



**Shenzhen EBO Technology Co., Ltd.**

1-4F, Huafeng Science Park, Xin'an Sixth Road, 82<sup>th</sup> District, Bao'an,  
Shenzhen, China.  
Telephone: +86-755-29451282,  
Fax: +86-755-22639141

Report No.: FCC12-RTE112903  
Page 1 of 18

# TEST REPORT

**Applicant:** Archos SA  
**Address of Applicant:** 12 Rue Ampere 91430 Igny, France  
**Equipment Under Test (EUT)**  
Product Name: LUDO  
Model No.: 1001  
Trade Mark: Archos  
**FCC ID:** SOV1001  
**Applicable standards:** FCC CFR Title 47 Part 15 Subpart B:2011  
**Date of sample receipt:** Jun. 19, 2012  
**Date of Test:** Jun. 20-28, 2012  
**Date of report issued:** Jun. 29, 2012  
**Test Result :** Pass \*

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

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives. The protection requirements with respect to electromagnetic compatibility contained in Directive 1999/5/EC are considered.

Authorized Signature:

Kavin Yu

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 EBO 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. Any mention of EBO International Electrical Approvals or testing done by EBO International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by EBO International Electrical Approvals in writing.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



## Shenzhen EBO Technology Co., Ltd.

Report No.: FCC12-RTE112903

Page 2 of 18

### 2 Version

Version No.	Date	Description
00	November 29, 2012	Original

Prepared By:

*Hank. Jan.*

Date:

November 29, 2012

Project Engineer

Check By:

*Hans. Hu*

Date:

November 29, 2012

Reviewer

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



### 3 Contents

1	COVER PAGE.....	1
2	VERSION .....	2
3	CONTENTS .....	3
4	TEST SUMMARY .....	4
5	GENERAL INFORMATION .....	5
5.1	CLIENT INFORMATION.....	5
5.2	GENERAL DESCRIPTION OF EUT .....	5
5.3	TEST MODE AND TEST VOLTAGE .....	5
5.4	DESCRIPTION OF SUPPORT UNITS .....	5
5.5	DEVIATION FROM STANDARDS .....	5
5.6	ABNORMALITIES FROM STANDARD CONDITIONS.....	5
5.7	TEST FACILITY .....	6
5.8	TEST LOCATION.....	6
6	TEST INSTRUMENTS LIST .....	7
7	TEST RESULTS AND MEASUREMENT DATA.....	8
7.1	RADIATED EMISSION .....	8
7.2	CONDUCTED EMISSIONS .....	14
8	TEST SETUP PHOTO .....	17
9	EUT CONSTRUCTIONAL DETAILS .....	18

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.eботek.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.eботek.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



## 4 Test Summary

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

*Pass: The EUT comply with the essential requirements in the standard.*



## 5 General Information

### 5.1 Client Information

Applicant:	Archos SA
Address of Applicant:	12 Rue Ampere 91430 Igny, France
Manufacturer :	Archos SA
Address of Manufacturer :	12 Rue Ampere 91430 Igny, France

### 5.2 General Description of EUT

Product Name:	LUDO
Model No.:	1001
Power supply:	Model No.: ADS-36RJ-12 12030G Input: AC 100-240V~50/60Hz 0.8A MAX Output: 12V 2.5A

### 5.3 Test mode and Test voltage

<b>Test mode:</b>	
SD Card Playing mode	Keep the EUT in Playing mode
Video Record mode	Keep the EUT in Video Recording mode
USB Playing mode	Keep the EUT in USB playing mode
PC mode	Keep the EUT in exchanging data mode.
<b>Test voltage:</b>	
AC 120V/60Hz	

### 5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number
HP	Printer	CB495A	05257893
DELL	PC	OPTIPLEX745	GTS312
DELL	MONITOR	E178FPC	N/A
DELL	KEYBOARD	SK-8115	N/A
DELL	MOUSE	MOC5UO	N/A

### 5.5 Deviation from Standards

None.
-------

### 5.6 Abnormalities from Standard Conditions

None.
-------



## 5.7 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 fully 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) —Registration No.: 9079A-1**

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.

## 5.8 Test Location

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



## 6 Test Instruments list

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. 30 2011	Mar. 29 2013
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. 10 2012	Mar. 09 2013
5	Double -ridged waveguide horn	SCHWARZBECK	9120D	GTS208	Mar. 10 2012	Mar. 09 2013
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. 06 2012	Jul. 05 2013

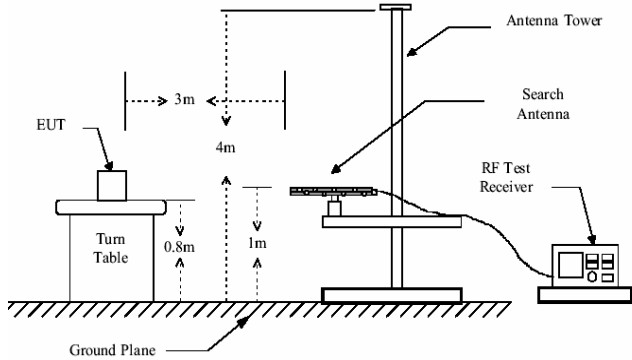
Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS252	Sep. 08 2011	Sep. 07 2013
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jul. 03 2012	Jul. 02 2013
3	10dB Pulse 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
8	Thermo meter	KTJ	TA328	GTS233	Jul. 05 2012	Jul. 06 2013

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.eботek.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.eботek.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



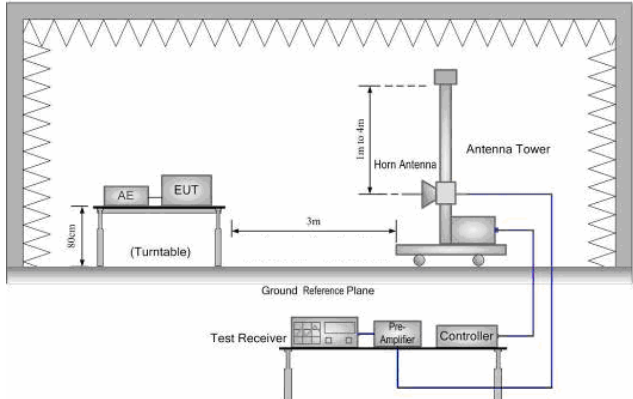
## 7 Test results and Measurement Data

### 7.1 Radiated Emission

Test Requirement:	FCC Part15 B Section 15.109																								
Test Method:	ANSI C63.4:2009																								
Test Frequency Range:	30MHz to 8000MHz																								
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)																								
Receiver setup:	<table><tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Value</td></tr><tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>120kHz</td><td>300kHz</td><td>Quasi-peak</td></tr><tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak</td></tr><tr><td>Average</td><td>1MHz</td><td>3MHz</td><td>Average</td></tr></table>					Frequency	Detector	RBW	VBW	Value	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak	Above 1GHz	Peak	1MHz	3MHz	Peak	Average	1MHz	3MHz	Average	
Frequency	Detector	RBW	VBW	Value																					
30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak																					
Above 1GHz	Peak	1MHz	3MHz	Peak																					
	Average	1MHz	3MHz	Average																					
Limit:	<table><tr><td>Frequency</td><td>Limit (dBμV/m @3m)</td><td>Value</td></tr><tr><td>30MHz-88MHz</td><td>40.00</td><td>Quasi-peak</td></tr><tr><td>88MHz-216MHz</td><td>43.50</td><td>Quasi-peak</td></tr><tr><td>216MHz-960MHz</td><td>46.00</td><td>Quasi-peak</td></tr><tr><td>960MHz-1GHz</td><td>54.00</td><td>Quasi-peak</td></tr><tr><td rowspan="2">Above 1GHz</td><td>54.00</td><td>Average</td></tr><tr><td>74.00</td><td>Peak</td></tr></table>					Frequency	Limit (dBμV/m @3m)	Value	30MHz-88MHz	40.00	Quasi-peak	88MHz-216MHz	43.50	Quasi-peak	216MHz-960MHz	46.00	Quasi-peak	960MHz-1GHz	54.00	Quasi-peak	Above 1GHz	54.00	Average	74.00	Peak
Frequency	Limit (dBμV/m @3m)	Value																							
30MHz-88MHz	40.00	Quasi-peak																							
88MHz-216MHz	43.50	Quasi-peak																							
216MHz-960MHz	46.00	Quasi-peak																							
960MHz-1GHz	54.00	Quasi-peak																							
Above 1GHz	54.00	Average																							
	74.00	Peak																							
Test setup:	<div>Below 1GHz</div> <div></div> <div>Above 1GHz</div>																								





	
<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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.</li> </ol>
<p>Test environment:</p>	<p>Temp.: 25 °C Humid.: 52% Press.: 1 012mbar</p>
<p>Test Instruments:</p>	<p>Refer to section 6 for details</p>
<p>Test mode:</p>	<p>Refer to section 5.3 for details, so only show the test data of the worst case mode.</p>
<p>Test results:</p>	<p>Pass</p>

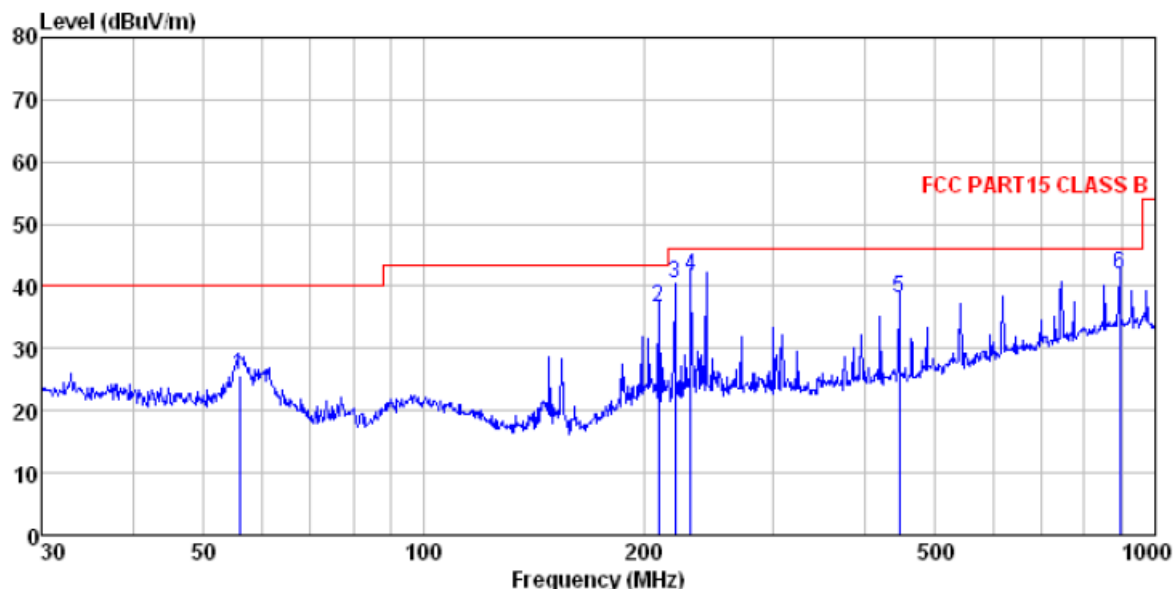
## Measurement Data

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



**Below 1GHz**

Horizontal:



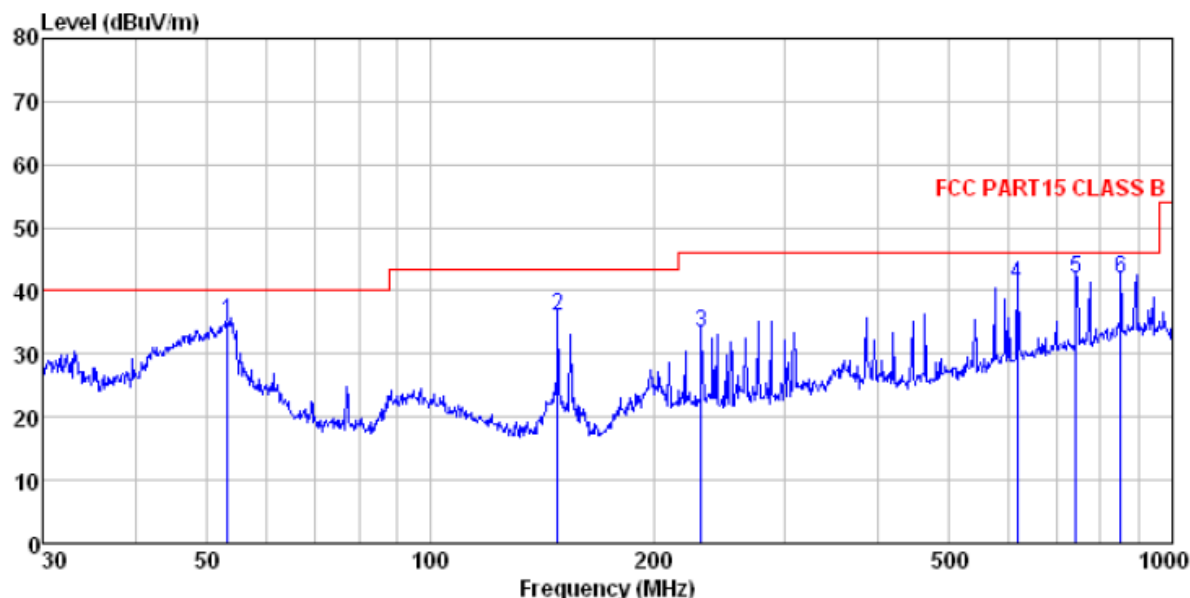
Site : 3m chamber  
Condition : FCC PART15 CLASS B 3m VULB9163 -2012-05 HORIZONTAL  
Job No. : 1350RF  
Test Mode : PC mode  
Test Engineer: Blue

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	56.001	40.72	16.04	0.83	31.95	25.64	40.00	-14.36	QP
2	209.313	52.93	13.90	1.89	32.14	36.58	43.50	-6.92	QP
3	220.617	56.31	14.26	1.96	32.15	40.38	46.00	-5.62	QP
4	231.718	57.11	14.78	2.02	32.15	41.76	46.00	-4.24	QP
5	446.414	49.17	17.57	3.07	31.73	38.08	46.00	-7.92	QP
6	893.857	44.30	24.05	4.83	31.19	41.99	46.00	-4.01	QP

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.eботek.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.eботek.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Vertical:



Site : 3m chamber  
Condition : FCC PART15 CLASS B 3m VULB9163 -2012-05 VERTICAL  
Job No. : 1350RF  
Test Mode : PC mode  
Test Engineer: Blue

