



# EMI TEST REPORT

**Test Report No. : 26IE0239-YK-A**

**Applicant** : Sony EMCS Corporation Saitama TEC  
**Type of Equipment** : Wireless Stereo Headset  
**Model No.** : DR-BT10CX  
**FCC ID** : AK8DRBT10CX  
**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:** July 4 and 7, 2006

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

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

**UL Apex Co., Ltd.**

**YAMAKITA EMC LAB.**

907 Kawanishi, Yamakita-machi, Ashigarakami-gun, Kanagawa-ken, 258-0124 JAPAN

Telephone: +81 465 77 1011

Facsimile: +81 465 77 2112

MF060b (14.06.06)

| <b>Table of Contents</b>                                 | <b>Page</b> |
|--|-------------|
| <b>1 Applicant Information</b>                           | <b>3</b>    |
| <b>2 Product Description</b>                             | <b>4</b>    |
| <b>3 Test Specification, Procedures and Results</b>      | <b>5</b>    |
| <b>4 System Test Configuration</b>                       | <b>7</b>    |
| <b>5 Carrier Frequency Separation</b>                    | <b>8</b>    |
| <b>6 20dB Bandwidth</b>                                  | <b>8</b>    |
| <b>7 Number of Hopping Frequency</b>                     | <b>8</b>    |
| <b>8 Dwell time</b>                                      | <b>8</b>    |
| <b>9 Maximum Peak Output Power</b>                       | <b>8</b>    |
| <b>10 Out of Band Emissions (Antenna Port Conducted)</b> | <b>8</b>    |
| <b>11 Out of Band Emissions (Radiated)</b>               | <b>9</b>    |
| <b><u>Contents of Appendixes</u></b>                     | <b>10</b>   |
| <b>APPENDIX 1: Photographs of test setup</b>             | <b>11</b>   |
| <b>APPENDIX 2: Test Data</b>                             | <b>13</b>   |
| <b>APPENDIX 3: Test instruments</b>                      | <b>40</b>   |

---

***UL Apex Co., Ltd.***

***YAMAKITA EMC LAB.***

907 Kawanishi, Yamakita-machi, Ashigarakami-gun, Kanagawa-ken, 258-0124 JAPAN

Telephone: +81 465 77 1011

Facsimile: +81 465 77 2112

MF060b (14.06.06)

## 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

---

***UL Apex Co., Ltd.***

***YAMAKITA EMC LAB.***

907 Kawanishi, Yamakita-machi, Ashigarakami-gun, Kanagawa-ken, 258-0124 JAPAN

Telephone: +81 465 77 1011

Facsimile: +81 465 77 2112

MF060b (14.06.06)

## 2 Product Description

Type of Equipment : Wireless Stereo Headset  
Model No. : DR-BT10CX  
Serial No. : #4A (Radiated emission test), #3A (the other tests)  
Rating : DC3.7V  
Country of Manufacture : Malaysia  
Receipt Date of Sample : June 29, 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-BT10CX (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.

---

***UL Apex Co., Ltd.***

***YAMAKITA EMC LAB.***

907 Kawanishi, Yamakita-machi, Ashigarakami-gun, Kanagawa-ken, 258-0124 JAPAN

Telephone: +81 465 77 1011

Facsimile: +81 465 77 2112

MF060b (14.06.06)

### 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<br>7. AC powerline conducted emission measurements | Section 15.207                    | -                          | N/A<br>*1 | N/A          | N/A   |
| Carrier Frequency Separation | ANSI C63.4:2003<br>13. Measurement of intentional radiators        | Section15.247<br>(a)(1)           | Conducted                  | N/A       | *See data.   | Complied                                      |
| 20dB Bandwidth               | ANSI C63.4:2003<br>13. Measurement of intentional radiators        | Section15.247<br>(a)(1)           | Conducted                  | N/A       |              | Complied                                      |
| Number of Hopping Frequency  | ANSI C63.4:2003<br>13. Measurement of intentional radiators        | Section15.247<br>(a)(1)(iii)      | Conducted                  | N/A       |              | Complied                                      |
| Dwell time                   | ANSI C63.4:2003<br>13. Measurement of intentional radiators        | Section15.247<br>(a)(1)(iii)      | Conducted                  | N/A       |              | Complied                                      |
| Maximum Peak Output Power    | ANSI C63.4:2003<br>13. Measurement of intentional radiators        | Section15.247<br>(b)(1)           | Conducted                  | N/A       |              | Complied                                      |
| Spurious Emission            | ANSI C63.4:2003<br>13. Measurement of intentional radiators        | Section15.209<br>Section15.247(d) | Conducted<br>/<br>Radiated | N/A       |              | 0.8dB (24410.00MHz, AV, Vertical, Tx 2441MHz) |

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.

**UL Apex Co., Ltd.**

**YAMAKITA EMC LAB.**

907 Kawanishi, Yamakita-machi, Ashigarakami-gun, Kanagawa-ken, 258-0124 JAPAN

Telephone: +81 465 77 1011

Facsimile: +81 465 77 2112

MF060b (14.06.06)

### 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.<br>(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            |  |                            |

---

**UL Apex Co., Ltd.**

**YAMAKITA EMC LAB.**

907 Kawanishi, Yamakita-machi, Ashigarakami-gun, Kanagawa-ken, 258-0124 JAPAN

Telephone: +81 465 77 1011

Facsimile: +81 465 77 2112

MF060b (14.06.06)

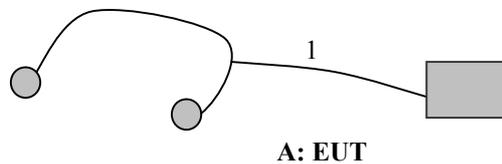
## 4 System Test Configuration

### 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 (*1) | Manufacturer | FCC ID (Remarks)     |
|-----|-------------------------|--------------|--------------------|--------------|----------------------|
| A   | Wireless Stereo Headset | DR-BT10CX    | #3A<br>#4A         | SONY         | AK8DRBT10CX<br>(EUT) |

\*1) For Radiated emission test, the sample with serial #4A was used and #3A was used for the other tests.

#### List of cables used

| No. | Name            | Length (m) | Shield     |            | Remark |
|-----|-----------------|------------|------------|------------|--------|
|     |                 |            | Connector  | Cable      |        |
| 1   | Headphone cable | 0.6        | Unshielded | Unshielded | -      |

**UL Apex Co., Ltd.**

**YAMAKITA EMC LAB.**

907 Kawanishi, Yamakita-machi, Ashigarakami-gun, Kanagawa-ken, 258-0124 JAPAN

Telephone: +81 465 77 1011

Facsimile: +81 465 77 2112

MF060b (14.06.06)

## 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: July 4, 2006

Test data: APPENDIX 2 Page 13  
Test engineer : Makoto Hosaka

## 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: July 4, 2006

Test data: APPENDIX 2 Page 14  
Test engineer : Makoto Hosaka

## 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: July 4, 2006

Test data: APPENDIX 2 Page 15 to 17  
Test engineer : Makoto Hosaka

## 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: July 4, 2006

Test data: APPENDIX 2 Page 18 to 21  
Test engineer : Makoto Hosaka

## 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: July 4, 2006

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

## 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: July 4, 2006

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

---

**UL Apex Co., Ltd.**

**YAMAKITA EMC LAB.**

907 Kawanishi, Yamakita-machi, Ashigarakami-gun, Kanagawa-ken, 258-0124 JAPAN

Telephone: +81 465 77 1011

Facsimile: +81 465 77 2112

MF060b (14.06.06)

## 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)  
 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. 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 Bandwidth | QP: BW 120kHz | PK: RBW: 1MHz/VBW: 1MHz, AV: RBW: 1MHz/VBW: 10Hz |

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.

|            | Below 1GHz | Above 1GHz |
|------------|------------|------------|
| Horizontal | Z          | X          |
| Vertical   | Y          | Z          |

### 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 : July 7, 2006 Test engineer : Go Ishiwata

**UL Apex Co., Ltd.**

**YAMAKITA EMC LAB.**

907 Kawanishi, Yamakita-machi, Ashigarakami-gun, Kanagawa-ken, 258-0124 JAPAN

Telephone: +81 465 77 1011  
 Facsimile: +81 465 77 2112

MF060b (14.06.06)

### **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 |
|---------|---|------------------|

---

***UL Apex Co., Ltd.***

***YAMAKITA EMC LAB.***

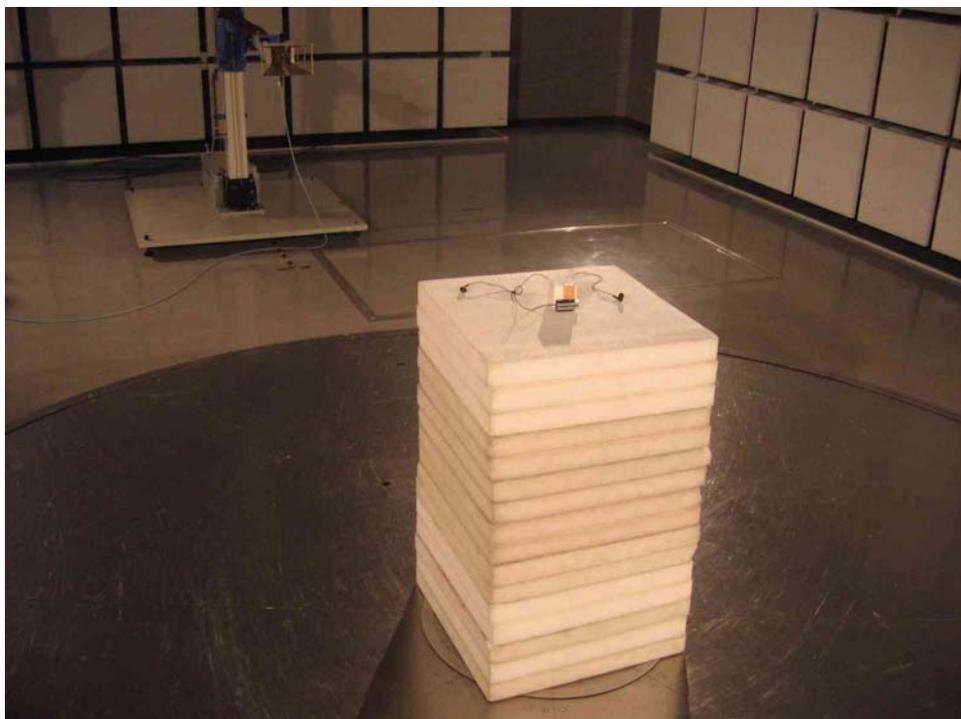
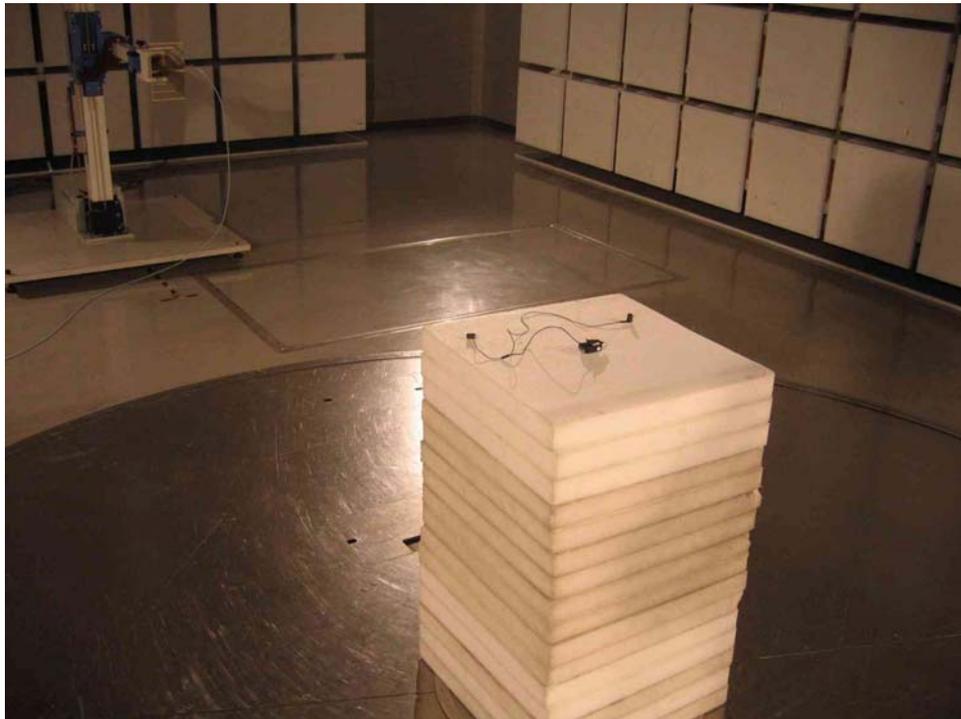
907 Kawanishi, Yamakita-machi, Ashigarakami-gun, Kanagawa-ken, 258-0124 JAPAN

Telephone: +81 465 77 1011

Facsimile: +81 465 77 2112

MF060b (14.06.06)

