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FEDERAL COMMUNICATIONS COMMISSION

Registration number: 556682

Report No.: SZEMO080501826ETF(I)

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FCC ID : VVAAD296701

TEST REPORT

Application No. : SZEMO080501826ETF(SGS SZ NO.: SZTYR080501682/ EL) **Applicant** : GUANGDONG ALPHA ANIMATION AND CULTURE CO., LTD.

(Former Name: GUANG DONG AULDEY TOY INDUSTRY CO., LTD.)

Manufacturer : AULDEY

FCC ID : VVAAD296701 Fundamental Frequency : 49.860MHz

Equipment under Test (EUT):

EUT Name : CITROEN C4 Audi A4 DTM Item No. : LC296700 LC296710.

Please refer to section 2 of this report which indicates which item was actually tested and

which were electrically identical.

Labelled Age Grading : AGE 6+ Country of Origin : CHINA

Standards : FCC PART 15, SUBPART C : 2007

Section 15.235

Date of Receipt : 09 May 2008

Date of Test : 09 to 19 May 2008

Date of Issue : 19 May 2008

Test Result : PASS *

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

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

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.

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2 Test Summary

Test	Test Requirement	Stanadard Paragraph	Result
Radiated Emission (30MHz to 1000MHz)	FCC PART 15 :2007	Section 15.235	PASS*
Occupied Bandwidth	FCC PART 15 :2007	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.

Remark:

This report was an additional report copied from the report SZEMO071002833RFF(I), just changing the Item No., Photos and EUT Name. Since the electrical circuit design, layout, components used and internal wiring for the Items "LC296680, LC296690, LC296720, LC296740, LC2296660, LC296670" in the report SZEMO071002833RFF(I) were exactly the same as the Items "LC296700 LC296710" in this report.

^{*} The EUT passed the RE test after retest.



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4 General Information

4.1 Client Information

Applicant: GUANGDONG ALPHA ANIMATION AND CULTURE CO., LTD.

(Former Name: GUANG DONG AULDEY TOY INDUSTRY CO., LTD.)

Address of Applicant: Auldey Ind Area, Wenguan Rd., (Central), Chenghai, Shantou, Guangdong,

China

4.2 Details of E.U.T.

EUT Name: CITROEN C4 Audi A4 DTM

Item No.: LC296700 LC296710
Serial No.: Not supplied by client

Power Supply: 3.0V DC (2 * 1.5V 'AA' Size Batteries) for Tx

3.0V DC (2 * 1.5V 'AA' Size Batteries) for Rx.

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 8215 5555 Fax: +86 20 8207 5059

4.5 Other Information Requested by the Customer

None.



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5 Test Results

5.1 Test Instruments

I	R&TTE RE in Chamber										
Item	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	15-06-2008					
2			ESIB26	SEL0023	12-12-2007	11-12-2008					
3			E3	SEL0050	N/A	N/A					
4	Coaxial cable	SGS	N/A	SEL0028	01-06-2007	31-05-2008					
5	Coaxial cable	cable SGS		SEL0027	20-10-2007	19-10-2008					
6	BiConiLog Antenna (26-3000MHz)	I FIS-I INDGBEN		SEL0014	12-08-2007	11-08-2008					
7	7 EINI 100(110001101 TIONGO & COMMAIL		ESCI	SEL0022	27-06-2007	26-06-2008					
8			ZN30900A	SEL0097	15-06-2007	14-06-2008					

5.2 E.U.T. Operation

Input voltage: 3.0V DC (2 * 1.5V 'AA' Size Batteries) for the transmitter.

Operating Environment:

Temperature: 23.0 °C
Humidity: 52 % RH
Atmospheric Pressure: 1015 mbar
Modulation signal: AM

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 C63.4-2003

Test Date: 17 October 2007(Initial Test)

08 November 2007(Retest)

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

 $54.0 \text{ dB}\mu\text{V/m}$ above 960MHz

Detector: 9kHz to 30MHz RBW=9KHz VBW=30KHz

30MHz to 1000MHz RBW=120KHz VBW=300KHz



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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.

The following measurements were performed on the modified modified EUT on 08 November 2007: Test the EUT in transmitting mode.

Intentional emission

Te	Test Frequency	Peak (Peak (dBμV/m) Limits		Margin (dB)		
	(MHz)	Vertical	Horizontal	(dBμV/m)	Vertical	Horizontal	
	49.860	80.24	65.95	100.0	19.76	34.05	

Test Frequency	Average (dBμV/m)		Limits	Margin (dB)		
(MHz)	Vertical	Horizontal	(dBμV/m)	Vertical	Horizontal	
49.860	75.24	62.55	80.0	4.76	17.45	



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Other emissions

Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Qasi- Peak Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
98.125	1.18	9.03	27.89	54.92	37.24	43.50	-6.26
147.850	1.32	8.81	27.47	47.30	29.96	43.50	-13.54
198.550	1.40	10.19	27.16	49.24	33.67	43.50	-9.83
229.750	1.57	11.64	27.00	45.80	32.01	46.00	-13.99
249.250	1.67	12.27	26.92	51.20	38.22	46.00	-7.78
297.025	1.88	13.76	26.73	48.73	37.64	46.00	-8.36

Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Qasi- Peak Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
98.125	1.18	9.03	27.89	33.37	15.69	43.50	-27.81
147.850	1.32	8.81	27.47	37.57	20.23	43.50	-23.27
198.550	1.40	10.19	27.16	39.49	23.92	43.50	-19.58
249.250	1.67	12.27	26.92	40.50	27.52	46.00	-18.48
297.025	1.88	13.76	26.73	44.27	33.18	46.00	-12.82
347.725	2.05	15.37	27.07	36.16	26.51	46.00	-19.49

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.



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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

Test Date: 16 October 2007

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

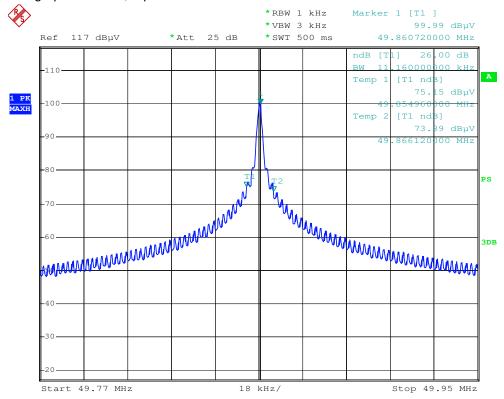
Section 15.209.

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 -10 dB per division.

The horizontal scale is set to 18KHz per division.

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



Ν

Date: 16.OCT.2007 10:12:19

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