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Report No.: FCC12-RTE062502
Page 1 of 18

TEST REPORT

Applicant: Lexibook America
Address of Applicant: C/O NATXIS PRAMEX INTERNATIONAL – NORTH AMERICA
1251 avenue of the Americas 34th floor

Equipment Under Test (EUT)

Product Name: Tablet
Model No.: MFC155EN
Trade mark: Lexibook
FCC ID: UU8-MFC01
Applicable standards: FCC CFR Title 47 Part 15 Subpart B:2010
Date of sample receipt: June 19, 2012
Date of Test: June 19-23, 2012
Date of report issued: June 25, 2012
Test Result : PASS *

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

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.
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2 Version

Version No.	Date	Description
00	June 25, 2012	Original

Prepared by:

Oscar Li

Date:

June 25, 2012

Project Engineer

Reviewed by:

Hans Hu

Date:

June 25, 2012

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:	Lexibook America
Address of Applicant:	C/O NATXIS PRAMEX INTERNATIONAL – NORTH AMERICA 1251 avenue of the Americas 34th floor

5.2 General Description of E.U.T.

Product Name:	Tablet
Model No.:	MFC155EN
Power supply:	MODEL: SJ-0520-U Input: AC 100-240V 50/60Hz 0.5A Output: DC 5.0V 2.0A DC 3.7V Li-ion Battery

5.3 Test mode and voltage

Test mode:	
PC mode	Keep the EUT in communicating with PC mode.
SD Play mode	Keep the EUT in playing file mode.
Test voltage:	AC 120V/60Hz

5.4 Test Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none">● 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) 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

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.

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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	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 29 2012	Mar. 28 2013
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 04 2011	Jul. 03 2012
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 26 2012	Feb. 25 2013
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
6	Coaxial Cable	GTS	N/A	GTS213	Mar. 31 2012	Mar. 30 2013
7	Coaxial Cable	GTS	N/A	GTS211	Mar. 31 2012	Mar. 30 2013
8	Coaxial cable	GTS	N/A	GTS210	Mar. 31 2012	Mar. 30 2013
9	Coaxial Cable	GTS	N/A	GTS212	Mar. 31 2012	Mar. 30 2013
10	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 04 2011	Jul. 03 2012

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	Jul. 04 2011	Jul. 03 2012
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jul. 04 2011	Jul. 03 2012
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 04 2011	Jul. 03 2012
4	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 04 2011	Jul. 03 2012
5	Coaxial Cable	GTS	N/A	GTS227	Mar. 31 2012	Mar. 30 2013
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

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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														
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBμV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <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> </tbody> </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 procedure	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. 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). 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 setup:	<p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1 012mbar														
Measurement Record:	Uncertainty: ± 3.45dB														
Test Instruments:	Refer to section 6 for details														

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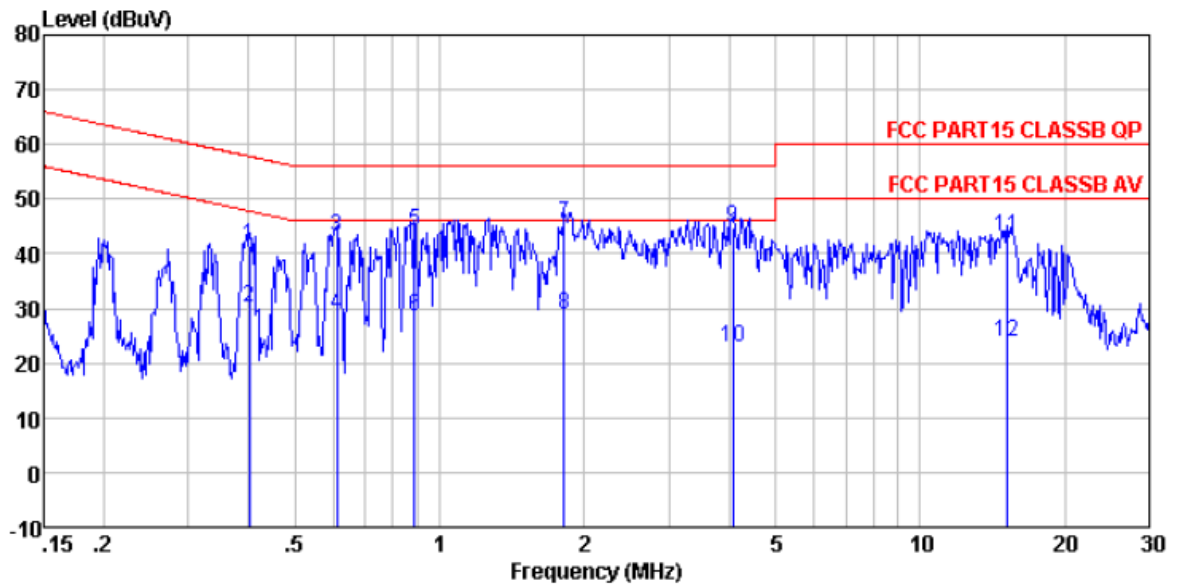


Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

worst case

Line:



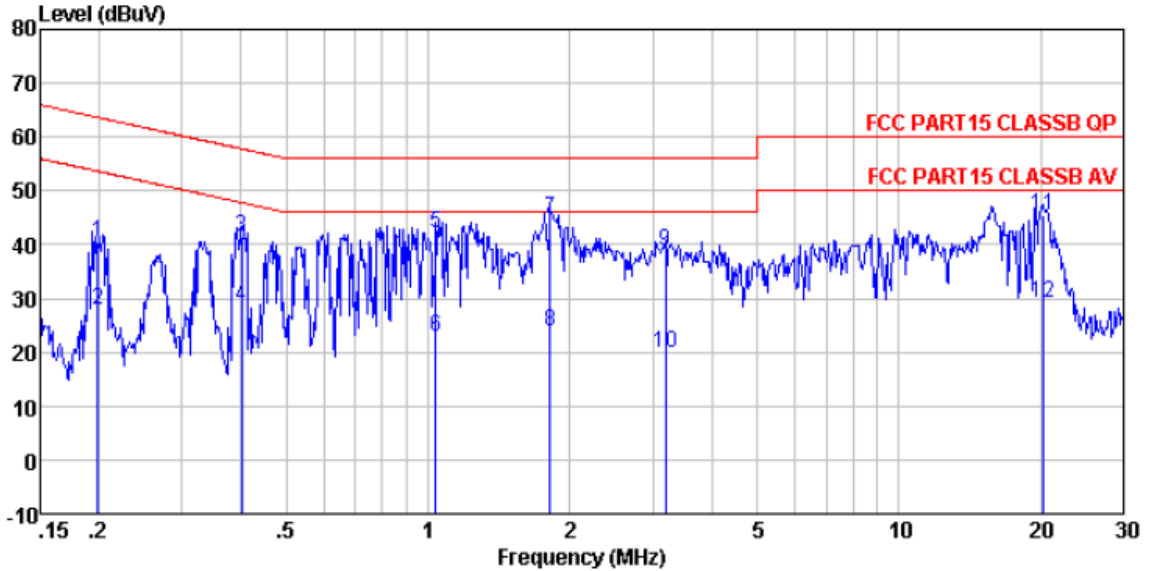
Condition : FCC PART15 CLASSB QP LISN(2011) LINE
Job No. : 639RF
Test Mode : PC mode
Test Engineer: Blue

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.402	40.96	0.58	0.10	41.64	57.81	-16.17	QP
2	0.402	29.64	0.58	0.10	30.32	47.81	-17.49	Average
3	0.611	42.37	0.53	0.10	43.00	56.00	-13.00	QP
4	0.611	28.14	0.53	0.10	28.77	46.00	-17.23	Average
5	0.885	43.47	0.49	0.10	44.06	56.00	-11.94	QP
6	0.885	27.98	0.49	0.10	28.57	46.00	-17.43	Average
7	1.819	44.96	0.41	0.10	45.47	56.00	-10.53	QP
8	1.819	28.34	0.41	0.10	28.85	46.00	-17.15	Average
9	4.070	44.27	0.32	0.10	44.69	56.00	-11.31	QP
10	4.070	22.34	0.32	0.10	22.76	46.00	-23.24	Average
11	15.146	42.68	0.18	0.20	43.06	60.00	-16.94	QP
12	15.146	23.47	0.18	0.20	23.85	50.00	-26.15	Average

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Neutral:



Condition : FCC PART15 CLASSB QP LISN(2011) NEUTRAL
 Job No. : 639RF
 Test Mode : PC mode
 Test Engineer: Blue

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.199	39.80	0.66	0.10	40.56	63.67	-23.11	QP
2	0.199	27.21	0.66	0.10	27.97	53.67	-25.70	Average
3	0.402	40.64	0.58	0.10	41.32	57.81	-16.49	QP
4	0.402	27.68	0.58	0.10	28.36	47.81	-19.45	Average
5	1.037	41.63	0.47	0.10	42.20	56.00	-13.80	QP
6	1.037	22.39	0.47	0.10	22.96	46.00	-23.04	Average
7	1.819	44.20	0.41	0.10	44.71	56.00	-11.29	QP
8	1.819	23.37	0.41	0.10	23.88	46.00	-22.12	Average
9	3.190	38.23	0.35	0.10	38.68	56.00	-17.32	QP
10	3.190	19.39	0.35	0.10	19.84	46.00	-26.16	Average
11	20.162	45.15	0.14	0.21	45.50	60.00	-14.50	QP
12	20.162	28.67	0.14	0.21	29.02	50.00	-20.98	Average

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

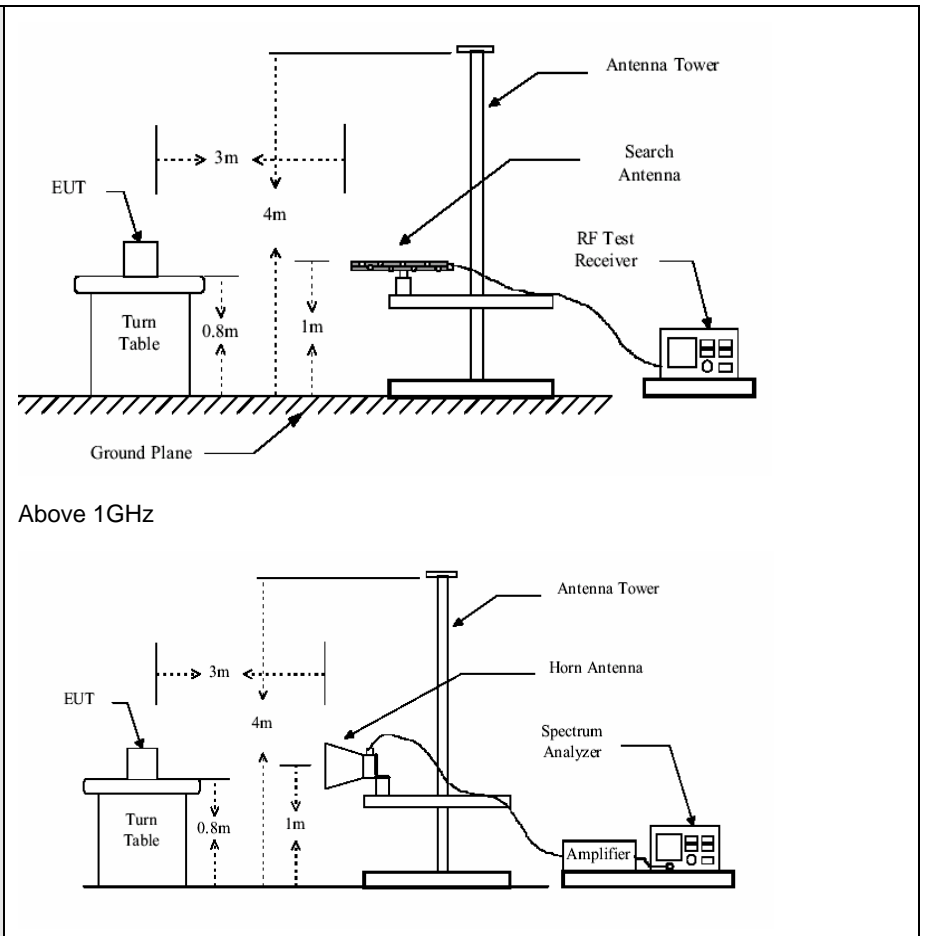
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7.2 Radiated Emission