## Radiated emission



---

***UL Apex Co., Ltd.***

***YAMAKITA EMC LAB.***

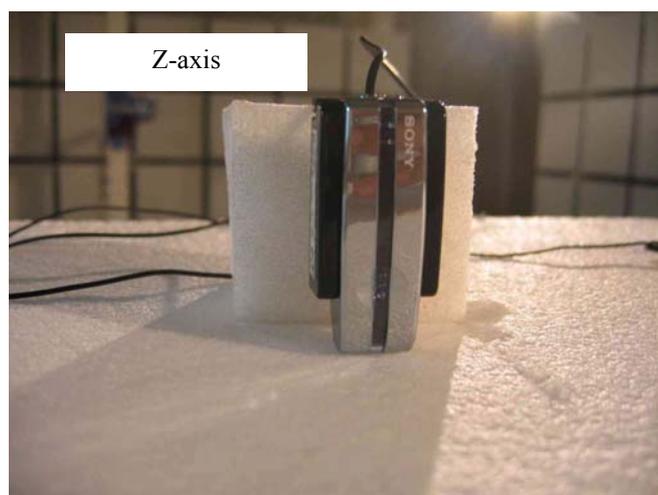
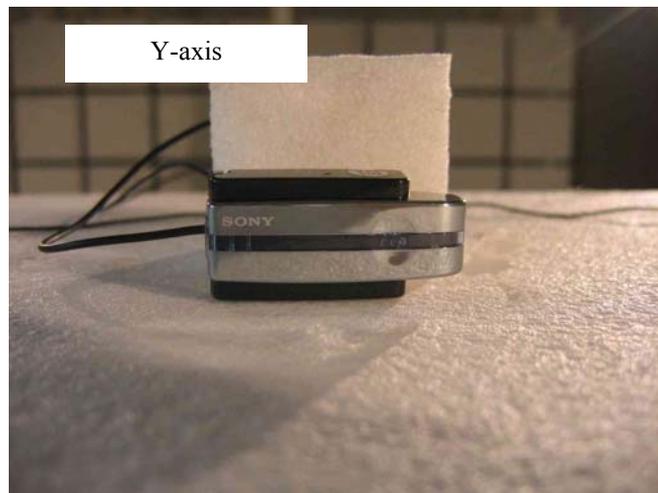
907 Kawanishi, Yamakita-machi, Ashigarakami-gun, Kanagawa-ken, 258-0124 JAPAN

Telephone: +81 465 77 1011

Facsimile: +81 465 77 2112

MF060b (14.06.06)

**Pre-check of the worst position**



---

**UL Apex Co., Ltd.**

**YAMAKITA EMC LAB.**

907 Kawanishi, Yamakita-machi, Ashigarakami-gun, Kanagawa-ken, 258-0124 JAPAN

Telephone: +81 465 77 1011

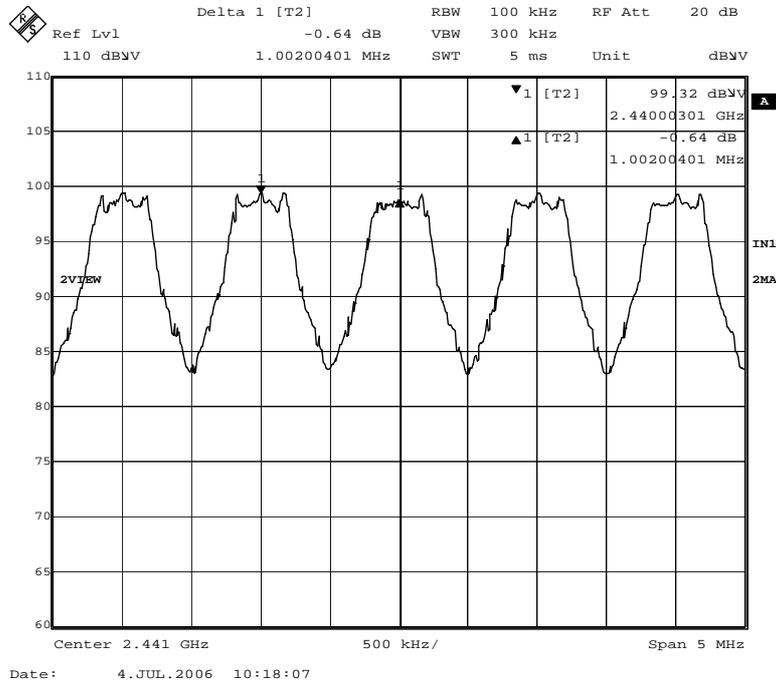
Facsimile: +81 465 77 2112

MF060b (14.06.06)

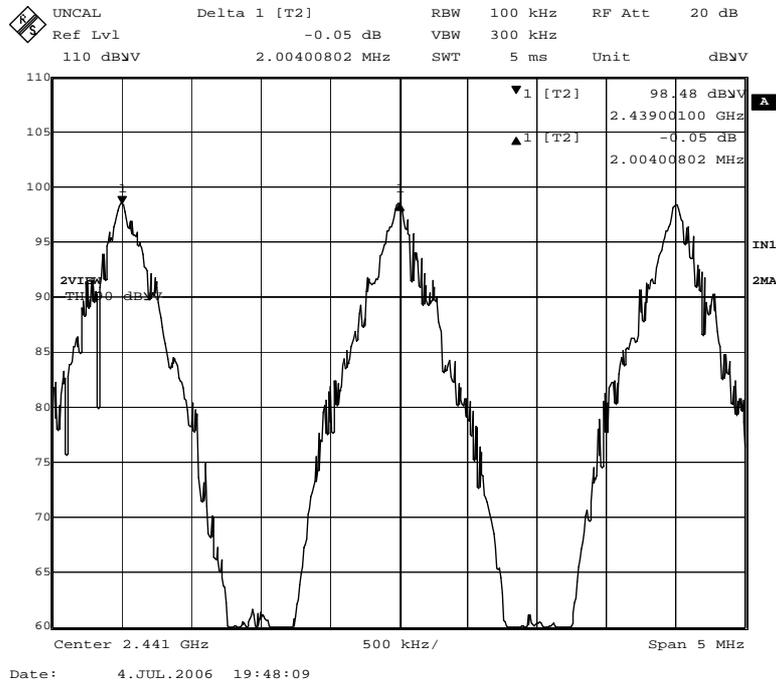
## Channel Separation: FCC 15.247(a)(1)

|  |   |
|--|---|
| <p>COMPANY : Sony EMCS Corporation Saitama TEC<br/>         EQUIPMENT : Wireless Stereo Headset<br/>         MODEL NUMBER: DR-BT10CX<br/>         SERIAL NUMBER: #3A<br/>         FCC ID : AK8DRBT10CX<br/>         POWER : DC3.7V</p> | <p>UL Apex Co.,Ltd. Yamakita No.2 Shielded Room<br/>         REPORT NO : 26IE0239-YK-A<br/>         REGULATION : Fcc Part15SubpartC 247(a)(1)<br/>         DATE : 2006/07/04<br/>         TEMP./HUMI : 22deg.C./68%<br/>         TEST MODE : Transmitting<br/>         ENGINEER : Makoto Hosaka</p> |
|--|---|

### 1. Hopping:1002.00kHz



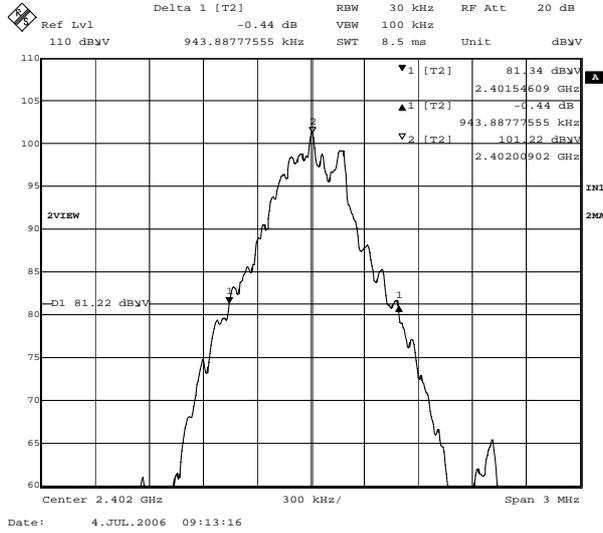
### 2. Inquiry:2004.01kHz



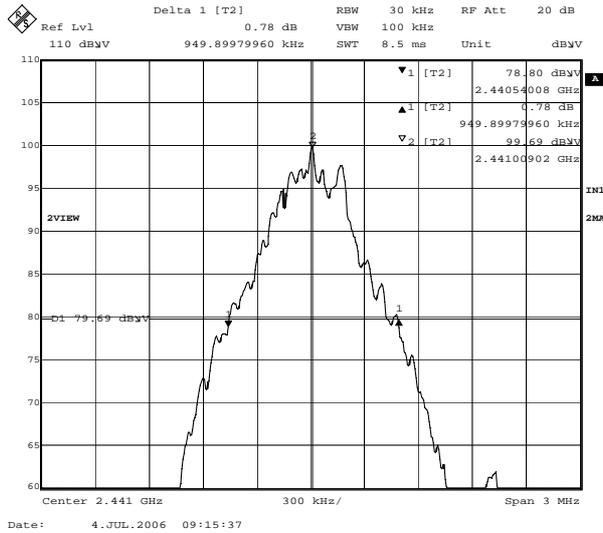
## 20dB Bandwidth: FCC 15.247(a)(1)

|  |  |
|--|--|
| <p><b>COMPANY</b> : Sony EMCS Corporation Saitama TEC</p> <p><b>EQUIPMENT</b> : Wireless Stereo Headset</p> <p><b>MODEL NUMBER</b>: DR-BT10CX</p> <p><b>SERIAL NUMBER</b>: #3A</p> <p><b>FCC ID</b> : AK8DRBT10CX</p> <p><b>POWER</b> : DC3.7V</p> | <p><b>UL Apex Co.,Ltd. Yamakita No.2 Shielded Room</b></p> <p><b>REPORT NO</b> : 26IE0239-YK-A</p> <p><b>REGULATION</b> : Fcc Part15SubpartC 247(a)(1)</p> <p><b>DATE</b> : 2006/07/04</p> <p><b>TEMP./HUMI</b> : 22deg.C./68%</p> <p><b>TEST MODE</b> : Transmitting (Hopping off)</p> <p><b>ENGINEER</b> : Makoto Hosaka</p> |
|--|--|

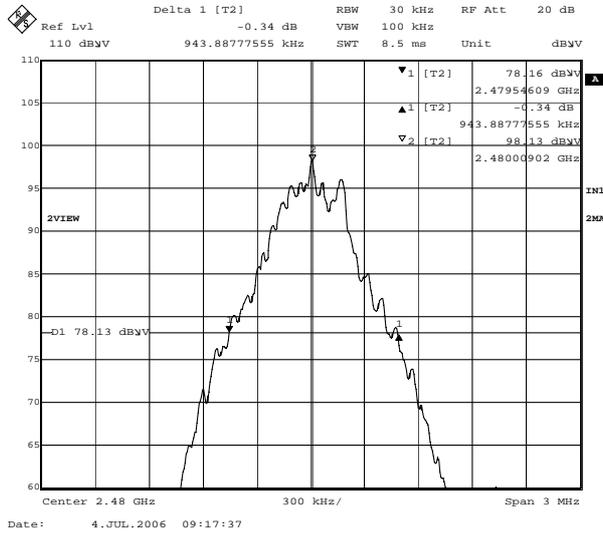
**1. ch : 2402MHz/20dB Bandwidth:943.89kHz**



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



**3. ch : 2480MHz/20dB Bandwidth:943.89kHz**



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

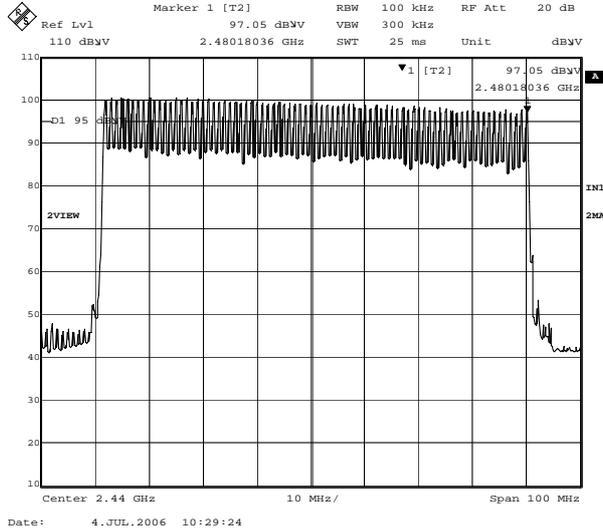
UL Apex Co.,Ltd. Yamakita No.2 Shielded Room

COMPANY : Sony EMCS Corporation Saitama TEC  
EQUIPMENT : Wireless Stereo Headset  
MODEL NUMBER: DR-BT10CX  
SERIAL NUMBER: #3A  
FCC ID : AK8DRBT10CX  
POWER : DC3.7V

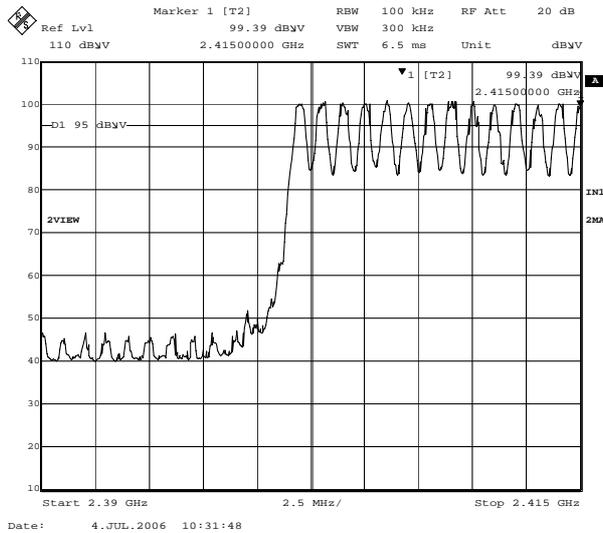
REPORT NO : 26IE0239-YK-A  
REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)  
DATE : 2006/07/04  
TEMP./HUMI : 22deg.C./68%  
TEST MODE : Transmitting  
ENGINEER : Makoto Hosaka

## Hopping: 79ch

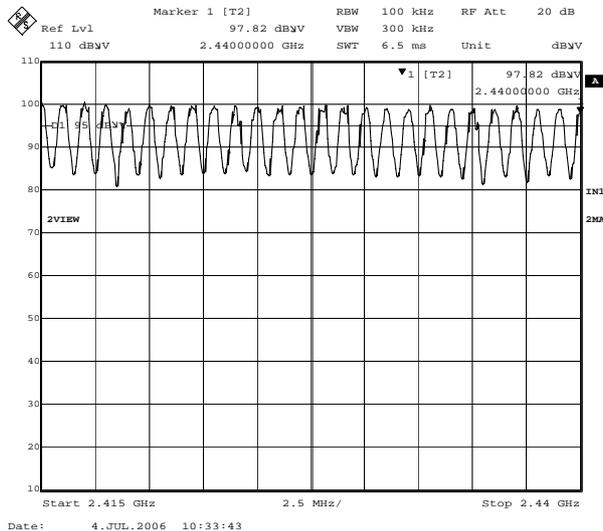
1.



