

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.:	L2NS
FCC ID:	QRP-AZUMIL2NS
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B
Date of sample receipt:	12 Sep., 2014
Date of Test:	12 Sep., to 25 Sep., 2014
Date of report issued:	26 Sep., 2014
Test Result:	PASS *

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

Authorized Signature:



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.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2 Version

Version No.	Date	Description
00	24 Sep., 2014	Original

Prepared by:

10 Luo

Date:

24 Sep., 2014

Report Clerk

Reviewed by:

ran

Date:

24 Sep., 2014

Project Engineer



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4 Test Summary

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

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



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. 16-01, 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, MONGKOKKOWLOON, 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.:	L2NS	
Power supply:	Rechargeable Li-ion Battery DC3.7V-850mAh	
AC adapter :	Model: L2NS Input: 100-240V 50/60Hz 0.15A Output: DC 5V, 500mA	

5.3 Test Mode

Operating mode	Detail description
PC mode	Keep the EUT in Downloading mode(Worst case)
Charging&Multimedia playing mode	Keep the EUT in Charging&Multimedia playing mode
Charging&Recording mode	Keep the EUT in Charging&Recording mode
Charging&FM mode	Keep the EUT in Charging&FM mode
The sample was placed 0.8m above the	around plane of 3m chamber. Measurements in both horizontal and vertical

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.



Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC OPTIPLEX745		N/A	DoC
DELL	MONITOR			DoC
DELL	KEYBOARD	BOARD SK-8115 N/A		DoC
DELL	MOUSE	MOUSE MOC5UO		DoC
HP	Printer CB495A 05257893		05257893	DoC
MERCURY	Wireless router	MW150R	12922104015	FCC ID

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

Radiated	Emission:
i tualatoa	

Radia	Radiated Emission:								
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)			
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	Aug 23 2014	Aug 22 2017			
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	Apr 19 2014	Apr 19 2015			
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	Apr 19 2014	Apr 19 2015			
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			
5	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2014	Mar. 31 2015			
6	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2014	Mar. 31 2015			
7	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2014	Mar. 31 2015			
8	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2014	Mar. 31 2015			
9	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2014	Mar. 31 2015			
10	Amplifier(10kHz- 1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2014	Mar. 31 2015			
11	Amplifier(1GHz- 18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2014	June 08 2015			
12	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2014	Mar. 31 2015			
13	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2014	Mar. 29 2015			
14	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A			
15	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A			
16	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	Apr 19 2014	Apr 19 2015			
17	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr 01 2014	Mar. 31 2015			
18	Loop antenna	Laplace instrument	RF300	EMC0701	Apr 01 2014	Mar. 31 2015			
19	Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	May. 29 2014	May. 28 2015			
20	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	Apr 19 2014	Apr 19 2015			

Cond	Conducted Emission:								
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
				NO.	(mm-uu-yy)	(IIIII-uu-yy)			
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	Oct 10 2011	Oct 09 2014			
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	Apr 10 2014	Apr 09 2015			
3	LISN	CHASE	MN2050D	CCIS0074	Apr 10 2014	Apr 10 2015			
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2014	Mar. 31 2015			



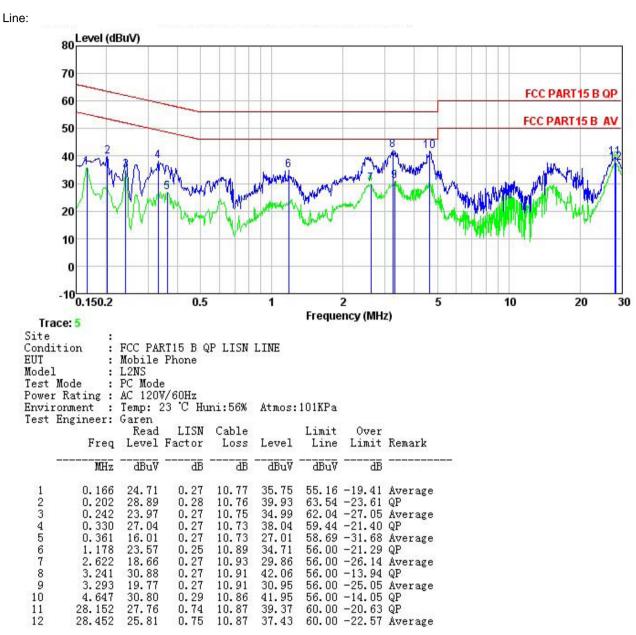
6 Test results and Measurement Data

6.1 Conducted Emission

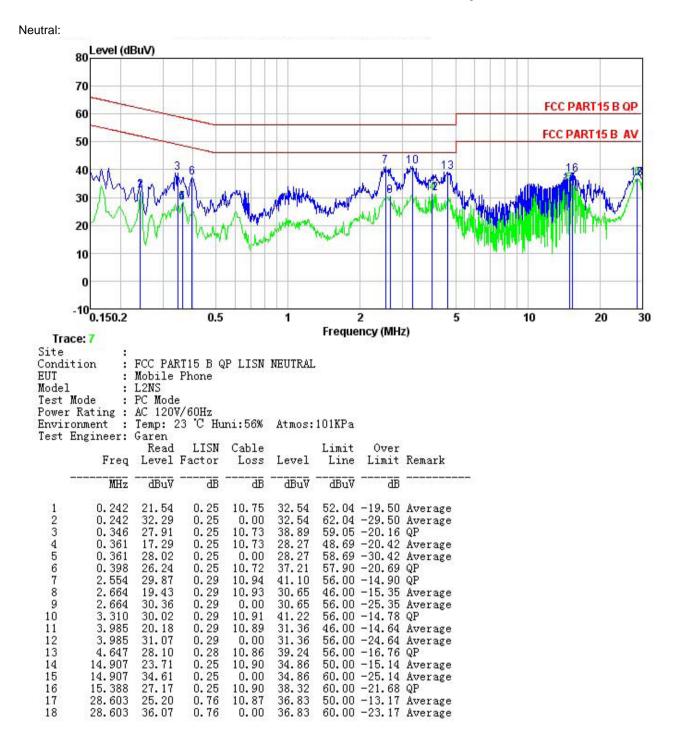
Т	Fest Requirement:	FCC Part15 B Section 15.107					
Т	Fest Method:	ANSI C63.4:2003					
Т	Fest Frequency Range:	150kHz to 30MHz					
C	Class / Severity:	Class B					
F	Receiver setup:	RBW=9kHz, V	'BW=30kHz				
L	_imit:	Limit (dBµV)					
		Frequenc	y range (MH	z)	Quasi-peak		Average
		0.	15-0.5		66 to 56*		56 to 46*
		(0.5-5		56		46
		0).5-30		60		50
Т	Fest setup:		Reference	e Plane			
T	Fest procedure	 Reference Prate Isometry and the second second					
Т	Fest environment:	Temp.: 2	3 °C	Humid.:	56%	Press.:	1 01kPa
1	Measurement Record:					Uncer	tainty: 3.28dB
Т	Fest Instruments:	Refer to section 5.7 for details					
Т	Fest mode:	Refer to section 5.3 for details					
		Passed					



Measurement data:







Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



6.2 Radiated Emission

Test Requirement:	FCC Part15 B S	ection 15.109					
Test Method:	ANSI C63.4:200)3					
Test Frequency Range:	30MHz to 6000	ИНz					
Test site:	Measurement D	istance: 3m (Sen	ni-Anechoic Charr	nber)			
Receiver setup:	Frequency	Detector	or RBW		Remark		
	30MHz-1GHz	Quasi-peak	ak 120 kHz 3		z Quasi-peak		
	Above 1GHz Peak		1MHz	3MHz	Peak Value		
Limit:	Frequen	cy Li	imit (dBuV/m @3r	n)	Remark		
	30MHz-88		40.0		Quasi-peak Value		
	88MHz-216	SMHz	43.5	(Quasi-peak Value		
	216MHz-96	0MHz	46.0		Quasi-peak Value		
	960MHz-1	GHz	54.0	(Quasi-peak Value		
	About 40		54.0		Average Value		
	Above 10	5HZ	74.0		Peak Value		
	EUT Turm Table Ground Plane Above 1GHz	3m <	Rec Ant Spectr Analy				



Test Procedure:	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.							
Test environment:	Temp.: 25 °C Humid.: 55% Press.: 1 01kPa							
Measurement Record:	Uncertainty: 4.88dB							
Test Instruments:	Refer to section 5.7 for details							
Test mode:	Refer to section 5.3 for details							
Test results:	Passed							



Test Procedure:	7. 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.							
	8. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.							
	9. 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.							
	10. 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.							
	11. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.							
	12. 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.							
Test environment:	Temp.: 25 °C Humid.: 55% Press.: 1 01kPa							
Measurement Record:	Uncertainty: 4.88dB							
Test Instruments:	Refer to section 5.7 for details							
Test mode:	Refer to section 5.3 for details							
Test results:	Passed							

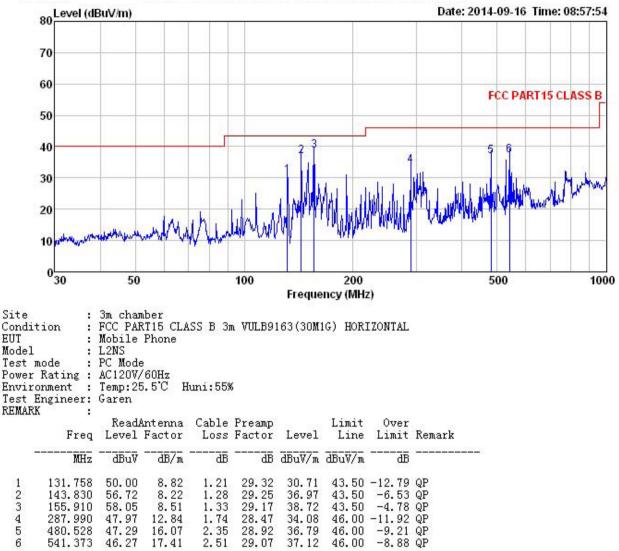


Measurement Data

541.373

Below 1GHz

Horizontal:



17.41



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	80	BuV/m)											
	70		_									_	
	60		_		_					F	CC PA	RT 15 CI	ASS
	50	-	_							112			
	40		_			2	3	2	4.	ទា			
	30		_			111					W July	a and the	wether
	20		-	0	, Ja	L MAK	M	la lahita	1 WWW	TWPT	WAT	MAN	
	10 when the	anthe	und An	NW	NV may	endla -	. Million	Ma. Mu. Ma.					_
	0 20	50			400	-11-	200				00		
Site	30	50 3m char	nber		100		200 ency (MH			5	00		•
Condi EUT Model Fest Power Envir Fest	30 tion : mode : Rating : onment : Engineer: K :	3m char FCC PAI Mobile L2NS PC Mode AC120V/ Temp:25 Garen Read/	mber RT15 CLA Phone 6 60Hz 5.5°C H Antenna	uni:559 Cable	n VULB9 6 Preamp	163(30)11	ency(MH: 1G) VER Limit	TICAL Over	Poperk	5	00		
Condi EUT Wodel Fest Power Envir Fest	30 tion : mode : Rating : onment : Engineer: K : Freq	3m char FCC PAI Mobile L2NS PC Mode AC120V/ Temp:25 Garen Read/ Level	mber RT15 CLA Phone 6 60Hz 5.5°C H Antenna Factor	uni:55) Cable Loss	n VULB9 6 Preamp Factor	163(30M) Level	ency(MH 1G) VER Limit Line	TICAL Over Limit	Remark	5	00		
Condi EUT Model Fest Power Envir Fest	30 tion : mode : Rating : onment : Engineer: K :	3m char FCC PAI Mobile L2NS PC Mode AC120V/ Temp:25 Garen Read/	mber RT15 CLA Phone 6 60Hz 5.5°C H Antenna	uni:559 Cable Loss dB	n VULB9 6 Preamp Factor	163(30)11	ency(MH 1G) VER Limit Line	TICAL Over Limit	Remark		00		1
Condi SUT Model Test Power Snvir Test REMAR	30 tion : mode : Rating : onment : Engineer: K : Freq 131.758	3m char FCC PAH Mobile L2NS PC Mode AC120V, Temp:25 Garen Read/ Level 	nber RT15 CLA Phone 6 60Hz 5.5°C H Antenna Factor 	uni:559 Cable Loss 	n VULB9 6 Preamp Factor 	163(30)M Level dBuV/m 27.42	Ency (MH: 1G) VER Limit Line dBuV/m 43.50	Over Limit -16.08			00		1
Condi EUT Model Test Power Envir Test REMAR	30 tion : mode : Rating : onment : Engineer: K : Freq 	3m char FCC PAH Mobile L2NS PC Mode AC120V, Temp:25 Garen ReadJ Level 	nber RT15 CLA Phone 6 60Hz 5.5°C H Antenna Factor 	uni:559 Cable Loss 	n VULB9 6 Factor 	Level dBuV/m 27.42 33.93	Ency (MH: 1G) VER Limit Line dBuV/m 43.50 43.50	Over Limit -16.08 -9.57	QP QP		00		
Envir Test REMAR	30 tion : mode : Rating : onment : Engineer: K : Freq 131.758	3m char FCC PAH Mobile L2NS PC Mode AC120V, Temp:25 Garen Read/ Level 	nber RT15 CLA Phone 6 60Hz 5.5°C H Antenna Factor 	uni:559 Cable Loss 	n VULB9 6 Preamp Factor 	Level dBuV/m 27.42 33.93 38.30 36.06	Limit Limit Line dBuV/m 43.50 43.50 43.50 43.00	Over Limit 	QP QP QP QP QP		00		



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80 Level (dBuV/m) Date: 2014-09-23 Time: 16:42:50 FCC PART 15 (PK) 70 60 FCC PART 15 (AV) 5 50 3 with the were the 40 der 30 20 10 0¹1000 1200 1500 2000 5000 6000 Frequency (MHz) Site 3m chamber : : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition : Mobile Phone EIIT Model : L2NS Test mode : PC mode Power Rating : AC 120V/60Hz Environment : Temp:25°C Huni:55% Atmos:101Kpa Test Engineer: Garen Remark 2 ReadAntenna Cable Preamp Limit Over Freq Level Factor Loss Factor Level Line Limit Remark dBuV dB/m MHz dB dB dBuV/m dBuV/m dB 1809.539 49.94 25.35 25.35 40.97 74.00 -35.00 Peak 54.00 -22.42 Aver: 4.68 39.00 1 2 42.52 1809.539 4.68 40.97 31.58 Average 3 3315.761 50.01 28.33 6.22 39.62 44.94 74.00 -29.06 Peak 4 3315.761 43.68 28.33 6.22 39.62 38.61 54.00 -15.39 Average 5407.773 47.27 31.87 9.15 40.20 74.00 -25.91 Peak 5 48.09

Above 1GHz Horizontal:

6

5407.773 43.67

31.87

9.15

40.20 44.49

54.00 -9.51 Average

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