

## APPENDIX 2: Data of EMI test

### RF Output Power

UL Japan, Inc.  
Head Office EMC Lab. No.2 and No.3 Semi Anechoic Chamber

Company	Sony Corporation	Regulation	FCC 74.861(e)(1) / RSS-123 Section 6.2
Equipment	UHF Synthesized Transmitter		FCC 2.1046
Model	UTX-B2(30)	Test Distance	3m
S/N	8021	Date	March 12, 2008      April 30, 2008
Power	DC 3.0V (Battery)	Temperature	23 deg.C.      25 deg.C.
Mode	Continuous Transmitting, High / Low power	Humidity	34 %      42 %
EUT-axis	H: X-axis, V: Y-axis	Engineer	Kenichi Adachi      Kazufumi Nakai
EUT Height	1.0m		(Radiated)      (Conducted)

#### [Radiated Measurement]

High power

ch.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (ERP) [dBm]		LIMIT [dBm] (ERP)	MARGIN [dB]		Mode	A/C	Remarks
		HOR	VER	HOR	VER				HOR	VER		HOR	VER			
		L	566.125	117.7	113.2				27.0	24.0		1.3	2.2			
M	578.125	117.8	113.5	27.1	24.3	1.4	2.2	10.1	15.7	12.9	23.9	8.2	11.0	Operating	No2	
H	589.875	118.0	113.8	27.3	24.7	1.4	2.2	10.1	15.9	13.3	23.9	8.0	10.6	Operating	No2	

Low power

ch.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (ERP) [dBm]		LIMIT [dBm] (ERP)	MARGIN [dB]		Mode	A/C	Remarks
		HOR	VER	HOR	VER				HOR	VER		HOR	VER			
		L	566.125	109.4	105.6				18.7	16.4		1.3	2.2			
M	578.125	110.2	105.9	19.5	16.7	1.4	2.2	10.1	8.1	5.3	23.9	15.8	18.6	Operating	No2	
H	589.875	110.4	106.1	19.7	17.0	1.4	2.2	10.1	8.3	5.6	23.9	15.6	18.3	Operating	No2	

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss -2.15

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperiodic Antenna(300M-1000MHz), Horn Antenna(1G-12.75GHz)

Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-12.75GHz)

The carrier was measured at each position of all three axes X, Y and Z to compare the level, and the maximum carrier level.

With the result above, the effective radiated power was calculated on the basis of the reference value  
- for the calibration data on the substitution measurement.

\*The test result is round off to one or two decimal places, so some differences might be observed.

Detector : Below 1GHz : T/R AV(BW:120kHz)

#### [Antenna Terminal Conducted Measurement]

High power

Channel	Frequency [MHz]	P/M Reading AV [dBm]	Cable loss [dB]	Atten loss [dB]	Result		Limit		Margin	
					[dBm]	[mW]	[dBm]	[mW]	[dB]	[mW]
L	566.125	4.84	0.54	9.93	15.31	33.96	23.97	250	8.66	216.04
M	578.125	4.85	0.54	9.93	15.32	34.04	23.97	250	8.65	215.96
H	589.875	4.66	0.55	9.93	15.14	32.66	23.97	250	8.83	217.34

Low power

Channel	Frequency [MHz]	P/M Reading AV [dBm]	Cable loss [dB]	Atten loss [dB]	Result		Limit		Margin	
					[dBm]	[mW]	[dBm]	[mW]	[dB]	[mW]
L	566.125	-2.47	0.54	9.93	8.00	6.31	23.97	250	15.97	243.69
M	578.125	-2.61	0.54	9.93	7.86	6.11	23.97	250	16.11	243.89
H	589.875	-2.64	0.55	9.93	7.84	6.08	23.97	250	16.13	243.92

Result = P/M Reading + Cable loss + Atten loss

\*The test result is round off to one or two decimal places, so some differences might be observed.

**UL Japan, Inc.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

## Modulation Characteristics

Company Sony Corporation  
Equipment UHF Synthesized Transmitter  
Model UTX-B2(30)  
S/N 8021  
Power DC 3.0V (Battery)  
Mode Continuous Transmitting 566.125MHz,  
High power

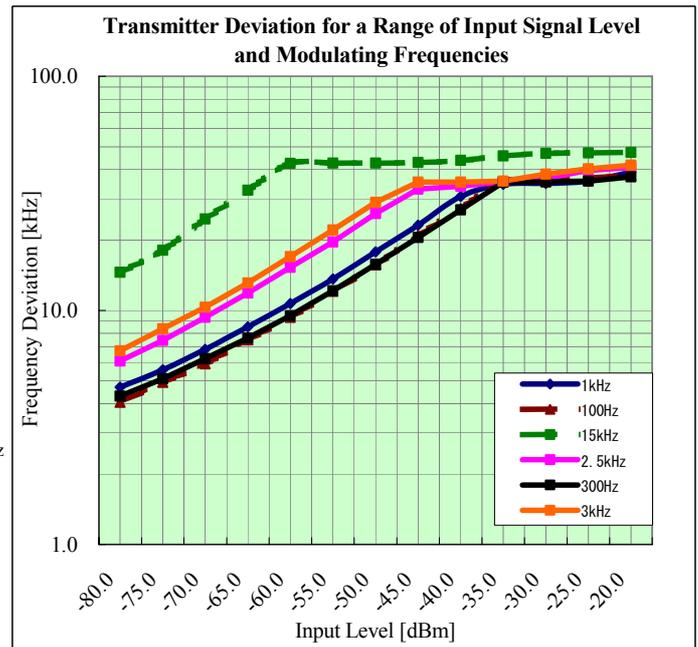
UL Japan, Inc.  
Head Office EMC Lab. No.2 shielded room  
Regulation FCC 74.861(e)(3) / RSS-123 Section 5.5  
FCC 2.1047(b)  
Test Distance -  
Date March 4, 2008  
Temperature 23 deg.C.  
Humidity 30 %  
Engineer Kenichi Adachi

Input [dBV]	Deviation [kHz](PK)					
	100Hz	300Hz	1kHz	2.5kHz	3kHz	15kHz
-80.0	4.05	4.31	4.70	6.08	6.72	14.53
-75.0	4.93	5.11	5.57	7.44	8.34	18.08
-70.0	5.92	6.21	6.81	9.34	10.31	24.57
-65.0	7.49	7.63	8.51	11.87	13.10	32.58
-60.0	9.34	9.50	10.70	15.27	16.97	42.46
-55.0	12.07	12.14	13.64	19.61	22.07	42.54
-50.0	15.67	15.74	17.80	25.91	28.95	42.58
-45.0	20.87	20.47	23.14	32.94	35.31	42.87
-40.0	27.23	26.88	30.71	33.92	35.31	43.68
-35.0	35.63	35.27	34.57	35.52	35.62	45.77
-30.0	35.48	35.41	34.86	36.68	38.26	46.86
-25.0	36.67	35.62	35.62	39.64	40.26	47.09
-20.0	37.78	37.20	39.00	40.79	41.74	47.24
-15.0	43.34	42.79	41.53	42.26	43.00	47.54
-10.0	50.89	49.22	45.11	50.07	50.49	47.77
-5.0	54.67	54.28	51.22	53.24	52.28	47.81
0.0	58.77	57.55	54.70	53.33	52.49	47.61

\* Input Frequency 100Hz, 300Hz, 1kHz, 2.5kHz, 3kHz, 15kHz  
\* Center frequency 566.125 MHz  
\* Measurement setting filter OFF

(Reference data) (for 50% and 85% modulation level)

Input [dBV]	Deviation [kHz](PK)	
	1kHz	2.5kHz
-53.50	14.78	20.24
-47.00	20.12	29.24
-38.50	34.24	34.04
-38.00	34.05	34.97



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## Modulation Characteristics

Company Sony Corporation  
Equipment UHF Synthesized Transmitter  
Model UTX-B2(30)  
S/N 8021  
Power DC 3.0V (Battery)  
Mode Continuous Transmitting 578.125MHz,  
High power

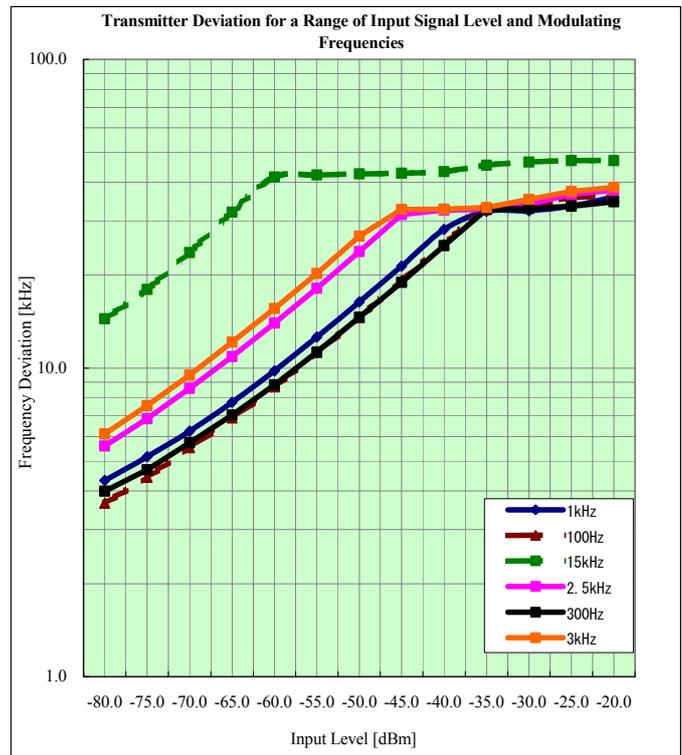
UL Japan, Inc.  
Head Office EMC Lab. No.2 shielded room  
Regulation FCC 74.861(e)(3) / RSS-123 Section 5.5  
FCC 2.1047(b)  
Test Distance -  
Date March 4, 2008  
Temperature 23 deg.C.  
Humidity 30 %  
Engineer Kenichi Adachi

Input [dBV]	Deviation [kHz](PK)					
	100Hz	300Hz	1kHz	2.5kHz	3kHz	15kHz
-80.0	3.65	3.99	4.32	5.59	6.12	14.43
-75.0	4.43	4.69	5.16	6.86	7.55	17.98
-70.0	5.52	5.73	6.24	8.59	9.49	23.67
-65.0	6.89	7.04	7.75	10.88	12.13	31.98
-60.0	8.70	8.82	9.80	13.97	15.60	41.56
-55.0	11.24	11.27	12.60	18.14	20.27	42.24
-50.0	14.58	14.60	16.37	23.84	26.78	42.56
-45.0	19.21	18.94	21.37	31.41	32.68	42.77
-40.0	25.13	24.91	28.14	32.48	32.71	43.28
-35.0	32.69	32.68	32.15	32.68	33.09	45.46
-30.0	33.38	32.88	32.35	33.83	35.20	46.56
-25.0	35.67	33.45	33.48	36.60	37.34	46.98
-20.0	35.78	34.57	35.83	37.70	38.47	47.00
-15.0	41.34	39.52	38.45	39.21	39.84	47.24
-10.0	47.89	45.11	41.74	45.74	47.01	47.27
-5.0	52.67	49.54	47.01	48.90	48.27	47.31
0.0	56.77	52.28	50.70	49.12	48.48	47.51

\* Input Frequency 100Hz, 300Hz, 1kHz, 2.5kHz, 3kHz, 15kHz  
\* Center frequency 578.125 MHz  
\* Measurement setting filter OFF

(Reference data) (for 50% and 85% modulation level)

Input [dBV]	Deviation [kHz](PK)	
	1kHz	2.5kHz
-53.00	13.65	19.98
-46.00	20.21	29.97
-29.50	32.15	34.04
-23.00	34.01	37.12



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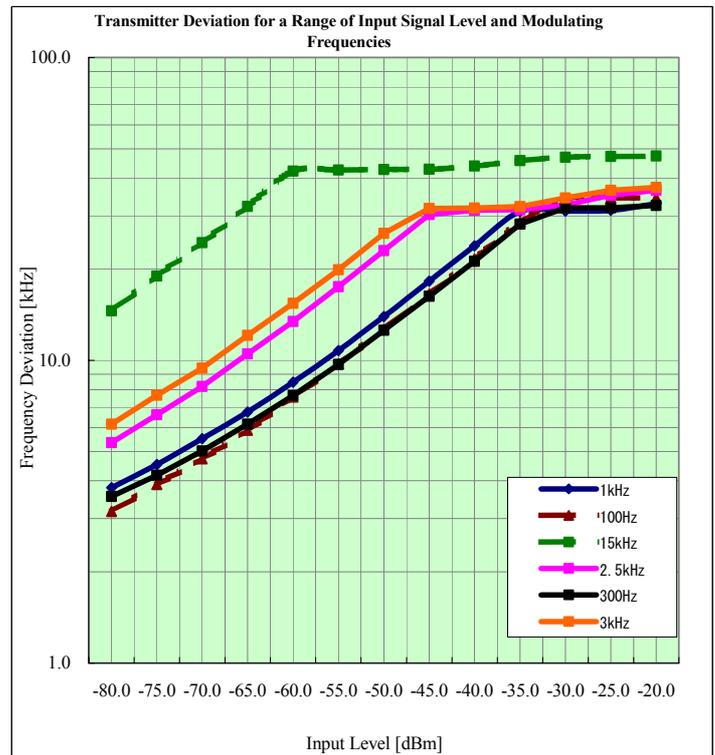
UL Japan, Inc.  
Head Office EMC Lab. No.2 shielded room  
Regulation FCC 74.861(e)(3) / RSS-123 Section 5.5  
FCC 2.1047(b)  
Test Distance -  
Date March 4, 2008  
Temperature 23 deg.C.  
Humidity 30 %  
Engineer Kenichi Adachi

Input [dBV]	Deviation [kHz](PK)					
	100Hz	300Hz	1kHz	2.5kHz	3kHz	15kHz
-80.0	3.17	3.55	3.79	5.35	6.15	14.57
-75.0	3.89	4.17	4.53	6.60	7.67	18.98
-70.0	4.73	5.01	5.51	8.20	9.42	24.47
-65.0	5.87	6.15	6.75	10.50	12.09	32.21
-60.0	7.56	7.65	8.47	13.43	15.42	42.14
-55.0	9.72	9.70	10.77	17.50	19.89	42.57
-50.0	12.66	12.58	13.94	23.01	26.28	42.67
-45.0	16.54	16.27	18.24	30.28	31.71	42.78
-40.0	21.62	21.21	23.88	31.31	31.85	43.78
-35.0	28.62	28.14	31.05	31.41	32.15	45.67
-30.0	34.24	31.88	31.16	32.55	34.35	46.89
-25.0	34.34	31.88	31.31	35.10	36.45	47.11
-20.0	34.34	32.48	32.92	36.47	37.20	47.25
-15.0	36.78	35.94	36.04	37.52	38.78	47.24
-10.0	46.78	41.10	38.47	44.48	45.43	47.21
-5.0	53.67	45.95	41.84	47.11	47.01	47.24
0.0	57.46	49.12	48.78	47.53	46.80	47.56

\* Input Frequency 100Hz, 300Hz, 1kHz, 2.5kHz, 3kHz, 15kHz  
\* Center frequency 589.875 MHz  
\* Measurement setting filter OFF

(Reference data) (for 50% and 85% modulation level)

Input [dBV]	Deviation [kHz](PK)	
	1kHz	2.5kHz
-52.50	12.33	20.01
-42.00	20.24	30.89
-28.00	30.67	33.98
-18.50	34.24	36.56



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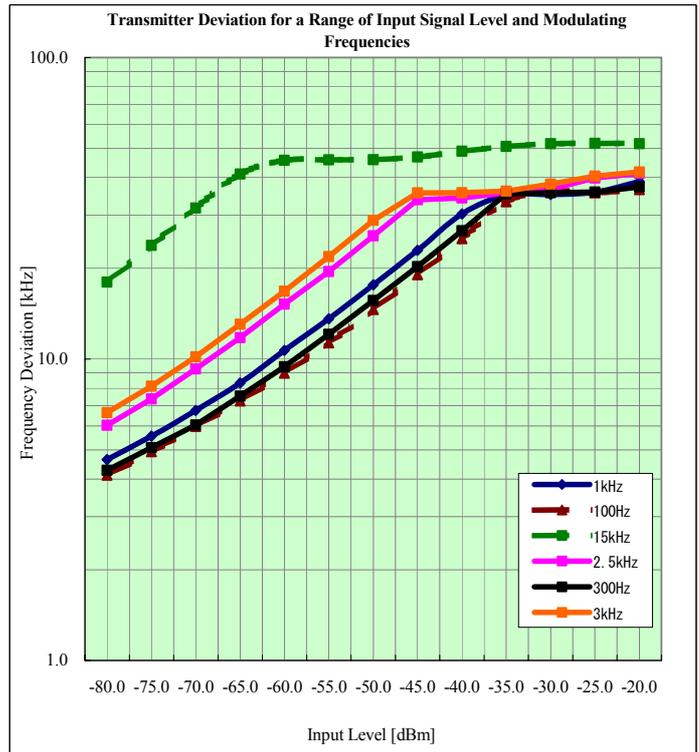
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Head Office EMC Lab. No.2 shielded room  
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FCC 2.1047(b)  
Test Distance -  
Date March 7, 2008  
Temperature 23 deg.C.  
Humidity 30 %  
Engineer Kenichi Adachi

Input [dBV]	Deviation [kHz](PK)					
	100Hz	300Hz	1kHz	2.5kHz	3kHz	15kHz
-80.0	4.12	4.28	4.63	6.03	6.64	18.01
-75.0	4.92	5.09	5.55	7.37	8.12	23.84
-70.0	5.97	6.05	6.75	9.27	10.16	31.67
-65.0	7.26	7.54	8.32	11.77	13.04	41.11
-60.0	8.98	9.44	10.67	15.20	16.80	45.64
-55.0	11.33	12.07	13.60	19.51	21.87	45.74
-50.0	14.61	15.64	17.64	25.61	28.85	45.85
-45.0	19.05	20.27	22.91	33.73	35.52	46.80
-40.0	25.08	26.64	30.29	34.20	35.62	48.91
-35.0	33.27	35.31	34.99	35.52	36.05	50.70
-30.0	36.04	35.62	35.10	36.57	38.05	51.75
-25.0	35.62	35.83	35.73	39.84	40.47	51.86
-20.0	36.47	37.21	38.79	41.32	41.74	51.75
-15.0	41.42	42.90	41.74	42.69	43.32	51.42
-10.0	50.17	49.43	45.11	50.27	51.12	51.42
-5.0	57.92	54.49	51.70	53.23	52.60	51.65
0.0	62.29	57.76	53.97	53.84	52.60	52.38

\* Input Frequency 100Hz, 300Hz, 1kHz, 2.5kHz, 3kHz, 15kHz  
\* Center frequency 566.125 MHz  
\* Measurement setting filter OFF

(Reference data) (for 50% and 85% modulation level)

Input [dBV]	Deviation [kHz](PK)	
	1kHz	2.5kHz
-54.00	14.17	20.12
-46.50	20.15	32.56
-40.50	29.78	34.07
-36.50	34.47	34.89



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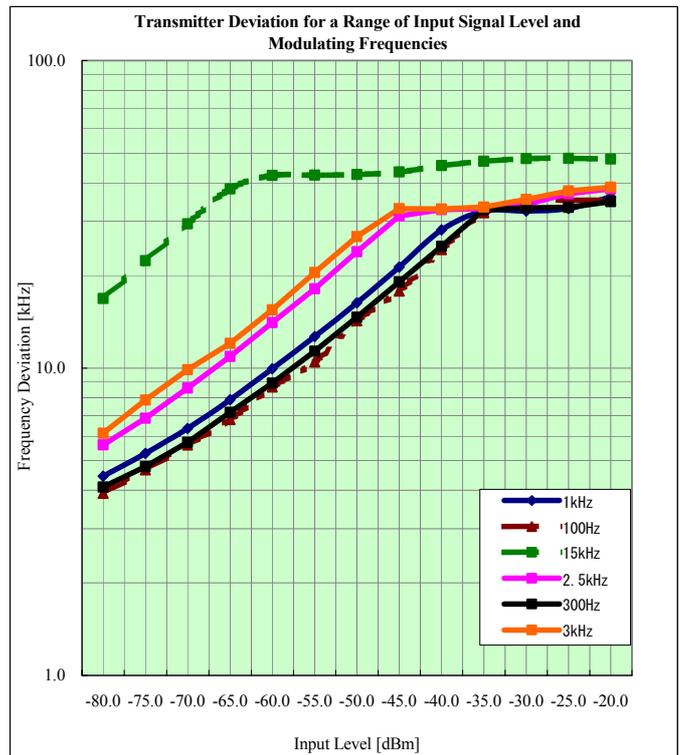
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Test Distance -  
Date March 7, 2008  
Temperature 23 deg.C.  
Humidity 30 %  
Engineer Kenichi Adachi

Input [dBV]	Deviation [kHz](PK)					
	100Hz	300Hz	1kHz	2.5kHz	3kHz	15kHz
-80.0	3.91	4.10	4.44	5.62	6.13	16.81
-75.0	4.67	4.78	5.28	6.87	7.87	22.34
-70.0	5.62	5.73	6.35	8.59	9.88	29.45
-65.0	6.80	7.17	7.88	10.90	12.02	38.26
-60.0	8.67	8.93	9.95	14.04	15.45	42.27
-55.0	10.47	11.34	12.64	18.11	20.44	42.37
-50.0	14.24	14.61	16.27	23.88	26.77	42.58
-45.0	17.78	19.04	21.28	31.22	32.95	43.42
-40.0	24.28	24.88	28.11	32.75	32.90	45.53
-35.0	32.02	32.70	32.32	32.95	33.34	47.01
-30.0	35.10	33.20	32.42	34.04	35.35	47.96
-25.0	35.10	33.31	32.99	36.89	37.67	48.06
-20.0	35.10	34.78	36.05	38.26	38.72	47.84
-15.0	40.05	39.84	38.58	39.52	40.30	47.54
-10.0	48.27	45.64	41.95	46.06	47.22	47.54
-5.0	54.81	49.75	46.80	49.54	48.91	47.97
0.0	59.76	52.49	51.54	49.33	48.38	48.70

\* Input Frequency 100Hz, 300Hz, 1kHz, 2.5kHz, 3kHz, 15kHz  
\* Center frequency 578.125 MHz  
\* Measurement setting filter OFF

(Reference data) (for 50% and 85% modulation level)

Input [dBV]	Deviation [kHz](PK)	
	1kHz	2.5kHz
-52.50	14.56	20.43
-46.00	20.48	30.23
-30.00	32.42	34.04
-21.00	34.28	36.89



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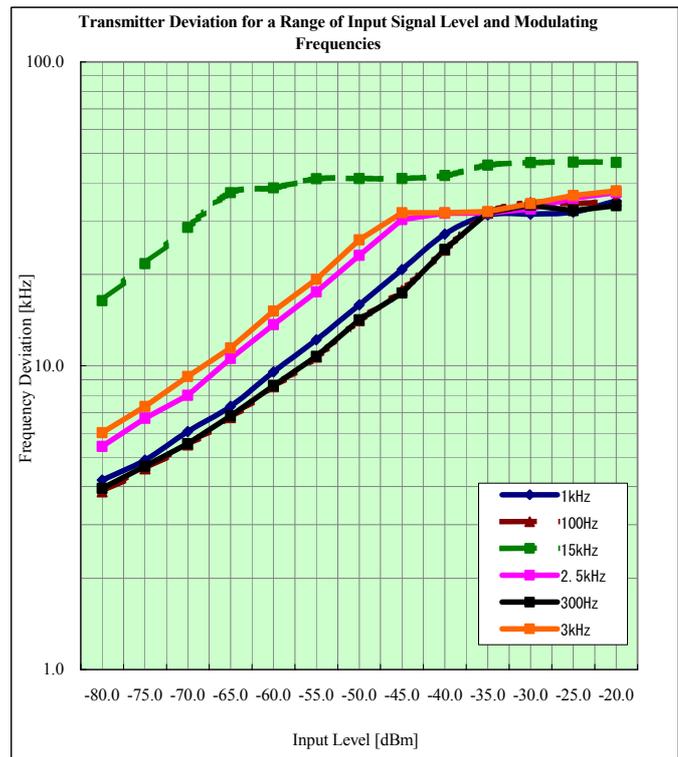
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Test Distance -  
Date March 7, 2008  
Temperature 23 deg.C.  
Humidity 30 %  
Engineer Kenichi Adachi

Input [dBV]	Deviation [kHz](PK)					
	100Hz	300Hz	1kHz	2.5kHz	3kHz	15kHz
-80.0	3.84	3.95	4.20	5.42	6.01	16.37
-75.0	4.58	4.67	4.89	6.71	7.34	21.68
-70.0	5.49	5.54	6.07	7.99	9.22	28.51
-65.0	6.75	6.84	7.35	10.57	11.45	37.10
-60.0	8.53	8.59	9.54	13.64	15.14	38.50
-55.0	10.67	10.74	12.17	17.51	19.25	41.21
-50.0	14.07	14.14	15.87	23.08	25.95	41.27
-45.0	17.68	17.34	20.74	30.28	31.85	41.32
-40.0	24.01	24.14	27.11	31.75	31.88	42.26
-35.0	31.75	31.88	31.32	31.78	32.15	45.74
-30.0	34.36	33.73	31.52	32.78	34.15	46.59
-25.0	34.15	32.35	32.02	35.62	36.36	46.80
-20.0	34.78	33.62	34.89	37.10	37.63	46.69
-15.0	39.74	38.48	37.10	38.36	39.00	46.06
-10.0	47.64	43.04	40.26	44.80	45.53	46.17
-5.0	54.86	47.75	45.11	47.85	46.78	46.78
0.0	58.92	50.49	49.22	47.75	47.43	47.72

\* Input Frequency 100Hz, 300Hz, 1kHz, 2.5kHz, 3kHz, 15kHz  
\* Center frequency 589.875 MHz  
\* Measurement setting filter OFF

(Reference data) (for 50% and 85% modulation level)

Input [dBV]	Deviation [kHz](PK)	
	1kHz	2.5kHz
-52.00	13.45	20.45
-45.50	20.34	30.11
-27.00	31.76	34.47
-21.50	34.45	36.58



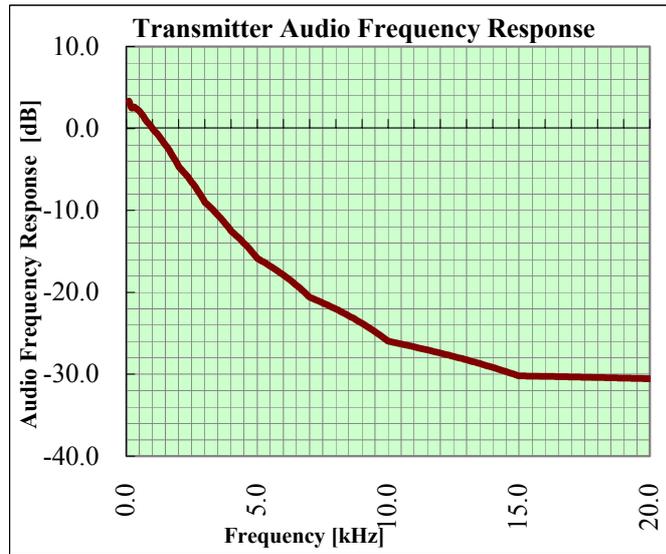
## Audio Frequency Response

Company Sony Corporation  
Equipment UHF Synthesized Transmitter  
Model UTX-B2(30)  
S/N 8021  
Power DC 3.0V (Battery)  
Mode Continuous Transmitting 566.125MHz,  
High power

UL Japan, Inc.  
Head Office EMC Lab. No.2 shielded room  
Regulation FCC 74.861(e)(3),  
FCC 2.1047(a)  
Test Distance -  
Date March 7, 2008  
Temperature 23 deg.C.  
Humidity 30 %  
Engineer Kenichi Adachi

Transmitting 566.125MHz, High power

Frequency [kHz]	50% Modulation Input level [mV]	Audio Response [dB]
0.1	10.8230	3.3459
0.2	9.8680	2.5435
0.3	9.9810	2.6424
0.5	9.4480	2.1657
0.7	8.4640	1.2104
1.0	7.3630	0.0000
2.0	4.3220	-4.6274
3.0	2.6159	-8.9887
4.0	1.7482	-12.4893
5.0	1.1893	-15.8353
7.0	0.6888	-20.5792
10.0	0.3705	-25.9653
15.0	0.2278	-30.1900
20.0	0.2189	-30.5362



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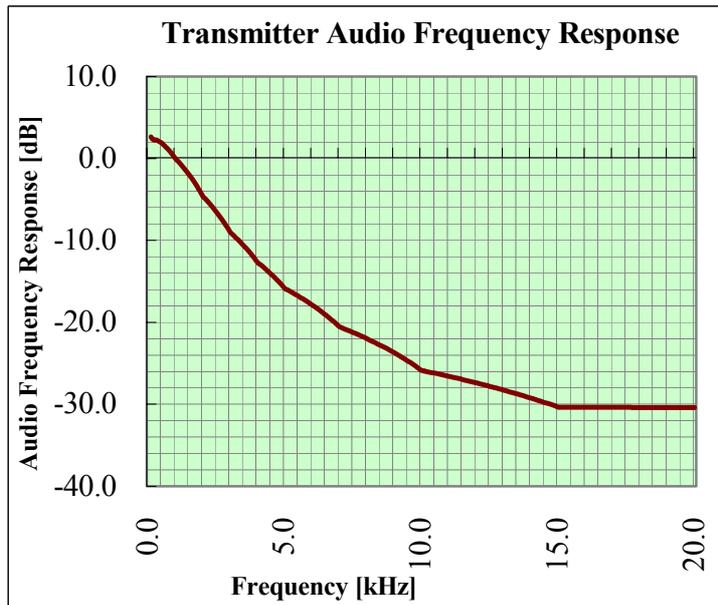
## Audio Frequency Response

Company Sony Corporation  
Equipment UHF Synthesized Transmitter  
Model UTX-B2(30)  
S/N 8021  
Power DC 3.0V (Battery)  
Mode Continuous Transmitting 578.125MHz,  
High power

UL Japan, Inc.  
Head Office EMC Lab. No.2 shielded room  
Regulation FCC 74.861(e)(3),  
FCC 2.1047(a)  
Test Distance -  
Date March 7, 2008  
Temperature 23 deg.C.  
Humidity 30 %  
Engineer Kenichi Adachi

Transmitting 578.125MHz, High power

Frequency [kHz]	50% Modulation Input level [mV]	Audio Response [dB]
0.1	11.6410	2.6440
0.2	11.1180	2.2447
0.3	11.1150	2.2424
0.5	10.6340	1.8581
0.7	9.8970	1.2343
1.0	8.5860	0.0000
2.0	5.0720	-4.5722
3.0	3.0380	-9.0241
4.0	1.9985	-12.6617
5.0	1.3847	-15.8487
7.0	0.8057	-20.5524
10.0	0.4371	-25.8642
15.0	0.2609	-30.3463
20.0	0.2589	-30.4132



**UL Japan, Inc.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

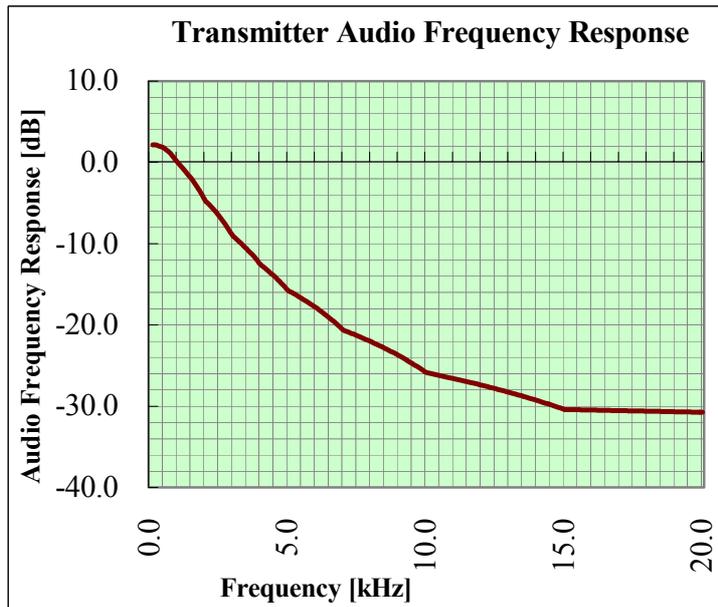
## Audio Frequency Response

Company Sony Corporation  
Equipment UHF Synthesized Transmitter  
Model UTX-B2(30)  
S/N 8021  
Power DC 3.0V (Battery)  
Mode Continuous Transmitting 589.875MHz,  
High power

UL Japan, Inc.  
Head Office EMC Lab. No.2 shielded room  
Regulation FCC 74.861(e)(3),  
FCC 2.1047(a)  
Test Distance -  
Date March 7, 2008  
Temperature 23 deg.C.  
Humidity 30 %  
Engineer Kenichi Adachi

Transmitting 589.875MHz, High power

Frequency [kHz]	50% Modulation Input level [mV]	Audio Response [dB]
0.1	11.9070	2.1399
0.2	11.9040	2.1377
0.3	11.7750	2.0430
0.5	11.4820	1.8242
0.7	10.7090	1.2188
1.0	9.3070	0.0000
2.0	5.4400	-4.6642
3.0	3.2798	-9.0592
4.0	2.1923	-12.5582
5.0	1.5158	-15.7634
7.0	0.8635	-20.6509
10.0	0.4734	-25.8716
15.0	0.2805	-30.4175
20.0	0.2699	-30.7521



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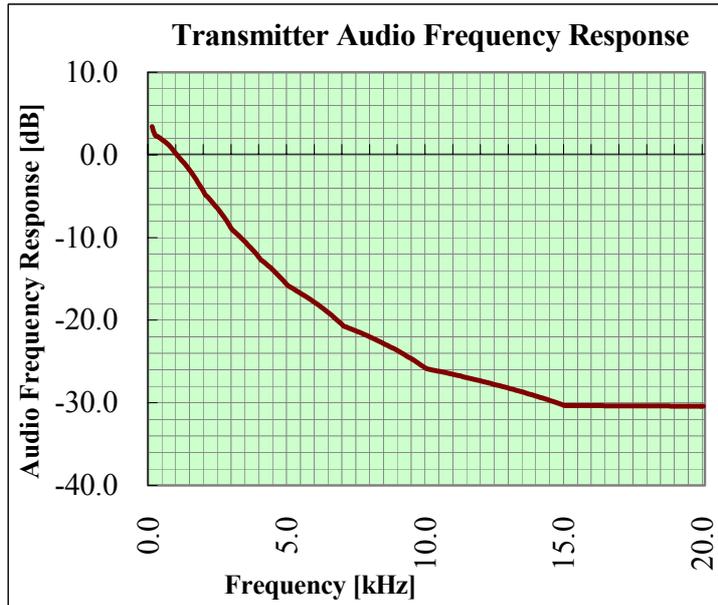
### Audio Frequency Response

Company Sony Corporation  
Equipment UHF Synthesized Transmitter  
Model UTX-B2(30)  
S/N 8021  
Power DC 3.0V (Battery)  
Mode Continuous Transmitting 566.125MHz,  
Low power

UL Japan, Inc.  
Head Office EMC Lab. No.2 shielded room  
Regulation FCC 74.861(e)(3),  
FCC 2.1047(a)  
Test Distance -  
Date March 7, 2008  
Temperature 23 deg.C.  
Humidity 30 %  
Engineer Kenichi Adachi

Transmitting 566.125MHz, Low power

Frequency [kHz]	50% Modulation Input level [mV]	Audio Response [dB]
0.1	10.9330	3.4349
0.2	9.7470	2.4375
0.3	9.5380	2.2492
0.5	9.0160	1.7604
0.7	8.4610	1.2085
1.0	7.3620	0.0000
2.0	4.2710	-4.7293
3.0	2.5853	-9.0897
4.0	1.7293	-12.5825
5.0	1.1888	-15.8377
7.0	0.6807	-20.6808
10.0	0.3746	-25.8686
15.0	0.2242	-30.3272
20.0	0.2222	-30.4050



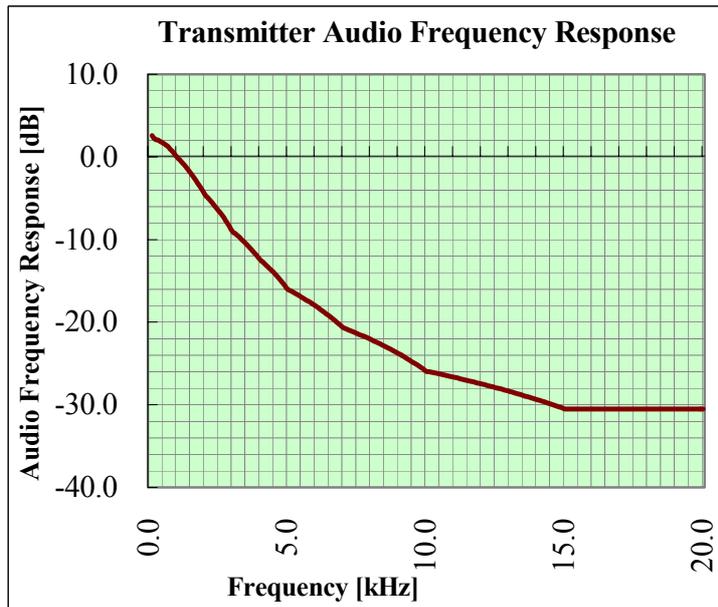
## Audio Frequency Response

Company Sony Corporation  
 Equipment UHF Synthesized Transmitter  
 Model UTX-B2(30)  
 S/N 8021  
 Power DC 3.0V (Battery)  
 Mode Continuous Transmitting 578.125MHz,  
 Low power

UL Japan, Inc.  
 Head Office EMC Lab. No.2 shielded room  
 Regulation FCC 74.861(e)(3),  
 FCC 2.1047(a)  
 Test Distance -  
 Date March 7, 2008  
 Temperature 23 deg.C.  
 Humidity 30 %  
 Engineer Kenichi Adachi

Transmitting 578.125MHz, Low power

Frequency [kHz]	50% Modulation Input level [mV]	Audio Response [dB]
0.1	11.5010	2.5663
0.2	10.9780	2.1620
0.3	10.8510	2.0609
0.5	10.3910	1.6847
0.7	9.7610	1.1414
1.0	8.5590	0.0000
2.0	5.0720	-4.5449
3.0	3.0405	-8.9896
4.0	2.0454	-12.4329
5.0	1.3533	-16.0206
7.0	0.7916	-20.6783
10.0	0.4325	-25.9287
15.0	0.2554	-30.5040
20.0	0.2551	-30.5143



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**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

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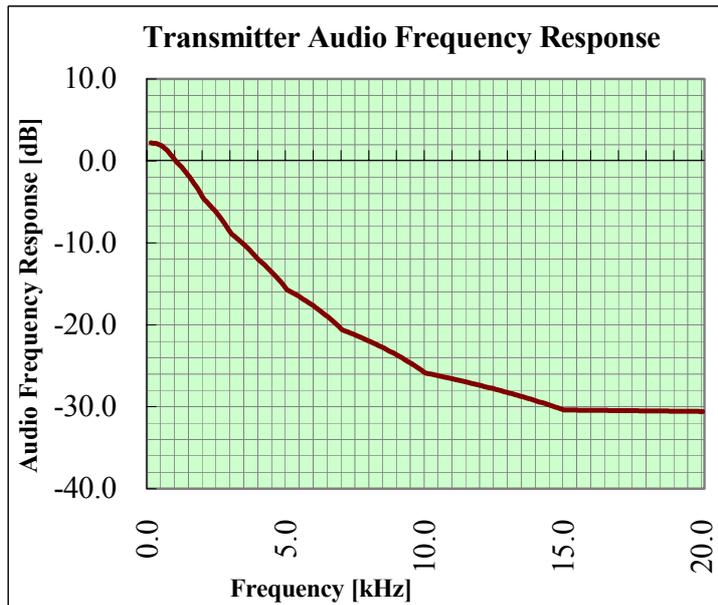
## Audio Frequency Response

Company Sony Corporation  
Equipment UHF Synthesized Transmitter  
Model UTX-B2(30)  
S/N 8021  
Power DC 3.0V (Battery)  
Mode Continuous Transmitting 589.875MHz,  
Low power

UL Japan, Inc.  
Head Office EMC Lab. No.2 shielded room  
Regulation FCC 74.861(e)(3),  
FCC 2.1047(a)  
Test Distance -  
Date March 7, 2008  
Temperature 23 deg.C.  
Humidity 30 %  
Engineer Kenichi Adachi

Transmitting 589.875MHz, Low power

Frequency [kHz]	50% Modulation Input level [mV]	Audio Response [dB]
0.1	11.7610	2.2042
0.2	11.6580	2.1278
0.3	11.6530	2.1241
0.5	11.2600	1.8261
0.7	10.5030	1.2216
1.0	9.1250	0.0000
2.0	5.3780	-4.5922
3.0	3.2780	-8.8925
4.0	2.2598	-12.1233
5.0	1.5000	-15.6828
7.0	0.8501	-20.6153
10.0	0.4631	-25.8912
15.0	0.2754	-30.4054
20.0	0.2701	-30.5742



**UL Japan, Inc.**

**Head Office EMC Lab.**

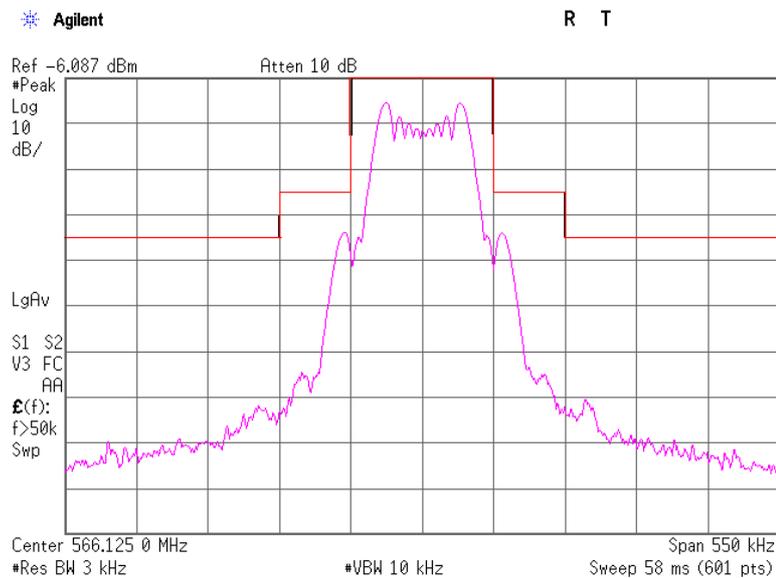
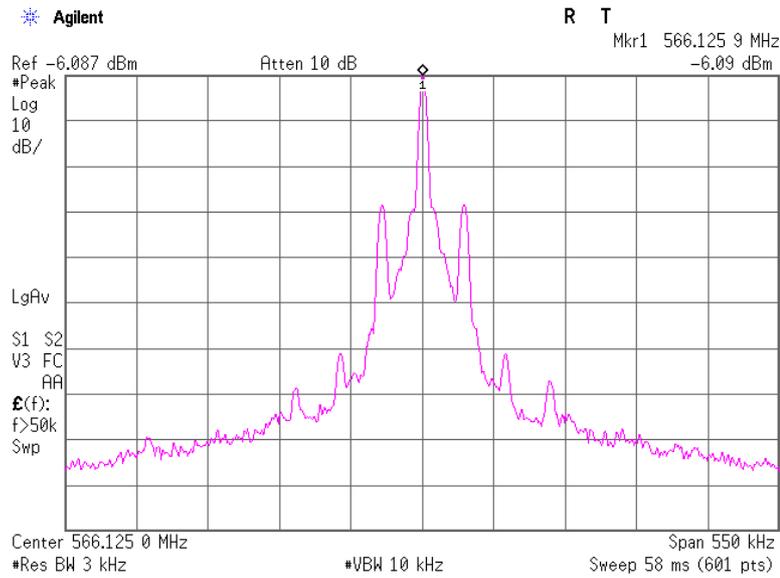
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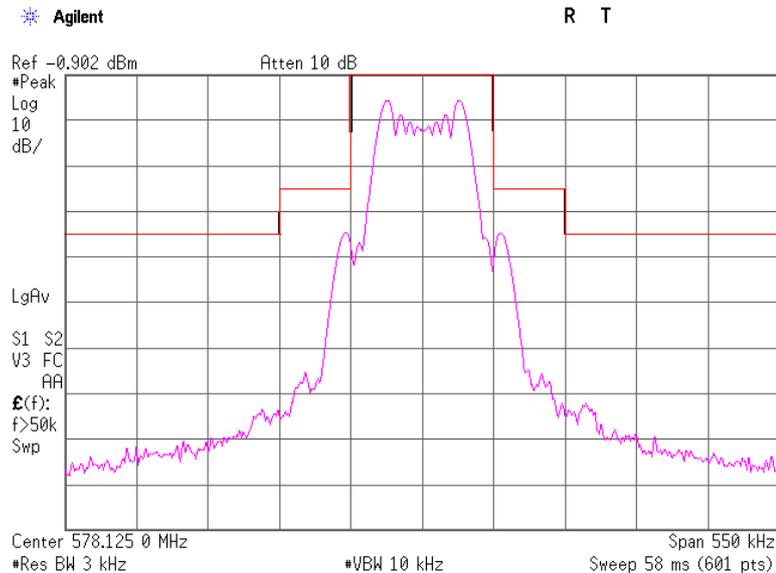
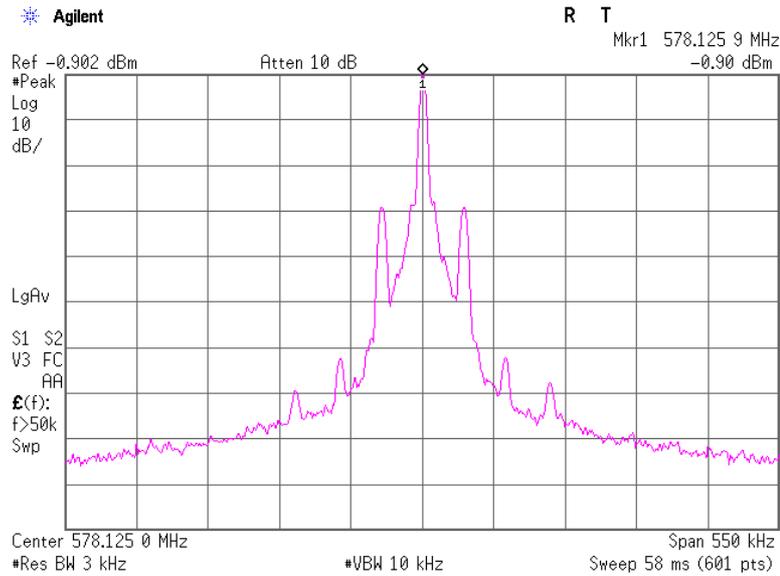
## Emission Bandwidth

	UL Japan, Inc.	
	Head Office EMC Lab. No.2 shielded room	
Company	Sony Corporation	Regulation
Equipment	UHF Synthesized Transmitter	FCC 74.861(e)(6) / RSS-123 Section 6.3
Model	UTX-B2(30)	FCC 2.1049
S/N	8021	Test Distance
Power	DC 3.0V (Battery)	-
Mode	Continuous Transmitting 566.125MHz,	Date
	High power	March 7, 2008
		Temperature
		24 deg.C.
		Humidity
		32 %
		Engineer
		Takahiro Hatakeda
Input audio	-38.5dBV (85% modulation level)	



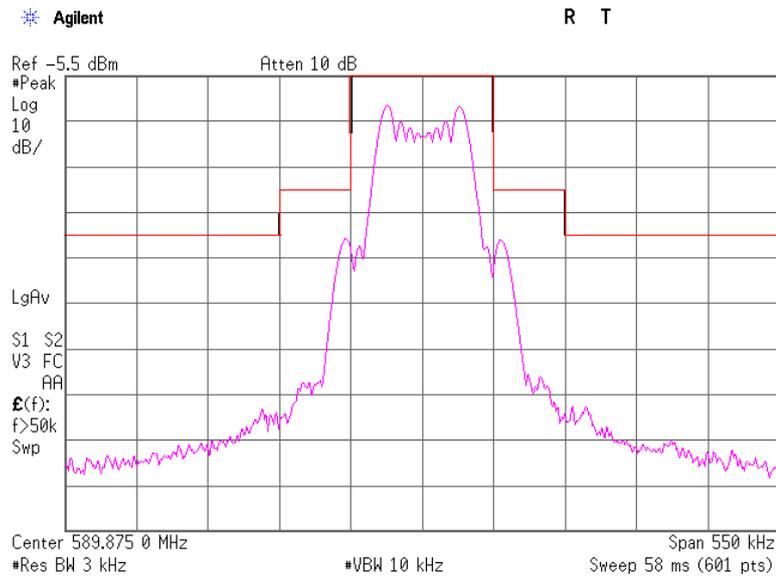
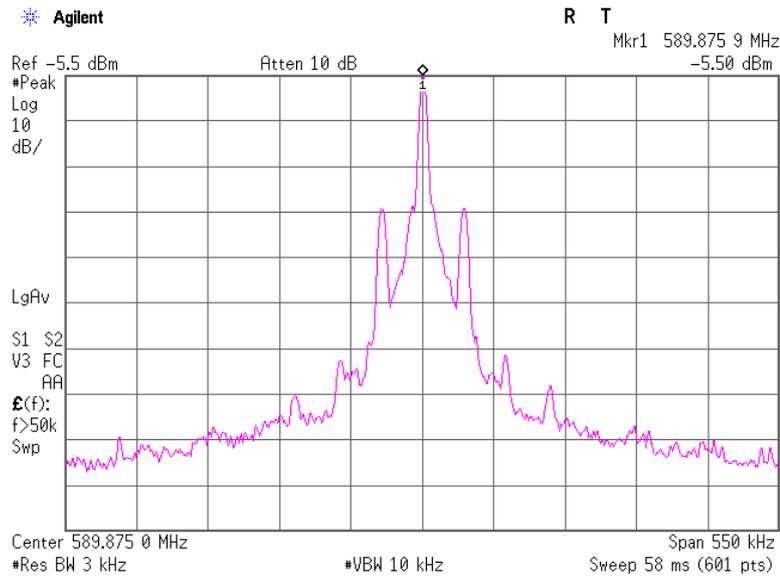
## Emission Bandwidth

	UL Japan, Inc.	
	Head Office EMC Lab. No.2 shielded room	
Company	Sony Corporation	Regulation
Equipment	UHF Synthesized Transmitter	FCC 74.861(e)(6) / RSS-123 Section 6.3
Model	UTX-B2(30)	FCC 2.1049
S/N	8021	Test Distance
Power	DC 3.0V (Battery)	-
Mode	Continuous Transmitting 578.125MHz,	Date
Input audio	High power	March 7, 2008
	-29.5dBV (85% modulation level)	Temperature
		24 deg.C.
		Humidity
		32 %
		Engineer
		Takahiro Hatakeda



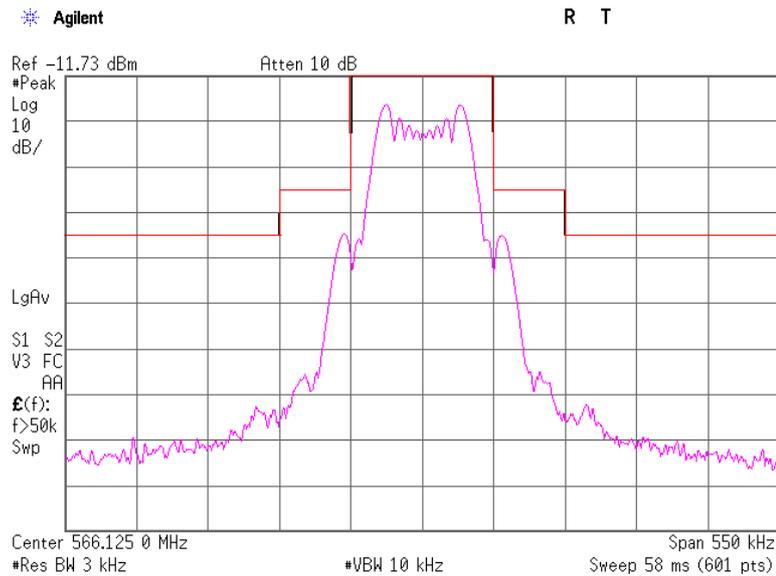
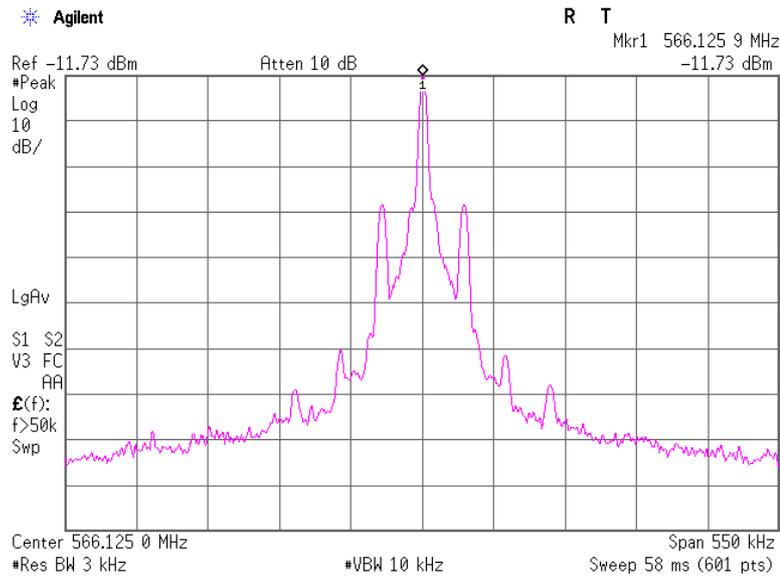
## Emission Bandwidth

	UL Japan, Inc.	
	Head Office EMC Lab. No.2 shielded room	
Company	Sony Corporation	Regulation
Equipment	UHF Synthesized Transmitter	FCC 74.861(e)(6) / RSS-123 Section 6.3
Model	UTX-B2(30)	FCC 2.1049
S/N	8021	Test Distance
Power	DC 3.0V (Battery)	-
Mode	Continuous Transmitting 589.875MHz,	Date
Input audio	High power	March 7, 2008
	-28.0dBV (85% modulation level)	Temperature
		24 deg.C.
		Humidity
		32 %
		Engineer
		Takahiro Hatakeda



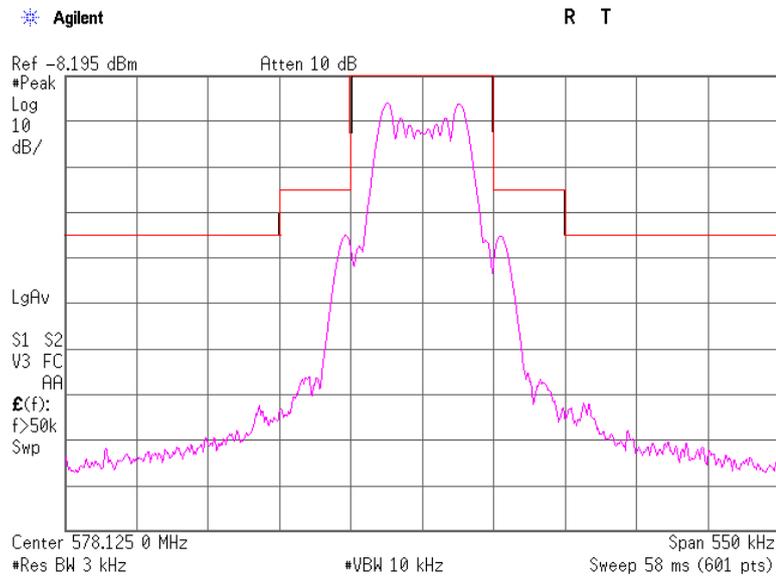
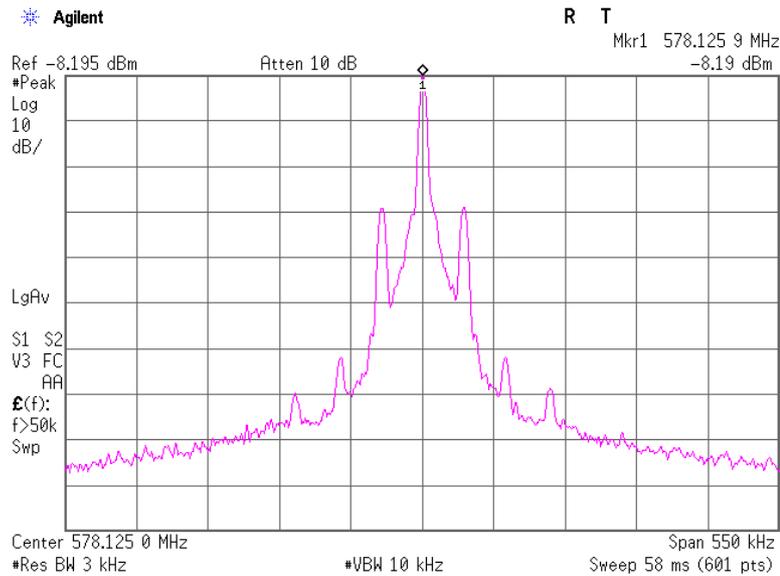
## Emission Bandwidth

	UL Japan, Inc.	
	Head Office EMC Lab. No.2 shielded room	
Company	Sony Corporation	Regulation
Equipment	UHF Synthesized Transmitter	FCC 74.861(e)(6) / RSS-123 Section 6.3
Model	UTX-B2(30)	FCC 2.1049
S/N	8021	Test Distance
Power	DC 3.0V (Battery)	-
Mode	Continuous Transmitting 566.125MHz,	Date
	Low power	March 7, 2008
Input audio	-40.5dBV (85% modulation level)	Temperature
		24 deg.C.
		Humidity
		32 %
		Engineer
		Takahiro Hatakeda



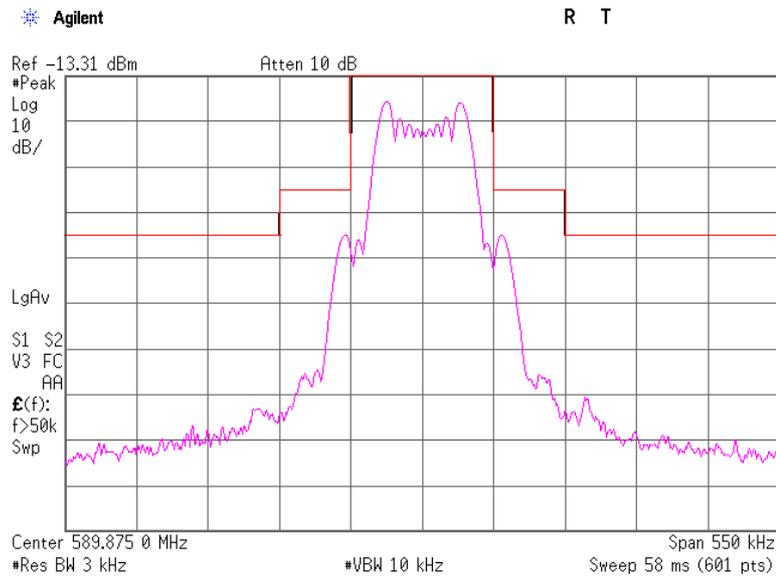
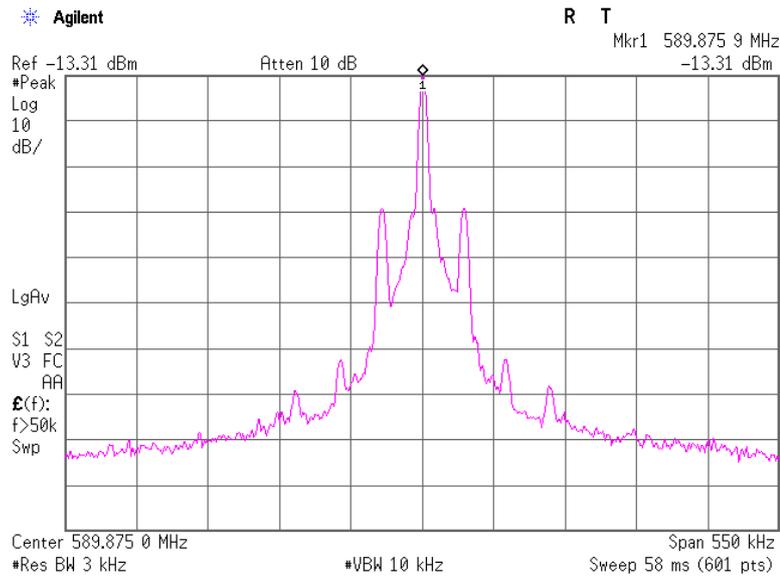
## Emission Bandwidth

	UL Japan, Inc.	
	Head Office EMC Lab. No.2 shielded room	
Company	Sony Corporation	Regulation
Equipment	UHF Synthesized Transmitter	FCC 74.861(e)(6) / RSS-123 Section 6.3
Model	UTX-B2(30)	FCC 2.1049
S/N	8021	Test Distance
Power	DC 3.0V (Battery)	-
Mode	Continuous Transmitting 578.125MHz,	Date
	Low power	March 7, 2008
Input audio	-30.0dBV (85% modulation level)	Temperature
		24 deg.C.
		Humidity
		32 %
		Engineer
		Takahiro Hatakeda



## Emission Bandwidth

	UL Japan, Inc.	
	Head Office EMC Lab. No.2 shielded room	
Company	Sony Corporation	Regulation
Equipment	UHF Synthesized Transmitter	FCC 74.861(e)(6) / RSS-123 Section 6.3
Model	UTX-B2(30)	FCC 2.1049
S/N	8021	Test Distance
Power	DC 3.0V (Battery)	-
Mode	Continuous Transmitting 589.875MHz,	Date
	Low power	March 7, 2008
Input audio	-27.0dBV (85% modulation level)	Temperature
		24 deg.C.
		Humidity
		32 %
		Engineer
		Takahiro Hatakeda



### Spurious Emissions (Radiated) (Transmitting)

		UL Japan, Inc.	
		Head Office EMC Lab. No.3 Semi Anechoic Chamber	
Company	Sony Corporation	Regulation	FCC 74.861(e)(6) / RSS-123 Section 6.3
Equipment	UHF Synthesized Transmitter		FCC 2.1053
Model	UTX-B2(30)	Test Distance	3m
S/N	8021	Date	February 24, 2008
Power	DC 3.0V (Battery)	Temperature	25 deg.C.
Mode	Continuous Transmitting 566.125MHz, High power	Humidity	34 %
EUT-axis	H: X-axis, V: Y-axis	Engineer	Tomotaka Sasagawa
EUT Height	1.0m		

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx	Tx	Tx Ant.	RESULT (ERP) [dBm]		LIMIT	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER	Cable Loss [dB]	Ant. Gain [dBi]	ATT. Loss [dB]	HOR	VER	[dBm] (ERP)	HOR	VER		
1	1132.25	31.3	27.1	-71.5	-76.9	2.9	5.9	0.0	-70.7	-76.1	-13.0	57.7	63.1	Operating	No3
2	1698.38	27.5	27.2	-76.3	-77.2	3.6	8.8	0.0	-73.3	-74.2	-13.0	60.3	61.2	Operating	No3
3	2264.50	28.7	29.3	-75.4	-75.3	4.2	10.6	0.0	-71.2	-71.1	-13.0	58.2	58.1	Operating	No3
4	2830.63	31.1	30.6	-72.6	-73.9	4.8	11.2	0.0	-68.4	-69.7	-13.0	55.4	56.7	Operating	No3
5	3396.75	31.9	32.0	-72.2	-72.3	5.2	12.0	0.0	-67.5	-67.5	-13.0	54.5	54.5	Operating	No3
6	3962.88	33.3	42.6	-71.6	-61.3	5.5	13.0	0.0	-66.2	-56.0	-13.0	53.2	<b>43.0</b>	Operating	No3
7	4529.00	34.5	34.3	-69.1	-69.6	5.9	12.9	0.0	-64.3	-64.7	-13.0	51.3	51.7	Operating	No3
8	5095.13	36.0	35.3	-66.4	-68.4	6.3	12.9	0.0	-62.0	-64.0	-13.0	49.0	51.0	Operating	No3
9	5661.25	36.8	36.6	-65.3	-66.1	6.8	13.3	0.0	-60.9	-61.7	-13.0	47.9	48.7	Operating	No3

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss -2.15

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperiodic Antenna(300M-1000MHz), Horn Antenna(1G-12.75GHz)

Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-12.75GHz)

All other emissions were at least 20dB below the specification limit.

The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.

With the result above, the effective radiated power was calculated on the basis of the reference value  
- for the calibration data on the substitution measurement.

\*The test result is round off to one or two decimal places, so some differences might be observed.

Detector : Below 1GHz : T/R AV(BW:120kHz), Above 1GHz : S/A PK(RBW:1MHz/VBW:10Hz)

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**Head Office EMC Lab.**

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### Spurious Emissions (Radiated) (Transmitting)

	UL Japan, Inc.
	Head Office EMC Lab. No.3 Semi Anechoic Chamber
Company	Sony Corporation
Equipment	UHF Synthesized Transmitter
Model	UTX-B2(30)
S/N	8021
Power	DC 3.0V (Battery)
Mode	Continuous Transmitting 578.125MHz, High power
EUT-axis	H: X-axis, V: Y-axis
EUT Height	1.0m
Regulation	FCC 74.861(e)(6) / RSS-123 Section 6.3 FCC 2.1053
Test Distance	3m
Date	February 24, 2008
Temperature	25 deg.C.
Humidity	34 %
Engineer	Tomotaka Sasagawa

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx	Tx	Tx Ant.	RESULT (ERP) [dBm]		LIMIT	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER	Cable Loss [dB]	Ant. Gain [dBi]	ATT. Loss [dB]	HOR	VER	[dBm] (ERP)	HOR	VER		
1	1156.25	31.2	27.8	-71.7	-76.2	3.0	6.0	0.0	-70.7	-75.3	-13.0	57.7	62.3	Operating	No3
2	1734.38	31.6	30.9	-72.2	-73.5	3.6	9.0	0.0	-69.1	-70.3	-13.0	56.1	57.3	Operating	No3
3	2312.50	29.7	31.2	-74.4	-73.4	4.3	10.6	0.0	-70.2	-69.1	-13.0	57.2	56.1	Operating	No3
4	2890.63	29.8	30.2	-73.9	-74.3	4.8	11.3	0.0	-69.6	-70.0	-13.0	56.6	57.0	Operating	No3
5	3468.75	31.8	31.5	-72.4	-72.7	5.2	12.1	0.0	-67.6	-67.9	-13.0	54.6	54.9	Operating	No3
6	4046.88	33.6	43.5	-71.2	-60.4	5.5	13.0	0.0	-65.9	-55.1	-13.0	52.9	42.1	Operating	No3
7	4625.00	34.7	34.9	-68.7	-69.0	6.0	12.9	0.0	-63.9	-64.2	-13.0	50.9	51.2	Operating	No3
8	5203.13	35.4	35.5	-67.0	-68.0	6.4	13.0	0.0	-62.6	-63.6	-13.0	49.6	50.6	Operating	No3
9	5781.25	36.0	36.5	-66.0	-66.0	6.9	13.4	0.0	-61.7	-61.6	-13.0	48.7	48.6	Operating	No3

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss -2.15  
Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperriodic Antenna(300M-1000MHz), Horn Antenna(1G-12.75GHz)  
Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-12.75GHz)  
All other emissions were at least 20dB below the specification limit.  
The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.  
With the result above, the effective radiated power was calculated on the basis of the reference value  
- for the calibration data on the substitution measurement.

\*The test result is round off to one or two decimal places, so some differences might be observed.  
Detector : Below 1GHz : T/R AV(BW:120kHz), Above 1GHz : S/A PK(RBW:1MHz/VBW:10Hz)

### Spurious Emissions (Radiated) (Transmitting)

	UL Japan, Inc.
	Head Office EMC Lab. No.3 Semi Anechoic Chamber
Company	Sony Corporation
Equipment	UHF Synthesized Transmitter
Model	UTX-B2(30)
S/N	8021
Power	DC 3.0V (Battery)
Mode	Continuous Transmitting 589.875MHz, High power
EUT-axis	H: X-axis, V: Y-axis
EUT Height	1.0m
Regulation	FCC 74.861(e)(6) / RSS-123 Section 6.3 FCC 2.1053
Test Distance	3m
Date	February 24, 2008
Temperature	25 deg.C.
Humidity	34 %
Engineer	Tomotaka Sasagawa

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx	Tx	Tx Ant.	RESULT (ERP) [dBm]		LIMIT	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER	Cable Loss [dB]	Ant. Gain [dBi]	ATT. Loss [dB]	HOR	VER	[dBm] (ERP)	HOR	VER		
1	1179.75	31.2	27.9	-71.7	-76.1	3.0	6.2	0.0	-70.7	-75.1	-13.0	57.7	62.1	Operating	No3
2	1769.63	27.5	27.4	-76.4	-77.0	3.7	9.1	0.0	-73.1	-73.7	-13.0	60.1	60.7	Operating	No3
3	2359.50	29.6	29.5	-74.4	-75.1	4.3	10.7	0.0	-70.2	-70.8	-13.0	57.2	57.8	Operating	No3
4	2949.38	30.3	30.7	-73.3	-73.8	4.9	11.3	0.0	-69.1	-69.5	-13.0	56.1	56.5	Operating	No3
5	3539.25	31.8	31.8	-72.5	-72.4	5.2	12.3	0.0	-67.6	-67.5	-13.0	54.6	54.5	Operating	No3
6	4129.13	33.7	43.8	-70.9	-60.1	5.6	13.0	0.0	-65.6	-54.8	-13.0	52.6	<b>41.8</b>	Operating	No3
7	4719.00	35.4	35.3	-67.8	-68.6	6.0	12.9	0.0	-63.1	-63.9	-13.0	50.1	50.9	Operating	No3
8	5308.88	36.2	36.1	-66.1	-67.2	6.5	13.1	0.0	-61.7	-62.8	-13.0	48.7	49.8	Operating	No3
9	5898.75	37.0	36.7	-65.0	-65.6	7.0	13.5	0.0	-60.6	-61.2	-13.0	47.6	48.2	Operating	No3

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss -2.15  
Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperriodic Antenna(300M-1000MHz), Horn Antenna(1G-12.75GHz)  
Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-12.75GHz)  
All other emissions were at least 20dB below the specification limit.  
The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.  
With the result above, the effective radiated power was calculated on the basis of the reference value  
- for the calibration data on the substitution measurement.

\*The test result is round off to one or two decimal places, so some differences might be observed.  
Detector : Below 1GHz : T/R AV(BW:120kHz), Above 1GHz : S/A PK(RBW:1MHz/VBW:10Hz)

### Spurious Emissions (Radiated) (Transmitting)

	UL Japan, Inc.
	Head Office EMC Lab. No.3 Semi Anechoic Chamber
Company	Sony Corporation
Equipment	UHF Synthesized Transmitter
Model	UTX-B2(30)
S/N	8021
Power	DC 3.0V (Battery)
Mode	Continuous Transmitting 566.125MHz, Low power
EUT-axis	H: X-axis, V: Y-axis
EUT Height	1.0m
Regulation	FCC 74.861(e)(6) / RSS-123 Section 6.3 FCC 2.1053
Test Distance	3m
Date	February 24, 2008
Temperature	25 deg.C.
Humidity	34 %
Engineer	Tomotaka Sasagawa

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx	Tx	Tx Ant.	RESULT (ERP) [dBm]		LIMIT	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER	Cable Loss [dB]	Ant. Gain [dBi]	ATT. Loss [dB]	HOR	VER	[dBm] (ERP)	HOR	VER		
1	1132.25	44.0	42.0	-58.8	-62.0	2.9	5.9	0.0	-58.0	-61.2	-13.0	45.0	48.2	Operating	No3
2	1698.38	30.4	28.4	-73.4	-76.0	3.6	8.8	0.0	-70.4	-73.0	-13.0	57.4	60.0	Operating	No3
3	2264.50	31.3	31.9	-72.8	-72.7	4.2	10.6	0.0	-68.6	-68.5	-13.0	55.6	55.5	Operating	No3
4	2830.63	48.8	32.3	-54.9	-72.2	4.8	11.2	0.0	-50.7	-68.0	-13.0	37.7	55.0	Operating	No3
5	3396.75	31.4	32.1	-72.7	-72.2	5.2	12.0	0.0	-68.0	-67.4	-13.0	55.0	54.4	Operating	No3
6	3962.88	32.4	42.6	-72.5	-61.3	5.5	13.0	0.0	-67.1	-56.0	-13.0	54.1	43.0	Operating	No3
7	4529.00	35.0	35.1	-68.6	-68.8	5.9	12.9	0.0	-63.8	-63.9	-13.0	50.8	50.9	Operating	No3
8	5095.13	35.3	35.6	-67.1	-68.1	6.3	12.9	0.0	-62.7	-63.7	-13.0	49.7	50.7	Operating	No3
9	5661.25	36.3	35.9	-65.8	-66.8	6.8	13.3	0.0	-61.4	-62.4	-13.0	48.4	49.4	Operating	No3

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss -2.15

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperriodic Antenna(300M-1000MHz), Horn Antenna(1G-12.75GHz)

Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-12.75GHz)

All other emissions were at least 20dB below the specification limit.

The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.

With the result above, the effective radiated power was calculated on the basis of the reference value

- for the calibration data on the substitution measurement.

\*The test result is round off to one or two decimal places, so some differences might be observed.

Detector : Below 1GHz : T/R AV(BW:120kHz), Above 1GHz : S/A PK(RBW:1MHz/VBW:10Hz)

**UL Japan, Inc.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

## Spurious Emissions (Radiated) (Transmitting)

	UL Japan, Inc.
	Head Office EMC Lab. No.3 Semi Anechoic Chamber
Company	Sony Corporation
Equipment	UHF Synthesized Transmitter
Model	UTX-B2(30)
S/N	8021
Power	DC 3.0V (Battery)
Mode	Continuous Transmitting 578.125MHz, Low power
EUT-axis	H: X-axis, V: Y-axis
EUT Height	1.0m
Regulation	FCC 74.861(e)(6) / RSS-123 Section 6.3 FCC 2.1053
Test Distance	3m
Date	February 24, 2008
Temperature	25 deg.C.
Humidity	34 %
Engineer	Tomotaka Sasagawa

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx Cable Loss [dB]	Tx Ant. Gain [dBi]	Tx Ant. ATT. Loss [dB]	RESULT (ERP) [dBm]		LIMIT [dBm] (ERP)	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER				HOR	VER		HOR	VER		
		1	1156.25	44.2	40.7				-58.7	-63.3		3.0	6.0		
2	1734.38	28.3	28.9	-75.5	-75.5	3.6	9.0	0.0	-72.4	-72.3	-13.0	59.4	59.3	Operating	No3
3	2312.50	31.6	34.1	-72.5	-70.5	4.3	10.6	0.0	-68.3	-66.2	-13.0	55.3	53.2	Operating	No3
4	2890.63	45.6	50.2	-58.1	-54.3	4.8	11.3	0.0	-53.8	-50.0	-13.0	40.8	37.0	Operating	No3
5	3468.75	31.0	31.5	-73.2	-72.7	5.2	12.1	0.0	-68.4	-67.9	-13.0	55.4	54.9	Operating	No3
6	4046.88	33.2	43.7	-71.6	-60.2	5.5	13.0	0.0	-66.3	-54.9	-13.0	53.3	41.9	Operating	No3
7	4625.00	30.8	45.5	-72.6	-58.4	6.0	12.9	0.0	-67.8	-53.6	-13.0	54.8	40.6	Operating	No3
8	5203.13	35.5	35.4	-66.9	-68.1	6.4	13.0	0.0	-62.5	-63.7	-13.0	49.5	50.7	Operating	No3
9	5781.25	35.7	46.8	-66.3	-55.7	6.9	13.4	0.0	-62.0	-51.3	-13.0	49.0	38.3	Operating	No3

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss -2.15

Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperiodic Antenna(300M-1000MHz), Horn Antenna(1G-12.75GHz)

Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-12.75GHz)

All other emissions were at least 20dB below the specification limit.

The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.

With the result above, the effective radiated power was calculated on the basis of the reference value

- for the calibration data on the substitution measurement.

\*The test result is round off to one or two decimal places, so some differences might be observed.

Detector : Below 1GHz : T/R AV(BW:120kHz), Above 1GHz : S/A PK(RBW:1MHz/VBW:10Hz)

**UL Japan, Inc.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

### Spurious Emissions (Radiated) (Transmitting)

	UL Japan, Inc.
	Head Office EMC Lab. No.3 Semi Anechoic Chamber
Company	Sony Corporation
Equipment	UHF Synthesized Transmitter
Model	UTX-B2(30)
S/N	8021
Power	DC 3.0V (Battery)
Mode	Continuous Transmitting 589.875MHz, Low power
EUT-axis	H: X-axis, V: Y-axis
EUT Height	1.0m
Regulation	FCC 74.861(e)(6) / RSS-123 Section 6.3 FCC 2.1053
Test Distance	3m
Date	February 24, 2008
Temperature	25 deg.C.
Humidity	34 %
Engineer	Tomotaka Sasagawa

No.	Frequency [MHz]	Electric Field Strength (After Factor Calculation) [dBuV/m]		SG Reading [dBm]		Tx	Tx	Tx Ant.	RESULT (ERP) [dBm]		LIMIT	MARGIN [dB]		Mode	A/C
		HOR	VER	HOR	VER	Cable Loss [dB]	Ant. Gain [dBi]	ATT. Loss [dB]	HOR	VER	[dBm] (ERP)	HOR	VER		
1	1179.75	42.1	39.3	-60.8	-64.7	3.0	6.2	0.0	-59.8	-63.7	-13.0	46.8	50.7	Operating	No3
2	1769.63	28.8	28.6	-75.1	-75.8	3.7	9.1	0.0	-71.8	-72.5	-13.0	58.8	59.5	Operating	No3
3	2359.50	30.0	32.0	-74.0	-72.6	4.3	10.7	0.0	-69.8	-68.3	-13.0	56.8	55.3	Operating	No3
4	2949.38	43.3	47.4	-60.3	-57.1	4.9	11.3	0.0	-56.1	-52.8	-13.0	43.1	<b>39.8</b>	Operating	No3
5	3539.25	31.9	32.1	-72.4	-72.1	5.2	12.3	0.0	-67.5	-67.2	-13.0	54.5	54.2	Operating	No3
6	4129.13	33.9	43.8	-70.7	-60.1	5.6	13.0	0.0	-65.4	-54.8	-13.0	52.4	41.8	Operating	No3
7	4719.00	35.0	35.4	-68.2	-68.5	6.0	12.9	0.0	-63.5	-63.8	-13.0	50.5	50.8	Operating	No3
8	5308.88	35.8	36.3	-66.5	-67.0	6.5	13.1	0.0	-62.1	-62.6	-13.0	49.1	49.6	Operating	No3
9	5898.75	37.0	37.0	-65.0	-65.3	7.0	13.5	0.0	-60.6	-60.9	-13.0	47.6	47.9	Operating	No3

CALCULATION RESULT = SG Reading - Tx Loss + Tx Ant. Gain - Tx Ant. ATT. Loss -2.15  
Rx-ANTENNA : Biconical Antenna(30M-300MHz), Logperriodic Antenna(300M-1000MHz), Horn Antenna(1G-12.75GHz)  
Tx-ANTENNA : 120MHz tuned Dipole Antenna(30M-120MHz), Dipole Antenna(120M-1000MHz), Horn Antenna(1G-12.75GHz)  
All other emissions were at least 20dB below the specification limit.  
The noise was measured at each position of all three axes X, Y and Z to compare the level, and the maximum noise.  
With the result above, the effective radiated power was calculated on the basis of the reference value  
- for the calibration data on the substitution measurement.

\*The test result is round off to one or two decimal places, so some differences might be observed.  
Detector : Below 1GHz : T/R AV(BW:120kHz), Above 1GHz : S/A PK(RBW:1MHz/VBW:10Hz)

## Frequency Stability

Company Sony Corporation  
Equipment UHF Synthesized Transmitter  
Model UTX-B2(30)  
S/N 8021  
Power DC 3.0V  
Mode Continuous Transmitting (No Modulation)  
566.125MHz / 578.125MHz / 589.875MHz

UL Japan, Inc.  
Head Office EMC Lab. No.7 Shielded Room  
Regulation FCC74.861 (e) (4) / RSS-123\_7(a)  
Test Distance -  
Date February 29,2008  
Temperature 25 deg.C.  
Humidity 32 %  
Engineer Shinya Watanabe

### 566.125MHz

Test Condition	Measured freq [MHz]	Freq error [MHz]	Result [ppm]	Limit (+/- 0.005%) [+/- ppm]	Margin [ppm]
T max 50deg.C.	566.12491516	-0.00008484	-0.15	50.00	49.85
40deg.C.	566.12562032	0.00062032	1.10	50.00	48.90
30deg.C.	566.12564342	0.00064342	1.14	50.00	48.86
T nom 20deg.C.	566.12602637	0.00102637	1.81	50.00	48.19
10deg.C.	566.12639875	0.00139875	2.47	50.00	47.53
0deg.C.	566.12604384	0.00104384	1.84	50.00	48.16
-10deg.C.	566.12478648	-0.00021352	-0.38	50.00	49.62
-20deg.C.	566.12447364	-0.00052636	-0.93	50.00	49.07
T min -30deg.C.	566.12122443	-0.00377557	-6.67	50.00	43.33

