

**FCC PART 15B, CLASS B
TEST REPORT**

For

Enet Times Technology Co., Ltd.

Unit24F, Block C, World Trade Plaza, Fuhong Road,
Shenzhen, Guangdong, China

FCC ID: YZQDG600

Report Type: Original Report	Product Type: GSM Dual Sim Dual Standby Mobile Phone
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Report Number: RSZ111104003-00c	
Report Date: 2011-11-28	
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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 *Enet Times Technology Co., Ltd.*'s product, model number: *DG600 (FCC ID: YZQDG600)* or the "EUT" in this report was a *GSM Dual Sim Dual Standby Mobile Phone*, which was measured approximately: 11.2 cm (L) x 5.8 cm (W) x 1.1 cm (H), rated input voltage: DC 3.7 V battery or DC 5V adapter.

Adapter information:

Model: ALVO SLIM

Input: AC 100-240 V, 50/60Hz, 0.15A

Output: DC 5.0V, 500mA

Note: The series product, model DG600 and ALVO SLIM, we select DG600 to perform full test items. The difference between them is the model number, which was explained in the attached declaration letter.

** All measurement and test data in this report was gathered from production sample serial number: 1111005 (Assigned by BACL, Shenzhen). The EUT was received on 2011-11-04.*

Objective

This report is prepared on behalf of *Enet Times Technology Co., Ltd.* 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 compliance with FCC Part 15 B.

Related Submittal(s)/Grant(s)

Part 22H/24E PCE and Part 15.247 DSS submission with FCC ID: YZQDG600

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.

EUT Exercise Software

No exercise software was used.

Equipment Modifications

No modification was made to the unit tested.

Local Support Equipment List and Details

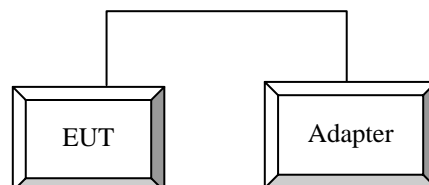
Manufacturer	Description	Model	Serial Number
DELL	Laptop	PP05L	7T390A02
ECOM	Modem	EM-56DEV	0552039725010789
HP	Printer	C4245A	CNZK112103

External I/O Cable

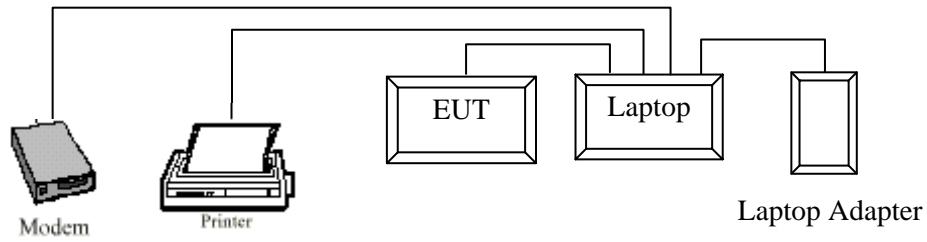
Cable Description	Length (m)	From/Port	To
Shielded Detachable Printer Cable	1.8	Laptop	Printer
Shielded Detachable Serial Cable	1.8	Laptop	Modem
Unshielded Detachable USB Cable	0.8	EUT	Laptop
Unshielded Detachable DC Cable	1.8	Adapter	LISN

Configuration of Test Setup

For charging & playing mode

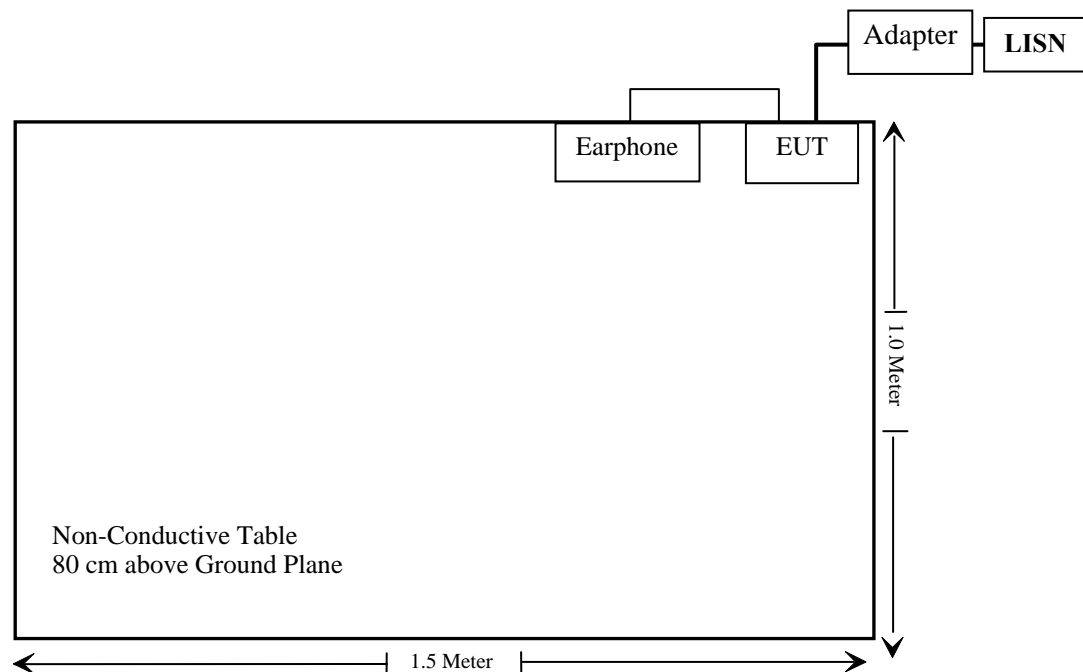


For downloading mode

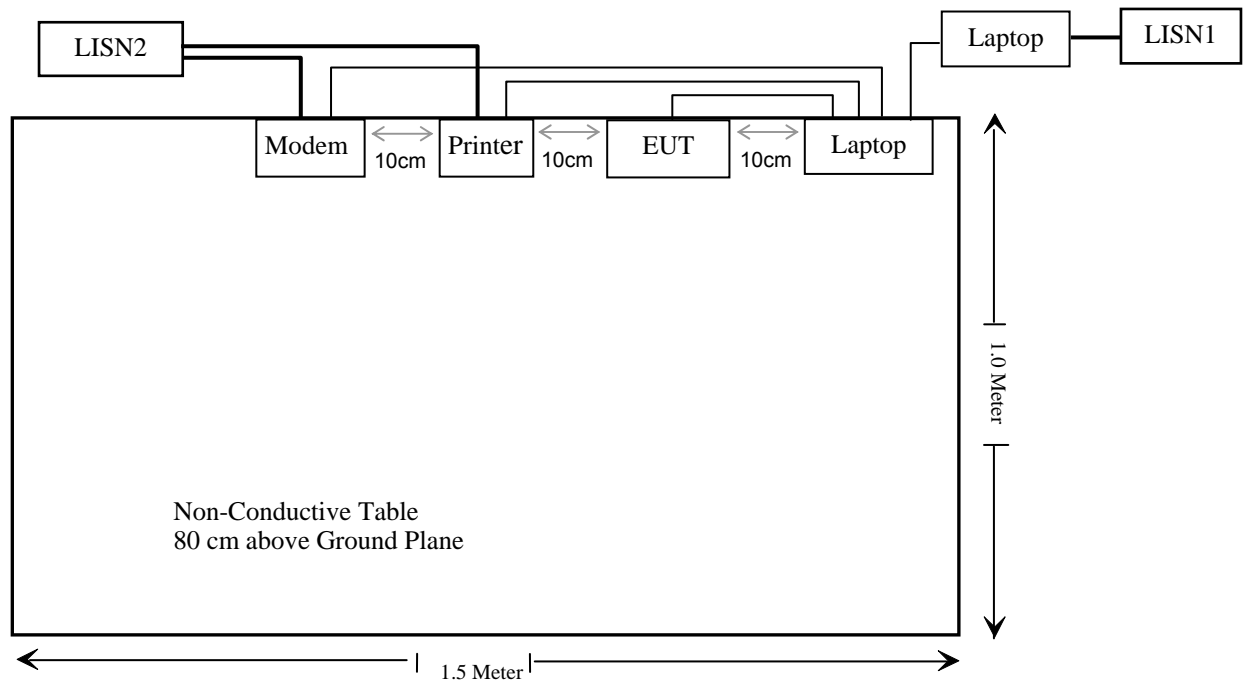


Block Diagram of Test Setup

For charging & playing mode



For downloading mode



SUMMARY OF TEST RESULTS

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

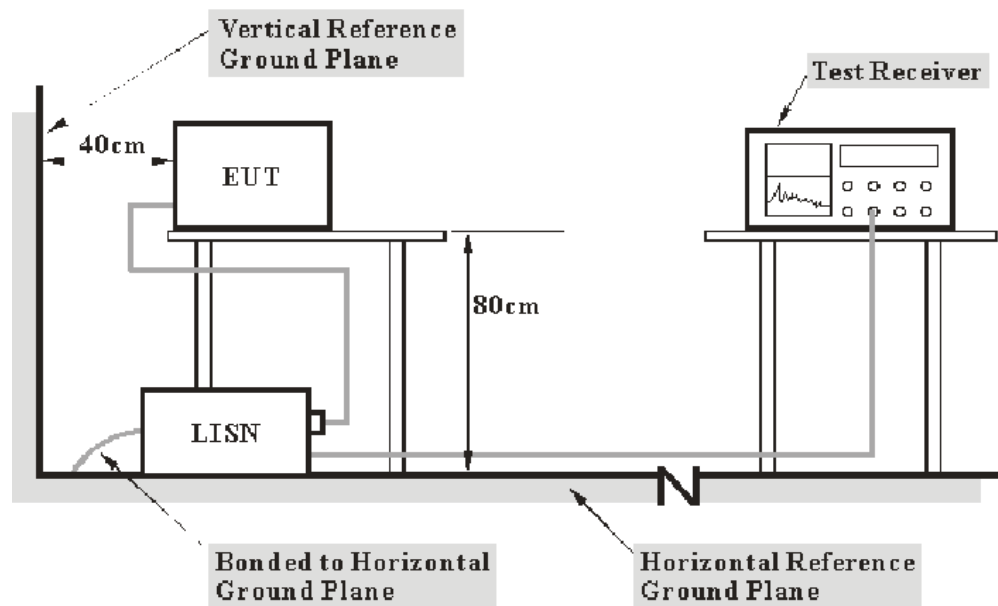
FCC §15.107 – AC LINE CONDUCTED EMISSIONS

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 NIS 81, 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.

The adapter 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:

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

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN, and the other relevant equipments were connected to the second LISN for downloading mode.

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

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	830245/006	2011-03-03	2012-03-02
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2011-03-09	2012-03-08

* **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:

10.89 dB at 0.965 MHz in the **Line** conducted mode for charging & playing mode

Test Data

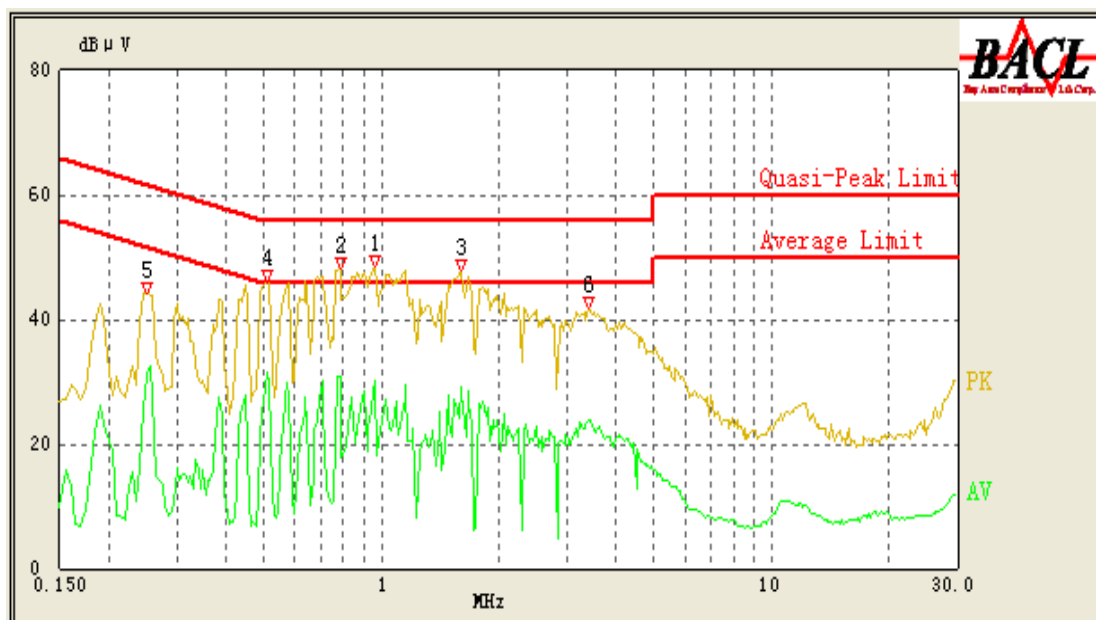
Environmental Conditions

Temperature:	25 °C
Relative Humidity:	48 %
ATM Pressure:	100.0 kPa

The testing was performed by Tiger Ye on 2011-11-18.

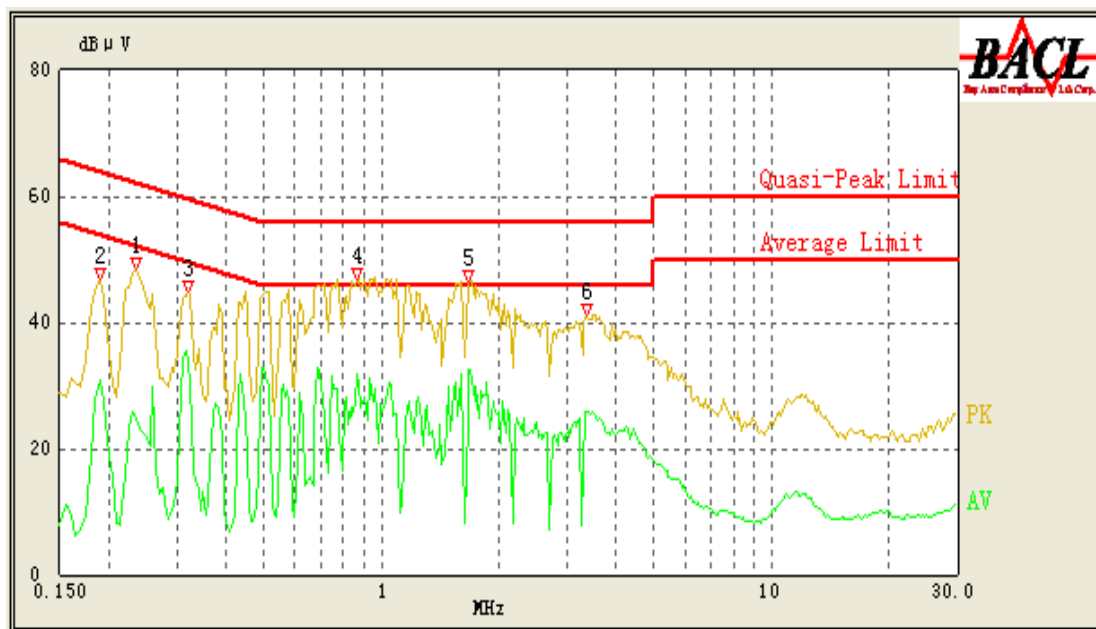
Test Mode: Charging & Playing

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.965	45.11	10.24	56.00	10.89	QP
0.510	42.41	10.23	56.00	13.59	QP
1.605	41.49	10.29	56.00	14.51	QP
0.510	31.41	10.23	46.00	14.59	Ave.
0.785	30.99	10.24	46.00	15.01	Ave.
0.965	30.25	10.24	46.00	15.75	Ave.
1.605	29.08	10.29	46.00	16.92	Ave.
3.405	35.06	10.46	56.00	20.94	QP
0.250	41.41	10.23	63.14	21.73	QP
3.400	23.96	10.46	46.00	22.04	Ave.
0.250	31.07	10.23	53.14	22.07	Ave.
0.785	31.73	10.24	56.00	24.27	QP

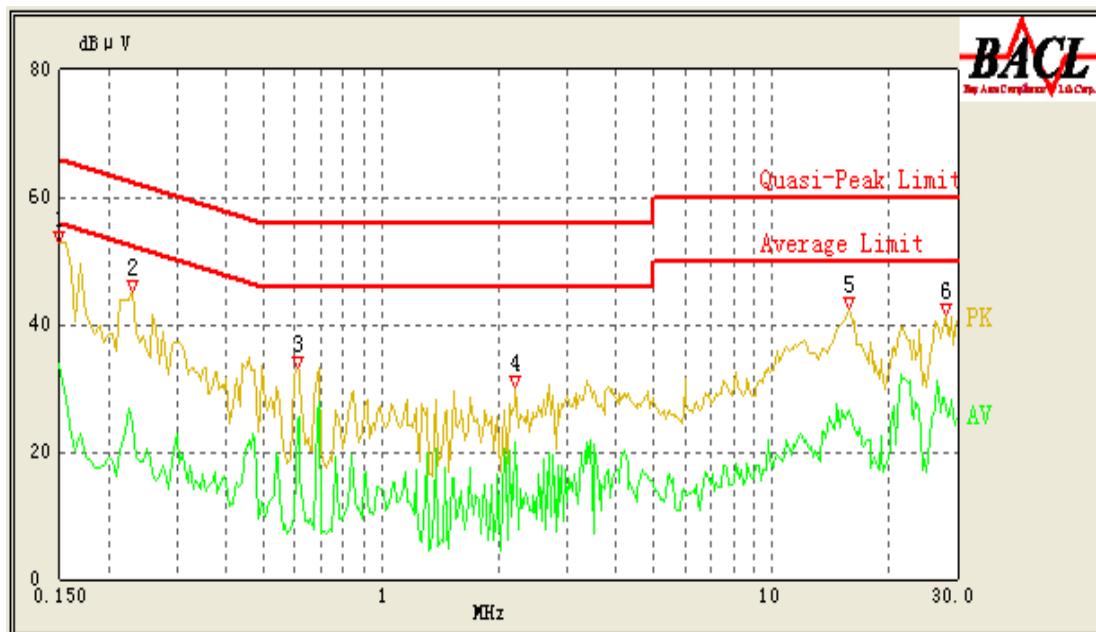
AC 120V/60 Hz, Neutral



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.870	44.81	10.24	56.00	11.19	QP
1.680	42.97	10.30	56.00	13.03	QP
1.675	32.62	10.30	46.00	13.38	Ave.
0.870	32.00	10.24	46.00	14.00	Ave.
0.320	33.84	10.23	51.14	17.30	Ave.
0.320	42.22	10.23	61.14	18.92	QP
3.360	25.78	10.45	46.00	20.22	Ave.
3.365	34.93	10.45	56.00	21.07	QP
0.235	41.53	10.23	63.57	22.04	QP
0.190	30.72	10.23	54.86	24.14	Ave.
0.190	39.01	10.23	64.86	25.85	QP
0.235	24.84	10.23	53.57	28.73	Ave.