2.



3.



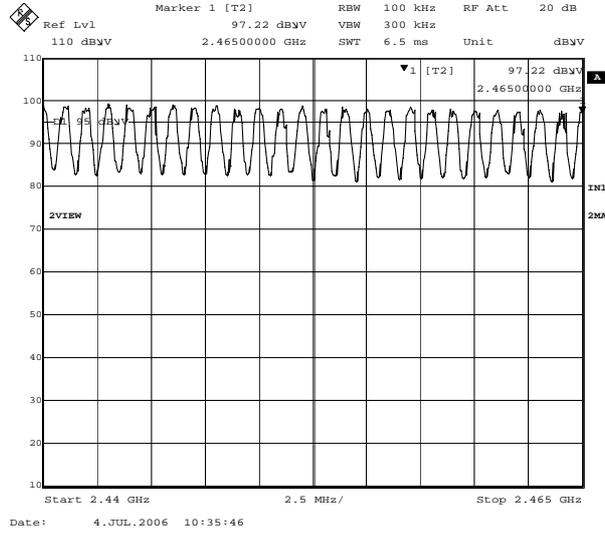
### Channel Utilization: FCC 15.247(a)(1)(iii)

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

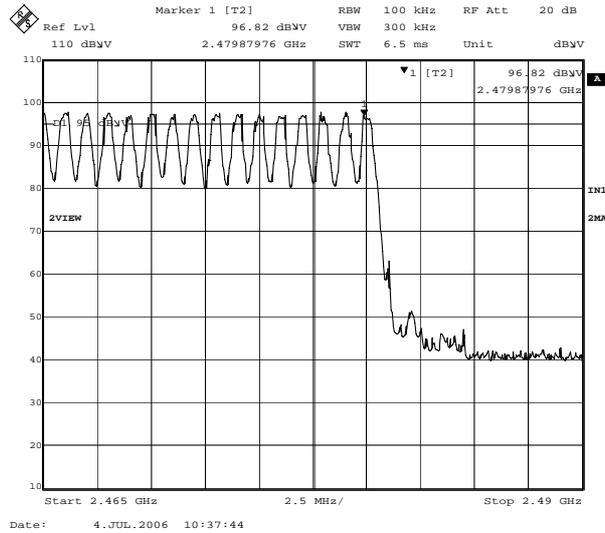
COMPANY : Sony EMCS Corporation Saitama TEC  
EQUIPMENT : Wireless Stereo Headset  
MODEL NUMBER: DR-BT10CX  
SERIAL NUMBER: #3A  
FCC ID : AK8DRBT10CX  
POWER : DC3.7V

REPORT NO : 26IE0239-YK-A  
REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)  
DATE : 2006/07/04  
TEMP./HUMI : 22deg.C./68%  
TEST MODE : Transmitting  
ENGINEER : Makoto Hosaka

4.



5.



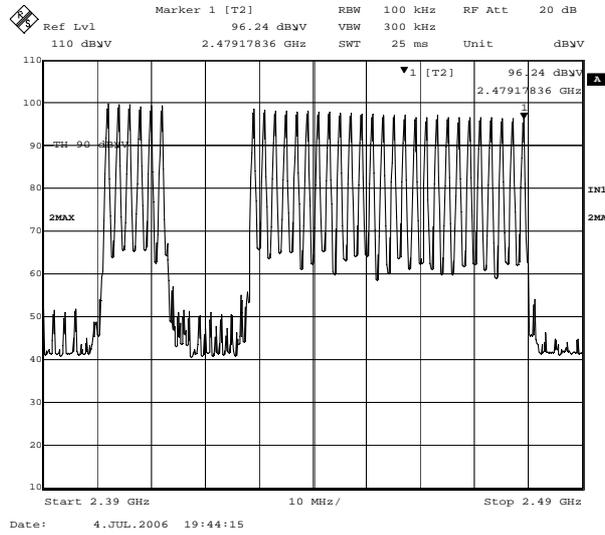
# Channel Utilization: FCC 15.247(a)(1)(iii)

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

COMPANY : Sony EMCS Corporation Saitama TEC  
EQUIPMENT : Wireless Stereo Headset  
MODEL NUMBER: DR-BT10CX  
SERIAL NUMBER: #3A  
FCC ID : AK8DRBT10CX  
POWER : DC3.7V

REPORT NO : 26IE0239-YK-A  
REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)  
DATE : 2006/07/04  
TEMP./HUMI : 22deg.C./68%  
TEST MODE : Transmitting  
ENGINEER : Makoto Hosaka

## 1. Inquiry: 32ch



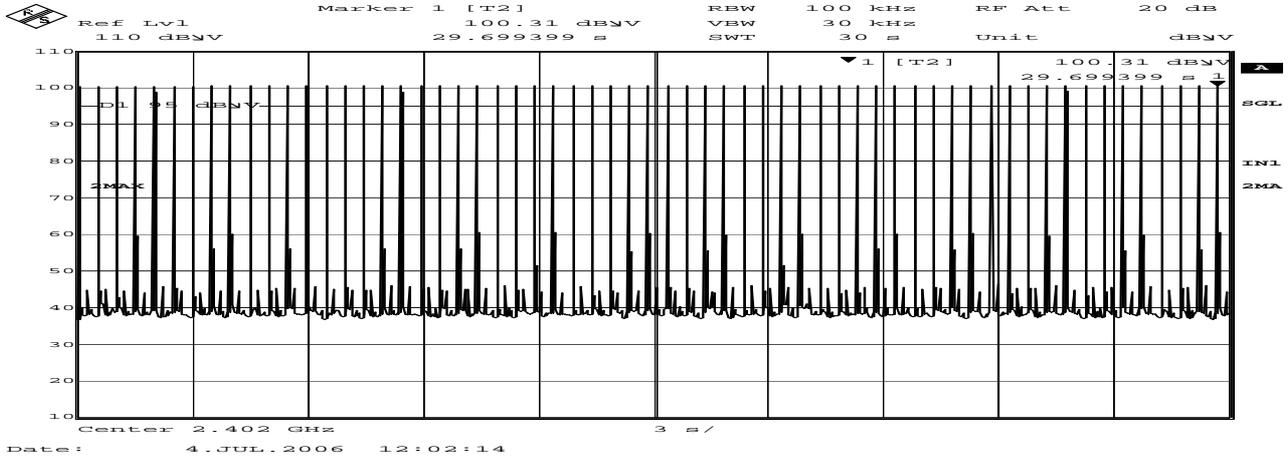
# Dwell Time: FCC 15.247(a)(1)(iii)

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

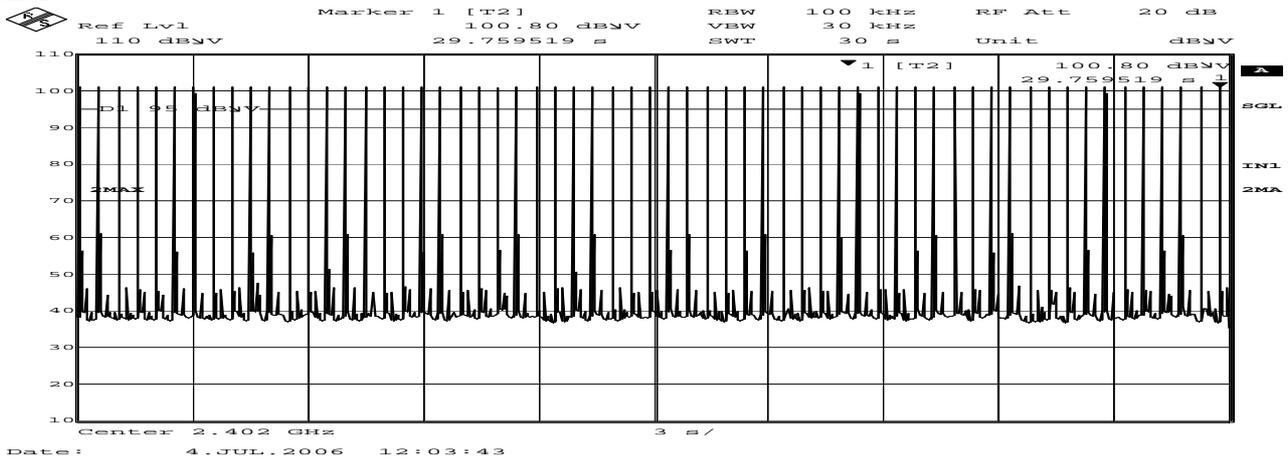
COMPANY : Sony EMCS Corporation Saitama TEC  
EQUIPMENT : Wireless Stereo Headset  
MODEL NUMBER: DR-BT10CX  
SERIAL NUMBER: #3A  
FCC ID : AK8DRBT10CX  
POWER : DC3.7V

REPORT NO : 26IE0239-YK-A  
REGULATION : Fcc Part15SubpartC 247(a)(1)(iii)  
DATE : 2006/07/04  
TEMP/HUMI : 22deg.C./68%  
TEST MODE : Transmitting  
ENGINEER : Makoto Hosaka

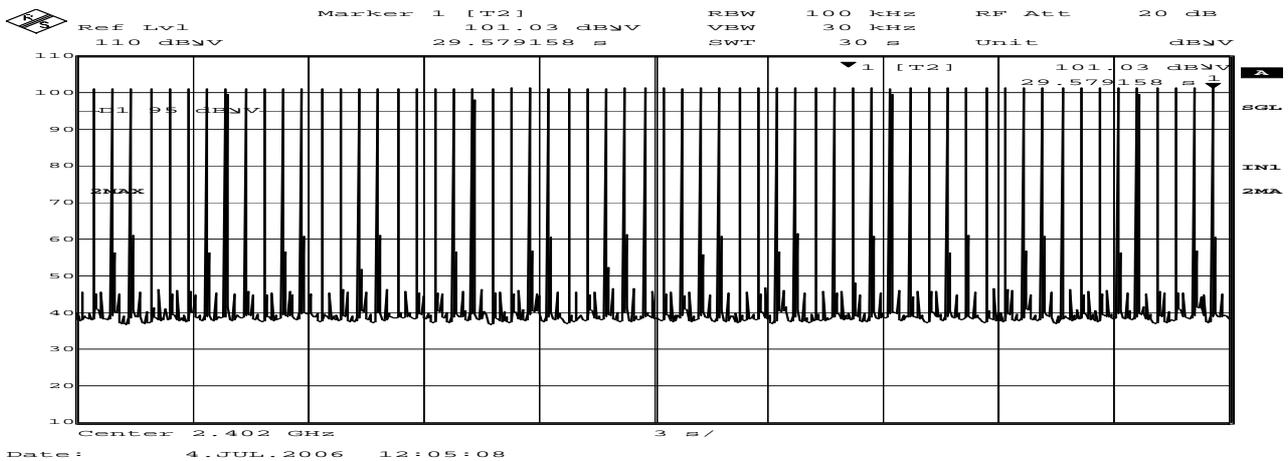
## Hopping: Count 1



## Count 2



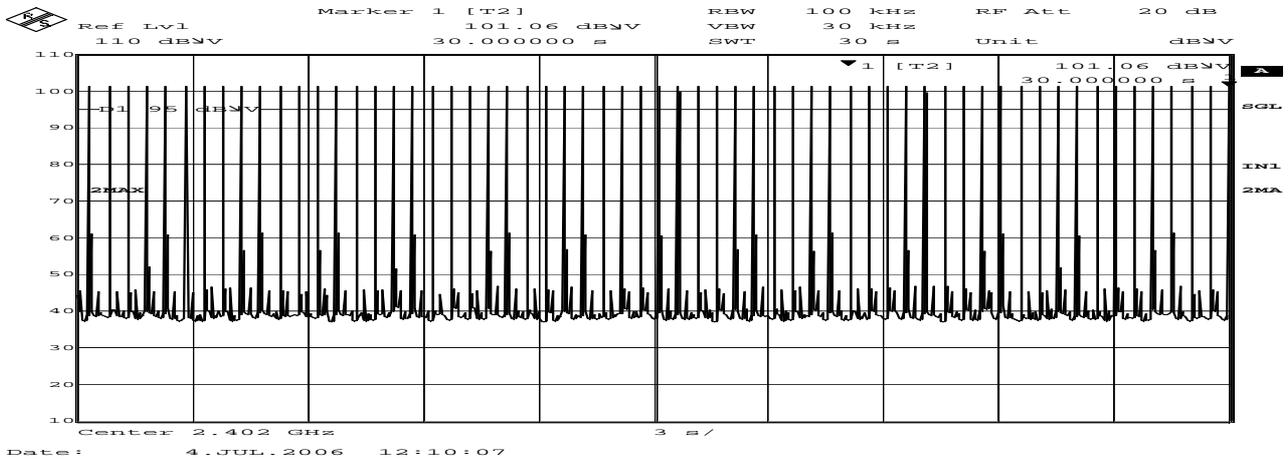
## Count 3



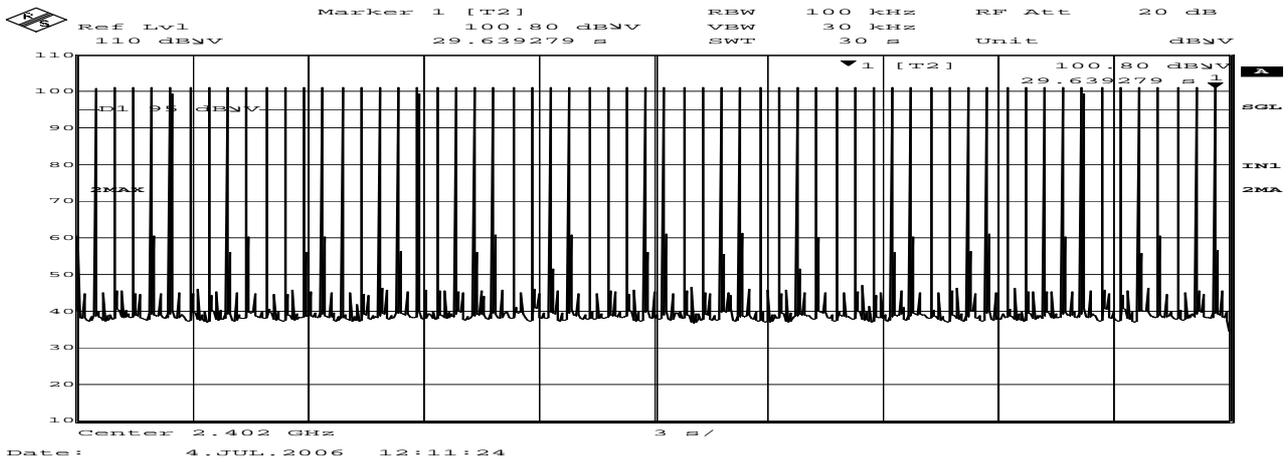
**Dwell Time: FCC 15.247(a)(1)(iii)**

|               |                                     |            |                                     |
|---------------|-------------------------------------|------------|-------------------------------------|
| COMPANY       | : Sony EMCS Corporation Saitama TEC | REPORT NO  | : 26IE0239-YK-A                     |
| EQUIPMENT     | : Wireless Stereo Headset           | REGULATION | : Fcc Part15SubpartC 247(a)(1)(iii) |
| MODEL NUMBER  | : DR-BT10CX                         | DATE       | : 2006/07/04                        |
| SERIAL NUMBER | : #3A                               | TEMP./HUMI | : 22deg.C./68%                      |
| FCC ID        | : AK8DRBT10CX                       | TEST MODE  | : Transmitting                      |
| POWER         | : DC3.7V                            | ENGINEER   | : Makoto Hosaka                     |

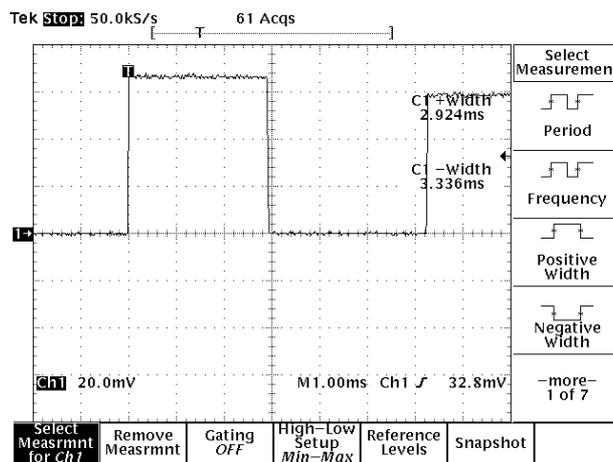
**Count 4**



**Count 5**



**Duty cycle(Hopping)**



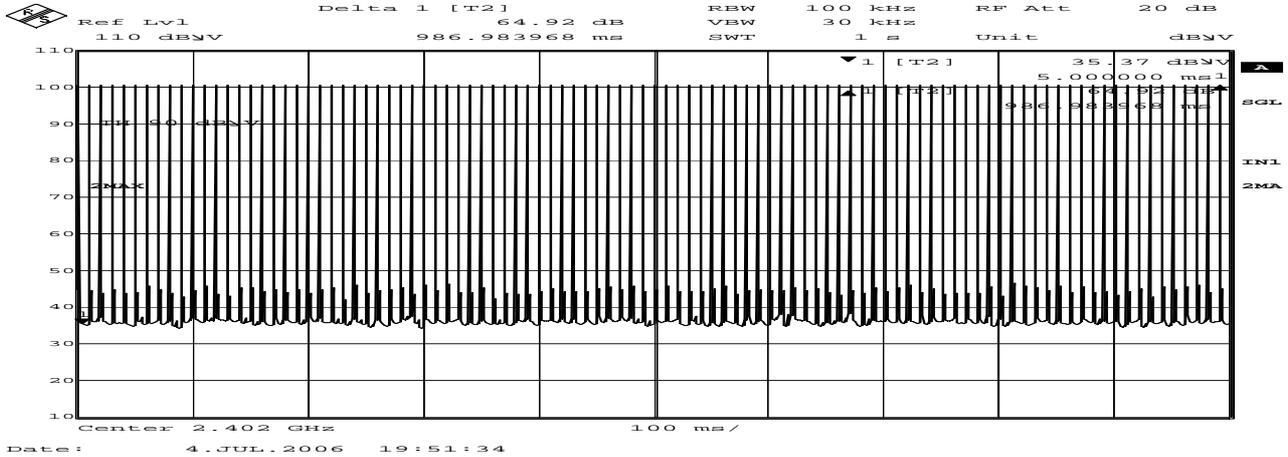
Average times of rising in 30 sec. of sweep = (60 + 60 + 60 + 61 + 60) / 5 = 60.2  
 Average times of rising in 1 sec. = 60.2 / 30s = 2.01  
 Average times of rising in 0.4x = 0.4 \* 79ch \* 2.01 = 63.52  
 Dwell time = 63.52 \* 2.92 = 185.49 [ms]  
 Limit : Dwell Time < 0.4[s]

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

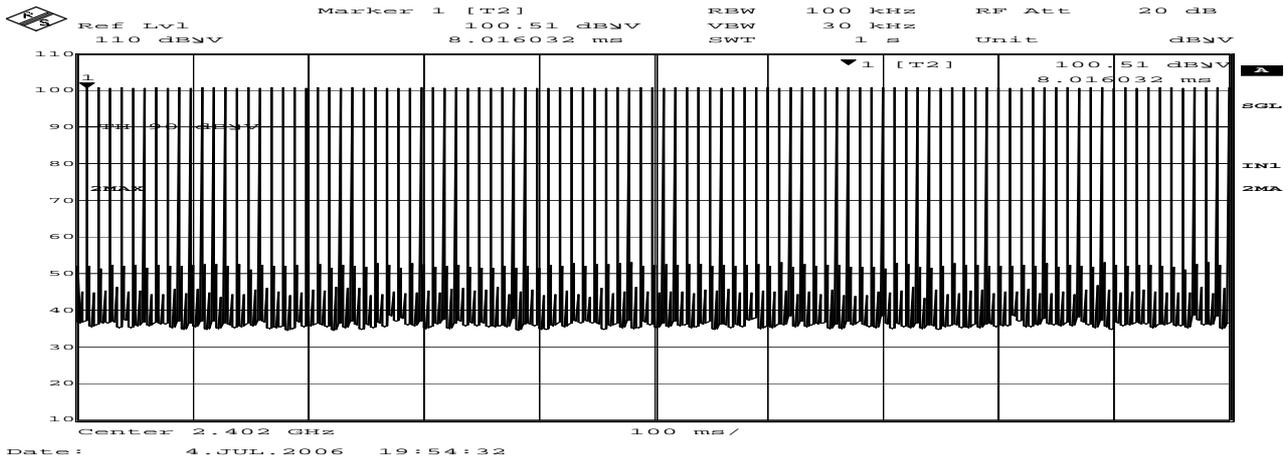
**COMPANY** : Sony EMCS Corporation Saitama TEC  
**EQUIPMENT** : Wireless Stereo Headset  
**MODEL NUMBER**: DR-BT10CX  
**SERIAL NUMBER**: #3A  
**FCC ID** : AK8DRBT10CX  
**POWER** : DC3.7V

**UL Apex Co.,Ltd. Yamakita No.2 Shielded Room**  
**REPORT NO** : 26IE0239-YK-A  
**REGULATION** : Fcc Part15SubpartC 247(a)(1)(iii)  
**DATE** : 2006/07/04  
**TEMP./HUMI** : 22deg.C./68%  
**TEST MODE** : Transmitting  
**ENGINEER** : Makoto Hosaka

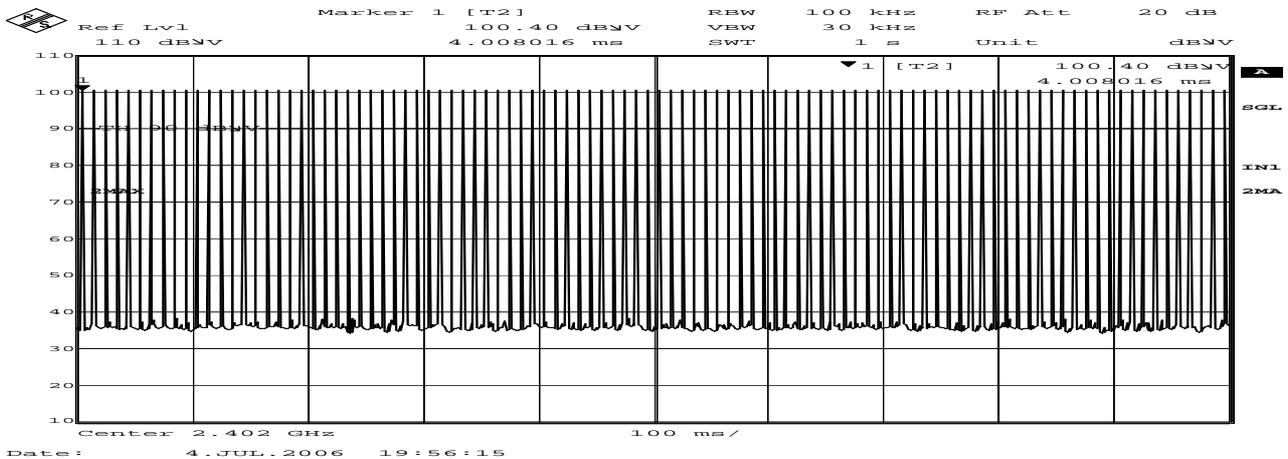
**Inquiry:**  
**Count 1**



**Count 2**



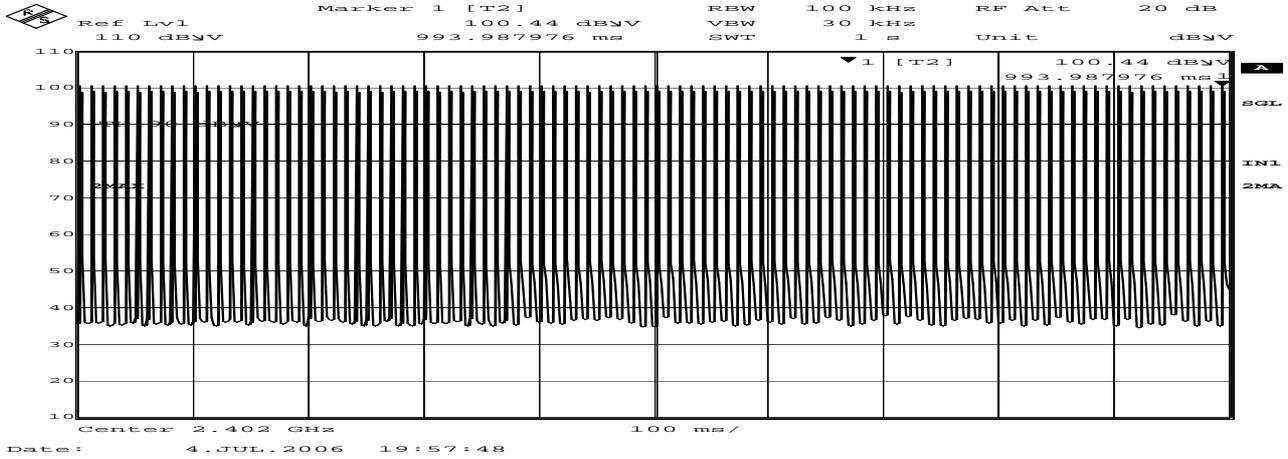
**Count 3**



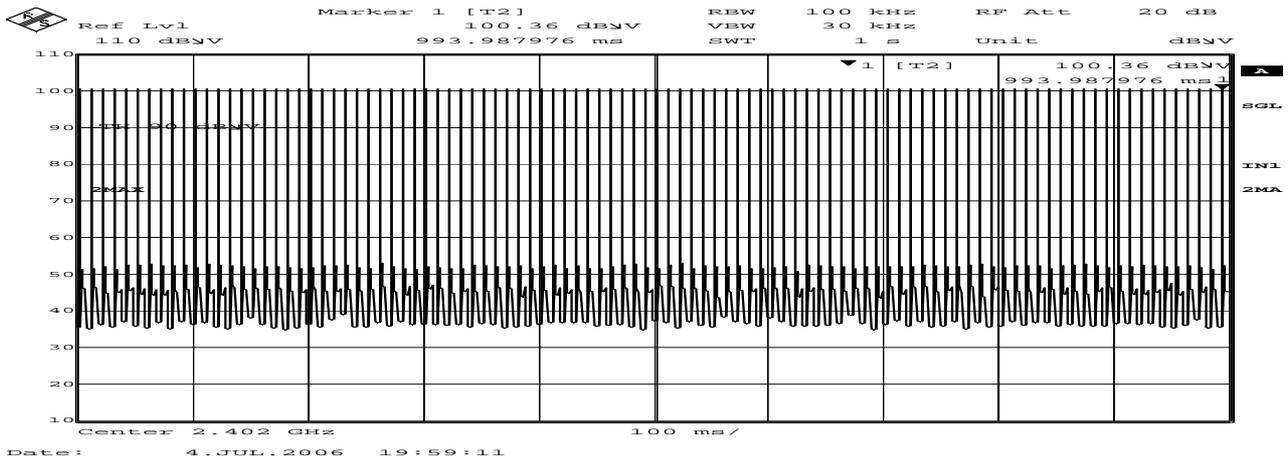
**Dwell Time: FCC 15.247(a)(1)(iii)**

|                      |                                     |   |
|----------------------|-------------------------------------|---|
| <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>                                    |
| <b>MODEL NUMBER</b>  | : DR-BT10CX                         | : 26IE0239-YK-A                                     |
| <b>SERIAL NUMBER</b> | : #3A                               | <b>REGULATION</b>                                   |
| <b>FCC ID</b>        | : AK8DRBT10CX                       | : Fcc Part15SubpartC 247(a)(1)(iii)                 |
| <b>POWER</b>         | : DC3.7V                            | <b>DATE</b>   |
|                      |                                     | : 2006/07/04  |
|                      |                                     | <b>TEMP./HUMI</b>                                   |
|                      |                                     | : 22deg.C./68%                                      |
|                      |                                     | <b>TEST MODE</b>                                    |
|                      |                                     | : Transmitting                                      |
|                      |                                     | <b>ENGINEER</b>                                     |
|                      |                                     | : Makoto Hosaka                                     |

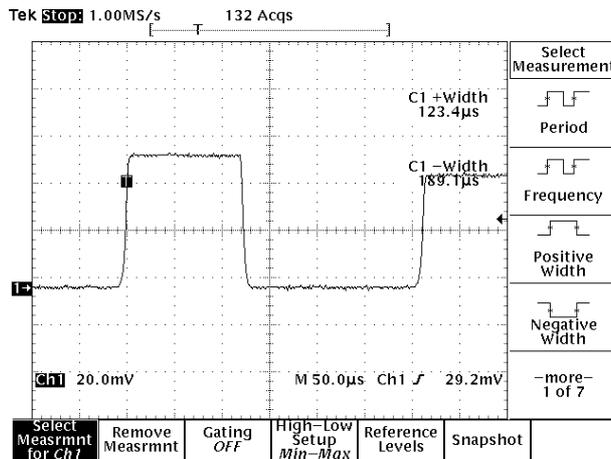
**Count 4**



**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-BT10CX  
SERIAL NUMBER: #3A  
FCC ID : AK8DRBT10CX  
POWER : DC3.7V  
TEST MODE : Transmitting

REPORT NO : 26IE0239-YK-A  
REGULATION : Fcc Part15SubpartC 247(b)(1)  
DATE : 2006/07/04  
TEMP./HUMI : 22deg.C/68%  
TEST MODE : Transmitting  
ENGINEER : Makoto Hosaka

| CH      | FREQ<br>[GHz] | P/M<br>Reading<br>[dBm] | Cable Loss<br>[dB] | Results<br>[dBm] | Limit<br>(125mW)<br>[dBm] | MARGIN<br>[dB] |
|---------|---------------|-------------------------|--------------------|------------------|---------------------------|----------------|
| Low     | 2402.00       | -6.64                   | 0.30               | -6.34            | 20.96                     | 27.30          |
| Mid     | 2441.00       | -7.44                   | 0.30               | -7.14            | 20.96                     | 28.10          |
| High    | 2480.00       | -8.73                   | 0.30               | -8.43            | 20.96                     | 29.39          |
| Hopping | -             | -7.05                   | 0.30               | -6.75            | 20.96                     | 27.71          |
| Inquiry | -             | -7.06                   | 0.30               | -6.76            | 20.96                     | 27.72          |

Limit: 125mW=20.96dBm

P/M: Power Meter

CABLE LOSS:KCC-D16

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

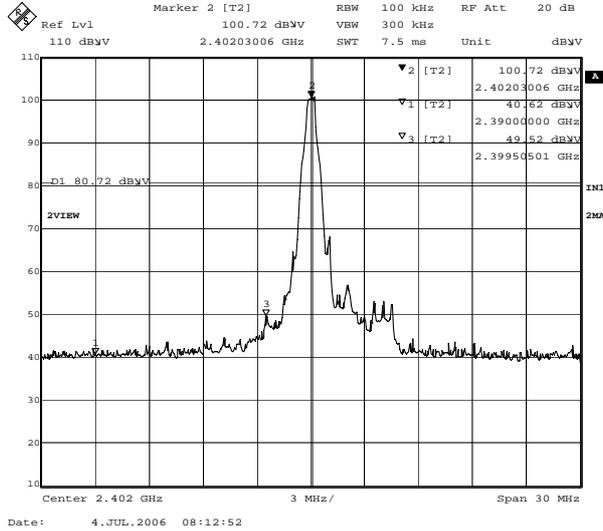
UL Apex Co.,Ltd. Yamakita No.2 Shielded Room

COMPANY : Sony EMCS Corporation Saitama TEC  
 EQUIPMENT : Wireless Stereo Headset  
 MODEL NUMBER: DR-BT10CX  
 SERIAL NUMBER: #3A  
 FCC ID : AK8DRBT10CX  
 POWER : DC3.7V

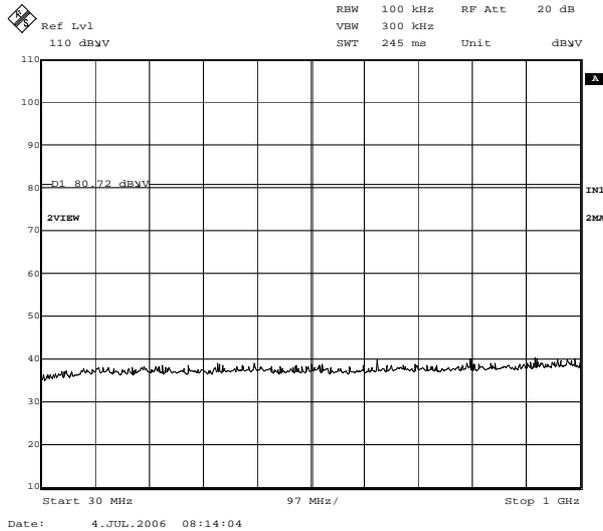
REPORT NO : 26IE0239-YK-A  
 REGULATION : Fcc Part15SubpartC 247(d)  
 DATE : 2006/07/04  
 TEMP./HUMI : 22deg.C./68%  
 TEST MODE : Transmitting (Hopping off)  
 ENGINEER : Makoto Hosaka

[Transmitting]  
 Ch:2402MHz

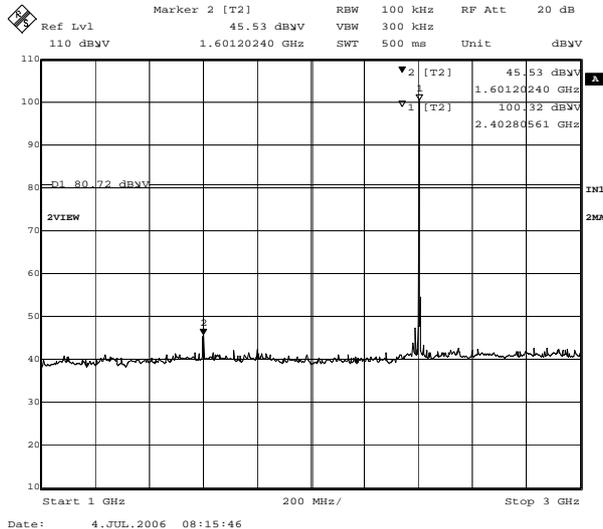
1.



2.



3.



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

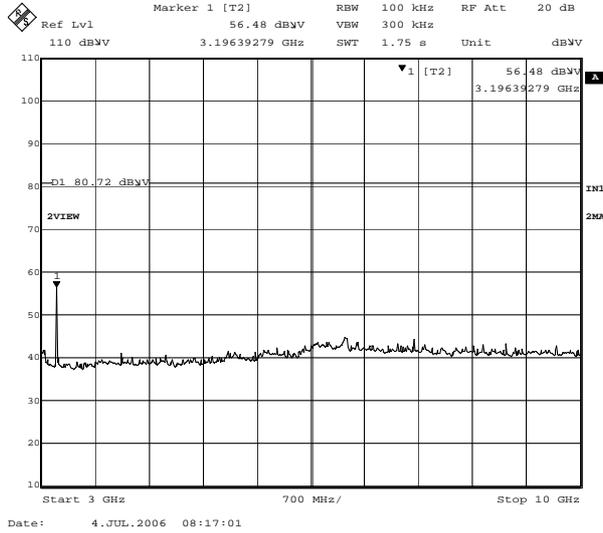
UL Apex Co.,Ltd. Yamakita No.2 Shielded Room

COMPANY : Sony EMCS Corporation Saitama TEC  
 EQUIPMENT : Wireless Stereo Headset  
 MODEL NUMBER: DR-BT10CX  
 SERIAL NUMBER: #3A  
 FCC ID : AK8DRBT10CX  
 POWER : DC3.7V

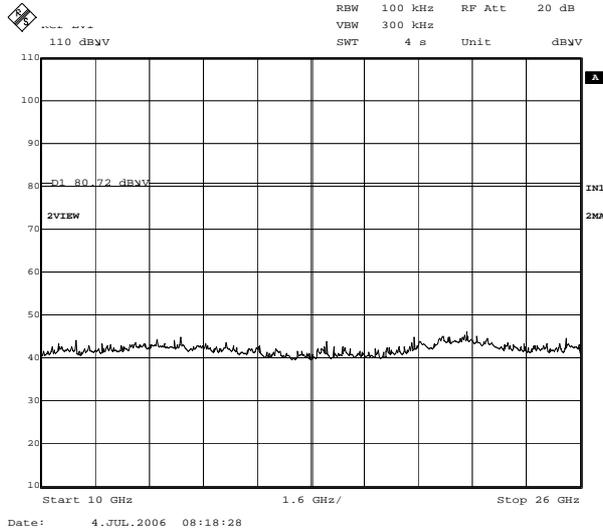
REPORT NO : 26IE0239-YK-A  
 REGULATION : Fcc Part15SubpartC 247(d)  
 DATE : 2006/07/04  
 TEMP./HUMI : 22deg.C./68%  
 TEST MODE : Transmitting (Hopping off)  
 ENGINEER : Makoto Hosaka

[Transmitting]  
 Ch:2402MHz

4.



5.



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

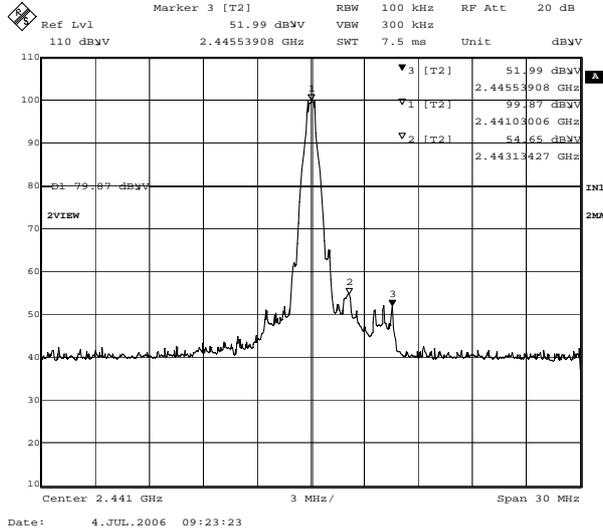
UL Apex Co.,Ltd. Yamakita No.2 Shielded Room

COMPANY : Sony EMCS Corporation Saitama TEC  
 EQUIPMENT : Wireless Stereo Headset  
 MODEL NUMBER: DR-BT10CX  
 SERIAL NUMBER: #3A  
 FCC ID : AK8DRBT10CX  
 POWER : DC3.7V

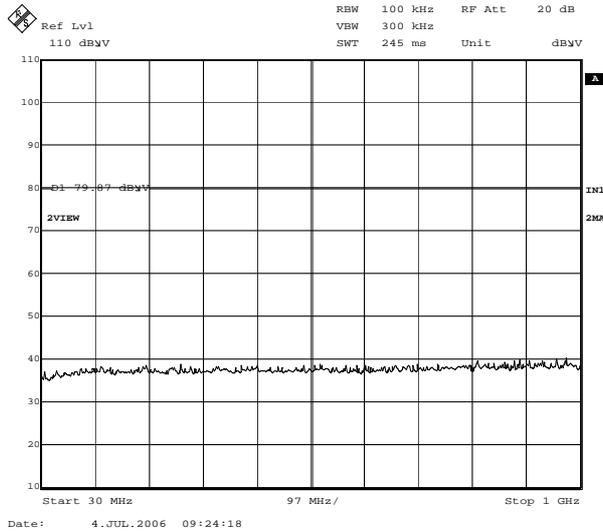
REPORT NO : 26IE0239-YK-A  
 REGULATION : Fcc Part15SubpartC 247(d)  
 DATE : 2006/07/04  
 TEMP./HUMI : 22deg.C./68%  
 TEST MODE : Transmitting (Hopping off)  
 ENGINEER : Makoto Hosaka

[Transmitting]  
 Ch:2441MHz

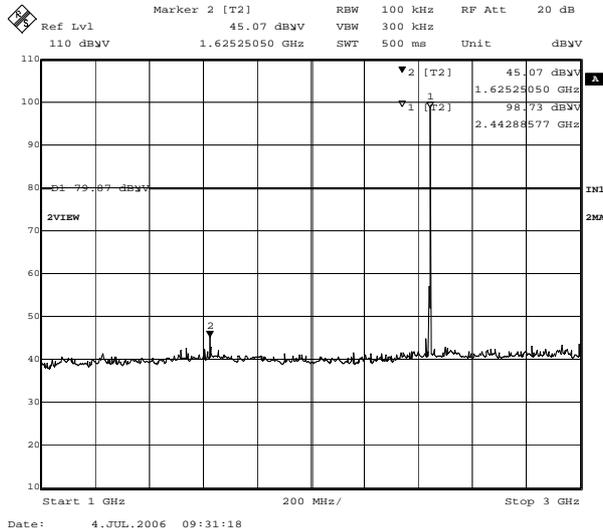
1.



2.



3.



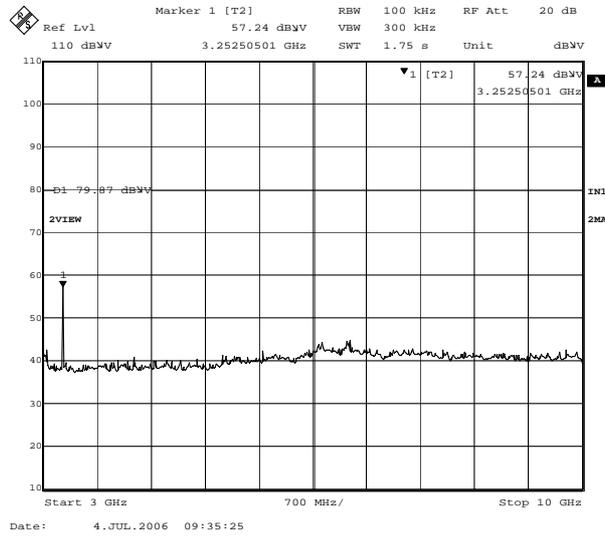
## Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

**COMPANY** : Sony EMCS Corporation Saitama TEC  
**EQUIPMENT** : Wireless Stereo Headset  
**MODEL NUMBER**: DR-BT10CX  
**SERIAL NUMBER**: #3A  
**FCC ID** : AK8DRBT10CX  
**POWER** : DC3.7V

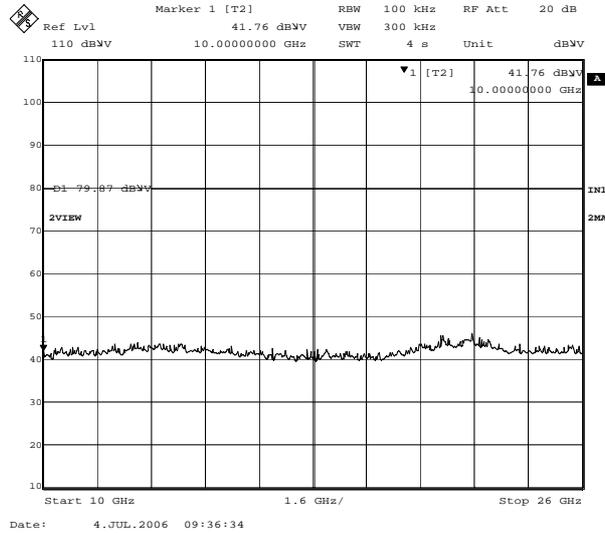
**UL Apex Co.,Ltd. Yamakita No.2 Shielded Room**  
**REPORT NO** : 26IE0239-YK-A  
**REGULATION** : Fcc Part15SubpartC 247(d)  
**DATE** : 2006/07/04  
**TEMP./HUMI** : 22deg.C./68%  
**TEST MODE** : Transmitting (Hopping off)  
**ENGINEER** : Makoto Hosaka

**[Transmitting]**  
**Ch:2441MHz**

4.



5.



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

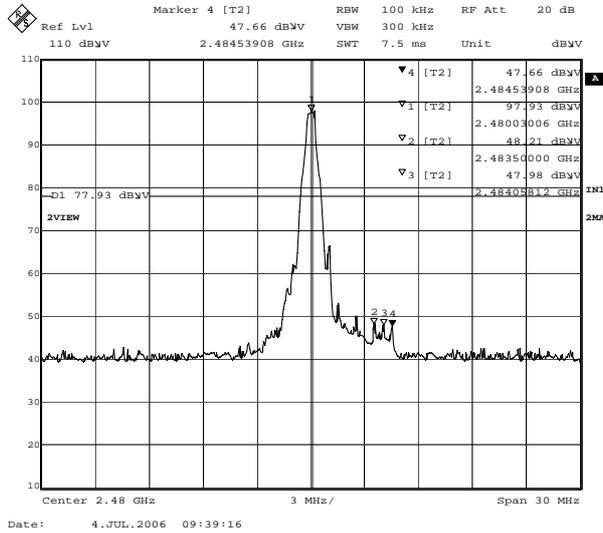
UL Apex Co.,Ltd. Yamakita No.2 Shielded Room

COMPANY : Sony EMCS Corporation Saitama TEC  
 EQUIPMENT : Wireless Stereo Headset  
 MODEL NUMBER: DR-BT10CX  
 SERIAL NUMBER: #3A  
 FCC ID : AK8DRBT10CX  
 POWER : DC3.7V

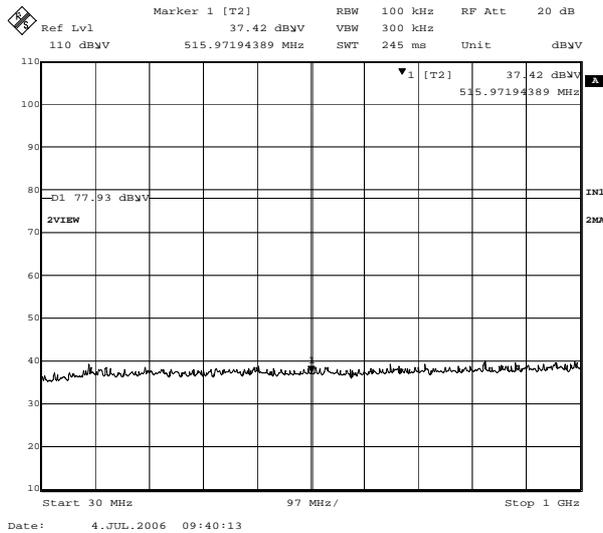
REPORT NO : 26IE0239-YK-A  
 REGULATION : Fcc Part15SubpartC 247(d)  
 DATE : 2006/07/04  
 TEMP./HUMI : 22deg.C./68%  
 TEST MODE : Transmitting (Hopping off)  
 ENGINEER : Makoto Hosaka

[Transmitting]  
 Ch11:2480MHz

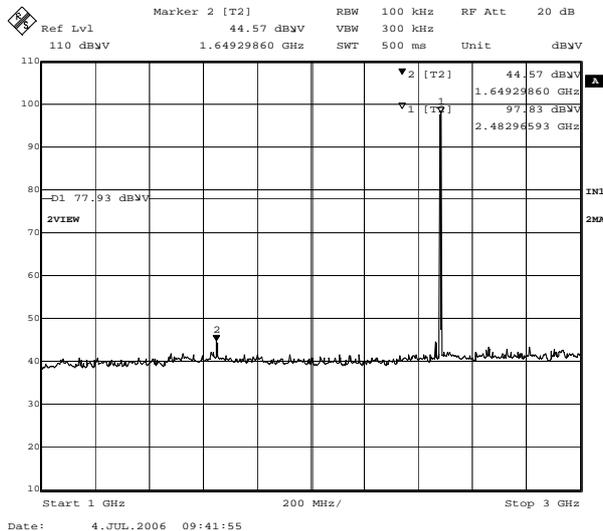
1.



2.



3.

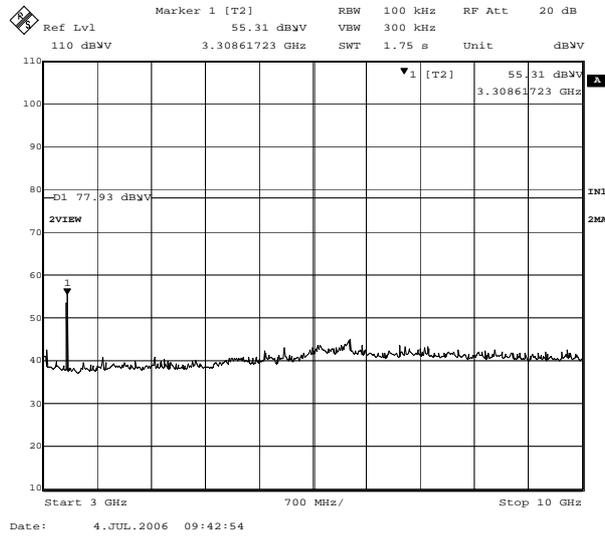


## Out of Band Emission(Antenna Terminal Conducted): FCC 15.247(d)

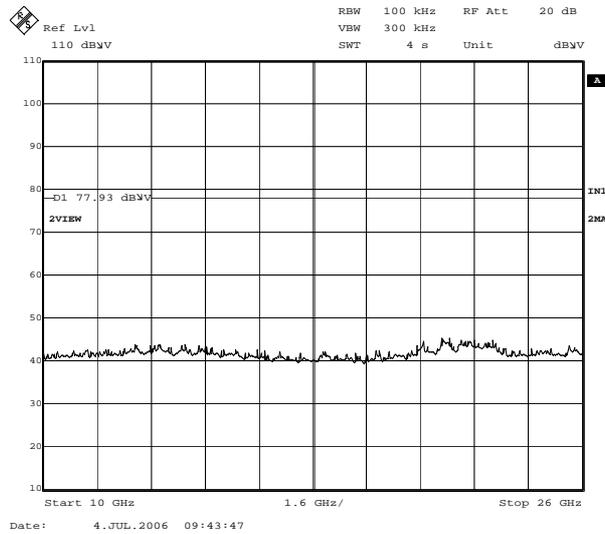
|  |   |
|--|---|
| <p><b>COMPANY</b> : Sony EMCS Corporation Saitama TEC</p> <p><b>EQUIPMENT</b> : Wireless Stereo Headset</p> <p><b>MODEL NUMBER</b>: DR-BT10CX</p> <p><b>SERIAL NUMBER</b>: #3A</p> <p><b>FCC ID</b> : AK8DRBT10CX</p> <p><b>POWER</b> : DC3.7V</p> | <p style="text-align: center;"><b>UL Apex Co.,Ltd. Yamakita No.2 Shielded Room</b></p> <p><b>REPORT NO</b> : 26IE0239-YK-A</p> <p><b>REGULATION</b> : Fcc Part15SubpartC 247(d)</p> <p><b>DATE</b> : 2006/07/04</p> <p><b>TEMP./HUMI</b> : 22deg.C./68%</p> <p><b>TEST MODE</b> : Transmitting (Hopping off)</p> <p><b>ENGINEER</b> : Makoto Hosaka</p> |
|--|---|

**[Transmitting]**  
**Ch:2480MHz**

4.



5.



# DATA OF RADIATION TEST

UL Apex Co.,Ltd.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 261E0239-YK- A

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Wireless Stereo Headset  
 Model No. : DR-BT10CX  
 Serial No. : #4A  
 Power : DC3.7V  
 Mode : Transmitting (2402MHz)  
 Remarks : 30-1000MHz  
 Date : 7/7/2006  
 Test Distance : 3 m  
 Temperature : 21 °C  
 Humidity : 48 %  
 Regulation : FCC Part15C § 15.209

Engineer : Go Ishiwata

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING        |      | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT           |      | LIMITS<br>[dB μV/m] | MARGIN      |      |
|-----|----------------|-------------|----------------|------|-------------------------|---------------------|-----------------------|----------------|------------------|------|---------------------|-------------|------|
|     |                |             | HOR<br>[dB μV] | VER  |                         |                     |                       |                | HOR<br>[dB μV/m] | VER  |                     | HOR<br>[dB] | VER  |
| 1.  | 96.02          | BB          | 28.0           | 26.2 | 10.2                    | 28.6                | 2.0                   | 6.1            | 17.7             | 15.9 | 43.5                | 25.8        | 27.6 |

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

■ ANTENNA: KBA-03 (BBA9106) 30-299MHz/KLA-03 (USLP9143) 300-1000MHz  
 ■ AMP: KAF-05 (8447D) ■ CABLE: KCC-30/31/32/34 ■ RECEIVER: KTR-01 (ES140)

# DATA OF RADIATION TEST

UL Apex Co.,Ltd.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 261E0239-YK-A

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Wireless Stereo Headset  
 Model No. : DR-BT10CX  
 Serial No. : #4A  
 Power : DC3. 7V  
 Mode : Transmitting (2441MHz)  
 Remarks : 30-1000MHz  
 Date : 7/7/2006  
 Test Distance : 3 m  
 Temperature : 21 °C  
 Humidity : 48 %  
 Regulation : FCC Part15C § 15. 209

Engineer : Go Ishiwata

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING        |      | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT           |      | LIMITS<br>[dB μV/m] | MARGIN      |      |
|-----|----------------|-------------|----------------|------|-------------------------|---------------------|-----------------------|----------------|------------------|------|---------------------|-------------|------|
|     |                |             | HOR<br>[dB μV] | VER  |                         |                     |                       |                | HOR<br>[dB μV/m] | VER  |                     | HOR<br>[dB] | VER  |
| 1.  | 96.12          | BB          | 28.3           | 26.5 | 10.3                    | 28.6                | 2.0                   | 6.1            | 18.1             | 16.3 | 43.5                | 25.4        | 27.2 |

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

■ ANTENNA: KBA-03 (BBA9106) 30-299MHz/KLA-03 (USLP9143) 300-1000MHz  
 ■ AMP: KAF-05 (8447D) ■ CABLE: KCC-30/31/32/34 ■ RECEIVER: KTR-01 (ES140)

# DATA OF RADIATION TEST

UL Apex Co.,Ltd.  
YAMAKITA No.1 ANECHOIC CHAMBER  
Report No. : 261E0239-YK - A

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Wireless Stereo Headset  
 Model No. : DR-BT10CX  
 Serial No. : #4A  
 Power : DC3. 7V  
 Mode : Transmitting (2480MHz)  
 Remarks : 30-1000MHz  
 Date : 7/7/2006  
 Test Distance : 3 m  
 Temperature : 21 °C  
 Humidity : 48 %  
 Regulation : FCC Part15C § 15. 209

Engineer : Go Ishiwata

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING             |      | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT                |      | LIMITS<br>[dB $\mu$ V/m] | MARGIN      |      |
|-----|----------------|-------------|---------------------|------|-------------------------|---------------------|-----------------------|----------------|-----------------------|------|--------------------------|-------------|------|
|     |                |             | HOR<br>[dB $\mu$ V] | VER  |                         |                     |                       |                | HOR<br>[dB $\mu$ V/m] | VER  |                          | HOR<br>[dB] | VER  |
| 1.  | 96.10          | BB          | 28.7                | 26.4 | 10.3                    | 28.6                | 2.0                   | 6.1            | 18.5                  | 16.2 | 43.5                     | 25.0        | 27.3 |

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

■ ANTENNA: KBA-03 (BBA9106) 30-299MHz/KLA-03 (USLP9143) 300-1000MHz  
 ■ AMP: KAF-05 (8447D) ■ CABLE: KCC-30/31/32/34 ■ RECEIVER: KTR-01 (ES140)

# DATA OF RADIATION TEST

UL Apex Co.,Ltd.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 261E0239-YK-A

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Wireless Stereo Headset  
 Model No. : DR-BT10CX  
 Serial No. : #4A  
 Power : DC3.7V  
 Mode : Transmitting (2402MHz)  
 Remarks : 1-26GHz PK (RBW:1MHz, VBW:1MHz)  
 Date : 7/7/2006  
 Test Distance : 3 m  
 Temperature : 21 °C  
 Humidity : 48 %  
 Regulation : FCC Part15C §15.209 (PK Detection)

Engineer : Go Ishiwata

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING        |      | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT           |      | LIMITS<br>[dB μV/m] | MARGIN      |      |
|-----|----------------|-------------|----------------|------|-------------------------|---------------------|-----------------------|----------------|------------------|------|---------------------|-------------|------|
|     |                |             | HOR<br>[dB μV] | VER  |                         |                     |                       |                | HOR<br>[dB μV/m] | VER  |                     | HOR<br>[dB] | VER  |
| 1.  | 2390.00        | BB          | 44.1           | 44.2 | 28.7                    | 36.8                | 4.0                   | 9.9            | 49.9             | 50.0 | 74.0                | 24.1        | 24.0 |
| 2.  | 4804.00        | BB          | 43.4           | 43.5 | 32.9                    | 37.1                | 5.8                   | 0.5            | 45.5             | 45.6 | 74.0                | 28.5        | 28.4 |
| 3.  | 7206.00        | BB          | 41.3           | 42.3 | 36.4                    | 36.9                | 6.6                   | 0.5            | 47.9             | 48.9 | 74.0                | 26.1        | 25.1 |
| 4.  | 9608.00        | BB          | 42.9           | 42.5 | 38.4                    | 37.0                | 7.6                   | 1.0            | 52.9             | 52.5 | 74.0                | 21.1        | 21.5 |
| 5.  | 12010.00       | BB          | 42.1           | 41.6 | 40.6                    | 36.2                | 9.0                   | 0.4            | 55.9             | 55.4 | 74.0                | 18.1        | 18.6 |
| 6.  | 14412.00       | BB          | 41.3           | 41.5 | 43.0                    | 33.7                | 9.1                   | 0.7            | 60.4             | 60.6 | 74.0                | 13.6        | 13.4 |
| 7.  | 16814.00       | BB          | 42.9           | 42.2 | 42.1                    | 34.4                | 9.6                   | 0.3            | 60.5             | 59.8 | 74.0                | 13.5        | 14.2 |
| 8.  | 19216.00       | BB          | 43.7           | 43.5 | 40.9                    | 33.5                | 10.1                  | 0.0            | 61.2             | 61.0 | 74.0                | 12.8        | 13.0 |
| 9.  | 21618.00       | BB          | 44.5           | 44.4 | 40.6                    | 33.2                | 10.8                  | 0.0            | 62.7             | 62.6 | 74.0                | 11.3        | 11.4 |
| 10. | 24020.00       | BB          | 43.7           | 43.7 | 40.5                    | 33.3                | 11.5                  | 0.0            | 62.4             | 62.4 | 74.0                | 11.6        | 11.6 |

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

■ ANTENNA: KHA-01 (SAS-200 571) 1-18GHz/KHA-03 (3160-09) 18-26GHz  
 ■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-02 (8449B) ■ SPECTRUMANALYZER: KSA-04 (R3271A)

# DATA OF RADIATION TEST

UL Apex Co.,Ltd.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 261E0239-YK <sup>∞</sup> A

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Wireless Stereo Headset  
 Model No. : DR-BT10CX  
 Serial No. : #4A  
 Power : DC3.7V  
 Mode : Transmitting (2402MHz)  
 Remarks : 1-26GHz AV (RBW:1MHz, VBW:10Hz)  
 Date : 7/7/2006  
 Test Distance : 3 m  
 Temperature : 21 °C  
 Humidity : 48 %  
 Regulation : FCC Part15C § 15.209 (AV Detection)

Engineer : Go Ishiwata

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING        |      | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT           |      | LIMITS<br>[dB μV/m] | MARGIN      |      |
|-----|----------------|-------------|----------------|------|-------------------------|---------------------|-----------------------|----------------|------------------|------|---------------------|-------------|------|
|     |                |             | HOR<br>[dB μV] | VER  |                         |                     |                       |                | HOR<br>[dB μV/m] | VER  |                     | HOR<br>[dB] | VER  |
| 1.  | 2390.00        | BB          | 33.5           | 33.7 | 28.7                    | 36.8                | 4.0                   | 9.9            | 39.3             | 39.5 | 54.0                | 14.7        | 14.5 |
| 2.  | 4804.00        | BB          | 32.9           | 33.1 | 32.9                    | 37.1                | 5.8                   | 0.5            | 35.0             | 35.2 | 54.0                | 19.0        | 18.8 |
| 3.  | 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 |
| 4.  | 9608.00        | BB          | 32.3           | 32.0 | 38.4                    | 37.0                | 7.6                   | 1.0            | 42.3             | 42.0 | 54.0                | 11.7        | 12.0 |
| 5.  | 12010.00       | BB          | 31.8           | 32.0 | 40.6                    | 36.2                | 9.0                   | 0.4            | 45.6             | 45.8 | 54.0                | 8.4         | 8.2  |
| 6.  | 14412.00       | BB          | 31.7           | 31.7 | 43.0                    | 33.7                | 9.1                   | 0.7            | 50.8             | 50.8 | 54.0                | 3.2         | 3.2  |
| 7.  | 16814.00       | BB          | 33.1           | 32.8 | 42.1                    | 34.4                | 9.6                   | 0.3            | 50.7             | 50.4 | 54.0                | 3.3         | 3.6  |
| 8.  | 19216.00       | BB          | 33.3           | 33.1 | 40.9                    | 33.5                | 10.1                  | 0.0            | 50.8             | 50.6 | 54.0                | 3.2         | 3.4  |
| 9.  | 21618.00       | BB          | 34.2           | 34.1 | 40.6                    | 33.2                | 10.8                  | 0.0            | 52.4             | 52.3 | 54.0                | 1.6         | 1.7  |
| 10. | 24020.00       | BB          | 34.0           | 34.3 | 40.5                    | 33.3                | 11.5                  | 0.0            | 52.7             | 53.0 | 54.0                | 1.3         | 1.0  |

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) ■ SPECTRUMANALYZER: KSA-04 (R3271A)

# DATA OF RADIATION TEST

UL Apex Co.,Ltd.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 261E0239-YK-A

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Wireless Stereo Headset  
 Model No. : DR-BT10CX  
 Serial No. : #4A  
 Power : DC3.7V  
 Mode : Transmitting (2441MHz)  
 Remarks : 1-26GHz PK (RBW:1MHz, VBW:1MHz)  
 Date : 7/7/2006  
 Test Distance : 3 m  
 Temperature : 21 °C Engineer : Go Ishiwata  
 Humidity : 48 %  
 Regulation : FCC Part15C § 15.209 (PK Detection)

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING        |      | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT           |      | LIMITS<br>[dB μV/m] | MARGIN      |      |
|-----|----------------|-------------|----------------|------|-------------------------|---------------------|-----------------------|----------------|------------------|------|---------------------|-------------|------|
|     |                |             | HOR<br>[dB μV] | VER  |                         |                     |                       |                | HOR<br>[dB μV/m] | VER  |                     | HOR<br>[dB] | VER  |
| 1.  | 4882.00        | BB          | 42.9           | 43.4 | 33.1                    | 37.2                | 5.8                   | 0.5            | 45.1             | 45.6 | 74.0                | 28.9        | 28.4 |
| 2.  | 7323.00        | BB          | 41.6           | 42.0 | 36.6                    | 37.0                | 6.7                   | 0.5            | 48.4             | 48.8 | 74.0                | 25.6        | 25.2 |
| 3.  | 9764.00        | BB          | 42.5           | 42.3 | 38.5                    | 37.0                | 7.6                   | 0.9            | 52.5             | 52.3 | 74.0                | 21.5        | 21.7 |
| 4.  | 12205.00       | BB          | 42.2           | 42.0 | 40.5                    | 35.8                | 8.8                   | 0.5            | 56.2             | 56.0 | 74.0                | 17.8        | 18.0 |
| 5.  | 14646.00       | BB          | 40.9           | 41.2 | 43.0                    | 34.1                | 9.3                   | 0.7            | 59.8             | 60.1 | 74.0                | 14.2        | 13.9 |
| 6.  | 17087.00       | BB          | 42.6           | 42.4 | 43.2                    | 34.0                | 9.7                   | 0.4            | 61.9             | 61.7 | 74.0                | 12.1        | 12.3 |
| 7.  | 19528.00       | BB          | 44.1           | 43.9 | 40.9                    | 34.4                | 10.2                  | 0.0            | 60.8             | 60.6 | 74.0                | 13.2        | 13.4 |
| 8.  | 21969.00       | BB          | 44.3           | 44.3 | 40.8                    | 33.7                | 11.0                  | 0.0            | 62.4             | 62.4 | 74.0                | 11.6        | 11.6 |
| 9.  | 24410.00       | BB          | 43.4           | 43.5 | 40.7                    | 33.0                | 11.5                  | 0.0            | 62.6             | 62.7 | 74.0                | 11.4        | 11.3 |

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: KSA-04 (R3271A)

# DATA OF RADIATION TEST

UL Apex Co.,Ltd.  
YAMAKITA No.1 ANECHOIC CHAMBER  
Report No. : 261E0239-YK - A

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Wireless Stereo Headset  
 Model No. : DR-BT10CX  
 Serial No. : #4A  
 Power : DC3.7V  
 Mode : Transmitting (2441MHz)  
 Remarks : 1-26GHz AV (RBW:1MHz, VBW:10Hz)  
 Date : 7/7/2006  
 Test Distance : 3 m  
 Temperature : 21 °C Engineer : Go Ishiwata  
 Humidity : 48 %  
 Regulation : FCC Part15C § 15.209 (AV Detection)

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING        |      | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT           |      | LIMITS<br>[dB μV/m] | MARGIN      |      |
|-----|----------------|-------------|----------------|------|-------------------------|---------------------|-----------------------|----------------|------------------|------|---------------------|-------------|------|
|     |                |             | HOR<br>[dB μV] | VER  |                         |                     |                       |                | HOR<br>[dB μV/m] | VER  |                     | HOR<br>[dB] | VER  |
| 1.  | 4882.00        | BB          | 31.8           | 32.0 | 33.1                    | 37.2                | 5.8                   | 0.5            | 34.0             | 34.2 | 54.0                | 20.0        | 19.8 |
| 2.  | 7323.00        | BB          | 31.9           | 31.4 | 36.6                    | 37.0                | 6.7                   | 0.5            | 38.7             | 38.2 | 54.0                | 15.3        | 15.8 |
| 3.  | 9764.00        | BB          | 32.4           | 32.2 | 38.5                    | 37.0                | 7.6                   | 0.9            | 42.4             | 42.2 | 54.0                | 11.6        | 11.8 |
| 4.  | 12205.00       | BB          | 32.0           | 32.1 | 40.5                    | 35.8                | 8.8                   | 0.5            | 46.0             | 46.1 | 54.0                | 8.0         | 7.9  |
| 5.  | 14646.00       | BB          | 31.9           | 31.6 | 43.0                    | 34.1                | 9.3                   | 0.7            | 50.8             | 50.5 | 54.0                | 3.2         | 3.5  |
| 6.  | 17087.00       | BB          | 33.2           | 33.0 | 43.2                    | 34.0                | 9.7                   | 0.4            | 52.5             | 52.3 | 54.0                | 1.5         | 1.7  |
| 7.  | 19528.00       | BB          | 33.3           | 33.0 | 40.9                    | 34.4                | 10.2                  | 0.0            | 50.0             | 49.7 | 54.0                | 4.0         | 4.3  |
| 8.  | 21969.00       | BB          | 34.3           | 34.2 | 40.8                    | 33.7                | 11.0                  | 0.0            | 52.4             | 52.3 | 54.0                | 1.6         | 1.7  |
| 9.  | 24410.00       | BB          | 33.9           | 34.0 | 40.7                    | 33.0                | 11.5                  | 0.0            | 53.1             | 53.2 | 54.0                | 0.9         | 0.8  |

