

APPENDIX 2: Data of EMI test

Carrier Frequency Separation

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

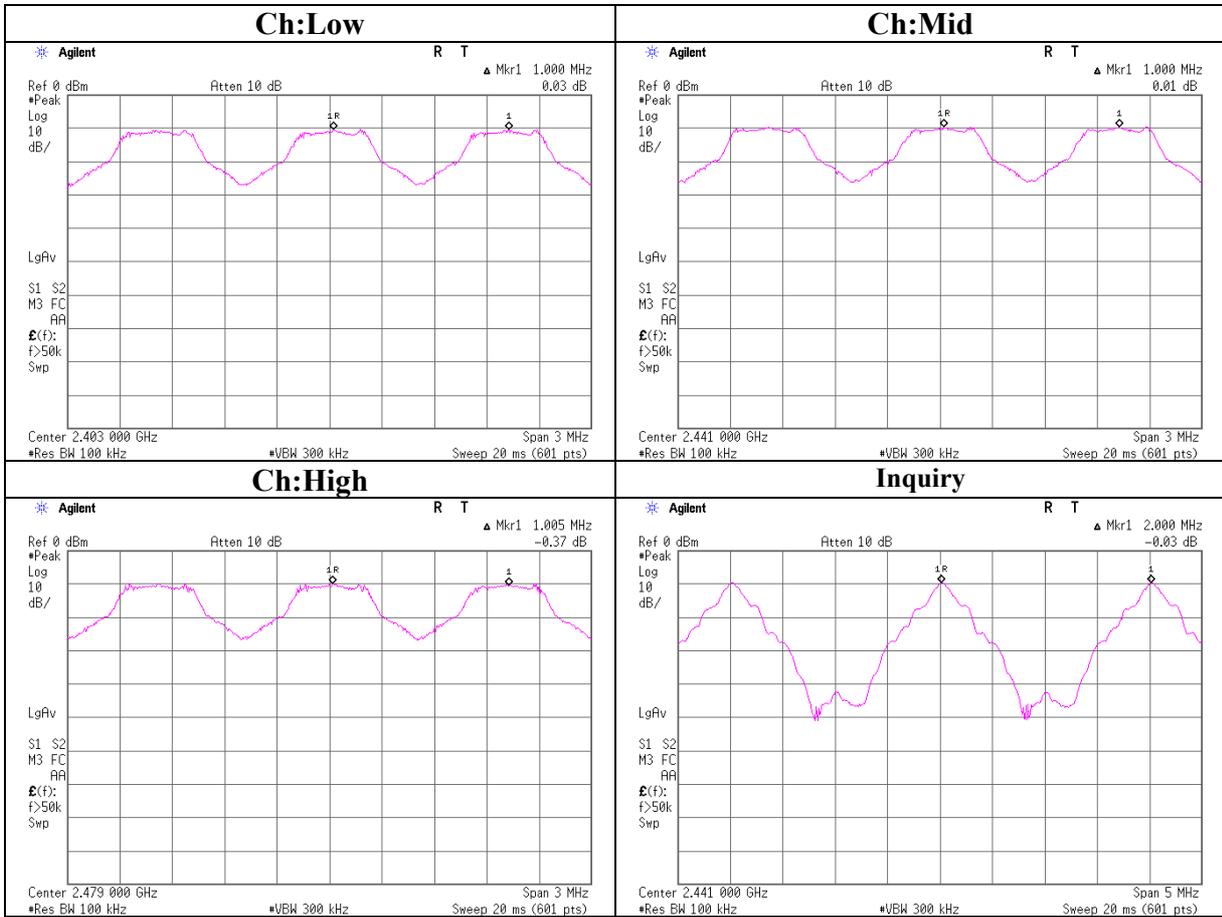
COMPANY : Sony Computer Entertainment Inc. REGULATION : FCC15.247(a)(1)/RSS-210A8.1(b)
EQUIPMENT : WIRELESS CONTROLLER TEST DISTANCE : -
MODEL : CECHZC2U DATE : 10/09/2007
S/N : 1 TEMPERATURE : 25deg.C
POWER : DC5V (USB Bus Power) HUMIDITY : 62%
MODE : Tx(Hopping on)/Inquiry ENGINEER : Takumi Shimada

DH5			
Ch	Freq. [MHz]	Channel separation [MHz]	Limit
Low	2402.0	1.000	>two-thirds of the 0.945[MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)
Mid	2441.0	1.000	>two-thirds of the 0.950[MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)
High	2480.0	1.005	>two-thirds of the 0.945[MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)
Inquiry	2441.0	2.000	>two-thirds of the 0.820[MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)

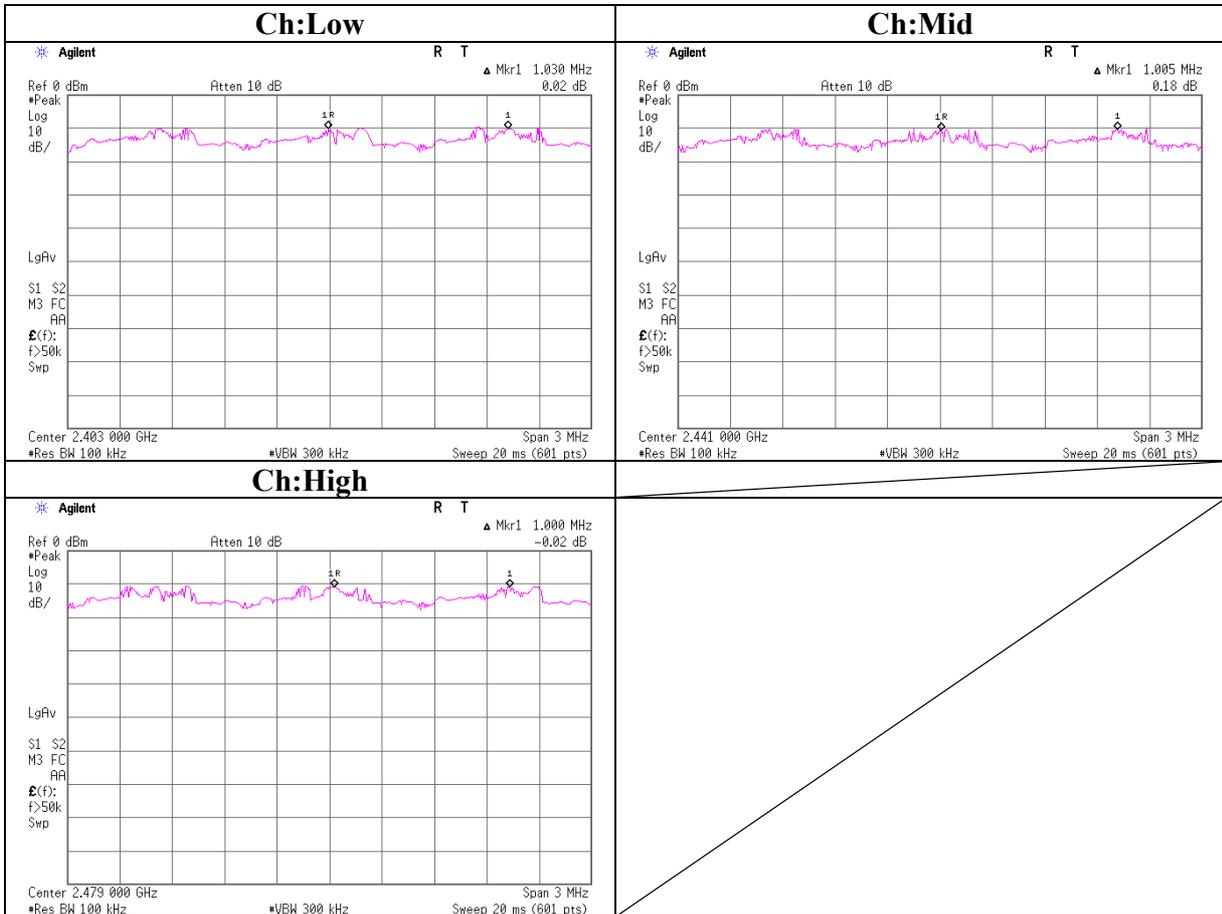
3DH5			
Ch	Freq. [MHz]	Channel separation [MHz]	Limit
Low	2402.0	1.030	>two-thirds of the 1.290[MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)
Mid	2441.0	1.005	>two-thirds of the 1.285[MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)
High	2480.0	1.000	>two-thirds of the 1.285[MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)

UL Japan, Inc.
Head Office EMC Lab.
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN
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Carrier Frequency Separation



Carrier Frequency Separation (EDR)



20dB Bandwidth

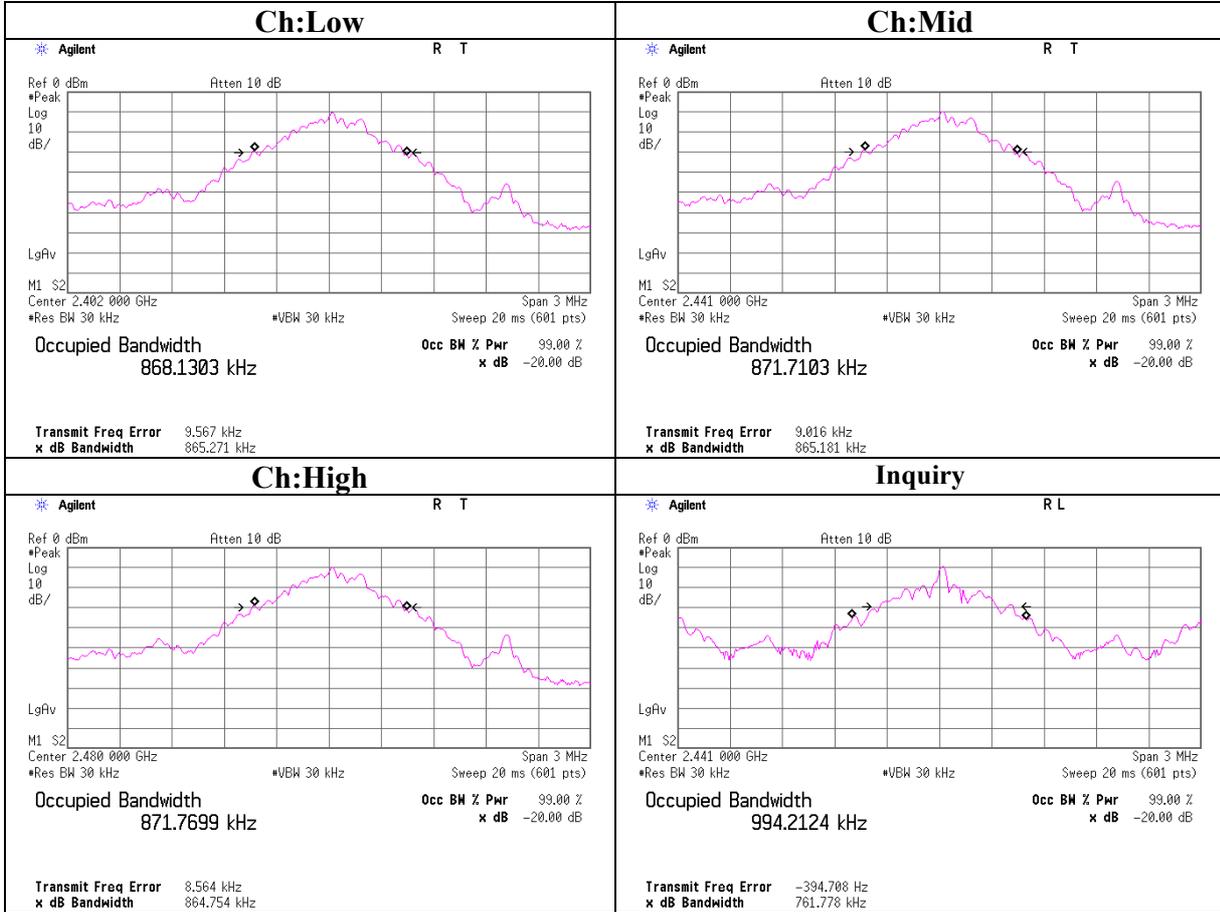
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Head Office EMC Lab. No.7 Shielded Room

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S/N : 1 TEMPERATURE : 25deg.C
POWER : DC5V (USB Bus Power) HUMIDITY : 62%
MODE : Tx (Hopping off) /Inquiry ENGINEER : Takumi Shimada

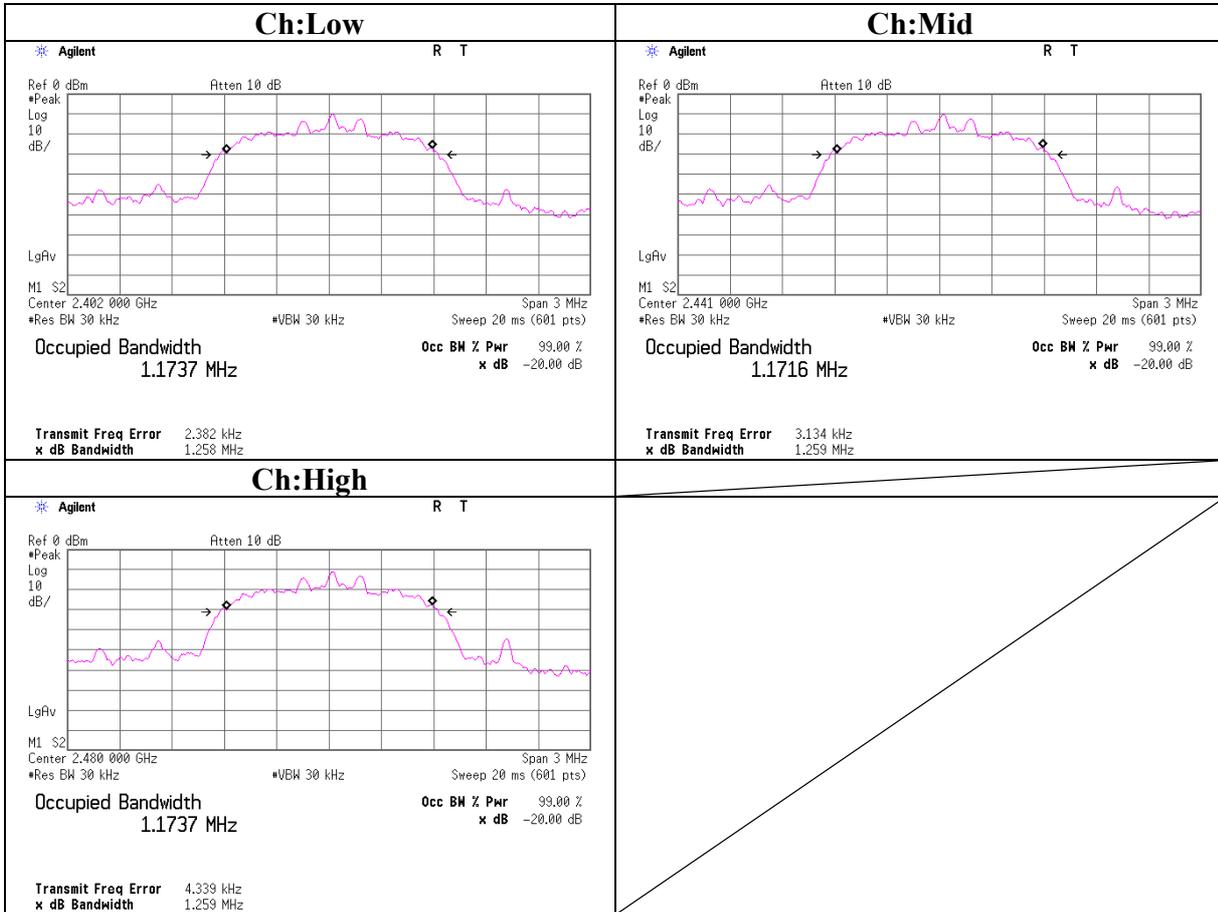
DH5			
Ch	Freq.	20dB Bandwidth	Limit
	[MHz]	[MHz]	[MHz]
Low	2402.0	0.865	-
Mid	2441.0	0.865	-
High	2480.0	0.865	-
Inquiry	2441.0	0.762	-

