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UL Apex Co., Ltd.

YAMAKITA EMC LAB.

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

Telephone: +81 465 77 1011

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MF060b(23.04.02)

1 GENERAL INFORMATION

Applicant

Company Name : Sony EMCS Corporation Kisarazu TEC
Brand Name : SONY
Address : 8-4 Shiomi, Kisarazu-shi, Chiba-ken, 292-0834 Japan
Telephone Number : +81 438 37 3982
Facsimile Number : +81 438 37 4069
Contact Person : Shunichi Yamamoto (Shunichi@skz.sony.co.jp)
Type of Equipment : Remote Commander
Model No. : RM-TP100
Serial No. : A25
Rating : DC 3.3V
Receipt Date of Sample : January 23, 2004
Condition of EUT : Production prototype
Regulation(s) : FCC Part15 Subpart C, Section 15.249
Test Site : UL Apex No.2 Open Test Site

1.1 Tested Methodology

The measurements were performed according to the procedures in ANSI C63.4 (2001).

1.2 Test Facility

This site has been fully described in a report submitted to FCC office, and accepted on December 8, 2000 (Registration No.: 99354).

NVLAP Lab. code : 200441-0

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2 PRODUCT DESCRIPTION

Model: RM-TP100 (referred to as the EUT in this report) is a Remote Commander.
The clock frequency used in EUT : 20MHz

Frequency characteristics	:	916.5MHz
Number of channels	:	Single
Modulation	:	OOK (On-Off Keyed)
Antenna type	:	Loop
Antenna Gain	:	2.0dBi
Operating Voltage	:	DC 3.3V
Operating temperature	:	0 - 40 deg. C.

*FCC Part15.31 (e)

The remote commander provides RF module with stable power supply (DC3.3V),
and the power is not changed when voltage of the remote commander is varied.
Therefore, the Remote Commander complies power supply regulation.

*FCC Part15.203

The remote commander and its antenna comply with this requirement since this antenna is soldered in RF
module directly and it cannot be dismounted by end users.

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3 SYSTEM TEST CONFIGURATION

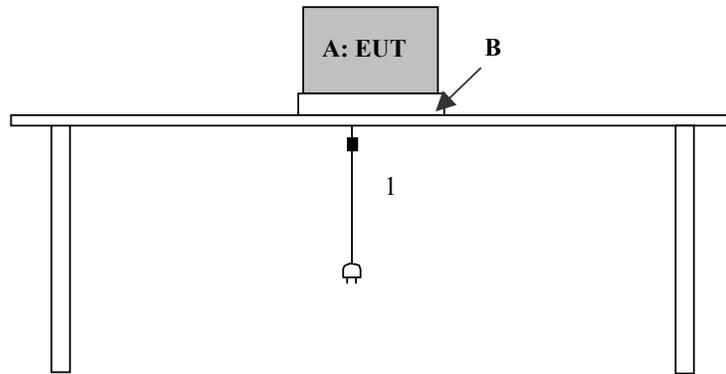
3.1 Justification

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

Test mode: Transmitting mode
 * Charging operation

3.2 Configuration of Tested System

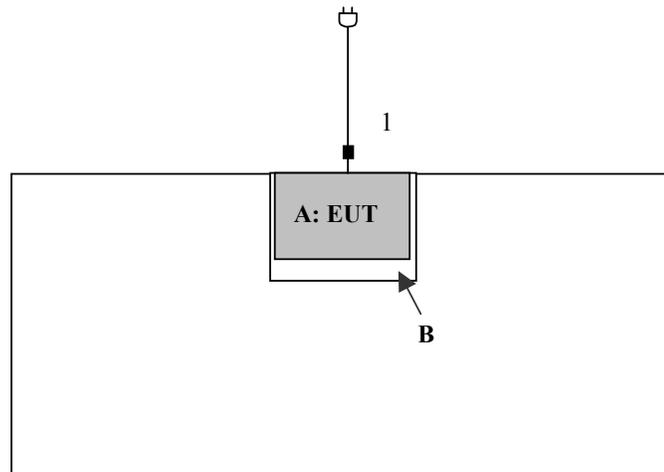
Front View



AC120V/ 60Hz

■: Ferrite core

Top View



Description of EUT and support equipment

No.	Item	Model number	Serial number	Manufacture	FCC ID	Remarks
A	Remote Commander	RM-TP100	A25	SONY	AK8RMTP100	EUT
B	Remote Commander Base Unit	RMB-TP100	B16	SONY	-	-

List of cables used

No.	Name	Length (m)	Shield	Backshell material
1	AC Power Cable	1.8	Unshielded	Polyvinyl chloride

* RS232C port is used only when dealers check operation or customize the equipment.

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4 MEASUREMENT UNCERTAINTY

Conducted emission test

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

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

Radiated emission test

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

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

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

The result is within Yamakita EMC lab's uncertainty.

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5 SUMMARY OF TESTS

5.1 §15.207 Conducted Emissions

Test Procedure

EUT was placed on a platform of nominal size, 1m by 1.8m, raised 80cm above the conducting ground plane.

The rear of tabletop was located 40cm to the vertical conducting plane. The rear of EUT, including peripheral was aligned and flushed with rear of tabletop.

All other surfaces of tabletop were at least 80cm from any other grounded conducting surface. EUT was located 80cm from LISN, and excess AC cable was bundled in center. It was folded back and forth forming a bundle 30cm to 40cm long. Each EUT current-carrying power lead, except the ground (safety) lead, was individually connected through a LISN to the input power source.

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

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

An overview sweep with peak detection has been performed.

The measurements have been performed with a quasi-peak detector (IF BW 10kHz).

(Measurement range: 450kHz to 30MHz)

Test data : APPENDIX Page 13 to 15
Test result : Pass
Test instruments : KCC- 33/34, KLS-01, KSA-04, KTR-01

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5.2 § 15.249 (a) & (d) Field Strength (Radiated Emissions)

Test Procedure

EUT was placed on a platform of nominal size, 1m by 1.8m, raised 80cm above the conducting ground plane. Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength. The Radiated Electric Field Strength intensity has been measured on an open test site 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. EUT emission levels were compared when the EUT antenna position was vertical polarization and horizontal polarization. The equipment was previously checked at each position of three axis X, Y and Z, and with base unit. The position in which the maximum noise occurred was chosen to put into measurement. See the photographs in page 12.

Fundamental

Z axis was worst under the horizontal antenna polarization and Y was worst under the vertical antenna polarization.

Spurious emission

Below 1GHz, Remote commander with base unit condition was worst under both vertical and horizontal antenna polarization. Above 1GHz, Z axis was worst under the horizontal antenna polarization and Y was worst under the vertical antenna polarization.

Maximum Filed Strength of Fundamental by §15.249 (a)

Measurement range : CISPR QP Detector, IF BW 120kHz

Test data : APPENDIX Page 16
Test result : Pass
Test instruments : KCC-20/21/22/23/29, KAF-03, KAT6-03, KTR-01, KLA-02, KOTS-02

Maximum Filed Strength of Spurious emission by §15.249 (d)

Measurement range : 30MHz to 1000MHz CISPR QP Detector, IF BW 120kHz
: 1GHz to 10GHz PK and AV Detector, IF BW 1MHz

Test data : APPENDIX Page 17 (30 - 1000MHz)
: APPENDIX Page 18 to 19 (1 - 10GHz)
Test result : Pass
Test instruments : KAF-03, KAF-04, KAT6-03, KBA-02, KTR-01, KFL-01, KHA-02
KCC-20/21/22/23/29, KCC-D8/D9/D10, KLA-02, KOTS-02, KSA-02

5.3 26dB Bandwidth

Test Procedure

The minimum 26dB bandwidth was measured with a radiated condition.

26dB Bandwidth: 139.779kHz

Test data : APPENDIX Page 20
Test result : Pass
Test instruments : KCC-20/21/22/23/29, KAF-03, KAT6-03, KTR-01, KLA-02, KOTS-02

UL Apex Co., Ltd.

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MF060b(23.04.02)

APPENDIX 1: Photographs of test setup

- 1. Page 10 : Conducted emission
- 2. Page 11 : Radiated emission
- 3. Page 12 : Pre check of worse-case position

APPENDIX 2: Test Data

- 1. Page 13 - 15 : Conducted emission
- 2. Page 16 : Field strength of Fundamental (Radiated)
- 3. Page 17 - 19 : Field strength of Spurious emission (Radiated)
- 4. Page 20 : 26dB Bandwidth

APPENDIX 3: Test instruments

- Page 21 : Test instruments

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Conducted emission



Radiated emission



UL Apex Co., Ltd.

