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# RF Test Report

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Report No.: AGC09377170501EE07

**PRODUCT DESIGNATION** : Tablet PC  
**BRAND NAME** : Vonino  
**MODEL NAME** : Pluri B7  
**CLIENT** : Vonino Electronics (HK) Limited  
**DATE OF ISSUE** : May. 10, 2017  
**STANDARD(S)** : EN 301 908-1 V7.1.1 (2015-03)  
: EN 301 908-2 V7.1.1 (2015-12)  
**REPORT VERSION** : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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**Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May. 10, 2017	Valid	Re-certification Report

**Note:** The report of the model (Pluri B7) is based on the original report- No. AGC06327160803EE07, which was named after (K702X), with changed the basic information. The standard EN 301 908-2 V6.2.1 (2013-10) is updated into EN 301 908-2 V7.1.1 (2015-12). All the test data is updated into this new report.

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**1. TEST REPORT CERTIFICATION**

<b>Applicant</b>	Vonino Electronics (HK) Limited
<b>Address</b>	#1109, 11/F, Kowloon Center 33 Ashley Road, Tsim Sha Tsui, Kowloon, Hong Kong
<b>Manufacturer</b>	Vonino Electronics (HK) Limited
<b>Address</b>	#1109, 11/F, Kowloon Center 33 Ashley Road, Tsim Sha Tsui, Kowloon, Hong Kong
<b>Product Designation</b>	Tablet PC
<b>Brand Name</b>	Vonino
<b>Test Model</b>	Pluri B7
<b>Date of test</b>	May. 09, 2017 to May. 10, 2017
<b>Deviation</b>	None
<b>Condition of Test Sample</b>	Normal
<b>Report Template</b>	AGCRT-EC-3G2/RF

We, Attestation of Global Compliance (Shenzhen) Co., Ltd., for compliance with the requirements set forth in the European Standard ETSI EN 301 908-1/-2. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By



Jeast Zhan(Zhan jiangdong)

May. 10, 2017

Reviewed By



Bart Xie(Xie Xiaobin)

May. 10, 2017

Approved By



 Solger Zhang(Zhang Hongyi)  
 Authorized Officer

May. 10, 2017

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## 2. GENERAL INFORMATION

### 2.1. DESCRIPTION OF EUT

#### 2.1.1. FINAL EQUIPMENT BUILD STATUS

Details of technical specification refer to the description in follows:

<b>Product Name</b>	Tablet PC
<b>Brand Name</b>	Vonino
<b>Test Model</b>	Pluri B7
<b>Product Type</b>	UMTS
<b>Hardware Version</b>	S706C-7731-D2(216)V1.0
<b>Software Version</b>	vonino_v1.4.0_20170503
<b>UMTS Frequency Bands</b>	<input checked="" type="checkbox"/> FDD Band I <input checked="" type="checkbox"/> FDD Band VIII (EU Bands) <input type="checkbox"/> FDD Band V <input type="checkbox"/> FDD Band II (Non-EU Bands)
<b>Modulation Mode</b>	HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK
<b>Antenna Type</b>	PIFA Antenna
<b>Antenna Gain</b>	1.0dBi
<b>Power Class</b>	FDD Band I:3, FDD Band VIII:3
<b>GSM Release Version</b>	Rel-6
<b>SIM Card Description</b>	There are dual-SIM cards, just one for GSM/WCDMA and the other only for GSM.

#### 2.1.2. PHOTOGRAPHS OF THE EUT

Please see APPENX 1 for photographs of the EUT.

#### 2.1.3. IDENTIFICATION OF SAMPLES EUT

The EUT Identity consists of numerical and letter characters (see the table below), the first five numerical characters indicates the Type of the EUT defined by AGC, the next letter character indicates the test sample, and the following two numerical characters indicates the software version of the test sample.

##### SAMPLE A01

<b>Sample Reference Number</b>	A01
<b>Manufacturer Name</b>	Vonino Electronics (HK) Limited
<b>Test Model</b>	Pluri B7
<b>Product Type</b>	FDD Band I, FDD Band VIII
<b>Frequency Bands</b>	HSDPA:QPSK/16QAM;HSUPA:BPSK WCDMA: QPSK

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**2.2. TYPE OF PICS/PIXIT INFORMATION**

Item	Release	FDD (DS) RF Baseline Implementation capabilities	Support	Allowed Value	Comments
1	R99	Chip rate 3.84 Mbps	YES	Yes/No	--
2	R99	Frequency band: 1920-1980, 2110-2170 MHz	YES	Yes/No	Band I
3	R99	Frequency band: 1850-1910, 1930-1990 MHz	NO	Yes/No	Band II
9	R99	UE Power Class 1 (+33 dBm)	NO	Yes/No	--
10	R99	UE Power Class 2 (+27 dBm)	NO	Yes/No	--
11	R99	UE Power Class 3 (+24 dBm)	YES	Yes/No	--
12	R99	UE Power Class 4 (+21 dBm)	NO	Yes/No	--
14	R99	Frequency band: 1710-1785, 1805-1880 MHz	NO	Yes/No	Band III
15	R99	Frequency band: 1710-1755, 2110-2155 MHz	NO	Yes/No	Band IV
16	R99	Frequency band: 824-849, 869-894 MHz	NO	Yes/No	Band V
17	R99	Frequency band: 830-840, 875-885 MHz	NO	Yes/No	Band VI
18	R99	Frequency band: 2500-2570, 2620-2690 MHz	NO	Yes/No	Band VII
19	R99	Frequency band: 880-915, 925-960 MHz	YES	Yes/No	Band VIII
20	R99	Frequency band: 1749.9-1784.9, 1844.9-1879.9 MHz	NO	Yes/No	Band IX
21	R99	Frequency band: 1710-1770, 2110-2170 MHz	NO	Yes/No	Band X
22	R99	Frequency band: 1427.9-1452.9, 1475.9-1500.9 MHz	NO	Yes/No	Band XI
23	R99	Frequency band: 698-716, 728-746 MHz	NO	Yes/No	Band XII
24	R99	Frequency band: 777-787, 746-756 MHz	NO	Yes/No	Band XIII
25	R99	Frequency band: 788-798, 758-768 MHz	NO	Yes/No	Band XIV

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### 3. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION

<b>Test Site-1</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location 1</b>	2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China
<b>Location-2</b>	B112-B113, Building 12, Baoan Building Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen, Guangdong, P.R.China

Note: adjacent channel selectivity, blocking characteristics, intermodulation characteristics of receiver test within the scope of TAF approval.

### LIST OF EQUIPMENTS USED OF AGC

No.	Type	Manufacturer	S/N	Cal. Date	Cal. Due
1	H & T Chamber ETH225-40A	Test EQ	WIT-05121302	Feb.13,2017	Feb.12,2018
2	CMU200	R&S	120237	Feb.27,2017	Feb.26,2018
3	Wireless communication test set 8960	Agilent	GB46200384	July 18,2016	July 17,2017
4	Power Splitter 11636A	Agilent	34	Oct.10,2016	Oct.09,2017
5	Attenuator FSC 96341	MA-CCM	2082-6192-06	Oct.10,2016	Oct.09,2017
6	Vector Signal Generator SMU200A	R&S	104332	Oct.10,2016	Oct.09,2017
7	VECTOR ANALYZER E4440A	Agilent	MY44303916	July 02,2016	July 01,2017
8	MXG Vector Signal Generator N5182A	AGILENT	MY50140530	Oct.10,2016	Oct.09,2017
9	PSG Analog Signal Generator E8257D	AGILENT	MY45141029	Oct.10,2016	Oct.09,2017
10	MXA Signal Analyzer N9020A	AGILENT	W1312-60196	Feb.27,2017	Feb.26,2018
11	Universal Switch Control Unit	JS TONSCEND	N/A	---	---
12	RF SHIELD BOX	R&S	1204.7008K02- 102590-EE	Feb.27,2017	Feb.26,2018
13	Programmable Power Supply PPT-1830	GW INSTEK	EM907629	Aug.25,2016	Aug.24,2017
14	Vibration Source SCU-200	SUSHI	3000-40-07	Feb.23,2017	Feb.22,2018
15	Attenuator FSC 96341	MA-CCM	2082-6192-06	Oct.10,2016	Oct.09,2017
16	EMI Test Receiver ESCI	R&S	100694	July 02,2016	July 01,2017
17	Double-Ridged Waveguide Horn Antenna 3117	ETS LINDGREN	00034609	Mar.01,2016	Feb.28,2018
18	Trilog Broadband Antenna VULB 9168	SCHWARZBECK	494	Mar.01,2016	Feb.28,2018

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No.	Type	Manufacturer	S/N	Cal. Date	Cal. Due
19	LOOP ANTENNA SAS-562B	A.H	/	Mar.01,2016	Feb.28,2018
20	Artificial Mains Network ENV4200	R&S	101116	July.18,2016	July.17,2017
21	Artificial Mains Network ENV216	R&S	101242	July.18,2016	July.17,2017
22	Filter Bank Notch 1(880-915MHz)	MICRO-TRONICS	010	Feb.27,2017	Feb.26,2018
23	Filter Bank Notch 2(1710-1785MHz)	MICRO-TRONICS	009	Feb.27,2017	Feb.26,2018
24	Filter Bank Notch 3(1920-1980MHz)	MICRO-TRONICS	008	Feb.27,2017	Feb.26,2018

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#### 4. MEASUREMENT UNCERTAINTY

Parameter	Conditions	Test System Uncertainty
Transmitter Maximum Output power	--	±0,6dB
Transmitter spectrum emissions mask	--	±1,4 dB
Transmitter spurious emissions	$f \leq 2,2$ GHz	±1,35 dB
	$2,2$ GHz < $f \leq 4$ GHz	±1.8 dB
	$f > 4$ GHz	±3.5 dB
	Co-existence band ( $\geq -60$ dBm)	±1.8 dB
	Co-existence band (< -60 dBm)	±2.7 dB
Transmitter Minimum output power	--	±0.8 dB
Receiver Adjacent Channel Selectivity(ACS)	--	±0.9 dB
Receiver Blocking characteristics	$f < 15$ MHz offset:	±1,1 dB
	$15$ MHz offset $\leq f \leq 2,2$ GHz	±0.8 dB
	$2,2$ GHz < $f \leq 4$ GHz	±1,5 dB
	$f > 4$ GHz	±2.9 dB
Receiver spurious response	$f \leq 2,2$ GHz	±0.8 dB
	$2,2$ GHz < $f \leq 4$ GHz	±1,5 dB
	$f > 4$ GHz	±2.9 dB
Receiver intermodulation characteristics	--	±1,2 dB
Receiver spurious emissions	For UE receive band (-60 dBm)	±2.8 dB
	For UE transmit band (-60 dBm)	±2.9 dB
	Outside the UE receive band:	
	$f \leq 2,2$ GHz	±1.8 dB
	$2,2$ GHz < $f \leq 4$ GHz	±1.7 dB
$f > 4$ GHz	±3.6 dB	
Out of synchronization of handing power	DPCCH Ec/Ior	±0,3 dB
	Transmit OFF power	±0.8 dB
Transmitter adjacent channel leakage power ratio	--	±0,7 dB
Effective radiated RF power between 30 MHz and 180 MHz	--	±5 dB
Effective radiated RF power between 180 MHz and 12,75 GHz	--	±2 dB
Conducted RF power	--	±0.9 dB

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## 5. TEST RESULT

### 5.1. APPLIED REFERENCE DOCUMENTS

Leading reference documents for testing:

No.	Identity	Document Title
1	ETSI EN 301 908-1	IMT cellular networks; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive; Part 1: Introduction and common requirements
2	ETSI EN 301 908-2	IMT cellular networks; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive; Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE)

Specific reference documents for testing:

No.	Identity	Document Title
3	3GPP TS 34.121-1	3rd Generation Partnership Project; Technical Specification Group Radio Access Network ; Terminal conformance specification; Radio transmission and reception (FDD)
4	3GPP TS 34.121-2	3rd Generation Partnership Project; Technical Specification Group Radio Access Network User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)

### 5.2. TEST ENVIRONMENT/CONDITIONS

<b>Normal Temperature (NT)</b>	15 ... 35 °C
<b>Relative Humidity</b>	20 ... 75 %
<b>Air Pressure</b>	980 ... 1020 hPa
<b>Adapter Test Model Name</b>	VNA-0000001
<b>Details of Power Supply (Rated Input)</b>	AC100-240V, 50/60Hz, 0.3A
<b>Details of Power Supply (Rated Output)</b>	DC5.0V, 2.0A
<b>Extreme Temperature</b>	Low Temperature (LT) = -20°C High Temperature (HT) = +55°C
<b>Extreme Voltage of the EUT</b>	Normal Voltage= DC 3.70V Limit Voltage = DC 4.20V
<b>Note:</b> The Limit Voltage 4.20V was declared by manufacturer, The EUT couldn't be operate normally with higher voltage.	

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### 5.3. ITEMS USED IN THE TEST RESULTS LIST

Terms in the column “Verdict” for the test results list of the section:

Verdict	Description
PASS	EUT passed this test case
FAIL	EUT failed this test case
INC.	EUT did not pass and did not fail this test case, therefore the verdict is inconclusive
FOUR-FAITH	Test case not applicable for the EUT, see the column “Note” for detailed

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**5.4. TEST RESULTS LIST**
**ETSI EN 301 908-1**

Test case	Description	Condition	FDDI		FDDV	
			Sample	Result	Sample	Result
5.3.1	Radiated emission (UE)	NTC	A01	PASS	A01	PASS
5.3.3	Control and monitoring functions (UE)	NTC	A01	PASS	A01	PASS

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**ETSI EN 301 908-2**

Test case	Description	Condition	FDDI		FDDV	
			Sample	Result	Sample	Result
4.2.2	Transmitter Characteristics/Maximum Output Power	NTC	A01	PASS	A01	PASS
4.2.2	Transmitter Characteristics/Maximum Output Power	HT/HV	A01	PASS	A01	PASS
4.2.2	Transmitter Characteristics/Maximum Output Power	HT/LV	A01	PASS	A01	PASS
4.2.2	Transmitter Characteristics/Maximum Output Power	LT/HV	A01	PASS	A01	PASS
4.2.2	Transmitter Characteristics/Maximum Output Power	LT/LV	A01	PASS	A01	PASS
4.2.5	Transmitter Characteristics/Output Dynamics in the Uplink/Minimum Output Power	NTC	A01	PASS	A01	PASS
4.2.5	Transmitter Characteristics/Output Dynamics in the Uplink/Minimum Output Power	HTHV	A01	PASS	A01	PASS
4.2.5	Transmitter Characteristics/Output Dynamics in the Uplink/Minimum Output Power	HTLV	A01	PASS	A01	PASS
4.2.5	Transmitter Characteristics/Output Dynamics in the Uplink/Minimum Output Power	LT/HV	A01	PASS	A01	PASS
4.2.5	Transmitter Characteristics/Output Dynamics in the Uplink/Minimum Output Power	LT/LV	A01	PASS	A01	PASS
4.2.11	Transmitter Characteristics/Output Dynamics in the Uplink/Out-of-synchronization Handling of Output power	NTC	A01	PASS	A01	PASS
4.2.3	Transmitter Characteristics/Spectrum Emission Mask	NTC	A01	PASS	A01	PASS
4.2.3	Transmitter Characteristics/Spectrum Emission Mask-HSDPA&HSUPA	NTC	A01	PASS	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)	NTC	A01	PASS	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)	HT/HV	A01	PASS	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent	HT/LV	A01	PASS	A01	PASS

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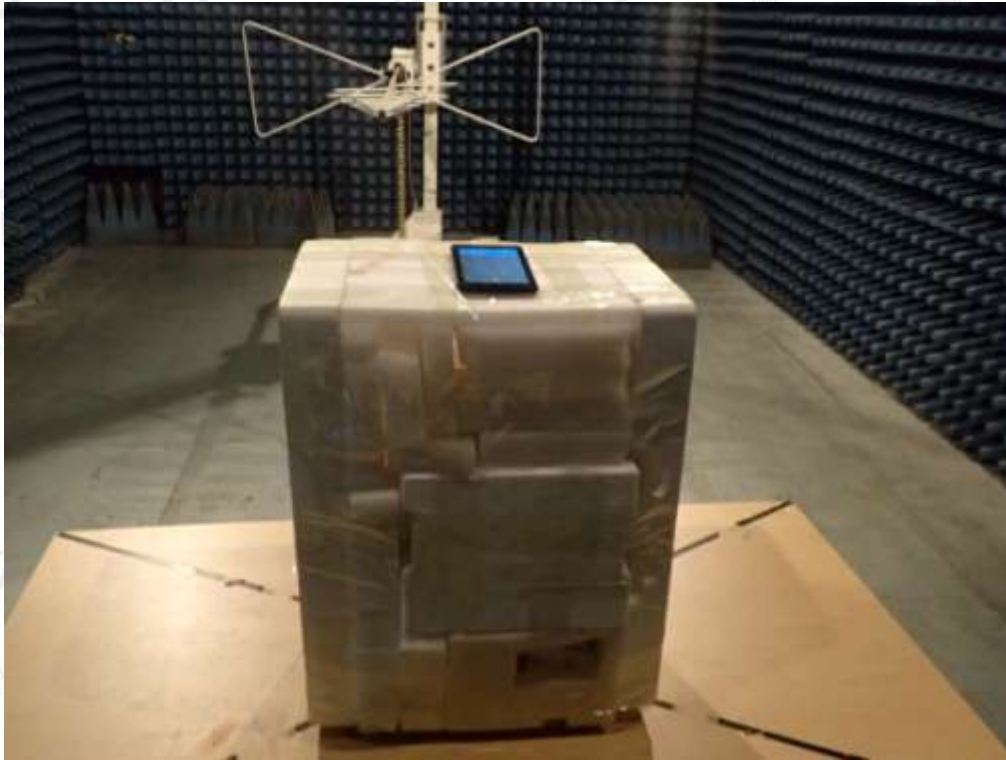
	Channel Leakage Power Ratio (ACLR)					
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)	LT/HV	A01	PASS	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)	LT/LV	A01	PASS	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)--HSDPA&HSUPA	NTC	A01	PASS	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)--HSDPA&HSUPA	HT/HV	A01	PASS	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)--HSDPA&HSUPA	HT/LV	A01	PASS	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)--HSDPA&HSUPA	LT/HV	A01	PASS	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)--HSDPA&HSUPA	LT/LV	A01	PASS	A01	PASS
4.2.4	Transmitter Characteristics/Spurious Emissions	NTC	A01	PASS	A01	PASS
4.2.6	Receiver Characteristics/Adjacent Channel Selectivity (ACS)	NTC	A01	PASS	A01	PASS
4.2.7	Receiver Characteristics/Blocking Characteristics	NTC	A01	PASS	A01	PASS
4.2.8	Receiver Characteristics/Spurious Response	NTC	A01	PASS	A01	PASS
4.2.9	Receiver Characteristics /Intermodulation Characteristics	NTC	A01	PASS	A01	PASS
4.2.10	Receiver Characteristics/Spurious Emissions	NTC	A01	PASS	A01	PASS

**Note:** The test result is SIM Card 1 ( only SIM Card 1 support WCDMA ) and recorded in the test report.

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**APPENDIX A: PHOTOGRAPHS OF TEST SETUP**  
RADIATED SPURIOUS EMISSION TEST SETUP



----END OF REPORT----

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