

FCC REPORT

Applicant:	AZUMI S.A
Address of Applicant:	Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza, Piso 16 of. 16-01, Marbella, Ciudad de Panamá City, Rep. Panamá
Equipment Under Test (E	UT)
Product Name:	Mobile Phone
Model No.:	L3GA
FCC ID:	QRP-AZUMIL3GA
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B: 2011
Date of sample receipt:	29 Mar., 2013
Date of Test:	01 Apr., to 08 Apr.,2013
Date of report issued:	26 Apr.,2013
Test Result :	Pass *

* In the configuration tested, the EUT complied with the standards specified above.



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	26 Apr.,2013	Original

Prepared By:

Lisu chon

Date:

26 Apr., 2013

Report Clerk

Check By:

Date:

26 Apr., 2013

Project Engineer



Dago

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4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part15.107	Pass
Readiated Emissions	Part15.109	Pass

Pass: The EUT complies with the essential requirements in the standard.

Project No.: CCIS130300090RF



5 General Information

5.1 Client Information

Applicant:	AZUMI S.A			
Address of Applicant:	Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza, Piso 16 of. 10 01, Marbella, Ciudad de Panamá City, Rep. Panamá			
Manufacturer: AZUMI (HK) Limited				
Address of Manufacturer:	RM 2309, 23/F HO KING COMM CTR, 2-16 FAYUEN ST, MONGKOK KOWLOON, HONG KONG			
Factory	SHENZHEN CHINO-E ELECTRONIC INDUSTRY CO.,LTD.			
Address of Factory	chino-E Industrial Park,longhua ,Baoan Area,shenzhen			

5.2 General Description of E.U.T.

Product Name:	Mobile Phone	
Model No.:	Model No.: L3GA	
AC adapter: Input:100-240V AC,50/60Hz 0.15A Output:5.0V DC MAX400mA		
Power supply: Rechargeable Li-ion Battery DC3.7V/750mAh		

5.3 Operating Modes

Operating mode	Detail description
Downloading mode Keep the EUT in Downloading mode(Worst case)	
Playing mode Keep the EUT in Playing mode	
Recording mode Keep the EUT in Recording mode	
FM mode	Keep the EUT in FM receiever mode

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.



FCC ID/DoC Serial Number Manufacturer Description Model DELL PC **OPTIPLEX745** N/A DoC DoC DELL MONITOR E178FPC N/A DELL **KEYBOARD** SK-8115 N/A DoC DELL MOUSE MOC5UO N/A DoC ΗP Printer CB495A 05257893 DoC

5.4 Description of Support Units

5.5 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

• IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd. Address: No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District,Shenzhen, Guangdong,China Tel: 0755-23118282 Fax: 0755-23116366



5.7 Test Instruments list

Radi	ated Emission:					
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	June 09 2012	June 08 2013
2	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr.01 2013	Mar. 31 2014
3	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	June 04 2012	June 03 2013
4	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	May 30 2012	May. 29 2013
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
6	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2013	Mar. 31 2014
7	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2013	Mar. 31 2014
8	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2013	Mar. 31 2014
9	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2013	Mar. 31 2014
10	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2013	Mar. 31 2014
11	Amplifier(10KHz-1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2013	Mar. 31 2014
12	Amplifier(1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2012	June 08 2013
13	Spectrum analyzer	Rohde & Schwarz	FSP	CCIS0023	May 29 2012	May 28 2013
14	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A
15	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A

Cond	Conducted Emission:						
Item Test Equipment		Manufacturer	Model No.	Inventory	Cal.Date	Cal.Due date	
item	rest Equipment	Manulacturer	Model No.	No.	(dd-mm-yy)	(dd-mm-yy)	
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	June 09 2012	June 08 2013	
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	May 25 2012	May. 24 2013	
3	LISN	CHASE	MN2050D	CCIS0074	Apr. 01 2013	Mar. 31 2014	
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2013	Mar. 31 2014	



6 Test results and Measurement Data

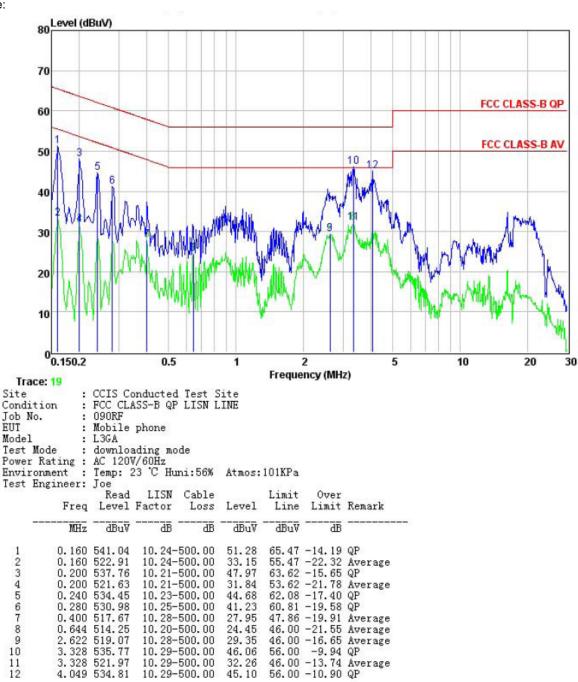
6.1 Conducted Emission

Test Requirement:	FCC Part15 B Section 15.107			
Test Method:	ANSI C63.4:2003			
Test Frequency Range:	150kHz to 30MHz Class B			
Class / Severity:				
Receiver setup:	RBW=9kHz, VBW=30kHz			
Limit:		Limit (d	dBuV)	
	Frequency range (MHz)	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	0.5-30	60	50	
Test setup:	Reference Plane		_	
Test procedure	Image: Lish docs 40cm 80cm Filter AC power Filter AC power Equipment E.U.T Test table/Insulation plane Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m 1. The E.U.T and simulators are connected to the main power through a line			
	 impedance for the measuring e 2. The peripheral devices are als that provides a 50ohm/50uH c (Please refers to the block diag 3. Both sides of A.C. line are che order to find the maximum emil of the interface cables must be conducted measurement. 	o connected to the main oupling impedance with s gram of the test setup an ecked for maximum cond ission, the relative positic	50ohm termination. d photographs). lucted interference. In ons of equipment and all	
Test environment:	Temp.: 23 °C Humic	d.: 56% Pre	ss.: 1 01kPa	
Measurement Record:			Uncertainty: 3.28dB	
Test Instruments:	Refer to section 5.7 for details			
Test mode:	Pre-scan all test mode in the se worse case mode.	ction 5.3, and found the	bleow mode which it is	
Test results:	Pass			

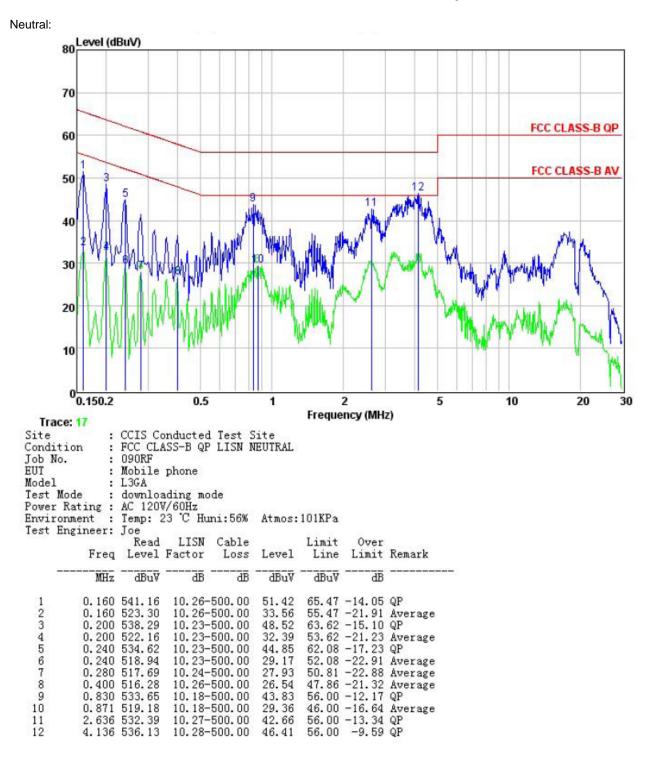


Measurement data:

Line:







Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

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Project No.: CCIS130300090RF



0.2 Raula						
Test Re	equirement:	FCC Part15 B Section 15.109				
Test M	ethod:	ANSI C63.4:2003				
Test Fr	requency Range:	30MHz to 6000MHz				
Test sit	te:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiv	er setup:	Frequency	Detector	RBW	VBW	Remark
		30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
		Above 1GHz	Peak	1MHz	3MHz	Peak Value
		710010 10112	Peak	1MHz	10Hz	Average Value
Limit:		Freque		Limit (dBuV/	m @3m)	Remark
		30MHz-8	8MHz	40.0		Quasi-peak Value
		88MHz-21		43.5		Quasi-peak Value
		216MHz-9		46.0		Quasi-peak Value
		960MHz-	1GHz	54.0		Quasi-peak Value
		Above 1	GHz	54.0		Average Value
				74.0)	Peak Value
		Below 1GHz FUT FUT Tum 0.8m 4 Tum 0.				

6.2 Radiated Emission



1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.		
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.		
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.		
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.		
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.		
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.		
Temp.: 24 °C Humid.: 65% Press.: 1 01kPa		
Uncertainty: 4.88dB		
Refer to section 5.7 for details		
Pre-scan all test mode in the section 5.3, and found the bleow mode which it is worse case mode.		
Passed		

Remark:

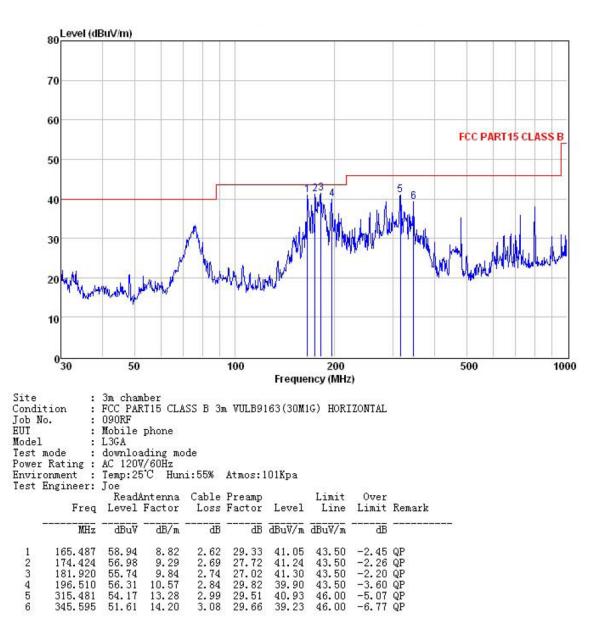
1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.



Measurement Data

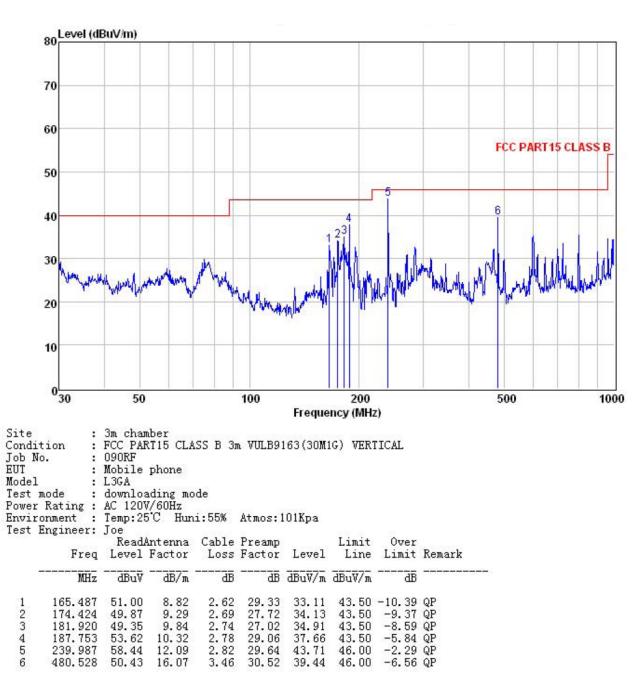
Below 1GHz

Horizontal:



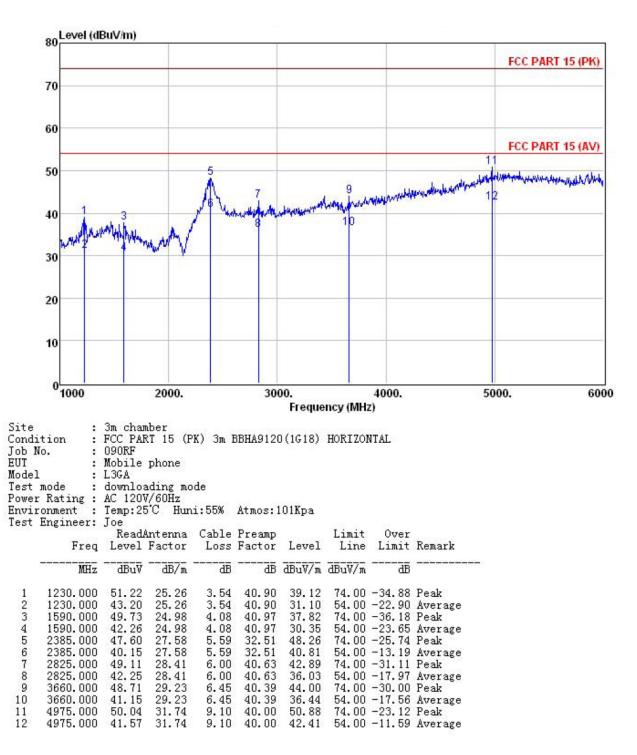


Vertical:





Above 1GHz Horizontal:



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Vertical:

