

FCC TEST REPORT

REPORT NO.: RF941202L09

MODEL NO.: R1000

RECEIVED: Dec. 08, 2005

TESTED: Dec. 08 ~ Dec. 15, 2005

ISSUED: Dec. 19, 2005

APPLICANT: ROKU LLC

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ISSUED BY: Advance Data Technology Corporation

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1. CERTIFICATION

PRODUCT: SoundBridge Radio Wi-Fi Music System

MODEL: R1000 BRAND: Roku

APPLICANT: ROKU LLC

TESTED: Dec. 08 ~ Dec. 15, 2005

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 15, Subpart C (Section 15.247),

ANSI C63.4-2003

The above equipment have been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY: Rebecca Wang, DATE: Dec. 19, 2005

Rebecca Huang

TECHNICAL

ACCEPTANCE: Jan Chard , DATE: Dec. 19, 2005

Responsible for RF Gary Chang

APPROVED BY: , DATE: Dec. 19, 2005

Cody Chang / Deputy Manager

FCC ID: TC2R1000



2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C							
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK				
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is –3.07dB at 0.552MHz				
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz	PASS	Meet the requirement of limit.				
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit.				
15.247(d)	Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is –2.13dB at 4874.00MHz				
15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit.				
15.247(d)	Band Edge Measurement Limit: 20dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit.				



2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz ~ 30MHz	2.44 dB
	30MHz ~ 200MHz	3.73 dB
Dadiated emissions	200MHz ~1000MHz	3.74 dB
Radiated emissions	1GHz ~ 18GHz	2.20 dB
	18GHz ~ 40GHz	1.88 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	SoundBridge Radio Wi-Fi Music System		
MODEL NO.	R1000		
POWER SUPPLY	Internal Power Supply I/O: 100-240Vac, 50-60Hz O/P: 19Vdc, 2.3A 9.5Vdc, 0.37A		
MODULATION TYPE	CCK, QPSK, BPSK for DSSS		
RADIO TECHNOLOGY	DSSS		
TRANSFER RATE	11/5.5/2/1Mbps		
FREQUENCY RANGE	2412MHz ~ 2462MHz		
NUMBER OF CHANNEL	11		
OUTPUT POWER	22.751mW		
ANTENNA TYPE	PCB antenna with 5dBi gain		
DATA CABLE	NA		
I/O PORTS	Refer to user's manual		
ASSOCIATED DEVICES	NA		

- 1.The EUT, operates in the 2.4GHz frequency range, lets you connect IEEE 802.11b devices to the network. With its high-speed data transmissions of up to 11Mbps.
- 2. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

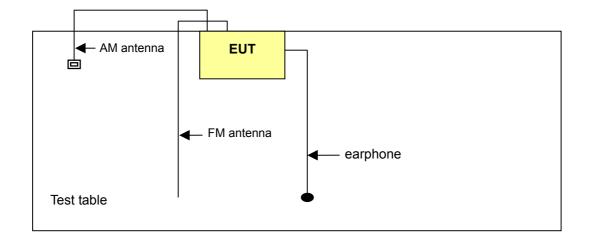


3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided to this EUT.

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST





3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE		APPLIC	ABLE TO		DESCRIPTION	
MODE	PLC	RE<1G	RE≥1G	APCM	DESCRIPTION	
-	V	√	√	√	NA	

Where PLC: Power Line Conducted Emission

RE<1G RE: Radiated Emission below 1GHz

RE≥1G: Radiated Emission above 1GHz

APCM: Antenna Port Conducted Measurement

POWER LINE CONDUCTED EMISSION TEST:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE	TESTED	MODULATION	MODULATION	DATA RATE
	CHANNEL	CHANNEL	TECHNOLOGY	TYPE	(Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	BPSK	1

RADIATED EMISSION TEST (BELOW 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE	TESTED	MODULATION	MODULATION	DATA RATE
	CHANNEL	CHANNEL	TECHNOLOGY	TYPE	(Mbps)
802.11b	1 to 11	11	DSSS	BPSK	1

RADIATED EMISSION TEST (ABOVE 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE	TESTED	MODULATION	MODULATION	DATA RATE
	CHANNEL	CHANNEL	TECHNOLOGY	TYPE	(Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	BPSK	1



BANDEDGE MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE	TESTED	MODULATION	MODULATION	DATA RATE
	CHANNEL	CHANNEL	TECHNOLOGY	TYPE	(Mbps)
802.11b	1 to 11	1, 11	DSSS	BPSK	1

ANTENNA PORT CONDUCTED MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE	TESTED	MODULATION	MODULATION	DATA RATE
	CHANNEL	CHANNEL	TECHNOLOGY	TYPE	(Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	BPSK	1



3.2.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C. (15.247)

ANSI C63.4-2003

All test items have been performed and recorded as per the above standards.

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

3.2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	EARPHONE	PHILIPS	SBC HL125	H2-010075	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	1.2m shielded cable without core.

NOTE: All power cords of the above support units are non shielded (1.8m).



4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED	LIMIT (dBµV)
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

NOTE: 1. The lower limit shall apply at the transition frequencies.

- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100291	Nov. 11, 2006
RF signal cable Woken	5D-FB	Cable-HYC01-01	Jan. 09, 2006
LISN SCHWARZBECK	NNBL 8226-2	8226-142	May 02, 2006
LISN ROHDE & SCHWARZ	ESH2-Z5	100104	Feb. 15, 2006
Software ADT	ADT_Cond_V3	NA	NA

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HwaYa Shielded Room 1.
- 3. The VCCI Site Registration No. is C-2040.



4.1.3 TEST PROCEDURES

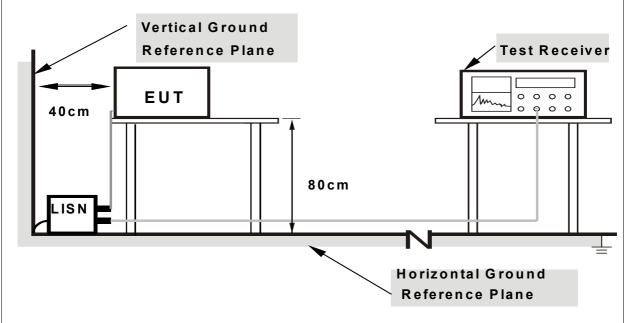
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit 20dB) was not recorded.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation



4.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.1.6 EUT OPERATING CONDITIONS

- a. Placed the EUT on a testing table.
- The EUT ran a test program (provided by manufacturer) to enable all functions under transmission/receiving condition continuously at specific channel frequency.



Report Format Version 2.0.4

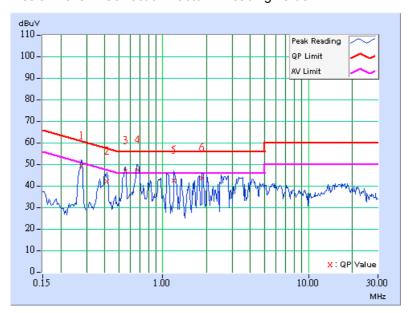
4.1.7 TEST RESULTS

CONDUCTED WORST-CASE DATA

EUT	SoundBridge Radio Wi- Fi Music System	MEASUREMENT DETAIL		
MODEL	R1000	PHASE	Line 1	
CHANNEL	Channel 1	6dB BANDWIDTH	9 kHz	
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
TESTED BY	Jay Chen			

	Freq.	Corr.	Reading Value			Emission Level Limit		Mar	gin	
No		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	3)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.275	0.11	49.02	-	49.13	-	60.97	50.97	-11.84	-
2	0.416	0.11	42.13	-	42.24	-	57.54	47.54	-15.29	-
3	0.552	0.14	46.65	41.96	46.79	42.10	56.00	46.00	-9.21	-3.90
4	0.673	0.17	47.22	39.30	47.39	39.47	56.00	46.00	-8.61	-6.53
5	1.195	0.24	42.36	-	42.60	-	56.00	46.00	-13.40	-
6	1.867	0.26	43.36	-	43.62	-	56.00	46.00	-12.38	_

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.

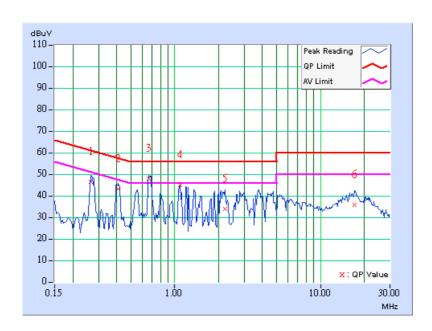




EUT	SoundBridge Radio Wi- Fi Music System			
MODEL	R1000	PHASE	Line 2	
CHANNEL	Channel 1	6dB BANDWIDTH	9 kHz	
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
TESTED BY	Jay Chen			

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.267	0.11	46.08	-	46.19	-	61.20	51.20	-15.01	-
2	0.412	0.11	42.81	-	42.92	-	57.61	47.61	-14.69	-
3	0.667	0.17	47.40	38.26	47.57	38.43	56.00	46.00	-8.43	-7.57
4	1.082	0.24	44.58	-	44.82	-	56.00	46.00	-11.18	-
5	2.219	0.27	33.53	-	33.80	-	56.00	46.00	-22.20	-
6	17.246	0.58	35.25	-	35.83	-	60.00	50.00	-24.17	-

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.

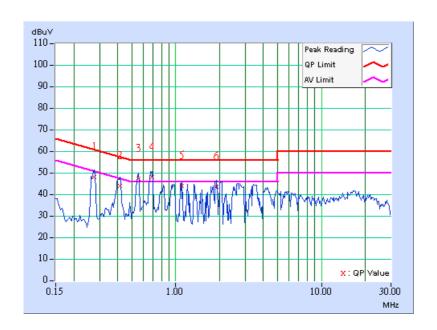




EUT	SoundBridge Radio Wi- Fi Music System			
MODEL	R1000	PHASE	Line 1	
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz	
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
TESTED BY	Jay Chen			

	Freq.	Corr.	Readin	Reading Value E		Emission Level		Limit		Margin	
No		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	3)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.275	0.11	47.89	-	48.00	-	60.97	50.97	-12.97	-	
2	0.416	0.11	43.72	-	43.83	-	57.54	47.54	-13.70	-	
3	0.552	0.14	47.23	42.79	47.37	42.93	56.00	46.00	-8.63	-3.07	
4	0.685	0.17	47.75	39.91	47.92	40.08	56.00	46.00	-8.08	-5.92	
5	1.107	0.24	43.95	-	44.19	-	56.00	46.00	-11.81	-	
6	1.906	0.26	43.31	-	43.57	-	56.00	46.00	-12.43	-	

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.

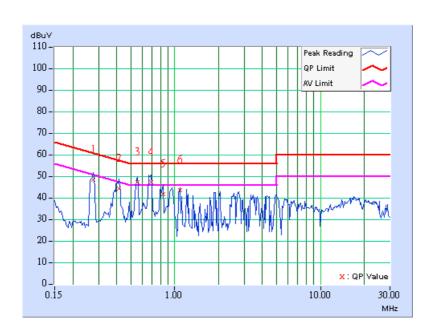




EUT	SoundBridge Radio Wi- Fi Music System	MEASUREMENT DE	TAIL	
MODEL	R1000	PHASE	Line 2	
CHANNEL	Channel 6	6dB BANDWIDTH	9 kHz	
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
TESTED BY	Jay Chen			

	Freq.	Corr.	Readin	Reading Value Emission Level			Lir	nit	Margin	
No		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.275	0.11	48.31	ı	48.42	ı	60.97	50.97	-12.55	-
2	0.416	0.11	44.24	-	44.35	1	57.54	47.54	-13.18	-
3	0.552	0.14	47.09	42.79	47.23	42.93	56.00	46.00	-8.77	-3.07
4	0.689	0.17	47.32	39.40	47.49	39.57	56.00	46.00	-8.51	-6.43
5	0.830	0.20	41.62	-	41.82	-	56.00	46.00	-14.18	-
6	1.094	0.24	43.47	-	43.71	-	56.00	46.00	-12.29	-

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.

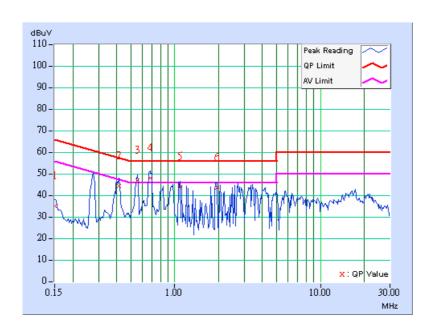




EUT	SoundBridge Radio Wi- Fi Music System	MEASUREMENT DETAIL		
MODEL	R1000	PHASE	Line 1	
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz	
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
TESTED BY	Jay Chen			

	Freq.	Corr.	Readin	g Value		Emission Limit Margi		Limit		gin
No		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.11	34.80	-	34.91	-	66.00	56.00	-31.09	-
2	0.416	0.11	44.04	-	44.15	-	57.54	47.54	-13.38	-
3	0.556	0.14	46.85	41.66	46.99	41.80	56.00	46.00	-9.01	-4.20
4	0.677	0.17	48.03	39.96	48.20	40.13	56.00	46.00	-7.80	-5.87
5	1.090	0.24	43.75	-	43.99	-	56.00	46.00	-12.01	-
6	1.945	0.26	43.37	-	43.63	-	56.00	46.00	-12.37	-

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.

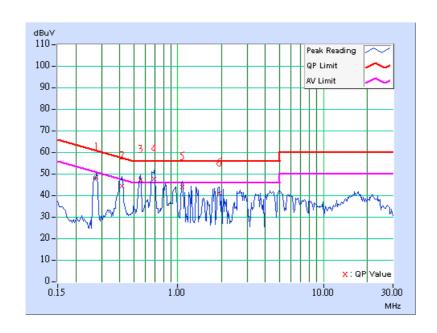




EUT	SoundBridge Radio Wi- Fi Music System	MEASUREMENT DETAIL		
MODEL	R1000	PHASE	Line 2	
CHANNEL	Channel 11	6dB BANDWIDTH	9 kHz	
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
TESTED BY	Jay Chen			

	Freq.	Corr.	Readin	g Value		Emission Limit Margin		Limit		gin
No		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.275	0.11	48.23	-	48.34	-	60.97	50.97	-12.63	-
2	0.416	0.11	44.10	-	44.21	-	57.54	47.54	-13.32	-
3	0.552	0.14	47.01	42.58	47.15	42.72	56.00	46.00	-8.85	-3.28
4	0.689	0.17	47.62	39.59	47.79	39.76	56.00	46.00	-8.21	-6.24
5	1.074	0.24	43.83	-	44.07	-	56.00	46.00	-11.93	-
6	1.930	0.26	40.91	-	41.17	-	56.00	46.00	-14.83	-

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.





4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	216 ~ 960 200 3	
Above 960	500	3

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL	
Test Receiver	ESI7	838496/016	Jan. 07, 2006	
ROHDE & SCHWARZ	LOIT	030490/010	Jan. 07, 2000	
Spectrum Analyzer	FSP40	100041	Dec. 04, 2006	
ROHDE & SCHWARZ	1 01 40	100041	DCC. 04, 2000	
BILOG Antenna	VULB9168	9168-155	Jan. 22, 2006	
SCHWARZBECK	V OLDO 100	3100-100	Jan. 22, 2000	
HORN Antenna	BBHA 9120D	9120D-404	Jan. 05, 2006	
SCHWARZBECK	DDI IA 3 120D	91200-404	Jan. 05, 2000	
HORN Antenna	BBHA 9170	BBHA 9170242	Jan. 23, 2006	
SCHWARZBECK	DDIIASTIO	DDI 1/1 0 1 1 02 42	0dii. 20, 2000	
Preamplifier	8449B	3008A01960	Nov. 09, 2006	
Agilent	04400	3000/A01300		
RF signal cable	SUCOFLEX 104	219272/4	Jan. 26, 2006	
HUBER+SUHNNER	00001 EEX 104	21321214		
RF signal cable	SUCOFLEX 104	219275/4	Jan. 26, 2006	
HUBER+SUHNNER	30001 LEX 104	219213/4		
Software	ADT_Radiated_V5.14	NA	NA	
ADT.	ADT_Radiated_vo.14	14/4	IVA	
Antenna Tower	MA 4000	010303	NA	
inn-co GmbH	W/A 4000	010303	INA	
Antenna Tower Controller	CO2000	019303	NA	
inn-co GmbH	CO2000	019303	INA	
Turn Table	TT100.	TT93021704	NA	
ADT.	11100.	1193021704	INA	
Turn Table Controller	SC100.	SC93021704	NA	
ADT.	50100.	003021704	INA	

- 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
- 2. The test was performed in HwaYa Chamber 3.
- 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 4. The IC Site Registration No. is IC4924-4.



4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak method or average method as specified and then reported in data sheet.

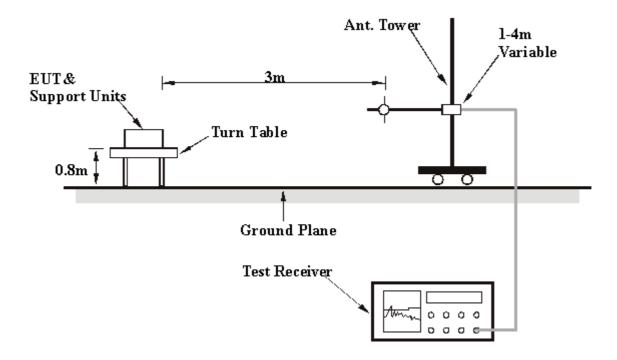
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection (PK) at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.



4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6



4.2.7 TEST RESULTS

RADIATED WORST-CASE DATA

EUT	SoundBridge Radio Wi- Fi Music System	MEASUREMENT DETAIL		
MODEL	R1000	FREQUENCY RANGE	Below 1000MHz	
CHANNEL	Channel 11	DETECTOR FUNCTION	Quasi-Peak	
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	21deg. C, 65%RH, 991hPa	
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
TESTED BY	Brad Wu			

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
	Freg.	Emission	Limit	Margin	Antenna	Table	Raw	Correction		
No.		Level	_	•	Height	Angle	Value	Factor		
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(m)	(Degree)	(dBuV)	(dB/m)		
1	43.61	35.23 QP	40.00	-4.77	4.00 H	208	19.85	15.39		
2	294.37	34.64 QP	46.00	-11.36	1.00 H	226	20.32	14.32		
3	533.47	31.87 QP	46.00	-14.13	1.50 H	232	12.70	19.17		
4	667.60	31.69 QP	46.00	-14.31	1.00 H	172	10.03	21.66		
5	733.69	32.10 QP	46.00	-13.90	1.00 H	244	9.26	22.84		
6	933.91	38.90 QP	46.00	-7.10	1.50 H	241	13.74	25.16		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Correction		
No.		Level	-	_	Height	Angle	Value	Factor		
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(m)	(Degree)	(dBuV)	(dB/m)		
1	49.44	36.82 QP	40.00	-3.18	1.00 V	91	22.13	14.69		
2	467.37	33.58 QP	46.00	-12.42	1.00 V	190	15.39	18.20		
3	533.47	36.16 QP	46.00	-9.84	2.00 V	40	16.99	19.17		
4	733.69	31.20 QP	46.00	-14.80	1.50 V	166	8.36	22.84		
5	799.78	33.19 QP	46.00	-12.81	2.00 V	208	9.73	23.46		
6	933.91	41.74 QP	46.00	-4.26	1.00 V	25	16.58	25.16		

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.



EUT	SoundBridge Radio Wi- Fi Music System	MEASUREMENT DETAIL		
MODEL	R1000	FREQUENCY RANGE	1 ~ 25GHz	
CHANNEL	Channel 1	DETECTOR FUNCTION	Peak (PK) Average (AV)	
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	21deg. C, 65%RH, 991hPa	
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
TESTED BY	Brad Wu			

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	1600.00	53.30 PK	74.00	-20.70	1.07 H	66	22.99	30.31		
1	1600.00	44.79 AV	54.00	-9.21	1.07 H	66	14.48	30.31		
2	2387.00	50.10 PK	74.00	-23.90	1.05 H	12	17.55	32.55		
2	2387.00	45.94 AV	54.00	-8.06	1.05 H	12	13.39	32.55		
*3	2412.00	98.51 PK			1.05 H	12	65.90	32.61		
*3	2412.00	94.35 AV			1.05 H	12	61.74	32.61		
4	4824.00	56.30 PK	74.00	-17.70	1.00 H	248	16.46	39.84		
4	4824.00	50.18 AV	54.00	-3.82	1.00 H	248	10.34	39.84		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height	Table Angle	Raw Value (dBuV)	Correction Factor (dB/m)		
1	1600.00	52.57 PK	74.00	-21.43	(m) 1.09 V	(Degree) 173	22.26	30.31		
1	1600.00	44.76 AV	54.00	-9.24	1.09 V	173	14.45	30.31		
2	2387.00	51.42 PK	74.00	-22.58	1.47 V	239	18.87	32.55		
2	2387.00	47.46 AV	54.00	-6.54	1.47 V	239	14.91	32.55		
*3	2412.00	99.83 PK			1.47 V	239	67.22	32.61		
*3	2412.00	95.87 AV			1.47 V	239	63.26	32.61		
4	4824.00	56.85 PK	74.00	-17.15	1.08 V	191	17.01	39.84		
4	4824.00	51.23 AV	54.00	-2.77	1.08 V	191	11.39	39.84		

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



EUT	SoundBridge Radio Wi- Fi Music System	MEASUREMENT DETAIL		
MODEL	R1000	FREQUENCY RANGE	1 ~ 25GHz	
CHANNEL	Channel 6	DETECTOR FUNCTION	Peak (PK) Average (AV)	
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	21deg. C, 65%RH, 991hPa	
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
TESTED BY	Brad Wu			

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
No.	Freq.	Emission Level	Limit	Margin	Antenna Height	Table Angle	Raw Value	Correction Factor		
	(MHz)	(dBuV/m)	(dBuV/m) (dB)	(m)	(Degree)	(dBuV)	(dB/m)			
1	1600.00	53.64 PK	74.00	-20.36	1.09 H	74	23.33	30.31		
1	1600.00	45.13 AV	54.00	-8.87	1.09 H	74	14.82	30.31		
*2	2437.00	99.07 PK			1.07 H	26	66.40	32.67		
*2	2437.00	94.88 AV			1.07 H	26	62.21	32.67		
3	4874.00	56.73 PK	74.00	-17.27	1.02 H	251	16.68	40.05		
3	4874.00	50.68 AV	54.00	-3.32	1.02 H	251	10.63	40.05		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
No.	Freq.	Emission Level	Limit	Margin	Antenna Height	Table Angle	Raw Value	Correction Factor		
140.	(MHz)	(dBuV/m)	(dBuV/m) (dB)	(m)	(Degree)	(dBuV)	(dB/m)			
1	1600.00	53.61 PK	74.00	-20.39	1.12 V	195	23.30	30.31		
1	1600.00	45.82 AV	54.00	-8.18	1.12 V	195	15.51	30.31		
*2	2437.00	100.57 PK			1.40 V	233	67.90	32.67		
*2	2437.00	96.41 AV			1.40 V	233	63.74	32.67		
3	4874.00	57.51 PK	74.00	-16.49	1.07 V	191	17.46	40.05		
3	4874.00	51.87 AV	54.00	-2.13	1.07 V	191	11.82	40.05		

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



EUT	SoundBridge Radio Wi- Fi Music System	MEASUREMENT DETAIL		
MODEL	R1000	FREQUENCY RANGE	1 ~ 25GHz	
CHANNEL	Channel 11	DETECTOR FUNCTION	Peak (PK) Average (AV)	
MODULATION TYPE	BPSK	ENVIRONMENTAL CONDITIONS	21deg. C, 65%RH, 991hPa	
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
TESTED BY	Brad Wu			

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)		
1	1600.00	53.06 PK	74.00	-20.94	1.12 H	74	22.75	30.31		
1	1600.00	44.58 AV	54.00	-9.42	1.12 H	74	14.27	30.31		
*2	2462.00	98.62 PK			1.07 H	24	65.89	32.73		
*2	2462.00	94.57 AV			1.07 H	24	61.83	32.73		
3	2487.00	51.23 PK	74.00	-22.77	1.07 H	24	18.43	32.80		
3	2487.00	47.18 AV	54.00	-6.82	1.07 H	24	14.38	32.80		
4	4924.00	56.17 PK	74.00	-17.83	1.10 H	296	15.90	40.27		
4	4924.00	50.08 AV	54.00	-3.92	1.10 H	296	9.81	40.27		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Correction		
No.	(MHz)	Level	-	_	Height	Angle	Value	Factor		
	(IVIITZ)	(dBuV/m)	(ubuv/iii)	(dBuV/m) (dB)	(m)	(Degree)	(dBuV)	(dB/m)		
1	1600.00	52.48 PK	74.00	-21.52	1.14 V	189	22.17	30.31		
1	1600.00	44.69 AV	54.00	-9.31	1.14 V	189	14.38	30.31		
*2	2462.00	99.70 PK			1.16 V	250	66.97	32.73		
*2	2462.00	95.66 AV			1.16 V	250	62.92	32.73		
3	2487.00	52.18 PK	74.00	-21.82	1.16 V	250	19.38	32.80		
3	2487.00	48.27 AV	54.00	-5.73	1.16 V	250	15.47	32.80		
4	4924.00	57.78 PK	74.00	-16.22	1.09 V	246	17.51	40.27		
4	4924.00	51.69 AV	54.00	-2.31	1.09 V	246	11.42	40.27		

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.

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FCC ID: TC2R1000



4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
SPECTRUM ANALYZER	FSEK 30	100049	Aug. 14, 2006

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



4.3.7 TEST RESULTS

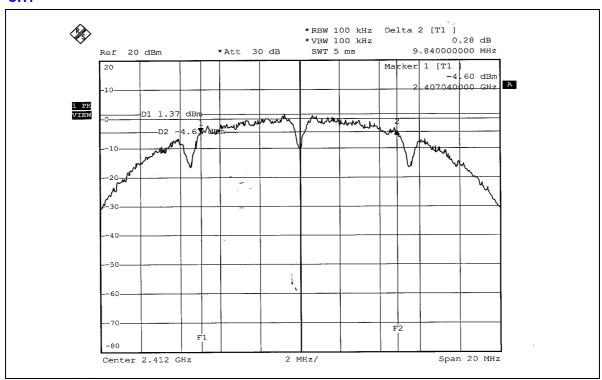
EUT	SoundBridge Radio Wi- Fi Music System	MODEL	R1000
MODULATION TYPE	BPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH, 991hPa
TESTED BY	Long Chen		,

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	9.84	0.5	PASS
6	2437	10.12	0.5	PASS
11	2462	9.96	0.5	PASS

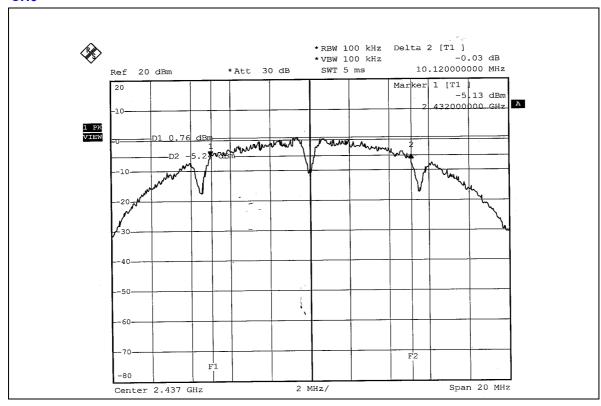
FCC ID: TC2R1000



CH1



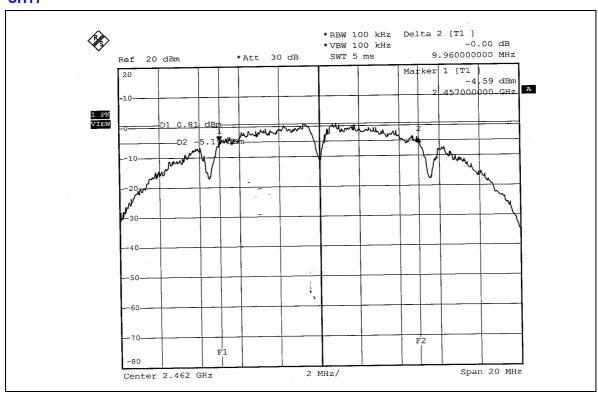
CH6



FCC ID: TC2R1000



CH11





4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006
AGILENT SIGNAL GENERATOR	E8257C	MY43320668	Dec. 07, 2006
DIGITAL RT OSCILLOSCOPE	TDS1012	C037299	Nov. 28, 2006
NARDA DETECTOR	4503A	FSCM99899	NA

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



4.4.3 TEST PROCEDURES

- 1. A detector was used on the output port of the EUT. An oscilloscope was used to read the response of the detector.
- 2. Replaced the EUT by the signal generator. The center frequency of the S.G was adjusted to the center frequency of the measured channel.
- 3. Adjusted the power to have the same reading on oscilloscope. Record the power level.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6



4.4.7 TEST RESULTS

EUT	SoundBridge Radio Wi- Fi Music System	MODEL	R1000
MODULATION TYPE	BPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	22.646	13.55	30	PASS
6	2437	22.439	13.51	30	PASS
11	2462	22.751	13.57	30	PASS



4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



4.5.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span/3kHz for a full response of the mixer in the spectrum analyzer.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6