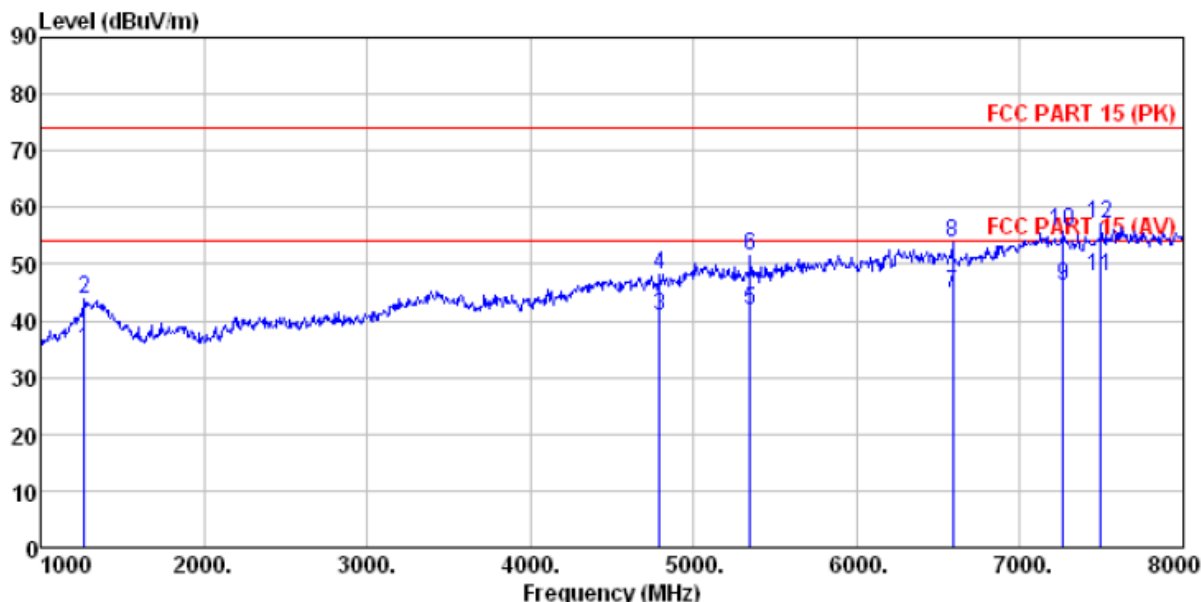
	Freq	ReadAntenna	Cable	Preamp		Limit	Over	
	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	53.318	50.02	16.19	0.80	31.95	35.06	40.00	-4.94 QP
2	148.441	55.10	11.29	1.56	31.98	35.97	43.50	-7.53 QP
3	231.718	48.85	14.78	2.02	32.15	33.50	46.00	-12.50 QP
4	618.537	47.72	20.71	3.80	31.07	41.16	46.00	-4.84 QP
5	742.259	46.55	22.34	4.24	31.25	41.88	46.00	-4.12 QP
6	851.035	44.95	23.60	4.66	31.25	41.96	46.00	-4.04 QP

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotek.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotek.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Above 1GHz

Horizontal:



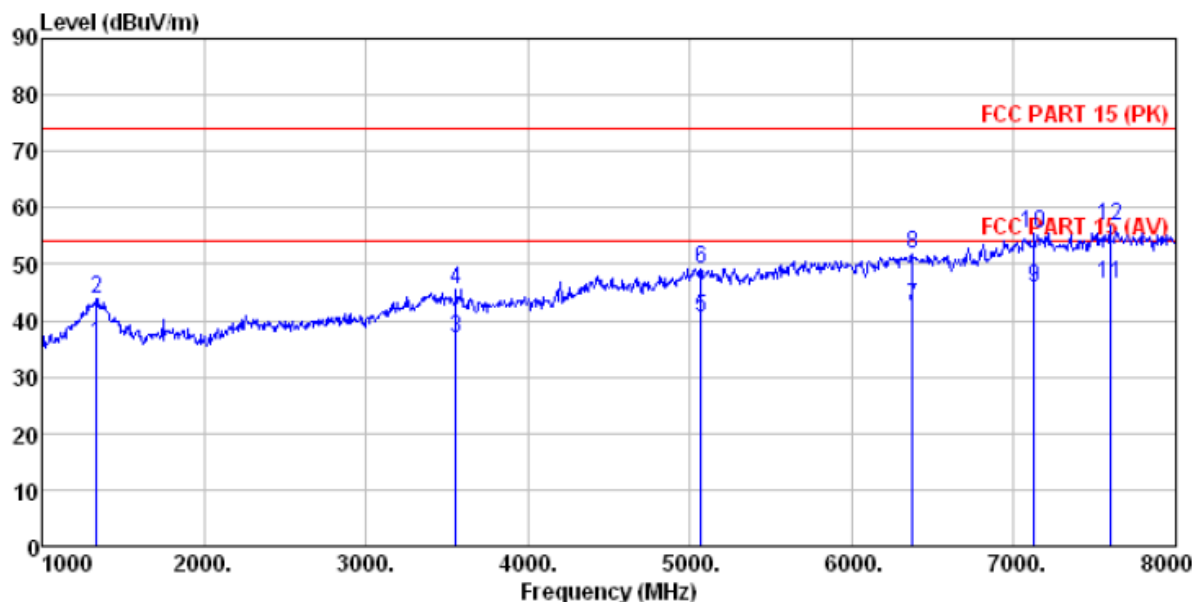
Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL  
Job No. : 1350RF  
Test mode : PC mode  
Test Engineer: Blue

