

# EMI TEST REPORT

**Test Report No. : 22GE0037-YW-3**

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**Applicant:** Sony Corporation

**Type of Equipment:** Nursery Monitor (Transmitter)

**Model No.:** NTM-900

**Test standard:** FCC Part 15 Subpart C §15.207, §15.249

**Test Result:** Complied

1. This test report shall not be reproduced in full or partial, without the written approval of A-Pex International Co., Ltd.
2. The results in this report apply only to the sample tested.
3. This equipment is in compliance with above regulation. We hereby certify that the data contains a true representation of the EMC profile.
4. The test results in this report are traceable to the national or international standards.
5. This test report does not constitute an endorsement by NIST/NVLAP or U.S. Government.

**Date of test:** February 7, 13, 19 and 25, 2002    **Issued date:** March 27, 2002

**Tested by:**   
 Naoki Sakamoto  
 Group Leader of EMC section

**Approved by:**   
 Kazutoyo Nakanishi  
 Site Operation Manager of EMC section

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**A-pex International Co., Ltd.**

**YOKOWA LAB.**

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MF060b(22.05.01)

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## **SECTION 1: Client information**

Company name : Sony Corporation

Address : Sinagawa INTERCITY C Tower 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

## **SECTION 2: Equipment under test (E.U.T.)**

### **2.1 Identification of E.U.T.**

Type of Equipment : Nursery Monitor (Transmitter)

Model No. : NTM-900

Serial No. : 19

Condition of EUT : Engineering prototype

Rating : DC 9V (AC Adaptor: AC120V / 60Hz)

Country of Manufacture : Japan

Receipt Date of Sample : February 7, 2002

### **2.2 Product Description**

NTM-900 (referred to as the EUT in this report) is a Nursery Monitor (Transmitter).

The specification is as follows;

Antenna Type : Wire Antenna  
Tx Frequency : 902.2MHz, 902.3MHz, 902.4MHz, 903.1MHz, 903.2MHz, 903.3MHz,  
904.1MHz, 904.2MHz, 904.3MHz  
Modulation : F3E  
Number of Channels : 9 channels  
Microcomputer Clock : 4MHz

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### **SECTION 3: Test specification, methods & procedures**

#### **3.1 Test Specification**

Test Specification : FCC Part 15 Subpart C Section 15.207 and Section 15.249  
Title : FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional Radiators

Section 15.207 Conducted emission limits; general requirements  
Section 15.249 Operation in the band 902-928MHz, 2400-2483.5MHz,  
5725-5875MHz and 24.0-24.25GHz

#### **3.2 Methods & Procedures**

No.	Item	Test Procedure	Specification	Remarks
1	Conducted emission	ANSI C63.4:1992	Section 15.207(a)	-
2	Radiated emission	ANSI C63.4:1992	Section 15.249	3m

#### **3.3 Additions or deviations to standards**

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

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## **SECTION 4: Operation of E.U.T. during testing**

### **4.1 Operating Modes**

The EUT exercise program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to typical use.

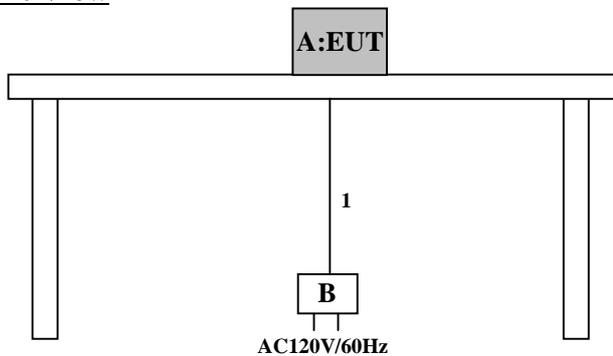
The operating mode/system were as follows:

Operation: Transmitting (1kHz Audio Signal Input)  
CH1: 902.20MHz (Low)  
CH14: 903.20MHz (Mid)  
CH27: 904.30MHz (High)

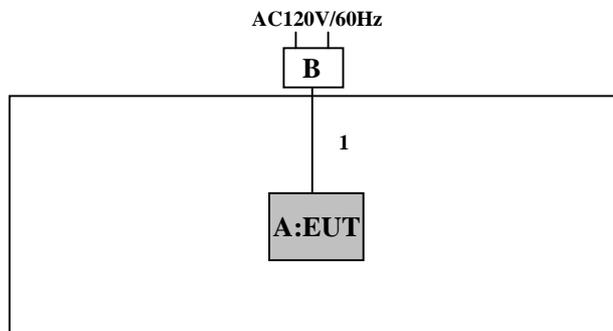
Justification: The system was configured in typical fashion (as a customer would normally use it) for testing.

### **4.2 Configuration and peripherals**

#### **Front View**



#### **Top View**



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

### **Description of EUT and Support equipment**

No.	Item	Model number	Serial number	Manufacturer	FCC ID
A	Nursery Monitor (Transmitter)	NTM-900	19	Sony Corporation	AK8NTM900 (EUT)
B	AC Adaptor	-	-	Sony Corporation	-

### **List of cables used**

No.	Name	Length (m)	Shield	Backshell Material	Remark
1	DC Power Cable	1.8	N	Polyvinyl chloride	-

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## SECTION 5: Summary of test results

### 5.1 Test results

No.	Item	Test Procedure	Specification	Worst margin	Result
1	Conducted emission	ANSI C63.4:1992	Section 15.207(a)	30.2dB (20.0000MHz:L1): CH21	Complied
2	Radiated emission	ANSI C63.4:1992	Section 15.249	<b>Fundamental</b> 4.9dB (902.20MHz: Vertical) : CH1 6.3dB (903.20MHz: Vertical) : CH11 6.5dB (904.30MHz: Vertical) : CH21 <b>Spurious</b> 6.8dB (2255.52MHz: Horizontal,AV) : CH1 6.5dB (451.60MHz: Horizontal) : CH11 6.7dB (452.15MHz: Horizontal) : CH21	Complied

A-PEX INTERNATIONAL hereby confirms that E.U.T., in the configuration tested, complies with the specifications FCC Part 15 Subpart C.

<-20dB Bandwidth>  
Refer to Appendix 3.

### 5.2 Uncertainty

Conducted Emission Test

The measurement uncertainty (with a 95% confidence level) for this test was  $\pm 2.0$ dB.

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

Radiated Emission Test

The measurement uncertainty (with a 95% confidence level) for this test using Biconical antenna is  $\pm 4.4$ dB.

The measurement uncertainty (with a 95% confidence level) for this test using Logperiodic antenna is  $\pm 4.8$ dB.

The measurement uncertainty (with a 95% confidence level) for this test using Horn antenna is  $\pm 5.8$ dB.

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

### 5.3 Test Location

A-PEX International Co.,Ltd. Yokowa No.3 test site

108 Yokowa-cho, Ise-shi, Mie-ken 516-1106 Japan

Telephone number : +81-596-39-1485

Facsimile number : +81-596-39-0232

This site has been fully described in a report submitted to FCC office, and listed on September 12, 2000 (Registration number: 90412).

\*NVLAP Lab. code : 200109-0

### 5.4 Photographs of test setup

Refer to Appendix 1.

### 5.5 Test instruments

Refer to Appendix 2.

### 5.6 Data of EMI Test

Refer to Appendix 3.

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## **SECTION 6: Conducted emission**

### **6.1 Operating environment**

The test was carried out in a shielded room 3.6 x 7.2 x 2.4m.

Temperature : See data  
Humidity : See data

### **6.2 Test configuration**

EUT was placed on a platform of nominal size, 1m by 1.5m, raised 80cm above the conducting ground plane. The rear of tabletop was located 40cm to the vertical conducting plane. The rear of EUT, including peripherals aligned and flushed with rear of tabletop. All other surfaces of tabletop was at least 80cm from any other grounded conducting surface. I/O cables and AC cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30cm to 40cm long and were hanged at a 40cm height to the ground plane. Each EUT current-carrying power lead, except the ground (safety) lead, were individually connected through a LISN to the input power source. All unused 50ohm connectors of the LISN were resistively terminated in 50ohm when not connected to the measuring equipment.

A drawing of the set up is shown in the photos of Appendix 1.

### **6.3 Test conditions**

Frequency range : 0.45MHz-30MHz  
EUT position : Table top

### **6.4 Test procedure**

The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT on a shielded room. The EUT was connected to a Line Impedance Stabilization Network (LISN).

An overview sweep with peak detection has been performed.

The measurements have been performed with a quasi-peak detector and if required, with an average detector.

The EUT was put into operation at Transmitting mode.

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

Detector Type : QP  
IF Bandwidth : 10kHz

### **6.5 Results**

Summary of the test results: Pass

Date: 2002-02-25                      Tested by: N. Sakamoto

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**YOKOWA LAB.**

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## **SECTION 7: Radiated emission**

### **7.1 Operating environment**

The test was carried out in an open site.

Temperature : See data  
Humidity : See data

### **7.2 Test configuration**

EUT was placed on a platform of nominal size, 1m by 1.5m, raised 80cm above the conducting ground plane. The rear of EUT, including peripherals was aligned and flush with rear of tabletop. I/O cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30cm to 40cm long and were hanged 40cm height to the ground plane. Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.

A drawing of the set up is shown in the photos of Appendix 1.

### **7.3 Test conditions**

Frequency range : 30MHz - 300MHz(Biconical Antenna) / 300MHz - 1000MHz (Logperiodic antenna) /  
1GHz - 10GHz (Horn antenna)  
Test distance : 3m  
EUT position : Table top

### **7.4 Test procedure**

The Radiated Electric Field Strength intensity has been measured on an open test site with a ground plane and at a distance of 3m.

Pre check measurements were performed at high-level of 80-90MHz, 270-290MHz and 500-700MHz in a screened room. Otherwise the noise from EUT might have been concealed by the ambient noise.

Measurements were performed with quasi-peak and peak detector.

The measuring antenna height was varied between 1 to 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

Fundamental radiated emission test was performed according to FCC 15.31 (e) varying the supply voltage between 85% and 115 % (102V-138V) to check the frequency and the level of Fundamental emission; however, there were no variation in both of the frequency and level.

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

The EUT was put into operation at Transmitting mode.

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

Frequency : 30MHz- 1000MHz  
Detector Type : QP (Test Receiver)  
IF Bandwidth : 120kHz

Frequency : 1GHz- 10GHz  
Detector Type : PK and AV (Spectrum Analyzer)  
IF Bandwidth : RBW: 1MHz, VBW: 10Hz (AV Limit) / RBW: 1MHz, VBW: 1MHz (PK Limit)

### **7.5 Results**

Summary of the test results: Pass

Date: 2002-02-7, 13 and 19

Tested by: N. Sakamoto

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

Page 10: Conducted emission

Page 11: Radiated emission

## **APPENDIX 2: Test instruments**

Page 12: Test instruments

## **APPENDIX 3: Data of EMI test**

Page 13-16: Conducted emission

Page 17: Radiated Fundamental emission

Page 18-19: -20dB Bandwidth

Page 20-22: Radiated Spurious emission (30MHz to 1000MHz)

Page 23-34: Radiated Spurious emission (1GHz to 10GHz)

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**Conducted emission**



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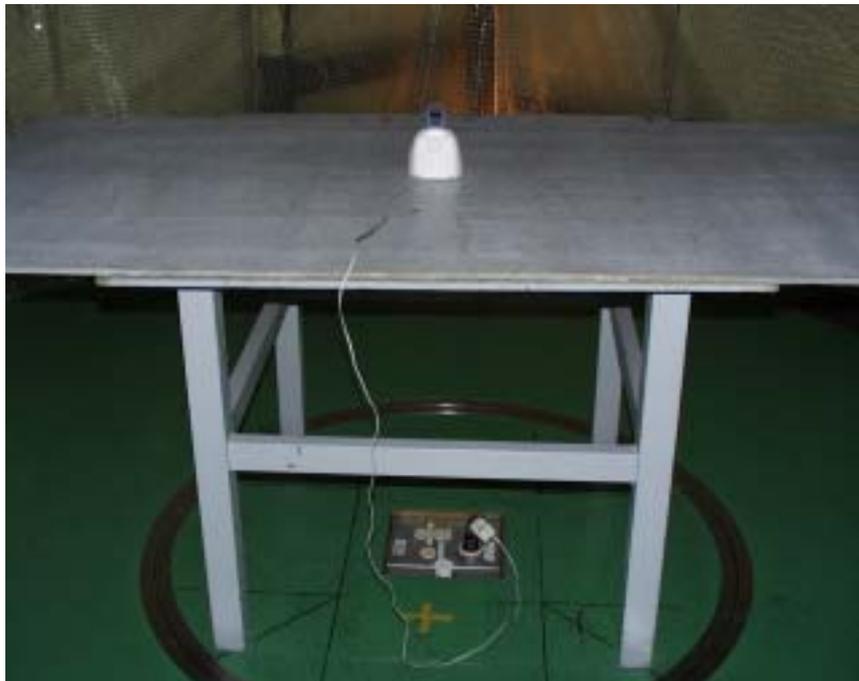
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**Radiated emission**



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Test Report No : 22GE0037-YW-3

**APPENDIX 2**  
**Test Instruments**
**EMI test equipment**

Control No.	Instrument	Manufacturer	Model No.	Emission	Calibration Date
AF-01	Pre Amplifier	Hewlett Packard	8447D	RE	2001/03/31 * 12
AF-06	Pre Amplifier	Agilent	HP8449B	RE	2001/12/21 * 12
AT-06	Attenuator	Anritsu	MP721B	RE	2001/03/31 * 12
AT-14	Attenuator	Weinschel	2	RE	2001/05/02 * 12
HF-04	High Pass Filter	Tokimec	TF323DCA	RE	2001/10/15 * 12
BA-03	Biconical Antenna	Schwarzbeck	BBA9106	RE	2001/05/01 * 12
LA-06	Logperiodic Antenna	Schwarzbeck	UHALP9108-A	RE	2001/05/01 * 12
HA-01	Horn Antenna	A.H.Systems	SAS-200/571	RE	2001/05/20 * 12
SA-04	Spectrum Analyzer	Hewlett Packard	8567A	RE / CE	2001/03/31 * 12
SA-06	Spectrum Analyzer	Advantest	R3273	RE	2001/11/20 * 12
TR-05	Test Receiver	Rohde & Schwarz	ESHS10	CE	2001/08/24 * 12
TR-06	Test Receiver	Rohde & Schwarz	ESVS10	RE	2001/11/22 * 12
LS-04	LISN	Rohde & Schwarz	ESH3-Z5	CE (EUT)	2001/11/06 * 12
LS-07	LISN	Schwarzbeck	NSLK8126	CE	2001/11/06 * 12
CC-30RC	Yokowa No.3 open coaxial(0.01-1000MHz)	A-PEX	CC-31,CC-32,C C-33,CC-34,CC-35,CC-36,CC-37,SW-31,SW-32	RE	2001/03/31 * 12
CC-3SC	Yokowa No.3 shield coaxial(0.01-30MHz)	A-PEX	CC-35,CC-36,C C-37,CC-38,SW-31,SW-32	CE	2001/03/31 * 12
YOATS-03	Open Test Site	JSE	10m	RE	2001/06/01 * 12

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

CE: Conducted emission,

RE: Radiated emission,

A-PEX INTERNATIONAL CO., LTD.

# DATA OF CONDUCTION TEST

A-PEX INTERNATIONAL CO., LTD.  
YOKOWA No.3 OPEN TEST SITE  
Report No. : 22GE0037--YW-3

Applicant : SONY Corporation  
Kind of Equipment : Nursery Monitor  
Model No. : NTM-900  
Serial No. : No. 19  
Power : AC120V/60Hz  
Mode : Transmitting (CH21)  
Remarks : FCC ID : AK8NTM900  
Date : 2/25/2002  
Phase : Single Phase  
Temperature : 21 °C  
Humidity : 39 %  
Regulation : FCC Part15. 207

  
Engineer : Naoki Sakamoto

No.	FREQ. [MHz]	READING (N)		READING (L1)		LISN FACTOR [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS		MARGIN	
		QP [dBuV]	AV	QP [dBuV]	AV				QP [dBuV]	AV	QP [dBuV]	AV	QP [dB]	AV
1.	3.9986	12.2	-	14.7	-	0.2	0.2	0.0	15.1	-	48.0	0.0	32.9	-
2.	7.9994	9.3	-	12.7	-	0.4	0.3	0.0	13.4	-	48.0	0.0	34.6	-
3.	12.0000	8.1	-	12.5	-	0.5	0.3	0.0	13.3	-	48.0	0.0	34.7	-
4.	15.9988	10.9	-	14.1	-	0.7	0.4	0.0	15.2	-	48.0	0.0	32.8	-
5.	20.0000	14.4	-	16.5	-	0.9	0.4	0.0	17.8	-	48.0	0.0	30.2	-
6.	27.9987	13.0	-	14.1	-	0.9	0.5	0.0	15.5	-	48.0	0.0	32.5	-

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

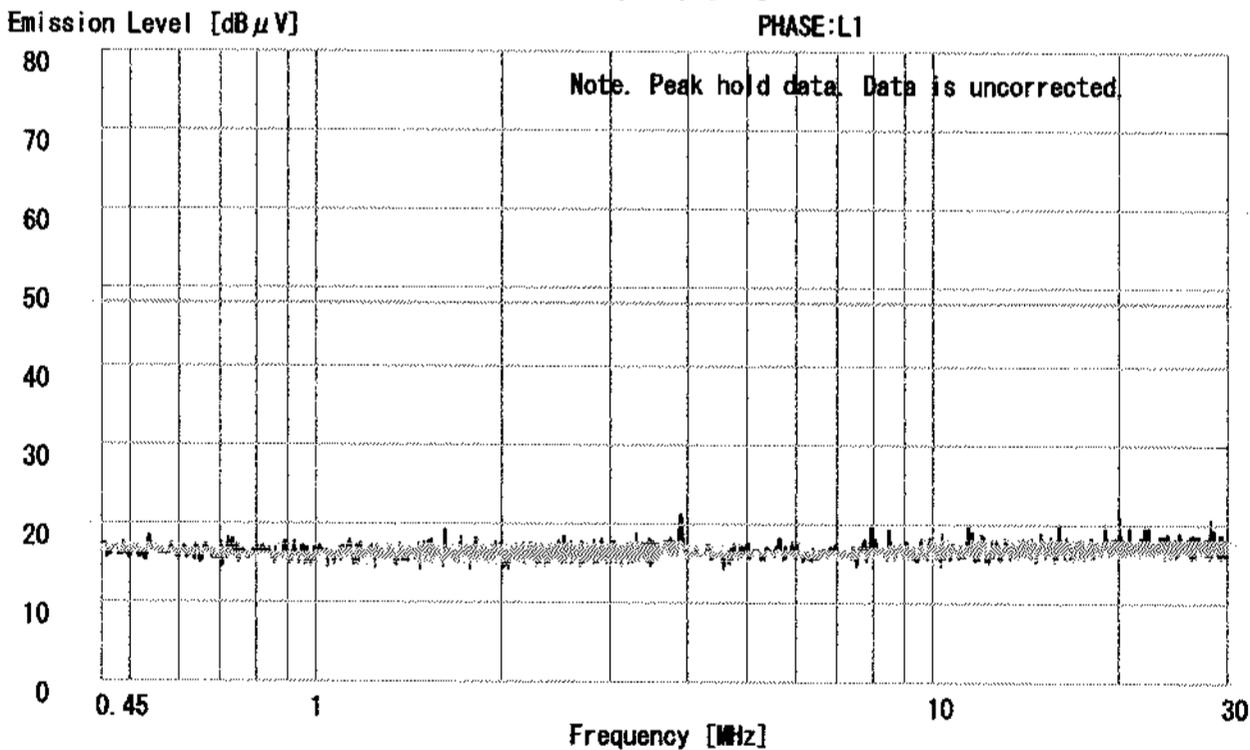
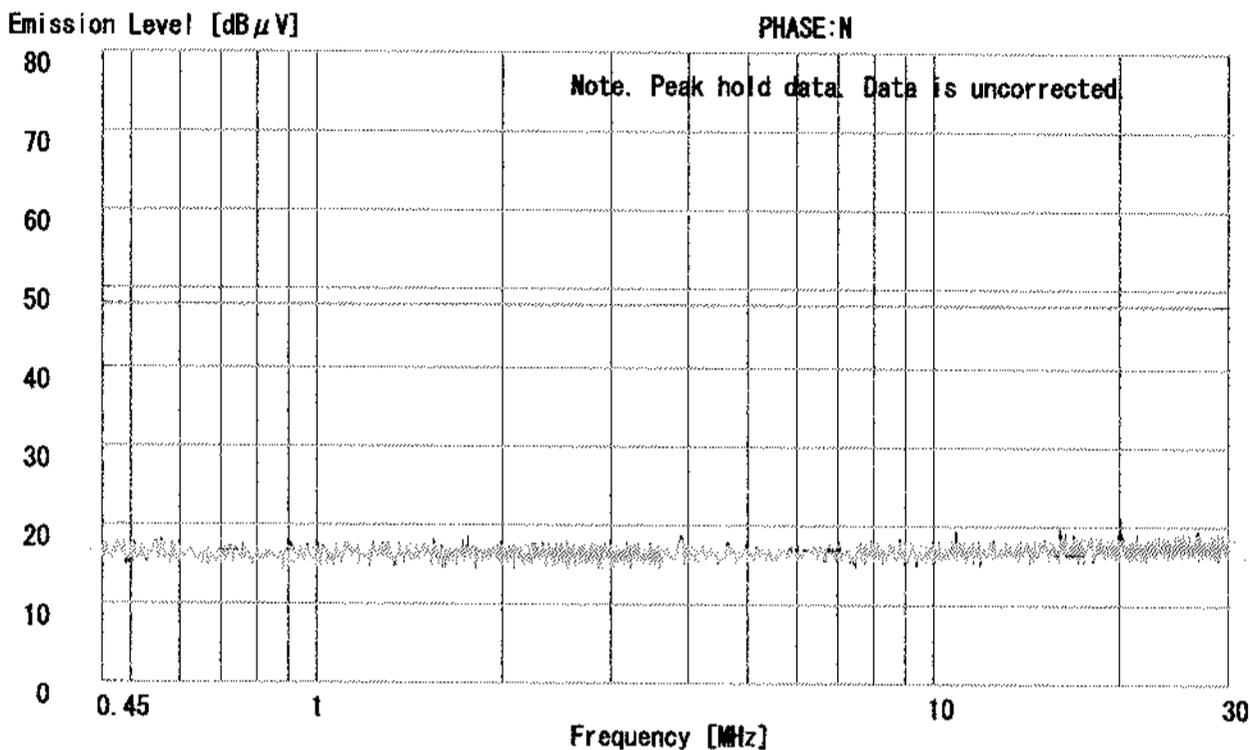
All other spurious emissions were less than 20dB for the limit.

# DATA OF CONDUCTION TEST CHART

A-PEX INTERNATIONAL CO., LTD.  
YOKOWA No.3 OPEN TEST SITE  
Report No. : 22GE0037—YW-3

Applicant : SONY Corporation  
Kind of Equipment : Nursery Monitor  
Model No. : NTM-900  
Serial No. : No. 19  
Power : AC120V/60Hz  
Mode : Transmitting (CH1)  
Remarks : FCC ID : AK8NTM900  
Date : 2/25/2002  
Phase : Single Phase  
Temperature : 21 °C  
Humidity : 39 %  
Regulation 1 : FCC Part15.207  
Regulation 2 : FCC Part15.207

  
Engineer : Naoki Sakamoto

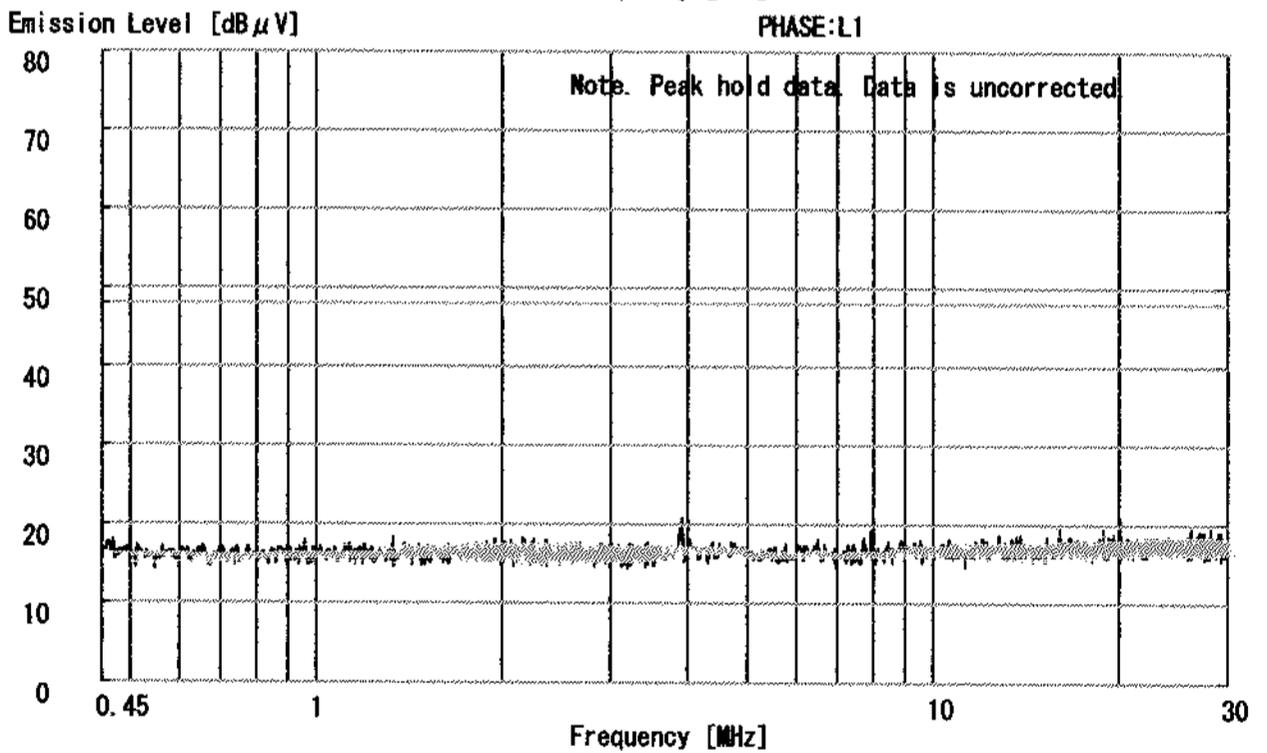
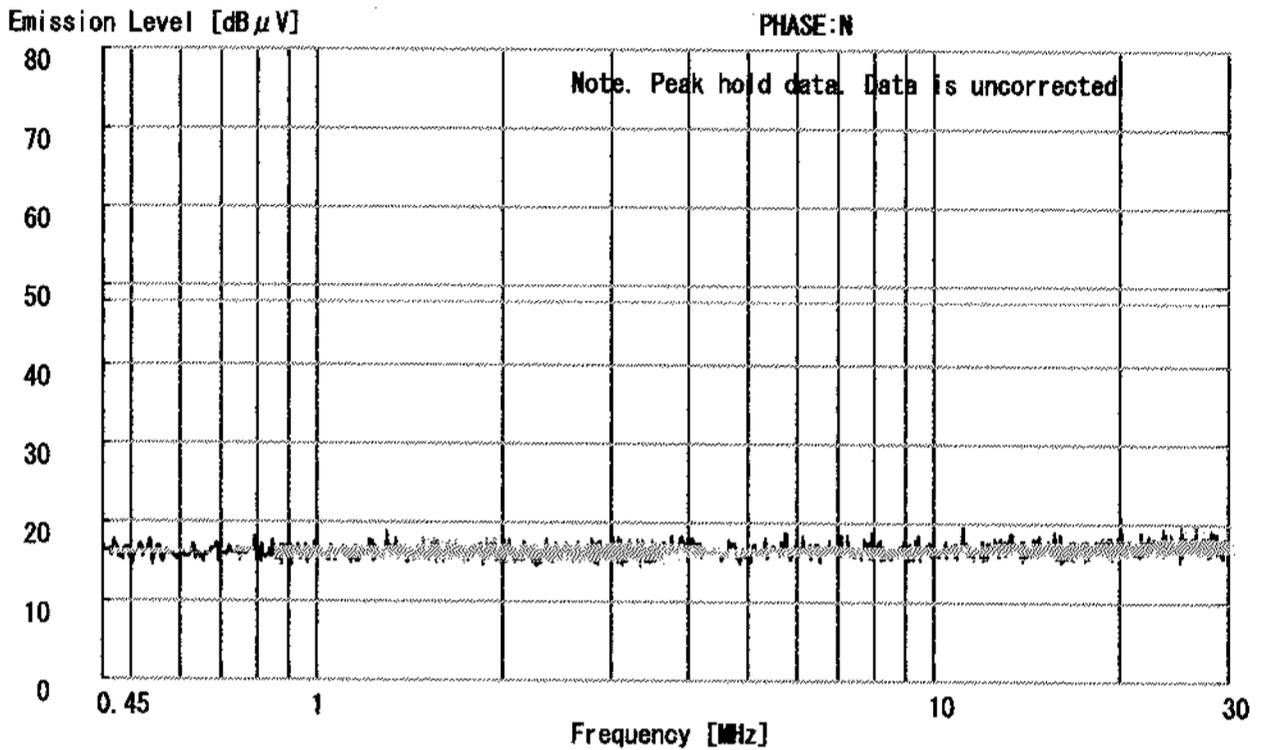


# DATA OF CONDUCTION TEST CHART

A-PEX INTERNATIONAL CO., LTD.  
YOKOWA No.3 OPEN TEST SITE  
Report No. : 22GE0037—YW-3

Applicant : SONY Corporation  
Kind of Equipment : Nursery Monitor  
Model No. : NTM-900  
Serial No. : No. 19  
Power : AC120V/60Hz  
Mode : Transmitting (CH11)  
Remarks : FCC ID : AK8NTM900  
Date : 2/25/2002  
Phase : Single Phase  
Temperature : 21 °C  
Humidity : 39 %  
Regulation 1 : FCC Part15.207  
Regulation 2 : FCC Part15.207

Engineer : Naoki Sakamoto

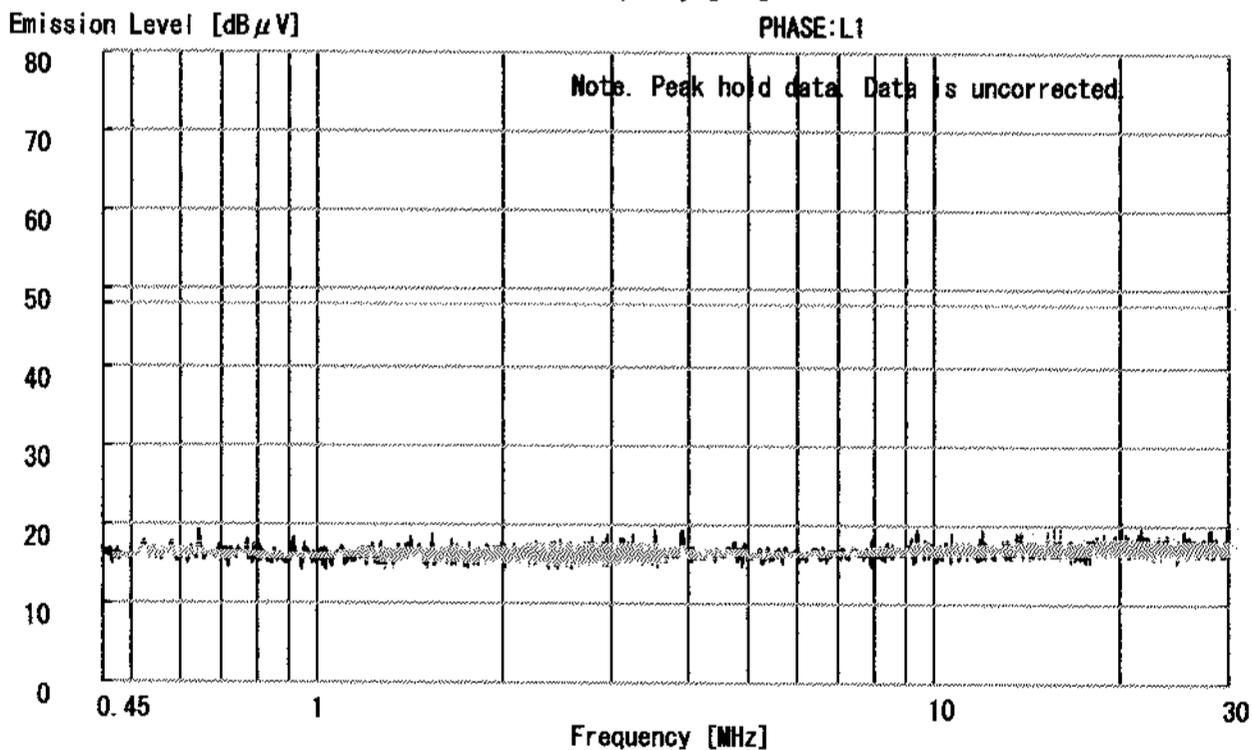
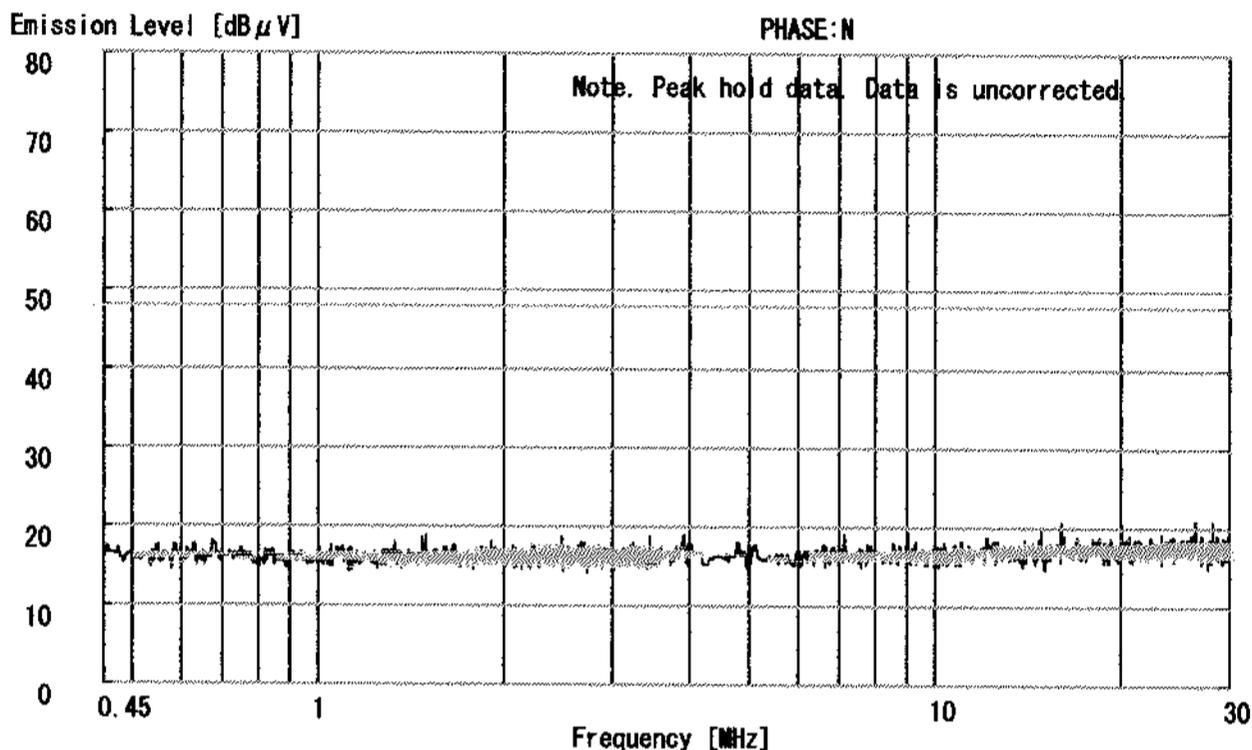


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Report No. : 22GE0037—YW-3

Applicant : SONY Corporation  
Kind of Equipment : Nursery Monitor  
Model No. : NTM-900  
Serial No. : No. 19  
Power : AC120V/60Hz  
Mode : Transmitting(CH21)  
Remarks : FCC ID : AK8NTM900  
Date : 2/25/2002  
Phase : Single Phase  
Temperature : 21 °C  
Humidity : 39 %  
Regulation 1 : FCC Part15.207  
Regulation 2 : FCC Part15.207

Engineer : Naoki Sakamoto

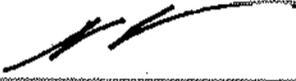


# DATA OF FUNDAMENTAL TESTS

A-PEX INTERNATIONAL CO., LTD.  
YOKOWA NO.3 OPEN SITE

COMPANY : SONY Corporation  
EQUIPMENT : Nursery Monitor  
MODEL : NTM-900  
S/N : 19  
FCC ID : AK8NTM900  
POWER : AC120V/60Hz  
Mode : Transmitting

REPORT NO : 22GE0037-YW-3  
REGULATION : Fcc Part15SubpartC 249(a)  
TEST DISTANCE : 3m  
DATE : 2002/2/13  
Temperature : 20degrees centigrade  
Humidity : 37%

  
ENGINEER : Naoki Sakamoto

## CISPR QP DETECT

No.	FREQ [MHz]	T/R READING		ANT Factor [dB]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN [dB]	RESULT		Limit QP [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]					HOR [dBuV/m]	VER [dBuV/m]		HOR [dB]	VER [dB]
Ch1	902.20	76.6	80.4	22.5	26.6	6.9	5.8	85.2	89	93.9	8.7	4.9
Ch11	903.20	72.6	79.0	22.5	26.6	6.9	5.8	81.2	87.6	93.9	12.7	6.3
Ch21	904.30	72.5	78.8	22.5	26.6	6.9	5.8	81.1	87.4	93.9	12.8	6.5

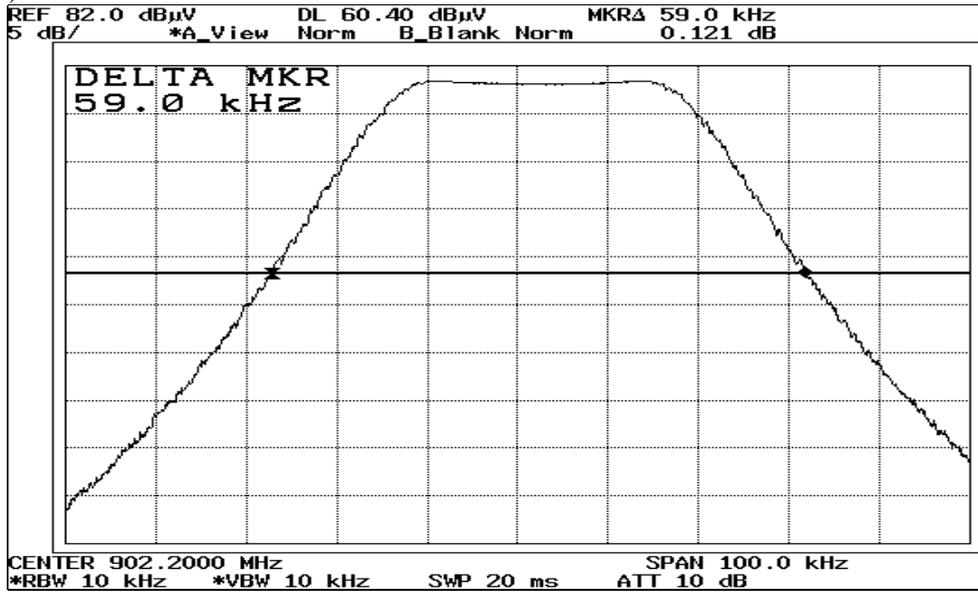
Sample Calculation :

RESULT=Reading + ANT Factor - Amp Gain + CABLE LOSS + ATTEN

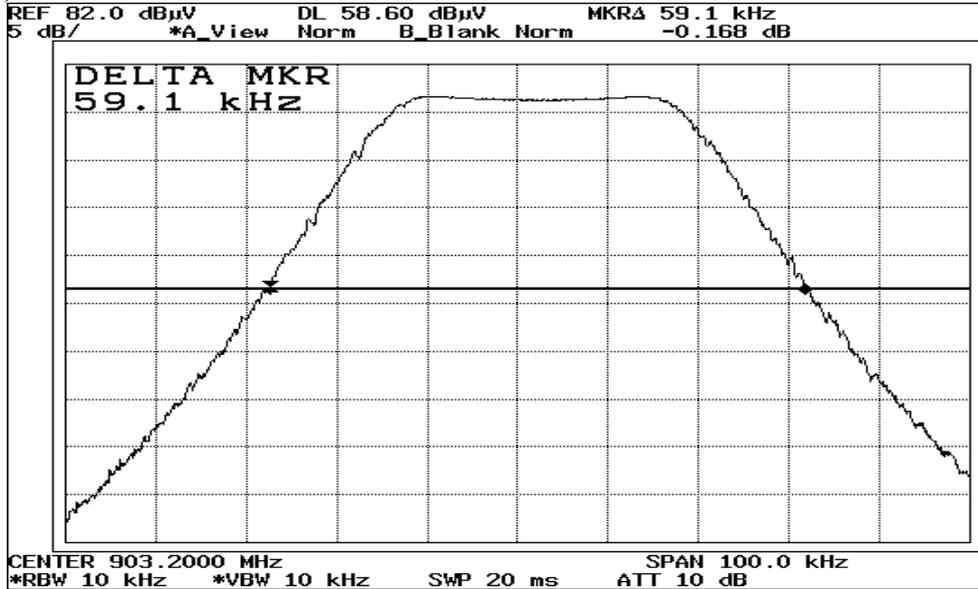
- \*Ch 1: 902.20MHz Transmitting
- \*Ch11: 903.20MHz Transmitting
- \*Ch21: 904.30MHz Transmitting

**Signal 1kHz input**

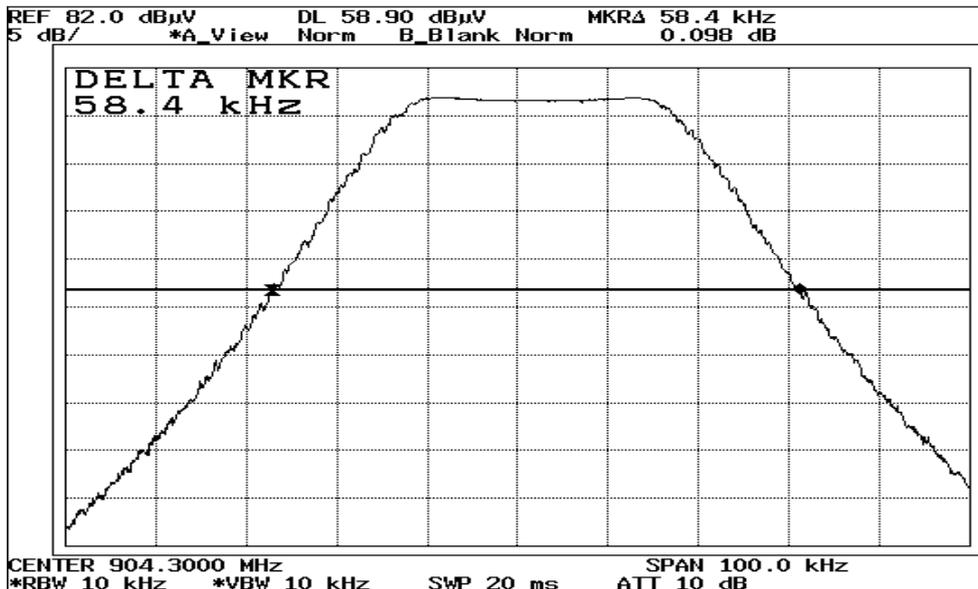
1. 902.20MHz(Low)



2. 903.20MHz(Mid)

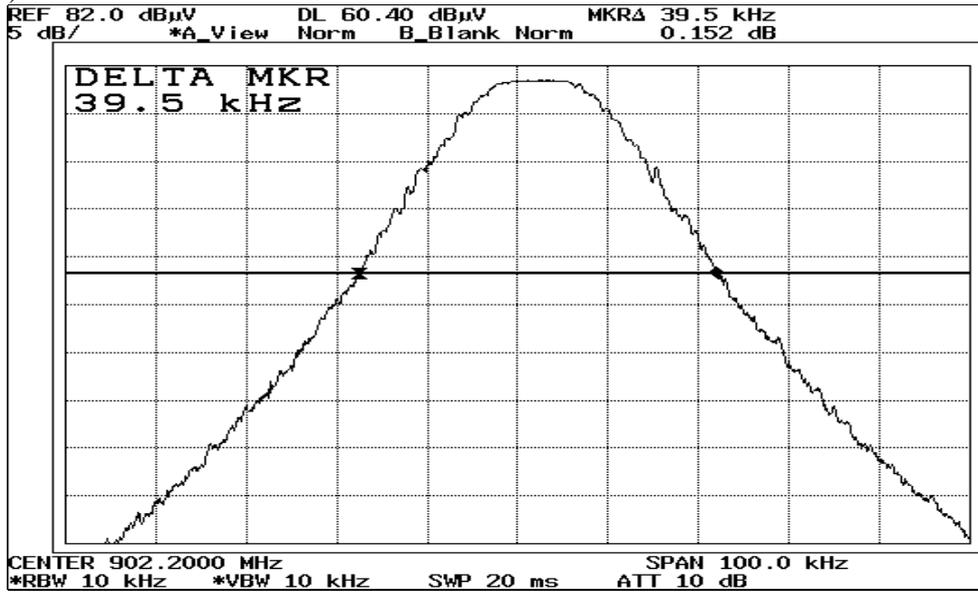


3. 904.30MHz(Hi)

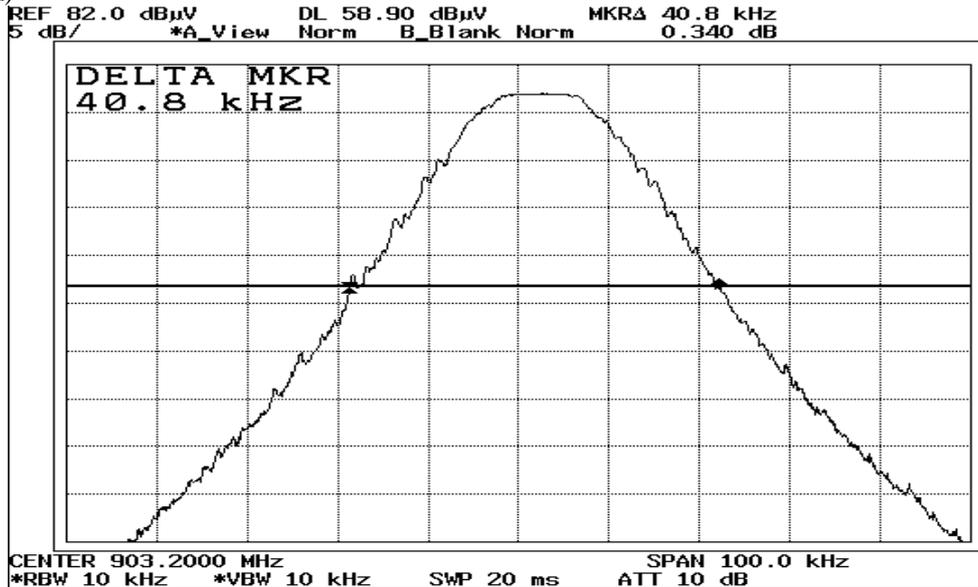


**Non Signal input**

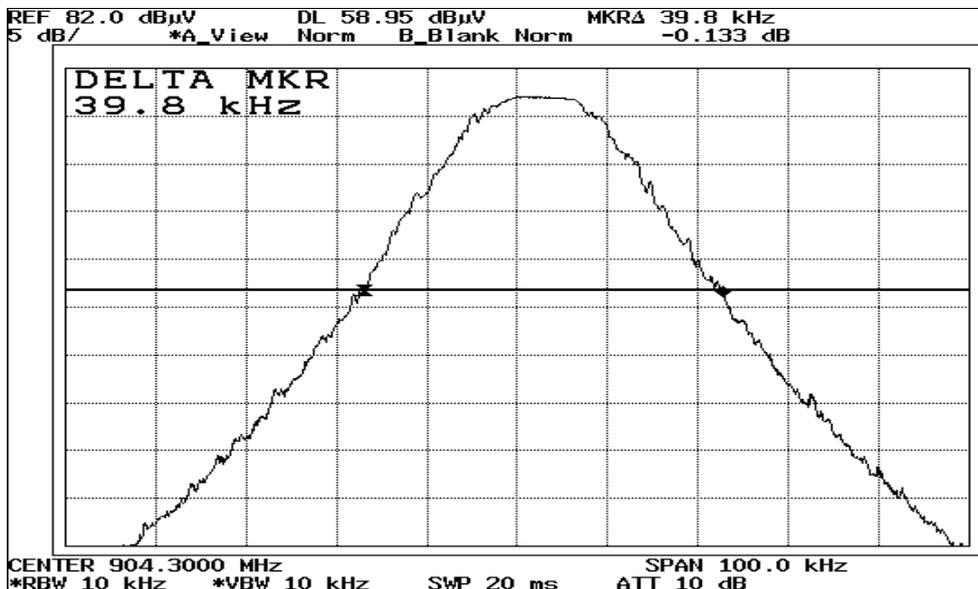
**1. 902.20MHz(Low)**



**2. 903.20MHz(Mid)**



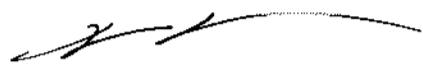
**3. 904.30MHz(Hi)**



# DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.  
YOKOWA No.3 OPEN TEST SITE  
Report No. : 22GE0037-YW-3

Applicant : SONY Corporation  
Kind of Equipment : Nursery Monitor  
Model No. : NTM-900  
Serial No. :  
Power : AC120V/60Hz  
Mode : Transmitting(Ch1)  
Remarks : FCC ID : AK8NTM900  
Date : 3/19/2002  
Test Distance : 3 m  
Temperature : 25 °C  
Humidity : 41 %  
Regulation : Fcc 15C §15.209(a)

  
Engineer : Naoki Sakamoto

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.	48.01	BB	25.0	34.0	11.6	28.1	1.3	6.0	15.8	24.8	40.0	24.2	15.2	
2.	56.04	BB	24.4	33.3	8.8	28.1	1.3	6.0	12.4	21.3	40.0	27.6	18.7	
3.	451.09	BB	38.9	37.0	16.8	27.6	4.6	5.8	38.5	36.6	46.0	7.5	9.4	

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

All other spurious emissions were less than 20dB for the limit.  
ANT. TYPE: 30-300MHz Biconical, 300-1000MHz Logperiodic

# DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.  
YOKOWA No.3 OPEN TEST SITE  
Report No. : 22GE0037-YW-3

Applicant : SONY Corporation  
 Kind of Equipment : Nursery Monitor  
 Model No. : NTM-900  
 Serial No. :  
 Power : AC120V/60Hz  
 Mode : Transmitting(Ch11)  
 Remarks : FCC ID : AK8NTM900  
 Date : 3/19/2002  
 Test Distance : 3 m  
 Temperature : 25 °C  
 Humidity : 41 %  
 Regulation : Fcc 15C § 15.209(a)



Engineer : Naoki Sakamoto

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 [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]	HOR [dB]	VER [dB]		
1.	48.00	BB	24.2	33.8	11.6	28.1	1.3	6.0	15.0	24.6	40.0	25.0	15.4	
2.	56.04	BB	24.6	33.7	8.8	28.1	1.3	6.0	12.6	21.7	40.0	27.4	18.3	
3.	451.60	BB	39.9	39.1	16.8	27.6	4.6	5.8	39.5	38.7	46.0	6.5	7.3	

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

All other spurious emissions were less than 20dB for the limit.  
 ANT. TYPE: 30-300MHz Biconical, 300-1000MHz Logperiodic

# DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.  
YOKOWA No.3 OPEN TEST SITE  
Report No. : 22GE0037-YW-3

Applicant : SONY Corporation  
Kind of Equipment : Nursery Monitor  
Model No. : NTM-900  
Serial No. :  
Power : AC120V/60Hz  
Mode : Transmitting (Ch21)  
Remarks : FCC ID : AK8NTM900  
Date : 3/19/2002  
Test Distance : 3 m  
Temperature : 25 °C  
Humidity : 41 %  
Regulation : Fcc 15C § 15.209 (a)

  
Engineer : Naoki Sakamoto

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 [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]	HOR [dB]	VER [dB]		
1.	48.00	BB	25.7	34.1	11.6	28.1	1.3	6.0	16.5	24.9	40.0	23.5	15.1	
2.	56.04	BB	24.0	32.5	8.8	28.1	1.3	6.0	12.0	20.5	40.0	28.0	19.6	
3.	452.15	BB	39.7	38.6	16.8	27.6	4.6	5.8	39.3	38.2	46.0	6.7	7.8	

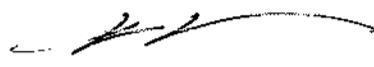
CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

All other spurious emissions were less than 20dB for the limit.  
ANT. TYPE: 30-300MHz Biconical, 300-1000MHz Logperiodic

# DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.  
YOKOWA No.3 OPEN TEST SITE  
Report No. : 22GE0037-YW-3

Applicant : SONY Corporation  
Kind of Equipment : Nursery Monitor  
Model No. : NTM-900  
Serial No. :  
Power : AC120V/60Hz  
Mode : Transmitting (Ch1)  
Remarks : FCC ID : AK8NTM900  
Date : 3/7/2002  
Test Distance : 3 m  
Temperature : 21 °C  
Humidity : 40 %  
Regulation : FCC Part 15 Subpart C Section 15.209 (Peak Limit / Upper 1GHz)

  
Engineer : Naoki Sakamoto

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.	1353.30	BB	48.2	50.3	26.6	38.7	1.8	10.0	47.9	50.0	74.0	26.1	24.0	
2.	1804.40	BB	46.9	48.9	29.2	38.2	2.2	9.9	50.0	52.0	74.0	24.0	22.0	
3.	2255.52	BB	48.8	48.3	31.0	38.0	2.7	10.0	54.5	54.0	74.0	19.5	20.0	
4.	2706.60	BB	46.2	47.5	31.6	38.1	3.0	10.1	52.8	54.1	74.0	21.2	19.9	

