



# FCC PART 15B

# TEST REPORT

For

# SHENZHEN TENDA TECHNOLOGY CO.,LTD.

Tenda Industrial Park, No 34-1, Shilong Rd., Shiyan Town, Bao'an District, Shenzhen, China

**FCC ID: V7TD151** 

<u> </u>		1	
<b>Report Type:</b> Original Report		<b>Product Type:</b> ADSL Router	
Test Engineer:	Leon C	Chen	leon then
Report Number:	R2DG1	130813005-00A	
Report Date:	2013-0	9-22	
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### **GENERAL INFORMATION**

### **Product Description for Equipment under Test (EUT)**

The *SHENZHEN TENDA TECHNOLOGY CO.,LTD.*'s product, model number: *D151 (FCC ID: V7TD151)* (the "EUT") in this report was a *ADSL Router*, which was measured approximately: 17.3 cm (L) x 14.5 cm (W) x 18.5 cm (H). Rated input voltage: DC 9V from adapter, the highest operating frequency is 333MHz.

Adapter Information: HEWEISHUN MODEL: TEA09U-09100 INPUT: AC 100-240V, 50/60Hz, 0.3A OUTPUT: DC 9V, 1.0A

\* All measurement and test data in this report was gathered from production sample serial number: 130813005 (Assigned by BACL. Dongguan). The EUT was received on 2013-08-15.

### Objective

This report is prepared on behalf of *SHENZHEN TENDA TECHNOLOGY CO.,LTD.* in accordance with Part 2, Subpart J, Part 15, Subparts A and B of the Federal Communication Commissions rules.

The objective of the manufacturer is to determine compliance with FCC Part 15B, Class B.

### **Related Submittal(s)/Grant(s)**

FCC Part 15C DTS submissions with FCC ID: V7TD151 for Wifi.

### **Test Facility**

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communications Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 02, 2012. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratories Corp. (Dongguan) is an ISO/IEC 17025 accredited laboratory, and is accredited by National Voluntary Laboratory Accredited Program (Lab Code 500069-0).



The current scope of accreditations can be found at http://ts.nist.gov/standards/scopes/5000690.htm

# SYSTEM TEST CONFIGURATION

### Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

### **EUT Exercise Software**

The software "Lan test.exe" was used for testing.

## **Equipment Modifications**

No modification was made to the EUT.

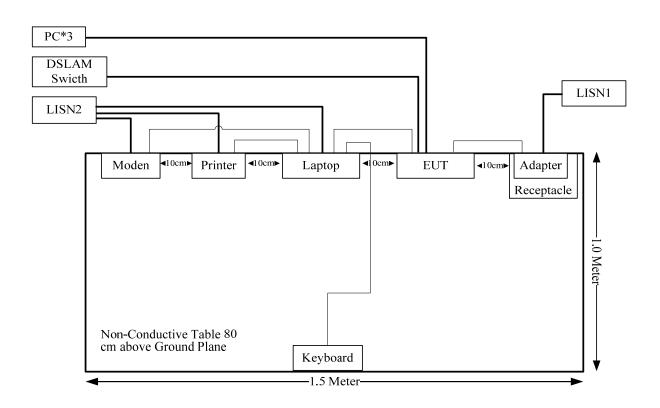
## **Support Equipment List and Details**

Manufacturer	Description	Model	Serial Number
DELL	Laptop	PP11L	QDS-BRCM1017
HP	Printer	C3941A	JPTVOB2337
DELL	Keyboard	L100	CNORH656658907BL05DC
SAST	Modem	AEM-2100	0293
DELL (1#)	РС	GX620	/
DELL (2#)	РС	GX620	/
DELL (3#)	РС	GX620	/
Huawei	DSLAM Swieth	MA5615	98MA6444773-001

### **External Cable**

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
Parallel Cable	yes	no	1.2	Laptop	Printer
Serial Cable	yes	no	1.2	Laptop	Modem
RJ45 Cable	no	no	1.0	EUT	Laptop
RJ45 Cable*3	no	no	10.0	EUT	PC
RJ11 Cable	no	no	10.0	EUT	DSLAM Swicth
Keyboard Cable	yes	no	2.0	Laptop	Keyboard
Adapter DC Line	No	No	1.8	Adapter	EUT

# **Block Diagram of Test Setup**



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# SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results	
§15.107	AC Line Conducted Emissions	Compliance	
§15.109	Radiated Emissions	Compliance	

# FCC §15.107 – AC LINE CONDUCTED EMISSIONS

### **Measurement Uncertainty**

Compliance or non- compliance with a disturbance limit shall be determined in the following manner:

If  $U_{lab}$  is less than or equal to  $U_{cispr}$  of Table 1, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non - compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. If  $U_{lab}$  is greater than  $U_{cispr}$  of Table 1, then:

- compliance is deemed to occur if no measured disturbance level, increased by  $(U_{lab} - U_{cispr})$ , exceeds the disturbance limit;

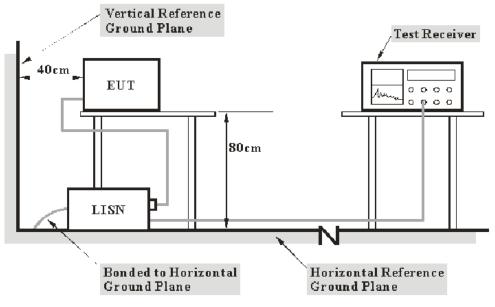
- non - compliance is deemed to occur if any measured disturbance level, increased by  $(U_{\text{lab}} - U_{\text{cispr}})$ , exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.46 dB (150 kHz to 30 MHz).

Table 1 – Values of	$U_{\rm cispr}$
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Measurement	$U_{ m cispr}$
Conducted disturbance at mains port using AMN (150 kHz to 30 MHz)	3.4 dB

### **EUT Setup**



Note: 1. Support units were connected to second LISN. 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm

from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.107 Class B limits.

The adapter was connected to a 120 VAC/60 Hz power source.

### **EMI Test Receiver Setup**

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W	
150 kHz – 30 MHz	9 kHz	

#### **Test Procedure**

During the conducted emission test, the adapter was connected to the outlet of the first LISN and the other support equipments were connected to the outlet of the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

### **Corrected Amplitude & Margin Calculation**

The basic equation is as follows:

$$\label{eq:VC} \begin{split} V_{C} &= V_{R} + A_{C} + VDF \\ C_{f} &= A_{C} + VDF \end{split}$$

Herein,  $V_C$  (cord. Reading): corrected voltage amplitude  $V_R$ : reading voltage amplitude  $A_c$ : attenuation caused by cable loss VDF: voltage division factor of AMN  $C_f$ : Correction Factor

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Report No.: R2DG130813005-00A

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI TEST RECEIVER	ESCS 30	830245/006	2012-11-29	2013-11-28
R&S	L.I.S.N	ESH3-Z5	843331/015	2013-9-17	2014-9-16
R&S	L.I.S.N	ESH3-Z5	100113	2012-11-29	2013-11-28
BACL	Test Software	BACL-EMC	V1.0-2010	N/A	N/A

### **Test Equipment List and Details**

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to National Primary Standards and International System of Units (SI).

### **Test Results Summary**

According to the recorded data in following table, the EUT complied with the FCC Part 15.107, with the worst margin reading of:

### 5.64 dB at 0.390 MHz in the Line conducted mode

#### **Test Data**

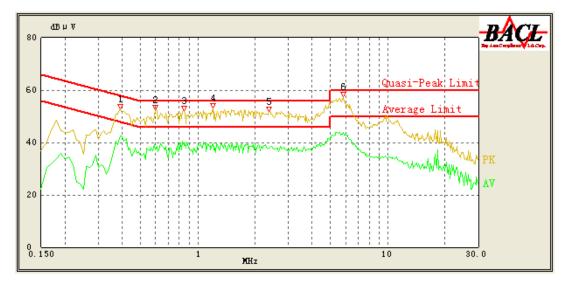
### **Environmental Conditions**

Temperature:	26.9°C	
<b>Relative Humidity:</b>	63 %	
ATM Pressure:	99.1kPa	

The testing was performed by Leon Chen on 2013-08-16.

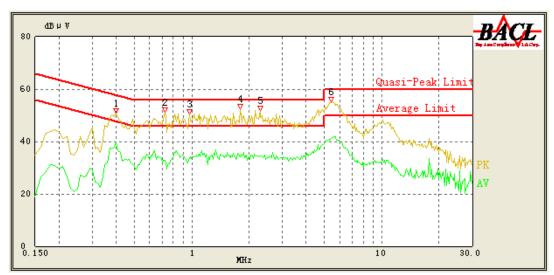
### Test mode: Operating

# 120 V, 60 Hz, Line:



Frequency (MHz)	Cord. Reading (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/AV/QP)
0.390	48.41	0.33	58.06	9.65	QP
0.390	42.42	0.33	48.06	5.64	AV
0.600	46.47	0.31	56.00	9.53	QP
0.600	37.27	0.31	46.00	8.73	AV
0.850	47.41	0.32	56.00	8.59	QP
0.850	38.88	0.32	46.00	7.12	AV
1.200	46.27	0.33	56.00	9.73	QP
1.200	39.74	0.33	46.00	6.26	AV
2.380	46.93	0.37	56.00	9.07	QP
2.380	37.95	0.37	46.00	8.05	AV
5.840	50.54	0.54	60.00	9.46	QP
5.810	43.79	0.54	50.00	6.21	AV

## 120 V, 60 Hz, Neutral:



Frequency (MHz)	Cord. Reading (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/AV/QP)
0.400	47.24	0.22	57.85	10.61	QP
0.400	39.81	0.22	47.85	8.04	AV
0.720	43.77	0.22	56.00	12.23	QP
0.720	32.68	0.22	46.00	13.32	AV
0.970	42.04	0.23	56.00	13.96	QP
0.960	32.85	0.23	46.00	13.15	AV
1.800	43.68	0.26	56.00	12.32	QP
1.800	34.12	0.26	46.00	11.88	AV
2.290	42.59	0.28	56.00	13.41	QP
2.280	34.42	0.28	46.00	11.58	AV
5.440	49.30	0.43	60.00	10.70	QP
5.500	41.58	0.43	50.00	8.42	AV

# FCC §15.109 - RADIATED EMISSIONS

### **Measurement Uncertainty**

Compliance or non- compliance with a disturbance limit shall be determined in the following manner:

If  $U_{\text{lab}}$  is less than or equal to  $U_{\text{cispr}}$  of Table 2, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non - compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If  $U_{\text{lab}}$  is greater than  $U_{\text{cispr}}$  of Table 1, then:

- compliance is deemed to occur if no measured disturbance level, increased by  $(U_{lab} - U_{cispr})$ , exceeds the disturbance limit;

- non - compliance is deemed to occur if any measured disturbance level, increased by  $(U_{lab} - U_{cispr})$ , exceeds the disturbance limit.

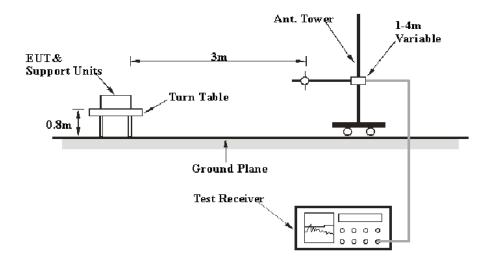
Based on CISPR 16-4-2: 2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is: 30M~200MHz: 5.0 dB 200M~1GHz: 6.2 dB 1G~6GHz: 4.45 dB 6G~18GHz: 5.23 dB

Table 2 – Values of 
$$U_{\text{cispr}}$$

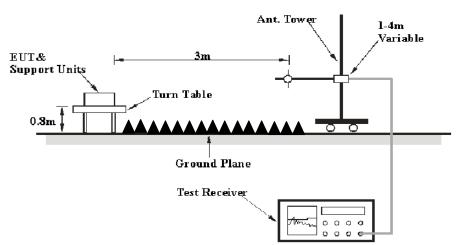
Measurement				
Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz)	6.3 dB			
Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)	5.2 dB			
Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)	5.5 dB			

### **EUT Setup**

### Below 1 GHz:



### Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC Part 15.109, Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The adapter connected to a 120 VAC/60 Hz power source.

### **EMI Test Receiver Setup**

According to FCC 15.33 requirements, the system was measured from 30 MHz to 6 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	Frequency Range RBW		IF B/W	Detector	
30MHz – 1000 MHz	120 kHz	300 kHz	120kHz	QP	
Above 1 GHz	1MHz	3 MHz	/	РК	
Above I GHZ	1MHz	10 Hz	/	Ave.	

### **Test Procedure**

For the radiated emissions test, the adapter was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The data was recorded in Quasi-peak detection mode for 30 MHz to 1 GHz, Peak and average detection mode above 1 GHz.

### **Corrected Amplitude & Margin Calculation**

The Corrected Amplitude is calculated by adding the Antenna Loss and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Loss + Cable Loss - Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI TEST RECEIVER	ESCI	100224	2013-5-6	2014-5-5
Sunol Sciences	Antenna	JB3	A060611-1	2011-9-6	2014-9-5
HP	HP AMPLIFIER	8447E	2434A02181	N/A	N/A
R&S	Spectrum analyzer	FSEM 30	849016/001	2012-12-7	2013-12-6
ETS LINDGREN	horn antenna	3115	000 527 35	2012-9-6	2015-9-5
Mini-Circuit	Amplifier	ZVA-213-S+	54201245	N/A	N/A
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A

### **Test Equipment List and Details**

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to National Primary Standards and International System of Units (SI).

### **Test Results Summary**

According to the data in the following table, the EUT complied with the <u>FCC 15.109</u>, <u>Class B</u>, with the worst margin reading of:

4.85 dB at 62.9800 MHz in the Vertical polarization for below 1G

#### **Test Data**

#### **Environmental Conditions**

Temperature:	25.2 °C		
<b>Relative Humidity:</b>	56 %		
ATM Pressure:	100.6 kPa		

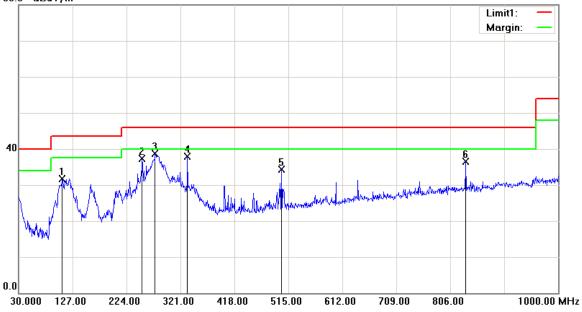
The testing was performed by Leon Chen on 2013-09-12.

# 1) Below 1 GHz:

Test mode: Operating

### Horizontal:

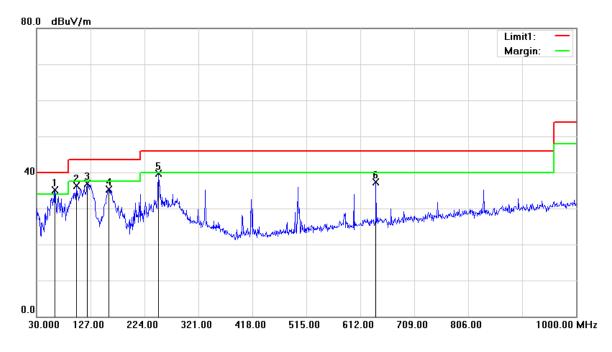
80.0 dBuV/m



Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
108.5700	39.20	QP	-7.43	31.77	43.50	11.73
252.1300	44.77	QP	-7.48	37.29	46.00	8.71
275.4100	44.57	QP	-5.91	38.66	46.00	7.34
333.6100	42.82	QP	-4.84	37.98	46.00	8.02
502.3900	35.71	QP	-1.34	34.37	46.00	11.63
834.1300	33.15	QP	3.37	36.52	46.00	9.48

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### Vertical:



Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
62.9800	47.71	QP	-12.56	35.15	40.00	4.85*
101.7800	45.32	QP	-9.10	36.22	43.50	7.28
121.1800	42.88	QP	-5.90	36.98	43.50	6.52
159.9800	42.51	QP	-7.16	35.35	43.50	8.15
249.2200	47.16	QP	-7.51	39.65	46.00	6.35
640.1300	36.63	QP	0.66	37.29	46.00	8.71

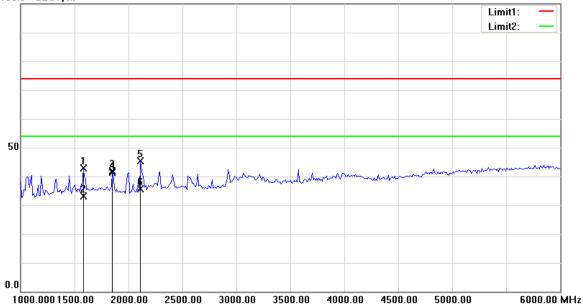
\*Within measurement uncertainty!

### 2) Above 1 GHz:

Test mode: Operating

### Horizontal:

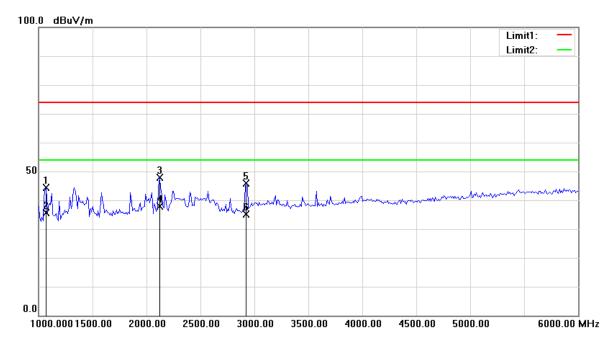
100.0 dBuV/m



Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1581.162	42.75	peak	0.07	42.82	74.00	31.18
1581.162	33.17	AVG	0.07	33.24	54.00	20.76
1851.703	40.83	peak	1.01	41.84	74.00	32.16
1851.703	40.27	AVG	1.01	41.28	54.00	12.72
2112.224	43.69	peak	1.65	45.34	74.00	28.66
2112.224	34.04	AVG	1.65	35.69	54.00	18.31

### Report No.: R2DG130813005-00A

### Vertical:



Frequency (MHz)	Receiver Reading (dBuV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1070.140	46.39	peak	-2.07	44.32	74.00	29.68
1070.140	37.75	AVG	-2.07	35.68	54.00	18.32
2122.244	46.09	peak	1.72	47.81	74.00	26.19
2122.244	36.13	AVG	1.72	37.85	54.00	16.15
2923.848	39.70	peak	6.26	45.96	74.00	28.04
2923.848	28.99	AVG	6.26	35.25	54.00	18.75

### \*\*\*\*\* END OF REPORT \*\*\*\*\*