

**APPENDIX 2: Data of EMI test**

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

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber  
 Date : 2007/11/19

Company	: SONY CORPORATION	Report No.	: 28BE0121-HO-02
Kind of EUT	: Personal Communicator	Power	: AC120V / 60Hz
Model No.	: COM-2	Temp./Humi.	: 23deg. C / 31%
Serial No.	: 30610230 3000044	Operator	: Hisayoshi Sato

Mode / Remarks : Transmitting 11b 2412MHz 11Mbps

LIMIT : FCC15.207 OP  
FCC15.207 AV

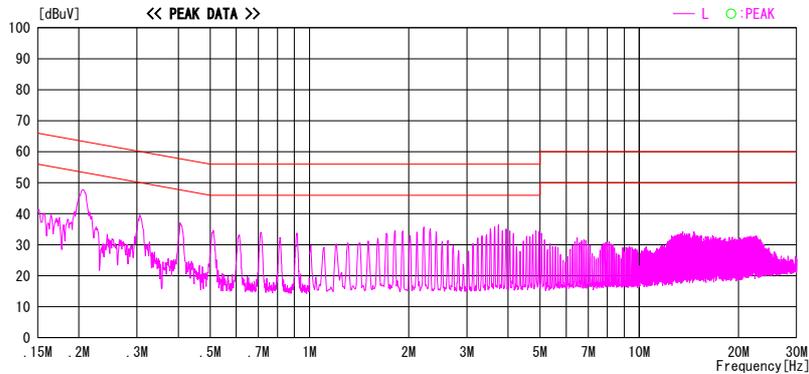
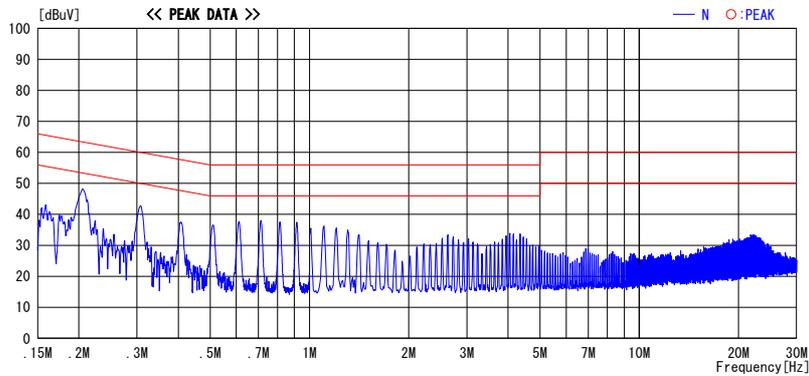


CHART: WITH FACTOR. Peak hold data. CALCULATION: RESULT[dBuV]=READING[dBuV]+C. F[dB] (Probe Fac+CABLE LOSS)  
 Data is uncorrected. Except for the above table: adequate margin data below the limits.

\*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.**  
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## Conducted Emission

### Tx, 11b, Ch:Mid

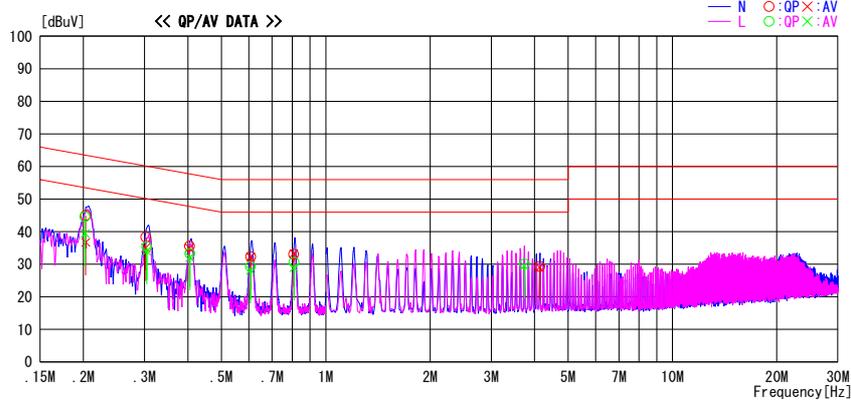
### DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber  
Date : 2007/11/19

Company : SONY CORPORATION	Report No. : 28BE0121-HO-02
Kind of EUT : Personal Communicator	Power : AC120V / 60Hz
Model No. : COM-2	Temp./Humi. : 23deg. C / 31%
Serial No. : 30610230 3000044	Operator : Hisayoshi Sato

Mode / Remarks : Transmitting 11b 2437MHz 11Mbps

LIMIT : FCC15.207 QP  
FCC15.207 AV



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]	
0.20220	44.2	39.1	0.4	44.6	39.5	63.5	53.5	18.9	14.0	L
0.30446	35.0	33.6	0.4	35.4	34.0	60.1	50.1	24.7	16.1	L
0.40530	32.8	31.7	0.4	33.2	32.1	57.7	47.7	24.5	15.6	L
0.60647	28.9	27.7	0.4	29.3	28.1	56.0	46.0	26.7	17.9	L
0.80905	30.2	28.6	0.4	30.6	29.0	56.0	46.0	25.4	17.0	L
3.73955	29.1	28.6	1.0	30.1	29.6	56.0	46.0	25.9	16.4	L
0.20295	44.6	36.3	0.4	45.0	36.7	63.5	53.5	18.5	16.8	N
0.30235	37.9	34.6	0.4	38.3	35.0	60.2	50.2	21.9	15.2	N
0.40465	35.2	34.6	0.4	35.6	35.0	57.9	47.8	22.2	12.8	N
0.60710	31.9	31.9	0.4	32.3	32.3	56.0	46.0	23.7	13.7	N
0.80841	32.6	32.9	0.4	33.0	33.3	56.0	46.0	23.0	12.7	N
4.14031	28.1	27.9	1.2	29.3	29.1	56.0	46.0	26.7	16.9	N

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

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

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**Head Office EMC Lab.**  
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**Conducted Emission**  
**Tx, 11b, Ch:High**

**DATA OF CONDUCTED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber  
Date : 2007/11/19

Company : SONY CORPORATION  
Kind of EUT : Personal Communicator  
Model No. : COM-2  
Serial No. : 30610230 3000044  
Report No. : 28BE0121-HO-02  
Power : AC120V / 60Hz  
Temp./Humi. : 23deg. C / 31%  
Operator : Hisayoshi Sato

Mode / Remarks : Transmitting 11b 2462MHz 11Mbps

LIMIT : FCC15.207 QP  
FCC15.207 AV

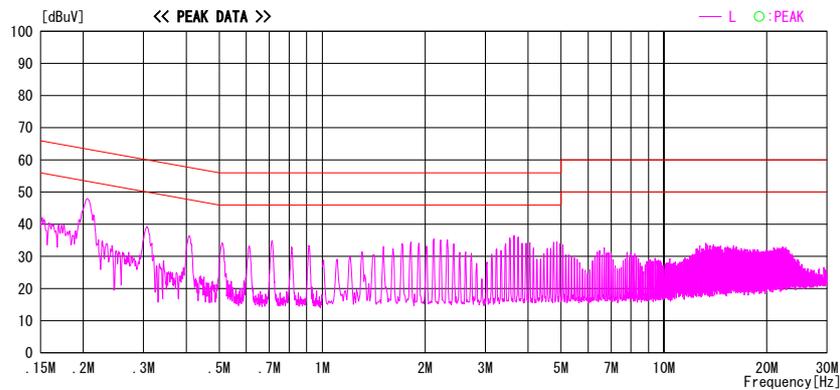
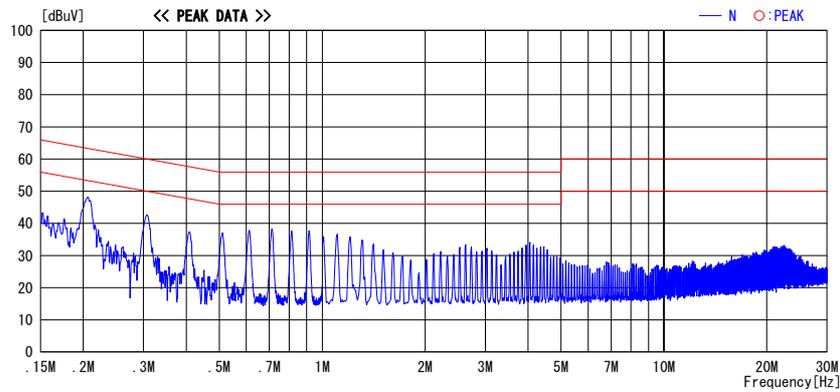


CHART: WITH FACTOR. Peak hold data. CALCURATION: RESULT[dBuA]=READING[dBuV]+C. F[dB] (Probe Fac+CABLE LOSS)  
Data is uncorrected. Except for the above table: adequate margin data below the limits.

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

**DATA OF CONDUCTED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber  
 Date : 2007/11/19

Company	: SONY CORPORATION	Report No.	: 28BE0121-HO-02
Kind of EUT	: Personal Communicator	Power	: AC120V / 60Hz
Model No.	: COM-2	Temp./Humi.	: 23deg. C / 31%
Serial No.	: 30610230 3000044	Operator	: Hisayoshi Sato

Mode / Remarks : Transmitting 11g 2412MHz 48Mbps

LIMIT : FCC15.207 QP  
FCC15.207 AV

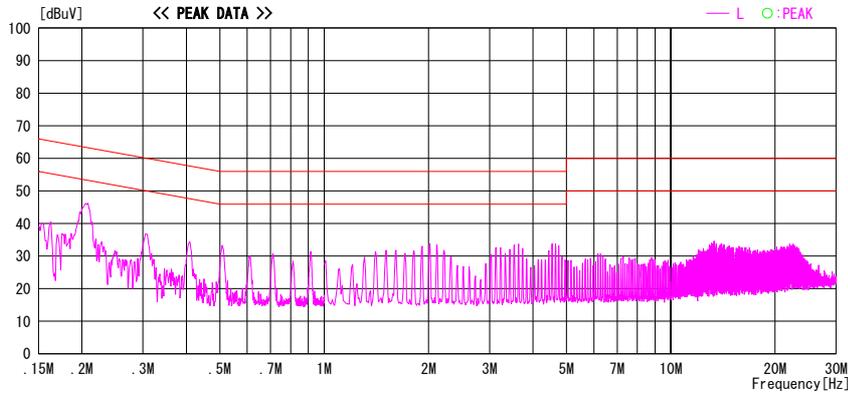
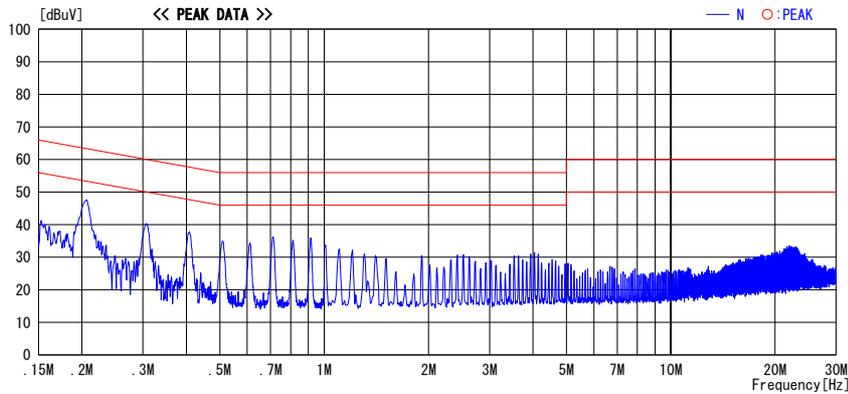


CHART: WITH FACTOR, Peak hold data. CALCURATION: RESULT[dBuA]=READING[dBuV]+C. F[dB] (Probe Fac+CABLE LOSS)  
 Data is uncorrected. Except for the above table: adequate margin data below the limits.

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## Conducted Emission

### Tx, 11g, Ch:Mid

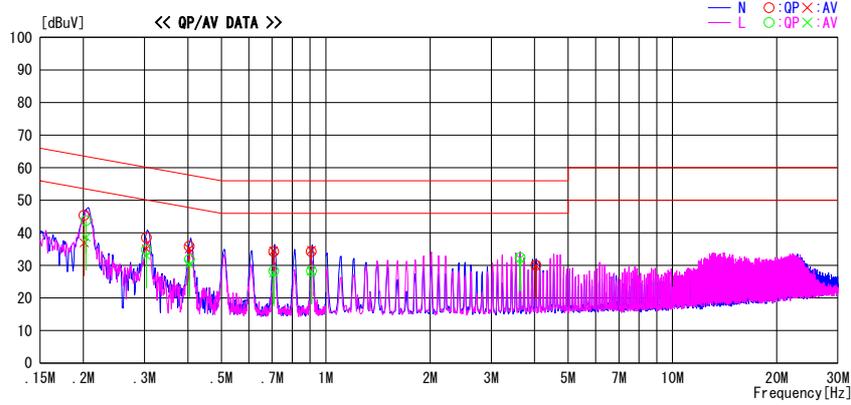
#### DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber  
 Date : 2007/11/19

Company : SONY CORPORATION  
 Kind of EUT : Personal Communicator  
 Model No. : COM-2  
 Serial No. : 30610230 3000044  
 Report No. : 28BE0121-HO-02  
 Power : AC120V / 60Hz  
 Temp./Humi. : 23deg.C / 31%  
 Operator : Hisayoshi Sato

Mode / Remarks : Transmitting 11g 2437MHz 48Mbps

LIMIT : FCC15.207 QP  
 FCC15.207 AV



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]	
0.20355	43.4	38.2	0.4	43.8	38.6	63.5	53.5	19.7	14.9	L
0.20088	45.0	36.5	0.4	45.4	36.9	63.6	53.6	18.2	16.7	N
0.30365	34.4	32.6	0.4	34.8	33.0	60.1	50.1	25.3	17.1	L
0.30360	38.1	34.7	0.4	38.5	35.1	60.1	50.1	21.6	15.0	N
0.40468	31.4	30.0	0.4	31.8	30.4	57.8	47.8	26.0	17.4	L
0.40418	35.5	34.7	0.4	35.9	35.1	57.8	47.8	21.9	12.7	N
0.70674	27.9	27.2	0.4	28.3	27.6	56.0	46.0	27.7	18.4	L
0.70731	33.9	34.1	0.4	34.3	34.5	56.0	46.0	21.7	11.5	N
0.90833	33.9	34.3	0.4	34.3	34.7	56.0	46.0	21.7	11.3	N
0.90892	27.9	27.8	0.4	28.3	28.2	56.0	46.0	27.7	17.8	L
3.63427	31.3	31.1	1.0	32.3	32.1	56.0	46.0	23.7	13.9	L
4.03773	28.8	28.8	1.2	30.0	30.0	56.0	46.0	26.0	16.0	N

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

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

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

**DATA OF CONDUCTED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber  
Date : 2007/11/19

Company	: SONY CORPORATION	Report No.	: 28BE0121-HO-02
Kind of EUT	: Personal Communicator	Power	: AC120V / 60Hz
Model No.	: COM-2	Temp./Humi.	: 23deg.C / 31%
Serial No.	: 30610230 3000044	Operator	: Hisayoshi Sato

Mode / Remarks : Transmitting 11g 2462MHz 48Mbps

LIMIT : FCC15.207 OP  
FCC15.207 AV

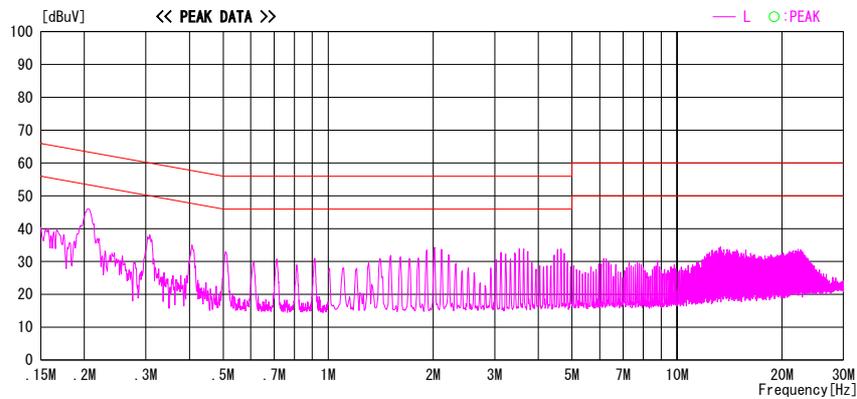
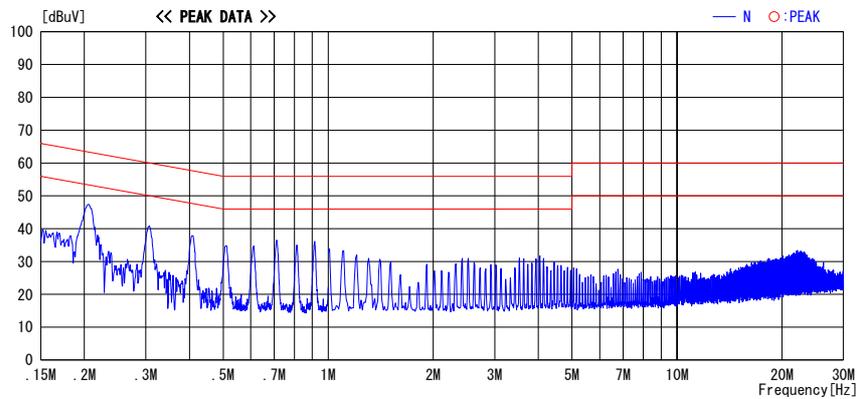


CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT [dBuA] = READING [dBuV] + C, F [dB] (Probe Fac + CABLE LOSS)  
Data is uncorrected. Except for the above table: adequate margin data below the limits.

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## Conducted Emission

### Rx, 11b, Ch:Mid

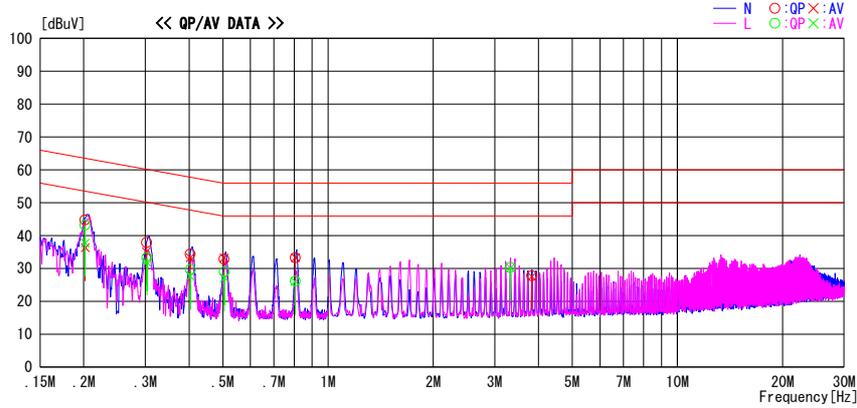
#### DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber  
 Date : 2007/11/20

Company : SONY CORPORATION	Report No. : 28BE0121-HO-02
Kind of EUT : Personal Communicator	Power : AC120V / 60Hz
Model No. : COM-2	Temp./Humi. : 23deg. C / 31%
Serial No. : 30610230 3000044	Operator : Hisayoshi Sato

Mode / Remarks : Receiving 11b 2437MHz

LIMIT : FCC15.207 QP  
FCC15.207 AV



Frequency [MHz]	Reading Level		Corr. Factor [dB]	Results		Limit		Margin		Phase
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]	
0.20166	44.4	35.9	0.4	44.8	36.3	63.5	53.5	18.7	17.2	N
0.30249	37.5	34.7	0.4	37.9	35.1	60.2	50.2	22.3	15.1	N
0.40330	34.0	32.9	0.4	34.4	33.3	57.8	47.8	23.4	14.5	N
0.50396	32.4	32.8	0.4	32.8	33.2	56.0	46.0	23.2	12.8	N
0.80627	32.8	32.9	0.4	33.2	33.3	56.0	46.0	22.8	12.7	N
3.82941	26.8	26.5	1.0	27.8	27.5	56.0	46.0	28.2	18.5	N
0.20175	42.7	37.3	0.4	43.1	37.7	63.5	53.5	20.4	15.8	L
0.30315	32.8	31.5	0.4	33.2	31.9	60.2	50.2	27.0	18.3	L
0.40378	29.3	27.2	0.4	29.7	27.6	57.8	47.8	28.1	20.2	L
0.50496	28.6	26.7	0.4	29.0	27.1	56.0	46.0	27.0	18.9	L
0.80571	25.8	25.6	0.4	26.2	26.0	56.0	46.0	29.8	20.0	L
3.32388	29.4	29.3	0.9	30.3	30.2	56.0	46.0	25.7	15.8	L

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

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 Facsimile : +81 596 24 8124

## Conducted Emission

### Rx, 11g, Ch:Mid

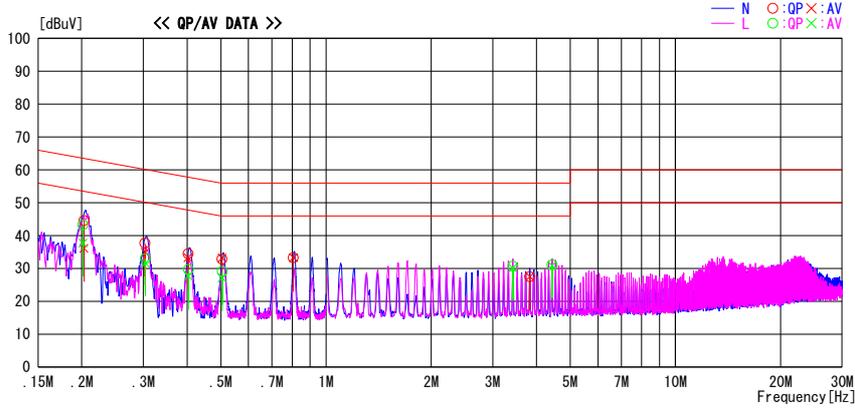
#### DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber  
 Date : 2007/11/20

Company : SONY CORPORATION Kind of EUT : Personal Communicator Model No. : COM-2 Serial No. : 30610230 3000044	Report No. : 28BE0121-HO-02 Power : AC120V / 60Hz Temp./Humi. : 23deg. C / 31% Operator : Hisayoshi Sato
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Mode / Remarks : Receiving 11g 2437MHz

LIMIT : FCC15.207 QP  
 FCC15.207 AV



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]	
0.20279	44.2	35.7	0.4	44.6	36.1	63.5	53.5	18.9	17.4	N
0.30342	37.3	34.5	0.4	37.7	34.9	60.1	50.1	22.4	15.2	N
0.40275	34.1	32.9	0.4	34.5	33.3	57.8	47.8	23.3	14.5	N
0.50393	32.4	32.8	0.4	32.8	33.2	56.0	46.0	23.2	12.8	N
0.80643	32.8	32.9	0.4	33.2	33.3	56.0	46.0	22.8	12.7	N
3.83003	26.5	26.5	1.0	27.5	27.5	56.0	46.0	28.5	18.5	N
0.20142	42.8	37.3	0.4	43.2	37.7	63.6	53.6	20.4	15.9	L
0.30392	32.5	31.2	0.4	32.9	31.6	60.1	50.1	27.2	18.5	L
0.40379	29.3	27.2	0.4	29.7	27.6	57.8	47.8	28.1	20.2	L
0.50458	28.7	26.7	0.4	29.1	27.1	56.0	46.0	26.9	18.9	L
3.42682	29.8	29.3	0.9	30.7	30.2	56.0	46.0	25.3	15.8	L
4.43460	29.8	29.6	1.3	31.1	30.9	56.0	46.0	24.9	15.1	L

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

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

## 6dB Bandwidth

UL Japan, Inc.  
Head Office EMC Lab. No.3 Preparation room

Company : SONY CORPORATION.  
Equipment : Personal Communicator  
Model No. : COM-2  
Serial No. : 30610230 3000044  
Power : AC120V/60Hz  
Mode : Transmitting 11b 11Mbps, 11g 48Mbps

Test Report No. : 28BE0121-HO-02  
Regulation : FCC15.247(a)(2)/RSS-210A8.2(a)  
Test distance : -  
Date : 11/20/2007  
Temperature : 24°C  
Humidity : 35%  
Engineer : Hisayoshi Sato

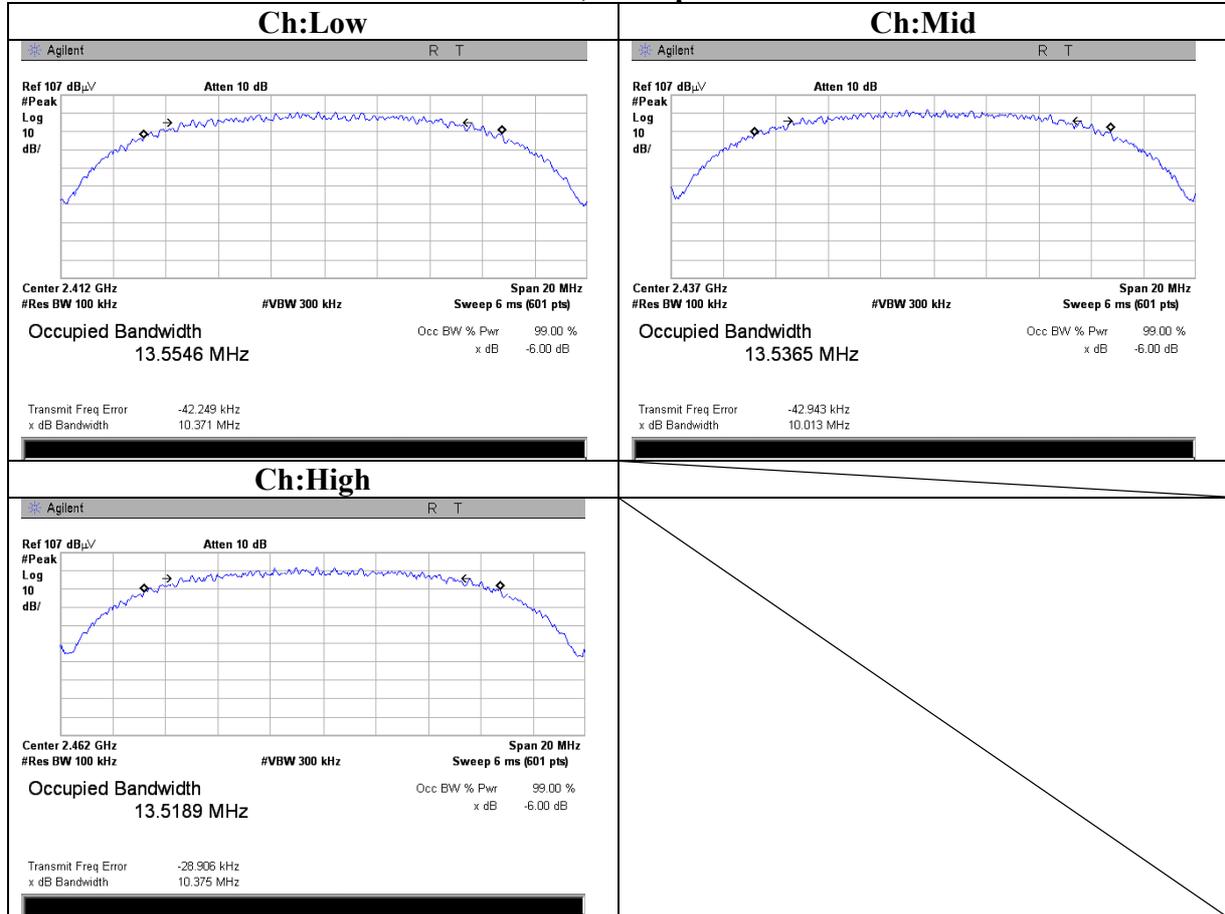
### [IEEE802.11b 11Mbps]

Ch	Freq. [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
Low	2412.0	10.371	>500
Mid	2437.0	10.013	>500
High	2462.0	10.375	>500

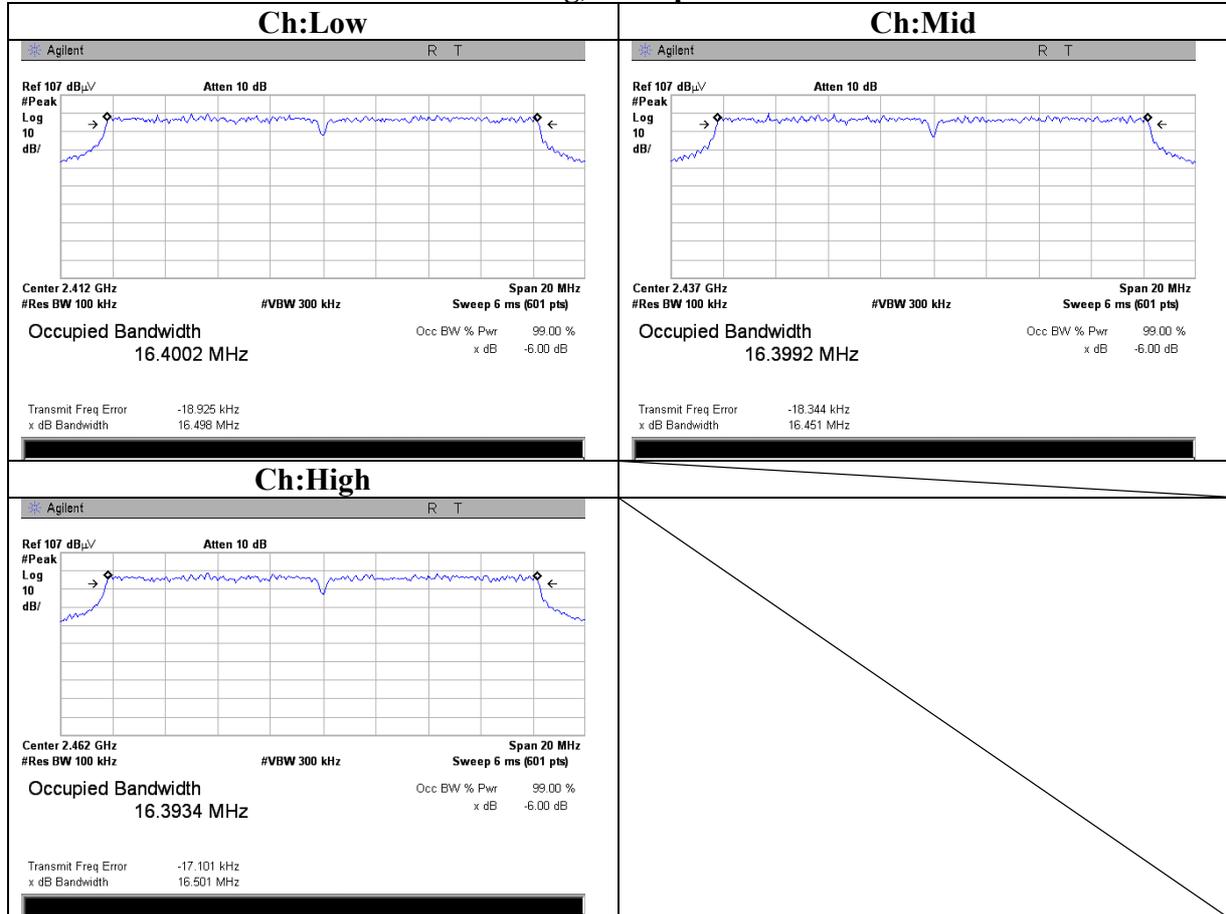
### [IEEE802.11g 48Mbps]

Ch	Freq. [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
Low	2412.0	16.498	>500
Mid	2437.0	16.451	>500
High	2462.0	16.501	>500

**6dB Bandwidth**  
**11b, 11Mbps**



**6dB Bandwidth**  
**11g, 48Mbps**



## Maximum Peak Output Power

UL Japan, Inc.  
 Head Office EMC Lab. No.7 Shielded Room

Company	: SONY CORPORATION.	Test Report No.	: 28BE0121-HO-02
Equipment	: Personal Communicator	Regulation	: FCC15.247(b)(3)/RSS-210A8.4(4)
Model No.	: COM-2	Test distance	: -
Serial No.	: 30610230 3000044	Date	: 11/15/2007
Power	: AC120V/60Hz	Temperature	: 25deg.C.
Mode	: Transmitting 11b 11Mbps, 11g 48Mbps	Humidity	: 35%
		Engineer	: Hisayoshi Sato

### [IEEE802.11b] Peak power

Modulation	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
11Mbps	2412.0	3.15	0.60	10.02	13.77	23.82	30.00	1000	16.23
11Mbps	2437.0	3.92	0.60	10.02	14.54	28.44	30.00	1000	15.46
11Mbps	2462.0	3.56	0.60	10.02	14.18	26.18	30.00	1000	15.82

### [IEEE802.11g] Peak power

Modulation	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
48Mbps	2412.0	10.66	0.60	10.02	21.28	134.28	30.00	1000	8.72
48Mbps	2437.0	11.04	0.60	10.02	21.66	146.55	30.00	1000	8.34
48Mbps	2462.0	10.68	0.60	10.02	21.30	134.90	30.00	1000	8.70

Sample Calculation:

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

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

**Maximum Peak Output Power**  
**[Maximum rated power check]**

UL Japan, Inc.  
Head Office EMC Lab. No.7 Shielded Room

Company	: SONY CORPORATION.	Test Report No.	: 28BE0121-HO-02
Equipment	: Personal Communicator	Regulation	: FCC15.247(b)(3)/RSS-210A8.4(4)
Model No.	: COM-2	Test distance	: -
Serial No.	: 30610230 3000044	Date	: 11/15/2007
Power	: AC120V/60Hz	Temperature	: 25deg.C.
Mode	: Transmitting 11b , 11g	Humidity	: 35%
		Engineer	: Hisayoshi Sato

**[IEEE802.11b] Peak power**

Modulation	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
1Mbps	2437.0	3.33	0.60	10.02	13.95	24.83	30.00	1000	16.05
2Mbps	2437.0	3.65	0.60	10.02	14.27	26.73	30.00	1000	15.73
5.5Mbps	2437.0	3.50	0.60	10.02	14.12	25.82	30.00	1000	15.88
11Mbps	2437.0	3.92	0.60	10.02	14.54	28.44	30.00	1000	15.46

**Maximum**

**[IEEE802.11g] Peak power**

Modulation	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
6Mbps	2437.0	10.83	0.60	10.02	21.45	139.64	30.00	1000	8.55
9Mbps	2437.0	10.54	0.60	10.02	21.16	130.62	30.00	1000	8.84
12Mbps	2437.0	10.96	0.60	10.02	21.58	143.88	30.00	1000	8.42
18Mbps	2437.0	10.47	0.60	10.02	21.09	128.53	30.00	1000	8.91
24Mbps	2437.0	10.89	0.60	10.02	21.51	141.58	30.00	1000	8.49
36Mbps	2437.0	10.96	0.60	10.02	21.58	143.88	30.00	1000	8.42
48Mbps	2437.0	11.04	0.60	10.02	21.66	146.55	30.00	1000	8.34
54Mbps	2437.0	10.35	0.60	10.02	20.97	125.03	30.00	1000	9.03

**Maximum**

Sample Calculation:

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

\* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

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

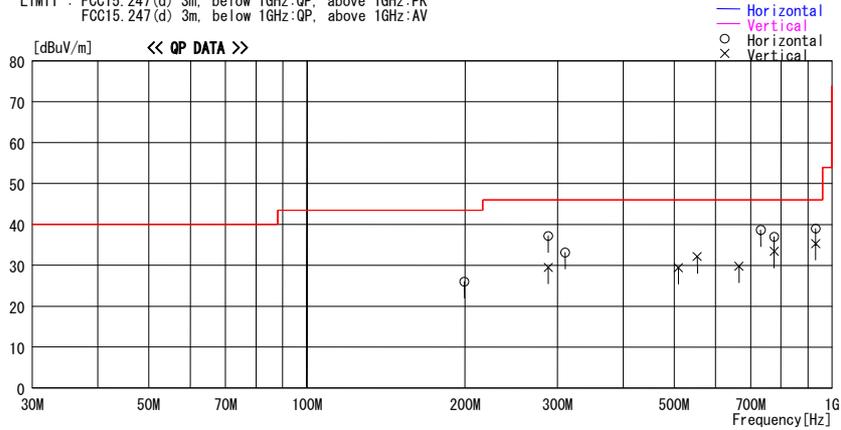
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No. 2 Semi Anechoic Chamber  
 Date : 2007/11/16

Applicant : SONY CORPORATION  
 Kind of EUT : Personal Communicator  
 Model No. : COM-2  
 Serial No. : 30610230 3000044  
 Report No. : 28BE0121-HO-02  
 Power : AC120V / 60Hz  
 Temp./Humi. : 25deg. C. / 32%  
 Operator : Hisayoshi Sato

Mode / Remarks : Transmitting 11b 2412MHz 11Mbps (Worst-axis Hor:Y, Ver:Z)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP, above 1GHz:PK  
 FCC15.247(d) 3m, below 1GHz:QP, above 1GHz:AV



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Gain [dB]						
199.515	29.3	QP	16.6	-19.9	26.0	326	300	Hori.	43.5	17.5
288.177	29.2	QP	19.4	-19.1	29.5	112	100	Vert.	46.0	16.5
288.150	36.9	QP	19.4	-19.1	37.2	301	100	Hori.	46.0	8.8
310.322	37.6	QP	14.7	-19.1	33.2	311	113	Hori.	46.0	12.8
509.839	31.3	QP	17.6	-19.5	29.4	90	100	Vert.	46.0	16.6
554.161	32.8	QP	18.5	-19.2	32.1	62	100	Vert.	46.0	13.9
664.975	28.3	QP	20.2	-18.7	29.8	188	100	Vert.	46.0	16.2
731.494	35.8	QP	21.1	-18.3	38.6	197	117	Hori.	46.0	7.4
775.828	33.3	QP	21.5	-17.9	36.9	201	113	Hori.	46.0	9.1
775.832	29.8	QP	21.5	-17.9	33.4	44	100	Vert.	46.0	12.6
930.975	33.7	QP	22.2	-16.9	39.0	188	100	Hori.	46.0	7.0
930.989	30.0	QP	22.2	-16.9	35.3	296	100	Vert.	46.0	10.7

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

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

**Radiated Spurious Emission (below 1GHz)**  
**Tx, 11b, Ch:Mid**

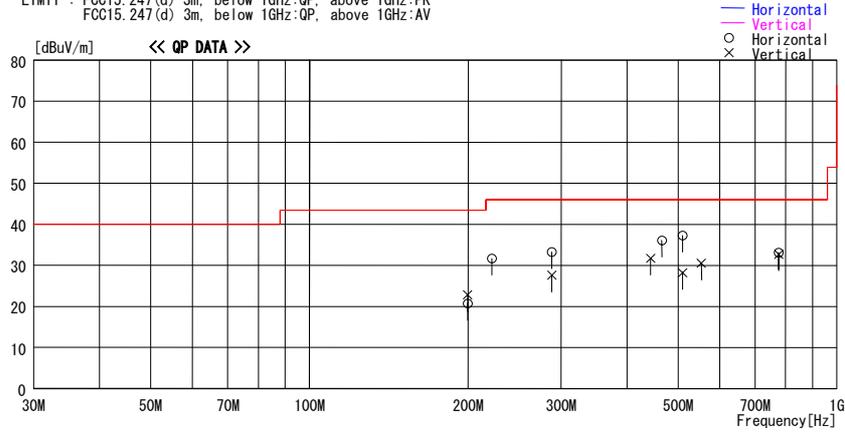
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No. 2 Semi Anechoic Chamber  
 Date : 2007/11/16

Applicant : SONY CORPORATION  
 Kind of EUT : Personal Communicator  
 Model No. : COM-2  
 Serial No. : 30610230 3000044  
 Report No. : 28BE0121-HO-02  
 Power : AC120V / 60Hz  
 Temp./Humi. : 25deg.C. / 32%  
 Operator : Hisayoshi Sato

Mode / Remarks : Transmitting 11b 2437MHz 11Mbps (Worst-axis Hor:Y, Ver:Z)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP, above 1GHz:PK  
 FCC15.247(d) 3m, below 1GHz:QP, above 1GHz:AV



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]						
199.619	26.1	QP	16.6	-19.9	22.8	40	100	Vert.	43.5	20.7
199.649	24.0	QP	16.6	-19.9	20.7	317	326	Hori.	43.5	22.8
221.665	34.5	QP	16.8	-19.6	31.7	20	100	Hori.	46.0	14.3
288.143	27.3	QP	19.4	-19.1	27.6	112	100	Vert.	46.0	18.4
288.165	32.9	QP	19.4	-19.1	33.2	330	100	Hori.	46.0	12.8
443.320	33.7	QP	17.4	-19.4	31.7	100	100	Vert.	46.0	14.3
465.497	38.1	QP	17.4	-19.5	36.0	223	100	Hori.	46.0	10.0
509.829	39.2	QP	17.6	-19.5	37.3	178	278	Hori.	46.0	8.7
509.948	30.1	QP	17.6	-19.5	28.2	62	100	Vert.	46.0	17.8
554.183	31.2	QP	18.5	-19.2	30.5	151	110	Vert.	46.0	15.5
775.840	29.5	QP	21.5	-17.9	33.1	197	100	Hori.	46.0	12.9
775.903	29.1	QP	21.5	-17.9	32.7	44	100	Vert.	46.0	13.3

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

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

**Radiated Spurious Emission (below 1GHz)**  
**Tx, 11b, Ch:High**

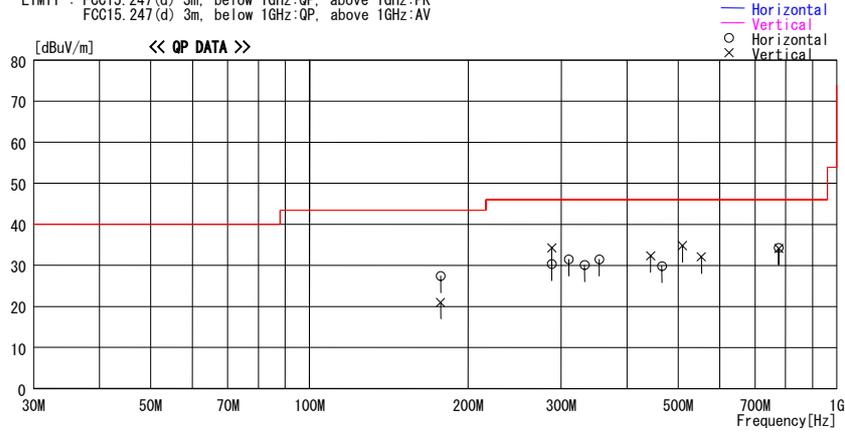
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No. 2 Semi Anechoic Chamber  
 Date : 2007/11/16

Applicant : SONY CORPORATION  
 Kind of EUT : Personal Communicator  
 Model No. : COM-2  
 Serial No. : 30610230 3000044  
 Report No. : 28BE0121-HO-02  
 Power : AC120V / 60Hz  
 Temp./Humi. : 25deg.C. / 32%  
 Operator : Hisayoshi Sato

Mode / Remarks : Transmitting 11b 2462MHz 11Mbps (Worst-axis Hor:Y, Ver:Z)

LIMIT : FCC15.247 (d) 3m, below 1GHz:QP, above 1GHz:PK  
 FCC15.247 (d) 3m, below 1GHz:QP, above 1GHz:AV



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Gain [dB]						
177.334	25.0	QP	16.2	-20.2	21.0	86	100	Vert.	43.5	22.5
177.334	31.4	QP	16.2	-20.2	27.4	37	174	Hori.	43.5	16.1
288.165	30.0	QP	19.4	-19.1	30.3	202	400	Hori.	46.0	15.7
288.168	33.9	QP	19.4	-19.1	34.2	281	147	Vert.	46.0	11.8
310.335	35.8	QP	14.7	-19.1	31.4	26	100	Hori.	46.0	14.6
332.497	33.9	QP	15.4	-19.2	30.1	359	100	Hori.	46.0	15.9
354.665	34.5	QP	16.1	-19.2	31.4	132	100	Hori.	46.0	14.6
443.331	34.3	QP	17.4	-19.4	32.3	80	117	Vert.	46.0	13.7
465.498	31.9	QP	17.4	-19.5	29.8	131	100	Hori.	46.0	16.2
509.830	36.7	QP	17.6	-19.5	34.8	251	100	Vert.	46.0	11.2
554.167	32.7	QP	18.5	-19.2	32.0	176	212	Vert.	46.0	14.0
775.828	30.7	QP	21.5	-17.9	34.3	203	119	Hori.	46.0	11.7
775.829	30.5	QP	21.5	-17.9	34.1	354	100	Vert.	46.0	11.9

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

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

**Radiated Spurious Emission (below 1GHz)**  
**Tx, 11g, Ch:Low**

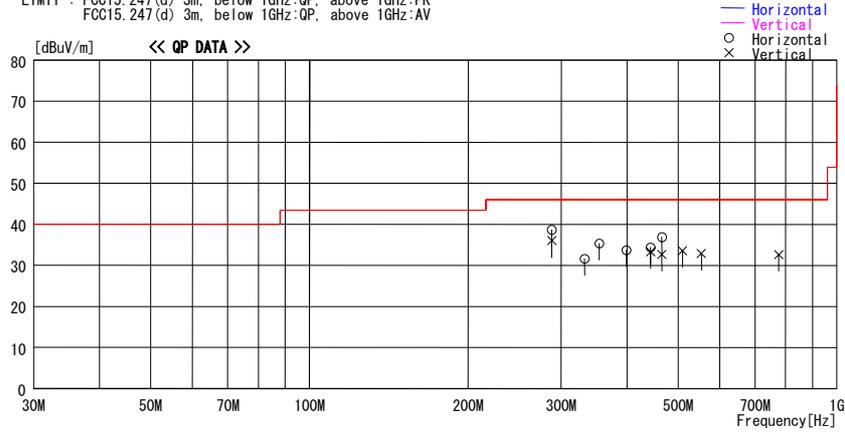
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No. 2 Semi Anechoic Chamber  
 Date : 2007/11/16

Applicant : SONY CORPORATION  
 Kind of EUT : Personal Communicator  
 Model No. : COM-2  
 Serial No. : 30610230 3000044  
 Report No. : 28BE0121-HO-02  
 Power : AC120V / 60Hz  
 Temp./Humi. : 25deg.C. / 32%  
 Operator : Hisayoshi Sato

Mode / Remarks : Transmitting 11g 2412MHz 48Mbps (Worst-axis Hor:Y, Ver:Z)

LIMIT : FCC15.247 (d) 3m, below 1GHz:QP, above 1GHz:PK  
 FCC15.247 (d) 3m, below 1GHz:QP, above 1GHz:AV



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Gain [dB]						
288.168	38.3	QP	19.4	-19.1	38.6	84	117	Hori.	46.0	7.4
332.498	35.4	QP	15.4	-19.2	31.6	0	100	Hori.	46.0	14.4
354.665	38.4	QP	16.1	-19.2	35.3	68	100	Hori.	46.0	10.7
398.996	35.5	QP	17.4	-19.2	33.7	0	100	Hori.	46.0	12.3
443.333	36.3	QP	17.4	-19.4	34.3	340	100	Hori.	46.0	11.7
465.499	38.9	QP	17.4	-19.5	36.8	332	100	Hori.	46.0	9.2
288.167	35.7	QP	19.4	-19.1	36.0	336	100	Vert.	46.0	10.0
443.332	35.3	QP	17.4	-19.4	33.3	85	124	Vert.	46.0	12.7
465.501	34.8	QP	17.4	-19.5	32.7	89	100	Vert.	46.0	13.3
509.832	35.5	QP	17.6	-19.5	33.6	151	100	Vert.	46.0	12.4
554.165	33.6	QP	18.5	-19.2	32.9	145	100	Vert.	46.0	13.1
775.830	29.1	QP	21.5	-17.9	32.7	296	100	Vert.	46.0	13.4

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

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

**Radiated Spurious Emission (below 1GHz)**  
**Tx, 11g, Ch:Mid**

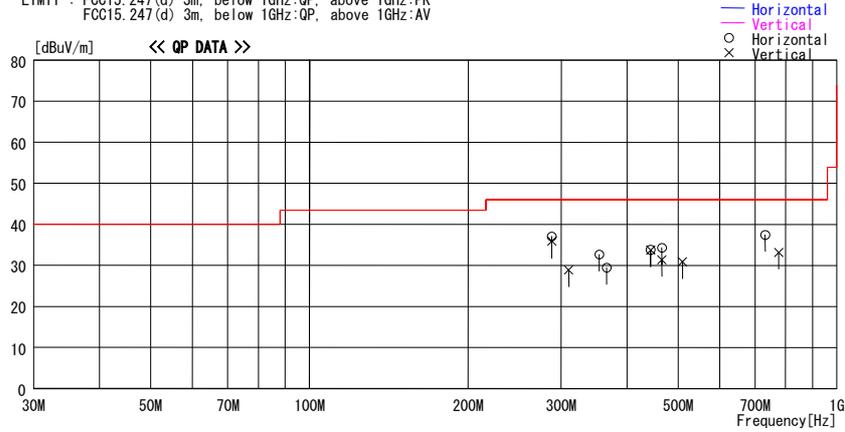
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber  
 Date : 2007/11/16

Applicant : SONY CORPORATION  
 Kind of EUT : Personal Communicator  
 Model No. : COM-2  
 Serial No. : 30610230 3000044  
 Report No. : 28BE0121-HO-02  
 Power : AC120V / 60Hz  
 Temp./Humi. : 25deg.C. / 32%  
 Operator : Hisayoshi Sato

Mode / Remarks : Transmitting 11g 2437MHz 48Mbps (Worst-axis Hor:Y, Ver:Z)

LIMIT : FCC15.247 (d) 3m, below 1GHz:QP, above 1GHz:PK  
 FCC15.247 (d) 3m, below 1GHz:QP, above 1GHz:AV



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]						
288.167	36.7	QP	19.4	-19.1	37.0	0	400	Hori.	46.0	9.0
288.169	35.5	QP	19.4	-19.1	35.8	50	100	Vert.	46.0	10.2
310.332	33.3	QP	14.7	-19.1	28.9	221	116	Vert.	46.0	17.1
354.668	35.7	QP	16.1	-19.2	32.6	71	100	Hori.	46.0	13.4
366.037	32.2	QP	16.5	-19.2	29.5	189	100	Hori.	46.0	16.6
443.332	35.7	QP	17.4	-19.4	33.7	85	117	Vert.	46.0	12.3
443.332	35.8	QP	17.4	-19.4	33.8	335	100	Hori.	46.0	12.2
465.497	36.4	QP	17.4	-19.5	34.3	327	100	Hori.	46.0	11.7
465.498	33.5	QP	17.4	-19.5	31.4	86	117	Vert.	46.0	14.7
509.833	32.7	QP	17.6	-19.5	30.8	281	100	Vert.	46.0	15.2
731.496	34.6	QP	21.1	-18.3	37.4	195	117	Hori.	46.0	8.6
775.833	29.5	QP	21.5	-17.9	33.1	307	100	Vert.	46.0	12.9

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

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

**Radiated Spurious Emission (below 1GHz)**  
**Tx, 11g, Ch:High**

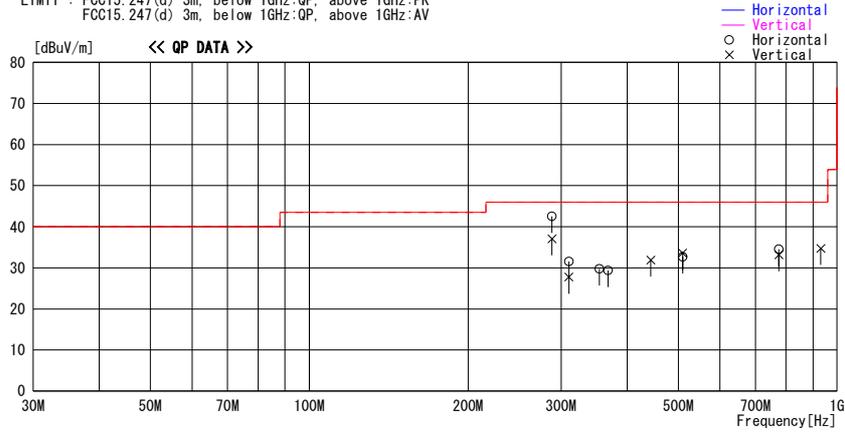
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No. 2 Semi Anechoic Chamber  
 Date : 2007/11/16

Applicant : SONY CORPORATION  
 Kind of EUT : Personal Communicator  
 Model No. : COM-02  
 Serial No. : 30610230 3000044  
 Report No. : 28BE0121-HO-02  
 Power : AC120V / 60Hz  
 Temp./Humi. : 25deg. C. / 32%  
 Operator : Hisayoshi Sato

Mode / Remarks : Transmitting 11g 2462MHz 48Mbps (Worst-axis Hor:Y, Ver:Z)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP, above 1GHz:PK  
 FCC15.247(d) 3m, below 1GHz:QP, above 1GHz:AV



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]						
288.166	42.2	QP	19.4	-19.1	42.5	18	117	Hori.	46.0	3.5
288.166	36.8	QP	19.4	-19.1	37.1	338	100	Vert.	46.0	8.9
310.332	32.2	QP	14.7	-19.1	27.8	227	151	Vert.	46.0	18.3
310.333	35.9	QP	14.7	-19.1	31.5	9	100	Hori.	46.0	14.5
354.666	32.9	QP	16.1	-19.2	29.8	11	100	Hori.	46.0	16.2
368.110	32.1	QP	16.5	-19.2	29.4	362	100	Hori.	46.0	16.7
443.333	33.9	QP	17.4	-19.4	31.9	79	117	Vert.	46.0	14.1
509.827	34.6	QP	17.6	-19.5	32.7	178	100	Hori.	46.0	13.3
509.832	35.5	QP	17.6	-19.5	33.6	282	100	Vert.	46.0	12.5
775.829	30.9	QP	21.5	-17.9	34.5	195	108	Hori.	46.0	11.5
775.830	29.6	QP	21.5	-17.9	33.2	342	100	Vert.	46.0	12.8
930.994	29.4	QP	22.2	-16.9	34.7	199	119	Vert.	46.0	11.3

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

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

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

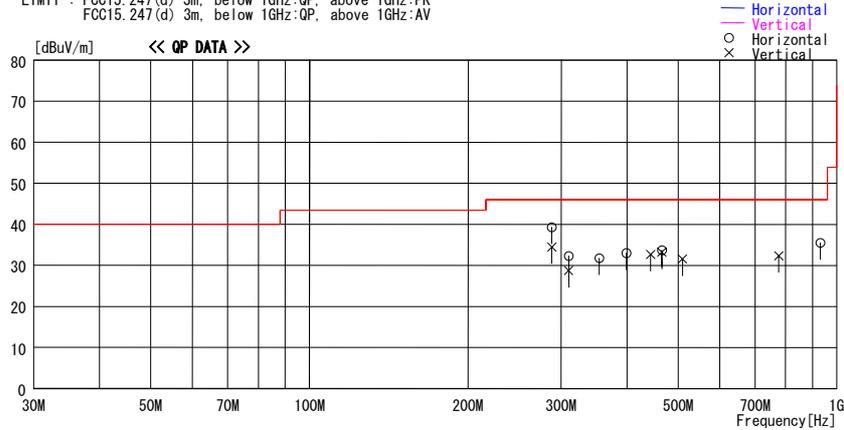
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No. 2 Semi Anechoic Chamber  
 Date : 2007/11/16

Applicant : SONY CORPORATION  
 Kind of EUT : Personal Communicator  
 Model No. : COM-2  
 Serial No. : 30610230 3000044  
 Report No. : 28BE0121-HO-02  
 Power : AC120V / 60Hz  
 Temp./Humi. : 25deg.C. / 32%  
 Operator : Hisayoshi Sato

Mode / Remarks : Receiving 11b 2437MHz (Worst-axis Hor:Y, Ver:Z)

LIMIT : FCC15.247(d) 3m, below 1GHz:QP, above 1GHz:PK  
 FCC15.247(d) 3m, below 1GHz:QP, above 1GHz:AV



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Gain [dB]						
288.167	39.0	QP	19.4	-19.1	39.3	11	110	Hori.	46.0	6.7
288.169	34.2	QP	19.4	-19.1	34.5	332	100	Vert.	46.0	11.5
310.332	33.1	QP	14.7	-19.1	28.7	221	100	Vert.	46.0	17.3
310.334	36.7	QP	14.7	-19.1	32.3	10	100	Hori.	46.0	13.7
354.666	34.9	QP	16.1	-19.2	31.8	262	100	Hori.	46.0	14.3
399.001	34.8	QP	17.4	-19.2	33.0	14	100	Hori.	46.0	13.0
443.331	34.7	QP	17.4	-19.4	32.7	78	100	Vert.	46.0	13.3
465.497	35.3	QP	17.4	-19.5	33.2	93	138	Vert.	46.0	12.8
465.499	35.8	QP	17.4	-19.5	33.7	232	100	Hori.	46.0	12.3
509.832	33.5	QP	17.6	-19.5	31.6	287	110	Vert.	46.0	14.5
775.826	28.7	QP	21.5	-17.9	32.3	342	100	Vert.	46.0	13.7
930.998	30.2	QP	22.2	-16.9	35.5	88	100	Hori.	46.0	10.5

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

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

**Radiated Spurious Emission (below 1GHz)**  
**Rx, 11g, Ch:Mid**

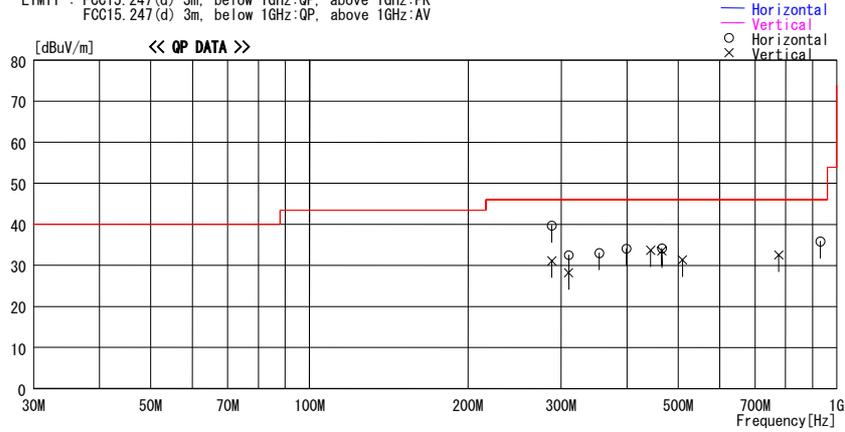
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No. 2 Semi Anechoic Chamber  
 Date : 2007/11/16

Applicant : SONY CORPORATION  
 Kind of EUT : Personal Communicator  
 Model No. : COM-2  
 Serial No. : 30610230 3000044  
 Report No. : 28BE0121-HO-02  
 Power : AC120V / 60Hz  
 Temp./Humi. : 25deg. C. / 32%  
 Operator : Hisayoshi Sato

Mode / Remarks : Receiving 11g 2437MHz (Worst-axis Hor:Y, Ver:Z)

LIMIT : FCC15.247 (d) 3m, below 1GHz:QP, above 1GHz:PK  
 FCC15.247 (d) 3m, below 1GHz:QP, above 1GHz:AV



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Gain [dB]						
288.170	39.4	QP	19.4	-19.1	39.7	11	110	Hori.	46.0	6.3
288.180	30.8	QP	19.4	-19.1	31.1	334	100	Vert.	46.0	14.9
310.267	32.6	QP	14.7	-19.1	28.2	221	100	Vert.	46.0	17.8
310.240	36.9	QP	14.7	-19.1	32.5	10	100	Hori.	46.0	13.5
354.632	36.1	QP	16.1	-19.2	33.0	262	100	Hori.	46.0	13.0
399.130	35.8	QP	17.4	-19.2	34.0	14	100	Hori.	46.0	12.0
443.265	35.7	QP	17.4	-19.4	33.7	78	100	Vert.	46.0	12.3
465.483	35.6	QP	17.4	-19.5	33.5	93	138	Vert.	46.0	12.5
465.532	36.2	QP	17.4	-19.5	34.1	232	100	Hori.	46.0	11.9
509.798	33.2	QP	17.6	-19.5	31.3	287	110	Vert.	46.0	14.7
775.842	28.9	QP	21.5	-17.9	32.5	342	100	Vert.	46.0	13.5
930.945	30.5	QP	22.2	-16.9	35.8	88	100	Hori.	46.0	10.2

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

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

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

UL Japan, Inc.

Head Office EMC Lab. No.2&No.3 Semi Anechoic Chamber

Company	: SONY CORPORATION	Regulation	: FCC15.247(d) / RSS-210 A8.5
Equipment	: Personal Communicator	Test Distance	: 3m / 1m
Model	: COM-2	Date	: 11/15/2007 11/19/2007
S/N	: 30610230 3000044	Temperature	: 24deg.C. 24deg.C.
Power	: AC 120V / 60Hz	Humidity	: 40%, 40%,
Mode	: Transmitting 11b 11Mbps 2412MHz	Engineer	: Hisayoshi Sato
Position	: H: Y-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]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
1	2390.00	48.0	48.3	27.1	32.5	3.8	0.0	46.4	46.7	73.9	27.5	27.2
1	2400.00	53.3	54.3	27.1	32.5	3.8	0.0	51.7	52.7	73.9	22.2	21.2
2	4824.00	39.8	40.9	31.3	31.4	5.0	0.4	45.1	46.2	73.9	28.8	27.7
3	7236.00	40.7	40.6	35.8	31.0	5.7	0.6	51.8	51.7	73.9	22.1	22.2
4	9648.00	40.8	41.1	38.6	31.4	6.7	0.8	55.5	55.8	73.9	18.4	18.1
<b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>												
5	12060.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	14472.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	16884.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	19296.00	NS	NS	-	-	-	-	-	-	73.9	-	-
9	21708.00	NS	NS	-	-	-	-	-	-	73.9	-	-
10	24120.00	43.9	43.5	38.7	30.5	9.3	0.0	51.9	51.5	73.9	22.0	22.4

**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
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
1	2390.00	37.7	38.4	27.1	32.5	3.8	0.0	36.1	36.8	53.9	17.8	17.1
1	2400.00	41.8	44.0	27.1	32.5	3.8	0.0	41.8	42.4	53.9	12.1	11.5
2	4824.00	29.0	28.9	31.3	31.4	5.0	0.4	34.3	34.2	53.9	19.6	19.7
3	7236.00	29.9	30.0	35.8	31.0	5.7	0.6	41.0	41.1	53.9	12.9	12.8
4	9648.00	30.1	30.2	38.6	31.4	6.7	0.8	44.8	44.9	53.9	9.1	9.0
<b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>												
5	12060.00	NS	NS	-	-	-	-	-	-	53.9	-	-
6	14472.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	16884.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	19296.00	NS	NS	-	-	-	-	-	-	53.9	-	-
9	21708.00	NS	NS	-	-	-	-	-	-	53.9	-	-
10	24120.00	34.2	34.3	38.7	30.5	9.3	0.0	42.2	42.3	53.9	11.7	11.6

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 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 limit is rounded down to one decimal place.  
\*The test result is round off to one or two decimal places, so some differences might be observed.  
\* NS:Non Signal

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

Company	: SONY CORPORATION	UL Japan, Inc.	Head Office EMC Lab. No.2&No.3 Semi Anechoic
Equipment	: Personal Communicator	Regulation	: FCC15.247(d) / RSS-210 A8.5
Model	: COM-2	Test Distance	: 3m / 1m
S/N	: 30610230 3000044	Date	: 11/15/2007 11/19/2007
Power	: AC 120V / 60Hz	Temperature	: 24deg.C. 24deg.C.
Mode	: Transmitting 11b 11Mbps 2437MHz	Humidity	: 40%, 40%
Position	: H: Y-axis, V: Z-axis	Engineer	: Hisayoshi Sato

**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	41.0	40.9	31.4	31.4	5.0	0.4	46.4	46.3	73.9	27.5	27.6
2	7311.00	41.6	40.6	35.9	31.0	5.8	0.6	52.9	51.9	73.9	21.0	22.0
3	9748.00	39.8	41.1	38.7	31.4	6.8	0.7	54.6	55.9	73.9	19.3	18.0
<b>Test distance 1meters 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	44.1	44.8	38.8	30.3	9.4	0.0	52.5	53.2	73.9	21.4	20.7

**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	29.0	28.9	31.4	31.4	5.0	0.4	34.4	34.3	53.9	19.5	19.6
2	7311.00	30.4	30.0	35.9	31.0	5.8	0.6	41.7	41.3	53.9	12.2	12.6
3	9748.00	30.1	30.2	38.7	31.4	6.8	0.7	44.9	45.0	53.9	9.0	8.9
<b>Test distance 1meters 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	34.3	34.3	38.8	30.3	9.4	0.0	42.7	42.7	53.9	11.2	11.2

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 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 limit is rounded down to one decimal place.  
\*The test result is round off to one or two decimal places, so some differences might be observed.  
\* NS:Non Signal

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

Company	: SONY CORPORATION	UL Japan, Inc.
Equipment	: Personal Communicator	Head Office EMC Lab. No.2&No.3 Semi Anechoic
Model	: COM-2	Regulation : FCC15.247(d) / RSS-210 A8.5
S/N	: 30610230 3000044	Test Distance : 3m / 1m
Power	: AC 120V / 60Hz	Date : 11/15/2007 11/19/2007
Mode	: Transmitting 11b 11Mbps 2462MHz	Temperature : 24deg.C. 24deg.C.
Position	: H: Y-axis, V: Z-axis	Humidity : 40%, 40%,
		Engineer : Hisayoshi Sato

**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	VER					HOR	VER		HOR	VER
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
1	2483.50	52.0	50.0	27.2	32.5	3.9	0.0	50.6	48.6	73.9	23.3	25.3
2	4924.00	41.6	39.6	31.5	31.4	5.0	0.3	47.0	45.0	73.9	26.9	28.9
3	7386.00	40.6	39.9	36.1	31.0	5.8	0.6	52.1	51.4	73.9	21.8	22.5
4	9848.00	41.7	38.8	38.8	31.4	6.8	0.7	56.6	53.7	73.9	17.3	20.2
<b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>												
5	12310.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	14772.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	17234.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	19696.00	NS	NS	-	-	-	-	-	-	73.9	-	-
9	22158.00	NS	NS	-	-	-	-	-	-	73.9	-	-
10	24620.00	44.0	44.0	38.8	30.2	9.4	0.0	52.5	52.5	73.9	21.4	21.4

**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
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
1	2483.50	41.7	39.9	27.2	32.5	3.9	0.0	40.3	38.5	53.9	13.6	15.4
2	4924.00	29.4	29.1	31.5	31.4	5.0	0.3	34.8	34.5	53.9	19.1	19.4
3	7386.00	30.1	30.1	36.1	31.0	5.8	0.6	41.6	41.6	53.9	12.3	12.3
4	9848.00	29.5	29.6	38.8	31.4	6.8	0.7	44.4	44.5	53.9	9.5	9.4
<b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>												
5	12310.00	NS	NS	-	-	-	-	-	-	53.9	-	-
6	14772.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	17234.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	19696.00	NS	NS	-	-	-	-	-	-	53.9	-	-
9	22158.00	NS	NS	-	-	-	-	-	-	53.9	-	-
10	24620.00	35.0	35.0	38.8	30.2	9.4	0.0	43.5	43.5	53.9	10.4	10.4

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 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 limit is rounded down to one decimal place.  
\*The test result is round off to one or two decimal places, so some differences might be observed.  
\* NS:Non Signal

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

Company	: SONY CORPORATION	UL Japan, Inc.
Equipment	: Personal Communicator	Head Office EMC Lab. No.2&No.3 Semi Anechoic
Model	: COM-2	Regulation : FCC15.247(d) / RSS-210 A8.5
S/N	: 30610230 3000044	Test Distance : 3m / 1m
Power	: AC 120V / 60Hz	Date : 11/15/2007 11/19/2007
Mode	: Transmitting 11g 48Mbps 2412MHz	Temperature : 24deg.C. 24deg.C.
Position	: H: Y-axis, V: Z-axis	Humidity : 40%, 40%,
		Engineer : Hisayoshi Sato

**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	VER					HOR	VER		HOR	VER
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
1	2390.00	54.5	55.3	27.1	32.5	3.8	0.0	52.9	53.7	73.9	21.0	20.2
2*	2400.00	73.9	74.4	27.1	32.5	3.8	0.0	72.3	72.8	-	-	-
3	4824.00	39.7	39.6	31.3	31.4	5.0	0.4	45.0	44.9	73.9	28.9	29.0
4	7236.00	39.8	40.1	35.8	31.0	5.7	0.6	50.9	51.2	73.9	23.0	22.7
5	9648.00	39.9	40.6	38.6	31.4	6.7	0.8	54.6	55.3	73.9	19.3	18.6
<b>Test distance 1meters 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	43.5	44.3	38.7	30.5	9.3	0.0	51.5	52.3	73.9	22.4	21.6

**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
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
1	2390.00	40.9	41.2	27.1	32.5	3.8	0.0	39.3	39.6	53.9	14.6	14.3
2*	2400.00	53.6	54.0	27.1	32.5	3.8	0.0	52.0	52.4	-	-	-
3	4824.00	29.3	29.4	31.3	31.4	5.0	0.4	34.6	34.7	53.9	19.3	19.2
4	7236.00	30.3	30.0	35.8	31.0	5.7	0.6	41.4	41.1	53.9	12.5	12.8
5	9648.00	30.3	30.2	38.6	31.4	6.7	0.8	45.0	44.9	53.9	8.9	9.0
<b>Test distance 1meters 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	34.3	34.4	38.7	30.5	9.3	0.0	42.3	42.4	53.9	11.6	11.5

\*Reference data

**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 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>												
0	2412.00	92.9	93.6	27.1	32.5	3.9	0.0	91.4	92.1	-	-	-
2	2400.00	57.2	58.3	27.1	32.5	3.8	0.0	55.6	56.7	Funda-20dB	15.8	15.4

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 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 limit is rounded down to one decimal place.

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

\*NS:Non Signal

**Radiated Spurious Emission (above 1GHz)**  
**Tx, 11g, Ch:Mid**

Company	: SONY CORPORATION	UL Japan, Inc.	Head Office EMC Lab. No.2&No.3 Semi Anechoic
Equipment	: Personal Communicator	Regulation	: FCC15.247(d) / RSS-210 A8.5
Model	: COM-2	Test Distance	: 3m / 1m
S/N	: 30610230 3000044	Date	: 11/15/2007 11/19/2007
Power	: AC 120V / 60Hz	Temperature	: 24deg.C. 24deg.C.
Mode	: Transmitting 11g 48Mbps 2437MHz	Humidity	: 40%, 40%
Position	: H: Y-axis, V: Z-axis	Engineer	: Hisayoshi Sato

**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	4874.00	40.4	39.4	31.4	31.4	5.0	0.4	45.8	44.8	73.9	28.1	29.1
2	7311.00	41.1	39.7	35.9	31.0	5.8	0.6	52.4	51.0	73.9	21.5	22.9
3	9748.00	40.5	41.3	38.7	31.4	6.8	0.7	55.3	56.1	73.9	18.6	17.8
<b>Test distance 1meters 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	43.8	43.8	38.8	30.3	9.4	0.0	52.2	52.2	73.9	21.7	21.7

**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	4874.00	29.2	28.8	31.4	31.4	5.0	0.4	34.6	34.2	53.9	19.3	19.7
2	7311.00	30.4	30.4	35.9	31.0	5.8	0.6	41.7	41.7	53.9	12.2	12.2
3	9748.00	30.0	30.0	38.7	31.4	6.8	0.7	44.8	44.8	53.9	9.1	9.1
<b>Test distance 1meters 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	34.2	34.2	38.8	30.3	9.4	0.0	42.6	42.6	53.9	11.3	11.3

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 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 limit is rounded down to one decimal place.  
\*The test result is round off to one or two decimal places, so some differences might be observed.  
\* NS:Non Signal

**Radiated Spurious Emission (above 1GHz)**  
**Tx, 11g, Ch:High**

Company	: SONY CORPORATION	UL Japan, Inc.
Equipment	: Personal Communicator	Head Office EMC Lab. No.2&No.3 Semi Anechoic
Model	: COM-2	Regulation : FCC15.247(d) / RSS-210 A8.5
S/N	: 30610230 3000044	Test Distance : 3m / 1m
Power	: AC 120V / 60Hz	Date : 11/15/2007 11/19/2007
Mode	: Transmitting 11g 48Mbps 2462MHz	Temperature : 24deg.C. 24deg.C.
Position	: H: Y-axis, V: Z-axis	Humidity : 40%, 40%
		Engineer : Hisayoshi Sato

**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	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.50	62.5	63.1	27.2	32.5	3.9	0.0	61.1	61.7	73.9	12.8	12.2
2	4924.00	39.7	40.4	31.5	31.4	5.0	0.3	45.1	45.8	73.9	28.8	28.1
3	7386.00	39.5	43.5	36.1	31.0	5.8	0.6	51.0	55.0	73.9	22.9	18.9
4	9848.00	38.6	42.3	38.8	31.4	6.8	0.7	53.5	57.2	73.9	20.4	16.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12310.00	NS	NS	-	-	-	-	-	-	73.9	-	-
6	14772.00	NS	NS	-	-	-	-	-	-	73.9	-	-
7	17234.00	NS	NS	-	-	-	-	-	-	73.9	-	-
8	19696.00	NS	NS	-	-	-	-	-	-	73.9	-	-
9	22158.00	NS	NS	-	-	-	-	-	-	73.9	-	-
10	24620.00	43.5	43.8	38.8	30.2	9.4	0.0	52.0	52.3	73.9	21.9	21.6

**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
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.50	48.4	47.7	27.2	32.5	3.9	0.0	47.0	46.3	53.9	6.9	7.6
2	4924.00	29.7	31.1	31.5	31.4	5.0	0.3	35.1	36.5	53.9	18.8	17.4
3	7386.00	30.8	31.2	36.1	31.0	5.8	0.6	42.3	42.7	53.9	11.6	11.2
4	9848.00	29.5	29.8	38.8	31.4	6.8	0.7	44.4	44.7	53.9	9.5	9.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12310.00	NS	NS	-	-	-	-	-	-	53.9	-	-
6	14772.00	NS	NS	-	-	-	-	-	-	53.9	-	-
7	17234.00	NS	NS	-	-	-	-	-	-	53.9	-	-
8	19696.00	NS	NS	-	-	-	-	-	-	53.9	-	-
9	22158.00	NS	NS	-	-	-	-	-	-	53.9	-	-
10	24620.00	34.7	34.7	38.8	30.2	9.4	0.0	43.2	43.2	53.9	10.7	10.7

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 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 limit is rounded down to one decimal place.  
\*The test result is round off to one or two decimal places, so some differences might be observed.  
\* NS:Non Signal

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

Company	: SONY CORPORATION	UL Japan, Inc.
Equipment	: Personal Communicator	Head Office EMC Lab. No.2&No.3 Semi Anechoic
Model	: COM-2	Regulation : FCC15.247(d) / RSS-210 A8.5
S/N	: 30610230 3000044	Test Distance : 3m / 1m
Power	: AC 120V / 60Hz	Date : 11/15/2007
Mode	: Receiving 11b 2437MHz	Temperature : 24deg.C.
Position	: H: Y-axis, V: Z-axis	Humidity : 40%,
		Engineer : Hisayoshi Sato

**PK DETECT (Reference data)** (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	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2437.00	41.1	41.9	27.2	32.5	3.9	0.0	39.7	40.5	73.9	34.2	33.4
3	4874.00	39.0	39.4	31.4	31.4	5.0	0.0	44.0	44.4	73.9	29.9	29.5
4	7311.00	39.6	39.5	35.9	31.0	5.8	0.0	50.3	50.2	73.9	23.6	23.7

**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
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2437.00	30.5	30.4	27.2	32.5	3.9	0.0	29.1	29.0	53.9	24.8	24.9
3	4874.00	28.8	28.8	31.4	31.4	5.0	0.0	33.8	33.8	53.9	20.1	20.1
4	7311.00	30.4	30.3	35.9	31.0	5.8	0.0	41.1	41.0	53.9	12.8	12.9

\*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.

\*The limit is rounded down to one decimal place.

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

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

Company	: SONY CORPORATION	UL Japan, Inc.
Equipment	: Personal Communicator	Head Office EMC Lab. No.2 Semi Anechoic
Model	: COM-2	Regulation : FCC15.247(d) / RSS-210 A8.5
S/N	: 30610230 3000044	Test Distance : 3m / 1m
Power	: AC 120V / 60Hz	Date : 11/15/2007
Mode	: Receiving 11g 2437MHz	Temperature : 24deg.C.
Position	: H: Y-axis, V: Z-axis	Humidity : 40%
		Engineer : Hisayoshi Sato

**PK DETECT (Reference data)** (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	VER					HOR	VER		HOR	VER
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
1	2437.00	41.2	42.2	27.2	32.5	3.9	0.0	39.8	40.8	73.9	34.1	33.1
3	4874.00	39.7	41.1	31.4	31.4	5.0	0.0	44.7	46.1	73.9	29.2	27.8
4	7311.00	43.2	40.3	35.9	31.0	5.8	0.0	53.9	51.0	73.9	20.0	22.9

**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
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>												
1	2437.00	30.8	30.4	27.2	32.5	3.9	0.0	29.4	29.0	53.9	24.5	24.9
3	4874.00	28.8	28.9	31.4	31.4	5.0	0.0	33.8	33.9	53.9	20.1	20.0
4	7311.00	30.3	30.3	35.9	31.0	5.8	0.0	41.0	41.0	53.9	12.9	12.9

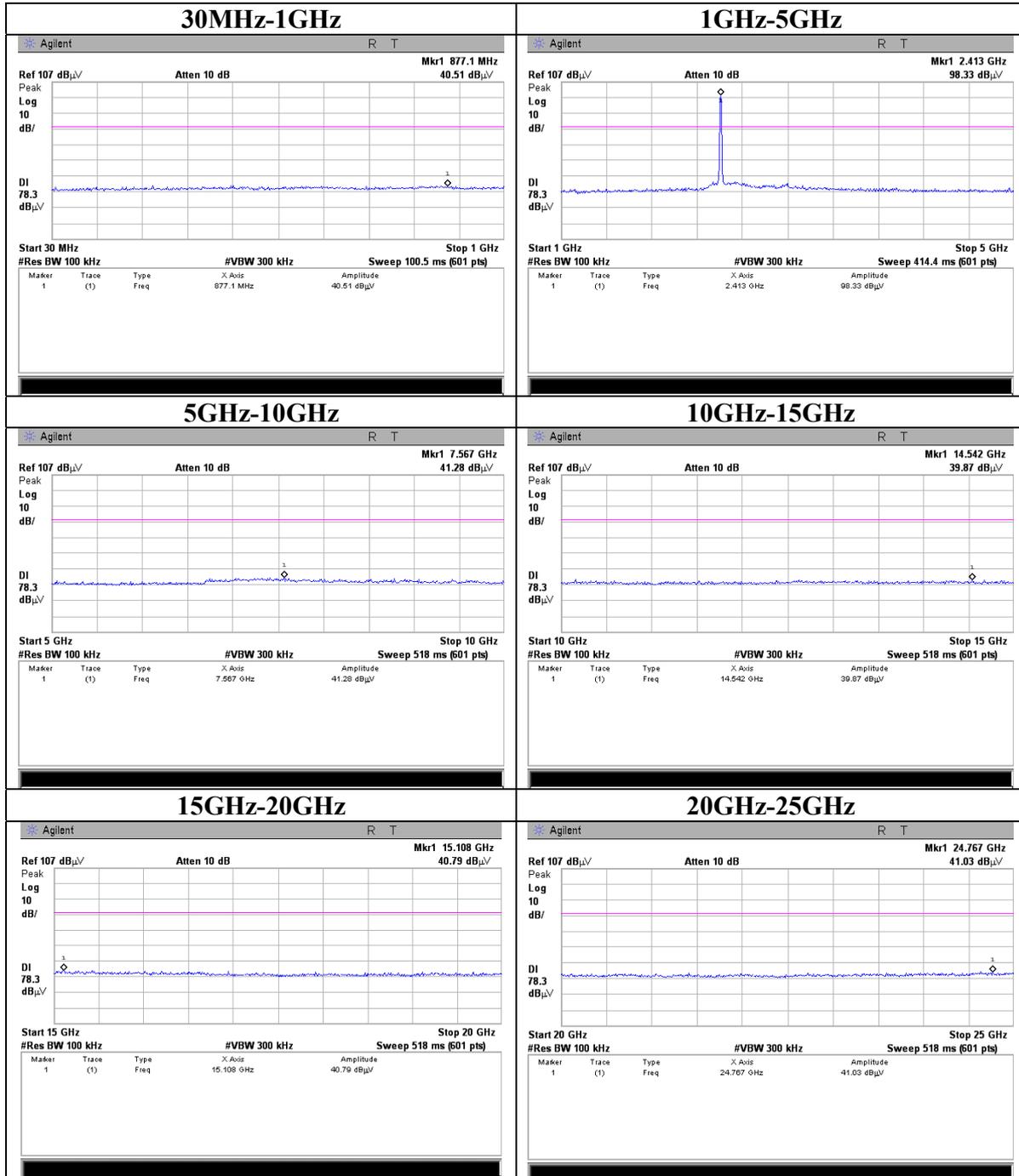
\*Except for the above table : All other spurious emissions were less than 20dB for the limit.

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

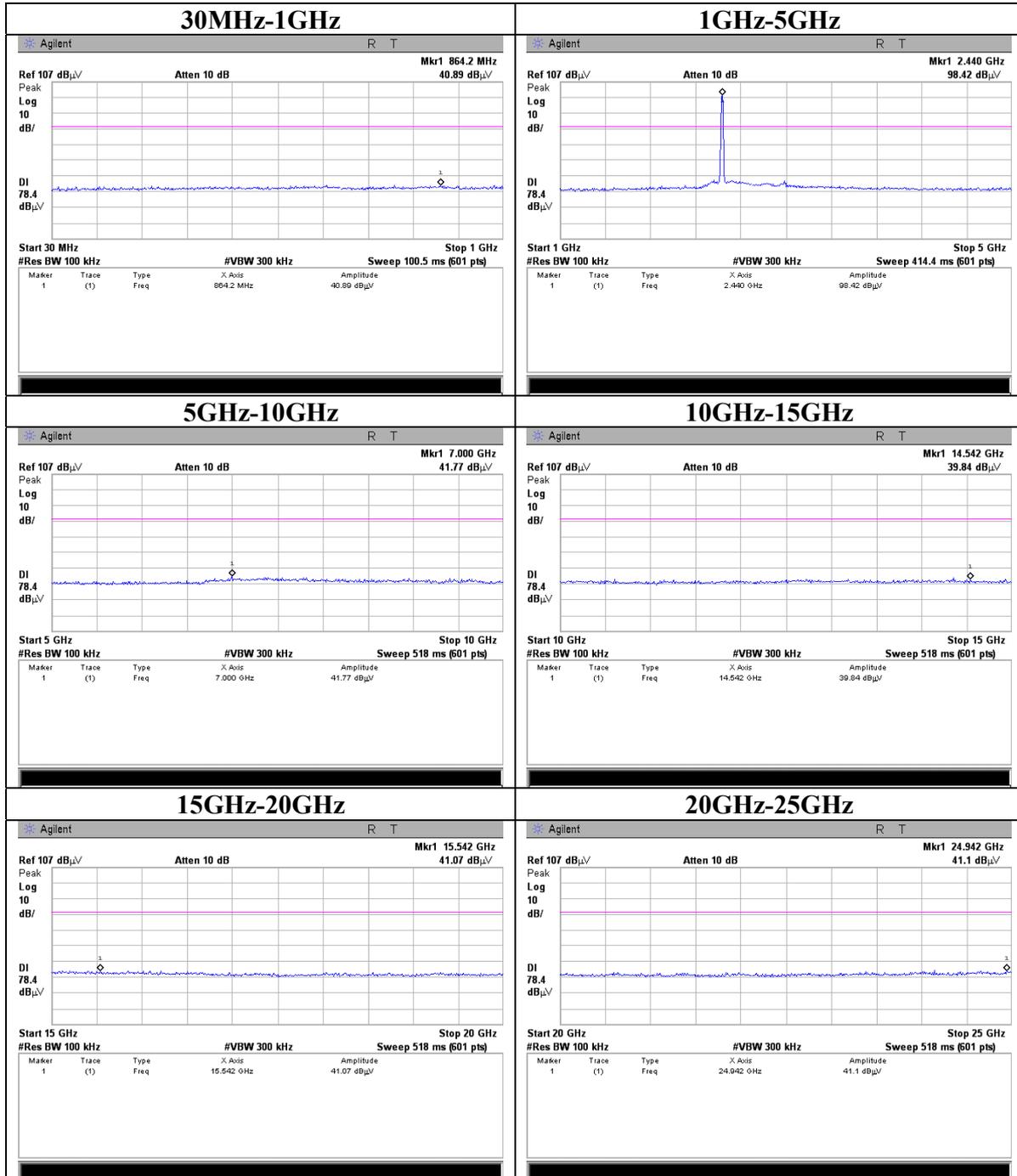
\*The limit is rounded down to one decimal place.

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

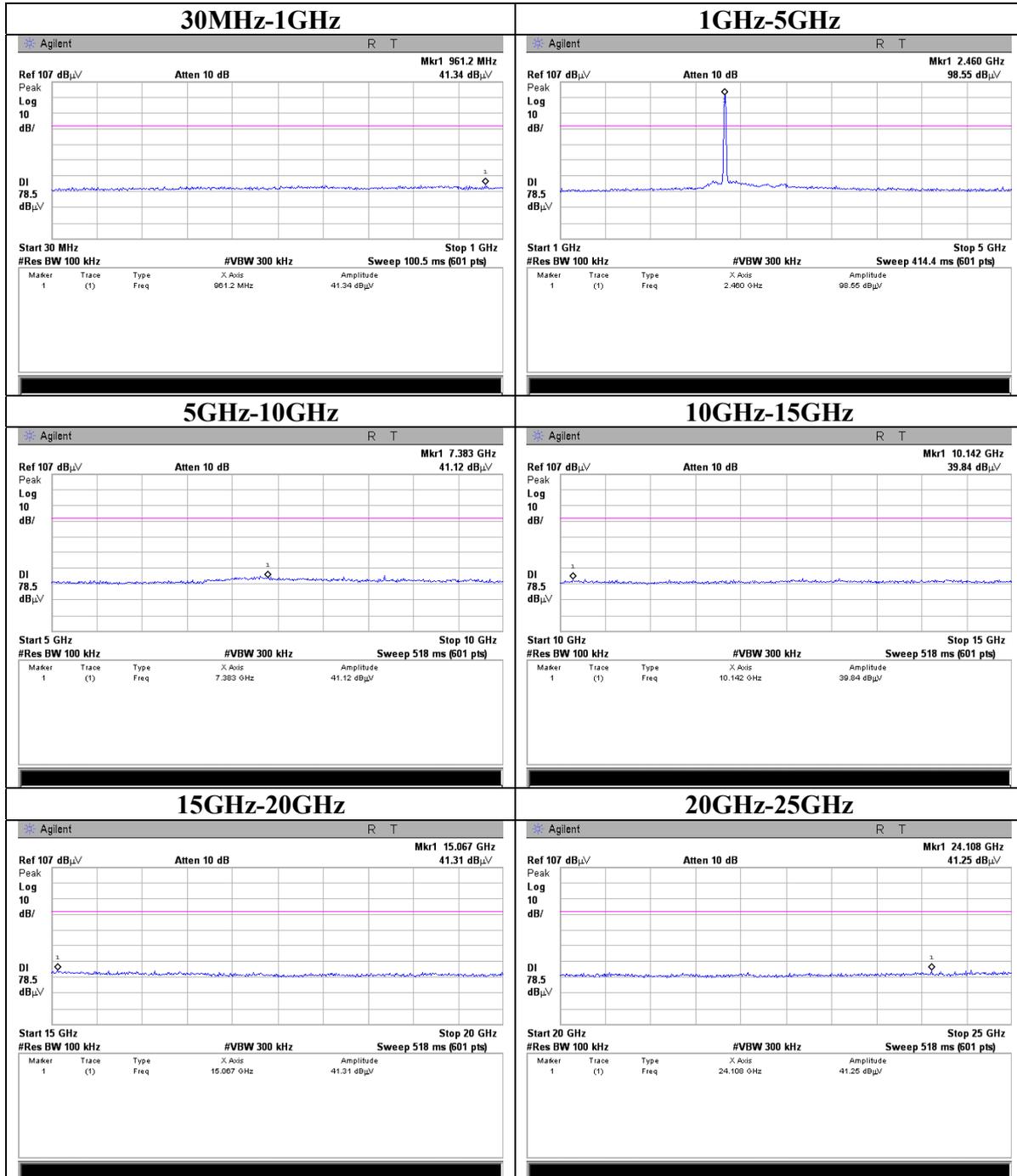
**Conducted Spurious Emission**  
**11b, 11Mbps, Ch: Low**



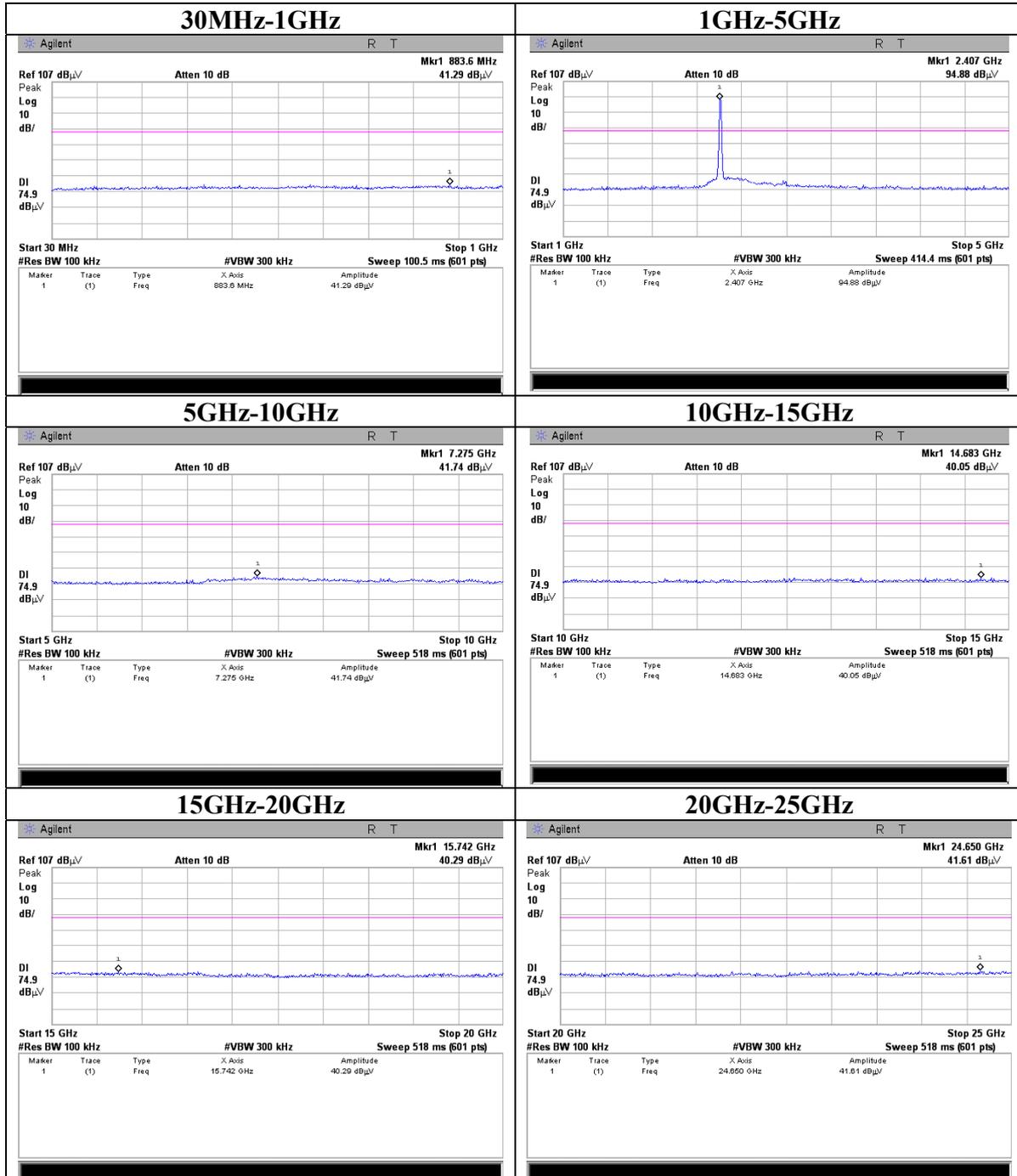
**Conducted Spurious Emission**  
**11b, 11Mbps, Ch: Mid**



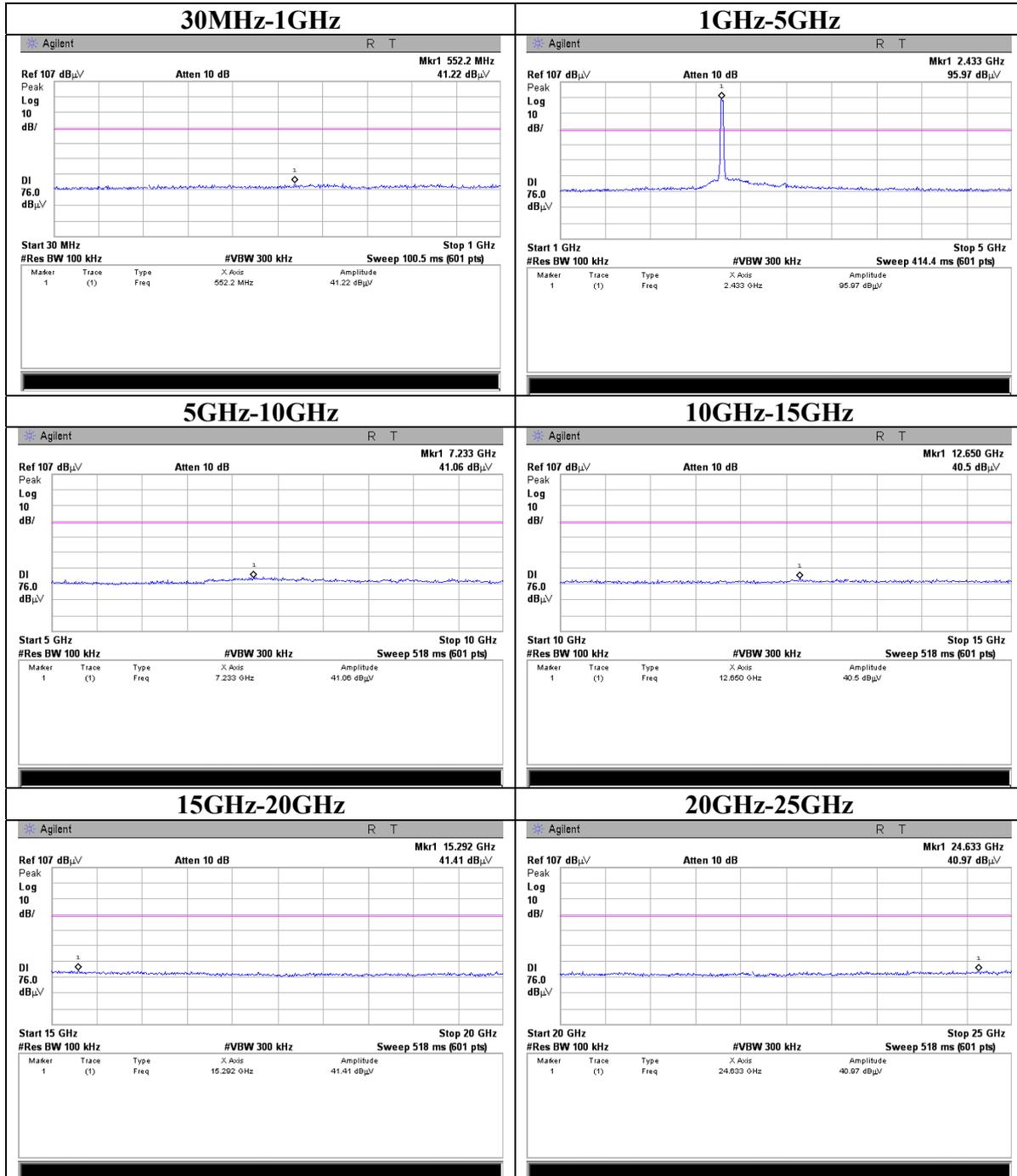
**Conducted Spurious Emission**  
**11b, 11Mbps, Ch: High**



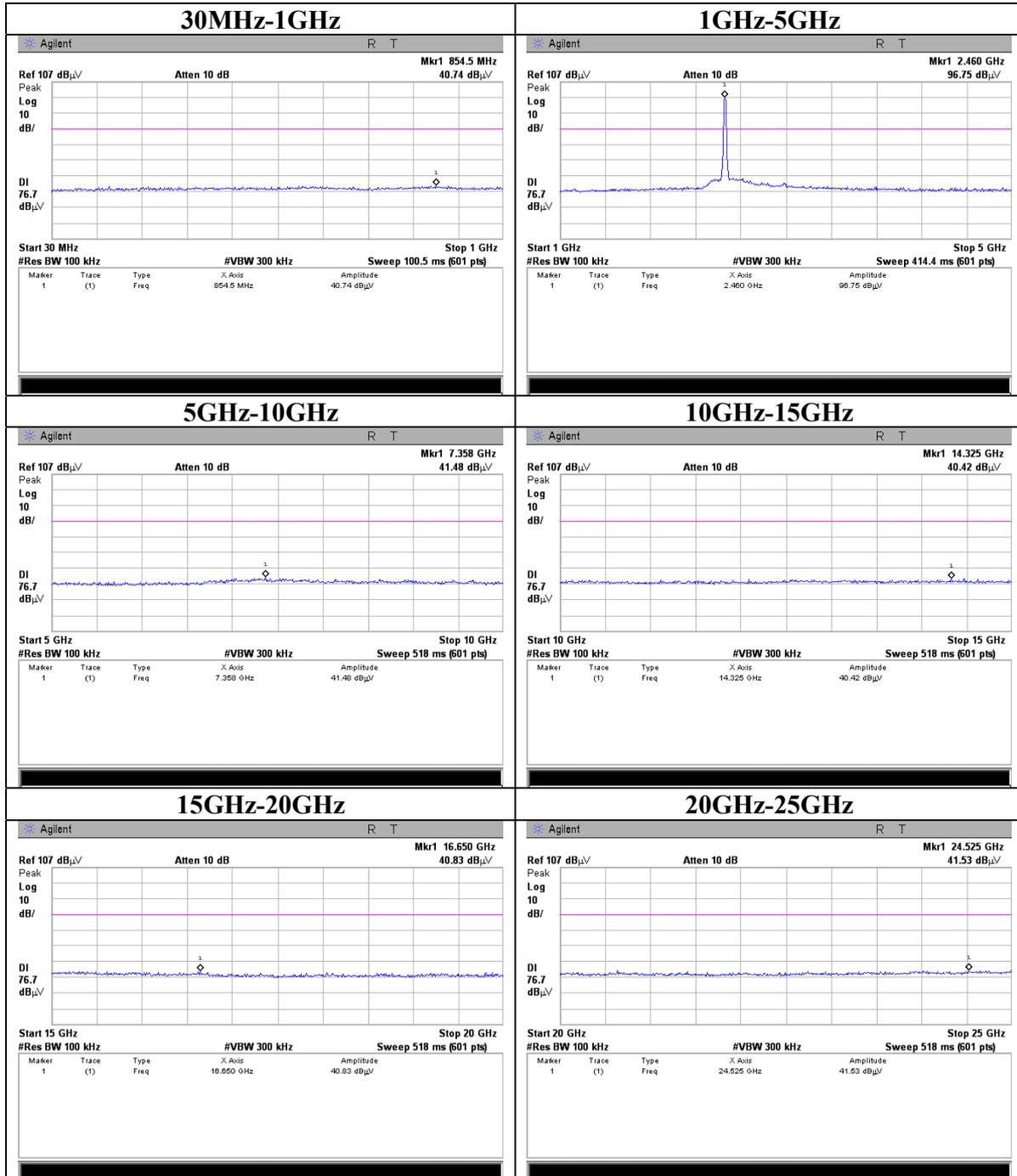
**Conducted Spurious Emission**  
**11g, 48Mbps, Ch: Low**



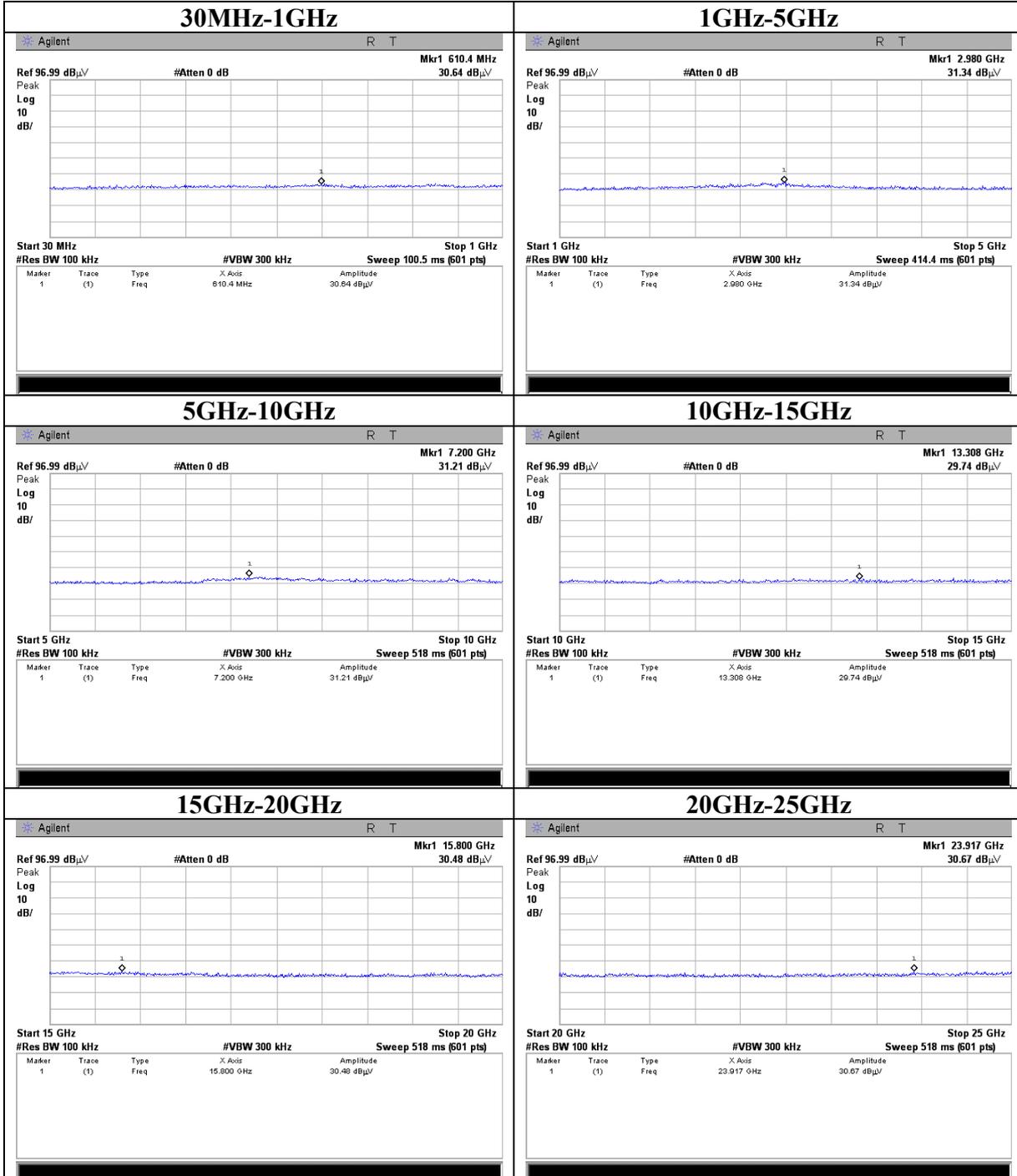
**Conducted Spurious Emission**  
**11g, 48Mbps, Ch: Mid**



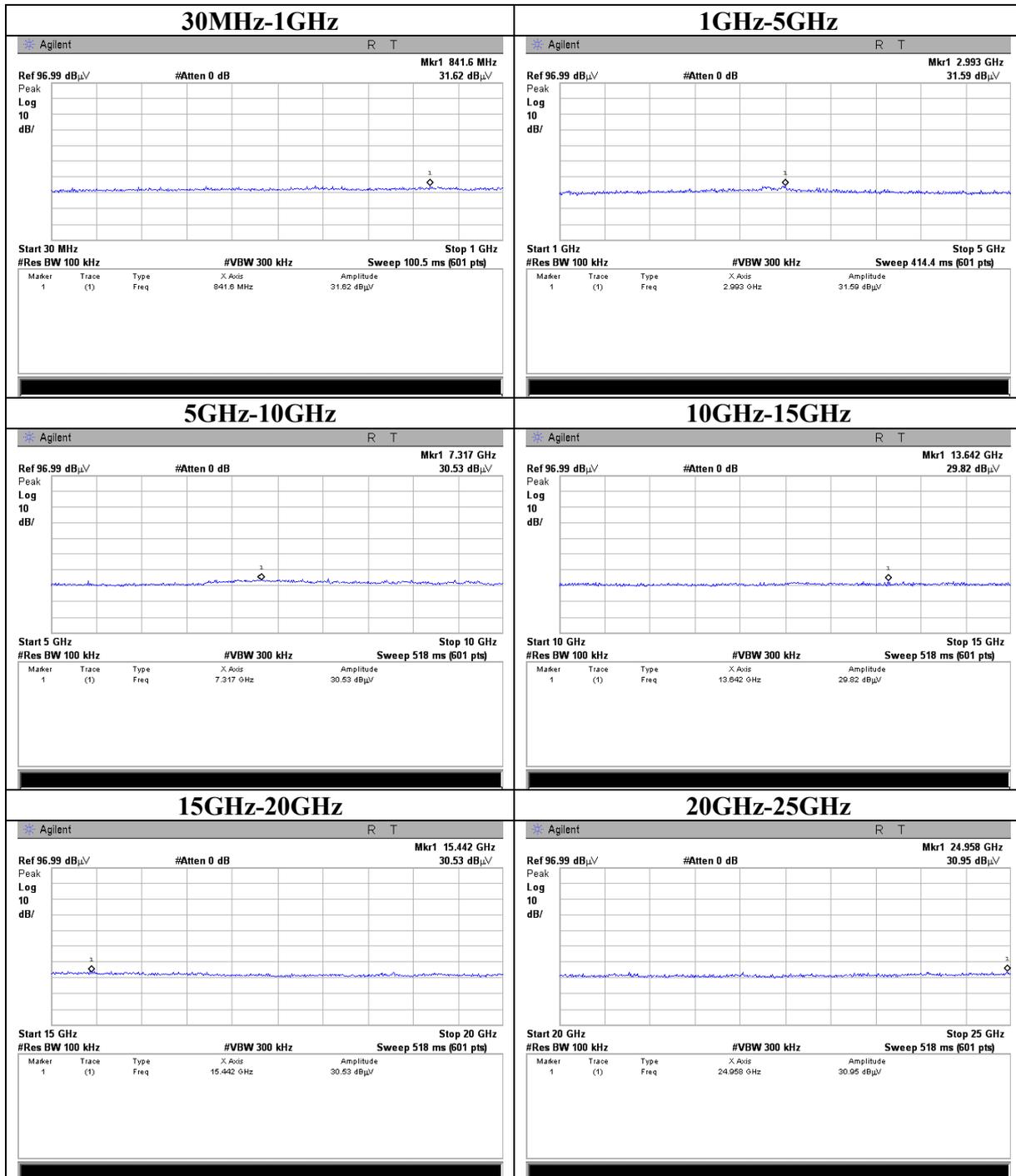
**Conducted Spurious Emission**  
**11g, 48Mbps, Ch: High**



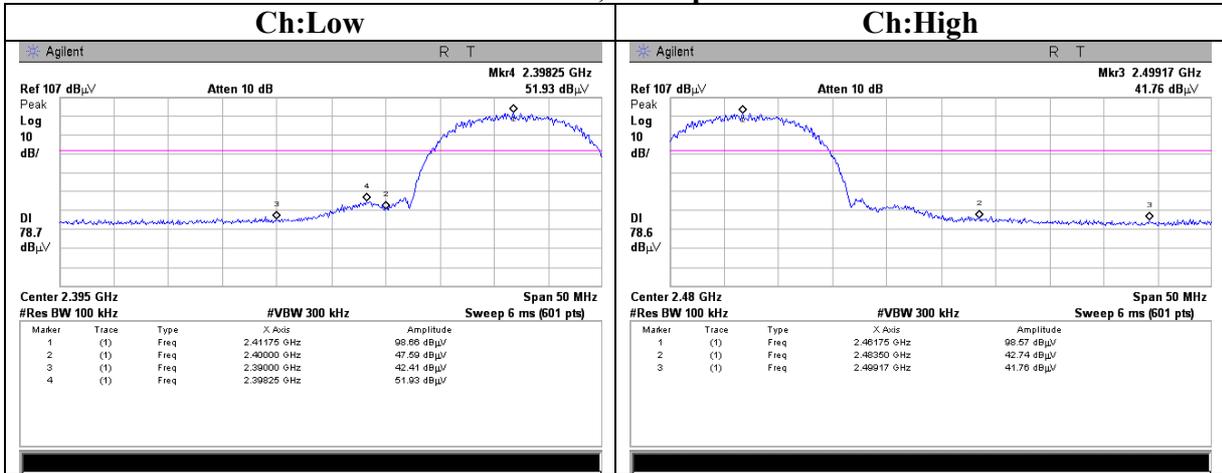
**Conducted Spurious Emission**  
**Rx, 11b, Ch: Mid**



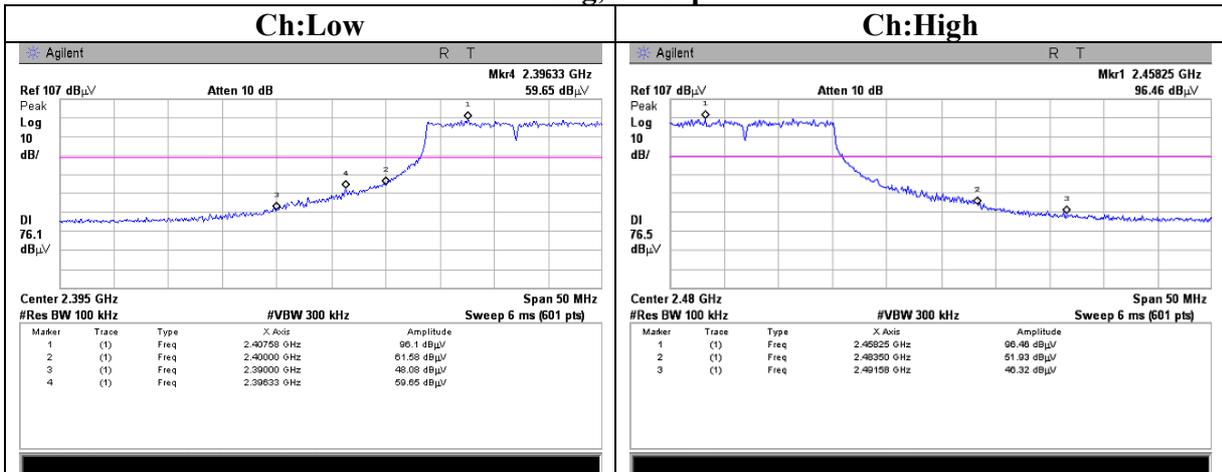
**Conducted Spurious Emission**  
**Rx, 11g, Ch: Mid**



**Conducted emission Band Edge compliance**  
**11b, 11Mbps**



**11g, 48Mbps**



### Power Density

	UL Japan, Inc.
	Head Office EMC Lab. No.3 Preparation Room
Company : SONY CORPORATION	Test Report No. : 28BE0121-HO-02
Equipment : Personal Communicator	Regulation : FCC15.247(e)/RSS-210A8.2(b)
Model No. : COM-2	Test distance : -
Serial No. : 30610230 3000044	Date : 11/20/2007
Power : AC120V/60Hz	Temperature : 24°C
Mode : Transmitting 11b 11Mbps, 11g 48Mbps	Humidity : 35%
	Engineer : Hisayoshi Sato

#### [IEEE802.11b]

Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2410.7	-22.11	0.93	10.02	-11.2	8.0	19.2
Mid	2435.7	-22.45	0.93	10.02	-11.5	8.0	19.5
High	2460.7	-22.25	0.93	10.02	-11.3	8.0	19.3

Sample Calculation:

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

#### [IEEE802.11g]

Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2412.4	-26.91	0.93	10.02	-16.0	8.0	24.0
Mid	2437.4	-26.33	0.93	10.02	-15.4	8.0	23.4
High	2462.4	-26.99	0.93	10.02	-16.0	8.0	24.0

Sample Calculation:

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

**UL Japan, Inc.**

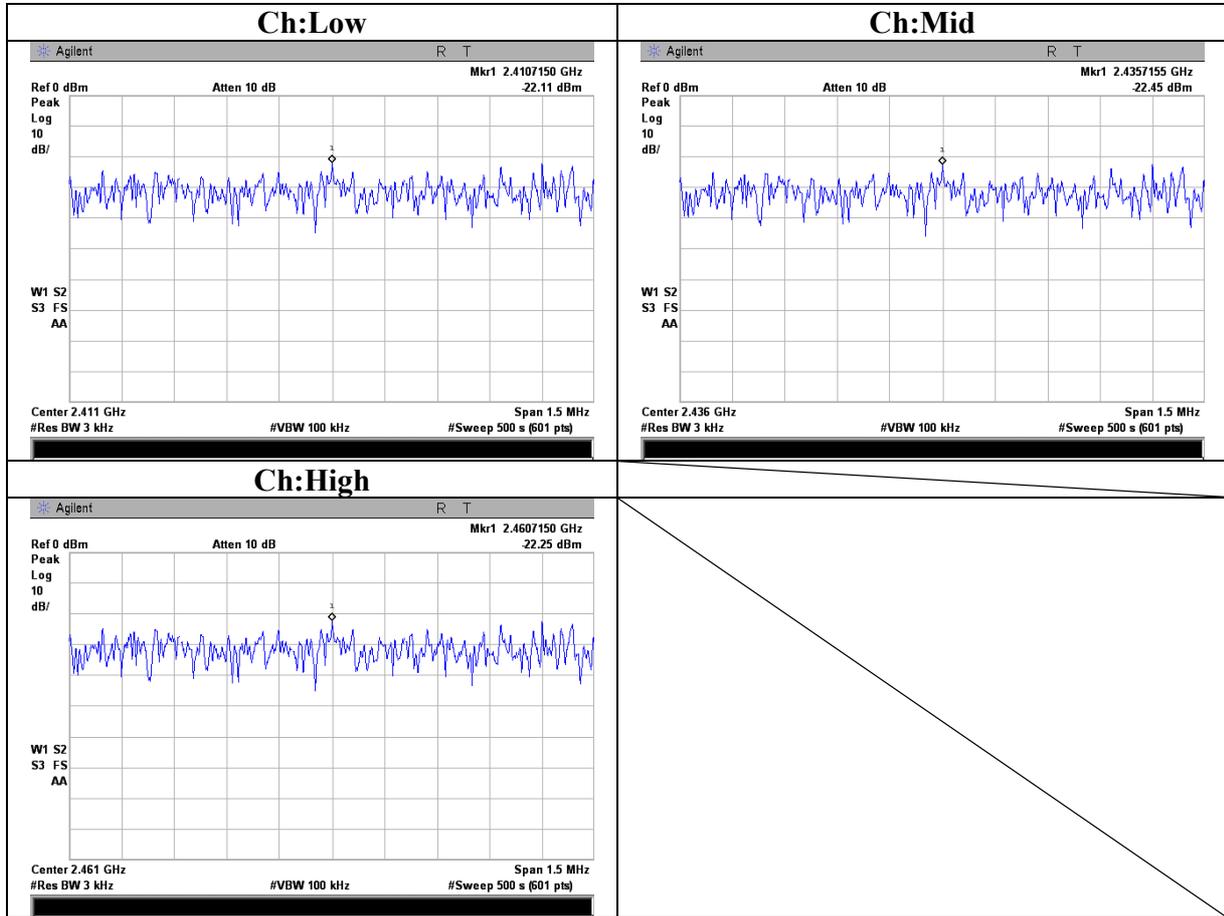
**Head Office EMC Lab.**

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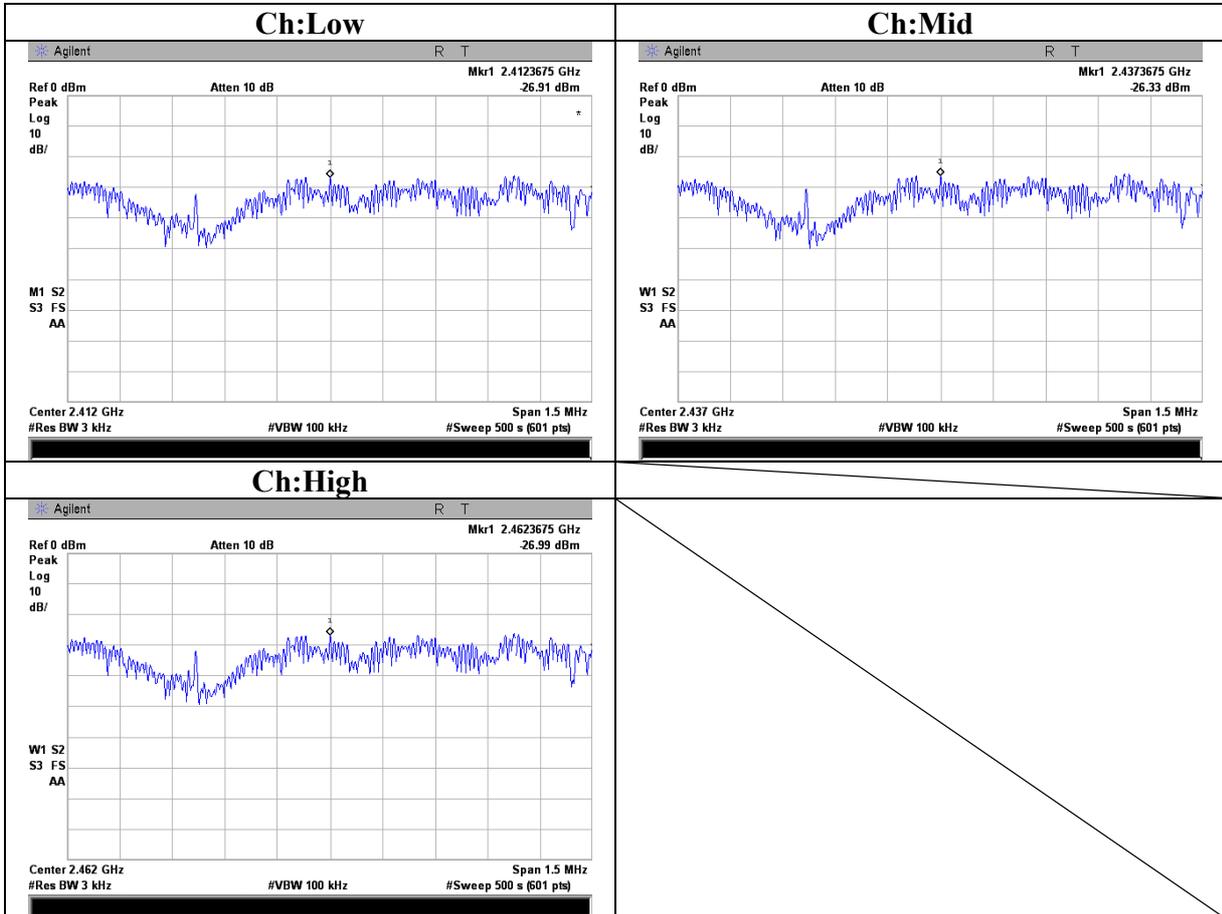
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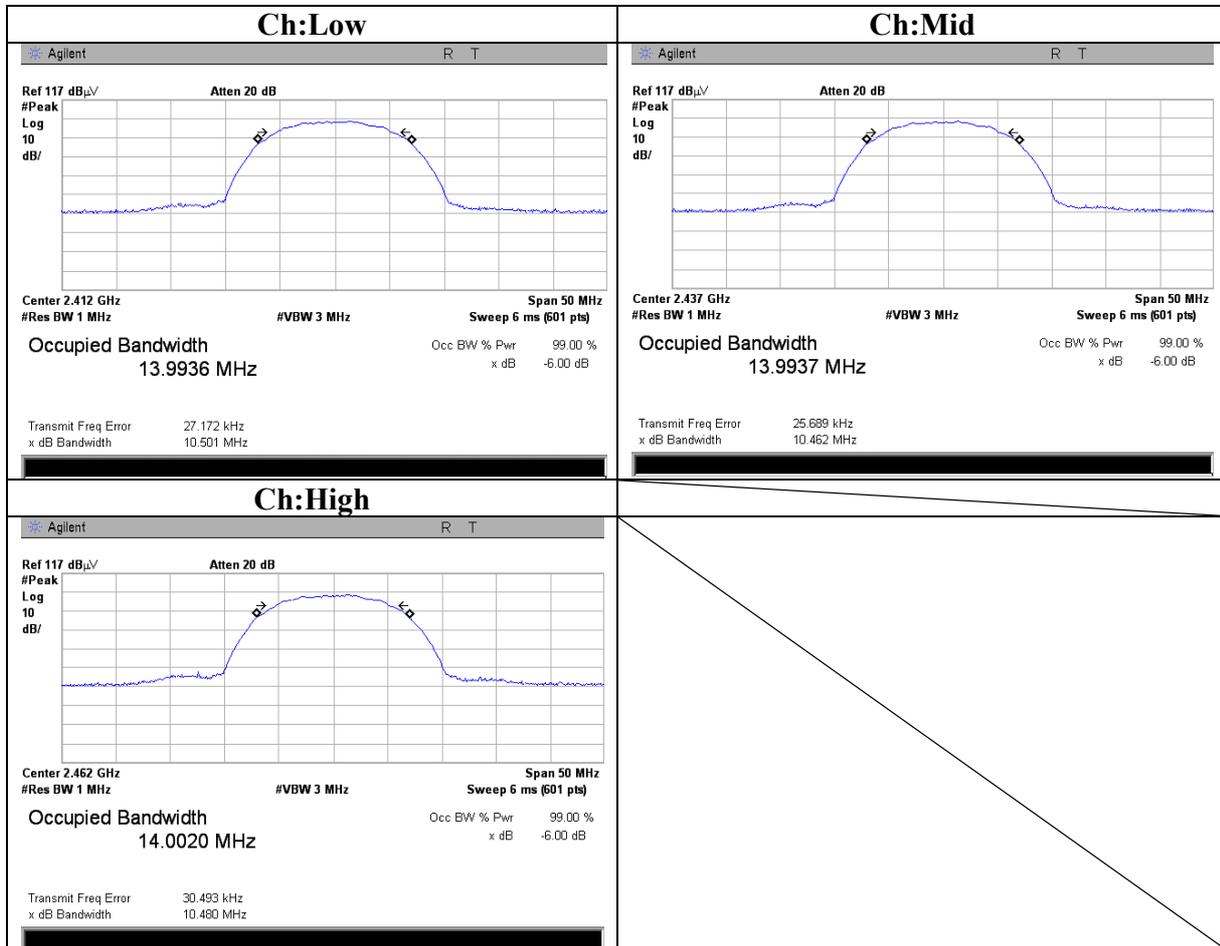
**Power Density**  
**11b, 11Mbps**



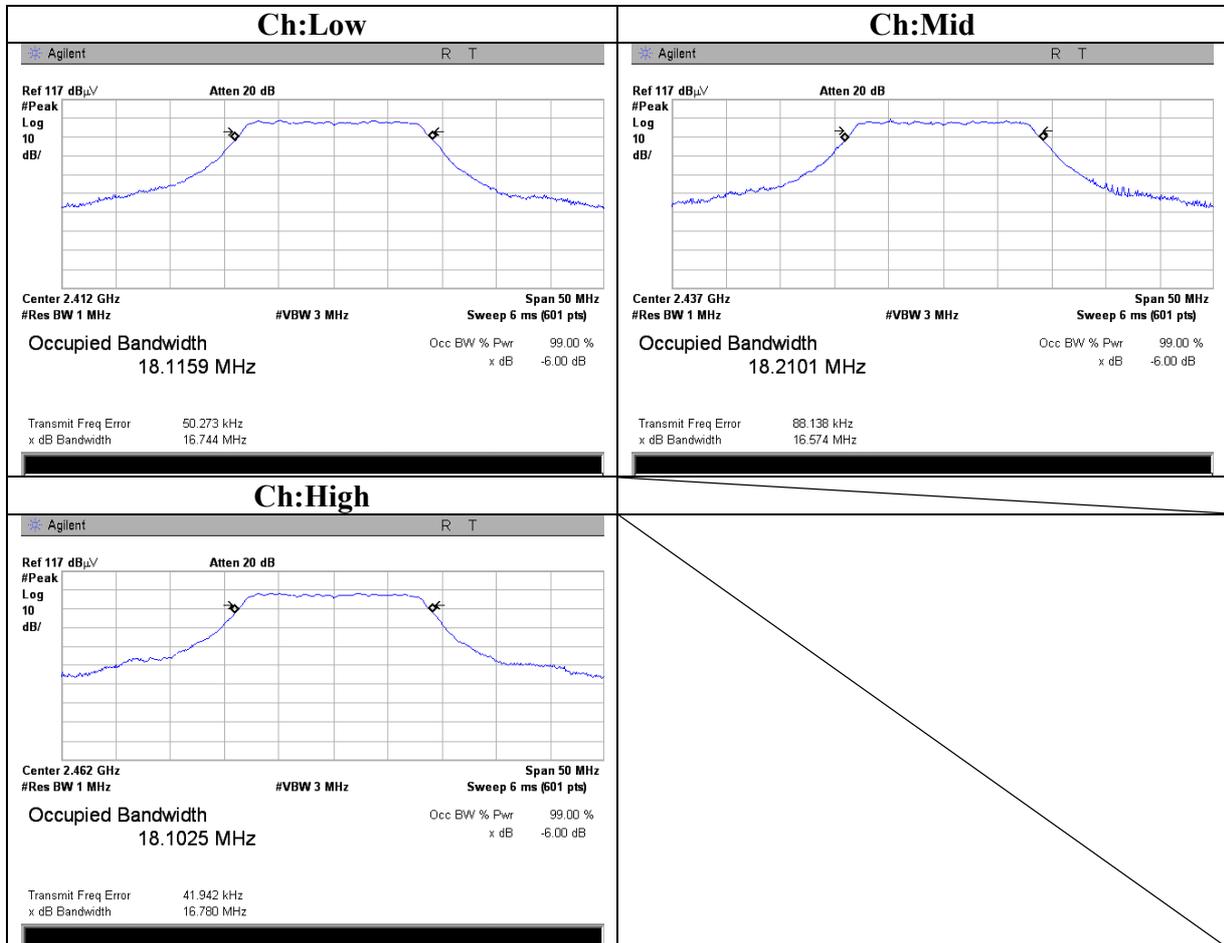
**Power Density**  
**11g, 48Mbps**



**99% Occupied Bandwidth**  
**11b, 11Mbps**



**99% Occupied Bandwidth**  
**11g, 48Mbps**



### APPENDIX 3:Test instruments

#### EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAT-22	Attenuator(10dB) DC-18GHz	Orient Microwave	BX10-0476-00	AT	2007/03/07 * 12
MPM-08	Power Meter	Anritsu	ML2495A	AT	2007/09/12 * 12
MPSE-11	Power sensor	Anritsu	MA2411B	AT	2007/09/12 * 12
MOS-04	Digital Humidity Indicator	N.T	NT-1800	AT	2007/11/12 * 12
MSA-10	Spectrum Analyzer	Agilent	E4448A	RE	2007/07/04 * 12
MJM-05	Measure	PROMART	SEN1955	RE	-
MOS-02	Digital Humidity Indicator	N.T	NT-1800	RE	2007/11/12 * 12
MAEC-02	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE	2007/04/02 * 12
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE / CE	-
MHA-06	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2007/01/30 * 12
MCC-16	Microwave Cable 1G- 26.5GHz	Suhner	SUCOFLEX 104	RE	2007/02/22 * 12
MCC-47	Microwave Cable 1G- 26.5GHz	Suhner	SUCOFLEX104	RE	2007/08/28 * 12
MPA-10	Pre Amplifier	Agilent	8449B	RE	2007/09/27 * 12
MBA-02	Biconical Antenna	Schwarzbeck	BBA9106	RE	2007/10/21 * 12
MCC-12	Coaxial Cable	Fujikura/Agilent	-	RE	2007/02/27 * 12
MAT-07	Attenuator(6dB)	Weinschel Corp	2	RE	2007/11/13 * 12
MPA-09	Pre Amplifier	Agilent	8447D	RE	2007/09/13 * 12
MLA-02	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2007/10/21 * 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
MHA-16	Horn Antenna 15- 40GHz	Schwarzbeck	BBHA9170	RE	2007/04/06 * 12
MLS-06	LISN(AMN)	Schwarzbeck	NSLK8127	CE (EUT)	2007/02/22 * 12
MCC-51	Coaxial cable	UL Japan	-	CE	2007/07/26 * 12
MTR-02	Test Receiver	Rohde & Schwarz	ESCS30	RE / CE	2007/02/03 * 12
MSA-09	Spectrum Analyzer	Advantest	R3273	RE / CE	2006/12/08 * 12
MOS-12	Thermo-Hygrometer	Custom	CTH-180	RE / CE	2006/01/19 * 24
MJM-06	Measure	PROMART	SEN1955	RE / CE	-
MAEC-03	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE / CE	2007/03/05 * 12
MAT-23	Attenuator(10dB) DC-18GHz	Orient Microwave	BX10-0476-00	AT	2007/03/07 * 12
MSA-06	Spectrum Analyzer	Agilent	E4407B	AT	2007/04/10 * 12
MCC-06	Microwave Cable 1G- 26.5GHz 1m	Suhner	SUCOFLEX 104	AT	2007/02/26 * 12

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Issued date : November 30, 2007  
Revised date : December 7, 2007  
FCC ID : AK8COM2

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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 equipments 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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