

**APPENDIX 2: Data of EMI test**

**Carrier Frequency Separation**

UL Japan, Inc.  
Head Office EMC Lab. No.11 Shielded Room

COMPANY	: Sony Corporation	REGULATION	: FCC15.247(a)(1)/RSS-210A8.1(b)
EQUIPMENT	: Digital Media Player	TEST DISTANCE	: -
MODEL	: NWZ-A826	DATE	: 1/7/2008
S/ N	: 0000371	TEMPERATURE	: 20deg.C
POWER	: DC3.7V(Battery)	HUMIDITY	: 46%
MODE	: Bluetooth Tx(Hopping on)/Inquiry	ENGINEER	: Shinya Watanabe

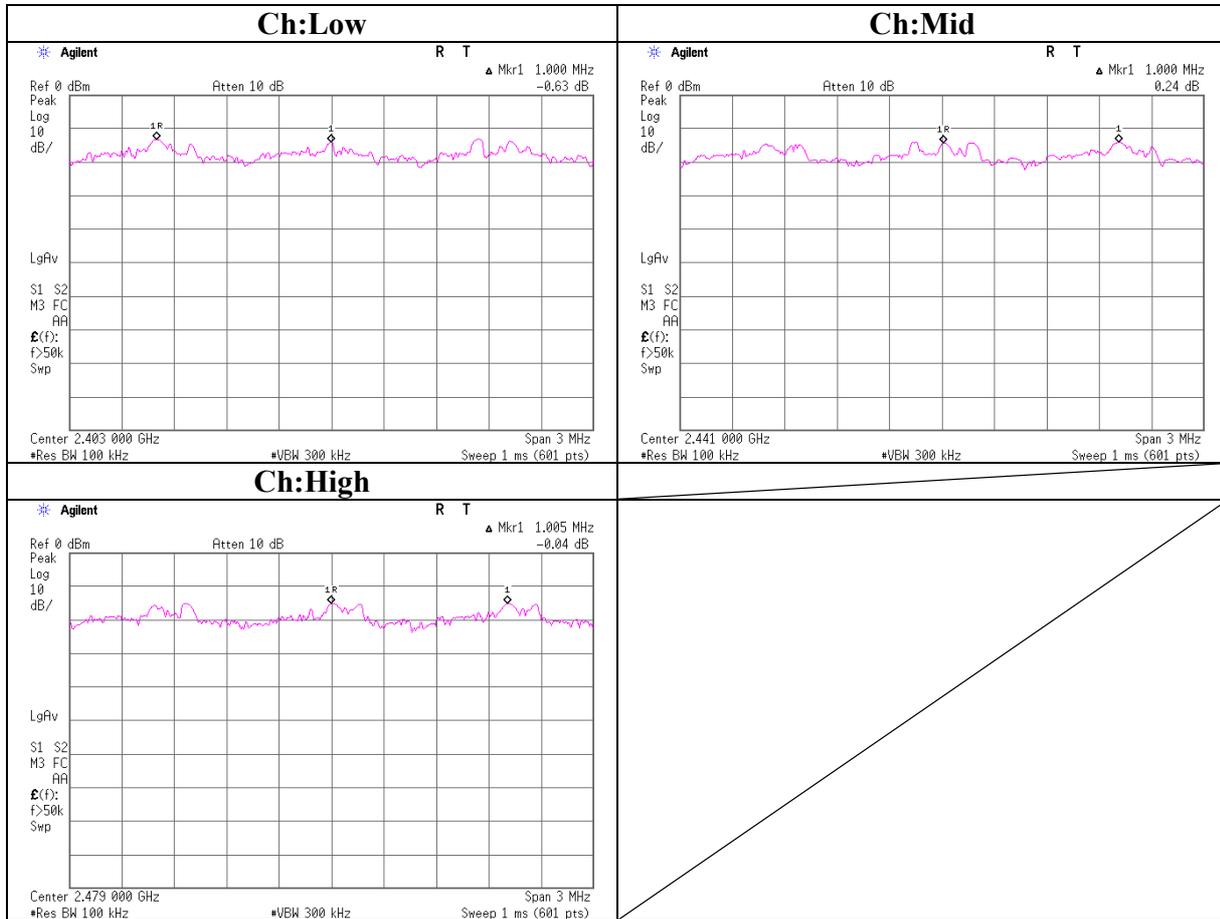
<b>DH5</b>			
Ch	Freq. [MHz]	Channel separation [MHz]	Limit
Low	2402.0	1.000	>two-thirds of the 0.945[MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)
Mid	2441.0	1.005	>two-thirds of the 0.945[MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)
High	2480.0	1.000	>two-thirds of the 0.945[MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)
Inquiry	2441.0	2.000	>two-thirds of the 0.815[MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)

<b>3DH5</b>			
Ch	Freq. [MHz]	Channel separation [MHz]	Limit
Low	2402.0	1.000	>two-thirds of the 1.265[MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)
Mid	2441.0	1.000	>two-thirds of the 1.265[MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)
High	2480.0	1.005	>two-thirds of the 1.265[MHz] (20dB Bandwidth) or 25[kHz](whichever is greater)

**UL Japan, Inc.**  
**Head Office EMC Lab.**  
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**Carrier Frequency Separation (EDR)**



## 20dB Bandwidth

UL Japan, Inc.  
Head Office EMC Lab. No.11 Shielded Room

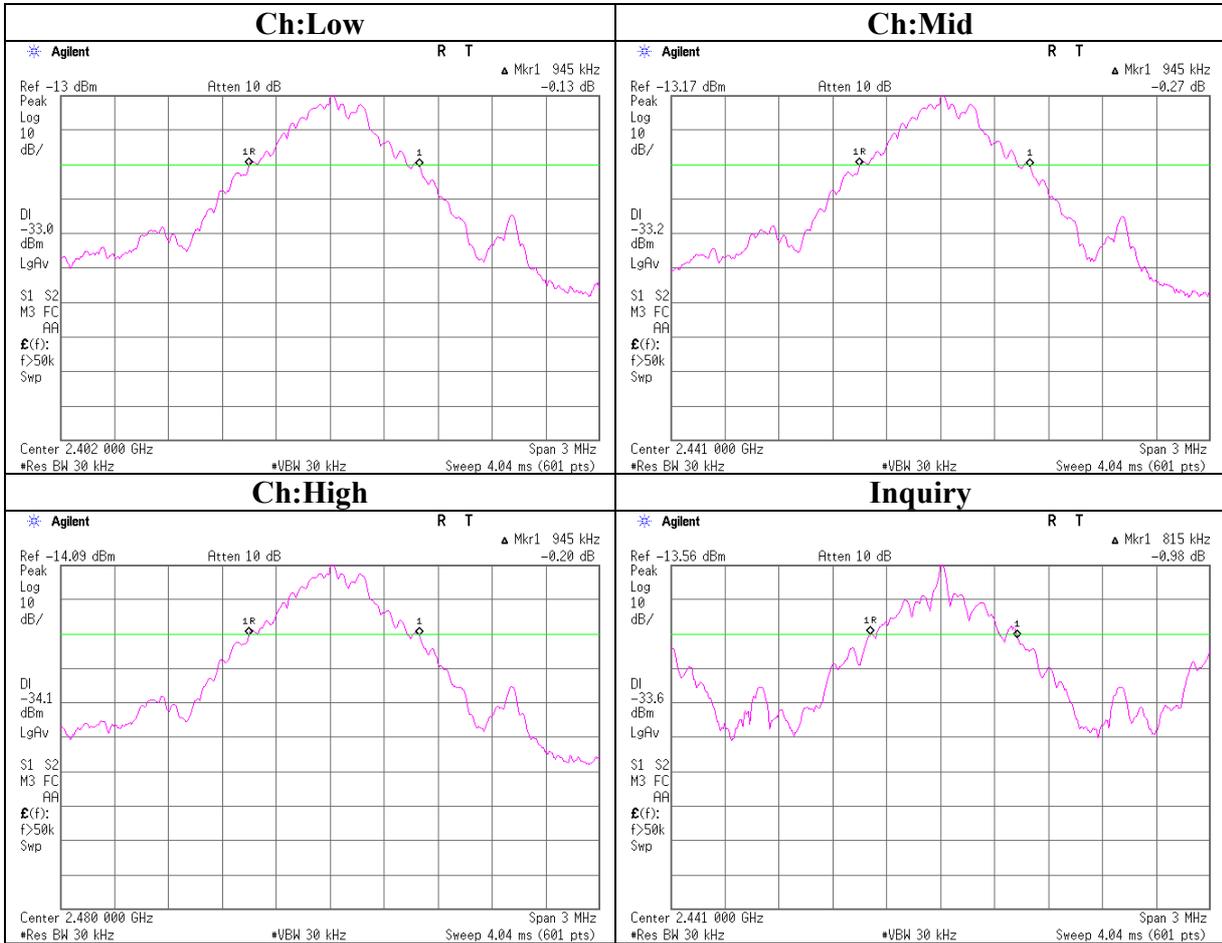
COMPANY : Sony Corporation  
EQUIPMENT : Digital Media Player  
MODEL : NWZ-A826  
S/N : 0000371  
POWER : DC3.7V(Battery)  
MODE : Bluetooth Tx (Hopping off) /Inquiry

REGULATION : FCC15.247(a)(1)/RSS-210A8.1(a)  
TEST DISTANCE : -  
DATE : 1/7/2008  
TEMPERATURE : 20deg.C  
HUMIDITY : 46%  
ENGINEER : Shinya Watanabe

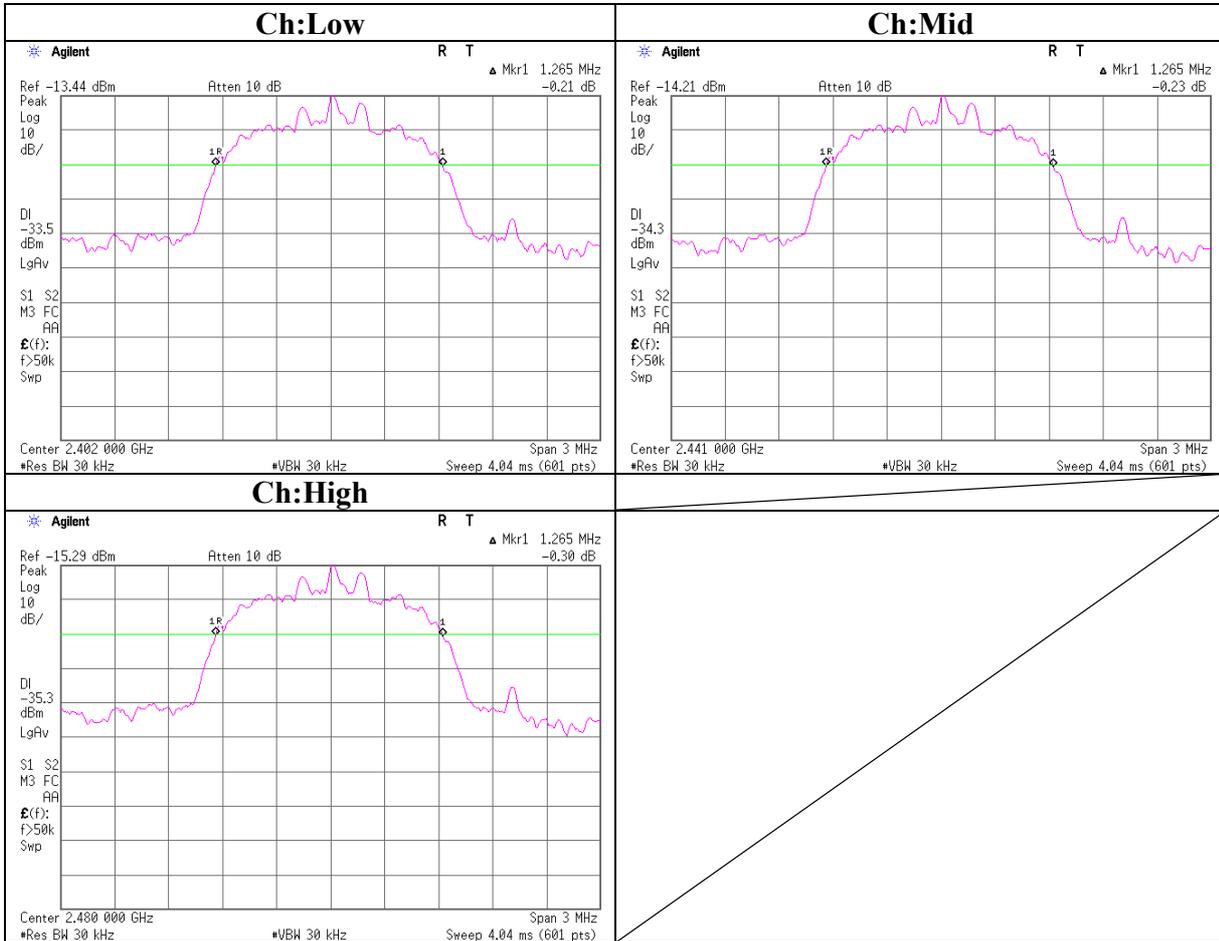
<b>DH5</b>			
Ch	Freq.	20dB Bandwidth	Limit
	[MHz]	[MHz]	[MHz]
Low	2402.0	0.945	-
Mid	2441.0	0.945	-
High	2480.0	0.945	-
Inquiry	2441.0	0.815	-

<b>3DH5</b>			
Ch	Freq.	20dB Bandwidth	Limit
	[MHz]	[MHz]	[MHz]
Low	2402.0	1.265	-
Mid	2441.0	1.265	-
High	2480.0	1.265	-