YAMAKITA EMC LAB.

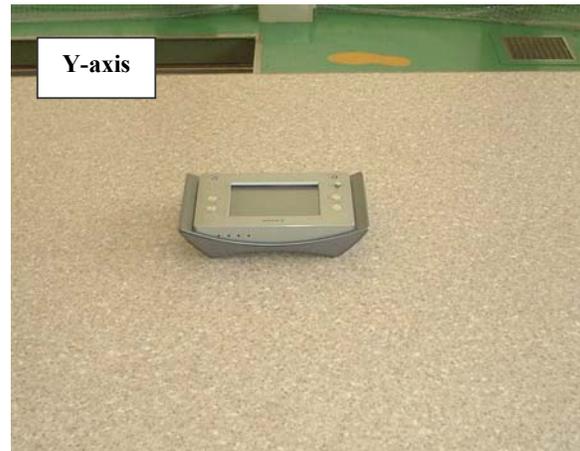
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Pre check of worse-case position



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MF060b(23.04.02)

DATA OF CONDUCTION TEST

UL Apex Co.,Ltd.
Yamakita No.2 Shielded Room
Report No. : 24FE0244-YK-2

Applicant : Sony EMCS Corporation Kisarazu TEC
 Kind of Equipment : Remote Commander
 Model No. : RM-TP100
 Serial No. : A25
 Power : DC3.3V
 Mode : Transmitting
 Remarks : Remote Commander Base Unit Input Power:AC120V/60Hz
 Date : 2/3/2004
 Phase : Single Phase
 Temperature : 23 °C
 Humidity : 37 %
 Regulation : FCC Part15C §15.207

Engineer : *T. Imamura*
Toyokazu Imamura

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 [dBuV]	AV
1.	0.4965	31.6	-	29.3	-	0.1	0.3	0.0	32.0	-	48.0	0.0	16.0	-
2.	0.6177	44.6	-	42.3	-	0.1	0.2	0.0	44.9	-	48.0	0.0	3.1	-
3.	0.7410	39.0	-	38.2	-	0.1	0.2	0.0	39.3	-	48.0	0.0	8.7	-
4.	0.9895	38.3	-	35.9	-	0.1	0.2	0.0	38.6	-	48.0	0.0	9.4	-
5.	1.2375	35.5	-	32.4	-	0.1	0.2	0.0	35.8	-	48.0	0.0	12.2	-
6.	1.6092	32.4	-	31.4	-	0.1	0.2	0.0	32.7	-	48.0	0.0	15.3	-

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

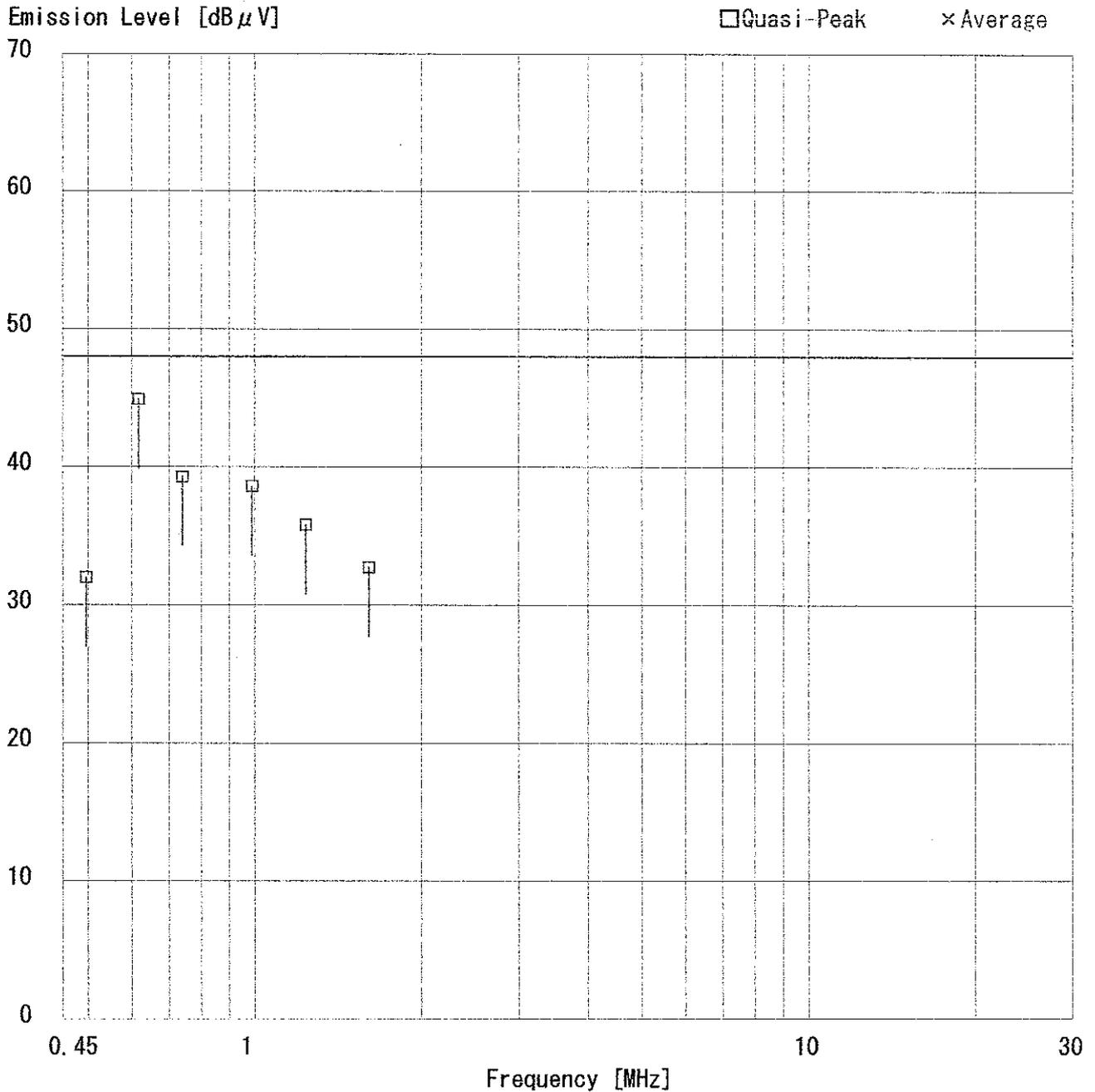
■ LISN : KLS-01 (NSLK8126) ■ COAXIAL CABLE : KCC-33/34
 ■ EMI RECEIVER : KTR-01 (ES140)

DATA OF CONDUCTION TEST

UL Apex Co.,Ltd.
Yamakita No.2 Shielded Room
Report No. : 24FE0244-YK-2

Applicant : Sony EMCS Corporation Kisarazu TEC
Kind of Equipment : Remote Commander
Model No. : RM-TP100
Serial No. : A25
Power : DC3.3V
Mode : Transmitting
Remarks : Remote Commander Base Unit Input Power: AC120V/60Hz
Date : 2/3/2004
Phase : Single Phase
Temperature : 23 °C
Humidity : 37 %
Regulation : FCC Part15C § 15.207

Engineer : *T. Imamura*
Toyokazu Imamura



DATA OF CONDUCTION TEST CHART

UL Apex Co.,Ltd.

Yamakita No.2 Shielded Room

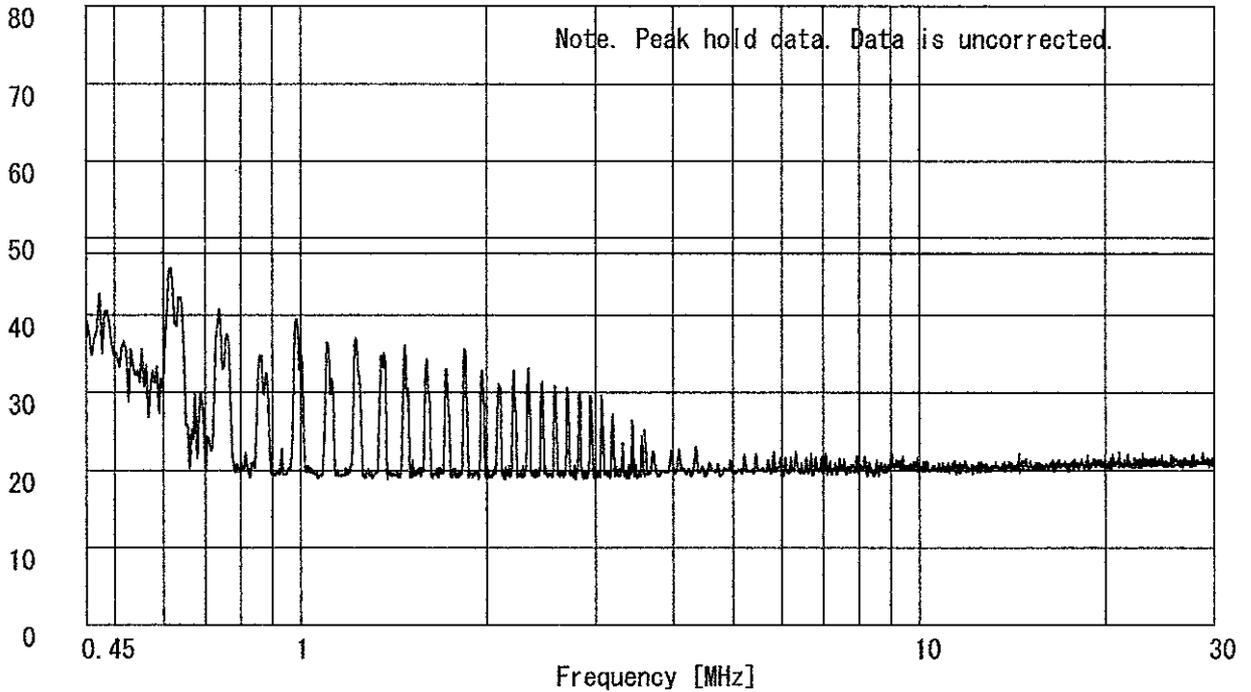
Report No. : 24FE0244-YK-2

Applicant : Sony EMCS Corporation Kisarazu TEC
Kind of Equipment : Remote Commander
Model No. : RM-TP100
Serial No. : A25
Power : DC3.3V
Mode : Transmitting
Remarks : Remote Commander Base Unit Input Power:AC120V/60Hz
Date : 2/3/2004
Temperature : 23 °C
Humidity : 37 %
Regulation 1 : FCC Part15C §15.207
Regulation 2 : None

Engineer : Toyokazu Imamura *T. Imamura*

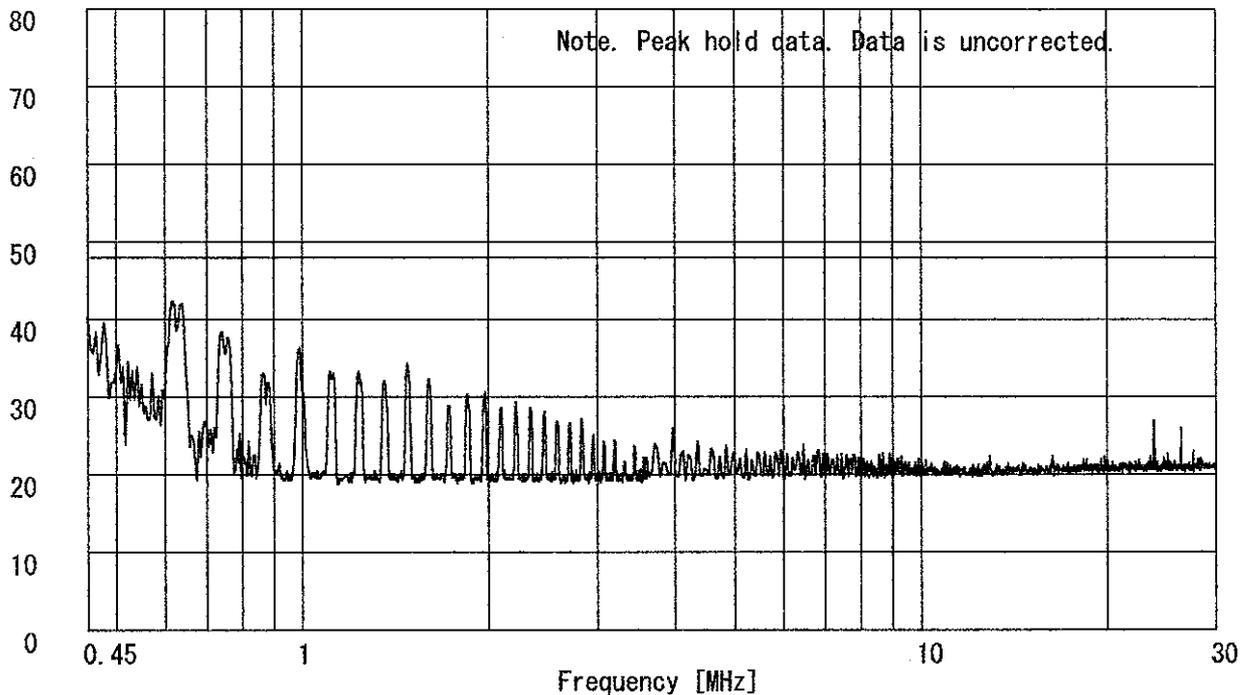
Emission Level [dB μ A]

PHASE:N



Emission Level [dB μ A]

PHASE:L1



DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yamakita No.2 Open Test Site
Report No. : 24FE0244-YK-2

Applicant : Sony EMCS Kisarazu TEC
Kind of Equipment : Remote Commander
Model No. : RM-TP100
Serial No. : A25
Power : DC3.3V
Mode : Transmitting
Remarks :
Date : 2/23/2004
Test Distance : 3 m
Temperature : 21 °C
Humidity : 46 %
Regulation : FCC Part15C § 15.249 (a) Fundamental (D:3m)


Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER [dB/m]					HOR [dB μ V/m]	VER [dB]		HOR [dB]	VER [dB]
1.	916.67	BB	80.9	78.4	22.6	28.7	7.0	5.8	87.6	85.1	93.9	6.3	8.8

CALCULATION: READING[dB μ V] + ANT. FACTOR[dB/m] + CABLE LOSS[dB] - AMP. GAIN[dB] + ATTEN[dB].

■ ANTENNA: KBA-02 (BBA9106) 30-299MHz/KLA-02 (USLP9143) 300-1000MHz
■ AMP: KAF-03 (8447D) ■ RECEIVER: KTR-01 (ES140) ■ CABLE: KCC-20/21/22/23/29

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yamakita No.2 Open Test Site
Report No. : 24FE0244-YK-2

Applicant : Sony EMCS Kisarazu TEC
Kind of Equipment : Remote Commander
Model No. : RM-TP100
Serial No. : A25
Power : DC3.3V
Mode : Transmitting
Remarks :
Date : 2/21/2004
Test Distance : 3 m
Temperature : 21 °C
Humidity : 46 %
Regulation : FCC Part15C § 15.209


Engineer : Toyokazu Imamura

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	33.80	BB	28.4	37.6	17.1	27.9	1.1	5.8	24.5	33.7	40.0	15.5	6.3
2.	36.33	BB	32.3	38.6	16.2	27.9	1.2	5.8	27.6	33.9	40.0	12.4	6.1
3.	43.83	BB	30.0	37.2	13.6	28.0	1.3	5.8	22.7	29.9	40.0	17.3	10.1
4.	53.85	BB	37.2	47.4	10.2	28.0	1.4	5.8	26.6	36.8	40.0	13.4	3.2
5.	56.36	BB	32.1	46.9	9.2	28.0	1.5	5.8	20.6	35.4	40.0	19.4	4.6
6.	60.10	BB	29.8	39.3	7.7	28.0	1.5	5.8	16.8	26.3	40.0	23.2	13.7
7.	160.30	BB	40.3	36.7	14.9	27.7	2.6	5.8	35.9	32.3	43.5	7.6	11.2
8.	320.58	BB	34.9	30.8	16.2	27.5	4.0	5.8	33.4	29.3	46.0	12.6	16.7

CALCULATION: $READING[dB \mu V] + ANT. FACTOR[dB/m] + CABLE LOSS[dB] - AMP. GAIN[dB] + ATTEN[dB]$.

