

APPENDIX 2: Data of EMI test

Conducted Emission
Ch:Low

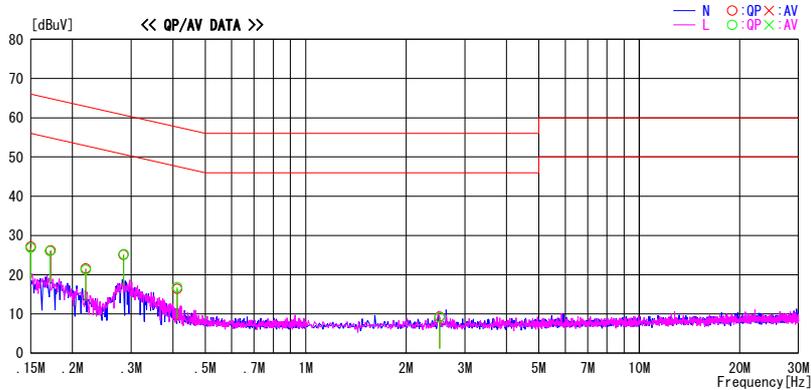
DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/12/16 16:30:11

Company : Sony EMCS Corp. Saitama TEC
Kind of EUT : Compact Disc Receiver
Model No. : HCD-BX5BT
Serial No. : 1
Report No. : 27EE0057-HO
Power : AC 120V / 60Hz
Temp./Humi. : 23deg. C / 39%
Operator : Norihisa Hashimoto

Mode / Remarks : Transmitting 2402MHz

LIMIT : FCC15. 207 QP
FCC15. 207 AV



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]	
0.15000	26.9	---	0.3	27.2	---	66.0	---	38.9	---	N
0.15000	26.5	---	0.3	26.8	---	66.0	---	39.2	---	L
0.17125	25.7	---	0.3	26.0	---	64.9	---	38.9	---	L
0.17210	25.9	---	0.3	26.2	---	64.9	---	38.7	---	N
0.21900	21.2	---	0.4	21.6	---	62.9	---	41.3	---	N
0.21900	20.9	---	0.4	21.3	---	62.9	---	41.6	---	L
0.28430	24.7	---	0.4	25.1	---	60.7	---	35.6	---	N
0.28515	24.9	---	0.4	25.3	---	60.7	---	35.4	---	L
0.41200	16.0	---	0.4	16.4	---	57.6	---	41.2	---	N
0.41210	16.4	---	0.4	16.8	---	57.6	---	40.8	---	L
2.51970	8.5	---	0.6	9.1	---	56.0	---	46.9	---	L
2.52020	8.7	---	0.6	9.3	---	56.0	---	46.7	---	N

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.

*Average power was not detected due to the low noise.

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 17:11:50

Company : Sony EMCS Corp. Saitama TEC
Kind of EUT : Compact Disc Receiver
Model No. : HCD-BX5BT
Serial No. : 1

Report No. : 27EE0057-HO
Power : AC 120V / 60Hz
Temp./Humi. : 23deg.C / 39%
Operator : Norihisa Hashimoto

Mode / Remarks : Transmitting 2441MHz

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

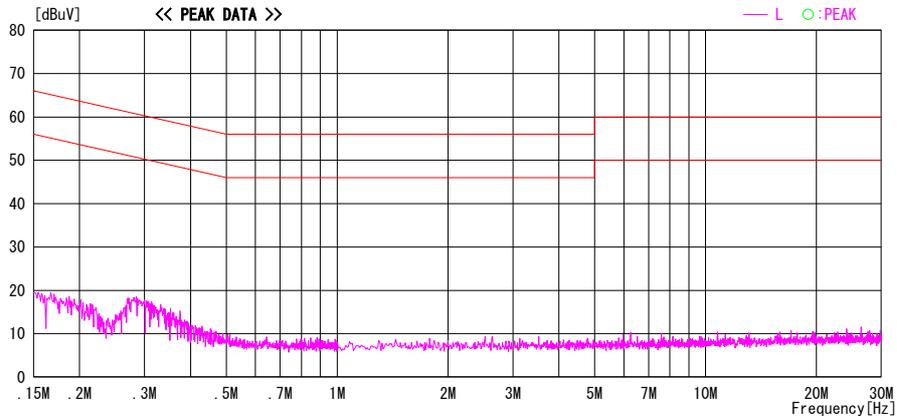
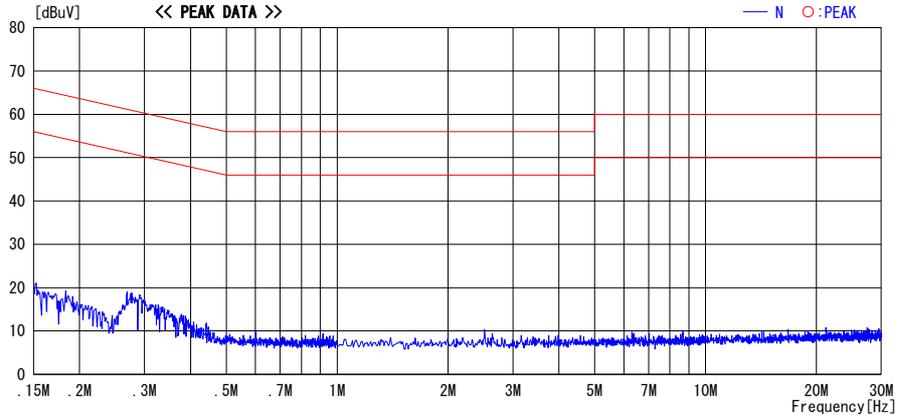


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

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 17:26:56

Company : Sony EMCS Corp. Saitama TEC
 Kind of EUT : Compact Disc Receiver
 Model No. : HCD-BX5BT
 Serial No. : 1

Report No. : 27EE0057-H0
 Power : AC 120V / 60Hz
 Temp./Humi. : 23deg. C / 39%
 Operator : Norihisa Hashimoto

Mode / Remarks : Transmitting 2480MHz

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

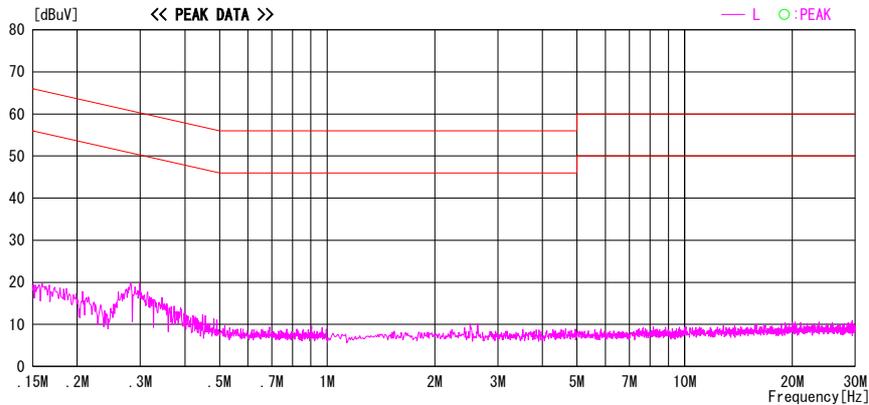
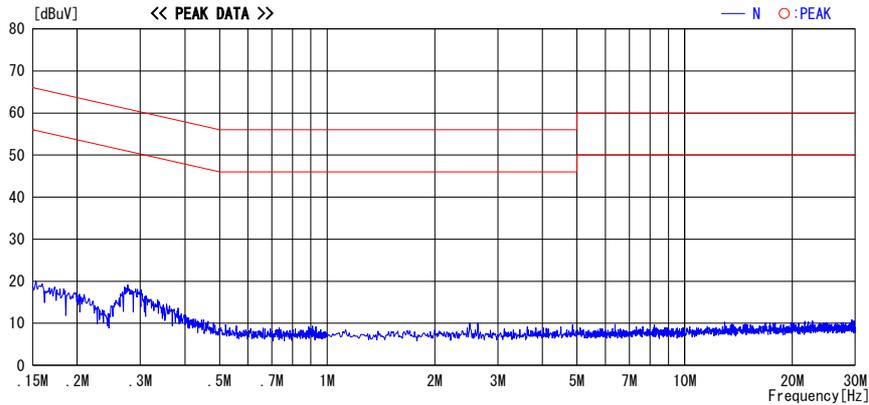


CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCURATION: RESULT=READING+C. F (LISN LOSS+CABLE LOSS)
 Except for the above table : adequate margin data below the limits.

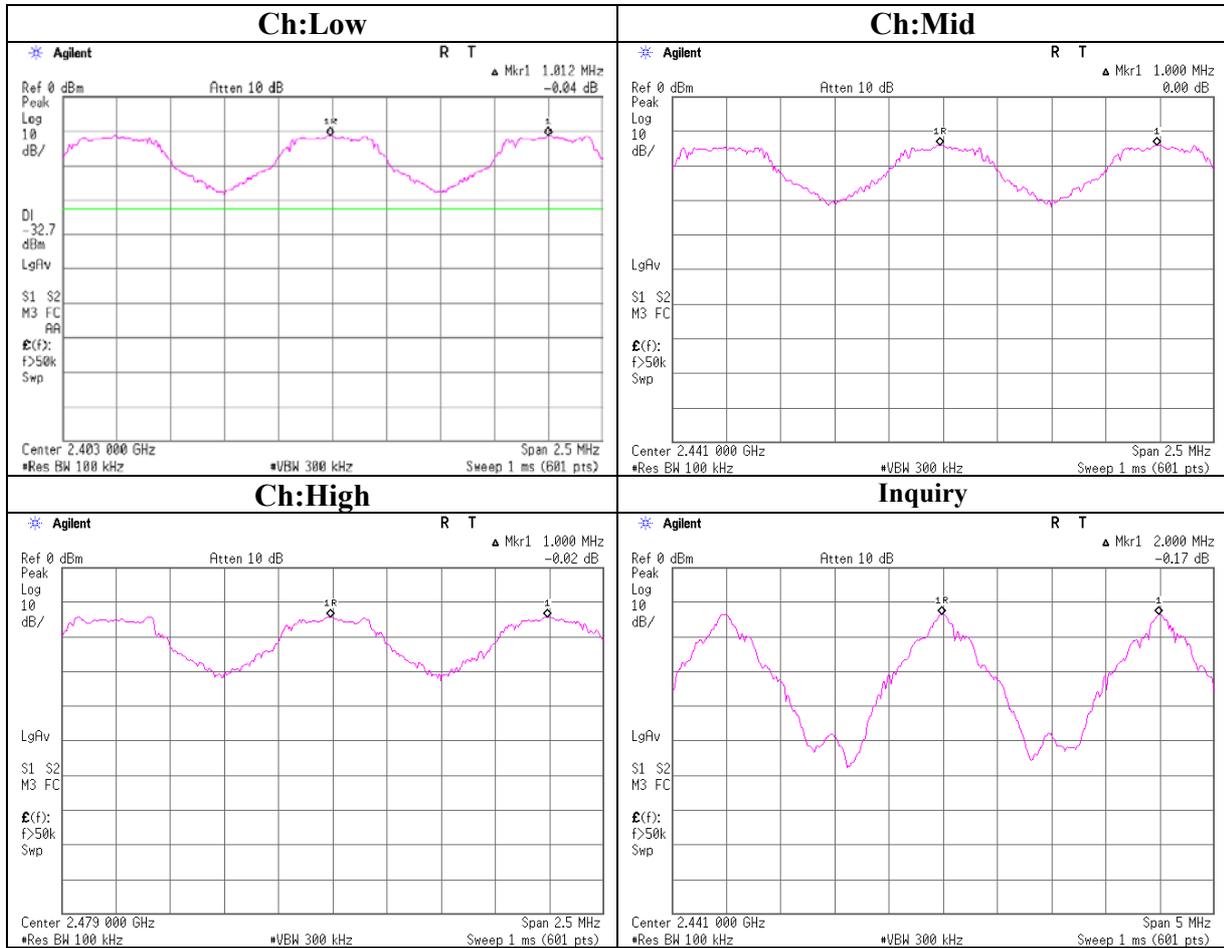
Carrier Frequency Separation

UL Apex Co., Ltd.
Head Office EMC Lab. No.4 Shielded Room

COMPANY : Sony EMCS Corp. Saitama TEC REGULATION : FCC15.247(a)(1)/RSS-210A8.1(2)
EQUIPMENT : Compact Disc Receiver TEST DISTANCE : -
MODEL : HCD-BX5BT DATE : 12/17/2006
S/N : 1 TEMPERATURE : 21.5deg.C
POWER : AC120V / 60Hz HUMIDITY : 37%
MODE : Transmitting (2402,2441,2480MHz)/Inquiry ENGINEER : Shinya Watanabe

Ch	Freq. [MHz]	Channel separation [MHz]	Limit
Low	2402.0	1.012	>two-thirds of 0.958MHz (20dB Bandwidth) or 25[kHz](whichever is greater)
Mid	2441.0	1.000	>two-thirds of 0.950MHz (20dB Bandwidth) or 25[kHz](whichever is greater)
High	2480.0	1.000	>two-thirds of 0.962MHz (20dB Bandwidth) or 25[kHz](whichever is greater)
Inquiry	2441.0	2.000	>two-thirds of 0.815MHz(20dB Bandwidth) or 25[kHz](whichever is greater)

Carrier Frequency Separation



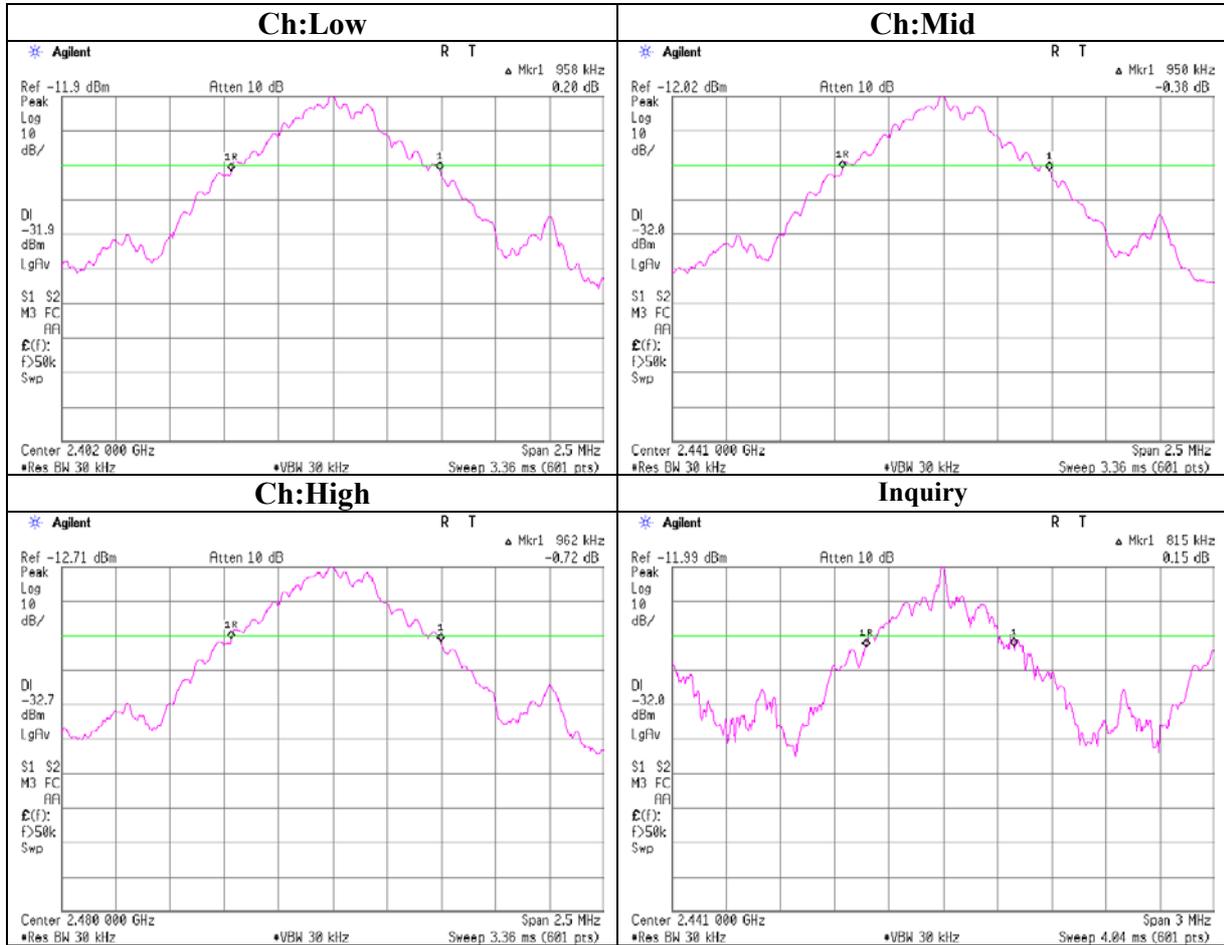
20dB Bandwidth

UL Apex Co., Ltd.
Head Office EMC Lab. No.4 Shielded Room

COMPANY	: Sony EMCS Corp. Saitama TEC	REGULATION	: FCC15.247(a)(1)/RSS-210A8.1(1)
EQUIPMENT	: Compact Disc Receiver	TEST DISTANCE	: -
MODEL	: HCD-BX5BT	DATE	: 12/17/2006
S/ N	: 1	TEMPERATURE	: 21.5deg.C
POWER	: AC120V / 60Hz	HUMIDITY	: 37%
MODE	: Tx (Hopping off) /Inquiry	ENGINEER	: Shinya Watanabe

Ch	Freq. [MHz]	20dB Bandwidth [MHz]	Limit [MHz]
Low	2402.0	0.958	-
Mid	2441.0	0.950	-
High	2480.0	0.962	-
Inquiry	2441.0	0.815	-

20dB Bandwidth



Number of Hopping Frequency

UL Apex Co., Ltd.
Head Office EMC Lab. No.4 Shielded Room

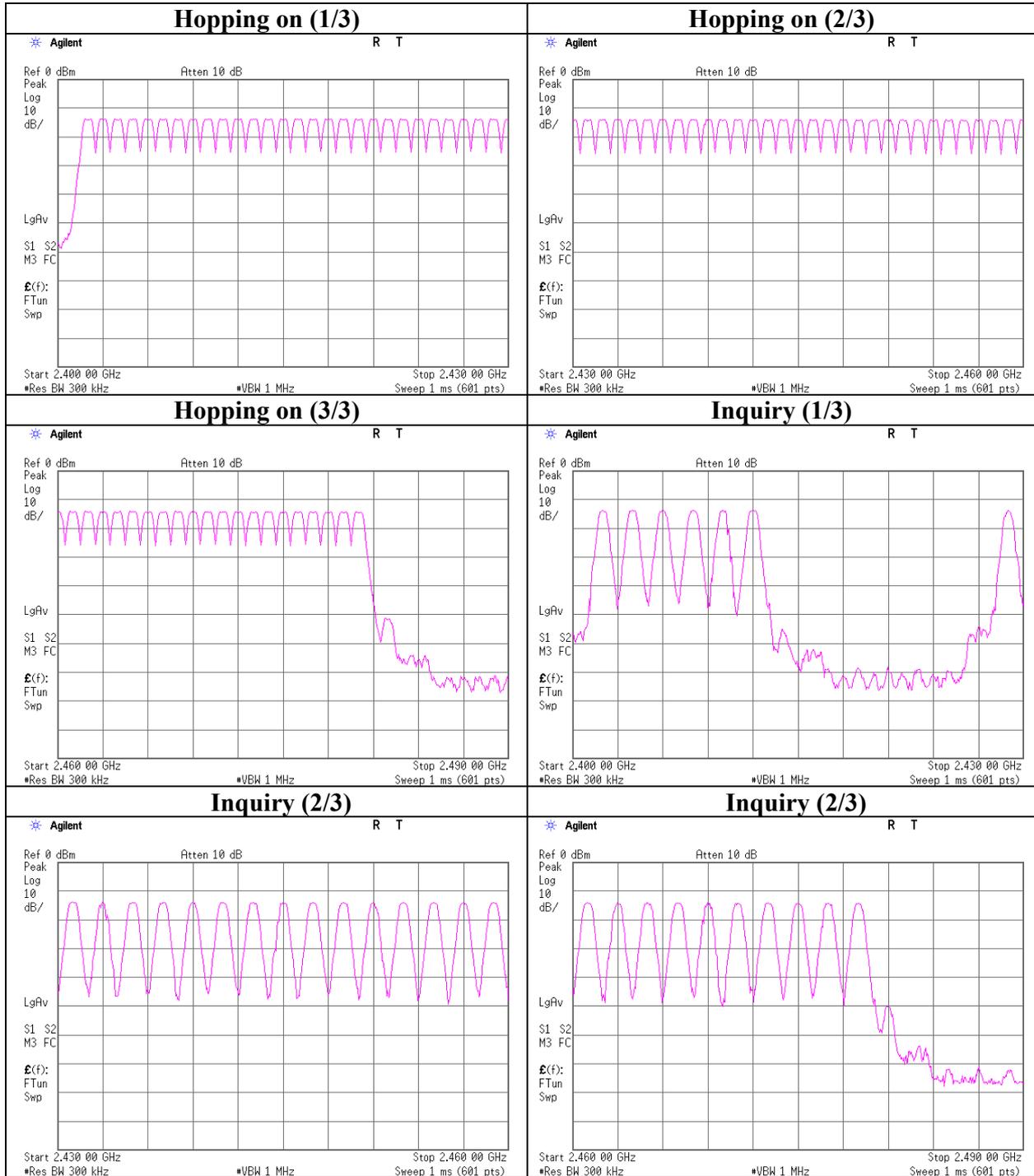
COMPANY : Sony EMCS Corp. SaitamaTEC
EQUIPMENT : Compact Disc Receiver
MODEL : HCD-BX5BT
S/ N : 1
POWER : AC120V / 60Hz
MODE : Tx (Hopping on) /Inquiry

REGULATION : FCC15.247(a)(1)(iii)/RSS-210A8.1(4)
TEST DISTANCE : -
DATE : 12/17/2006
TEMPERATURE : 21.5deg.C
HUMIDITY : 37%
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



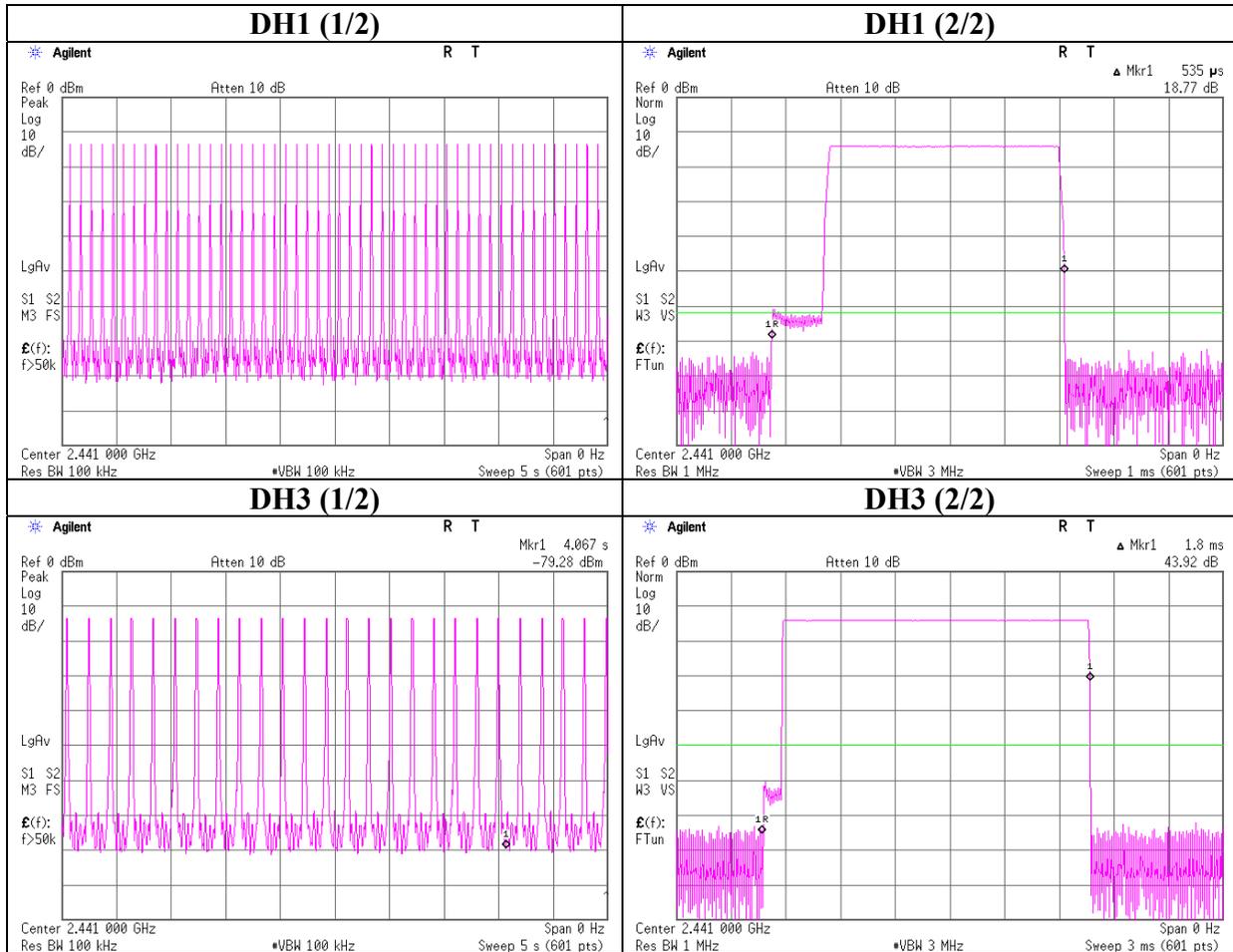
Dwell time

UL Apex Co., Ltd.
Head Office EMC Lab. No.4 Shielded Room

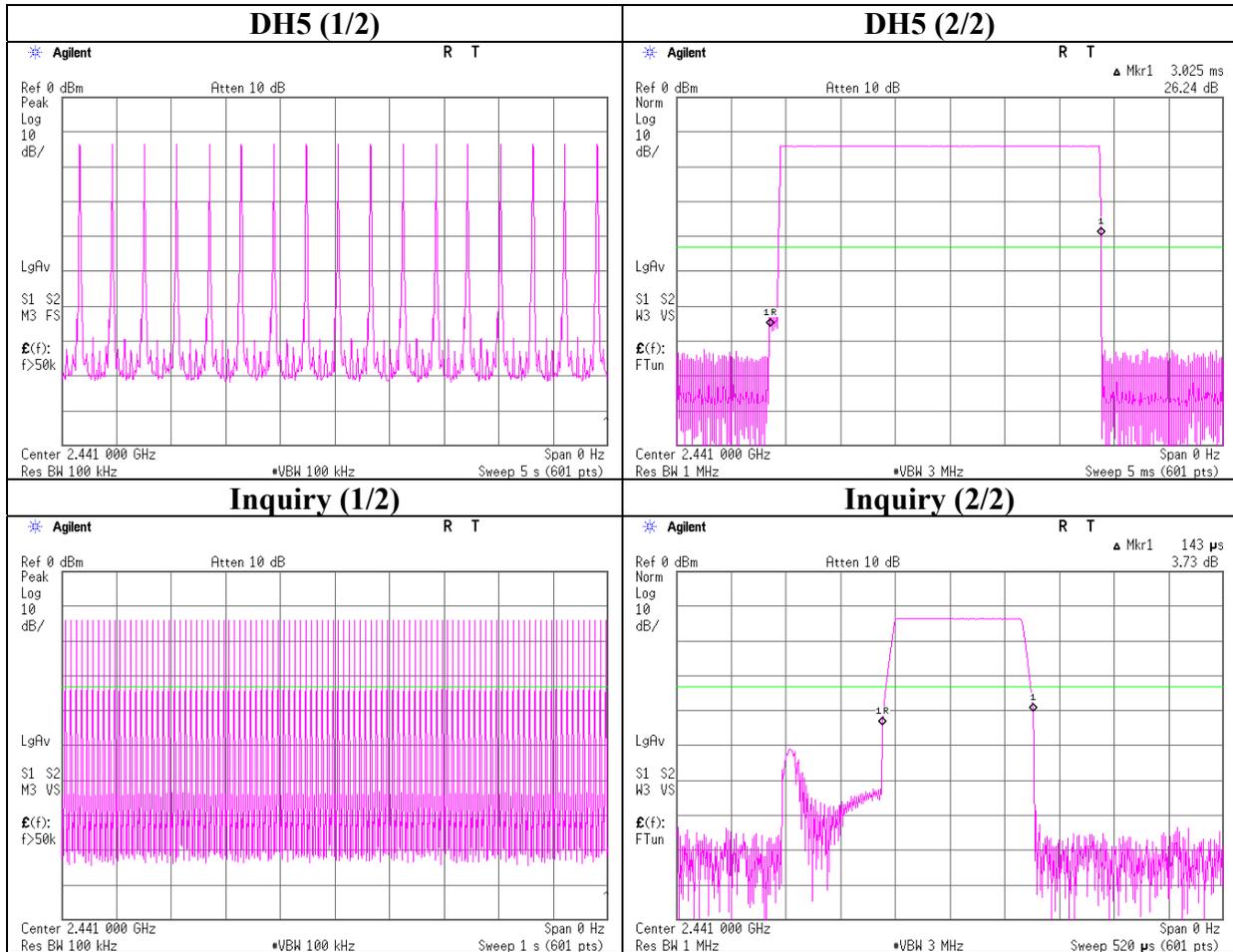
COMPANY	: Sony EMCS Corp. SaitamaTEC	REGULATION	: FCC15.247(a)(1)(iii)/RSS-210A8.1(4)
EQUIPMENT	: Compact Disc Receiver	TEST DISTANCE	: -
MODEL	: HCD-BX5BT	DATE	: 12/17/2006
S/N	: 1	TEMPERATURE	: 21.5deg.C
POWER	: AC120V / 60Hz	HUMIDITY	: 37%
MODE	: Tx (Hopping on) /Inquiry	ENGINEER	: Shinya Watanabe

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	0.535	169	400
DH3	26 times / 5 sec. x 31.6 sec. = 165 times	1.800	297	400
DH5	17 times / 5 sec. x 31.6 sec. = 108 times	3.025	327	400
Inquiry	101 times / 1 sec. x 12.8 sec. = 1293 times	0.143	185	400

Dwell time



Dwell time



Maximum Peak Output Power

UL Apex Co., Ltd.
Head Office EMC Lab. No.4 Shielded Room

COMPANY : Sony EMCS Corp. SaitamaTEC
EQUIPMENT : Compact Disc Receiver
MODEL : HCD-BX5BT
S/N : 1
POWER : AC120V / 60Hz
MODE : Tx(Hopping Off)/Inquiry
REGULATION : FCC15.247(b)(1)/RSS-210A8.4(2)
TEST DISTANCE : -
DATE : 12/17/2006
TEMPERATURE : 21.5deg.C
HUMIDITY : 37%
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	-13.25	3.12	10.14	0.01	1.00	20.97	125	20.96
Mid	2441.0	-13.45	3.13	10.14	-0.18	0.96	20.97	125	21.15
High	2480.0	-13.30	3.14	10.14	-0.02	1.00	20.97	125	20.99
Inquiry	2441.0	-13.80	3.13	10.14	-0.53	0.89	20.97	125	21.50

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)
Ch: Low

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

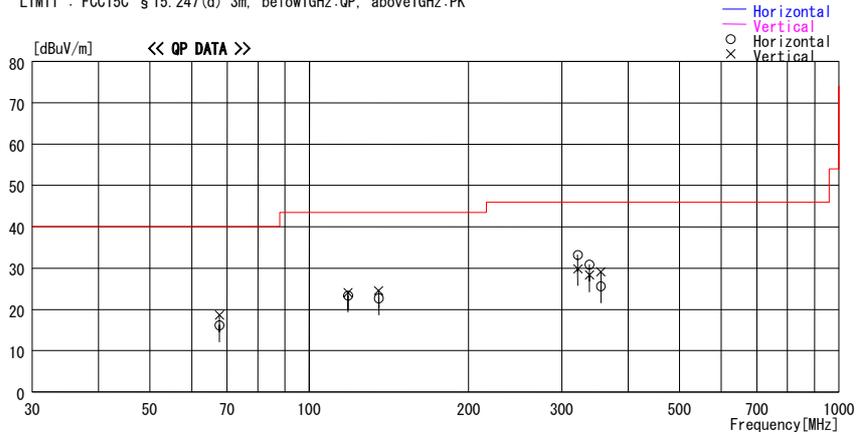
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/12/15 11:40:48

Applicant : Sony EMCS Corp. Saitama TEC
Kind of EUT : Compact Disc Receiver
Model No. : HCD-BX5BT
Serial No. : 1
Report No. : 27EE0057-HO
Power : AC 120V / 60Hz
Temp./Humi. : 22deg. C / 45%
Operator : Motoya Imura

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]						
67.695	30.6	QP	7.2	-21.6	16.2	270	311	Hori.	40.0	23.8
67.690	33.0	QP	7.2	-21.6	18.6	240	100	Vert.	40.0	21.4
118.438	31.7	QP	12.7	-21.0	23.4	103	260	Hori.	43.5	20.1
118.450	32.3	QP	12.7	-21.0	24.0	0	100	Vert.	43.5	19.5
135.299	29.7	QP	13.8	-20.8	22.7	174	300	Hori.	43.5	20.8
135.372	31.5	QP	13.8	-20.8	24.5	0	100	Vert.	43.5	19.0
321.517	37.2	QP	15.3	-19.3	33.2	233	118	Hori.	46.0	12.8
321.501	33.8	QP	15.3	-19.3	29.8	293	161	Vert.	46.0	16.2
338.430	34.5	QP	15.9	-19.5	30.9	256	105	Hori.	46.0	15.2
338.440	31.9	QP	15.9	-19.5	28.3	142	152	Vert.	46.0	17.7
355.353	28.7	QP	16.5	-19.6	25.6	152	100	Hori.	46.0	20.4
355.364	32.2	QP	16.5	-19.6	29.1	0	100	Vert.	46.0	17.0

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.

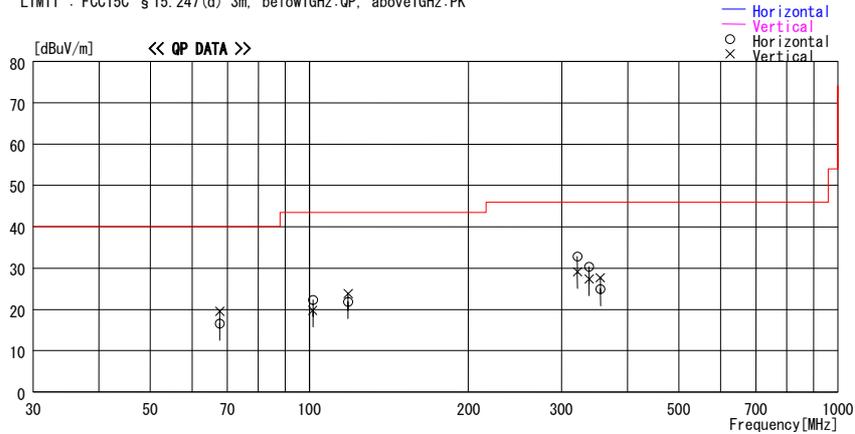
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/12/15 13:43:39

Applicant : Sony EMCS Corp. Saitama TEC
Kind of EUT : Compact Disc Receiver
Model No. : HCD-BX5BT
Serial No. : 1
Report No. : 27EE0057-HO
Power : AC 120V / 60Hz
Temp./Humi. : 22deg. C / 45%
Operator : Motoya Imura

Mode / Remarks : Transmitting 2441MHz

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]						
67.644	31.0	QP	7.2	-21.6	16.6	330	300	Hori.	40.0	23.4
67.700	33.9	QP	7.2	-21.6	19.5	159	100	Vert.	40.0	20.5
101.530	33.2	QP	10.3	-21.2	22.3	120	279	Hori.	43.5	21.2
101.533	30.7	QP	10.3	-21.2	19.8	350	100	Vert.	43.5	23.7
118.450	30.1	QP	12.7	-21.0	21.8	100	270	Hori.	43.5	21.7
118.445	32.1	QP	12.7	-21.0	23.8	0	100	Vert.	43.5	19.7
321.508	36.8	QP	15.3	-19.3	32.8	110	223	Hori.	46.0	13.2
321.500	33.1	QP	15.3	-19.3	29.1	170	160	Vert.	46.0	16.9
338.398	31.0	QP	15.9	-19.5	27.4	145	130	Vert.	46.0	18.6
338.410	33.9	QP	15.9	-19.5	30.3	0	100	Hori.	46.0	15.7
355.355	28.0	QP	16.5	-19.6	24.9	134	100	Hori.	46.0	21.1
355.353	30.8	QP	16.5	-19.6	27.7	359	100	Vert.	46.0	18.3

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.

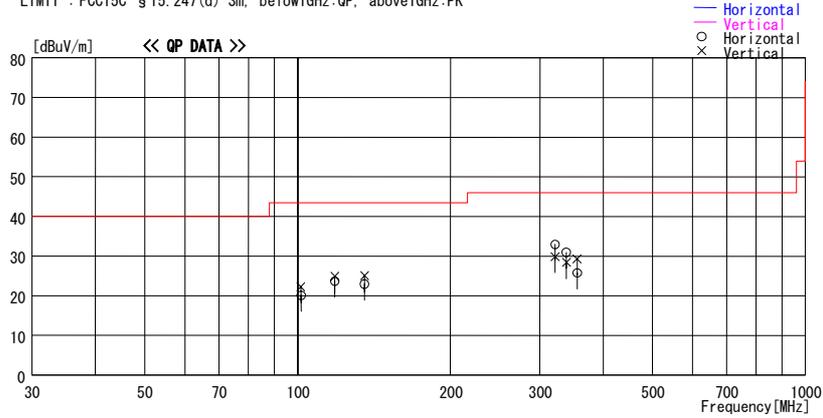
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2006/12/15 14:17:12

Applicant : Sony EMCS Corp. Saitama TEC
Kind of EUT : Compact Disc Receiver
Model No. : HCD-BX5BT
Serial No. : 1
Report No. : 27EE0057-HO
Power : AC 120V / 60Hz
Temp./Humi. : 22deg.C / 45%
Operator : Motoya Imura

