

APPENDIX 2: Data of EMI test

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

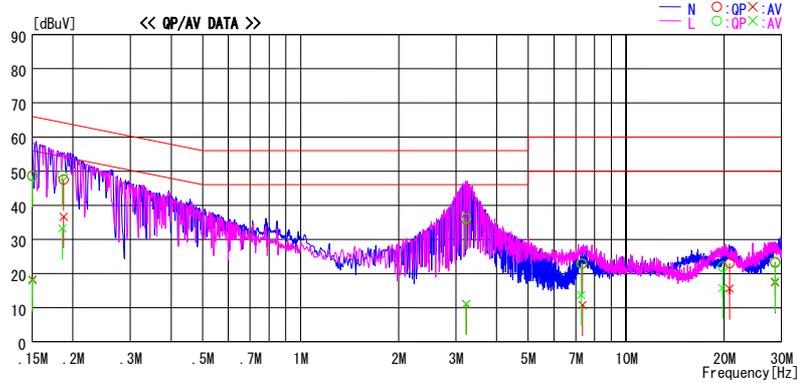
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2008/04/19

Company : Sony Corporation
 Kind of EUT : Digital Photo Frame
 Model No. : VGF-CP1
 Serial No. : 1000009
 Report No. : 281E0011-HO-01
 Power : AC 120V / 60Hz (DC 6V)
 Temp./Humi. : 24deg.C / 45%
 Operator : Motoya Imura

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

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]		
0.15011	48.4	17.9	0.3	48.7	18.2	66.0	56.0	17.3	37.8	N	
0.18712	47.3	36.3	0.3	47.6	36.6	64.2	54.2	16.6	17.6	N	
3.22710	35.2	10.5	0.6	35.8	11.1	56.0	46.0	20.2	34.9	N	
7.34100	22.0	9.9	0.9	22.9	10.8	60.0	50.0	37.1	39.2	N	
20.78200	21.2	13.8	1.8	23.0	15.6	60.0	50.0	37.0	34.4	N	
28.69200	21.5	15.5	1.9	23.4	17.4	60.0	50.0	36.6	32.6	N	
0.15002	48.3	17.7	0.3	48.6	18.0	66.0	56.0	17.4	38.0	L	
0.18552	48.5	32.9	0.3	48.8	33.2	64.2	54.2	15.4	21.0	L	
3.22300	35.6	10.5	0.6	36.2	11.1	56.0	46.0	19.8	34.9	L	
7.28820	22.0	12.8	0.9	22.9	13.7	60.0	50.0	37.1	36.3	L	
19.79240	20.4	14.2	1.6	22.0	15.8	60.0	50.0	38.0	34.2	L	
28.68200	21.2	15.8	1.9	23.1	17.7	60.0	50.0	36.9	32.3	L	

CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT[dBuA]=READING[dBuV]+C.F[dB] (Probe factor+CABLE LOSS)
 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, 11b, 11Mbps, Ch: Mid

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2008/04/19

Company : Sony Corporation
Kind of EUT : Digital Photo Frame
Model No. : VGF-CP1
Serial No. : 1000009

Report No. : 281E0011-HO-01
Power : AC 120V / 60Hz (DC 6V)
Temp./Humi. : 24deg.C / 45%
Operator : Motoya Imura

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

LIMIT : FCC15.207 QP
FCC15.207 AV

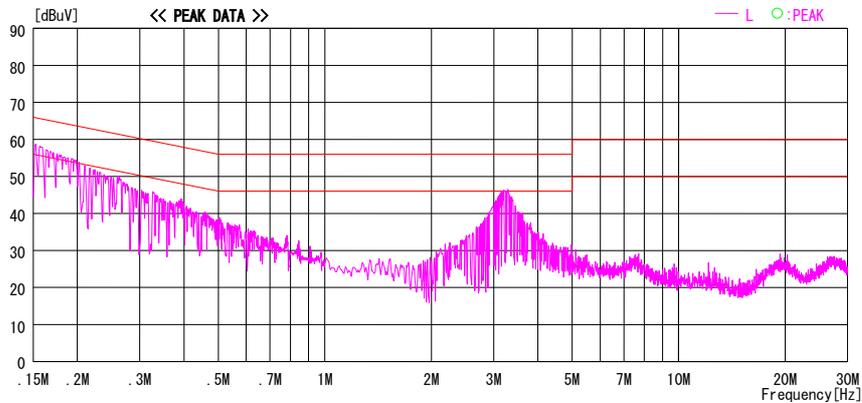
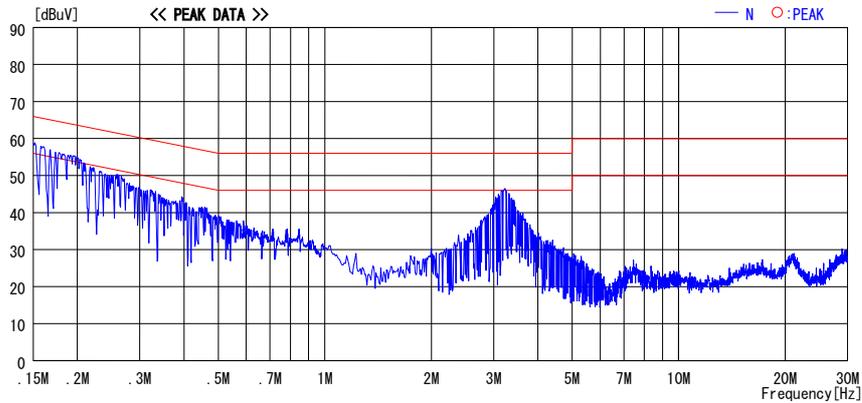


CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT[dBuA]=READING[dBuV]+C.F[dB] (Probe factor+CABLE LOSS)
Except for the above table: adequate margin data below the limits.

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

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2008/04/19

Company : Sony Corporation
Kind of EUT : Digital Photo Frame
Model No. : VGF-CP1
Serial No. : 1000009

Report No. : 281E0011-HO-01
Power : AC 120V / 60Hz (DC 6V)
Temp./Humi. : 24deg.C / 45%
Operator : Motoya Imura

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

LIMIT : FCC15.207 QP
FCC15.207 AV

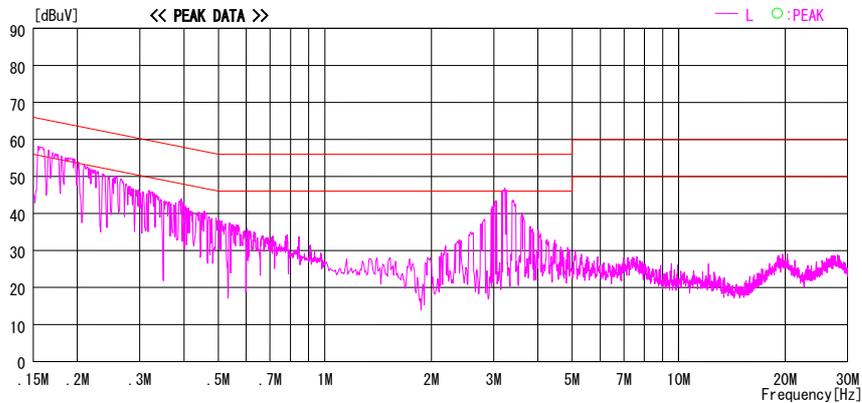
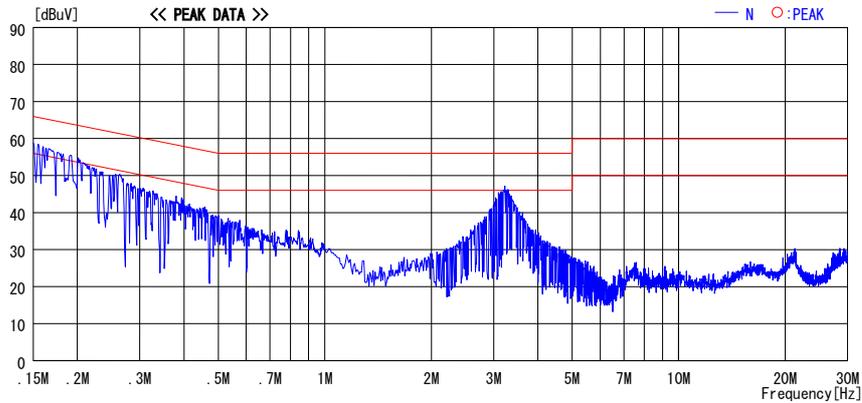


CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT[dBuA]=READING[dBuV]+C.F[dB] (Probe factor+CABLE LOSS)
Except for the above table: adequate margin data below the limits.

Conducted Emission
Tx, 11g, 36Mbps, Ch: Low

DATA OF CONDUCTED EMISSION TEST

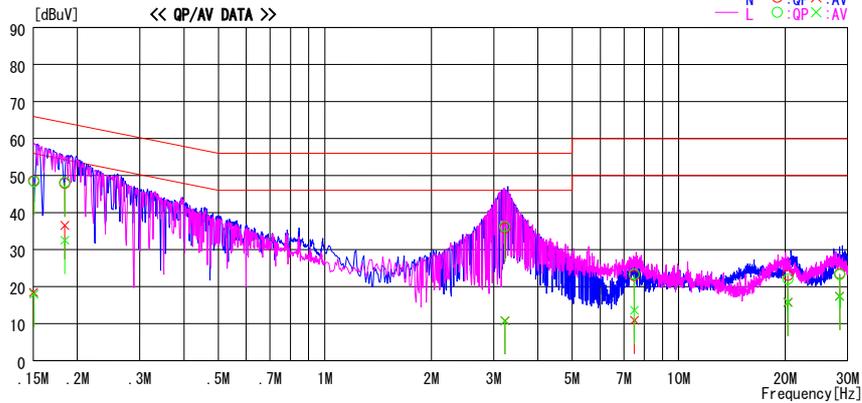
UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
 Date : 2008/04/19

Company : Sony Corporation
 Kind of EUT : Digital Photo Frame
 Model No. : VGF-CP1
 Serial No. : 1000009

Report No. : 281E0011-HO-01
 Power : AC 120V / 60Hz (DC 6V)
 Temp./Humi. : 24deg.C / 45%
 Operator : Motoya Imura

Mode / Remarks : Tx, 11g, 36Mbps, 2412MHz

LIMIT : FCC15.207 QP
 FCC15.207 AV



Frequency [MHz]	Reading Level		Corr. Factor [dB]	Results		Limit		Margin		Phase	Comment
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]		
0.15055	48.3	18.1	0.3	48.6	18.4	66.0	56.0	17.4	37.6	N	
0.18427	47.6	36.2	0.3	47.9	36.5	64.3	54.3	16.4	17.8	N	
3.23200	35.3	10.2	0.6	35.9	10.8	56.0	46.0	20.1	35.2	N	
7.48894	22.1	10.0	0.9	23.0	10.9	60.0	50.0	37.0	39.1	N	
20.36024	21.3	13.9	1.8	23.1	15.7	60.0	50.0	36.9	34.3	N	
28.50042	21.6	15.5	1.9	23.5	17.4	60.0	50.0	36.5	32.6	N	
0.15085	48.1	17.7	0.3	48.4	18.0	66.0	56.0	17.6	38.0	L	
0.18422	47.9	32.2	0.3	48.2	32.5	64.3	54.3	16.1	21.8	L	
3.22410	35.6	10.2	0.6	36.2	10.8	56.0	46.0	19.8	35.2	L	
7.48822	22.5	12.7	0.9	23.4	13.6	60.0	50.0	36.6	36.4	L	
20.34024	20.3	14.2	1.7	22.0	15.9	60.0	50.0	38.0	34.1	L	
28.50042	21.4	15.4	1.9	23.3	17.3	60.0	50.0	36.7	32.7	L	

CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT[dBuA]=READING[dBuV]+C.F[dB] (Probe factor+CABLE LOSS)
 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, 36Mbps, Ch: Mid

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2008/04/19

Company : Sony Corporation
Kind of EUT : Digital Photo Frame
Model No. : VGF-CP1
Serial No. : 1000009

Report No. : 281E0011-HO-01
Power : AC 120V / 60Hz (DC 6V)
Temp./Humi. : 24deg.C / 45%
Operator : Motoya Imura

Mode / Remarks : Tx, 11g, 36Mbps, 2437MHz

LIMIT : FCC15.207 QP
FCC15.207 AV

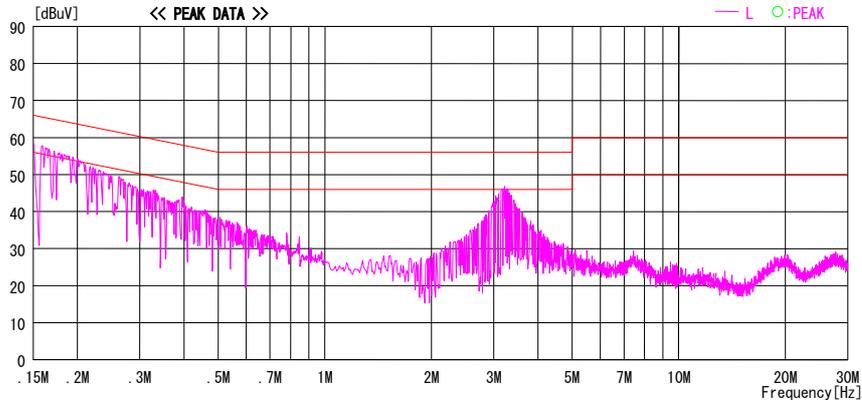
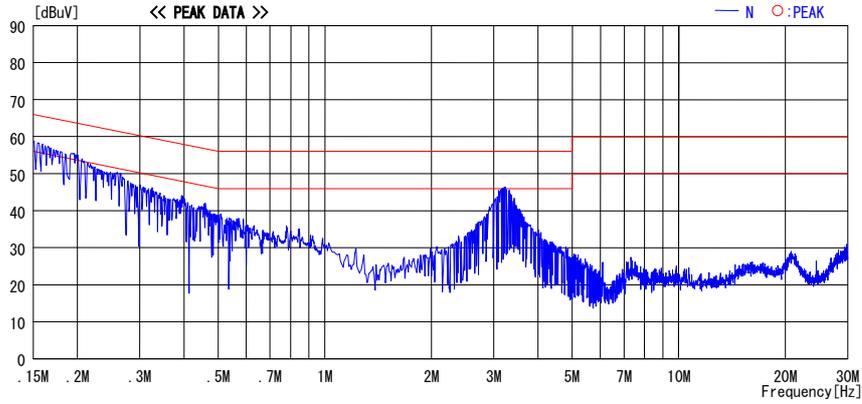


CHART: WITH FACTOR, Peak hold data. CALCURATION: RESULT[dBuA]=READING[dBuV]+C.F[dB] (Probe factor+CABLE LOSS)
Except for the above table: adequate margin data below the limits.

Conducted Emission
Tx, 11g, 36Mbps, Ch: High

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2008/04/19

Company : Sony Corporation
Kind of EUT : Digital Photo Frame
Model No. : VGF-CP1
Serial No. : 1000009

Report No. : 281E0011-HO-01
Power : AC 120V / 60Hz (DC 6V)
Temp./Humi. : 24deg.C / 45%
Operator : Motoya Imura

Mode / Remarks : Tx, 11g, 36Mbps, 2462MHz

LIMIT : FCC15.207 QP
FCC15.207 AV

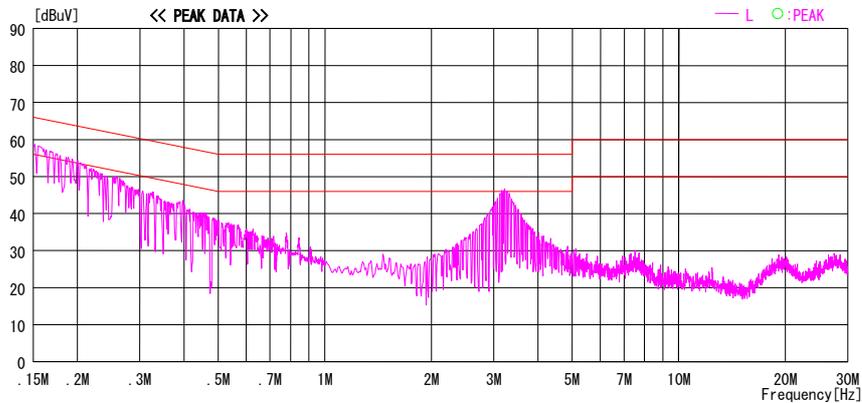
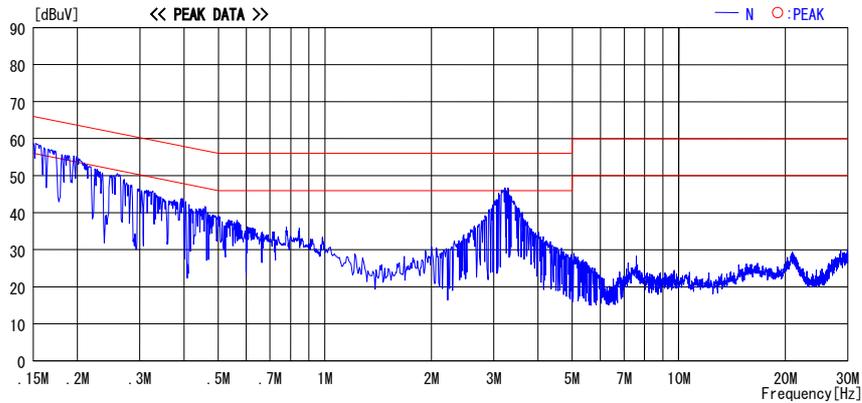


CHART: WITH FACTOR, Peak hold data. CALCURATION: RESULT[dBuA]=READING[dBuV]+C.F[dB] (Probe factor+CABLE LOSS)
Except for the above table: adequate margin data below the limits.

Conducted Emission
Rx, 11b/11g, Ch: Mid

DATA OF CONDUCTED EMISSION TEST

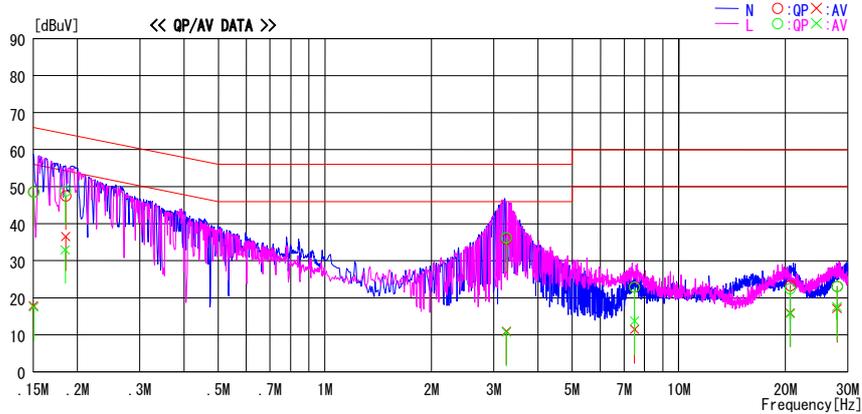
UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
 Date : 2008/04/19

Company : Sony Corporation
 Kind of EUT : Digital Photo Frame
 Model No. : VGF-CP1
 Serial No. : 1000009

Report No. : 28IE0011-HO-01
 Power : AC 120V / 60Hz (DC 6V)
 Temp./Humi. : 24deg.C / 45%
 Operator : Motoya Imura

Mode / Remarks : Rx, 11b/g, 2437MHz

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]		
0.15015	48.3	17.6	0.3	48.6	17.9	66.0	56.0	17.4	38.1	N	
0.18528	47.3	36.2	0.3	47.6	36.5	64.2	54.2	16.6	17.7	N	
3.25900	35.2	10.4	0.6	35.8	11.0	56.0	46.0	20.2	35.0	N	
7.48894	22.0	10.5	0.9	22.9	11.4	60.0	50.0	37.1	38.6	N	
20.64024	21.5	14.1	1.8	23.3	15.9	60.0	50.0	36.7	34.1	N	
27.98041	21.2	15.2	1.9	23.1	17.1	60.0	50.0	36.9	32.9	N	
0.15050	48.3	17.2	0.3	48.6	17.5	66.0	56.0	17.4	38.5	L	
0.18485	48.5	32.7	0.3	48.8	33.0	64.3	54.3	15.5	21.3	L	
3.25900	35.6	10.1	0.6	36.2	10.7	56.0	46.0	19.8	35.3	L	
7.48894	22.0	12.8	0.9	22.9	13.7	60.0	50.0	37.1	36.3	L	
20.62024	20.7	14.0	1.8	22.5	15.8	60.0	50.0	37.5	34.2	L	
28.00041	21.2	15.7	1.9	23.1	17.6	60.0	50.0	36.9	32.4	L	

CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT[dBuA]=READING[dBuV]+C.F[dB] (Probe factor+CABLE LOSS)
 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.6 Shielded Room

Company : Sony Corporation
Equipment : Digital Photo Frame
Model No. : VGF-CP1
Serial No. : 1000009
Power : AC120V/60Hz (DC 6V)
Mode : Tx, 11b, 11Mbps
: Tx, 11g, 36Mbps

Regulation : FCC15.247(a)(2)/RSS-210A8.2(a)
Test distance : -
Date : 04/16/2008
Temperature : 24 deg. C
Humidity : 35 %
Engineer : Hisayoshi Sato

11b, 11Mbps

Ch	Freq. [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
Low	2412.0	9.604	>500
Mid	2437.0	10.385	>500
High	2462.0	9.997	>500

11g, 36Mbps

Ch	Freq. [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
Low	2412.0	16.489	>500
Mid	2437.0	16.486	>500
High	2462.0	16.519	>500

UL Japan, Inc.

Head Office EMC Lab.

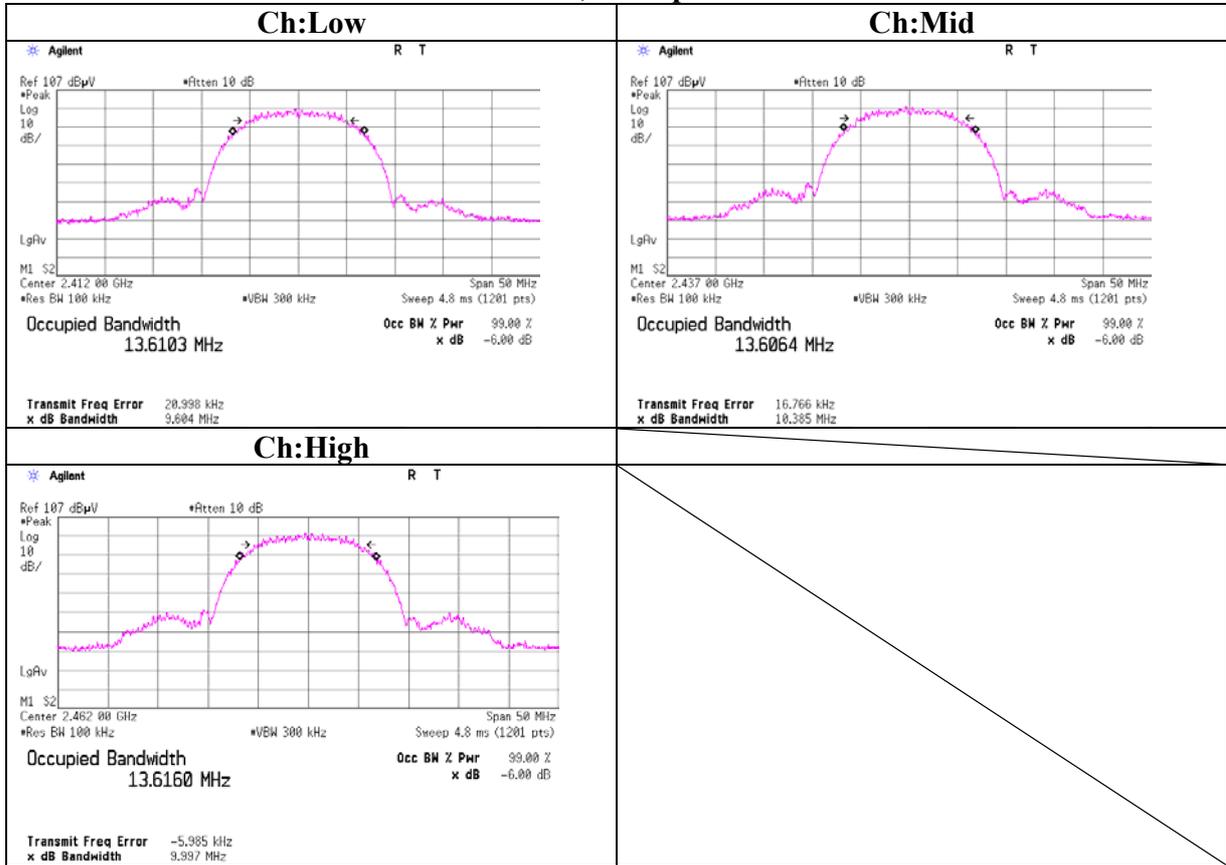
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

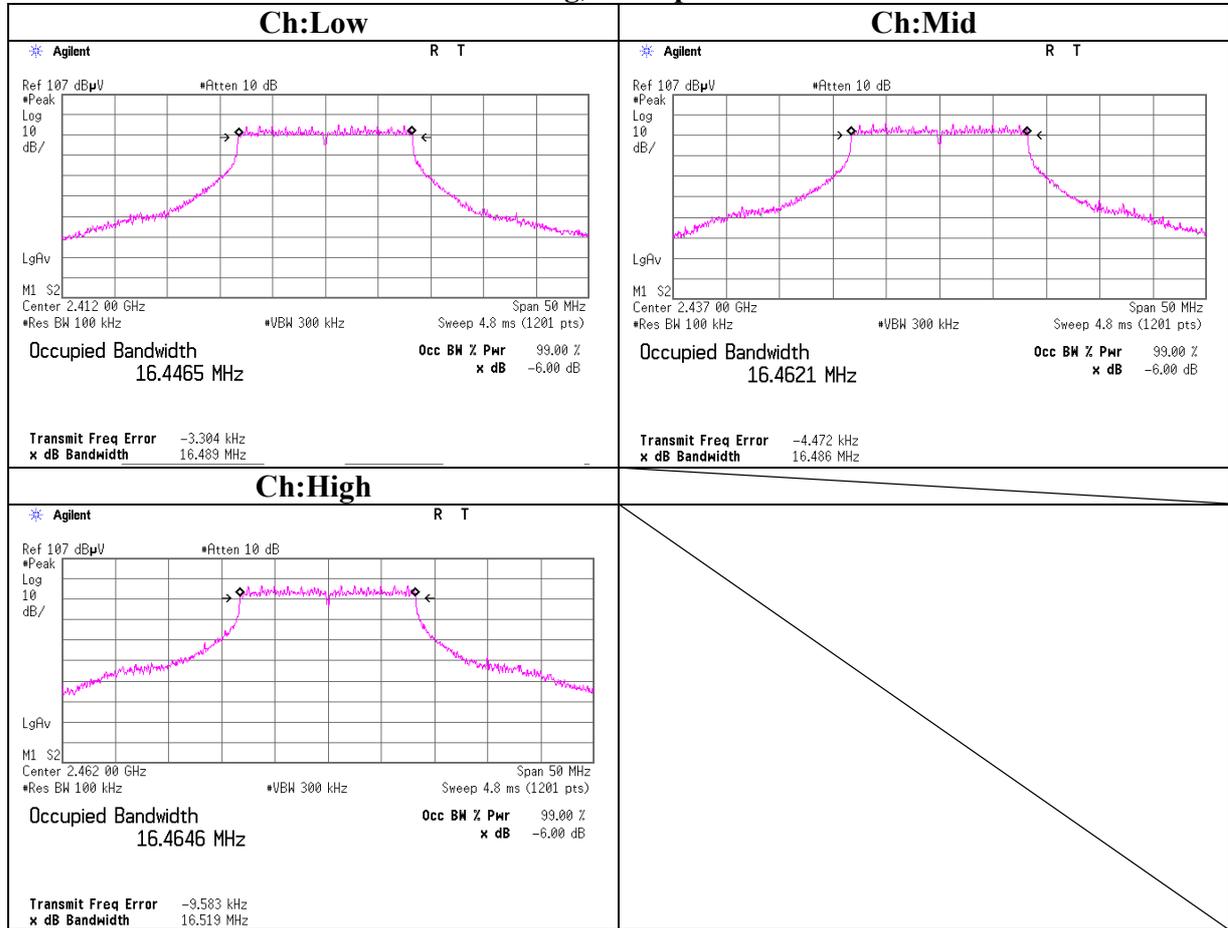
6dB Bandwidth

11b, 11Mbps



6dB Bandwidth

11g, 36Mbps



Maximum Peak Output Power

UL Japan, Inc.
 Head Office EMC Lab. No.3 Shielded Room

Company : Sony Corporation	Regulation : FCC15.247(b)(3)/RSS-210A8.4(4)
Equipment : Digital Photo Frame	Test distance : -
Model No. : VGF-CP1	Date : April 14, 2008
Serial No. : 1000009	Temperature : 20deg.C.
Power : AC120V/60Hz (DC 6V)	Humidity : 60%
Mode : Tx (Ch L, M, H)	Engineer : Akio Hayashi

11b, 11Mbps

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2412.0	3.93	1.70	10.22	15.85	38.46	30.00	1000	14.15
Mid	2437.0	2.93	1.70	10.23	14.86	30.62	30.00	1000	15.14
High	2462.0	4.61	1.70	10.23	16.54	45.08	30.00	1000	13.46

Sample Calculation:

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

11g, 36Mbps

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2412.0	8.29	1.70	10.22	20.21	104.95	30.00	1000	9.79
Mid	2437.0	7.05	1.70	10.23	18.98	79.07	30.00	1000	11.02
High	2462.0	8.89	1.70	10.23	20.82	120.78	30.00	1000	9.18

Sample Calculation:

Result = Reading + Cable Loss (supplied 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

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

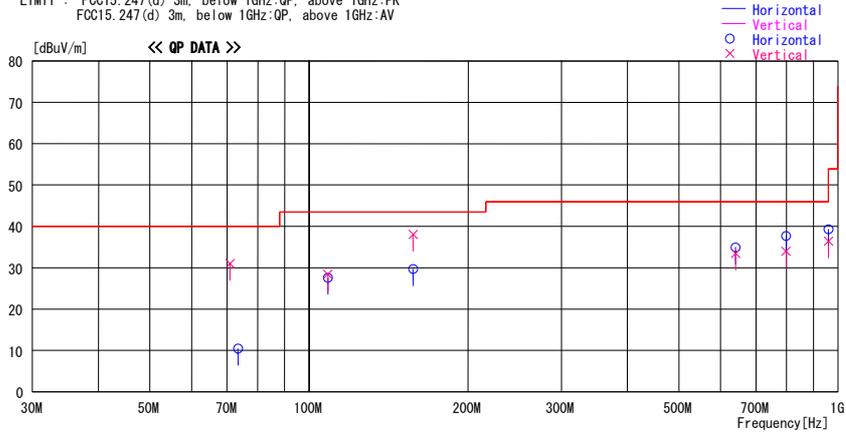
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
 Date : 2008/04/14

Company : Sony Corporation
 Kind of EUT : Digital Photo Frame
 Model No. : VGF-CP1
 Serial No. : 1000009
 Report No. : 28IE0011-HO-01
 Power : AC120V/60Hz (DC 6V)
 Temp./Humi. : 20deg.C / 36%
 Operator : Motoya Imura

Mode / Remarks : Tx, 11b, 11Mbps, 2412MHz, Worst axis(Hor:Z, Ver:X)

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]						
70.941	48.7	QP	6.6	-24.3	31.0	240	100	Vert.	40.0	9.0
73.383	28.1	QP	6.5	-24.2	10.4	261	311	Hori.	40.0	29.6
108.546	40.3	QP	11.1	-23.8	27.6	85	311	Hori.	43.5	15.9
108.594	41.1	QP	11.1	-23.8	28.4	204	100	Vert.	43.5	15.1
157.448	46.1	QP	15.2	-23.3	38.0	111	107	Vert.	43.5	5.5
157.463	37.8	QP	15.2	-23.3	29.7	65	235	Hori.	43.5	13.8
640.532	35.5	QP	19.5	-20.1	34.9	358	100	Hori.	46.0	11.1
640.535	34.0	QP	19.5	-20.1	33.4	77	110	Vert.	46.0	12.6
797.992	34.7	QP	21.8	-18.8	37.7	168	217	Hori.	46.0	8.3
798.003	31.0	QP	21.8	-18.8	34.0	77	100	Vert.	46.0	12.0
959.994	34.1	QP	22.5	-17.3	39.3	109	223	Hori.	46.0	6.7
959.994	31.2	QP	22.5	-17.3	36.4	196	145	Vert.	46.0	9.6

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 rounded off to one or two decimal places, so some differences might be observed.

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

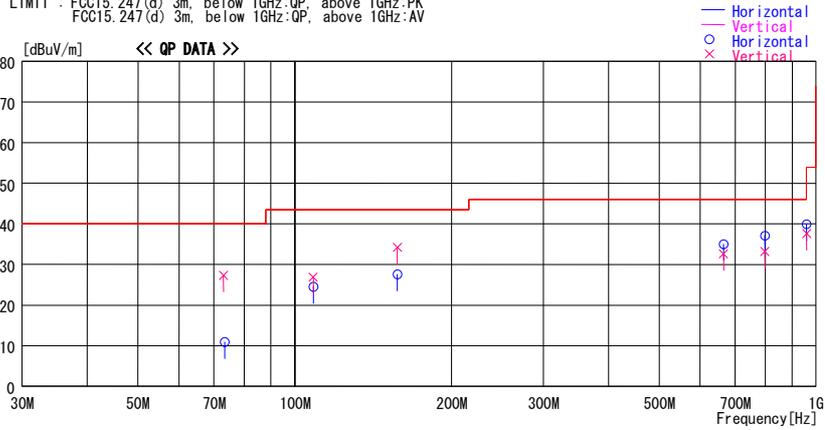
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber
 Date : 2008/04/15

Company : Sony Corporation Report No. : 28IE0011-HO-01
 Kind of EUT : Digital Photo Frame Power : AC120V/60Hz (DC 6V)
 Model No. : VGF-CP1 Temp./Humi. : 20deg. C / 36%
 Serial No. : 1000009 Operator : Motoya Imura

Mode / Remarks : Tx, 11b, 11Mbps, 2437MHz, Worst axis(Hor:Z, Ver:X)

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]	Loss& Gain						
73.027	45.0	QP	6.5	-24.2	27.3	225	100	Vert.	40.0	12.7
73.391	28.6	QP	6.5	-24.2	10.9	277	303	Hor.	40.0	29.1
108.544	37.2	QP	11.1	-23.8	24.5	104	297	Hor.	43.5	19.0
108.538	39.6	QP	11.1	-23.8	26.9	132	100	Vert.	43.5	16.6
157.458	42.3	QP	15.2	-23.3	34.2	65	157	Vert.	43.5	9.3
157.453	35.7	QP	15.2	-23.3	27.6	172	186	Hor.	43.5	15.9
665.000	35.2	QP	19.7	-19.9	35.0	12	100	Hor.	46.0	11.0
665.002	32.8	QP	19.7	-19.9	32.6	217	256	Vert.	46.0	13.4
797.998	34.1	QP	21.8	-18.8	37.1	142	213	Hor.	46.0	8.9
798.002	30.2	QP	21.8	-18.8	33.2	350	122	Vert.	46.0	12.8
960.001	34.7	QP	22.5	-17.3	39.9	102	243	Hor.	53.9	14.0
960.002	32.4	QP	22.5	-17.3	37.6	174	109	Vert.	53.9	16.3

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 rounded off to one or two decimal places, so some differences might be observed.

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

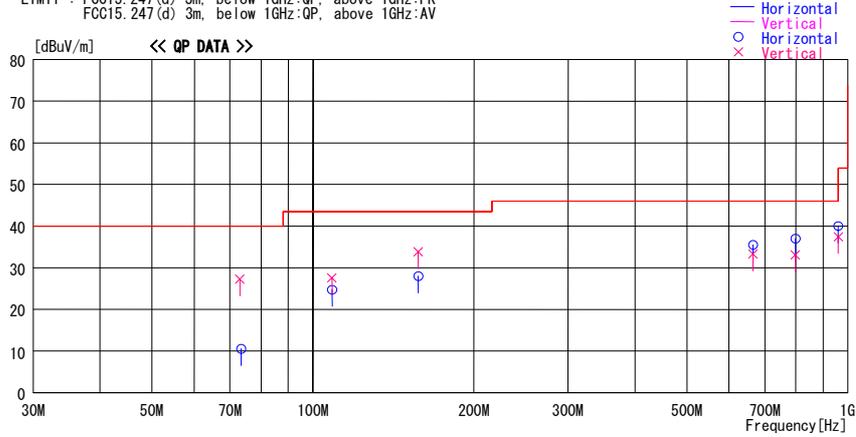
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
 Date : 2008/04/15

Company : Sony Corporation
 Kind of EUT : Digital Photo Frame
 Model No. : VGF-CP1
 Serial No. : 1000009
 Report No. : 28IE0011-HO-01
 Power : AC120V/60Hz (DC 6V)
 Temp./Humi. : 20deg.C / 36%
 Operator : Motoya Imura

Mode / Remarks : Tx, 11b, 11Mbps, 2462MHz, Worst axis (Hor:Z, Ver:X)

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]						
73.030	45.0	QP	6.5	-24.2	27.3	22	100	Vert.	40.0	12.7
73.376	28.2	QP	6.5	-24.2	10.5	84	336	Hori.	40.0	29.5
108.541	37.4	QP	11.1	-23.8	24.7	113	286	Hori.	43.5	18.8
108.541	40.2	QP	11.1	-23.8	27.5	142	113	Vert.	43.5	16.0
157.459	41.9	QP	15.2	-23.3	33.8	67	104	Vert.	43.5	9.7
157.454	36.1	QP	15.2	-23.3	28.0	180	203	Hori.	43.5	15.5
665.002	35.7	QP	19.7	-19.9	35.5	167	137	Hori.	46.0	10.5
665.001	33.5	QP	19.7	-19.9	33.3	220	249	Vert.	46.0	12.7
797.998	34.0	QP	21.8	-18.8	37.0	133	232	Hori.	46.0	9.0
798.002	30.1	QP	21.8	-18.8	33.1	104	188	Vert.	46.0	12.9
959.998	34.8	QP	22.5	-17.3	40.0	129	231	Hori.	46.0	6.0
960.001	32.2	QP	22.5	-17.3	37.4	188	110	Vert.	53.9	16.5

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 rounded off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (below 1GHz)
Tx, 11g, 36Mbps, Ch: Low

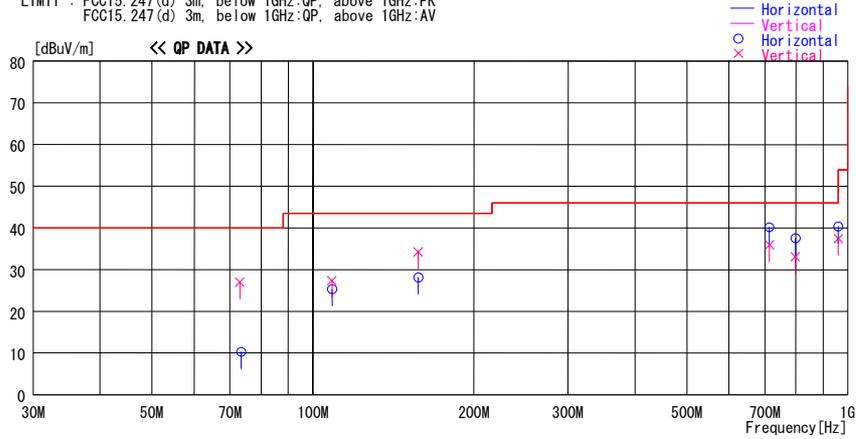
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber
 Date : 2008/04/15

Company : Sony Corporation
 Kind of EUT : Digital Photo Frame
 Model No. : VGF-CP1
 Serial No. : 1000009
 Report No. : 28IE0011-HO-01
 Power : AC120V/60Hz (DC 6V)
 Temp./Humi. : 20deg.C / 36%
 Operator : Motoya Imura

Mode / Remarks : Tx, 11g, 36Mbps, 2412MHz, Worst axis(Hor:Z, Ver:X)

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]						
73.027	44.7	QP	6.5	-24.2	27.0	42	108	Vert.	40.0	13.0
73.381	28.0	QP	6.5	-24.2	10.3	89	327	Hori.	40.0	29.7
108.542	38.0	QP	11.1	-23.8	25.3	123	276	Hori.	43.5	18.2
108.540	40.1	QP	11.1	-23.8	27.4	142	109	Vert.	43.5	16.1
157.461	42.3	QP	15.2	-23.3	34.2	72	107	Vert.	43.5	9.3
157.455	36.2	QP	15.2	-23.3	28.1	177	210	Hori.	43.5	15.4
713.924	39.7	QP	20.1	-19.6	40.2	8	104	Hori.	46.0	5.8
713.924	35.4	QP	20.1	-19.6	35.9	212	170	Vert.	46.0	10.1
797.999	34.5	QP	21.8	-18.8	37.5	133	232	Hori.	46.0	8.5
798.002	30.1	QP	21.8	-18.8	33.1	93	189	Vert.	46.0	12.9
959.998	35.1	QP	22.5	-17.3	40.3	151	238	Hori.	46.0	5.7
960.001	32.2	QP	22.5	-17.3	37.4	192	108	Vert.	53.9	16.5

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 rounded off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (below 1GHz)
Tx, 11g, 36Mbps, Ch: Mid

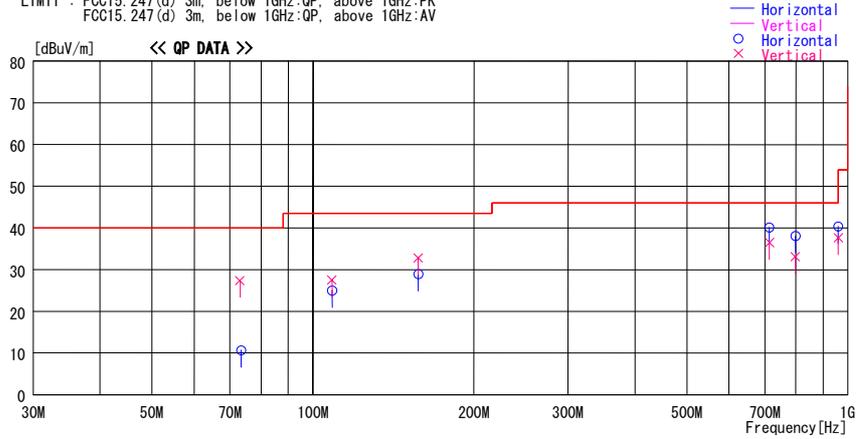
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No. 3 Semi Anechoic Chamber
 Date : 2008/04/15

Company : Sony Corporation
 Kind of EUT : Digital Photo Frame
 Model No. : VGF-CP1
 Serial No. : 1000009
 Report No. : 28IE0011-HO-01
 Power : AC120V/60Hz (DC 6V)
 Temp./Humi. : 20deg.C / 36%
 Operator : Motoya Imura

Mode / Remarks : Tx, 11g, 36Mbps, 2437MHz, Worst axis(Hor:Z, Ver:X)

