

**APPENDIX 2: Data of EMI test**

**Conducted Emission  
11b, Tx, Ch: Low**

**DATA OF CONDUCTED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber  
Date : 2008/12/24

Company	: Sony Computer Entertainment Inc.	Report No.	: 29EE0190-HO-01
Kind of EUT	: PSP	Power	: AC 120V / 60Hz
Model No.	: PSP-3001	Temp./Humi.	: 20deg. C / 40%
Serial No.	: 03-TSP1320H-0000430-PSPXXXX	Engineer	: Kazuya Yoshioka

Mode / Remarks : WLAN 11b Tx 2412MHz 11Mbps

LIMIT : FCC15.207 QP  
FCC15.207 AV

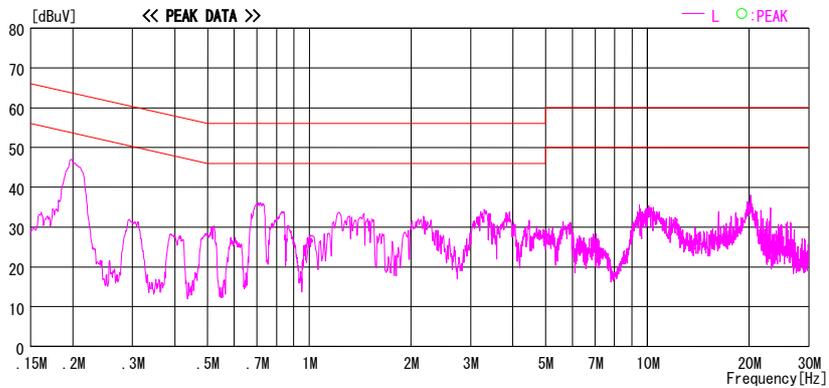
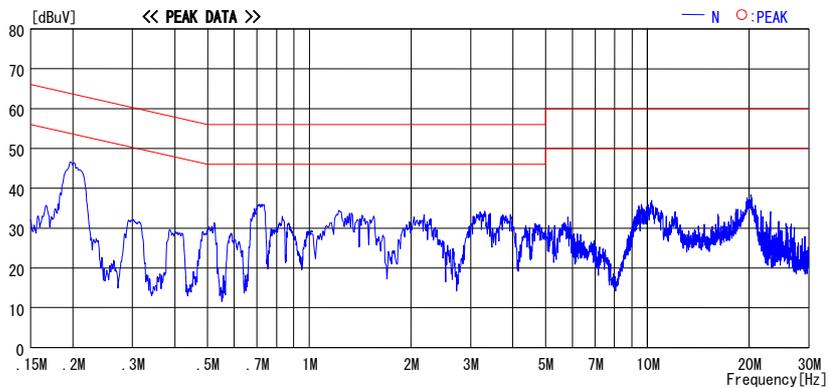


CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT [dBuV]=READING [dBuV]+C. F [dB] (LISN LOSS+CABLE LOSS)  
Except for the above table : adequate margin data below the limits.

## Conducted Emission

### 11b, Tx, Ch: Mid

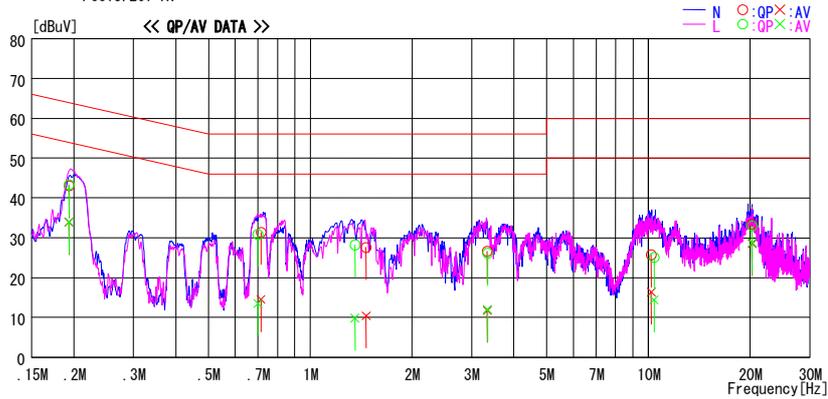
#### DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.4 Semi Anechoic Chamber  
 Date : 2008/12/24

Company : Sony Computer Entertainment Inc.      Report No. : 29EE0190-HO-01  
 Kind of EUT : PSP      Power : AC 120V / 60Hz  
 Model No. : PSP-3001      Temp./Humi. : 20deg. C / 40%  
 Serial No. : 03-TSP1320H-0000430-PSPXXXX      Engineer : Kazuya Yoshioka

Mode / Remarks : WLAN 11b Tx 2437MHz 11Mbps

LIMIT : FCC15.207 QP  
 FCC15.207 AV



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase	Comment
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]		
0.19314	42.9	33.7	0.2	43.1	33.9	63.9	53.9	20.8	20.0	N	
0.71464	31.1	14.2	0.3	31.4	14.5	56.0	46.0	24.6	31.5	N	
1.46266	27.2	10.0	0.4	27.6	10.4	56.0	46.0	28.4	35.6	N	
3.34005	26.1	11.3	0.5	26.6	11.8	56.0	46.0	29.4	34.2	N	
10.19497	24.5	15.2	1.2	25.7	16.4	60.0	50.0	34.3	33.6	N	
20.26077	31.7	26.8	1.7	33.4	28.5	60.0	50.0	26.6	21.5	N	
0.19330	43.1	33.8	0.2	43.3	34.0	63.9	53.9	20.6	19.9	L	
0.69977	30.5	13.2	0.3	30.8	13.5	56.0	46.0	25.2	32.5	L	
1.35613	27.8	9.4	0.4	28.2	9.8	56.0	46.0	27.8	36.2	L	
3.34205	25.6	11.5	0.5	26.1	12.0	56.0	46.0	29.9	34.0	L	
10.39130	23.9	13.2	1.2	25.1	14.4	60.0	50.0	34.9	35.6	L	
20.25787	31.3	27.0	1.7	33.0	28.7	60.0	50.0	27.0	21.3	L	

CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT [dBuV] = READING [dBuV] + C. F [dB] (L ISN LOSS + CABLE LOSS)  
 Except for the above table : adequate margin data below the limits.

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

**Conducted Emission**  
**11b, Tx, Ch: High**

**DATA OF CONDUCTED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No. 4 Semi Anechoic Chamber  
 Date : 2008/12/24

Company	: Sony Computer Entertainment Inc.	Report No.	: 29EE0190-HO-01
Kind of EUT	: PSP	Power	: AC 120V / 60Hz
Model No.	: PSP-3001	Temp./Humi.	: 20deg. C / 40%
Serial No.	: 03-TSP1320H-0000430-PSPXXXX	Engineer	: Kazuya Yoshioka

Mode / Remarks : WLAN 11b Tx 2462MHz 11Mbps

LIMIT : FCC15.207 QP  
FCC15.207 AV

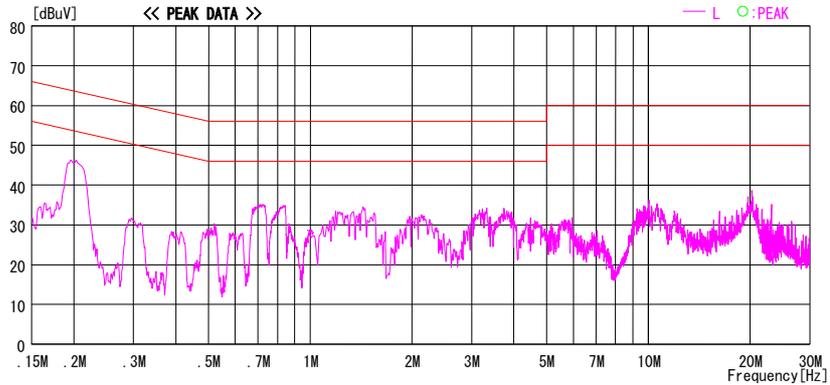
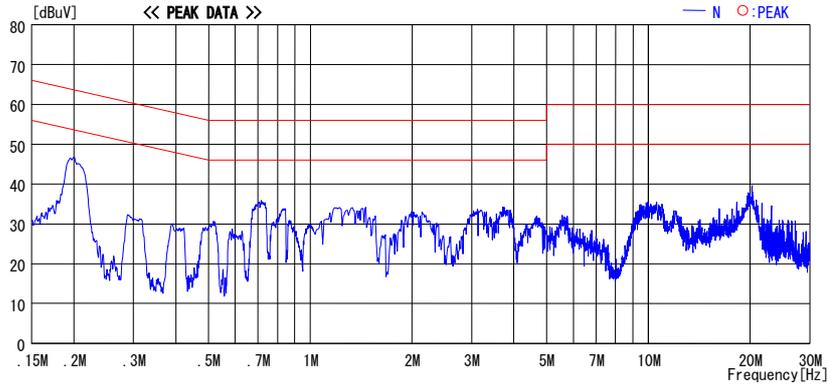


CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT [dBuV]=READING [dBuV]+C. F [dB] (L ISN LOSS+CABLE LOSS)  
 Except for the above table : adequate margin data below the limits.

**Conducted Emission**  
**11b, Rx, Ch: Mid**

**DATA OF CONDUCTED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No. 4 Semi Anechoic Chamber  
 Date : 2008/12/24

Company	: Sony Computer Entertainment Inc.	Report No.	: 29EE0190-HO-01
Kind of EUT	: PSP	Power	: AC 120V / 60Hz
Model No.	: PSP-3001	Temp./Humi.	: 20deg. C / 40%
Serial No.	: 03-TSP1320H-0000430-PSPXXXX	Engineer	: Kazuya Yoshioka

Mode / Remarks : WLAN 11b Rx 2437MHz

LIMIT : FCC15.207 QP  
FCC15.207 AV

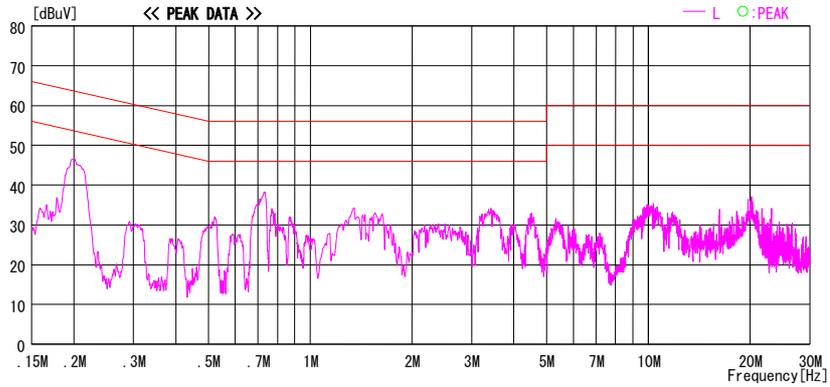
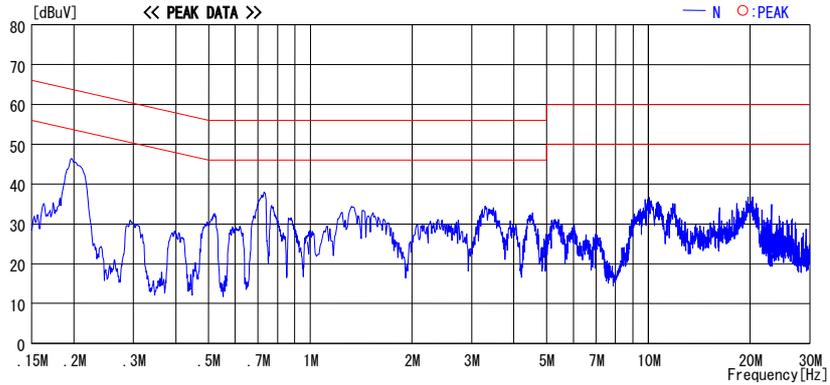


CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT [dBuV] = READING [dBuV] + C. F [dB] (LISN LOSS + CABLE LOSS)  
 Except for the above table : adequate margin data below the limits.

### 6dB Bandwidth

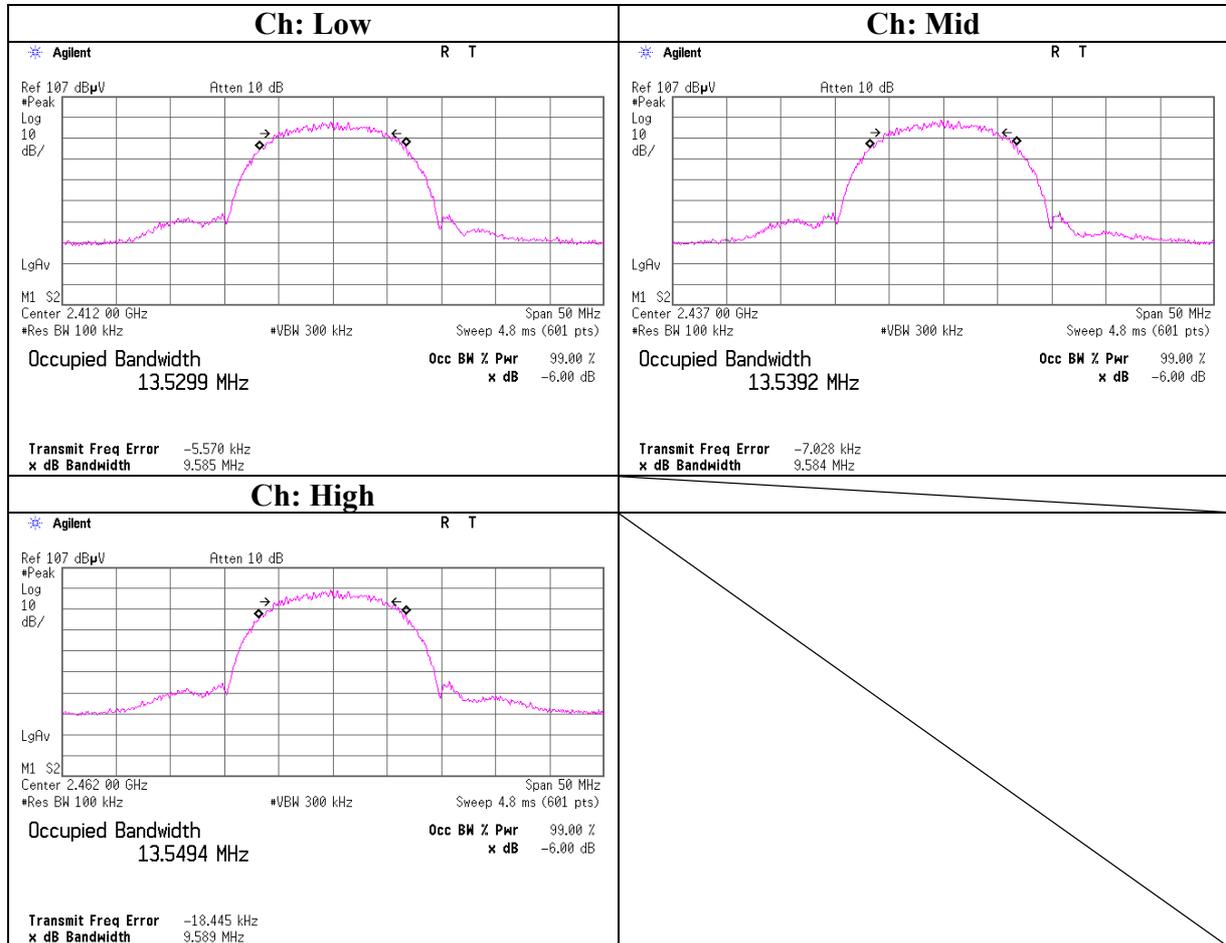
UL Japan, Inc.  
Head Office EMC Lab. No.6 Shielded Room

Company : Sony Computer Entertainment Inc.  
Equipment : PSP  
Model No. : PSP-3001  
Serial No. : 03-TSP1320H-0000467-PSPXXXX  
Power : AC120V/60Hz  
Mode : Tx (Ch L, M, H)

Test Report No. : 29EE0190-HO-01  
Regulation : FCC15.247(a)(2)/RSS-210A8.2(a)  
Test distance : -  
Date : 01/27/2009  
Temperature : 22 deg.C.  
Humidity : 35 %  
Engineer : Takumi Shimada

Ch	Freq. [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
Low	2412.0	9.585	>500
Mid	2437.0	9.584	>500
High	2462.0	9.589	>500

### 6dB Bandwidth



### Maximum Peak Output Power

		UL Japan, Inc	
		Head Office EMC Lab. No.6 Shielded room	
Company	Sony Computer Entertainment Inc.	Regulation	FCC Part15 Subpart C 15.247(b)(3) / RSS-210 A8.4(4)
Equipment	PSP	Test Distance	-
Model	PSP-3001	Date	01/27/2009
S/N	03-TSP1320H-0000467-PSPXXXX	Temperature	22 deg.C.
Power	AC 120V / 60Hz	Humidity	35 %
Mode	11b, Tx, 11Mbps	Engineer	Takumi Shimada

**[IEEE 802.11b]**

Ch	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2412.0	0.45	1.10	9.98	11.53	14.22	30.0	1000	18.47
Mid	2437.0	0.81	1.10	9.98	11.89	15.45	30.0	1000	18.11
High	2462.0	1.23	1.10	9.98	12.31	17.02	30.0	1000	17.69

Sample Calculation:

Result = Reading + Cable Loss (Including customer's cable loss)+ Attenuator

**Rate Pre check**

Freq [MHz]	Rate [Mbps]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
2437	1.0	0.75	1.10	9.98	11.83	15.24	30.0	1000	18.17
2437	2.0	0.78	1.10	9.98	11.86	15.35	30.0	1000	18.14
2437	5.5	0.23	1.10	9.98	11.31	13.52	30.0	1000	18.69
2437	11.0	0.81	1.10	9.98	11.89	15.45	30.0	1000	18.11

Sample Calculation:

Result = Reading + Cable Loss (Including customer's cable loss)+ Attenuator

\*Compared to UL Japan, Test Report No. 29EE0190-HO-01-A for the original model, difference in Maximum Peak Output Power is within +/- 0.5dB.

**Radiated Spurious Emission (below 1GHz)**

**Tx, Ch: Low**

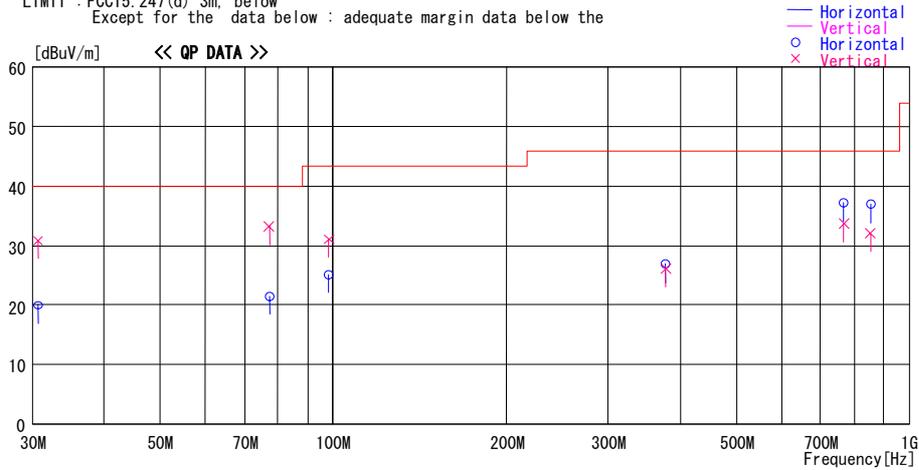
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No. 4 Semi Anechoic Chamber  
Date : 2008/12/23

Company : Sony Computer Entertainment Inc. Report No. : 29EE0190-HO-01  
Kind of EUT : PSP Power : AC120V / 60Hz  
Model No. : PSP-3001 Temp./Humi. : 22deg.C / 37%  
Serial No. : 03-TSP1320H-0000430-PSPXXXX Engineer : Kenichi Adachi

Mode / Remarks: WLAN 11b, Tx 2412MHz, 11Mbps, Worst-axis H:X-axis V:Z-axis

LIMIT : FCC15.247(d) 3m, below  
Except for the data below : adequate margin data below the



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Loss& Gain [dB]						
30.645	26.2	QP	18.6	-24.9	19.9	301	300	Hori.	40.0	20.1
30.645	37.2	QP	18.6	-24.9	30.9	360	100	Vert.	40.0	9.1
77.211	39.2	QP	6.5	-24.2	21.5	209	221	Hori.	40.0	18.5
77.211	51.0	QP	6.5	-24.2	33.3	178	100	Vert.	40.0	6.7
98.505	39.3	QP	9.9	-23.9	25.3	207	298	Hori.	43.5	18.2
98.505	45.1	QP	9.9	-23.9	31.1	98	100	Vert.	43.5	12.4
378.011	31.0	QP	17.6	-21.6	27.0	158	137	Hori.	46.0	19.0
378.010	30.2	QP	17.6	-21.6	26.2	298	100	Vert.	46.0	19.8
767.393	33.7	QP	22.6	-19.1	37.2	15	112	Hori.	46.0	8.8
767.392	30.2	QP	22.6	-19.1	33.7	302	144	Vert.	46.0	12.3
857.668	32.1	QP	23.2	-18.3	37.0	16	203	Hori.	46.0	9.0
857.669	27.2	QP	23.2	-18.3	32.1	325	100	Vert.	46.0	13.9

CHART: WITH FACTOR ANT TYPE: -30MHz: LOOP, 30-300MHz: BICONICAL, 300MHz-1000MHz: LOGPERIODIC, 1000MHz-  
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) -

\*The test result is rounded 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

**Radiated Spurious Emission (below 1GHz)**  
**Tx, Ch: Mid**

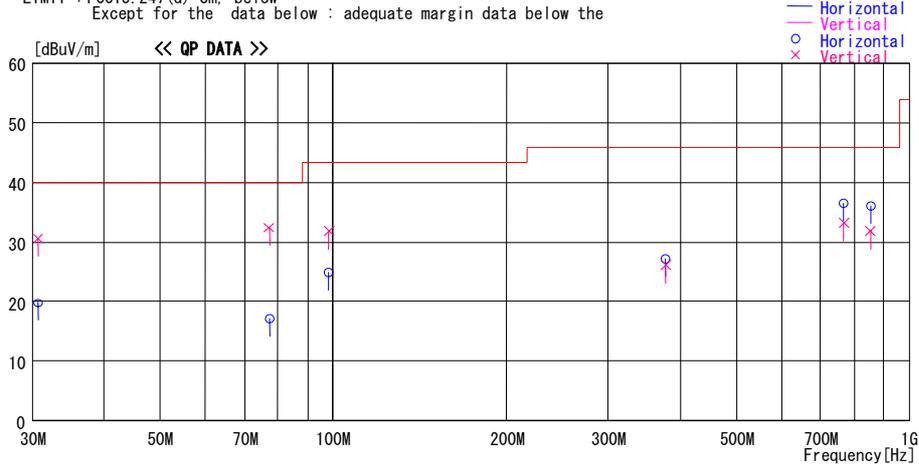
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UL Japan, Inc. Head Office EMC Lab. No. 4 Semi Anechoic Chamber  
Date : 2008/12/23

Company : Sony Computer Entertainment Inc. Report No. : 29EE0190-HO-01  
Kind of EUT : PSP Power : AC120V / 60Hz  
Model No. : PSP-3001 Temp./Humi. : 22deg.C / 37%  
Serial No. : 03-TSP1320H-0000430-PSPXXXX Engineer : Kenichi Adachi

Mode / Remarks: WLAN 11b, Tx 2437MHz, 11Mbps, Worst-axis H:X-axis V:Z-axis

LIMIT : FCC15.247(d) 3m, below  
Except for the data below : adequate margin data below the



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Loss& Gain [dB]						
30.654	26.1	QP	18.6	-24.9	19.8	304	301	Hori.	40.0	20.2
30.654	37.0	QP	18.6	-24.9	30.7	360	100	Vert.	40.0	9.3
77.191	34.8	QP	6.5	-24.2	17.1	211	219	Hori.	40.0	22.9
77.191	50.2	QP	6.5	-24.2	32.5	181	100	Vert.	40.0	7.5
98.518	39.1	QP	9.9	-23.9	25.1	221	299	Hori.	43.5	18.4
98.518	45.9	QP	9.9	-23.9	31.9	96	100	Vert.	43.5	11.6
377.985	31.3	QP	17.6	-21.6	27.3	162	136	Hori.	46.0	18.7
377.985	30.3	QP	17.6	-21.6	26.3	298	100	Vert.	46.0	19.7
767.394	33.1	QP	22.6	-19.1	36.6	11	113	Hori.	46.0	9.4
767.392	29.8	QP	22.6	-19.1	33.3	297	139	Vert.	46.0	12.7
857.677	31.3	QP	23.2	-18.3	36.2	13	197	Hori.	46.0	9.8
857.677	27.1	QP	23.2	-18.3	32.0	330	100	Vert.	46.0	14.0

CHART: WITH FACTOR ANT TYPE: -30MHz: LOOP, 30-300MHz: BICONICAL, 300MHz-1000MHz: LOGPERIODIC, 1000MHz-  
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) -

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

**Radiated Spurious Emission (below 1GHz)**  
**Tx, Ch: High**

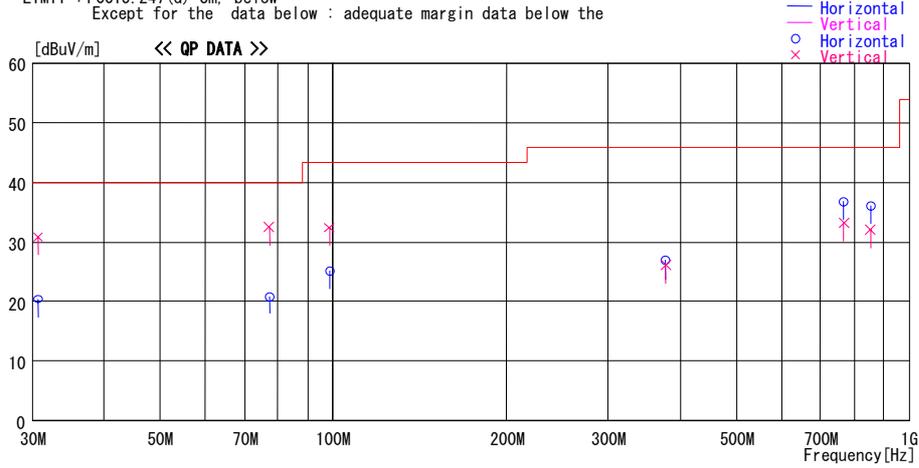
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Kind of EUT : PSP Power : AC120V / 60Hz  
Model No. : PSP-3001 Temp./Humi. : 22deg.C / 37%  
Serial No. : 03-TSP1320H-0000430-PSPXXXX Engineer : Kenichi Adachi

Mode / Remarks: WLAN 11b, Tx 2462MHz, 11Mbps, Worst-axis H:X-axis V:Z-axis

LIMIT : FCC15.247(d) 3m, below  
Except for the data below : adequate margin data below the



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Loss & Gain [dB]						
30.654	26.7	QP	18.6	-24.9	20.4	319	305	Hori.	40.0	19.7
30.654	37.2	QP	18.6	-24.9	30.9	360	100	Vert.	40.0	9.1
77.197	38.6	QP	6.5	-24.2	20.9	198	219	Hori.	40.0	19.1
77.197	50.3	QP	6.5	-24.2	32.6	182	100	Vert.	40.0	7.4
98.617	39.2	QP	9.9	-23.9	25.2	224	309	Hori.	43.5	18.3
98.617	46.5	QP	9.9	-23.9	32.5	103	100	Vert.	43.5	11.0
377.954	31.0	QP	17.6	-21.6	27.0	156	135	Hori.	46.0	19.0
377.954	30.3	QP	17.6	-21.6	26.3	299	100	Vert.	46.0	19.7
767.395	33.4	QP	22.6	-19.1	36.9	11	114	Hori.	46.0	9.1
767.395	29.8	QP	22.6	-19.1	33.3	303	139	Vert.	46.0	12.7
857.681	31.2	QP	23.2	-18.3	36.1	24	201	Hori.	46.0	9.9
857.679	27.3	QP	23.2	-18.3	32.2	322	100	Vert.	46.0	13.8

CHART: WITH FACTOR ANT TYPE: -30MHz: LOOP, 30-300MHz: BICONICAL, 300MHz-1000MHz: LOGPERIODIC, 1000MHz-  
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) -

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

**Radiated Spurious Emission (below 1GHz)**  
**Rx, Ch: Mid**

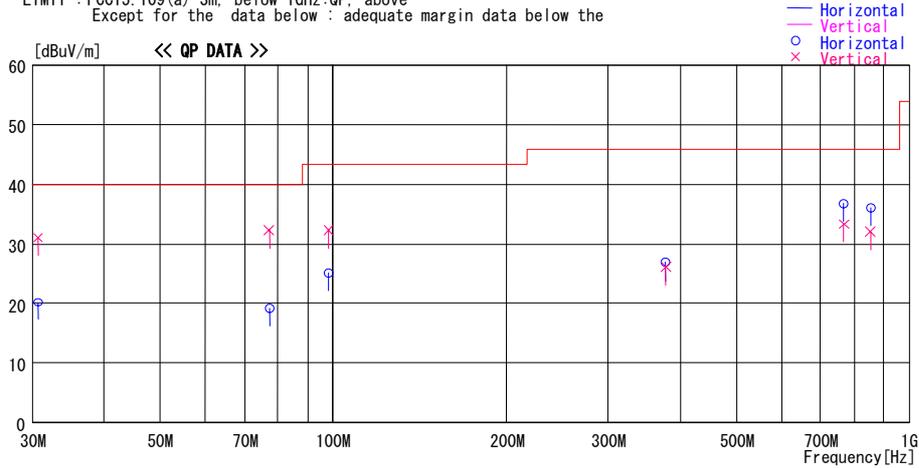
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Kind of EUT : PSP Power : AC120V / 60Hz  
Model No. : PSP-3001 Temp./Humi. : 22deg.C / 37%  
Serial No. : 03-TSP1320H-0000430-PSPXXXX Engineer : Kenichi Adachi

Mode / Remarks: WLAN 11b, Rx 2437MHz, Worst-axis H:X-axis V:Z-axis

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above  
Except for the data below : adequate margin data below the



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Loss&Gain [dB]						
30.641	26.4	QP	18.7	-24.9	20.2	301	304	Hori.	40.0	19.8
30.641	37.3	QP	18.7	-24.9	31.1	360	100	Vert.	40.0	8.9
77.187	36.9	QP	6.5	-24.2	19.2	201	216	Hori.	40.0	20.8
77.187	50.1	QP	6.5	-24.2	32.4	182	100	Vert.	40.0	7.6
98.391	39.2	QP	9.9	-23.9	25.2	210	305	Hori.	43.5	18.3
98.391	46.4	QP	9.9	-23.9	32.4	103	100	Vert.	43.5	11.1
377.996	31.0	QP	17.6	-21.6	27.0	158	134	Hori.	46.0	19.0
377.996	30.3	QP	17.6	-21.6	26.3	299	100	Vert.	46.0	19.7
767.395	33.3	QP	22.6	-19.1	36.8	14	113	Hori.	46.0	9.2
767.395	29.9	QP	22.6	-19.1	33.4	302	145	Vert.	46.0	12.6
857.678	31.2	QP	23.2	-18.3	36.1	21	201	Hori.	46.0	9.9
857.678	27.2	QP	23.2	-18.3	32.1	314	100	Vert.	46.0	13.9

CHART: WITH FACTOR ANT TYPE: -30MHz: LOOP, 30-300MHz: BICONICAL, 300MHz-1000MHz: LOGPERIODIC, 1000MHz-  
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) -

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

**Radiated Spurious Emission (above 1GHz)**

**Tx, Ch: Low**

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company Sony Computer Entertainment Inc.  
Equipment PSP  
Model PSP-3001  
S/N 03-TSP1320H-0000430-PSPXXXX  
Power AC 120V / 60Hz  
Mode 11b, Tx 2412MHz, 11Mbps(Worst),  
Position H: X-axis, V: Z-axis

Regulation FCC15.247(d) / RSS-210 A8.5  
Test Distance 3m (1G-10GHz) / 1m (above 10GHz)  
Date December 22, 2008 December 22, 2008  
Temperature 22 deg.C. 22 deg.C.  
Humidity 41 % 37 %  
Engineer Takumi Shimada Kenichi Adachi  
(below 10GHz) (above 10GHz)

**PK DETECT (RBW: 1MHz, VBW: 1MHz)**

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]					HOR [dB]	VER [dB]		HOR [dB]	VER [dB]
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
1	2390.00	49.9	47.7	27.2	32.2	2.8	0.0	47.7	45.5	73.9	26.2	28.4
2**	2400.00	61.4	58.7	27.2	32.2	2.8	0.0	59.2	56.5	73.9	-	-
3	4824.00	44.0	46.2	31.6	30.9	4.2	1.2	50.0	52.2	73.9	23.9	21.7
4	7236.00	42.3	42.5	36.0	32.0	4.6	1.0	51.9	52.1	73.9	22.0	21.8
5	9648.00	42.0	42.4	38.4	32.4	5.5	1.3	54.8	55.2	73.9	19.1	18.7
<b>Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>												
6	12060.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	14472.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	16884.00	NS	NS	-	-	-	-	-	-	73.9	-	-
9	19296.00	NS	NS	-	-	-	-	-	-	73.9	-	-
10	21708.00	NS	NS	-	-	-	-	-	-	73.9	-	-
11	24120.00	43.0	42.9	38.5	31.0	8.4	0.0	49.4	49.3	73.9	24.5	24.6

\*\* Reference data (Refer to next page(20dBc data sheet))

**AV DETECT (RBW: 1MHz, VBW: 10Hz)**

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]					HOR [dB]	VER [dB]		HOR [dB]	VER [dB]
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
1	2390.00	38.3	35.7	27.2	32.2	2.8	0.0	36.1	33.5	53.9	17.8	20.4
2**	2400.00	51.8	49.0	27.2	32.2	2.8	0.0	49.6	46.8	53.9	-	-
3	4824.00	30.6	33.3	31.6	30.9	4.2	1.2	36.6	39.3	53.9	17.3	14.6
4	7236.00	30.1	30.2	36.0	32.0	4.6	1.0	39.7	39.8	53.9	14.2	14.1
5	9648.00	31.3	31.0	38.4	32.4	5.5	1.3	44.1	43.8	53.9	9.8	10.1
<b>Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>												
6	12060.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	14472.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	16884.00	NS	NS	-	-	-	-	-	-	53.9	-	-
9	19296.00	NS	NS	-	-	-	-	-	-	53.9	-	-
10	21708.00	NS	NS	-	-	-	-	-	-	53.9	-	-
11	24120.00	30.2	30.1	38.5	31.0	8.4	0.0	36.6	36.5	53.9	17.3	17.4

\*\* Reference data (Refer to next page(20dBc data sheet))

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3.0/1.0) = 9.5 dB

\*Except for the above table : All other spurious emissions were less than 20dB for the limit.

\*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

\*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.

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

\*NS: No detect Signal.

**UL Japan, Inc.**

**Head Office EMC Lab.**

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**Radiated Spurious Emission (above 1GHz)**  
**11b, Tx, Ch: Low**

Company	Sony Computer Entertainment Inc.	UL Japan, Inc.
Equipment	PSP	Head Office EMC Lab. No.4 Semi Anechoic Chamber
Model	PSP-3001	Regulation FCC15.247(d) / RSS-210 A8.5
S/N	03-TSP1320H-0000430-PSPXXXX	Test Distance 3m (1G-10GHz) / 1m (above 10GHz)
Power	AC 120V / 60Hz	Date December 22, 2008
Mode	11b, Tx 2412MHz, 11Mbps(Worst),	Temperature 22 deg.C.
Position	H: X-axis, V: Z-axis	Humidity 41 %
		Engineer Takumi Shimada

**20dBc (Fundamental 2412.0 MHz) (RBW: 100kHz, VBW: 300kHz)**

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
<b>Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>												
0	2412.00	99.6	97.3	27.2	32.2	2.8	0.0	97.4	95.1	-	-	-
3	2400.00	52.0	49.7	27.2	32.2	2.8	0.0	49.8	47.5	Funda-20dB	27.6	27.6

\*Hi-Pass Fiter was not used for factor 0.0dB of the above table.  
\*The test result is round off to one or two decimal places, so some differences might be observed.