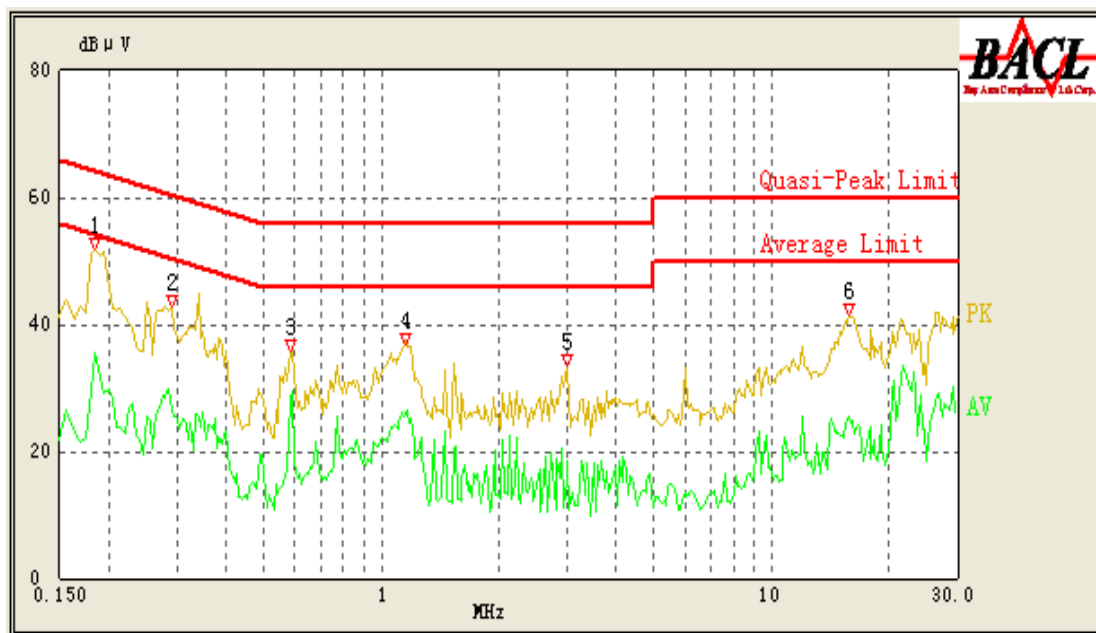
Test Mode: Downloading

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.610	24.71	10.23	46.00	21.29	Ave.
27.765	28.66	12.79	50.00	21.34	Ave.
0.150	33.80	10.23	56.00	22.20	Ave.
15.765	26.55	11.45	50.00	23.45	Ave.
15.765	36.29	11.45	60.00	23.71	QP
2.210	21.51	10.35	46.00	24.49	Ave.
0.610	30.01	10.23	56.00	25.99	QP
0.150	37.52	10.23	66.00	28.48	QP
0.230	24.54	10.23	53.71	29.17	Ave.
27.915	30.79	12.82	60.00	29.21	QP
2.210	22.43	10.35	56.00	33.57	QP
0.230	30.01	10.23	63.71	33.70	QP

AC 120V/60 Hz, Neutral



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.585	28.23	10.23	46.00	17.77	Ave.
0.185	35.64	10.23	55.00	19.36	Ave.
1.140	25.58	10.25	46.00	20.42	Ave.
0.185	42.79	10.23	65.00	22.21	QP
15.750	25.55	11.45	50.00	24.45	Ave.
0.290	26.50	10.23	52.00	25.50	Ave.
1.150	30.42	10.25	56.00	25.58	QP
0.585	30.03	10.23	56.00	25.97	QP
15.880	29.74	11.46	60.00	30.26	QP
2.990	15.04	10.42	46.00	30.96	Ave.
0.290	30.69	10.23	62.00	31.31	QP
2.990	21.85	10.42	56.00	34.15	QP

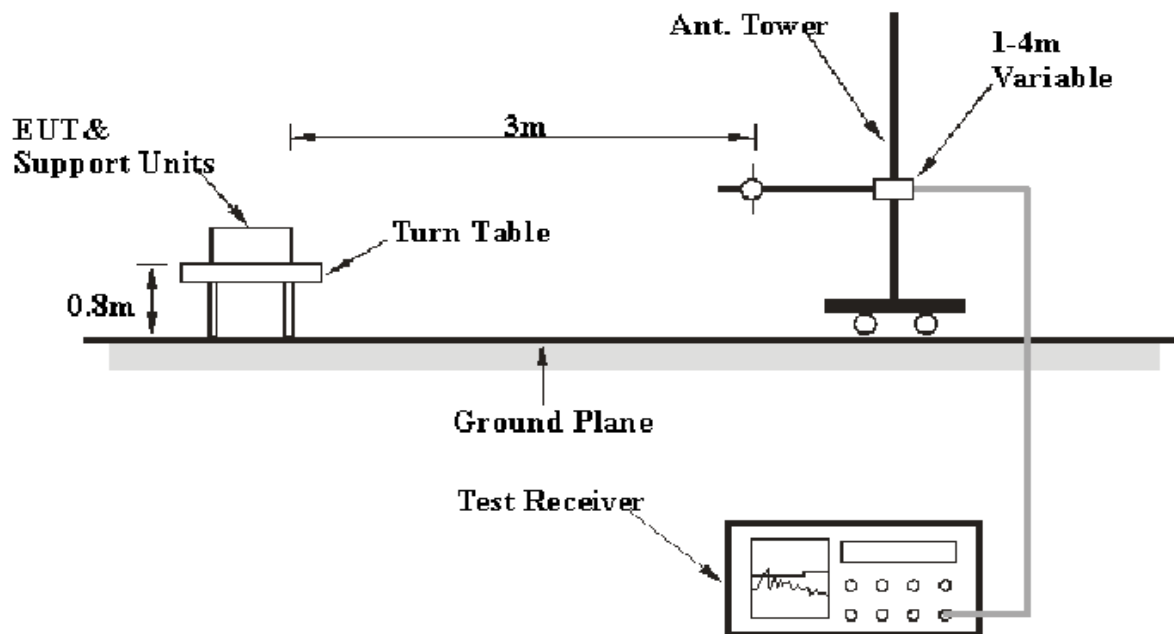
FCC §15.109 - RADIATED SPURIOUS EMISSIONS

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 NIS 81, 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 B 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 adapter 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:

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

Test Procedure

For the radiated emissions test, the adapter and relevant equipments were connected to AC floor outlet.

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

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	HP8447E	1937A01046	2011-08-02	2012-08-02
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2011-07-05	2012-07-04

* **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:

0.9 dB at 30.029125 MHz in the **Vertical** polarization for charging & playing mode

Test Data

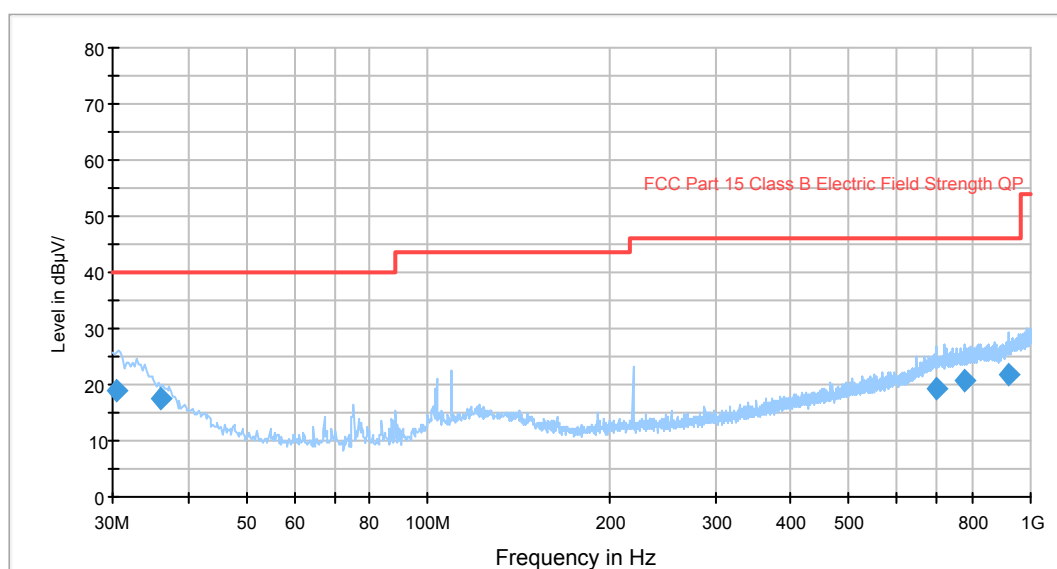
Environmental Conditions

Temperature:	25 °C
Relative Humidity:	48 %
ATM Pressure:	100.0 kPa

The testing was performed by Tiger Ye on 2011-11-18.

Test Mode: Charging & Playing

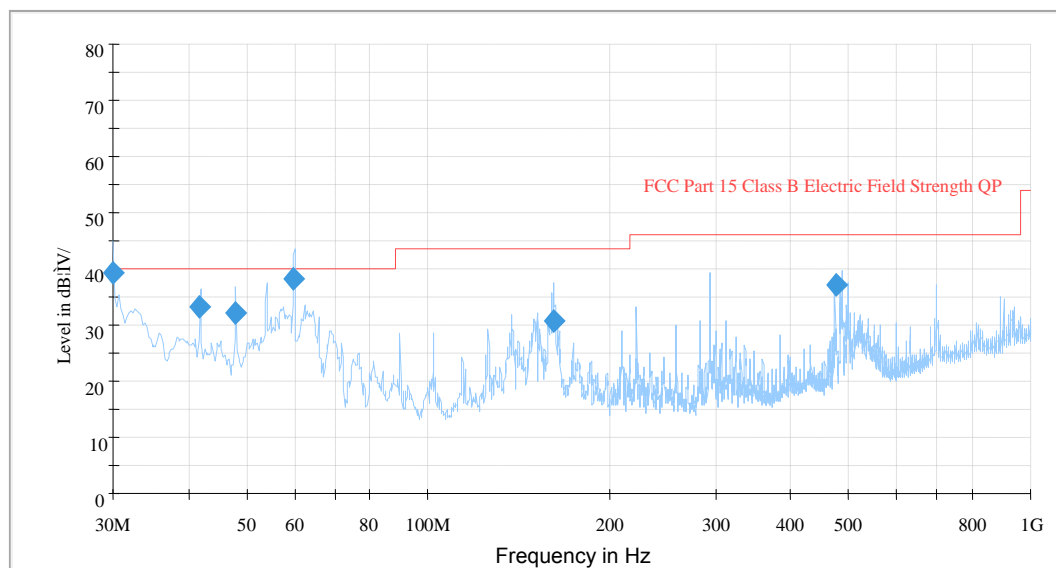
Auto Test(FCC 15 Class B)



Frequency (MHz)	Corrected Amplitude (dBμV/m)	Test Antenna		Turntable Position (degree)	Correction Factor (dB)	Limit (dBμV/m)	Margin (dB)
		Height (cm)	Polarity (H/V)				
30.468250	18.9	139.0	V	7.0	-5.7	40.0	21.1
36.035500	17.4	103.0	V	349.0	-9.5	40.0	22.6
917.002000	21.9	103.0	V	41.0	-0.2	46.0	24.1
777.107750	20.6	301.0	V	267.0	-2.1	46.0	25.4
695.617750	19.5	371.0	V	306.0	-3.2	46.0	26.5

Test Mode: Downloading

Auto Test(FCC 15 Class B)



Frequency (MHz)	Corrected Amplitude (dBμV/m)	Test Antenna		Turntable Position (degree)	Correction Factor (dB)	Limit (dBμV/m)	Margin (dB)
		Height (cm)	Polarity (H/V)				
30.029125	39.1	103.0	V	183.0	-5.4	40.0	0.9*
59.976750	38.2	103.0	V	45.0	-18.7	40.0	1.8*
47.990750	32.2	103.0	V	84.0	-16.4	40.0	7.8
41.401000	31.8	125.0	V	106.0	-13.0	40.0	8.2
161.627000	30.6	157.0	H	97.0	-14.4	43.5	12.9
480.854500	32.2	243.0	H	212.0	-8.6	46.0	13.8

*Within measurement uncertainty!

ANNEX A - PRODUCT SIMILARTITY DECLARATION LETTER



Enet Times Technology Co., LTD
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Date: 2011-11-18

Declaration of Similarity

To:
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<http://www.baclcorp.com.cn>

We, Enet Times Technology Co., LTD. hereby declare that our product: GSM Dual Sim Dual Standby Mobile Phone, Model: DG600 and ALVO SLIM. These two models are electrically and mechanically identical, share the same PCB Layout and components. And the differences between them are the model number. Model DG600 was tested by BACL.

Sincerely,

Will Zhu

General Manager

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