



FCC PART 15 CLASS B TEST REPORT

For

ITALCOM GROUP

1728 Coral Way, Coral Gables, Miami, Florida, United States

FCC ID: YPVITALCOMGIOX2

Product Type: Report Type: Original Report Mobile Phone Brown Lu **Test Engineer:** Brown Lu **Report Number:** RSZ120604002-00A **Report Date:** 2012-07-23 Sula Huang **Reviewed By:** RF Engineer **Test Laboratory:** Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F, the 3rd Phase of WanLi Industrial Building ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

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 " \bigstar " (Rev.2)

TABLE OF CONTENTS

GENERAL INFORMATION	3
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
Objective	
RELATED SUBMITTAL(S)/GRANT(S)	
TEST FACILITY	3
SYSTEM TEST CONFIGURATION	5
DESCRIPTION OF TEST CONFIGURATION	5
EUT Exercise Software	5
EQUIPMENT MODIFICATIONS	
SUPPORT EQUIPMENT LIST AND DETAILS	
External I/O Cable	
BLOCK DIAGRAM OF TEST SETUP	6
SUMMARY OF TEST RESULTS	7
FCC §15.107 – AC LINE CONDUCTED EMISSIONS	8
MEASUREMENT UNCERTAINTY.	
EUT SETUP	
EMI TEST RECEIVER SETUP.	
TEST PROCEDURE	
TEST F ROCEDORE TEST EQUIPMENT LIST AND DETAILS.	
TEST RESULTS SUMMARY	
Test Data	
FCC §15.109 - RADIATED SPURIOUS EMISSIONS	14
MEASUREMENT UNCERTAINTY	
EUT SETUP	
EMI TEST RECEIVER SETUP	
TEST PROCEDURE	
TEST EQUIPMENT LIST AND DETAILS.	
CORRECTED AMPLITUDE & MARGIN CALCULATION	15
TEST RESULTS SUMMARY	15
Trans	

Report No.: RSZ120604002-00A

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *ITALCOM GROUP*'s product, model number: Gio+x2 (*FCC ID: YPVITALCOMGIOX2*) or the "EUT" in this report was a *Mobile Phone*, which was measured approximately: 10.7 cm (L) x 6.1 cm (W) x 1.2 cm (H), rated input voltage: DC 3.7 V Li-ion battery or DC 5 V charging from adapter. The highest operating frequency is 104 MHz.

Report No.: RSZ120604002-00A

Adapter information MODELO: gio+x2

ENTRADA: 100-240 V_{CA} 50/60 Hz 0.15A

SALIDA: 5V_{CC} 500 mA

* All measurement and test data in this report was gathered from production sample serial number: 1206004 (Assigned by BACL, Shenzhen). The EUT was received on 2012-06-04.

Objective

This test report is prepared on behalf of *ITALCOM GROUP* 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: YPVITALCOMGIOX2

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.

FCC Part 15 B
Page 3 of 16

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).

Report No.: RSZ120604002-00A



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

FCC Part 15 B Page 4 of 16

SYSTEM TEST CONFIGURATION

Description of Test Configuration

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

EUT Exercise Software

"winthrax" exercise software was used for downloading test mode.

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

Report No.: RSZ120604002-00A

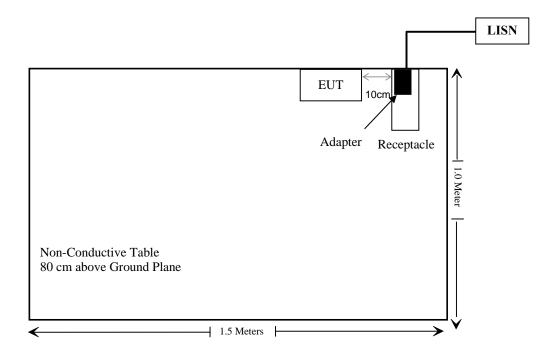
External I/O Cable

Cable Description	Length (m)	From/Port	То
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	1.0	EUT	Host PC

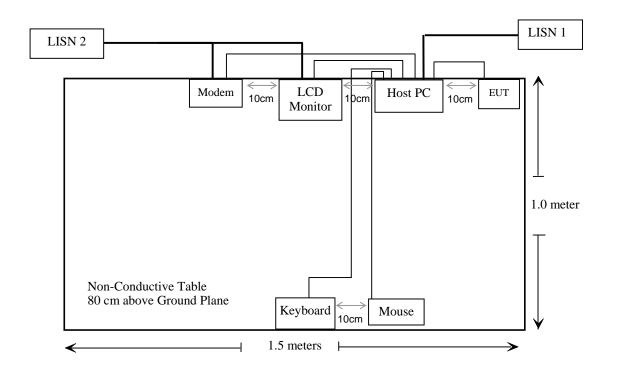
FCC Part 15 B Page 5 of 16

Block Diagram of Test Setup

Charging Mode



Downloading mode:



FCC Part 15 B Page 6 of 16

SUMMARY OF TEST RESULTS

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

Report No.: RSZ120604002-00A

FCC Part 15 B Page 7 of 16

FCC §15.107 – AC LINE CONDUCTED EMISSIONS

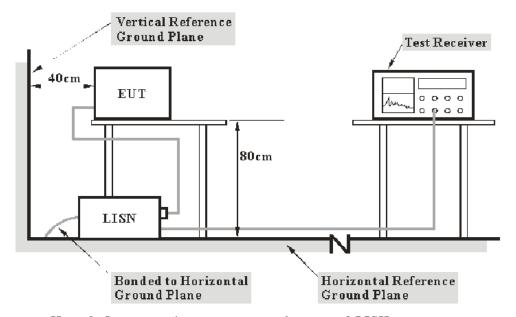
Measurement Uncertainty

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)

Report No.: RSZ120604002-00A

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 measurement procedure is according with ANSI C63.4-2009. The related limits were specified in FCC Part 15.107 Class B.

For charging mode, the adapter was connected to a 120 VAC/60 Hz power source.

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

FCC Part 15 B
Page 8 of 16

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:

Report No.: RSZ120604002-00A

Frequency Range	IF B/W
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

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
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
BACL	CE Test software	BACL-CE	V1.0	N/A	N/A

^{*} 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 <u>FCC Part 15.107</u>, with the worst margin reading of:

8.99 dB at 4.090 MHz in the Line conducted mode for charging mode

Test Data

Environmental Conditions

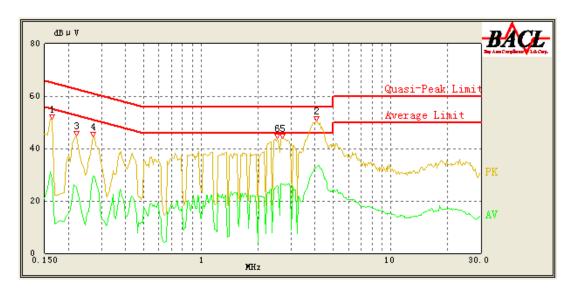
Temperature:	25 ℃
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

The testing was performed by Brown Lu on 2012-06-25.

FCC Part 15 B Page 9 of 16

EUT Operation Mode: Charging

AC 120 V, 60 Hz, Line:

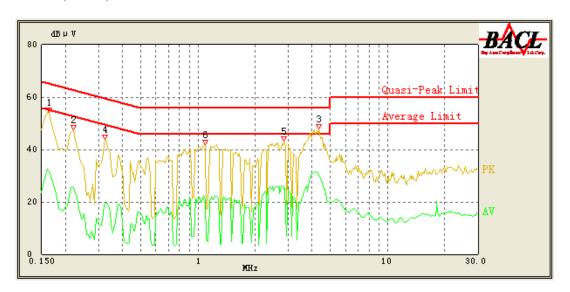


Report No.: RSZ120604002-00A

Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
4.090	47.01	9.97	56.00	8.99	QP
4.090	32.77	9.97	46.00	13.23	Ave.
0.165	48.61	9.67	65.57	16.96	QP
2.700	37.83	9.93	56.00	18.17	QP
2.540	37.57	9.92	56.00	18.43	QP
2.700	26.30	9.93	46.00	19.70	Ave.
2.535	25.77	9.92	46.00	20.23	Ave.
0.270	29.47	9.66	52.57	23.10	Ave.
0.270	38.81	9.66	62.57	23.76	QP
0.220	39.47	9.67	64.00	24.53	QP
0.165	28.52	9.67	55.57	27.05	Ave.
0.220	25.15	9.67	54.00	28.85	Ave.

FCC Part 15 B Page 10 of 16

AC 120V, 60 Hz, Neutral:



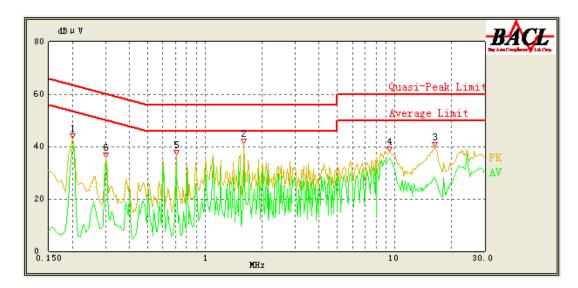
Report No.: RSZ120604002-00A

Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
4.360	42.84	9.97	56.00	13.16	QP
4.355	30.54	9.97	46.00	15.46	Ave.
0.165	49.28	9.64	65.57	16.29	QP
2.845	36.37	9.93	56.00	19.63	QP
1.090	36.10	9.87	56.00	19.90	QP
2.845	24.96	9.93	46.00	21.04	Ave.
0.325	39.81	9.65	61.00	21.19	QP
0.220	41.68	9.64	64.00	22.32	QP
0.165	31.86	9.64	55.57	23.71	Ave.
1.080	21.36	9.87	46.00	24.64	Ave.
0.220	25.48	9.64	54.00	28.52	Ave.
0.325	19.36	9.65	51.00	31.64	Ave.

FCC Part 15 B Page 11 of 16

EUT Operation Mode: Downloading (data transmits with Computer)

AC 120V/60 Hz, Line

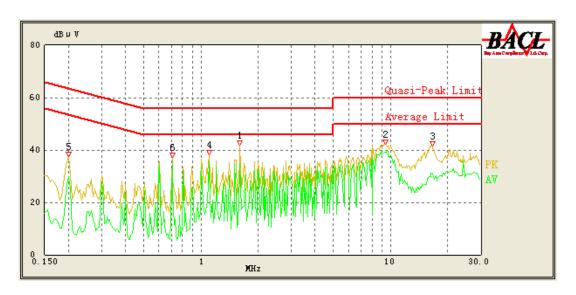


Report No.: RSZ120604002-00A

Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.705	34.18	9.76	46.00	11.82	Ave.
1.610	33.50	9.89	46.00	12.50	Ave.
0.200	40.35	9.67	54.57	14.22	Ave.
9.355	35.62	10.25	50.00	14.38	Ave.
0.300	33.89	9.66	51.71	17.82	Ave.
1.610	37.29	9.89	56.00	18.71	QP
0.705	35.25	9.76	56.00	20.75	QP
16.195	28.27	11.50	50.00	21.73	Ave.
0.200	41.19	9.67	64.57	23.38	QP
16.305	36.38	11.53	60.00	23.62	QP
9.355	35.90	10.25	60.00	24.10	QP
0.300	34.44	9.66	61.71	27.27	QP

FCC Part 15 B Page 12 of 16

AC 120V/60 Hz, Neutral



Report No.: RSZ120604002-00A

Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
1.105	35.65	9.87	46.00	10.35	Ave.
1.610	35.00	9.89	46.00	11.00	Ave.
9.455	38.94	10.26	50.00	11.06	Ave.
0.705	34.51	9.76	46.00	11.49	Ave.
1.610	37.99	9.89	56.00	18.01	QP
16.595	30.72	11.50	50.00	19.28	Ave.
1.105	35.66	9.87	56.00	20.34	QP
9.355	39.48	10.25	60.00	20.52	QP
0.705	34.97	9.76	56.00	21.03	QP
16.590	36.21	11.49	60.00	23.79	QP
0.200	29.67	9.64	54.57	24.90	Ave.
0.200	35.01	9.64	64.57	29.56	QP

FCC Part 15 B Page 13 of 16

FCC §15.109 - RADIATED SPURIOUS EMISSIONS

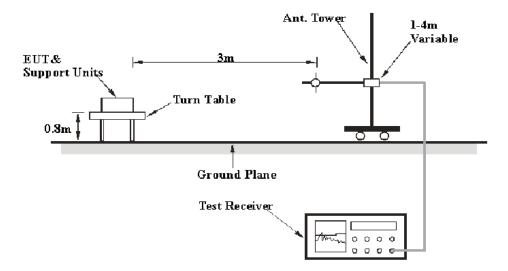
Measurement Uncertainty

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.

Report No.: RSZ120604002-00A

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.

FCC Part 15 B

Page 14 of 16

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:

Frequency	RB/W	VB/W	Detection
30 MHz-1 GHz	100 kHz	300 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.

Report No.: RSZ120604002-00A

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	8447E	1937A01046	2011-11-24	2012-11-23
Rohde & Schwarz	EMI Test Receiver	ESCI	101122	2011-11-17	2012-11-16
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2011-11-28	2012-11-27
R&S	Auto test Software	EMC32	V6.30	N/A	N/A

^{*} 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:

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

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:

1.9 dB at 335.999250 MHz in the Horizontal polarization

FCC Part 15 B Page 15 of 16

Test Data

Environmental Conditions

Temperature:	25 ℃	
Relative Humidity:	56 %	
ATM Pressure:	100.0 kPa	

The testing was performed by Brown Lu on 2012-06-25.

EUT Operation Mode: Downloading (data transmits with Computer)

Auto Test (FCC part 15 Class B) 70 60 FCC Part 15 Class B Electric Field Strength QF Level in dB¦IV/ 40 30 20 30M 50 60 100M 300 500 800 1G 80 200 400 Frequency in Hz

Report No.: RSZ120604002-00A

Antenna Corrected Turntable Correction Frequency Limit Margin **Amplitude** Position Factor (MHz) Height **Polarity** (dBµV/m) (dB) $(dB\mu V/m)$ (degree) (dB) (cm) (H/V) 335.999250 44.1 104.0 Н 131.0 -11.4 46.0 1.9* 52.894750 38.0 104.0 V 129.0 -17.7 40.0 2.0* 63.901250 V 35.9 102.0 0.0 -18.5 40.0 4.1 140.0 129.0 -11.1 348.003500 39.3 Η 46.0 6.7 V 666.403500 37.7 205.0 270.0 -4.2 46.0 8.3 V 41.595000 30.1 138.0 96.0 -13.1 40.0 9.9

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

FCC Part 15 B

Page 16 of 16

^{*}within measurement uncertainty