■ ANTENNA: KBA-02 (BBA9106) 30-299MHz/KLA-02 (USLP9143) 300-1000MHz
 ■ AMP: KAF-03 (8447D) ■ RECEIVER: KTR-01 (ESI40) ■ CABLE: KCC-20/21/22/23/29

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yamakita No.2 Open Test Site
Report No. : 24FE0244-YK = 2

Applicant : Sony EMCS Kisarazu TEC
 Kind of Equipment : Remote Commander
 Model No. : RM-TP100
 Serial No. : A25
 Power : DC3.3V
 Mode : Transmitting
 Remarks :
 Date : 2/24/2004
 Test Distance : 3 m
 Temperature : 21 °C
 Humidity : 43 %
 Regulation : FCC Part15C § 15.209 (PK Detection)


 Engineer : Ichiro Isozaki

No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	1833.33	BB	51.6	49.1	27.5	35.0	5.7	0.0	49.8	47.3	74.0	24.2	26.7
2.	2749.95	BB	43.9	42.7	29.4	34.7	6.2	0.0	44.8	43.6	74.0	29.2	30.4
3.	3666.60	BB	40.9	41.6	30.6	34.1	7.2	0.0	44.6	45.3	74.0	29.4	28.7
4.	4583.25	BB	41.8	40.1	32.1	34.2	8.3	0.0	48.0	46.3	74.0	26.0	27.7
5.	5499.90	BB	41.4	41.7	33.5	34.0	8.4	0.0	49.3	49.6	74.0	24.7	24.4
6.	6416.55	BB	43.3	43.3	35.7	34.0	9.1	0.0	54.1	54.1	74.0	19.9	19.9
7.	7333.20	BB	42.4	42.6	37.9	34.2	10.5	0.0	56.6	56.8	74.0	17.4	17.2
8.	8249.85	BB	42.2	42.6	37.8	34.4	11.4	0.0	57.0	57.4	74.0	17.0	16.6
9.	9166.50	BB	41.4	42.3	39.5	34.4	11.8	0.0	58.3	59.2	74.0	15.7	14.8

CALCULATION: READING[dB μ V] + ANT. FACTOR[dB/m] + CABLE LOSS[dB] - AMP. GAIN[dB] + ATTEN[dB].

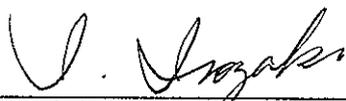
■ ANTENNA: KHA-02 (1-18GHz)

■ AMP: KAF-04 (8449B) ■ RECEIVER: KTR-04 ■ CABLE: KCC-D8/D9/D10

DATA OF RADIATION TEST

UL Apex Co., Ltd.
Yamakita No.2 Open Test Site
Report No. : 24FE0244-YK-2

Applicant : Sony EMCS Kisarazu TEC
Kind of Equipment : Remote Commander
Model No. : RM-TP100
Serial No. : A25
Power : DC3.3V
Mode : Transmitting
Remarks :
Date : 2/24/2004
Test Distance : 3 m
Temperature : 21 °C
Humidity : 43 %
Regulation : FCC Part15C § 15.209(AV Detection)



