RF EXPOSURE REPORT



Report No.: 15050009-FCC-H

Applicant	Collage Investments LLC.			
Product Name	Mobile Phone			
Model No.	LK700	LK700		
Serial No.	N/A			
Test Standard	FCC 2.109	3		
Test Date	May 28 to	May 28 to June 02, 2015		
Issue Date	June 03, 2015			
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did not comply with the specification				
Wiky. Jam		Chris You		
Wiky.Jam Test Engineer		Chris You Checked By		

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Test result presented in this test report is applicable to the tested sample only

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety



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1. Report Revision History

Report No.	Report Version	Description	Issue Date
15050009-FCC-H	NONE	Original	June 03, 2015

2. Customer information

Applicant Name	Collage Investments LLC.	
Applicant Add	11437 NW 34 STREET Doral Florida United States 33178	
Manufacturer	ZHENGZHOU SPEED COMMUNICATION EQUIPMEINT CO.,LTD	
Manufacturer Add	6F, Tianzhan Building, Tairan 4th Rd, Chegongmiao, Futian District, Shenzhen,	
	China	

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES	
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park	
Lab Address	South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong	
	China 518108	
FCC Test Site No.	718246	
IC Test Site No.	4842E-1	
Test Software	Radiated Emission Program-To Shenzhen v2.0	



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4. Equipment under Test (EUT) Information

T. Equipment under	TCSt (LOT) Information
Description of EUT:	Mobile Phone
Main Model:	LK700
Serial Model:	N/A
Date EUT received:	May 13, 2015
Test Date(s):	May 28 to June 02, 2015
Equipment Category :	JBP
Antenna Gain:	GSM850:1.24dBi PCS1900: -3.61dBi UMTS-FDD Band V: 0.65dBi Bluetooth: 0.5dBi
Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK, 8PSK UMTS-FDD: QPSK, 16QAM Bluetooth: GFSK, π /4DQPSK, 8DPSK
RF Operating Frequency (ies):	GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz Bluetooth: 2402-2480 MHz
Number of Channels:	GSM 850: 124CH PCS1900: 299CH UMTS-FDD Band V : 102CH Bluetooth: 79CH
Port:	Earphone Port, USB Port

Battery:

Model: F161

Input Power:



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Spec: 3.7V 1000mAh

Charger Max Voltage:4.3V

Adapter:

Model:LK700

Input: AC 100-240V; 50/60Hz 0.15A Max

Output:DC5.0V; 500mA

Trade Name : LIKUID

GPRS/EGPRS Multi-slot class 8/10/12

FCC ID: GAO-LK700



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5. FCC §2.1093 - Radiofrequency radiation exposure evaluation: portable devices.

5.1 RF Exposure

Standard Requirement:

According to §15.247 (i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f_{(GHz)}}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, 16 where

- f_(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is ≤ 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

result = $P\sqrt{F}/D$

P= Maximum turn-up power in mW

F= Channel frequency in GHz

D= Minimum test separation distance in mm



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5.2 Test Result

Bluetooth Mode:

Modulation	СН	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
GFSK	Low	2402	-3.784	-3.5±1	-2.5	0.562	0.17	3
	Mid	2441	-3.751	-3.5±1	-2.5	0.562	0.18	3
	High	2480	-3.505	-3.5±1	-2.5	0.562	0.18	3
π /4 DQPSK	Low	2402	-3.921	-3.5±1	-2.5	0.562	0.17	3
	Mid	2441	-3.898	-3.5±1	-2.5	0.562	0.18	3
	High	2480	-3.720	-3.5±1	-2.5	0.562	0.18	3
8-DPSK	Low	2402	-4.462	-4±1	-3	0.501	0.16	3
	Mid	2441	-4.355	-4±1	-3	0.501	0.16	3
	High	2480	-3.954	-3.5±1	-2.5	0.562	0.18	3

Result: Compliance

No SAR measurement is required.