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FEDERAL COMMUNICATIONS COMMISSION
Report No.: SZEMO09050213401

Registration number: 282399

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FCC ID : VLE15052-PPL-B-2

TEST REPORT

Application No.: SZEMO090502134TX

Applicant: Asian Express Holdings Ltd

Applicant Address: 4F, -4, No.669, Jingping Rd, Zhonghe City, Taipei County 235, Taiwan

FCC ID: VLE15052-PPL-B-2

Fundamental Frequency: 49.860MHz

Equipment Under Test (EUT):

Name: Stunt Truck

Model No.: 15052-PPL-B-ASM

Standards: FCC PART 15, SUBPART C: 2008 Section 15.235

Date of Receipt: 06 May 2009

Date of Test: 06 to 08 May 2009

Date of Issue: 08 May 2009

Test Result : PASS *

Authorized Signature:

Robinson Lo Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. 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.

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



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2 Test Summary

Test	Test Requirement	Standard Paragraph	Result	
Radiated Emission (30MHz to 1000MHz)	FCC PART 15 :2008	Section 15.235	PASS	
Occupied Bandwidth	FCC PART 15 :2008	Section 15.235	PASS	

Tx: In this whole report Tx (or tx) means Transmitter.
 Rx: In this whole report Rx (or rx) means Receiver.
 RF: In this whole report RF means Radiated Frequency.



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4 General Information

4.1 Details of E.U.T

Name: Stunt Truck

Model No.: 15052-PPL-B-ASM

Power Supply: 9.0V(1*9.0V"6F22"Size Battery)

Power Cord: N/A-

4.2 Description of Support Units

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

4.3 Test Location

All tests were performed at:

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, District Shenzhen, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.4 Other Information Requested by the Customer

None.



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4.5 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.

ACMA

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.

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.

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

VCCI

The 3m Semi-anechoic chamber and Shielded Room $(7.5m \times 4.0m \times 3.0m)$ of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197 and C-2383 respectively.

Date of Registration: September 29, 2008. Valid until September 28, 2011.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen 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 556682, June 27, 2008.

• 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.: 4620C-1.

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5 Test Results

5.1 Test Instruments

	RE in Chamber									
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)				
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	16-06-2007	15-06-2009				
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	12-12-2008	11-12-2009				
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A				
4	Coaxial cable	SGS	N/A	SEL0028	18-06-2008	17-06-2009				
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0014	12-08-2008	11-08-2009				
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	18-06-2008	17-06-2009				
7	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0005	12-08-2008	11-08-2009				
8	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	12-08-2008	11-08-2009				
9	Pre-amplifier (1-18GHz)	Rohde & Schwarz	AFS42-00101 800-25-S-42	SEL0081	18-06-2008	17-06-2009				
10	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	SEL0080	18-06-2008	17-06-2009				
11	Band filter	Amindeon	82346	SEL0094	18-06-2008	17-06-2009				
12	Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	15-06-2008	14-06-2009				



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5.2 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C
Humidity: 52 % RH
Atmospheric Pressure: 1010 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

Measurement Distance: 3m (Semi-Anechoic Chamber)

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

Out of band emissions shall not exceed: $40.0~dB\mu V/m$ between 30MHz~&~88MHz $43.5~dB\mu V/m$ between 88MHz~&~216MHz $46.0~dB\mu V/m$ between 216MHz~&~960MHz

54.0 dBµV/m above 960MHz

Detector: 30MHz to 1000MHz RBW=100KHz VBW=300KHz

Above 1000MHz RBW=1MHz VBW=3MHz

Test Procedure: 1. The EUT is placed on a turntable, which is 0.8m above ground

plane.

2. The turntable shall be rotated for 360 degrees to determine the

position of maximum emission level.

3. EUT is set 3m away from the receiving antenna, which is varied

from 1m to 4m to find out the highest emissions.

4. Maximum procedure was performed on the six highest

emissions to ensure EUT compliance.

5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

6. Repeat above procedures until the measurements for all

frequencies are complete.

7. The radiation measurements are performed in X, Y, Z axis

positioning. Only the worst case is shown in the report.

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Intentional emission

Test Frequency	Peak (d	Peak (dBμV/m)		Margin (dB)	
(MHz)	Vertical	Horizontal	(dBμV/m)	Vertical	Horizontal
49.860	76.96	65.32	100.0	23.04	34.68

Test Frequency (MHz)	Average (dBμV/m)		Limits	Margin (dB)	
	Vertical	Horizontal	(dBμV/m)	Vertical	Horizontal
49.860	72.10	61.16	80.0	7.90	18.84

Other emissions

Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Quasi- Peak Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
98.125	1.18	9.03	27.89	55.55	37.87	43.50	-5.63
147.850	1.32	8.81	27.47	57.11	39.77	43.50	-3.73
347.725	2.05	15.37	27.07	45.31	35.66	46.00	-10.34
397.450	2.20	16.27	27.39	48.05	39.13	46.00	-6.87
448.150	2.40	16.84	27.56	48.06	39.74	46.00	-6.26

Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Quasi- Peak Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
98.125	1.18	9.03	27.89	54.42	36.74	43.50	-6.76
147.850	1.32	8.81	27.47	56.18	38.84	43.50	-4.66
298.000	1.89	13.81	26.72	51.02	40.00	46.00	-6.00
347.725	2.05	15.37	27.07	50.43	40.78	46.00	-5.22
397.450	2.20	16.27	27.39	49.37	40.45	46.00	-5.55

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.

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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

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 un-modulated 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

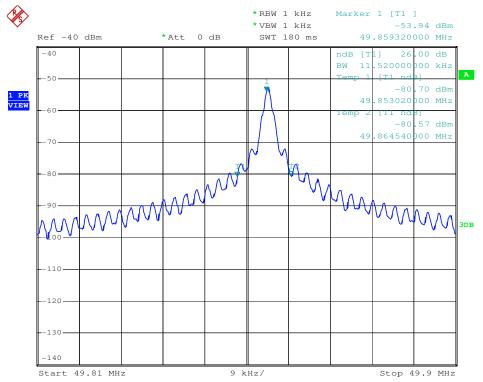
Section 15.209

Method of The useful radiated emission from the EUT was detected by the

measurement: spectrum analyzer with peak detector. The vertical Scale is set to -10dB

per division. The horizontal scale is set to 9KHz per division.

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



Date: 8.MAY.2009 07:46:46

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

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