3DH5			
Ch	Freq.	20dB Bandwidth	Limit
	[MHz]	[MHz]	[MHz]
Low	2402.0	1.258	-
Mid	2441.0	1.259	-
High	2480.0	1.259	-

20dB Bandwidth



20dB Bandwidth (EDR)



Number of Hopping Frequency

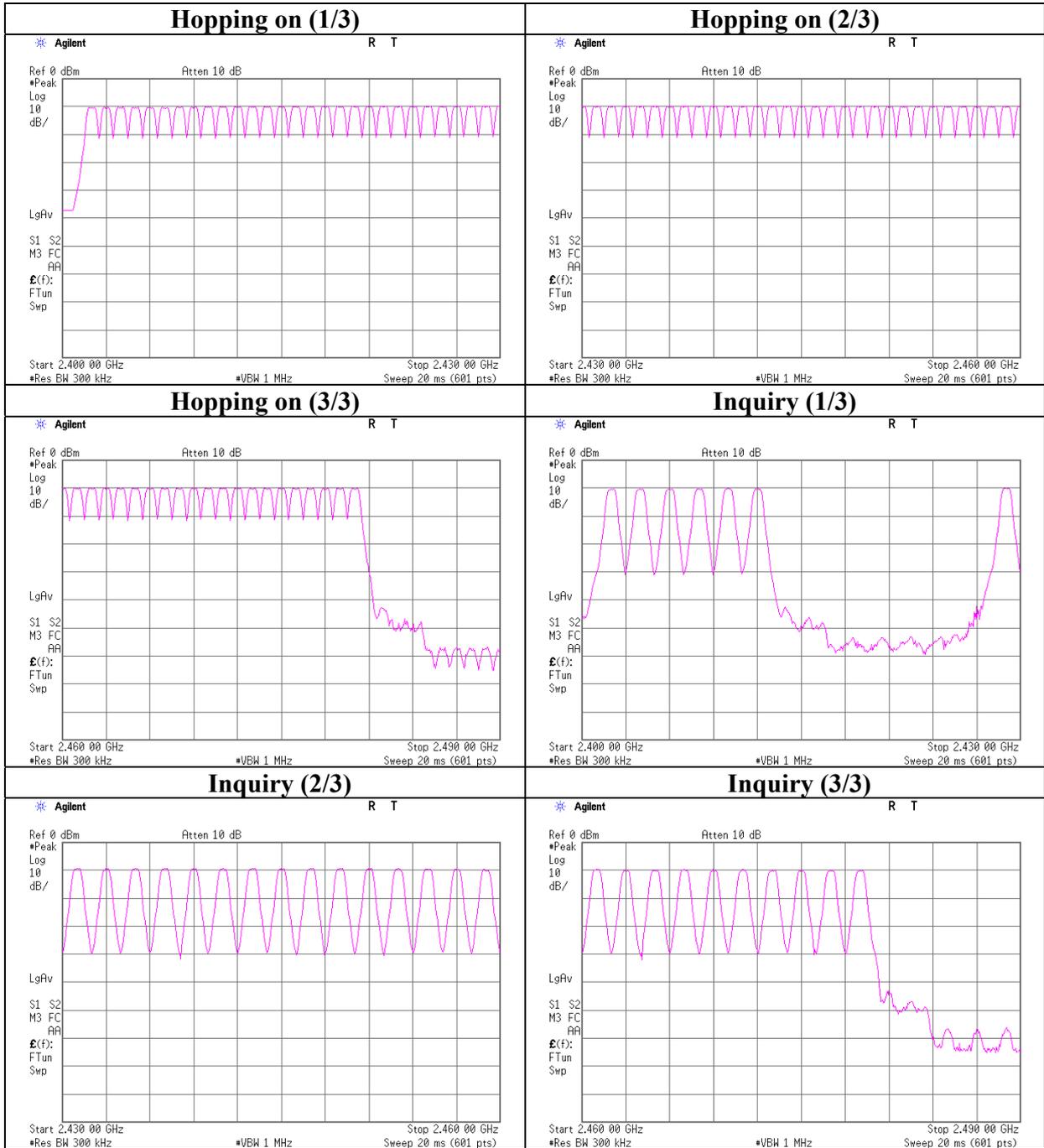
UL Japan, Inc.
Head Office EMC Lab. No.7 Shielded Room

COMPANY : Sony Computer Entertainment Inc. REGULATION : FCC15.247(a)(1)(iii)/RSS-210A8.1(d)
EQUIPMENT : WIRELESS CONTROLLER TEST DISTANCE : -
MODEL : CECHZC2U DATE : 10/09/2007
S/ N : 1 TEMPERATURE : 25deg.C
POWER : DC5V (USB Bus Power) HUMIDITY : 62%
MODE : Tx (Hopping on) /Inquiry ENGINEER : Takumi Shimada

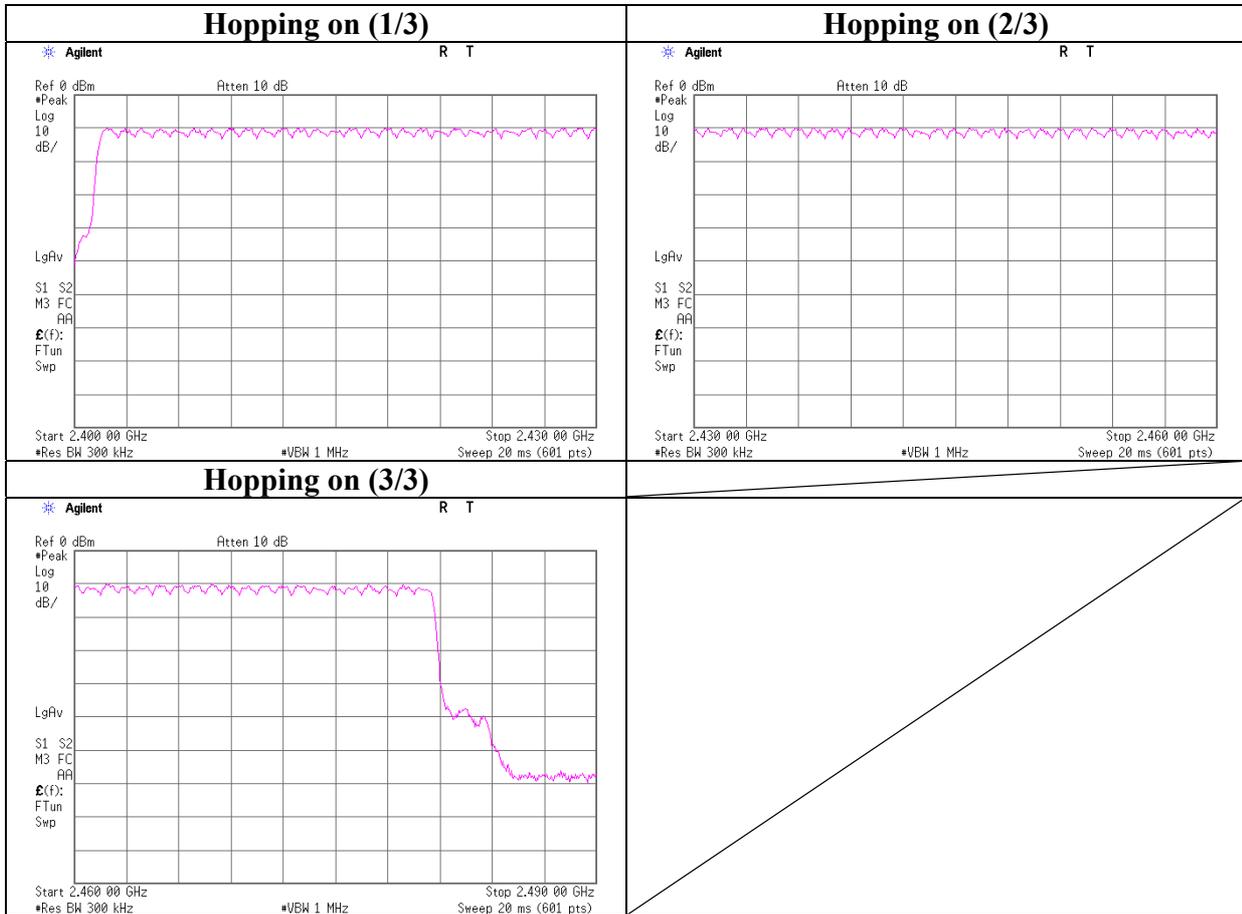
Mode	Number of channel [time]	Limit [time]
DH5	79	≥ 15
3DH5	79	≥ 15

Mode	Number of channel [time]	Limit [time]
Inquiry	32	≥ 15

Number of Hopping Frequency



Number of Hopping Frequency (EDR)



Dwell time

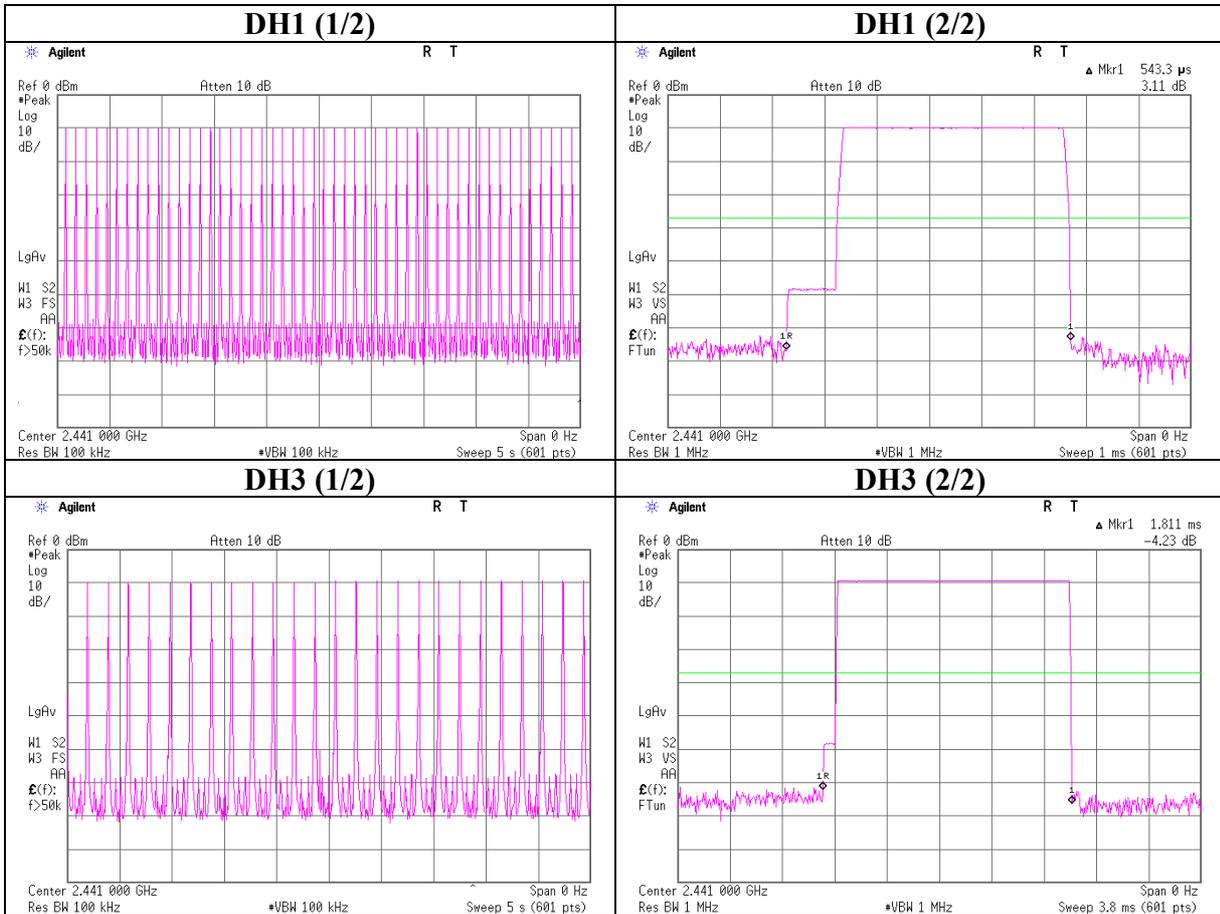
UL Japan, Inc.
Head Office EMC Lab. No.7 Shielded Room

COMPANY : Sony Computer Entertainment Inc.	REGULATION : FCC15.247(a)(1)(iii)/RSS-210A8.1(d)
EQUIPMENT : WIRELESS CONTROLLER	TEST DISTANCE : -
MODEL : CECHZC2U	DATE : 10/09/2007
S/N : 1	TEMPERATURE : 25deg.C
POWER : DC5V (USB Bus Power)	HUMIDITY : 62%
MODE : Tx (Hopping on) /Inquiry	ENGINEER : Takumi Shimada

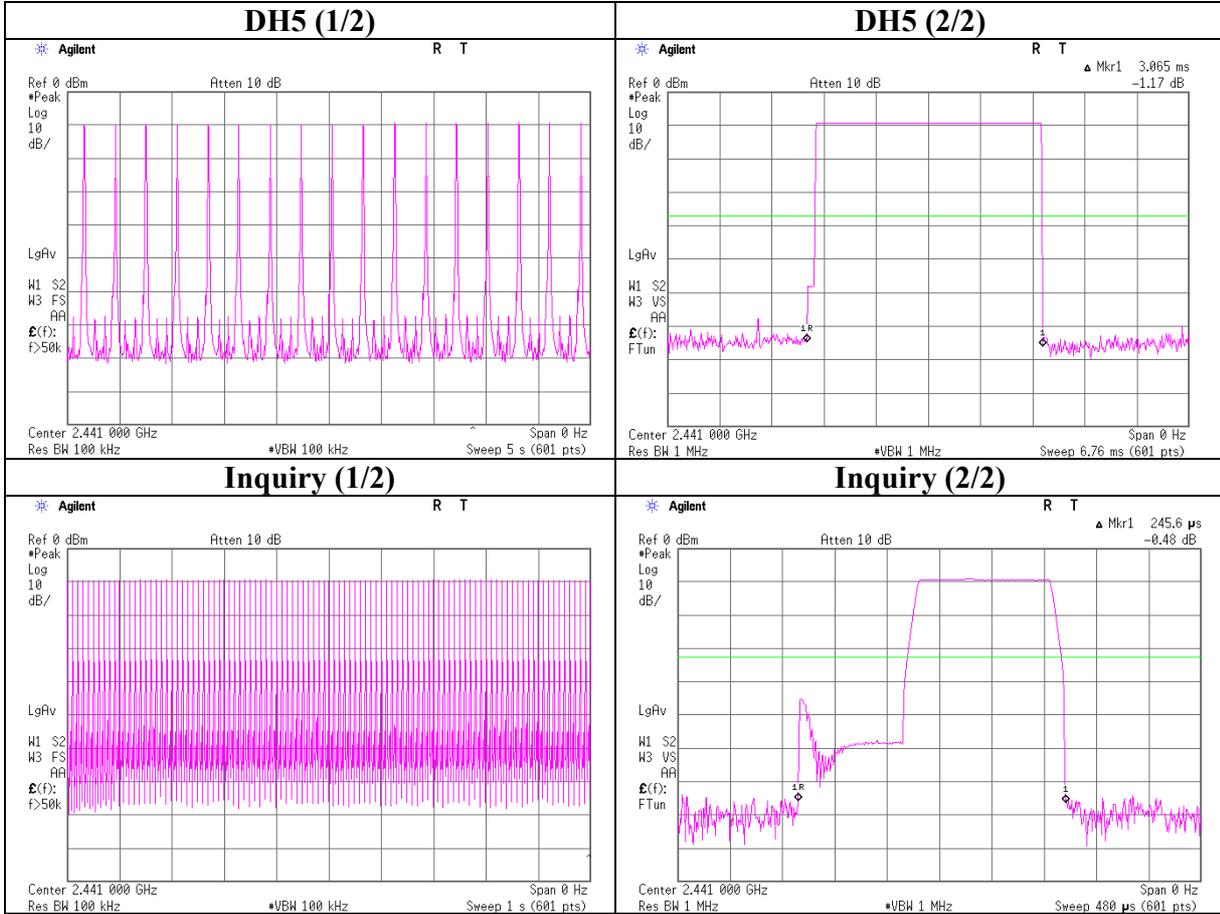
Mode	Number of transmission in a 31.6(79 Hopping x 0.4) / 12.8(32 Hopping x 0.4)second period	Length of transmission time [msec]	Result [msec]	Limit [msec]
DH1	51 times / 5 sec. x 31.6 sec. = 323 times	0.543	175	400
DH3	25 times / 5 sec. x 31.6 sec. = 158 times	1.811	286	400
DH5	17 times / 5 sec. x 31.6 sec. = 108 times	3.065	331	400
Inquiry	100 times / 1 sec. x 12.8 sec. = 1280 times	0.246	314	400

Mode	Number of transmission in a 31.6(79 Hopping x 0.4) / 12.8(32 Hopping x 0.4)second period	Length of transmission time [msec]	Result [msec]	Limit [msec]
3DH1	51 times / 5 sec. x 31.6 sec. = 323 times	0.560	181	400
3DH3	25 times / 5 sec. x 31.6 sec. = 158 times	1.816	287	400
3DH5	17 times / 5 sec. x 31.6 sec. = 108 times	3.103	335	400

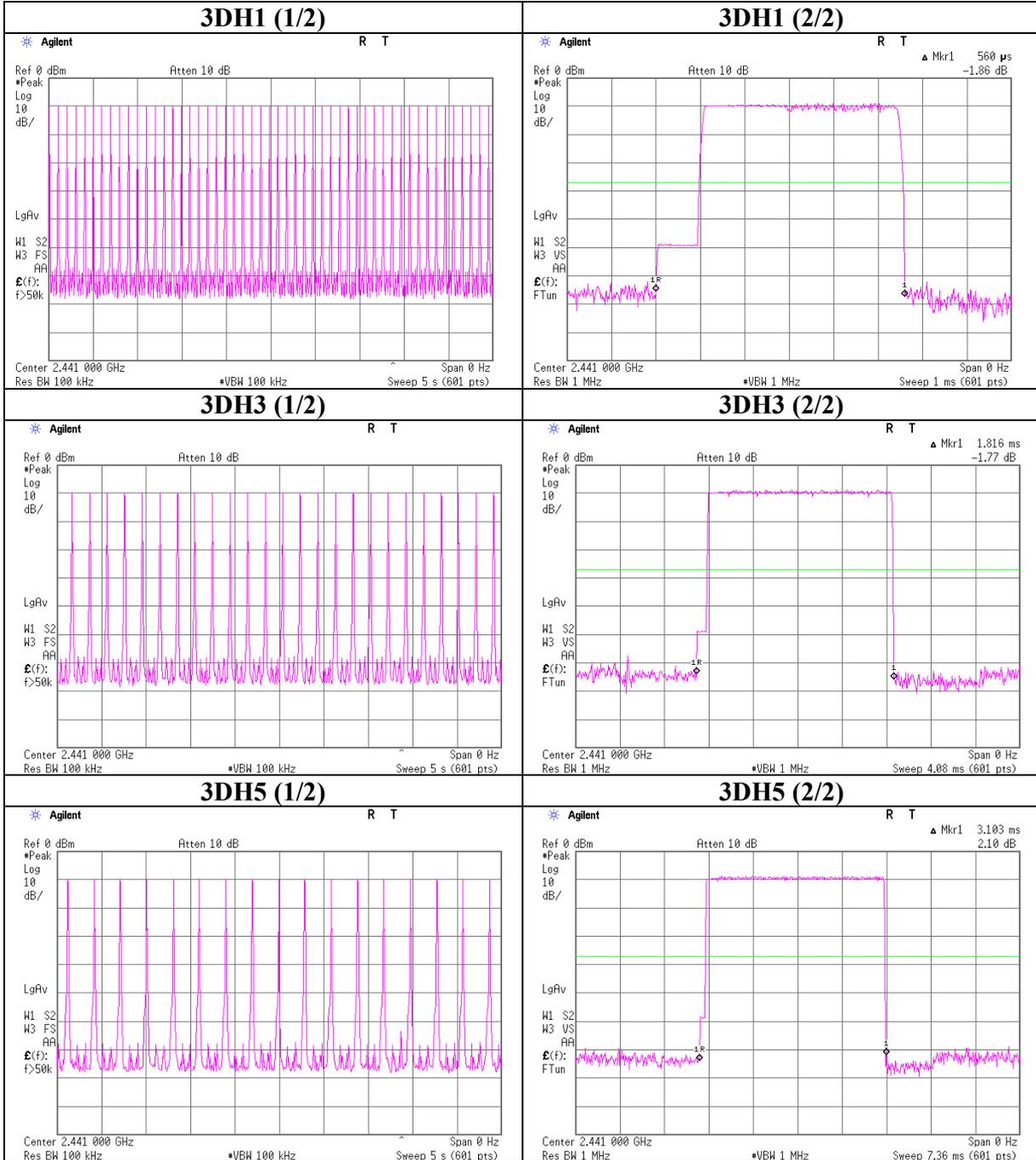
Dwell time



Dwell time



Dwell time (EDR)



Maximum Peak Output Power

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

COMPANY : Sony Computer Entertainment Inc.	REGULATION : FCC15.247(b)(1)/RSS-210 A8.4(2)
EQUIPMENT : WIRELESS CONTROLLER	TEST DISTANCE : -
MODEL : CECHZC2U	DATE : 10/09/2007
S/N : 1	TEMPERATURE : 25deg.C
MODE : Tx(Hopping Off)/Inquiry	HUMIDITY : 62%
	ENGINEER : Takumi Shimada

DH5									
Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2402.0	-9.63	1.16	10.02	1.55	1.43	20.97	125	19.42
Mid	2441.0	-9.21	1.17	10.02	1.98	1.58	20.97	125	18.99
High	2480.0	-9.39	1.18	10.02	1.81	1.52	20.97	125	19.16
Inquiry	2441.0	-9.09	1.17	10.02	2.10	1.62	20.97	125	18.87

2DH5									
Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2402.0	-8.30	1.16	10.02	2.88	1.94	20.97	125	18.09
Mid	2441.0	-8.27	1.17	10.02	2.92	1.96	20.97	125	18.05
High	2480.0	-8.75	1.18	10.02	2.45	1.76	20.97	125	18.52

3DH5									
Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2402.0	-8.15	1.16	10.02	3.03	2.01	20.97	125	17.94
Mid	2441.0	-8.13	1.17	10.02	3.06	2.02	20.97	125	17.91
High	2480.0	-8.60	1.18	10.02	2.60	1.82	20.97	125	18.37

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(DH5), Ch. Low

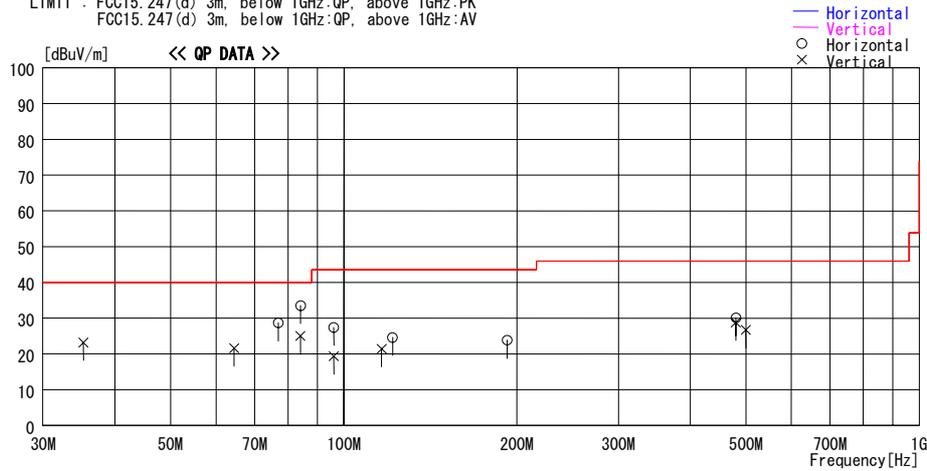
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/10/02

Company : Sony Computer Entertainment Inc. Report No. : 28BE0223-HO-01
Kind of EUT : WIRELESS CONTROLLER Power : DC5V (USB Bus Power)
Model No. : CECHZC2U Temp./Humi. : 25deg. C / 66%
Serial No. : 3 Operator : Takumi Shimada

Mode / Remarks : BT Tx 2402MHz DH5 Hor:X-axis Ver:Z-axis

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]	Comment
			Factor [dB/m]	Loss& Gain [dB]							
35.297	28.9	QP	16.3	-22.0	23.2	0	100	Vert.	40.0	16.8	
64.516	35.6	QP	7.6	-21.6	21.6	0	100	Vert.	40.0	18.4	
76.884	43.4	QP	6.8	-21.5	28.7	279	239	Hori.	40.0	11.3	
84.088	47.9	QP	7.0	-21.4	33.5	276	214	Hori.	40.0	6.5	
84.088	39.4	QP	7.0	-21.4	25.0	133	100	Vert.	40.0	15.0	
96.101	31.5	QP	9.1	-21.2	19.4	131	100	Vert.	43.5	24.1	
96.101	39.5	QP	9.1	-21.2	27.4	279	320	Hori.	43.5	16.1	
116.317	30.1	QP	12.4	-21.1	21.4	0	100	Vert.	43.5	22.1	
121.517	32.7	QP	13.0	-21.0	24.7	268	141	Hori.	43.5	18.8	
192.202	26.8	QP	17.1	-20.0	23.9	156	100	Hori.	43.5	19.6	
480.080	31.2	QP	18.4	-19.5	30.1	222	100	Hori.	46.0	15.9	
480.080	29.9	QP	18.4	-19.5	28.8	191	203	Vert.	46.0	17.2	
499.838	27.7	QP	18.5	-19.5	26.7	191	100	Vert.	46.0	19.3	

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(DH5), Ch. Mid

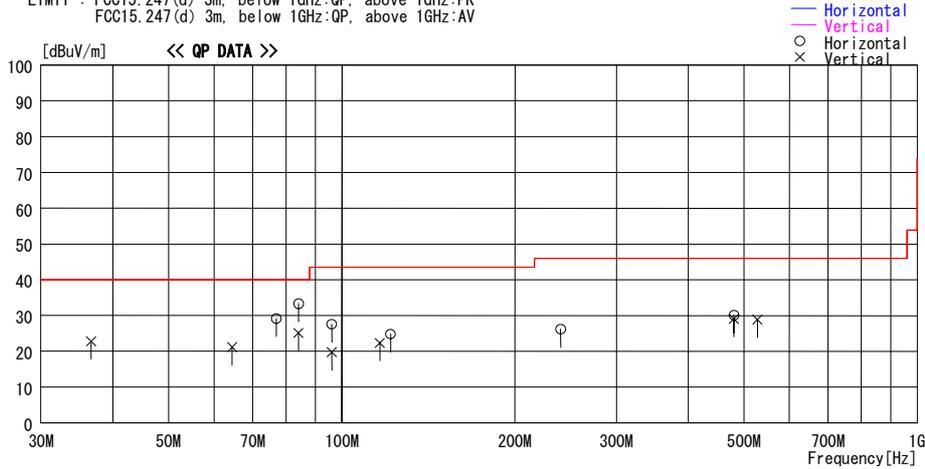
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/10/02

Company : Sony Computer Entertainment Inc. Report No. : 28BE0223-HO-01
Kind of EUT : WIRELESS CONTROLLER Power : DC5V (USB Bus Power)
Model No. : CECHZC2U Temp./Humi. : 25deg.C / 66%
Serial No. : 3 Operator : Takumi Shimada

Mode / Remarks : BT Tx 2441MHz DH5 Hor:X-axis Ver:Z-axis

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]	Comment
			Factor [dB/m]	Loss& Gain [dB]							
36.665	29.2	QP	15.6	-22.0	22.8	0	100	Vert.	40.0	17.2	
64.522	35.2	QP	7.6	-21.6	21.2	0	100	Vert.	40.0	18.8	
76.883	43.9	QP	6.8	-21.5	29.2	276	216	Hori.	40.0	10.8	
84.088	47.7	QP	7.0	-21.4	33.3	277	214	Hori.	40.0	6.7	
84.091	39.5	QP	7.0	-21.4	25.1	132	100	Vert.	40.0	14.9	
96.101	31.9	QP	9.1	-21.2	19.8	131	100	Vert.	43.5	23.7	
96.101	39.7	QP	9.1	-21.2	27.6	279	322	Hori.	43.5	15.9	
116.407	31.1	QP	12.4	-21.1	22.4	0	100	Vert.	43.5	21.1	
121.510	32.9	QP	13.0	-21.0	24.9	270	148	Hori.	43.5	18.6	
240.043	28.9	QP	16.8	-19.5	26.2	150	100	Hori.	46.0	19.8	
480.081	31.2	QP	18.4	-19.5	30.1	224	100	Hori.	46.0	15.9	
480.081	30.2	QP	18.4	-19.5	29.1	190	105	Vert.	46.0	16.9	
528.085	29.4	QP	18.8	-19.3	28.9	210	100	Vert.	46.0	17.1	

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(DH5), Ch. High

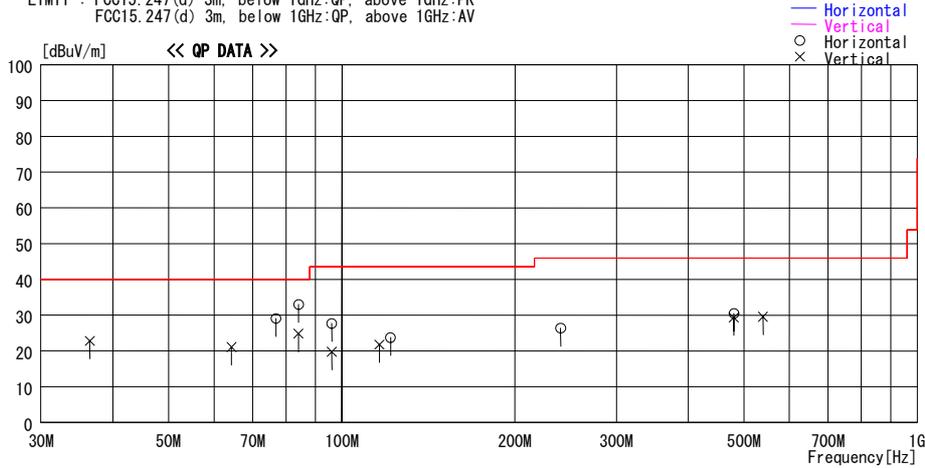
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Serial No. : 3 Operator : Takumi Shimada

Mode / Remarks : BT Tx 2480MHz DH5 Hor:X-axis Ver:Z-axis

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]	Comment
			Factor [dB/m]	Loss& Gain [dB]							
36.501	29.1	QP	15.7	-22.0	22.8	0	100	Vert.	40.0	17.2	
64.310	35.0	QP	7.7	-21.6	21.1	0	100	Vert.	40.0	18.9	
76.877	43.8	QP	6.8	-21.5	29.1	283	222	Hori.	40.0	10.9	
84.085	47.4	QP	7.0	-21.4	33.0	286	226	Hori.	40.0	7.0	
84.093	39.2	QP	7.0	-21.4	24.8	130	100	Vert.	40.0	15.2	
96.107	31.9	QP	9.1	-21.2	19.8	150	100	Vert.	43.5	23.7	
96.105	39.8	QP	9.1	-21.2	27.7	279	316	Hori.	43.5	15.8	
116.316	30.5	QP	12.4	-21.1	21.8	0	100	Vert.	43.5	21.7	
121.548	31.7	QP	13.0	-21.0	23.7	273	174	Hori.	43.5	19.8	
240.044	29.1	QP	16.8	-19.5	26.4	306	123	Hori.	46.0	19.6	
480.078	31.6	QP	18.4	-19.5	30.5	225	100	Hori.	46.0	15.5	
480.078	30.5	QP	18.4	-19.5	29.4	183	207	Vert.	46.0	16.6	
539.645	30.0	QP	18.9	-19.3	29.6	201	100	Vert.	46.0	16.4	

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)

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Radiated Spurious Emission (below 1GHz)
Tx(3DH5), Ch. Low

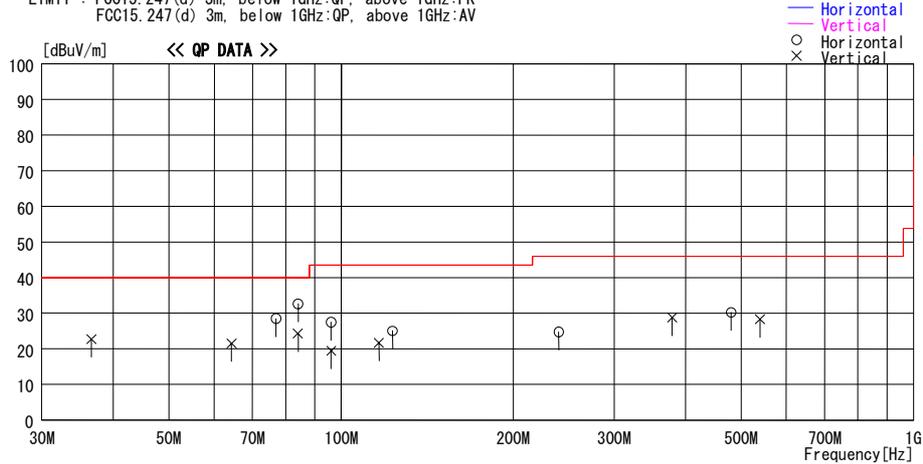
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Serial No. : 3 Operator : Takumi Shimada

Mode / Remarks : BT Tx 2402MHz 3DH5 Hor:X-axis Ver:Z-axis

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]	Comment
			Factor [dB/m]	Loss& Gain [dB]							
36.605	29.1	QP	15.6	-22.0	22.7	0	100	Vert.	40.0	17.3	
64.294	35.4	QP	7.7	-21.6	21.5	0	100	Vert.	40.0	18.5	
76.888	43.2	QP	6.8	-21.5	28.5	276	216	Hori.	40.0	11.5	
84.083	47.0	QP	7.0	-21.4	32.6	271	217	Hori.	40.0	7.4	
84.086	38.7	QP	7.0	-21.4	24.3	134	100	Vert.	40.0	15.7	
96.100	31.6	QP	9.1	-21.2	19.5	133	100	Vert.	43.5	24.0	
96.105	39.6	QP	9.1	-21.2	27.5	292	318	Hori.	43.5	16.0	
116.404	30.4	QP	12.4	-21.1	21.7	0	100	Vert.	43.5	21.8	
123.021	33.0	QP	13.1	-21.0	25.1	271	166	Hori.	43.5	18.4	
240.038	27.5	QP	16.8	-19.5	24.8	149	100	Hori.	46.0	21.2	
480.085	31.3	QP	18.4	-19.5	30.2	223	100	Hori.	46.0	15.8	
378.780	30.6	QP	17.3	-19.2	28.7	203	122	Vert.	46.0	17.3	
539.646	28.7	QP	18.9	-19.3	28.3	193	100	Vert.	46.0	17.7	

CHART:WITH FACTOR ANT TYPE: -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-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(3DH5), Ch. Mid

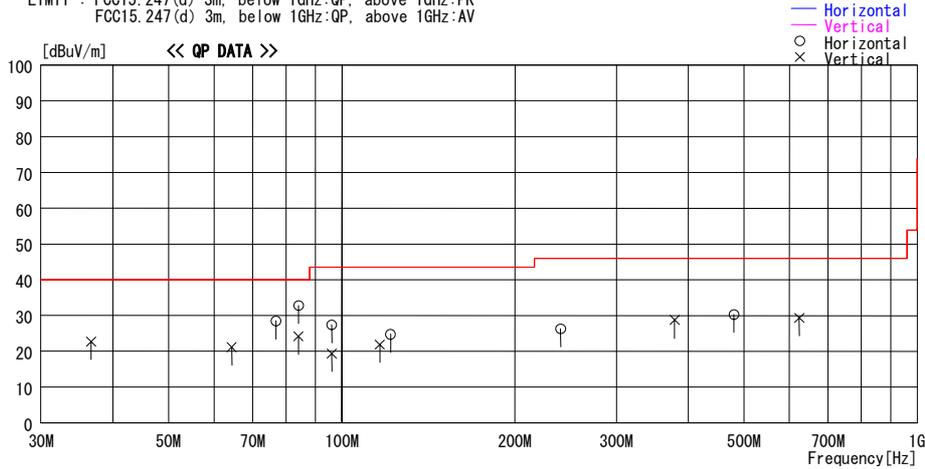
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Model No. : CECHZC2U Temp./Humi. : 25deg.C / 66%
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Mode / Remarks : BT Tx 2441MHz 3DH5 Hor:X-axis Ver:Z-axis

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]	Comment
			Factor [dB/m]	Loss& Gain [dB]							
36.651	29.1	QP	15.6	-22.0	22.7	0	100	Vert.	40.0	17.3	
64.356	35.1	QP	7.7	-21.6	21.2	0	100	Vert.	40.0	18.8	
76.873	43.2	QP	6.8	-21.5	28.5	273	220	Hori.	40.0	11.5	
84.088	47.2	QP	7.0	-21.4	32.8	276	219	Hori.	40.0	7.2	
84.089	38.6	QP	7.0	-21.4	24.2	126	100	Vert.	40.0	15.8	
96.107	31.5	QP	9.1	-21.2	19.4	128	100	Vert.	43.5	24.1	
96.097	39.5	QP	9.1	-21.2	27.4	275	327	Hori.	43.5	16.1	
116.455	30.6	QP	12.4	-21.1	21.9	0	100	Vert.	43.5	21.6	
121.509	32.8	QP	13.0	-21.0	24.8	272	149	Hori.	43.5	18.7	
240.034	29.0	QP	16.8	-19.5	26.3	150	100	Hori.	46.0	19.7	
480.078	31.4	QP	18.4	-19.5	30.3	222	100	Hori.	46.0	15.7	
378.797	30.6	QP	17.3	-19.2	28.7	202	110	Vert.	46.0	17.3	
624.109	28.6	QP	19.7	-18.9	29.4	347	100	Vert.	46.0	16.6	

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

Radiated Spurious Emission (below 1GHz)
Tx(3DH5), Ch. High

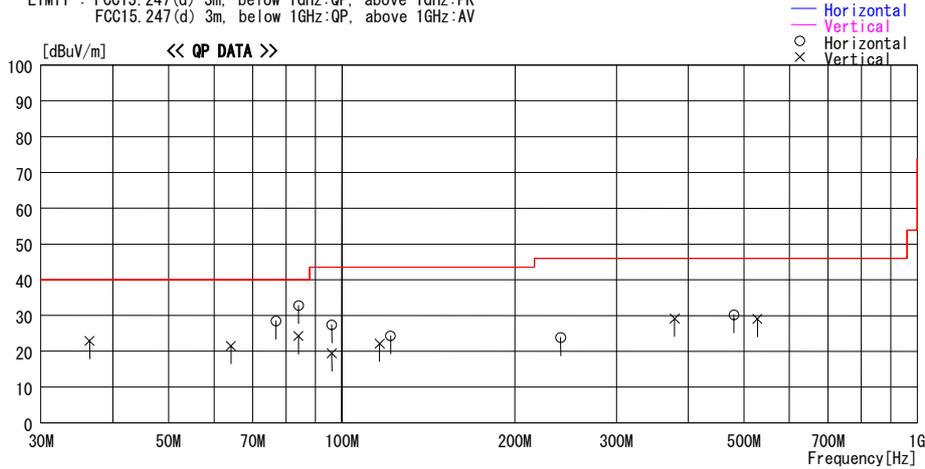
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/10/02

Company : Sony Computer Entertainment Inc. Report No. : 28BE0223-HO-01
Kind of EUT : WIRELESS CONTROLLER Power : DC5V (USB Bus Power)
Model No. : CECHZC2U Temp./Humi. : 25deg.C / 66%
Serial No. : 3 Operator : Takumi Shimada

Mode / Remarks : BT Tx 2480MHz 3DH5 Hor:X-axis Ver:Z-axis

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]	Comment
			Factor [dB/m]	Loss& Gain [dB]							
36.466	29.2	QP	15.7	-22.0	22.9	0	100	Vert.	40.0	17.1	
64.192	35.4	QP	7.7	-21.6	21.5	0	100	Vert.	40.0	18.5	
76.880	43.2	QP	6.8	-21.5	28.5	276	213	Hori.	40.0	11.5	
84.091	47.2	QP	7.0	-21.4	32.8	278	215	Hori.	40.0	7.2	
84.088	38.7	QP	7.0	-21.4	24.3	137	100	Vert.	40.0	15.7	
96.101	31.6	QP	9.1	-21.2	19.5	133	100	Vert.	43.5	24.0	
96.097	39.5	QP	9.1	-21.2	27.4	276	323	Hori.	43.5	16.2	
116.390	30.9	QP	12.4	-21.1	22.2	0	100	Vert.	43.5	21.3	
121.506	32.4	QP	13.0	-21.0	24.4	266	149	Hori.	43.5	19.1	
240.042	26.6	QP	16.8	-19.5	23.9	154	100	Hori.	46.0	22.1	
480.085	31.3	QP	18.4	-19.5	30.2	226	100	Hori.	46.0	15.8	
378.603	31.1	QP	17.3	-19.2	29.2	210	120	Vert.	46.0	16.8	
528.089	29.6	QP	18.8	-19.3	29.1	211	100	Vert.	46.0	16.9	

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)
Rx, Ch. Mid

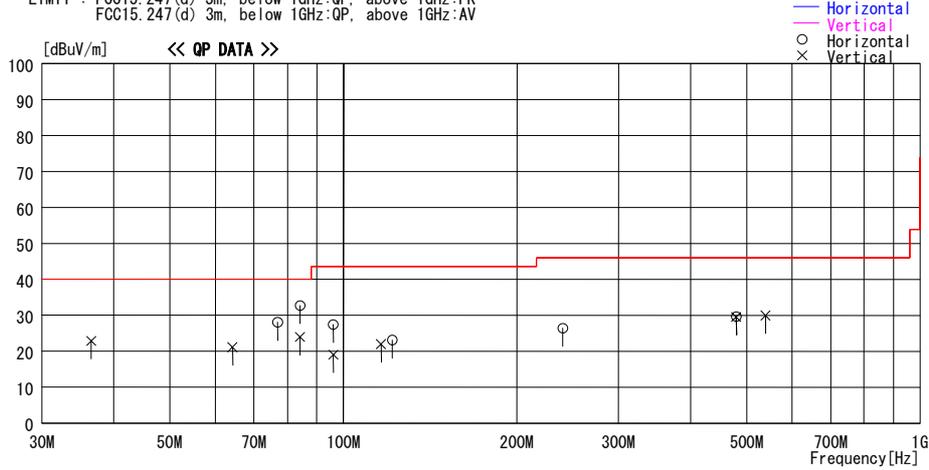
DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/10/02

Company : Sony Computer Entertainment Inc. Report No. : 28BE0223-HO-01
Kind of EUT : WIRELESS CONTROLLER Power : DC5V (USB Bus Power)
Model No. : CECHZC2U Temp./Humi. : 25deg.C / 66%
Serial No. : 3 Operator : Takumi Shimada

Mode / Remarks : BT Rx 2441MHz Hor:X-axis Ver:Z-axis

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	Angle	Height	Polar.	Limit	Margin	Comment
			Factor	Gain							
			[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
36.532	29.3	QP	15.6	-22.0	22.9	0	100	Vert.	40.0	17.1	
64.245	35.1	QP	7.7	-21.6	21.2	0	100	Vert.	40.0	18.8	
76.898	42.8	QP	6.8	-21.5	28.1	287	210	Hori.	40.0	11.9	
84.091	47.1	QP	7.0	-21.4	32.7	279	228	Hori.	40.0	7.3	
84.098	38.4	QP	7.0	-21.4	24.0	127	100	Vert.	40.0	16.0	
96.105	31.2	QP	9.1	-21.2	19.1	155	100	Vert.	43.5	24.4	
96.102	39.6	QP	9.1	-21.2	27.5	287	312	Hori.	43.5	16.0	
116.269	30.7	QP	12.4	-21.1	22.0	0	100	Vert.	43.5	21.5	
121.548	31.1	QP	13.0	-21.0	23.1	267	180	Hori.	43.5	20.4	
240.046	29.2	QP	16.8	-19.5	26.5	307	130	Hori.	46.0	19.5	
480.081	30.8	QP	18.4	-19.5	29.7	218	100	Hori.	46.0	16.3	
480.078	30.7	QP	18.4	-19.5	29.6	181	203	Vert.	46.0	16.4	
539.654	30.4	QP	18.9	-19.3	30.0	199	100	Vert.	46.0	16.0	

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

Radiated Spurious Emission (above 1GHz)
Tx(DH5), Ch. Low

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

Company : Sony Computer Entertainment Inc. REPORT NO : 28BE0223-HO-01
Equipment : WIRELESS CONTROLLER REGULATION : FCC15.247(d)/RSS-210A8.5
Model : CECHZC2U TEST DISTANCE : 3/m
Sample No. : 3 DATE : 10/01/2007
Power : DC5V (USB Bus Power) TEMPERATURE : 25deg.C
Mode : Bluetooth, Tx 2402MHz(DH5) HUMIDITY : 65%
Remarks : Hor X , Ver Z-axis ENGINEER : Takumi Shimada

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	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	2390.0	47.1	46.5	27.1	32.3	3.8	0.0	45.7	45.1	73.9	28.2	28.8
2*	2400.0	67.7	65.9	27.1	32.3	3.8	0.0	66.3	64.5	73.9	-	-
3	4804.0	41.9	42.4	31.3	31.6	5.0	0.5	47.1	47.6	73.9	26.8	26.3
4	7206.0	42.9	43.4	35.7	31.4	5.7	0.6	53.5	54.0	73.9	20.4	19.9
5	9608.0	43.2	43.4	38.5	31.9	6.7	0.8	57.3	57.5	73.9	16.6	16.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12010.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
7	14412.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
8	16814.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
9	19216.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
10	21618.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
11	24020.0	49.1	49.3	40.6	30.7	11.0	0.0	60.5	60.7	73.9	13.4	13.2

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	2390.0	33.8	32.8	27.1	32.3	3.8	0.0	32.4	31.4	53.9	21.5	22.5
2*	2400.0	52.3	50.8	27.1	32.3	3.8	0.0	50.9	49.4	53.9	-	-
3	4804.0	29.0	29.0	31.3	31.6	5.0	0.5	34.2	34.2	53.9	19.7	19.7
4	7206.0	29.5	29.6	35.7	31.4	5.7	0.6	40.1	40.2	53.9	13.8	13.7
5	9608.0	30.1	30.1	38.5	31.9	6.7	0.8	44.2	44.2	53.9	9.7	9.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12010.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
7	14412.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
8	16814.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
9	19216.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
10	21618.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
11	24020.0	34.6	34.6	40.6	30.7	11.0	0.0	46.0	46.0	53.9	7.9	7.9

*Reference data

20dBc(Fundamental 2402MHz) (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 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	2402.0	103.5	101.9	27.1	32.3	3.8	0.0	102.1	100.5	-	-	-
2	2400.0	59.0	57.1	27.1	32.3	3.8	0.0	57.6	55.7	Funda-20dB	24.5	24.8

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

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

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

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

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

Radiated Spurious Emission (above 1GHz)
Tx(DH5), Ch. Mid

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

Company	: Sony Computer Entertainment Inc.	REPORT NO	: 28BE0223-HO-01
Equipment	: WIRELESS CONTROLLER	REGULATION	: FCC15.247(d)/RSS-210A8.5
Model	: CECHZC2U	TEST DISTANCE	: 3/1m
Sample No.	: 3	DATE	: 10/01/2007
Power	: DC5V (USB Bus Power)	TEMPERATURE	: 25deg.C
Mode	: Bluetooth, Tx 2441MHz(DH5)	HUMIDITY	: 65%
Remarks	: Hor X , Ver Z-axis	ENGINEER	: Takumi Shimada

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]					HOR [dBuV/m]	VER [dBuV/m]		HOR [dB]	VER [dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4882.0	42.2	42.0	31.4	31.6	5.0	0.4	47.4	47.2	73.9	26.5	26.7
2	7323.0	43.2	42.6	36.0	31.4	5.8	0.6	54.2	53.6	73.9	19.7	20.3
3	9764.0	43.1	43.0	38.7	32.0	6.8	0.7	57.3	57.2	73.9	16.6	16.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12205.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
5	14646.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
6	17087.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
7	19528.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
8	21969.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
9	24410.0	48.6	49.2	40.7	30.6	11.1	0.0	60.3	60.9	73.9	13.6	13.0

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]					HOR [dBuV/m]	VER [dBuV/m]		HOR [dB]	VER [dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4882.0	28.9	28.9	31.4	31.6	5.0	0.4	34.1	34.1	53.9	19.8	19.8
2	7323.0	29.4	29.4	36.0	31.4	5.8	0.6	40.4	40.4	53.9	13.5	13.5
3	9764.0	29.6	29.6	38.7	32.0	6.8	0.7	43.8	43.8	53.9	10.1	10.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12205.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
5	14646.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
6	17087.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
7	19528.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
8	21969.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
9	24410.0	34.6	34.6	40.7	30.6	11.1	0.0	46.3	46.3	53.9	7.6	7.6

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

- *Except for the above table : All other spurious emissions were less than 20dB for the limit.
- *In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.
- *The test result is round off to one or two decimal places, so some differences might be observed.
- *Hi-Pass Fiter was not used for factor 0.0dB of the above table.

Radiated Spurious Emission (above 1GHz)
Tx(DH5), Ch. High

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

Company	: Sony Computer Entertainment Inc.	REPORT NO	: 28BE0223-HO-01
Equipment	: WIRELESS CONTROLLER	REGULATION	: FCC15.247(d)/RSS-210A8.5
Model	: CECHZC2U	TEST DISTANCE	: 3/1m
Sample No.	: 3	DATE	: 10/01/2007
Power	: DC5V (USB Bus Power)	TEMPERATURE	: 25deg.C
Mode	: Bluetooth, Tx 2480MHz(DH5)	HUMIDITY	: 65%
Remarks	: Hor X , Ver Z-axis	ENGINEER	: Takumi Shimada

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]					HOR [dBuV/m]	VER [dBuV/m]		HOR [dB]	VER [dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	57.8	58.2	27.2	32.3	3.9	0.0	56.6	57.0	73.9	17.3	16.9
2	4960.0	42.2	42.6	31.5	31.6	5.0	0.3	47.4	47.8	73.9	26.5	26.1
3	7440.0	43.1	43.1	36.2	31.4	5.8	0.6	54.3	54.3	73.9	19.6	19.6
4	9920.0	42.7	43.3	38.9	32.0	6.8	0.6	57.0	57.6	73.9	16.9	16.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12400.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
6	14880.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
7	17360.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
8	19840.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
9	22320.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
10	24800.0	48.7	49.0	40.8	30.5	11.4	0.0	60.9	61.2	73.9	13.0	12.7

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 [dBuV]					HOR [dBuV/m]	VER [dBuV/m]		HOR [dB]	VER [dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	44.1	44.3	27.2	32.3	3.9	0.0	42.9	43.1	53.9	11.0	10.8
2	4960.0	28.8	29.1	31.5	31.6	5.0	0.3	34.0	34.3	53.9	19.9	19.6
3	7440.0	29.4	29.4	36.2	31.4	5.8	0.6	40.6	40.6	53.9	13.3	13.3
4	9920.0	29.7	29.7	38.9	32.0	6.8	0.6	44.0	44.0	53.9	9.9	9.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12400.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
6	14880.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
7	17360.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
8	19840.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
9	22320.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
10	24800.0	34.7	34.7	40.8	30.5	11.4	0.0	46.9	46.9	53.9	7.0	7.0

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

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

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

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

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

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Radiated Spurious Emission (above 1GHz)
Tx(3DH5), Ch. Low

UL Japan, Inc.
Head Office EMC Lab. No.2 Semi Anechoic Chambe

Company : Sony Computer Entertainment Inc. REPORT NO : 28BE0223-HO-01
Equipment : WIRELESS CONTROLLER REGULATION : FCC15.247(d)/RSS-210A8.5
Model : CECHZC2U TEST DISTANCE : 3/1m
Sample No. : 3 DATE : 10/01/2007
Power : DC5V (USB Bus Power) TEMPERATURE : 25deg.C
Mode : Bluetooth, Tx 2402MHz(3DH5) HUMIDITY : 65%
Remarks : Hor X , Ver Z-axis ENGINEER : Takumi Shimada

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	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	2390.0	50.9	49.1	27.1	32.3	3.8	0.0	49.5	47.7	73.9	24.4	26.2
2*	2400.0	75.4	73.7	27.1	32.3	3.8	0.0	74.0	72.3	73.9	-	-
3	4804.0	42.9	42.7	31.3	31.6	5.0	0.5	48.1	47.9	73.9	25.8	26.0
4	7206.0	42.2	42.8	35.7	31.4	5.7	0.6	52.8	53.4	73.9	21.1	20.5
5	9608.0	43.2	43.4	38.5	31.9	6.7	0.8	57.3	57.5	73.9	16.6	16.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12010.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
7	14412.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
8	16814.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
9	19216.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
10	21618.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
11	24020.0	49.0	49.1	40.6	30.7	11.0	0.0	60.4	60.5	73.9	13.5	13.4

* 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	2390.0	35.9	34.5	27.1	32.3	3.8	0.0	34.5	33.1	53.9	19.4	20.8
2*	2400.0	55.9	54.6	27.1	32.3	3.8	0.0	54.5	53.2	53.9	-	-
3	4804.0	28.9	28.9	31.3	31.6	5.0	0.5	34.1	34.1	53.9	19.8	19.8
4	7206.0	29.5	29.6	35.7	31.4	5.7	0.6	40.1	40.2	53.9	13.8	13.7
5	9608.0	30.1	30.1	38.5	31.9	6.7	0.8	44.2	44.2	53.9	9.7	9.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12010.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
7	14412.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
8	16814.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
9	19216.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
10	21618.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
11	24020.0	34.5	34.6	40.6	30.7	11.0	0.0	45.9	46.0	53.9	8.0	7.9

* Reference data

20dBc(Fundamental 2402MHz) (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 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	2402.0	103.8	102.2	27.1	32.3	3.8	0.0	102.4	100.8	-	-	-
2	2400.0	59.7	57.9	27.1	32.3	3.8	0.0	58.3	56.5	Funda-20dB	24.1	24.3

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

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

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

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

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

Radiated Spurious Emission (above 1GHz)
Tx(3DH5), Ch. Mid

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

Company : Sony Computer Entertainment Inc. REPORT NO : 28BE0223-HO-01
Equipment : WIRELESS CONTROLLER REGULATION : FCC15.247(d)/RSS-210A8.5
Model : CECHZC2U TEST DISTANCE : 3/1m
Sample No. : 3 DATE : 10/01/2007
Power : DC5V (USB Bus Power) TEMPERATURE : 25deg.C
Mode : Bluetooth, Tx 2441MHz(3DH5) HUMIDITY : 65%
Remarks : Hor X , Ver Z-axis ENGINEER : Takumi Shimada

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	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	4882.0	42.8	42.5	31.4	31.6	5.0	0.4	48.0	47.7	73.9	25.9	26.2
2	7323.0	43.0	42.2	36.0	31.4	5.8	0.6	54.0	53.2	73.9	19.9	20.7
3	9764.0	43.6	42.6	38.7	32.0	6.8	0.7	57.8	56.8	73.9	16.1	17.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12205.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
5	14646.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
6	17087.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
7	19528.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
8	21969.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
9	24410.0	48.9	49.1	40.7	30.6	11.1	0.0	60.6	60.8	73.9	13.3	13.1

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER					HOR [dBuV/m]	VER		HOR [dB]	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4882.0	28.9	28.8	31.4	31.6	5.0	0.4	34.1	34.0	53.9	19.8	19.9
2	7323.0	29.4	29.4	36.0	31.4	5.8	0.6	40.4	40.4	53.9	13.5	13.5
3	9764.0	29.6	29.6	38.7	32.0	6.8	0.7	43.8	43.8	53.9	10.1	10.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12205.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
5	14646.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
6	17087.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
7	19528.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
8	21969.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
9	24410.0	34.6	34.6	40.7	30.6	11.1	0.0	46.3	46.3	53.9	7.6	7.6

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB
*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.
*The test result is round off to one or two decimal places, so some differences might be observed.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

**Radiated Spurious Emission (above 1GHz)
Tx(3DH5), Ch. High**

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

Company	: Sony Computer Entertainment Inc.	REPORT NO	: 28BE0223-HO-01
Equipment	: WIRELESS CONTROLLER	REGULATION	: FCC15.247(d)/RSS-210A8.5
Model	: CECHZC2U	TEST DISTANCE	: 3/1m
Sample No.	: 3	DATE	: 10/01/2007
Power	: DC5V (USB Bus Power)	TEMPERATURE	: 25deg.C
Mode	: Bluetooth, Tx 2480MHz(3DH5)	HUMIDITY	: 65%
Remarks	: Hor X , Ver Z-axis	ENGINEER	: Takumi Shimada

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	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	2483.5	66.6	66.1	27.2	32.3	3.9	0.0	65.4	64.9	73.9	8.5	9.0
2	4960.0	42.5	42.4	31.5	31.6	5.0	0.3	47.7	47.6	73.9	26.2	26.3
3	7440.0	43.5	42.9	36.2	31.4	5.8	0.6	54.7	54.1	73.9	19.2	19.8
4	9920.0	43.8	42.9	38.9	32.0	6.8	0.6	58.1	57.2	73.9	15.8	16.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12400.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
6	14880.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
7	17360.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
8	19840.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
9	22320.0	N/S	N/S	-	-	-	-	-	-	73.9	-	-
10	24800.0	49.0	49.2	40.8	30.5	11.4	0.0	61.2	61.4	73.9	12.7	12.5

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 [dBuV]	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	48.5	48.3	27.2	32.3	3.9	0.0	47.3	47.1	53.9	6.6	6.8
2	4960.0	28.8	28.8	31.5	31.6	5.0	0.3	34.0	34.0	53.9	19.9	19.9
3	7440.0	29.5	29.4	36.2	31.4	5.8	0.6	40.7	40.6	53.9	13.2	13.3
4	9920.0	29.7	29.7	38.9	32.0	6.8	0.6	44.0	44.0	53.9	9.9	9.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12400.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
6	14880.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
7	17360.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
8	19840.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
9	22320.0	N/S	N/S	-	-	-	-	-	-	53.9	-	-
10	24800.0	34.5	34.5	40.8	30.5	11.4	0.0	46.7	46.7	53.9	7.2	7.2

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

- *Except for the above table : All other spurious emissions were less than 20dB for the limit.
- *In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.
- *The test result is round off to one or two decimal places, so some differences might be observed.
- *Hi-Pass Fiter was not used for factor 0.0dB of the above table.

**Radiated Spurious Emission (above 1GHz)
Rx, Ch. Mid**

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

Company	: Sony Computer Entertainment Inc.	REPORT NO	: 28BE0223-HO-01
Equipment	: WIRELESS CONTROLLER	REGULATION	: FCC15.247(d)/RSS-210A8.5
Model	: CECHZC2U	TEST DISTANCE	: 3m
Sample No.	: 3	DATE	: 10/01/2007
Power	: DC5V (USB Bus Power)	TEMPERATURE	: 25deg.C
Mode	: Bluetooth, Rx 2441MHz	HUMIDITY	: 65%
Remarks	: Hor X , Ver Z-axis	ENGINEER	: Takumi Shimada

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

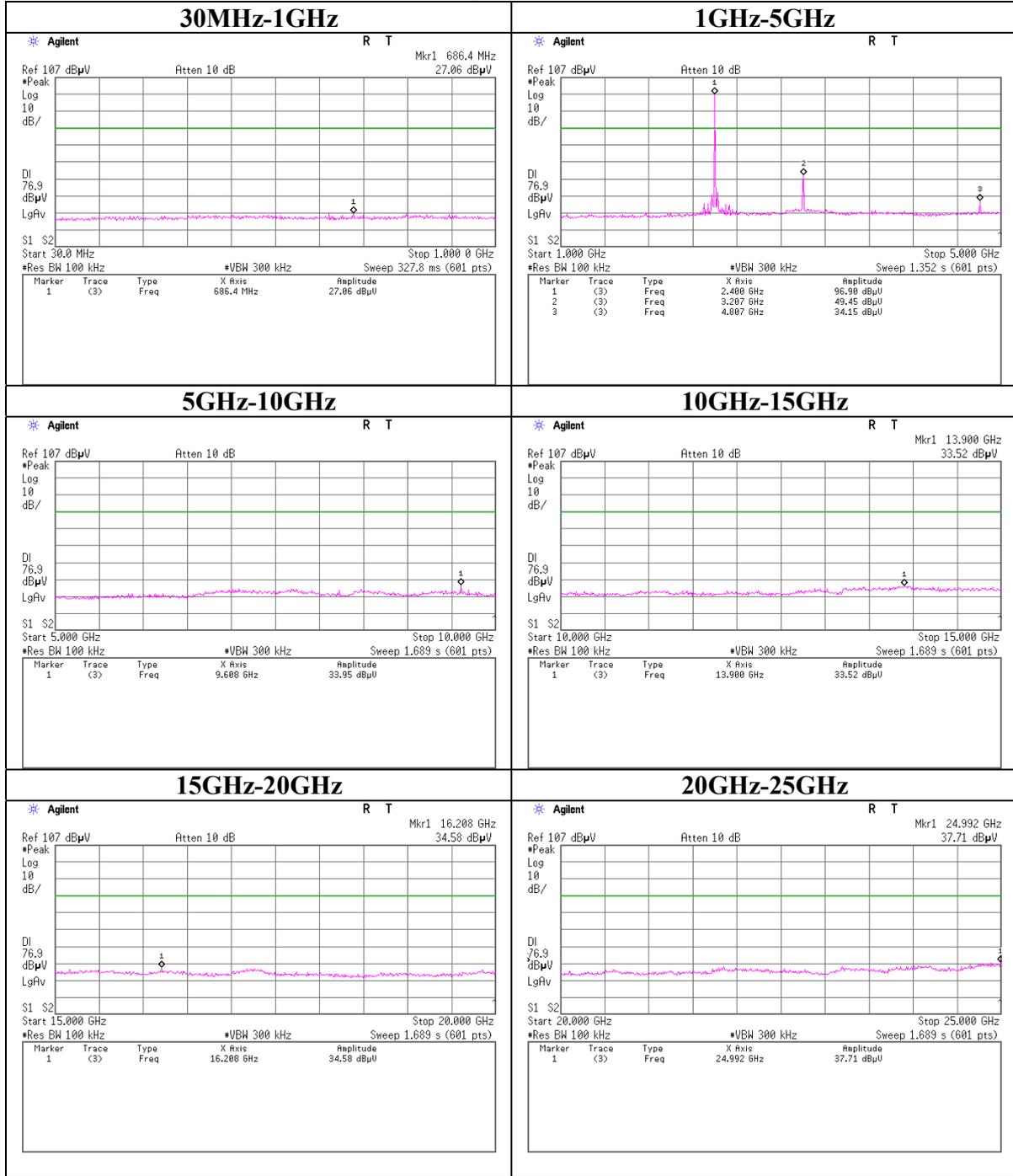
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2441.0	50.4	48.7	27.2	32.3	3.9	0.0	49.2	47.5	73.9	24.7	26.4
2	4882.0	40.7	40.2	31.4	31.6	5.0	0.0	45.5	45.0	73.9	28.4	28.9
3	7323.0	41.3	41.2	36.0	31.4	5.8	0.0	51.7	51.6	73.9	22.2	22.3
4	9764.0	41.4	41.2	38.7	32.0	6.8	0.0	54.9	54.7	73.9	19.0	19.2

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

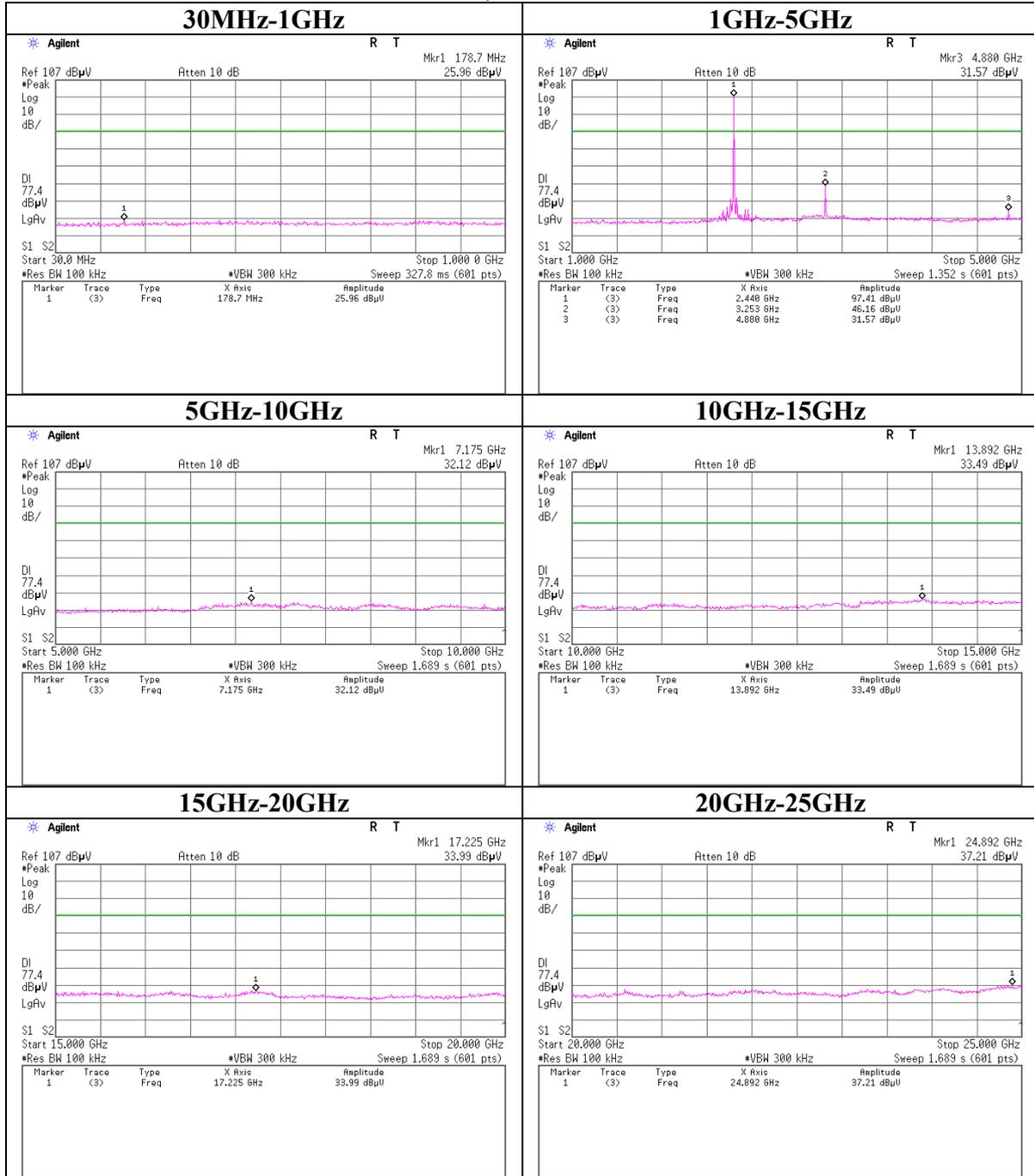
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2441.0	46.8	43.7	27.2	32.3	3.9	0.0	45.6	42.5	53.9	8.3	11.4
2	4882.0	27.5	27.5	31.4	31.6	5.0	0.0	32.3	32.3	53.9	21.6	21.6
3	7323.0	27.0	27.1	36.0	31.4	5.8	0.0	37.4	37.5	53.9	16.5	16.4
4	9764.0	27.8	27.8	38.7	32.0	6.8	0.0	41.3	41.3	53.9	12.6	12.6

*Except for the above table : All other spurious emissions were less than 20dB for the limit.
*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.
*The test result is round off to one or two decimal places, so some differences might be observed.
*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

