

Global United Technology Services Co., Ltd.

Report No.: GTSE13040037802

TEST REPORT

Archos SA Applicant:

12 Rue Ampere, Igny 91430, France Address of Applicant:

Equipment Under Test (EUT)

Product Name: Tablet PC

Model No.: AN8G4

Trade Mark: **Archos**

FCC ID: SOVAN8G4I

FCC CFR Title 47 Part 15 Subpart B:2012 **Applicable standards:**

Date of sample receipt: April 01, 2013

April 01-12, 2013 Date of Test:

Date of report issue: April 12, 2013

PASS * Test Result:

Authorized Signature:

Robinson Lo **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 GTS 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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^{*} In the configuration tested, the EUT complied with the standards specified above.



2 Version

Version No.	Date	Description
00	April 12, 2013	Original

Prepared By:	hank. yan	Date:	April 12, 2013	
	Project Engineer			
Check By:	Hans. Hu	Date:	April 12, 2013	
	Reviewer			



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4 Test Summary

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

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



5 General Information

5.1 Client Information

Applicant:	Archos SA
Address of Applicant:	12 Rue Ampere, Igny 91430, France
Manufacturer :	Dongguan Yuanfeng Technology Co., Ltd.
Address of Manufacturer :	No.62, South Fumin Road, Fumin Industrial Park, Dalang Town, Dongguan City, Guangdong, P.R. China
Factory:	Dongguan Yuanfeng Technology Co., Ltd.
Address of Factory:	No.62, South Fumin Road, Fumin Industrial Park, Dalang Town, Dongguan City, Guangdong, P.R. China

5.2 General Description of E.U.T.

Product Name:	Tablet PC
Model No.:	AN8G4
Power supply:	Model No. :ADC050200Z W
	Input: AC 100-240V 50/60Hz 0.4A MAX
	Output: DC 5.0V 2.0A
	Or
	DC 3.7V Li-ion Battery

5.3 Test mode

Test mode:		
Playing mode	Keep the EUT in Playing mode	
Video Record mode	Keep the EUT in Video Recording mode	
PC mode	Keep the EUT in exchanging data mode.	
HDMI mode	Keep the EUT in HDMI output mode.	

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



5.4 Test Facility

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

• CNAS —Registration No.: CNAS L5775

CNAS has accredited Global United Technology Services Co., Ltd. To ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, July 20, 2010.

• Industry Canada (IC)

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-1.

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen,

China

Tel: 0755-27798480 Fax: 0755-27798960

5.6 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
HP	Printer	CB495A	05257893	DoC
DELL	PC	OPTIPLEX745	GTS312	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
PHILIPS	LCD TV	19PFL3120/T3	AU1A1212002906	DoC

Shenzhen, China 518102



5.7 Deviation from Standards

Biconical, log.per. antenna and horn antenna were used instead of dipole antenna. Semi-anechoic Chamber was used as alternation of open air test sites, and all test suites were performed with radiated method in it.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.



Project No.: GTSE130400378RF

6 Test Instruments list

Radi	Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.0(L)*6.0(W)* 6.0(H)	GTS250	Mar. 29 2013	Mar. 28 2014	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A	
3	ESU EMI Test Receiver	R&S	ESU26	GTS203	Jul. 07 2012	Jul. 06 2013	
4	BiConiLog Antenna	SCHWARZBECK	VULB9163	GTS214	Mar. 09 2013	Mar. 08 2014	
5	Double -ridged waveguide horn	SCHWARZBECK	9120D	GTS208	Mar. 9 2013	Mar. 08 2014	
6	RF Amplifier	HP	8347A	GTS204	Jul. 07 2012	Jul. 06 2013	
7	Preamplifier	HP	8349B	GTS206	Jul. 07 2012	Jul. 06 2013	
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
9	Coaxial cable	GTS	N/A	GTS210	Jul. 07 2012	Jul. 06 2013	
10	Coaxial Cable	GTS	N/A	GTS211	Jul. 07 2012	Jul. 06 2013	
11	Thermo meter	N/A	N/A	GTS256	Jul. 07 2012	Jul. 06 2013	

Con	Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Sep. 08 2011	Sep. 07 2013	
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jul. 03 2012	Jul. 02 2013	
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 03 2012	Jul. 02 2013	
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jul. 03 2012	Jul. 02 2013	
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 03 2012	Jul. 02 2013	
6	Coaxial Cable	GTS	N/A	GTS227	Jul. 03 2012	Jul. 02 2013	
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	

Gei	General used equipment:					
Iten	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	Barometer	ChangChun	DYM3	GTS257	July 10 2012	July 09 2013



