



TEST REPORT

Report No. : AF009154-001 Date : 2005 April 29
Application No. : LF205025(3)
Applicant : Kid Galaxy Inc.
One Sundial Ave,
Suite 310 Manchester,
NH 03103, U.S.A.
Sample Description : One(1) submitted sample stated to be DRV - Truck & ATV
of Model No. 10117
Rating : 4 x 1.5V AA size batteries
No. of submitted sample : Two (2) piece(s)***
Date Received : 2005 April 18
Test Period : 2005 April 18 – 2005 April 27
Test Requested : FCC Part 15 Certification
Test Method : FCC Rules and Regulations Part 15 – July 2004
ANSI C63.4 – 2003
Test Result : See attached sheet(s) from page 2 to 11.
Conclusion : The submitted sample was found to comply with requirement of FCC Part 15
Subpart B.

For and on behalf of
CMA Testing and Certification Laboratories

Authorized Signature : _____

Daimy Chui
EMC Engineer - EL. Division

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FCC ID : QEATRUCKATV9L

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1 General Information

1.1 General Description

The equipment under test (EUT) is a superregenerative receiver for DRV – Truck & ATV operating at 49.860MHz which is controlled by a LRC circuit. The EUT is powered by 4 x 1.5V AA size batteries. When it received either one of forward, backward, left turn and right turn signal from the transmitter, it will move forward, backward, left turn and right turn accordingly.

The brief circuit description is listed as follows :

- C8 and associated circuit act as RF receiver.
- U1 and associated circuit act as control signal decoder.
- Q1 – Q12 and associated circuit act as motor driving.



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1.2 Location of the test site

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2003. A Semi-Anechoic Chamber Testing Site is set up for investigation and located at :

Ground Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
Fo Tan, Shatin,
New Territories,
Hong Kong.

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 – 2003. A shielded room is located at :

Ground Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
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New Territories,
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1.3 List of measuring equipment

Equipment	Manufacturer	Model No.	Serial No.	Calibration Certification No.
EMI Test Receiver	R&S	ESCS30	100001	S43284
Broadband Antenna	Schaffner	CBL6112B	2692	CA3025
Signal Generator	IFR	2023B	202302/938	S43098
LISN	R&S	ESH3-Z5	100038	S43377
LISN	R&S	ESH3-Z5	100010	S43101
Pulse Limiter	R&S	ESH3-Z2	100001	S43325
Biconical Antenna	R&S	HK116	837414/004	2GB05000535-001



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2 Description of the radiated emission test

2.1 Test Procedure

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2001.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

A signal generator was used to radiate an unmodulated continuous wave (CW) signal to the EUT (superregenerative receiver) at its operating frequency in order to “cohere” the characteristic broadband emissions from the receiver.

2.2 Test Result

The emissions meeting the requirement of section 15.109 are based on measurements employing the CISPR quasipeak detector.

It was found that the EUT meet the FCC requirement.



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2.3 Radiated Emission Measurement Data

**Radiated emission
pursuant to
the requirement of FCC Part 15 subpart B**

Frequency (MHz)	Polarity (H/V)	Reading at 3m (dB μ V/m)	Antenna and Cable factor (dB)	Field Strength (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
49.438	V	15.0	10.3	25.3	40.0	-14.7
49.646	V	15.5	10.3	25.8	40.0	-14.2
50.083	V	16.4	8.1	24.5	40.0	-15.5
50.304	V	14.9	8.1	23.0	40.0	-17.0
50.728	V	15.0	8.1	23.1	40.0	-16.9
98.690	V	13.6	9.2	22.8	43.5	-20.7
99.352	V	13.4	9.2	22.6	43.5	-20.9
100.570	V	12.0	11.0	23.0	43.5	-20.5
150.872	V	11.9	11.9	23.8	43.5	-19.7
151.440	V	12.1	11.9	24.0	43.5	-19.5



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3 Description of the Line-conducted Test

3.1 Test Procedure

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 – 2001. The EUT was setup as described in the procedures, and both lines were measured.

3.2 Test Result

No measurement is required as the EUT is a battery-operated product.

3.3 Graph and Table of Conducted Emission Measurement Data

Not Applicable



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4 Photograph

4.1 Photographs of the Test Setup for Radiated Emission and Conduction Emission

For electronic filing, the photos are saved with filename TSup1.jpg to TSup2.jpg

4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename ExPho1.jpg to ExPho2.jpg and InPho1.jpg to InPho4.jpg.



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5 Supplementary document

The following document were submitted by applicant, and for electronic filing, the document are saved with the following filenames:

Document	Filename
ID Label/Location	LabelSmp.jpg
Block Diagram	BlkDia.pdf
Schematic Diagram	Schem.pdf
Users Manual	UserMan.pdf
Operational Description	OpDes.pdf

5.1 Bandwidth

N/A

5.2 Duty Cycle

N/A



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6 Appendices

A1	Photos of the set-up of Radiated Emissions	1 page
A2	Photos of External Configurations	1 page
A3	Photos of Internal Configurations	2 pages
A4	ID Label/Location	1 page
A5	Block Diagram	1 page
A6	Schematics Diagram	1 page
A7	User Manual	1 page
A8	Operation Description	1 page

***** End of Report *****