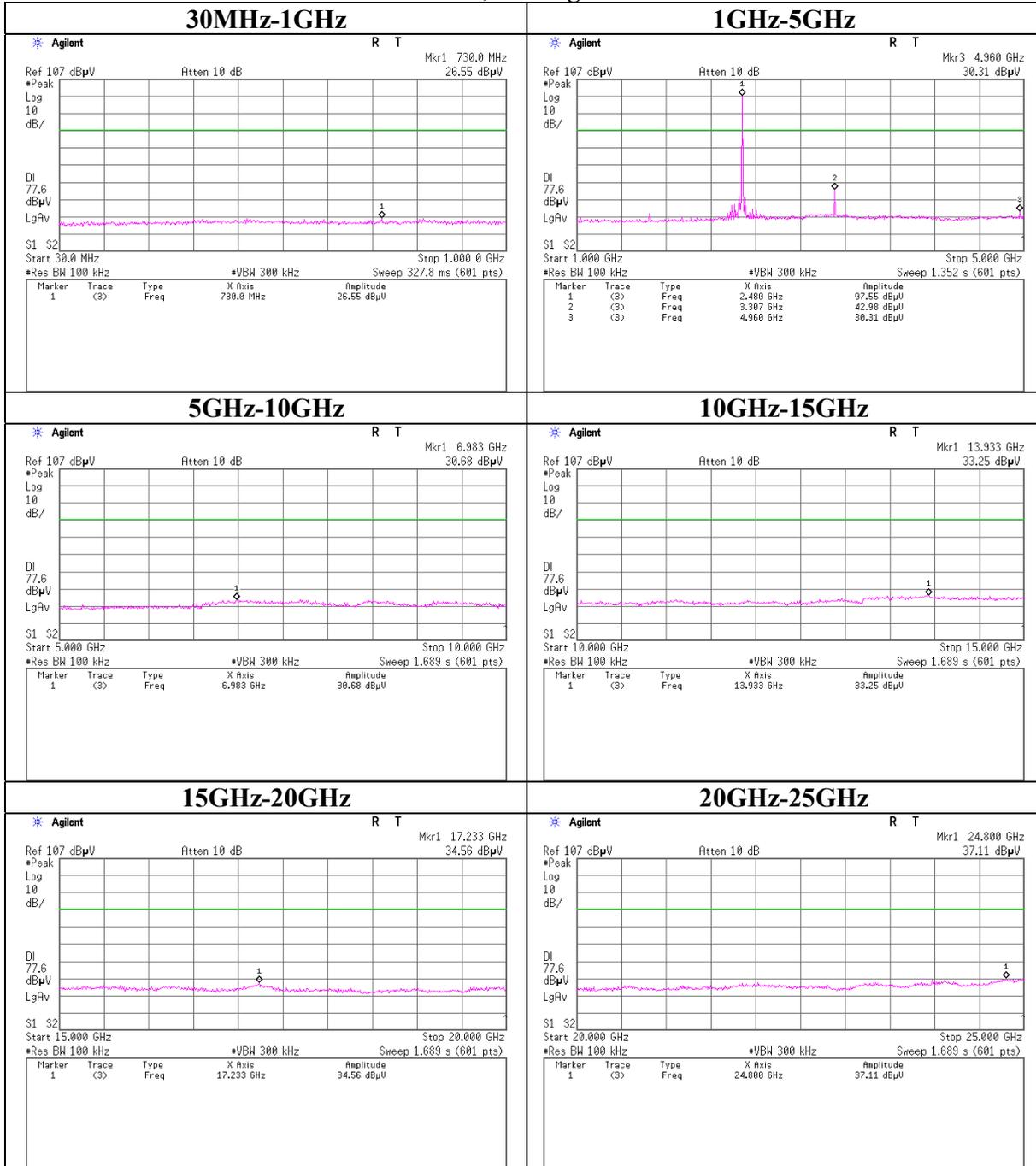
Conducted Spurious Emission
Tx, Ch:Low



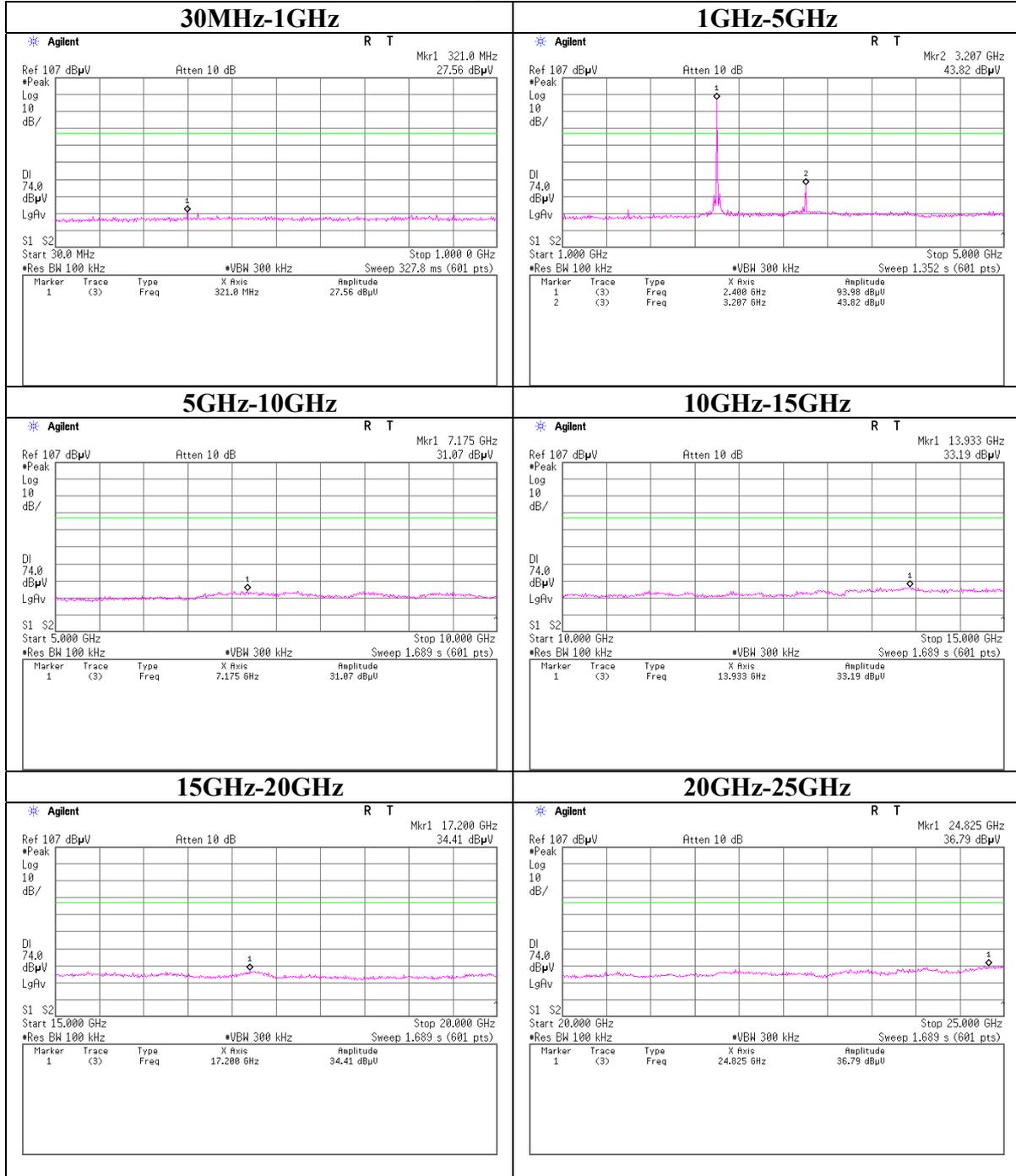
Conducted Spurious Emission
Tx, Ch:Mid



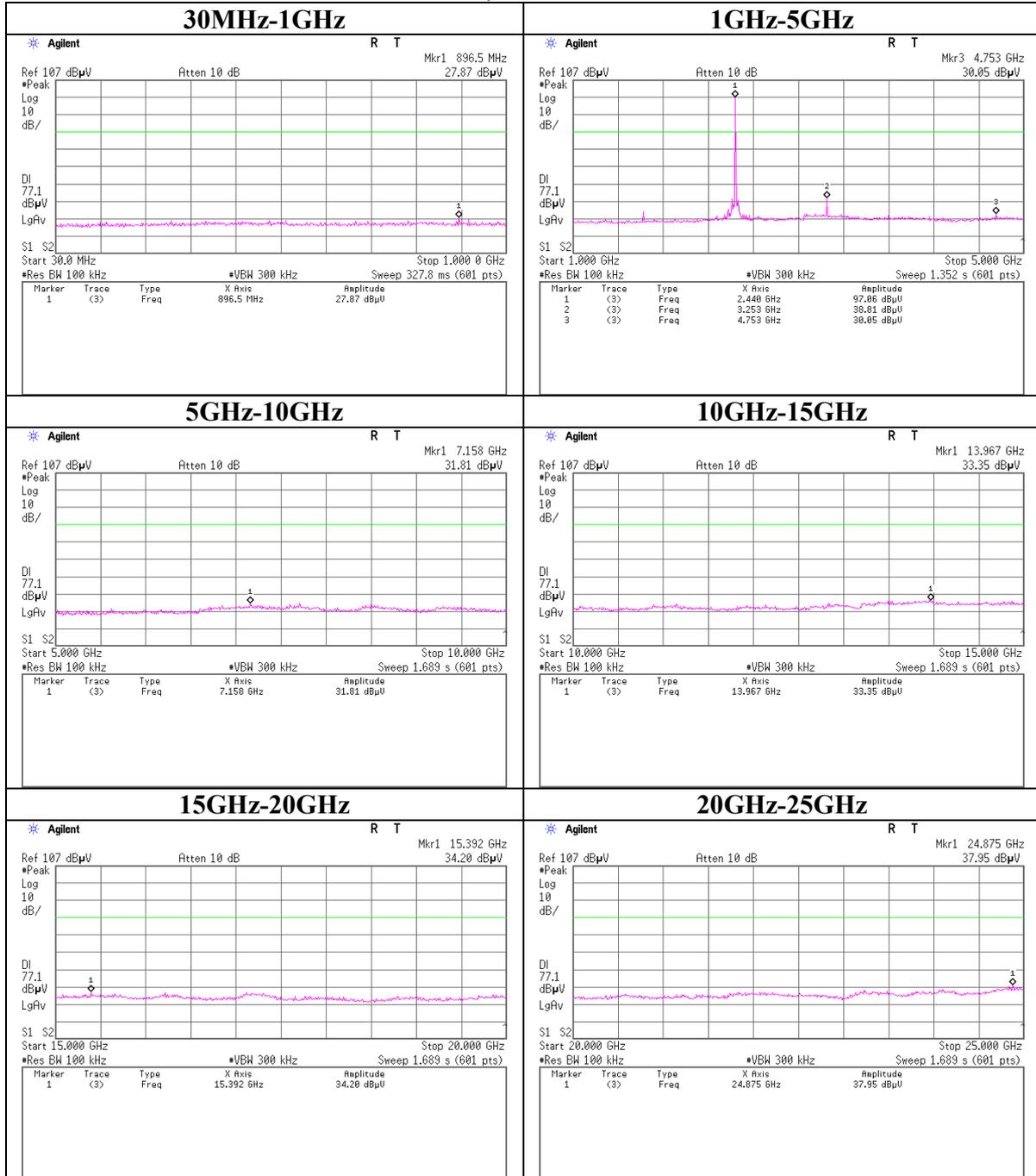
Conducted Spurious Emission
Tx, Ch:High



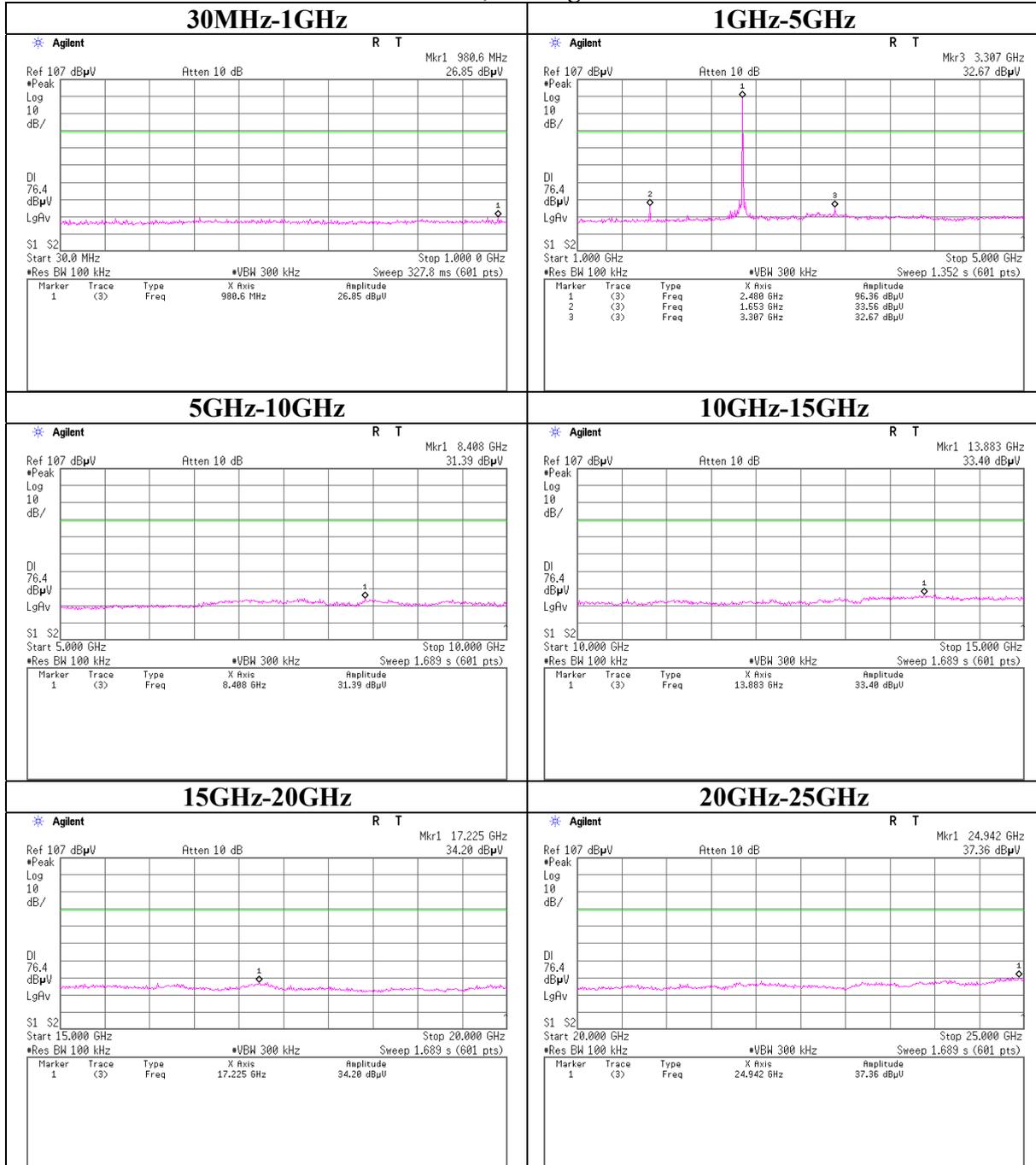
Conducted Spurious Emission (EDR)
Tx, Ch:Low



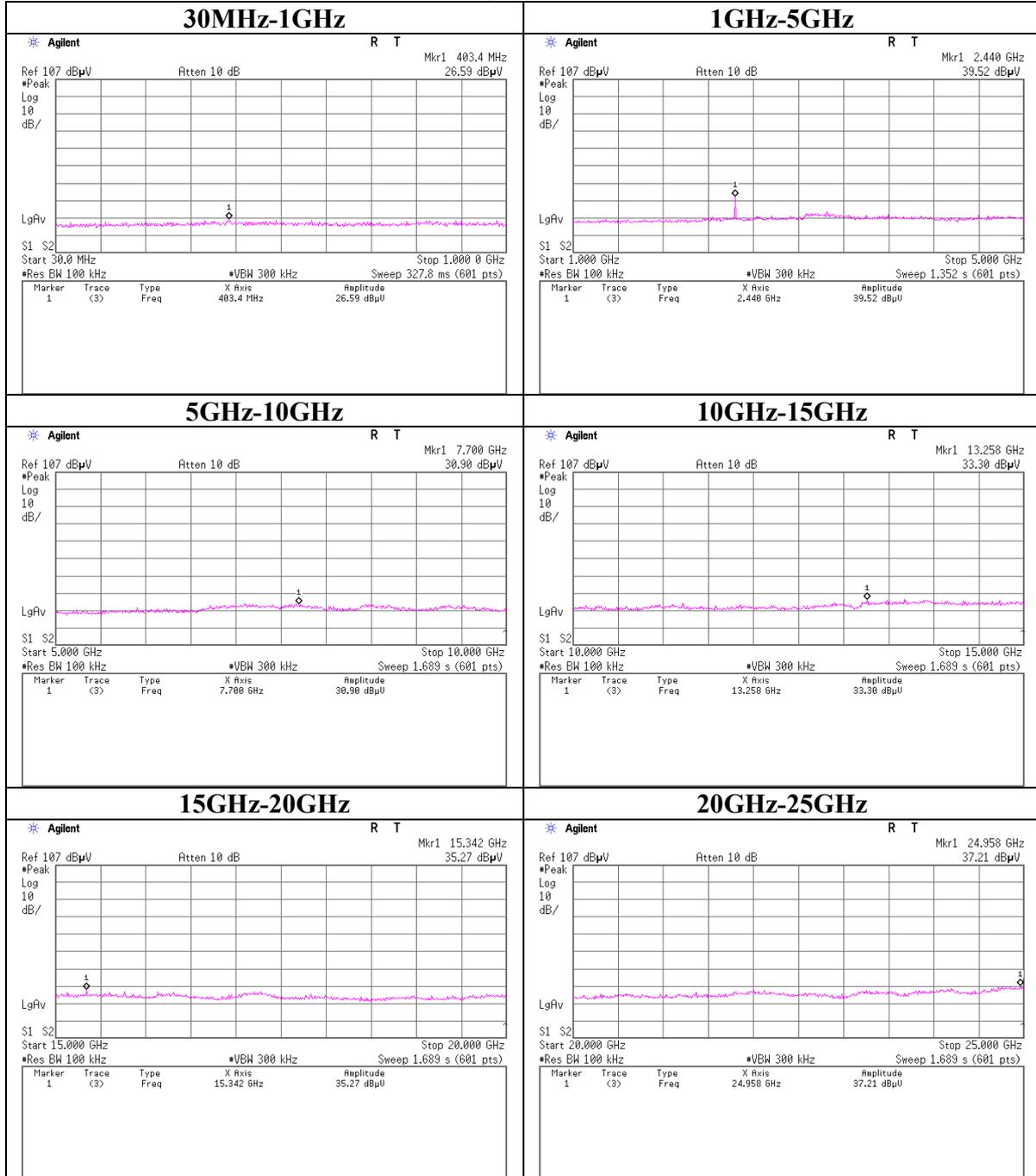
Conducted Spurious Emission (EDR)
Tx, Ch:Mid



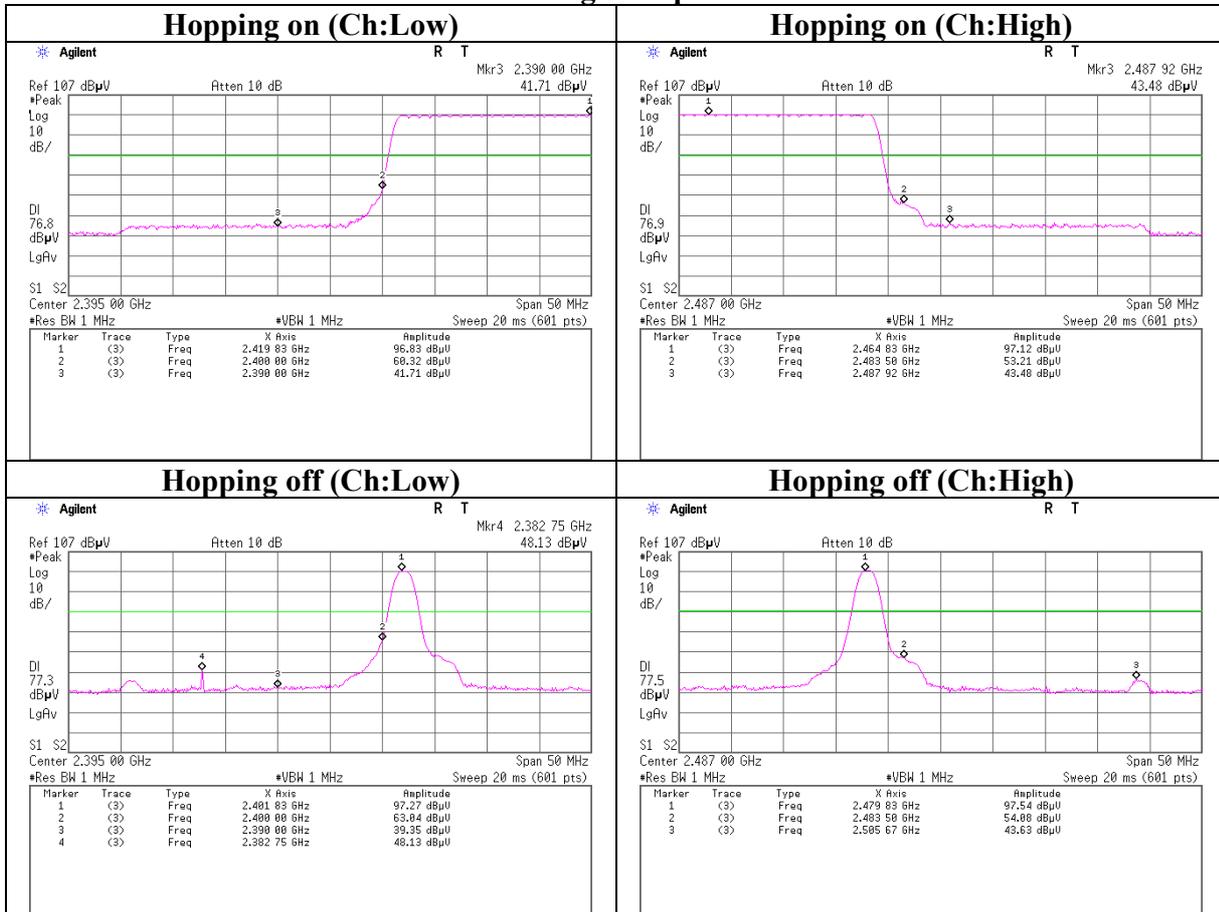
Conducted Spurious Emission (EDR)
Tx, Ch:High