566.125 MHz +/-0.005 % (+/- 50ppm) = +/- 0.028306 MHz

### 578.125MHz

Test Condition	Measured freq [MHz]	Freq error [MHz]	Result [ppm]	Limit (+/- 0.005%) [+/- ppm]	Margin [ppm]
T max 50deg.C.	578.12489520	-0.00010480	-0.18	50.00	49.82
40deg.C.	578.12516601	0.00016601	0.29	50.00	49.71
30deg.C.	578.12551894	0.00051894	0.90	50.00	49.10
T nom 20deg.C.	578.12609984	0.00109984	1.90	50.00	48.10
10deg.C.	578.12653549	0.00153549	2.66	50.00	47.34
0deg.C.	578.12609124	0.00109124	1.89	50.00	48.11
-10deg.C.	578.12531839	0.00031839	0.55	50.00	49.45
-20deg.C.	578.12508401	0.00008401	0.15	50.00	49.85
T min -30deg.C.	578.12133292	-0.00366708	-6.34	50.00	43.66

578.125 MHz +/-0.005 % (+/- 50ppm) = +/- 0.028906 MHz

### 589.875MHz

Test Condition	Measured freq [MHz]	Freq error [MHz]	Result [ppm]	Limit (+/- 0.005%) [+/- ppm]	Margin [ppm]
T max 50deg.C.	589.87489813	-0.00010187	-0.17	50.00	49.83
40deg.C.	589.87519943	0.00019943	0.34	50.00	49.66
30deg.C.	589.87598941	0.00098941	1.68	50.00	48.32
T nom 20deg.C.	589.87650130	0.00150130	2.55	50.00	47.45
10deg.C.	589.87636020	0.00136020	2.31	50.00	47.69
0deg.C.	589.87612630	0.00112630	1.91	50.00	48.09
-10deg.C.	589.87564864	0.00064864	1.10	50.00	48.90
-20deg.C.	589.87506083	0.00006083	0.10	50.00	49.90
T min -30deg.C.	589.87014198	-0.00485802	-8.24	50.00	41.76

589.875 MHz +/-0.005 % (+/-50ppm) = +/- 0.029494 MHz

**UL Japan, Inc.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

## Frequency Stability

Company Sony Corporation  
Equipment UHF Synthesized Transmitter  
Model UTX-B2(30)  
S/N 8021  
Power DC 2.035V (end point)  
Mode Continuous Transmitting (No Modulation)  
566.125MHz / 578.125MHz / 589.875MHz

UL Japan, Inc.  
Head Office EMC Lab. No.7 Shielded Room  
Regulation FCC74.861 (e) (4) / RSS-123\_7(a)  
Test Distance -  
Date March 5, 2008  
Temperature 24 deg.C.  
Humidity 30 %  
Engineer Shinya Watanabe

### 566.125MHz

Test Condition	Measured freq [MHz]	Freq error [MHz]	Result [ppm]	Limit (+/- 0.005%) [+/- ppm]	Margin [ppm]
T max 50deg.C.	566.12425837	-0.00074163	-1.31	50.00	48.69
40deg.C.	566.12481584	-0.00018416	-0.33	50.00	49.67
30deg.C.	566.12545782	0.00045782	0.81	50.00	49.19
T nom 20deg.C.	566.12622618	0.00122618	2.17	50.00	47.83
10deg.C.	566.12657947	0.00157947	2.79	50.00	47.21
0deg.C.	566.12633218	0.00133218	2.35	50.00	47.65
-10deg.C.	566.12479068	-0.00020932	-0.37	50.00	49.63
-20deg.C.	566.12279750	-0.00220250	-3.89	50.00	46.11
T min -30deg.C	566.12168574	-0.00331426	-5.85	50.00	44.15

566.125 MHz +/-0.005 % (+/- 50ppm) = +/- 0.028306 MHz

### 578.125MHz

Test Condition	Measured freq [MHz]	Freq error [MHz]	Result [ppm]	Limit (+/- 0.005%) [+/- ppm]	Margin [ppm]
T max 50deg.C.	578.12432847	-0.00067153	-1.16	50.00	48.84
40deg.C.	578.12478452	-0.00021548	-0.37	50.00	49.63
30deg.C.	578.12549671	0.00049671	0.86	50.00	49.14
T nom 20deg.C.	578.12625304	0.00125304	2.17	50.00	47.83
10deg.C.	578.12660593	0.00160593	2.78	50.00	47.22
0deg.C.	578.12633278	0.00133278	2.31	50.00	47.69
-10deg.C.	578.12497830	-0.00002170	-0.04	50.00	49.96
-20deg.C.	578.12328934	-0.00171066	-2.96	50.00	47.04
T min -30deg.C	578.12170293	-0.00329707	-5.70	50.00	44.30

578.125 MHz +/-0.005 % (+/- 50ppm) = +/- 0.028906 MHz

### 589.875MHz

Test Condition	Measured freq [MHz]	Freq error [MHz]	Result [ppm]	Limit (+/- 0.005%) [+/- ppm]	Margin [ppm]
T max 50deg.C.	589.87429143	-0.00070857	-1.20	50.00	48.80
40deg.C.	589.87473002	-0.00026998	-0.46	50.00	49.54
30deg.C.	589.87552921	0.00052921	0.90	50.00	49.10
T nom 20deg.C.	589.87627491	0.00127491	2.16	50.00	47.84
10deg.C.	589.87664587	0.00164587	2.79	50.00	47.21
0deg.C.	589.87639221	0.00139221	2.36	50.00	47.64
-10deg.C.	589.87528735	0.00028735	0.49	50.00	49.51
-20deg.C.	589.87194438	-0.00305562	-5.18	50.00	44.82
T min -30deg.C	589.87137982	-0.00362018	-6.14	50.00	43.86

589.875 MHz +/-0.005 % (+/-50ppm) = +/- 0.029494 MHz

**UL Japan, Inc.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

## Frequency Stability

Company Sony Corporation  
Equipment UHF Synthesized Transmitter  
Model UTX-B2  
S/N 8021  
Power DC 3.0V / DC 2.55V / DC 3.45V  
Mode Continuous Transmitting (No Modulation)  
566.125MHz / 578.125MHz / 589.875MHz

UL Japan, Inc.  
Head Office EMC Lab. No.7Shielded Room  
Regulation RSS-123\_7(b)  
Test Distance -  
Date 03/09/2008  
Temperature 22 deg.C.  
Humidity 35 %  
Engineer Shinya Watanabe

### 566.125MHz(S/N:8021)

Test Condition	Measured freq [MHz]	Freq error [MHz]	Result [ppm]	Limit (+/- 0.005%) [+/- ppm]	Margin [ppm]
T nom 20deg.C. / Vnom 3.0V	566.12602637	0.00102637	1.81	50.00	48.19
T nom 20deg.C. / Vmin 2.55V	566.12607216	0.00107216	1.89	50.00	48.11
T nom 20deg.C. / Vmax 3.45V	566.12608471	0.00108471	1.92	50.00	48.08

566.125 MHz +/-0.005 % (+/- 50ppm) = +/- 0.028306 MHz

### 578.125MHz(S/N:8021)

Test Condition	Measured freq [MHz]	Freq error [MHz]	Result [ppm]	Limit (+/- 0.005%) [+/- ppm]	Margin [ppm]
T nom 20deg.C. / Vnom 3.0V	578.12609984	0.00109984	1.90	50.00	48.10
T nom 20deg.C. / Vmin 2.55V	578.12596251	0.00096251	1.66	50.00	48.34
T nom 20deg.C. / Vmax 3.45V	578.12595647	0.00095647	1.65	50.00	48.35

578.125 MHz +/-0.005 % (+/- 50ppm) = +/- 0.028906 MHz

### 589.875MHz(S/N:8021)

Test Condition	Measured freq [MHz]	Freq error [MHz]	Result [ppm]	Limit (+/- 0.005%) [+/- ppm]	Margin [ppm]
T nom 20deg.C. / Vnom 3.0V	589.87650130	0.00150130	2.55	50.00	47.45
T nom 20deg.C. / Vmin 2.55V	589.87650611	0.00150611	2.55	50.00	47.45
T nom 20deg.C. / Vnom 3.45V	589.87650321	0.00150321	2.55	50.00	47.45

589.875 MHz +/-0.005 % (+/-50ppm) = +/- 0.029494 MHz

**UL Japan, Inc.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

### APPENDIX 3: Test Instruments

#### EMI test equipment (1 / 2)

Control No.	Instrument	Manufacturer	Model No.	Test Item	Calibration Date * Interval(month)
MAEC-03	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE	2007/03/05 * 12
MBA-03	Biconical Antenna	Schwarzbeck	BBA9106	RE	2008/01/12 * 12
MLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2008/01/12 * 12
MAT-30	Attenuator(6dB)	TME	UFA-01	RE	2007/03/05 * 12
MCC-51	Coaxial cable	UL Japan	-	RE	2007/07/26 * 12
MPA-13	Pre Amplifier	SONOMA INSTRUMENT	310	RE	2007/03/16 * 12
MSA-09	Spectrum Analyzer	Advantest	R3273	RE	2007/12/21 * 12
MTR-06	Test Receiver	Rohde & Schwarz	ESCS30	RE	2007/09/22 * 12
MHA-20	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2007/04/14 * 12
MCC-56	Microwave Cable 1G- 26.5GHz	Suhner	SUCOFLEX104	RE	2007/03/29 * 12
MPA-11	MicroWave System Amplifier	Agilent	83017A	RE	2007/03/02 * 12
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE	-
MOS-12	Thermo-Hygrometer	Custom	CTH-180	RE, AT	2008/01/10 * 12
MJM-06	Measure	PROMART	SEN1955	RE	-
MRENT-63	Audio Analyzer	KENWOOD	VA-2230	MOD	Pre Check
MRS-01	Radiocommunication Service Monitor	Rohde & Schwarz	CMS54	MOD	2008/02/27 * 12
MOS-22	Thermo-Hygrometer	Custom	CTH-201	MOD	2007/12/27 * 12
MCC-12	Coaxial Cable	Fujikura/Agilent	-	RE, MOD	2008/02/15 * 12
MLA-02	Logperiodic Antenna	Schwarzbeck	USLP9143	RE, MOD	2007/10/21 * 12
MUC-01	Universal Counter	Agilent	53132A	FT	2007/05/23 * 12
MCH-01	Temperature and Humidity Chamber	Tabai Spec	PL-2KP	FT	2007/12/27 * 12
MDPS-05	DC Power Supply	KENWOOD TMI	PW8-3ATP	FT	Pre Check
MMM-14	DIGITAL HiTESTER	Hioki	3805	FT	2007/06/07 * 12
MOS-04	Digital Humidity Indicator	N.T	NT-1800	FT	2007/11/12 * 12
MAEC-02	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE	2007/04/02 * 12
MTR-03	Test Receiver	Rohde & Schwarz	ESCI	RE	2007/03/01 * 12

#### **UL Japan, Inc.**

#### **Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

**EMI test equipment (2 / 2)**

Control No.	Instrument	Manufacturer	Model No.	Test Item	Calibration Date * Interval(month)
MRENT-62	Spectrum Analyzer	Agilent	E4448A	RE	2007/11/27 * 12
MPA-09	Pre Amplifier	Agilent	8447D	RE	2007/09/13 * 12
MOS-02	Digital Humidity Indicator	N.T	NT-1800	RE	2007/11/12 * 12
MAT-07	Attenuator(6dB)	Weinschel Corp	2	RE	2007/11/13 * 12
MHF-04	High Pass Filter 1.22-4.6GHz	Mini-Circuit	VHF-1200	RE	2008/02/01 * 12
MJM-05	Measure	PROMART	SEN1955	RE	-
MPM-09	Power Meter	Anritsu	ML2495A	AT	2007/09/22 * 12
MPSE-12	Power sensor	Anritsu	MA2411B	AT	2007/09/22 * 12
MAT-10	Attenuator(10dB)	Weinschel Corp	2	AT	2007/11/14 * 12
MCC-64	Coaxial Cable	TOYO Technica Corporation	-	AT	2008/03/11 * 12

**The expiration date of the calibration is the end of the expired month.**

**All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards. As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.**

**Test Item:**

**MOD : Modulation Characteristics**  
**FT : Frequency Tolerance**  
**RE : Radiated emission (Other tests)**  
**AT : Antenna terminal**

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**UL Japan, Inc.**

**Head Office EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124