

Report No: CCIS15080067003

FCC REPORT

Applicant:	Swagtek				
Address of Applicant:	10205 NW 19th Street, STE101, Miami, FL 33172, USA				
Equipment Under Test (E	UT)				
Product Name:	Feature Phone				
Model No.:	M1 PLUS				
FCC ID:	O55M1P11X				
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B				
Date of sample receipt:	25 Aug., 2015				
Date of Test:	25 Aug., to 09 Sep., 2015				
Date of report issued:	10 Sep., 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	10 Sep., 2015	Original

Prepared by:

YT Yang

10 Sep., 2015

Report Clerk

Reviewed by:

aver Open

Date:

Date:

10 Sep., 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:	Swagtek
Address of Applicant:	10205 NW 19th Street, STE101, Miami, FL 33172, USA
Manufacturer:	Swagtek
Address of Manufacturer:	10205 NW 19th Street, STE101, Miami, FL 33172, USA

5.2 General Description of E.U.T.

Product Name:	Feature Phone
Model No.:	M1 PLUS
Power supply:	Rechargeable Li-ion Battery DC3.7V-600mAh
AC adapter :	Input:100-240V AC,50/60Hz, 0.15A Output:5V DC MAX 0.5A

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			
Charging+FM mode	eep the EUT in Charging+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

Radiated Emission:								
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017		
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	03-28-2015	03-28-2016		
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	03-28-2015	03-28-2016		
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
5	Amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	04-01-2015	03-31-2016		
6	Amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2015	03-31-2016		
7	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	04-01-2015	03-31-2016		
8	Horn Antenna	ETS-LINDGREN	3160	GTS217	04-01-2015	03-31-2016		
9	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A		
10	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A		
11	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	03-28-2015	03-28-2016		
12	EMI Test Receiver	Rohde & Schwarz	ESRP	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	11-10-2012	11-09-2015			
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			



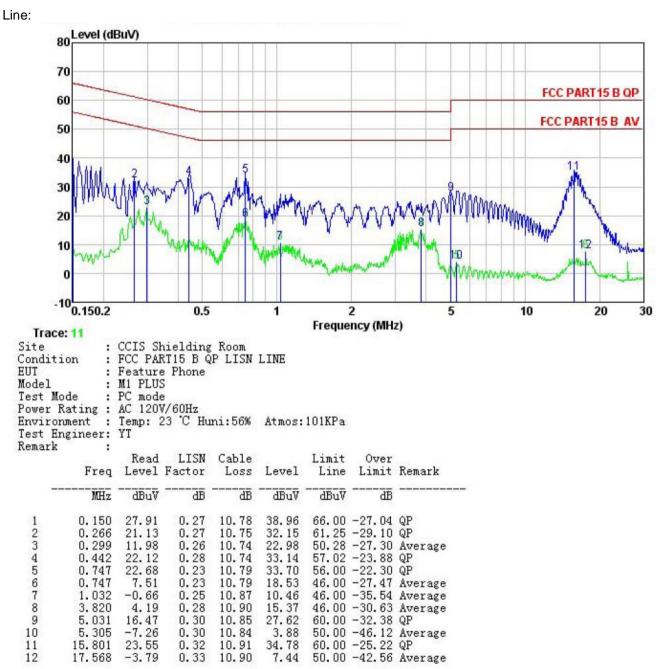
6 Test results and Measurement Data

6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.10	07				
Test Method:	ANSI C63.4:2009	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 Reference Pla	· ·				
Tast procedure	LISN 40cm 80c AUX Equipment E.U.T Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network: Test table height=0.8m 1	Filter AC p EMI Receiver				
Test procedure	 The E.U.T and simulators line impedance stabilization 500hm/50uH coupling imp The peripheral devices and a LISN that provides a 500 termination. (Please refers photographs). Both sides of A.C. line and interference. In order to find positions of equipment and according to ANSI C63.4: 	on network(L.I.S.N.). T bedance for the measu e also connected to the ohm/50uH coupling im s to the block diagram e checked for maximur nd the maximum emiss d all of the interface ca	he provide a ring equipment. e main power through pedance with 500hm of the test setup and m conducted sion, the relative ubles must be changed			
Test environment:	Temp.: 23 °C Hun	nid.: 56% Pr	ess.: 1 01kPa			
Measurement Record:		ı	Uncertainty: 3.28dB			
Test Instruments:	Refer to section 5.7 for detai		,			
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					

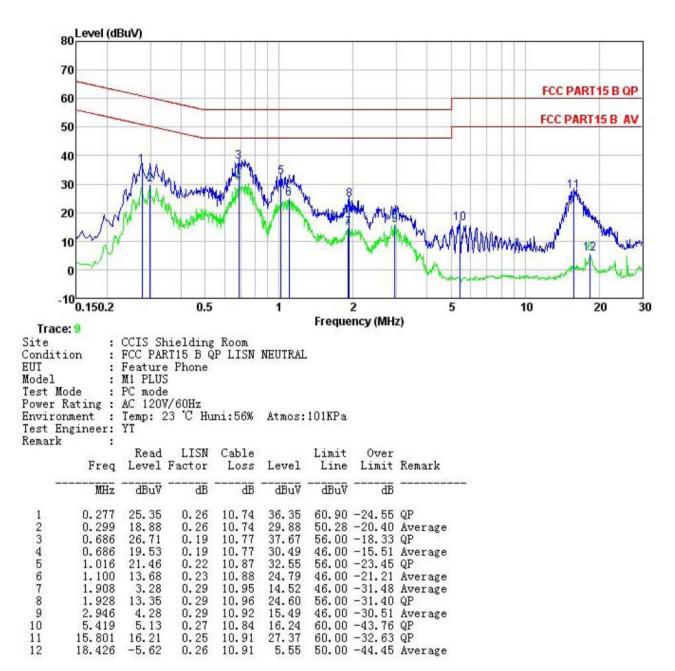


Measurement data:





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 Section 15.109						
Test Method:	ANSI C63.4:2009						
Test Frequency Range:	30MHz to 6000MHz						
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)						
Receiver setup:	Frequency	Detect	tor	RBW	VBV	Ν	Remark
	30MHz-1GHz	Quasi-p	eak	120kHz	300k	Hz	Quasi-peak Value
	Above 1GHz	Peak	〈	1MHz	3M⊦	3MHz Peak Va	
	Above IGHZ	RMS	3	1MHz	3MF	lz	Average Value
Limit:	Frequency	y	Limit	t (dBuV/m @	03m)		Remark
	30MHz-88M	Hz		40.0		(Quasi-peak Value
	88MHz-216N	/Hz		43.5		(Quasi-peak Value
	216MHz-960			46.0		(Quasi-peak Value
	960MHz-1G	Hz		54.0		(Quasi-peak Value
	Above 1GE	17		54.0			Average Value
	Above 10	12		74.0			Peak Value
	Above 1GHz 54.0 Average Value						



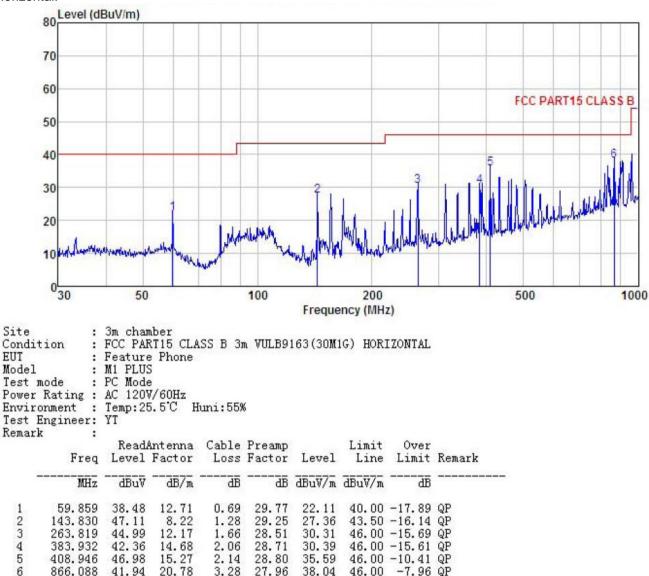
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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

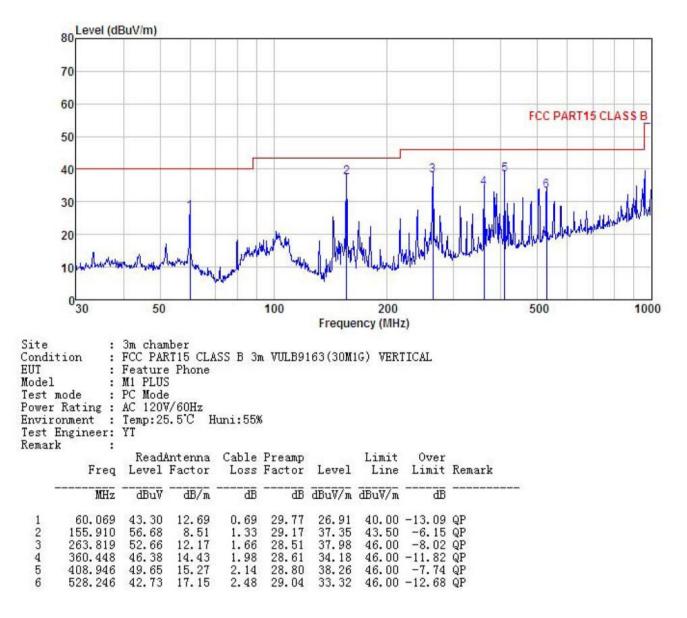
Below 1GHz

Horizontal:





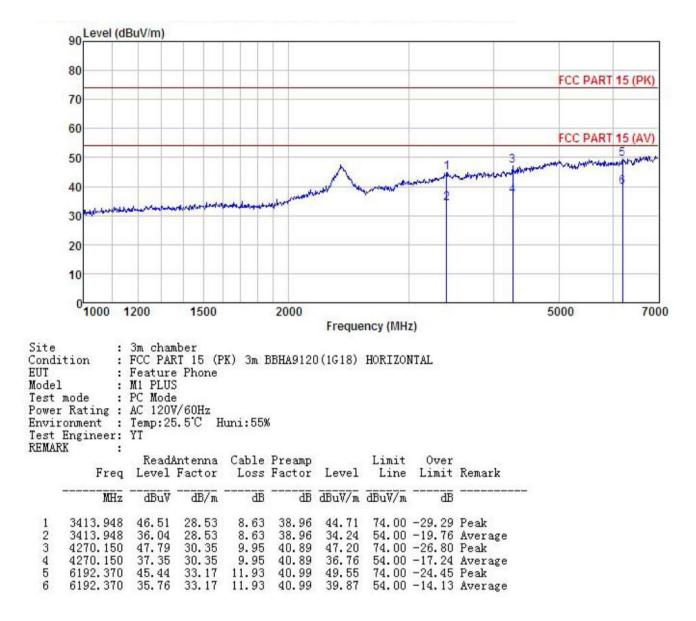
Vertical:





Above 1GHz

Horizontal:





<u>CCIS</u>

Vertical:

