

Report No: CCIS15120092403

FCC REPORT

Applicant:	Collage Investments LLC				
Address of Applicant:	11437 NW 34 Street Doral FL 33178 USA				
Equipment Under Test (E	UT)				
Product Name:	Mobile Phone				
Model No.:	SNAP				
Trade mark:	SMOOTH				
FCC ID:	GAO-SNAP				
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B				
Date of sample receipt:	02 Dec., 2015				
Date of Test:	03 Dec., to 23 Dec., 2015				
Date of report issued:	24 Dec., 2015				
Test Result:	Pass *				

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

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	24 Dec., 2015	Original

Tested by:

Test Engineer

Date:

24 Dec., 2015

Reviewed by:

given Open Date:

24 Dec., 2015

Project Engineer



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4 Test Summary

Test Item	Section in CFR 47	Result		
Conducted Emission	Part 15.107	Pass		
Radiated Emission	Part 15.109	Pass		

Pass: The EUT complies with the essential requirements in the standard.



5 General Information

5.1 Client Information

Applicant:	Collage Investments LLC		
Address of Applicant:	11437 NW 34 Street Doral FL 33178 USA		
Manufacturer:	Collage Investments LLC		
Address of Manufacturer:	11437 NW 34 Street Doral FL 33178 USA		
Factory:	SHENZHEN OMIS ELECTRONICS TECHNOLOGY CO., LTD.		
Address of Factory:	42/F Block C, Electronics Science & Technology Building, 2070 Shennan Zhong Road, Futian District, Shenzhen, Guangdong, China		

5.2 General Description of E.U.T.

Product Name:	Mobile Phone		
Model No.:	SNAP		
Power supply: Rechargeable Li-ion Battery DC3.7V-1000mAh			
AC adapter :	Input:100-240V AC, 50/60Hz 125mA Output:5.7V DC MAX 800mA		

5.3 Test Mode

Operating mode	Detail description
PC mode	Keep the EUT in Downloading mode(Worst case)
Charging+Recording mode	Keep the EUT in Charging+Recording mode
Charging+Playing mode	Keep the EUT in Charging+Playing mode
FM mode	Keep the EUT in FM receiver mode

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.



5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
HP	Printer	CB495A	05257893	DoC
NAKAMICHI	Bluetooth earphone	Т8	N/A	FCC ID

5.5 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. 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 out files. Registration 817957, February 27, 2012.

• IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd. Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District,Shenzhen, Guangdong,China Tel: +86-755-23118282 Fax: +86-755-23116366



5.7 Test Instruments list

Radia	Radiated Emission:							
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
1	3m SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017		
2	BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	03-28-2015	03-28-2016		
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	03-28-2015	03-28-2016		
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	04-01-2015	03-31-2016		
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2015	03-31-2016		
6	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	03-28-2015	03-28-2016		
7	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	03-28-2015	03-28-2016		

Cond	Conducted Emission:								
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	08-23-2014	08-22-2017			
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-28-2015	03-28-2016			
3	LISN	CHASE	MN2050D	CCIS0074	03-28-2015	03-28-2016			
4	Coaxial Cable	CCIS	N/A	CCIS0086	04-01-2015	03-31-2016			



6 Test results and Measurement Data

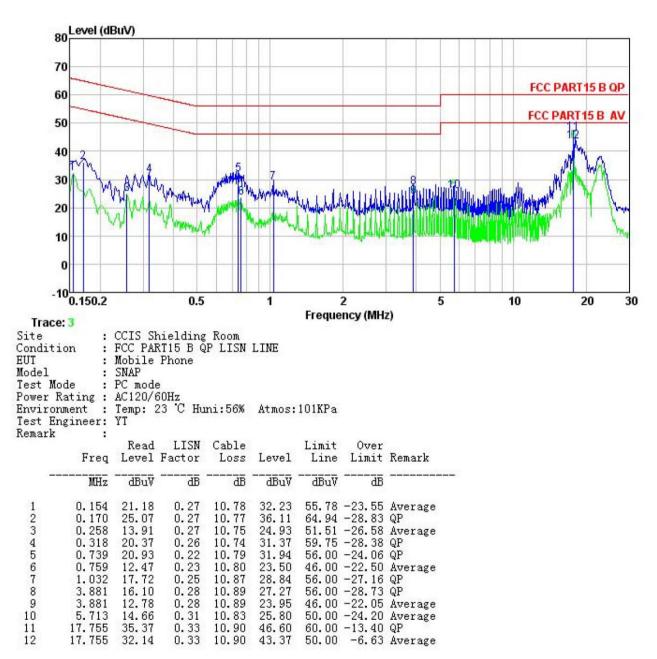
6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.10)7				
Test Method:	ANSI C63.4:2009					
Test Frequency Range:	150kHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9kHz, VBW=30kHz					
Limit:		Limit	(dBµV)			
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	0.5-30	60	50			
Test setup:	* Decreases with the logarith	m of the frequency.				
Test procedure	LISN 40cm 80cm AUX Equipment E.U.T Fequipment E.U.T Test table/Insulation plane Remarkc E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m 1. The E.U.T and simulators	Filter AC p	nain power through a			
	 line impedance stabilization 500hm/50uH coupling imp The peripheral devices are a LISN that provides a 500 termination. (Please refers photographs). Both sides of A.C. line are interference. In order to fir positions of equipment and according to ANSI C63.4: 	e also connected to the ohm/50uH coupling im s to the block diagram e checked for maximum and the maximum emiss d all of the interface ca	ring equipment. e main power through pedance with 500hm of the test setup and m conducted sion, the relative ables must be changed			
Test environment:	Temp.: 23 °C Hun	nid.: 56% Pr	ess.: 101kPa			
Measurement Record:		' U	ncertainty: ±3.28dB			
Test Instruments:	Refer to section 5.7 for detai	ls	-			
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					



Measurement data:

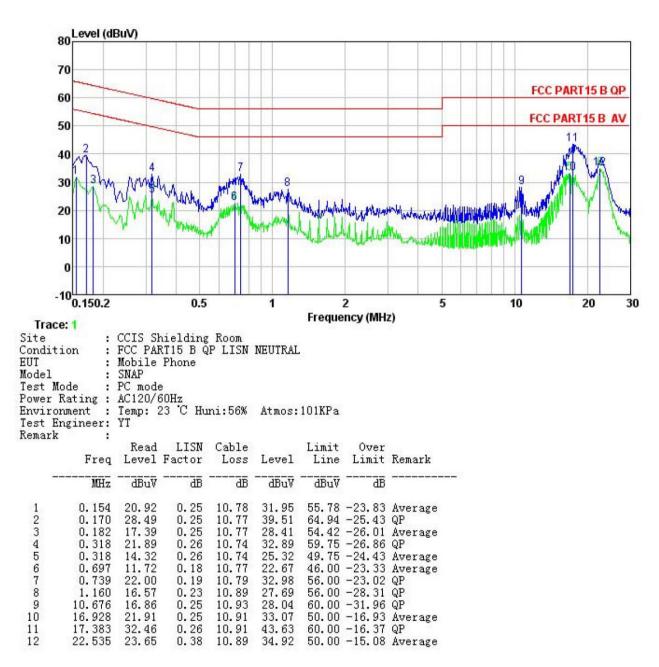
Line:





<u>CCIS</u>

Neutral:



Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



6.2 Radiated Emission

Test Requirement:	FCC Part 15 B S	Section 1	5 109					
Test Method:	ANSI C63.4:2009							
Test Frequency Range:	30MHz to 6000MHz							
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
	Frequency Detector RBW VBW Remark							
Receiver setup:	30MHz-1GHz	Quasi-		120kHz	300k		Quasi-peak Value	
		Pea		1MHz	3MF		Peak Value	
	Above 1GHz	RM		1MHz	3MF		Average Value	
Limit:	Frequenc		Limit	(dBuV/m @	03m)		Remark	
	30MHz-88M			40.0			Quasi-peak Value	
	88MHz-216M			43.5			Quasi-peak Value	
	216MHz-960			46.0			Quasi-peak Value	
	960MHz-1G	HZ		54.0 54.0		C	Quasi-peak Value Average Value	
	Above 1G	Ηz		74.0			Peak Value	
	Below 1GHz							
		E EUT (Turntable)						



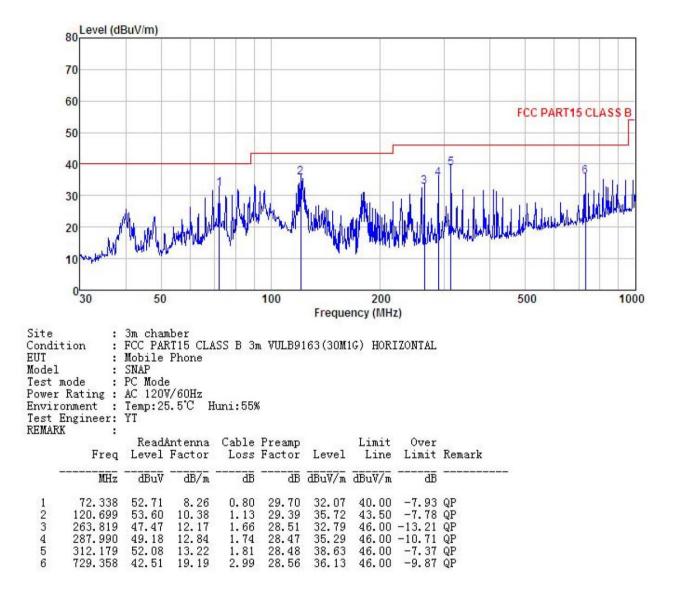
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test environment:	Temp.: 25 °C Humid.: 55% Press.: 1 01kPa
Measurement Record:	Uncertainty: ±4.88dB
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed



Measurement Data

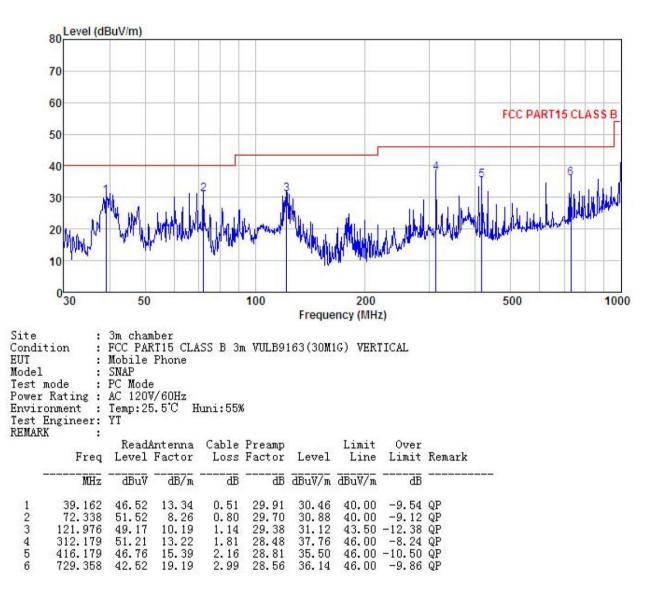
Below 1GHz

Horizontal:





Vertical:

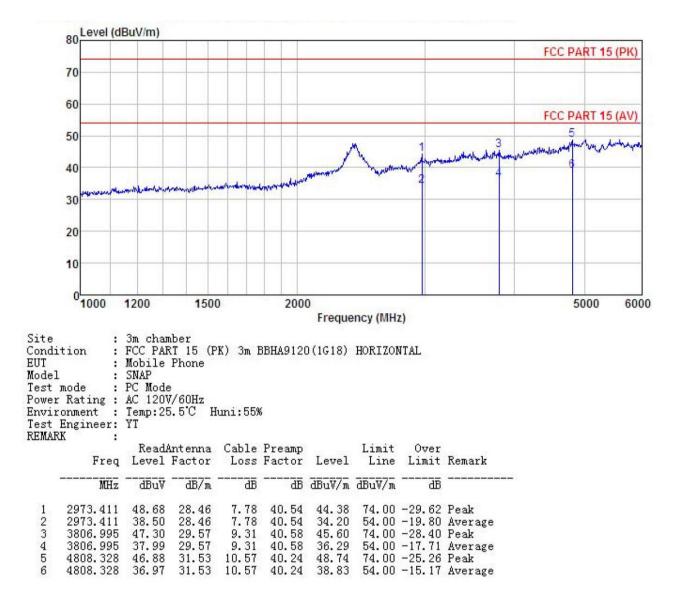






Above 1GHz

Horizontal:





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Vertical:

