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FEDERAL COMMUNICATIONS COMMISSION
Registration number: 282399

TEST REPORT

Application No. :	GLEMR061102072RF
Applicant:	EMIRIMAGE CORPORATION
FCC ID:	UT752691613301
Fundamental Frequency :	49.860MHz
Equipment Under Test (EUT):	
Name:	R/C VEHICLE SERIES
Model No.:	TOU4400M, TOU13888, TOU13889, TOU3231, TOU8631, TOU5890A♣
♣	Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.
Standards:	FCC PART 15, SUBPART C : 2006 Section 15.235
Date of Receipt:	29 November 2006
Date of Test:	29 November and 04 December 2006
Date of Issue:	11 December 2006
Test Result :	**PASS ***

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

Authorized Signature:

Jerry Chen
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.

2 Test Summary

Test	Test Requirement	Stanadard Paragraph	Result
Radiated Emission (30MHz to 1000MHz)	FCC PART 15 :2006	Section 15.235	PASS
Occupied Bandwidth	FCC PART 15 :2006	Section 15.235	PASS

Remark:

Model No.: TOU4400M, TOU13888, TOU13889, TOU3231, TOU8631, TOU5890A

The actual tested model is TOU4400M, since the electrical circuit design, PCB layout, component used and internal wiring are identical for the above models, only the outer decoration is different.

3 Contents

4 General Information

4.1 Client Information

Applicant Name:	EMIRIMAGE CORPORATION
Applicant Address:	5269 N. W. 161 Street, Miami, FL, 33014 USA

4.2 Details of E.U.T.

Name:	R/C VEHICLE SERIES
Model No.:	TOU4400M, TOU13888, TOU13889, TOU3231, TOU8631, TOU5890A♣
Power Supply:	9V DC (1 x '6F 22' Size Battery)
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 Co., Ltd., Guangzhou EMC Laboratory, No.198 Kezhu Road, Science Town Economic& Technology Development District Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

4.5 Other Information Requested by the Customer

None.

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, 2006.
- **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.
- **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.

5 Test Results

5.1 Test Instruments

RE in Chamber/OATS						
No:	**Test Equipment**	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Date (dd-mm-yy)**	**Cal.Due date (dd-mm-yy)**
EMC0525	Compact Semi-Anechoic Chamber	ChangZhou ZhongYu	N/A	N/A	06-03-2006	06-03-2007
EMC0522	EMI Test Receiver	Rohde & Schwarz	ESIB26	100249	05-12-2006	05-12-2007
N/A	EMI Test Software	Audix	E3	N/A	N/A	N/A
EMC0514	Coaxial cable	SGS	N/A	N/A	04-12-2006	04-12-2007
EMC0524	Bi-log Type Antenna	Schaffner -Chase	CBL6112B	2966	31-10-2006	31-10-2007
EMC0519	Bilog Type Antenna	Schaffner -Chase	CBL6143	5070	31-07-2006	31-07-2007
EMC0517	Horn Antenna	Rohde & Schwarz	HF906	100095	29-07-2006	29-07-2007
EMC0040	Spectrum Analyzer	Rohde & Schwarz	FSP30	100324	05-12-2006	05-12-2007
EMC0520	0.1-1300 MHz Pre-Amplifier	HP	8447D OPT 010	2944A06252	06-03-2006	06-03-2007
EMC0521	1-26.5 GHz Pre-Amplifier	Agilent	8449B	3008A01649	06-03-2006	06-03-2007
EMC0523	Active Loop Antenna	EMCO	6502	00042963	14-01-2006	14-01-2007
EMC0530	10m Semi- Anechoic Chamber	ETS	N/A	N/A	22-08-2006	22-08-2007

5.2 E.U.T. Operation

Input voltage:	9V DC (1 x ‘6F 22’ Size Battery)
Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1011 mbar
EUT Operation:	Test the EUT in transmitting 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 section 8 & 13

Test Date: 04 December 2006

Measurement Distance: 3m (Semi-Anechoic Chamber and OATS)

Requirements: Carrier frequency will not exceed 80dBuV/m at 3m.

Out of band emissions shall not exceed:

40.0 dBμV/m between 30MHz & 88MHz

43.5 dBμV/m between 88MHz & 216MHz

46.0 dBμV/m between 216MHz & 960MHz

54.0 dBμV/m above 960MHz

Detector: Peak Scan (120kHz resolution bandwidth)

Test Procedure: The procedure used was ANSI Standard C63.4-2003. The receive was scanned from 30MHz to 1000MHz.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 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 Active loop antenna and Bilog antenna with 2 orthogonal polarities

The following measurements were performed on the EUT on 04 December 2006:
Test the EUT in transmitting mode.

Intentional emission

Test Frequency (MHz)	Peak (dBμV/m)		Limits (dBμV/m)	Margin (dB)	
	Vertical	Horizontal		Vertical	Horizontal
49.860	38.0	67.5	100.0	62.0	32.5

Test Frequency (MHz)	Average (dBμV/m)		Limits (dBμV/m)	Margin (dB)	
	Vertical	Horizontal		Vertical	Horizontal
49.860	37.5	60.5	80.0	42.5	19.5

Other emissions

Horizontal:

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 FAIL	49.860	75.51	12.75	0.70	25.30	63.66	40.00	23.66	QP
2 Max	49.860	79.36	12.75	0.70	25.30	67.51	40.00	27.51	PEAK
3 FAIL	49.860	72.31	12.75	0.70	25.30	60.46	40.00	20.46	AVERAGE
4	99.720	34.48	10.29	0.90	25.10	20.56	43.50	-22.94	QP
5	149.580	40.40	10.72	1.10	24.91	27.30	43.50	-16.20	QP
6	199.440	35.42	9.17	1.30	24.61	21.29	43.50	-22.21	QP
7	249.300	35.30	12.54	1.50	24.40	24.94	46.00	-21.06	QP
8	299.160	34.69	13.95	1.60	24.40	25.84	46.00	-20.16	QP
9	349.020	31.24	16.75	1.76	24.71	25.03	46.00	-20.97	QP
10	398.880	34.88	16.13	1.90	24.99	27.91	46.00	-18.09	QP
11	448.740	32.55	17.74	2.05	25.46	26.89	46.00	-19.11	QP
12	498.600	31.06	18.09	2.20	25.90	25.45	46.00	-20.55	QP
13	548.600	33.24	19.25	2.36	25.85	29.00	46.00	-17.00	QP

Vertical:

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	49.860	53.03	9.08	0.70	25.30	37.51	40.00	-2.49	Average
2	49.860	53.49	9.08	0.70	25.30	37.97	40.00	-2.03	Peak
3	99.720	39.03	7.21	0.90	25.10	22.05	43.50	-21.45	QP
4	149.580	31.67	9.30	1.10	24.91	17.15	43.50	-26.35	QP
5	199.440	28.97	11.04	1.30	24.61	16.69	43.50	-26.81	QP
6	249.300	41.16	11.41	1.50	24.40	29.66	46.00	-16.34	QP
7	299.160	38.89	13.70	1.60	24.40	29.79	46.00	-16.21	QP
8	349.020	35.53	15.30	1.76	24.71	27.87	46.00	-18.13	QP
9	398.880	44.67	16.24	1.90	24.99	37.81	46.00	-8.19	QP
10	448.740	36.54	17.68	2.05	25.46	30.82	46.00	-15.18	QP
11	498.600	29.34	18.96	2.20	25.90	24.60	46.00	-21.40	QP
12	548.600	27.50	19.96	2.36	25.85	23.96	46.00	-22.04	QP

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 limit 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.

5.3.2 Occupied Bandwidth

Test Requirement: FCC Part15 C Section 15.235

Test Method: ANSI C63.4 section 13 & FCC Part 2.1049

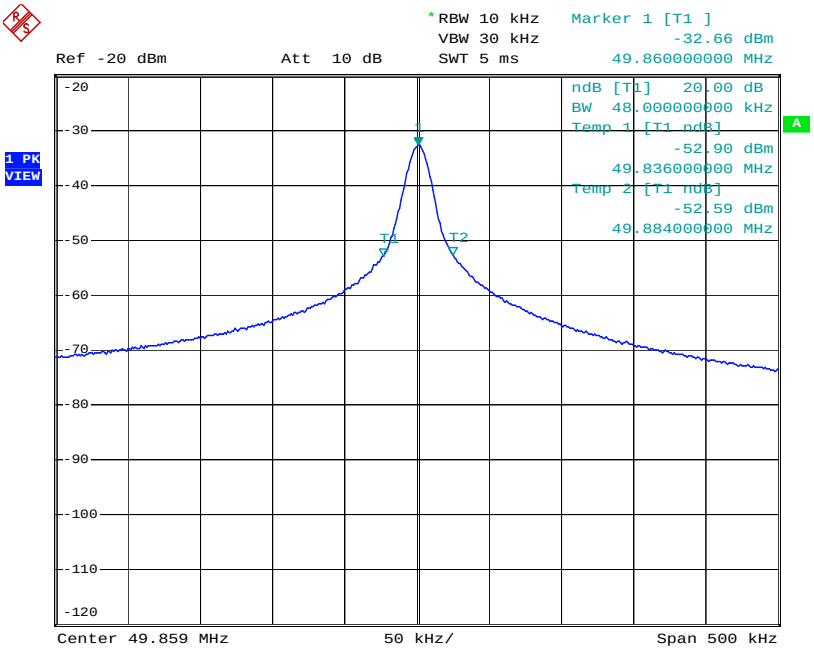
Operation within the band 49.82 – 49.90 MHz

Test Date: 29 November 2006

Requirements: Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the 20 dB bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

Method of measurement: The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector. The vertical Scale is set to 10dB per division. The horizontal scale is set to 5KHz per division.

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



Date: 29.NOV.2006 15:59:34

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