



**SGS-CSTC Standards
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FEDERAL COMMUNICATIONS COMMISSION
Registration number: 282399

Report No.: GLEMO040801234TXI
Page: 1 of 12
FCC ID: SI67001-PB1-PB2

FCC TEST REPORT

Application No. : GLEMO040801234TX

Applicant : Truespeed Shenzhen Industrial Co., Ltd.

FCC ID : SI67001-PB1-PB2

Fundamental Frequency : 315.000MHz

Equipment under Test (EUT):

Name : Electric Skateboard

Model : 7001/PB-1/PB-2♣

♣

Please refer to section 3.2 of this report which indicates which model was actually tested and which models are electrically identical.

Standards : FCC PART 15, SUBPART C : 2003
Section 15.209

Date of Receipt : 18 August 2004

Date of Test : 20 August to 30 September 2004

Date of Issue : 06 October 2004

Test Result :	PASS *
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Kent Hsu
Laboratory Manager
SGS-CSTC Co., Ltd.

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf
This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the SGS PRODUCT CERTIFICATION MARK.. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.
This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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3 General Information

3.1 Client Information

Applicant: Truespeed Shenzhen Industrial Co., Ltd.
Address of Applicant: B4 House Fenghuang Industrial Park, Pinghu Town, Shenzhen

3.2 Details of E.U.T.

Product Name: Electric Skateboard (Transmitter Part)
Model: 7001/PB-1/PB-2♣
♣ Only one item was tested since the above 3 Items were electrically identical. They are different in outer, item no. and description only.
Power Supply: 9V DC (1 x '6F22' Size Battery)

3.3 Description of Support Units

The EUT was tested as an independent unit: a 315MHz radio transmitter, as a sport appliance.

3.4 Test Location

All tests were performed at:-
SGS-CSTC Standards Technical Services Ltd., Guangzhou Safety & EMC Laboratory, 1/F,
Building No. 1, Agriculture Machinery Materials Company Warehouse Ltd., Wushan Road
Shipai, Tianhe District, Guangzhou, China. P.C. 510630.
Tel: +86 20 3848 1001
Fax: +86 20 3848 1006

3.5 Other Information Requested by the Customer

None.

3.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **NVLAP – Lab Code: 200611-0**
SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0. Effective through December 31, 2004.
- **ACA**
SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.
- **VCCI**
The 3m Semi-anechoic chamber and Shielded Room (11.5m x 4m x 4m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-1599 and C-1706 respectively.
Date of Registration: February 28, 2003. Valid until May 30, 2005
- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**
Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.
- **CNAL – LAB Code: L0141**
SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAL/AC01: 2002 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of Testing Laboratories.
- **FCC – Registration No.: 282399**
SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002. With the above and NVLAP's accreditation, SGS-CSTC is an authorised test laboratory for the DoC process.
SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAL/AC01: 2002 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of Testing Laboratories.
- **Industry Canada (IC)**
The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5169.

4 Test Results

4.1 Test Instruments

Test Equipment	Manufacturer	Model	Asset No.	Cal. Due Date
3m Semi- Anechoic Chamber	Frankonia	N/A	N/A	15-02-2005
EMI Test Receiver	Rohde & Schwarz	ESCS30	100085	04-11-2004
EMI Test Software	Rohde & Schwarz	ES-K1	N/A	N/A
Coaxial cable	SGS	N/A	N/A	04-12-2004
Bilog Type Antenna	Schaffner -Chase	CBL6143	5070	17-01-2005
Horn Antenna	Rohde & Schwarz	HF906	100095	01-04-2005
Spectrum Analyzer	Rohde & Schwarz	FSP30	100324	22-12-2004
0.1-1300 MHz Pre-Amplifier	HP	8447D OPT 010	2944 A06252	30-05-2005
1-26.5 GHz Pre-Amplifier	Agilent	8449B	3008 A01649	25-01-2005

4.2 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C
Humidity: 55 % RH
Atmospheric Pressure: 1010 mbar

EUT Operation:

Test in transmitting mode.

4.3 Test Procedure & Measurement Data

4.3.1 Radiated Emissions

Test Requirement: FCC Part15 C
Test Method: Based on FCC Part15 C Section 15.209
Test Date: 18 August 2004
Measurement Distance: 3m (Semi-Anechoic Chamber)
Frequency range 30 MHz – 5.0GHz for transmitting mode.

Limit:

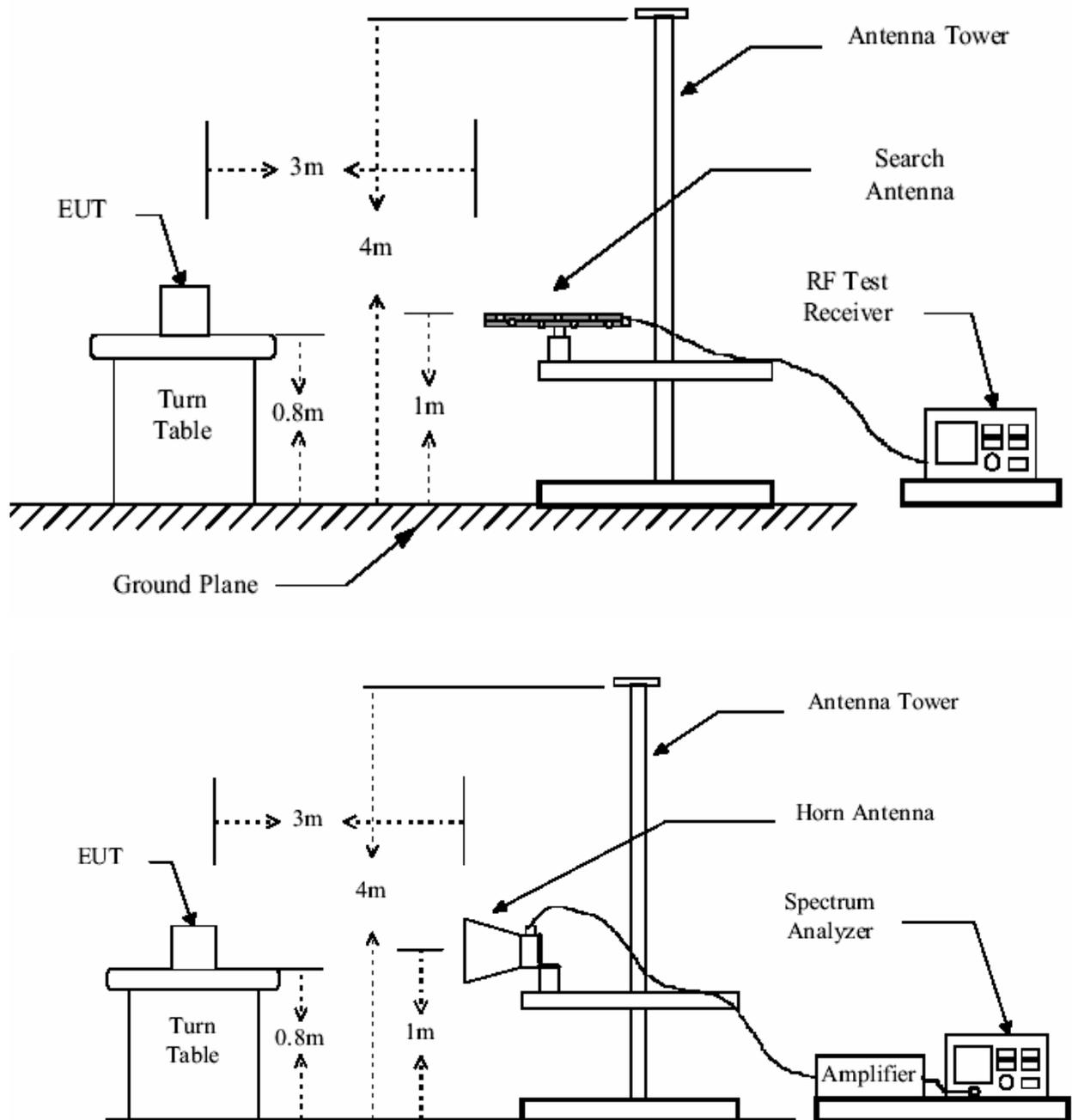
- 40.0 dB μ V/m between 30MHz & 88MHz
- 43.5 dB μ V/m between 88MHz & 216MHz
- 46.0 dB μ V/m between 216MHz & 960MHz
- 54.0 dB μ V/m zbove 960MHz

Test instrumentation resolution bandwidth 120 kHz (30 MHz - 1000 MHz)

1 MHz (1000 MHz – 25GHz)

Receive antenna scan height 1 m - 4 m, polarization Vertical/Horizontal

Test Configuration:



Test Procedure: The procedure used was ANSI Standard C63.4-2000. The receive was scanned from 30MHz to 4.0GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes.

The field strength is calculated by adding the Antenna Factor, Cable Factor & Peramplifier .
The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Peramlifer Factor

The following test results were performed on the EUT:

1. Fundamental emission

Test Frequency (MHz)	Quasi-Peak (dBuV/m)		Limits (dBuV/m)	Margin (dB)	
	Vertical	Horizontal		Vertical	Horizontal
315.000	42.9	30.1	46.0	3.1	15.9

2. Harmonics & Spurious Emissions

Test Frequency (MHz)	Quasi-Peak (dBuV/m)		Limits (dBuV/m)	Margin (dB)	
	Vertical	Horizontal		Vertical	Horizontal
630.000	38.2	33.8	46.0	7.8	12.2
945.000	29.8	34.6	46.0	16.2	11.4

Test Frequency (MHz)	Average (dBuV/m)		Limits (dBuV/m)	Margin (dB)	
	Vertical	Horizontal		Vertical	Horizontal
1260.000	30.2	31.3	54.0	23.8	22.7
1575.000	35.3	34.7	54.0	18.7	19.3
1890.000	34.7	33.9	54.0	19.3	20.1
2205.000	37.0	38.3	54.0	17.0	15.7
2520.000	37.5	35.9	54.0	16.5	18.1
2835.000	37.8	38.6	54.0	16.2	15.4
3150.000	40.2	41.4	54.0	13.8	12.6

TEST RESULTS: The unit does meet the FCC requirements.