



FCC PART 15 B, CLASS B TEST REPORT

For

ITALCOM GROUP

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

FCC ID: YPVITALCOMFLY

Report Type: Original Report		Product Type: Mobile Phone
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Report Number:	RSZ130131001	-00A
Report Date:	2013-02-27	
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^{*} This report may contain data that are not covered by the NVLAP accreditation and shall be marked with an asterisk "★"

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *ITALCOM GROUP*'s product, model number: *fly (FCC ID: YPVITALCOMFLY)* or the "EUT" in this report was a *Mobile Phone*, which was measured approximately: 15.1 cm (L) x 8.2 cm (W) x 1.2 cm (H), rated input voltage: DC 3.7 V Li-ion battery, the highest operating frequency is 1GHz.

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* All measurement and test data in this report was gathered from production sample serial number: 123456789 (Assigned by the applicant). The EUT supplied by the applicant was received on 2013-01-31.

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, Part 15.247 DSS and Part 15.247 DTS submissions with FCC ID: YPVITALCOMFLY.

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 C63.4-2003.

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.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

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

EUT operation mode: Downloading (data transforms 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
PHILIPS	Earphone	SBCHP250	N/A

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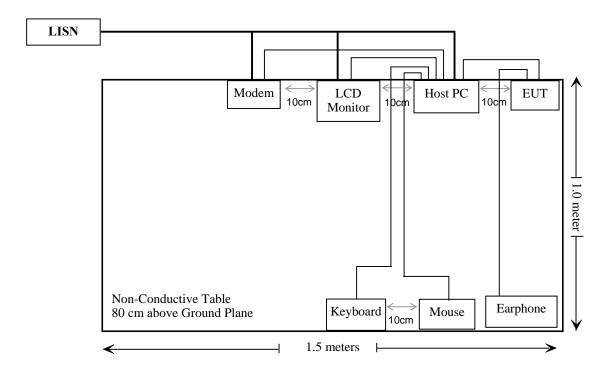
External I/O Cable

Cable Description	Length (m)	From/Port	То
Shielding Detachable USB Cable	1.5	Host PC	Mouse
Shielding Detachable Serial Cable	1.2	Host PC	Modem
Shielding Detachable K/B Cable	1.5	Host PC	Keyboard
Shielding Detachable VGA Cable	1.5	Host PC	LCD Monitor
Shielding Detachable USB Cable	1.0	EUT	Host PC

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Block Diagram of Test Setup

For conducted emission



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SUMMARY OF TEST RESULTS

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

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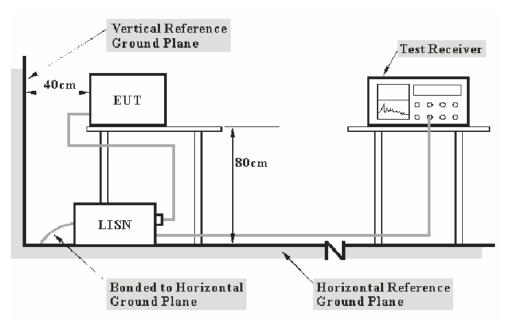
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FCC §15.107 – AC LINE CONDUCTED EMISSIONS

Applicable Standard

According to FCC §15.107

EUT Setup



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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 of EUT setup is according with per ANSI C63.4-2003. The related limit was specified in FCC Part 15.107 Class B.

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 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	

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Test Procedure

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

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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	2012-11-24	2013-11-23
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2012-08-22	2013-08-21
Rohde & Schwarz	Pulse limiter	ESH3Z2	DE25985	2012-07-08	2013-07-07
BACL	CE Test software	BACL-CE	V1.0	-	-

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to National Primary Standards and International System of Units (SI).

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN/ISN VDF (Voltage Division Factor), Cable Loss and Pulse Limiter Attenuation. The basic equation is as follows:

Correction Factor = LISN VDF + Cable Loss + Pulse Limiter Attenuation

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB 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 recorded data in following table, the EUT complied with the <u>FCC Part 15.107</u>, with the worst margin reading of:

3.81 dB at 6.435 MHz in the Neutral conducted mode

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Test Data

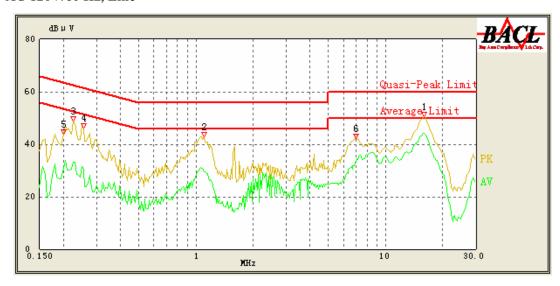
Environmental Conditions

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

The testing was performed by Gardon Zhang on 2013-02-22

EUT Operation Mode: Downloading (data transforms with Computer)

AC 120V/60 Hz, Line

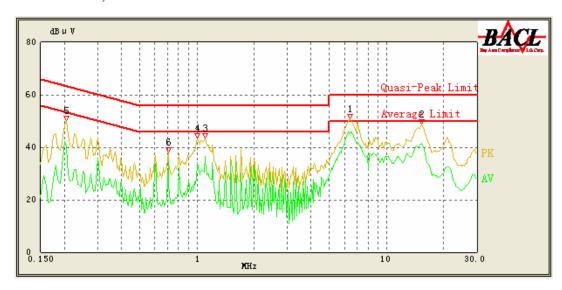


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Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
15.915	44.25	10.60	50.00	5.75	Ave.
15.915	46.83	10.60	60.00	13.17	QP
7.010	34.42	10.30	50.00	15.58	Ave.
1.100	30.05	10.20	46.00	15.95	Ave.
1.100	36.15	10.20	56.00	19.85	QP
7.010	39.55	10.30	60.00	20.45	QP
0.225	33.22	10.10	53.86	20.64	Ave.
0.255	30.40	10.10	53.00	22.60	Ave.
0.200	30.77	10.10	54.57	23.80	Ave.
0.225	38.80	10.10	63.86	25.06	QP
0.255	37.21	10.10	63.00	25.79	QP
0.200	38.69	10.10	64.57	25.88	QP

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AC 120V/60 Hz, Neutral



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Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
6.435	46.19	10.27	50.00	3.81	Ave.
15.335	41.43	10.60	50.00	8.57	Ave.
0.705	34.85	10.20	46.00	11.15	Ave.
1.110	34.63	10.20	46.00	11.37	Ave.
1.010	34.02	10.20	46.00	11.98	Ave.
6.435	47.63	10.27	60.00	12.37	QP
0.205	40.11	10.10	54.43	14.32	Ave.
15.335	43.26	10.60	60.00	16.74	QP
1.110	38.27	10.20	56.00	17.73	QP
1.010	37.47	10.20	56.00	18.53	QP
0.205	44.69	10.10	64.43	19.74	QP
0.705	35.96	10.20	56.00	20.04	QP

- 1) Correction Factor =LISN/ISN VDF (Voltage Division Factor) + Cable Loss + Pulse Limiter Attenuation The corrected factor has been input into the transducer of the test software.
- 2) Corrected Amplitude = Reading + Correction Factor3) Margin = Limit Corrected Amplitude

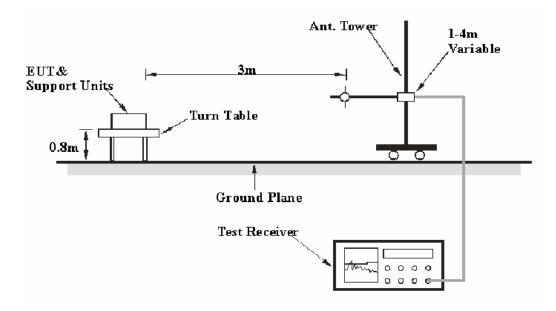
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FCC §15.109 - RADIATED SPURIOUS EMISSIONS

Applicable Standard

According to FCC §15.109

EUT Setup



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The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2003. 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 5.0 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	Detector
30MHz – 1000 MHz	100 kHz	300 kHz	120kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
ADOVE I GHZ	1MHz	10 Hz	/	Ave.

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Test Procedure

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

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	8447E	1937A01046	2012-11-24	2013-11-23
Rohde & Schwarz	EMI Test Receiver	ESCI	101122	2012-08-08	2013-08-07
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2011-11-28	2014-11-27
SUPER ULTRA	Amplifier	ZVA-213+	N/A	2012-11-24	2013-11-23
Sunol Sciences	Horn Antenna	DRH-118	A052304	2011-12-01	2014-11-30
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2012-11-24	2013-11-23

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to National Primary Standards and International System of Units (SI).

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:

10.8 dB at 224.544950 MHz in the Horizontal polarization

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Test Data

Environmental Conditions

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

The testing was performed by Gardon Zhang on 2013-01-22.

EUT Operation Mode: Downloading (data transforms with Computer)

30MHz -5 GHz (1GHz *5th harmonic)

Frequency (MHz)	Corrected Amplitude (dBµV/m)	Detector (PK/QP/A ve.)	Antenna Height (cm)	Antenna Polarity	Turntable Position (Degree)	Correction Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
224.544950	35.2	QP	100.0	Н	265.0	-16.4	46.0	10.8
303.068800	32.8	QP	192.0	Н	76.0	-14.0	46.0	13.2
479.970500	32.3	QP	219.0	V	220.0	-10.1	46.0	13.7
960.004450	40.2	QP	151.0	Н	208.0	-2.9	53.9	13.7
497.778650	26.9	QP	190.0	V	222.0	-10.1	46.0	19.1
30.260227	18.6	QP	295.0	V	317.0	-6.9	40.0	21.4

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

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