



FCC PART 15 B

TEST REPORT

For

Interglobe Connection Corp

8228 NW 30th Terrace, Doral, Florida, United States, 33122

FCC ID: 2AC7ISOLEC200N

Report Type:		Product Type:
Original Report		Mobile Phone
Report Number:	RDG181211007-	00A
Report Date:	2019-05-05	
Reviewed By:	Jerry Zhang EMC Manager	Jerry Zhang
Test Laboratory:	No.69 Pulongcun	358891

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TABLE OF CONTENTS

GENERAL INFORMATION	
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	
OBJECTIVE	
RELATED SUBMITTAL(S)/GRANT(S)	
TEST METHODOLOGY	
MEASUREMENT UNCERTAINTY	
TEST FACILITY	
SYSTEM TEST CONFIGURATION	5
DESCRIPTION OF TEST CONFIGURATION	5
EUT Exercise Software	5
Equipment Modifications	
LOCAL SUPPORT EQUIPMENT LIST AND DETAILS	5
SUPPORT CABLE LIST AND DETAILS	
CONFIGURATION OF TEST SETUP	
SUMMARY OF TEST RESULTS	7
FCC§15.107 - CONDUCTED EMISSIONS	8
EUT SETUP	
EUT SETUP EMI Test Receiver Setup	8
EMI TEST RECEIVER SETUP Test Equipment List and Details Test Procedure	
EMI TEST RECEIVER SETUP Test Equipment List and Details Test Procedure Corrected Amplitude & Margin Calculation	
EMI TEST RECEIVER SETUP Test Equipment List and Details Test Procedure	
EMI TEST RECEIVER SETUP Test Equipment List and Details Test Procedure Corrected Amplitude & Margin Calculation	
EMI TEST RECEIVER SETUP TEST EQUIPMENT LIST AND DETAILS TEST PROCEDURE CORRECTED AMPLITUDE & MARGIN CALCULATION TEST RESULTS SUMMARY	
EMI TEST RECEIVER SETUP TEST EQUIPMENT LIST AND DETAILS TEST PROCEDURE CORRECTED AMPLITUDE & MARGIN CALCULATION TEST RESULTS SUMMARY TEST DATA	
EMI TEST RECEIVER SETUP TEST EQUIPMENT LIST AND DETAILS TEST PROCEDURE CORRECTED AMPLITUDE & MARGIN CALCULATION TEST RESULTS SUMMARY TEST DATA FCC §15.109 - RADIATED SPURIOUS EMISSIONS	
EMI TEST RECEIVER SETUP TEST EQUIPMENT LIST AND DETAILS TEST PROCEDURE CORRECTED AMPLITUDE & MARGIN CALCULATION TEST RESULTS SUMMARY TEST DATA FCC §15.109 - RADIATED SPURIOUS EMISSIONS EUT SETUP	
EMI TEST RECEIVER SETUP TEST EQUIPMENT LIST AND DETAILS TEST PROCEDURE CORRECTED AMPLITUDE & MARGIN CALCULATION TEST RESULTS SUMMARY TEST DATA FCC §15.109 - RADIATED SPURIOUS EMISSIONS EUT SETUP EMI TEST RECEIVER SETUP	
EMI TEST RECEIVER SETUP TEST EQUIPMENT LIST AND DETAILS TEST PROCEDURE CORRECTED AMPLITUDE & MARGIN CALCULATION TEST RESULTS SUMMARY TEST DATA FCC §15.109 - RADIATED SPURIOUS EMISSIONS EUT SETUP. EMI TEST RECEIVER SETUP TEST PROCEDURE	

GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

	EUT Name:	Mobile Phone
	EUT Model:	C200
Highest Operat	ion Frequency:	2480 MHz
Rated	Input Voltage:	DC3.7V from Battery or DC5V from adapter
Adapter	Input:	AC 100-240V, 50/60Hz
Information Output:		DC5V, 500mA
Exter	nal Dimension:	124mm(L)* 51mm(W)* 15 mm(H)
Serial Number:		181211007
EUT	Received Date:	2019-03-11

Objective

This test report is prepared on behalf of *Interglobe Connection Corp* in accordance with Part 2, Subpart J, and Part 15-Subparts A and B of the Federal Communications Commission's rules.

The objective of the manufacturer is to determine the compliance of EUT with FCC Part 15 B Class B.

Related Submittal(s)/Grant(s)

FCC Part 15C DSS submissions with FCC ID: 2AC7ISOLEC200N. FCC Part 22H, 24E PCE submissions with FCC ID: 2AC7ISOLEC200N.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Dongguan).

Measurement Uncertainty

Parameter	Measurement Uncertainty
Unwanted Emissions, radiated	30M~200MHz: 4.55 dB,200M~1GHz: 5.92 dB,1G~6GHz: 4.98 dB, 6G~18GHz: 5.89 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Temperature	±1°C
Humidity	±5%
AC Power Lines Conducted Emission	3.12 dB (150 kHz to 30 MHz)

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218, the FCC Designation No. : CN1220.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in downloading mode.

EUT Exercise Software

The software "Winthrax.exe" was used during test.

Equipment Modifications

No modification was made to the EUT tested.

Local Support Equipment List and Details

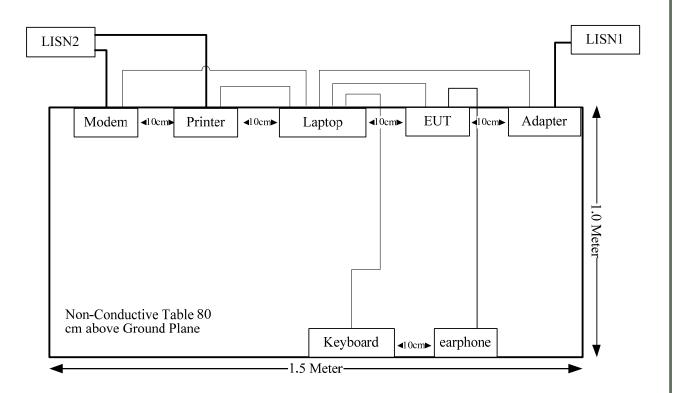
Manufacturer	Description	Model	Serial Number		
DELL	Laptop	PP11L	QDS-BRCM1017		
HP	Printer	C3941A	JPTVOB2337		
DELL	Keyboard	L100	CNORH656658907BL05DC		
SAST	Modem	AEM-2100	0293		

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
Serial Cable	yes	No	1.2	Serial Port of Laptop	Modem
Parallel Cable	yes	No	1.2	Parallel Port of Laptop	Printer
Keyboard Cable	yes	No	1.8	USB Port of Laptop	Keyboard
USB Cable	No	No	1.04	USB Port of Laptop	EUT
Earphone Cable	No	No	1.2	EUT	Headphone

Report No.: RDG181211007-00A

Configuration of Test Setup



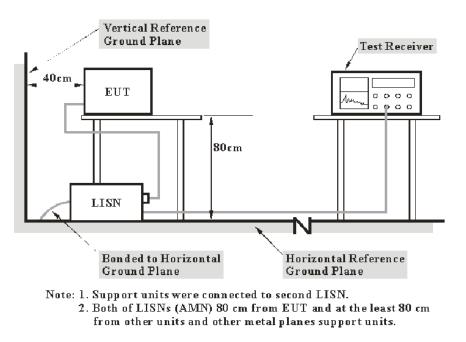
Page 6 of 19

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	Conducted Emissions	Compliance
§15.109	Radiated Emissions	Compliance

FCC§15.107 - CONDUCTED EMISSIONS

EUT Setup



The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15 B Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The adapter was connected to the Main LISN with 120V/60Hz AC power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Manufacturer	Description	Description Model		Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	101121	2019-03-23	2020-03-23
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-01	2018-09-05	2019-09-05
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A
R&S	Two-line V-network	ENV 216	101614	2018-12-10	2019-12-10
R&S	L.I.S.N	ESH2-Z5	892107/021	2018-09-19	2019-09-19

Test Equipment List and Details

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed traceable to National Primary Standards and International System of Units (SI).

Test Procedure

During the conducted emission test, the adapter of laptop was connected to the outlet of the first LISN and the other support equipments were connected to the outlet of the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

 $V_C = V_R + A_C + VDF$

Herein, V_C: corrected voltage amplitude

V_R: reading voltage amplitude

A_c: attenuation caused by cable loss

VDF: voltage division factor of AMN or ISN

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15 B Class B.

Test Data

Environmental Conditions

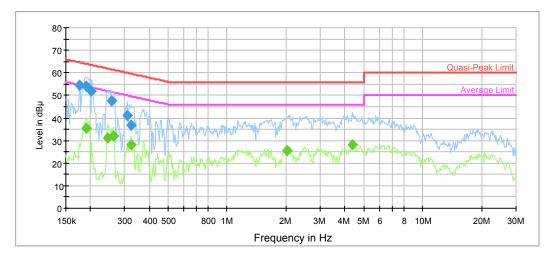
Temperature:	22.4 °C
Relative Humidity:	45 %
ATM Pressure:	101.3 kPa

The testing was performed by Lily Xie on 2019-03-28

Report No.: RDG181211007-00A

Test Mode: Downloading

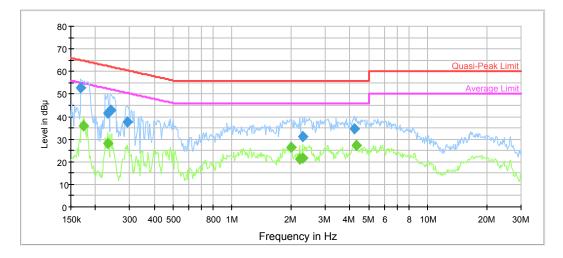
AC120V, 60Hz, Line:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.175915	54.7	9.000	L1	10.8	10.0	64.7
0.190505	54.1	9.000	L1	10.7	9.9	64.0
0.203045	52.0	9.000	L1	10.6	11.5	63.5
0.255827	47.7	9.000	L1	10.3	13.9	61.6
0.309742	41.2	9.000	L1	10.1	18.8	60.0
0.322331	36.7	9.000	L1	10.1	22.9	59.6

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.190505	35.4	9.000	L1	10.7	18.6	54.0
0.245835	31.3	9.000	L1	10.3	20.6	51.9
0.262017	31.8	9.000	L1	10.3	19.6	51.4
0.322331	28.1	9.000	L1	10.1	21.5	49.6
2.030886	25.4	9.000	L1	9.7	20.6	46.0
4.364119	28.2	9.000	L1	9.8	17.8	46.0

AC120V, 60Hz, Neutral:



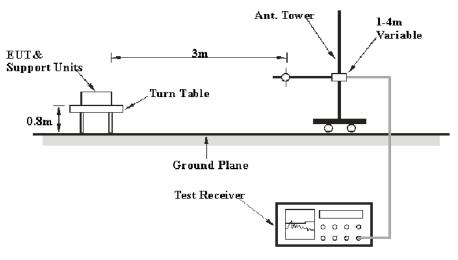
Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.169044	52.8	9.000	Ν	10.9	12.2	65.0
0.230654	41.5	9.000	Ν	10.4	20.9	62.4
0.240029	42.8	9.000	N	10.4	19.3	62.1
0.290613	37.5	9.000	Ν	10.2	23.0	60.5
2.288725	31.3	9.000	Ν	9.8	24.7	56.0
4.227217	34.5	9.000	Ν	9.8	21.5	56.0

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.173134	35.8	9.000	Ν	10.9	19.0	54.8
0.232499	28.1	9.000	N	10.4	24.3	52.4
1.998778	26.4	9.000	Ν	9.8	19.6	46.0
2.216927	21.4	9.000	Ν	9.8	24.6	46.0
2.288725	21.5	9.000	Ν	9.8	24.5	46.0
4.295123	27.1	9.000	Ν	9.8	18.9	46.0

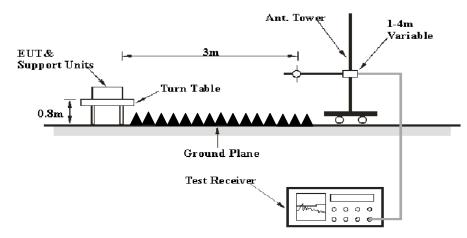
FCC §15.109 - RADIATED SPURIOUS EMISSIONS

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed in the 10 meters chamber test site for the range 30MHz to 1GHz and the 3 meters chamber test site A for above 1GHz, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 Class B limits.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 13.0 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	Reduced VBW	/	AVG

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Test Procedure

During the radiated emissions, the adapter of laptop was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The data was recorded in the Quasi-peak detection mode for below 1 GHz, peak and average detection mode above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100035	2018-08-03	2019-08-03
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
Sunol Sciences	Antenna	JB3	A060611-3	2017-07-21	2019-07-21
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2018-09-05	2019-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-02	2018-09-05	2019-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2018-09-24	2019-09-24
Sonoma	Amplifier	310N	185914	2018-10-13	2019-10-13
R&S	Spectrum Analyzer	FSP 38	100478	2018-12-10	2019-12-10
TDK RF	Horn Antenna	HRN-0118	130 084	2018-10-12	2021-10-12
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2018-09-05	2019-09-05
MICRO-COAX	Coaxial Cable	UFA147-1-2362-10 0100	64639 231029-001	2019-02-24	2020-02-24

Test Equipment List and Details

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	22.4~24.5 °C
Relative Humidity:	46~57%
ATM Pressure:	101.3~101.4kPa

* The testing was performed by Neil Liao & Vito Chen on 2019.03.12~2019.3.13.

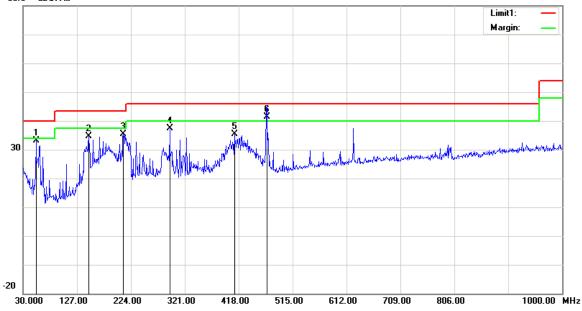
Test Result: Compliance

Test Mode: Downloading

1) Below 1GHz:

Horizontal

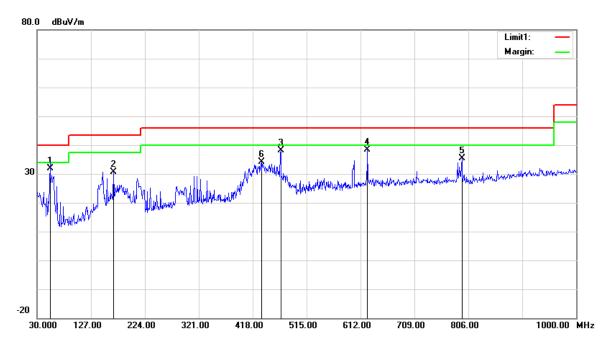
80.0 dBuV/m



Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
53.2800	49.17	peak	-15.95	33.22	40.00	6.78
148.3400	44.09	peak	-9.49	34.60	43.50	8.90
210.4200	46.81	peak	-11.45	35.36	43.50	8.14
293.8400	45.13	peak	-7.70	37.43	46.00	8.57
410.2400	40.21	peak	-4.92	35.29	46.00	10.71
468.4400	45.39	QP	-3.99	41.40	46.00	4.60

Report No.: RDG181211007-00A

Vertical

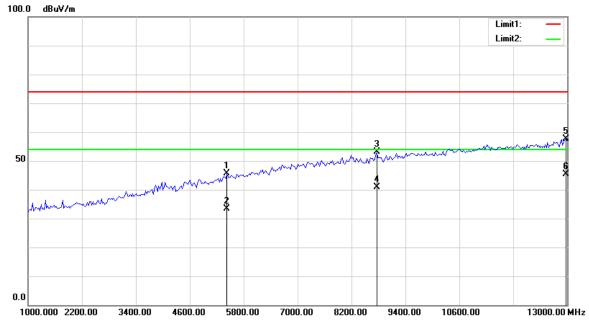


Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
53.2800	47.85	QP	-15.95	31.90	40.00	8.10
167.7400	40.45	peak	-9.70	30.75	43.50	12.75
468.4400	42.20	peak	-3.99	38.21	46.00	7.79
624.6100	39.12	peak	-0.72	38.40	46.00	7.60
794.3600	34.23	peak	1.15	35.38	46.00	10.62
433.5200	38.58	peak	-4.56	34.02	46.00	11.98

Report No.: RDG181211007-00A

2) Above 1GHz:

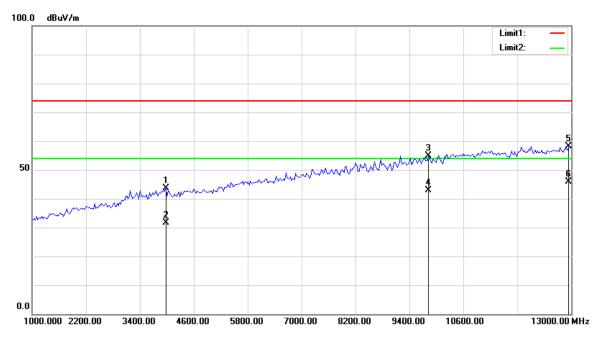
Horizontal



Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5424.850	36.48	peak	9.04	45.52	74.00	28.48
5424.850	24.29	AVG	9.04	33.33	54.00	20.67
8767.535	38.37	peak	14.76	53.13	74.00	20.87
8767.535	26.14	AVG	14.76	40.90	54.00	13.10
12975.952	36.92	peak	20.60	57.52	74.00	16.48
12975.952	24.83	AVG	20.60	45.43	54.00	8.57

Report No.: RDG181211007-00A

Vertical



Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
3981.964	38.21	peak	5.41	43.62	74.00	30.38
3981.964	26.11	AVG	5.41	31.52	54.00	22.48
9825.651	38.58	peak	16.29	54.87	74.00	19.13
9825.651	26.48	AVG	16.29	42.77	54.00	11.23
12951.904	37.48	peak	20.67	58.15	74.00	15.85
12951.904	25.16	AVG	20.67	45.83	54.00	8.17

****END OF REPORT****