Report No: CCIS15010007003

FCC REPORT

Applicant: Interglobe Connection Corp

Address of Applicant: 7500 NW 25th Street 112 Miami, Florida 33122 USA

Equipment Under Test (EUT)

Product Name: MOBILE PHONE

Model No.: SOLE F450

Trade mark: SOLE

FCC ID: 2AC7ISOLE-F450

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 27 Jan., 2015

Date of Test: 27 Jan., to 17 Mar., 2015

Date of report issued: 17 Mar., 2015

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	17 Mar., 2015	Original

Prepared by: Date: 17 Mar., 2015

Report Clerk

Reviewed by: Date: 17 Mar., 2015

Project Engineer





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4 Test Summary

Test Item	Section in CFR 47	Result		
Conducted Emission	Part15.107	Pass		
Radiated Emission	adiated Emission Part15.109			

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



Report No: CCIS15010007003

5 General Information

5.1 Client Information

Applicant:	Interglobe Connection Corp
Address of Applicant:	7500 NW 25 th Street 112 Miami, Florida 33122 USA

5.2 General Description of E.U.T.

Product Name:	MOBILE PHONE
Model No.:	SOLE F450
Power supply:	Rechargeable Li-ion Battery DC3.7V-600mAh
AC adapter :	Input:100-240V AC,50/60Hz Output:5V DC MAX 500mA

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+Play mode	Keep the EUT in Charging+Play 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.



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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	HP Printer		05257893	DoC
MERCURY	MERCURY Wireless router		12922104015	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:								
Item	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	04-19-2014	04-19-2015		
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	04-19-2014	04-19-2015		
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
5	Coaxial Cable	CCIS	N/A	CCIS0016	04-01-2014	03-31-2015		
6	Coaxial Cable	CCIS	N/A	CCIS0017	04-01-2014	03-31-2015		
7	Coaxial cable	CCIS	N/A	CCIS0018	04-01-2014	03-31-2015		
8	Coaxial Cable	CCIS	N/A	CCIS0019	04-01-2014	03-31-2015		
9	Coaxial Cable	CCIS	N/A	CCIS0087	04-01-2014	03-31-2015		
10	Amplifier(10kHz- 1.3GHz)	HP	8447D	CCIS0003	04-01-2014	03-31-2015		
11	Amplifier(1GHz- 18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	06-09-2014	06-08-2015		
12	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	04-01-2014	03-31-2015		
13	Horn Antenna	ETS-LINDGREN	3160	GTS217	03-31-2014	03-29-2015		
14	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A		
15	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A		
16	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	04-19-2014	04-19-2015		
17	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	04-01-2014	03-31-2015		
18	Loop antenna	Laplace instrument	RF300	EMC0701	04-01-014	03-31-2015		
19	Universal radio communication tester		CMU200	CCIS0069	05-29-2014	05-28-2015		
20	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	04-19-2014	04-19-2015		

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	06-09-2014	06-08-2015			
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	04-19-2014	04-19-2015			
3	LISN	CHASE	MN2050D	CCIS0074	01-10-2014	04-09-2015			
4	Coaxial Cable	CCIS	N/A	CCIS0086	04-01-2014	03-31-2015			



6 Test results and Measurement Data

6.1 Conducted Emission

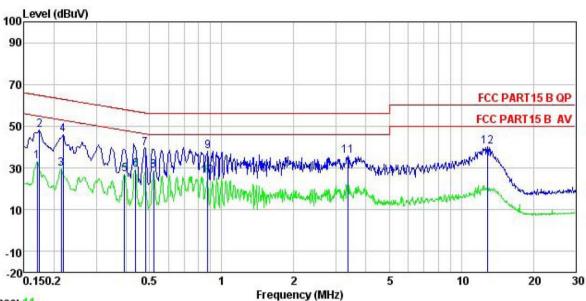
	T						
Test Requirement:	FCC Part 15 B Section 15.107						
Test Method:	ANSI C63.4:2003						
Test Frequency Range:	150kHz to 30MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9kHz, VBW=30kHz						
Limit:	Frequency range (MHz)	Limit	(dBµV)				
		Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5 0.5-30	56 60	46 50				
	* Decreases with the logarith		50				
Test setup:	Reference Plan	· · · · · · · · · · · · · · · · · · ·					
Toot procedure	AUX Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m	Filter — AC p EMI Receiver					
Test procedure	 The E.U.T and simulators line impedance stabilization 500hm/50uH coupling impedances 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 an according to ANSI C63.4: 	on network(L.I.S.N.). To be dance for the measure also connected to the ohm/50uH coupling imports to the block diagram are checked for maximum and the maximum emissed all of the interface care	the provide a ring equipment. The main power through pedance with 500hm of the test setup and the conducted sion, the relative ables must be changed				
Test environment:	Temp.: 23 °C Hun	nid.: 56% Pr	ess.: 1 01kPa				
Measurement Record:			Uncertainty: 3.28dB				
Test Instruments:	Refer to section 5.7 for detai						
Test mode:	Refer to section 5.3 for detail						
Test results:	Pass						
rest results.	1 033						





Measurement data:

Line:



Trace: 11

: CCIS Shielding Room : FCC PART15 B QP LISN LINE : 070RF Site Condition

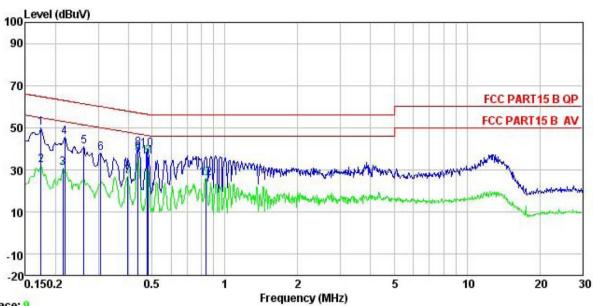
Job No. : MOBILE PHONE : SOLE F450 EUT Model Test Mode : PC mode
Power Rating : AC 120/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: Wendell

Remark	: Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark	
	MHz	dBu∇		dB	dBu₹	dBu₹	<u>dB</u>		
1	0.170	22.12	0.27	10.77	33.16	54.94	-21.78	Average	
2	0.174	37.14	0.27	10.77	48.18	64.77	-16.59	QP	
3	0.214	18.57	0.28	10.76	29.61	53.05	-23.44	Average	
4	0.219	34.80	0.28	10.76	45.84	62.88	-17.04	QP	
5	0.393	15.95	0.28	10.72	26.95	47.99	-21.04	Average	
4 5 6 7 8 9	0.437	18.17	0.28	10.74	29.19	47.11	-17.92	Average	
7	0.481	28.38	0.29	10.75	39.42	56.32	-16.90	QP	
8	0.521	17.50	0.28	10.76	28.54	46.00	-17.46	Average	
9	0.876	26.84	0.24	10.83	37.91	56.00	-18.09	QP	
10	0.876	14.96	0.24	10.83	26.03	46.00	-19.97	Average	
11	3.364	24.54	0.27	10.91	35.72	56.00	-20.28	QP	
12	12.852	28.96	0.32	10.91	40.19	60.00	-19.81	QP	





Neutral:



Trace: 9

Site

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL : OTORF

Condition Job No.

: MOBILE PHONE EUT SOLE F450 Model Test Mode : PC mode
Power Rating : AC 120/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: Wendell

Remark

Comark	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∜	<u>dB</u>	₫B	dBu₹	dBu∀	<u>dB</u>	
1	0.174	38.82	0.25	10.77	49.84	64.77	-14.93	QP
1 2 3	0.174	21.36	0.25	10.77	32.38	54.77	-22.39	Average
	0.214	19.92	0.25	10.76	30.93	53.05	-22.12	Average
4	0.219	34.63	0.25	10.76	45.64	62.88	-17.24	QP
4 5 6 7 8 9	0.262	30.28	0.26	10.75	41.29	61.38	-20.09	QP
6	0.307	27.11	0.26	10.74	38.11	60.06	-21.95	QP
7	0.398	15.99	0.25	10.72	26.96	47.90	-20.94	Average
8	0.437	29.26	0.27	10.74	40.27	57.11	-16.84	QP
9	0.437	26.40	0.27	10.74	37.41	47.11	-9.70	Average
10	0.479	28.71	0.28	10.75	39.74	56.36	-16.62	QP
11	0.481	24.99	0.28	10.75	36.02	46.32	-10.30	Average
12	0.835	14.83	0.20	10.82	25.85	46.00	-20.15	Average

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 C63.4:2003							
Test Frequency Range:	30MHz to 6000MHz							
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver setup:	Frequency		Detector RBW		VBW		Remark	
	30MHz-1GHz Quasi-				300k		Quasi-peak Value	
	Above 1GHz	Pea		1MHz 3MF			Peak Value	
		Peak 1MI		1MHz	10Hz		Average Value	
Limit:	Frequency		Limi	t (dBuV/m @	⊉3m)		Remark	
	30MHz-88M			40.0			Quasi-peak Value	
	88MHz-216N			43.5			Quasi-peak Value	
	216MHz-960I			46.0			Quasi-peak Value	
	960MHz-1G	Hz		54.0		(Quasi-peak Value	
	Above 1GF	lz -		54.0			Average Value	
				74.0			Peak Value	
Test setup:	Below 1GHz Antenna Tower Search Antenna RF Test Receiver Ground Plane Above 1GHz Antenna Tower Antenna Tower							





Test Procedure:	1. 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.							
	2. 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							

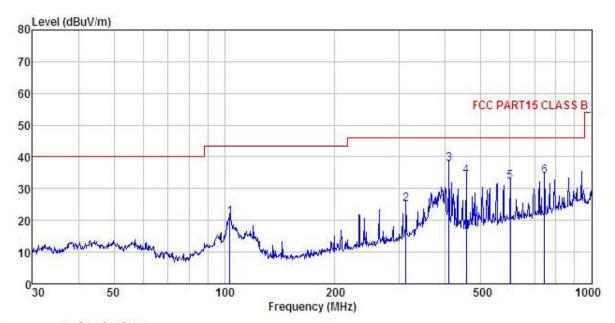




Measurement Data

Below 1GHz

Horizontal:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL Condition

EUT : MOBILE PHONE Model : SOLE F450
Test mode : PC Mode
Power Rating : AC 120V/60Hz
Environment : Test Frankers West 25.5°C Huni:55%

Test Engineer: Wendell

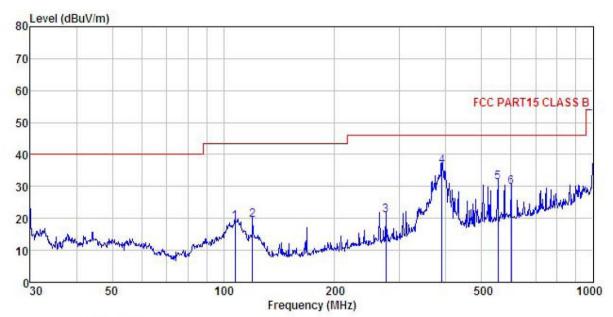
REMARK

PHEHAT									
	Freq		Antenna Factor						
-	MHz	dBu₹	$\overline{dB/m}$			$\overline{dBuV/m}$	dBu√/m	<u>dB</u>	
1	103.442	36.75	12.82	0.99	29.50	21.06	43.50	-22.44	QP
2	312.179	38.58	13.22	1.81	28.48	25.13	46.00	-20.87	QP
2	408.946	49.13	15.27	2.14	28.80	37.74	46.00	-8.26	QP
	455.906	45.02	15.58	2.27	28.88	33.99	46.00	-12.01	QP
5 6	601.427	40.07	18.46	2.63	28.93	32.23	46.00	-13.77	QP
6	744.866	40.05	19.39	3.03	28.50	33.97	46.00	-12.03	QP





Vertical:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL Condition

: MOBILE PHONE : SOLE F450 EUT Model

Test mode : PC Mode Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55% Test Engineer: Wendell REMARK :

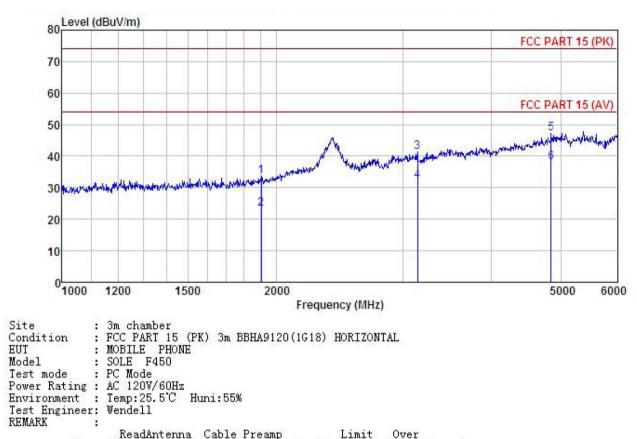
Elliwin									
	Freq		Antenna Factor						Remark
_	MHz	dBuV	<u>dB</u> /m	dB	<u>dB</u>	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
1	107.510	34.87	12.49	1.03	29.47	18.92	43.50	-24.58	QP
2	119.856	37.17	10.48	1.12	29.39	19.38	43.50	-24.12	QP
2 3 4 5 6	275.157	35.09	12.55	1.70	28.49	20.85	46.00	-25.15	QP
4	390.723	48.13	14.87	2.09	28.74	36.35	46.00	-9.65	QP
5	552.883	40.19	17.62	2.54	29.09	31.26	46.00	-14.74	QP
6	601.427	37.58	18.46	2.63	28.93	29.74	46.00	-16.26	QP





Above 1GHz

Horizontal:

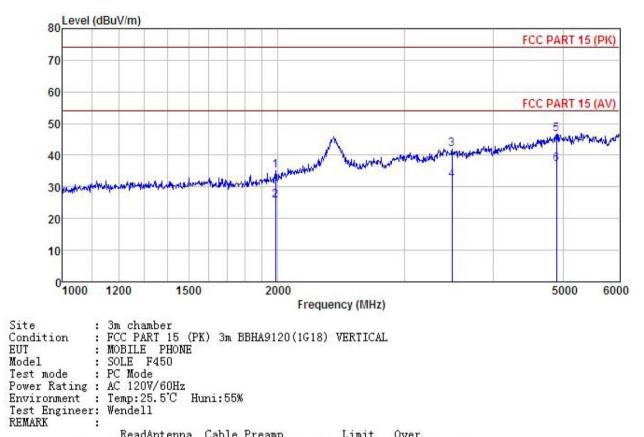


	Freq		Antenna Factor				Limit Line		Remark
-	MHz	—dBuV	dB/π		<u>d</u> B	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
1	1902.639	43.96	25.75	4.75				-40.45	
2	1902.639	33.79	25.75	4.75	40.91	23.38	54.00	-30.62	Average
3	3147.870	47.08	28.87	5.94				-32.77	
4	3147.870	37.97	28.87	5.94	40.66	32.12	54.00	-21.88	Average
5	4847.873	47.01	31.56	8.94	40.19	47.32	74.00	-26.68	Peak
6	4847.873	37.76	31.56	8.94	40.19	38.07	54.00	-15.93	Average





Vertical:



CHICALA									
	Freq		Antenna Factor				Limit Line	Over Limit	Remark
2	MHz	dBu₹	<u>dB</u> /m	dB	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
1	1982.685	45.02	26.06	4.82	40.85	35.05	74.00	-38.95	Peak
2	1982.685	35.79	26.06	4.82	40.85	25.82	54.00	-28.18	Average
3	3498.869	46.37	28.86	6.27	39.58	41.92	74.00	-32.08	Peak
4	3498.869	36.52	28.86	6.27	39.58	32.07	54.00	-21.93	Average
5	4900.271	46.25	31.59	9.00	40.12			-27.28	
6	4900.271	36.84	31.59	9.00	40.12	37.31	54.00	-16.69	Average