

APPENDIX 2: Data of EMI test

Conducted Emission

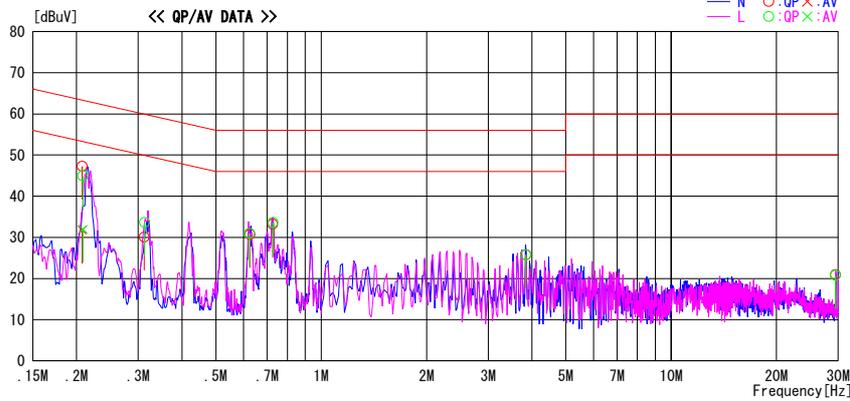
DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2006/11/13 10:50:06

Applicant : Sony EMCS Corporation Saitama TEC
Kind of EUT : Wireless Speaker System
Model No. : SRS-BTM30
Serial No. : 002
Report No. : 27CE0097-HO
Power : AC120V / 60Hz (AC Adaptor)
Temp./Humi. : 20deg. C / 46%
Operator : Hiroka Umeyama

Mode / Remarks : Tx 2402MHz

LIMIT : FCC15C § 15.207 (QP)
FCC15C § 15.207 (AV)



Frequency [MHz]	Reading Level		Corr. Factor [dB]	Results		Limit		Margin		Phase
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]	
0.20761	47.1	31.6	0.2	47.3	31.8	63.3	53.3	16.0	21.5	N
0.31222	29.8	---	0.3	30.1	---	59.9	---	29.8	---	N
0.62531	30.4	---	0.3	30.7	---	56.0	---	25.3	---	N
0.72710	32.9	---	0.3	33.2	---	56.0	---	22.8	---	N
3.84458	25.3	---	0.5	25.8	---	56.0	---	30.2	---	N
29.48873	19.3	---	1.6	20.9	---	60.0	---	39.1	---	N
0.20854	44.7	31.8	0.2	44.9	32.0	63.3	53.3	18.4	21.3	L
0.31294	33.3	---	0.3	33.6	---	59.9	---	26.3	---	L
0.62423	30.7	---	0.3	31.0	---	56.0	---	25.0	---	L
0.72760	33.3	---	0.3	33.6	---	56.0	---	22.4	---	L
3.84683	25.3	---	0.5	25.8	---	56.0	---	30.2	---	L
29.48906	19.2	---	1.6	20.8	---	60.0	---	39.2	---	L

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

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.3 Semi Anechoic Chamber
 Date : 2006/11/13 10:43:17

Applicant : Sony EMCS Corporation Saitama TEC	Report No. : 27CE0097-HO
Kind of EUT : Wireless Speaker System	Power : AC120V / 60Hz (AC Adaptor)
Model No. : SRS-BTM30	Temp./Humi. : 20deg. C / 46%
Serial No. : 002	Operator : Hiroka Umeyama

Mode / Remarks : Tx 2441MHz

LIMIT : FCC15C § 15.207 (QP)
 FCC15C § 15.207 (AV)

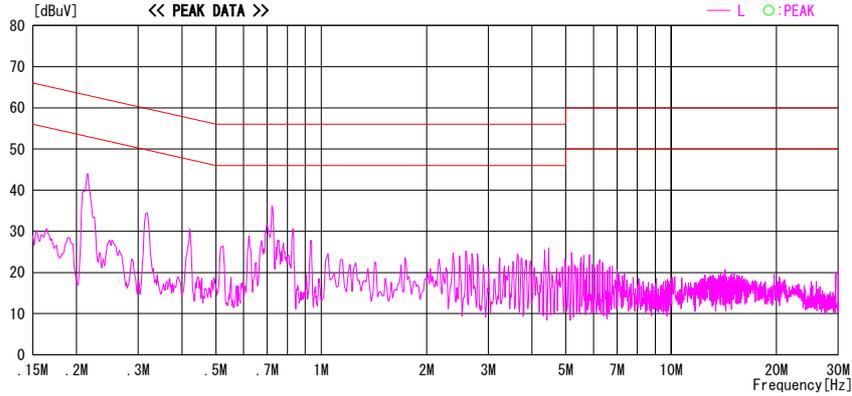
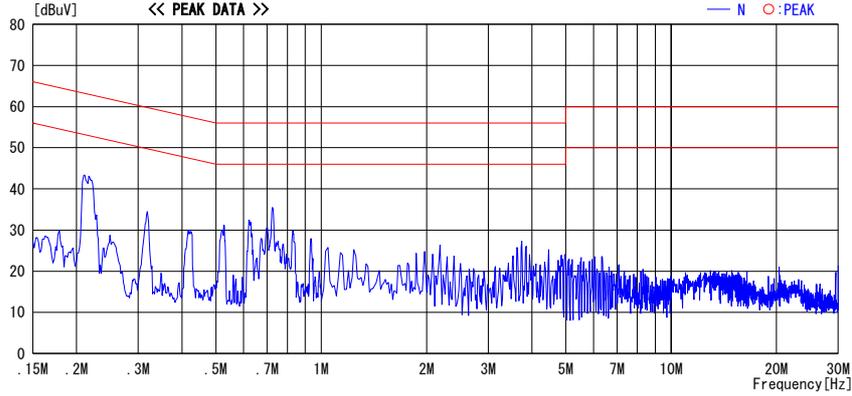


CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCULATION: RESULT=READING+C.F (LISN LOSS+CABLE LOSS)
 Except for the above table : adequate margin data below the limits.

Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.3 Semi Anechoic Chamber
 Date : 2006/11/13 10:36:38

Applicant : Sony EMCS Corporation Saitama TEC Kind of EUT : Wireless Speaker System Model No. : SRS-BTM30 Serial No. : 002	Report No. : 27CE0097-HO Power : AC120V / 60Hz (AC Adaptor) Temp./Humi. : 20deg. C / 46% Operator : Hiroka Umeyama
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Mode / Remarks : Tx 2480MHz

LIMIT : FCC15C § 15.207 (QP)
 FCC15C § 15.207 (AV)

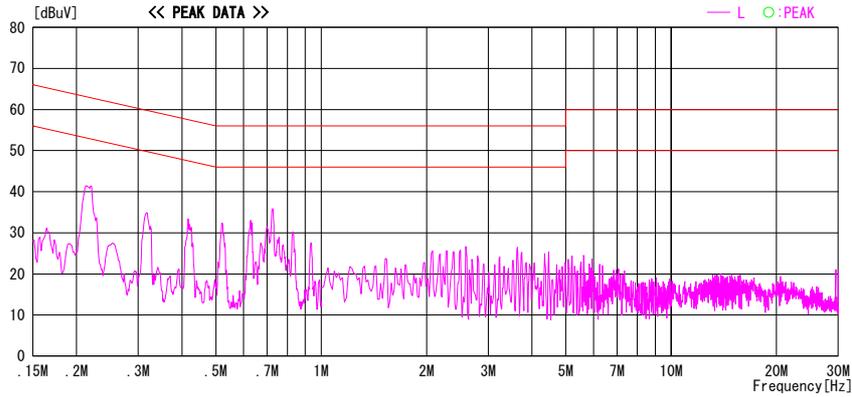
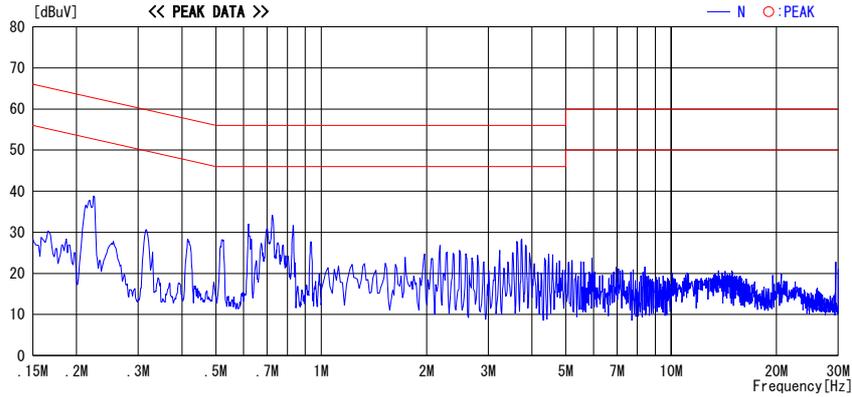


CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCULATION: RESULT=READING+C.F (LISN LOSS+CABLE LOSS)
 Except for the above table : adequate margin data below the limits.

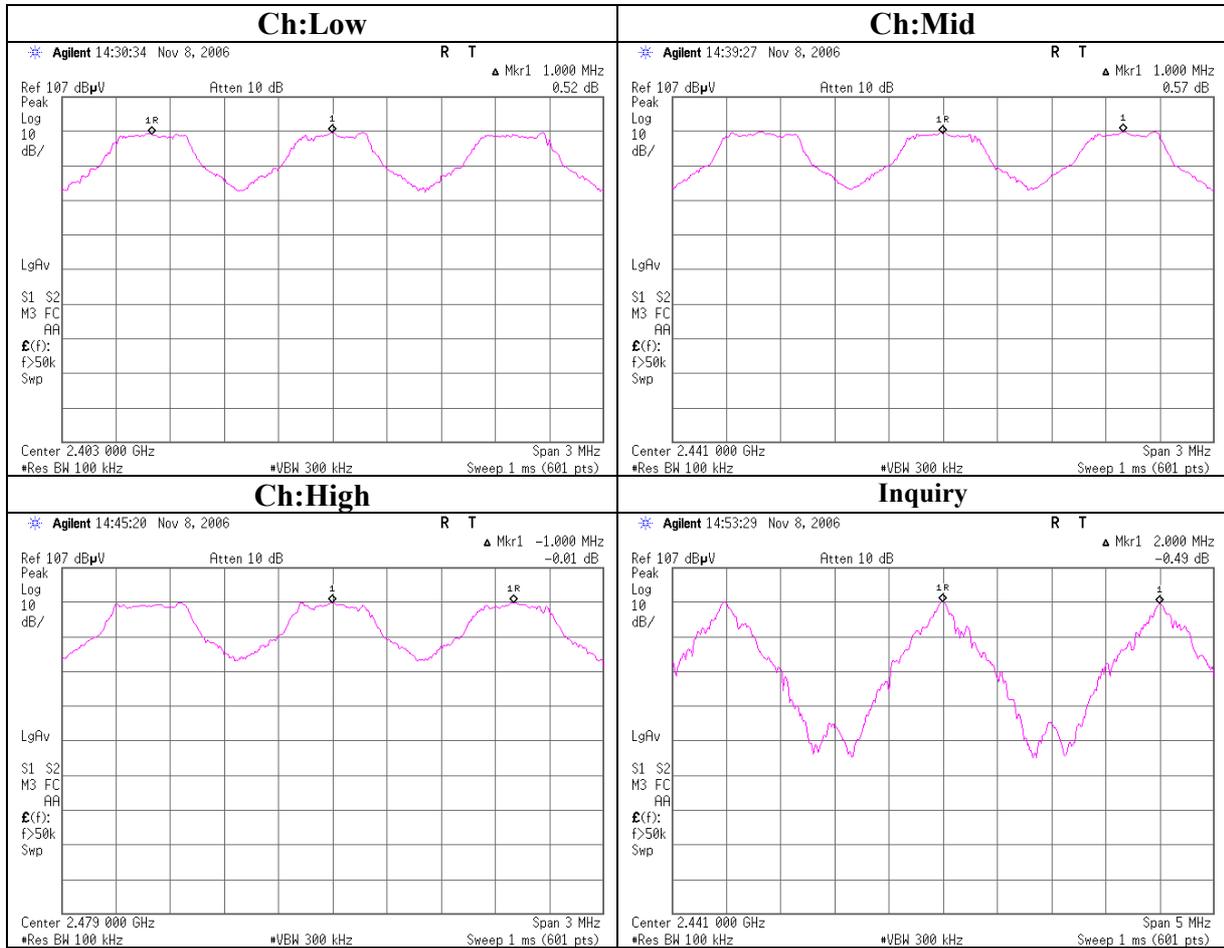
Carrier Frequency Separation

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

COMPANY : Sony EMCS Corporation Saitama TEC REGULATION : FCC15.247(a)(1)/RSS-210A8.1(2)
EQUIPMENT : Wireless Speaker System TEST DISTANCE : -
MODEL : SRS-BTM30 DATE : 11/08/2006
S/ N : 001 TEMPERATURE : 22deg.C
POWER : AC120V/60Hz (BT Module DC1.8V) HUMIDITY : 30%
MODE : Tx (Hopping on) /Inquiry ENGINEER : Shinya Watanabe

Ch	Freq. [MHz]	Channel separation [MHz]	Limit
Low	2402.0	1.000	>two-thirds of 0.867[MHz](20dB Bandwidth) or 25[kHz](whichever is greater)
Mid	2441.0	1.000	>two-thirds of 0.870[MHz](20dB Bandwidth) or 25[kHz](whichever is greater)
High	2480.0	1.000	>two-thirds of 0.869[MHz](20dB Bandwidth) or 25[kHz](whichever is greater)
Inquiry	2441.0	2.000	>two-thirds of 0.759[MHz](20dB Bandwidth) or 25[kHz](whichever is greater)

Carrier Frequency Separation



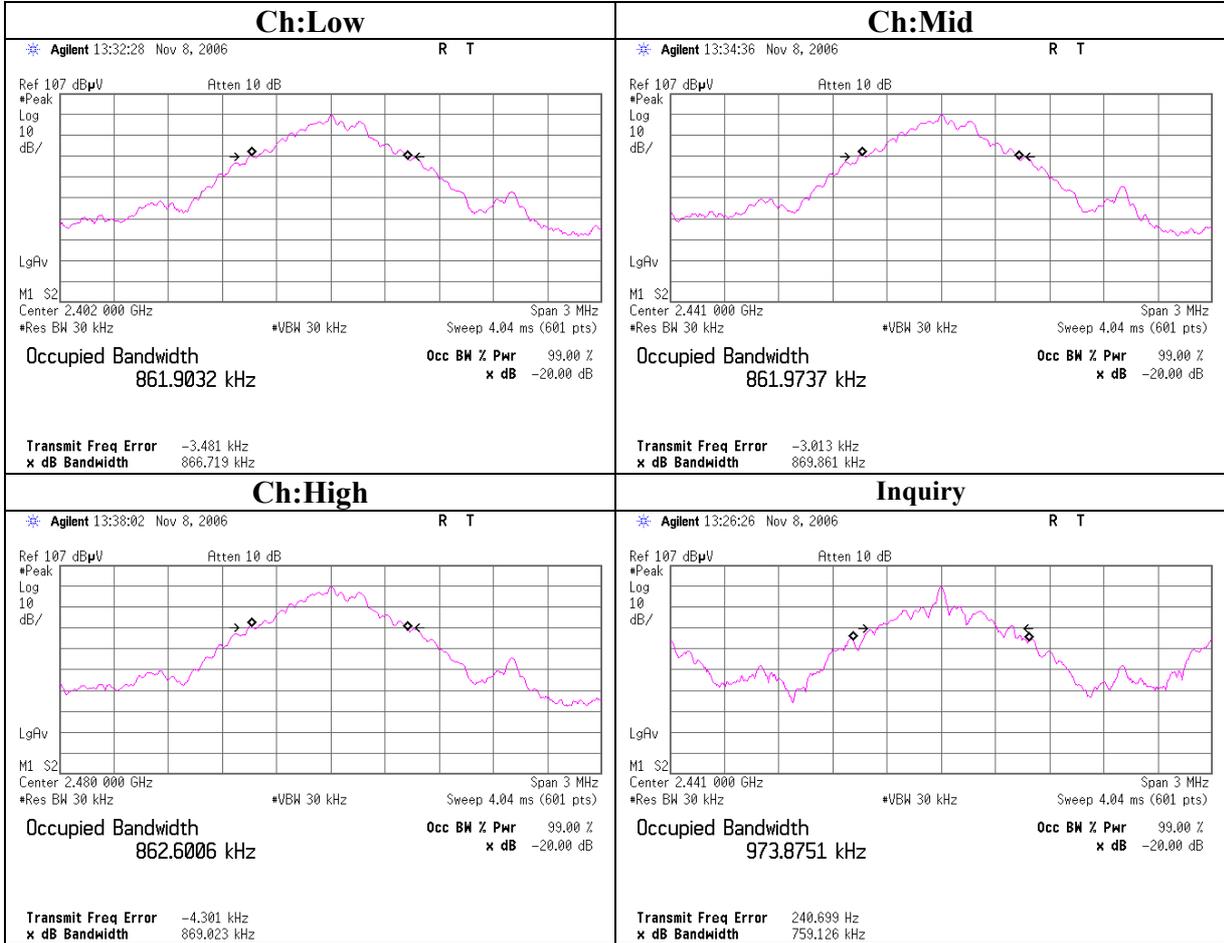
20dB Bandwidth

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

COMPANY	: Sony EMCS Corporation Saitama TEC	REGULATION	: FCC15.247(a)(1)/RSS-210A8.1(1)
EQUIPMENT	: Wireless Speaker System	TEST DISTANCE	: -
MODEL	: SRS-BTM30	DATE	: 11/08/2006
S/N	: 001	TEMPERATURE	: 22deg.C
POWER	: AC120V/60Hz(BT Module DC1.8V)	HUMIDITY	: 30%
MODE	: Tx (Hopping off) /Inquiry	ENGINEER	: Shinya Watanabe

Ch	Freq. [MHz]	20dB Bandwidth [MHz]	Limit [MHz]
Low	2402.0	0.867	-
Mid	2441.0	0.870	-
High	2480.0	0.869	-
Inquiry	2441.0	0.759	-

20dB Bandwidth



Number of Hopping Frequency

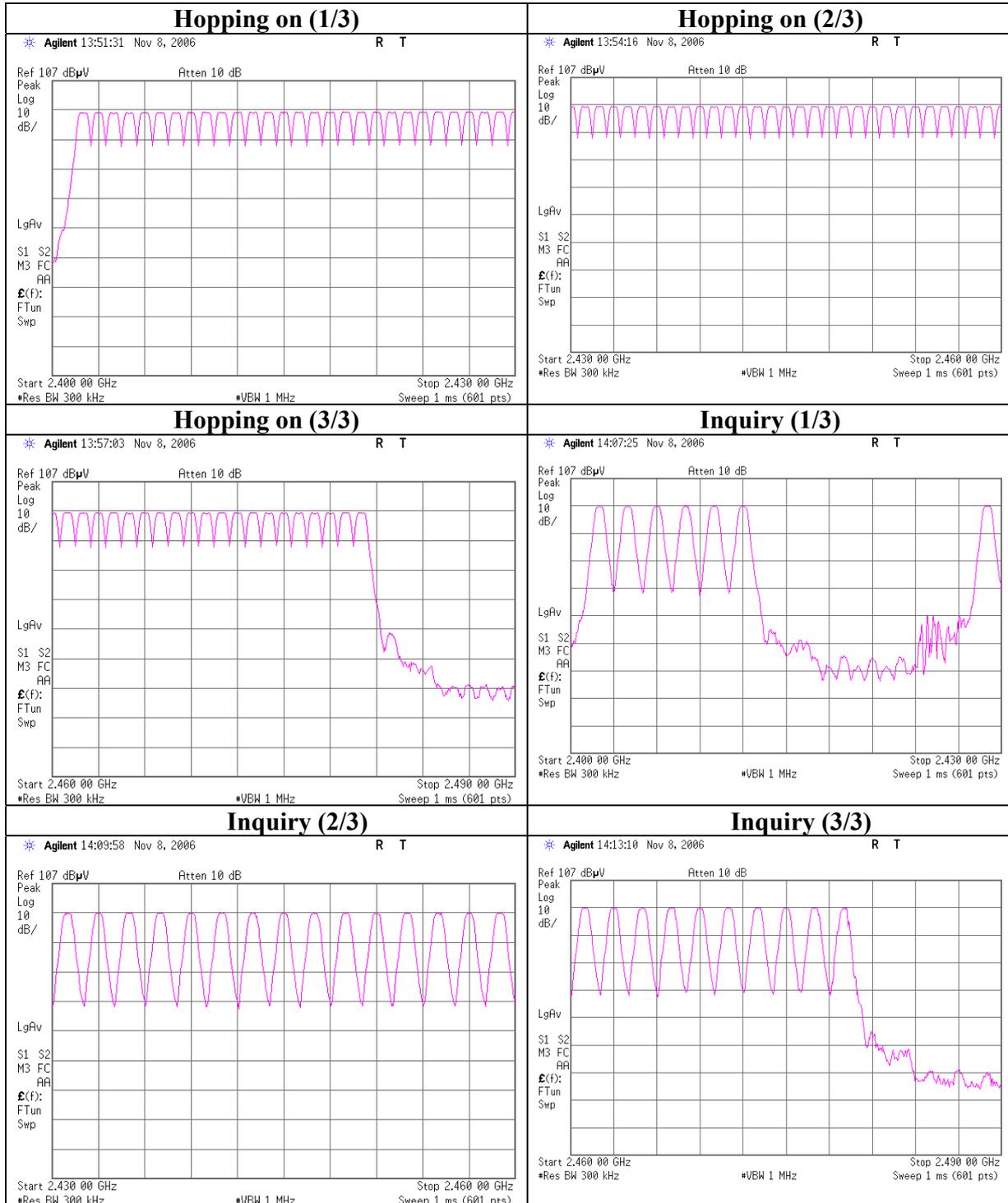
UL Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded Room

COMPANY	: Sony EMCS Corporation Saitama TEC	REGULATION	: FCC15.247(a)(1)(iii)/RSS-210A8.1(4)
EQUIPMENT	: Wireless Speaker System	TEST DISTANCE	: -
MODEL	: SRS-BTM30	DATE	: 11/08/2006
S/N	: 001	TEMPERATURE	: 22deg.C
POWER	: AC120V/60Hz(BT Module DC1.8V)	HUMIDITY	: 30%
MODE	: Tx (Hopping on) /Inquiry	ENGINEER	: Shinya Watanabe

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

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

Number of Hopping Frequency



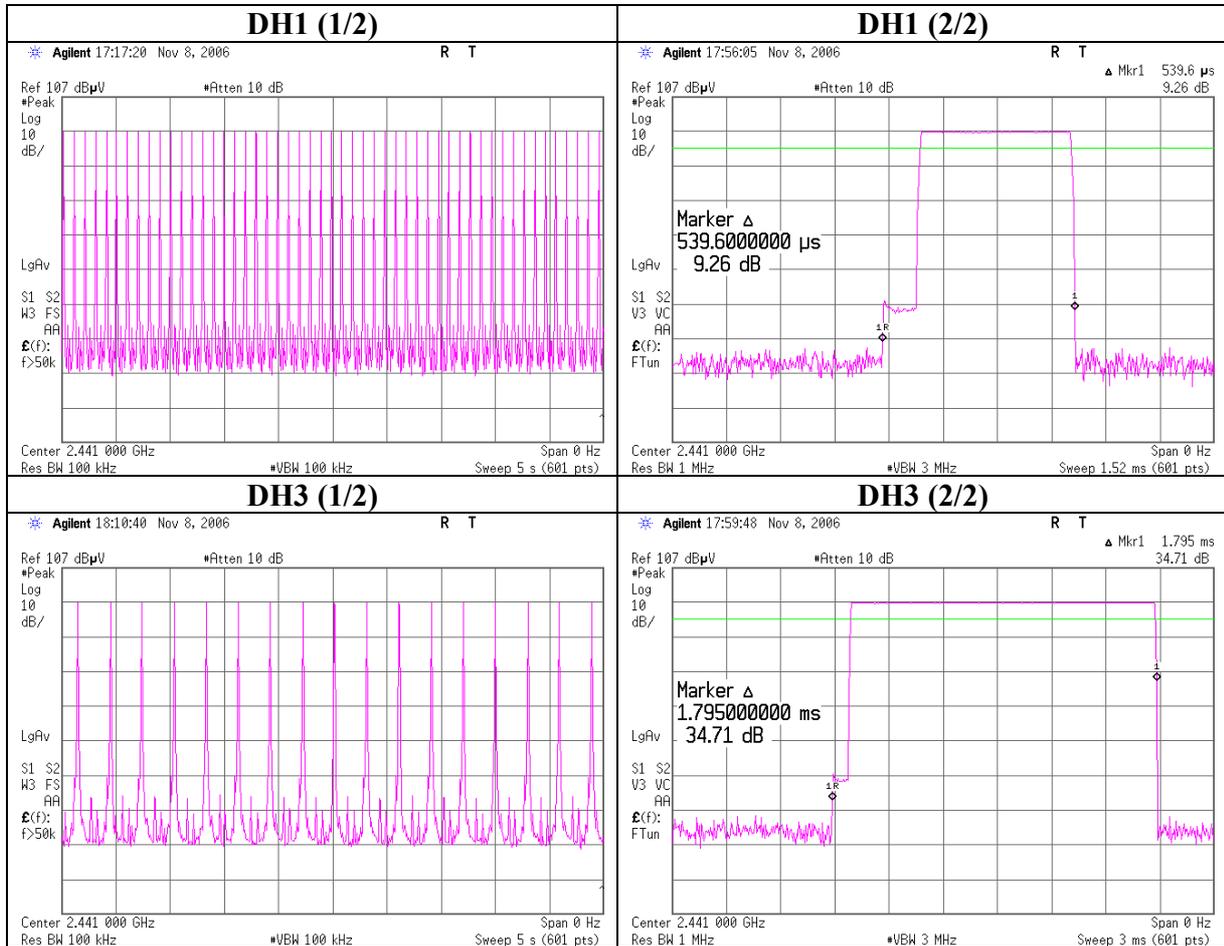
Dwell time

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

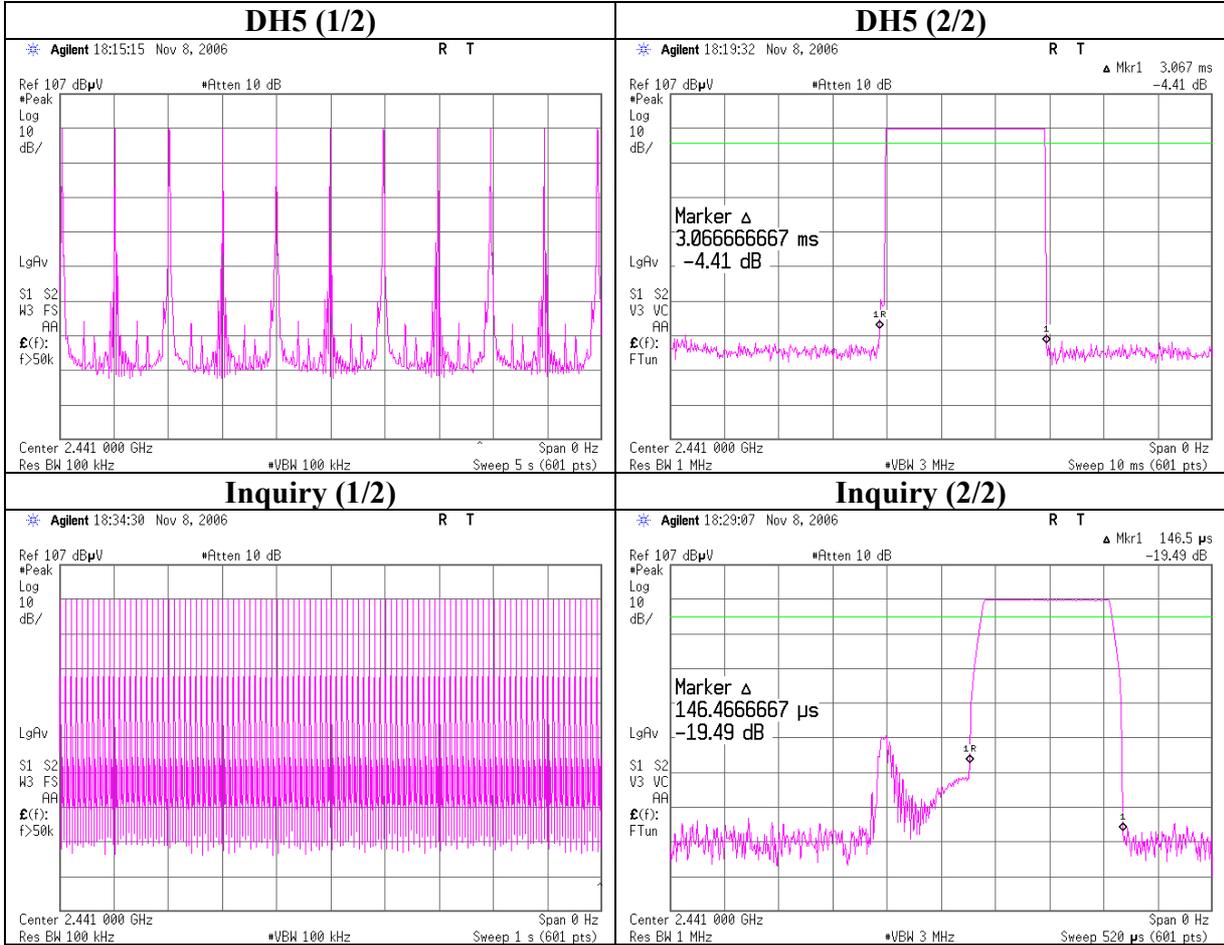
COMPANY : Sony EMCS Corporation Saitama TEC REGULATION : FCC15.247(a)(1)(iii)/RSS-210A8.1(4)
EQUIPMENT : Wireless Speaker System TEST DISTANCE : -
MODEL : SRS-BTM30 DATE : 11/08/2006
S/N : 001 TEMPERATURE : 22deg.C
POWER : AC120V/60Hz(BT Module DC1.8V) HUMIDITY : 30%
MODE : Tx (Hopping on) /Inquiry ENGINEER : 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	51 times / 5 sec. x	31.6 sec. = 323 times	0.540	174	400
DH3	17 times / 5 sec. x	31.6 sec. = 108 times	1.795	194	400
DH5	11 times / 5 sec. x	31.6 sec. = 70 times	3.067	215	400
Inquiry	100 times / 1 sec. x	12.8 sec. = 1280 times	0.146	187	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 Saitama TEC REGULATION : FCC15.247(b)(1)/RSS-210A8.4(2)
EQUIPMENT : Wireless Speaker System TEST DISTANCE : -
MODEL : SRS-BTM30 DATE : 11/08/2006
S/N : 001 TEMPERATURE : 22deg.C
POWER : AC120V/60Hz (BT Module DC1.8V) HUMIDITY : 30%
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	-10.44	0.67	10.14	0.37	1.09	20.97	125	20.60
Mid	2441.0	-10.18	0.67	10.14	0.63	1.16	20.97	125	20.34
High	2480.0	-10.14	0.79	10.14	0.79	1.20	20.97	125	20.18
Inquiry	2441.0	-10.55	0.67	10.14	0.26	1.06	20.97	125	20.71

Sample Calculation:
Result = Reading + Cable Loss + Attenuator

Radiated Spurious Emission (below 1GHz)

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

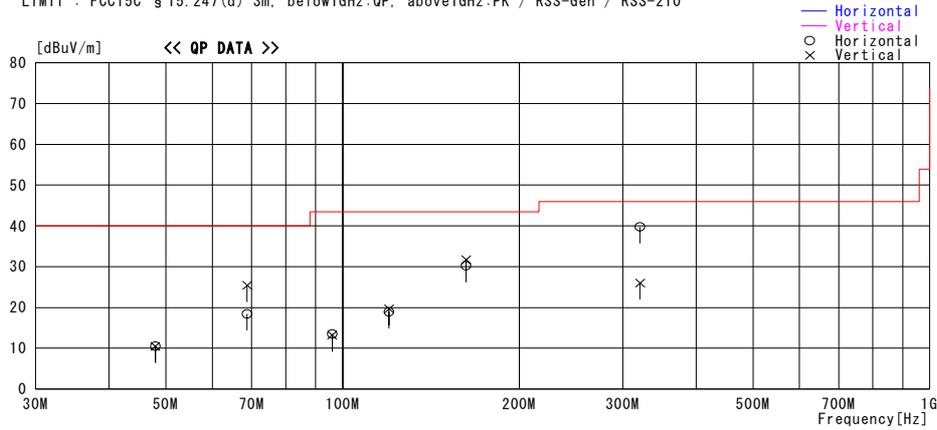
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2006/11/07 10:54:19

Applicant : Sony EMCS Corporation Saitama TEC Report No. : 27CE0097-HO
Kind of EUT : Wireless Speaker System Power : AC120V / 60Hz DC5.2V
Model No. : SRS-BTM30 Temp./Humi. : 21deg. C. / 60%
Serial No. : 002 Operator : Yasuyuki Fukui

Mode / Remarks : Tx 2402MHz V:X-axis H:X-axis

LIMIT : FCC15C § 15.247(d) 3m, below1GHz:QP, above1GHz:PK / RSS-Gen / RSS-210



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]
48.000	24.2	QP	11.2	-24.9	10.5	359	310	Hori.	40.0	29.5
48.000	24.2	QP	11.2	-24.9	10.5	48	100	Vert.	40.0	29.5
68.780	42.6	QP	7.3	-24.5	25.4	0	100	Vert.	40.0	14.6
68.780	35.6	QP	7.3	-24.5	18.4	176	314	Hori.	40.0	21.6
96.000	27.0	QP	10.2	-24.0	13.2	0	100	Vert.	43.5	30.3
96.000	27.3	QP	10.2	-24.0	13.5	359	300	Hori.	43.5	30.0
120.000	29.1	QP	13.5	-23.7	18.9	345	300	Hori.	43.5	24.6
120.000	29.9	QP	13.5	-23.7	19.7	0	100	Vert.	43.5	23.8
162.300	39.2	QP	15.8	-23.3	31.7	39	100	Vert.	43.5	11.8
162.300	37.7	QP	15.8	-23.3	30.2	266	211	Hori.	43.5	13.3
321.100	46.8	QP	15.2	-22.2	39.8	359	100	Hori.	46.0	6.2
321.100	33.0	QP	15.2	-22.2	26.0	117	100	Vert.	46.0	20.0

CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

Radiated Spurious Emission (below 1GHz)

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

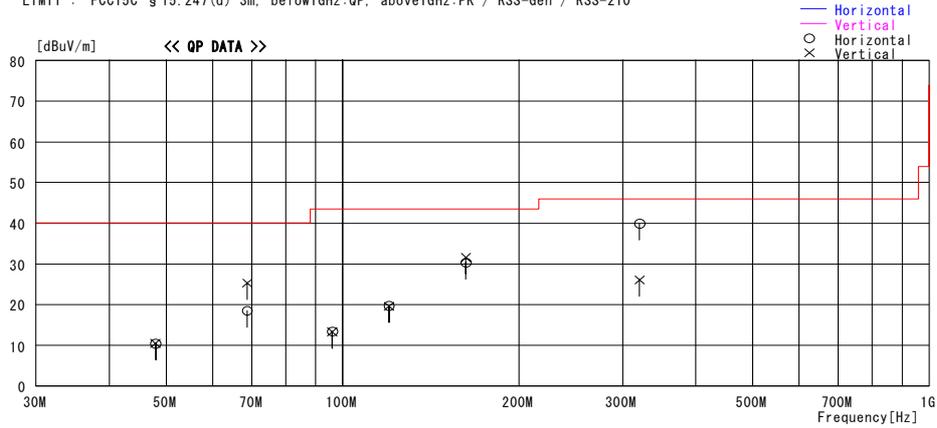
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2006/11/07 11:15:19

Applicant : Sony EMCS Corporation Saitama TEC Report No. : 27CE0097-HO
Kind of EUT : Wireless Speaker System Power : AC120V / 60Hz DC5.2V
Model No. : SRS-BTM30 Temp./Humi. : 21deg.C. / 60%
Serial No. : 002 Operator : Yasuyuki Fukui

Mode / Remarks : Tx 2441MHz V:X-axis H:X-axis

LIMIT : FCC15C § 15.247(d) 3m, below1GHz:QP, above1GHz:PK / RSS-Gen / RSS-210



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit		Margin
			Factor [dB/m]	Loss & Gain [dB]					[dBuV/m]	[dB]	
48.000	24.1	QP	11.2	-24.9	10.4	359	309	Hori.	40.0	29.6	
48.000	24.2	QP	11.2	-24.9	10.5	48	100	Vert.	40.0	29.5	
68.777	42.5	QP	7.3	-24.5	25.3	0	100	Vert.	40.0	14.7	
68.777	35.7	QP	7.3	-24.5	18.5	176	314	Hori.	40.0	21.5	
96.000	27.1	QP	10.2	-24.0	13.3	0	100	Vert.	43.5	30.2	
96.000	27.2	QP	10.2	-24.0	13.4	359	309	Hori.	43.5	30.1	
120.000	29.9	QP	13.5	-23.7	19.7	345	298	Hori.	43.5	23.8	
120.000	29.8	QP	13.5	-23.7	19.6	0	100	Vert.	43.5	23.9	
162.321	39.1	QP	15.8	-23.3	31.6	39	100	Vert.	43.5	11.9	
162.321	37.8	QP	15.8	-23.3	30.3	266	213	Hori.	43.5	13.2	
321.110	46.9	QP	15.2	-22.2	39.9	359	100	Hori.	46.0	6.1	
321.110	33.1	QP	15.2	-22.2	26.1	117	100	Vert.	46.0	19.9	

CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

Radiated Spurious Emission (below 1GHz)

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

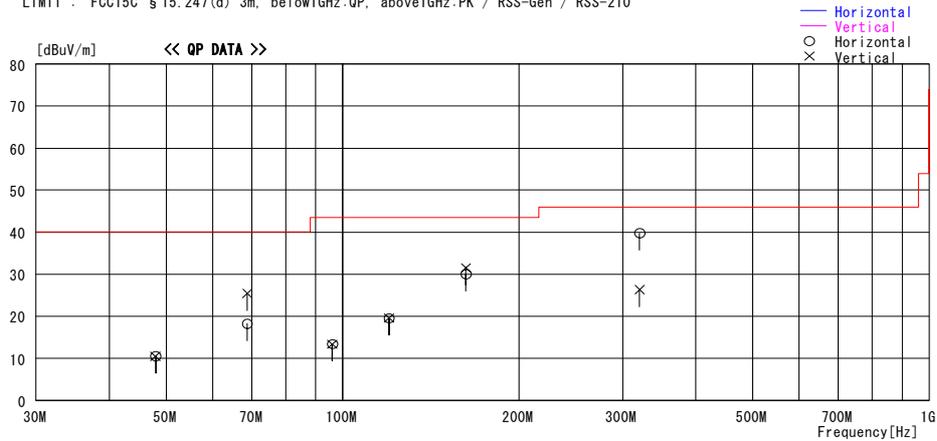
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.3 Semi Anechoic Chamber
Date : 2006/11/07 11:30:20

Applicant : Sony EMCS Corporation Saitama TEC Report No. : 27CE0097-H0
Kind of EUT : Wireless Speaker System Power : AC120V / 60Hz DC5.2V
Model No. : SRS-BTM30 Temp./Humi. : 21deg. C. / 60%
Serial No. : 002 Operator : Yasuyuki Fukui

Mode / Remarks : Tx 2480MHz V:X-axis H:X-axis

LIMIT : FCC15C § 15.247(d) 3m, below1GHz:QP, above1GHz:PK / RSS-Gen / RSS-210



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]						
48.000	24.2	QP	11.2	-24.9	10.5	359	303	Hori.	40.0	29.5
48.000	24.2	QP	11.2	-24.9	10.5	47	100	Vert.	40.0	29.5
68.776	42.6	QP	7.3	-24.5	25.4	2	100	Vert.	40.0	14.6
68.776	35.5	QP	7.3	-24.5	18.3	176	314	Hori.	40.0	21.7
96.000	27.2	QP	10.2	-24.0	13.4	0	100	Vert.	43.5	30.1
96.000	27.2	QP	10.2	-24.0	13.4	359	312	Hori.	43.5	30.1
120.000	29.8	QP	13.5	-23.7	19.6	345	299	Hori.	43.5	23.9
120.000	29.8	QP	13.5	-23.7	19.6	0	100	Vert.	43.5	23.9
162.323	39.0	QP	15.8	-23.3	31.5	40	100	Vert.	43.5	12.0
162.323	37.6	QP	15.8	-23.3	30.1	267	210	Hori.	43.5	13.4
321.113	46.8	QP	15.2	-22.2	39.8	358	100	Hori.	46.0	6.2
321.113	33.3	QP	15.2	-22.2	26.3	116	100	Vert.	46.0	19.7

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)

Radiated Spurious Emission (above 1GHz)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3Semi Anechoic Chamber

Company : Sony EMCS Corporation Saitama TEC REPORT NO : 27CE0097-HO
Equipment : Wireless Speaker System REGULATION : FCC15.247(d)/RSS-210A8.5
Model : SRS-BTM30 TEST DISTANCE : 3/1m
Sample No. : 002 DATE : 11/02/2006
Power : AC 120 V / 60 Hz DC5.2V TEMPERATURE : 22deg.C
Mode : Tx 2402MHz HUMIDITY : 50%
Remarks : Hor X , Ver X-axis ENGINEER : Yasuyuki Fukui

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	47.6	48.0	26.6	33.8	1.9	0.0	42.3	42.7	74.0	31.7	31.3
2	2390.0	41.3	40.7	29.1	32.8	2.2	0.0	39.8	39.2	74.0	34.2	34.8
3	2400.0	56.5	53.4	29.1	32.8	2.2	0.0	55.0	51.9	74.0	19.0	22.1
4	4804.0	40.0	40.0	33.4	31.6	3.5	0.1	45.4	45.4	74.0	28.6	28.6
5	7206.0	41.2	41.4	37.3	32.1	4.3	0.3	51.0	51.2	74.0	23.0	22.8
6	9608.0	40.3	41.2	39.4	33.1	5.0	0.7	52.3	53.2	74.0	21.7	20.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12010.0	39.9	40.0	40.5	33.0	5.8	0.8	44.5	44.6	74.0	29.5	29.4
8	14412.0	43.3	43.1	41.5	32.3	6.3	0.6	49.9	49.7	74.0	24.1	24.3
9	16814.0	40.1	40.1	40.4	32.1	6.8	1.2	46.9	46.9	74.0	27.1	27.1
10	19216.0	41.0	41.0	39.4	31.8	7.3	0.0	46.4	46.4	74.0	27.6	27.6
11	21618.0	40.0	40.0	39.7	32.3	7.7	0.0	45.6	45.6	74.0	28.4	28.4
12	24020.0	41.5	41.5	39.7	31.6	8.1	0.0	48.2	48.2	74.0	25.8	25.8

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	1602.0	42.3	45.6	26.6	33.8	1.9	0.0	37.0	40.3	54.0	17.0	13.7
2	2390.0	30.5	30.5	29.1	32.8	2.2	0.0	29.0	29.0	54.0	25.0	25.0
3	2400.0	36.3	36.2	29.1	32.8	2.2	0.0	34.8	34.7	54.0	19.2	19.3
4	4804.0	29.5	29.4	33.4	31.6	3.5	0.1	34.9	34.8	54.0	19.1	19.2
5	7206.0	30.6	30.6	37.3	32.1	4.3	0.3	40.4	40.4	54.0	13.6	13.6
6	9608.0	30.7	30.7	39.4	33.1	5.0	0.7	42.7	42.7	54.0	11.3	11.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	12010.0	30.8	30.8	40.5	33.0	5.8	0.8	35.4	35.4	54.0	18.6	18.6
8	14412.0	31.9	31.9	41.5	32.3	6.3	0.6	38.5	38.5	54.0	15.5	15.5
9	16814.0	31.7	31.7	40.4	32.1	6.8	1.2	38.5	38.5	54.0	15.5	15.5
10	19216.0	31.7	31.7	39.4	31.8	7.3	0.0	37.1	37.1	54.0	16.9	16.9
11	21618.0	33.0	33.0	39.7	32.3	7.7	0.0	38.6	38.6	54.0	15.4	15.4
12	24020.0	34.2	34.2	39.7	31.6	8.1	0.0	40.9	40.9	54.0	13.1	13.1

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.

Radiated Spurious Emission (above 1GHz)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3Semi Anechoic Chamber

Company : Sony EMCS Corporation Saitama TEC REPORT NO : 27CE0097-HO
Equipment : Wireless Speaker System REGULATION : FCC15.247(d)/RSS-210A8.5
Model : SRS-BTM30 TEST DISTANCE : 3/1m
Sample No. : 002 DATE : 11/02/2006
Power : AC 120 V / 60 Hz DC5.2V TEMPERATURE : 22deg.C
Mode : Tx 2441MHz HUMIDITY : 50%
Remarks : Hor X , Ver X-axis ENGINEER : Yasuyuki Fukui

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR [dBuV]	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1628.0	46.9	52.3	26.8	33.7	1.9	0.0	41.9	47.3	74.0	32.1	26.7
2	4882.0	40.0	40.3	33.6	31.6	3.5	0.0	45.5	45.8	74.0	28.5	28.2
3	7323.0	39.7	39.8	37.4	32.2	4.3	0.4	49.6	49.7	74.0	24.4	24.3
4	9764.0	39.5	39.1	39.6	33.2	5.0	0.7	51.6	51.2	74.0	22.4	22.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12205.0	37.4	40.0	40.6	32.9	5.8	0.8	42.2	44.8	74.0	31.8	29.2
6	14646.0	39.7	40.0	41.0	32.4	6.3	0.6	45.7	46.0	74.0	28.3	28.0
7	17087.0	43.0	42.1	41.3	32.0	6.8	1.1	50.7	49.8	74.0	23.3	24.2
8	19528.0	40.0	40.0	39.6	31.9	7.3	0.0	45.5	45.5	74.0	28.5	28.5
9	21969.0	41.6	41.6	40.1	32.1	7.8	0.0	47.9	47.9	74.0	26.1	26.1
10	24410.0	40.6	40.6	39.8	31.1	8.2	0.0	48.0	48.0	74.0	26.0	26.0

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR [dBuV]	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1628.0	39.7	49.4	26.8	33.7	1.9	0.0	34.7	44.4	54.0	19.3	9.6
2	4882.0	30.1	30.1	33.6	31.6	3.5	0.0	35.6	35.6	54.0	18.4	18.4
3	7323.0	30.5	30.5	37.4	32.2	4.3	0.4	40.4	40.4	54.0	13.6	13.6
4	9764.0	30.2	30.2	39.6	33.2	5.0	0.7	42.3	42.3	54.0	11.7	11.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12205.0	31.7	31.7	40.6	32.9	5.8	0.8	36.5	36.5	54.0	17.5	17.5
6	14646.0	31.5	31.5	41.0	32.4	6.3	0.6	37.5	37.5	54.0	16.5	16.5
7	17087.0	32.6	32.7	41.3	32.0	6.8	1.1	40.3	40.4	54.0	13.7	13.6
8	19528.0	31.5	31.5	39.6	31.9	7.3	0.0	37.0	37.0	54.0	17.0	17.0
9	21969.0	34.1	34.1	40.1	32.1	7.8	0.0	40.4	40.4	54.0	13.6	13.6
10	24410.0	34.2	34.2	39.8	31.1	8.2	0.0	41.6	41.6	54.0	12.4	12.4

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 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.

Radiated Spurious Emission (above 1GHz)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3Semi Anechoic Chamber

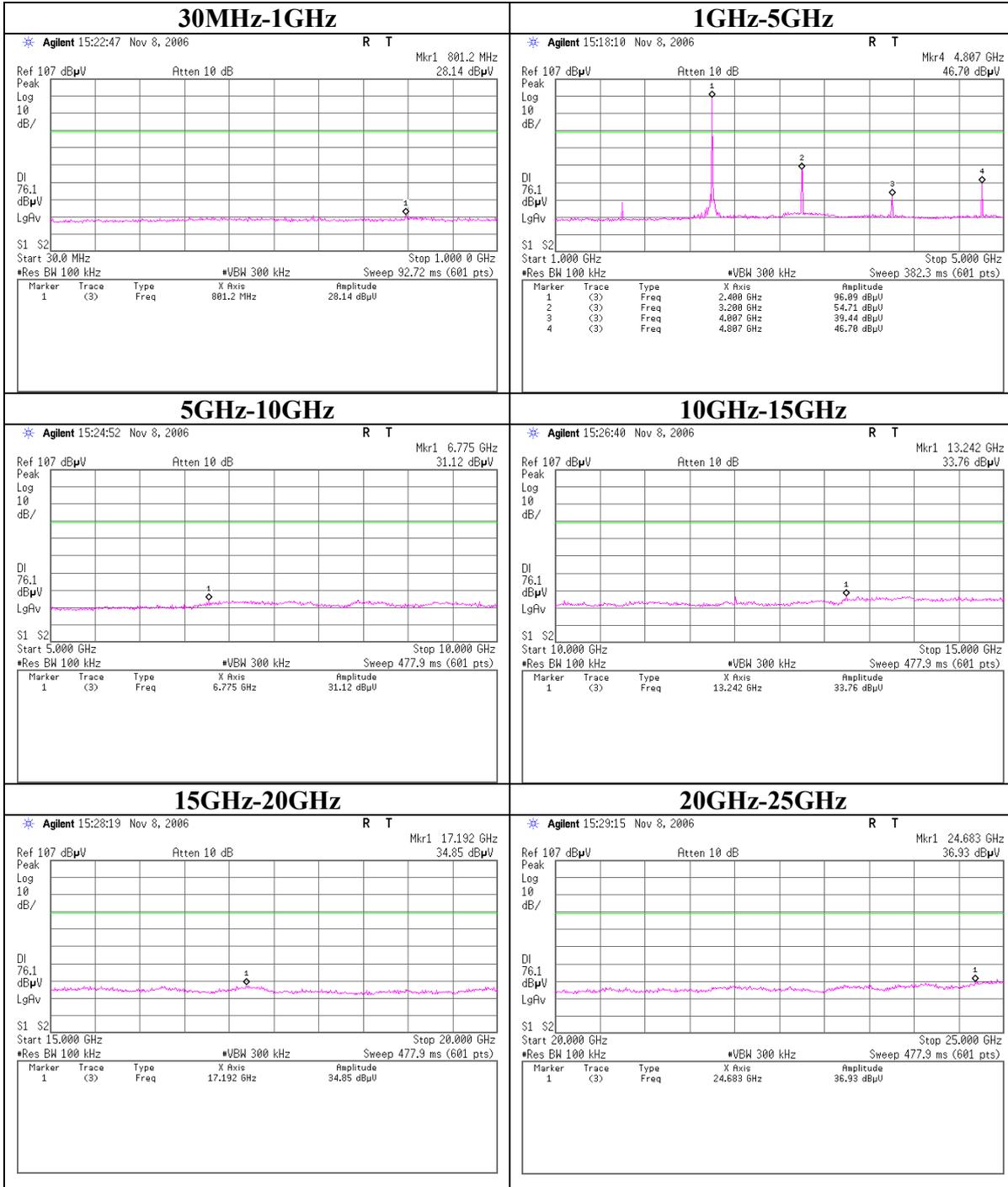
Company : Sony EMCS Corporation Saitama TEC	REPORT NO : 27CE0097-HO
Equipment : Wireless Speaker System	REGULATION : FCC15.247(d)/RSS-210A8.5
Model : SRS-BTM30	TEST DISTANCE : 3/1m
Sample No. : 002	DATE : 11/02/2006
Power : AC 120 V / 60 Hz DC5.2V	TEMPERATURE : 22deg.C
Mode : Tx 2480MHz	HUMIDITY : 50%
Remarks : Hor X , Ver X-axis	ENGINEER : Yasuyuki Fukui

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	45.1	55.4	26.9	33.7	1.9	0.0	40.2	50.5	74.0	33.8	23.5
2	2483.5	45.2	43.6	29.2	32.7	2.3	0.0	44.0	42.4	74.0	30.0	31.6
3	4960.0	42.1	42.0	33.7	31.6	3.5	0.0	47.7	47.6	74.0	26.3	26.4
4	7440.0	40.3	41.0	37.6	32.3	4.3	0.5	50.4	51.1	74.0	23.6	22.9
5	9920.0	40.1	40.3	39.8	33.2	5.1	0.7	52.5	52.7	74.0	21.5	21.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12400.0	40.0	40.0	40.6	32.8	5.9	0.8	45.0	45.0	74.0	29.0	29.0
7	14880.0	40.5	41.0	40.4	32.4	6.3	0.6	45.9	46.4	74.0	28.1	27.6
8	17360.0	41.9	42.0	42.7	31.9	6.9	1.0	51.1	51.2	74.0	22.9	22.8
9	19840.0	42.0	42.0	39.4	32.0	7.4	0.0	47.3	47.3	74.0	26.7	26.7
10	22320.0	42.4	42.4	40.1	32.0	7.9	0.0	48.9	48.9	74.0	25.1	25.1
11	24800.0	43.2	43.2	40.0	30.6	8.3	0.0	51.4	51.4	74.0	22.6	22.6

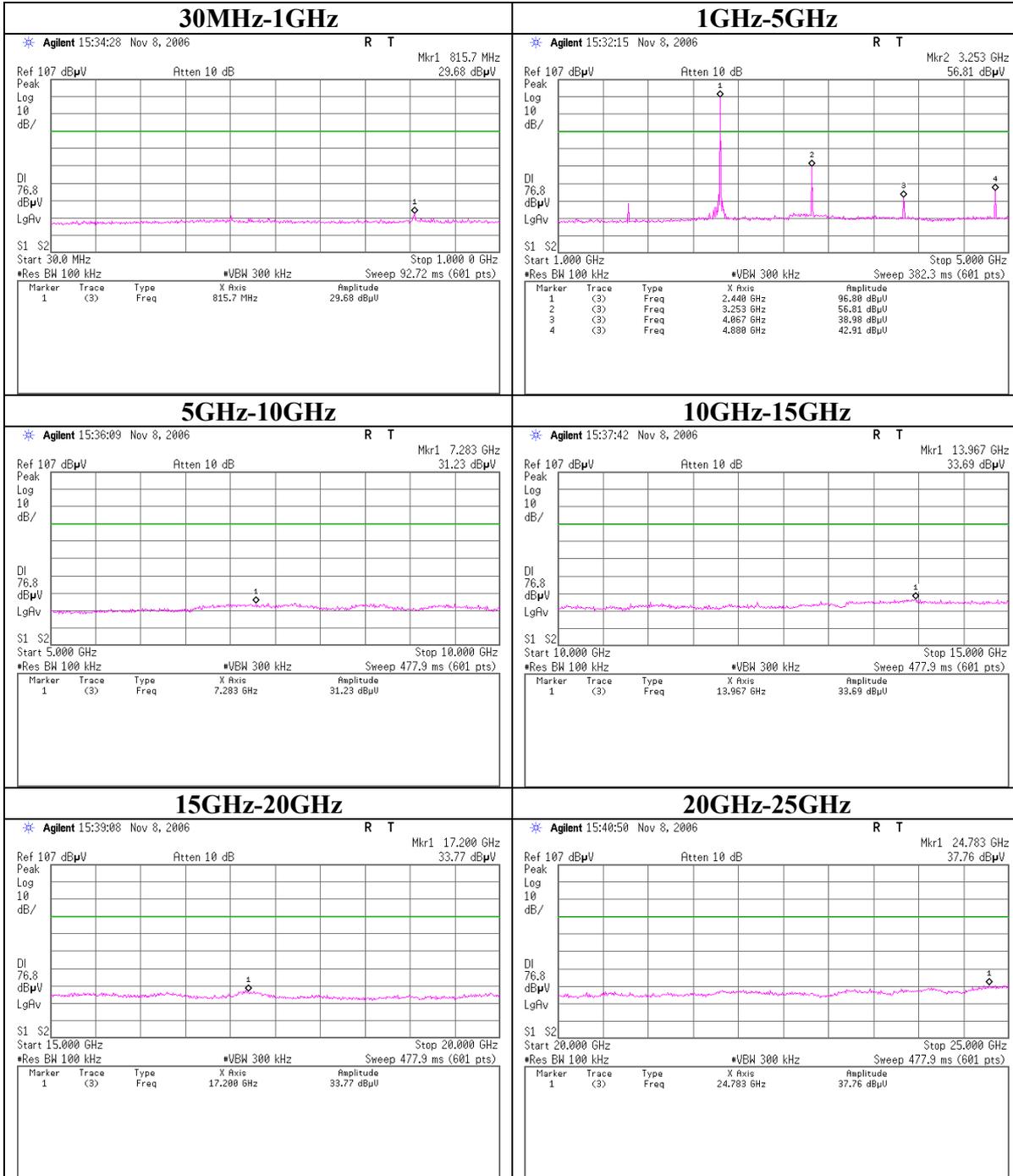
AV DETECT (RBW: 1MHz, VBW: 10Hz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1654.0	40.1	52.7	26.9	33.7	1.9	0.0	35.2	47.8	54.0	18.8	6.2
2	2483.5	31.0	30.0	29.2	32.7	2.3	0.0	29.8	28.8	54.0	24.2	25.2
3	4960.0	32.1	32.5	33.7	31.6	3.5	0.0	37.7	38.1	54.0	16.3	15.9
4	7440.0	30.5	30.7	37.6	32.3	4.3	0.5	40.6	40.8	54.0	13.4	13.2
5	9920.0	30.2	30.3	39.8	33.2	5.1	0.7	42.6	42.7	54.0	11.4	11.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12400.0	30.7	30.7	40.6	32.8	5.9	0.8	35.7	35.7	54.0	18.3	18.3
7	14880.0	31.8	31.8	40.4	32.4	6.3	0.6	37.2	37.2	54.0	16.8	16.8
8	17360.0	32.1	32.1	42.7	31.9	6.9	1.0	41.3	41.3	54.0	12.7	12.7
9	19840.0	32.6	32.6	39.4	32.0	7.4	0.0	37.9	37.9	54.0	16.1	16.1
10	22320.0	33.3	33.3	40.1	32.0	7.9	0.0	39.8	39.8	54.0	14.2	14.2
11	24800.0	35.4	35.4	40.0	30.6	8.3	0.0	43.6	43.6	54.0	10.4	10.4

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 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.

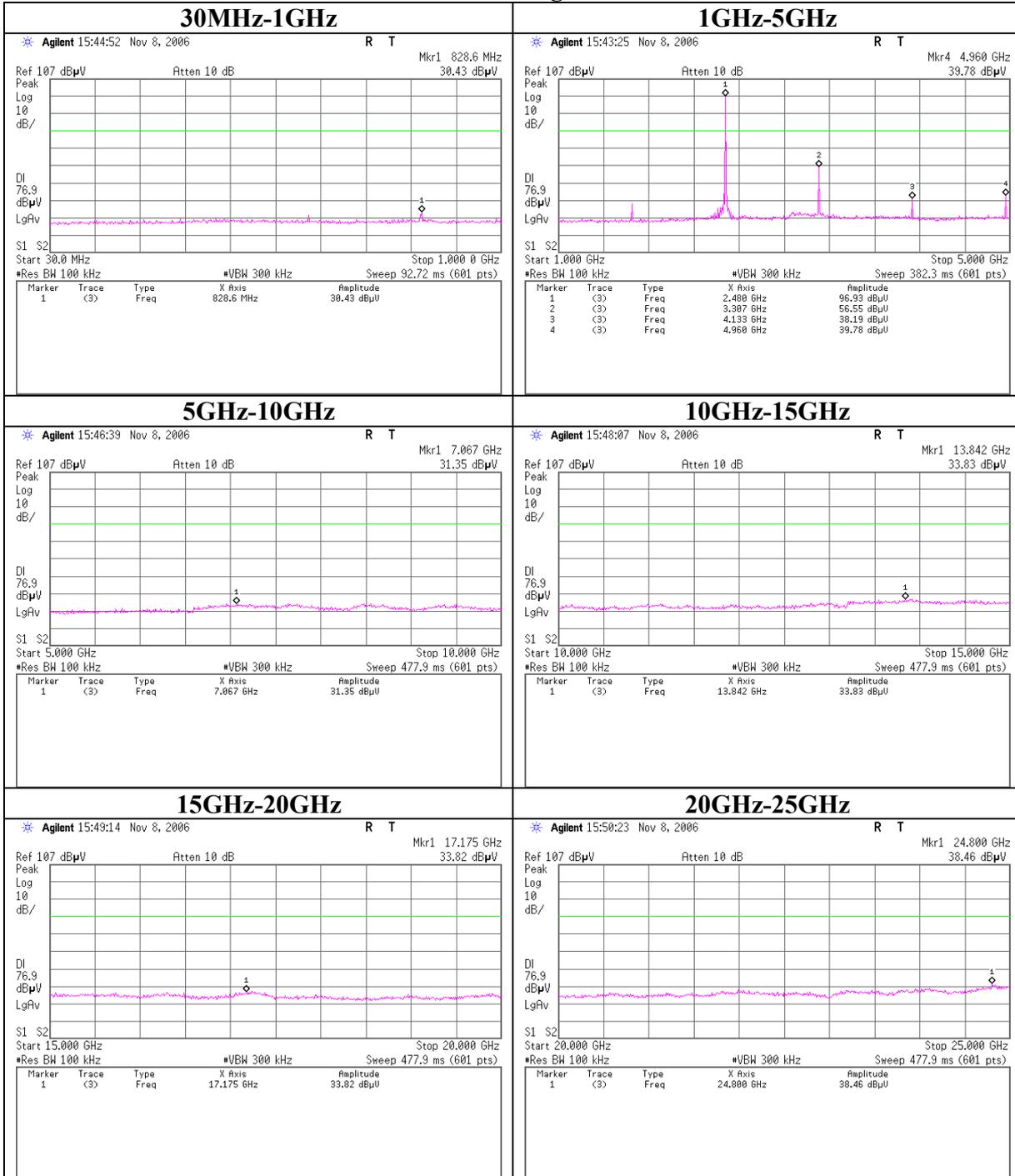
Conducted Spurious Emission
Ch:Low



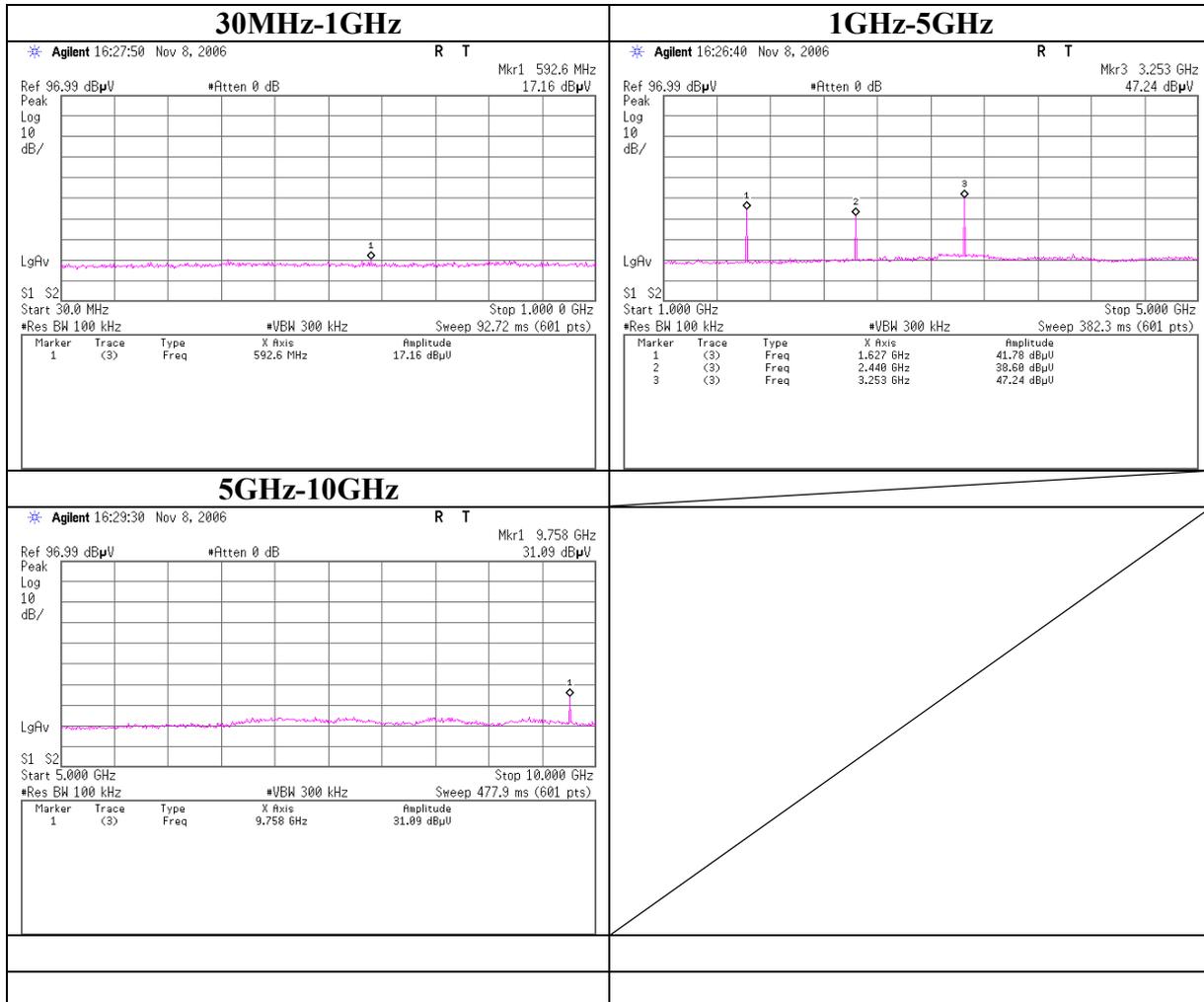
Conducted Spurious Emission
Ch:Mid



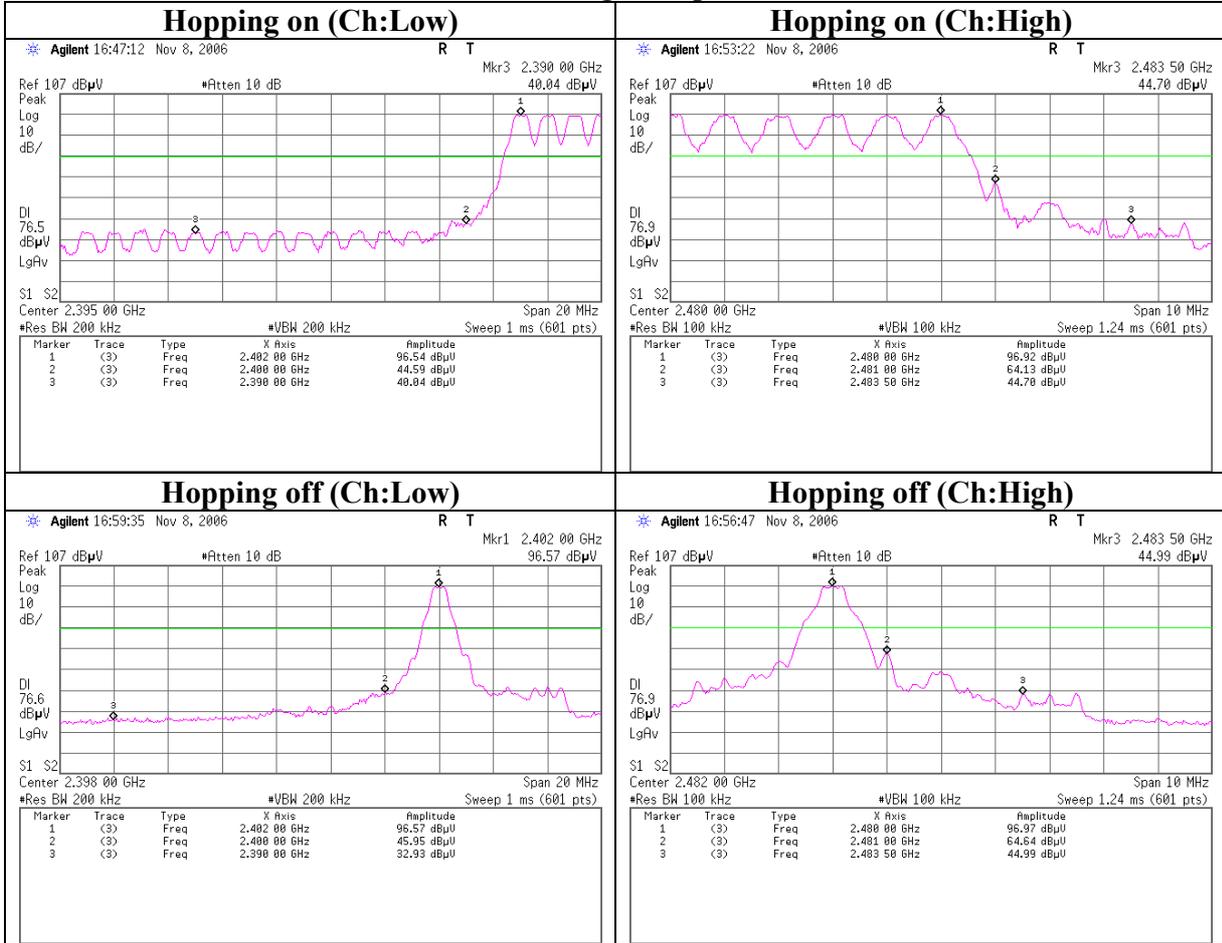
Conducted Spurious Emission
Ch:High



Conducted Spurious Emission
Ch:Mid Rx



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-03	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE / CE	2006/03/03 * 12
MOS-13	Thermo-Hygrometer	Custom	CTH-180	RE / CE	2006/01/19 * 24
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE / CE	-
MHA-20	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2006/04/06 * 12
MCC-56	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	RE	2006/04/15 * 12
MPA-11	MicroWave System Amplifier	Agilent	83017A	RE	2006/03/27 * 12
MHA-01	Horn Antenna 18-26.5G	EMCO	3160-09	RE	2006/01/09 * 12
MSA-03	Spectrum Analyzer	Agilent	E4448A	RE / AT	2006/09/13 * 12
MBA-03	Biconical Antenna	Schwarzbeck	BBA9106	RE	2006/01/29 * 12
MLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2006/01/29 * 12
MSA-07	Spectrum Analyzer	Advantest	R3272	RE	2005/11/22 * 12
TR-07	Test Receiver	Rohde & Schwarz	ESCS30	RE / CE	2006/09/12 * 12
MCC-51	Coaxial cable	UL Apex	-	RE	2006/03/11 * 12
MAT-30	Attenuator(6dB)	TME	UFA-01	RE	2006/03/11 * 12
MPA-13	Pre Amplifier	SONOA INSTRUMENT	310	RE	2006/03/25 * 12
MJM-01	Measure	KDS	ES19-55	RE / CE	-
MOS-04	Digital Humidity Indicator	N.T	NT-1800	AT	2004/11/25 * 24
MCC-16	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX 104	AT	2006/02/02 * 12
MAT-23	Attenuator(10dB) DC-18GHz	Orient Microwave	BX10-0476-00	AT	2006/03/18 * 12
MAT-25	Attenuator(10dB) (above1GHz)	Agilent	8493C	AT	2006/06/02 * 12
MSA-04	Spectrum Analyzer	Agilent	E4448A	CE	2006/06/02 * 12
MCC-59	Coaxial cable	UL Apex	-	CE	2006/04/13 * 12
MLS-03	LISN(AMN)	Schwarzbeck	NSLK8127	CE(EUT)	2006/06/01 * 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: AC Main Conducted Emission

AT: Antenna Terminal Conducted Spurious Emission

RE: Radiated Spurious Emission, Maximum Peak Output Power, 20dB Bandwidth,

Number of Hopping Frequency, Dwell time

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