Test Requirement:	FCC Part15 B Section 15.109				
Test Method:	ANSI C63.4:2003				
Test Frequency Range:	30MHz to 5GHz				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Av	1MHz	10Hz	Average Value
Limit:	Frequency	Limit (dBuV/m @3m)		Remark	
	30MHz-88MHz	40.0		Quasi-peak Value	
	88MHz-216MHz	43.5		Quasi-peak Value	
	216MHz-960MHz	46.0		Quasi-peak Value	
	960MHz-1GHz	54.0		Quasi-peak Value	
	Above 1GHz	54.0		Average Value	
		74.0		Peak Value	
Test Procedure:	<ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 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. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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				

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	 <p>Above 1GHz</p>
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1 012mbar
Measurement Record:	Uncertainty: ± 4.5dB
Test Instruments:	Refer to section 6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Note:

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

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

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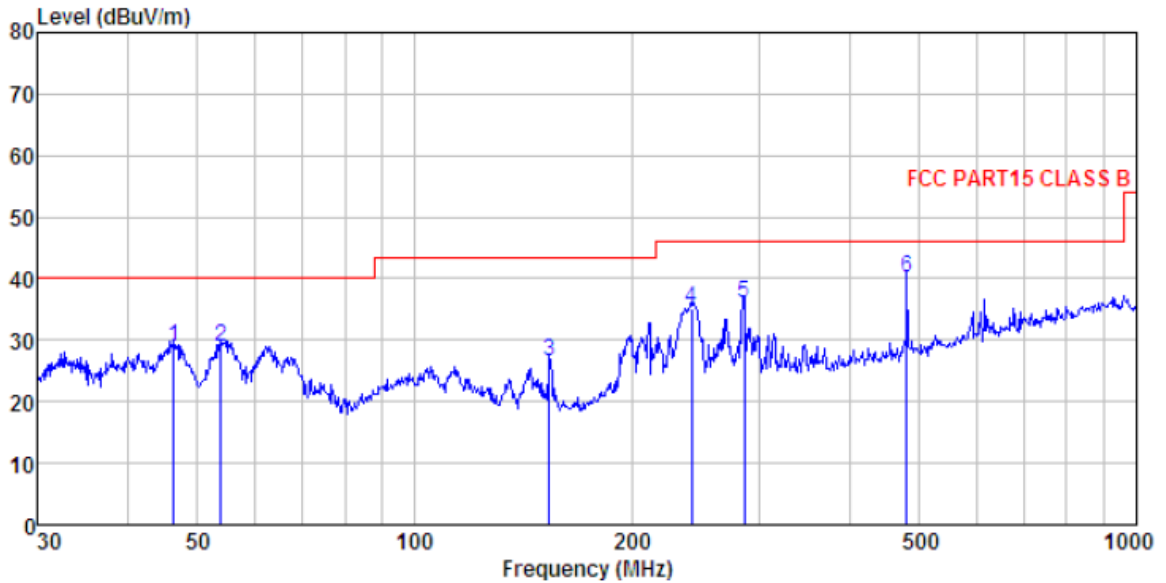


Measurement Data

worst case

Below 1GHz

Horizontal:



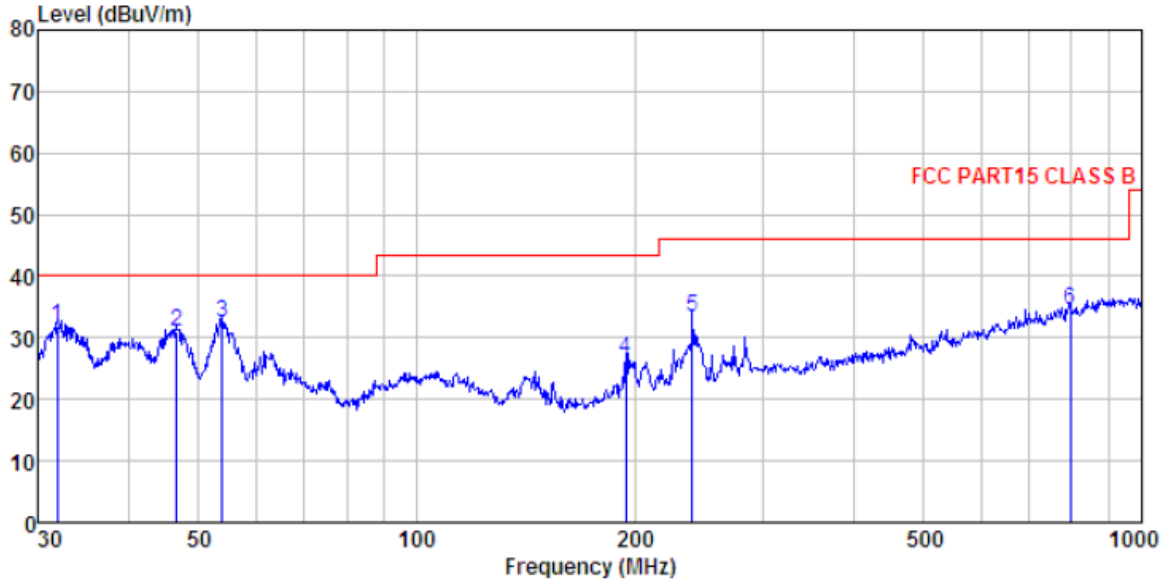
Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163 -2012-05 HORIZONTAL
 Job No. : 639RF
 Test Mode : PC mode
 Test Engineer: Hank