Engineer : Ichiro Isozaki

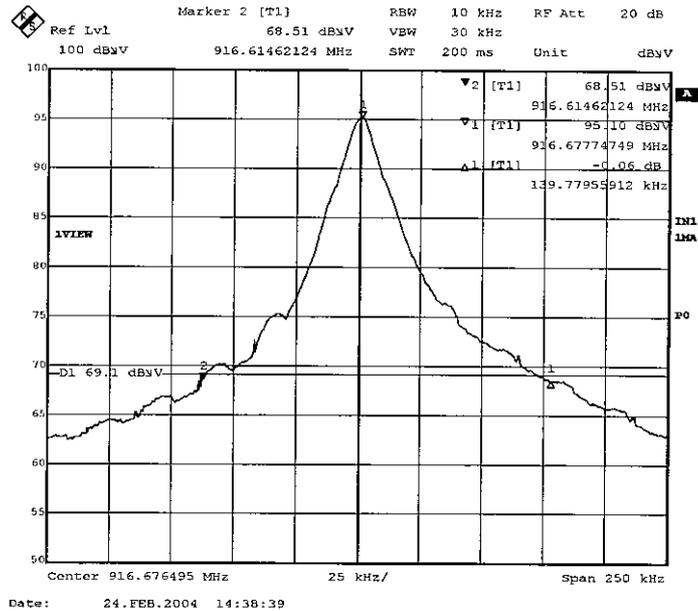
No.	FREQ. [MHz]	ANT TYPE	READING		ANT FACTOR [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	ATTEN. [dB]	RESULT		LIMITS [dB μ V/m]	MARGIN	
			HOR [dB μ V]	VER					HOR [dB μ V/m]	VER		HOR [dB]	VER
1.	1833.33	BB	35.0	34.9	27.5	35.0	5.7	0.0	33.2	33.1	54.0	20.8	20.9
2.	2749.95	BB	31.6	30.6	29.4	34.7	6.2	0.0	32.5	31.5	54.0	21.5	22.5
3.	3666.60	BB	29.7	29.6	30.6	34.1	7.2	0.0	33.4	33.3	54.0	20.6	20.7
4.	4583.25	BB	29.5	29.5	32.1	34.2	8.3	0.0	35.7	35.7	54.0	18.3	18.3
5.	5499.90	BB	30.0	30.0	33.5	34.0	8.4	0.0	37.9	37.9	54.0	16.1	16.1
6.	6416.55	BB	31.6	31.6	35.7	34.0	9.1	0.0	42.4	42.4	54.0	11.6	11.6
7.	7333.20	BB	30.6	30.6	37.9	34.2	10.5	0.0	44.8	44.8	54.0	9.2	9.2
8.	8249.85	BB	30.7	30.7	37.8	34.4	11.4	0.0	45.5	45.5	54.0	8.5	8.5
9.	9166.50	BB	30.7	30.8	39.5	34.4	11.8	0.0	47.6	47.7	54.0	6.4	6.3

CALCULATION: READING[dB μ V] + ANT. FACTOR[dB/m] + CABLE LOSS[dB] - AMP. GAIN[dB] + ATTEN[dB].

■ ANTENNA: KHA-02 (1-18GHz)

■ AMP: KAF-04 (8449B) ■ RECEIVER: KTR-04 ■ CABLE: KCC-D8/D9/D10

T. Jarama



Test Report No :24FE0244-YK-2

APPENDIX 3 Test Instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date: * Interval(month)
KSA-02	Spectrum Analyzer	Advantest	R3265A	RE	2003/11/26 * 12
KTR-01	Test Receiver	Rohde & Schwarz	ES140	RE/BW	2003/07/25 * 12
KAF-03	Pre Amplifier	Hewlett Packard	8447D	RE/BW	2003/09/17 * 12
KAF-04	Pre Amplifier	Agilent	8449B	RE	2003/05/08 * 12
KAT6-03	Attenuator	INMET	18N-6dB	RE/BW	2003/05/12 * 12
KBA-02	Biconical Antenna	Schwarzbeck	BBA9106	RE	2003/08/11 * 12
KLA-02	Logperiodic Antenna	Schwarzbeck	USLP9143	RE/BW	2003/08/11 * 12
KFL-01	Highpass Filter	Hewlett Packard	84300 80038	RE	2003/04/18 * 12
KHA-02	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2003/08/11 * 12
KCC-20/21/22 /23/29	Coaxial Cable	Fujikura/Suhner	8D-2W/12D-SFA/SO 4272B/S04272B	RE/BW	2003/09/19 * 12
KCC-D8/D9/D 10	Coaxial Cable	Astrolab Inc.	32055-2-29080-8M/ 32055-2-29080-5M/ 32081-29094-29081 -40CM	RE	2003/08/12 * 12
KOTS-02	Open Test Site	JSE	10m	RE/BW	2003/08/12 * 12
KCC-33/34	Coaxial Cable	Fujikura/Suhner	5D-2W/S04272B	CE	2004/01/29 * 12
KLS-01	LISN(AMN)	Schwarzbeck	NSLK8126	CE	2003/07/25 * 12
KSA-04	Spectrum Analyzer	Advantest	R3271A	CE	2003/09/17 * 12
KTR-01	Test Receiver	Rohde & Schwarz	ES140	CE	2003/07/25 * 12

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

Test Item:

CE: Conducted emission,
RE: Radiated emission,
BW: 26dB Bandwidth