**Radiated Spurious Emission (above 1GHz)**

**Tx, Ch: Mid**

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company Sony Computer Entertainment Inc.  
Equipment PSP  
Model PSP-3001  
S/N 03-TSP1320H-0000430-PSPXXXX  
Power AC 120V / 60Hz  
Mode 11b, Tx 2437MHz, 11Mbps(Worst),  
Position H: X-axis, V: Z-axis

Regulation FCC15.247(d) / RSS-210 A8.5  
Test Distance 3m (1G-10GHz) / 1m (above 10GHz)  
Date December 22, 2008 December 22, 2008  
Temperature 22 deg.C. 22 deg.C.  
Humidity 41 % 37 %  
Engineer Takumi Shimada Kenichi Adachi  
(below 10GHz) (above 10GHz)

**PK DETECT (RBW: 1MHz, VBW: 1MHz)**

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV]	VER					HOR [dBuV/m]	VER		HOR [dB]	VER
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
1	4874.00	44.7	49.2	31.7	30.9	4.2	1.1	50.8	55.3	73.9	23.1	18.6
2	7311.00	42.1	42.0	36.1	32.1	4.6	1.0	51.7	51.6	73.9	22.2	22.3
3	9748.00	41.6	41.4	38.5	32.4	5.6	1.3	54.6	54.4	73.9	19.3	19.5
<b>Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>												
4	12185.00	NS	NS	-	-	-	-	-	-	73.9	-	-
5	14622.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	17059.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	19496.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	21933.00	NS	NS	-	-	-	-	-	-	73.9	-	-
9	24370.00	43.4	43.3	38.6	31.0	8.4	0.0	49.9	49.8	73.9	24.0	24.1

**AV DETECT (RBW: 1MHz, VBW: 10Hz)**

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER					HOR [dBuV/m]	VER		HOR [dB]	VER
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
1	4874.00	31.6	36.0	31.7	30.9	4.2	1.1	37.7	42.1	53.9	16.2	11.8
2	7311.00	29.2	29.6	36.1	32.1	4.6	1.0	38.8	39.2	53.9	15.1	14.7
3	9748.00	28.9	28.8	38.5	32.4	5.6	1.3	41.9	41.8	53.9	12.0	12.1
<b>Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>												
4	12185.00	NS	NS	-	-	-	-	-	-	53.9	-	-
5	14622.00	NS	NS	-	-	-	-	-	-	53.9	-	-
6	17059.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	19496.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	21933.00	NS	NS	-	-	-	-	-	-	53.9	-	-
9	24370.00	30.2	30.2	38.6	31.0	8.4	0.0	36.7	36.7	53.9	17.2	17.2

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3.0/1.0) = 9.5 dB

\*Except for the above table : All other spurious emissions were less than 20dB for the limit.

\*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

\*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.

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

\*NS: No detect Signal.

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**Radiated Spurious Emission (above 1GHz)**

**Tx, Ch: High**

UL Japan, Inc.

Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company Sony Computer Entertainment Inc.  
Equipment PSP  
Model PSP-3001  
S/N 03-TSP1320H-0000430-PSPXXXX  
Power AC 120V / 60Hz  
Mode 11b, Tx 2462MHz, 11Mbps(Worst),  
Position H: X-axis, V: Z-axis

Regulation FCC15.247(d) / RSS-210 A8.5  
Test Distance 3m (1G-10GHz) / 1m (above 10GHz)  
Date December 22, 2008  
Temperature 22 deg.C.  
Humidity 37 %  
Engineer Kenichi Adachi

**PK DETECT (RBW: 1MHz, VBW: 1MHz)**

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV]	VER					HOR	VER		HOR	VER
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
1	2483.50	54.0	51.7	27.3	32.1	2.8	0.0	52.0	49.7	73.9	21.9	24.2
2	3282.66	46.1	46.3	29.0	31.7	3.3	0.0	46.7	46.9	73.9	27.2	27.0
3	4924.00	48.3	53.3	31.7	30.9	4.2	1.1	54.4	59.4	73.9	19.5	14.5
4	7386.00	44.0	43.9	36.2	32.1	4.7	1.0	53.8	53.7	73.9	20.1	20.2
5	9848.00	42.4	42.0	38.5	32.4	5.6	1.3	55.4	55.0	73.9	18.5	18.9
<b>Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>												
6	12310.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	14772.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	17234.00	NS	NS	-	-	-	-	-	-	73.9	-	-
9	19696.00	NS	NS	-	-	-	-	-	-	73.9	-	-
10	22158.00	NS	NS	-	-	-	-	-	-	73.9	-	-
11	24620.00	42.9	42.8	38.8	31.0	8.5	0.0	49.7	49.6	73.9	24.2	24.3

**AV DETECT (RBW: 1MHz, VBW: 10Hz)**

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER					HOR	VER		HOR	VER
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
1	2483.50	41.6	40.0	27.3	32.1	2.8	0.0	39.6	38.0	53.9	14.3	15.9
2	3282.66	41.1	41.4	29.0	31.7	3.3	0.0	41.7	42.0	53.9	12.2	11.9
3	4924.00	35.9	41.2	31.7	30.9	4.2	1.1	42.0	47.3	53.9	11.9	6.6
4	7386.00	31.5	31.4	36.2	32.1	4.7	1.0	41.3	41.2	53.9	12.6	12.7
5	9848.00	29.9	29.5	38.5	32.4	5.6	1.3	42.9	42.5	53.9	11.0	11.4
<b>Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>												
6	12310.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	14772.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	17234.00	NS	NS	-	-	-	-	-	-	53.9	-	-
9	19696.00	NS	NS	-	-	-	-	-	-	53.9	-	-
10	22158.00	NS	NS	-	-	-	-	-	-	53.9	-	-
11	24620.00	29.9	29.8	38.8	31.0	8.5	0.0	36.7	36.6	53.9	17.2	17.3

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3.0/1.0) = 9.5 dB

\*Except for the above table : All other spurious emissions were less than 20dB for the limit.

\*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

\*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.

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

\*NS: No detect Signal.

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**Radiated Spurious Emission (above 1GHz)**  
**11b, Rx, Ch: Mid**

UL Japan, Inc.  
Head Office EMC Lab. No.4 Semi Anechoic Chamber  
Regulation FCC 15.109 / RSS-Gen 7.2.1 and 7.2.3  
Test Distance 3m  
Date December 22, 2008  
Temperature 22 deg.C.  
Humidity 37 %  
Engineer Kenichi Adachi

Company Sony Computer Entertainment Inc.  
Equipment PSP  
Model PSP-3001  
S/N 03-TSP1320H-0000430-PSPXXXX  
Power AC 120V / 60Hz  
Mode 11b, Rx 2437MHz,  
Position H: X-axis, V: Z-axis

**PK DETECT** (RBW: 1MHz, VBW: 1MHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER				HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss											
1	1624.67	44.0	44.1	25.9	33.1	2.4	39.2	39.3	73.9	34.7	34.6
2	2437.00	42.8	42.7	27.2	32.1	2.8	40.7	40.6	73.9	33.2	33.3
3	3249.33	42.2	42.9	28.9	31.7	3.3	42.7	43.4	73.9	31.2	30.5
4	4874.00	41.5	41.4	31.7	30.9	3.9	46.2	46.1	73.9	27.7	27.8
5	7311.00	41.9	41.8	36.1	32.1	4.2	50.1	50.0	73.9	<b>23.8</b>	23.9

