#### RADIATED EMISSIONS TEST REPORT 1 – 26 GHz

### I. GENERAL INFORMATION

Requirement: Federal Communications Commission

Class 2 Permissive Change Application

Test Requirements: 15.205, 15.207, 15.209, 15.247

Applicant: Sonos Inc.

506 Chapala

Santa Barbara, CA 93101

Product ID: FCC ID: SBVCR000 (Sonos Controller)

Date of Original Grant: 19 October 200

# II. DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

The SBVCR000 is an 802.11g-only controller for a wireless music distribution system.

# **RF Specifications**

RF Frequency Band 2412-2462 MHz

RF Channels 1, 6, and 11 only (limited by firmware)

Modulation Type 802.11g OFDM only (limited by firmware)

Transmitter Output Power +23 dBm maximum (0.200 watt)

Antenna to be added: 5 dBi circuit card antenna

### III. TEST LOCATION

All emissions tests were performed at:

Compliance Certification Services 571F Monterey Road Morgan Hill, CA 95037

Testing performed 28 July 2004.

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T.N. Cokenias Agent for Sonos Inc. 31 December 2004

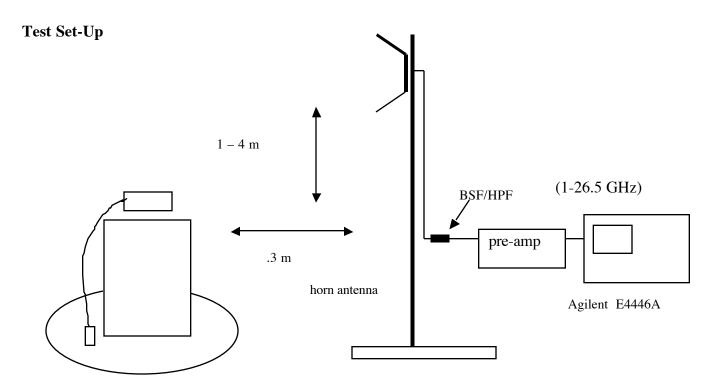
### TEST PROCEDURES

Radiated emissions testing per the methods of ANSI C63.4.

### **Measurement Equipment Used:**

Agilent E4446A spectrum analyzer EMCO 3115 horn antenna, 1-18 GHz ARA MWH-1826/B horn antenna, 18-26.5 GH Miteq 924321 pre-amplifier, 1-26 GHz Band stop filter 2.4-2.5 GHz

Radiated Emissions Above 1 GHz Test Requirement: 15.205, 15.209, 15.247



# Test Procedures, 1-26 GHz:

- 1. The EUT was placed on a wooden table resting on a turntable on the Site A 10m open area test site. The search antenna was placed 3m from the EUT. The EUT antenna was mounted vertically as per normal installation.
- 2. The turntable was slowly rotated to locate the direction of maximum emission at each emission falling in the restricted bands of 15.205.

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- 3. Radiated emissions were investigated for a LOW channel, a MID channel, and HIGH channel. Emissions were investigated to the 10<sup>th</sup> harmonic.
- 4. Once maximum direction was determined, the search antenna was raised and lowered in both vertical and horizontal polarizations. The maximum readings so obtained are recorded in the data listed below.

Testing was performed at 3 different frequencies

Channel	Frequency, MHz	
1 (Low)	2412 2437	
6 (Mid) 11 (High)	2462	

Radiated emissions were performed at each frequency for the following antenna:.

Antenna Type	Deployment	Gain	Antenna Mfr.	Model
Ckt card omni	Point to Multipoint	5 dBi max	Ricon Networks	НН

Test Results: PASS. Worst case results are presented. Refer to data below.