Mode / Remarks: Transmitting 2480MHz

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



Frequency [MHz]	Reading [dBuV]	DET	Antenna Factor [dB/m]	Loss & Gain [dB]	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]
101.530	31.0	QP	10.3	-21.2	20.1	270	300	Hori.	43.5	23.4
101.533	33.2	QP	10.3	-21.2	22.3	240	100	Vert.	43.5	21.2
118.450	32.0	QP	12.7	-21.0	23.7	0	300	Hori.	43.5	19.8
118.450	33.2	QP	12.7	-21.0	24.9	0	100	Vert.	43.5	18.6
135.400	30.0	QP	13.8	-20.8	23.0	180	311	Hori.	43.5	20.5
135.411	32.1	QP	13.8	-20.8	25.1	0	100	Vert.	43.5	18.4
321.520	37.0	QP	15.3	-19.3	33.0	240	120	Hori.	46.0	13.0
321.520	33.9	QP	15.3	-19.3	29.9	300	161	Vert.	46.0	16.1
338.442	34.6	QP	15.9	-19.5	31.0	260	100	Hori.	46.0	15.0
338.442	32.0	QP	15.9	-19.5	28.4	150	150	Vert.	46.0	17.6
355.353	28.9	QP	16.5	-19.6	25.8	160	100	Hori.	46.0	20.2
355.353	32.4	QP	16.5	-19.6	29.3	0	100	Vert.	46.0	16.7

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 : 27EE0057-HO
Equipment : Compact Disc Receiver REGULATION : Fcc Part15 Subpart C 15.247(d)
Model : HCD-BX5BT TEST DISTANCE : 3/1m
Sample No. : 1 DATE : 12/08/2006
Power : AC 120 V / 60 Hz TEMPERATURE : 22deg.C
Mode : Bluetooth, Tx 2402MHz HUMIDITY : 45%
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	1602.0	49.8	50.5	25.1	33.7	1.8	0.0	43.0	43.7	74.0	31.0	30.3
2	2390.0	43.9	42.4	26.6	32.7	2.1	0.0	39.9	38.4	74.0	34.1	35.6
3*	2400.0	74.8	66.4	26.6	32.7	2.1	0.0	70.8	62.4	74.0	-	-
4	3204.0	44.2	45.0	27.8	32.2	2.5	0.0	42.3	43.1	74.0	31.7	30.9
5	4804.0	NS	NS	30.8	31.5	3.2	0.0	-	-	74.0	-	-
6	7206.0	NS	NS	35.2	32.4	3.9	0.0	-	-	74.0	-	-
7	9608.0	NS	NS	37.6	33.0	4.8	0.0	-	-	74.0	-	-
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	45.1	45.4	39.1	31.9	7.9	0.0	50.7	51.0	74.0	23.3	23.0

* 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	1602.0	44.7	47.3	25.1	33.7	1.8	0.0	37.9	40.5	54.0	16.1	13.5
2	2390.0	32.2	31.0	26.6	32.7	2.1	0.0	28.2	27.0	54.0	25.8	27.0
3*	2400.0	63.7	56.3	26.6	32.7	2.1	0.0	59.7	52.3	54.0	-	-
4	3204.0	33.6	36.6	27.8	32.2	2.5	0.0	31.7	34.7	54.0	22.3	19.3
5	4804.0	NS	NS	30.8	31.5	3.2	0.0	-	-	54.0	-	-
6	7206.0	NS	NS	35.2	32.4	3.9	0.0	-	-	54.0	-	-
7	9608.0	NS	NS	37.6	33.0	4.8	0.0	-	-	54.0	-	-
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	33.1	39.1	31.9	7.9	0.0	38.7	38.7	54.0	15.3	15.3

* 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	99.1	90.7	26.6	32.7	2.1	0.0	95.1	86.7	-	-	-
3	2400.0	58.8	50.2	26.6	32.7	2.1	0.0	54.8	46.2	Funda-20dB	20.3	20.5

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 second 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	: 27EE0057-HO
Equipment	: Compact Disc Receiver	REGULATION	: Fcc Part15 Subpart C 15.247(d)
Model	: HCD-BX5BT	TEST DISTANCE	: 3/1m
Sample No.	: 1	DATE	: 12/08/2006
Power	: AC 120 V / 60 Hz	TEMPERATURE	: 22deg.C
Mode	: Bluetooth, Tx 2441MHz	HUMIDITY	: 45%
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
		[dBuV]						[dBuV/m]		[dB]		
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1628.0	48.2	49.9	25.2	33.6	1.8	0.0	41.6	43.3	74.0	32.4	30.7
2	3256.0	45.7	46.9	27.9	32.2	2.5	0.0	43.9	45.1	74.0	30.1	28.9
3	4882.0	NS	NS	31.0	31.5	3.2	0.0	-	-	74.0	-	-
4	7323.0	NS	NS	35.4	32.5	3.9	0.0	-	-	74.0	-	-
5	9764.0	NS	NS	37.6	33.1	4.9	0.0	-	-	74.0	-	-
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	45.2	45.9	39.1	31.7	8.0	0.0	51.1	51.8	74.0	22.9	22.2

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
		[dBuV]						[dBuV/m]		[dB]		
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1628.0	42.7	45.9	25.2	33.6	1.8	0.0	36.1	39.3	54.0	17.9	14.7
2	3256.0	37.0	39.7	27.9	32.2	2.5	0.0	35.2	37.9	54.0	18.8	16.1
3	4882.0	NS	NS	31.0	31.5	3.2	0.0	-	-	54.0	-	-
4	7323.0	NS	NS	35.4	32.5	3.9	0.0	-	-	54.0	-	-
5	9764.0	NS	NS	37.6	33.1	4.9	0.0	-	-	54.0	-	-
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 second 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

Company	: Sony EMCS Corporation Saitama TEC	REPORT NO	: 27EE0057-HO
Equipment	: Compact Disc Receiver	REGULATION	: Fcc Part15 Subpart C 15.247(d)
Model	: HCD-BX5BT	TEST DISTANCE	: 3/1m
Sample No.	: 1	DATE	: 12/08/2006
Power	: AC 120 V / 60 Hz	TEMPERATURE	: 22deg.C
Mode	: Bluetooth, Tx 2480MHz	HUMIDITY	: 45%
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	1654.0	51.3	49.2	25.2	33.6	1.8	0.0	44.7	42.6	74.0	29.3	31.4
2	2483.5	59.9	52.7	26.8	32.6	2.2	0.0	56.3	49.1	74.0	17.7	24.9
3	3308.0	44.9	45.8	27.9	32.1	2.6	0.0	43.3	44.2	74.0	30.7	29.8
4	4960.0	NS	NS	31.1	31.5	3.2	1.4	-	-	74.0	-	-
5	7440.0	NS	NS	35.6	32.5	4.0	1.1	-	-	74.0	-	-
6	9920.0	NS	NS	37.7	33.1	4.9	1.2	-	-	74.0	-	-
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	46.1	46.2	39.3	31.4	8.1	0.0	52.6	52.7	74.0	21.4	21.3

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]	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	1654.0	48.1	44.9	25.2	33.6	1.8	0.0	41.5	38.3	54.0	12.5	15.7
2	2483.5	52.7	45.0	26.8	32.6	2.2	0.0	49.1	41.4	54.0	4.9	12.6
3	3308.0	36.3	38.6	27.9	32.1	2.6	0.0	34.7	37.0	54.0	19.3	17.0
4	4960.0	NS	NS	31.1	31.5	3.2	1.4	-	-	54.0	-	-
5	7440.0	NS	NS	35.6	32.5	4.0	1.1	-	-	54.0	-	-
6	9920.0	NS	NS	37.7	33.1	4.9	1.2	-	-	54.0	-	-
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	33.6	33.6	39.3	31.4	8.1	0.0	40.1	40.1	54.0	13.9	13.9

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 second 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.

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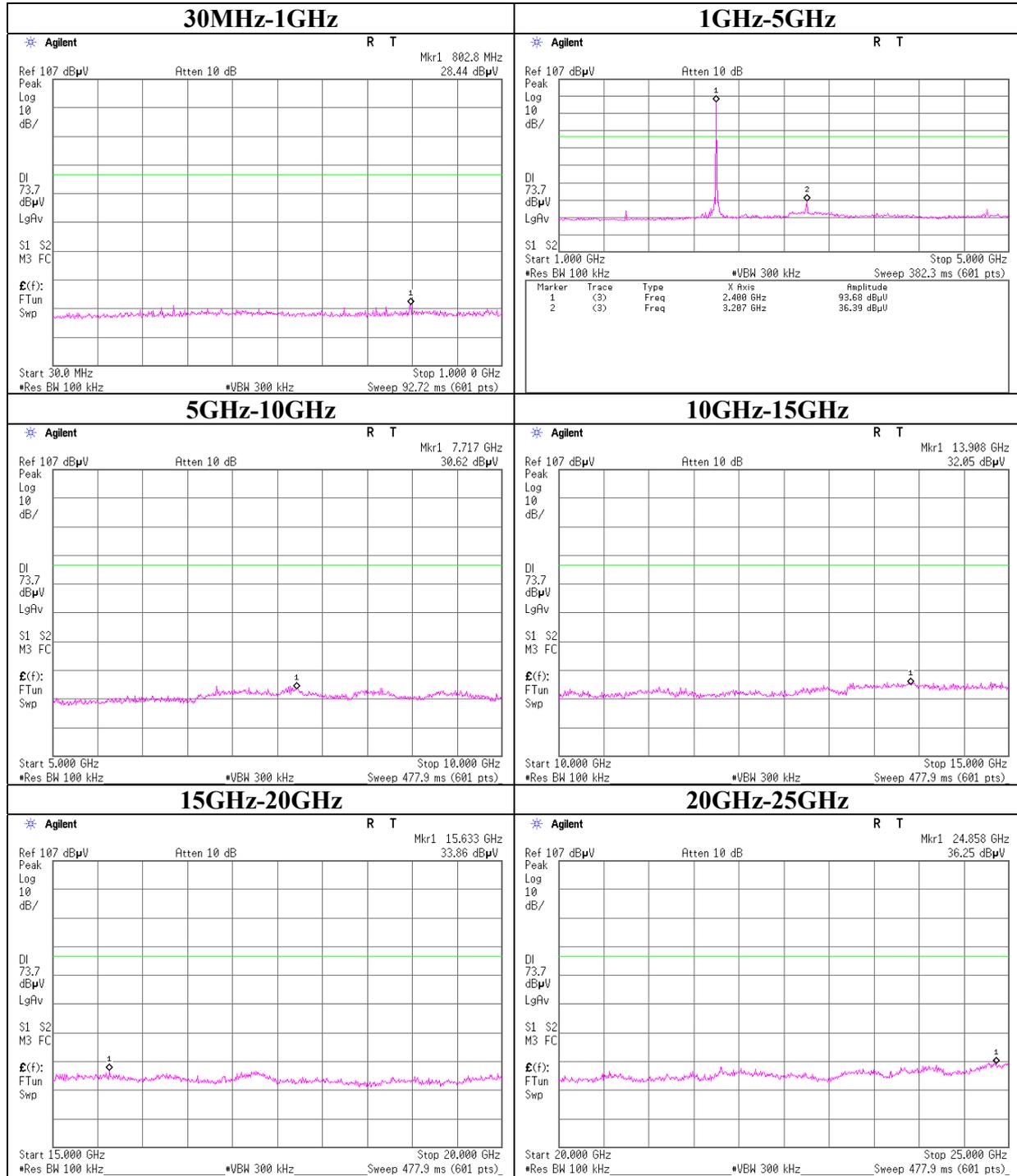
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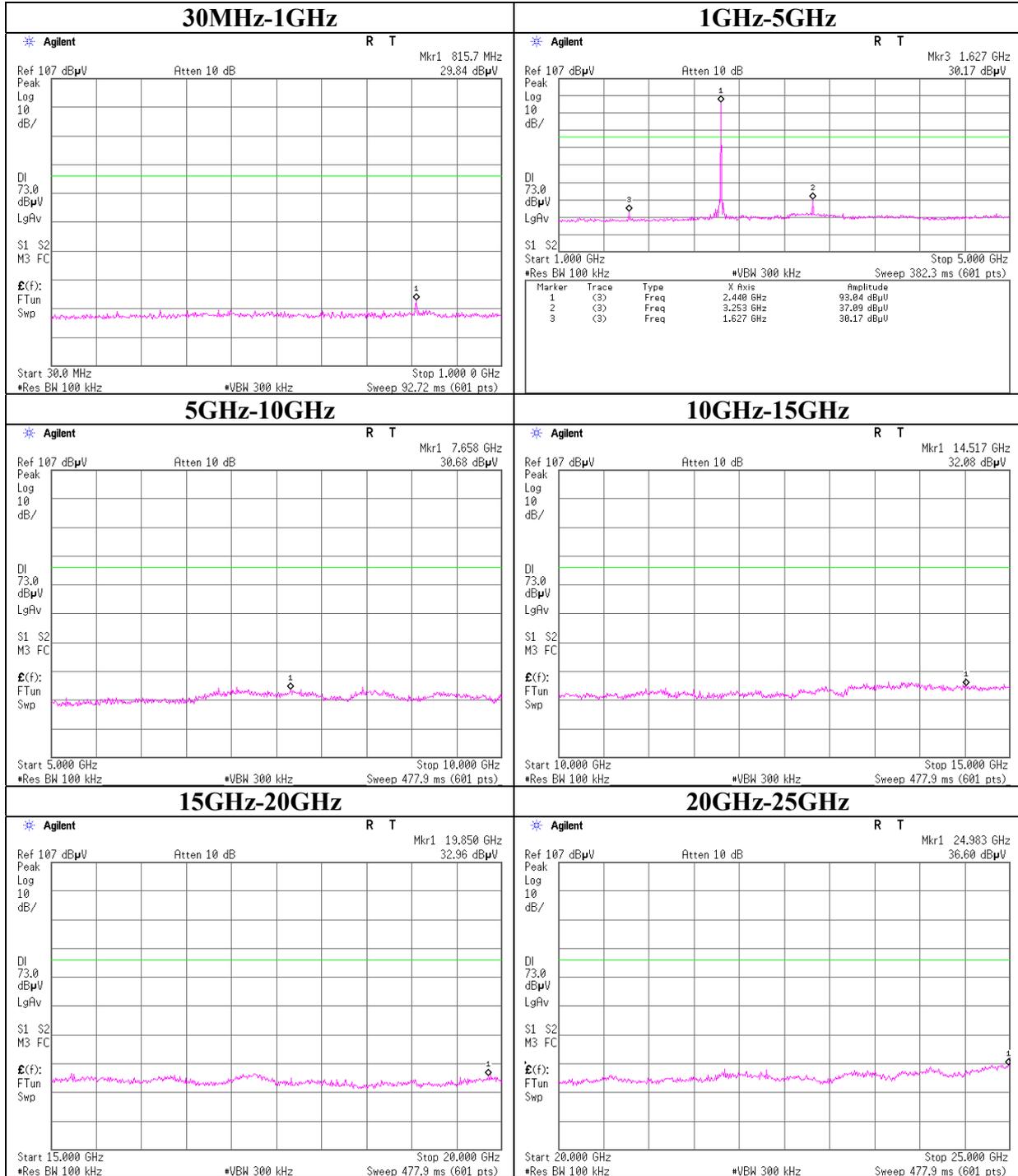
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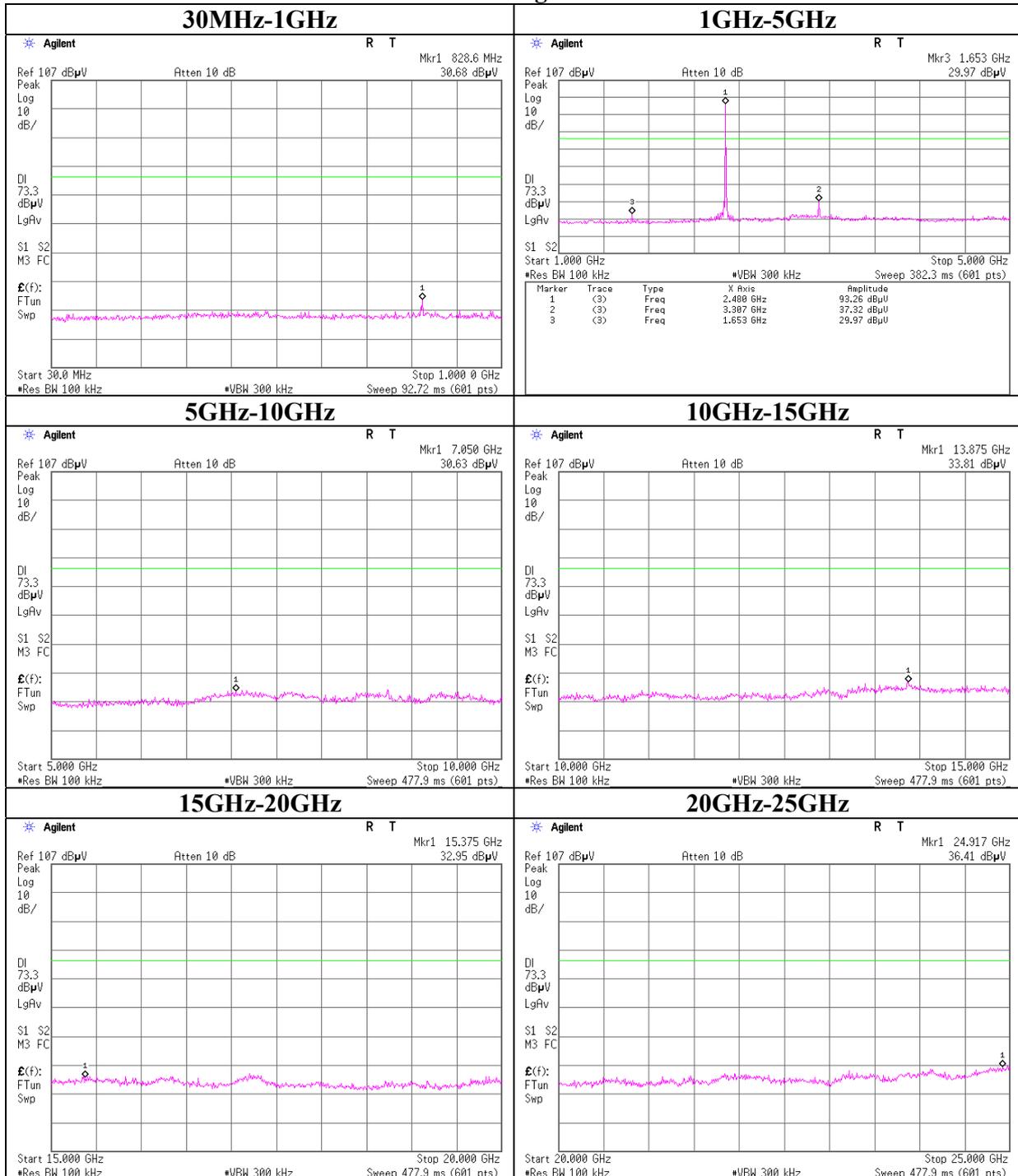
Conducted Spurious Emission
Ch:Low



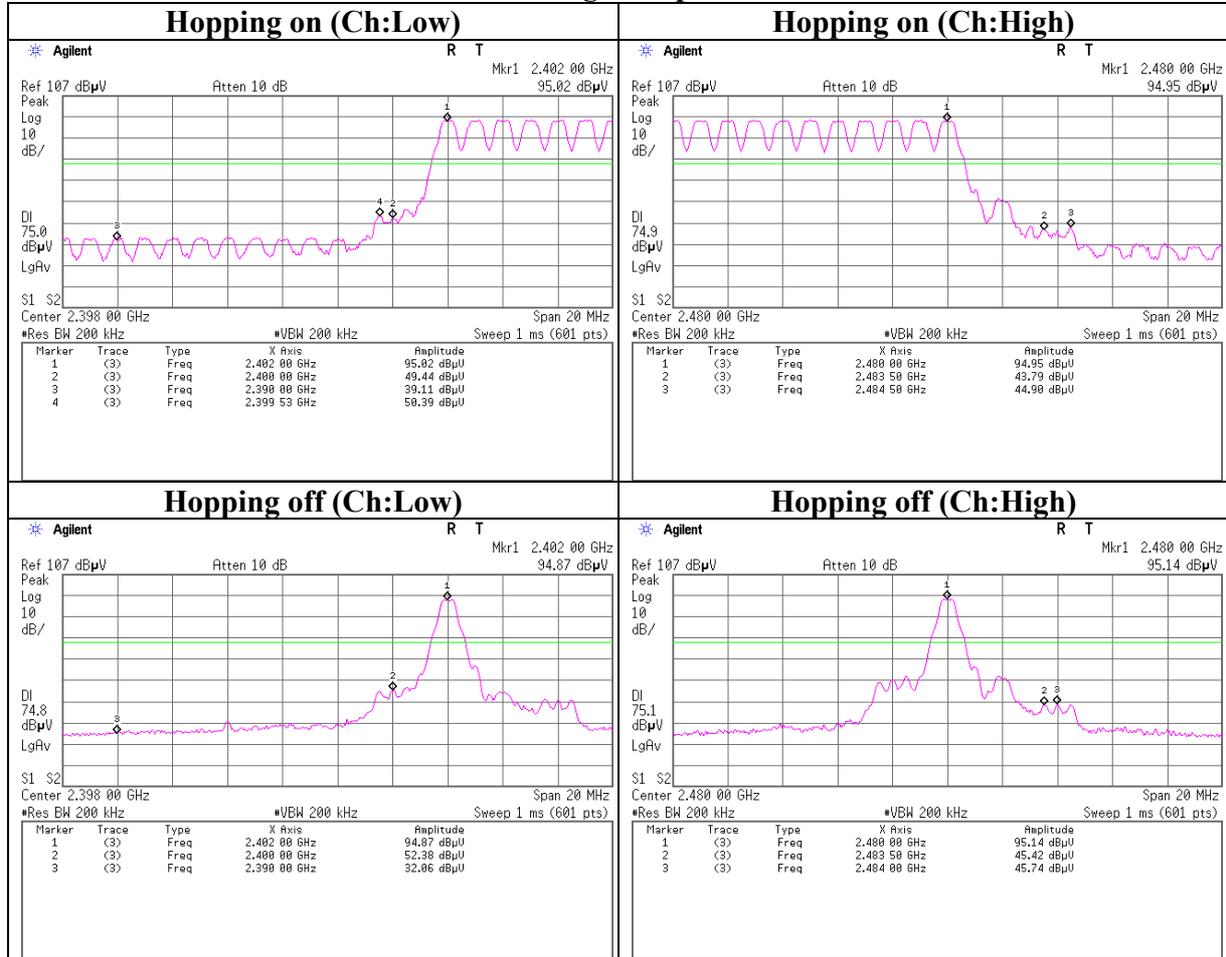
Conducted Spurious Emission
Ch:Mid



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/CE	-
MJM-07	Measure	PROMART	SEN1955	RE	-
MAEC-02	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE/CE	2006/04/10 * 12
MBA-02	Biconical Antenna	Schwarzbeck	BBA9106	RE	2006/10/07 * 12
MLA-02	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2006/10/07 * 12
MAT-07	Attenuator(6dB)	Weinschel Corp	2	RE	2005/12/16 * 12
MCC-12	Coaxial Cable	Fujikura/Agilent	-	RE	2006/02/23 * 12
MPA-09	Pre Amplifier	Agilent	8447D	RE	2006/09/07 * 12
MOS-02	Digital Humidity Indicator	N.T	NT-1800	RE/CE	2006/11/27 * 12
MSA-05	Spectrum Analyzer	Advantest	R3273	RE/CE	2006/05/20 * 12
MTR-03	Test Receiver	Rohde & Schwarz	ESCI	RE/CE	2006/03/04 * 12
MCC-13	Coaxial Cable	Fujikura/Agilent	-	CE	2006/02/23 * 12
MLS-07	LISN(AMN)	Schwarzbeck	NSLK8127	CE (EUT)	2006/02/06 * 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
MSA-03	Spectrum Analyzer	Agilent	E4448A	AT	2006/09/13 * 12
MOS-15	Thermo-Hygrometer	Custom	CTH-180	AT	2006/01/19 * 24
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

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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