



## FCC PART 15 CLASS B TEST REPORT

For  
**CDM MIAMI INC**

1825 NW 112<sup>th</sup> AVE, UNIT 158, MIAMI, FL 33172

**FCC ID: ZZRTM0723**

<b>Report Type:</b> Original Report	<b>Product Type:</b> GSM Mobile Phone
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<b>Report Number:</b> <u>RSZ120605001-00A</u>	
<b>Report Date:</b> <u>2012-06-18</u>	
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**Note:** This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. This report **must not** be used by the customer to claim product certification, approval, or endorsement by NVLAP\*, or any agency of the Federal Government.

\* This report contains data that are not covered by the NVLAP accreditation and are marked with an asterisk “★” (Rev.2)

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## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

The *CDM MIAMI INC*'s product, model number: *FIESTA (FCC ID: ZZRTM0723)* or the "EUT" in this report was a *GSM Mobile Phone*, which was measured approximately: 11.2 cm (L) x 5.8 cm (W) x 1.2 cm (H), rated input voltage: DC 3.7 V Li-ion battery or DC 5V charging from adapter.

Adapter information:

Input: AC 100-240V, 50/60Hz, 0.1A;

Output: DC 5.0V, 500mA

*Note: The product, model FIESTA, N700, LUMINUM, N800, they are electrically identical, only different in model No. and appearance color. Model FIESTA was selected for full testing, which was explained for details in the attached declaration letter.*

*\* All measurement and test data in this report was gathered from production sample serial number: 1206013 (Assigned by BACL, Shenzhen). The EUT was received on 2012-06-05.*

### Objective

This test report is prepared on behalf of *CDM MIAMI INC* in accordance with Part 2-Subpart J, Part 15-Subparts A and B of the Federal Communication Commissions rules.

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

### Related Submittal(s)/Grant(s)

Part 22H/24E PCE and Part 15.247 DSS submissions with FCC ID: ZZRTM0723

### Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is an ISO/IEC 17025 accredited laboratory, and is accredited by National Voluntary Laboratory Accredited Program (Lab Code 200707-0).



The current scope of accreditations can be found at <http://ts.nist.gov/Standards/scopes/2007070.htm>.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

The system was configured for testing in a manufacturer testing fashion.

Test mode: data transmit with Computer

### EUT Exercise Software

“winthrax” exercise software was used.

### Equipment Modifications

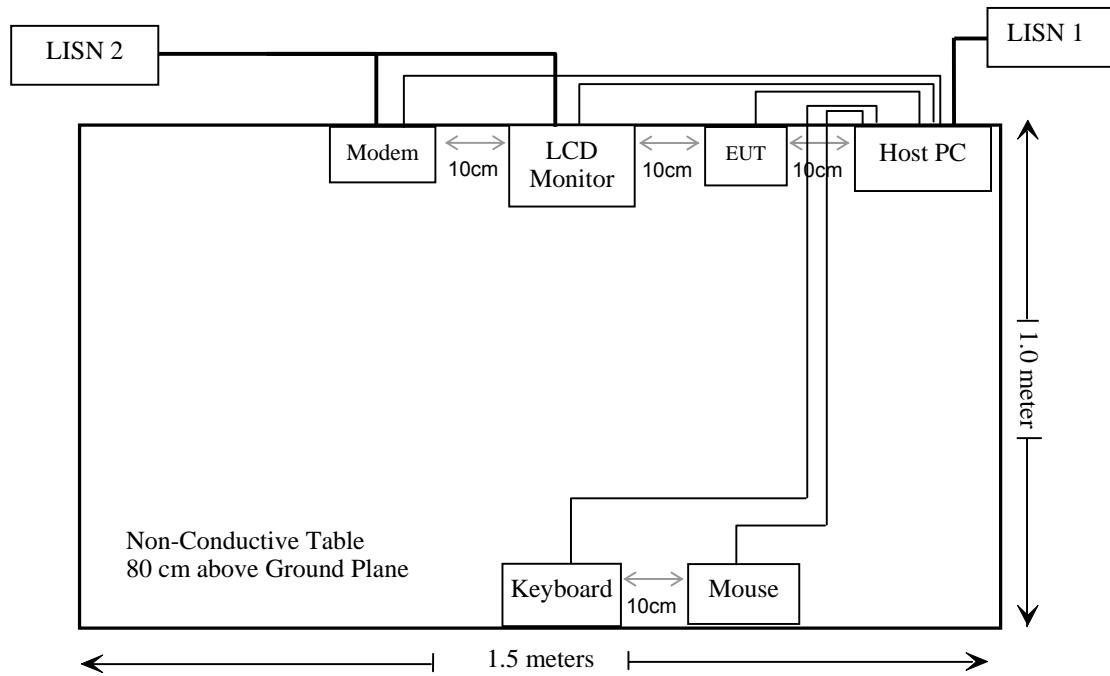
No modification was made to the EUT tested.

### Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
DELL	PC	VOSTRO 220S	127BP2X
DELL	Keyboard	L100	CNORH656658907BL05DC
DELL	Mouse	MOC5UO	G1900NKD
DELL	LCD Monitor	E178WFPC	CN-OWY564-64180-7C4-2SQH
SAST	Modem	AEM-2100	0293

### External I/O Cable

Cable Description	Length (m)	From/Port	To
Shielded Detachable USB Cable	1.5	Host PC	Mouse
Shielded Detachable Serial Cable	1.5	Host PC	Modem
Shielded Detachable K/B Cable	1.5	Host PC	Keyboard
Shielded Detachable VGA Cable	1.8	Host PC	LCD Monitor
Unshielded Detachable USB Cable	0.8	EUT	Host PC

**Block Diagram of Test Setup**

## **SUMMARY OF TEST RESULTS**

<b>FCC Rules</b>	<b>Description of Test</b>	<b>Results</b>
§15.107	AC Line Conducted Emissions	Compliance
§15.109	Radiated Spurious Emissions	Compliance

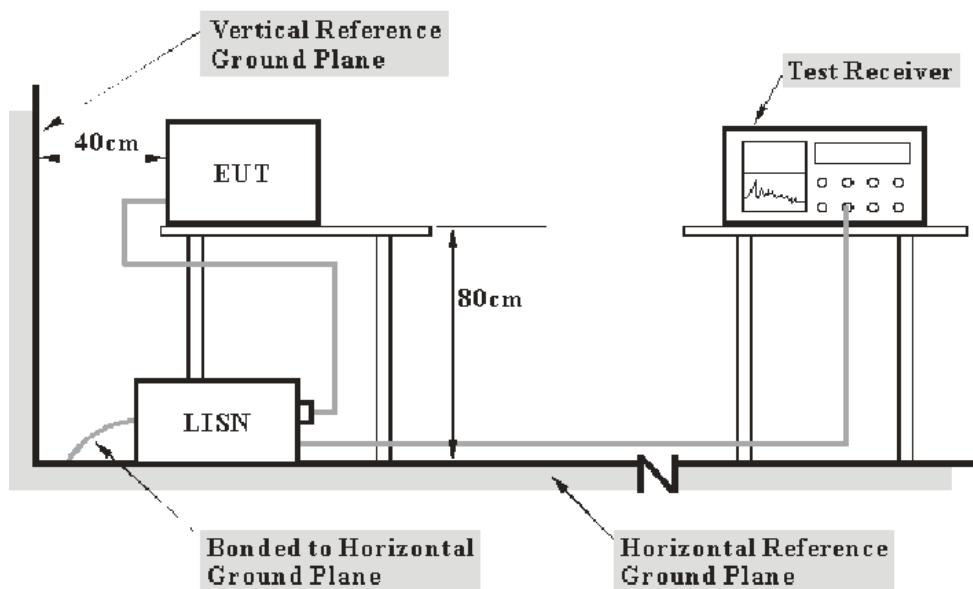
## FCC §15.107 – AC LINE CONDUCTED EMISSIONS

### Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on CISPR 16-4-2, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is 2.4 dB.(k=2, 95% level of confidence)

### EUT Setup



**Note:** 1. Support units were connected to second LISN.  
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2009 measurement procedure. The specification used was with the FCC Part 15.107 Class B limits.

The spacing between the peripherals was 10 cm.

For downloading mode, the host PC was connected to a 120 VAC/60 Hz 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:

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

## Test Procedure

During the conducted emission test, the adaptor or host PC was connected to the outlet of the first LISN, and the other relevant equipments were connected to 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.

## Test Equipment List and Details

<b>Manufacturer</b>	<b>Description</b>	<b>Model</b>	<b>Serial Number</b>	<b>Calibration Date</b>	<b>Calibration Due Date</b>
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2011-11-24	2012-11-23
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2011-11-17	2012-11-16
Com-Power	L.I.S.N.	LI-200	12005	N/A	N/A
Com-Power	L.I.S.N.	LI-200	12208	N/A	N/A
Rohde & Schwarz	Pulse limiter	ESH3Z2	DE25985	2011-07-08	2012-07-07

\* **Statement of Traceability:** Bay Area Compliance Laboratory Corp. attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

## Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.107, with the worst margin reading of:

**11.33 dB at 9.650 MHz** in the **Neutral** conducted mode for downloading mode

## Test Data

### Environmental Conditions

<b>Temperature:</b>	25 °C
<b>Relative Humidity:</b>	56 %
<b>ATM Pressure:</b>	100.0 kPa

*The testing was performed by Tiger Ye on 2012-05-19.*

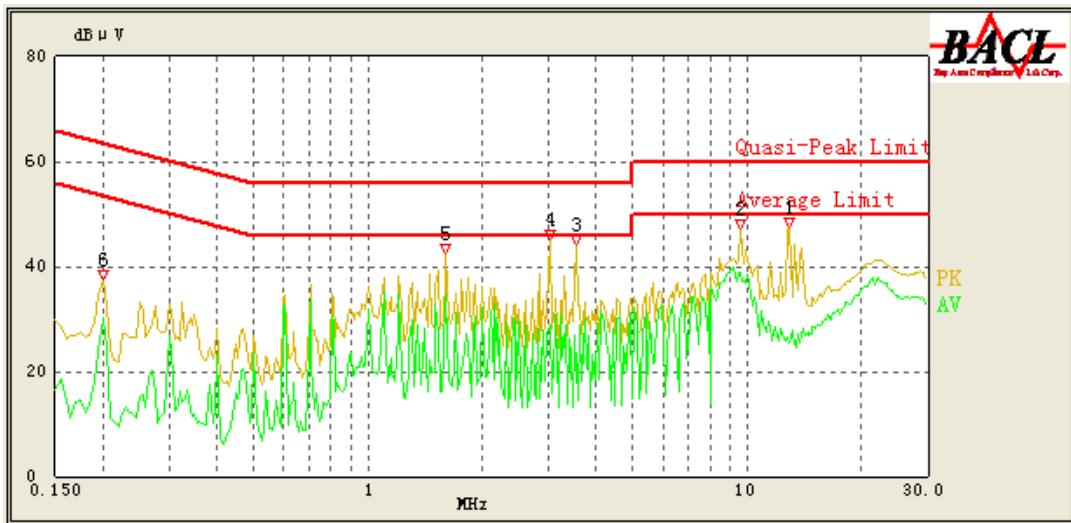
*EUT Operation Mode: Downloading (data transmits with Computer)*

**AC 120V/60 Hz, Line**



Frequency (MHz)	Corrected Amplitude (dB $\mu$ V)	Correction Factor (dB)	Limit (dB $\mu$ V)	Margin (dB)	Detector (PK/Ave./QP)
1.610	32.31	9.80	46.00	13.69	Ave.
0.200	40.45	9.60	54.57	14.12	Ave.
1.610	39.76	9.80	56.00	16.24	QP
0.300	33.82	9.60	51.71	17.89	Ave.
9.710	40.22	9.99	60.00	19.78	QP
9.655	30.06	9.99	50.00	19.94	Ave.
0.200	42.38	9.60	64.57	22.19	QP
3.020	23.34	9.80	46.00	22.66	Ave.
0.300	34.88	9.60	61.71	26.83	QP
3.015	26.52	9.80	56.00	29.48	QP
13.545	16.62	10.71	50.00	33.38	Ave.
13.545	23.78	10.71	60.00	36.22	QP

## AC 120V/60 Hz, Neutral



Frequency (MHz)	Corrected Amplitude (dB $\mu$ V)	Correction Factor (dB)	Limit (dB $\mu$ V)	Margin (dB)	Detector (PK/Ave./QP)
9.650	38.67	9.99	50.00	11.33	Ave.
1.610	34.59	9.80	46.00	11.41	Ave.
3.015	28.84	9.80	46.00	17.16	Ave.
1.610	37.13	9.80	56.00	18.87	QP
3.515	26.97	9.80	46.00	19.03	Ave.
0.200	30.27	9.60	54.57	24.30	Ave.
12.865	25.55	10.57	50.00	24.45	Ave.
0.200	38.94	9.60	64.57	25.63	QP
3.015	30.23	9.80	56.00	25.77	QP
3.555	27.24	9.80	56.00	28.76	QP
9.640	39.36	9.99	60.00	30.64	QP
12.915	29.33	10.58	60.00	30.67	QP

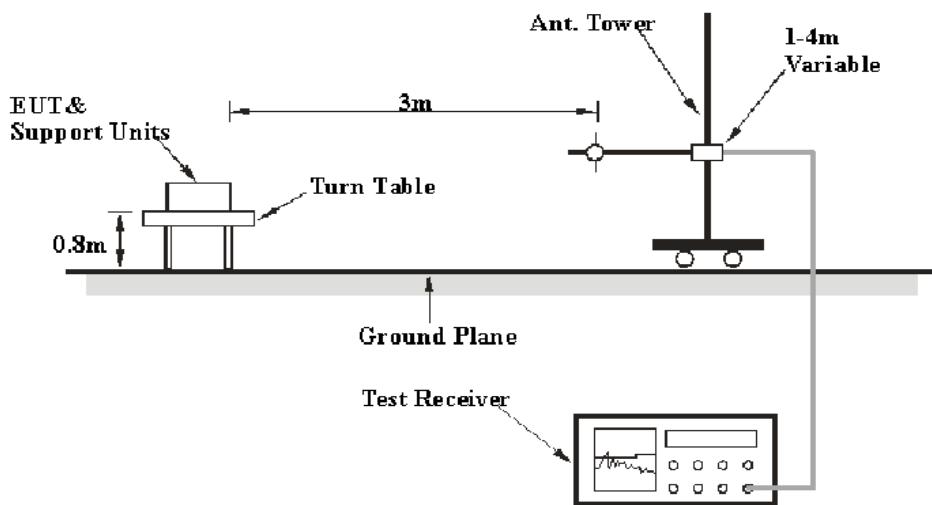
## FCC §15.109 - RADIATED SPURIOUS EMISSIONS

### Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on CISPR 16-4-2, the Treatment of Uncertainty in EMC Measurements, the estimation of the uncertainty of radiation emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is 4.0 dB. (k=2, 95% level of confidence)

### EUT Setup



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC Part 15.109 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 spacing between the peripherals was 10 cm.

The host PC was connected to a 120 VAC/60 Hz power source.

## EMI Test Receiver Setup

The system was investigated from 30 MHz to 1000 MHz.

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

<b>Frequency</b>	<b>RB/W</b>	<b>VB/W</b>	<b>IF B/W</b>	<b>Detection</b>
30 MHz-1 GHz	100 kHz	300 kHz	120 kHz	Quasi-peak

## Test Procedure

For the radiated emissions test, the host PC and relevant equipments were connected to AC floor outlet for downloading mode.

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

All the data was recorded in the Quasi-peak detection mode from 30 MHz to 1 GHz.

## Test Equipment List and Details

<b>Manufacturer</b>	<b>Description</b>	<b>Model</b>	<b>Serial Number</b>	<b>Calibration Date</b>	<b>Calibration Due Date</b>
HP	Amplifier	HP8447E	1937A01046	2011-11-24	2012-11-23
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2011-11-17	2012-11-16
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2011-11-28	2012-11-27

**\* Statement of Traceability:** Bay Area Compliance Laboratories Corp (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

## 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:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

## Test Results Summary

According to the data in the following table, the EUT complied with the FCC §15.109 Class B, with the worst margin reading of:

**5.1 dB at 43.097000 MHz in the Vertical polarization**

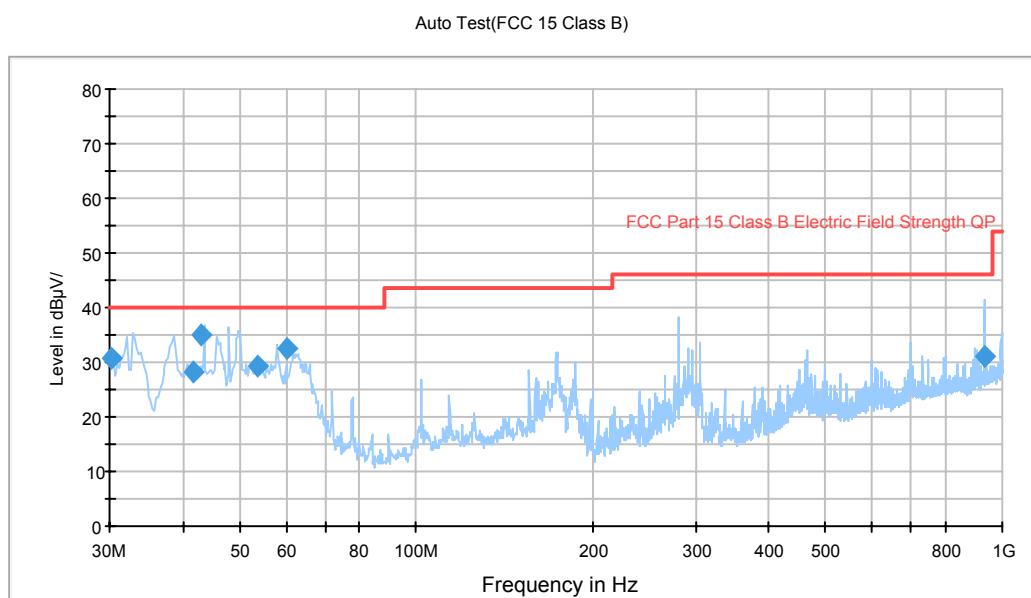
## Test Data

### Environmental Conditions

<b>Temperature:</b>	25 °C
<b>Relative Humidity:</b>	56 %
<b>ATM Pressure:</b>	100.0 kPa

The testing was performed by Tiger Ye on 2012-05-19.

EUT Operation Mode: Downloading (data transmits with Computer)



Frequency (MHz)	Corrected Amplitude (dBμV/m)	Antenna		Turntable Position (degree)	Correction Factor (dB)	Limit (dBμV/m)	Margin (dB)
		Height (cm)	Polarity (H/V)				
43.097000	34.9	102.0	V	298.0	-14.0	40.0	5.1
59.998500	32.7	104.0	V	0.0	-18.7	40.0	7.3
30.343375	30.7	225.0	V	4.0	-5.6	40.0	9.3
53.737250	29.3	171.0	V	51.0	-17.8	40.0	10.7
41.699500	28.1	225.0	V	116.0	-13.2	40.0	11.9
932.976750	31.2	125.0	H	304.0	0.2	46.0	14.8

## **PRODUCT SIMILARITY DECLARATION LETTER**



CDM MIAMI INC  
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MIAMI FL, 33172  
TEL: 305 477 6433  
FAX: 305 477 6432

2012-6-18

### **Product Similarity Declaration**

To Whom It May Concern,

We, CDM MIAMI INC. hereby declare that our GSM Mobile Phone, Trade Mark: FUN, Model Number: N700 , LUMINUM , N800 are electrically identical with the FIESTA that was certified by BACL. They are just different in model number and appearance design in terms of housing colors due to marketing purposes.

Please contact me if you have any question.

Signature: *Dennis Tang*

DENNIS TANG  
Marketing Director

**\*\*\*\*\* END OF REPORT \*\*\*\*\***