7 Test Results and Measurement Data

7.1 Conducted Emissions

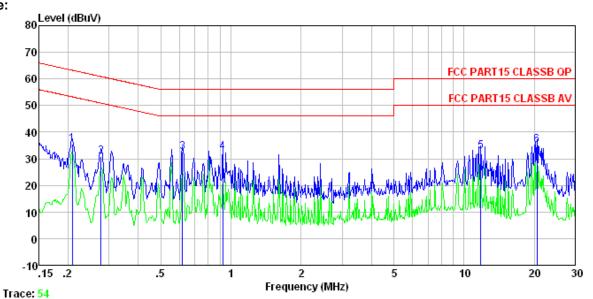
-	Test Requirement:	FCC Part15 B Section 15.107					
-	Test Method:	ANSI C63.4:2003					
-	Test Frequency Range:	150KHz to 30MHz					
	Class / Severity:	Class B					
	Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto				
	 Limit:	Francisco de (MILE)	Limit (c	lBuV)			
		Frequency range (MHz)	Average				
		0.15-0.5 66 to 56* 56 to 46°					
		0.5-5 56 46					
		5-30 60 50					
_		* Decreases with the logarithm					
	Test setup:	Reference Plane					
		AUX Equipment Remark: E.U.T EMI Receiver Remark: E.U.T Equipment Under Test LISN Filter AC power EMI Receiver					
-	Test procedure:	The E.U.T and simulators a line impedance stabilization 50ohm/50uH coupling impe	n network (L.I.S.N.). Th	nis provides a			
		 The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement. 					
-	Test Instruments:	Refer to section 6 for details					
-	Test mode:	Pre-scan all modes in section 5.3, and found the PC mode which is the worst mode, so only the data of worst mode was show on the test report.					
-	Test results:	Pass					

Shenzhen, China 518102



Measurement Data

Line:



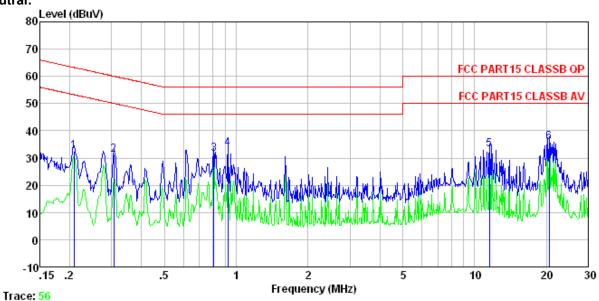
Condition : FCC PART15 CLASSB QP LISN-2012 LINE

Job No. : 378RF Test mode : PC mode Test Engineer: Jim

000	D110111001 .	_	LISN	Cabla		I:-:+	0ver		
	170							ъ .	
	۲req	Level	Factor	Loss	Level	Line	Limit	Kemark	
	MHz	dBu∀	d₿	dB	dBuV	dBuV	dB		
1	0.208	35, 56	-0.23	0.10	35, 43	63, 27	-27, 84	ΩP	
ò								-	
2	0.211	JU. 85	-0.22	0.10	JU. 13	60.90	-30.11	ŲΓ	
3	0.621	32.54	-0.20	0.10	32.44	56.00	-23.56	QΡ	
4	0.923	32.70	-0.21	0.10	32.59	56.00	-23.41	QP	
5			-0.44					-	
6			-0.64			60.00		-	



Neutral:



Condition : FCC PART15 CLASSB QP LISN-2012 NEUTRAL

Job No. : 378RF Test mode : PC mode Test Engineer: Jim

	Freq		LISN Factor					Remark
	MHz	dBuV	dB	d₿	dBuV	dBuV	dB	
1	0.208	32.55	-0.09	0.10	32.56	63.27	-30.71	QP
2	0.307	31.14	-0.09	0.10	31.15	60.06	-28.91	QP
3	0.804	31.64	-0.08	0.10	31.66	56.00	-24.34	QP
4	0.923	33.48	-0.09	0.10	33.49	56.00	-22.51	QP
5	11.559	33.15	-0.31	0.20	33.04	60.00	-26.96	QP
6	20.594	36.27	-0.54	0.21	35.94	60.00	-24.06	QP

Remark: If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss

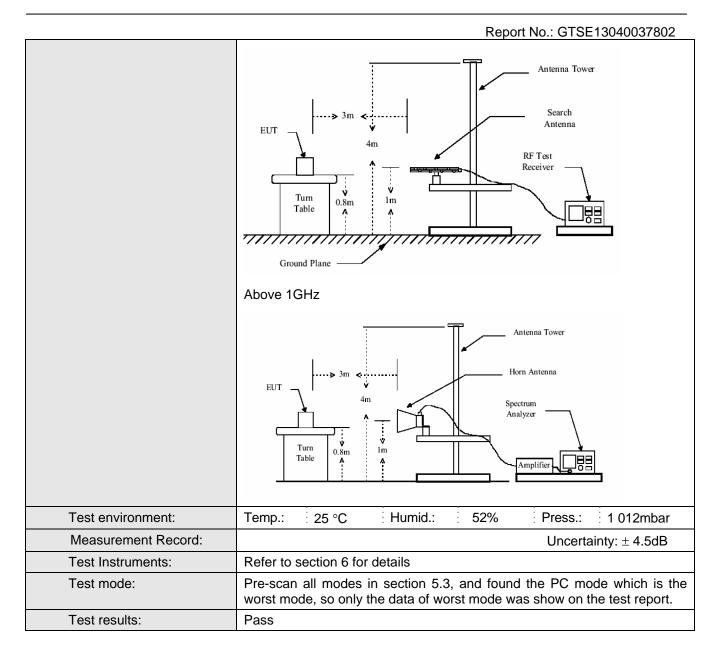
Shenzhen, China 518102



7.2 Radiated Emission

Test Requirement:	FCC Part15 B Section 15.109							
Test Method:	ANSI C63.4:2003							
Test Frequency Range:	30MHz to 5GHz	<u>7</u>						
Test site:	Measurement D	Distance: 3m	(Semi-Anecho	ic Chambe	r)			
Receiver setup:			5514	\ /D\4/				
	Frequency 30MHz-	Detector Quasi-pea	RBW k 120kHz	VBW 300kHz	Remark Quasi-peak Value			
	1GHz	•			·			
	Above 1GHz	Peak Peak	1MHz 1MHz	3MHz 10Hz	Peak Value Average Value			
Limit:								
Littit	Freque	ency	Limit (dBuV/	/m @3m)	Remark			
	30MHz-8	8MHz	40.0	0	Quasi-peak Value			
	88MHz-2	16MHz	43.5	0	Quasi-peak Value			
	216MHz-9	60MHz	46.0	0	Quasi-peak Value			
	960MHz-	·1GHz	54.0	0	Quasi-peak Value			
	Above 1GHz		54.0	0	Average Value			
	Above	OTIZ	74.0	0	Peak Value			
Test Procedure:	ground at a 3 determine th	B meter camb e position of	er. The table when the highest rac	was rotated diation.	0.8 meters above the 360 degrees to			
	2. The EUT wa antenna, whi tower.				ole-height antenna			
	ground to de	termine the r d vertical pol	naximum value	e of the field	r meters above the d strength. Both are set to make the			
	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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading.							
	5. The test-rece Bandwidth w			ak Detect F	unction and Specified			
	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 setup:	Below 1GHz							
		_	-					





Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

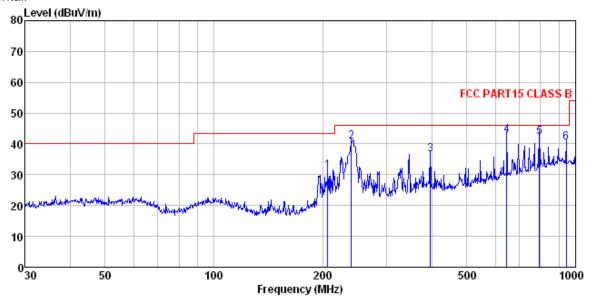
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor



Measurement Data

Below 1GHz

Horizontal:



Site

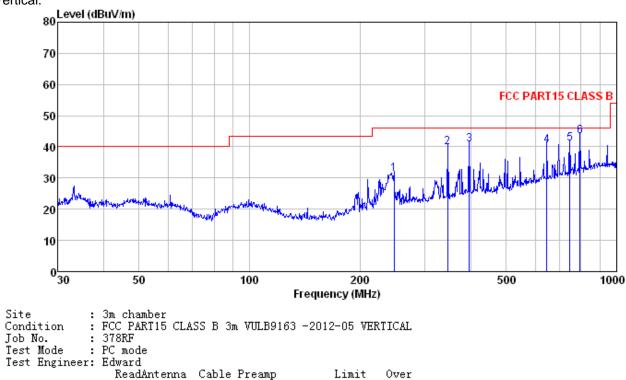
: 3m chamber : FCC PART15 CLASS B 3m VULB9163 -2012-05 HORIZONTAL Condition

. Foo PAR
Job No. : 378RF
Test Mode : PC mode
Test Engineer: Edward

000	Trietricor.	nawara							
			ReadAntenna						
	Freq	Level	Factor	Loss	ractor	Level	Line	Limit	Kemark
	MHz	dBu∀	dB/m	₫B	₫B	dBuV/m	dBuV/m	₫B	
1	206.398	47.65	13.80	1.88	32.14	31.19	43.50	-12.31	QP
2	239.987	55.73	15.07	2.07	32.16	40.71	46.00	-5.29	QP
3	396.242	48.57	17.01	2.83	31.90	36.51	46.00	-9.49	QP
4	645.120	49.00	21.06	3.89	31.11	42.84	46.00	-3.16	QP
5	793.396	46.17	22.96	4.43	31.31	42.25	46.00	-3.75	QP
6	942.131	42.62	23.95	5.01	31.21	40.37	46.00	-5.63	QP



Vertical:

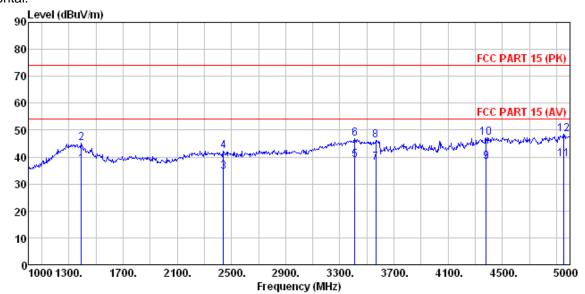


62(Euglueer:								
		Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	-								
	MHz	dBuV	dB/m	dВ	<u>аь</u>	dBuV/m	dBuV/m	dB	
		шч.							
1	247.682	46, 21	15.08	2, 11	32.16	31, 24	46.00	-14, 76	ΩP
2	346.809				32.03				
3	396.242				31.90				
4	645.120				31.11				
5	744.866				31.25				
6	793.396	41.31	22.90	ય.4૩	31.31	43.45	40.00	-2.55	QP



Above 1GHz

Horizontal:



Site Condition

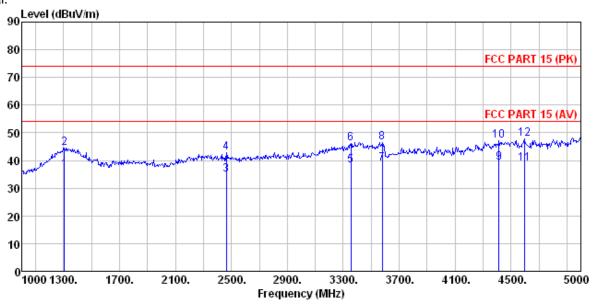
: 3m chamber : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL

Job No. : 378RF
Test mode : PC mode
Test Engineer: Edward

est	Freq	Read	Intenna Factor		Preamp Factor		Limit Line	Over Limit	Remark
	MHz	dBu∀	<u>dB</u> /m	₫B	<u>ab</u>	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
1 2 3 4 5 6 7 8 9	1390.000 1390.000 2440.000 3410.000 3410.000 3565.000 4380.000 4380.000	28.30 36.19 31.55 39.44 31.86 39.92 29.60 37.78 23.88 32.92	25.60 25.60 27.48 27.48 28.64 28.64 29.10 29.10 31.01	4.61 4.61 5.43 5.43 6.78 7.09 7.09 8.23 8.23	21. 35 21. 35 30. 06 30. 06 28. 36 27. 88 27. 88 24. 88 24. 88	42.29 38.92 46.98 37.91	74.00 54.00 74.00 54.00 74.00 54.00 54.00	-28.95 -19.60 -31.71 -15.08 -27.02 -16.09 -27.91	Average Peak Average Peak Average Peak Average
11 12	4955.000 4955.000	22.60 31.84	31.91 31.91	8.73 8.73	24.03 24.03	39.21 48.45		-14.79 -25.55	Average Peak



Vertical:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL Condition

Job No. : 378RF
Test mode : PC mode
Test Engineer: Edward

1650	mignicel.		Antenna	Cable	Preamp		Limit	Over		
	Freq		Factor		Factor		Line		Remark	
		20002		2000		20002	22110		1103114111	
	MHz	dBu∀	dB/m	B	dB	dBuV/m	dBuV/m	dB		
			—,							
1	1305.000	26.69	25.64	4.55	20.50	36.38	54.00	-17.62	Average	
2	1305.000	34.89	25.64	4.55	20.50	44.58	74.00	-29.42	Peak	
3	2465.000	31.77	27.49	5.45	29.99	34.72	54.00	-19.28	Average	
4	2465.000	39.82	27.49	5.45	29.99	42.77	74.00	-31.23	Peak	
5	3355.000	31.49	28.48	6.68		38.15			Average	
6	3355.000	39.64	28.48	6.68	28.50	46.30		-27.70		
7	3580.000	30.60	29.11	7.11	27.81	39.01			Average	
8	3580.000		29.11	7.11	27.81	46.66		-27.34		
9	4415.000		31.13	8.26		39.15			Average	
10	4415.000	32.70	31.13	8.26				-26.68		
11	4595.000		31.51	8.42					Average	
12	4595,000	32, 45	31, 51	8.42	24.44	47, 94	74.00	-26, 06	Peak	

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