**20dB Bandwidth**



**20dB Bandwidth (EDR)**



### Number of Hopping Frequency

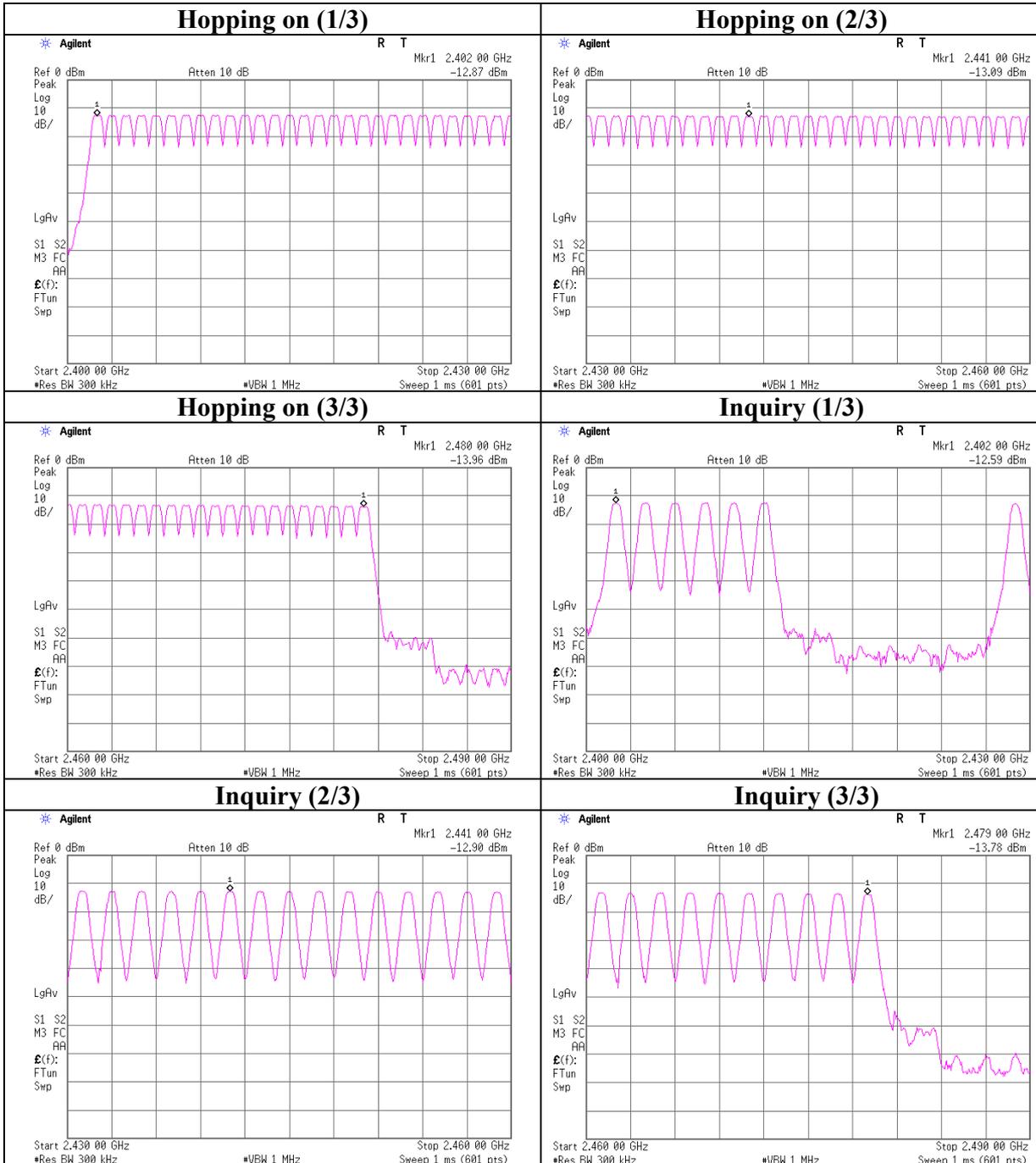
UL Japan, Inc.  
Head Office EMC Lab. No.11 Shielded Room

COMPANY	: Sony Corporation	REGULATION	: FCC15.247(a)(1)(iii)/RSS-210A8.1(d)
EQUIPMENT	: Digital Media Player	TEST DISTANCE	: -
MODEL	: NWZ-A826	DATE	: 1/7/2008
S/ N	: 0000371	TEMPERATURE	: 20deg.C
POWER	: DC3.7V(Battery)	HUMIDITY	: 46%
MODE	: Bluetooth Tx (Hopping on) /Inquiry	ENGINEER	: Shinya Watanabe

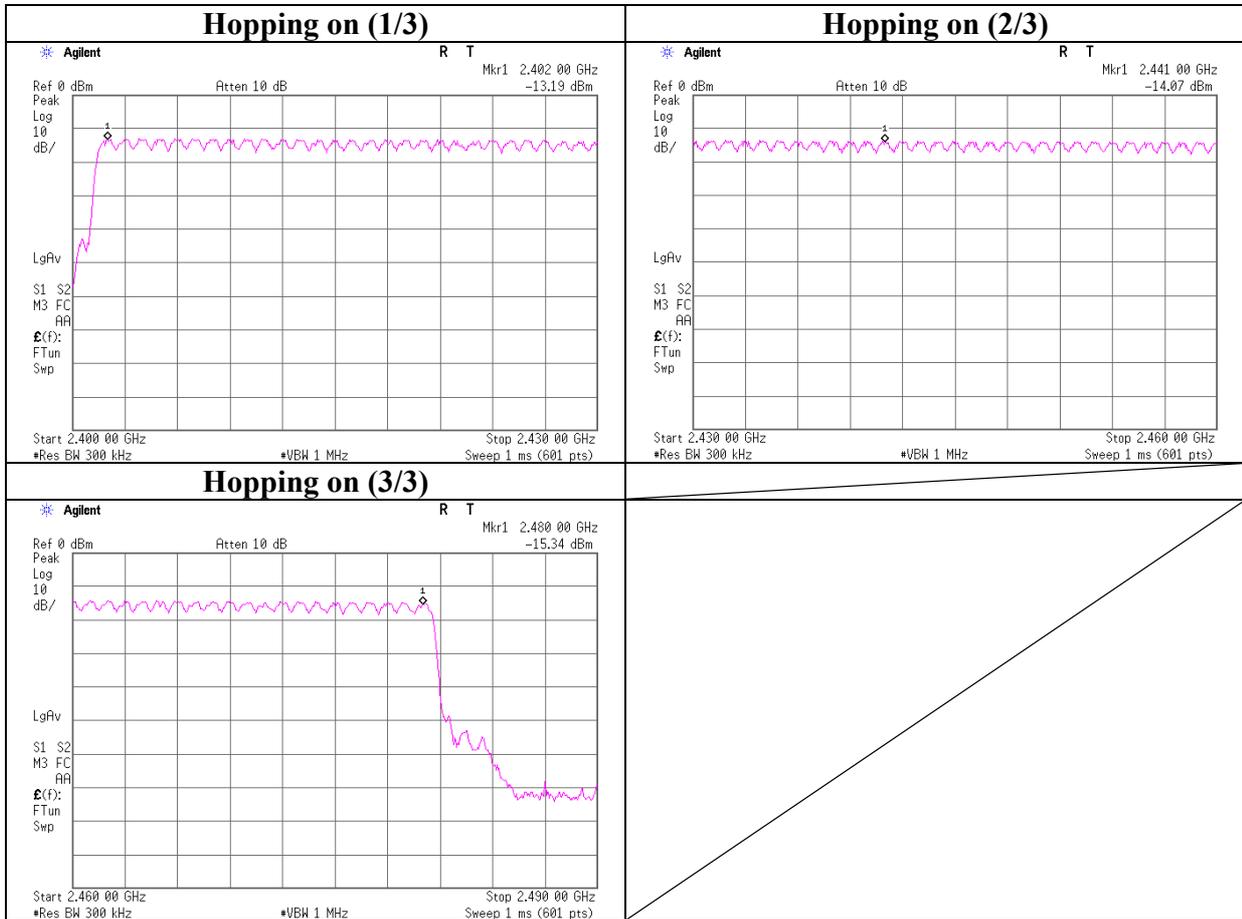
Mode	Number of channel [time]	Limit [time]
DH5	79	$\geq 15$
3DH5	79	$\geq 15$

Mode	Number of channel [time]	Limit [time]
Inquiry	32	$\geq 15$

**Number of Hopping Frequency**



**Number of Hopping Frequency (EDR)**



**Dwell time**

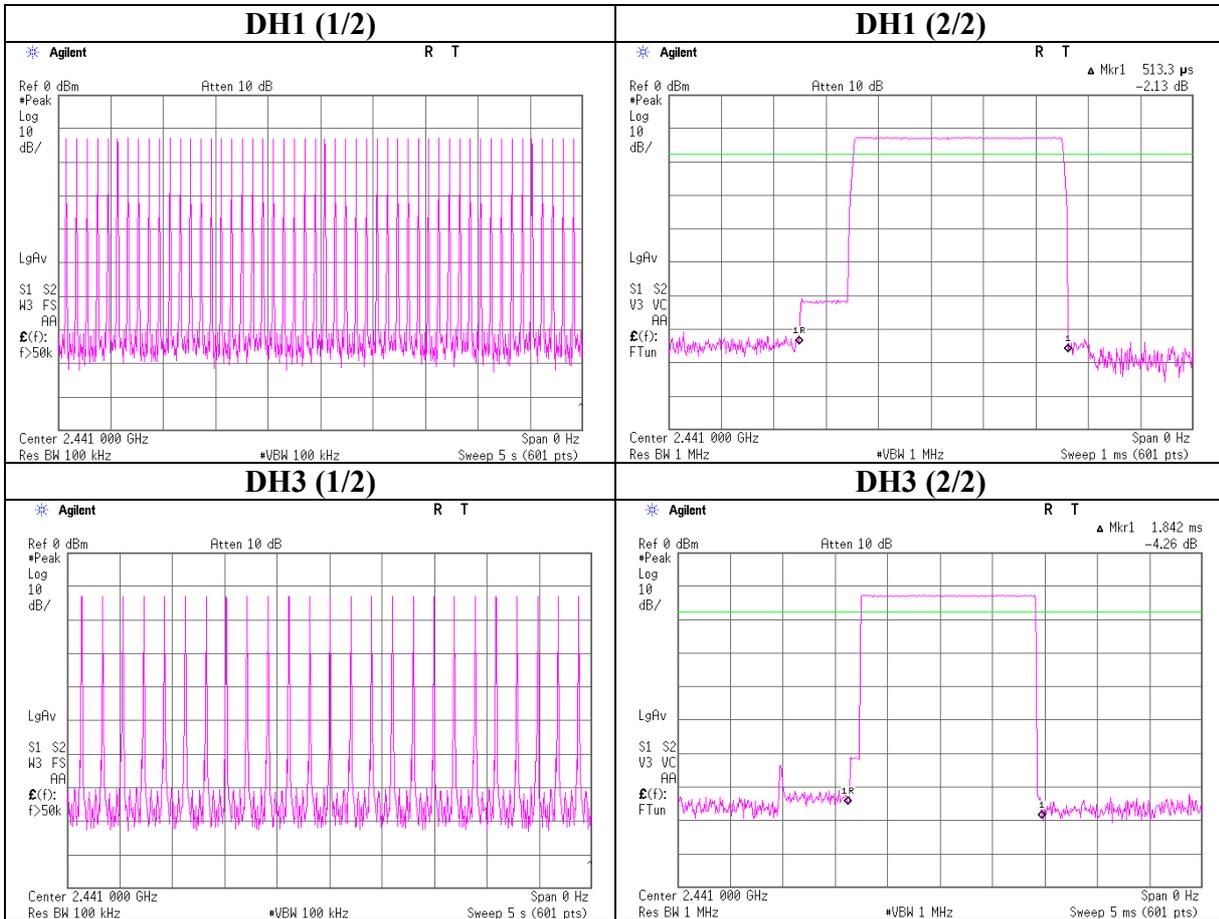
UL Japan, Inc.  
Head Office EMC Lab. No.11 Shielded Room

COMPANY	: Sony Corporation	REGULATION	: FCC15.247(a)(1)(iii)/RSS-210A8.1(d)
EQUIPMENT	: Digital Media Player	TEST DISTANCE	: -
MODEL	: NWZ-A826	DATE	: 1/7/2008
S/ N	: 0000371	TEMPERATURE	: 20deg.C
POWER	: DC3.7V(Battery)	HUMIDITY	: 46%
MODE	: Bluetooth Tx (Hopping on) /Inquiry	ENGINEER	: Shinya Watanabe

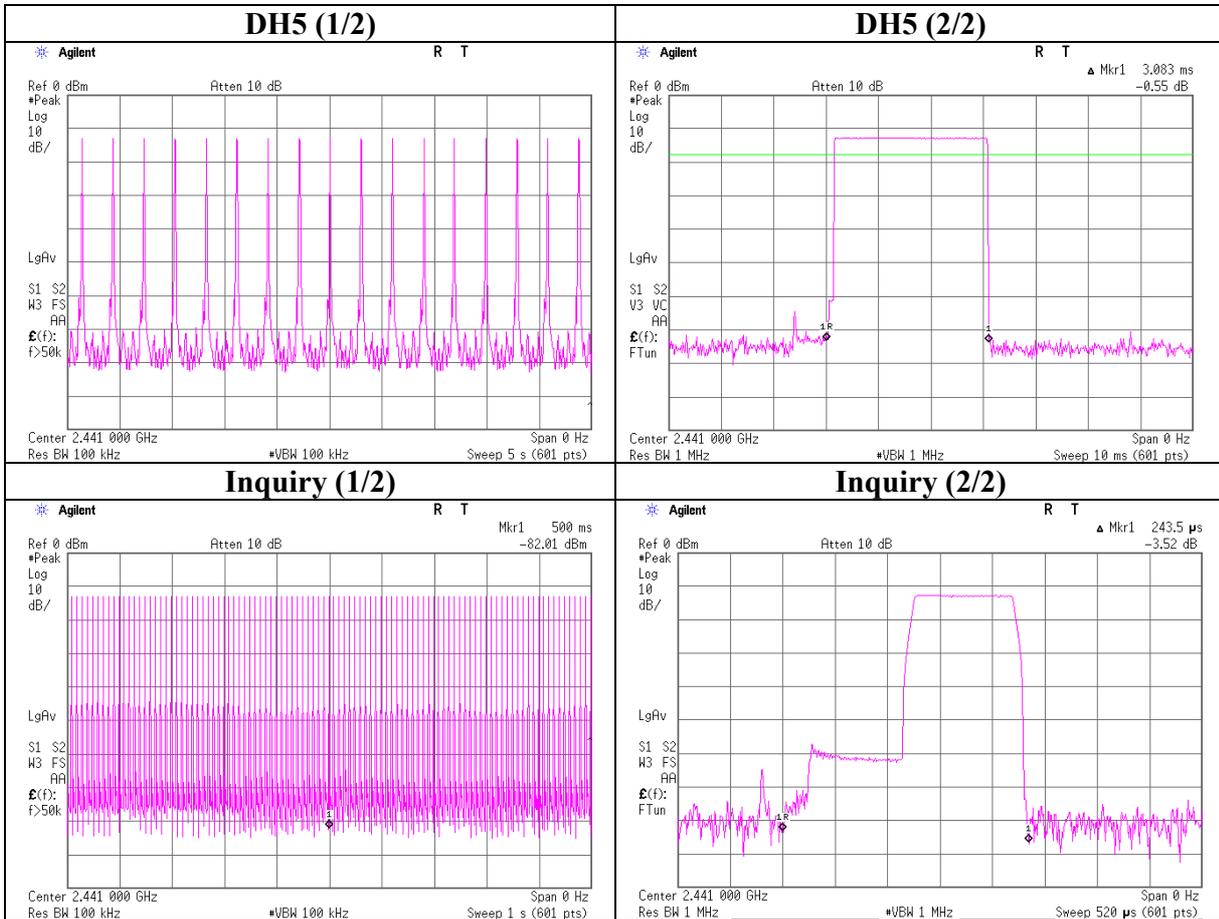
Mode	Number of transmission in a 31.6(79 Hopping x 0.4) / 12.8(32 Hopping x 0.4)second period		Length of transmission time [msec]	Result [msec]	Limit [msec]
DH1	50 times / 5 sec. x	31.6 sec. = 316 times	0.513	162	400
DH3	25 times / 5 sec. x	31.6 sec. = 158 times	1.842	291	400
DH5	17 times / 5 sec. x	31.6 sec. = 108 times	3.083	333	400
Inquiry	100 times / 1 sec. x	12.8 sec. = 1280 times	0.244	312	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	0.543	175	400
3DH3	25 times / 5 sec. x	31.6 sec. = 158 times	1.860	294	400
3DH5	17 times / 5 sec. x	31.6 sec. = 108 times	3.108	336	400

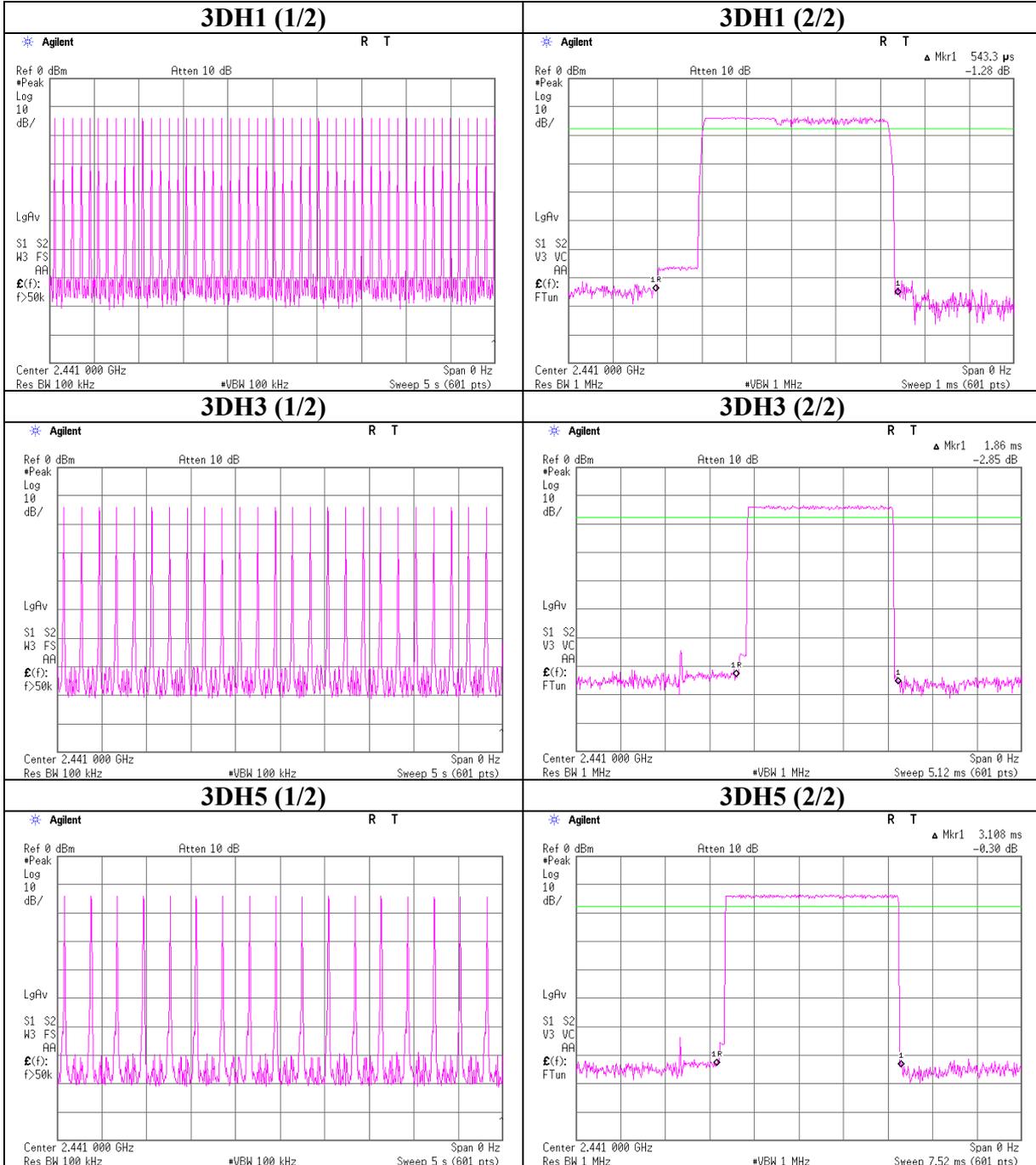
**Dwell time**



**Dwell time**



**Dwell time (EDR)**



### Maximum Peak Output Power

UL Japan, Inc.  
Head Office EMC Lab. No.11 Shielded Room

COMPANY : Sony Corporation	REGULATION : FCC15.247(b)(1)/RSS-210 A8.4(2)
EQUIPMENT : Digital Media Player	TEST DISTANCE : -
MODEL : NWZ-A826	DATE : 1/7/2008
S/N : 0000371	TEMPERATURE : 20deg.C
POWER : DC3.7V(Battery)	HUMIDITY : 46%
MODE : Bluetooth Tx(Hopping Off)/Inquiry	ENGINEER : Shinya Watanabe

DH5									
Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2402.0	-12.46	1.66	10.07	-0.73	0.85	20.97	125	21.70
Mid	2441.0	-12.66	1.67	10.07	-0.92	0.81	20.97	125	21.89
High	2480.0	-13.38	1.68	10.07	-1.63	0.69	20.97	125	22.60
Inquiry	2441.0	-12.52	1.67	10.07	-0.78	0.84	20.97	125	21.75

2DH5									
Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2402.0	-12.34	1.66	10.07	-0.61	0.87	20.97	125	21.58
Mid	2441.0	-13.05	1.67	10.07	-1.31	0.74	20.97	125	22.28
High	2480.0	-14.07	1.68	10.07	-2.32	0.59	20.97	125	23.29

3DH5									
Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2402.0	-12.25	1.66	10.07	-0.52	0.89	20.97	125	21.49
Mid	2441.0	-12.94	1.67	10.07	-1.20	0.76	20.97	125	22.17
High	2480.0	-13.94	1.68	10.07	-2.19	0.60	20.97	125	23.16

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, Ch. Low (DH5)**

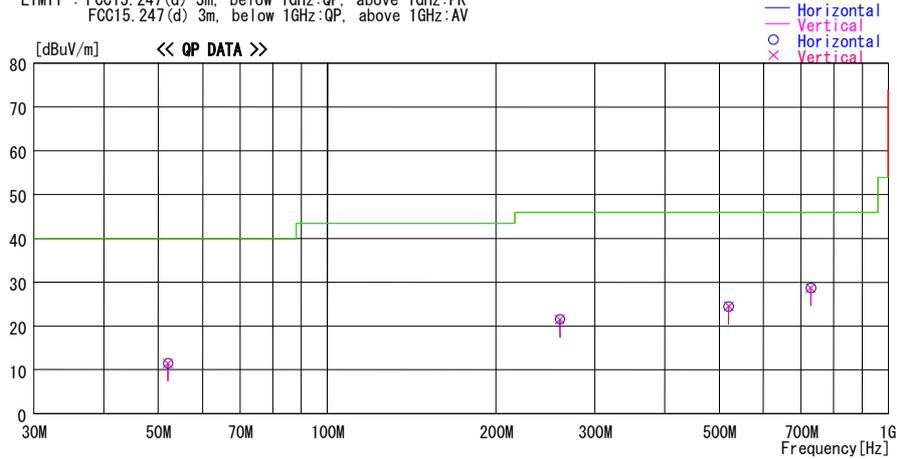
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2007/12/18

Company : Sony Corporation Report No. : 28DE0276-HO-02  
Kind of EUT : Digital Media Player Power : DC 3.7V (Battery)  
Model No. : NWZ-A826 Temp./Humi. : 18deg. C. / 31%  
Serial No. : 0000370 Operator : Takumi Shimada

Mode / Remarks : Bluetooth Tx 2402MHz DH5, Worst-axis Hor:X , Ver:Z

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



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Loss& Gain [dB]						
52.000	22.2	QP	9.8	-20.5	11.5	0	100	Hori.	40.0	28.5
52.000	22.2	QP	9.8	-20.5	11.5	0	100	Vert.	40.0	28.5
260.000	21.1	QP	17.7	-17.2	21.6	0	100	Hori.	46.0	24.4
260.000	21.0	QP	17.7	-17.2	21.5	0	100	Vert.	46.0	24.5
520.000	22.1	QP	18.6	-16.2	24.5	0	100	Hori.	46.0	21.6
520.000	22.2	QP	18.6	-16.2	24.6	0	100	Vert.	46.0	21.4
728.000	22.2	QP	21.3	-14.8	28.7	0	100	Hori.	46.0	17.3
728.000	22.2	QP	21.3	-14.8	28.7	0	100	Vert.	46.0	17.3

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, Ch. Mid (DH5)**

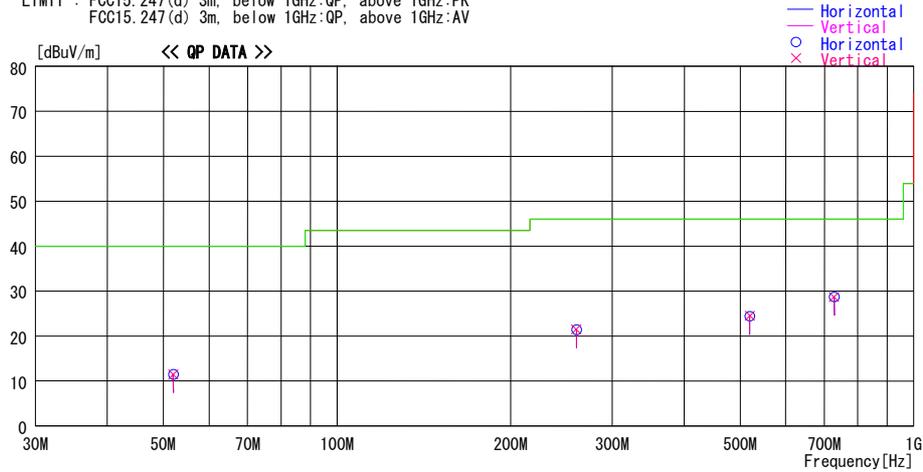
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2007/12/18

Company : Sony Corporation  
Kind of EUT : Digital Media Player  
Model No. : NWZ-A826  
Serial No. : 0000370  
Report No. : 28DE0276-HO-02  
Power : DC 3.7V (Battery)  
Temp./Humi. : 18deg. C. / 31%  
Operator : Takumi Shimada

Mode / Remarks : Bluetooth Tx 2441MHz DH5, Worst-axis Hor:X, Ver:Z

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



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Loss& Gain [dB]						
52.000	22.2	QP	9.8	-20.5	11.5	0	100	Hori.	40.0	28.5
52.000	22.2	QP	9.8	-20.5	11.5	0	100	Vert.	40.0	28.5
260.000	21.0	QP	17.7	-17.2	21.5	0	100	Vert.	46.0	24.5
260.000	21.0	QP	17.7	-17.2	21.5	0	100	Hori.	46.0	24.5
520.000	22.2	QP	18.6	-16.2	24.6	0	100	Vert.	46.0	21.4
520.000	22.1	QP	18.6	-16.2	24.5	0	100	Hori.	46.0	21.6
728.000	22.2	QP	21.3	-14.8	28.7	0	100	Hori.	46.0	17.3
728.000	22.2	QP	21.3	-14.8	28.7	0	100	Vert.	46.0	17.3

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, Ch. High (DH5)**

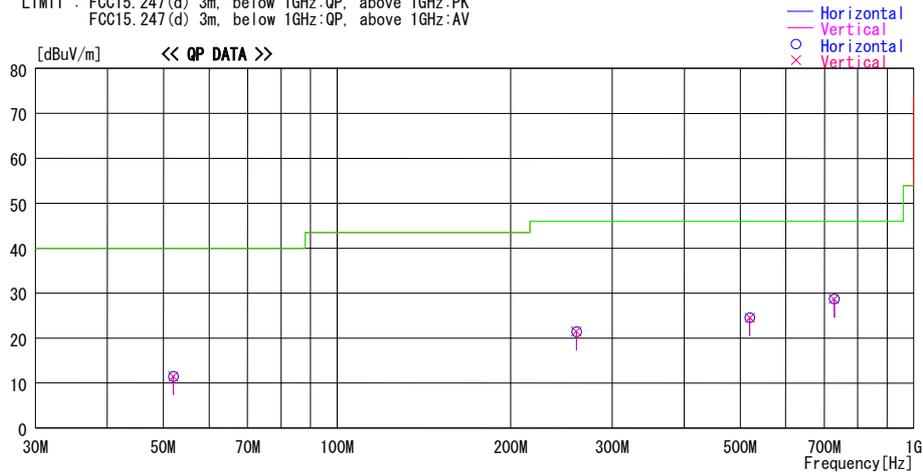
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2007/12/18

Company : Sony Corporation  
Kind of EUT : Digital Media Player  
Model No. : NWZ-A826  
Serial No. : 0000370  
Report No. : 28DE0276-HO-02  
Power : DC 3.7V (Battery)  
Temp./Humi. : 18deg. C. / 31%  
Operator : Takumi Shimada

Mode / Remarks : Bluetooth Tx 2480MHz DH5, Worst-axis Hor:X, Ver:Z

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



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Loss& Gain [dB]						
52.000	22.2	QP	9.8	-20.5	11.5	0	100	Hori.	40.0	28.5
52.000	22.2	QP	9.8	-20.5	11.5	0	100	Vert.	40.0	28.5
260.000	21.0	QP	17.7	-17.2	21.5	0	100	Hori.	46.0	24.5
260.000	21.0	QP	17.7	-17.2	21.5	0	100	Vert.	46.0	24.5
520.000	22.2	QP	18.6	-16.2	24.6	0	100	Hori.	46.0	21.4
520.000	22.2	QP	18.6	-16.2	24.6	0	100	Vert.	46.0	21.4
728.000	22.2	QP	21.3	-14.8	28.7	0	100	Hori.	46.0	17.3
728.000	22.2	QP	21.3	-14.8	28.7	0	100	Vert.	46.0	17.3

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, Ch. Low (3DH5)**

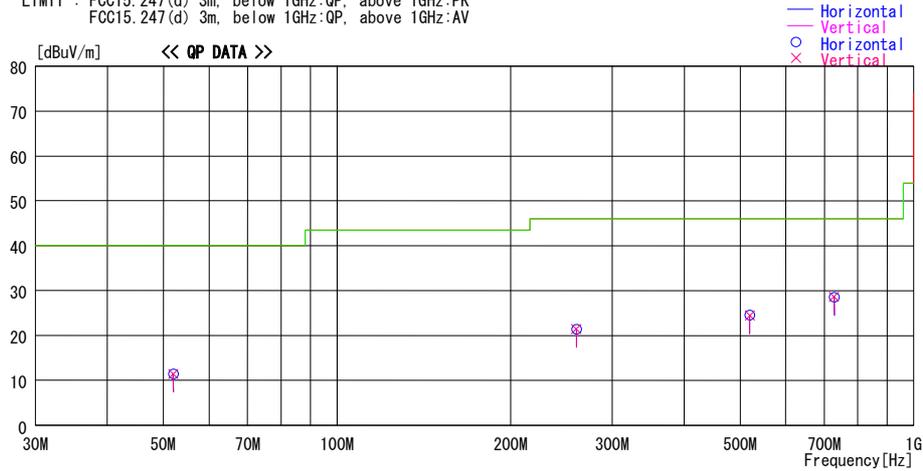
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2007/12/19

Company : Sony Corporation  
Kind of EUT : Digital Media Player  
Model No. : NWZ-A826  
Serial No. : 0000370  
Report No. : 28DE0276-HO-02  
Power : DC 3.7V (Battery)  
Temp./Humi. : 18deg.C. / 31%  
Operator : Takumi Shimada

Mode / Remarks : Bluetooth Tx 2402MHz 3DH5, Worst-axis Hor:X, Ver:Z

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



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Loss& Gain [dB]						
52.000	22.2	QP	9.8	-20.5	11.5	0	100	Hori.	40.0	28.5
52.000	22.2	QP	9.8	-20.5	11.5	0	100	Vert.	40.0	28.5
260.000	21.0	QP	17.7	-17.2	21.5	0	100	Hori.	46.0	24.5
260.000	21.0	QP	17.7	-17.2	21.5	0	100	Vert.	46.0	24.5
520.000	22.2	QP	18.6	-16.2	24.6	0	100	Hori.	46.0	21.4
520.000	22.1	QP	18.6	-16.2	24.5	0	100	Vert.	46.0	21.6
728.000	22.1	QP	21.3	-14.8	28.6	0	100	Hori.	46.0	17.5
728.000	22.2	QP	21.3	-14.8	28.7	0	100	Vert.	46.0	17.3

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, Ch. Mid (3DH5)**

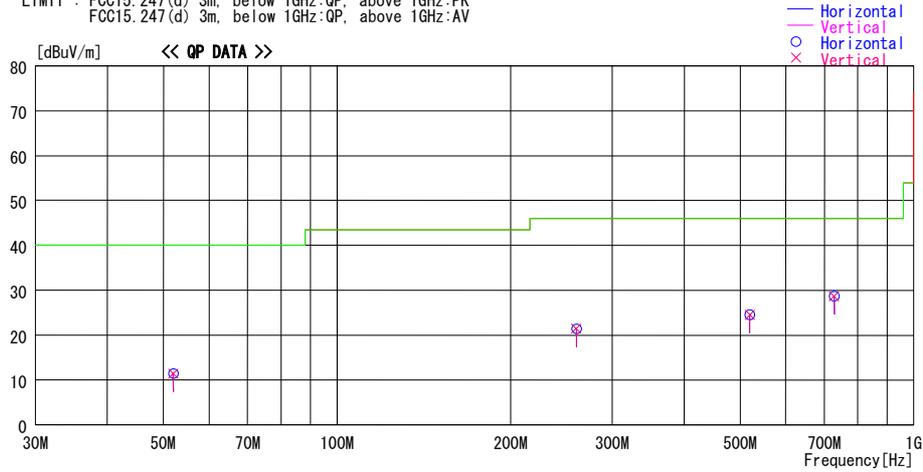
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2007/12/19

Company : Sony Corporation  
Kind of EUT : Digital Media Player  
Model No. : NWZ-A826  
Serial No. : 0000370  
Report No. : 28DE0276-HO-02  
Power : DC 3.7V (Battery)  
Temp./Humi. : 18deg.C. / 31%  
Operator : Takumi Shimada

Mode / Remarks : Bluetooth Tx 2441MHz 3DH5, Worst-axis Hor:X, Ver:Z

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



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Loss& Gain [dB]						
52.000	22.2	QP	9.8	-20.5	11.5	0	100	Vert.	40.0	28.5
52.000	22.2	QP	9.8	-20.5	11.5	0	100	Hori.	40.0	28.5
260.000	21.0	QP	17.7	-17.2	21.5	0	100	Hori.	46.0	24.5
260.000	21.0	QP	17.7	-17.2	21.5	0	100	Vert.	46.0	24.5
520.000	22.2	QP	18.6	-16.2	24.6	0	100	Hori.	46.0	21.4
520.000	22.2	QP	18.6	-16.2	24.6	0	100	Vert.	46.0	21.4
728.000	22.2	QP	21.3	-14.8	28.7	0	100	Hori.	46.0	17.3
728.000	22.2	QP	21.3	-14.8	28.7	0	100	Vert.	46.0	17.3

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, Ch. High (3DH5)**

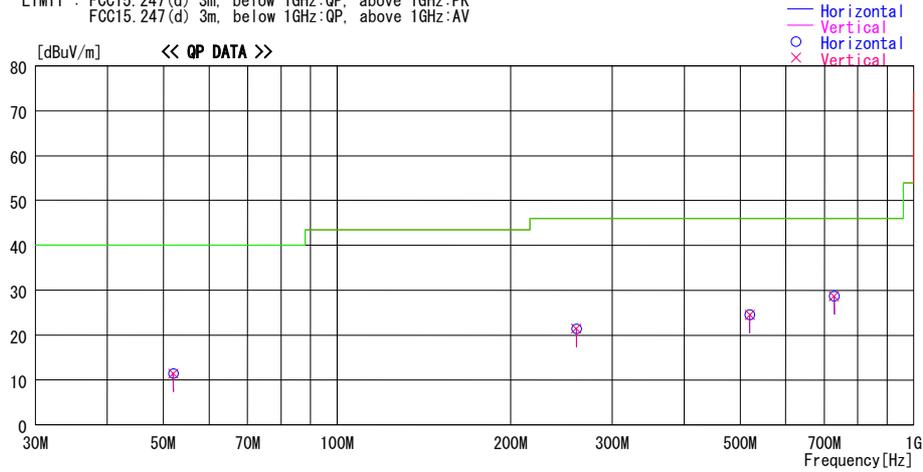
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2007/12/19

Company : Sony Corporation  
Kind of EUT : Digital Media Player  
Model No. : NWZ-A826  
Serial No. : 0000370  
Report No. : 28DE0276-HO-02  
Power : DC 3.7V (Battery)  
Temp./Humi. : 18deg.C. / 31%  
Operator : Takumi Shimada

Mode / Remarks : Bluetooth Tx 2480MHz 3DH5, Worst-axis Hor:X, Ver:Z

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



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Loss& Gain [dB]						
52.000	22.2	QP	9.8	-20.5	11.5	0	100	Hori.	40.0	28.5
52.000	22.2	QP	9.8	-20.5	11.5	0	100	Vert.	40.0	28.5
260.000	21.0	QP	17.7	-17.2	21.5	0	100	Vert.	46.0	24.5
260.000	21.0	QP	17.7	-17.2	21.5	0	100	Hori.	46.0	24.5
520.000	22.2	QP	18.6	-16.2	24.6	0	100	Vert.	46.0	21.4
520.000	22.2	QP	18.6	-16.2	24.6	0	100	Hori.	46.0	21.4
728.000	22.2	QP	21.3	-14.8	28.7	0	100	Hori.	46.0	17.3
728.000	22.2	QP	21.3	-14.8	28.7	0	100	Vert.	46.0	17.3

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)**  
**Rx, Ch. Mid**

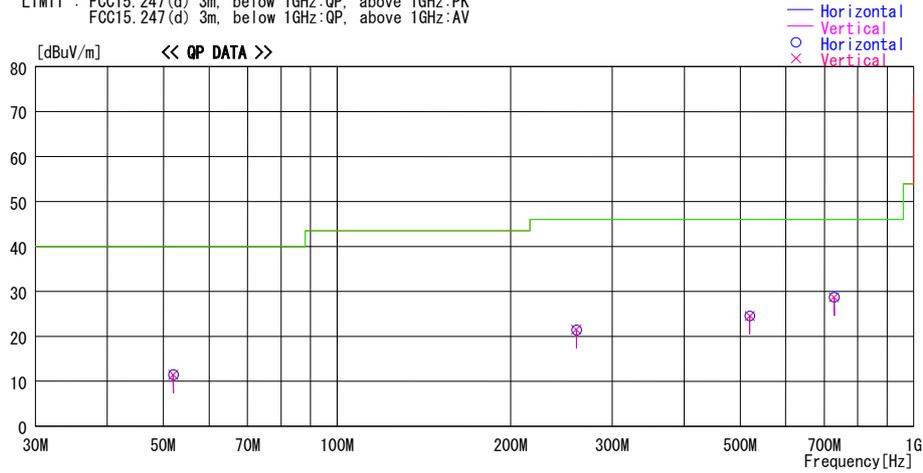
**DATA OF RADIATED EMISSION TEST**

UL Japan, Inc. Head Office EMC Lab. No.1 Semi Anechoic Chamber  
Date : 2007/12/19

Company : Sony Corporation  
Kind of EUT : Digital Media Player  
Model No. : NWZ-A826  
Serial No. : 0000370  
Report No. : 28DE0276-HO-02  
Power : DC 3.7V (Battery)  
Temp./Humi. : 18deg.C. / 31%  
Operator : Takumi Shimada

Mode / Remarks : Bluetooth Rx 2441MHz, Worst-axis Hor:X, Ver:Z

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



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level	Angle	Height	Polar.	Limit	Margin
			Factor	Gain						
			[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]
52.000	22.2	QP	9.8	-20.5	11.5	0	100	Hori.	40.0	28.5
52.000	22.2	QP	9.8	-20.5	11.5	0	100	Vert.	40.0	28.5
260.000	21.0	QP	17.7	-17.2	21.5	0	100	Hori.	46.0	24.5
260.000	21.0	QP	17.7	-17.2	21.5	0	100	Vert.	46.0	24.5
520.000	22.2	QP	18.6	-16.2	24.6	0	100	Hori.	46.0	21.4
520.000	22.2	QP	18.6	-16.2	24.6	0	100	Vert.	46.0	21.4
728.000	22.2	QP	21.3	-14.8	28.7	0	100	Vert.	46.0	17.3
728.000	22.2	QP	21.3	-14.8	28.7	0	100	Hori.	46.0	17.3

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 (above 1GHz)**  
**Tx, Ch. Low (DH5)**

Company : Sony Corporation  
Equipment : Digital Media Player  
Model : NWZ-A826  
S/N : 0000370  
Power : DC3.7V(Battery)  
Mode : Bluetooth Transmitting, DH5  
Position : H: X-axis, V: Z-axis

UL Japan, Inc.  
Head Office EMC Lab. No.1 and No.3 Semi Anechoic Chamber  
Regulation : FCC15.247(d) / RSS-210 A8.5  
Test Distance : 3m / 1m  
Date : 12/16/2007  
Temperature : 23deg.C.  
Humidity : 40%  
Engineer : Hisayoshi Sato  
Tested frequency bands : 1-10GHz  
Lob. No. : No.3

12/19/2007  
24deg.C.  
26%  
Takumi Shimada  
10-26.5GHz  
No.1

**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]	Dwell Factor [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	1602.0	50.6	49.2	26.0	32.5	2.3	0.0	-	46.4	45.0	73.9	27.5	28.9
2	2390.0	40.6	40.5	27.3	31.5	3.0	0.0	-	39.4	39.3	73.9	34.5	34.6
3*	2400.0	69.1	66.3	27.3	31.5	3.0	0.0	-	67.9	65.1	73.9	-	-
4	4804.0	52.8	53.4	31.5	30.8	4.3	0.8	-	58.6	59.2	73.9	15.3	14.7
5	7206.0	41.2	38.2	35.8	31.3	4.9	0.7	-	51.3	48.3	73.9	22.6	25.6
6	9608.0	39.5	40.9	38.2	31.9	5.9	1.1	-	52.8	54.2	73.9	21.1	19.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac													
7	12010.0	NS	NS	-	-	-	-	-	-	-	-	-	-
8	14412.0	NS	NS	-	-	-	-	-	-	-	-	-	-
9	16814.0	NS	NS	-	-	-	-	-	-	-	-	-	-
10	19216.0	NS	NS	-	-	-	-	-	-	-	-	-	-
11	21618.0	NS	NS	-	-	-	-	-	-	-	-	-	-
12	24020.0	48.9	48.6	40.6	35.8	8.8	0.0	-	53.0	52.7	73.9	20.9	21.2

**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]	Dwell Factor [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 + Dwell Factor													
1	1602.0	48.7	47.2	26.0	32.5	2.3	0.0	-	44.5	43.0	53.9	9.4	10.9
2	2390.0	31.4	31.1	27.3	31.5	3.0	0.0	-	30.2	29.9	53.9	23.7	24.0
3*	2400.0	59.0	56.7	27.3	31.5	3.0	0.0	-30.2	27.6	25.3	53.9	-	-
4	4804.0	46.3	47.1	31.5	30.8	4.3	0.8	-30.2	21.9	22.7	53.9	32.0	31.2
5	7206.0	30.0	29.9	35.8	31.3	4.9	0.7	-30.2	9.9	9.8	53.9	44.0	44.1
6	9608.0	30.6	31.1	38.2	31.9	5.9	1.1	-30.2	13.7	14.2	53.9	40.2	39.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac + Dwell Factor													
7	12010.0	NS	NS	-	-	-	-	-	-	-	-	-	-
8	14412.0	NS	NS	-	-	-	-	-	-	-	-	-	-
9	16814.0	NS	NS	-	-	-	-	-	-	-	-	-	-
10	19216.0	NS	NS	-	-	-	-	-	-	-	-	-	-
11	21618.0	NS	NS	-	-	-	-	-	-	-	-	-	-
12	24020.0	34.9	34.9	40.6	35.8	8.8	0.0	-30.2	8.8	8.8	53.9	45.1	45.1

\* 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	95.1	93.0	27.3	31.5	3.0	0.0	-	93.9	91.8	-	-	-
3	2400.0	46.0	43.6	27.3	31.5	3.0	0.0	-	44.8	42.4	Funda-20dB	29.1	29.4

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 limit is rounded down to the second decimal place.

\*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

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

\*Dwell time factor = 20log ( Dwell time / 100ms ) = 20log ( 3.083\*10<sup>-3</sup> / 100\*10<sup>-3</sup> ) = -30.2 dB

\*NS:Non signal

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

Company	: Sony Corporation	UL Japan, Inc.	
Equipment	: Digital Media Player	Head Office EMC Lab. No.1 and No.3 Semi Anechoic Chamber	
Model	: NWZ-A826	Regulation	: FCC15.247(d) / RSS-210 A8.5
S/N	: 0000370	Test Distance	: 3m / 1m
Power	: DC3.7V(Battery)	Date	: 12/16/2007 12/19/2007
Mode	: Bluetooth Transmitting, DH5	Temperature	: 23deg.C. 24deg.C.
Position	: H: X-axis, V: Z-axis	Humidity	: 40% 26%
		Engineer	: Hisayoshi Sato Takumi Shimada
		Tested frequency bands	: 1-10GHz 10-26.5GHz
		Lob. No.	: No.3 No.1

**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]	Dwell Factor [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER						HOR	VER		HOR	VER
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>													
1	1628.0	50.3	49.1	26.1	32.4	2.3	0.0	-	46.3	45.1	73.9	27.6	28.8
2	4882.0	49.2	48.6	31.7	30.7	4.3	0.8	-	55.3	54.7	73.9	18.6	19.2
3	7323.0	40.8	39.5	35.9	31.3	5.0	0.7	-	51.1	49.8	73.9	22.8	24.1
4	9764.0	41.8	42.8	38.2	32.1	5.9	1.2	-	55.0	56.0	73.9	18.9	17.9
<b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>													
5	12205.0	NS	NS	-	-	-	-	-	-	-	-	-	-
6	14646.0	NS	NS	-	-	-	-	-	-	-	-	-	-
7	17087.0	NS	NS	-	-	-	-	-	-	-	-	-	-
8	19528.0	NS	NS	-	-	-	-	-	-	-	-	-	-
9	21969.0	NS	NS	-	-	-	-	-	-	-	-	-	-
10	24410.0	46.6	46.2	40.7	35.5	8.9	0.0	-	51.2	50.8	73.9	22.7	23.1

**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]	Dwell Factor [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER						HOR	VER		HOR	VER
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss + Dwell Factor</b>													
1	1628.0	47.9	45.2	26.1	32.4	2.3	0.0	-	43.9	41.2	53.9	10.0	12.7
2	4882.0	43.0	41.6	31.7	30.7	4.3	0.8	-30.2	18.9	17.5	53.9	35.0	36.4
3	7323.0	30.3	30.0	35.9	31.3	5.0	0.7	-30.2	10.4	10.1	53.9	43.5	43.8
4	9764.0	31.5	31.5	38.2	32.1	5.9	1.2	-30.2	14.5	14.5	53.9	39.4	39.4
<b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac + Dwell Factor</b>													
5	12205.0	NS	NS	-	-	-	-	-	-	-	-	-	-
6	14646.0	NS	NS	-	-	-	-	-	-	-	-	-	-
7	17087.0	NS	NS	-	-	-	-	-	-	-	-	-	-
8	19528.0	NS	NS	-	-	-	-	-	-	-	-	-	-
9	21969.0	NS	NS	-	-	-	-	-	-	-	-	-	-
10	24410.0	32.3	32.3	40.7	35.5	8.9	0.0	-30.2	6.7	6.7	53.9	47.2	47.2

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 limit is rounded down to one decimal place.

\*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

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

\*Dwell time factor = 20log ( Dwell time / 100ms ) = 20log ( 3.083\*10<sup>-3</sup> / 100\*10<sup>-3</sup> ) = -30.2 dB

\*NS:Non signal

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

Company	: Sony Corporation	UL Japan, Inc.	
Equipment	: Digital Media Player	Head Office EMC Lab. No.1 and No.3 Semi Anechoic Chamber	
Model	: NWZ-A826	Regulation	: FCC15.247(d) / RSS-210 A8.5
S/N	: 0000370	Test Distance	: 3m / 1m
Power	: DC3.7V(Battery)	Date	: 12/16/2007 12/19/2007
Mode	: Bluetooth Transmitting, DH5	Temperature	: 23deg.C. 24deg.C.
Position	: H: X-axis, V: Z-axis	Humidity	: 40% 26%
		Engineer	: Hisayoshi Sato Takumi Shimada
		Tested frequency bands	: 1-10GHz 10-26.5GHz
		Lob. No.	: No.3 No.1

**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]	Dwell Factor [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	1654.0	48.4	47.5	26.1	32.4	2.4	0.0	-	44.5	43.6	73.9	29.4	30.3
2	2483.5	54.7	50.8	27.4	31.5	3.1	0.0	-	53.7	49.8	73.9	20.2	24.1
3	4960.0	47.7	48.9	31.8	30.7	4.4	0.8	-	54.0	55.2	73.9	19.9	18.7
4	7440.0	40.0	38.6	36.1	31.3	5.1	0.7	-	50.6	49.2	73.9	23.3	24.7
5	9920.0	41.2	40.3	38.2	32.2	5.9	0.5	-	53.6	52.7	73.9	20.3	21.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac													
6	12400.0	NS	NS	-	-	-	-	-	-	-	-	-	-
7	14880.0	NS	NS	-	-	-	-	-	-	-	-	-	-
8	17360.0	NS	NS	-	-	-	-	-	-	-	-	-	-
9	19840.0	NS	NS	-	-	-	-	-	-	-	-	-	-
10	22320.0	NS	NS	-	-	-	-	-	-	-	-	-	-
11	24800.0	45.9	45.8	40.8	35.2	8.9	0.0	-	50.9	50.8	73.9	23.0	23.1

**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]	Dwell Factor [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 + Dwell Factor													
1	1654.0	47.5	44.9	26.1	32.4	2.4	0.0	-	43.6	41.0	53.9	10.3	12.9
2	2483.5	47.7	44.0	27.4	31.5	3.1	0.0	-30.2	16.5	12.8	53.9	37.4	41.1
3	4960.0	41.1	42.3	31.8	30.7	4.4	0.8	-30.2	17.2	18.4	53.9	36.7	35.5
4	7440.0	30.1	30.2	36.1	31.3	5.1	0.7	-30.2	10.5	10.6	53.9	43.4	43.3
5	9920.0	31.4	31.4	38.2	32.2	5.9	0.5	-30.2	13.6	13.6	53.9	40.3	40.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac + Dwell Factor													
6	12400.0	NS	NS	-	-	-	-	-	-	-	-	-	-
7	14880.0	NS	NS	-	-	-	-	-	-	-	-	-	-
8	17360.0	NS	NS	-	-	-	-	-	-	-	-	-	-
9	19840.0	NS	NS	-	-	-	-	-	-	-	-	-	-
10	22320.0	NS	NS	-	-	-	-	-	-	-	-	-	-
11	24800.0	32.3	32.2	40.8	35.2	8.9	0.0	-30.2	7.1	7.0	53.9	46.8	46.9

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 limit is rounded down to one decimal place.

\*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

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

\*Dwell time factor = 20log ( Dwell time / 100ms ) = 20log ( 3.083\*10-3 / 100\*10-3 ) = -30.2 dB

\*NS:Non signal

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

UL Japan, Inc.  
Head Office EMC Lab. No.1 and No.3 Semi Anechoic Chamber

Company : Sony Corporation  
Equipment : Digital Media Player  
Model : NWZ-A826  
S/N : 0000370  
Power : DC3.7V(Battery)  
Mode : Bluetooth Transmitting, 3DH5  
Position : H: X-axis, V: Z-axis

Regulation : FCC15.247(d) / RSS-210 A8.5  
Test Distance : 3m / 1m  
Date : 12/16/2007 12/19/2007  
Temperature : 23deg.C. 24deg.C.  
Humidity : 40% 26%  
Engineer : Hisayoshi Sato Takumi Shimada  
Tested frequency bands : 1-10GHz 10-26.5GHz  
Lob. No. : No.3 No.1

**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]	Dwell Factor [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	1601.9	52.8	48.2	26.0	32.5	2.3	0.0	-	48.6	44.0	73.9	25.3	29.9
2	2390.0	41.2	40.4	27.3	31.5	3.0	0.0	-	40.0	39.2	73.9	33.9	34.7
3*	2400.0	73.8	71.7	27.3	31.5	3.0	0.0	-	72.6	70.5	73.9	-	-
4	4804.0	45.4	44.2	31.5	30.8	4.3	0.8	-	51.2	50.0	73.9	22.7	23.9
5	7206.0	38.3	38.6	35.8	31.3	4.9	0.7	-	48.4	48.7	73.9	25.5	25.2
6	9608.0	40.2	39.7	38.2	31.9	5.9	1.1	-	53.5	53.0	73.9	20.4	20.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac													
7	12010.0	NS	NS	-	-	-	-	-	-	-	-	-	-
8	14412.0	NS	NS	-	-	-	-	-	-	-	-	-	-
9	16814.0	NS	NS	-	-	-	-	-	-	-	-	-	-
10	19216.0	NS	NS	-	-	-	-	-	-	-	-	-	-
11	21618.0	NS	NS	-	-	-	-	-	-	-	-	-	-
12	24020.0	49.4	49.5	40.6	35.8	8.8	0.0	-	53.5	53.6	73.9	20.4	20.3

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	Dwell Factor [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 + Dwell Factor													
1	1601.9	51.0	46.7	26.0	32.5	2.3	0.0	-	46.8	42.5	53.9	7.1	11.4
2	2390.0	32.2	31.1	27.3	31.5	3.0	0.0	-	31.0	29.9	53.9	22.9	24.0
3*	2400.0	60.5	58.6	27.3	31.5	3.0	0.0	-30.2	29.1	27.2	53.9	-	-
4	4804.0	35.6	33.0	31.5	30.8	4.3	0.8	-30.2	11.2	8.6	53.9	42.7	45.3
5	7206.0	30.0	30.1	35.8	31.3	4.9	0.7	-30.2	9.9	10.0	53.9	44.0	43.9
6	9608.0	31.4	31.4	38.2	31.9	5.9	1.1	-30.2	14.5	14.5	53.9	39.4	39.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac + Dwell Factor													
7	12010.0	NS	NS	-	-	-	-	-	-	-	-	-	-
8	14412.0	NS	NS	-	-	-	-	-	-	-	-	-	-
9	16814.0	NS	NS	-	-	-	-	-	-	-	-	-	-
10	19216.0	NS	NS	-	-	-	-	-	-	-	-	-	-
11	21618.0	NS	NS	-	-	-	-	-	-	-	-	-	-
12	24020.0	34.9	34.9	40.6	35.8	8.8	0.0	-30.2	8.8	8.8	53.9	45.1	45.1

\*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	95.1	93.0	27.1	32.3	3.3	0.0	-	93.2	91.1	-	-	-
3	2400.0	46.0	43.6	27.1	32.3	3.3	0.0	-	44.1	41.7	Funda-20dB	29.1	29.4

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 limit is rounded down to the second decimal place.

\*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

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

\*Dwell time factor = 20log ( Dwell time / 100ms ) = 20log ( 3.108\*10<sup>-3</sup> / 100\*10<sup>-3</sup> ) = -30.2 dB

\*NS:Non signal

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

Company	: Sony Corporation	UL Japan, Inc.	
Equipment	: Digital Media Player	Head Office EMC Lab. No.1 and No.3 Semi Anechoic Chamber	
Model	: NWZ-A826	Regulation	: FCC15.247(d) / RSS-210 A8.5
S/N	: 0000370	Test Distance	: 3m / 1m
Power	: DC3.7V(Battery)	Date	: 12/16/2007 12/19/2007
Mode	: Bluetooth Transmitting, 3DH5	Temperature	: 23deg.C. 24deg.C.
Position	: H: X-axis, V: Z-axis	Humidity	: 40% 26%
		Engineer	: Hisayoshi Sato Takumi Shimada
		Tested frequency bands	: 1-10GHz 10-26.5GHz
		Lob. No.	: No.3 No.1

**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]	Dwell Factor [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER						HOR	VER		HOR	VER
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss</b>													
1	1627.9	50.1	49.3	26.1	32.4	2.3	0.0	-	46.1	45.3	73.9	27.8	28.6
2	4882.0	38.3	39.0	31.7	30.7	4.3	0.8	-	44.4	45.1	73.9	29.5	28.8
3	7323.0	39.1	39.2	35.9	31.3	5.0	0.7	-	49.4	49.5	73.9	24.5	24.4
4	9764.0	39.7	39.5	38.2	32.1	5.9	1.2	-	52.9	52.7	73.9	21.0	21.2
<b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac</b>													
5	12205.0	NS	NS	-	-	-	-	-	-	-	-	-	-
6	14646.0	NS	NS	-	-	-	-	-	-	-	-	-	-
7	17087.0	NS	NS	-	-	-	-	-	-	-	-	-	-
8	19528.0	NS	NS	-	-	-	-	-	-	-	-	-	-
9	21969.0	NS	NS	-	-	-	-	-	-	-	-	-	-
10	24410.0	48.8	48.5	40.7	35.5	8.9	0.0	-	53.4	53.1	73.9	20.5	20.8

**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]	Dwell Factor [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER						HOR	VER		HOR	VER
<b>Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss + Dwell Factor</b>													
1	1627.9	47.5	45.3	26.1	32.4	2.3	0.0	-	43.5	41.3	53.9	10.4	12.6
2	4882.0	29.5	30.0	31.7	30.7	4.3	0.8	-30.2	5.4	5.9	53.9	48.5	48.0
3	7323.0	29.6	29.8	35.9	31.3	5.0	0.7	-30.2	9.7	9.9	53.9	44.2	44.0
4	9764.0	31.5	31.5	38.2	32.1	5.9	1.2	-30.2	14.5	14.5	53.9	39.4	39.4
<b>Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac + Dwell Factor</b>													
5	12205.0	NS	NS	-	-	-	-	-	-	-	-	-	-
6	14646.0	NS	NS	-	-	-	-	-	-	-	-	-	-
7	17087.0	NS	NS	-	-	-	-	-	-	-	-	-	-
8	19528.0	NS	NS	-	-	-	-	-	-	-	-	-	-
9	21969.0	NS	NS	-	-	-	-	-	-	-	-	-	-
10	24410.0	34.7	34.7	40.7	35.5	8.9	0.0	-30.2	9.1	9.1	53.9	44.8	44.8

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 limit is rounded down to one decimal place.

\*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

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

\*Dwell time factor = 20log ( Dwell time / 100ms ) = 20log ( 3.108\*10<sup>-3</sup> / 100\*10<sup>-3</sup> ) = -30.2 dB

\*NS:Non signal

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

Company	: Sony Corporation	UL Japan, Inc.	
Equipment	: Digital Media Player	Head Office EMC Lab. No.1 and No.3 Semi Anechoic Chamber	
Model	: NWZ-A826	Regulation	: FCC15.247(d) / RSS-210 A8.5
S/N	: 0000370	Test Distance	: 3m / 1m
Power	: DC3.7V(Battery)	Date	: 12/16/2007 12/19/2007
Mode	: Bluetooth Transmitting, 3DH5	Temperature	: 23deg.C. 24deg.C.
Position	: H: X-axis, V: Z-axis	Humidity	: 40% 26%
		Engineer	: Hisayoshi Sato Takumi Shimada
		Tested frequency bands	: 1-10GHz 10-26.5GHz
		Lob. No.	: No.3 No.1

**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]	Dwell Factor [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	1654.0	48.5	4.7	26.1	32.4	2.4	0.0	-	44.6	0.8	73.9	29.3	73.1
2	2483.5	57.8	52.0	27.4	31.5	3.1	0.0	-	56.8	51.0	73.9	17.1	22.9
3	4960.0	37.4	37.3	31.8	30.7	4.4	0.8	-	43.7	43.6	73.9	30.2	30.3
4	7440.0	40.1	38.8	36.1	31.3	5.1	0.7	-	50.7	49.4	73.9	23.2	24.5
5	9920.0	41.3	40.4	38.2	32.2	5.9	1.2	-	54.4	53.5	73.9	19.5	20.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac													
6	12400.0	NS	NS	-	-	-	-	-	-	-	-	-	-
7	14880.0	NS	NS	-	-	-	-	-	-	-	-	-	-
8	17360.0	NS	NS	-	-	-	-	-	-	-	-	-	-
9	19840.0	NS	NS	-	-	-	-	-	-	-	-	-	-
10	22320.0	NS	NS	-	-	-	-	-	-	-	-	-	-
11	24800.0	48.2	49.0	40.8	35.2	8.9	0.0	-	53.2	54.0	73.9	20.7	19.9

**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]	Dwell Factor [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 + Dwell Factor													
1	1654.0	45.6	41.0	26.1	32.4	2.4	0.0	-	41.7	37.1	53.9	12.2	16.8
2	2483.5	45.6	41.6	27.4	31.5	3.1	0.0	-30.2	14.4	10.4	53.9	39.5	43.5
3	4960.0	28.4	28.4	31.8	30.7	4.4	0.8	-30.2	4.5	4.5	53.9	49.4	49.4
4	7440.0	30.2	30.3	36.1	31.3	5.1	0.7	-30.2	10.6	10.7	53.9	43.3	43.2
5	9920.0	31.5	31.6	38.2	32.2	5.9	1.2	-30.2	14.4	14.5	53.9	39.5	39.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac + Dwell Factor													
6	12400.0	NS	NS	-	-	-	-	-	-	-	-	-	-
7	14880.0	NS	NS	-	-	-	-	-	-	-	-	-	-
8	17360.0	NS	NS	-	-	-	-	-	-	-	-	-	-
9	19840.0	NS	NS	-	-	-	-	-	-	-	-	-	-
10	22320.0	NS	NS	-	-	-	-	-	-	-	-	-	-
11	24800.0	34.9	34.9	40.8	35.2	8.9	0.0	-30.2	9.7	9.7	53.9	44.2	44.2

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 limit is rounded down to one decimal place.  
\*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.  
\*Hi-Pass Filter was not used for factor 0.0dB of the above table.  
\*Dwell time factor = 20log ( Dwell time / 100ms ) = 20log ( 3.108\*10<sup>-3</sup> / 100\*10<sup>-3</sup> ) = -30.2 dB  
\*NS:Non signal

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

UL Japan, Inc.

Head Office EMC Lab. No.3 Semi Anechoic Chamber

Company : Sony Corporation  
Equipment : Digital Media Player  
Model : NWZ-A826  
S/N : 0000370  
Power : DC3.7V(Battery)  
Mode : Bluetooth Receiving  
Position : H: X-axis, V: Z-axis

Regulation : FCC15.247(d) / RSS-210 A8.5  
Test Distance : 3m / 1m  
Date : 12/16/2007  
Temperature : 23deg.C.  
Humidity : 40%  
Engineer : Hisayoshi Sato

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

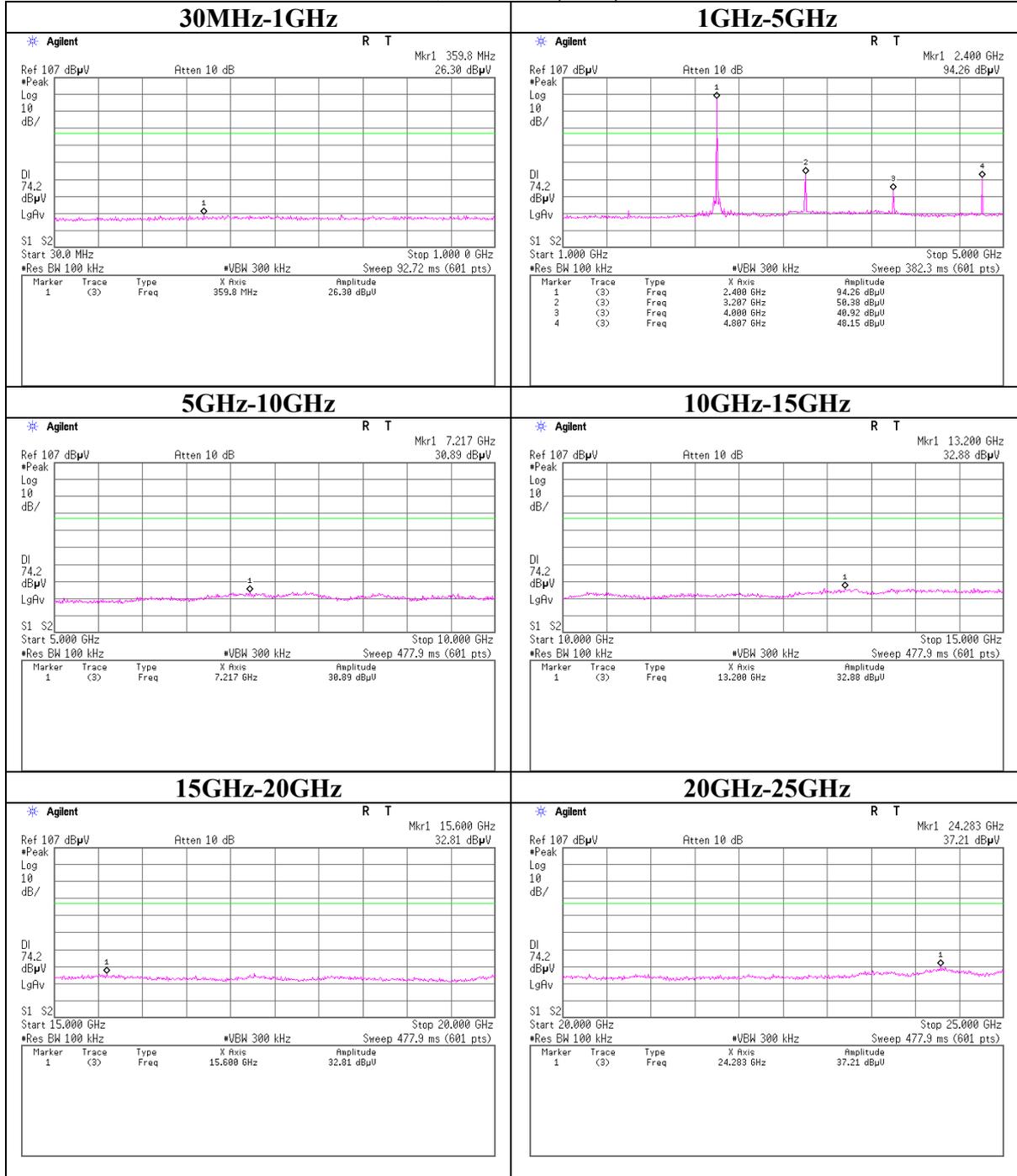
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	Dwell Factor [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER						HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss													
1	1627.9	51.2	49.3	26.1	32.4	2.3	0.0	-	47.2	45.3	73.9	26.7	28.6
2	2439.5	45.8	44.8	27.4	31.5	3.1	0.0	-	44.8	43.8	73.9	29.1	30.1
3	2441.0	37.2	40.6	27.4	31.5	3.1	0.0	-	36.2	39.6	73.9	37.7	34.3
4	4882.0	36.0	38.4	31.7	30.7	3.9	0.0	-	40.9	43.3	73.9	33.0	30.6
5	7323.0	38.3	39.1	35.9	31.3	4.6	0.0	-	47.5	48.3	73.9	26.4	25.6

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

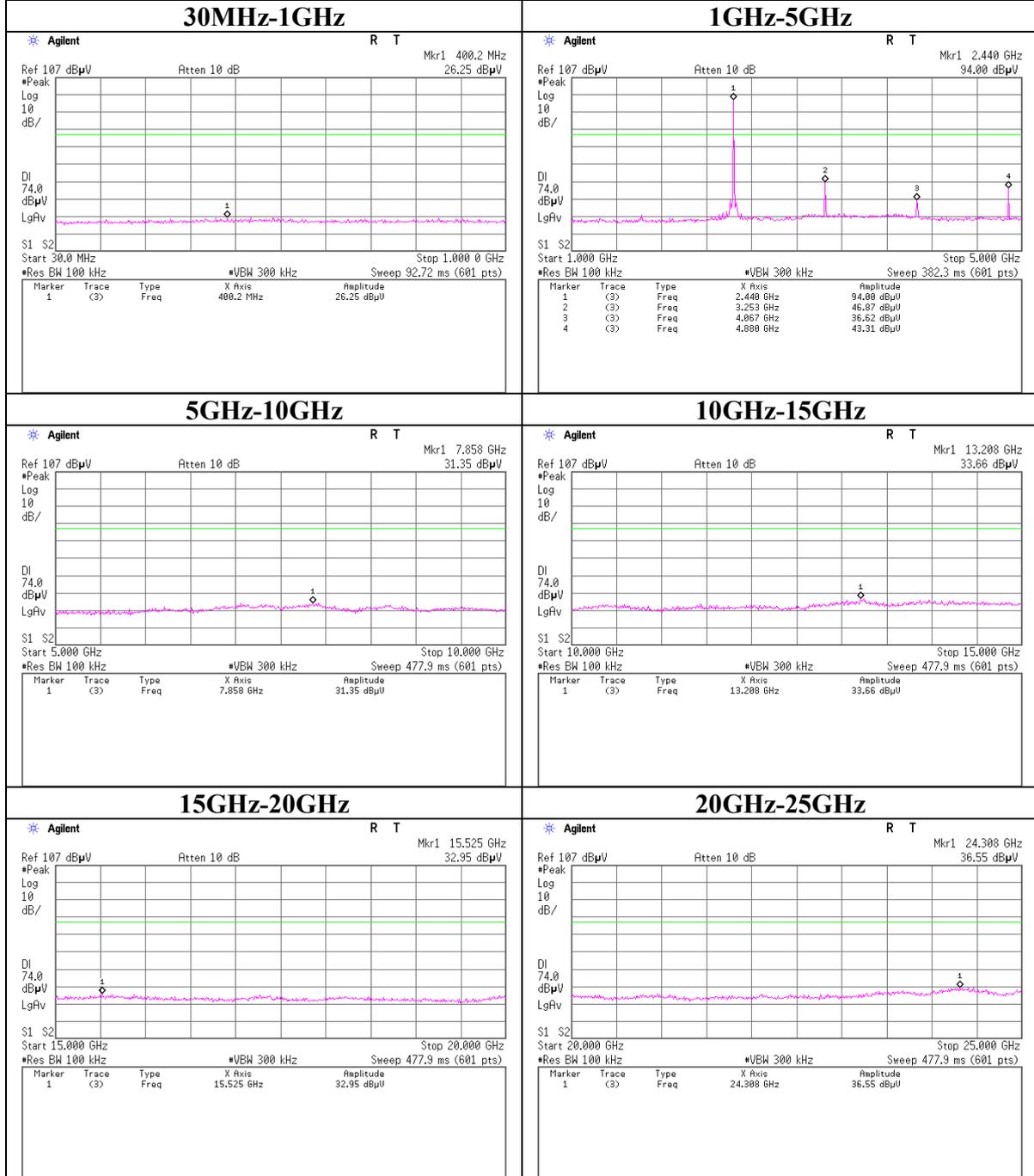
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	Dwell Factor [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER						HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss + Dwell Factor													
1	1627.9	49.4	45.4	26.1	32.4	2.3	0.0	-	45.4	41.4	53.9	8.5	12.5
2	2439.5	41.9	38.0	27.4	31.5	3.1	0.0	-	40.9	37.0	53.9	13.0	16.9
3	2441.0	30.5	29.7	27.4	31.5	3.1	0.0	-	29.5	28.7	53.9	24.4	25.2
4	4882.0	28.9	28.9	31.7	30.7	3.9	0.0	-	33.8	33.8	53.9	20.1	20.1
5	7323.0	29.7	29.7	35.9	31.3	4.6	0.0	-	38.9	38.9	53.9	15.0	15.0

\*Except for the above table : All other spurious emissions were less than 20dB for the limit.  
\*The limit is rounded down to one decimal place.  
\*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.  
\*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

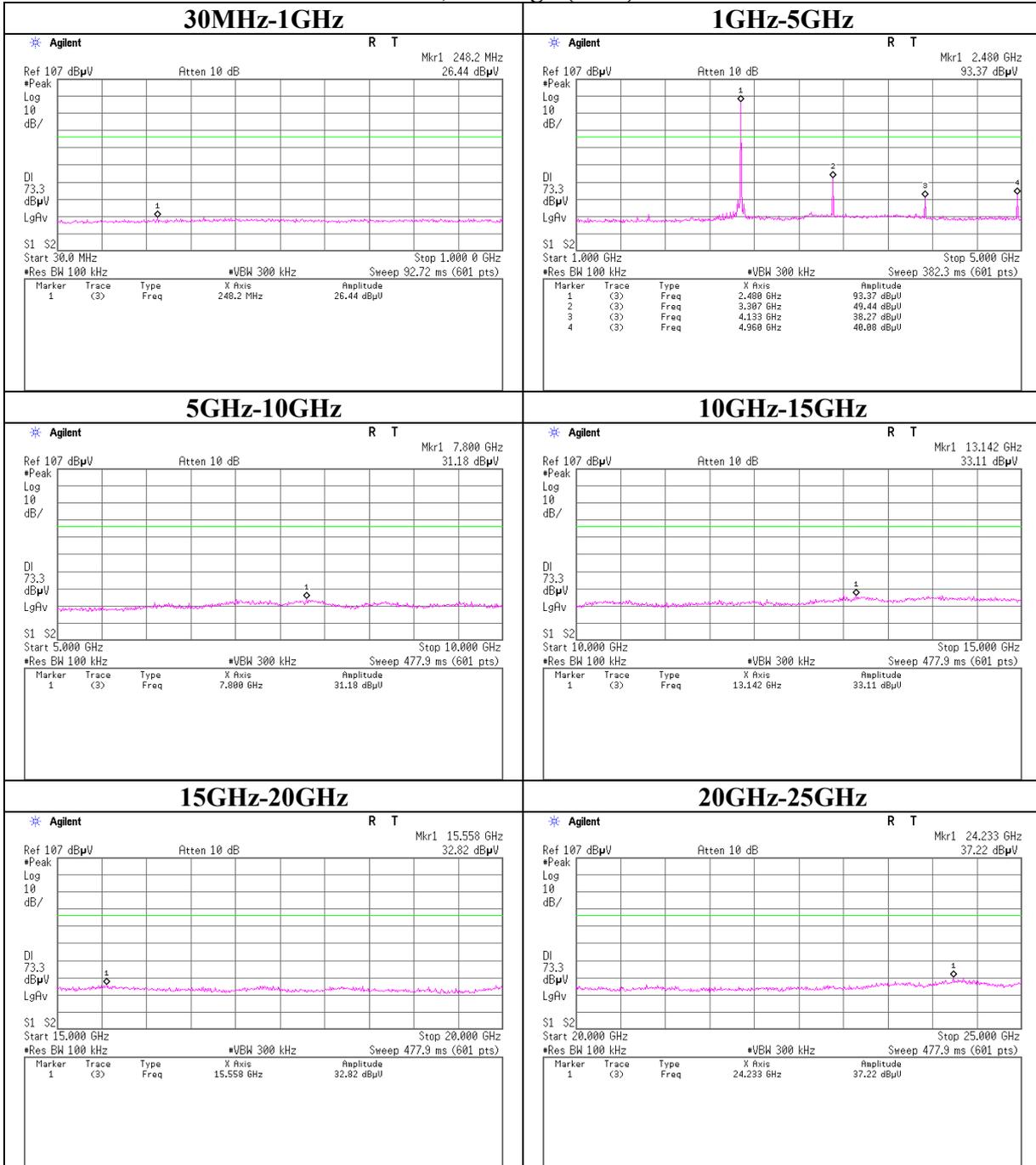
**Conducted Spurious Emission**  
**Tx, Ch. Low (DH5)**



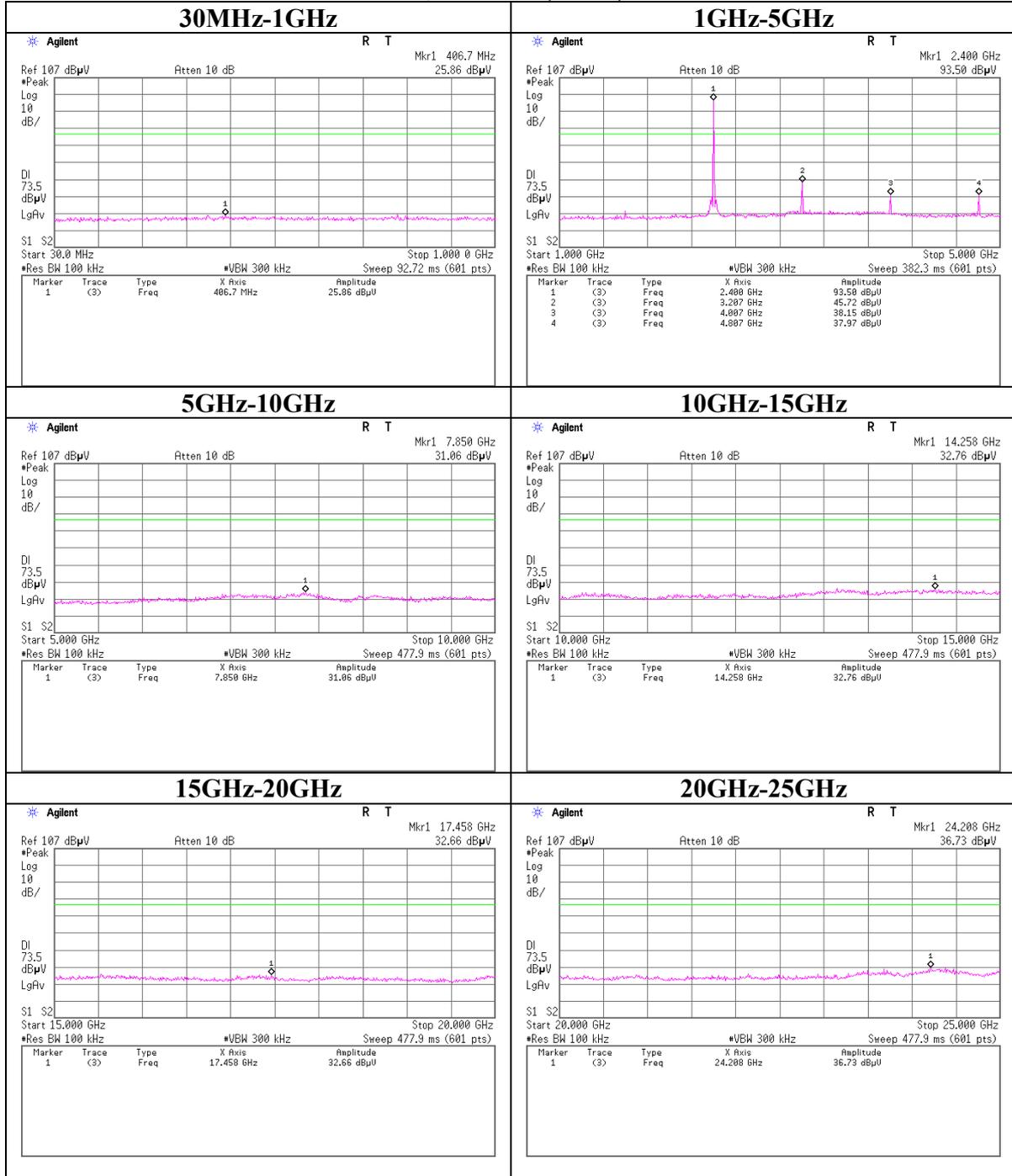
**Conducted Spurious Emission**  
**Tx, Ch. Mid (DH5)**



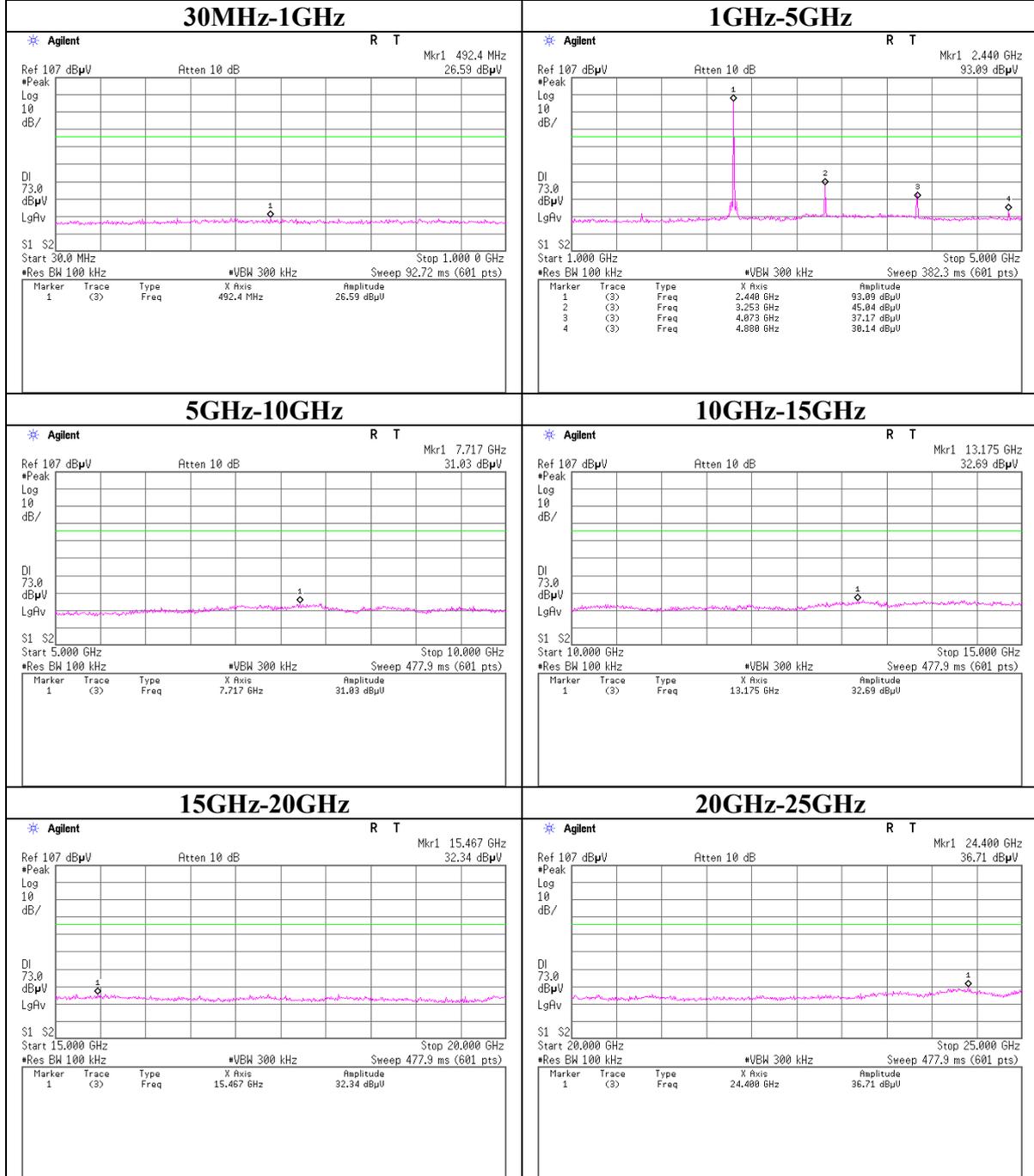
**Conducted Spurious Emission**  
**Tx, Ch. High (DH5)**



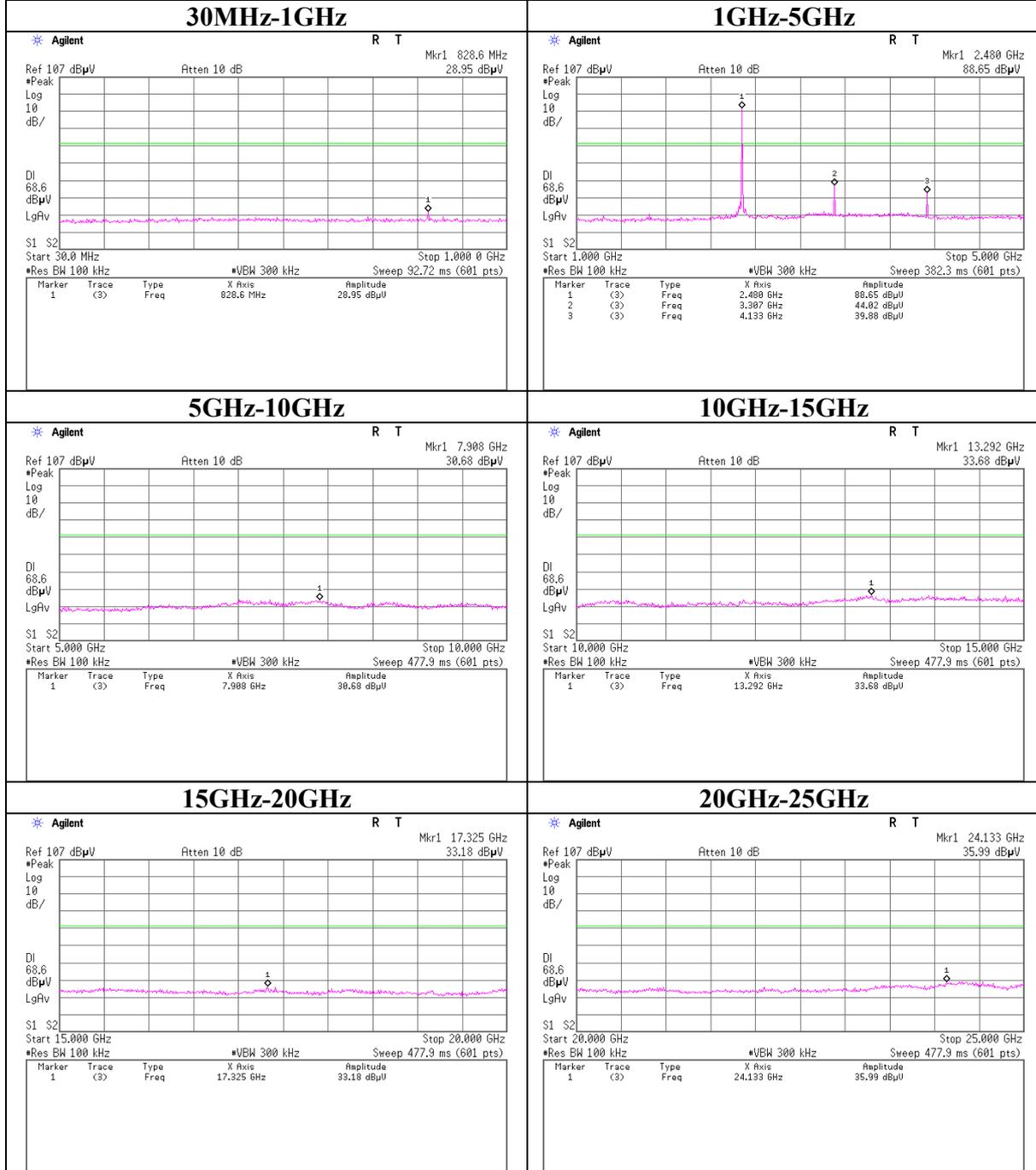
**Conducted Spurious Emission (EDR)**  
**Tx, Ch. Low (3DH5)**



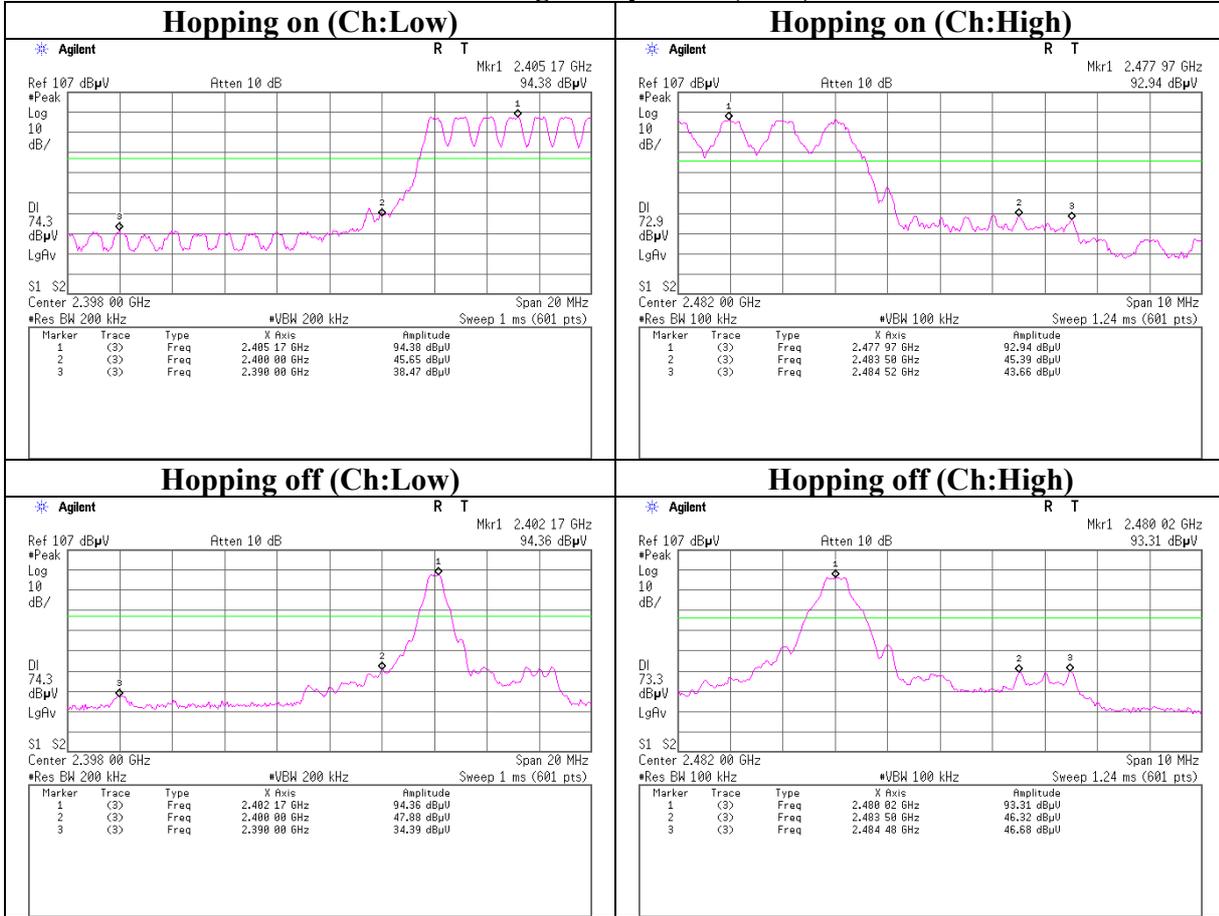
**Conducted Spurious Emission (EDR)**  
**Tx, Ch. Mid (3DH5)**



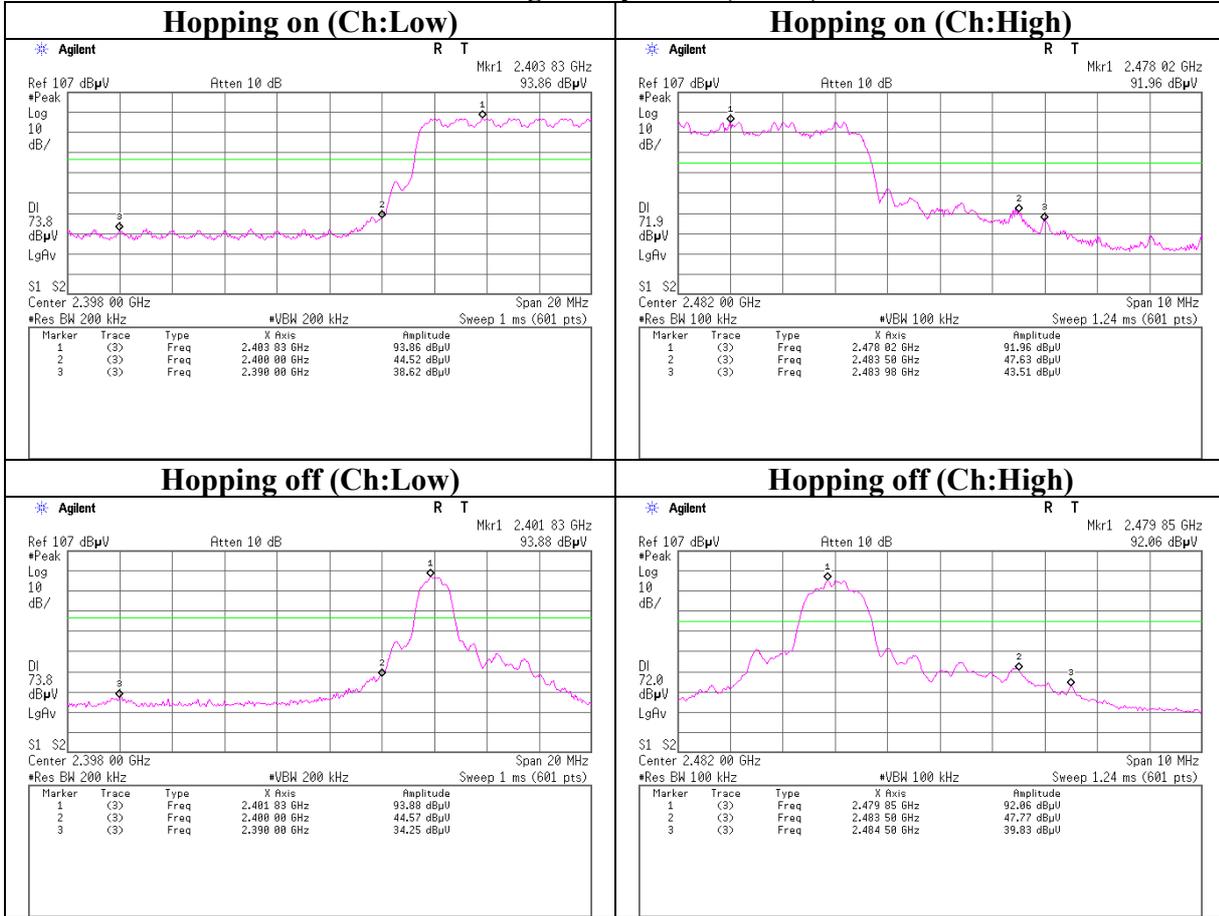
**Conducted Spurious Emission (EDR)**  
**Tx, Ch. High (3DH5)**



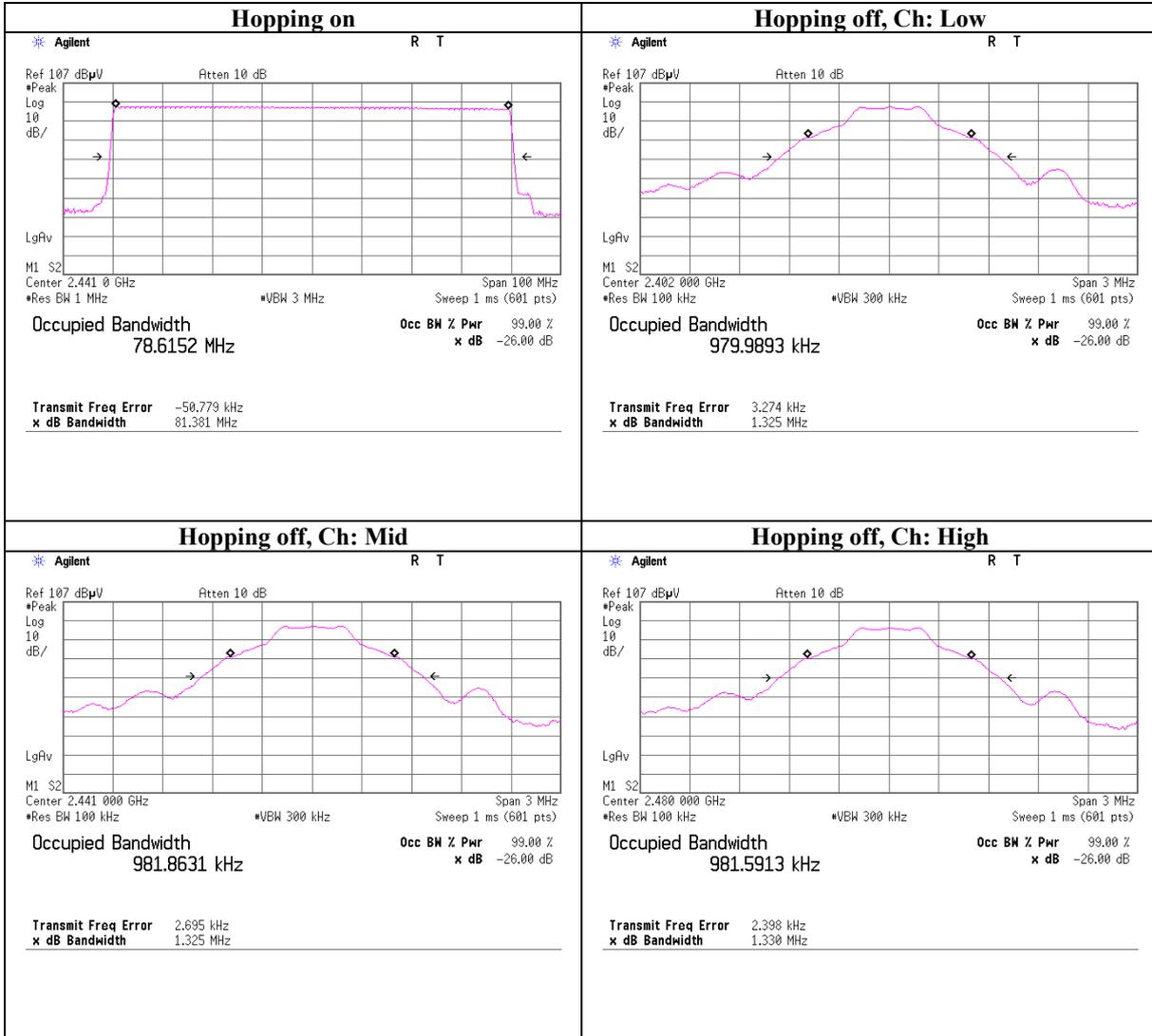
**Conducted Spurious Emission**  
**Band Edge compliance (DH5)**



**Conducted Spurious Emission (EDR)**  
**Band Edge compliance (3DH5)**

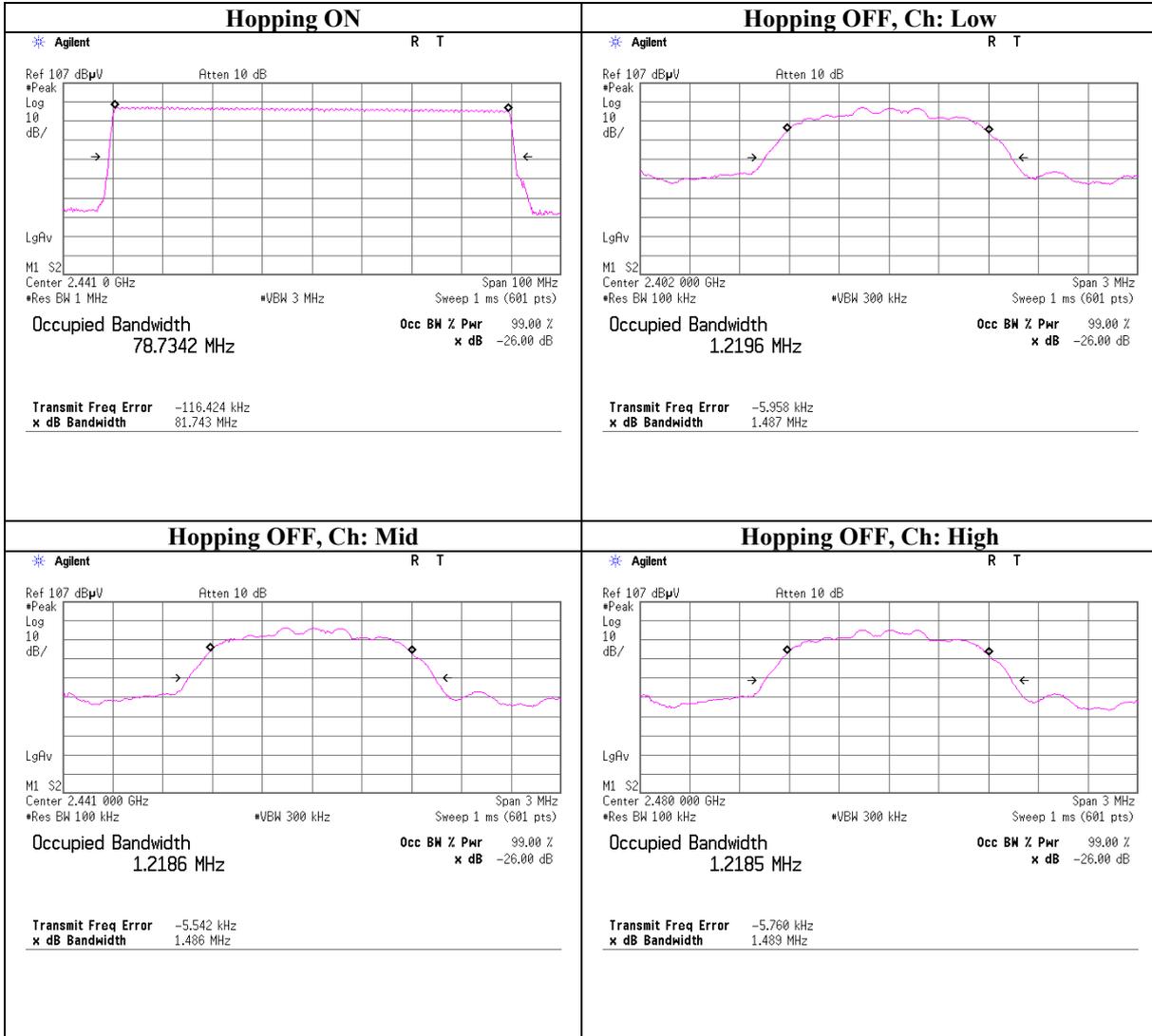


**99% Occupied Bandwidth**



\*Refer to 20dB Bandwidth for 99% Occupied Bandwidth, inquiry mode

**99% Occupied Bandwidth(EDR)**



\*Refer to 20dB Bandwidth for 99% Occupied Bandwidth, inquiry mode

### **APPENDIX 3:Test instruments**

#### **EMI test equipment(1/2)**

<b>Control No.</b>	<b>Instrument</b>	<b>Manufacturer</b>	<b>Model No</b>	<b>Test Item</b>	<b>Calibration Date * Interval(month)</b>
MAEC-03	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE	2007/03/05 * 12
MSA-09	Spectrum Analyzer	Advantest	R3273	RE	2007/12/21 * 12
MOS-12	Thermo-Hygrometer	Custom	CTH-180	RE	2006/01/19 * 24
MBM-07	Barometer	SATO	Aneroid(7610-20)	RE	2006/06/02 * 36
MHA-20	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2007/04/14 * 12
MCC-56	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2007/03/29 * 12
MPA-11	MicroWave System Amplifier	Agilent	83017A	RE	2007/03/02 * 12
MCC-25	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2007/08/27 * 12
MHF-19	High Pass Filter 3.5-18.0GHz	TOKIMEC	TF323DCA	RE	2007/12/10 * 12
MOS-19	Thermo-Hygrometer	Custom	CTH-201	AT	2007/12/05 * 12
MSA-10	Spectrum Analyzer	Agilent	E4448A	AT	2007/07/04 * 12
MCC-66	Microwave Cable 1G-40GHz	Schner	SUCOFLEX102	AT	2007/04/03 * 12
MAT-20	Attenuator(10dB)(above 1GHz)	HIROSE ELECTRIC CO.,LTD.	AT-110	AT	2007/01/11 * 12
MPM-09	Power Meter	Anritsu	ML2495A	AT	2007/09/22 * 12
MPSE-12	Power sensor	Anritsu	MA2411B	AT	2007/09/22 * 12
MAEC-01	Anechoic Chamber	TDK	Semi Anechoic Chamber 10m	RE	2007/11/23 * 12
MBA-01	Biconical Antenna	Schwarzbeck	BBA9106	RE	2007/10/21 * 12
MLA-09	Logperiodic Antenna	Schwarzbeck	USLP9143B	RE	2007/01/19 * 12
MCC-01	Coaxial Cable 0.1-3000MHz	Suhner/storm/Agilent /TSJ	-	RE	2007/12/27 * 12
MAT-06	Attenuator(6dB)	Weinschel Corp	2	RE	2007/11/14 * 12
MPA-04	Pre Amplifier	Agilent	8447D	RE	2007/07/11 * 12
MJM-01	Measure	KDS	ES19-55	RE	-
MOS-01	Digital Humidity Indicator	N.T	NT-1800	RE	2007/11/12 * 12
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE	-
MTR-01	Test Receiver	Rohde & Schwarz	ESI40	RE	2007/10/19 * 12

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**EMI test equipment(2/2)**

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MHA-05	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2007/01/30 * 12
MHA-01	Horn Antenna 18-26.5G	EMCO	3160-09	RE	2007/01/30 * 12
MCC-15	Microwave Cable 1G-26.5GHz 1m	Suhner	SUCOFLEX 104	RE	2007/02/22 * 12
MCC-18	Microwave Cable 1G-26.5GHz 5m	Suhner	SUCOFLEX 104	RE	2007/02/22 * 12
MPA-01	Pre Amplifier	Agilent	8449B	RE	2007/02/15 * 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.

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

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