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]						
73.077	45.1	QP	6.5	-24.2	27.4	350	108	Vert.	40.0	12.6
73.381	28.4	QP	6.5	-24.2	10.7	91	330	Hori.	40.0	29.3
108.548	37.7	QP	11.1	-23.8	25.0	121	272	Hori.	43.5	18.5
108.543	40.2	QP	11.1	-23.8	27.5	149	114	Vert.	43.5	16.0
157.462	40.9	QP	15.2	-23.3	32.8	51	104	Vert.	43.5	10.7
157.453	37.0	QP	15.2	-23.3	28.9	188	210	Hori.	43.5	14.6
713.915	39.6	QP	20.1	-19.6	40.1	5	110	Hori.	46.0	5.9
713.918	36.0	QP	20.1	-19.6	36.5	226	155	Vert.	46.0	9.5
798.000	35.1	QP	21.8	-18.8	38.1	141	241	Hori.	46.0	7.9
798.001	30.1	QP	21.8	-18.8	33.1	113	169	Vert.	46.0	12.9
960.002	35.1	QP	22.5	-17.3	40.3	133	238	Hori.	53.9	13.6
960.001	32.4	QP	22.5	-17.3	37.6	197	115	Vert.	53.9	16.3

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 rounded off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (below 1GHz)
Tx, 11g, 36Mbps, Ch: High

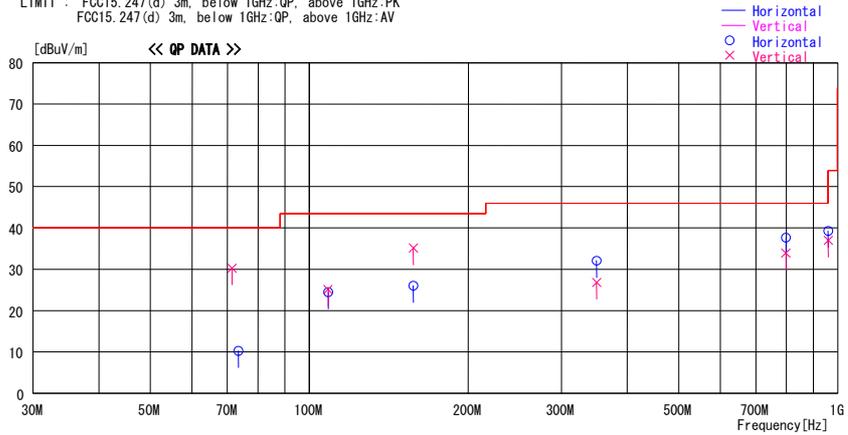
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
 Date : 2008/04/14

Company : Sony Corporation
 Kind of EUT : Digital Photo Frame
 Model No. : VGF-CP1
 Serial No. : 1000009
 Report No. : 281E0011-HO-01
 Power : AC120V/60Hz (DC 6V)
 Temp./Humi. : 20deg. C / 36%
 Operator : Motoya Imura

Mode / Remarks : Tx, 11g, 36Mbps, 2462MHz, Worst axis(Hor:Z, Ver:X)

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]						
71.446	48.0	QP	6.6	-24.3	30.3	252	100	Vert.	40.0	9.7
73.379	28.0	QP	6.5	-24.2	10.3	271	308	Hori.	40.0	29.7
108.542	37.2	QP	11.1	-23.8	24.5	105	297	Hori.	43.5	19.0
108.541	37.8	QP	11.1	-23.8	25.1	72	100	Vert.	43.5	18.4
157.446	43.2	QP	15.2	-23.3	35.1	89	100	Vert.	43.5	8.4
157.459	34.1	QP	15.2	-23.3	26.0	119	219	Hori.	43.5	17.5
350.079	37.9	QP	16.0	-21.8	32.1	86	100	Hori.	46.0	13.9
350.080	32.6	QP	16.0	-21.8	26.8	11	143	Vert.	46.0	19.2
797.992	34.7	QP	21.8	-18.8	37.7	168	217	Hori.	46.0	8.3
797.992	30.9	QP	21.8	-18.8	33.9	227	156	Vert.	46.0	12.1
959.994	34.1	QP	22.5	-17.3	39.3	109	223	Hori.	46.0	6.7
959.999	31.8	QP	22.5	-17.3	37.0	211	175	Vert.	46.0	9.0

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 rounded off to one or two decimal places, so some differences might be observed.

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

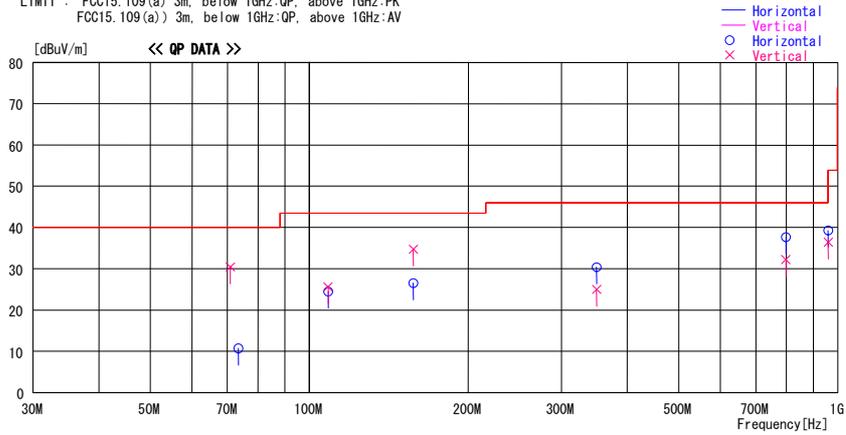
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.3 Semi Anechoic Chamber
 Date : 2008/04/15

Company : Sony Coporation
 Kind of EUT : Digital Photo Frame
 Model No. : VGF-CP1
 Serial No. : 1000009
 Report No. : 281E0011-HO-01
 Power : AC120V/60Hz (DC 6V)
 Temp./Humi. : 20deg. C / 36%
 Operator : Motoya Imura

Mode / Remarks : Rx, 11b/g, 2437MHz, Worst axis(Hor:Z, Ver:X)

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:PK
 FCC15.109(a) 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]						
70.939	48.1	QP	6.6	-24.3	30.4	95	100	Vert.	40.0	9.6
73.387	28.4	QP	6.5	-24.2	10.7	283	311	Hori.	40.0	29.3
108.542	37.2	QP	11.1	-23.8	24.5	107	284	Hori.	43.5	19.0
108.543	38.3	QP	11.1	-23.8	25.6	168	100	Vert.	43.5	17.9
157.463	42.8	QP	15.2	-23.3	34.7	93	107	Vert.	43.5	8.8
157.459	34.6	QP	15.2	-23.3	26.5	167	192	Hori.	43.5	17.0
350.081	36.2	QP	16.0	-21.8	30.4	89	100	Hori.	46.0	15.6
350.080	30.8	QP	16.0	-21.8	25.0	4	133	Vert.	46.0	21.0
797.992	34.7	QP	21.8	-18.8	37.7	168	217	Hori.	46.0	8.3
797.996	29.2	QP	21.8	-18.8	32.2	351	100	Vert.	46.0	13.8
959.994	34.1	QP	22.5	-17.3	39.3	109	223	Hori.	46.0	6.7
959.989	31.2	QP	22.5	-17.3	36.4	196	122	Vert.	46.0	9.6

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 rounded off to one or two decimal places, so some differences might be observed.

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

UL Japan, Inc.

Company : Sony Corporation
Equipment : Digital Photo Frame
Model : VGF-CP1
S/N : 1000009
Power : AC120V/60Hz (DC 6V)
Mode : 11b, Tx 2412MHz, 11Mbps
Position : H: Z-axis, V: X-axis

Head Office EMC Lab. No.3 Semi Anechoic Chamber
Regulation : FCC15.247(d) / RSS-210 A8.5
Test Distance : 3m / 1m
Date : April 14, 2008
Temperature : 20deg.C.
Humidity : 60%
Engineer : Akio Hayashi

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

No.	FREQ [MHz]	S/A READING [dBuV]		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT [dBuV/m]		Limit PK [dBuV/m]	MARGIN [dB]	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1200.00	55.4	53.7	25.2	34.8	2.0	0.0	47.8	46.1	73.9	26.1	27.8
2	2390.00	49.1	45.0	27.3	32.8	2.6	0.0	46.2	42.1	73.9	27.7	31.8
3	2400.00	53.8	49.9	27.3	32.8	2.6	0.0	50.9	47.0	73.9	23.0	26.9
4	4824.00	41.0	40.3	31.6	30.7	4.1	0.8	46.8	46.1	73.9	27.1	27.8
5	7236.00	37.0	37.1	35.8	31.4	4.6	0.7	46.7	46.8	73.9	27.2	27.1
6	9648.00	39.3	40.1	38.2	32.0	5.4	1.1	52.0	52.8	73.9	21.9	21.1
Test distance 1meters 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	38.8	38.6	38.7	31.0	7.7	0.0	44.7	44.5	73.9	29.2	29.4

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

No.	FREQ [MHz]	S/A READING [dBuV]		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT [dBuV/m]		Limit AV [dBuV/m]	MARGIN [dB]	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1200.00	44.5	42.3	25.2	34.8	2.0	0.0	36.9	34.7	53.9	17.0	19.2
2	2390.00	37.6	38.8	27.3	32.8	2.6	0.0	34.7	35.9	53.9	19.2	18.0
3	2400.00	41.5	39.2	27.3	32.8	2.6	0.0	38.6	36.3	53.9	15.3	17.6
4	4824.00	29.2	29.2	31.6	30.7	4.1	0.8	35.0	35.0	53.9	18.9	18.9
5	7236.00	26.7	26.9	35.8	31.4	4.6	0.7	36.4	36.6	53.9	17.5	17.3
6	9648.00	30.0	29.5	38.2	32.0	5.4	1.1	42.7	42.2	53.9	11.2	11.7
Test distance 1meters 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	29.9	29.9	38.7	31.0	7.7	0.0	35.8	35.8	53.9	18.1	18.1

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, 11Mbps, Ch: Mid

UL Japan, Inc.

Head Office EMC Lab. No.3 Semi Anechoic Chamber

Company : Sony Corporation
Equipment : Digital Photo Frame
Model : VGF-CP1
S/N : 1000009
Power : AC120V/60Hz (DC 6V)
Mode : 11b, Tx 2437MHz, 11Mbps
Position : H: Z-axis, V: X-axis

Regulation : FCC15.247(d) / RSS-210 A8.5
Test Distance : 3m / 1m
Date : April 14, 2008
Temperature : 20deg.C.
Humidity : 60%
Engineer : Akio Hayashi

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	1200.00	55.3	54.2	25.2	34.8	2.0	0.0	47.7	46.6	73.9	26.2	27.3
2	4874.00	45.6	45.2	31.7	30.6	4.1	0.8	51.6	51.2	73.9	22.3	22.7
3	7311.00	36.8	36.6	35.9	31.4	4.6	0.7	46.6	46.4	73.9	27.3	27.5
4	9748.00	39.4	37.6	38.2	32.1	5.5	1.2	52.2	50.4	73.9	21.7	23.5
Test distance 1meters 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	37.5	38.6	38.8	30.6	7.7	0.0	43.9	45.0	73.9	30.0	28.9

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
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1200.00	43.2	44.1	25.2	34.8	2.0	0.0	35.6	36.5	53.9	18.3	17.4
2	4874.00	31.1	30.0	31.7	30.6	4.1	0.8	37.1	36.0	53.9	16.8	17.9
3	7311.00	26.5	26.4	35.9	31.4	4.6	0.7	36.3	36.2	53.9	17.6	17.7
4	9748.00	29.8	27.5	38.2	32.1	5.5	1.2	42.6	40.3	53.9	11.3	13.6
Test distance 1meters 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	27.6	27.5	38.8	30.6	7.7	0.0	34.0	33.9	53.9	19.9	20.0

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, 11Mbps, Ch: High

UL Japan, Inc.

Head Office EMC Lab. No.3 Semi Anechoic Chamber

Company : Sony Corporation
Equipment : Digital Photo Frame
Model : VGF-CP1
S/N : 1000009
Power : AC120V/60Hz (DC 6V)
Mode : 11b, Tx 2462MHz, 11Mbps
Position : H: Z-axis, V: X-axis

Regulation : FCC15.247(d) / RSS-210 A8.5
Test Distance : 3m / 1m
Date : April 14, 2008
Temperature : 20deg.C.
Humidity : 60%
Engineer : Akio Hayashi

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
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1200.00	55.0	51.7	25.2	34.8	2.0	0.0	47.4	44.1	73.9	26.5	29.8
2	2483.50	53.3	49.9	27.4	32.8	2.7	0.0	50.6	47.2	73.9	23.3	26.7
3	4924.00	47.4	47.3	31.7	30.6	4.1	0.8	53.4	53.3	73.9	20.5	20.6
4	7386.00	37.5	35.3	36.0	31.4	4.6	0.7	47.4	45.2	73.9	26.5	28.7
5	9848.00	41.0	38.5	38.2	32.2	5.5	1.2	53.7	51.2	73.9	20.2	22.7
Test distance 1meters 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	39.1	40.0	38.8	30.2	7.7	0.0	45.9	46.8	73.9	28.0	27.1

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1200.00	43.3	39.9	25.2	34.8	2.0	0.0	35.7	32.3	53.9	18.2	21.6
2	2483.50	43.6	37.6	27.4	32.8	2.7	0.0	40.9	34.9	53.9	13.0	19.0
3	4924.00	32.5	32.2	31.7	30.6	4.1	0.8	38.5	38.2	53.9	15.4	15.7
4	7386.00	28.0	27.6	36.0	31.4	4.6	0.7	37.9	37.5	53.9	16.0	16.4
5	9848.00	29.5	29.4	38.2	32.2	5.5	1.2	42.2	42.1	53.9	11.7	11.8
Test distance 1meters 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	30.4	30.3	38.8	30.2	7.7	0.0	37.2	37.1	53.9	16.7	16.8

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

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Radiated Spurious Emission (above 1GHz)

Tx, 11g, 36Mbps, Ch: Low

UL Japan, Inc.

Head Office EMC Lab. No.3 Semi Anechoic Chamber

Company : Sony Corporation
Equipment : Digital Photo Frame
Model : VGF-CP1
S/N : 1000009
Power : AC120V/60Hz (DC 6V)
Mode : 11g, Tx 2412MHz, 36Mbps
Position : H: Z-axis, V: X-axis

Regulation : FCC15.247(d) / RSS-210 A8.5
Test Distance : 3m / 1m
Date : April 14, 2008
Temperature : 20deg.C.
Humidity : 60%
Engineer : Akio Hayashi

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	1200.00	54.1	53.4	25.2	34.8	2.0	0.0	46.5	45.8	73.9	27.4	28.1
2	2390.00	54.3	51.0	27.3	32.8	2.6	0.0	51.4	48.1	73.9	22.5	25.8
3*	2400.00	71.1	65.4	27.3	32.8	2.6	0.0	68.2	62.5	73.9	-	-
4	4824.00	36.1	38.2	31.6	30.7	4.1	0.8	41.9	44.0	73.9	32.0	29.9
5	7236.00	37.5	36.2	35.8	31.4	4.6	0.7	47.2	45.9	73.9	26.7	28.0
6	9648.00	37.2	38.0	38.2	32.0	5.4	1.1	49.9	50.7	73.9	24.0	23.2
Test distance 1meters 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	39.8	38.8	38.7	31.0	7.7	0.0	45.7	44.7	73.9	28.2	29.2

*:Reference Data

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	1200.00	43.1	40.6	25.2	34.8	2.0	0.0	35.5	33.0	53.9	18.4	20.9
2	2390.00	41.4	38.8	27.3	32.8	2.6	0.0	38.5	35.9	53.9	15.4	18.0
3*	2400.00	40.2	41.6	27.3	32.8	2.6	0.0	37.3	38.7	53.9	-	-
4	4824.00	26.7	26.7	31.6	30.7	4.1	0.8	32.5	32.5	53.9	21.4	21.4
5	7236.00	26.2	26.7	35.8	31.4	4.6	0.7	35.9	36.4	53.9	18.0	17.5
6	9648.00	27.5	27.9	38.2	32.0	5.4	1.1	40.2	40.6	53.9	13.7	13.3
Test distance 1meters 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	30.0	38.7	31.0	7.7	0.0	36.0	35.9	53.9	17.9	18.0

*: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
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
0	2412.00	94.2	90.1	27.3	32.8	2.7	0.0	91.4	87.3	-	-	-
3	2400.00	56.8	54.5	27.3	32.8	2.6	0.0	53.9	51.6	Funda-20dB	17.5	15.7

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

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Radiated Spurious Emission (above 1GHz)

Tx, 11g, 36Mbps, Ch: Mid

UL Japan, Inc.

Head Office EMC Lab. No.3 Semi Anechoic Chamber

Company : Sony Corporation
Equipment : Digital Photo Frame
Model : VGF-CP1
S/N : 1000009
Power : AC120V/60Hz (DC 6V)
Mode : 11g, Tx 2437MHz, 36Mbps
Position : H: Z-axis, V: X-axis

Regulation : FCC15.247(d) / RSS-210 A8.5
Test Distance : 3m / 1m
Date : April 14, 2008
Temperature : 20deg.C.
Humidity : 60%
Engineer : Akio Hayashi

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	1200.00	53.6	55.2	25.2	34.8	2.0	0.0	46.0	47.6	73.9	27.9	26.3
2	4874.00	37.6	36.9	31.7	30.6	4.1	0.8	43.6	42.9	73.9	30.3	31.0
3	7311.00	36.5	37.4	35.9	31.4	4.6	0.7	46.3	47.2	73.9	27.6	26.7
4	9748.00	35.9	37.5	38.2	32.1	5.5	1.2	48.7	50.3	73.9	25.2	23.6
Test distance 1meters 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	36.8	37.0	38.8	30.6	7.7	0.0	43.2	43.4	73.9	30.7	30.5

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	1200.00	43.5	45.1	25.2	34.8	2.0	0.0	35.9	37.5	53.9	18.0	16.4
2	4874.00	26.6	26.6	31.7	30.6	4.1	0.8	32.6	32.6	53.9	21.3	21.3
3	7311.00	26.4	26.5	35.9	31.4	4.6	0.7	36.2	36.3	53.9	17.7	17.6
4	9748.00	27.3	27.4	38.2	32.1	5.5	1.2	40.1	40.2	53.9	13.8	13.7
Test distance 1meters 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	27.6	27.5	38.8	30.6	7.7	0.0	34.0	33.9	53.9	19.9	20.0

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, 11g, 36Mbps, Ch: High

UL Japan, Inc.

Head Office EMC Lab. No.3 Semi Anechoic Chamber

Company : Sony Corporation
Equipment : Digital Photo Frame
Model : VGF-CP1
S/N : 1000009
Power : AC120V/60Hz (DC 6V)
Mode : 11g, Tx 2462MHz, 36Mbps
Position : H: Z-axis, V: X-axis

Regulation : FCC15.247(d) / RSS-210 A8.5
Test Distance : 3m / 1m
Date : April 14, 2008
Temperature : 20deg.C.
Humidity : 60%
Engineer : Akio Hayashi

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
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1200.00	56.8	51.2	25.2	34.8	2.0	0.0	49.2	43.6	73.9	24.7	30.3
2	2483.50	61.2	60.6	27.4	32.8	2.7	0.0	58.5	57.9	73.9	15.4	16.0
3	4924.00	37.1	37.6	31.7	30.6	4.1	0.8	43.1	43.6	73.9	30.8	30.3
4	7386.00	38.7	37.4	36.0	31.4	4.6	0.7	48.6	47.3	73.9	25.3	26.6
5	9848.00	38.5	37.5	38.2	32.2	5.5	1.2	51.2	50.2	73.9	22.7	23.7
Test distance 1meters 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	39.4	39.2	38.8	30.2	7.7	0.0	46.2	46.0	73.9	27.7	27.9

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 [dBuV]	VER					HOR [dBuV/m]	VER		HOR [dB]	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1200.00	44.6	40.4	25.2	34.8	2.0	0.0	37.0	32.8	53.9	16.9	21.1
2	2483.50	41.2	41.2	27.4	32.8	2.7	0.0	38.5	38.5	53.9	15.4	15.4
3	4924.00	26.9	27.0	31.7	30.6	4.1	0.8	32.9	33.0	53.9	21.0	20.9
4	7386.00	27.6	27.6	36.0	31.4	4.6	0.7	37.5	37.5	53.9	16.4	16.4
5	9848.00	27.7	27.9	38.2	32.2	5.5	1.2	40.4	40.6	53.9	13.5	13.3
Test distance 1meters 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	30.7	30.6	38.8	30.2	7.7	0.0	37.5	37.4	53.9	16.4	16.5

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

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Radiated Spurious Emission (above 1GHz)

Rx, 11b/11g, Ch: Mid

UL Japan, Inc.

Head Office EMC Lab. No.3 Semi Anechoic Chamber

Company : Sony Corporation
Equipment : Digital Photo Frame
Model : VGF-CP1
S/N : 1000009
Power : AC120V/60Hz (DC 6V)
Mode : Rx 2437MHz
Position : H: Z-axis, V: X-axis

Regulation : FCC15.109(a) / RSS-210 A8.5
Test Distance : 3m / 1m
Date : April 14, 2008
Temperature : 20deg.C.
Humidity : 60%
Engineer : Akio Hayashi

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		
		[dBuV]		Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss										
1	1064.50	50.7	54.0	24.9	35.3	1.9	0.0	42.2	45.5	73.9	31.7	28.4		
2	1199.99	52.5	55.2	25.2	34.8	2.0	0.0	44.9	47.6	73.9	29.0	26.3		
3	1330.03	48.1	50.0	25.5	34.4	2.1	0.0	41.3	43.2	73.9	32.6	30.7		
4	2437.00	38.3	37.9	27.4	32.8	2.7	0.0	35.6	35.2	73.9	38.3	38.7		

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		
		[dBuV]		Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss										
1	1064.50	41.8	45.0	24.9	35.3	1.9	0.0	33.3	36.5	53.9	20.6	17.4		
2	1199.99	42.0	42.8	25.2	34.8	2.0	0.0	34.4	35.2	53.9	19.5	18.7		
3	1330.03	38.9	41.4	25.5	34.4	2.1	0.0	32.1	34.6	53.9	21.8	19.3		
4	2437.00	28.2	27.9	27.4	32.8	2.7	0.0	25.5	25.2	53.9	28.4	28.7		

*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.

UL Japan, Inc.

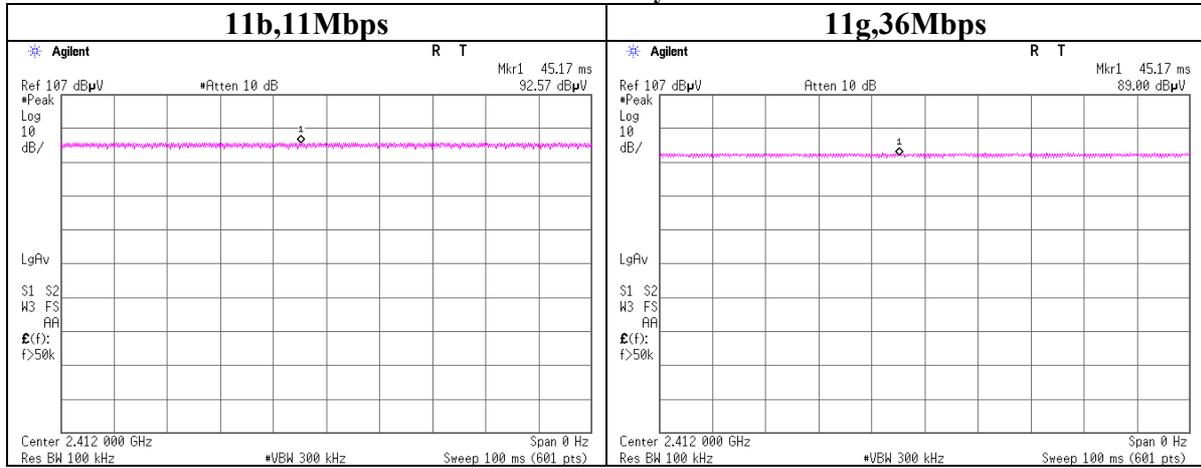
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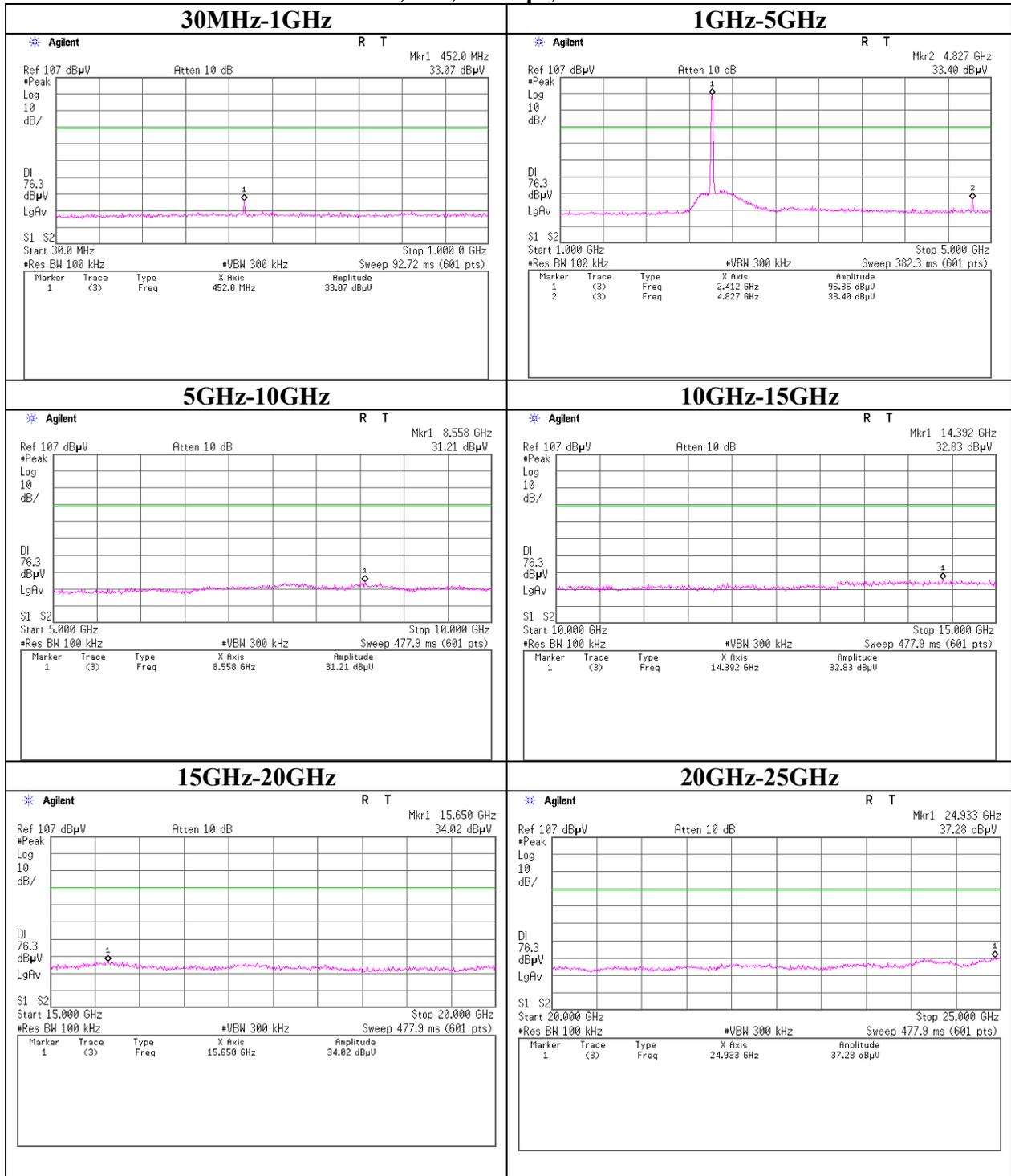
Radiated Spurious Emission
Duty



*Transmitting duty was 100% on Radiated Spurious Emission tests.

Conducted Spurious Emission

Tx, 11b, 11Mbps, Ch: Low



UL Japan, Inc.