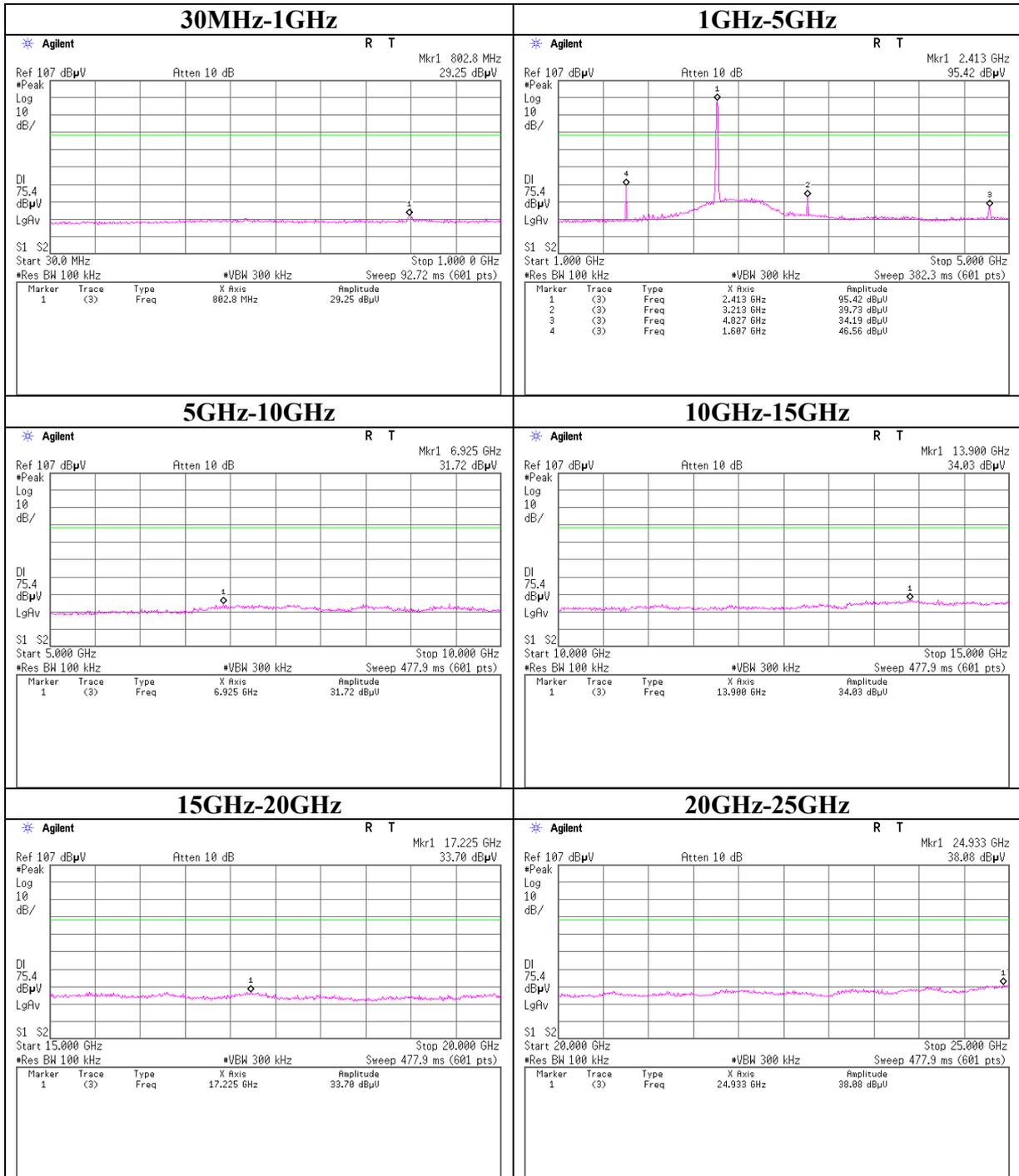
**AV DETECT** (RBW: 1MHz, VBW: 10Hz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER				HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss											
1	1624.67	30.5	30.6	25.9	33.1	2.4	25.7	25.8	53.9	28.2	28.1
2	2437.00	29.8	29.7	27.2	32.1	2.8	27.7	27.6	53.9	26.2	26.3
3	3249.33	29.6	29.7	28.9	31.7	3.3	30.1	30.2	53.9	23.8	23.7
4	4874.00	28.7	28.6	31.7	30.9	3.9	33.4	33.3	53.9	20.5	20.6
5	7311.00	29.4	29.3	36.1	32.1	4.2	37.6	37.5	53.9	<b>16.3</b>	16.4

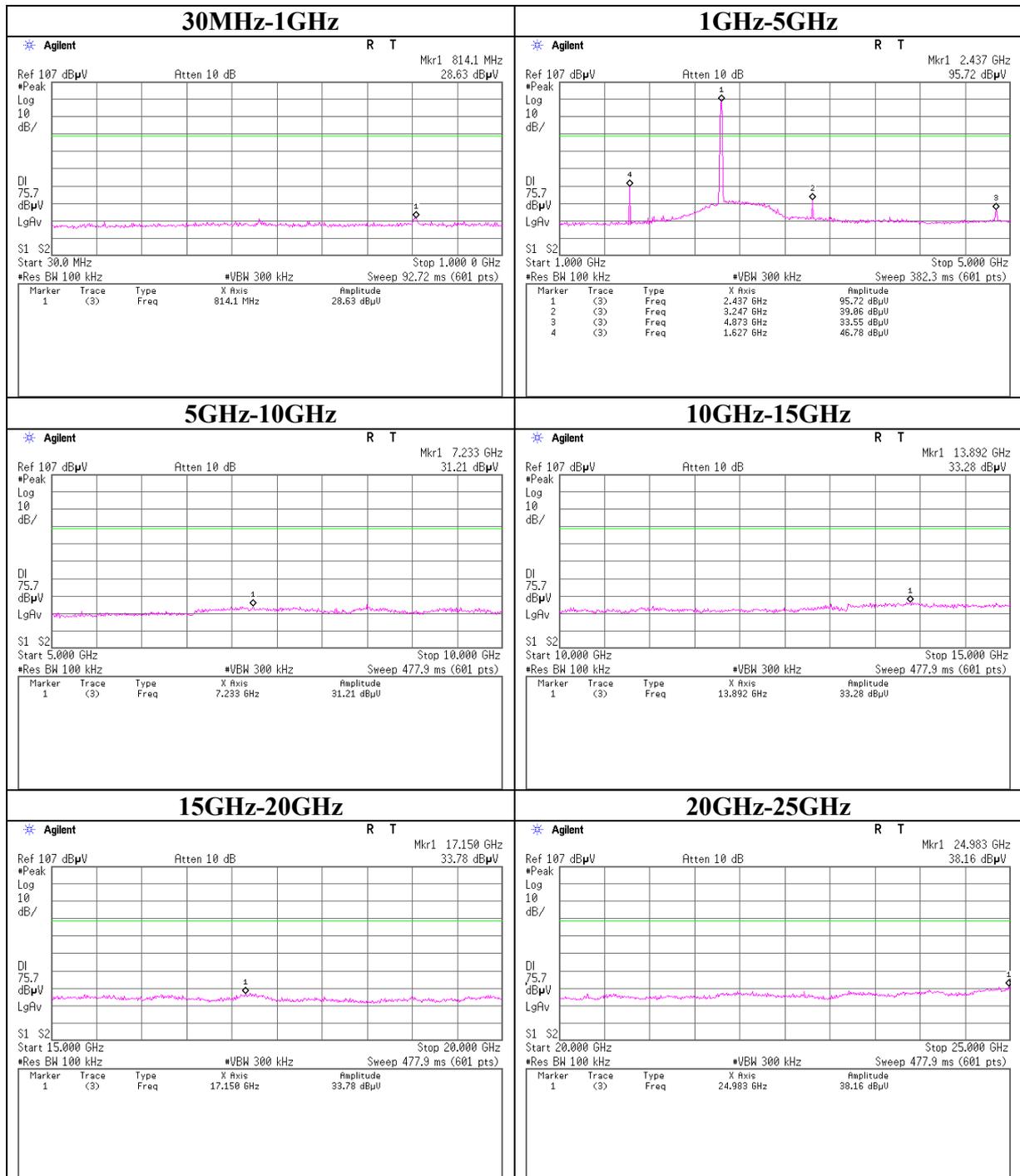
\*Except for the above table : All other spurious emissions were less than 20dB for the limit.

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

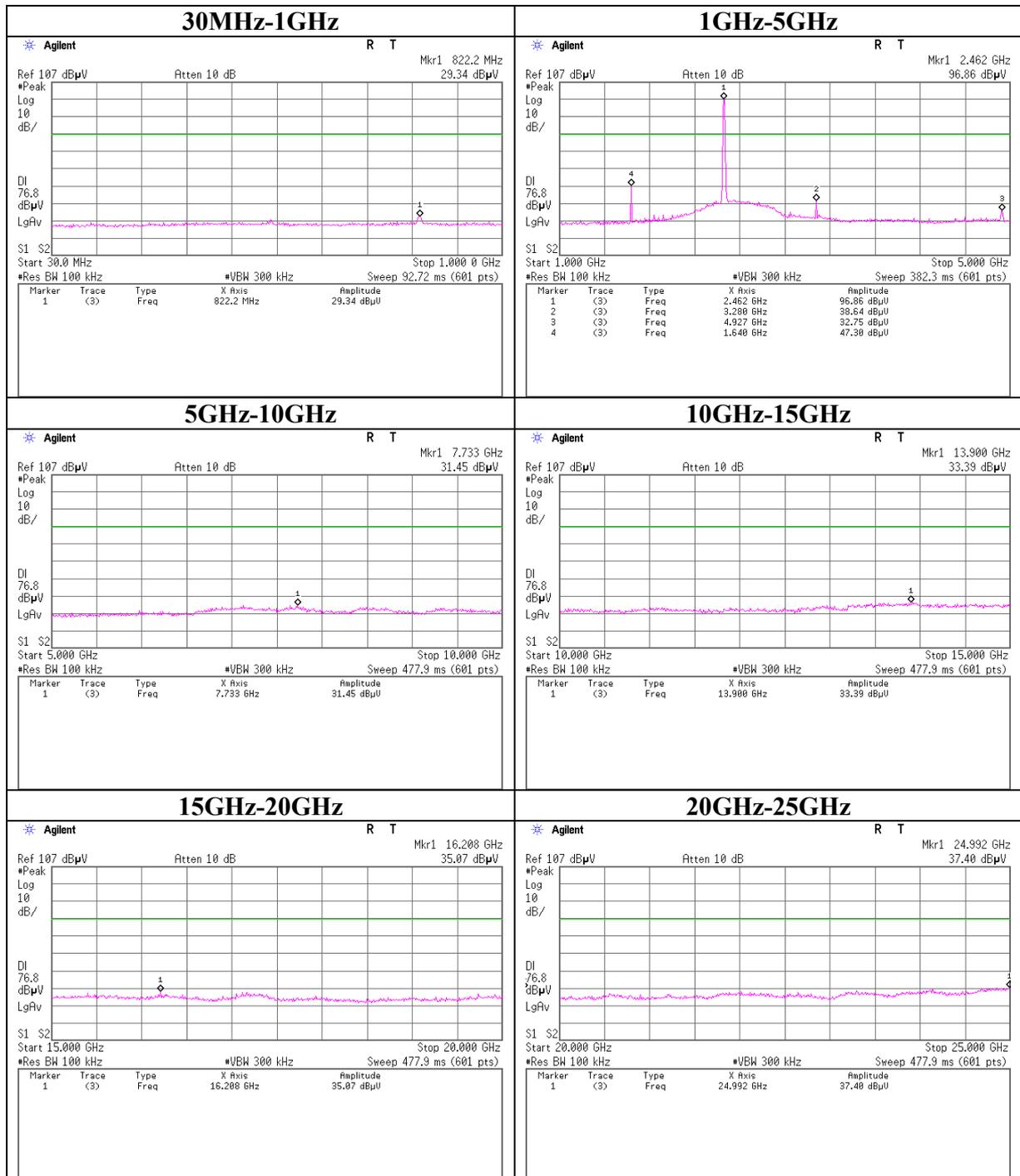
**Conducted Spurious Emission**  
**Tx, Ch: Low**



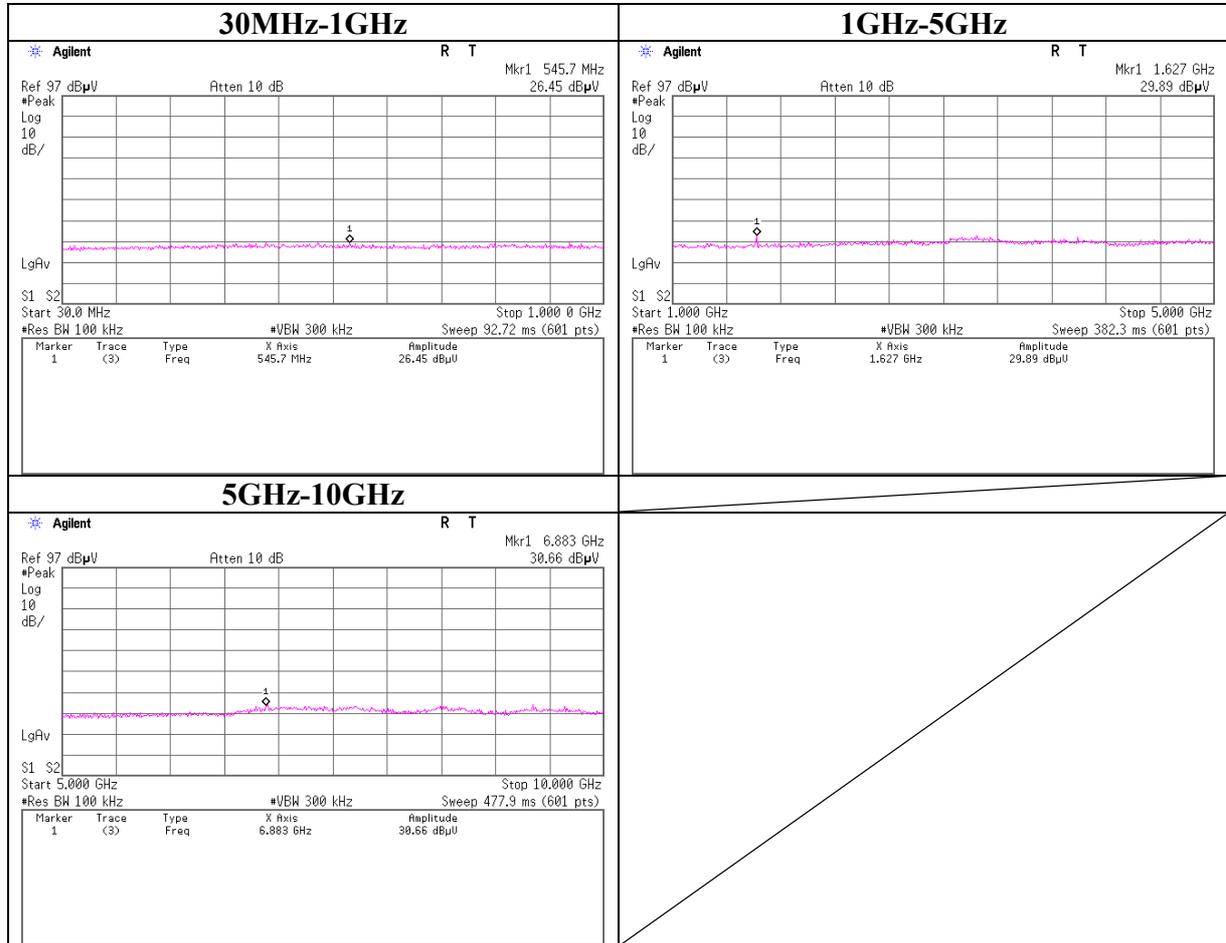
**Conducted Spurious Emission**  
**Tx, Ch: Mid**



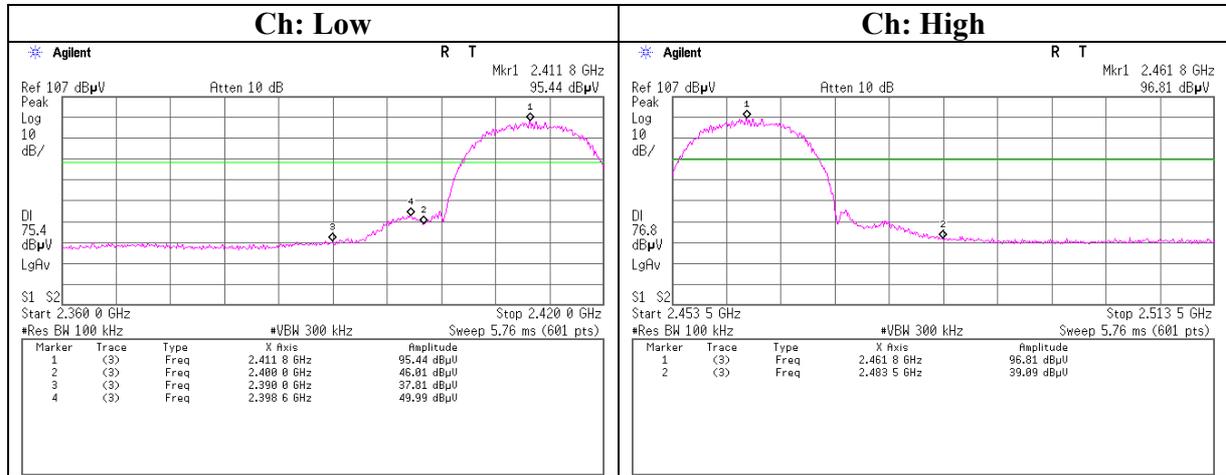
**Conducted Spurious Emission**  
**Tx, Ch: High**



**Conducted Spurious Emission**  
**Rx, Ch: Mid**



### Conducted emission Band Edge compliance



### Power Density

UL Japan, Inc.

Head Office EMC Lab. No.6 Shielded Room

Test Report No.

Company : Sony Computer Entertainment Inc.

Regulation : FCC15.247(e)/RSS-210A8.2(b)

Equipment : PSP

Test distance : -

Model No. : PSP-3001

Date : 01/27/2009

Serial No. : 03-TSP1320H-0000467-PSPXXXX

Temperature : 22°C

Power : AC120V/60Hz

Humidity : 35%

Mode : Tx (Ch L, M, H)

Engineer : Takumi Shimada

[IEEE802.11b]

Ch	Freq. [MHz]	Reading [dBm]	Cable [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2410.7	-16.67	1.1	10.0	-5.6	8.0	13.6
Mid	2437.0	-15.68	1.1	10.0	-4.6	8.0	12.6
High	2460.7	-15.33	1.1	10.0	-4.3	8.0	12.3

Sample Calculation:

Result = Reading + Cable Loss (splied by customer) + Attenuator

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**UL Japan, Inc.**

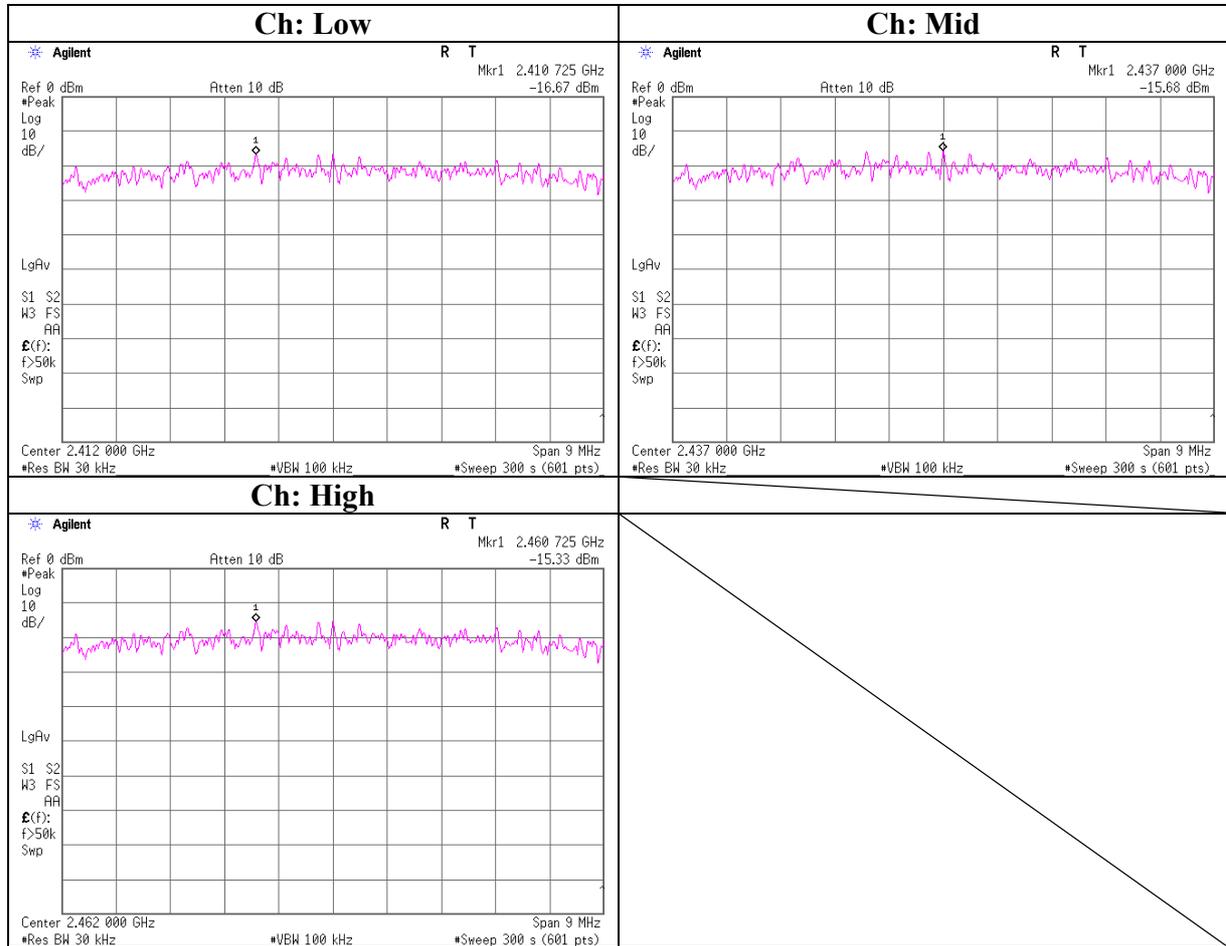
**Head Office EMC Lab.**

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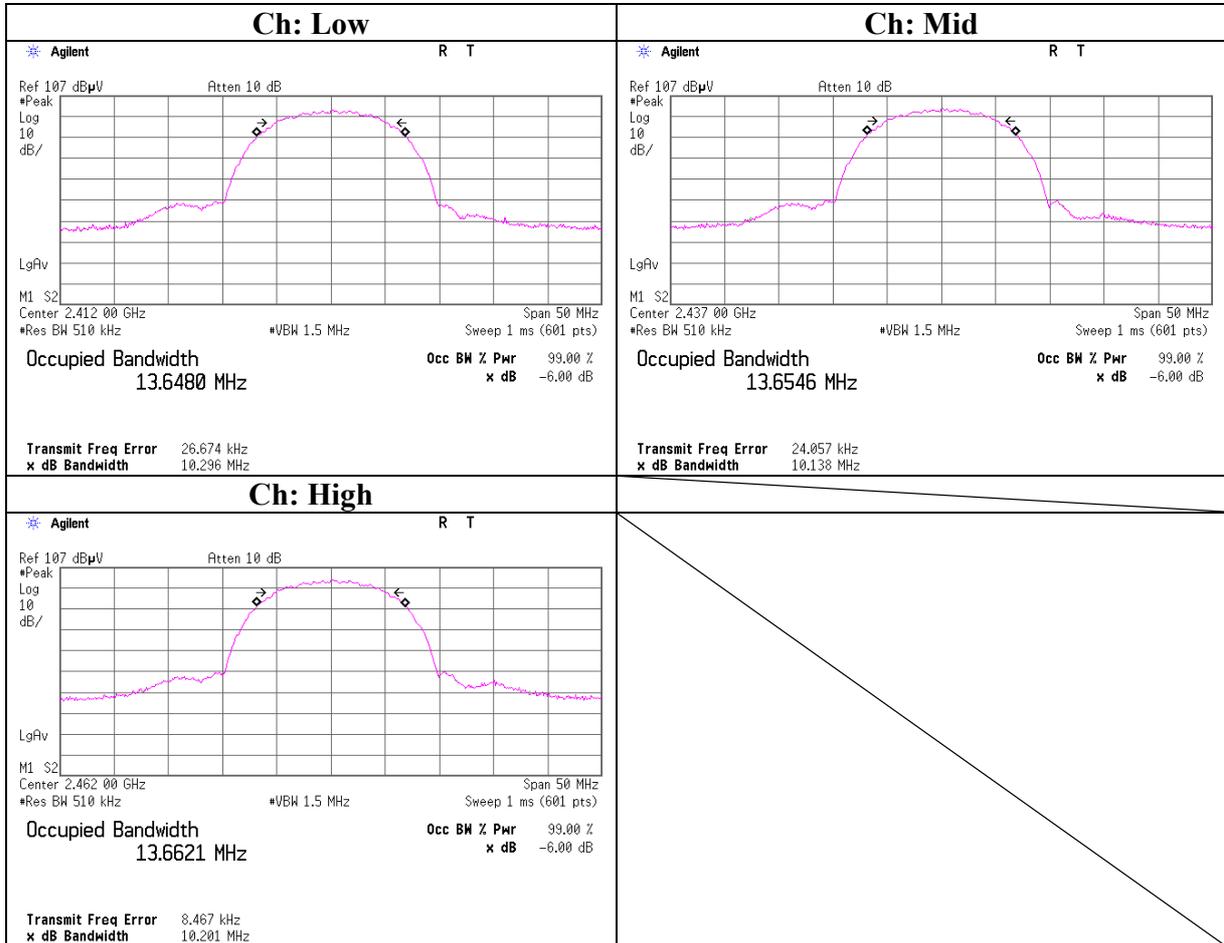
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**Power Density**



**99% Occupied Bandwidth**



### APPENDIX 3: Test instruments

#### EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
MAEC-04	Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	RE/CE	2008/03/27 * 12
MOS-15	Thermo-Hygrometer	Custom	CTH-180	-	RE/CE	2009/01/13 * 12
MJM-07	Measure	PROMART	SEN1955	-	RE/CE	-
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	-	RE/CE	-
MSA-05	Spectrum Analyzer	Advantest	R3273	160400285	RE/CE	2008/06/25 * 12
MHA-21	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	9120D-557	RE	2008/08/11 * 12
MCC-57	Microwave Cable 1G-26.5GHz (6.0m)	Suhner	SUCOFLEX104	246769(1m) / 292411(5m)	RE	2008/11/05 * 12
MPA-12	MicroWave System Amplifier	Agilent	83017A	MY39500780	RE	2008/03/13 * 12
MHA-17	Horn Antenna 15-40GHz	Schwarzbeck	BBHA9170	BBHA917030 7	RE	2008/04/30 * 12
MHF-20	High Pass Filter 3.5-18.0GHz	TOKIMEC	TF323DCC	607	RE	2008/12/12 * 12
MCC-79	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	278923/4	RE	2008/12/17 * 12
MTR-07	Test Receiver	Rohde & Schwarz	ESCI	100635	RE/CE	2008/10/03 * 12
MBA-05	Biconical Antenna	Schwarzbeck	BBA9106	1302	RE	2009/01/10 * 12
MLA-08	Logperiodic Antenna	Schwarzbeck	UKLP9140-A	N/A	RE	2009/01/10 * 12
MCC-50	Coaxial cable	UL Japan	-	-	RE	2008/03/17 * 12
MAT-31	Attenuator(6dB)	TME	UFA-01	-	RE	2008/03/10 * 12
MPA-14	Pre Amplifier	SONOMA INSTRUMENT	310	260833	RE	2008/03/06 * 12
MLS-06	LISN(AMN)	Schwarzbeck	NSLK8127	8127363	CE(EUT)	2008/02/19 * 12
MLS-03	LISN(AMN)	Schwarzbeck	NSLK8127	8127384	CE(AE)	2008/07/01 * 12
MTA-06	Terminator	MCL	BTRM-50	1 9951	CE	2008/02/04 * 12
MCC-113	Coaxial cable	Fujikura/Suhner/TSJ	-	-	CE	2008/07/03 * 12
MSA-03	Spectrum Analyzer	Agilent	E4448A	MY44020357	AT	2008/11/07 * 12
MPM-09	Power Meter	Anritsu	ML2495A	6K00003348	AT	2008/09/04 * 12
MPSE-12	Power sensor	Anritsu	MA2411B	011598	AT	2008/09/04 * 12
MAT-24	Attenuator(10dB)(above1GHz)	Agilent	8493C	71389	AT	2008/06/25 * 12
MOS-14	Thermo-Hygrometer	Custom	CTH-180	-	AT	2009/01/13 * 12

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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: CE: Conducted Emission  
RE: Radiated Emission  
AT: Antenna Terminal Conducted test

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**UL Japan, Inc.**

**Head Office EMC Lab.**

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