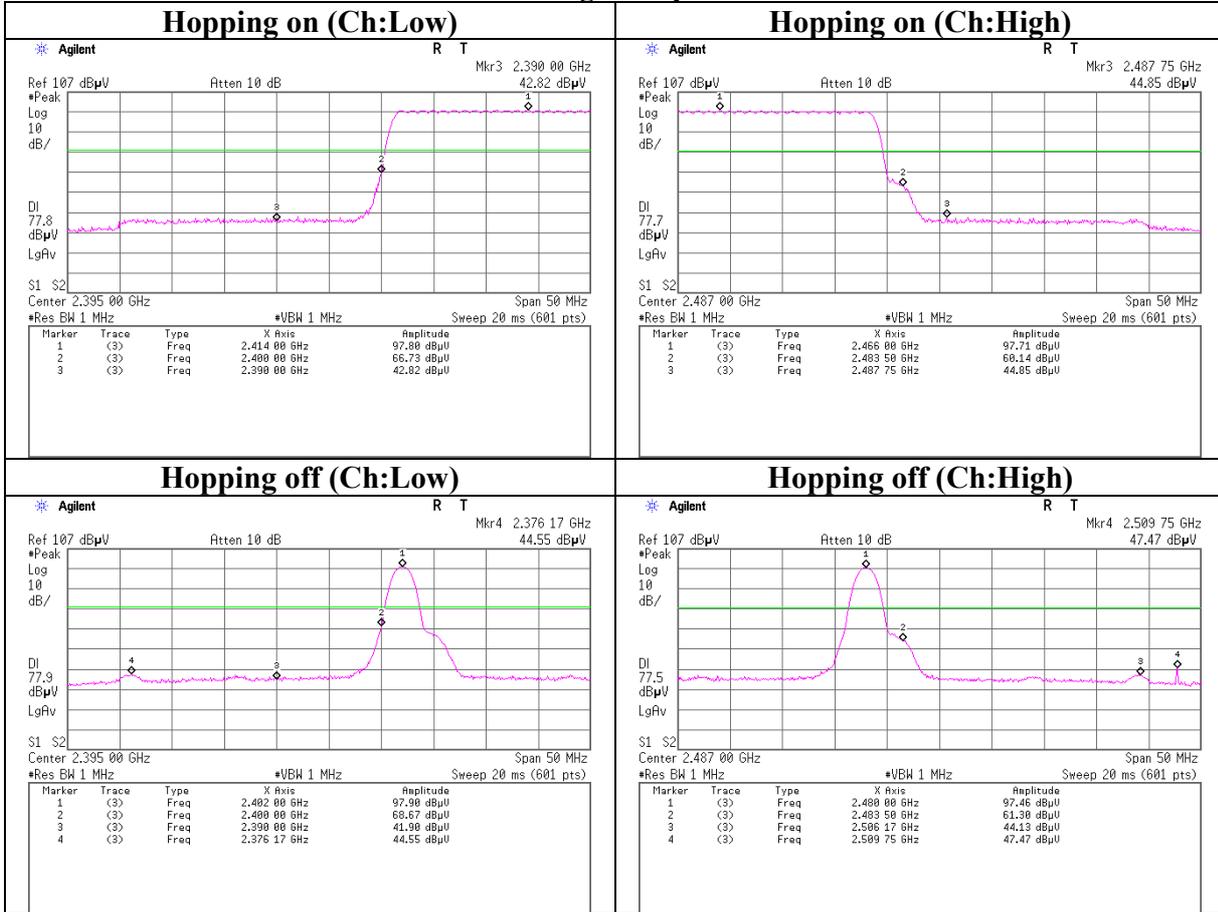
Conducted Spurious Emission
Rx, Ch:Mid



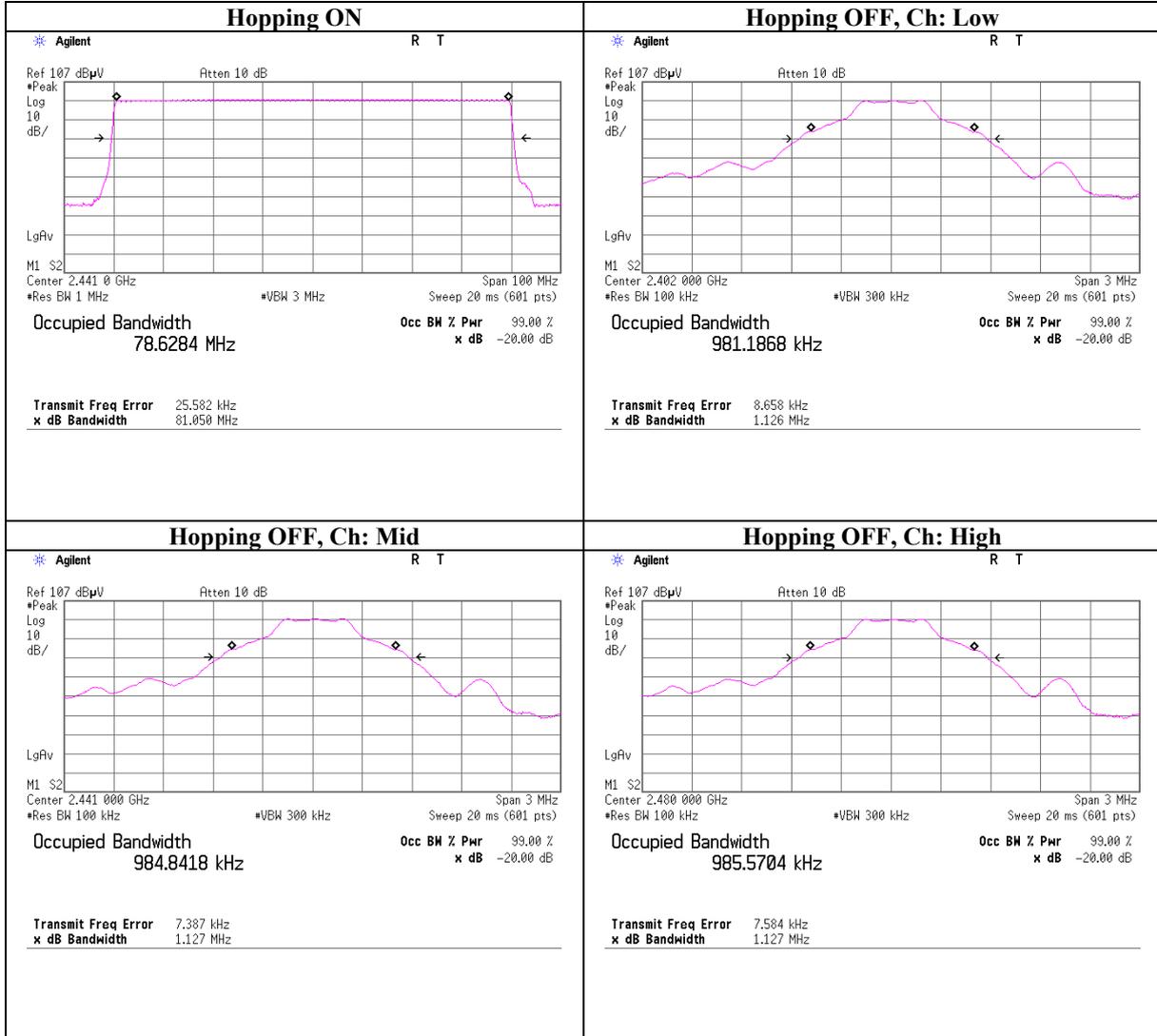
Conducted Spurious Emission Band Edge compliance



Conducted Spurious Emission (EDR)
Band Edge compliance

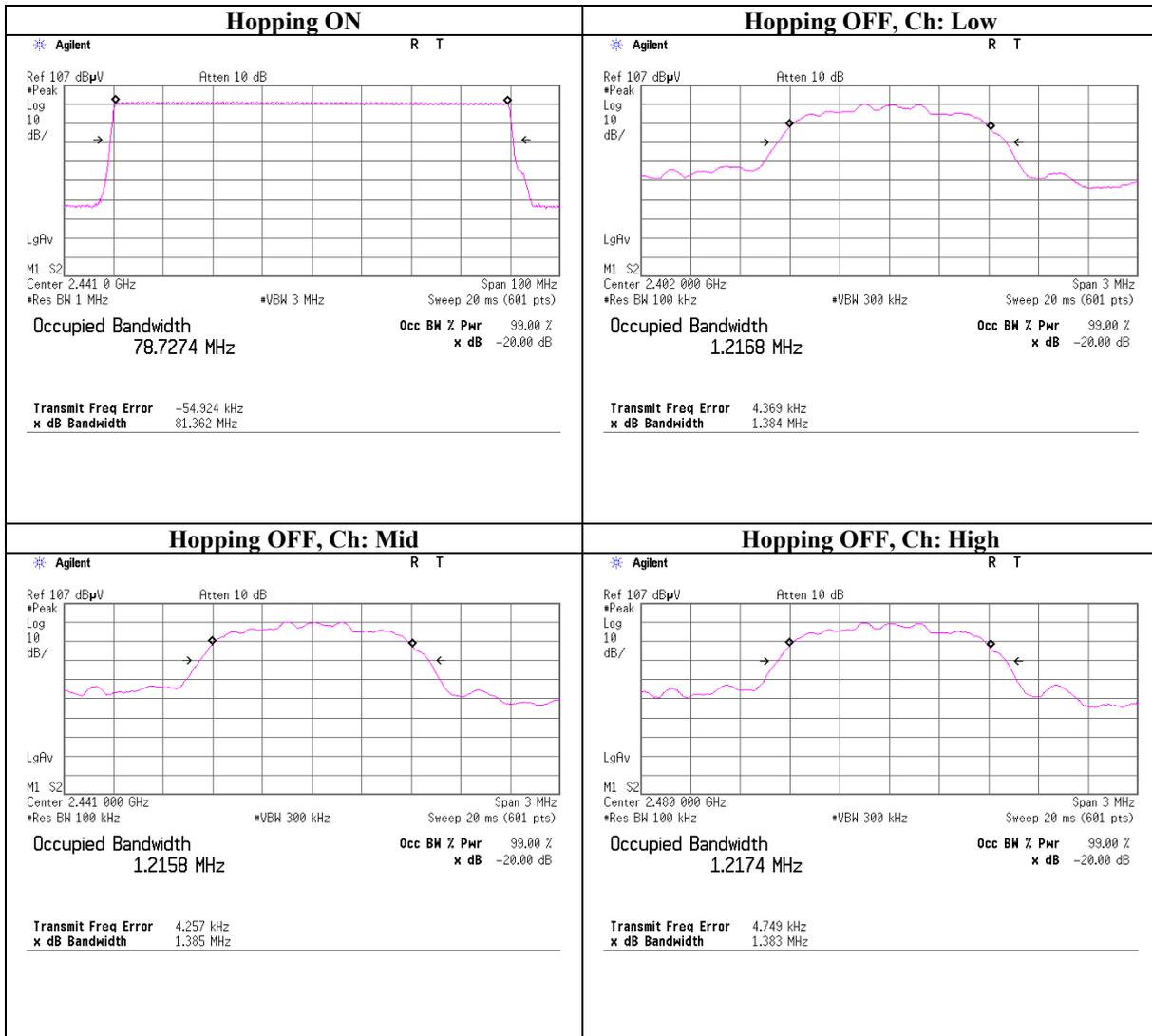


99% Occupied Bandwidth



*Refer to 20dB Bandwidth for 99% Bandwidth inquiry mode

99% Occupied Bandwidth(EDR)



*Refer to 20dB Bandwidth for 99% Bandwidth inquiry mode

APPENDIX 3:Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-02	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE	2007/04/02 * 12
MHA-06	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2007/01/30 * 12
MHA-02	Horn Antenna	EMCO	3160-09	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
MSA-04	Spectrum Analyzer	Agilent	E4448A	RE	2007/06/20 * 12
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE	-
MHF-06	High Pass Filter 3.5-24GHz	Tokimec	TF323DCA	RE	2007/05/30 * 12
MOS-02	Digital Humidity Indicator	N.T	NT-1800	RE	2006/11/27 * 12
MJM-05	Measure	PROMART	SEN1955	RE	-
MBA-02	Biconical Antenna	Schwarzbeck	BBA9106	RE	2006/10/07 * 12
MLA-02	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2006/10/07 * 12
MCC-12	Coaxial Cable	Fujikura/Agilent	-	RE	2007/02/27 * 12
MAT-07	Attenuator(6dB)	Weinschel Corp	2	RE	2006/12/27 * 12
MPA-09	Pre Amplifier	Agilent	8447D	RE	2007/09/13 * 12
MTR-03	Test Receiver	Rohde & Schwarz	ESCI	RE	2007/03/01 * 12
MSA-03	Spectrum Analyzer	Agilent	E4448A	AT	2007/09/05 * 12
MPM-09	Power Meter	Anritsu	ML2495A	AT	2007/09/22 * 12
MPSE-12	Power sensor	Anritsu	MA2411B	AT	2007/09/22 * 12
MCC-66	Microwave Cable 1G-40GHz	Schner	SUCOFLEX102	AT	2007/04/03 * 12
MAT-23	Attenuator(10dB) DC-18GHz	Orient Microwave	BX10-0476-00	AT	2007/03/07 * 12
MOS-04	Digital Humidity Indicator	N.T	NT-1800	AT	2006/11/27 * 12

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

All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

Test Item:

RE: Radiated Emission

AT: Antenna Terminal Conducted test

UL Japan, Inc.

Head Office EMC Lab.

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