APPLICATION FOR CERTIFICATION
On Behalf of
JIADIANBAO Electrical Products (Shenzhen) Co., Ltd.

Track Lighting Rated 50W

Model Number: G90035

Prepared for : JIADIANBAO Electrical Products (Shenzhen) Co., Ltd.
Region No.117, Feng Huang Gang Village, Xin An,
Baoan County, Shenzhen City, Guangdong Province,
China 518102

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block,
Shenzhen Science & Industrial Park,
Nantou, Shenzhen, Guangdong, China

Tel: (0755) 26639496

Report Number	:	ACS-F03038
Date of Test	:	Jan. 25 ~ 26, 2003
Date of Report	:	Mar.10, 2003

TABLE OF CONTENTS

Description

Page

FCC Test Report for Declaration of Conformity

TEST REPORT DECLARATION

Applicant : JIADIANBAO Electrical Products (Shenzhen) Co., Ltd.

Manufacturer : JIADIANBAO Electrical Products (Shenzhen) Co., Ltd..

EUT Description : Track Lighting Rated 50W

(A) MODEL NO. : G90035
(B) SERIAL NO. : F2003031001
(C) POWER SUPPLY : 120V/60Hz

Test Procedure Used:

FCC RULES AND REGULATIONS PART 18 SUBPART C RF LIGHTING DEVICES CONSUMER (1998) AND MP-5/1986

The device described above is tested by Audix Technology (Shenzhen) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 18 Subpart C limits for radiation and conduction emissions. The test results are contained in this test report and Audix Technology (Shenzhen) Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT is technically compliant with FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shenzhen) Co., Ltd.

This report must not be used by the applicant to claim product endorsement by NVLAP or any agency of the U.S. Government.

Date of Test : Jan. 25 ~ 26, 2003

Prepared by : Jane Dai / Assistant

Reviewer : Lake Wang / Supervisor

Approved & Authorized Signer : For and on behalf of AUDIX TECHNOLOGY (SHENZHEN) CO.,LTD. Alex Deng / Assistant Manager (Authorized Signature)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	Track Lighting Rated 50W
Model Number	:	G90035
Applicant	:	JIADIANBAO Electrical Products (Shenzhen) Co., Ltd. Region No.117, Feng Huang Gang Village, Xin An, Baoan County, Shenzhen City, Guangdong Province, China 518102
Manufacturer	:	JIADIANBAO Electrical Products (Shenzhen) Co., Ltd. Region No.117, Feng Huang Gang Village, Xin An, Baoan County, Shenzhen City, Guangdong Province, China 518102
Power Cord	:	Unshielded, Detachable 1.3m
Date of Test	:	Jan. 25 ~ 26, 2003

1.2.Test Facility

Site Description

3m Anechoic Chamber	:	Certificated by FCC, USA Aug. 24, 2000
3m & 10m Open Site	:	Certificated by FCC, USA Jan. 29, 2001
	:	Certificated by VCCI, Japan Jan. 01, 1998
EMC Lab.		Certificated by DATech, German Feb. 02, 1999
		Certificated by NVLAP, USA NVLAP Code: 200372-0 Mar. 31, 2002
Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd.
Site Location	:	No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

1.3.Test Uncertainty

Conducted Emission Uncertainty = ± 2.66dB

Radiated Emission Uncertainty = ± 4.26dB

2. POWER LINE CONDUCTED EMISSION TEST

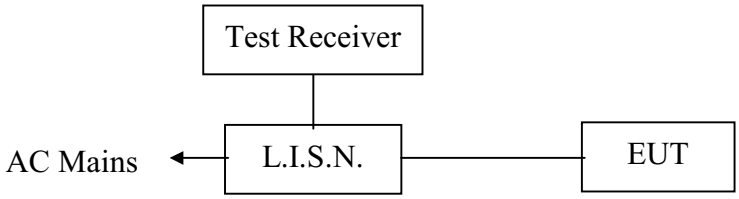
2.1.Test Equipment

The following test equipments are used during the power line conducted emission test:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Jun. 02, 02	1 Year
2.	L.I.S.N. #1	Kyoritsu	KNW-407	8-541-4	Jun. 02, 02	1 Year
3.	L.I.S.N. #2	R&S	ESH2-Z5	834066/011	Jun. 02, 02	1 Year
4.	Terminator	EMCO	50Ω	No. 1	Jun. 02, 02	1 Year
5.	Terminator	EMCO	50Ω	No. 2	Jun. 02, 02	1 Year
6.	RF Cable	FUJIKURA	RG-55/U	LISN Cable	Feb. 22, 03	1/2 Year
	Coaxial Switch	Anritsu	MP59B	M74389	Nov. 30, 02	1/2 Year
8	PC	N/A	586ATXS	N/A	N/A	N/A
9	Printer	HP	Laserjet2100	SGGJ092351	N/A	N/A

2.2.Block Diagram of Test Setup

2.2.1.Block diagram of connection between the EUT and simulators



(EUT: Track Lighting Rated 50W)

2.3.Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage
	Quasi-Peak Level dB(μV)
0.45KHz ~ 30MHz	48

Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

2.4.Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

2.4.1.Track Lighting Rated 50W (EUT)

Model Number	:	G90035
Serial Number	:	F2003031001
Manufacturer	:	JIADIANBAO Electrical Products (Shenzhen) Co., Ltd.

2.5.Operating Condition of EUT

2.5.1.Setup the EUT and simulator as shown as Section 2.2.
2.5.2.Turn on the power of all equipment.
2.5.3.Let the EUT work in test mode (ON) and test it.

2.6.Test Procedure

The EUT is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission levels. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4-1992 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS20) is set at 10KHz.

The frequency range from 450KHz to 30MHz is checked.

The test result are reported on Section 2.7, all the scanning waveforms for Conducted Emission Test are attached in Appendix I.

2.7.Power Line Conducted Emission Test Results

PASS.

The frequency range from 450KHz to 30 MHz is investigated.
All emissions not reported below are too low against the prescribed limits.

Date of Test :	Jan. 25, 2003	Temperature :	24℃
EUT :	Track Lighting Rated 50W	Humidity :	56%
Model No. :	G90035	Test Mode :	ON
Test Engineer :	Richzhy		

Frequency MHz	Reading		Limit dB(μV)
	Phase VA dB(μV)	Phase VB dB(μV)	
0.453	*	42.30	48.00
0.456	**42.50**	*	**48.00**
0.496	*	41.20	48.00
0.501	42.30	*	48.00
0.604	*	40.20	48.00
0.614	41.30	*	48.00
0.911	41.00	*	48.00
1.012	*	39.30	48.00
1.704	38.80	*	48.00
2.626	*	38.20	48.00
6.727	*	38.00	48.00
9.295	38.00	*	48.00

Remark： 1. All readings are Quasi-Peak values.
2. The worst emission is detected at 0.456MHz with corrected signal level of 42.50dB(μV) (limit is 48.00dB(μV)) when the VA side of the EUT is connected to L.I.S.N.

Reviewer : Lake Wang

3. MAGNETIC FIELD EMISSION TEST

3.1.Test Equipment

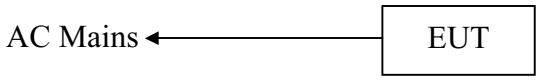
The following test equipments are used during the radiated emission test:

3.1.1.For Anechoic Chamber

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Loop Antenna	Chase	HLA6120	1062	Jun. 02, 02	1 Year
2	Test Receiver	Rohde & Schwarz	ESHS20	836600/006	Jun. 02, 02	1 Year

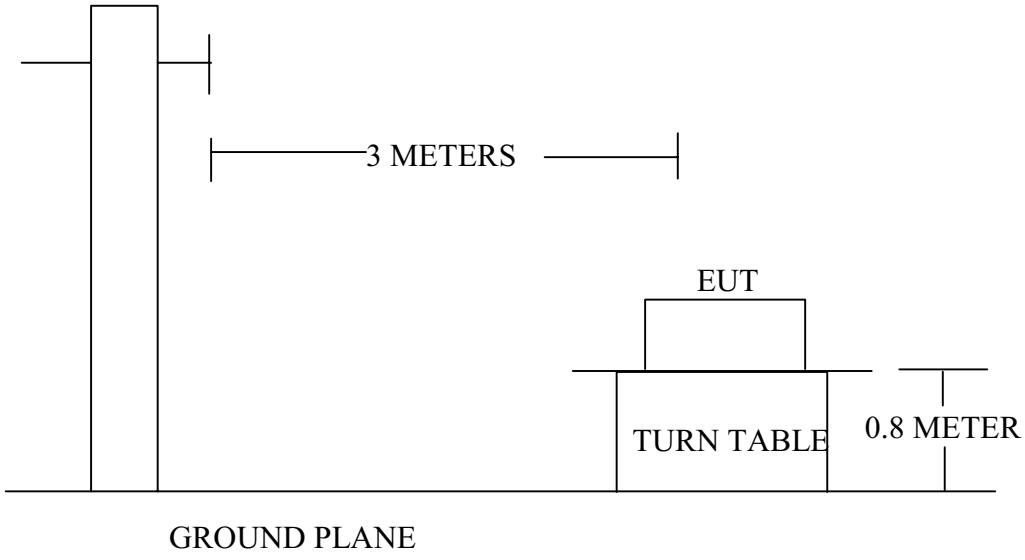
3.2.Block Diagram of Test Setup

3.2.1.Block Diagram of connection between EUT and simulators



(EUT: Track Lighting Rated 50W)

3.2.2.In Anechoic Chamber Test Setup Diagram



3.3.Magnetic Field Emission Limit

All emanations from Non-ISM devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

Frequency band MHz	Quasi-peak Electric Field Test Distance 3m dB(μV/m)
0.009 - 30	63.5

Note**:** (1) The limit shall decreasing linearly with logarithm of frequency.
(2) Distance refers to the distance in meters between the test instrument antenna and the closed point of any part of the E.U.T.

3.4.EUT Configuration on Test

The Fcc part 18 Class C regulations test method must be used to find the maximum emission during Radiated Emission test.
The configuration of EUT is same as used in Conducted Emission test. Please refer to Section 2.4.

3.5.Operating Condition of EUT

3.5.1.Setup the EUT and the simulators as shown on Section 3.2.

3.5.2.Turn on the power of all equipments.

3.5.3.Let the EUT work in test mode (ON) and test it.

3.6.Test Procedure

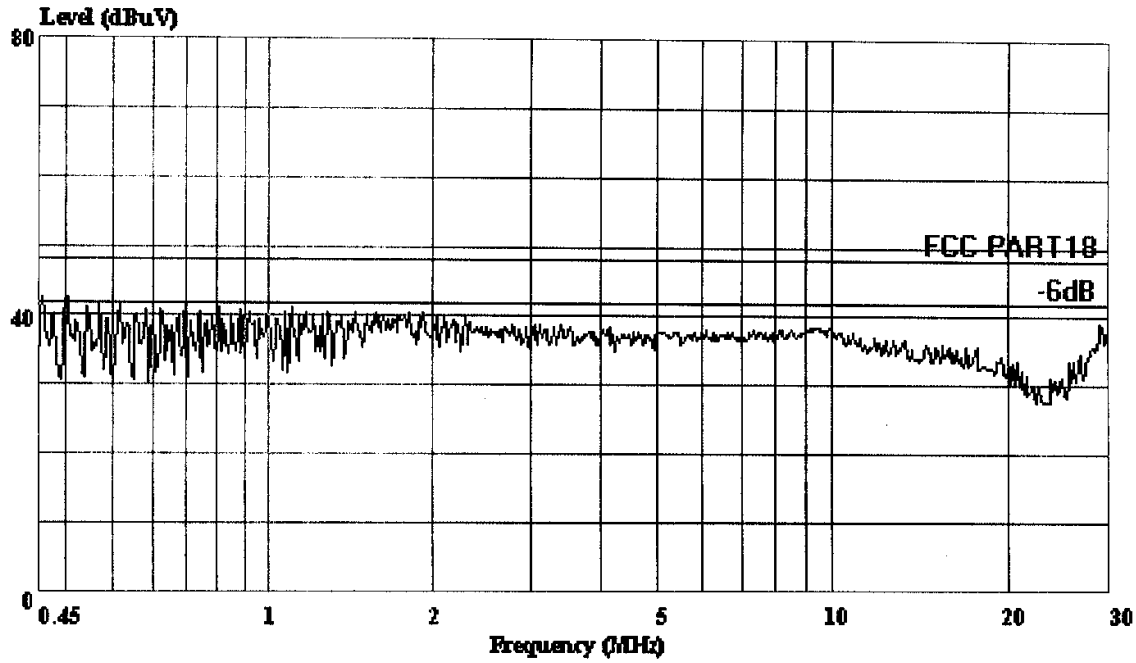
The EUT is placed on a turn table which is 0.8 meter above ground. Measurements are performed at 3m distance with a 0.6m loop antenna as described in 15.2.1 of CISPR 16-1. The antenna shall be vertically installed, with the lower edge of the loop at 1m height above the floor.

The bandwidth setting on the test receiver (R&S TEST RECEIVER ESVS20) is 10 KHz. The EUT is tested in Chamber. All the scanning waveform are attached within Appendix Ⅱ.

APPENDIX I

AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.
Shenzhen Science & Ind Park
Tel:0755-26639496
Fax:26632877

Data#: 17 File#: Jiadianbao.EMI Date: 2003-01-25 Time: 10:32:38

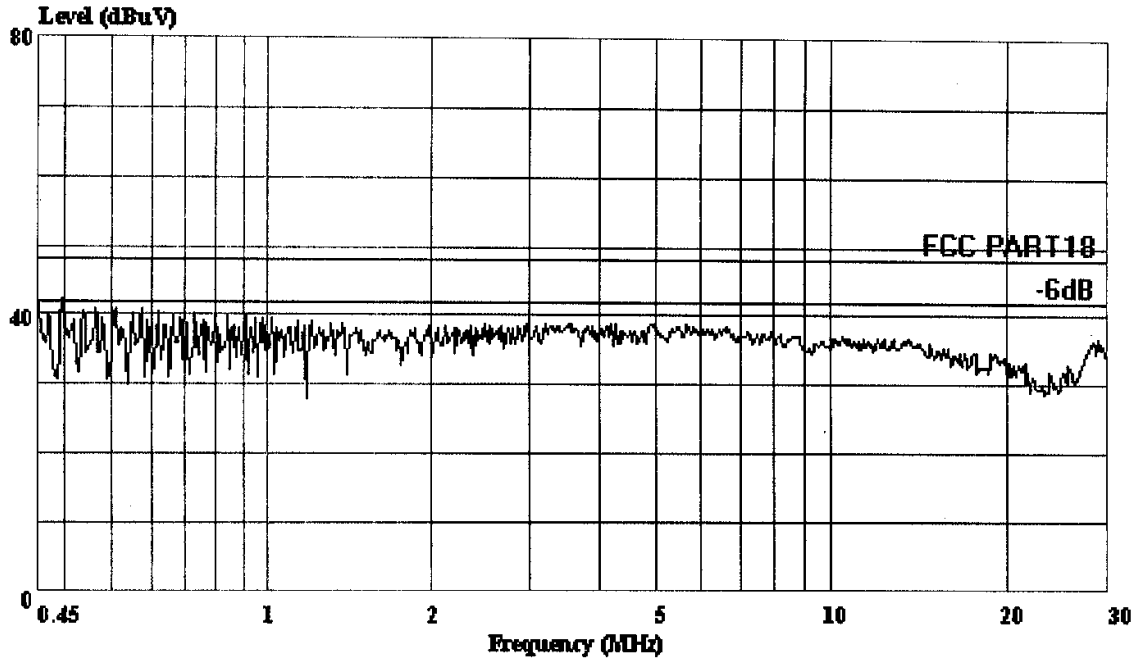


Trace: Ref Trace:

Condition: FCC PART18 VA(KNW-407)
EUT : Track Lighting Rated 50W
M/N : G90035
OP Cond : ON
Test Spec : 120V/60Hz
Test Engineer: Creed
Comment : Temp:24'C
: Humi:56%

AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.
Shenzhen Science & Ind Park
Tel:0755-26639496
Fax:26632877

Data#: 16 File#: Jiadianbao.EMI Date: 2003-01-25 Time: 10:29:15



Trace: Ref Trace:

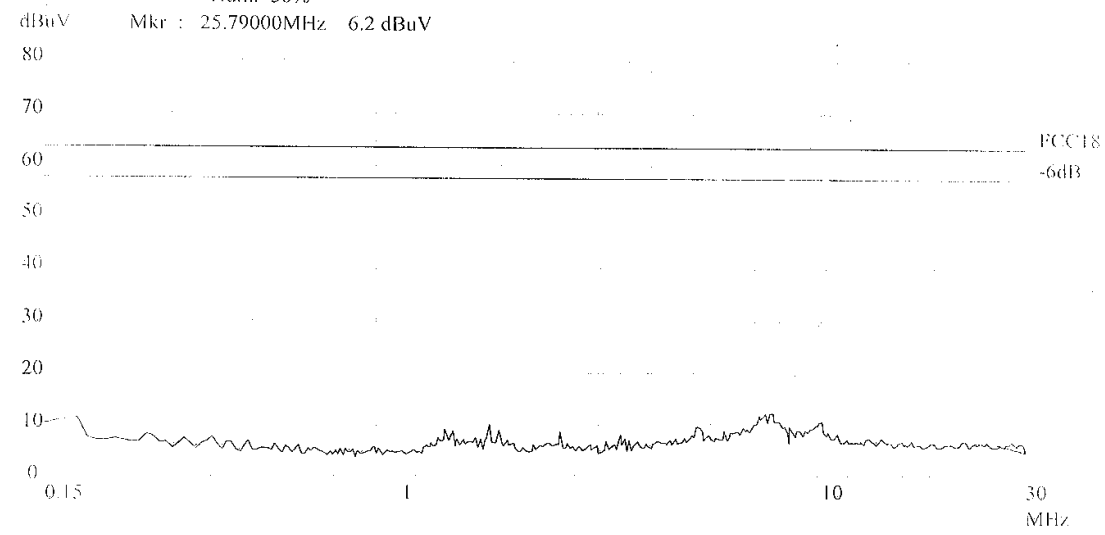
Condition: FCC PART18 VB(KNW-407)
EUT : Track Lighting Rated 50W
M/N : G90035
OP Cond : ON
Test Spec : 120V/60Hz
Test Engineer: Creed
Comment : Temp:24'C
: Humi:56%

APPENDIX II

Emission Test
FCC PART 18

26. Jan 03 10:52

EUT: Track Lighting Rated 50W M/N:G90035
Manuf: Jia Dian Bao
Op Cond: On
Operator: Richzhy
Test Spec: AC 120V/60Hz
Comment: Temp 25.6'C
Humi 56%



Emission Test
FCC PART 18

26. Jan 03 10:34

EUT: Track Lighting Rated 50W M/N:G90035
Manuf: Jia Dian Bao
Op Cond: On
Operator: Richzhy
Test Spec: AC 120V/60Hz
Comment: Temp 25.6'C
Humi 56%