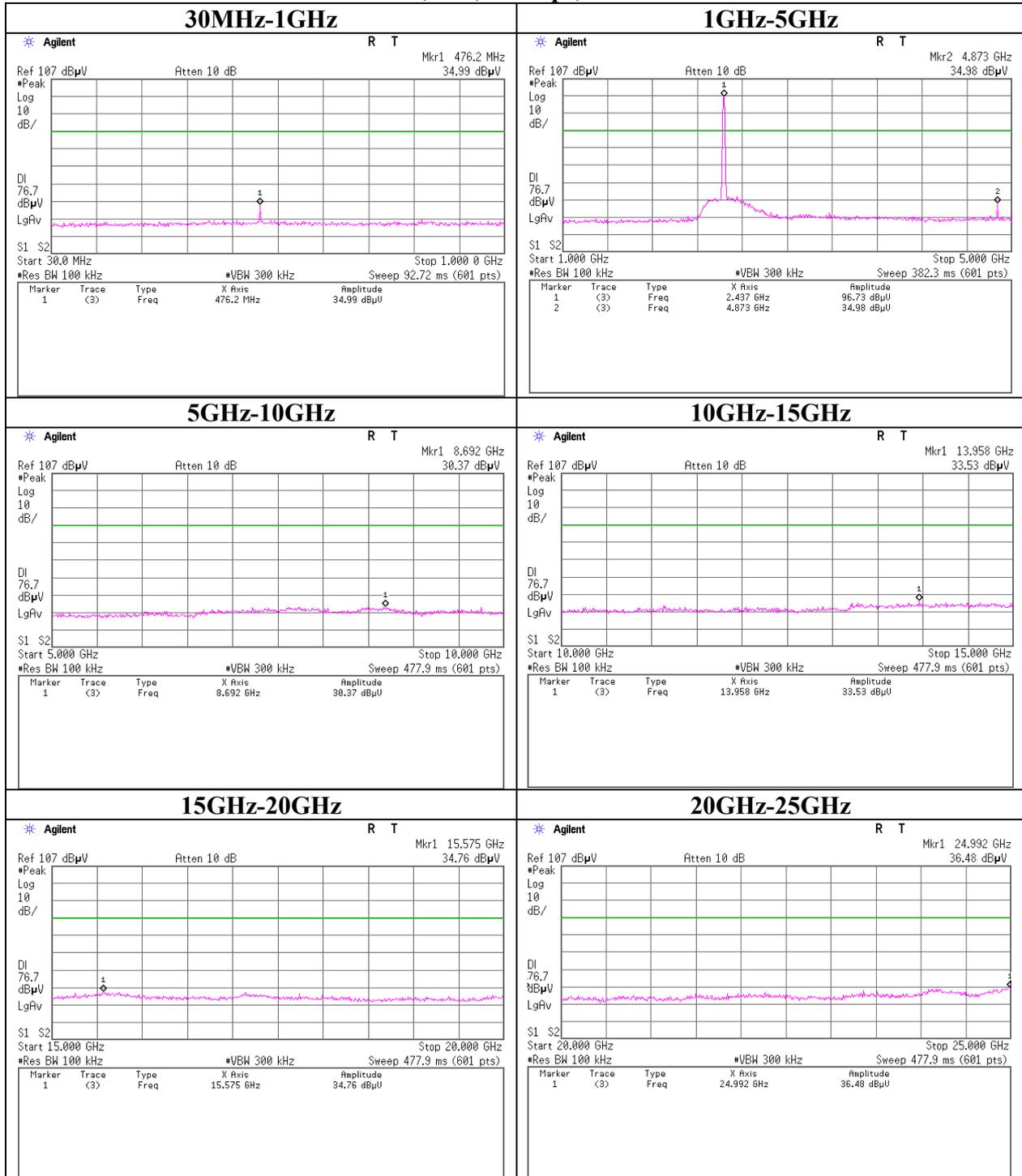
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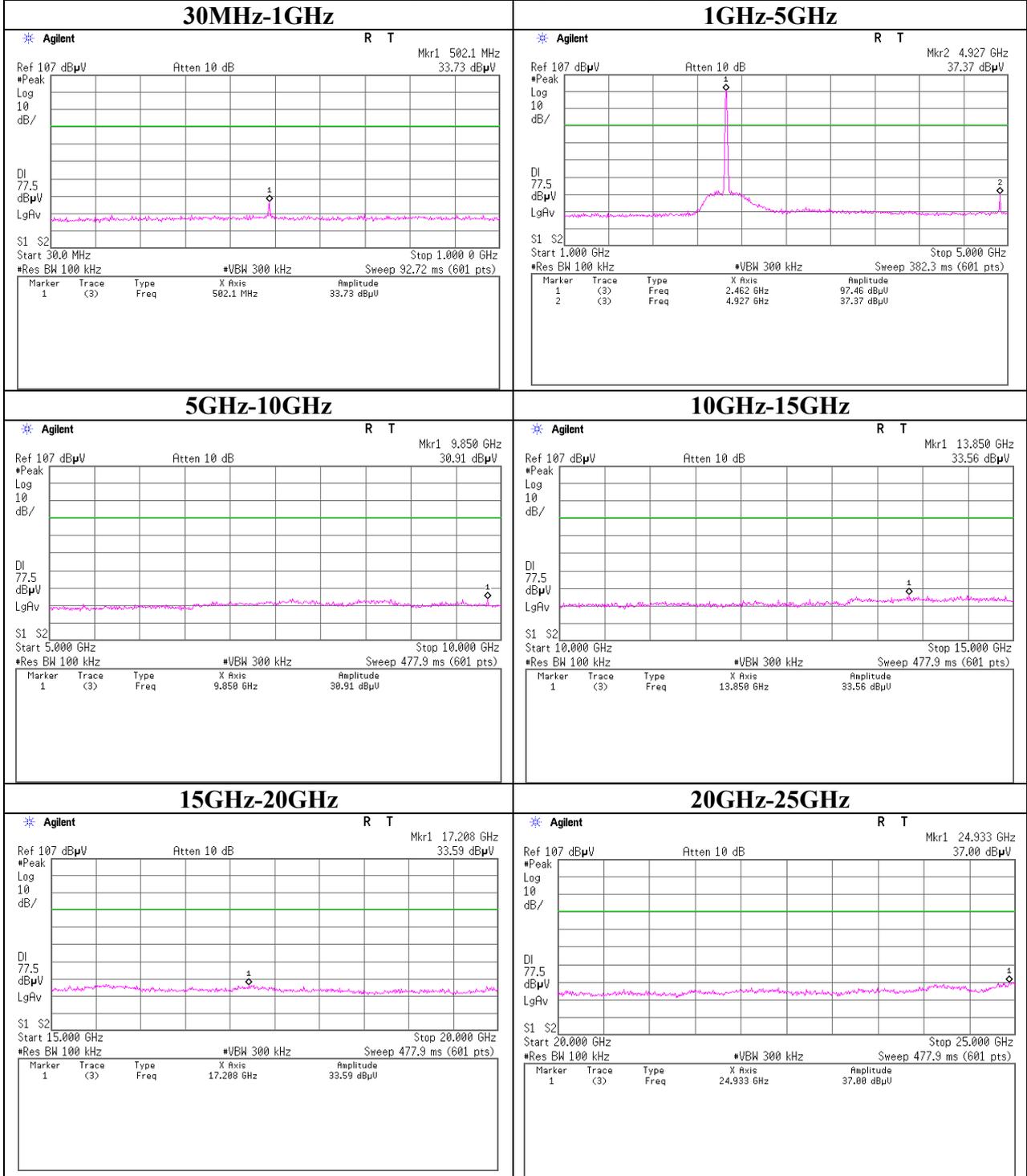
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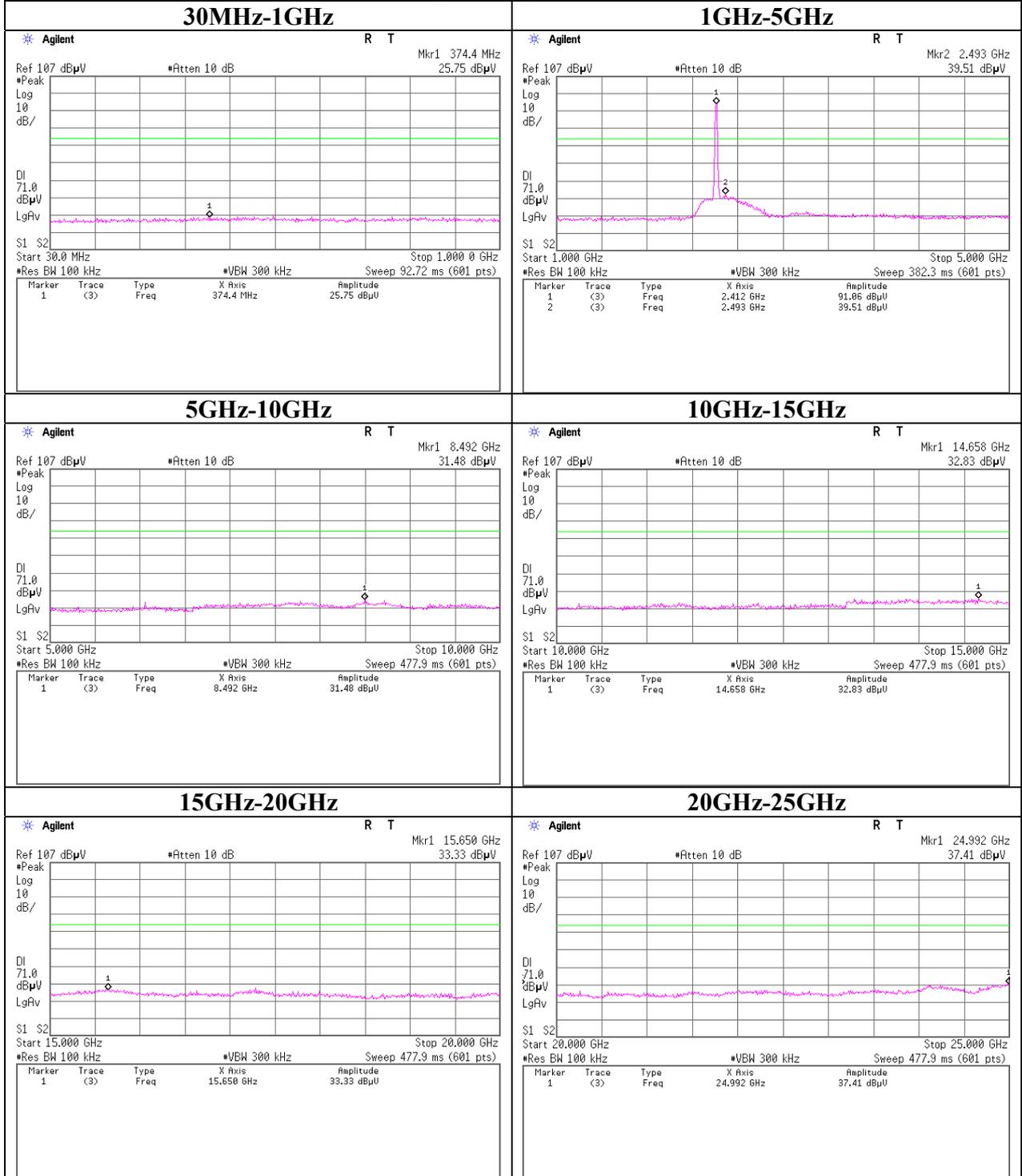
Conducted Spurious Emission
Tx, 11b, 11Mbps, Ch: Mid



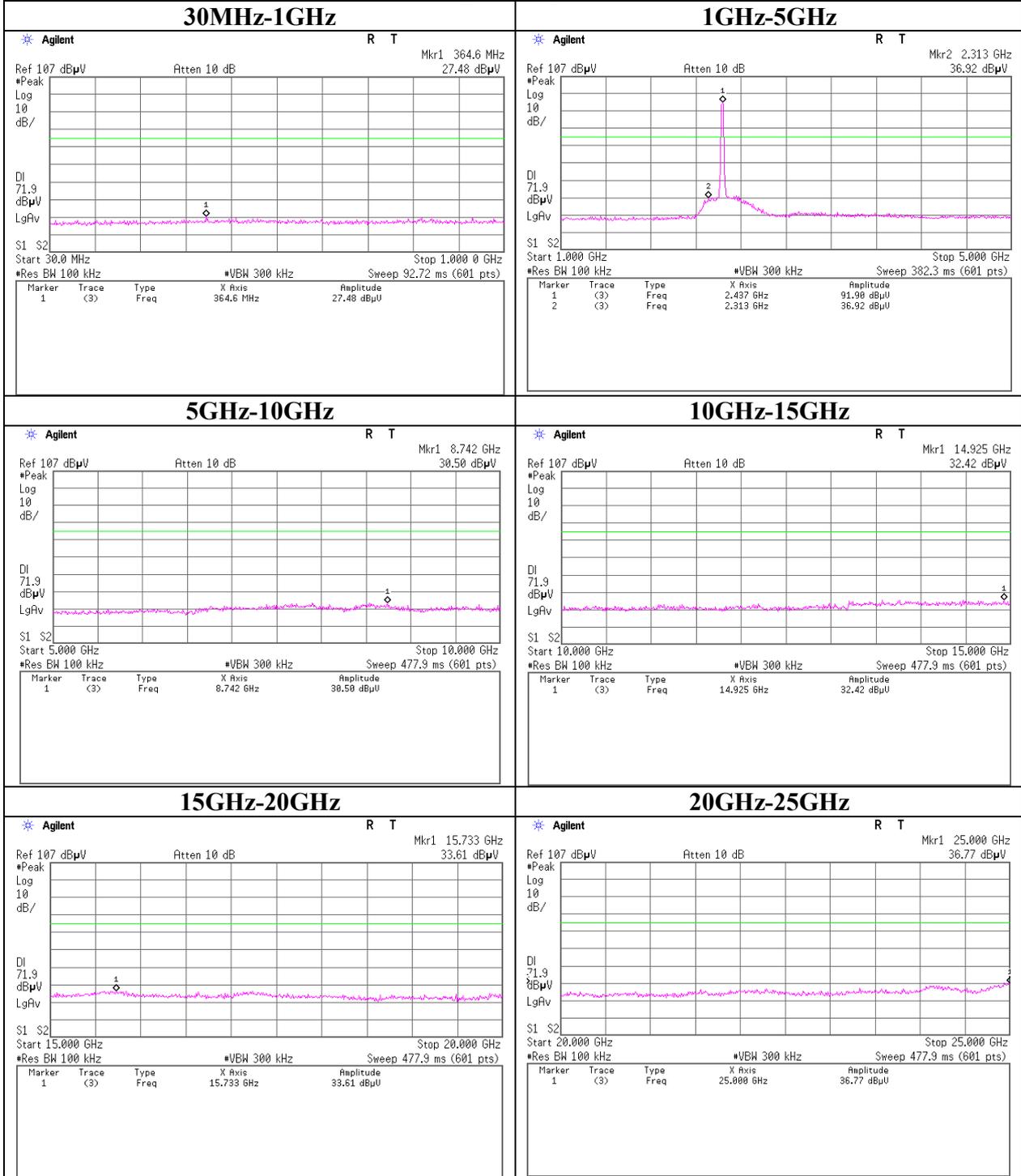
Conducted Spurious Emission
Tx, 11b, 11Mbps, Ch: High



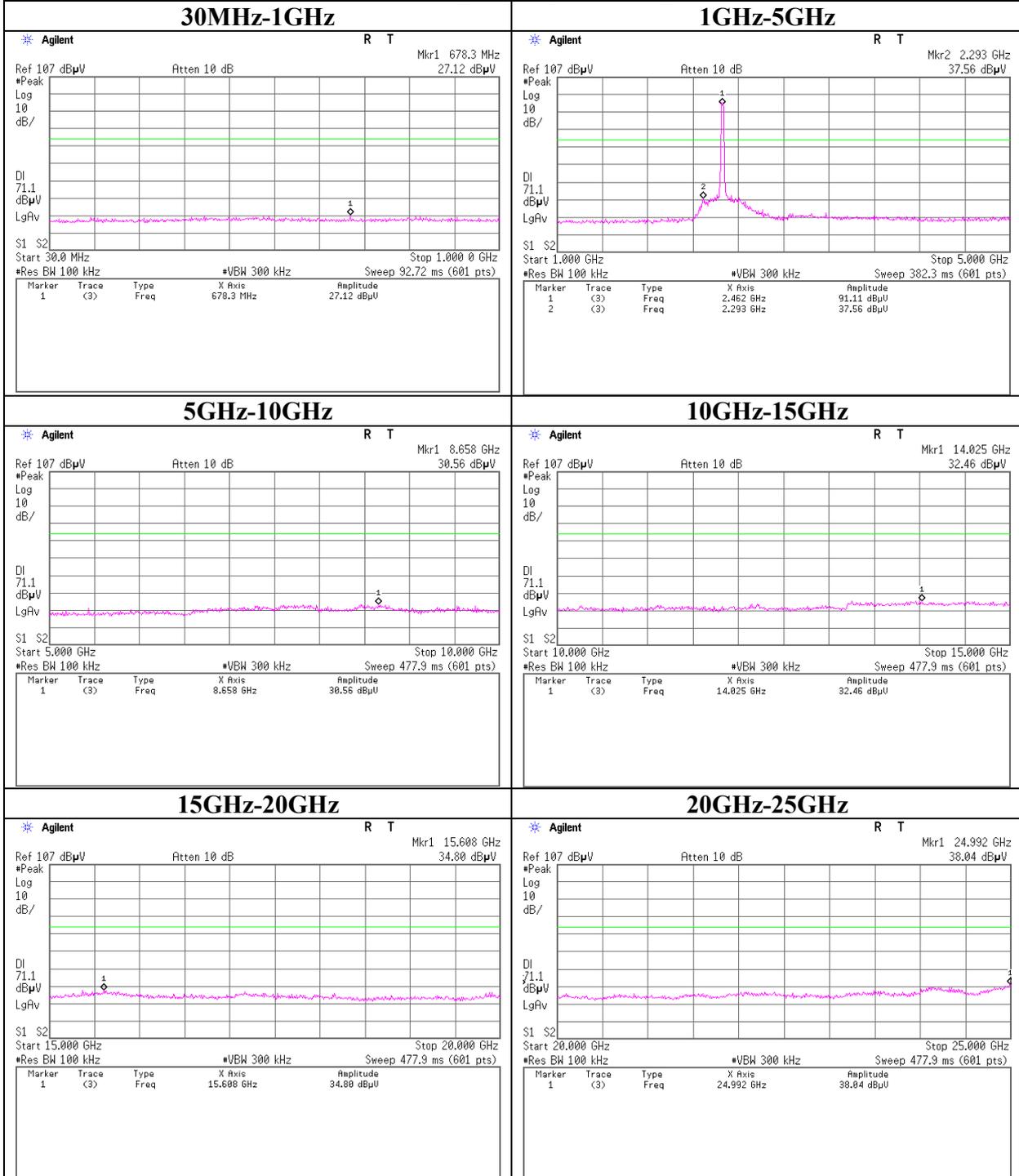
Conducted Spurious Emission
Tx, 11g, 36Mbps, Ch: Low



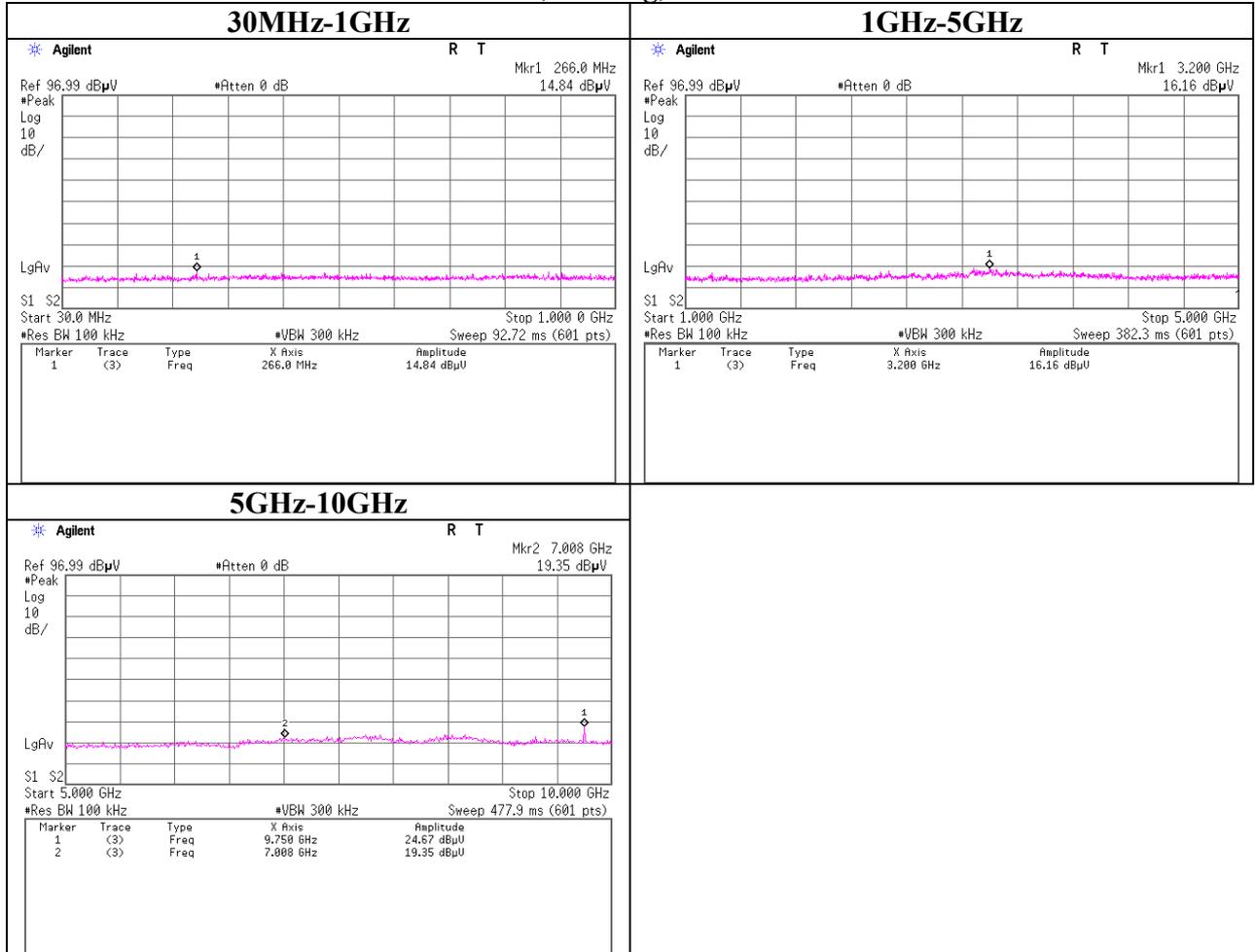
Conducted Spurious Emission
Tx, 11g, 36Mbps, Ch: Mid



Conducted Spurious Emission
Tx, 11g, 36Mbps, Ch: High

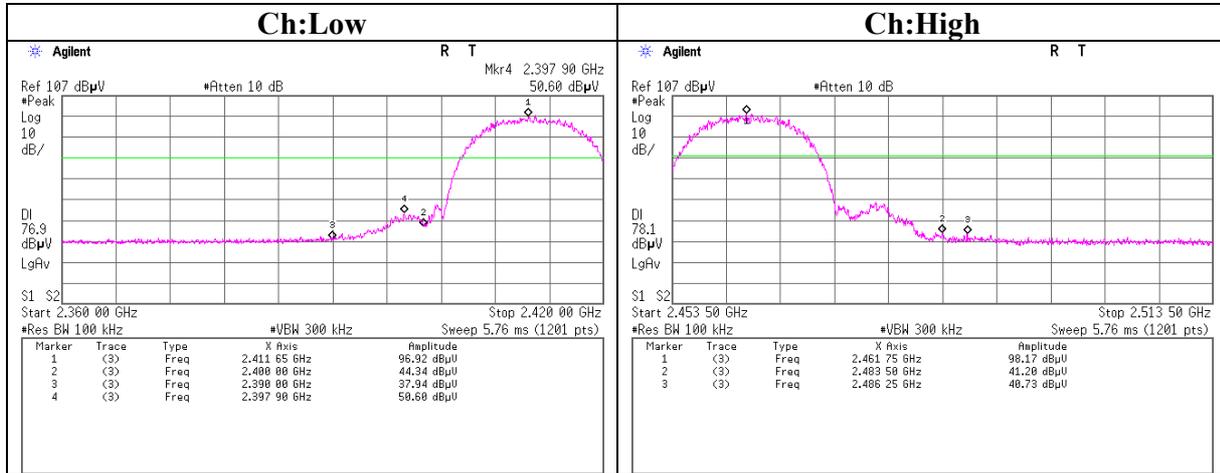


Conducted Spurious Emission
Rx, 11b/11g, Ch: Mid

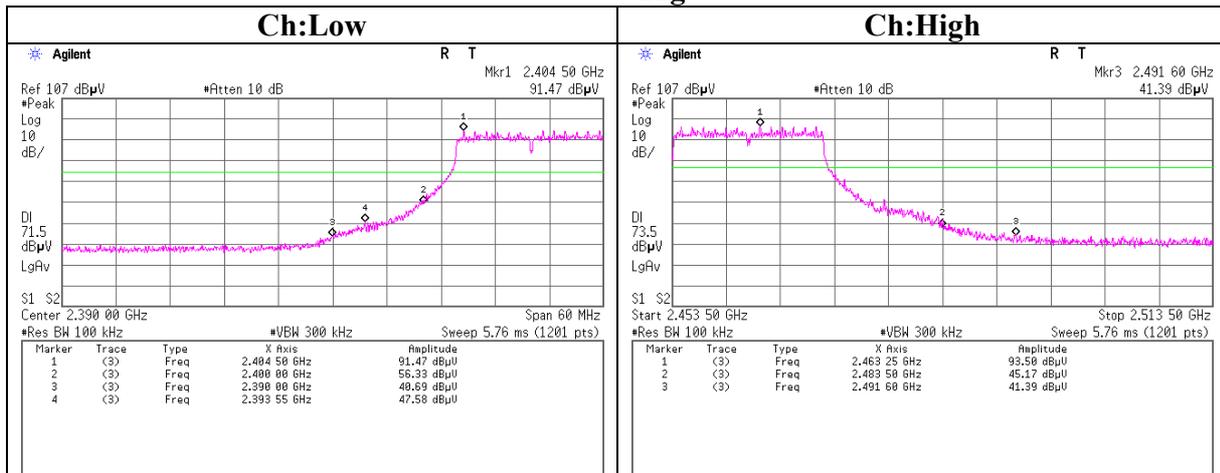


Conducted emission Band Edge compliance

11b



11g



Power Density

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

Company : Sony Corporation
Equipment : Digital Photo Frame
Model No. : VGF-CP1
Serial No. : 1000009
Power : AC120V/60Hz (DC 6V)
Mode : Tx, 11b, 11Mbps
 : Tx, 11g, 36Mbps

Regulation : FCC15.247(e)/RSS-210A8.2(b)
Test distance : -
Date : 04/16/2008
Temperature : 24 deg. C
Humidity : 35 %
Engineer : Hisayoshi Sato

11b, 11Mbps

Ch	Freq. [MHz]	Reading [dBm]	Cable [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2411.6	-12.35	2.7	10.1	0.4	8.0	7.6
Mid	2437.3	-10.98	2.7	10.1	1.8	8.0	6.2
High	2461.6	-12.92	2.7	10.1	-0.1	8.0	8.1

Sample Calculation:

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

11g, 36Mbps

Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2412.3	-33.27	2.7	10.1	-20.5	8.0	28.5
Mid	2437.3	-33.27	2.7	10.1	-20.5	8.0	28.5
High	2462.0	-27.95	2.7	10.1	-15.1	8.0	23.1

Sample Calculation:

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

UL Japan, Inc.

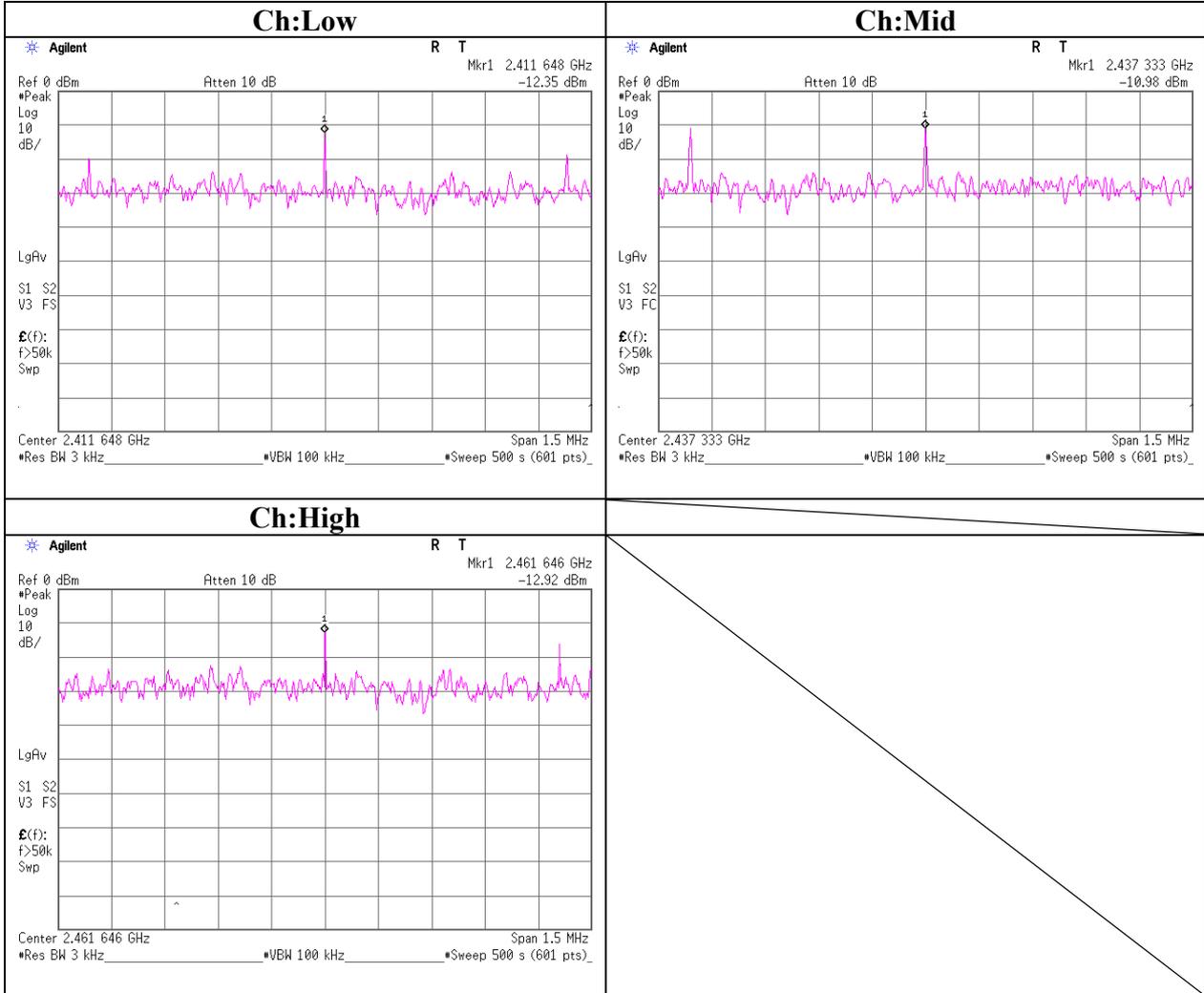
Head Office EMC Lab.

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

Telephone : +81 596 24 8116

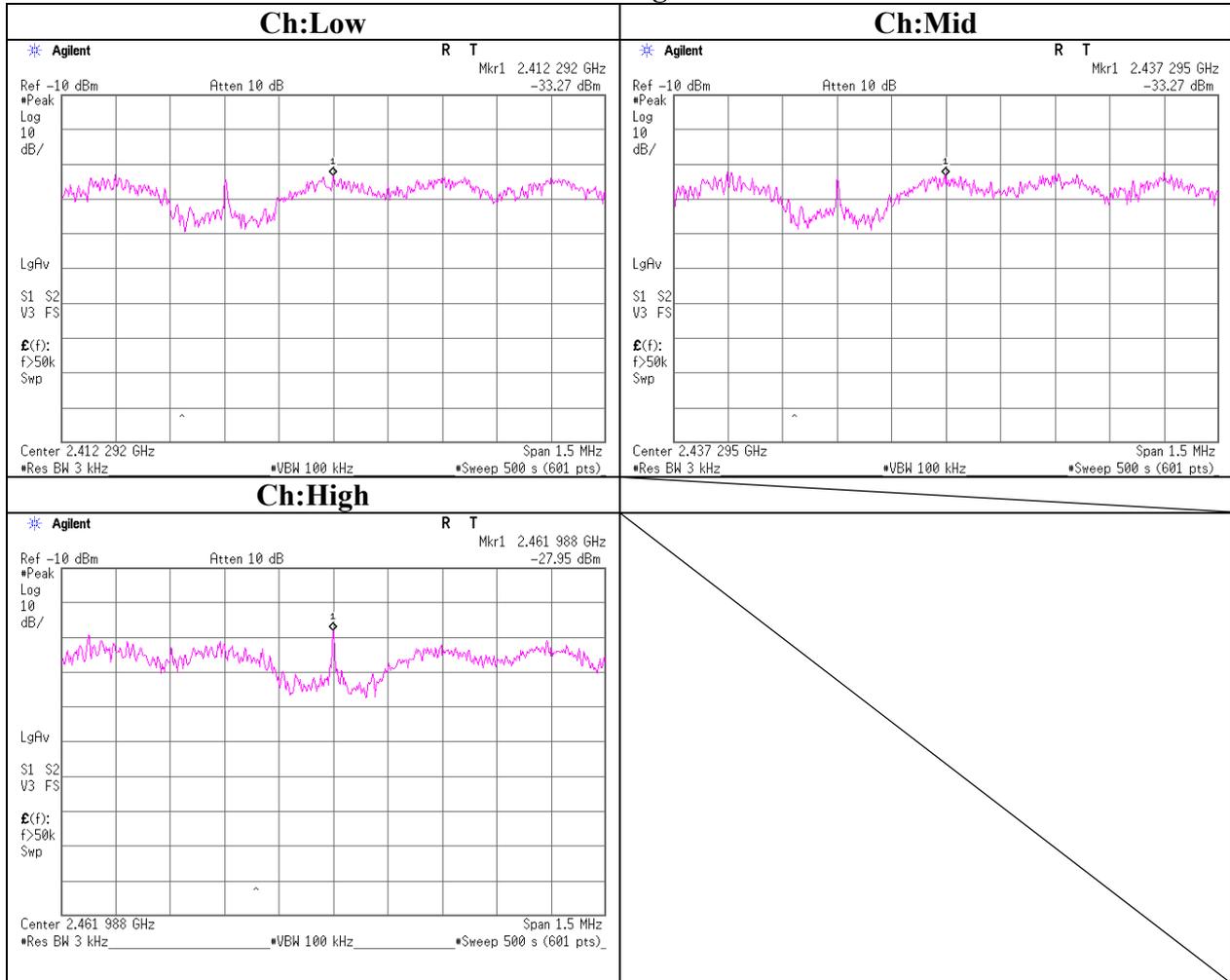
Facsimile : +81 596 24 8124

Power Density
11b

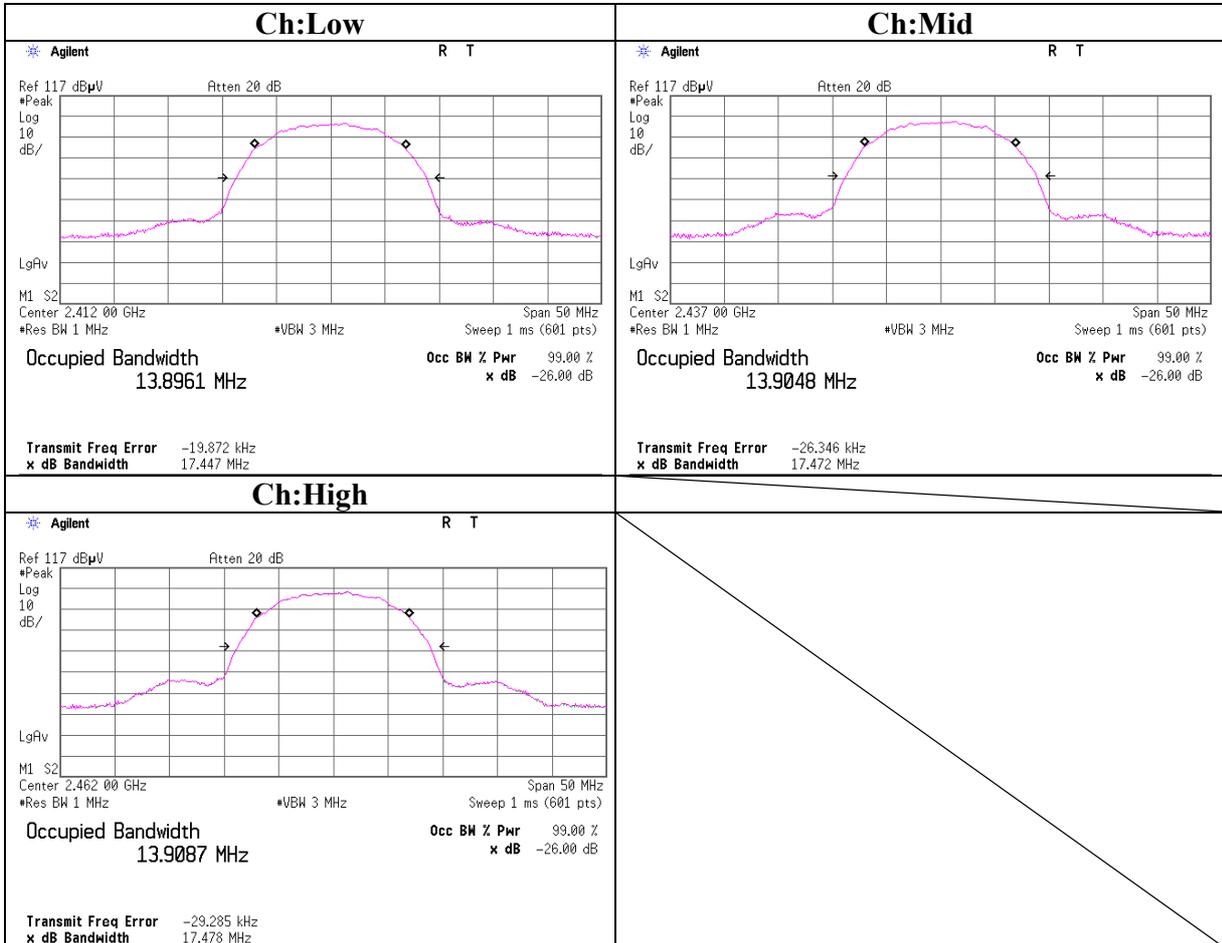


Power Density

11g

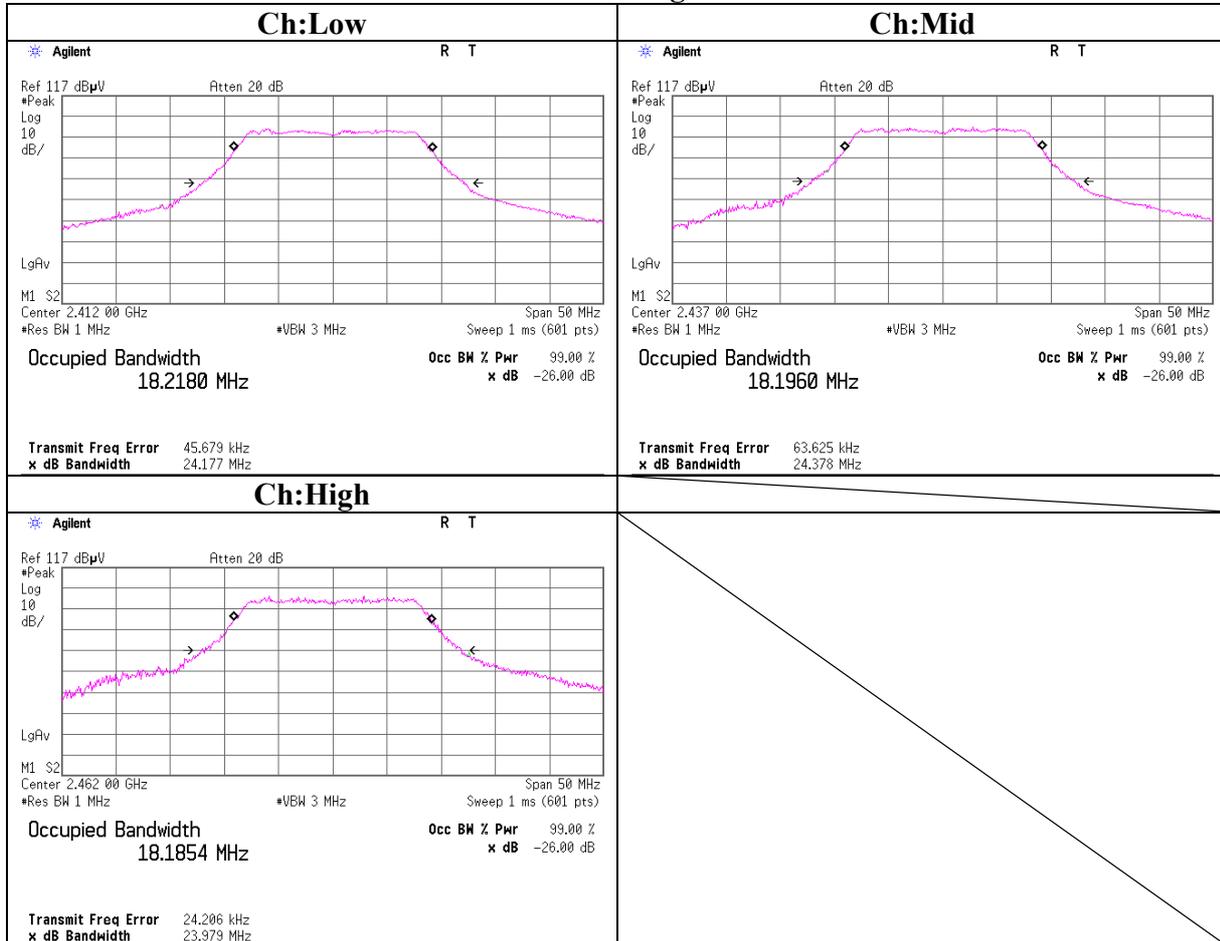


99% Occupied Bandwidth
11b



99% Occupied Bandwidth

11g



APPENDIX 3:Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-03	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE/CE	2008/03/25 * 12
MOS-13	Thermo-Hygrometer	Custom	CTH-180	RE/CE	2008/01/10 * 12
MJM-06	Measure	PROMART	SEN1955	RE/CE	-
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE/CE	-
MHA-20	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2007/04/14 * 12
MCC-56	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2008/03/12 * 12
MPA-11	MicroWave System Amplifier	Agilent	83017A	RE	2008/03/13 * 12
MHA-16	Horn Antenna 15-40GHz	Schwarzbeck	BBHA9170	RE	2007/04/06 * 12
MSA-04	Spectrum Analyzer	Agilent	E4448A	RE	2007/06/20 * 12
MHF-19	High Pass Filter 3.5-18.0GHz	TOKIMEC	TF323DCA	RE	2007/12/10 * 12
MCC-78	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2007/12/26 * 12
MPM-09	Power Meter	Anritsu	ML2495A	AT	2007/09/22 * 12
MPSE-12	Power sensor	Anritsu	MA2411B	AT	2007/09/22 * 12
MAT-20	Attenuator(10dB)(above1GHz)	HIROSE ELECTRIC CO.,LTD.	AT-110	AT	2008/01/09 * 12
MBA-03	Biconical Antenna	Schwarzbeck	BBA9106	RE	2008/01/12 * 12
MLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2008/01/12 * 12
MCC-51	Coaxial cable	UL Japan	-	RE/CE	2007/07/26 * 12
MAT-30	Attenuator(6dB)	TME	UFA-01	RE	2008/03/10 * 12
MPA-13	Pre Amplifier	SONOMA INSTRUMENT	310	RE	2008/03/06 * 12
MTR-07	Test Receiver	Rohde & Schwarz	ESCI	CE	2007/09/14 * 12
MSA-09	Spectrum Analyzer	Advantest	R3273	CE	2007/12/21 * 12
MLS-07	LISN(AMN)	Schwarzbeck	NSLK8127	CE (EUT)	2008/02/20 * 12
MOS-14	Thermo-Hygrometer	Custom	CTH-180	AT	2008/01/10 * 12
MSA-04	Spectrum Analyzer	Agilent	E4448A	AT	2007/06/20 * 12
MAT-23	Attenuator(10dB) DC-18GHz	Orient Microwave	BX10-0476-00	AT	2008/03/05 * 12
MCC-67	Microwave Cable 1G-40GHz	Schner	SUCOFLEX102	AT	2008/04/04 * 12

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Test report No. : 28IE0011-HO-01-A-R1
Page : 56 of 56
Issued date : May 16, 2008
Revised date : July 18, 2008
FCC ID : AK8VGFCP1

The expiration date of the calibration is the end of the expired month.
All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

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

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