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: KSA-04 (R3271A)

# DATA OF RADIATION TEST

UL Apex Co.,Ltd.  
YAMAKITA No.1 ANECHOIC CHAMBER  
Report No. : 261E0239-YK- A

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Wireless Stereo Headset  
 Model No. : DR-BT10CX  
 Serial No. : #4A  
 Power : DC3.7V  
 Mode : Transmitting (2480MHz)  
 Remarks : 1-26GHz PK (RBW:1MHz, VBW:1MHz)  
 Date : 7/7/2006  
 Test Distance : 3 m  
 Temperature : 21 °C Engineer : Go Ishiwata  
 Humidity : 48 %  
 Regulation : FCC Part15C §15.209 (PK Detection)

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING        |      | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT           |      | LIMITS<br>[dB μV/m] | MARGIN      |      |
|-----|----------------|-------------|----------------|------|-------------------------|---------------------|-----------------------|----------------|------------------|------|---------------------|-------------|------|
|     |                |             | HOR<br>[dB μV] | VER  |                         |                     |                       |                | HOR<br>[dB μV/m] | VER  |                     | HOR<br>[dB] | VER  |
| 1.  | 2483.50        | BB          | 45.1           | 45.1 | 28.8                    | 36.8                | 4.0                   | 9.9            | 51.0             | 51.0 | 74.0                | 23.0        | 23.0 |
| 2.  | 4960.00        | BB          | 43.4           | 42.3 | 33.3                    | 37.3                | 5.8                   | 0.4            | 45.6             | 44.5 | 74.0                | 28.4        | 29.5 |
| 3.  | 7440.00        | BB          | 41.9           | 42.2 | 36.9                    | 37.0                | 6.7                   | 0.5            | 49.0             | 49.3 | 74.0                | 25.0        | 24.7 |
| 4.  | 9920.00        | BB          | 43.1           | 42.6 | 38.6                    | 36.9                | 7.6                   | 0.8            | 53.2             | 52.7 | 74.0                | 20.8        | 21.3 |
| 5.  | 12400.00       | BB          | 41.8           | 42.1 | 40.4                    | 35.4                | 8.6                   | 0.6            | 56.0             | 56.3 | 74.0                | 18.0        | 17.7 |
| 6.  | 14880.00       | BB          | 41.2           | 41.3 | 42.3                    | 34.8                | 9.5                   | 0.6            | 58.8             | 58.9 | 74.0                | 15.2        | 15.1 |
| 7.  | 17360.00       | BB          | 42.3           | 42.1 | 44.5                    | 34.2                | 9.7                   | 0.2            | 62.5             | 62.3 | 74.0                | 11.5        | 11.7 |
| 8.  | 19840.00       | BB          | 43.9           | 44.1 | 40.9                    | 33.9                | 10.3                  | 0.0            | 61.2             | 61.4 | 74.0                | 12.8        | 12.6 |
| 9.  | 22320.00       | BB          | 44.2           | 44.1 | 40.9                    | 33.1                | 11.0                  | 0.0            | 63.0             | 62.9 | 74.0                | 11.0        | 11.1 |
| 10. | 24800.00       | BB          | 43.5           | 43.9 | 40.9                    | 33.5                | 11.7                  | 0.0            | 62.6             | 63.0 | 74.0                | 11.4        | 11.0 |

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) ■ SPECTRUMANALYZER:KSA-04 (R3271A)

# DATA OF RADIATION TEST

UL Apex Co.,Ltd.

YAMAKITA No.1 ANECHOIC CHAMBER

Report No. : 261E0239-YK - A

Applicant : Sony EMCS Corporation Saitama TEC  
 Kind of Equipment : Wireless Stereo Headset  
 Model No. : DR-BT10CX  
 Serial No. : #4A  
 Power : DC3.7V  
 Mode : Transmitting (2480MHz)  
 Remarks : 1-26GHz AV (RBW:1MHz, VBW:10Hz)  
 Date : 7/7/2006  
 Test Distance : 3 m  
 Temperature : 21 °C Engineer : Go Ishiwata  
 Humidity : 48 %  
 Regulation : FCC Part15C § 15.209 (AV Detection)

| No. | FREQ.<br>[MHz] | ANT<br>TYPE | READING        |      | ANT<br>FACTOR<br>[dB/m] | AMP<br>GAIN<br>[dB] | CABLE<br>LOSS<br>[dB] | ATTEN.<br>[dB] | RESULT           |      | LIMITS<br>[dB μV/m] | MARGIN      |      |
|-----|----------------|-------------|----------------|------|-------------------------|---------------------|-----------------------|----------------|------------------|------|---------------------|-------------|------|
|     |                |             | HOR<br>[dB μV] | VER  |                         |                     |                       |                | HOR<br>[dB μV/m] | VER  |                     | HOR<br>[dB] | VER  |
| 1.  | 2483.50        | BB          | 35.5           | 35.1 | 28.8                    | 36.8                | 4.0                   | 9.9            | 41.4             | 41.0 | 54.0                | 12.6        | 13.0 |
| 2.  | 4960.00        | BB          | 32.4           | 32.2 | 33.3                    | 37.3                | 5.8                   | 0.4            | 34.6             | 34.4 | 54.0                | 19.4        | 19.6 |
| 3.  | 7440.00        | BB          | 31.7           | 31.6 | 36.9                    | 37.0                | 6.7                   | 0.5            | 38.8             | 38.7 | 54.0                | 15.2        | 15.3 |
| 4.  | 9920.00        | BB          | 32.3           | 33.4 | 38.6                    | 36.9                | 7.6                   | 0.8            | 42.4             | 43.5 | 54.0                | 11.6        | 10.5 |
| 5.  | 12400.00       | BB          | 32.3           | 31.9 | 40.4                    | 35.4                | 8.6                   | 0.6            | 46.5             | 46.1 | 54.0                | 7.5         | 7.9  |
| 6.  | 14880.00       | BB          | 31.8           | 32.0 | 42.3                    | 34.8                | 9.5                   | 0.6            | 49.4             | 49.6 | 54.0                | 4.6         | 4.4  |
| 7.  | 17360.00       | BB          | 33.0           | 32.7 | 44.5                    | 34.2                | 9.7                   | 0.2            | 53.2             | 52.9 | 54.0                | 0.8         | 1.1  |
| 8.  | 19840.00       | BB          | 33.2           | 33.2 | 40.9                    | 33.9                | 10.3                  | 0.0            | 50.5             | 50.5 | 54.0                | 3.5         | 3.5  |
| 9.  | 22320.00       | BB          | 34.1           | 33.9 | 40.9                    | 33.1                | 11.0                  | 0.0            | 52.9             | 52.7 | 54.0                | 1.1         | 1.3  |
| 10. | 24800.00       | BB          | 34.0           | 34.0 | 40.9                    | 33.5                | 11.7                  | 0.0            | 53.1             | 53.1 | 54.0                | 0.9         | 0.9  |

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

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

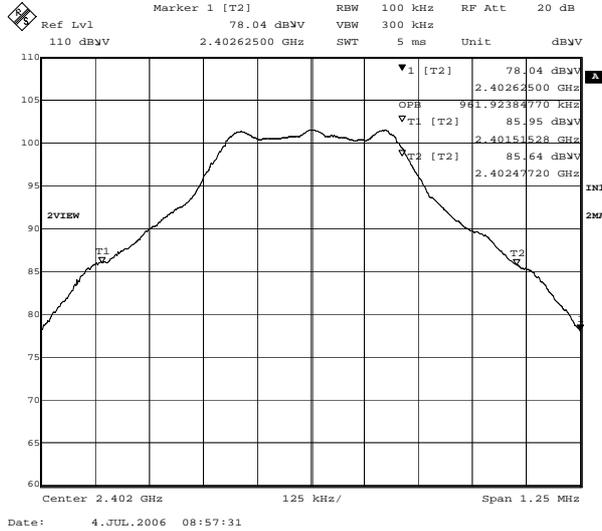
■ CABLE: KCC-D3/D7 ■ PREAMP: KAF-02 (8449B) ■ SPECTRUMANALYZER: KSA-04 (R3271A)

## Occupied Bandwidth(99%)

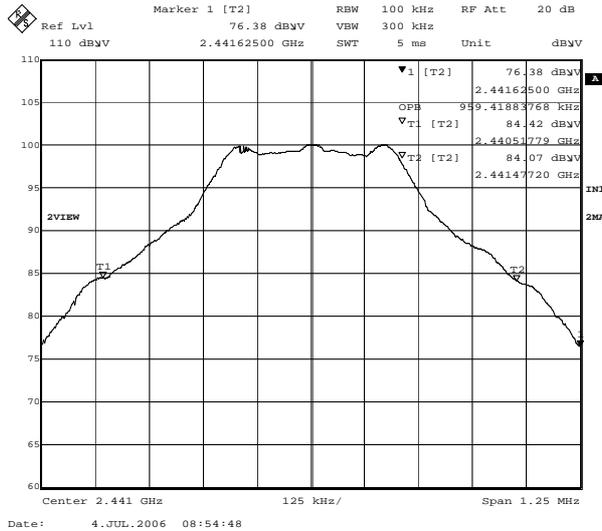
**COMPANY** : Sony EMCS Corporation Saitama TEC  
**EQUIPMENT** : Wireless Stereo Headset  
**MODEL NUMBER**: DR-BT10CX  
**SERIAL NUMBER**: #3A  
**FCC ID** : AK8DRBT10CX  
**POWER** : DC3.7V

**UL Apex Co.,Ltd. Yamakita No.2 Shielded Room**  
**REPORT NO** : 26IE0239-YK-A  
**REGULATION** : RSS-210  
**DATE** : 2006/07/04  
**TEMP/HUMI** : 22deg.C./68%  
**TEST MODE** : Transmitting  
**ENGINEER** : Makoto Hosaka

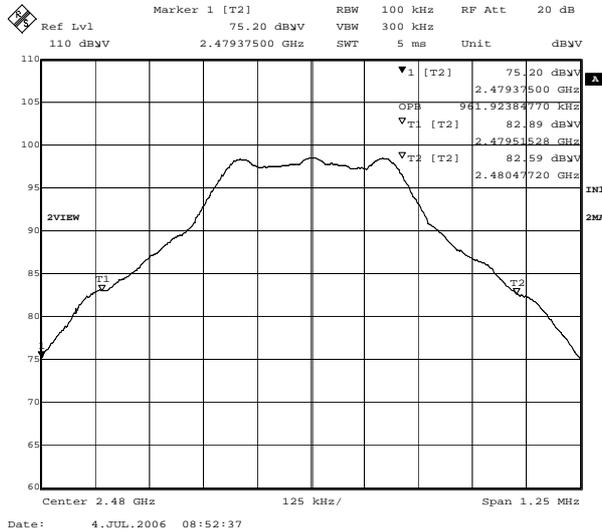
### 1. ch : 2402MHz/Occupied Bandwidth:961.92kHz



### 2. ch : 2437MHz/Occupied Bandwidth:959.42kHz



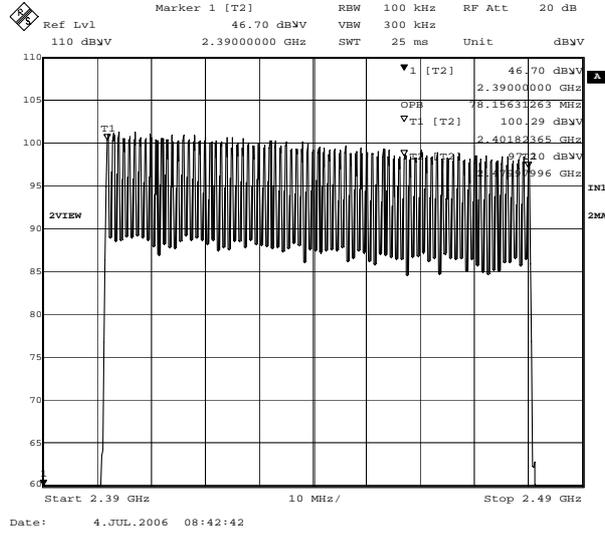
### 3. ch : 2462MHz/Occupied Bandwidth:961.92kHz



## Occupied Bandwidth(99%)

|  |   |
|--|---|
| <p>COMPANY : Sony EMCS Corporation Saitama TEC<br/>         EQUIPMENT : Wireless Stereo Headset<br/>         MODEL NUMBER: DR-BT10CX<br/>         SERIAL NUMBER: #3A<br/>         FCC ID : AK8DRBT10CX<br/>         POWER : DC3.7V</p> | <p style="text-align: right;">UL Apex Co.,Ltd. Yamakita No.2 Shielded Room</p> <p>REPORT NO : 26IE0239-YK-A<br/>         REGULATION : RSS-210<br/>         DATE : 2006/07/04<br/>         TEMP./HUMI : 22deg.C./68%<br/>         TEST MODE : Transmitting<br/>         ENGINEER : Makoto Hosaka</p> |
|--|---|

### 4. Hopping/Occupied Bandwidth:78.16MHz



Test Report No :26IE0239-YK-A

### APPENDIX 3 Test Instruments

#### EMI test equipment

| Control No.                | Instrument                    | Manufacturer          | Model No               | Test Item          | Calibration Date *<br>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<br>/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<br>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)