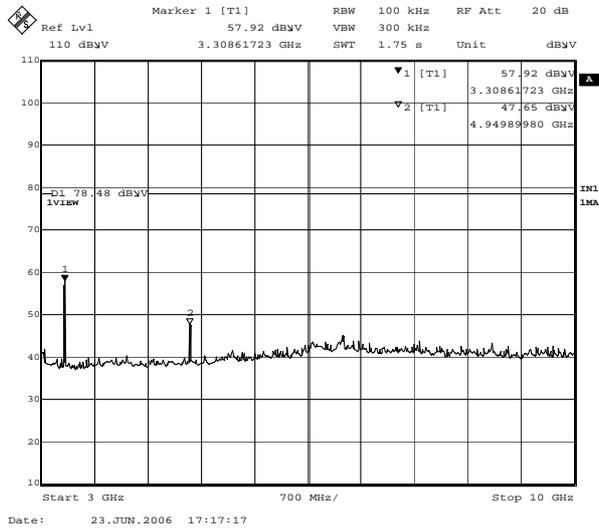
UL Apex Co.,Ltd. Yamakita No.2 Shielded Room

**COMPANY** : Sony EMCS Corporation Saitama TEC  
**EQUIPMENT** : Wireless Stereo Headset  
**MODEL NUMBER**: DR-BT30Q  
**SERIAL NUMBER**: EMC1  
**FCC ID** : AK8DRBT30Q  
**POWER** : DC3.7V

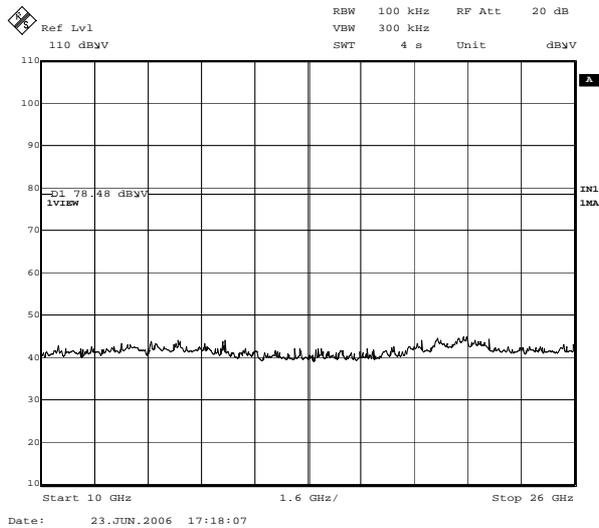
**REPORT NO** : 26IE0237-YK-A  
**REGULATION** : Fcc Part15SubpartC 247(d)  
**DATE** : 2006/06/23  
**TEMP./HUMI** : 24deg.C./65%  
**TEST MODE** : Transmitting (Hopping off)  
**ENGINEER** : Tatsuya Arai

[Transmitting]  
Ch:2480MHz

4.



5.



# DATA OF RADIATION TEST

UL Apex Co.,Ltd.  
YAMAKITA No.1 ANECHOIC CHAMBER  
Report No. : 261E0237-YK - A

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Wireless Stereo Headset  
 Model No. : DR-BT30Q  
 Serial No. : EMC1  
 Power : DC3.7V  
 Mode : Transmitting (2402MHz)  
 Remarks :  
 Date : 6/22/2006  
 Test Distance : 3 m  
 Temperature : 24 °C  
 Humidity : 66 %  
 Regulation : FCC Part15C §15.209

Engineer : Tatsuya Arai

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.	120.00	BB	27.6	27.7	13.5	28.4	2.3	6.1	21.1	21.2	43.5	22.4	22.3
2.	200.87	BB	37.6	33.2	17.1	28.0	2.9	6.0	35.6	31.2	43.5	7.9	12.3
3.	480.00	BB	28.0	28.1	18.4	28.9	5.1	6.0	28.6	28.7	46.0	17.4	17.3

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

■ ANTENNA: KBA-03 (BBA9106) 30-299MHz/KLA-03 (USLP9143) 300-1000MHz  
 ■ AMP: KAF-05 (8447D) ■ RECEIVER: KTR-01 (ES140) ■ KCC-30\_31\_32\_34 (RE)

# DATA OF RADIATION TEST

UL Apex Co.,Ltd.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 261E0237-YK - A

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Wireless Stereo Headset  
 Model No. : DR-BT30Q  
 Serial No. : EMC1  
 Power : DC3.7V  
 Mode : Transmitting (2441MHz)  
 Remarks :  
 Date : 6/22/2006  
 Test Distance : 3 m  
 Temperature : 24 °C  
 Humidity : 66 %  
 Regulation : FCC Part15C § 15.209

Engineer : Tatsuya Arai

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.	120.00	BB	27.7	27.8	13.5	28.4	2.3	6.1	21.2	21.3	43.5	22.3	22.2
2.	202.35	BB	38.1	33.0	17.1	28.0	3.0	6.0	36.2	31.1	43.5	7.3	12.4
3.	480.00	BB	28.1	28.2	18.4	28.9	5.1	6.0	28.7	28.8	46.0	17.3	17.2

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

■ ANTENNA: KBA-03 (BBA9106) 30-299MHz/KLA-03 (USLP9143) 300-1000MHz

■ AMP: KAF-05 (8447D) ■ RECEIVER: KTR-01 (ES140) ■ KCC-30\_31\_32\_34 (RE)

# DATA OF RADIATION TEST

UL Apex Co.,Ltd.  
YAMAKITA No.1 ANECHOIC CHAMBER  
Report No. : 261E0237-YK-A

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Wireless Stereo Headset  
 Model No. : DR-BT300  
 Serial No. : EMC1  
 Power : DC3.7V  
 Mode : Transmitting (2480MHz)  
 Remarks :  
 Date : 6/22/2006  
 Test Distance : 3 m  
 Temperature : 24 °C  
 Humidity : 66 %  
 Regulation : FCC Part15C §15.209

Engineer : Tatsuya Arai

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.	120.00	BB	27.5	27.8	13.5	28.4	2.3	6.1	21.0	21.3	43.5	22.5	22.2
2.	202.09	BB	36.8	32.7	17.1	28.0	3.0	6.0	34.9	30.8	43.5	8.6	12.7
3.	480.00	BB	28.1	28.3	18.4	28.9	5.1	6.0	28.7	28.9	46.0	17.3	17.1

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

■ ANTENNA: KBA-03 (BBA9106) 30-299MHz/KLA-03 (USLP9143) 300-1000MHz  
 ■ AMP: KAF-05 (8447D) ■ RECEIVER: KTR-01 (ESI40) ■ KCC-30\_31\_32\_34 (RE)

# DATA OF RADIATION TEST

UL Apex Co.,Ltd.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 261E0237-YK - A

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Wireless Stereo Headset  
 Model No. : DR-BT30Q  
 Serial No. : EMC1  
 Power : DC3.7V  
 Mode : Transmitting(2402MHz)  
 Remarks : PK Detector RBW:1MHz, VBW:1MHz  
 Date : 6/22/2006  
 Test Distance : 3 m  
 Temperature : 24 °C  
 Humidity : 66 %  
 Regulation : FCC Part15BC § 15.209 (a) (PK) 1-18GHz:3m/18-40GHz:1m  
Engineer : Tatsuya Arai

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	2390.00	BB	44.0	43.7	28.7	36.8	4.0	9.9	49.8	49.5	74.0	24.2	24.5	
2.	2400.00	BB	62.5	61.0	28.7	36.8	4.0	9.9	68.3	66.8	74.0	5.7	7.2	
3.	4804.00	BB	44.2	43.9	32.9	37.1	5.8	0.5	46.3	46.0	74.0	27.7	28.0	
4.	7206.00	BB	43.8	43.9	36.4	36.9	6.6	0.5	50.4	50.5	74.0	23.6	23.5	
5.	9608.00	BB	43.8	43.9	38.4	37.0	7.6	1.0	53.8	53.9	74.0	20.2	20.1	
6.	12010.00	BB	42.6	43.6	40.6	36.2	9.0	0.4	56.4	57.4	74.0	17.6	16.6	
7.	14412.00	BB	42.5	43.4	43.0	33.7	9.1	0.7	61.6	62.5	74.0	12.4	11.5	
8.	16814.00	BB	44.0	44.0	42.1	34.4	9.6	0.3	61.6	61.6	74.0	12.4	12.4	
9.	19216.00	BB	45.2	44.5	40.9	33.5	10.1	0.0	62.7	62.0	83.5	20.8	21.5	
10.	21618.00	BB	46.3	46.0	40.6	33.2	10.8	0.0	64.5	64.2	83.5	19.0	19.3	
11.	24020.00	BB	48.3	48.0	40.5	33.3	11.5	0.0	67.0	66.7	83.5	16.5	16.8	