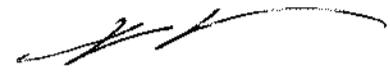
CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

All other spurious emissions were less than 20dB for the limit.  
ANT. TYPE: Horn Antenna

# DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.  
YOKOWA No.3 OPEN TEST SITE  
Report No. : 22GE0037-YW-3

Applicant : SONY Corporation  
 Kind of Equipment : Nursery Monitor  
 Model No. : NTM-900  
 Serial No. :  
 Power : AC120V/60Hz  
 Mode : Transmitting (Ch1)  
 Remarks : FCC ID : AK8NTM900  
 Date : 3/7/2002  
 Test Distance : 3 m  
 Temperature : 21 °C  
 Humidity : 40 %  
 Regulation : FCC Part 15 Subpart C Section 15.209 (Peak Limit / Upper 1GHz)



Engineer : Naoki Sakamoto

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.	3608.80	BB	44.3	44.7	32.1	38.1	3.5	0.9	42.7	43.1	74.0	31.3	30.9	
2.	4511.00	BB	43.7	43.4	34.2	38.2	4.0	1.1	44.8	44.5	74.0	29.2	29.5	
3.	5413.20	BB	42.0	42.9	36.1	37.8	4.4	1.0	45.7	46.6	74.0	28.3	27.4	
4.	6315.40	BB	42.3	42.4	37.6	38.2	4.9	0.7	47.3	47.4	74.0	26.7	26.6	
5.	7217.60	BB	41.9	42.2	39.1	38.2	5.7	0.5	49.0	49.3	74.0	25.0	24.7	
6.	8119.80	BB	43.6	43.0	38.4	38.3	6.1	0.5	50.3	49.7	74.0	23.7	24.3	
7.	9022.00	BB	43.4	43.1	40.3	38.5	6.4	0.5	52.1	51.8	74.0	21.9	22.2	

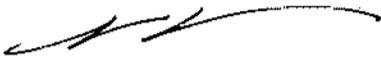
CALCULATION: READING + ANT. FACTOR + CABLE LOSS - AMP. GAIN + ATTEN.

All other spurious emissions were less than 20dB for the limit.  
 ANT. TYPE: Horn Antenna

# DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.  
YOKOWA No.3 OPEN TEST SITE  
Report No. : 22GE0037-YW-3

Applicant : SONY Corporation  
Kind of Equipment : Nursery Monitor  
Model No. : NTM-900  
Serial No. :  
Power : AC120V/60Hz  
Mode : Transmitting(Ch1)  
Remarks : FCC ID : AK8NTM900  
Date : 3/7/2002  
Test Distance : 3 m  
Temperature : 21 °C  
Humidity : 40 %  
Regulation : FCC Part 15 Subpart C Section 15.209 (Average Limit / Upper 1GHz)

  
Engineer : Naoki Sakamoto

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.	1353.30	BB	39.8	44.0	26.6	38.7	1.8	10.0	39.5	43.7	54.0	14.5	10.3	
2.	1804.40	BB	36.7	41.2	29.2	38.2	2.2	9.9	39.8	44.3	54.0	14.2	9.7	
3.	2255.52	BB	41.5	36.7	31.0	38.0	2.7	10.0	47.2	42.4	54.0	6.8	11.6	
4.	2706.60	BB	34.9	34.5	31.6	38.1	3.0	10.1	41.5	41.1	54.0	12.5	12.9	

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

ALL other spurious emissions were less than 20dB for the limit.  
ANT. TYPE: DRG Horn

# DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.  
YOKOWA No.3 OPEN TEST SITE  
Report No. : 22GE0037-YW-3

Applicant : SONY Corporation  
Kind of Equipment : Nursery Monitor  
Model No. : NTM-900  
Serial No. :  
Power : AC120V/60Hz  
Mode : Transmitting (Ch1)  
Remarks : FCC ID : AK8NTM900  
Date : 3/7/2002  
Test Distance : 3 m  
Temperature : 21 °C  
Humidity : 40 %  
Regulation : FCC Part 15 Subpart C Section 15.209 (Average Limit / Upper 1GHz)

  
Engineer : Naoki Sakamoto

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.	3608.80	BB	34.0	33.4	32.1	38.1	3.5	0.9	32.4	31.8	54.0	21.6	22.2
2.	4511.00	BB	33.3	32.8	34.2	38.2	4.0	1.1	34.4	33.9	54.0	19.6	20.1
3.	5413.20	BB	32.0	31.4	36.1	37.8	4.4	1.0	35.7	35.1	54.0	18.3	18.9
4.	6315.40	BB	32.2	31.5	37.6	38.2	4.9	0.7	37.2	36.5	54.0	16.8	17.5
5.	7217.60	BB	32.6	31.8	39.1	38.2	5.7	0.5	39.7	38.9	54.0	14.3	15.1
6.	8119.80	BB	33.3	32.4	38.4	38.3	6.1	0.5	40.0	39.1	54.0	14.0	14.9
7.	9022.00	BB	33.0	32.9	40.3	38.5	6.4	0.5	41.7	41.6	54.0	12.3	12.4

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

ALL other spurious emissions were less than 20dB for the limit.  
ANT. TYPE: DRG Horn

# DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.  
YOKOWA No.3 OPEN TEST SITE  
Report No. : 22GE0037-YW-3

Applicant : SONY Corporation  
Kind of Equipment : Nursery Monitor  
Model No. : NTM-900  
Serial No. : 19  
Power : AC120V/60Hz  
Mode : Transmitting (Ch11)  
Remarks : FCC ID : AK8NTM900  
Date : 3/7/2002  
Test Distance : 3 m  
Temperature : 21 °C  
Humidity : 40 %  
Regulation : FCC Part 15 Subpart C Section 15.209 (Peak Limit / Upper 1GHz)

Engineer : Naoki Sakamoto

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 [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]	HOR [dB]	VER [dB]		
1.	1354.80	BB	48.4	51.0	26.6	38.7	1.8	10.0	48.1	50.7	74.0	25.9	23.3	
2.	1806.40	BB	47.2	48.4	29.2	38.2	2.2	9.9	50.3	51.5	74.0	23.7	22.5	
3.	2258.02	BB	48.1	46.7	31.0	38.0	2.7	10.0	53.8	52.4	74.0	20.2	21.6	
4.	2709.63	BB	46.1	46.0	31.6	38.1	3.0	10.1	52.7	52.6	74.0	21.3	21.4	
5.	3161.23	BB	46.1	45.7	31.6	38.2	3.2	10.0	52.7	52.3	74.0	21.3	21.7	

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

All other spurious emissions were less than 20dB for the limit.  
ANT. TYPE: Horn Antenna

# DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.  
YOKOWA No.3 OPEN TEST SITE  
Report No. : 22GE0037-YW-3

Applicant : SONY Corporation  
Kind of Equipment : Nursery Monitor  
Model No. : NTM-900  
Serial No. : 19  
Power : AC120V/60Hz  
Mode : Transmitting (Ch11)  
Remarks : FCC ID : AK8NTM900  
Date : 3/7/2002  
Test Distance : 3 m  
Temperature : 21 °C  
Humidity : 40 %  
Regulation : FCC Part 15 Subpart C Section 15.209 (Peak Limit / Upper 1GHz)

Engineer : Naoki Sakamoto

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 [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]	HOR [dB]	VER [dB]		
1.	3612.84	BB	43.2	43.7	32.1	38.1	3.5	0.9	41.6	42.1	74.0	32.4	31.9	
2.	4516.00	BB	42.8	43.2	34.3	38.2	4.0	1.1	44.0	44.4	74.0	30.0	29.6	
3.	5419.20	BB	41.6	41.2	36.1	37.8	4.5	1.0	45.4	45.0	74.0	28.6	29.0	
4.	6322.40	BB	41.2	42.0	37.6	38.2	5.0	0.7	46.3	47.1	74.0	27.7	26.9	
5.	7225.60	BB	42.6	41.9	39.1	38.2	5.7	0.5	49.7	49.0	74.0	24.3	25.0	
6.	8128.80	BB	42.8	43.1	38.5	38.3	6.1	0.5	49.6	49.9	74.0	24.4	24.1	
7.	9032.00	BB	42.4	43.1	40.2	38.5	6.4	0.5	51.0	51.7	74.0	23.0	22.3	

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

All other spurious emissions were less than 20dB for the limit.  
ANT. TYPE: Horn Antenna

# DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.  
YOKOWA No.3 OPEN TEST SITE  
Report No. : 22GE0037-YW-3

Applicant : SONY Corporation  
Kind of Equipment : Nursery Monitor  
Model No. : NTM-900  
Serial No. : 19  
Power : AC120V/60Hz  
Mode : Transmitting (Ch11)  
Remarks : FCC ID : AK8NTM900  
Date : 3/7/2002  
Test Distance : 3 m  
Temperature : 21 °C  
Humidity : 40 %  
Regulation : FCC Part 15 Subpart C Section 15.209 (Average Limit / Upper 1GHz)