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1266.000	24.60	25.56	4.52	19.94	34.74	54.00	-19.26	Average
2	1266.000	33.86	25.56	4.52	19.94	44.00	74.00	-30.00	Peak
3	4794.000	24.53	31.76	8.59	24.20	40.68	54.00	-13.32	Average
4	4794.000	32.14	31.76	8.59	24.20	48.29	74.00	-25.71	Peak
5	5347.000	24.69	31.75	9.29	23.84	41.89	54.00	-12.11	Average
6	5347.000	34.34	31.75	9.29	23.84	51.54	74.00	-22.46	Peak
7	6586.000	25.34	33.86	11.00	25.31	44.89	54.00	-9.11	Average
8	6586.000	34.09	33.86	11.00	25.31	53.64	74.00	-20.36	Peak
9	7265.000	24.61	36.28	11.69	26.58	46.00	54.00	-8.00	Average
10	7265.000	34.27	36.28	11.69	26.58	55.66	74.00	-18.34	Peak
11	7496.000	26.48	36.66	11.82	27.22	47.74	54.00	-6.26	Average
12	7496.000	35.71	36.66	11.82	27.22	56.97	74.00	-17.03	Peak

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



Vertical:



Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL  
Job No. : 1350RF  
Test mode : PC mode  
Test Engineer: Blue

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1336.000	26.40	25.69	4.57	20.79	35.87	54.00	-18.13	Average
2	1336.000	34.29	25.69	4.57	20.79	43.76	74.00	-30.24	Peak
3	3555.000	28.50	29.09	7.07	27.95	36.71	54.00	-17.29	Average
4	3555.000	37.29	29.09	7.07	27.95	45.50	74.00	-28.50	Peak
5	5067.000	23.74	32.01	8.85	23.93	40.67	54.00	-13.33	Average
6	5067.000	32.38	32.01	8.85	23.93	49.31	74.00	-24.69	Peak
7	6376.000	23.14	33.43	10.73	24.69	42.61	54.00	-11.39	Average
8	6376.000	32.32	33.43	10.73	24.69	51.79	74.00	-22.21	Peak
9	7125.000	24.50	35.93	11.60	26.26	45.77	54.00	-8.23	Average
10	7125.000	34.25	35.93	11.60	26.26	55.52	74.00	-18.48	Peak
11	7594.000	25.27	36.81	11.87	27.44	46.51	54.00	-7.49	Average
12	7594.000	35.48	36.81	11.87	27.44	56.72	74.00	-17.28	Peak

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

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotek.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotek.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



## 7.2 Conducted Emissions

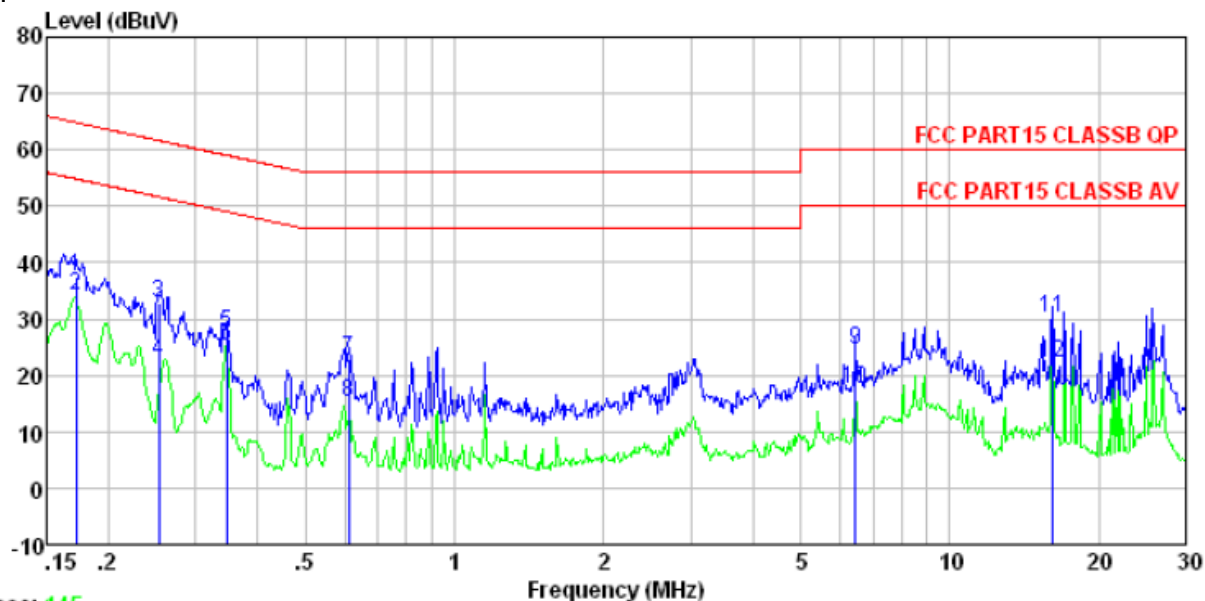
Test Requirement:	FCC Part15 B Section 15.107														
Test Method:	ANSI C63.4:2009														
Test Frequency Range:	150kHz to 30MHz														
Class / Severity:	Class B														
Receiver setup:	RBW=9kHz, VBW=30kHz														
Limit:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBμV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>0.5-30</td><td>60</td><td>50</td></tr></table>	Frequency range (MHz)	Limit (dBμV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	0.5-30	60	50
Frequency range (MHz)	Limit (dBμV)														
	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:	<div><p style="text-align: center;"><b>Reference Plane</b></p><p style="text-align: center;">Test table/Insulation plane</p><p><i>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</i></p></div>														
Test procedure	<div><div>1.</div><div>The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment.</div></div> <div><div>2.</div><div>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs).</div></div> <div><div>3.</div><div>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: 2009 on conducted measurement.</div></div>														
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1 012mbar														
Test Instruments:	Refer to section 6 for details														
Test mode:	Refer to section 5.3 for details, so only show the test data of the worst case mode.														
Test results:	Pass														

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



## Measurement Data

Line:



Trace: 145

Condition : FCC PART15 CLASSB QP LISN-2012 LINE

Job No. : 1350RF

Test Mode : PC mode

Test Engineer: Edward

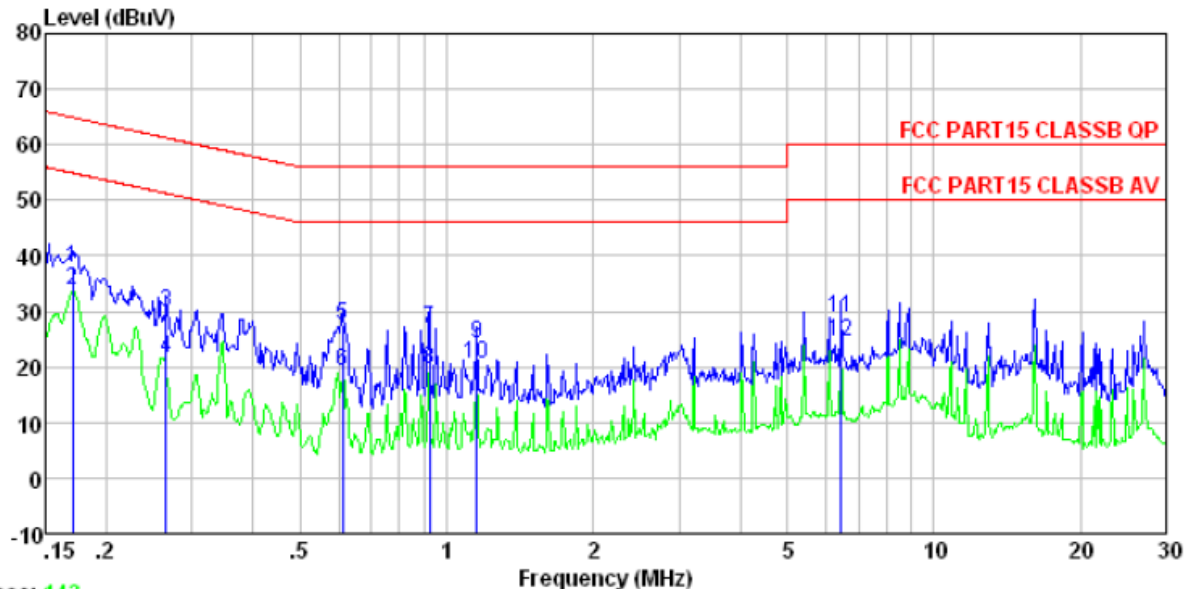
	Freq	Read	LISN	Cable	Level	Limit	Over	
	MHz	Level	Factor	Loss	dBuV	Line	Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.172	37.68	-0.26	0.10	37.52	64.86	-27.34	QP
2	0.172	34.20	-0.26	0.10	34.04	54.86	-20.82	Average
3	0.253	32.85	-0.23	0.10	32.72	61.64	-28.92	QP
4	0.253	22.60	-0.23	0.10	22.47	51.64	-29.17	Average
5	0.346	27.79	-0.22	0.10	27.67	59.05	-31.38	QP
6	0.346	25.36	-0.22	0.10	25.24	49.05	-23.81	Average
7	0.611	23.13	-0.20	0.10	23.03	56.00	-32.97	QP
8	0.611	15.44	-0.20	0.10	15.34	46.00	-30.66	Average
9	6.454	24.75	-0.33	0.13	24.55	60.00	-35.45	QP
10	6.454	17.63	-0.33	0.13	17.43	50.00	-32.57	Average
11	16.140	30.54	-0.53	0.20	30.21	60.00	-29.79	QP
12	16.140	22.71	-0.53	0.20	22.38	50.00	-27.62	Average

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.eботek.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.eботek.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."





Neutral:



Trace: 143

Condition : FCC PART15 CLASSB QP LISN-2012 NEUTRAL  
Job No. : 1350RF  
Test Mode : PC mode  
Test Engineer: Edward

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.170	37.93	-0.13	0.10	37.90	64.94	-27.04	QP
2	0.170	33.84	-0.13	0.10	33.81	54.94	-21.13	Average
3	0.266	29.89	-0.09	0.10	29.90	61.25	-31.35	QP
4	0.266	21.63	-0.09	0.10	21.64	51.25	-29.61	Average
5	0.611	27.60	-0.08	0.10	27.62	56.00	-28.38	QP
6	0.611	19.28	-0.08	0.10	19.30	46.00	-26.70	Average
7	0.923	26.93	-0.09	0.10	26.94	56.00	-29.06	QP
8	0.923	19.53	-0.09	0.10	19.54	46.00	-26.46	Average
9	1.153	24.07	-0.09	0.10	24.08	56.00	-31.92	QP
10	1.153	20.41	-0.09	0.10	20.42	46.00	-25.58	Average
11	6.454	28.97	-0.19	0.13	28.91	60.00	-31.09	QP
12	6.454	24.68	-0.19	0.13	24.62	50.00	-25.38	Average

Notes:

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

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.eботek.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.eботek.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."