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) ■ SPECTRUM ANALYZER: KSA-04 (R3271A)

# DATA OF RADIATION TEST

UL Apex Co.,Ltd.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 261E0237-YK-A

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Wireless Stereo Headset  
 Model No. : DR-BT30Q  
 Serial No. : EMC1  
 Power : DC3. 7V  
 Mode : Transmitting (2402MHz)  
 Remarks : AV Detector RBW:1MHz, VBW:10Hz  
 Date : 6/22/2006  
 Test Distance : 3 m  
 Temperature : 24 °C  
 Humidity : 66 %  
 Regulation : FCC Part15C § 15. 209 (a) 1-18GHz:3m/18-40GHz:1m

Engineer : Tatsuya Arai

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	2390.00	BB	32.0	32.0	28.7	36.8	4.0	9.9	37.8	37.8	54.0	16.2	16.2	
2.	2400.00	BB	45.7	44.8	28.7	36.8	4.0	9.9	51.5	50.6	54.0	2.5	3.4	
3.	4804.00	BB	32.1	31.2	32.9	37.1	5.8	0.5	34.2	33.3	54.0	19.8	20.7	
4.	7206.00	BB	31.5	31.3	36.4	36.9	6.6	0.5	38.1	37.9	54.0	15.9	16.1	
5.	9608.00	BB	31.9	31.9	38.4	37.0	7.6	1.0	41.9	41.9	54.0	12.1	12.1	
6.	12010.00	BB	30.9	31.4	40.6	36.2	9.0	0.4	44.7	45.2	54.0	9.3	8.8	
7.	14412.00	BB	31.0	31.0	43.0	33.7	9.1	0.7	50.1	50.1	54.0	3.9	3.9	
8.	16814.00	BB	32.4	32.3	42.1	34.4	9.6	0.3	50.0	49.9	54.0	4.0	4.1	
9.	19216.00	BB	33.5	33.1	40.9	33.5	10.1	0.0	51.0	50.6	63.5	12.5	12.9	
10.	21618.00	BB	34.1	34.5	40.6	33.2	10.8	0.0	52.3	52.7	63.5	11.2	10.8	
11.	24020.00	BB	35.7	35.9	40.5	33.3	11.5	0.0	54.4	54.6	63.5	9.1	8.9	

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) ■ SPECTRUM ANALYZER: KSA-04 (R3271A)

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# DATA OF RADIATION TEST

UL Apex Co.,Ltd.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 261E0237-YK - A

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Wireless Stereo Headset  
 Model No. : DR-BT30Q  
 Serial No. : EMC1  
 Power : DC3.7V  
 Mode : Transmitting(2441MHz)  
 Remarks : PK Detector RBW:1MHz, VBW:1MHz  
 Date : 6/22/2006  
 Test Distance : 3 m  
 Temperature : 24 °C Engineer : Tatsuya Arai  
 Humidity : 66 %  
 Regulation : FCC Part15BC § 15.209 (a) (PK) 1-18GHz:3m/18-40GHz:1m