  
Engineer : Naoki Sakamoto

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.	1354.80	BB	39.9	44.5	26.6	38.7	1.8	10.0	39.6	44.2	54.0	14.4	9.8	
2.	1806.40	BB	36.8	39.9	29.2	38.2	2.2	9.9	39.9	43.0	54.0	14.1	11.0	
3.	2258.02	BB	41.0	37.2	31.0	38.0	2.7	10.0	46.7	42.9	54.0	7.3	11.1	
4.	2709.63	BB	34.7	34.6	31.6	38.1	3.0	10.1	41.3	41.2	54.0	12.7	12.8	
5.	3161.23	BB	34.6	34.5	31.6	38.2	3.2	10.0	41.2	41.1	54.0	12.8	12.9	

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

ALL other spurious emissions were less than 20dB for the limit.  
ANT. TYPE: DRG Horn

# DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.  
YOKOWA No.3 OPEN TEST SITE  
Report No. : 22GE0037-YW-3

Applicant : SONY Corporation  
 Kind of Equipment : Nursery Monitor  
 Model No. : NTM-900  
 Serial No. : 19  
 Power : AC120V/60Hz  
 Mode : Transmitting (Ch11)  
 Remarks : FCC ID : AK8NTM900  
 Date : 3/7/2002  
 Test Distance : 3 m  
 Temperature : 21 °C  
 Humidity : 40 %  
 Regulation : FCC Part 15 Subpart C Section 15.209 (Average Limit / Upper 1GHz)

  
 Engineer : Naoki Sakamoto

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					HOR [dB μV/m]	VER	HOR [dB]	VER		
1.	3612.84	BB	34.4	34.2	32.1	38.1	3.5	0.9	32.8	32.6	54.0	21.2	21.4	
2.	4516.00	BB	33.4	33.1	34.3	38.2	4.0	1.1	34.6	34.3	54.0	19.4	19.7	
3.	5419.20	BB	31.9	31.8	36.1	37.8	4.5	1.0	35.7	35.6	54.0	18.3	18.4	
4.	6322.40	BB	31.9	31.8	37.6	38.2	5.0	0.7	37.0	36.9	54.0	17.0	17.1	
5.	7225.60	BB	32.3	32.1	39.1	38.2	5.7	0.5	39.4	39.2	54.0	14.6	14.8	
6.	8128.80	BB	32.9	32.9	38.5	38.3	6.1	0.5	39.7	39.7	54.0	14.3	14.3	
7.	9032.00	BB	32.8	32.7	40.2	38.5	6.4	0.5	41.4	41.3	54.0	12.6	12.7	

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

All other spurious emissions were less than 20dB for the limit.  
ANT. TYPE:Horn Antenna

# DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.  
YOKOWA No.3 OPEN TEST SITE  
Report No. : 22GE0037-YW-3

Applicant : SONY Corporation  
Kind of Equipment : Nursery Monitor  
Model No. : NTM-900  
Serial No. : 19  
Power : AC120V/60Hz  
Mode : Transmitting (Ch21)  
Remarks : FCC ID : AK8NTM900  
Date : 3/7/2002  
Test Distance : 3 m  
Temperature : 21 °C  
Humidity : 40 %  
Regulation : FCC Part 15 Subpart C Section 15.209 (Peak Limit / Upper 1GHz)

Engineer : Naoki Sakamoto

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 [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]	HOR [dB]	VER [dB]		
1.	1356.45	BB	48.0	50.4	26.6	38.7	1.8	10.0	47.7	50.1	74.0	26.3	23.9	
2.	1808.60	BB	47.2	48.4	29.2	38.2	2.2	9.9	50.3	51.5	74.0	23.7	22.5	
3.	2260.75	BB	48.3	46.6	31.0	38.0	2.7	10.0	54.0	52.3	74.0	20.0	21.7	
4.	2712.90	BB	46.2	46.8	31.6	38.1	3.0	10.1	52.8	53.4	74.0	21.2	20.6	
5.	3165.05	BB	46.3	45.5	31.6	38.2	3.2	10.0	52.9	52.1	74.0	21.1	21.9	

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

All other spurious emissions were less than 20dB for the limit.  
ANT. TYPE: Horn Antenna

# DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.  
YOKOWA No.3 OPEN TEST SITE  
Report No. : 22GE0037-YW-3

Applicant : SONY Corporation  
 Kind of Equipment : Nursery Monitor  
 Model No. : NTM-900  
 Serial No. : 19  
 Power : AC120V/60Hz  
 Mode : Transmitting (Ch21)  
 Remarks : FCC ID : AK8NTM900  
 Date : 3/7/2002  
 Test Distance : 3 m  
 Temperature : 21 °C  
 Humidity : 40 %  
 Regulation : FCC Part 15 Subpart C Section 15.209 (Peak Limit / Upper 1GHz)

Engineer : Naoki Sakamoto

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.	3617.20	BB	44.3	44.0	32.1	38.1	3.5	0.9	42.7	42.4	74.0	31.3	31.6	
2.	4521.50	BB	43.8	43.8	34.3	38.2	4.0	1.1	45.0	45.0	74.0	29.0	29.0	
3.	5425.80	BB	42.3	42.2	36.1	37.8	4.5	1.0	46.1	46.0	74.0	27.9	28.0	
4.	6330.10	BB	43.0	42.3	37.7	38.2	5.0	0.7	48.2	47.5	74.0	25.8	26.5	
5.	7234.40	BB	42.8	42.9	39.1	38.2	5.7	0.5	49.9	50.0	74.0	24.1	24.0	
6.	8138.70	BB	43.9	42.7	38.5	38.3	6.1	0.5	50.7	49.5	74.0	23.3	24.5	
7.	9043.00	BB	43.4	42.4	40.2	38.5	6.4	0.5	52.0	51.0	74.0	22.0	23.0	

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

All other spurious emissions were less than 20dB for the limit.  
ANT. TYPE: Horn Antenna

# DATA OF RADIATION TEST

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YOKOWA No.3 OPEN TEST SITE  
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Applicant : SONY Corporation  
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Remarks : FCC ID : AK8NTM900  
Date : 3/7/2002  
Test Distance : 3 m  
Temperature : 21 °C  
Humidity : 40 %  
Regulation : FCC Part 15 Subpart C Section 15.209 (Average Limit / Upper 1GHz)

  
Engineer : Naoki Sakamoto

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 [dB μ V]					HOR [dB μ V/m]	VER [dB μ V/m]	HOR [dB]	VER [dB]		
1.	1356.45	BB	39.5	44.9	26.6	38.7	1.8	10.0	39.2	44.6	54.0	14.8	9.4	
2.	1808.60	BB	36.5	37.0	29.2	38.2	2.2	9.9	39.6	40.1	54.0	14.4	13.9	
3.	2260.75	BB	41.3	37.1	31.0	38.0	2.7	10.0	47.0	42.8	54.0	7.0	11.2	
4.	2712.90	BB	34.8	34.4	31.6	38.1	3.0	10.1	41.4	41.0	54.0	12.6	13.0	
5.	3165.05	BB	34.7	34.3	31.6	38.2	3.2	10.0	41.3	40.9	54.0	12.7	13.1	

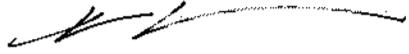
CALCULATION: READING + ANT.FACTOR + CABLE LOSS - AMP.GAIN + ATTEN.

ALL other spurious emissions were less than 20dB for the limit.  
ANT. TYPE: DRG Horn

# DATA OF RADIATION TEST

A-PEX INTERNATIONAL CO., LTD.  
YOKOWA No.3 OPEN TEST SITE  
Report No. : 22GE0037-YW-3

Applicant : SONY Corporation  
 Kind of Equipment : Nursery Monitor  
 Model No. : NTM-900  
 Serial No. : 19  
 Power : AC120V/60Hz  
 Mode : Transmitting (Ch21)  
 Remarks : FCC ID : AK8NTM900  
 Date : 3/7/2002  
 Test Distance : 3 m  
 Temperature : 21 °C  
 Humidity : 40 %  
 Regulation : FCC Part 15 Subpart C Section 15.209 (Average Limit / Upper 1GHz)

  
 Engineer : Naoki Sakamoto

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.	3617.20	BB	33.7	34.4	32.1	38.1	3.5	0.9	32.1	32.8	54.0	21.9	21.2	
2.	4521.50	BB	33.4	33.2	34.3	38.2	4.0	1.1	34.6	34.4	54.0	19.4	19.6	
3.	5425.80	BB	32.1	31.9	36.1	37.8	4.5	1.0	35.9	35.7	54.0	18.1	18.3	
4.	6330.10	BB	32.3	32.0	37.7	38.2	5.0	0.7	37.5	37.2	54.0	16.5	16.8	
5.	7234.40	BB	32.5	32.1	39.1	38.2	5.7	0.5	39.6	39.2	54.0	14.4	14.8	
6.	8138.70	BB	32.8	32.7	38.5	38.3	6.1	0.5	39.6	39.5	54.0	14.4	14.5	
7.	9043.00	BB	32.8	32.7	40.2	38.5	6.4	0.5	41.4	41.3	54.0	12.6	12.7	

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

All other spurious emissions were less than 20dB for the limit.  
ANT. TYPE:Horn Antenna