

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. : -0100000542-PSPXXXX Engineer : Kazuya Yoshioka

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

LIMIT : FCC15.207 QP
FCC15.207 AV

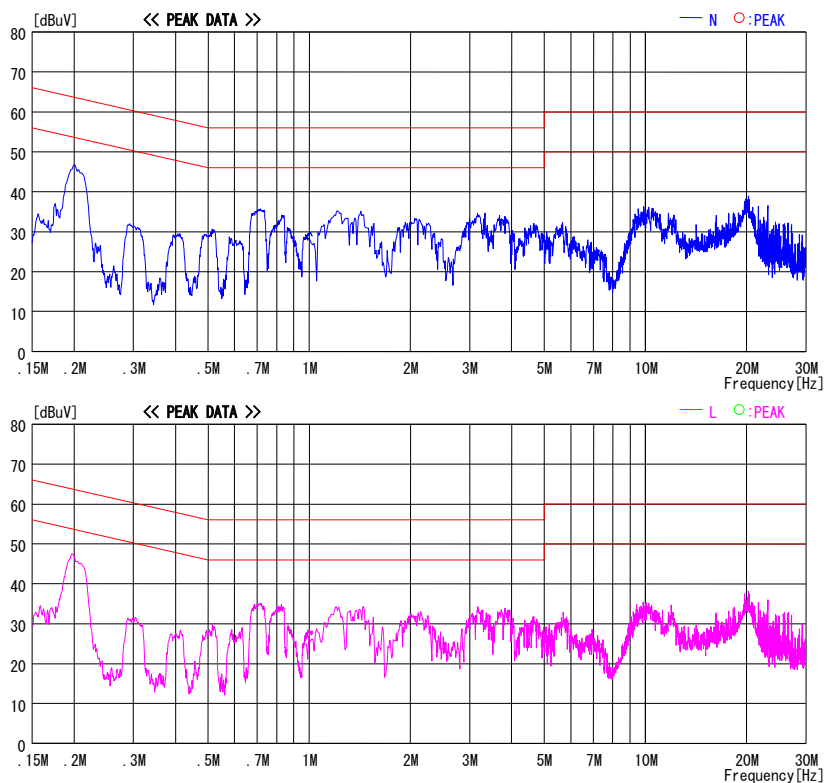


CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT [dBuV] = READING [dBuV] + C. F [dB] (LISN LOSS + CABLE LOSS)
Except for the above table : adequate margin data below the limits.

Conducted Emission
11b, Tx, Ch: Mid

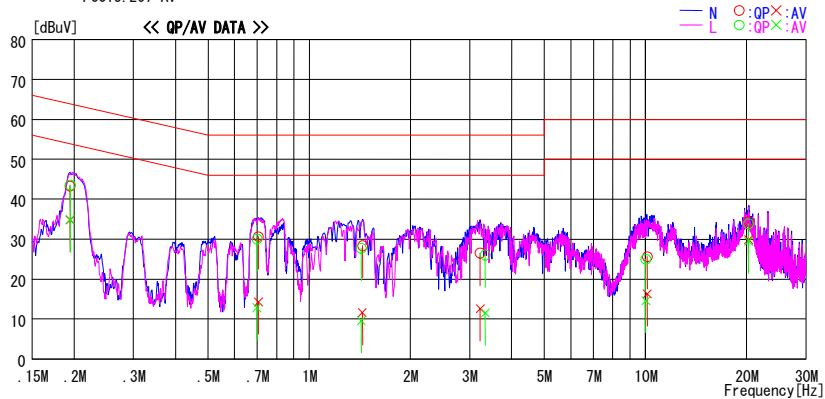
DATA OF CONDUCTED EMISSION TEST

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. : -0100000542-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]		
0.19434	43.1	34.6	0.2	43.3	34.8	63.8	53.8	20.5	19.0	N	
0.70602	30.3	14.0	0.3	30.6	14.3	56.0	46.0	25.4	31.7	N	
1.43966	28.0	11.2	0.4	28.4	11.6	56.0	46.0	27.6	34.4	N	
3.22273	26.0	12.1	0.5	26.5	12.6	56.0	46.0	29.5	33.4	N	
10.12390	24.5	15.2	1.1	25.6	16.3	60.0	50.0	34.4	33.7	N	
20.25812	32.7	28.2	1.7	34.4	29.9	60.0	50.0	25.6	20.1	N	
0.19456	43.4	34.7	0.2	43.6	34.9	63.8	53.8	20.2	18.9	L	
0.69918	29.8	12.5	0.3	30.1	12.8	56.0	46.0	25.9	33.2	L	
1.42840	27.3	9.2	0.4	27.7	9.6	56.0	46.0	28.3	36.4	L	
3.34027	25.5	11.0	0.5	26.0	11.5	56.0	46.0	30.0	34.5	L	
10.01955	23.9	13.5	1.1	25.0	14.6	60.0	50.0	35.0	35.4	L	
20.25852	32.2	27.8	1.7	33.9	29.5	60.0	50.0	26.1	20.5	L	

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.

*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. : ~0100000542~PSPXXXX Engineer : Kazuya Yoshioka

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

LIMIT : FCC15.207 QP

FCC15.207 AV

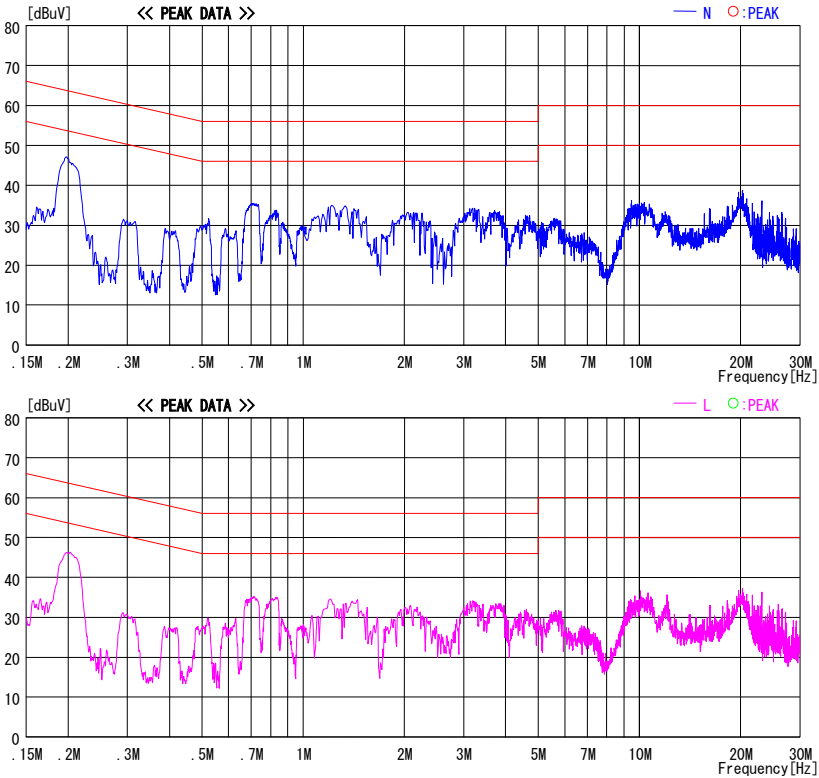


CHART:WITH FACTOR, Peak hold data. CALCULATION:RESULT[dBuV]=READING[dBuV]+C.F[dB] (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

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. : -0100000542-PSPXXXX Engineer : Kazuya Yoshioka

Mode / Remarks : WLAN 11b Rx 2437MHz

LIMIT : FCC15.207 QP
FCC15.207 AV

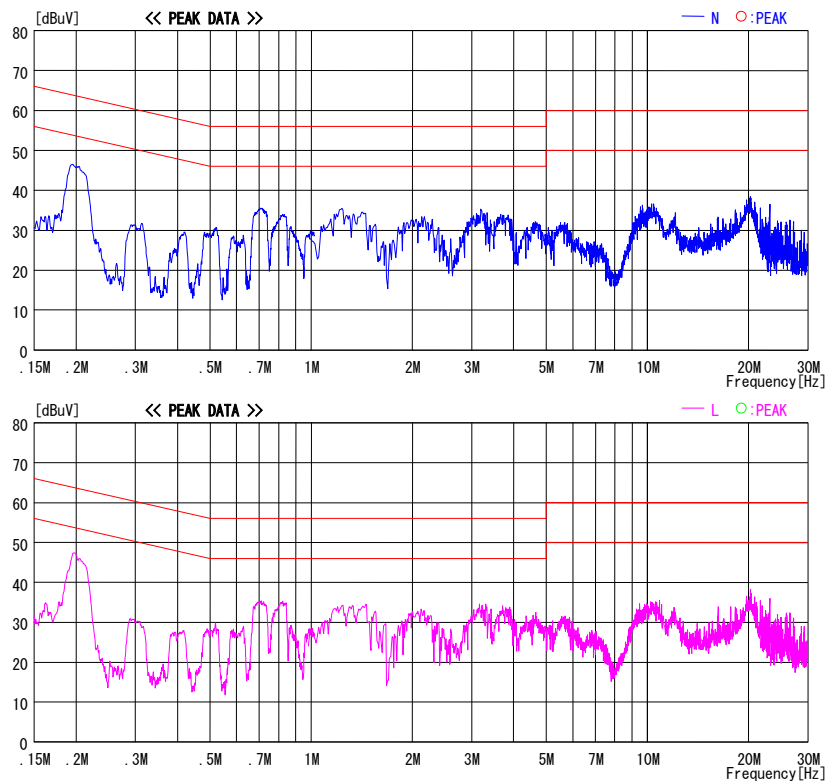


CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT[dBuV]=READING[dBuV]+C.F[dB] (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

6dB Bandwidth

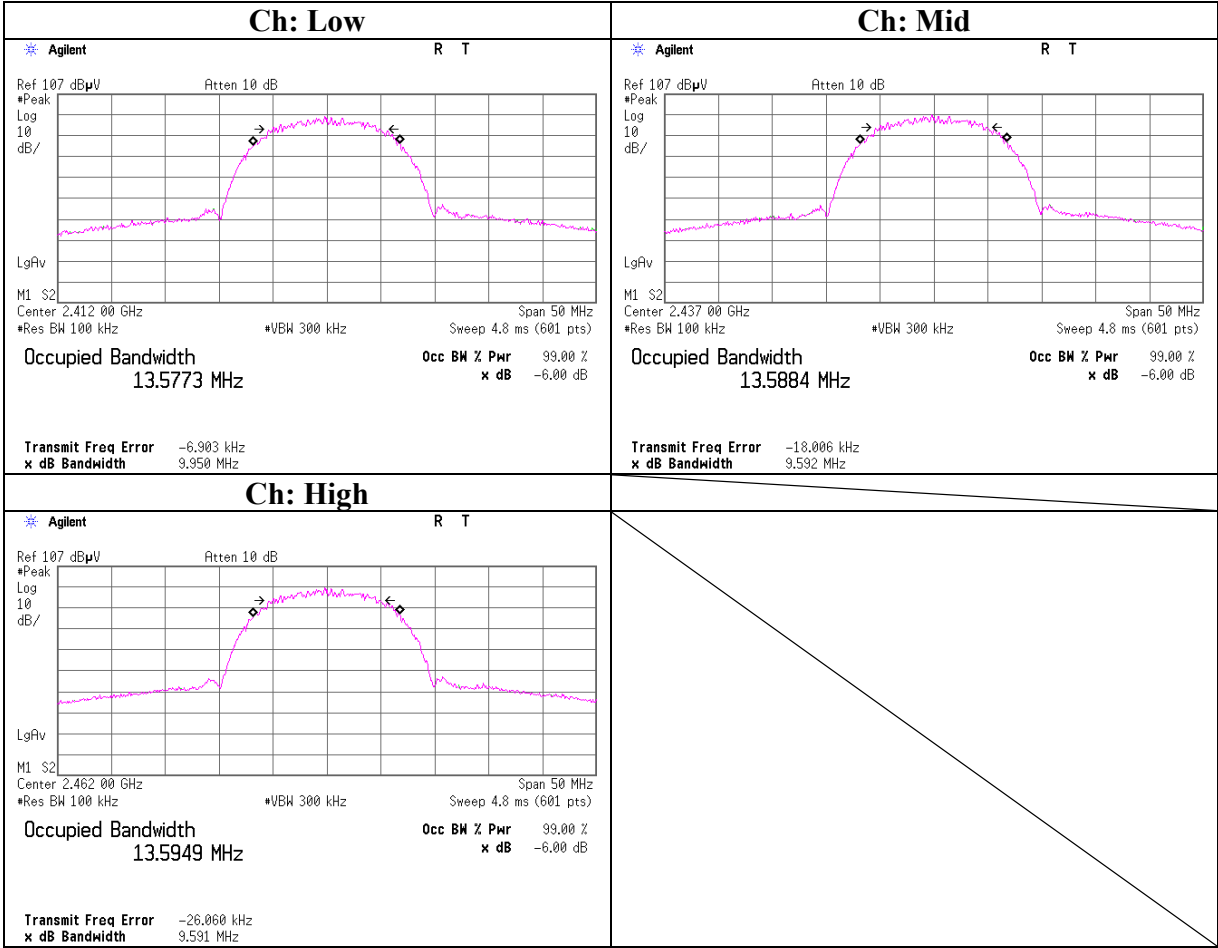
UL Japan, Inc.
Head Office EMC Lab. No.6 Shielded Room

Company : Sony Computer Entertainment Inc.
Equipment : PSP
Model No. : PSP-3001
Serial No. : -0100000696-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	9.950	>500
Mid	2437.0	9.592	>500
High	2462.0	9.591	>500

6dB Bandwidth



Maximum Peak Output Power

Company	Sony Computer Entertainment Inc.	UL Japan, Inc	
Equipment	PSP	Head Office EMC Lab. No.6 Shielded room	
Model	PSP-3001	Regulation	FCC Part15 Subpart C 15.247(b)(3) / RSS-210 A8.4(4)
S/N	-0100000696-PSPXXXX	Test Distance	-
Power	AC 120V / 60Hz	Date	01/27/2009
Mode	11b, Tx, 11Mbps	Temperature	22 deg.C.
		Humidity	35 %
		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	0.66	1.10	9.98	11.74	14.93	30.0	1000	18.26
Mid	2437.0	1.63	1.10	9.98	12.71	18.66	30.0	1000	17.29
High	2462.0	1.69	1.10	9.98	12.77	18.92	30.0	1000	17.23

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	1.59	1.10	9.98	12.67	18.49	30.0	1000	17.33
2437	2.0	1.57	1.10	9.98	12.65	18.41	30.0	1000	17.35
2437	5.5	1.10	1.10	9.98	12.18	16.52	30.0	1000	17.82
2437	11.0	1.63	1.10	9.98	12.71	18.66	30.0	1000	17.29

Sample Calculation:

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

Radiated Spurious Emission (below 1GHz)

Tx, Ch: Low

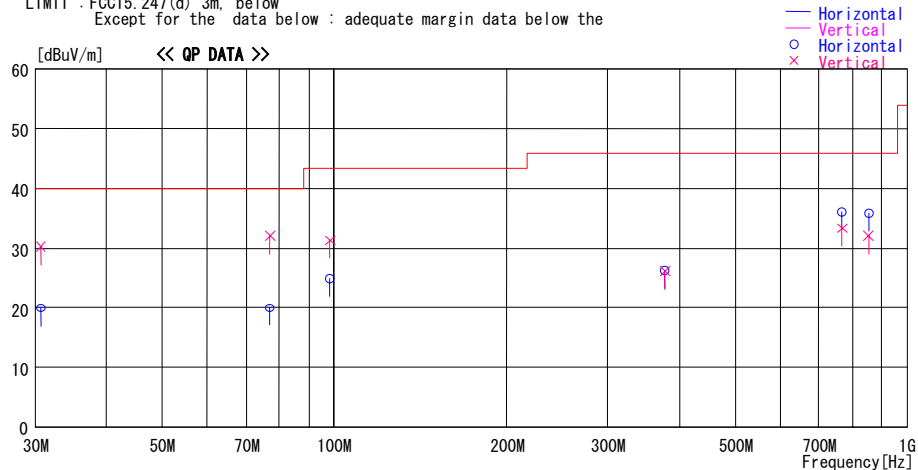
DATA OF RADIATED EMISSION TEST

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. : -0100000542-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	Reading	DET	Antenna Factor	Loss & Gain	Level	Angle	Height	Polar.	Limit	Margin
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]
30.646	26.2	QP	18.6	-24.9	19.9	300	304	Hori.	40.0	20.1
30.646	36.6	QP	18.6	-24.9	30.3	360	100	Vert.	40.0	9.7
77.096	37.8	QP	6.5	-24.2	20.1	193	216	Hori.	40.0	19.9
77.096	49.8	QP	6.5	-24.2	32.1	181	100	Vert.	40.0	7.9
98.516	39.1	QP	9.9	-23.9	25.1	216	301	Hori.	43.5	18.4
98.515	45.4	QP	9.9	-23.9	31.4	98	100	Vert.	43.5	12.1
378.004	30.4	QP	17.6	-21.6	26.4	151	136	Hori.	46.0	19.6
378.004	30.2	QP	17.6	-21.6	26.2	299	100	Vert.	46.0	19.8
767.384	32.6	QP	22.6	-19.1	36.1	13	114	Hori.	46.0	9.9
767.385	29.9	QP	22.6	-19.1	33.4	301	143	Vert.	46.0	12.6
857.671	31.0	QP	23.2	-18.3	35.9	12	193	Hori.	46.0	10.1
857.672	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.

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

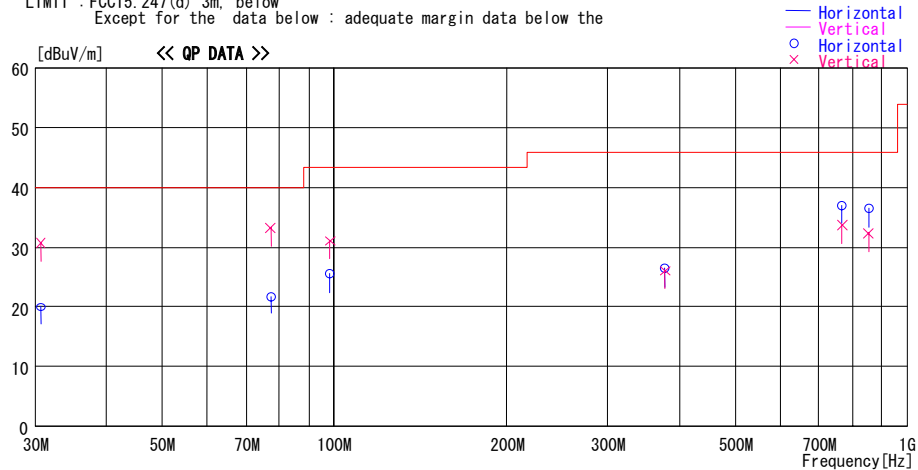
DATA OF RADIATED EMISSION TEST

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. : -0100000542-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]						
30.651	26.4	QP	18.6	-24.9	20.1	302	302	Hori.	40.0	19.9
30.651	37.1	QP	18.6	-24.9	30.8	360	100	Vert.	40.0	9.2
77.199	39.5	QP	6.5	-24.2	21.8	203	221	Hori.	40.0	18.2
77.199	51.0	QP	6.5	-24.2	33.3	179	100	Vert.	40.0	6.7
98.512	39.6	QP	9.9	-23.9	25.6	213	304	Hori.	43.5	17.9
98.512	45.1	QP	9.9	-23.9	31.1	103	100	Vert.	43.5	12.4
378.012	30.5	QP	17.6	-21.6	26.5	160	132	Hori.	46.0	19.5
378.012	30.1	QP	17.6	-21.6	26.1	302	100	Vert.	46.0	19.9
767.393	33.6	QP	22.6	-19.1	37.1	16	115	Hori.	46.0	8.9
767.394	30.2	QP	22.6	-19.1	33.7	320	145	Vert.	46.0	12.3
857.673	31.6	QP	23.2	-18.3	36.5	21	197	Hori.	46.0	9.5
857.674	27.5	QP	23.2	-18.3	32.4	325	100	Vert.	46.0	13.6

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: High

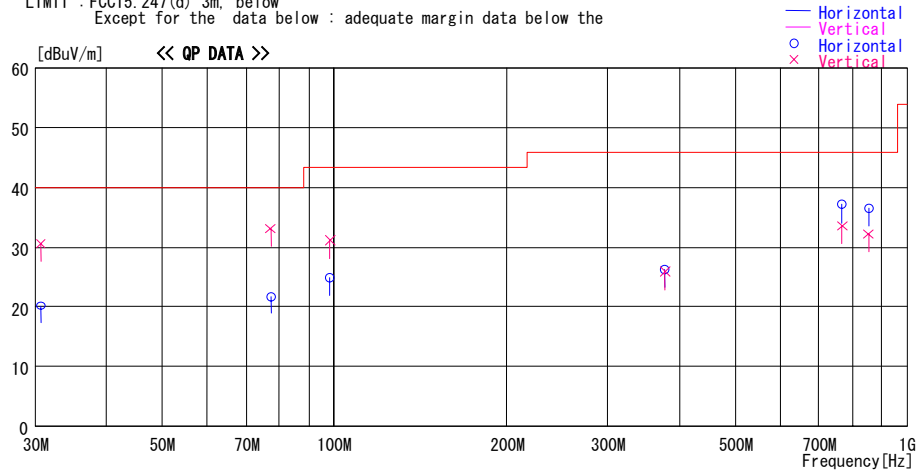
DATA OF RADIATED EMISSION TEST

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. : -0100000542-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]						
30.642	26.5	QP	18.6	-24.9	20.2	305	303	Hori.	40.0	19.8
30.642	37.0	QP	18.6	-24.9	30.7	360	100	Vert.	40.0	9.3
77.200	39.6	QP	6.5	-24.2	21.9	206	218	Hori.	40.0	18.1
77.200	50.9	QP	6.5	-24.2	33.2	180	100	Vert.	40.0	6.8
98.505	39.0	QP	9.9	-23.9	25.0	210	303	Hori.	43.5	18.5
98.505	45.2	QP	9.9	-23.9	31.2	97	100	Vert.	43.5	12.3
378.000	30.4	QP	17.6	-21.6	26.4	153	134	Hori.	46.0	19.6
377.999	30.0	QP	17.6	-21.6	26.0	295	100	Vert.	46.0	20.0
767.390	33.7	QP	22.6	-19.1	37.2	18	116	Hori.	46.0	8.8
767.382	30.1	QP	22.6	-19.1	33.6	302	144	Vert.	46.0	12.4
857.672	31.8	QP	23.2	-18.3	36.7	19	199	Hori.	46.0	9.3
857.661	27.3	QP	23.2	-18.3	32.2	328	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

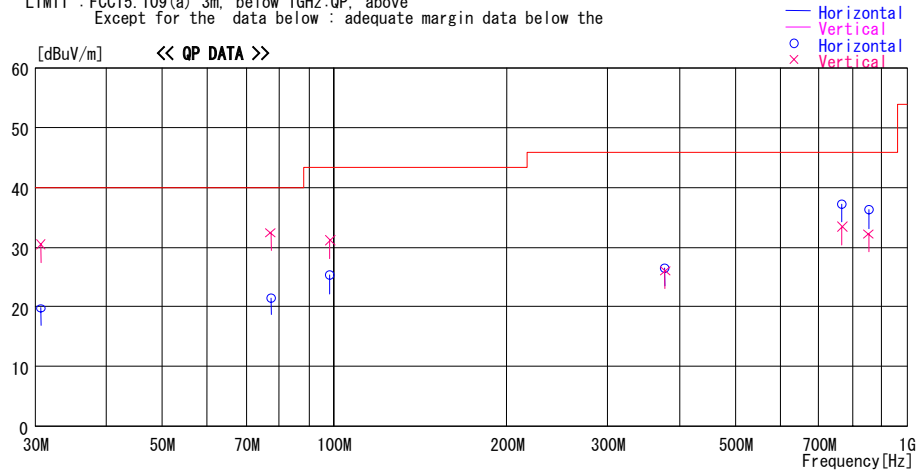
DATA OF RADIATED EMISSION TEST

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. : -0100000542-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]						
30.645	26.1	QP	18.6	-24.9	19.8	299	306	Hori.	40.0	20.2
30.645	36.9	QP	18.6	-24.9	30.6	360	100	Vert.	40.0	9.4
77.210	39.4	QP	6.5	-24.2	21.7	203	221	Hori.	40.0	18.3
77.210	50.2	QP	6.5	-24.2	32.5	182	100	Vert.	40.0	7.5
98.512	39.4	QP	9.9	-23.9	25.4	212	301	Hori.	43.5	18.1
98.512	45.3	QP	9.9	-23.9	31.3	99	100	Vert.	43.5	12.2
377.997	30.6	QP	17.6	-21.6	26.6	155	137	Hori.	46.0	19.4
377.998	30.1	QP	17.6	-21.6	26.1	297	100	Vert.	46.0	19.9
767.392	33.8	QP	22.6	-19.1	37.3	13	116	Hori.	46.0	8.7
767.393	30.0	QP	22.6	-19.1	33.5	300	142	Vert.	46.0	12.5
857.675	31.4	QP	23.2	-18.3	36.3	14	203	Hori.	46.0	9.7
857.676	27.4	QP	23.2	-18.3	32.3	323	100	Vert.	46.0	13.7

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

Company Sony Computer Entertainment Inc.
Equipment PSP
Model PSP-3001
S/N -0100000542-PSPXXXX
Power AC 120V / 60Hz
Mode 11b, Tx 2412MHz, 11Mbps(Worst)
Position H: X-axis, V: Z-axis

UL Japan, Inc.
Head Office EMC Lab. No.4 Semi Anechoic Chamber
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	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
	[MHz]	HOR [dBuV]	VER					HOR	VER [dBuV/m]		HOR	VER [dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1501.51	57.7	46.4	25.7	33.4	2.3	0.0	52.3	41.0	73.9	21.6	32.9
2	2390.00	61.2	54.0	27.2	32.2	2.8	0.0	59.0	51.8	73.9	14.9	22.1
3 **	2400.00	71.0	63.6	27.2	32.2	2.8	0.0	68.8	61.4	73.9	-	-
4	4824.00	37.9	38.6	31.6	30.9	4.2	1.2	43.9	44.6	73.9	30.0	29.3
5	7236.00	42.4	40.4	36.0	32.0	4.6	1.0	52.0	50.0	73.9	21.9	23.9
6	9648.00	39.9	40.6	38.4	32.4	5.5	1.3	52.7	53.4	73.9	21.2	20.5
Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12060.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	14472.00	NS	NS	-	-	-	-	-	-	73.9	-	-
9	16884.00	NS	NS	-	-	-	-	-	-	73.9	-	-
10	19296.00	NS	NS	-	-	-	-	-	-	73.9	-	-
11	21708.00	NS	NS	-	-	-	-	-	-	73.9	-	-
12	24120.00	43.0	43.1	38.5	31.0	8.4	0.0	49.4	49.5	73.9	24.5	24.4

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

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

No.	FREQ [MHz]	S/A READING HOR VER [dBuV]		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT HOR VER [dBuV/m]		Limit AV [dBuV/m]	MARGIN HOR VER [dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1501.51	45.6	34.4	25.7	33.4	2.3	0.0	40.2	29.0	53.9	13.7	24.9
2	2390.00	50.4	43.3	27.2	32.2	2.8	0.0	48.2	41.1	53.9	5.7	12.8
3 **	2400.00	59.5	52.8	27.2	32.2	2.8	0.0	57.3	50.6	53.9	-	-
4	4824.00	26.6	26.0	31.6	30.9	4.2	1.2	32.6	32.0	53.9	21.3	21.9
5	7236.00	30.0	29.0	36.0	32.0	4.6	1.0	39.6	38.6	53.9	14.3	15.3
6	9648.00	28.5	28.1	38.4	32.4	5.5	1.3	41.3	40.9	53.9	12.6	13.0
Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12060.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	14472.00	NS	NS	-	-	-	-	-	-	53.9	-	-
9	16884.00	NS	NS	-	-	-	-	-	-	53.9	-	-
10	19296.00	NS	NS	-	-	-	-	-	-	53.9	-	-
11	21708.00	NS	NS	-	-	-	-	-	-	53.9	-	-
12	24120.00	30.1	30.2	38.5	31.0	8.4	0.0	36.5	36.6	53.9	17.4	17.3

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

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

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

*Hi-Pass Filter 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.

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

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

Radiated Spurious Emission (above 1GHz)

11b, Tx, Ch: Low

Company	Sony Computer Entertainment Inc.	UL Japan, Inc.	Head Office EMC Lab. No.4 Semi Anechoic Chamber
Equipmen	PSP	Regulation	FCC15.247(d) / RSS-210 A8.5
Model	PSP-3001	Test Distance	3m (1G-10GHz) / 1m (above 10GHz)
S/N	-0100000542-PSPXXXX	Date	December 22, 2008
Power	AC 120V / 60Hz	Temperature	22 deg.C.
Mode	11b, Tx 2412MHz, 11Mbps(Worst)	Humidity	41 %
Position	H: X-axis, V: Z-axis	Engineer	Takumi Shimada

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

No.	FREQ	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN	
	[MHz]	HOR	VER					[dBuV]	HOR		VER	[dBuV/m]
Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
0	2412.00	104.2	100.9	27.2	32.2	2.9	0.0	102.1	98.8	-	-	-
3	2400.00	61.2	54.9	27.2	32.2	2.9	0.0	59.1	52.8	Funda-20dB	23.0	26.0

*Hi-Pass Filter 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 -0100000542-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)

K DECEY (KSW: 1MHz, VDW: 1MHz)												
No.	FREQ [MHz]	S/A READING HOR VER [dBuV]		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT HOR VER [dBuV/m]		Limit PK [dBuV/m]	MARGIN HOR VER [dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1540.40	43.6	49.1	25.7	33.3	2.3	0.0	38.3	43.8	73.9	35.6	30.1
2	4874.00	42.2	36.0	31.7	30.9	4.2	1.1	48.3	42.1	73.9	25.6	31.8
3	7311.00	43.5	45.3	36.1	32.1	4.6	1.0	53.1	54.9	73.9	20.8	19.0
4	9748.00	42.3	42.4	38.5	32.4	5.6	1.3	55.3	55.4	73.9	18.6	18.5
Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12185.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	14622.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	17059.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	19496.00	NS	NS	-	-	-	-	-	-	73.9	-	-
9	21933.00	NS	NS	-	-	-	-	-	-	73.9	-	-
10	24370.00	43.3	43.2	38.6	31.0	8.4	0.0	49.8	49.7	73.9	24.1	24.2

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

No.	FREQ [MHz]	S/A READING HOR VER [dBuV]		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT HOR VER [dBuV/m]		Limit AV [dBuV/m]	MARGIN HOR VER [dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1540.40	31.3	38.3	25.7	33.3	2.3	0.0	26.0	33.0	53.9	27.9	20.9
2	4874.00	29.8	22.9	31.7	30.9	4.2	1.1	35.9	29.0	53.9	18.0	24.9
3	7311.00	30.5	32.7	36.1	32.1	4.6	1.0	40.1	42.3	53.9	13.8	11.6
4	9748.00	30.2	29.6	38.5	32.4	5.6	1.3	43.2	42.6	53.9	10.7	11.3
Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12185.00	NS	NS	-	-	-	-	-	-	53.9	-	-
6	14622.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	17059.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	19496.00	NS	NS	-	-	-	-	-	-	53.9	-	-
9	21933.00	NS	NS	-	-	-	-	-	-	53.9	-	-
10	24370.00	30.2	30.1	38.6	31.0	8.4	0.0	36.7	36.6	53.9	17.2	17.3

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

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

*Hi-Pass Filter 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.

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

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

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 -0100000542-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 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.	FRFQ [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	VER					HOR	VER		HOR	VER
		[dBuV]									[dBuV/m]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1517.61	48.5	47.0	25.7	33.3	2.3	0.0	43.2	41.7	73.9	30.7	32.2
2	2483.50	57.9	56.9	27.3	32.1	2.8	0.0	55.9	54.9	73.9	18.0	19.0
3	4922.00	41.8	42.7	31.7	30.9	4.2	1.1	47.9	48.8	73.9	26.0	25.1
4	7386.00	43.9	44.7	36.2	32.1	4.7	1.0	53.7	54.5	73.9	20.2	19.4
5	9848.00	42.5	42.6	38.5	32.4	5.6	1.3	55.5	55.6	73.9	18.4	18.3
Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
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	43.1	43.0	38.8	31.0	8.5	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	VER					HOR	VER		HOR	VER
		[dBuV]									[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1517.61	31.8	31.1	25.7	33.3	2.3	0.0	26.5	25.8	53.9	27.4	28.1
2	2483.50	46.4	45.0	27.3	32.1	2.8	0.0	44.4	43.0	53.9	9.5	10.9
3	4922.00	29.4	29.3	31.7	30.9	4.2	1.1	35.5	35.4	53.9	18.4	18.5
4	7386.00	30.8	32.2	36.2	32.1	4.7	1.0	40.6	42.0	53.9	13.3	11.9
5	9848.00	30.3	30.0	38.5	32.4	5.6	1.3	43.3	43.0	53.9	10.6	10.9
Test distance 1meter RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
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	30.0	29.9	38.8	31.0	8.5	0.0	36.8	36.7	53.9	17.1	17.2

Test Distance 1.0m : Distance Factor(Dfac) = $20\log(3.0/1.0) = 9.5$ 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.

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

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

Radiated Spurious Emission (above 1GHz)

11b, Rx, Ch: Mid

Company Sony Computer Entertainment Inc.
Equipment PSP
Model PSP-3001
S/N -0100000542-PSPXXXX
Power AC 120V / 60Hz
Mode 11b, Rx 2437MHz
Position H: X-axis, V: Z-axis

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 41 %
Engineer Takumi Shimada

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
		[dBuV]								[dBuV/m]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss											
1	1892.00	44.9	44.5	26.4	32.7	2.5	41.1	40.7	73.9	32.8	33.2
2	2437.00	43.4	43.0	27.2	32.1	2.8	41.3	40.9	73.9	32.6	33.0
3	4874.00	41.4	41.2	31.7	30.9	3.9	46.1	45.9	73.9	27.8	28.0
4	7311.00	42.4	42.2	36.1	32.1	4.2	50.6	50.4	73.9	23.3	23.5

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
		[dBuV]					[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss											
1	1892.00	30.8	30.9	26.4	32.7	2.5	27.0	27.1	53.9	26.9	26.8
2	2437.00	29.8	29.8	27.2	32.1	2.8	27.7	27.7	53.9	26.2	26.2
3	4874.00	28.8	28.8	31.7	30.9	3.9	33.5	33.5	53.9	20.4	20.4
4	7311.00	29.4	29.5	36.1	32.1	4.2	37.6	37.7	53.9	16.3	16.2

*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.

UL Japan, Inc.

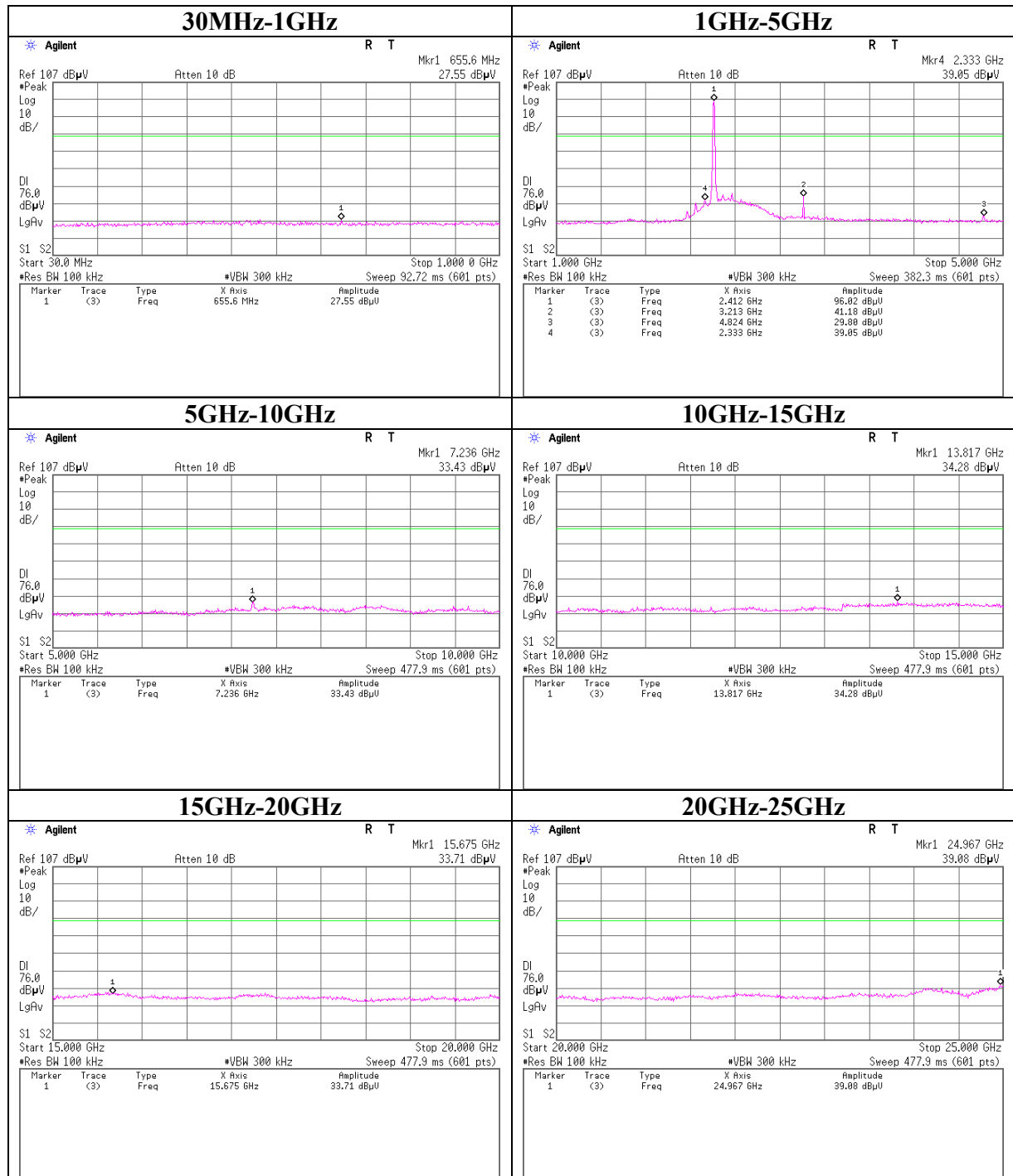
Head Office EMC Lab.

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

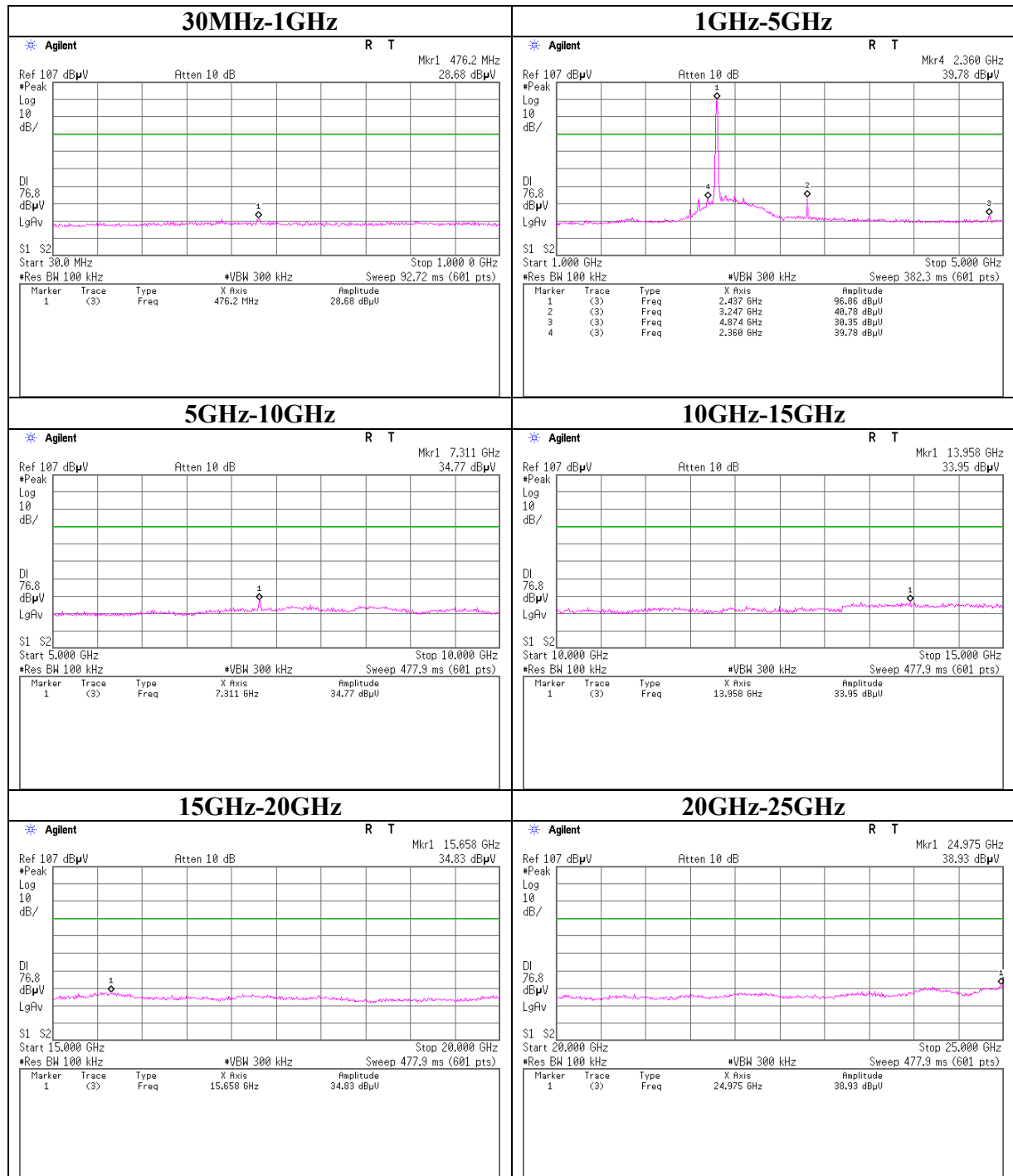
Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

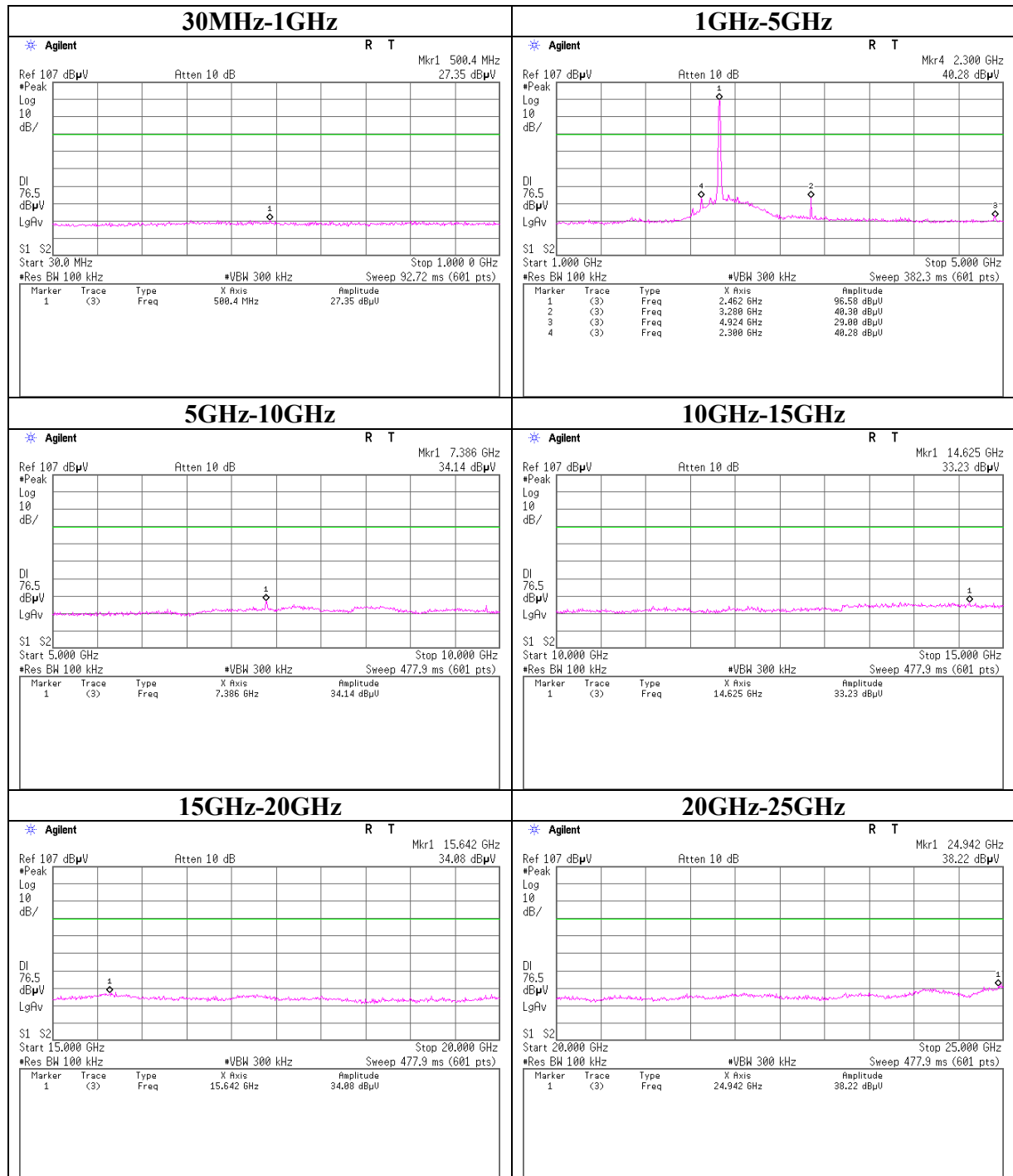
Conducted Spurious Emission
Tx, Ch: Low



Conducted Spurious Emission
Tx, Ch: Mid

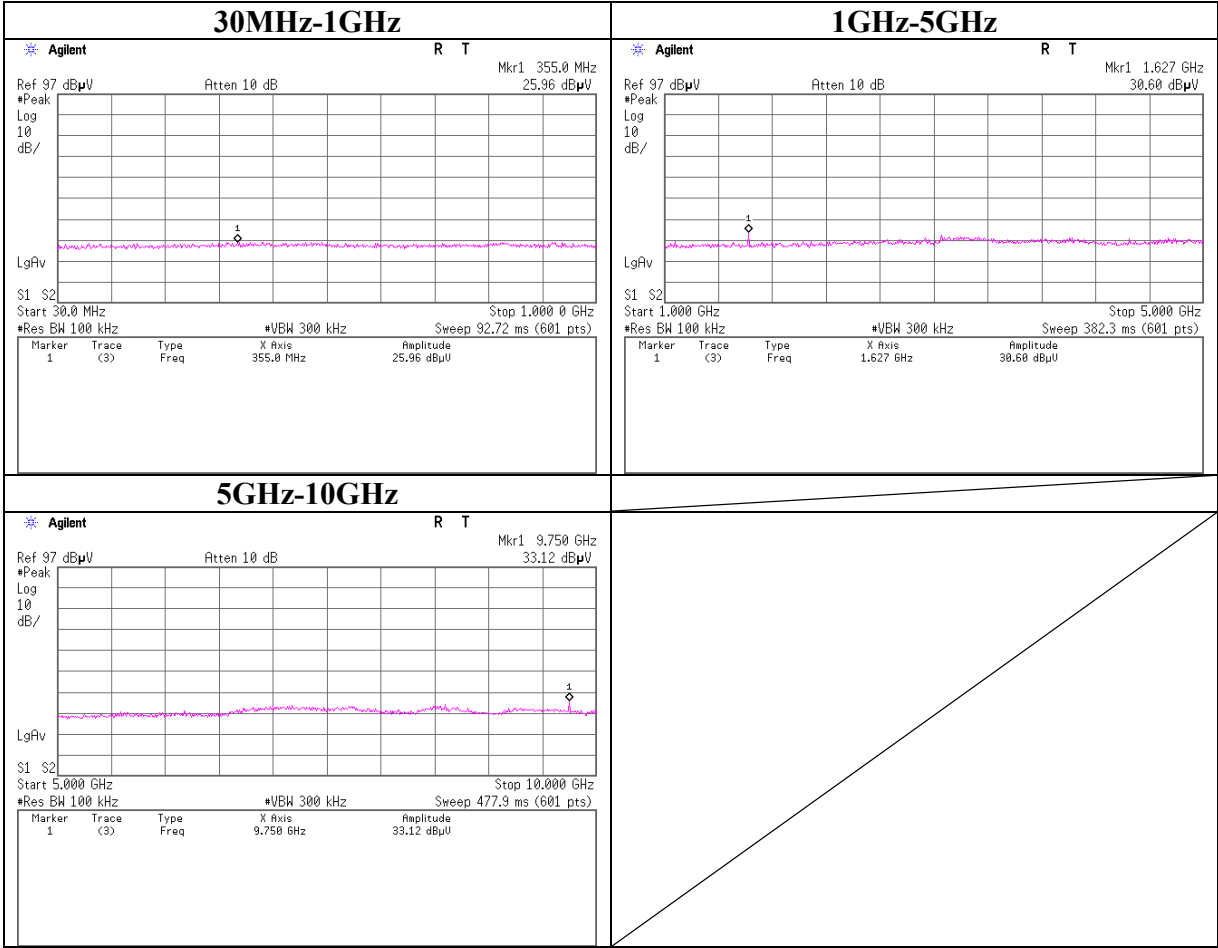


Conducted Spurious Emission
Tx, Ch: High

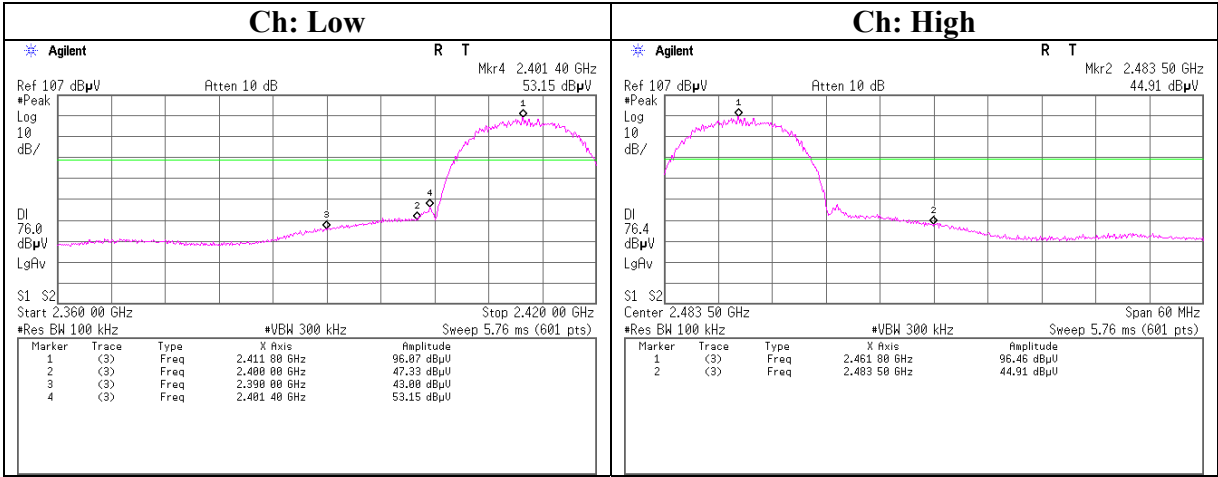


Conducted Spurious Emission

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. : -0100000696-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	2412.0	-15.91	1.1	10.0	-4.8	8.0	12.8
Mid	2437.0	-15.34	1.1	10.0	-4.3	8.0	12.3
High	2462.0	-14.98	1.1	10.0	-3.9	8.0	11.9

Sample Calculation:

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

UL Japan, Inc.

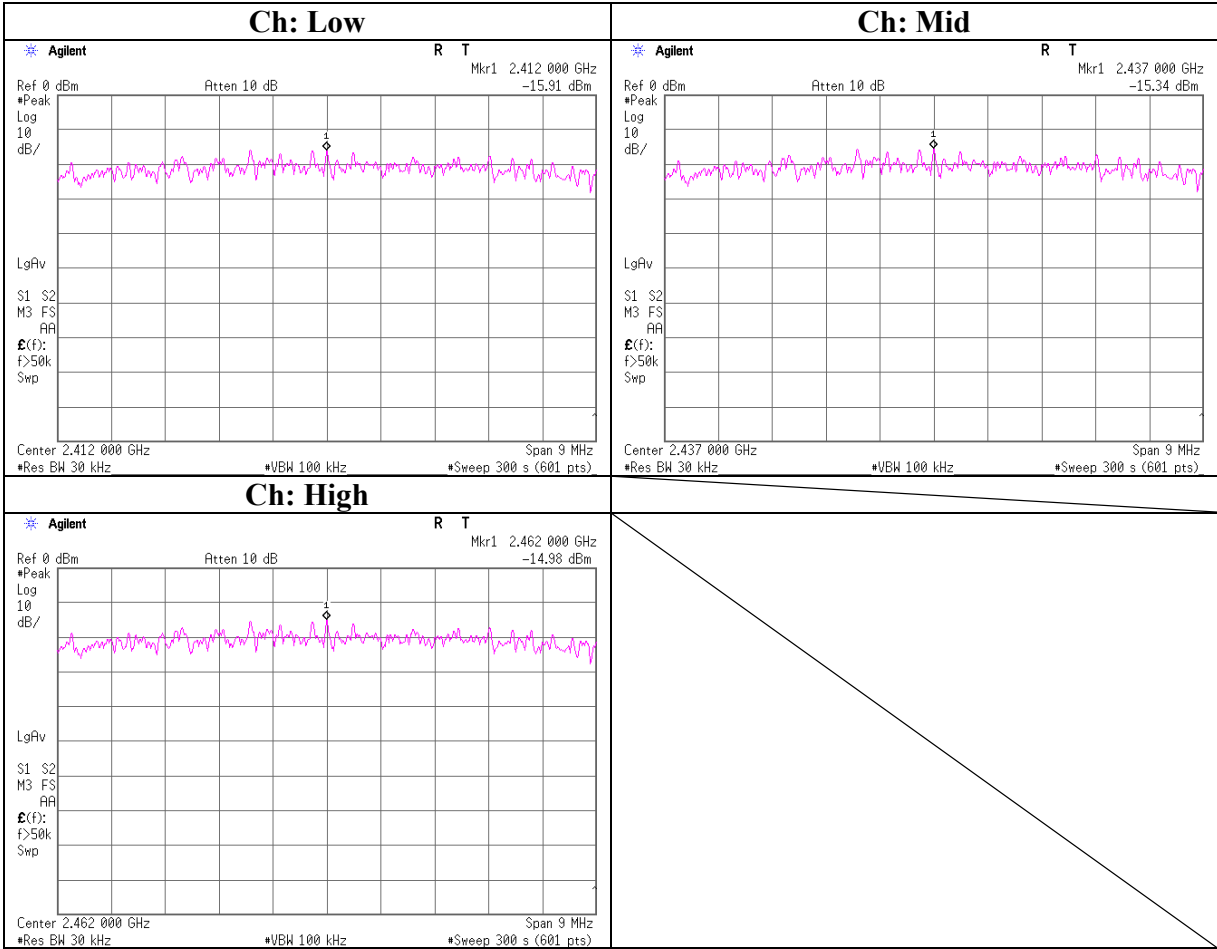
Head Office EMC Lab.

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

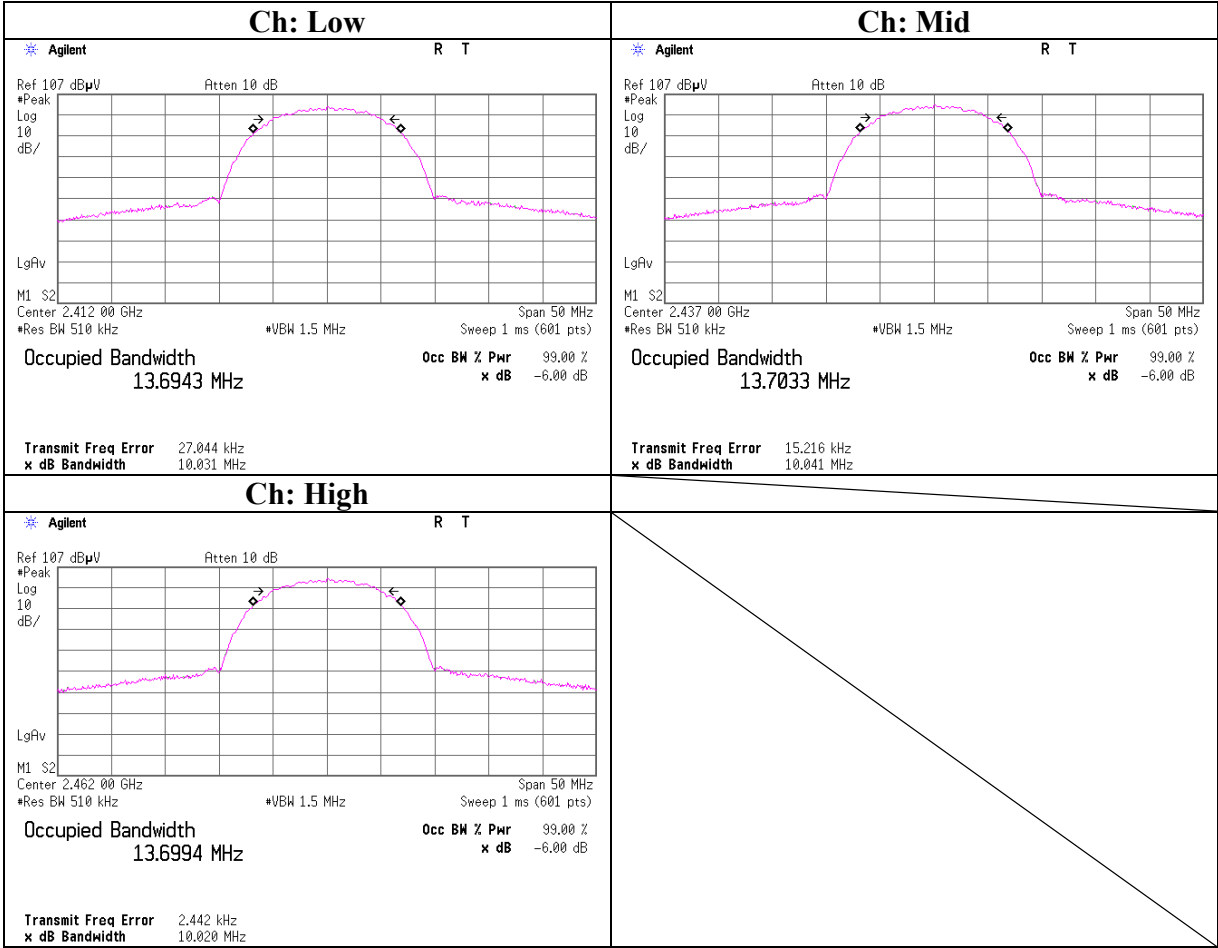
Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

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	BBHA9170307	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

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

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

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