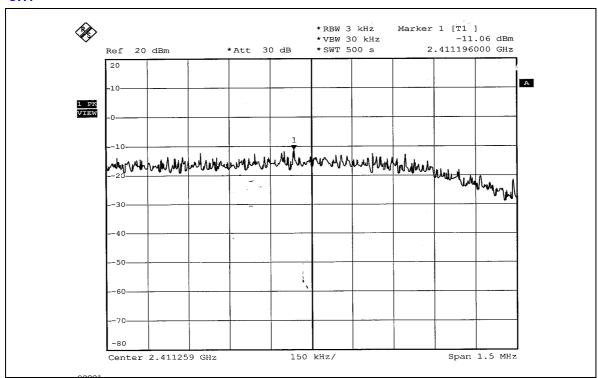
4.5.7 TEST RESULTS

EUT	SoundBridge Radio Wi- Fi Music System	MODEL	R1000
MODULATION TYPE	BPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH, 991hPa
TESTED BY	Long Chen		

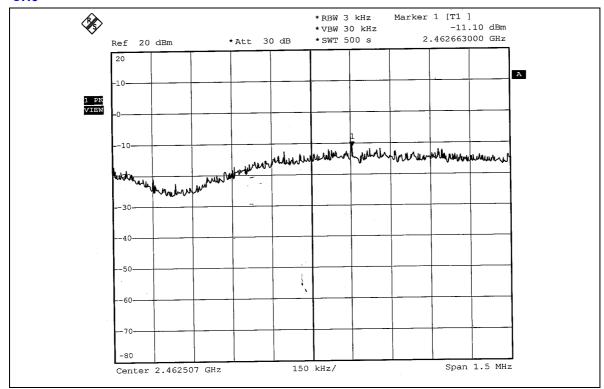
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-11.06	8	PASS
6	2437	-11.33	8	PASS
11	2462	-11.10	8	PASS



CH1

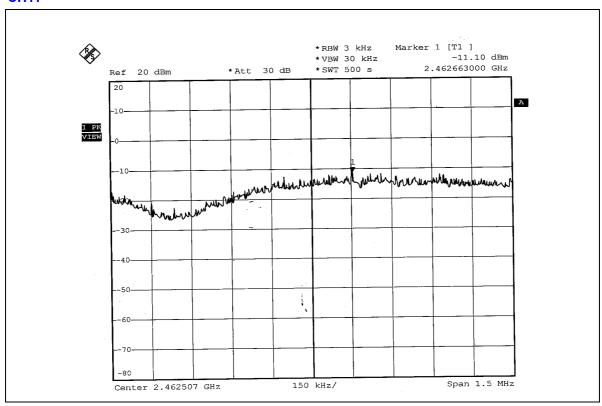


CH6





CH11





4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.6.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz and 100 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (Peak RBW=VBW=100kHz; Average RBW=1MHz, VBW=10Hz) are attached on the following pages.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6



4.6.6 TEST RESULTS

The spectrum plots are attached on the following 6 images. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(d).

NOTE 1:

The band edge emission plot on page 44 show 48.50 dBc delta between carrier maximum power and local maximum emission in restrict band (2.3874 GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 99.83 dBuV/m (Peak), so the maximum field strength in restrict band is 99.83 - 48.50 = 51.33 dBuV/m, which is under 74 dBuV/m limit.

The band edge emission plot on page 44 show 52.42dBc delta between carrier maximum power and local maximum emission in restrict band (2.3864GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 95.87dBuV/m (Average), so the maximum field strength in restrict band is 95.87 – 52.42 = 43.45dBuV/m, which is under 54dBuV/m limit.

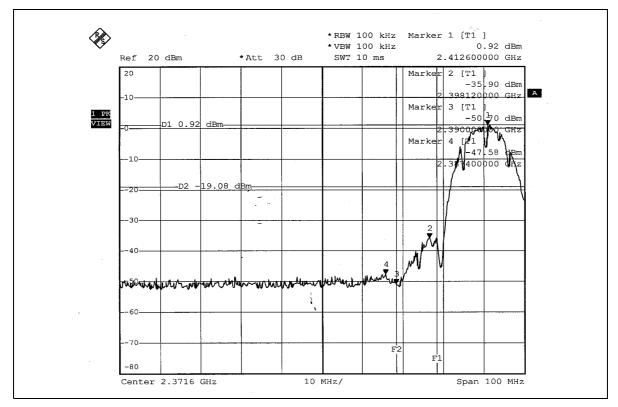
NOTE 2:

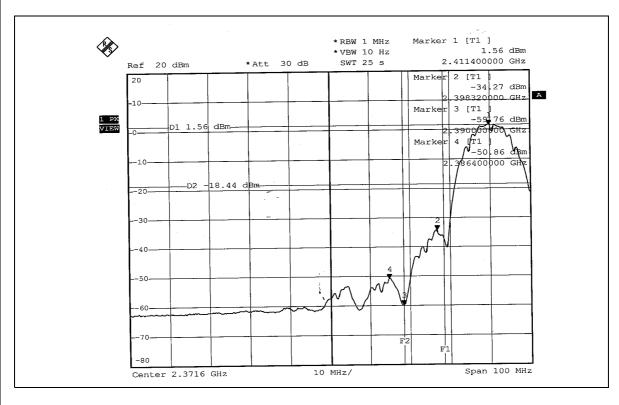
The band edge emission plot on the page 45 show 47.38dBc delta between carrier maximum power and local maximum emission in restrict band (2.48718GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 99.70dBuV/m (Peak), so the maximum field strength in restrict band is 99.70 –47.38 = 52.32dBuV/m, which is under 74dBuV/m limit.

The band edge emission plot on the page 46 show 50.97dBc delta between carrier maximum power and local maximum emission in restrict band (2.48678GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 95.66dBuV/m (Average), so the maximum field strength in restrict band is 95.66 – 50.97 = 44.69dBuV/m, which is under 54dBuV/m limit.

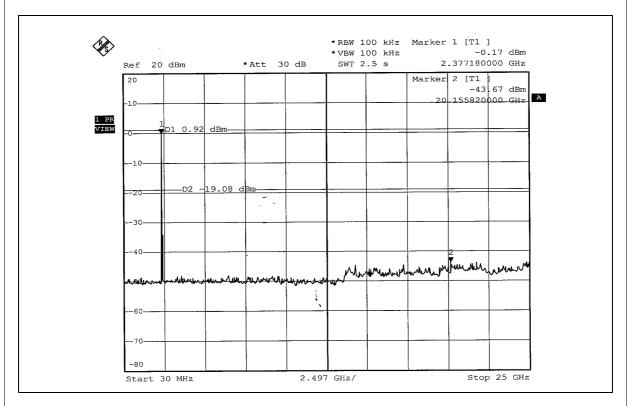
43

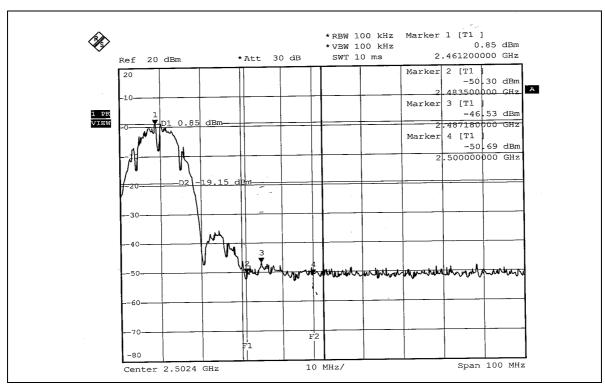




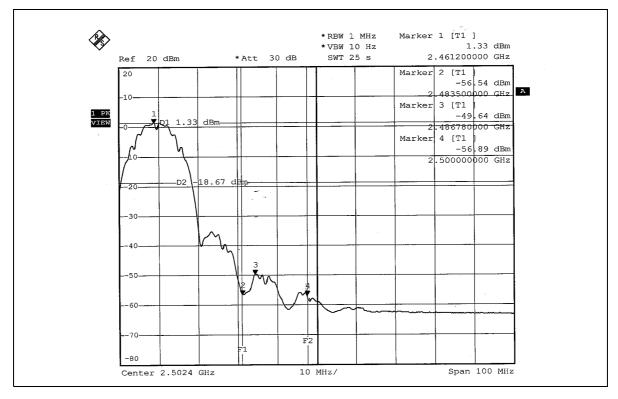


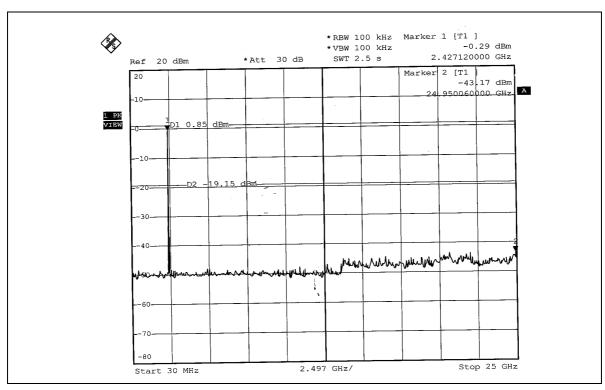














4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used in this product is PCB antenna with UFL antenna connector. The maximum Gain of the antenna is 5dBi.



5. PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST







RADIATED EMISSION TEST





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6. INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA FCC, NVLAP, UL, A2LA

Germany TUV Rheinland

Japan VCCI Norway NEMKO

Canada INDUSTRY CANADA, CSA

R.O.C. CNLA, BSMI, DGT

Netherlands Telefication

Singapore PSB , GOST-ASIA(MOU)

Russia CERTIS(MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

<u>www.adt.com.tw/index.5/phtml</u>. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:Hsin Chu EMC/RF Lab:Tel: 886-2-26052180Tel: 886-3-5935343Fax: 886-2-26052943Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab: Linko RF Lab.

Tel: 886-3-3183232 Tel: 886-3-3270910 Fax: 886-3-3185050 Fax: 886-3-3270892

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also



APPENDIX-A

MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB		
No any modifications are made to the EUT by the lab during the test.		