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	4882.00	BB	43.7	43.6	33.1	37.2	5.8	0.5	45.9	45.8	74.0	28.1	28.2	
2.	7323.00	BB	42.9	43.0	36.6	37.0	6.7	0.5	49.7	49.8	74.0	24.3	24.2	
3.	9764.00	BB	44.8	44.1	38.5	37.0	7.6	0.9	54.8	54.1	74.0	19.2	19.9	
4.	12205.00	BB	43.6	42.9	40.5	35.8	8.8	0.5	57.6	56.9	74.0	16.4	17.1	
5.	14646.00	BB	43.1	42.8	43.0	34.1	9.3	0.7	62.0	61.7	74.0	12.0	12.3	
6.	17087.00	BB	43.5	43.5	43.2	34.0	9.7	0.4	62.8	62.8	74.0	11.2	11.2	
7.	19528.00	BB	45.6	45.4	40.9	34.4	10.2	0.0	62.3	62.1	83.5	21.2	21.4	
8.	21969.00	BB	46.7	46.5	40.8	33.7	11.0	0.0	64.8	64.6	83.5	18.7	18.9	
9.	24410.00	BB	48.1	48.3	40.7	33.0	11.5	0.0	67.3	67.5	83.5	16.2	16.0	

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) ■ SPECTRUM ANALYZER: KSA-04 (R3271A)

Page:

# DATA OF RADIATION TEST

UL Apex Co.,Ltd.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 261E0237-YK-A

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Wireless Stereo Headset  
 Model No. : DR-BT30Q  
 Serial No. : EMC1  
 Power : DC3.7V  
 Mode : Transmitting(2441MHz)  
 Remarks : AV Detector RBW:1MHz, VBW:10Hz  
 Date : 6/22/2006  
 Test Distance : 3 m  
 Temperature : 24 °C  
 Humidity : 66 %  
 Regulation : FCC Part15C § 15.209 (a) 1-18GHz:3m/18-40GHz:1m  
Engineer : Tatsuya Arai

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	4882.00	BB	31.3	31.0	33.1	37.2	5.8	0.5	33.5	33.2	54.0	20.5	20.8	
2.	7323.00	BB	30.7	30.7	36.6	37.0	6.7	0.5	37.5	37.5	54.0	16.5	16.5	
3.	9764.00	BB	31.8	31.9	38.5	37.0	7.6	0.9	41.8	41.9	54.0	12.2	12.1	
4.	12205.00	BB	30.9	31.3	40.5	35.8	8.8	0.5	44.9	45.3	54.0	9.1	8.7	
5.	14646.00	BB	31.1	31.2	43.0	34.1	9.3	0.7	50.0	50.1	54.0	4.0	3.9	
6.	17087.00	BB	31.6	31.5	43.2	34.0	9.7	0.4	50.9	50.8	54.0	3.1	3.2	
7.	19528.00	BB	33.1	33.3	40.9	34.4	10.2	0.0	49.8	50.0	63.5	13.7	13.5	
8.	21969.00	BB	34.4	34.2	40.8	33.7	11.0	0.0	52.5	52.3	63.5	11.0	11.2	
9.	24410.00	BB	35.5	35.8	40.7	33.0	11.5	0.0	54.7	55.0	63.5	8.8	8.5	

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) ■ SPECTRUM ANALYZER: KSA-04 (R3271A)

# DATA OF RADIATION TEST

UL Apex Co.,Ltd.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 261E0237-YK - A

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Wireless Stereo Headset  
 Model No. : DR-BT30Q  
 Serial No. : EMC1  
 Power : DC3.7V  
 Mode : Transmitting(2480MHz)  
 Remarks : PK Detector RBW:1MHz, VBW:1MHz  
 Date : 6/22/2006  
 Test Distance : 3 m  
 Temperature : 24 °C  
 Humidity : 66 %  
 Regulation : FCC Part15BC § 15.209 (a) (PK) 1-18GHz:3m/18-40GHz:1m  
Engineer : Tatsuya Arai

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER	HOR [dB]	VER		
1.	2483.50	BB	54.1	56.8	28.8	36.8	4.0	9.9	60.0	62.7	74.0	14.0	11.3	
2.	4960.00	BB	43.0	43.6	33.3	37.3	5.8	0.4	45.2	45.8	74.0	28.8	28.2	
3.	7440.00	BB	42.0	42.9	36.9	37.0	6.7	0.5	49.1	50.0	74.0	24.9	24.0	
4.	9920.00	BB	44.4	44.7	38.6	36.9	7.6	0.8	54.5	54.8	74.0	19.5	19.2	
5.	12400.00	BB	43.6	44.7	40.4	35.4	8.6	0.6	57.8	58.9	74.0	16.2	15.1	
6.	14880.00	BB	42.8	43.3	42.3	34.8	9.5	0.6	60.4	60.9	74.0	13.6	13.1	
7.	17360.00	BB	44.2	45.0	44.5	34.2	9.7	0.2	64.4	65.2	74.0	9.6	8.8	
8.	19840.00	BB	45.5	45.3	40.9	33.9	10.3	0.0	62.8	62.6	83.5	20.7	20.9	
9.	22320.00	BB	46.5	46.2	40.9	33.1	11.0	0.0	65.3	65.0	83.5	18.2	18.5	
10.	24800.00	BB	48.2	48.4	40.9	33.5	11.7	0.0	67.3	67.5	83.5	16.2	16.0	

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) ■ SPECTRUM ANALYZER: KSA-04 (R3271A)

Page:

# DATA OF RADIATION TEST

UL Apex Co.,Ltd.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 261E0237-YK A

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Wireless Stereo Headset  
 Model No. : DR-BT30Q  
 Serial No. : EMC1  
 Power : DC3.7V  
 Mode : Transmitting(2480MHz)  
 Remarks : AV Detector RBW:1MHz, VBW:10Hz  
 Date : 6/22/2006  
 Test Distance : 3 m  
 Temperature : 24 °C Engineer : Tatsuya Arai  
 Humidity : 66 %  
 Regulation : FCC Part15C § 15.209(a) 1-18GHz:3m/18-40GHz:1m

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
			HOR [dB μV]	VER [dB μV]					HOR [dB μV/m]	VER [dB μV/m]	HOR [dB]	VER [dB]		
1.	2483.50	BB	33.6	36.0	28.8	36.8	4.0	9.9	39.5	41.9	54.0	14.5	12.1	
2.	4960.00	BB	31.1	31.5	33.3	37.3	5.8	0.4	33.3	33.7	54.0	20.7	20.3	
3.	7440.00	BB	42.0	42.9	36.9	37.0	6.7	0.5	49.1	50.0	54.0	4.9	4.0	
4.	9920.00	BB	32.1	32.7	38.6	36.9	7.6	0.8	42.2	42.8	54.0	11.8	11.2	
5.	12400.00	BB	30.8	30.9	40.4	35.4	8.6	0.6	45.0	45.1	54.0	9.0	8.9	
6.	14880.00	BB	30.9	31.2	42.3	34.8	9.5	0.6	48.5	48.8	54.0	5.5	5.2	
7.	17360.00	BB	32.5	32.3	44.5	34.2	9.7	0.2	52.7	52.5	54.0	1.3	1.5	
8.	19840.00	BB	33.3	33.2	40.9	33.9	10.3	0.0	50.6	50.5	63.5	12.9	13.0	
9.	22320.00	BB	34.2	34.4	40.9	33.1	11.0	0.0	53.0	53.2	63.5	10.5	10.3	
10.	24800.00	BB	35.8	36.0	40.9	33.5	11.7	0.0	54.9	55.1	63.5	8.6	8.4	

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) ■ SPECTRUM ANALYZER: KSA-04 (R3271A)

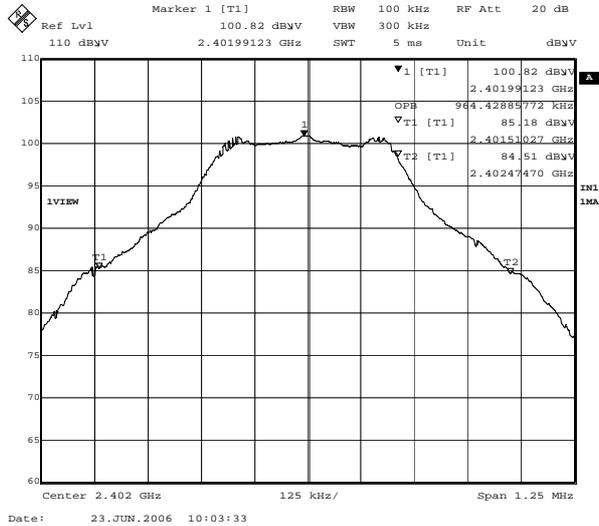
Page:

## Occupied Bandwidth(99%)

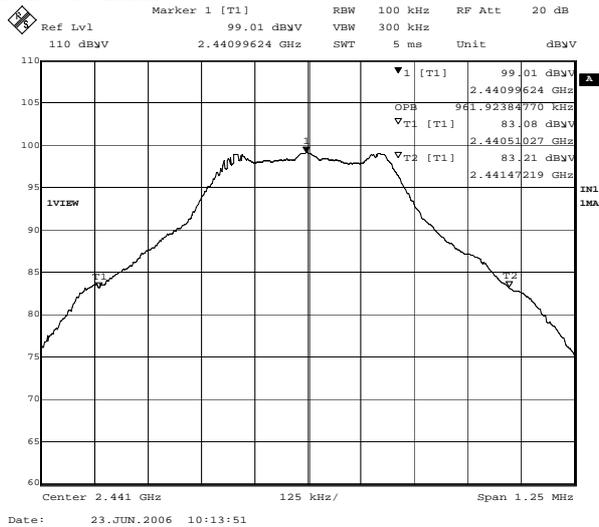
**COMPANY** : Sony EMCS Corporation Saitama TEC  
**EQUIPMENT** : Wireless Stereo Headset  
**MODEL NUMBER**: DR-BT30Q  
**SERIAL NUMBER**: EMC1  
**FCC ID** : AK8DRBT30Q  
**POWER** : DC3.7V

**UL Apex Co.,Ltd. Yamakita No.2 Shielded Room**  
**REPORT NO** : 26IE0237-YK-A  
**REGULATION** : RSS-210  
**DATE** : 2006/06/23  
**TEMP./HUMI** : 24deg.C./65%  
**TEST MODE** : Transmitting  
**ENGINEER** : Tatsuya Arai

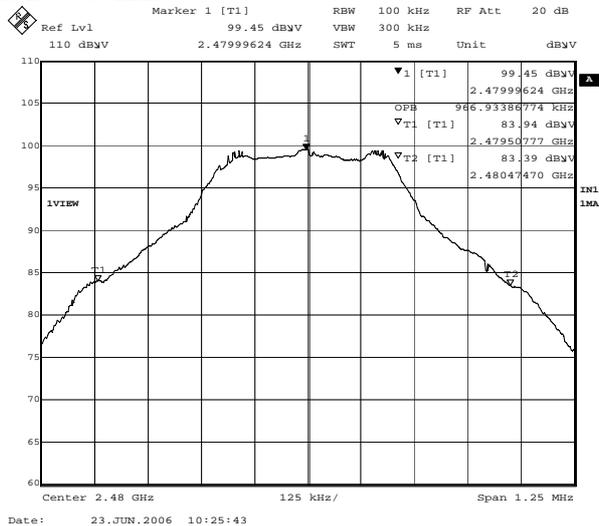
### 1. ch : 2402MHz/Occupied Bandwidth:964.43kHz



### 2. ch : 2437MHz/Occupied Bandwidth:961.92kHz



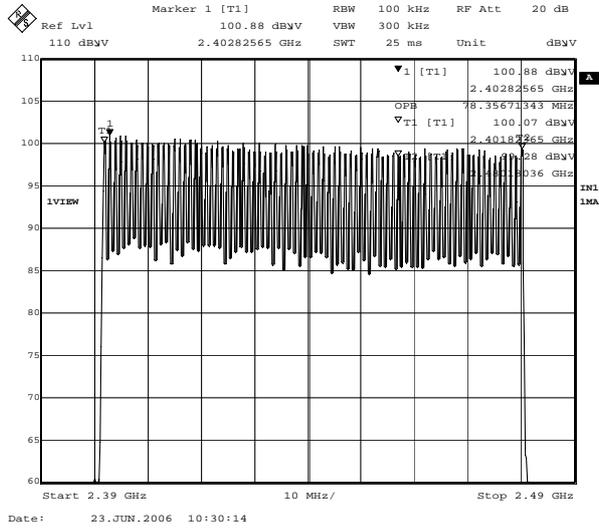
### 3. ch : 2462MHz/Occupied Bandwidth:966.93kHz



## Occupied Bandwidth(99%)

<p>COMPANY : Sony EMCS Corporation Saitama TEC</p> <p>EQUIPMENT : Wireless Stereo Headset</p> <p>MODEL NUMBER: DR-BT30Q</p> <p>SERIAL NUMBER: EMC1</p> <p>FCC ID : AK8DRBT30Q</p> <p>POWER : DC3.7V</p>	<p style="text-align: center;">UL Apex Co.,Ltd. Yamakita No.2 Shielded Room</p> <p>REPORT NO : 26IE0237-YK-A</p> <p>REGULATION : RSS-210</p> <p>DATE : 2006/06/23</p> <p>TEMP./HUMI : 24deg.C./65%</p> <p>TEST MODE : Transmitting</p> <p>ENGINEER : Tatsuya Arai</p>
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### 4. Hopping/Occupied Bandwidth:78.36MHz



Test Report No :26IE0237-YK-A

### APPENDIX 3 Test Instruments

#### EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
YA-RE	Radiated emission(software)	UL-Apex	RE(Ver.1.5)	RE	-
KAEC-01(NSA)	Anechoic Chamber	JSE	Semi 3m	RE	2005/09/03 * 12
KAF-05	Pre Amplifier	Agilent	8447D	RE	2006/04/21 * 12
KAT6-01	Attenuator	INMET	18N-6dB	RE	2006/03/24 * 12
KBA-03	Biconical Antenna	Schwarzbeck	BBA9106	RE	2006/01/17 * 12
KCC-30/31/32 /34/KRM-03	Coaxial Cable/RF Relay Matrix	Fujikura/Suhner/TSJ	5D-2W/S04272B/RFM-E421	RE	2005/12/22 * 12
KLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2006/01/17 * 12
KSA-04	Spectrum Analyzer	Advantest	R3271A	RE	2005/09/13 * 12
KTR-01	Test Receiver	Rohde & Schwarz	ESI40	RE/AT 1,2,3,4,6	2005/08/05 * 12
KOS-01	Digital Humidity Indicator	Custom	CTH-190	AT all	2004/08/19 * 24
KOS-02	Digital Humidity Indicator	Custom	CTH-190	RE	2004/07/22 * 24
KAF-02	Pre Amplifier	Hewlett Packard	8449B	RE	2006/04/24 * 12
KAT10-S1	Attenuator	Agilent	8449D 010	RE	2006/04/11 * 12
KCC-D3/D7	Coaxial Cable	Rosenberger/Advantest	2201/JUN-08-01-061	RE	2006/04/11 * 12
KCC-D16	Coaxial Cable	INSULATED WIRE INC	KPS-1501-200-KPS	AT all	2005/09/02 * 12
KDT-01	Coaxial Crystal Detector	Agilent	8473C	AT 4	Pre Check
KFL-01	Highpass Filter	Hewlett Packard	84300 80038	RE	2006/04/11 * 12
KHA-01	Horn Antenna	A.H.Systems	SAS-200/571	RE	2005/08/20 * 12
KHA-03	Horn Antenna	EMCO	3160-09	RE	2006/04/10 * 12
KPM-05	Power meter	Agilent	E4417A	AT 5	2006/02/16 * 12
KPSS-01	Power sensor	Agilent	E9327A	AT 5	2006/03/15 * 12
KST-09	Digitizing Oscilloscope	Tektronix	TDS420A	AT 4	2005/08/31 * 12

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

#### Test Item :

RE: Out of Band Emission (Radiated)

AT: Antenna terminal conducted test

1: Carrier Frequency Separation

2: 20dB Bandwidth

3: Number of Hopping Frequency

4: Dwell time

5: Maximum Peak Output Power

6: Out of Band Emission (Conducted)