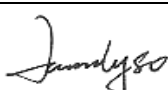




Gakkiku Technology Company
Flat B, 5/F., Selwyn Factory Building,
No. 404 Kwun Tong Road,
Kwun Tong, Kowloon,
Hong Kong
Tel: (852) 8113 2281
Fax: (852) 2797 0192
E-mail: info@gakkiku.com

Test Report

Applicant	Cache Sales, LLC
Address	1189 W. 1700 N., Logan, UT, 84321, U.S.A.
FCC ID Number	FCC ID: ZEZ1613R49
Brand Name	None
Model Number(s)	1613, 1625
Product Description	49.82-49.90 MHz Wireless Remote Control Toy - RX
Operating Frequency	49.860 MHz
Rules/Standards	Part 15.109 of the FCC Rules, RSS-310 Issue 3 and RSS-Gen Issue 3 of the Industry Canada
Received Date	22nd December, 2011
Tested Date	27th December, 2011
Approved by	Dick Chan (Director of Gakkiku)
Tested by	Lahm Peng (Engineer of SEM.Test)
Signed by	 Jandy So (Manager of SEM.Test)
Report Number	GKK201112220B
Test Results	<input checked="" type="checkbox"/> PASSED <input type="checkbox"/> FAILED

GENERAL

The report is written by Gakkiku Technology Company. The tested device complies with the general approval requirements of the FCC Rules and the Industry Canada as identified in this test report.

TEST LOCATION

The tested device was tested at the test site of the SEM.Test Compliance Service Co., Ltd., 3/F, Jinbao Commerce Building, Xin'an Fanshen Road, Bao'an District, Shenzhen, 518101, Guangdong, China. The FCC Recognized 2.948 Listed Test Firm Registration Number is 994117. The Industry Canada IC OATS Filing Number/Assigned Code is 7673A.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Cache Sales, LLC
Address of applicant: 1189 W. 1700 N.,
Logan, UT, 84321, U.S.A.

Manufacturer: Cache Sales, LLC
Address of manufacturer: 1189 W. 1700 N.,
Logan, UT, 84321, U.S.A.

General Description of E.U.T

Items	Description
EUT Description:	49.82-49.90 MHz Wireless Remote Control Toy - RX
Trade Name:	None
Model No.:	1613, 1625
Rated Voltage:	DC 9.6V RECHARGEABLE BATTERY
Rated Current:	/
For more information refer to the circuit diagram form and the user's manual.	

The test data is gathered from a production sample, provided by the manufacturer.

1.2 Test Standards

The following report is prepared on behalf of the Cache Sales, LLC in accordance with Part 2 Subpart J and Part 15 Subparts B of the Federal Communication Commissions Rules.

The objective is to determine compliance with Part 15.109 of the FCC Rules and RSS-310 Issue 3 & RSS-Gen Issue 3 of the Industry Canada

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which results in lowering the emission/immunity, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2009, American National Standard Institute for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

The equipment under test (EUT) was configured to measure its highest possible susceptibility against the tested phenomena. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 EUT Exercise Software

The EUT exercise program used during the testing was designed to exercise the system components. The test software is started while the whole system is on.

1.5 Accessories Equipment List and Details

Description	Manufacturer	Model	Serial Number
/	/	/	/

1.6 EUT Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
/	/	/	/

2. SUMMARY OF TEST RESULTS

Description of Test	Result
Part 15.107(a) Conducted Emission	N/A
Part 15.109(a) Radiated Emission	Compliant

3. Part 15.109(a) & RSS-310 Issue 3 §3.8 - RADIATED EMISSION

3.1 Measurement Uncertainty

Base on NIS 81, the Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any radiation emissions measurement is ± 5.10 dB.

3.2 Test Equipment List and Details

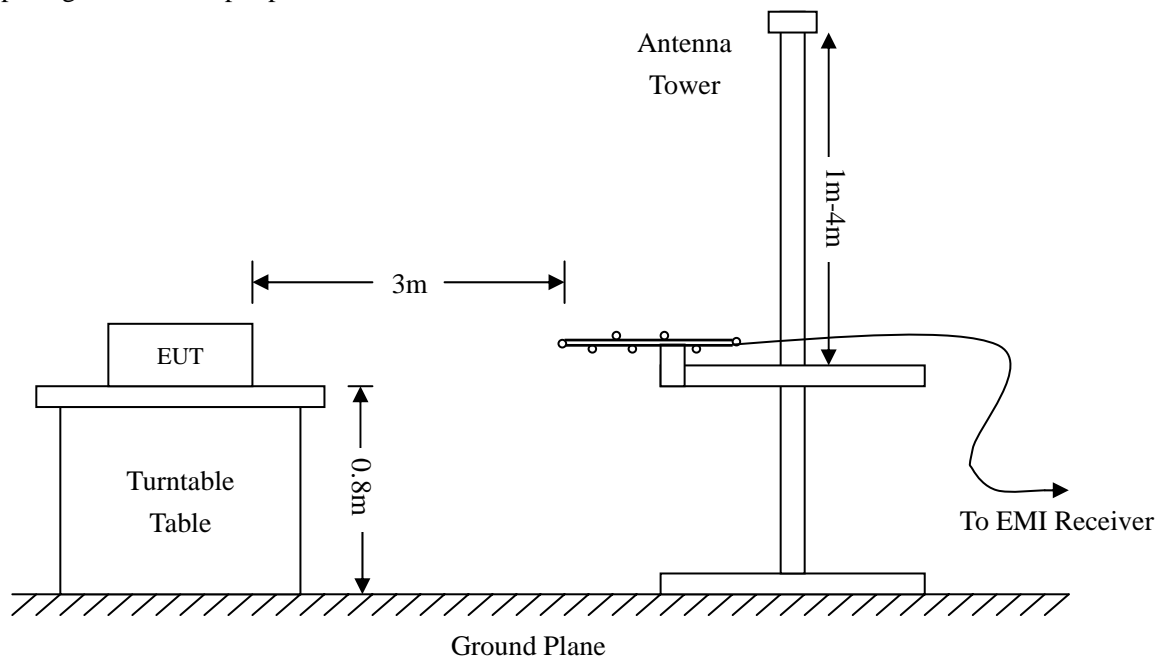
Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2011-12-20	2012-12-19
EMI Test Receiver	R&S	ESVB	825471/005	2011-12-20	2012-12-19
Positioning Controller	C&C	CC-C-1F	N/A	2011-12-20	2012-12-19
RF Switch	EM	EMSW18	SW060023	2011-12-20	2012-12-19
Pre-amplifier	Agilent	8447F	3113A06717	2011-12-20	2012-12-19
Pre-amplifier	Compliance Direction	PAP-0118	24002	2011-12-20	2012-12-19
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2011-01-09	2012-01-08
Horn Antenna	ETS	3117	00086197	2011-01-09	2012-01-08

3.3 Test Procedure

The setup of EUT is according with per ANSI C63.4-2009 measurement procedure. The specification used was with the limits of Part 15.205 & 15.109 of the FCC Rules.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.



3.4 Test Receiver Setup

During the radiated emission test, the test receiver was set with the following configurations:

Start Frequency 30 MHz
Stop Frequency..... 1000 MHz
Sweep Speed Auto
IF Bandwidth..... 100 kHz
Quasi-Peak Adapter Bandwidth 120 kHz
Quasi-Peak Adapter Mode Normal

3.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} - \text{Corr. Factor}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit for Part 15.109 of the FCC Rules. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit of Part 15.109 (RSS-310 Issue 3)}$$

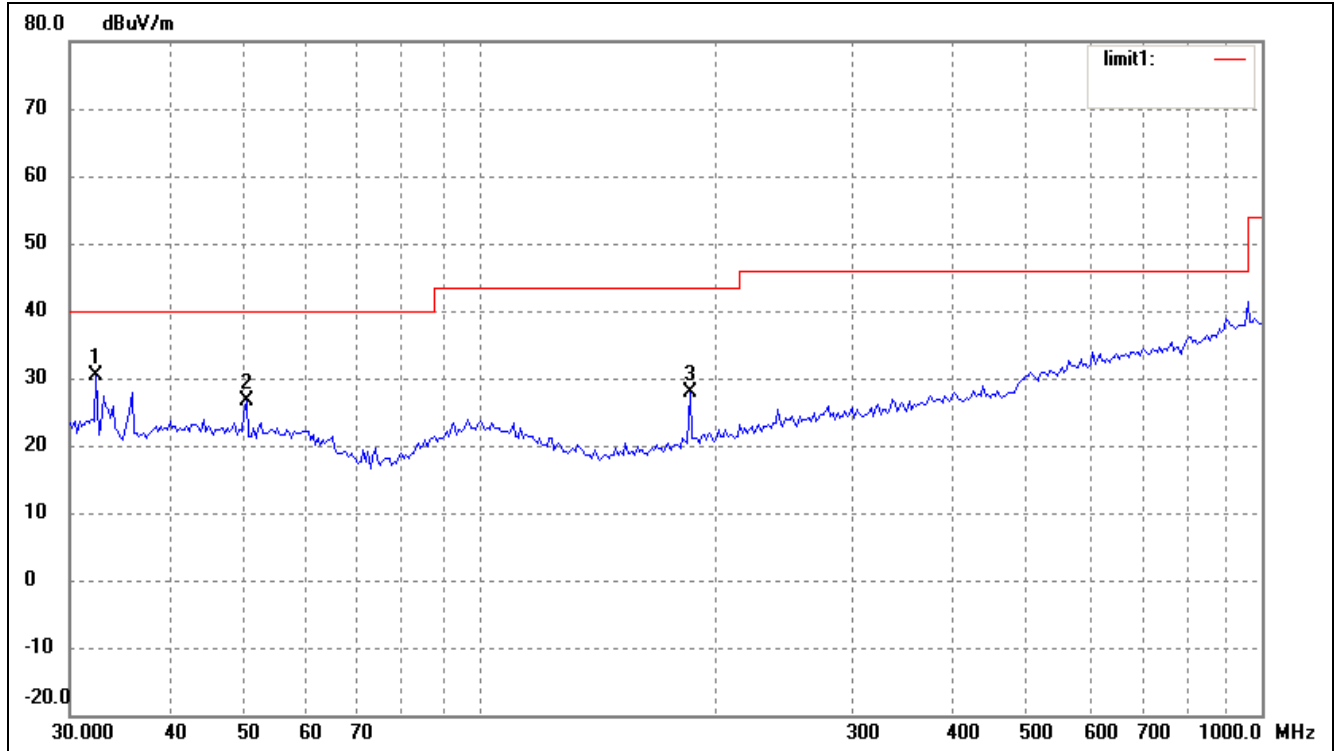
3.6 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

3.7 Summary of Test Results/Plots

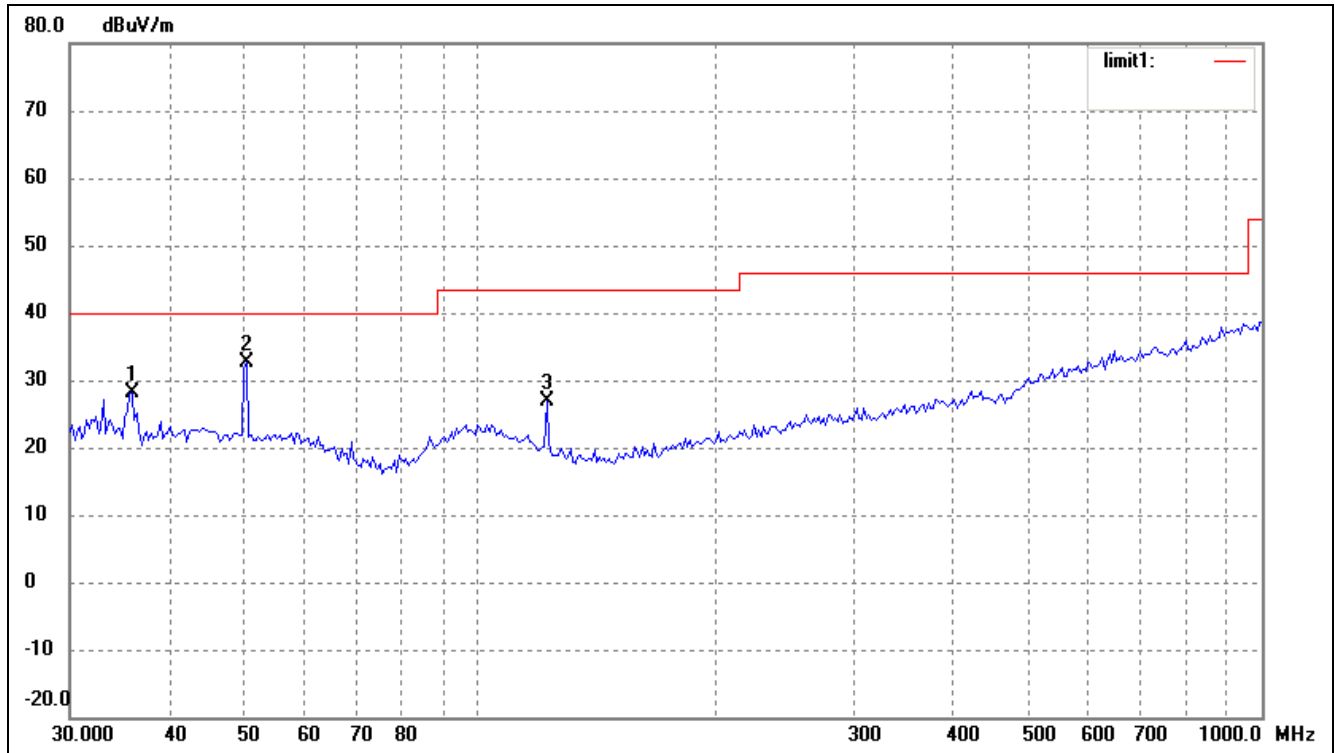
According to the data, the EUT is complied with the standards under Part 15.109 of the FCC Rules, and had the worst margin of:

-7.28 dB μ V at 50.4089 MHz in the Vertical polarization, 30 MHz to 1 GHz, 3 Meters

Plot of Radiated Emissions Test Data*Radiated Disturbance**EUT: 49.82-49.90 MHz Wireless Remote Control Toy - RX**Model: 1613, 1625**Operating Condition: Receiving**Test Specification: Horizontal & Vertical**Comment: DC 9.6V**Horizontal:*

No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	32.4059	23.55	6.77	30.32	40.00	-9.68	215	100	Peak
2	50.4089	18.78	7.95	26.73	40.00	-13.27	35	100	Peak
3	185.7882	21.72	6.16	27.88	43.50	-15.62	57	100	Peak

Vertical:



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	36.0007	21.15	7.05	28.20	40.00	-11.80	122	100	Peak
2	50.4089	24.77	7.95	32.72	40.00	-7.28	78	100	Peak
3	121.9755	21.09	5.68	26.77	43.50	-16.73	36	100	Peak

***** END OF REPORT *****