

APPENDIX 2: Data of EMI test

Conducted Emission
Ch: Low

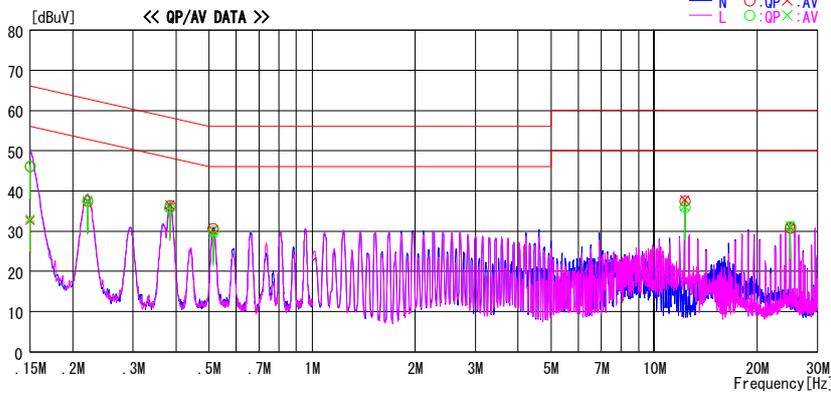
DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/12/16 15:01:18

Company : Sony EMCS Corp. Saitama TEC
Kind of EUT : DVD Receiver
Model No. : HCD-DH7BT
Serial No. : 1
Report No. : 27EE0056-H0
Power : AC 120V / 60Hz
Temp./Humi. : 23deg. C / 39%
Operator : Norihisa Hashimoto

Mode / Remarks : Transmitting 2402MHz

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210
FCC15C § 15.207 (AV) / RSS-Gen / RSS-210



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]	
0.15000	45.7	32.3	0.3	46.0	32.6	66.0	56.0	20.0	23.4	N
0.22072	37.0	37.0	0.4	37.4	37.4	62.8	52.8	25.4	15.4	N
0.38440	35.9	36.1	0.4	36.3	36.5	58.2	48.2	21.9	11.7	N
0.51362	30.2	29.8	0.4	30.6	30.2	56.0	46.0	25.4	15.8	N
12.28813	35.9	36.2	1.6	37.5	37.8	60.0	50.0	22.5	12.2	N
24.96022	28.5	28.6	2.3	30.8	30.9	60.0	50.0	29.2	19.1	N
0.15000	45.9	32.8	0.3	46.2	33.1	66.0	56.0	19.8	22.9	L
0.22072	37.2	37.3	0.4	37.6	37.7	62.8	52.8	25.2	15.1	L
0.38425	35.3	35.5	0.4	35.7	35.9	58.2	48.2	22.5	12.3	L
0.51446	29.6	29.0	0.4	30.0	29.4	56.0	46.0	26.0	16.6	L
12.28831	34.3	34.4	1.6	35.9	36.0	60.0	50.0	24.1	14.0	L
24.96038	28.8	29.0	2.3	31.1	31.3	60.0	50.0	28.9	18.7	L

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

Conducted Emission
Ch: Mid

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
 Date : 2006/12/16 15:40:05

Company	: Sony EMCS Corp. Saitama TEC	Report No.	: 27EE0056-HO
Kind of EUT	: DVD Receiver	Power	: AC 120V / 60Hz
Model No.	: HCD-DH7BT	Temp./Humi.	: 23deg. C / 39%
Serial No.	: 1	Operator	: Norihisa Hashimoto

Mode / Remarks : Transmitting 2441MHz

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210
 FCC15C § 15.207 (AV) / RSS-Gen / RSS-210

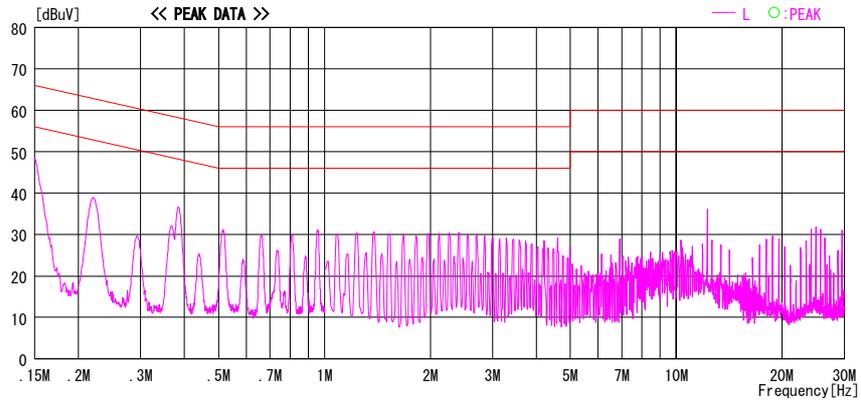
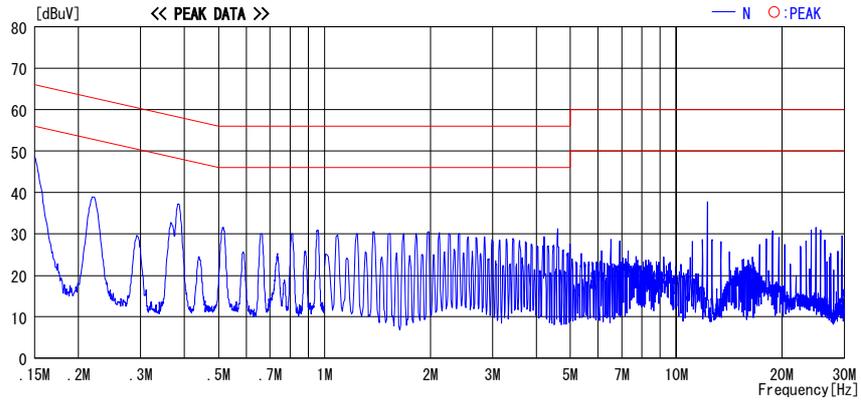


CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCULATION: RESULT=READING+C.F(LISN LOSS+CABLE LOSS)
 Except for the above table : adequate margin data below the limits.

Conducted Emission
Ch: High

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
 Date : 2006/12/16 15:49:53

Company	: Sony EMCS Corp. Saitama TEC	Report No.	: 27EE0056-HO
Kind of EUT	: DVD Receiver	Power	: AC 120V / 60Hz
Model No.	: HCD-DH7BT	Temp./Humi.	: 23deg. C / 39%
Serial No.	: 1	Operator	: Norihisa Hashimoto

Mode / Remarks : Transmitting 2480MHz

LIMIT : FCC15C § 15.207 (QP) / RSS-Gen / RSS-210
 FCC15C § 15.207 (AV) / RSS-Gen / RSS-210

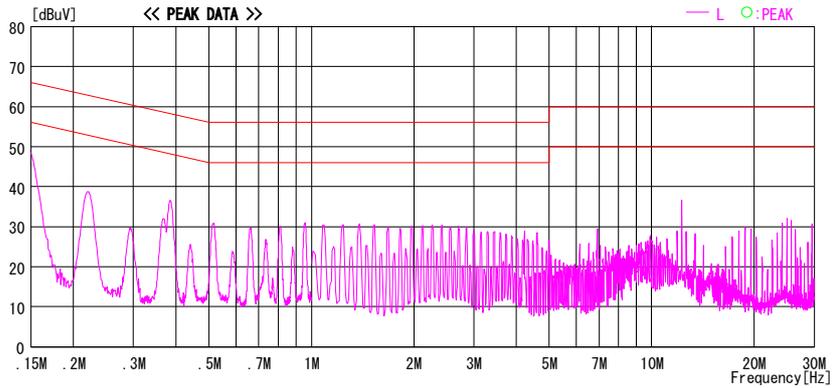
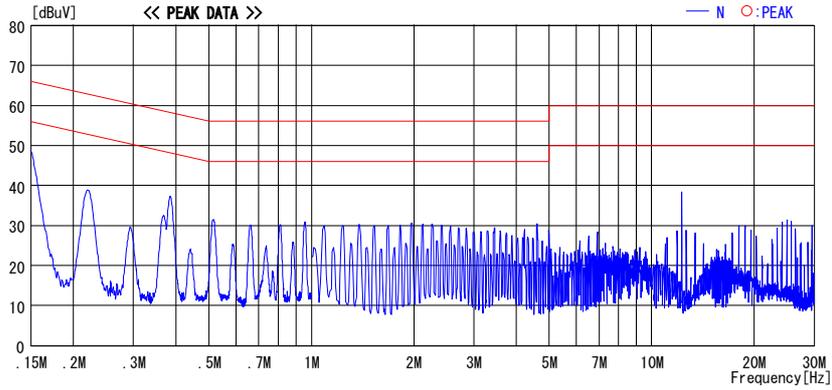


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LOSS)
 Except for the above table : adequate margin data below the limits.

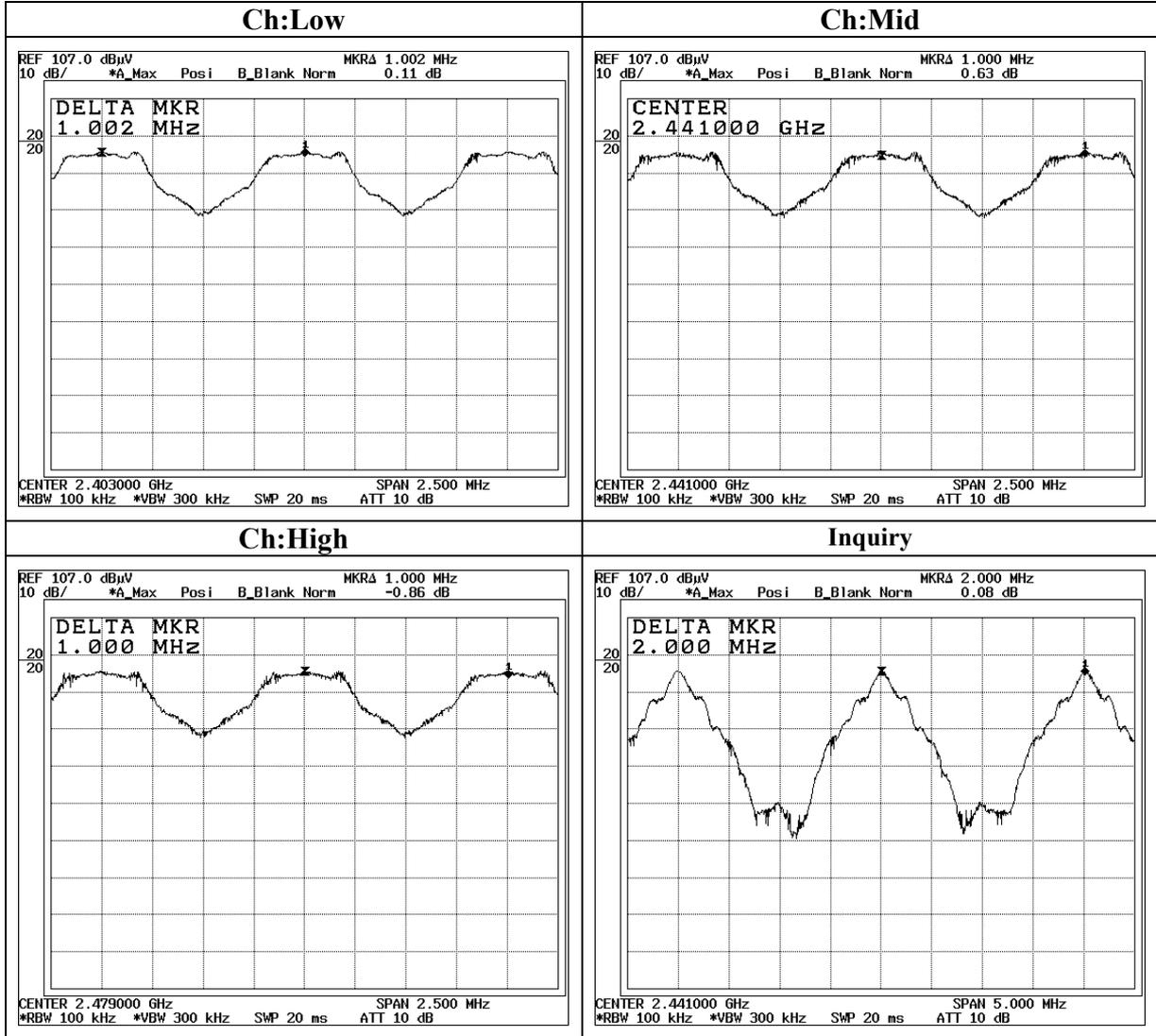
Carrier Frequency Separation

UL Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded Room

COMPANY	: Sony EMCS Corporation Saitma TEC	REGULATION	: FCC15.247(a)(1)/RSS-210A8.1(2)
EQUIPMENT	: DVD Receiver	TEST DISTANCE	: -
MODEL	: HCD-DH7BT	DATE	: 12/13/2006
S/ N	: 1	TEMPERATURE	: 25deg.C
POWER	: AC120V / 60Hz	HUMIDITY	: 41%
MODE	: Tx (Hopping on) /Inquiry	ENGINEER	: Shinya Watanabe

Ch	Freq. [MHz]	Channel separation [MHz]	Limit
Low	2402.0	1.002	>two-thirds of 0.870MHz(20dB Bandwidth) or 25[kHz](whichever is greater)
Mid	2441.0	1.000	>two-thirds of 0.873MHz(20dB Bandwidth) or 25[kHz](whichever is greater)
High	2480.0	1.000	>two-thirds of 0.876MHz(20dB Bandwidth) or 25[kHz](whichever is greater)
Inquiry	2441.0	2.000	>two-thirds of 0.771MHz(20dB Bandwidth) or 25[kHz](whichever is greater)

Carrier Frequency Separation



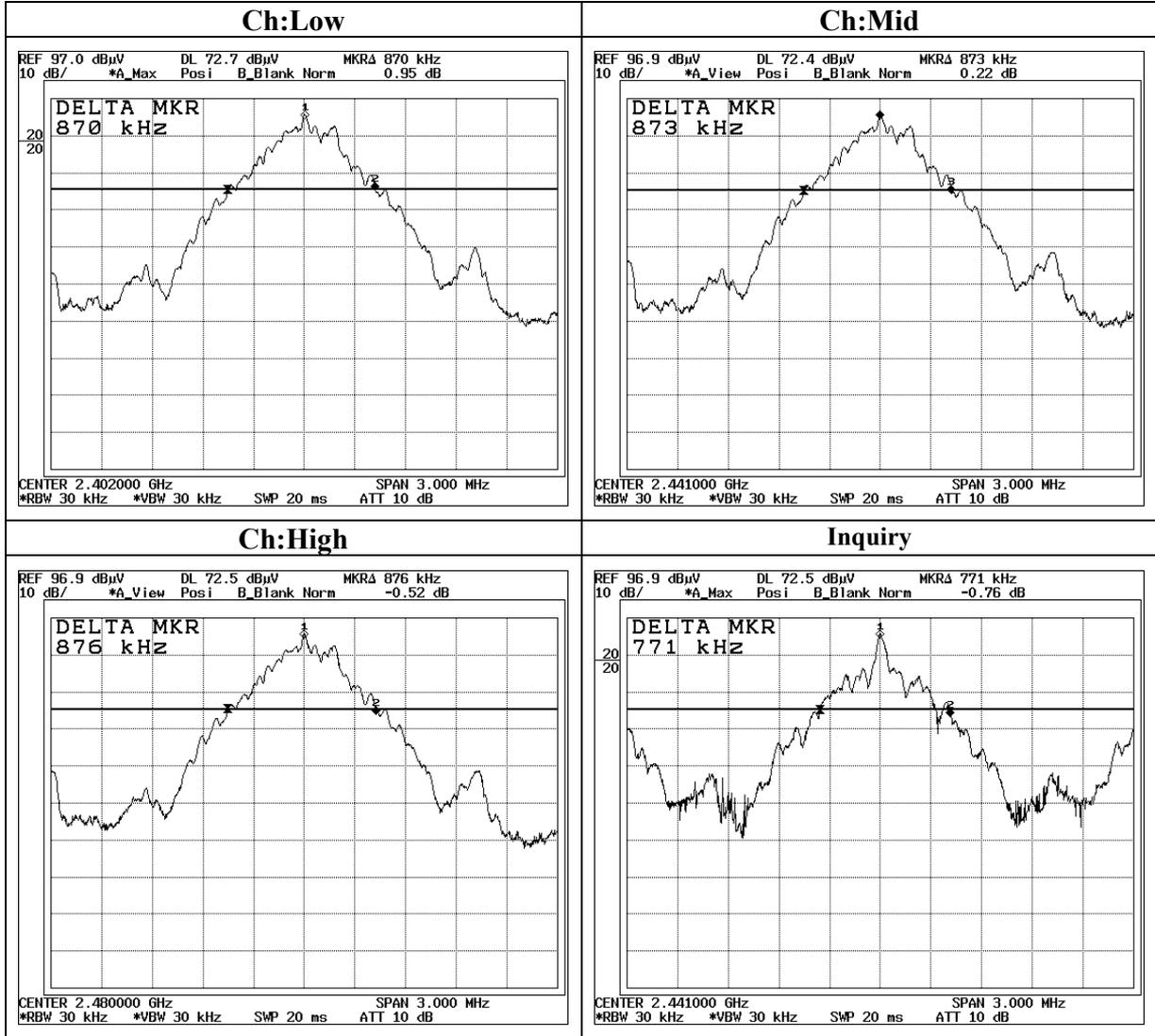
20dB Bandwidth

UL Apex Co., Ltd.
Head Office EMC Lab. No.7Shielded Room

COMPANY : Sony EMCS Corporation Saitma TEC REGULATION : FCC15.247(a)(1)/RSS-210A8.1(1)
EQUIPMENT : DVD Receiver TEST DISTANCE : -
MODEL : HCD-DH7BT DATE : 12/13/2006
S/N : 1 TEMPERATURE : 25deg.C
POWER : AC120V / 60Hz HUMIDITY : 41%
MODE : Tx (Hopping off) /Inquiry ENGINEER : Shinya Watanabe

Ch	Freq. [MHz]	20dB Bandwidth [MHz]	Limit [MHz]
Low	2402.0	0.870	-
Mid	2441.0	0.873	-
High	2480.0	0.876	-
Inquiry	2441.0	0.771	-

20dB Bandwidth



Number of Hopping Frequency

UL Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded Room

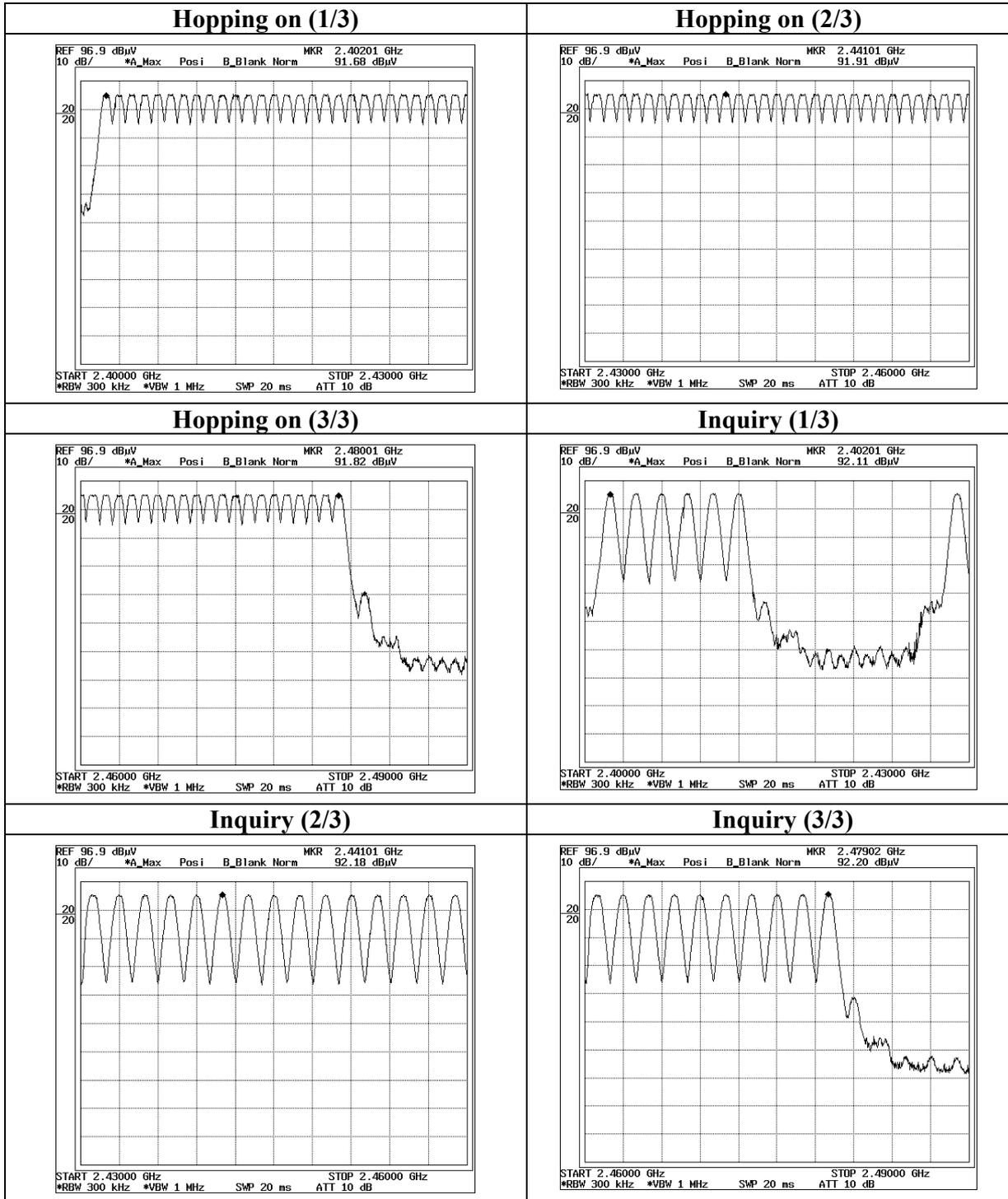
COMPANY : Sony EMCS Corporation Saitma TEC
EQUIPMENT : DVD Receiver
MODEL : HCD-DH7BT
S/ N : 1
POWER : AC120V / 60Hz
MODE : Tx (Hopping on) /Inquiry

REGULATION : FCC15.247(a)(1)(iii)/RSS-210A8.1(4)
TEST DISTANCE : -
DATE : 12/13/2006
TEMPERATURE : 25deg.C
HUMIDITY : 41%
ENGINEER : Shinya Watanabe

Mode	Number of channel [time]	Limit [time]
Tx(Hoppng on)	79	≥ 15

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

Number of Hopping Frequency



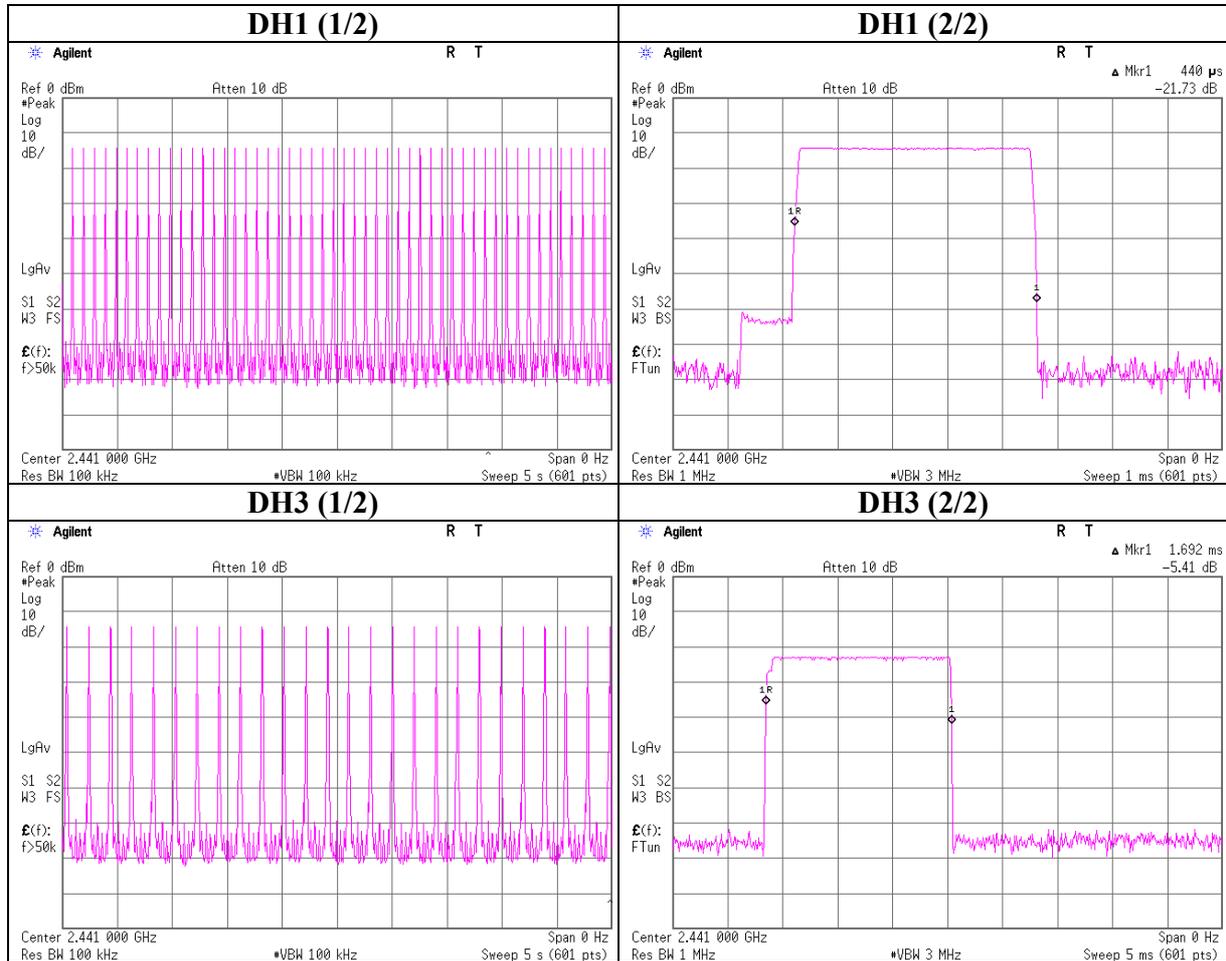
Dwell time

UL Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded Room

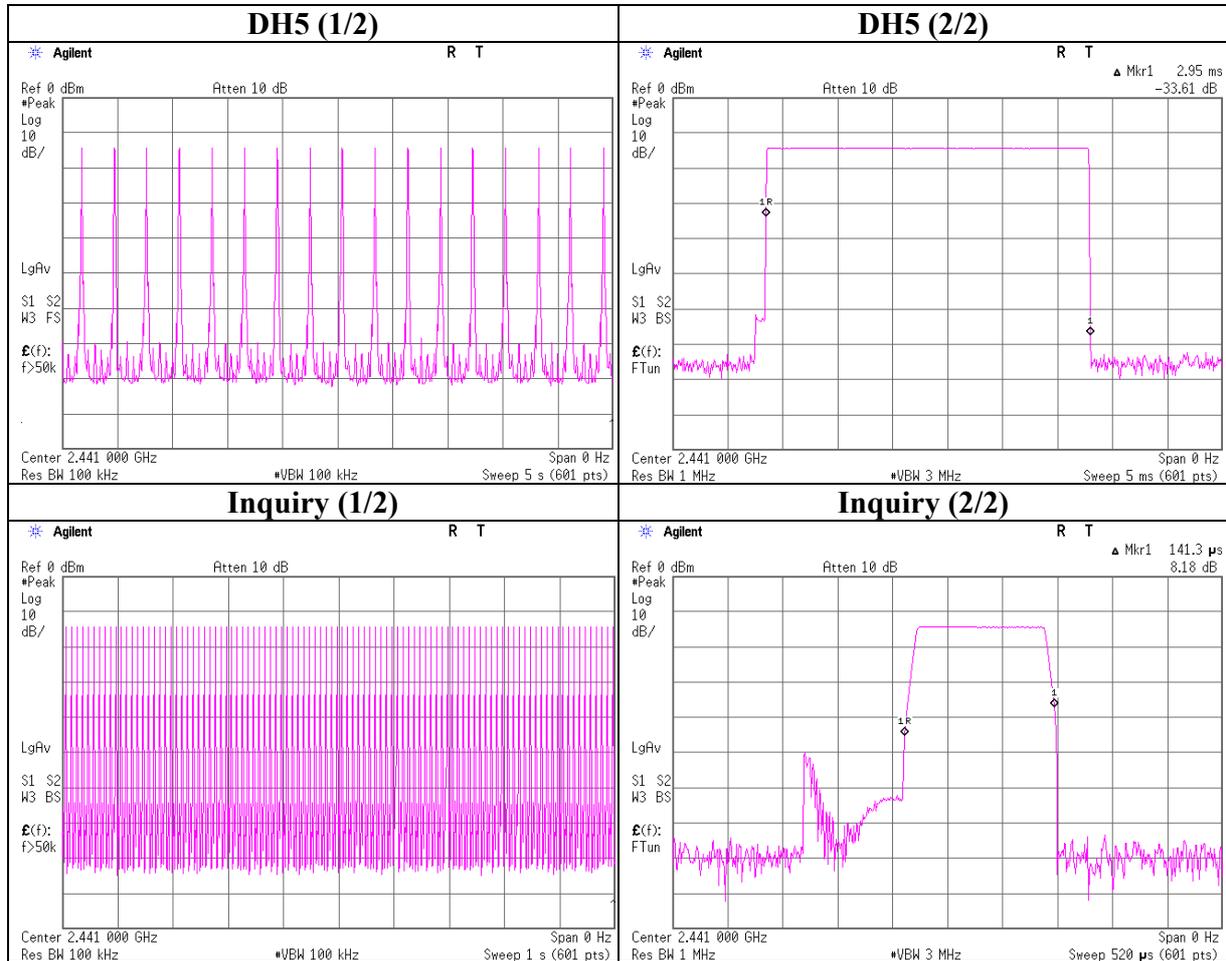
COMPANY : Sony EMCS Corporation Saitma TEC	REGULATION : FCC15.247(a)(1)(iii)/RSS-210A8.1(4)
EQUIPMENT : DVD Receiver	TEST DISTANCE : -
MODEL : HCD-DH7BT	DATE : 12/13/2006
S/N : 1	TEMPERATURE : 25deg.C
POWER : AC120V / 60Hz	HUMIDITY : 41%
MODE : Tx (Hopping on) /Inquiry	ENGINEER : Shinya Watanabe

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	0.440	139	400
DH3	26 times / 5 sec. x 31.6 sec. = 165 times	1.692	279	400
DH5	17 times / 5 sec. x 31.6 sec. = 108 times	2.950	319	400
Inquiry	100 times / 1 sec. x 12.8 sec. = 1280 times	0.141	181	400

Dwell time



Dwell time



Maximum Peak Output Power

UL Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded Room

COMPANY : Sony EMCS Corporation Saitma TEC REGULATION : FCC15.247(b)(1)/RSS-210A8.4(2)
EQUIPMENT : DVD Receiver TEST DISTANCE : -
MODEL : HCD-DH7BT DATE : 12/13/2006
S/N : 1 TEMPERATURE : 25deg.C
POWER : AC120V / 60Hz HUMIDITY : 41%
MODE : Tx (Hopping off) /Inquiry ENGINEER : Shinya Watanabe

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2402.0	-13.67	3.12	10.14	-0.41	0.91	20.97	125	21.38
Mid	2441.0	-13.58	3.13	10.14	-0.31	0.93	20.97	125	21.28
High	2480.0	-13.61	3.14	10.14	-0.33	0.93	20.97	125	21.30
Inquiry	2441.0	-13.65	3.13	10.14	-0.38	0.92	20.97	125	21.35

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

UL Apex Co., Ltd.

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MF060b(14.06.06)

Radiated Spurious Emission (below 1GHz)

Ch: Low

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

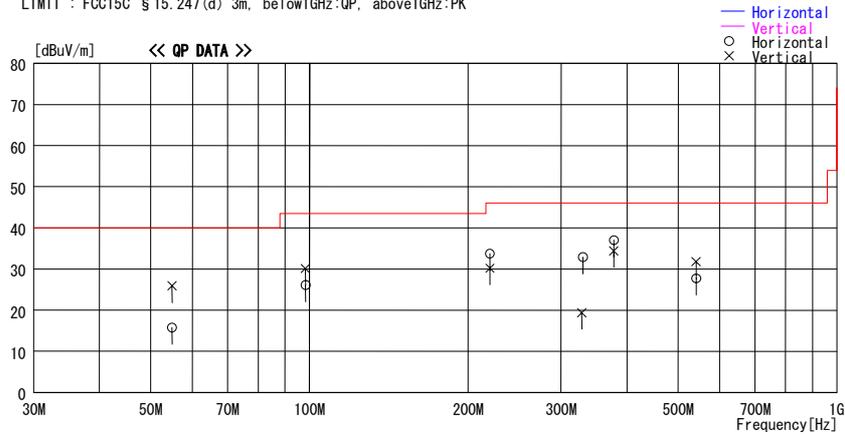
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/12/16 11:44:27

Applicant : Sony EMCS Corp. Saitama TEC
Kind of EUT : DVD Receiver
Model No. : HCD-DH7BT
Serial No. : 1
Report No. : 27EE0056-HO
Power : AC 120V / 60Hz
Temp./Humi. : 23deg.C / 39%
Operator : Norihisa Hashimoto

Mode / Remarks : Transmitting 2402MHz

LIMIT : FCC15C § 15.247(d) 3m, below1GHz:QP, above1GHz:PK



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
			Factor [dB/m]	Gain [dB]						
54.912	28.4	QP	9.3	-21.9	15.8	260	372	Hori.	40.0	24.2
54.913	38.5	QP	9.3	-21.9	25.9	0	100	Vert.	40.0	14.1
98.304	37.6	QP	9.7	-21.2	26.1	278	290	Hori.	43.5	17.4
98.304	41.6	QP	9.7	-21.2	30.1	349	100	Vert.	43.5	13.4
220.001	36.6	QP	17.1	-20.0	33.7	241	152	Hori.	46.0	12.3
219.999	33.1	QP	17.1	-20.0	30.2	299	100	Vert.	46.0	15.8
328.703	23.2	QP	15.6	-19.4	19.4	269	129	Vert.	46.0	26.6
329.999	36.7	QP	15.6	-19.4	32.9	286	100	Hori.	46.0	13.1
377.995	39.6	QP	17.2	-19.8	37.0	59	100	Hori.	46.0	9.0
377.998	37.0	QP	17.2	-19.8	34.4	275	139	Vert.	46.0	11.6
541.060	28.7	QP	18.9	-19.9	27.7	255	197	Hori.	46.0	18.3
541.060	32.8	QP	18.9	-19.9	31.8	2	100	Vert.	46.0	14.2

CHART:WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN

Radiated Spurious Emission (below 1GHz)
Ch: Mid

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

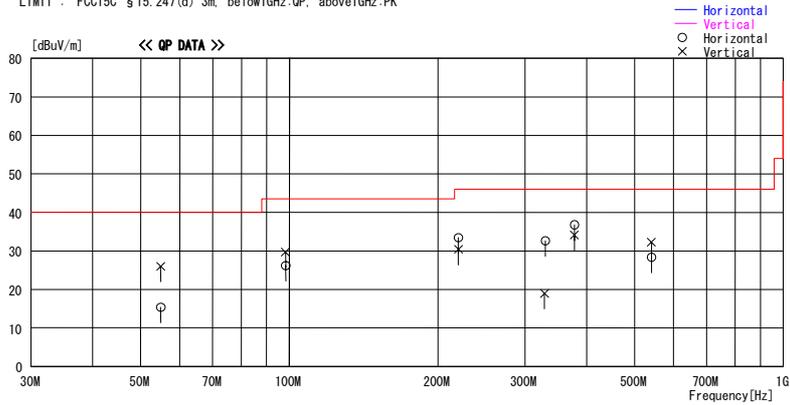
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/12/16 10:05:21

Applicant : Sony EMCS Corp. Saitama TEC
Kind of EUT : DVD Receiver
Model No. : HCD-DH7BT
Serial No. : 1
Report No. : 27EE0056-HO
Power : AC 120V / 60Hz
Temp./Humi. : 23deg.C / 39%
Operator : Norihisa Hashimoto

Mode / Remarks : Transmitting 2441MHz

LIMIT : FCC15C § 15.247(d) 3m, below1GHz:QP, above1GHz:PK



Frequency [MHz]	Reading [dBUV/m]	DET	Antenna		Level [dBUV/m]	Angle [Deg.]	Height [cm]	Polar.	Limit [dBUV/m]	Margin [dB]
			Factor [dB/m]	Loss & Gain [dB]						
54.912	28.0	QP	9.3	-21.9	15.4	289	368	Hori.	46.0	24.6
54.912	38.6	QP	9.3	-21.9	26.0	359	100	Vert.	46.0	14.0
98.305	37.7	QP	9.7	-21.2	26.2	275	294	Hori.	43.5	17.3
98.305	41.2	QP	9.7	-21.2	29.7	336	100	Vert.	43.5	13.8
219.999	36.4	QP	17.1	-20.0	33.5	234	149	Hori.	46.0	12.5
219.999	33.3	QP	17.1	-20.0	30.4	300	100	Vert.	46.0	15.6
329.998	36.5	QP	15.6	-19.4	32.7	289	100	Hori.	46.0	13.3
328.701	22.8	QP	15.6	-19.4	19.0	279	133	Vert.	46.0	27.0
377.998	39.4	QP	17.2	-19.8	36.8	57	100	Hori.	46.0	9.2
377.998	36.8	QP	17.2	-19.8	34.2	272	135	Vert.	46.0	11.8
541.059	29.4	QP	18.9	-19.9	28.4	260	204	Hori.	46.0	17.6
541.059	33.3	QP	18.9	-19.9	32.3	359	100	Vert.	46.0	13.7

CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN

Radiated Spurious Emission (below 1GHz)
Ch: High

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

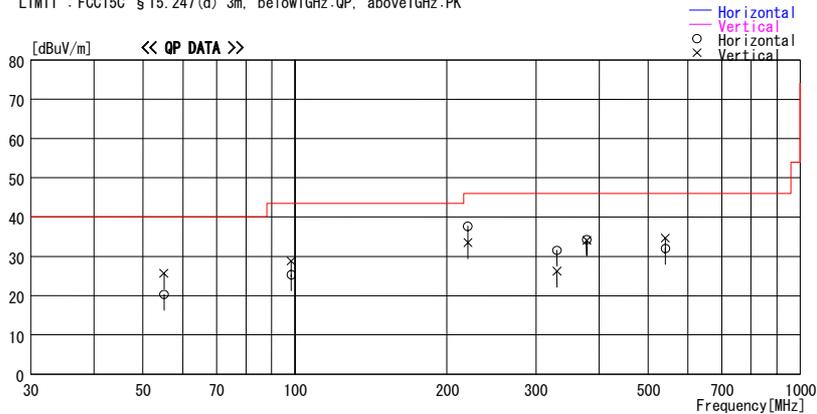
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No. 2 Semi Anechoic Chamber
Date : 2006/12/15 15:33:07

Applicant : Sony EMCS Corp. Saitama TEC Report No. : 27EE0056-HO
Kind of EUT : DVD Receiver Power : AC 120V / 60Hz
Model No. : HCD-DH7BT Temp./Humi. : 22deg. C / 45%
Serial No. : 1 Operator : Motoya Imura

Mode / Remarks : Transmitting 2480MHz

LIMIT : FCC15C § 15.247(d) 3m, below1GHz:QP, above1GHz:PK



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]						
55.050	38.4	QP	9.2	-21.9	25.7	20	100	Vert.	40.0	14.3
55.088	33.0	QP	9.2	-21.9	20.3	292	271	Hori.	40.0	19.7
98.292	36.8	QP	9.7	-21.2	25.3	82	332	Hori.	43.5	18.2
98.297	40.4	QP	9.7	-21.2	28.9	0	100	Vert.	43.5	14.7
219.992	40.5	QP	17.1	-20.0	37.6	254	180	Hori.	46.0	8.4
220.000	36.4	QP	17.1	-20.0	33.5	30	100	Vert.	46.0	12.5
330.011	30.0	QP	15.6	-19.4	26.2	351	100	Vert.	46.0	19.8
330.018	35.3	QP	15.6	-19.4	31.5	233	100	Hori.	46.0	14.5
378.009	36.9	QP	17.2	-19.8	34.3	80	230	Hori.	46.0	11.7
378.009	36.7	QP	17.2	-19.8	34.1	351	150	Vert.	46.0	11.9
541.055	33.0	QP	18.9	-19.8	32.0	290	239	Hori.	46.0	14.0
541.067	35.6	QP	18.9	-19.8	34.6	0	113	Vert.	46.0	11.4

CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN

Radiated Spurious Emission (above 1GHz)
Ch: Low

UL Apex Co., Ltd.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company : Sony EMCS Corporation Saitama TEC REPORT NO : 27EE0056-HO
Equipment : DVD Receiver REGULATION : Fcc Part15 Subpart C 15.247(d)
Model : HCD-DH7BT TEST DISTANCE : 3/1m
Sample No. : 1 DATE : 12/09/2006
Power : AC 120 V / 60 Hz TEMPERATURE : 23deg.C
Mode : Bluetooth, Tx 2402MHz HUMIDITY : 40%
Remarks : Normal-axis ENGINEER : Shinya Watanabe
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	1601.9	51.0	48.5	25.1	33.7	1.8	0.0	44.2	41.7	74.0	29.8	32.3
2	2390.0	42.7	42.6	26.6	32.7	2.1	0.0	38.7	38.6	74.0	35.3	35.4
3*	2400.0	65.4	72.2	26.6	32.7	2.1	0.0	61.4	68.2	74.0	-	-
4	3204.0	45.5	48.1	27.8	32.2	2.5	0.0	43.6	46.2	74.0	30.4	27.8
5	4804.0	42.2	41.3	30.8	31.5	3.2	1.4	46.1	45.2	74.0	27.9	28.8
6	7206.0	42.1	41.9	35.2	32.4	3.9	1.2	50.0	49.8	74.0	24.0	24.2
7	9608.0	42.4	41.5	37.6	33.0	4.8	1.0	52.8	51.9	74.0	21.2	22.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	12010.0	NS	NS	38.5	32.6	5.7	0.0	-	-	74.0	-	-
9	14412.0	NS	NS	40.1	32.3	6.1	0.0	-	-	74.0	-	-
10	16814.0	NS	NS	39.0	32.1	6.5	0.0	-	-	74.0	-	-
11	19216.0	NS	NS	39.0	31.4	6.8	0.0	-	-	74.0	-	-
12	21618.0	NS	NS	39.3	32.1	7.4	0.0	-	-	74.0	-	-
13	24020.0	46.8	45.5	39.1	31.9	7.9	0.0	52.4	51.1	74.0	21.6	22.9

* 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	1601.9	47.1	42.9	25.1	33.7	1.8	0.0	40.3	36.1	54.0	13.7	17.9
2	2390.0	29.6	30.0	26.6	32.7	2.1	0.0	25.6	26.0	54.0	28.4	28.0
3*	2400.0	55.3	60.9	26.6	32.7	2.1	0.0	51.3	56.9	54.0	-	-
4	3204.0	35.6	40.6	27.8	32.2	2.5	0.0	33.7	38.7	54.0	20.3	15.3
5	4804.0	28.5	28.6	30.8	31.5	3.2	1.4	32.4	32.5	54.0	21.6	21.5
6	7206.0	29.3	29.2	35.2	32.4	3.9	1.2	37.2	37.1	54.0	16.8	16.9
7	9608.0	29.3	29.3	37.6	33.0	4.8	1.0	39.7	39.7	54.0	14.3	14.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	12010.0	NS	NS	38.5	32.6	5.7	0.0	-	-	54.0	-	-
9	14412.0	NS	NS	40.1	32.3	6.1	0.0	-	-	54.0	-	-
10	16814.0	NS	NS	39.0	32.1	6.5	0.0	-	-	54.0	-	-
11	19216.0	NS	NS	39.0	31.4	6.8	0.0	-	-	54.0	-	-
12	21618.0	NS	NS	39.3	32.1	7.4	0.0	-	-	54.0	-	-
13	24020.0	33.1	33.2	39.1	31.9	7.9	0.0	38.7	38.8	54.0	15.3	15.2

* 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	89.8	96.7	26.6	32.7	2.1	0.0	85.8	92.7	-	-	-
3	2400.0	49.4	56.0	26.6	32.7	2.1	0.0	45.4	52.0	Funda-20dB	20.4	20.7

NS: Non Signal

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 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.

Radiated Spurious Emission (above 1GHz)
Ch: Mid

UL Apex Co., Ltd.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company	: Sony EMCS Corporation Saitama TEC	REPORT NO	: 27EE0056-HO
Equipment	: DVD Receiver	REGULATION	: Fec Part15 Subpart C 15.247(d)
Model	: HCD-DH7BT	TEST DISTANCE	: 3/1m
Sample No.	: 1	DATE	: 12/09/2006
Power	: AC 120 V / 60 Hz	TEMPERATURE	: 23deg.C
Mode	: Bluetooth, Tx 2441MHz	HUMIDITY	: 40%
Remarks	: Normal-axis	ENGINEER	: Shinya Watanabe

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	1628.0	52.2	48.9	25.2	33.6	1.8	0.0	45.6	42.3	74.0	28.4	31.7
2	3256.0	45.2	48.3	27.9	32.2	2.5	0.0	43.4	46.5	74.0	30.6	27.5
3	4882.0	40.8	40.9	31.0	31.5	3.2	1.4	44.9	45.0	74.0	29.1	29.0
4	7323.0	42.4	42.0	35.4	32.5	3.9	1.1	50.3	49.9	74.0	23.7	24.1
5	9764.0	41.5	42.7	37.6	33.1	4.9	1.1	52.0	53.2	74.0	22.0	20.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12205.0	NS	NS	38.5	32.5	5.7	0.0	-	-	74.0	-	-
7	14646.0	NS	NS	40.1	32.3	6.1	0.0	-	-	74.0	-	-
8	17087.0	NS	NS	40.0	31.9	6.6	0.0	-	-	74.0	-	-
9	19528.0	NS	NS	39.1	31.5	6.8	0.0	-	-	74.0	-	-
10	21969.0	NS	NS	39.5	32.0	7.5	0.0	-	-	74.0	-	-
11	24410.0	45.5	46.3	39.1	31.7	8.0	0.0	51.4	52.2	74.0	22.6	21.8

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]	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	1628.0	48.8	42.6	25.2	33.6	1.8	0.0	42.2	36.0	54.0	11.8	18.0
2	3256.0	35.4	40.9	27.9	32.2	2.5	0.0	33.6	39.1	54.0	20.4	14.9
3	4882.0	28.2	28.4	31.0	31.5	3.2	1.4	32.3	32.5	54.0	21.7	21.5
4	7323.0	29.7	29.7	35.4	32.5	3.9	1.1	37.6	37.6	54.0	16.4	16.4
5	9764.0	29.1	29.1	37.6	33.1	4.9	1.1	39.6	39.6	54.0	14.4	14.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12205.0	NS	NS	38.5	32.5	5.7	0.0	-	-	54.0	-	-
7	14646.0	NS	NS	40.1	32.3	6.1	0.0	-	-	54.0	-	-
8	17087.0	NS	NS	40.0	31.9	6.6	0.0	-	-	54.0	-	-
9	19528.0	NS	NS	39.1	31.5	6.8	0.0	-	-	54.0	-	-
10	21969.0	NS	NS	39.5	32.0	7.5	0.0	-	-	54.0	-	-
11	24410.0	33.1	33.1	39.1	31.7	8.0	0.0	39.0	39.0	54.0	15.0	15.0

NS: Non Signal

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 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.

Radiated Spurious Emission (above 1GHz)
Ch: High

UL Apex Co., Ltd.
Head Office EMC Lab. No.4 Semi Anechoic Chamber

Company	: Sony EMCS Corporation Saitama TEC	REPORT NO	: 27EE0056-HO
Equipment	: DVD Receiver	REGULATION	: Fcc Part15 Subpart C 15.247(d)
Model	: HCD-DH7BT	TEST DISTANCE	: 3/1m
Sample No.	: 1	DATE	: 12/09/2006
Power	: AC 120 V / 60 Hz	TEMPERATURE	: 23deg.C
Mode	: Bluetooth, Tx 2480MHz	HUMIDITY	: 40%
Remarks	: Normal-axis	ENGINEER	: Shinya Watanabe

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 [dB]	VER [dB]			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1654.0	53.5	49.9	25.2	33.6	1.8	0.0	46.9	43.3	74.0	27.1	30.7
2	2483.5	48.1	56.5	26.8	32.6	2.2	0.0	44.5	52.9	74.0	29.5	21.1
3	3307.9	44.9	46.5	27.9	32.1	2.6	0.0	43.3	44.9	74.0	30.7	29.1
4	4960.0	40.8	40.7	31.1	31.5	3.2	1.4	45.0	44.9	74.0	29.0	29.1
5	7440.0	42.2	42.4	35.6	32.5	4.0	1.1	50.4	50.6	74.0	23.6	23.4
6	9920.0	42.5	42.4	37.7	33.1	4.9	1.2	53.2	53.1	74.0	20.8	20.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12400.0	NS	NS	38.6	32.5	5.8	0.0	-	-	74.0	-	-
8	14880.0	NS	NS	40.0	32.3	6.2	0.0	-	-	74.0	-	-
9	17360.0	NS	NS	42.0	31.9	6.6	0.0	-	-	74.0	-	-
10	19840.0	NS	NS	39.1	31.5	6.8	0.0	-	-	74.0	-	-
11	22320.0	NS	NS	39.5	32.0	7.6	0.0	-	-	74.0	-	-
12	24800.0	46.0	46.1	39.3	31.4	8.1	0.0	52.5	52.6	74.0	21.5	21.4

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER [dBuV]					HOR [dB]	VER [dB]			
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1654.0	50.9	45.5	25.2	33.6	1.8	0.0	44.3	38.9	54.0	9.7	15.1
2	2483.5	41.0	47.9	26.8	32.6	2.2	0.0	37.4	44.3	54.0	16.6	9.7
3	3307.9	34.4	38.7	27.9	32.1	2.6	0.0	32.8	37.1	54.0	21.2	16.9
4	4960.0	28.4	28.4	31.1	31.5	3.2	1.4	32.6	32.6	54.0	21.4	21.4
5	7440.0	29.7	29.7	35.6	32.5	4.0	1.1	37.9	37.9	54.0	16.1	16.1
6	9920.0	29.5	29.5	37.7	33.1	4.9	1.2	40.2	40.2	54.0	13.8	13.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12400.0	NS	NS	38.6	32.5	5.8	0.0	-	-	54.0	-	-
8	14880.0	NS	NS	40.0	32.3	6.2	0.0	-	-	54.0	-	-
9	17360.0	NS	NS	42.0	31.9	6.6	0.0	-	-	54.0	-	-
10	19840.0	NS	NS	39.1	31.5	6.8	0.0	-	-	54.0	-	-
11	22320.0	NS	NS	39.5	32.0	7.6	0.0	-	-	54.0	-	-
12	24800.0	33.2	33.2	39.3	31.4	8.1	0.0	39.7	39.7	54.0	14.3	14.3

NS: Non Signal

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

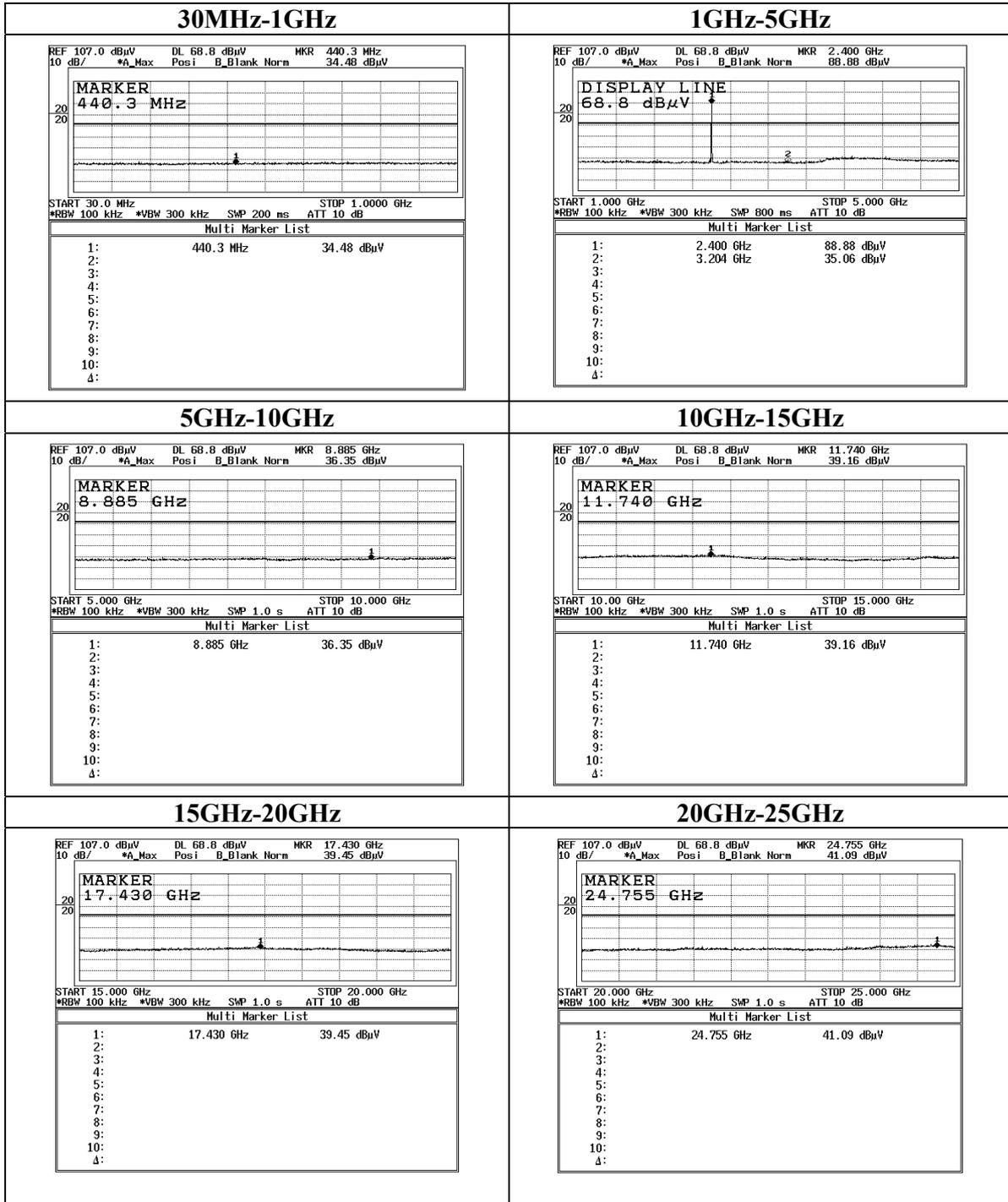
*Except for the above table : All other spurious emissions were less than 20dB for the limit.

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

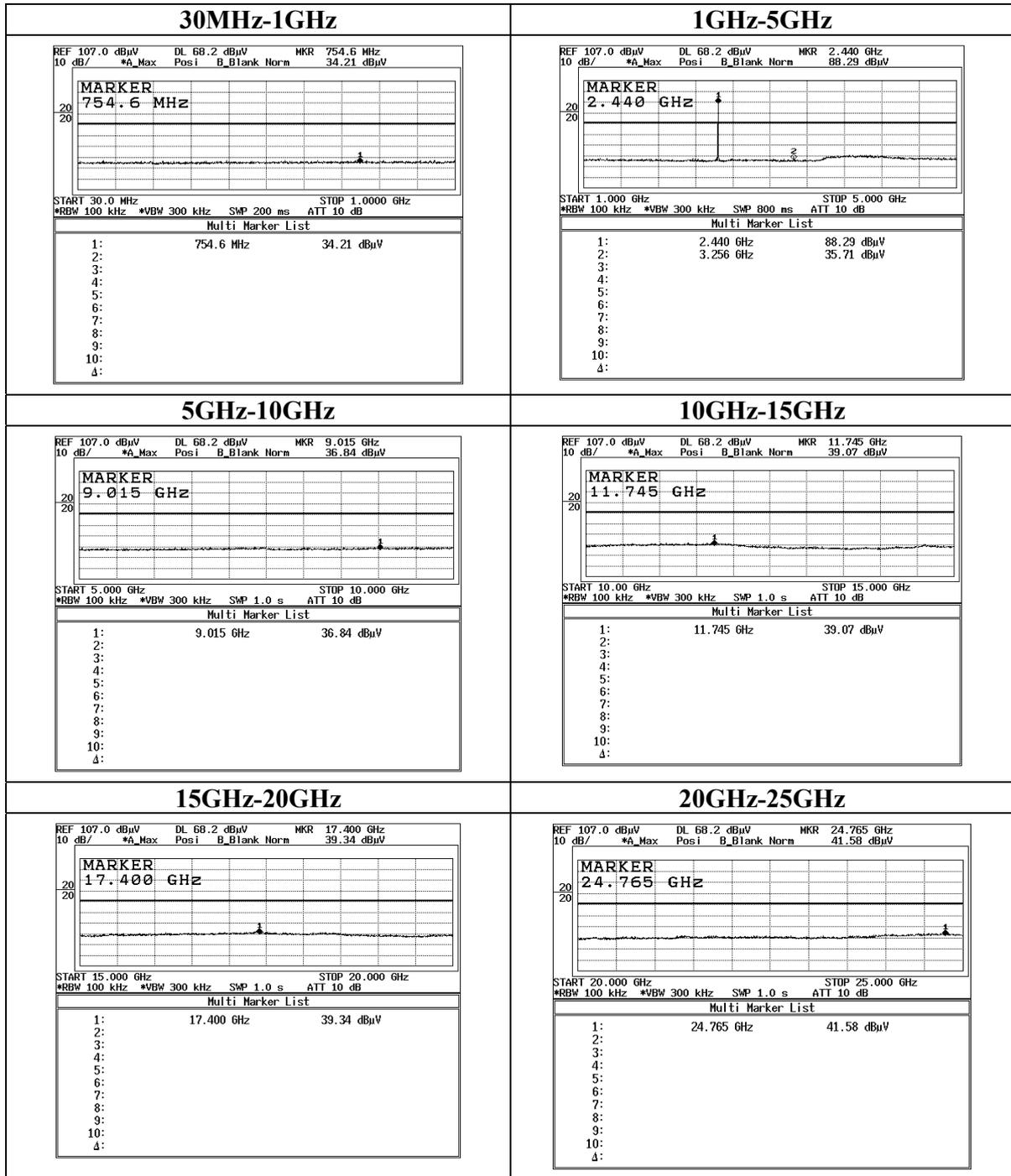
*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

