Report No: CCISE190307303

FCC REPORT

Applicant: Collage Investments LLC.

Address of Applicant: 6030 NW 99 Ave #414, DORAL, FL 33178, United States

Equipment Under Test (EUT)

Product Name: MOBILE PHONE

Model No.: 1 UNO 3G

Trade mark: S SMOOTH

FCC ID: GAO-ONE3G

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 26 Mar., 2019

Date of Test: 26 Mar., to 18 Apr., 2019

Date of report issued: 18 Apr., 2019

Test Result: PASS *

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.

This report may only be reproduced and distributed in full. 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.

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





2 Version

Version No.	Date	Description
00	18 Apr., 2019	Original

Tested by: Mike OU Date: 18 Apr., 2019

Test Engineer

Reviewed by: Date: 18 Apr., 2019

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	

Remark:

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

N/A: The EUT not applicable of the test item.



5 General Information

5.1 Client Information

Applicant:	Collage Investments LLC.	
Address:	6030 NW 99 Ave #414, DORAL, FL 33178, United States	
Manufacturer: Collage Investments LLC.		
Address: 6030 NW 99 Ave #414, DORAL, FL 33178, United States		

5.2 General Description of E.U.T.

Product Name:	MOBILE PHONE
Model No.:	1 UNO 3G
Power supply:	Rechargeable Li-ion Battery DC3.7V-1000mAh
AC adapter :	Input: AC100-240V, 50/60Hz Output: DC 5.0V, 1000mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

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 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±2.22 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±2.76 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.28 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.72 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±2.88 dB (k=2)



5.5 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
LENOVO	Laptop	SL510	2847A65	DoC

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Description of Cable Used

Cable Type	Description	Length	From	То
Detached USB Cable	Unshielded	1.0m	EUT	Adapter
Detached headset cable	Unshielded	1.2m	EUT	Headset

5.8 Laboratory Facility

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

FCC - Registration No.: 727551

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.

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.

A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.9 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

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 2311 8282 Fax: +86 (0) 755 2311 6366





5.10 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-18-2019	03-17-2020
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-18-2019	03-17-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-18-2019	03-17-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2018	11-20-2019
EMI Test Software	AUDIX	E3	\	/ersion: 6.110919	b
Pre-amplifier	HP	8447D	2944A09358	03-18-2019	03-17-2020
Pre-amplifier	CD	PAP-1G18	11804	03-18-2019	03-17-2020
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-18-2019	03-17-2020
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2018	11-20-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-18-2019	03-17-2020
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-18-2019	03-17-2020
Cable	MICRO-COAX	MFR64639	K10742-5	03-18-2019	03-17-2020
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-18-2019	03-17-2020

Conducted Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-18-2019	03-17-2020	
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-18-2019	03-17-2020	
LISN	CHASE	MN2050D	1447	03-18-2019	03-17-2020	
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019	
Cable	HP	10503A	N/A	03-18-2019	03-17-2020	
EMI Test Software	AUDIX	E3	Version: 6.110919b			



6 Test results and Measurement Data

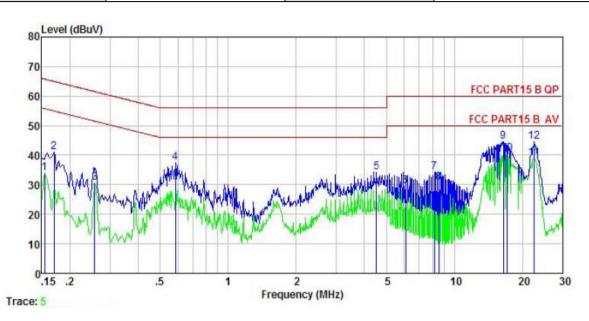
6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107			
Test Method:	ANSI C63.4:2014			
Test Frequency Range:	150kHz to 30MHz			
Class / Severity:	Class B			
Receiver setup:	RBW=9kHz, VBW=30kHz			
Limit:	Fraguency range (MH=)	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	
<u> </u>	* Decreases with the logarith	m of the frequency.		
Test setup:	Reference Plan	ne		
Taskarasakur	AUX Equipment E.U.T EMI Receiver Remark E.U.T Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m			
Test procedure	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement. 			
Test Instruments:	Refer to section 5.10 for details			
Test mode:	Refer to section 5.3 for detail	ls		
Test results:	Pass			



Measurement data:

Product name:	MOBILE PHONE	Product model:	1 UNO 3G
Test by:	MIKE	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



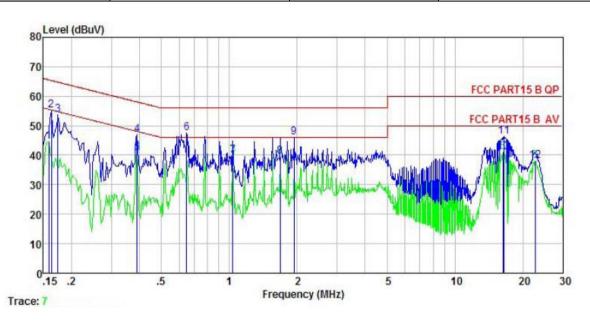
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark	
-	MHz	₫BuV	dB	dB	dBu₹	dBu∇	dB		-
1	0.154	23.58	-0.45	10.78	33.91	65.78	-31.87	Average	
2	0.170	30.62	-0.43	10.77	40.96	64.94	-23.98	QP	
3	0.258	20.22	-0.40	10.75	30.57	61.51	-30.94	Average	
1 2 3 4 5 6 7	0.585	27.24	-0.39	10.76	37.61	56.00	-18.39	QP	
5	4.525	23.91	-0.47	10.87	34.31	56.00	-21.69	QP	
6	6.089	19.13	-0.51	10.82	29.44	60.00	-30.56	Average	
7	8.148	24.04	-0.56	10.86	34.34	60.00	-25.66	QP	
8	8.546	20.49	-0.57	10.88	30.80	60.00	-29.20	Average	
9	16.486	34.46	-0.78	10.91	44.59	60.00	-15.41	QP	
10	17.109	30.23	-0.81	10.91	40.33	60.00	-19.67	Average	
11	22.416	29.11	-1.01	10.90	39.00			Average	
12	22.535	34.67	-1.01	10.90	44.56	60.00	-15.44	QP	

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



Product name:	MOBILE PHONE	Product model:	1 UNO 3G
Test by:	MIKE	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	dB	dB	−−dBuV	—dBu∇	<u>d</u> B	
1	0.158 0.162	34.47 45.12	-0.68 -0.68	10.77 10.77	44.56 55.21		-21.00 -10.13	Average
3	0.174	43.56	-0.69	10.77	53.64	64.77	-11.13	QP
5	0.389	36. 79 30. 62	-0.64 -0.64	10.72 10.72	46.87 40.70		-11.21 -17.38	QP Average
1 2 3 4 5 6 7	0.647 1.037	37.34 29.51	-0.64 -0.63	10.77 10.87	47.47 39.75			QP Average
8	1.680 1.939	29.18 35.68	-0.66 -0.67	10.94 10.96	39.46 45.97	56.00		Average
10	16.312	30.98	-0.98	10.91	40.91	60.00	-19.09	Average
11 12	16.486 22.655	36.35 28.51	-1.01 -1.43	10.91 10.90	46.25 37.98		-13.75 -22.02	Average

Notes

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



6.2 Radiated Emission

	•							
Test Requirement:	FCC Part 15 B Section 15.109 ANSI C63 4:2014							
Test Method:	ANSI C63.4:2014							
Test Frequency Range:	30MHz to 6000M	lHz						
Test site:	Measurement Dis	stance: 3m	(Sen	ni-Anechoic	Chamber)			
Receiver setup:	Frequency	Detect		RBW	VBW	Remark		
	30MHz-1GHz	Quasi-pe		120kHz	300kHz	Quasi-peak Value		
	Above 1GHz Peak			1MHz	3MHz	Peak Value		
		RMS		1MHz	3MHz	Average Value		
Limit:	Frequenc		Lim	nit (dBuV/m	@3m)	Remark		
	30MHz-88N			40.0 43.5		Quasi-peak Value		
	88MHz-216I 216MHz-960			43.5		Quasi-peak Value Quasi-peak Value		
	960MHz-10			54.0		Quasi-peak Value Quasi-peak Value		
				54.0		Average Value		
	Above 1G	Hz		74.0		Peak Value		
Test setup:	Below 1GHz Tum Table Ground Plane Above 1GHz	4m 4m - 1			Antenna Tower Search Antenna Test reiver			
	AE (Turn	W V		erence Plane	Antenna Tow	er		





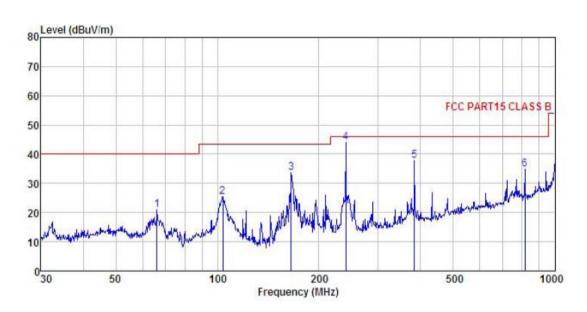
Test Procedure:	The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT and the position of the highest radiation.
	The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	 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 Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All of the observed value above 6GHz ware the niose floor , which were no recorded



Measurement Data:

Below 1GHz:

Product Name:	MOBILE PHONE	Product Model:	1 UNO 3G
Test By:	MIKE	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



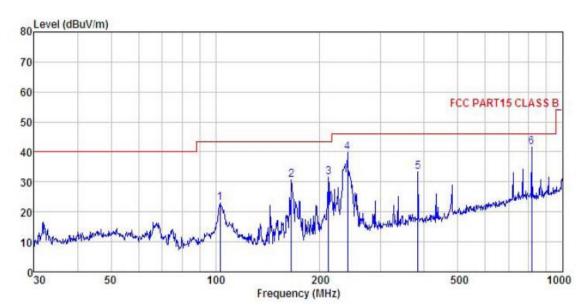
	Freq		Antenna Factor				Limit Line		Remark
	MHz	dBu∜	dB/m	₫B	dB	dBuV/m	dBuV/m	dB	
1	66.266	39.99	9.29	1.41	29.75	20.94	40.00	-19.06	QP
2	103.806	40.85	12.16	1.99	29.50	25.50	43.50	-18.00	QP
2	165.487	50.50	9.49	2.62	29.09	33.52	43.50	-9.98	QP
4	239.987	57.36	12.30	2.82	28.59	43.89	46.00	-2.11	QP
5	383.932	48.45		3.09		37.91	46.00	-8.09	QP
4 5 6	815.968	36.76	21.89	4.30	28.13	34.82	46.00	-11.18	QP

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product Name:	MOBILE PHONE	Product Model:	1 UNO 3G
Test By:	MIKE	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



Freq								
MHz	dBu∀	dB/m		dB	dBuV/m	dBuV/m	<u>dB</u>	
103.080	38.69	11.89	1.97	29.51	23.04	43.50	-20.46	QP
165.487	47.85	9.27	2.62	29.09	30.65	43.50	-12.85	QP
211.527	45.53	11.95	2.86	28.76	31.58	43.50	-11.92	QP
239.987	52.69	12.97	2.82	28.59	39.89	46.00	-6.11	QP
383.932	43.86	15.22	3.09	28.71	33.46	46.00	-12.54	QP
815.968	44.36	21.10	4.30	28.13	41.63	46.00	-4.37	QP
	MHz 103.080 165.487 211.527 239.987 383.932	MHz dBuV 103.080 38.69 165.487 47.85 211.527 45.53 239.987 52.69 383.932 43.86	MHz dBuV dB/m 103.080 38.69 11.89 165.487 47.85 9.27 211.527 45.53 11.95 239.987 52.69 12.97 383.932 43.86 15.22	Freq Level Factor Loss MHz dBuV dB/m dB 103.080 38.69 11.89 1.97 165.487 47.85 9.27 2.62 211.527 45.53 11.95 2.86 239.987 52.69 12.97 2.82 383.932 43.86 15.22 3.09	MHz dBuV dB/m dB dB 103.080 38.69 11.89 1.97 29.51 165.487 47.85 9.27 2.62 29.09 211.527 45.53 11.95 2.86 28.76 239.987 52.69 12.97 2.82 28.59 383.932 43.86 15.22 3.09 28.71	MHz dBuV dB/m dB dB <t< td=""><td>MHz dBuV dB/m dB dB dBuV/m dBuV/m dBuV/m 103.080 38.69 11.89 1.97 29.51 23.04 43.50 165.487 47.85 9.27 2.62 29.09 30.65 43.50 211.527 45.53 11.95 2.86 28.76 31.58 43.50 239.987 52.69 12.97 2.82 28.59 39.89 46.00 383.932 43.86 15.22 3.09 28.71 33.46 46.00</td><td> ReadAntenna Cable Preamp Limit Over </td></t<>	MHz dBuV dB/m dB dB dBuV/m dBuV/m dBuV/m 103.080 38.69 11.89 1.97 29.51 23.04 43.50 165.487 47.85 9.27 2.62 29.09 30.65 43.50 211.527 45.53 11.95 2.86 28.76 31.58 43.50 239.987 52.69 12.97 2.82 28.59 39.89 46.00 383.932 43.86 15.22 3.09 28.71 33.46 46.00	ReadAntenna Cable Preamp Limit Over

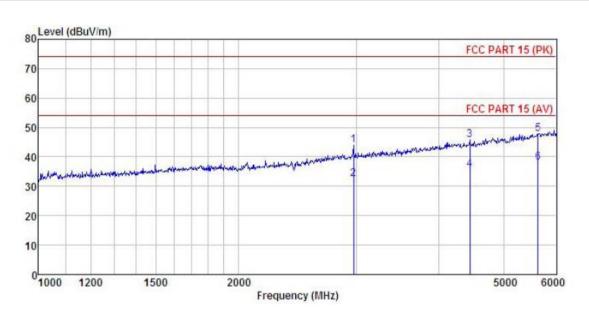
Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Above 1GHz:

Product Name:	MOBILE PHONE	Product Model:	1 UNO 3G
Test By:	MIKE	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



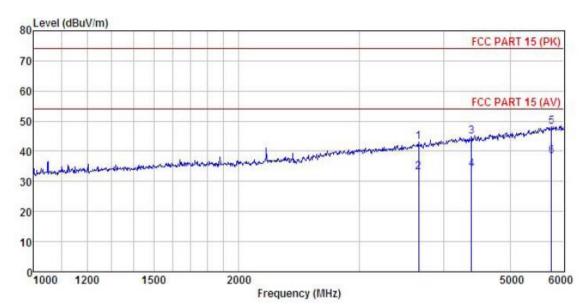
	Freq		Antenna Factor				Limit Line	Over Limit	Remark
	MHz	dBu∜	dB/m	₫B	dB	dBuV/m	dBuV/m	dB	
1	2973.411	49.91	28.45	5.32	41.53	44.03	74.00	-29.97	Peak
2	2973.411	38.33	28.45	5.32	41.53	32.45	54.00	-21.55	Average
3	4448.260	48.15	30.39	6.75	42.00	45.63	74.00	-28.37	Peak
4	4448.260	38.16	30.39	6.75	42.00	35.64			Average
4 5	5629.205	47.07	32.63	7.40	41.83	47.96		-26.04	
6	5629.205	37.24	32.63	7.40	41.83	38.13	54.00	-15.87	Average

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product Name:	MOBILE PHONE	Product Model:	1 UNO 3G		
Test By:	MIKE	Test mode:	PC mode		
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%		



	Freq	ReadAntenna Level Factor		Cable Preamp Loss Factor			Limit Line		Remark
	MHz	dBu∜	<u>dB</u> /m	dB	<u>d</u> B	dBu√/m	dBuV/m	<u>dB</u>	
1	3668.812	47.24	29.20	5.96	41.63	42.97	74.00	-31.03	Peak
2	3668.812	37.21	29.20	5.96	41.63	32.94	54.00	-21.06	Average
2	4388.080	47.36	30.38			44.79			
4	4388.080	36.62	30.38	6.69	41.96	34.05	54.00	-19.95	Average
5	5750.997	46.91	32.65			48.07			
6	5750.997	37.10	32.65	7.74	41.96	38.26	54.00	-15.74	Average

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

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