

Report No: CCISE170403504

FCC REPORT

Applicant:	Interglobe Connection Corp	
Address of Applicant:	8828 NW 30th Terrace. Doral, Miami, FL 33122	
Equipment Under Test (E	EUT)	
Product Name:	4 inch	
Model No.:	POP S40	
Trade mark:	SOLE	
FCC ID:	2AC7ISOLEPOPS40	
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B	
Date of sample receipt:	14 Apr., 2017	
Date of Test:	14 Apr., to 01 Jun., 2017	
Date of report issued:	06 Jun., 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 Jun., 2017	Original

Tested by:

Test Engineer

Date:

06 Jun., 2017

Reviewed by:

lian 9

Date:

06 Jun., 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.



5 General Information

5.1 Client Information

Applicant:	Interglobe Connection Corp
Address of Applicant:	8828 NW 30th Terrace. Doral, Miami, FL 33122
Manufacturer/Factory:	Interglobe Connection Limited
	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:	4 inch	
Model No.:	POP S40	
Power supply:	Rechargeable Li-ion Battery DC3.8V-1400mAh	
	Model: POP S40	
AC adapter :	Input: AC100-240V 50/60Hz 0.15A	
	Output: DC 5.0V, 0.6A	

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

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 Tel: +86-755-23118282 Fax: +86-755-23116366



5.8 Test Instruments list

Radia	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

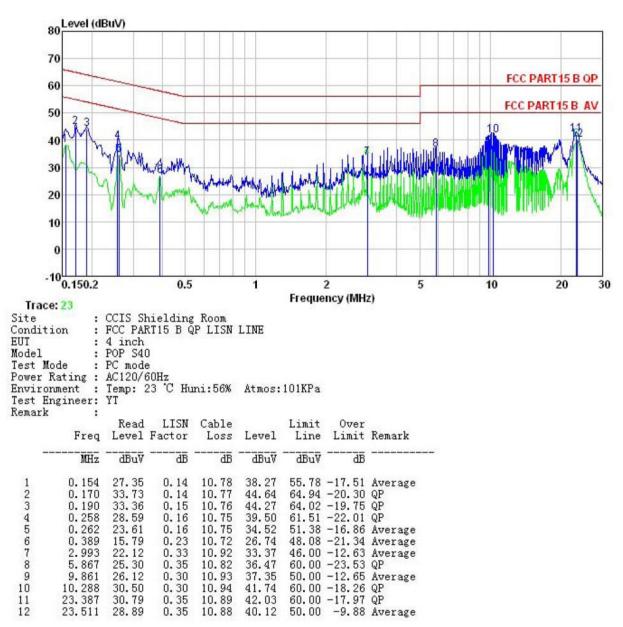
6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.10)7		
Test Method:	ANSI C63.4:2014			
Test Frequency Range:	150kHz to 30MHz			
Class / Severity:	Class B			
Receiver setup:	RBW=9kHz, VBW=30kHz			
Limit:		Limit	(dBµV)	
Linnt.	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	
	* Decreases with the logarith	m of the frequency.		
Test setup:	Reference Plar	ne		
Tertenanter	AUX Equipment E.U.T Test table/Insulation plane Remarkc E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	EMI Receiver		
Test procedure	 The E.U.T and simulators line impedance stabilization 500hm/50uH coupling imp The peripheral devices are a LISN that provides a 500 termination. (Please refers photographs). Both sides of A.C. line are interference. In order to fin 	on network(L.I.S.N.). T bedance for the measu e also connected to th ohm/50uH coupling im s to the block diagram e checked for maximu nd the maximum emiss	the provide a liring equipment. e main power through pedance with 500hm of the test setup and m conducted sion, the relative	
	positions of equipment and according to ANSI C63.4:			
Test environment:		2014 on conducted m		
Test environment: Test Instruments:	according to ANSI C63.4:	2014 on conducted m nid.: 56% P	easurement.	
	according to ANSI C63.4: Temp.: 23 °C Hurr	2014 on conducted m hid.: 56% P Is	easurement.	



Measurement data:

Line:



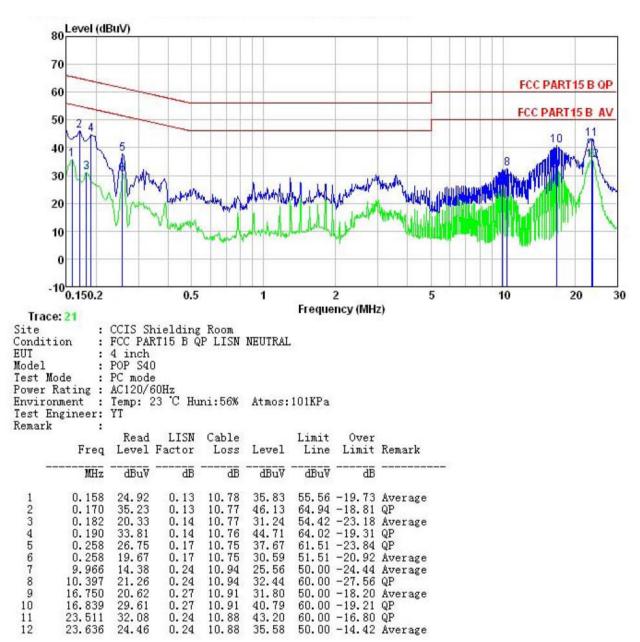
Notes:

- 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 Section 15.109										
Test Method:	ANSI C63.4:2014										
Test Frequency Range:	30MHz to 26000MHz										
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)										
Receiver setup:	Frequency Detector RBW VBW Remark										
	30MHz-1GHz Quasi-				300kHz		Quasi-peak Value				
	Above 1GHz	Pea		1MHz	3MF		Peak Value				
Limit:	Frequenc	RM	IS 1MHz Limit (dBuV/m @		3MHz		Average Value Remark				
	30MHz-88M	40.0			Quasi-peak Value						
		88MHz-216MHz				Quasi-peak Value					
	216MHz-960		43.5 46.0			Quasi-peak Value					
		960MHz-1GHz				Quasi-peak Value					
	Above 1CI	Above 1GHz				Average Value					
						Peak Value					
Test setup:	Below 1GHz										



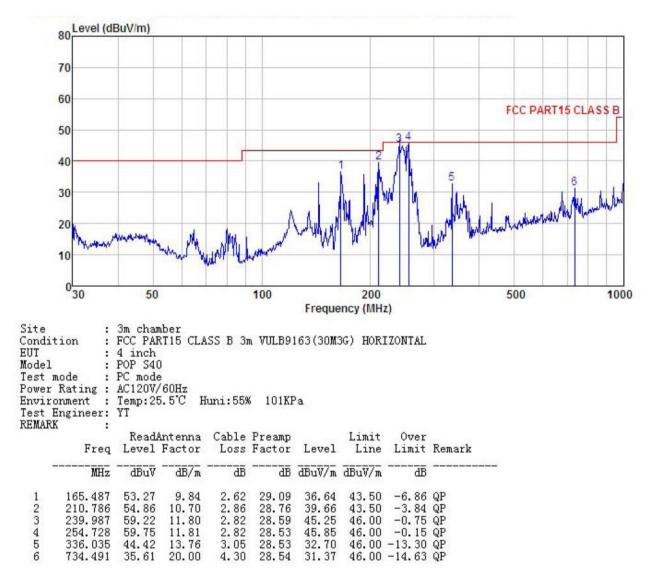
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above to ground at a 3 meter semi-anechoic camber. The table was rotated 36 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted 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 Specifie 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 10d 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 ware the niose floor , which were no recorded									



Measurement Data:

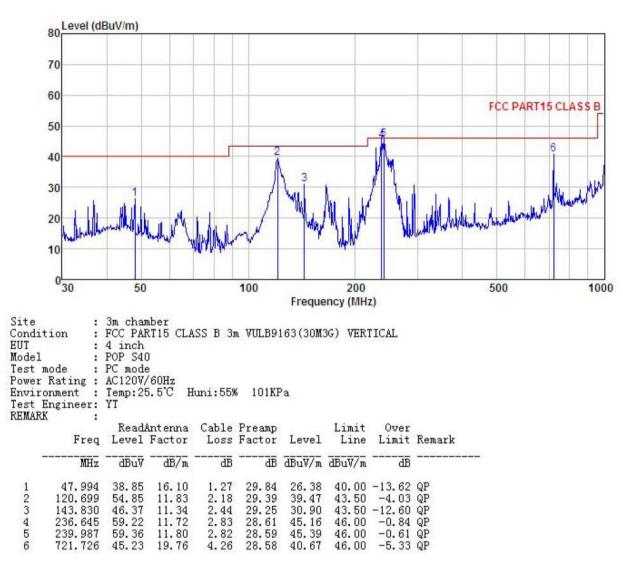
Below 1GHz

Horizontal:





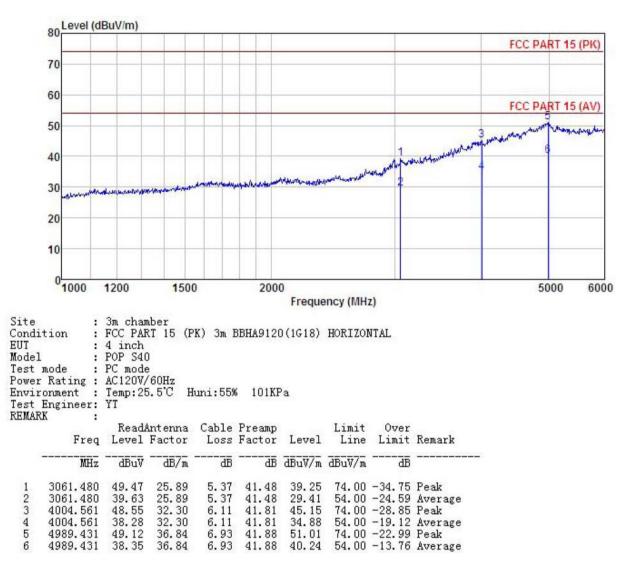
Vertical:





Above 1GHz

Horizontal:





<u>CCIS</u>

Vertical:

