Report No: CCISE171004405

FCC REPORT

Applicant: Plus One Marketing Ltd.

Address of Applicant: 2-8-6 Nishi-Shimbashi, Minatoku, Tokyo, JAPAN

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: FTU18A00

FCC ID: 2AG5L-FTU18A00

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 23 Oct., 2017

Date of Test: 25 Oct., to 12 Dec., 2017

Date of report issued: 13 Dec., 2017

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.

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





2 Version

Version No.	Date	Description
00	13 Dec., 2017	Original

Test Engineer

Reviewed by: Date: 17 Nov., 2017

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.

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5 General Information

5.1 Client Information

Applicant:	Plus One Marketing Ltd.		
Address of Applicant:	2-8-6 Nishi-Shimbashi, Minatoku, Tokyo, JAPAN		
Manufacturer: Plus one marketing Ltd.			
Address of Manufacturer:	2-8-6 Nishi-Shimbashi, Minatoku, Tokyo, JAPAN		
Factory:	Shenzhen Zhenhua Communication Equipment Co., Ltd		
Address of Factory:	NO.2, NO.3 building, Zhenhua industrial park, NO.44, TieZai Rd, XiXiang town, BaoAn Area, ShenZhen, Guangdong, China.		

5.2 General Description of E.U.T.

Product Name:	Mobile Phone		
Model No.:	FTU18A00		
Power supply:	Rechargeable Li-ion Battery DC3.8V-2500mAh		
AC adapter with two plugs:	Model: A8A-050150U-US2		
	Input: AC100-240V, 50/60Hz, 0.35A		
	Output: DC 5.0V, 1.5A		

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
GPS mode	Keep the EUT in GPS 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

Items	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 30MHz)	2.14 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	4.24 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	4.35 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	4.44 dB (k=2)
Radiated Emission (18GHz ~ 26.5GHz)	4.56 dB (k=2)



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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
HP	Printer	CB495A	05257893	DoC

5.6 Related Submittal(s) / Grant (s)

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

5.7 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

5.8 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.
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Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 2311 8282 Fax: +86 (0) 755 2311 6366





5.9 Test Instruments list

Radia	Radiated Emission:							
Item	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	07-22-2017	07-21-2020		
2	BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	02-25-2017	02-24-2018		
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	02-25-2017	02-24-2018		
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	02-25-2017	02-24-2018		
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	02-25-2017	02-24-2018		
6	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	02-25-2017	02-24-2018		
7	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	02-25-2017	02-24-2018		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	N/A	N/A	CCIS0018	02-25-2017	02-24-2018		
10	Coaxial Cable	N/A	N/A	CCIS0020	02-25-2017	02-24-2018		

Conducted Emission:							
Item	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	07-22-2017	07-21-2020	
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	02-25-2017	02-24-2018	
3	LISN	CHASE	MN2050D	CCIS0074	02-25-2017	02-24-2018	
4	Coaxial Cable	CCIS	N/A	CCIS0086	02-25-2017	02-24-2018	
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	

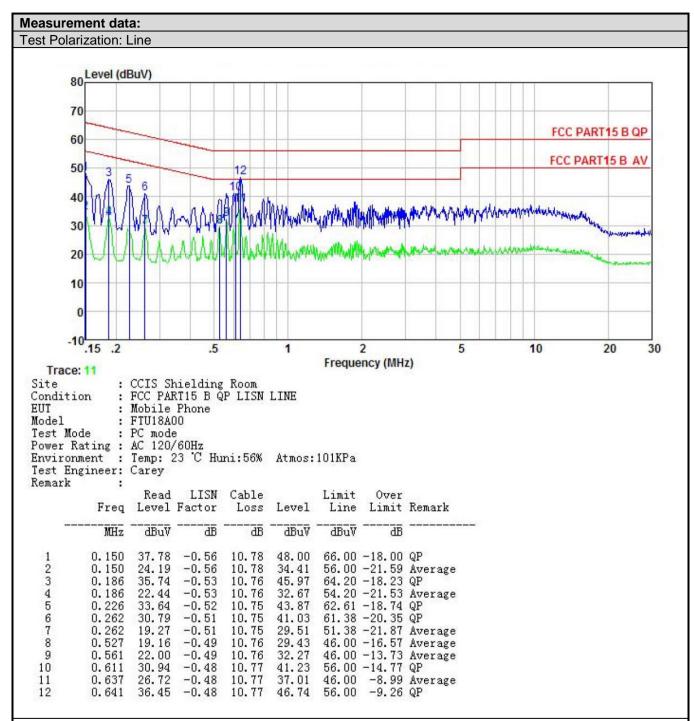


6 Test results and Measurement Data

6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107				
Test Method:	ANSI C63.4:2014 150kHz to 30MHz				
Test Frequency Range:					
Class / Severity:	Class B				
Receiver setup:	RBW=9kHz, VBW=30kHz				
Limit:	Frequency range (MHz)	Lin	nit (dBµV)		
	. , , , ,	Average			
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	0.5-30	60	50		
	* Decreases with the logarith				
Test setup:	Reference Plan	ne			
	AUX Equipment E.U.T 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 environment:	Temp.: 23 °C Hum	1 1	Press.: 101kPa		
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Refer to section 5.3 for detail				
Test results:	Pass	· -			
100110001101	. 555				

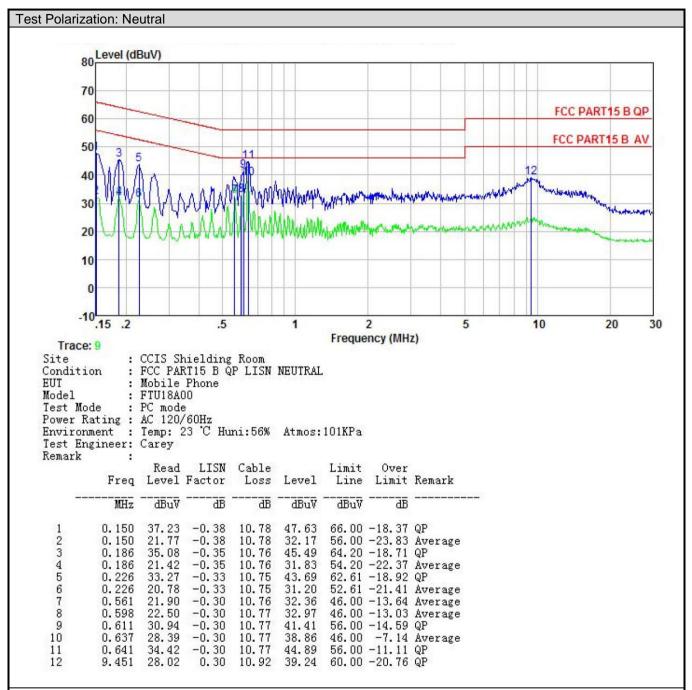




Notes:

- 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.
- Final Level =Receiver Read level + LISN Factor + Cable Loss.





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.
- Final Level =Receiver Read level + LISN Factor + Cable Loss.



6.2 Radiated Emission

Test Requirement:	FCC Part 15 B Section 15.109							
Test Method:	ANSI C63.4:2014							
Test Frequency Range:	30MHz to 6000MHz							
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver setup:	Frequency	Dete		RBW		VBW Remark		
	30MHz-1GHz	Quasi-		120kHz	300k		·	
	Above 1GHz	Pea RM		1MHz 1MHz	3MF 3MF		Peak Value	
Limit:	Frequenc			(dBuV/m @		72	Average Value Remark	
Littit.	30MHz-88M		Liiiiii	40.0	20111)	(Quasi-peak Value	
	88MHz-216N			43.5			Quasi-peak Value	
	216MHz-960			46.0			Quasi-peak Value	
	960MHz-1G			54.0			Quasi-peak Value	
				54.0			Average Value	
	Above 1GI	72		74.0			Peak Value	
Test setup:	Below 1GHz Antenna Tower Search Antenna							
	Tum 0.8m lm Table A A A Ground Plane							
	Above 1GHz							
	- SOCM	E EUT	EUT Horn Antenna Tower					





Test Procedure:	ground degrees	at a 3 meter s to determine	as placed on the top of a rotating table 0.8 meters above the 3 meter semi-anechoic camber. The table was rotated 360 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.						
	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 wo and then the antenna was tuned to heights from 1 meter to 4 r and the rotatable table was turned from 0 degrees to 360 degrees 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	
Test Instruments:	Refer to section 5.9 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						





