1/F., Building No. 1 Building, Agriculture Machinery Materials Co. Wushan Road, Shipai, Tianhe District,Guangzhou, China Telephone: +86 (0) 20 3848 1001 Fax: +86 (0) 20 3848 1006 Email: sgs_internet_operations@sgs.com

FEDERAL COMMUNICATIONS COMMISSION Registration number: 282399

Report No.: GLEMO050802366RFF Page : 1 of 11 FCC ID : TB7DXTOYS61749

TEST REPORT

Application No. : GLEMO050802366RFF

Applicant : SHANTOU CHENGHAI DONGXIN PLASTIC TOYS CO., LTD.

FCC ID : TB7DXTOYS61749

Fundamental Frequency: 49.860MHz

Equipment under Test (EUT):

Name	: Toy – R/C Monster Spinning Car (49.860MHz)
Item No.	: #1602301
Customrer PO No.	: DSM6197
Standards	: FCC PART 15, SUBPART C : 2004
	Section 15.235
Date of Receipt	: 22 August 2005
Date of Test	: 25 to 26 August 2005
Date of Issue	: 29 August 2005

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Kent Hsu Laboratory Manager

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. 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.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

All test results in this report can be traceable to National or International Standards.



Report No.: GLEMO050802366RFF Page : 2 of 11 FCC ID : TB7DXTOYS61749

2 Test Summary

Test	Test Requirement	Stanadard Paragraph	Result
Radiated Emission (30MHz to 1000MHz)	FCC PART 15 :2004	Section 15.235	PASS
Occupied Bandwidth	FCC PART 15 :2004	Section 15.235	PASS



Report No.: GLEMO050802366RFF Page : 3 of 11 FCC ID : TB7DXTOYS61749

3 Contents

			Page
1	COV	/ER PAGE	1
2	TES	T SUMMARY	2
3	CON	ITENTS	
4	GEN	IERAL INFORMATION	4
	4.1 4.2 4.3 4.4 4.5 4.6	CLIENT INFORMATION DETAILS OF E.U.T. DESCRIPTION OF SUPPORT UNITS TEST LOCATION OTHER INFORMATION REQUESTED BY THE CUSTOMER TEST FACILITY	
5	TES	T RESULTS	6
	5.1 5.2 5.3 <i>5.3.1</i>	TEST INSTRUMENTS E.U.T. OPERATION TEST PROCEDURE & MEASUREMENT DATA	
	5.3.2	2 Occupied Bandwidth	



Report No.: GLEMO050802366RFF Page : 4 of 11 FCC ID : TB7DXTOYS61749

4 General Information

4.1 Client Information

Applicant:	SHANTOU CHENGHAI DONGXIN PLASTIC TOYS CO., LTD.
Address of Applicant:	Crossing, Fengxin San Rd. Laiwu Rd. Chenghai District, Shantou, Guangdong, China.

4.2 Details of E.U.T.

Product Name:	Toy – R/C Monster Spinning Car (49.860MHz)
Item:	#1602301
Power Supply:	9V DC (1 x '6F22' Battery) for Tx
Power Cord:	N/A-

4.3 Description of Support Units

The EUT was tested as an independent unit: a 49MHz radio transmitter.

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Ltd., Guangzhou 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

4.5 Other Information Requested by the Customer

None.



Report No.: GLEMO050802366RFF Page : 5 of 11 FCC ID : TB7DXTOYS61749

4.6 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, 2005.

• 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:June 01, 2005. Valid until February 22, 2008

 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.

• 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.



Report No.: GLEMO050802366RFF Page : 6 of 11 FCC ID : TB7DXTOYS61749

5 Test Results

5.1 Test Instruments

	RE in Chamber					
No:	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi- Anechoic Chamber	Frankonia	N/A	N/A	31-01-2005	30-01-2006
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	100249	20-09-2004	20-09-2005
3	EMI Test Software	Audix	E3	N/A	N/A	N/A
4	Coaxial cable	SGS	N/A	N/A	05-12-2003	04-12-2005
5	Bilog Type Antenna	Schaffner -Chase	CBL6143	5070	17-01-2005	16-01-2006
6	Horn Antenna	Rohde & Schwarz	HF906	100095	10-05-2005	09-05-2006
7	Spectrum Analyzer	Rohde & Schwarz	FSP30	100324	29-10-2004	28-10-2005
8	0.1-1300 MHz Pre-Amplifier	HP	8447D OPT 010	2944A0625 2	31-06-2005	30-06-2006
9	1-26.5 GHz Pre-Amplifier	Agilent	8449B	3008A0164 9	26-01-2004	25-01-2006
10	Active Loop Antenna	ЕМСО	6502	00042963	14-Jan-2005	14-Jan-2006

5.2 E.U.T. Operation

Input voltage:	9V DC (1 x '6F22' Battery)
Operating Environment:	
Temperature:	26.0 °C
Humidity:	58 % RH
Atmospheric Pressure:	999.1 mbar
EUT Operation:	
Test the EUT in transmi	tting mode.

5.3 Test Procedure & Measurement Data

5.3.1 Radiated Emissions

Test Requirement:	FCC Part15 C Section 15.235
Test Method:	ANSI C63.4
Test Date:	26 August 2005
Measurement Distance:	3m (Semi-Anechoic Chamber)
Requirements:	Carrier frequency will not exceed 80dBuV/m AT 3m.
	Out of band emissions shall not exceed:
	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 dBμV/m above 960MHz
Detector:	Peak Scan (120kHz resolution bandwidth)



Report No.: GLEMO050802366RFF Page : 7 of 11 FCC ID : TB7DXTOYS61749

Test Procedure: The procedure uesd was ANSI Standard C63.4-2003. The receive was scanned from 30MHz to 1000MHz.When an emission was found, the table was roated 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 worst case emissions were reported.

An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bilog antenna with 2 orthogonal polarities.

The following measurements were performed on the EUT on 26 August 2005: Test the EUT in transmitting mode.

Test Frequency	Peak ((dBµV/m) Limits Margin (dB)			
(MHz)	Vertical	Horizontal	(dBµV/m)	Vertical	Horizontal
49.860	81.71	63.85	100.0	18.29	36.15

Intentional emission

Test Frequency	Average	(dBµV/m)	Limits	Marg	in (dB)
(MHz)	Vertical	Horizontal	(dBµV/m)	Vertical	Horizontal
49.860	76.10	57.90	80.0	3.90	22.10



Report No.: GLEMO050802366RFF Page : 8 of 11 FCC ID : TB7DXTOYS61749





Report No.: GLEMO050802366RFF Page : 9 of 11 FCC ID : TB7DXTOYS61749



Report No.: GLEMO050802366RFF Page : 10 of 11 FCC ID : TB7DXTOYS61749

Remark:

According to 15.35 (b) When average radiated emission measurements are specified in the regulations, including emission measurements below 1000 MHz, there is also a imit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules, e.g., see Section 15.255.

Test Results: The unit does meet the FCC Part 15 C Section 15.235 requirements.

Report No.: GLEMO050802366RFF Page : 11 of 11 FCC ID : TB7DXTOYS61749

5.3.2 Occupied Bandwidth

Test Requirement:	FCC Part15 C Section 15.235
Test Method:	ANSI C63.4
	Operation within the band 49.82 – 49.90 MHz
Test Date:	26 August 2005
Requirements:	The field strength of any emissions appearing between the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 26 dB below the level of the unmodulated carrier or to the general limits in Section 15.209, whichever permits the higher emission levels. The field strength of any emissions removed by more than 10 kHz from the band edges shall not exceed the general radiated emission limits in Section 15.209.
Method of measurement:	The useful radiated emission from the EUT was detected by the spectrum analyer with peak detector. The vertical Scale is set to 10dB per division.

The horizontal scale is set to 10KHz per division.

The graph as below, represents the emissions take for this device.

The results: The unit does meet the FCC Part 15 C Section 15.235 requirements.