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

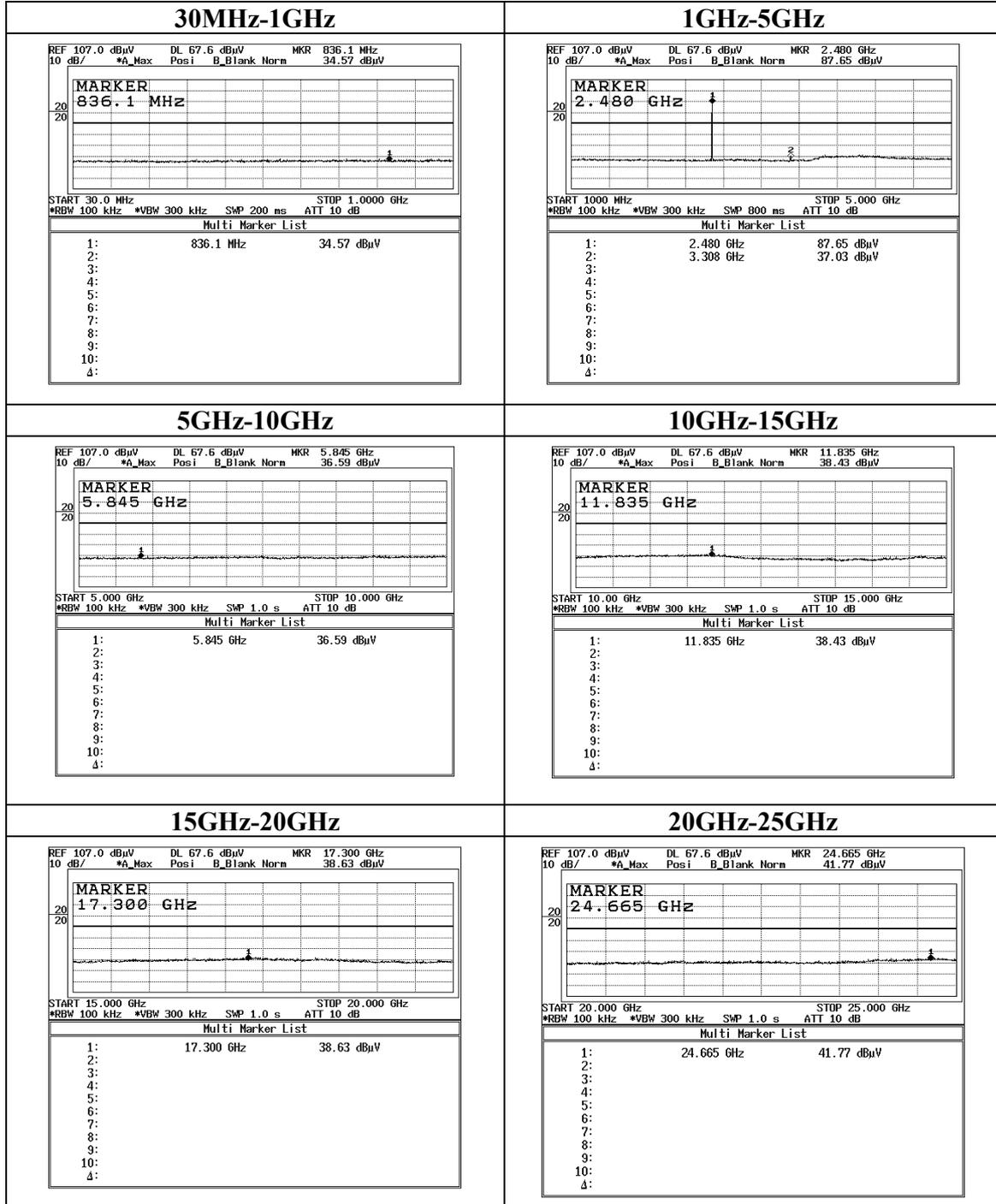
Conducted Spurious Emission
Ch:Low



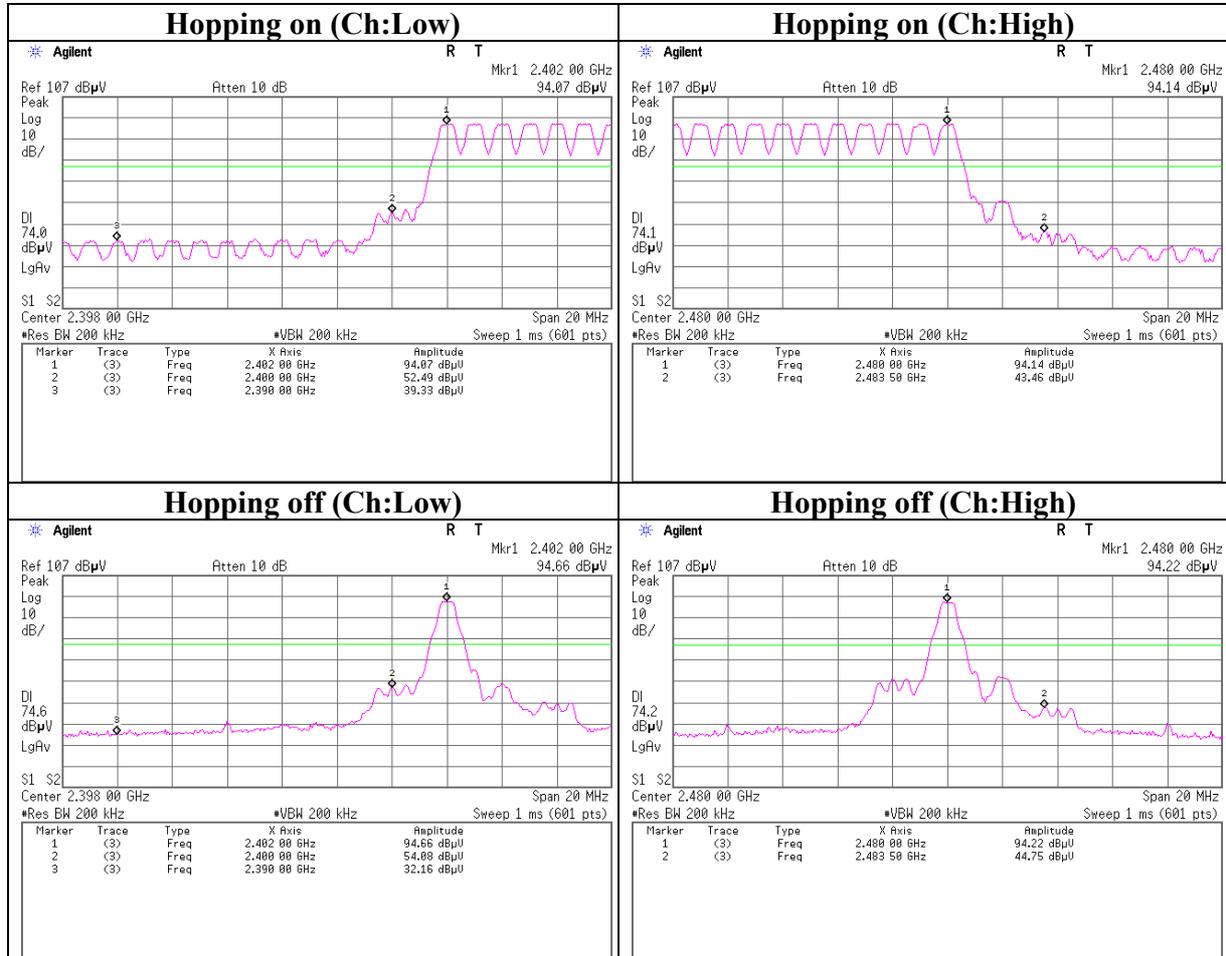
Conducted Spurious Emission
Ch:Mid



Conducted Spurious Emission
Ch:High



Conducted Spurious Emission Band Edge compliance



APPENDIX 3:Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-04	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE	2006/03/06 * 12
MSA-05	Spectrum Analyzer	Advantest	R3273	RE	2006/05/20 * 12
MCC-57	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2006/04/15 * 12
MPA-12	MicroWave System Amplifier	Agilent	83017A	RE	2006/03/27 * 12
MHA-21	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2006/08/17 * 12
MHA-02	Horn Antenna	EMCO	3160-09	RE	2006/01/09 * 12
MHF-05	High Pass Filter 3.5-24GHz	Tokimec	TF323DCA	RE	2006/01/24 * 12
MOS-15	Thermo-Hygrometer	Custom	CTH-180	RE	2006/01/19 * 24
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE	-
MJM-07	Measure	PROMART	SEN1955	RE	-
MBA-05	Biconical Antenna	Schwarzbeck	BBA9106	RE	2006/01/29 * 12
MLA-08	Logperiodic Antenna	Schwarzbeck	UKLP9140-A	RE	2006/01/29 * 12
MPA-14	Pre Amplifier	SONOA INSTRUMENT	310	RE	2006/03/25 * 12
MCC-50	Coaxial cable	UL Apex	-	RE	2006/03/09 * 12
MAT-31	Attenuator(6dB)	TME	UFA-01	RE	2006/03/11 * 12
MAEC-02	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE/CE	2006/04/10 * 12
MSA-05	Spectrum Analyzer	Advantest	R3273	RE	2006/05/20 * 12
MTR-03	Test Receiver	Rohde & Schwarz	ESCI	RE/CE	2006/03/04 * 12
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	2006/02/23 * 12
MAT-07	Attenuator(6dB)	Weinschel Corp	2	RE	2005/12/16 * 12
MOS-02	Digital Humidity Indicator	N.T	NT-1800	RE/CE	2006/11/27 * 12
MCC-13	Coaxial Cable	Fujikura/Agilent	-	CE	2006/02/23 * 12
MLS-07	LISN(AMN)	Schwarzbeck	NSLK8127	CE (EUT)	2006/02/06 * 12
MSA-09	Spectrum Analyzer	Advantest	R3273	AT	2006/12/08 * 12
MAT-23	Attenuator(10dB) DC-18GHz	Orient Microwave	BX10-0476-00	AT	2006/03/18 * 12
MCC-22	Microwave Cable 1G-40GHz	Storm	421-011 (90-011-080)	AT	2006/05/12 * 12
MCC-35	Microwave Cable	Hirose Electric	U.FL-2LP-066-A-(200)	AT	2006/11/13 * 12
MPM-09	Power Meter	Anritsu	ML2495A	AT	2006/09/20 * 12
MPSE-12	Power sensor	Anritsu	MA2411B	AT	2006/09/20 * 12
MSA-03	Spectrum Analyzer	Agilent	E4448A	AT	2006/09/13 * 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: CE: Conducted Emission
RE: Radiated Emission
AT: Antenna Terminal Conducted test

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