

**EMT****ELECTRO MAGNETIC TEST, INC.**

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

*FCC PART 15, SUBPART B  
CLASS B TEST REPORT**for**the*

SLINGBOX PRO-HD

MODEL: SB300-100

Prepared for

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FOSTER CITY, CALIFORNIA 94404Prepared by: 

ALIKA HIRANO

Approved by: 

KEVIN BOTHMANN

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DATE: JUNE 5, 2008

	REPORT BODY	APPENDICES			TOTAL
		A	B	C	
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### GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Electro Magnetic Test, Inc., which is an independent testing and consulting firm. The test report is based on testing performed Electro Magnetic Test, Inc. personnel according to the measurement procedure described in the test specification given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced in any form unless done so in full.

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Federal Government.

Electro Magnetic Test, Inc. is recognized by the following agencies for performing EMI/EMC testing:

COUNTRY	AGENCY	IDENTIFYING #
USA	Federal Communications Commission (FCC) (EMT's test site is recognized by the FCC)	Registration Number: 90576
USA, Canada, Taiwan, Australia/New Zealand, European Community	National Voluntary Lab Accreditation Program (NVLAP) (EMT is accredited by NVLAP. A copy of the NVLAP Scope Of Accreditation is available upon request.)	Lab Code: 200147-0
Canada	Industry Canada	File No.: IC 2804
Japan	Voluntary Control Council For Interference (VCCI)	See Below
	Open Field Test Site Registration Number	R-589
	Conducted Emissions Test Site Registration Number	C-604
Korea	Ministry of Information and Communication's Radio Research Laboratory (RRL) under the Asia Pacific Economic Cooperation (APEC) Mutual Recognition Arrangement (A copy of the Scope Of Accreditation is available upon request)	US0036
Taiwan	Bureau Of Standards, Metrology and Inspection (BSMI)	Reference Number: SL2-IN-E-1024
Australia / New Zealand	Australian Communications Authority (AUSTEL)	*
European Community	UVV Rheinland (EMC for the European Community)	*

\*These agencies do not issue an identifying number to test labs.



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## **GENERAL REPORT SUMMARY (CONTINUED)**

Device Tested: Slingbox PRO-HD  
 Model: SB300-100  
 S/N: N/A

Product Description: The EUT is a breakthrough consumer electronics device that transforms today's TV viewing experience. It enables consumers to watch their TV programs from wherever they are by turning virtually any laptop or internet-connected device into a personal TV. It redirects, or "place shifts" the TV signal from any cable box, satellite receiver, or personal video recorder to a viewer's location and device of choice. The EUT is Sling Media Inc.'s first HD streaming product.

Modifications: The EUT was not modified during the testing.

Manufacturer: Sling Media, Inc.  
 1051 E. Hillsdale Blvd., Suite 500  
 Foster City, California 94404

Test Date(s): May 6, 2008

Test Specifications: EMI requirements  
 Limits: CISPR 22: 1997 plus A1:2000 & A2:2002 Class B  
 FCC Title 47, Part 15 Subpart B, Class B  
 Test Procedure: ANSI C63.4: 2003

Test Deviations: The test procedure was not deviated from during the testing.

## **SUMMARY OF TEST RESULTS**

<b>TEST</b>	<b>DESCRIPTION</b>	<b>RESULTS</b>
1	Conducted RF Emissions, 150 kHz - 30 MHz.	Complies with the <b>Class B</b> limits of CISPR 22: 1997 plus A1:2000 & A2:2002
2	Radiated RF Emissions, 30 MHz - 1000 MHz.	Complies with the <b>Class B</b> limits of CISPR 22: 1997 plus A1:2000 & A2:2002
3	Radiated RF Emissions, 1 GHz - 2 GHz.	Complies with the <b>Class B</b> limits of FCC Title 47, Part 15 Subpart B



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## 1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Slingbox PRO-HD, Model: SB300-100. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4: 2003. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the Class B specification limits defined by C.I.S.P.R. Publication 22 for Information Technology Equipment from 150 kHz to 1 GHz. Under paragraph G of section 15.109 of the Code of Federal Regulations Title 47, Part 15 of the FCC rules, FCC accepts the international standards set forth in C.I.S.P.R. Publication 22 and if the EUT meets the **Class B** specification limits defined in FCC Title 47, Part 15, Subpart B from 1 GHz to 2 GHz.



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## 2. ADMINISTRATIVE DATA

## 2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Electro Magnetic Test, Inc., 1547 Plymouth Street, Mountain View, California, 94043.

## 2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The measurement results in this report and the calibration of the test equipment are traceable to the National Institute of Standards and Technology (NIST).

## 2.3 Cognizant Personnel

## Sling Media, Inc.

Raghu Tarra Vice President, Engineering

## Electro Magnetic Test, Inc.

Alika Hirano      Test Technician  
Mario Garcia      Test Technician  
Doug Moon      Test Technician  
Kevin Bothmann      Lab Manager

## 2.4 Date Test Sample was Received

The test sample was received on May 6, 2008.

## 2.5 Disposition of the Test Sample

The test sample was returned to Sling Media, Inc. on May 9, 2008.

## 2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

RF	Radio Frequency
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
HP	Hewlett Packard
ITE	Information Technology Equipment
CML	Corrected Meter Limit
LISN	Line Impedance Stabilization Network
CISPR	International Special Committee On Radio Interference
FCC	Federal Communications Commission

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### 3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

SPEC	TITLE
FCC Title 47, Part 15, Subpart B	FCC Rules - Radio frequency devices (including digital devices).
ANSI C63.4 2003	Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz.
CISPR 22: 1997 plus A1:2000 & A2:2002	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement



## 4. DESCRIPTION OF TEST CONFIGURATION

### 4.1 Description of Test Configuration - EMI

The EUT was connected to the DVD player, Apple TV, LCD television, speaker, RF modulator, IR sensors, USB storage device, and remote laptop computer via its composite video/stereo audio input, digital audio input, S-Video input, stereo audio input, component video input, stereo audio output, component video output, RF video output, S-Video output, digital audio output, composite video/stereo audio output, RF video input, IR sensor, USB, and Ethernet ports, respectively. The LCD television was connected to its power supply via its power input port. The remote laptop computer was located approximately 10 meters outside the test site. During the testing process, the EUT -would accept video input from the DVD player, decode it, then transmit the video and audio content to the remote laptop computer, continuously.

It was determined that the emissions were at their highest level when the EUT was operating in the above configuration. The cables were moved to maximize the emissions. The final conducted as well as radiated data was taken in this mode of operation. All initial investigations were performed with the EMI receiver in manual mode scanning the frequency range continuously. The cables were bundled and routed as shown in the photographs in Appendix A.



## 4.1.1

**Cable Construction and Termination**Cable #1

This is a 50 foot unshielded CAT 5 Ethernet cable connecting the EUT to the remote laptop computer. It has an RJ45 plastic connector at both ends of the cable.

Cable #2

This is a 4 foot unshielded audio/video cable connecting the EUT to the DVD player. It has three RCA metallic connectors at both ends of the cable.

Cable #3

This is a 6 foot braid shielded S-Video cable connecting the EUT to the DVD player. It has a 4 pin mini DIN metallic connector at both ends of the cable. The cable was bundled to a length of 4 feet. The shield of the cable was grounded to the chassis via the connectors.

Cable #4

This is a 6.5 foot unshielded digital audio cable connecting the EUT to the DVD player. It has an RCA metallic connector at both ends of the cable. The cable was bundled to a length of 3.5 feet.

Cable #5

This is a 4 foot unshielded audio cable connecting the EUT to the Apple TV. It has two RCA metallic connectors at both ends of the cable.

Cable #6

This is a 4 foot unshielded component video cable connecting the EUT to the Apple TV. It has three RCA metallic connectors at both ends of the cable.

Cables #7-8

This is a 6 foot unshielded IR cable connecting the EUT to the IR sensors. It has a 1/8 inch stereo metallic connector at the EUT end, and is hardwired into the IR sensors. The cable was bundled to a length of 4.5 feet.

Cable #9

This is a 4 foot unshielded audio/video cable connecting the EUT to the RF modulator. It has three RCA metallic connectors at both ends of the cable.

Cable #10

This is a 6 foot braid shielded coax cable connecting the EUT to the RF modulator. It has metallic "F" connectors at both ends of the cable. The cable was bundled to a length of 4.5 feet. The shield of the cable was grounded to the chassis via the connectors.

Cable #11

This is a 6 foot braid shielded S-Video cable connecting the EUT to the LCD television. It has a 4 pin mini DIN metallic connector at both ends of the cable. The cable was bundled to a length of 4 feet. The shield of the cable was grounded to the chassis via the connectors.

Cable #12

This is a 4 foot unshielded audio/video cable connecting the EUT to the LCD television. It has three RCA metallic connectors at both ends of the cable.



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### **Cable Construction and Termination (Continued)**

#### Cable #13

This is a 4 foot unshielded component video cable connecting the EUT to the LCD television. It has three RCA metallic connectors at both ends of the cable.

#### Cable #14

This is a 6 foot braid shielded coax cable connecting the EUT to the LCD television. It has metallic "F" connectors at both ends of the cable. The cable was bundled to a length of 4.5 feet. The shield of the cable was grounded to the chassis via the connectors.

#### Cable #15

This is a 6 foot unshielded digital audio cable connecting the EUT to the speaker. It has an RCA metallic connector at both ends of the cable. The cable was bundled to a length of 4.5 feet.



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## 5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

### 5.1 EUT and Accessory List

EQUIPMENT TYPE	MANUFACTURER	MODEL	SERIAL NUMBER	FCC ID
SLINGBOX PRO-HD (EUT)	SLING MEDIA, INC.	SB300-100	N/A	N/A
POWER SUPPLY (EUT)	KTEC	KSAFF0500400 W1US	N/A	DoC
DVD PLAYER	SAMSUNG	DVD-HD870/XAA	94336CHP501849Z	N/A
APPLE TV	APPLE	A1218	YM712JS2WH7	DoC
RF MODULATOR	RCA	CRF940	21844141	DoC
LCD TELEVISION	LG	20LS7D-UB	706MXJX0X396	BEJ20LBC MB
SPEAKER	ROLAND	MA-15D	BV93271	N/A
USB STORAGE DEVICE	TRANSCEND	JK V30	N/A	DoC

#### THE FOLLOWING WERE LOCATED OUTSIDE THE TEST SITE:

REMOTE LAPTOP COMPUTER	DELL, INC.	PP11L	8VVZ671	DoC
REMOTE LAPTOP COMPUTER POWER SUPPLY	DELL, INC.	DA90PS0-00	CN-0XD757-48661-63G-50B3	N/A



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## 5.2

### EMI Test Equipment

EQUIPMENT TYPE	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. CYCLE
Spectrum Analyzer	Hewlett Packard	8566B	3013A07296	February 27, 2008	1 Year
RF Preselector	Hewlett Packard	85685A	3010A01157	March 7, 2008	1 Year
Quasi-Peak Adapter	Hewlett Packard	85650A	2521A00584	March 3, 2008	1 Year
Preamplifier	Com Power	PA-102	1482	March 3, 2008	1 Year
RF Attenuator	Mini-Circuits	CAT-10	Asset #1000	December 8, 2007	1 Year
LISN	Com Power	LI-200	12012	July 1, 2007	1 Year
LISN	Com Power	LI-200	12214	July 1, 2007	1 Year
LISN	Com Power	LI-200	1767	July 1, 2007	1 Year
LISN	Com Power	LI-200	1768	July 1, 2007	1 Year
Biconical Antenna	Com Power	AB-100	01557	November 4, 2007	1 Year
Log Periodic Antenna	Com Power	AL-100	16037	November 4, 2007	1 Year
Horn Antenna	Com Power	AHA-118	711054	N/A	N/A
Antenna Mast	Com Power	AM-400	N/A	N/A	N/A
Turntable	Com Power	TT-100	N/A	N/A	N/A
Computer	Dell, Inc.	DHS	DNSV641	N/A	N/A
Printer	Hewlett Packard	C8124A	CN39B2234T	N/A	N/A
Plotter	Hewlett Packard	7470A	2308A96499	N/A	N/A



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## 6. TEST SITE DESCRIPTION

### 6.1 Test Facility Description

Please refer to section 7.1.1 and 7.1.2 of this report for EMI test location.

### 6.2 EUT Mounting, Bonding and Grounding

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

The EUT was not grounded.



## 7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests.

### 7.1 RF Emissions

#### 7.1.1 Conducted Emissions Test

The HP 8566B spectrum analyzer was used as a measuring meter along with the HP 85650A quasi-peak adapter. The data was collected with the spectrum analyzer in the peak detect mode with the "Max Hold" feature activated. The quasi-peak detector was used only where indicated in the data sheets. A 10 dB attenuation pad was used for the protection of the spectrum analyzer input stage, and the spectrum analyzer offset was adjusted accordingly to read the actual data measured. The LISN output was read by the HP 8566B spectrum analyzer. The output of the second LISN was terminated by a 50 ohm termination. The effective measurement bandwidth used for the conducted emissions test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI C63.4: 2003. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length.

The initial test data was taken in manual mode while scanning the frequency ranges of 0.150 MHz to 0.450 MHz, 0.450 MHz to 1.6 MHz, 1.6 MHz to 5 MHz and 5 MHz to 30 MHz. The conducted emissions from the EUT were maximized for operating mode as well as cable and peripheral placement. Once a predominant frequency (within 12 dB of the limit) was found, it was more closely examined with the spectrum analyzer span adjusted to 1 MHz.

The final data was collected under program control by the HP 85869PC software in several overlapping sweeps by running the spectrum analyzer at a minimum scan rate of 10 seconds per octave.

Associated with the conducted emission test data in this report is a  $\pm 2.6$ dB measurement uncertainty.



## 7.1.2

**Radiated Emissions Test**

The HP 8566B spectrum analyzer was used as a measuring meter along with the HP 85650A quasi-peak adapter. The Com Power Preamplifier PA-102 was used to increase the sensitivity of the instrument. The spectrum analyzer was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps. The HP 85650A quasi-peak adapter was used only for those readings which are marked accordingly on the data sheets. The effective measurement bandwidth used for the radiated emissions test was 120 kHz from 30 MHz to 1 GHz and 1 MHz from 1 GHz to 10.7 GHz.

Broadband biconical, log periodic and horn antennas were used as transducers during the measurement. The biconical antenna was used from 30 MHz to 300 MHz, the log periodic antenna was used from 300 MHz to 1 GHz, and the horn antenna was used from 1 GHz to 10.7 GHz. The frequency spans were wide (30 MHz to 88 MHz, 88 MHz to 216 MHz, 216 to 300 MHz, 300 MHz to 1 GHz and 1 GHz to 10.7 GHz) during preliminary investigations. The final data was taken with a frequency span of 1 MHz. Furthermore, the frequency span was reduced during the preliminary investigations as deemed necessary.

The open field test site of Electro Magnetic Test, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4: 2003. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength).

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT was tested at a 10 meter test distance from 30 MHz to 1 GHz and at a distance of 3 meters from 1 GHz to 10.7 GHz to obtain final test data.

Calculation Of Radiated Emission Test Data:

Amplitude - Gain + Antenna Factor + Cable Loss = Corrected Amplitude

Corrected Amplitude - Limit = Margin

Associated with the radiated emission test data in this report is a  $\pm 4.5\text{dB}$  measurement uncertainty.



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8.

## CONCLUSIONS / COMPLIANCE STATEMENT

Based upon the results contained in this report, Electro Magnetic Test, Inc. has determined that the Slingbox PRO-HD, Model: SB300-100 meets all of the Class B specification limits defined by C.I.S.P.R. Publication 22 for Information Technology Equipment from 150 kHz to 1 GHz. Under paragraph G of section 15.109 of the Code of Federal Regulations Title 47, Part 15 of the FCC rules, FCC accepts the international standards set forth in C.I.S.P.R. Publication 22. The EUT also meets the **Class B** specification limits defined in FCC Title 47, Part 15, Subpart B from 1 GHz to 2 GHz.

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**APPENDIX A**

***RADIATED AND CONDUCTED EMISSIONS  
DATA SHEETS***

Electro Magnetic Test, Inc.  
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Radiated Emissions Test Data

Purpose of Test:  QUALIFICATION  ENGINEERING  MANUFACTURING AUDIT  
CISPR 22 Class B Test Date: 05-06-08  
Company Name: SLING MEDIA, INC.  
EUT Model Number: SB300-100  
EUT Serial Number: N/A  
EUT Description: SLINGBOX PRO-HD

Test Setup Configuration

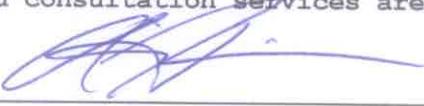
EUT Clock Speeds: 1.536 MHz, 8 MHz, 16 MHz, 24 MHz, 24.576 MHz, 24.69 MHz, 25 MHz,  
27 MHz, 28.636 MHz, 74.4 MHz, 310.5 MHz

EUT Power Cords:  SHIELDED  NOT SHIELDED  
EUT tested at:  LOW SPEED  HIGH SPEED  
EUT is:  IN COMPLIANCE  OUT OF COMPLIANCE with CISPR 22 Class B.

EUT Modifications during this test:  
 MODIFIED  NOT MODIFIED

Modifications: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NOTE: A formal report on passing data will be generated when required.  
Design, debug and consultation services are available at all times.

Test Engineer:  (ALIKA HIRANO)

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CISPR 22 Class B Test Date: 05-06-08  
 Company Name: SLING MEDIA, INC.  
 EUT Model Number: SB300-100  
 EUT Description: SLINGBOX PRO-HD

RADIATED EMISSION TEST RESULTS

Freq MHz	Ampl dBuV	M ---	P ---	A ---	Ht m	Dist m	Ori deg	Gain dB	ACor dBuV/m	CCor dB	DCor dB	CorAmp dBuV/m	Limit dBuV/m	Margin dB	Flags FH---
<b>VERTICAL POLARIZATION</b>															
33.794	39.5	P	V	B	1.0	10.0	90	28.1	11.1	1.5	0.0	24.0	30.0	-6.0	-----
44.694	45.9	P	V	B	1.0	10.0	135	28.1	10.6	1.5	0.0	29.9	30.0	-0.1	-----
44.695	42.7	Q	V	B	1.0	10.0	135	28.1	10.6	1.5	0.0	26.7	30.0	-3.3	-----
82.929	43.4	P	V	B	1.5	10.0	45	28.2	8.7	1.8	0.0	25.7	30.0	-4.3	-----
86.011	48.9	P	V	B	1.0	10.0	180	28.2	8.7	1.9	0.0	31.3	30.0	1.3	F-----
86.014	47.3	Q	V	B	1.0	10.0	180	28.2	8.7	1.9	0.0	29.7	30.0	-0.3	-----
129.014	43.5	P	V	B	1.0	10.0	315	28.6	11.3	2.2	0.0	28.4	30.0	-1.6	-----
129.014	42.4	Q	V	B	1.0	10.0	315	28.6	11.3	2.2	0.0	27.3	30.0	-2.7	-----
162.003	40.2	P	V	B	1.5	10.0	45	28.7	13.6	2.5	0.0	27.6	30.0	-2.4	-----
162.003	37.8	Q	V	B	1.5	10.0	45	28.7	13.6	2.5	0.0	25.1	30.0	-4.9	-----
215.987	38.7	P	V	B	1.0	10.0	315	28.9	16.3	2.9	0.0	29.0	30.0	-1.0	-----
215.988	37.3	Q	V	B	1.0	10.0	315	28.9	16.3	2.9	0.0	27.6	30.0	-2.4	-----
222.743	40.2	P	V	B	1.0	10.0	45	28.9	16.5	3.0	0.0	30.8	30.0	0.8	F-----
222.748	38.9	Q	V	B	1.0	10.0	45	28.9	16.5	3.0	0.0	29.5	30.0	-0.5	-----
249.998	37.2	P	V	B	1.0	10.0	45	28.0	18.3	3.0	0.0	30.5	37.0	-6.5	-----
300.012	37.4	P	V	L	2.0	10.0	180	28.0	13.5	3.4	0.0	26.3	37.0	-10.7	-----
371.241	40.2	P	V	L	2.0	10.0	180	28.3	15.1	3.8	0.0	30.8	37.0	-6.2	-----
399.997	37.3	P	V	L	4.0	10.0	225	28.1	15.7	3.9	0.0	28.8	37.0	-8.2	-----
499.767	33.0	P	V	L	2.0	10.0	90	28.3	17.6	4.6	0.0	26.9	37.0	-10.1	-----
575.013	30.8	P	V	L	1.0	10.0	180	28.3	19.0	4.8	0.0	26.3	37.0	-10.7	-----
750.005	29.4	P	V	L	3.0	10.0	0	27.6	20.9	5.5	0.0	28.2	37.0	-8.8	-----
800.000	29.8	P	V	L	2.0	10.0	135	27.6	22.0	5.8	0.0	30.0	37.0	-7.0	-----
900.028	31.0	P	V	L	2.0	10.0	315	27.6	22.6	6.0	0.0	32.0	37.0	-5.0	-----
<b>HORIZONTAL POLARIZATION</b>															
33.790	43.1	P	H	B	3.0	10.0	180	28.1	11.1	1.5	0.0	27.6	30.0	-2.4	-----
33.790	41.4	Q	H	B	3.0	10.0	180	28.1	11.1	1.5	0.0	25.9	30.0	-4.1	-----
44.763	39.7	P	H	B	4.0	10.0	135	28.1	10.6	1.5	0.0	23.7	30.0	-6.3	-----
82.967	40.4	P	H	B	2.5	10.0	225	28.2	8.7	1.8	0.0	22.7	30.0	-7.3	-----
86.024	39.8	P	H	B	2.5	10.0	45	28.2	8.7	1.9	0.0	22.2	30.0	-7.8	-----
129.017	39.2	P	H	B	4.0	10.0	315	28.6	11.3	2.2	0.0	24.1	30.0	-5.9	-----
162.018	34.3	P	H	B	3.0	10.0	315	28.7	13.6	2.5	0.0	21.7	30.0	-8.3	-----
215.997	34.4	P	H	B	3.5	10.0	0	28.9	16.3	2.9	0.0	24.7	30.0	-5.3	-----
222.739	39.9	P	H	B	4.0	10.0	315	28.9	16.5	3.0	0.0	30.5	30.0	0.5	F-----
222.739	38.6	Q	H	B	4.0	10.0	315	28.9	16.5	3.0	0.0	29.2	30.0	-0.8	-----
249.990	39.9	P	H	B	4.0	10.0	270	28.0	18.3	3.0	0.0	33.2	37.0	-3.8	-----
249.991	38.3	Q	H	B	4.0	10.0	270	28.0	18.3	3.0	0.0	31.6	37.0	-5.4	-----
300.008	38.1	P	H	L	1.0	10.0	315	28.0	13.5	3.4	0.0	27.0	37.0	-10.0	-----
371.248	41.6	P	H	L	2.0	10.0	225	28.3	15.1	3.8	0.0	32.2	37.0	-4.8	-----
400.012	35.4	P	H	L	1.5	10.0	270	28.1	15.7	3.9	0.0	26.9	37.0	-10.1	-----
499.763	35.5	P	H	L	4.0	10.0	225	28.3	17.6	4.6	0.0	29.4	37.0	-7.6	-----
575.001	31.2	P	H	L	1.5	10.0	315	28.3	19.0	4.8	0.0	26.7	37.0	-10.3	-----
750.016	31.8	P	H	L	2.0	10.0	180	27.6	20.9	5.5	0.0	30.6	37.0	-6.4	-----
800.003	31.5	P	H	L	1.5	10.0	135	27.6	22.0	5.8	0.0	31.7	37.0	-5.3	-----
900.022	31.1	P	H	L	1.5	10.0	90	27.6	22.6	6.0	0.0	32.1	37.0	-4.9	-----

R4

Electro Magnetic Test, Inc.  
1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

Radiated Emissions Test Data

Purpose of Test:  QUALIFICATION  ENGINEERING  MANUFACTURING AUDIT  
FCC Class B Test Date: 05-06-08  
Company Name: SLING MEDIA, INC.  
EUT Model Number: SB300-100  
EUT Serial Number: N/A  
EUT Description: SLINGBOX PRO-HD

Test Setup Configuration

EUT Clock Speeds: 1.536 MHz, 8 MHz, 16 MHz, 24 MHz, 24.576 MHz, 24.69 MHz, 25 MHz,  
27 MHz, 28.636 MHz, 74.4 MHz, 310.5 MHz

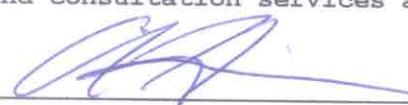
EUT Power Cords:  SHIELDED  NOT SHIELDED  
EUT tested at:  LOW SPEED  HIGH SPEED  
EUT is:  IN COMPLIANCE  OUT OF COMPLIANCE with FCC Class B.

EUT Modifications during this test:  
 MODIFIED  NOT MODIFIED

Modifications: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NOTE: A formal report on passing data will be generated when required.  
Design, debug and consultation services are available at all times.

Test Engineer:

 (ALIKA HIRANO)

## Electro Magnetic Test, Inc.

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

FCC Class B                    Test Date: 05-06-08  
 Company Name:                SLING MEDIA, INC.  
 EUT Model Number:            SB300-100  
 EUT Description:             SLINGBOX PRO-HD

## RADIATED EMISSION TEST RESULTS

Freq MHz	Ampl dBuV	M ---	P ---	A ---	Ht m	Dist m	Ori deg	Gain dB	ACor dBuV/m	CCor dB	DCor dB	CorAmp dBuV/m	Limit dBuV/m	Margin dB	Flags FH---
<hr/>															
VERTICAL POLARIZATION															
1039.510	31.3	P	V	H	1.0	3.0	225	0.0	-3.3	4.7	0.0	32.7	54.0	-21.3	-----
1196.281	38.9	P	V	H	1.5	3.0	180	0.0	-2.5	5.0	0.0	41.4	54.0	-12.6	-----
1403.973	31.8	P	V	H	1.5	3.0	180	0.0	-1.5	5.4	0.0	35.7	54.0	-18.3	-----
1500.042	29.7	P	V	H	2.0	3.0	90	0.0	-1.0	5.6	0.0	34.3	54.0	-19.7	-----
1595.030	34.3	P	V	H	1.5	3.0	180	0.0	-0.7	5.8	0.0	39.4	54.0	-14.6	-----
1920.110	31.5	P	V	H	2.0	3.0	180	0.0	0.3	6.5	0.0	38.3	54.0	-15.7	-----
HORIZONTAL POLARIZATION															
1039.519	29.9	P	H	H	2.0	3.0	90	0.0	-3.3	4.7	0.0	31.3	54.0	-22.7	-----
1196.276	41.1	P	H	H	1.0	3.0	225	0.0	-2.5	5.0	0.0	43.6	54.0	-10.4	-----
1403.972	32.7	P	H	H	1.0	3.0	270	0.0	-1.5	5.4	0.0	36.6	54.0	-17.4	-----
1500.017	27.3	P	H	H	2.0	3.0	180	0.0	-1.0	5.6	0.0	31.9	54.0	-22.1	-----
1595.029	33.1	P	H	H	1.0	3.0	270	0.0	-0.7	5.8	0.0	38.2	54.0	-15.8	-----
1920.116	31.6	P	H	H	1.5	3.0	225	0.0	0.3	6.5	0.0	38.4	54.0	-15.6	-----

**EMT**

**ELECTRO MAGNETIC TEST, INC.**

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

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PHOTOS ARE CONFIDENTIAL, PLEASE SEE TEST SETUP PHOTOS

**FRONT VIEW**

SLING MEDIA, INC.  
SLINGBOX PRO-HD  
MODEL: SB300-100

**CISPR 22/FCC CLASS B - RADIATED EMISSIONS - 5-06-08**

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**

**EMT**

**ELECTRO MAGNETIC TEST, INC.**

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

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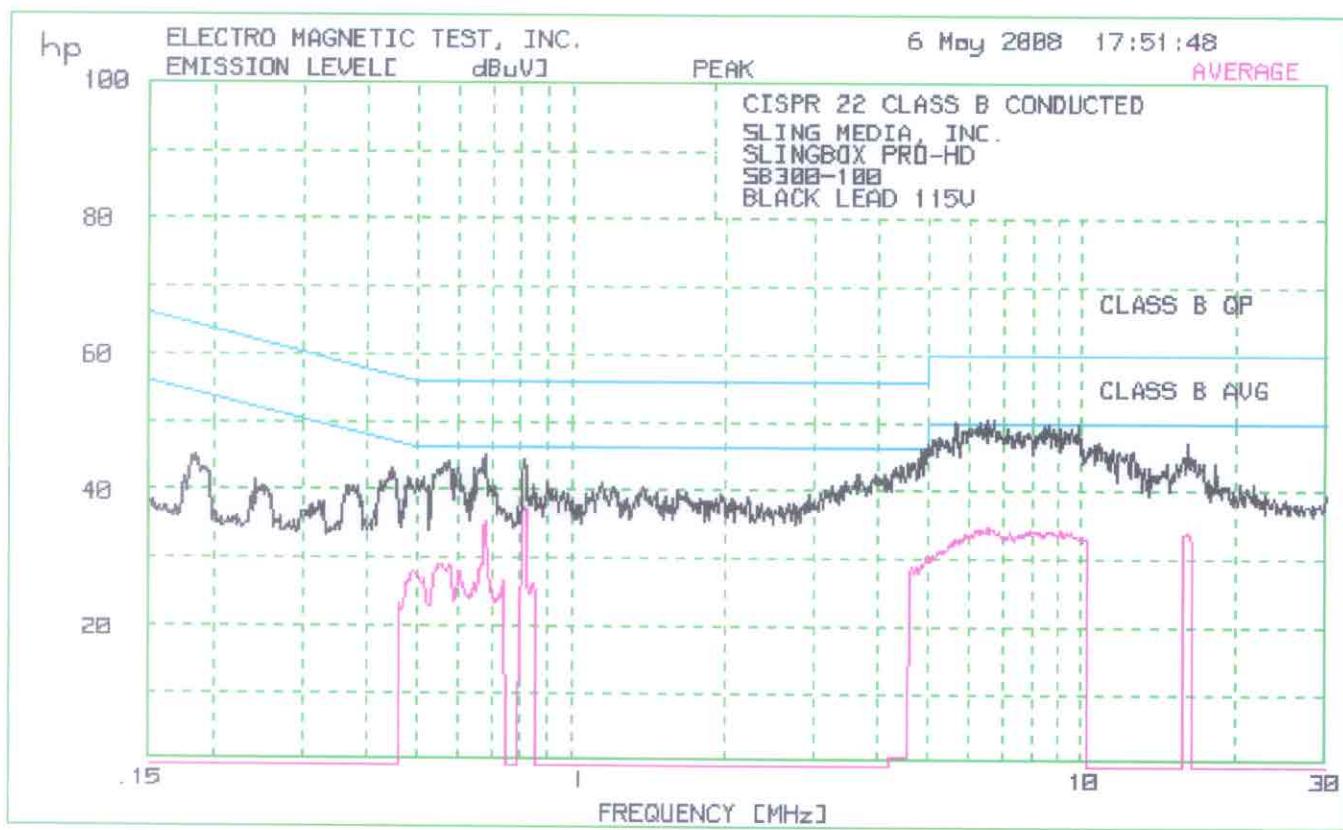
PHOTOS ARE CONFIDENTIAL, PLEASE SEE TEST SETUP PHOTOS

**REAR VIEW**

SLING MEDIA, INC.  
SLINGBOX PRO-HD  
MODEL: SB300-100

**CISPR 22/FCC CLASS B - RADIATED EMISSIONS - 5-06-08**

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**



ELECTRO MAGNETIC TEST, INC.

6 May 2008 17:51:48

## 1. CONDUCTED WITH PRESELECTOR

## 1.2 CISPR 22 CLASS B CONDUCTED

120 highest Peaks above -50 dB of Limit Line #2  
peak criteria = .1 dB

PEAK#	FREQ (MHz)	(dBuV)	DELTA
1	4.987	46.8	.8
2	6.708	50.5	.5
3	6.533	50.4	.4
4	4.831	46.3	.3
5	4.935	46.1	.1
6	5.663	50.1	.1
7	6.295	50.1	.1
8	8.602	50	0.0
9	4.883	45.9	-.1
10	6.464	49.9	-.1
11	9.819	49.8	-.2
12	8.422	49.4	-.6
13	6.034	49.3	-.7
14	6.098	49.3	-.7
15	6.196	49.3	-.7
16	6.396	49.3	-.7
17	8.74	49.3	-.7
18	9.563	49.3	-.7
19	.6816	45.2	-.8
20	7.148	49.2	-.8
21	9.022	49.2	-.8
22	5.908	49	-1.0
23	6.637	49	-1.0
24	6.888	48.9	-1.1
25	4.78	44.8	-1.2
26	5.815	48.8	-1.2
27	7.536	48.7	-1.3
28	9.264	48.7	-1.3
29	8.246	48.6	-1.4
30	9.363	48.6	-1.4
31	.8117	44.4	-1.6
32	7.417	48.4	-1.6
33	7.821	48.4	-1.6
34	8.88	48.4	-1.6
35	.5785	44.2	-1.8
36	4.558	44.2	-1.8
37	4.656	44.2	-1.8
38	7.697	48.2	-1.8
39	7.946	48.2	-1.8
40	8.116	48.2	-1.8
41	9.665	48.2	-1.8
42	4.705	44.1	-1.9
43	6.961	48.1	-1.9
44	7.224	48.1	-1.9
45	.5693	43.8	-2.2
46	4.392	43.8	-2.2
47	5.23	47.8	-2.2
48	7.035	47.8	-2.2
49	9.924	47.8	-2.2
50	5.603	47.7	-2.3
51	9.167	47.7	-2.3
52	4.439	43.6	-2.4
53	5.399	47.6	-2.4
54	5.094	47.5	-2.5
55	4.346	43.4	-2.6
56	5.148	47.4	-2.6
57	5.314	47.4	-2.6
58	5.457	47.3	-2.7
59	10.8	47.3	-2.7
60	16.06	47.3	-2.7
61	4.277	43.2	-2.8
62	5.753	47.2	-2.8

63	.6035	43.1	-2.9
64	.6499	43.1	-2.9
65	.5604	43	-3.0
66	.6673	43	-3.0
67	7.339	46.9	-3.1
68	.5908	42.8	-3.2
69	10.63	46.8	-3.2
70	.5486	42.7	-3.3
71	10.52	46.7	-3.3
72	4.122	42.6	-3.4
73	5.515	46.6	-3.4
74	10.35	46.6	-3.4
75	3.63	42.5	-3.5
76	10.92	46.5	-3.5
77	3.669	42.4	-3.6
78	3.951	42.4	-3.6
79	.4487	43.1	-3.7
80	11.45	46.2	-3.8
81	5.04	46.1	-3.9
82	10.08	46.1	-3.9
83	.54	42	-4.0
84	.5149	41.9	-4.1
85	3.909	41.9	-4.1
86	12.59	45.9	-4.1
87	4.057	41.8	-4.2
88	4.166	41.8	-4.2
89	11.88	45.8	-4.2
90	10.19	45.7	-4.3
91	3.443	41.6	-4.4
92	3.592	41.6	-4.4
93	12.2	45.6	-4.4
94	.4806	41.8	-4.5
95	4.21	41.5	-4.5
96	.4439	42.3	-4.6
97	12.46	45.4	-4.6
98	.5014	41.3	-4.7
99	3.708	41.3	-4.7
100	15.73	45.3	-4.7
101	15.9	45.3	-4.7
102	16.32	45.3	-4.7
103	.9023	41.1	-4.9
104	11.21	45.1	-4.9
105	.4857	41.3	-4.9
106	1.145	41	-5.0
107	.5094	40.9	-5.1
108	.8468	40.9	-5.1
109	3.248	40.9	-5.1
110	3.807	40.9	-5.1
111	16.58	44.9	-5.1
112	3.407	40.8	-5.2
113	3.371	40.7	-5.3
114	3.498	40.7	-5.3
115	.5259	40.6	-5.4
116	.6131	40.6	-5.4
117	.7073	40.6	-5.4
118	3.554	40.6	-5.4
119	.437	41.5	-5.6
120	.6925	40.4	-5.6

ELECTRO MAGNETIC TEST, INC.

6 May 2008 17:51:48

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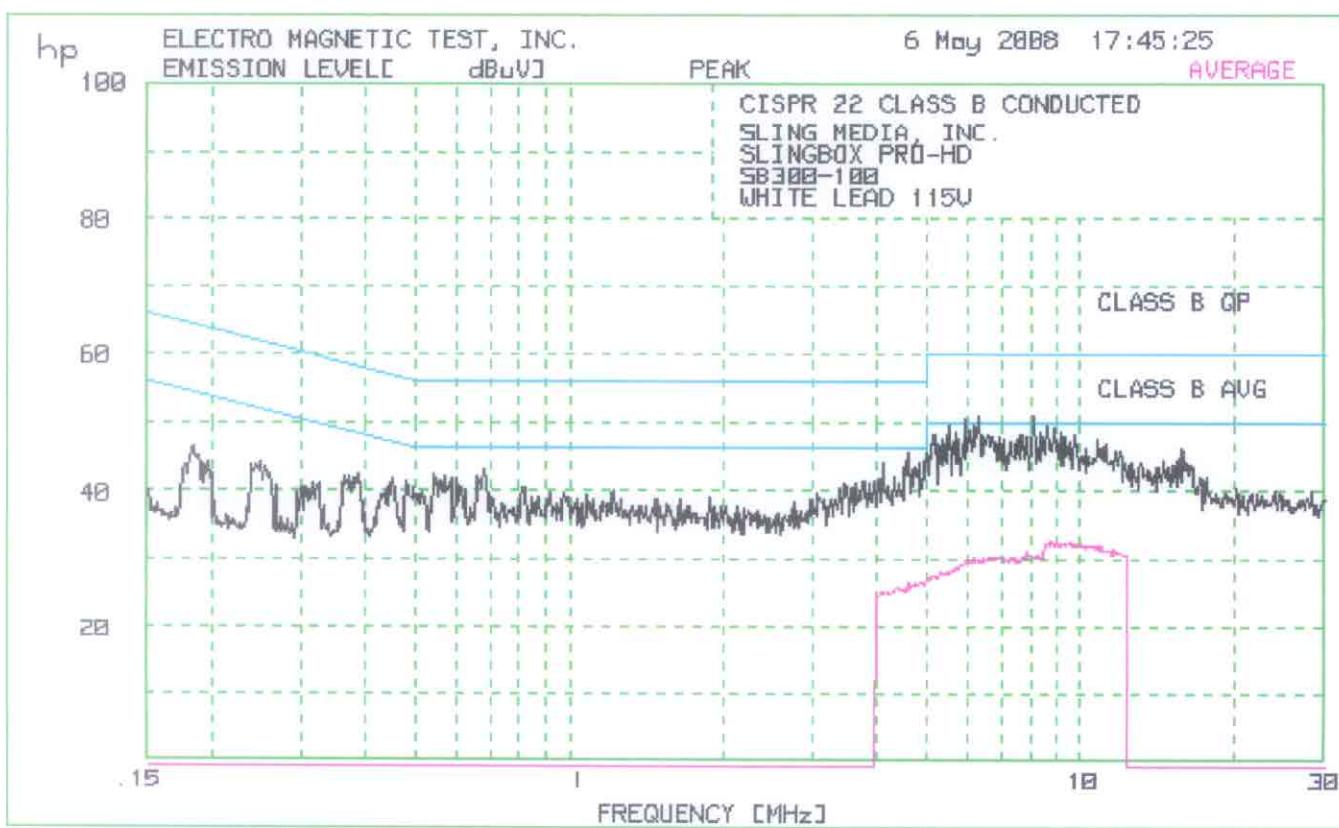
 1. CONDUCTED WITH PRESELECTOR  
 1.2 CISPR 22 CLASS B CONDUCTED
 

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Avg Peaks above -50 dB of Limit Line #2

peak criteria = .1 dB

PEAK#	FREQ (MHz)	(dBuV)	DELTA
1	.8117	37.3	-8.7
2	.6816	35.5	-10.5
3	6.498	34.7	-15.3
4	6.602	34.6	-15.4
5	6.163	34.5	-15.5
6	6.328	34.4	-15.6
7	9.022	34.4	-15.6
8	4.961	30.3	-15.7
9	6.396	34.3	-15.7
10	7.904	34.3	-15.7
11	6.888	34.1	-15.9
12	7.779	34.1	-15.9
13	7.988	34.1	-15.9
14	8.602	34.1	-15.9
15	8.74	34.1	-15.9
16	7.224	33.9	-16.1
17	8.202	33.9	-16.1
18	9.167	33.9	-16.1
19	9.313	33.9	-16.1
20	9.513	33.9	-16.1
21	16.06	33.9	-16.1
22	6.098	33.8	-16.2
23	5.939	33.7	-16.3
24	7.536	33.7	-16.3
25	6.002	33.5	-16.5
26	7.072	33.5	-16.5
27	9.768	33.5	-16.5
28	10.03	33.5	-16.5
29	4.831	29.4	-16.6
30	.5545	29.1	-16.9
31	4.631	29.1	-16.9
32	5.753	33.1	-16.9
33	10.14	33.1	-16.9
34	.6673	29	-17.0
35	.5785	28.9	-17.1
36	4.73	28.9	-17.1
37	5.663	32.9	-17.1
38	5.603	32.7	-17.3
39	.5429	28.3	-17.7
40	4.582	28.3	-17.7
41	5.515	32.3	-17.7
42	5.457	32.2	-17.8
43	.6035	28	-18.0
44	.4988	27.8	-18.2
45	.4909	27.9	-18.2
46	5.286	31.5	-18.5
47	5.23	31.4	-18.6
48	.5149	26.9	-19.1
49	5.175	30.9	-19.1
50	.7418	26.7	-19.3
51	5.094	30.6	-19.4
52	.6499	26.4	-19.6
53	.4806	26.6	-19.7
54	.8423	26.3	-19.7
55	5.04	30.3	-19.7
56	.8291	25.3	-20.7
57	.6397	25.2	-20.8
58	.7263	24.6	-21.4
59	.7149	23.9	-22.1
60	.4631	23.2	-23.4



ELECTRO MAGNETIC TEST, INC.

6 May 2008 17:45:25

## 1. CONDUCTED WITH PRESELECTOR

## 1.2 CISPR 22 CLASS B CONDUCTED

60 highest Peaks above -50 dB of Limit Line #2  
 peak criteria = .1 dB

PEAK#	FREQ (MHz)	(dBuV)	DELTA
1	8.116	51	1.0
2	6.328	50.7	.7
3	5.97	50.6	.6
4	4.606	45.6	-.4
5	6.163	49.6	-.4
6	8.602	49.6	-.4
7	4.987	45.4	-.6
8	5.544	49.4	-.6
9	8.88	49.2	-.8
10	6.262	49.1	-.9
11	6.066	49	-1.0
12	5.723	48.6	-1.4
13	8.378	48.6	-1.4
14	4.534	44.5	-1.5
15	9.167	48.4	-1.6
16	5.203	48.2	-1.8
17	6.567	48.2	-1.8
18	9.716	48.2	-1.8
19	5.148	48.1	-1.9
20	7.616	48.1	-1.9
21	4.1	44	-2.0
22	4.831	44	-2.0
23	6.43	47.8	-2.2
24	7.862	47.8	-2.2
25	9.363	47.8	-2.2
26	6.743	47.7	-2.3
27	6.924	47.7	-2.3
28	8.467	47.7	-2.3
29	6.498	47.6	-2.4
30	7.072	47.6	-2.4
31	7.496	47.6	-2.4
32	8.975	47.6	-2.4
33	4.755	43.5	-2.5
34	8.694	47.5	-2.5
35	5.371	47.4	-2.6
36	10.8	47.4	-2.6
37	6.815	47.2	-2.8
38	4.705	43.1	-2.9
39	5.633	47.1	-2.9
40	.6816	43	-3.0
41	7.262	47	-3.0
42	9.513	47	-3.0
43	5.876	46.7	-3.3
44	11.21	46.7	-3.3
45	.5457	42.6	-3.4
46	7.738	46.6	-3.4
47	5.094	46.5	-3.5
48	5.286	46.5	-3.5
49	8.246	46.2	-3.8
50	4.323	42.1	-3.9
51	11.03	46.1	-3.9
52	15.73	46.1	-3.9
53	.5724	42	-4.0
54	.6638	42	-4.0
55	10.19	46	-4.0
56	.5877	41.9	-4.1
57	11.94	45.9	-4.1
58	.5515	41.8	-4.2
59	.6035	41.8	-4.2
60	11.69	45.8	-4.2

ELECTRO MAGNETIC TEST, INC.

6 May 2008 17:45:25

## 1. CONDUCTED WITH PRESELECTOR

## 1.2 CISPR 22 CLASS B CONDUCTED

Avg Peaks above -50 dB of Limit Line #2

peak criteria = .1 dB

PEAK#	FREQ (MHz)	(dBuV)	DELTA
1	8.74	32.8	-17.2
2	8.975	32.8	-17.2
3	9.563	32.7	-17.3
4	8.602	32.5	-17.5
5	9.264	32.5	-17.5
6	9.768	32.5	-17.5
7	8.512	32.3	-17.7
8	10.08	32.3	-17.7
9	10.8	32.1	-17.9
10	10.92	32.1	-17.9
11	10.46	32	-18.0
12	11.57	31.7	-18.3
13	11.33	31.5	-18.5
14	7.862	31.2	-18.8
15	11.76	31.2	-18.8
16	4.831	26.8	-19.2
17	12.26	30.8	-19.2
18	8.159	30.7	-19.3
19	8.29	30.7	-19.3
20	4.582	26.6	-19.4
21	4.73	26.6	-19.4
22	7.738	30.6	-19.4
23	6.637	30.5	-19.5
24	6.708	30.5	-19.5
25	7.378	30.5	-19.5
26	7.657	30.5	-19.5
27	6.924	30.4	-19.6
28	8.073	30.4	-19.6
29	6.163	30.3	-19.7
30	7.457	30.3	-19.7
31	6.43	30.2	-19.8
32	7.262	30.2	-19.8
33	4.392	26.1	-19.9
34	6.362	30	-20.0
35	7.186	30	-20.0
36	5.939	29.9	-20.1
37	6.098	29.9	-20.1
38	4.462	25.7	-20.3
39	5.845	29.5	-20.5
40	4.057	25.4	-20.6
41	4.166	25.4	-20.6
42	4.21	25.2	-20.8
43	5.723	29	-21.0
44	3.972	24.9	-21.1
45	5.633	28.7	-21.3
46	5.457	28.4	-21.6
47	5.314	28.2	-21.8
48	5.515	28.2	-21.8
49	5.148	27.8	-22.2
50	5.094	27.6	-22.4
51	5.203	27.6	-22.4

**EMT**

**ELECTRO MAGNETIC TEST, INC.**

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650) 965-4000 Fax: (650) 965-3000

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PHOTOS ARE CONFIDENTIAL, PLEASE SEE TEST SETUP PHOTOS

**FRONT VIEW**

SLING MEDIA, INC.  
SLINGBOX PRO-HD  
MODEL: SB300-100

**CISPR 22 CLASS B - CONDUCTED EMISSIONS - 5-06-08**

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**

**EMT**

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PHOTOS ARE CONFIDENTIAL, PLEASE SEE TEST SETUP PHOTOS

**REAR VIEW**

SLING MEDIA, INC.  
SLINGBOX PRO-HD  
MODEL: SB300-100

**CISPR 22 CLASS B - CONDUCTED EMISSIONS - 5-06-08**

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**

**EMT**

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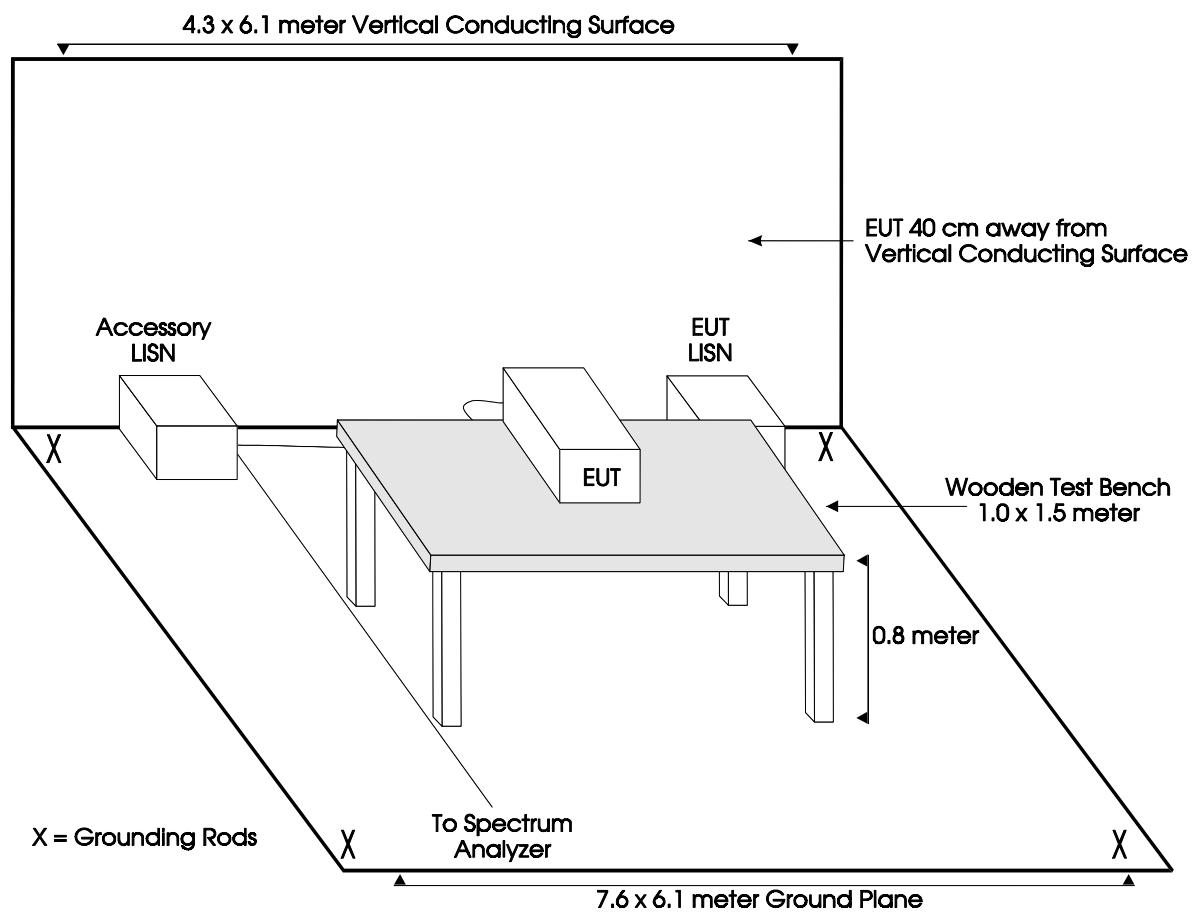
## **APPENDIX B**

### ***TEST SETUP DIAGRAMS***

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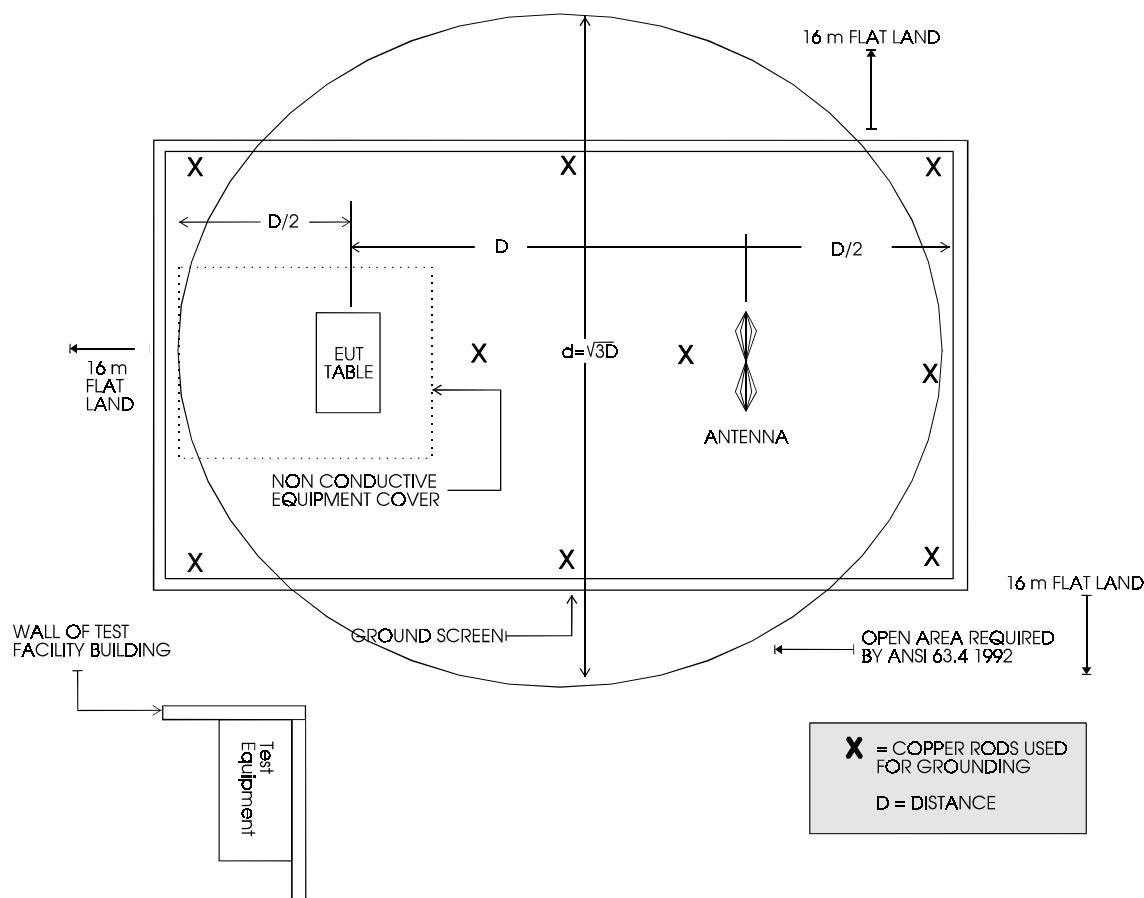
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**FIGURE 1**

CONDUCTED EMISSIONS TEST SETUP – SITE "A"

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## FIGURE 2

## PLOT MAP AND LAYOUT OF TEST SITE “A”

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## **APPENDIX C**

### ***ADDITIONAL MODELS COVERED UNDER THIS REPORT***



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## **ADDITIONAL MODELS COVERED UNDER THIS REPORT**

USED FOR THE PRIMARY TEST                    SLINGBOX PRO-HD  
    MODEL: SB300-100  
THIS MODEL WILL BE SOLD IN USA.

ALSO APPROVED UNDER THIS REPORT:

    SLINGBOX PRO-HD  
    MODEL: SB300-140

THIS MODEL WILL BE SOLD IN CANADA.

These models are identical in hardware, design, and functionality. The only difference may be language localization for the retail box and User Guide collateral. The assigning of a unique model number for each country is required per Sling's configuration control process and use in retail product distribution.