	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Loss	Factor	dB	Line	Limit	Remark
		dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	46.340	43.68	16.55	0.73	31.99	28.97	40.00	-11.03 QP
2	53.882	43.90	16.16	0.81	31.95	28.92	40.00	-11.08 QP
3	153.739	45.59	11.48	1.59	32.00	26.66	43.50	-16.84 QP
4	241.676	50.27	15.09	2.08	32.16	35.28	46.00	-10.72 QP
5	285.978	50.20	15.81	2.29	32.18	36.12	46.00	-9.88 QP
6	480.528	50.55	18.07	3.22	31.62	40.22	46.00	-5.78 QP

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Vertical:



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163 -2012-05 VERTICAL
 Job No. : 639RF
 Test Mode : PC mode
 Test Engineer: Hank

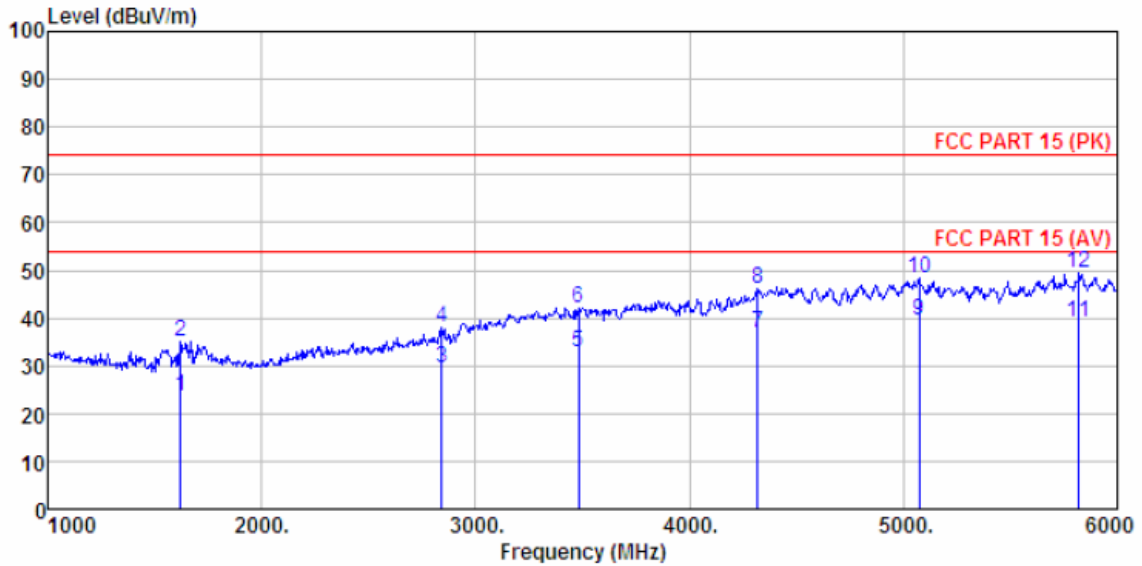
	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	31.955	47.77	15.72	0.57	32.06	32.00	40.00	-8.00	QP
2	46.666	45.73	16.55	0.74	31.99	31.03	40.00	-8.97	QP
3	53.882	47.43	16.16	0.81	31.95	32.45	40.00	-7.55	QP
4	194.453	43.33	13.57	1.81	32.12	26.59	43.50	-16.91	QP
5	239.987	48.37	15.07	2.07	32.16	33.35	46.00	-12.65	QP
6	796.183	38.45	23.01	4.45	31.31	34.60	46.00	-11.40	QP

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Above 1GHz

Horizontal:



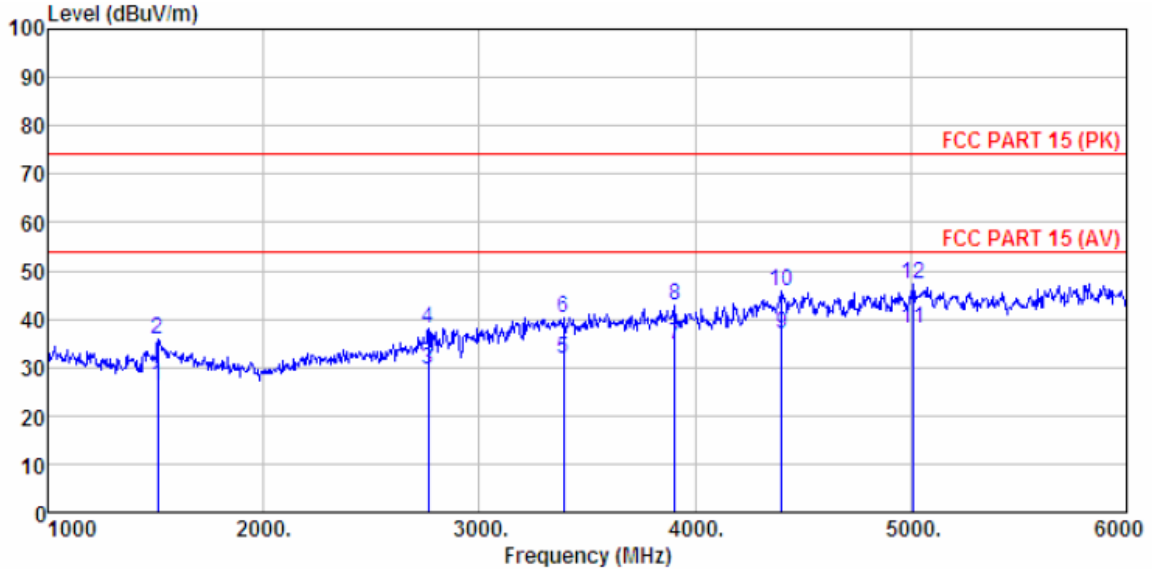
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL
 Job No. : 639RF
 Test Mode : PC mode
 Test Engineer: Sam

	Freq	ReadLevel	Antenna	Cable	Preamp	Limit	Over	
	MHz	dBuV	dB/m	Loss	Factor	Level	Line	Limit
		dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	1620.000	20.37	24.93	4.76	26.44	23.62	54.00	-30.38 Average
2	1620.000	31.65	24.93	4.76	26.44	34.90	74.00	-39.10 Peak
3	2840.000	25.37	28.39	5.79	30.16	29.39	54.00	-24.61 Average
4	2840.000	34.09	28.39	5.79	30.16	38.11	74.00	-35.89 Peak
5	3480.000	25.34	28.90	6.91	28.15	33.00	54.00	-21.00 Average
6	3480.000	34.51	28.90	6.91	28.15	42.17	74.00	-31.83 Peak
7	4320.000	23.17	30.77	8.17	25.23	36.88	54.00	-17.12 Average
8	4320.000	32.44	30.77	8.17	25.23	46.15	74.00	-27.85 Peak
9	5075.000	22.47	32.02	8.87	23.91	39.45	54.00	-14.55 Average
10	5075.000	31.37	32.02	8.87	23.91	48.35	74.00	-25.65 Peak
11	5820.000	20.16	32.68	9.95	23.86	38.93	54.00	-15.07 Average
12	5820.000	30.60	32.68	9.95	23.86	49.37	74.00	-24.63 Peak

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Vertical:



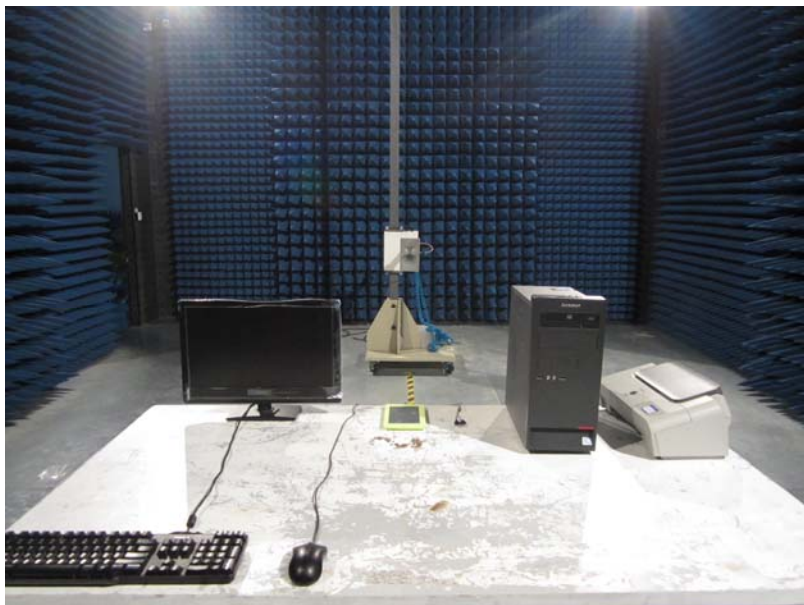
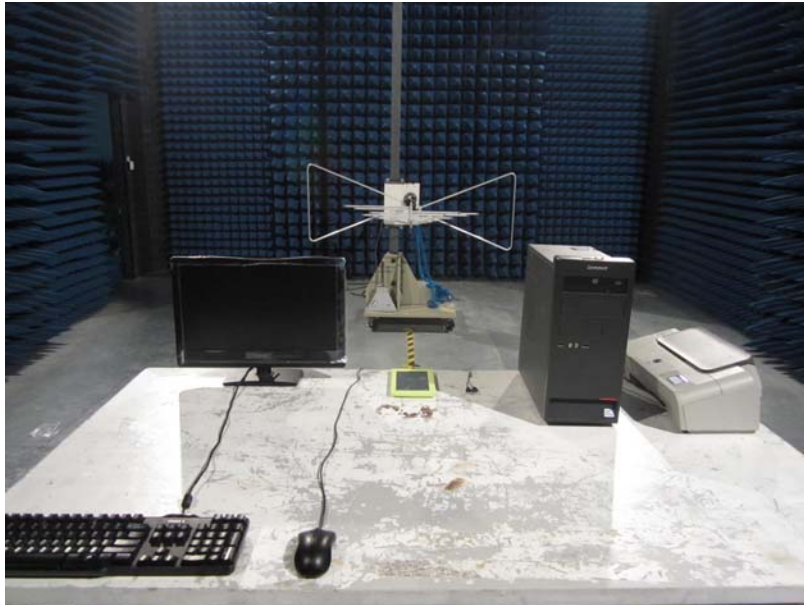
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL
 Job No. : 639RF
 Test Mode : PC mode
 Test Engineer: Sam

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1510.000	20.38	25.20	4.69	24.02	26.25	54.00	-27.75	Average
2	1510.000	29.93	25.20	4.69	24.02	35.80	74.00	-38.20	Peak
3	2765.000	25.67	28.31	5.73	30.27	29.44	54.00	-24.56	Average
4	2765.000	34.41	28.31	5.73	30.27	38.18	74.00	-35.82	Peak
5	3390.000	24.64	28.57	6.74	28.36	31.59	54.00	-22.41	Average
6	3390.000	33.24	28.57	6.74	28.36	40.19	74.00	-33.81	Peak
7	3905.000	24.35	29.52	7.69	26.94	34.62	54.00	-19.38	Average
8	3905.000	32.41	29.52	7.69	26.94	42.68	74.00	-31.32	Peak
9	4400.000	22.48	31.09	8.25	24.77	37.05	54.00	-16.95	Average
10	4400.000	31.29	31.09	8.25	24.77	45.86	74.00	-28.14	Peak
11	5010.000	21.37	31.96	8.78	23.98	38.13	54.00	-15.87	Average
12	5010.000	30.30	31.96	8.78	23.98	47.06	74.00	-26.94	Peak

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8 Test Setup Photo

Radiated Emission



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Conducted Emission



9 EUT Constructional Details

Reference to the test report No. : FCC12-RTE062501.

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