

Report No: CCISE170707804

# **FCC REPORT**

Applicant:	Interglobe Connection Corp
Address of Applicant:	8228 NW 30th Terrace. Doral, Miami, FL 33122
Equipment Under Test (E	EUT)
Product Name:	mobile phone
Model No.:	Star G50E
Trade mark:	ЕКО
FCC ID:	2AC7I EKOSG50E
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B
Date of sample receipt:	29 Jun., 2017
Date of Test:	29 Jun., to 06 Jul., 2017
Date of report issued:	06 Jul, 2017
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.

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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#### 2 Version

Version No.	Date	Description
00	06 Jul, 2017	Original

Tested by:

Zora Lee Date:

Date:

06 Jul, 2017

Test Engineer

Reviewed by:

06 Jul, 2017

Ryan.lee Project Engineer



# 3 Contents

			Page
1	C	COVER PAGE	1
2	V	/ERSION	2
3	C	CONTENTS	
4		EST SUMMARY	
5		GENERAL INFORMATION	
ŗ	5.1	CLIENT INFORMATION	5
ŗ	5.2	GENERAL DESCRIPTION OF E.U.T.	
ŗ	5.3	Test Mode	5
ŗ	5.4	Measurement Uncertainty	
ŗ	5.5	DESCRIPTION OF SUPPORT UNITS	6
ŗ	5.6	LABORATORY FACILITY	6
ŗ	5.7	LABORATORY LOCATION	6
ŗ	5.8	Test Instruments list	7
6	Т	EST RESULTS AND MEASUREMENT DATA	8
(	5.1	Conducted Emission	8
(	5.2	RADIATED EMISSION	11
7	Т	EST SETUP PHOTO	
8	E	EUT CONSTRUCTIONAL DETAILS	



# 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:	Interglobe Connection Corp.
Address of Applicant:	8228 NW 30th Terrace. Doral, Miami, FL 33122
Manufacturer	Interglobe Connection Limited
Address of Manufacturer:	UNIT 1302(A),13/F,PROSPERITY COMMERCIAL CENTRE,982 CANTON ROAD,MONGKOK,KOWLOON,HONG KONG

## 5.2 General Description of E.U.T.

Product Name:	mobile phone
Model No.:	Star G50E
Power supply:	Rechargeable Li-ion Battery DC3.8V-2000mAh
	Model: 853-5010
AC adapter :	Input: AC100-240V 50/60Hz 0.15 A
	Output: DC 5.0V, 1.0 A

## 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)



## 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
MERCURY	Wireless router	MW150R	12922104015	FCC ID
NAKAMICHI	Bluetooth earphone	Т8	N/A	FCC ID

## 5.6 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.

### 5.7 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 Website: http://www.ccis-cb.com Tel: +86-755-23118282 Fax:+86-755-23116366 Email: info@ccis-cb.com



## 5.8 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 SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017
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

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	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

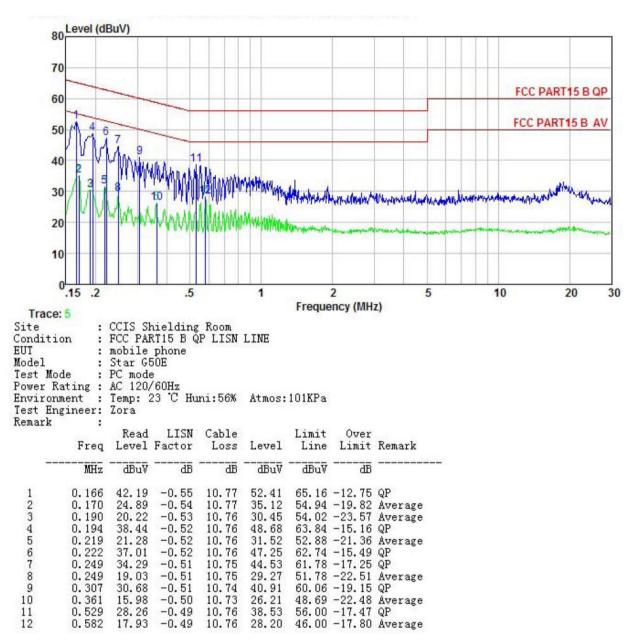
## 6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.10	07			
Test Method:	ANSI C63.4:2014				
Test Frequency Range:	150kHz to 30MHz				
Class / Severity:	Class B				
Receiver setup:	RBW=9kHz, VBW=30kHz				
Limit:	Frequency range (MHz)	Limit ( Quasi-peak	(dBµV)		
	0.15-0.5	66 to 56*	Average 56 to 46*		
	0.5-5	56	46		
	0.5-30	60	50		
	* Decreases with the logarith	m of the frequency.			
Test setup:	Reference Pla	ne			
Toot procedure	LISN       40cm       80c         AUX       Equipment       E.U.T         Test table/Insulation plane         Remarkc         E.U.T. Equipment Under Test         LISN. Line Impedence Stabilization Network         Test table /Insulation plane	Filter AC po EMI Receiver			
Test procedure	<ol> <li>The E.U.T and simulators line impedance stabilization 500hm/50uH coupling imp</li> <li>The peripheral devices and a LISN that provides a 500 termination. (Please refers photographs).</li> <li>Both sides of A.C. line and interference. In order to find positions of equipment and according to ANSI C63.4:</li> </ol>	on network(L.I.S.N.). The bedance for the measur e also connected to the ohm/50uH coupling imp s to the block diagram of e checked for maximun and the maximum emiss d all of the interface cal	ne provide a ring equipment. main power through bedance with 500hm of the test setup and n conducted ion, the relative bles must be changed		
Test environment:	Temp.: 23 °C Humid.: 56% Press.: 101kPa				
Test Instruments:	Refer to section 5.7 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				



#### Measurement data:

Line:



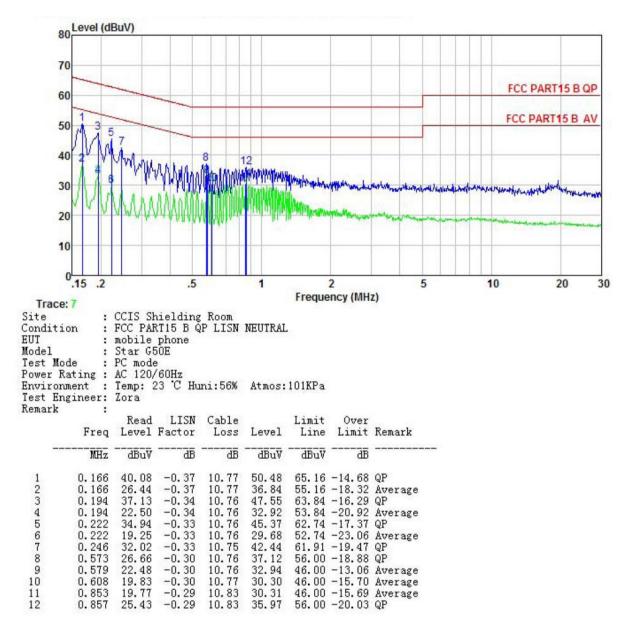
Notes:

- 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.





#### Neutral:



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	FCC Part 15 B Section 15.109									
Test Method:	ANSI C63.4:201	ANSI C63.4:2014									
Test Frequency Range:	30MHz to 26000	OMHz									
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)										
Receiver setup:							Remark				
	30MHz-1GHz Quasi-				300kHz		Quasi-peak Value				
	Above 1GHz	Pea		1MHz	3MF 3MF						
		RM				1Z	Average Value				
Limit:	Frequenc 30MHz-88M		Limit (dBuV/m @3m) 40.0			Remark Quasi-peak Value					
	88MHz-216	43.5			Quasi-peak Value						
	216MHz-960		46.0			Quasi-peak Value					
	960MHz-1G	54.0			Quasi-peak Value						
	Above 1G					Average Value					
	Above IG	74.0			Peak Value						
Test setup:	Above ronz     74.0     Peak Value       Below 1GHz     Antena Tower       Further and the stateman tower     Search Antenna Tower       Further and the stateman tower     RF Test Receiver       Ground Plane     Above 1GHz										



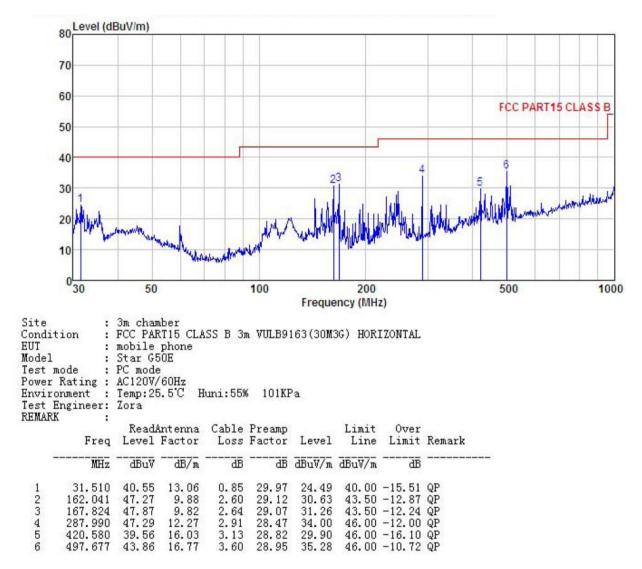
Test Procedure:	<ol> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>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.</li> <li>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.</li> <li>The test-receiver system was set to Peak Detect Function and Specifie Bandwidth with Maximum Hold Mode.</li> </ol>									
	6. If the emission level of the EUT in peak mode was 10dB lower tha limit specified, then testing could be stopped and the peak values EUT would be reported. Otherwise the emissions that did not have 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 5.7 for details									
Test mode:	Refer to section 5.3 for details									
Test results:	Passed									
Remark:	All of the observed value above 6GHz were the niose floor , which were no recorded									



#### **Measurement Data:**

#### **Below 1GHz**

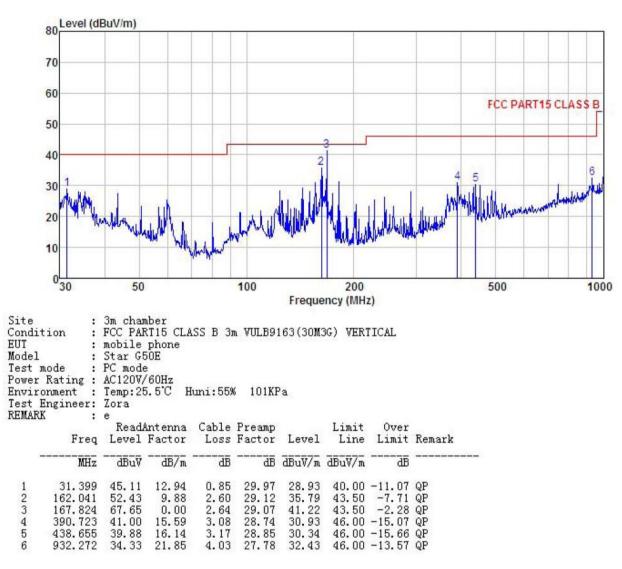
Horizontal:







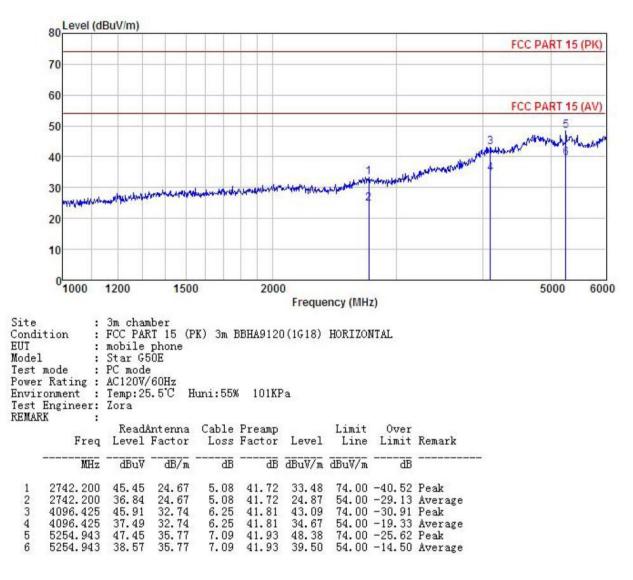
Vertical:





#### Above 1GHz

Horizontal:





<u>CCIS</u>

Vertical:

