

FCC & IC Test Report

Project No. : 1304C077D Equipment : TV Speaker Base

Model Name : DHT-T110

Applicant: Tymphany HK Limited

Address : Room 1307-8 Dominion Centre 43-59 Oueen's Road

East, WanChai, Hong Kong

Date of Receipt : Jul. 29, 2014

Date of Test : Jul. 29, 2014 ~ Aug. 05, 2014

Issued Date : Aug. 06, 2014

Tested by : BTL Inc.

Testing Engineer

(Kevin Kao

Technical Manager

(Jeff Yang)

Authorized Signatory

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCE&ICA-1-1304C077D	Original Issue.	Aug. 06, 2014

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1. CERTIFICATION

Equipment : TV Speaker Base

Brand Name: Boston Acoustics; Denon

Model Name: DHT-T110

Applicant : Tymphany HK Limited Manufacturer : D&M Holdings Inc.

Address : D&M Building, 2-1 Nissin-cho, Kawasaki-ku, Kawasaki-shi, Kanagawa, Japan

Factory : Premium Loudspeakers(Huizhou) Co.,Ltd.

Tymphany Industrial Area, XinLian Village, XinXu Town, Huizhou City,

Address : Guangdong, P.R. China

Date of Test : Jul. 29, 2014 ~ Aug. 05, 2014 Standard(s) : FCC Part 15, Subpart B :2013

ANSI C63.4-2009 ICES-003 Issue 5: 2012

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc..

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCE&ICA-1-1304C077D) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

EMC Emission						
Standard(s)	Test Item	Limit	Judgment	Remark		
FCC Part15,	Conducted Emission	Class B	PASS			
Subpart B:2013 ICES-003 Issue 5: 2012	Radiated Emission	Class B	PASS			

NOTE:

(1) " N/A" denotes test is not applicable in this test report.

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2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **C02/CB08** at the location of 1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately $\mathbf{95}\%$ \circ

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
C02	CISPR	150 KHz ~ 30MHz	2.59	

B. Radiated Measurement:

Test Site Method		Measurement Frequency Range	Ant. H / V	U,(dB)	NOTE
		30MHz ~ 200MHz	V	3.22	
		30MHz ~ 200MHz	Н	3.55	
	CISPR	200MHz ~ 1,000MHz	V	3.24	
CB08		200MHz ~ 1,000MHz	Н	3.11	
CBU6		1,000MHz ~18,000MHz	V	4.05	
		1,000MHz ~ 18,000MHz	Н	3.97	
		18,000MHz ~ 40,000MHz	V	4.04	
		18,000MHz ~ 40,000MHz	Н	4.01	

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	TV Speaker Base		
Brand Name	Boston Acoustics; Denon		
Model Name	DHT-T110		
Model Difference	N/A		
Product Description	More details of EUT technical specification, please refer to the User's Manual.		
Power Source	AC Mains.		
Power Rating	I/P AC 120V/60Hz 1.5A		
Connecting I/O Port(s)	Please refer to the User's Manual		

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description		
Mode 1	Bluetooth		
Mode 2	Audio IN		
Mode 3	Coaxial IN		
Mode 4	Optical IN		

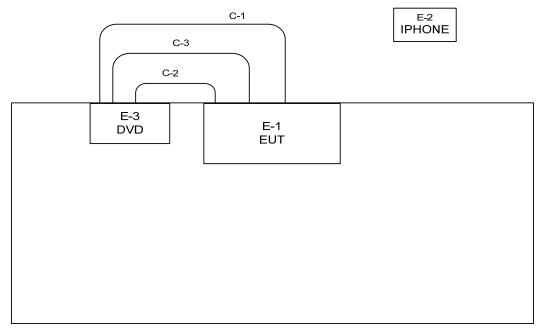
The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted / Radiated Test					
Final Test Mode Description					
Mode 1	Bluetooth				
Mode 2	Audio IN				
Mode 3	Coaxial IN				
Mode 4	Optical IN				

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3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



C-1 Audio Cable C-2 Coaxial IN Cable C-3 Optical IN Cable

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3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	TV Speaker Base	Boston Acoustics	DHT-T110	DOC	N/A	EUT
E-2	IPHONE	APPLE	A1241	DOC	BCGA1241	
E-3	DVD Player	BBK	DV999	DOC	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.1m	
C-2	YES	NO	1.0m	
C-3	NO	NO	1.2m	

Note:

(1) For detachable type I/O cable should be specified the length in m in <code>"Length"</code> column.

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION (FREQUENCY RANGE 150KHZ-30MHZ)

FREQUENCY (MHz)	Class A	(dBuV)	Class B	(dBuV)
TINEQUEINOT (IVII IZ)	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	V-LISN	Schwarzbeck	NSLK 8127	8127-685	Jun. 02, 2015
2	Transient Limiter	EM	EM-7600	772	Aug. 21, 2014
3	Test Cable	TIMES	CFD300-NL	C02	Jun. 15, 2015
4	EMI Test Receiver	Agilent	N9038A	MY51210215	Feb. 24, 2015
5	Measurement Software	EZ	EZ_EMC (Version NB-03A)	N/A	N/A

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

The following table is the setting of the receiver

Receiver Parameters	Setting				
Attenuation	10 dB				
Start Frequency	0.15 MHz				
Stop Frequency	30 MHz				
IF Bandwidth	9 kHz				

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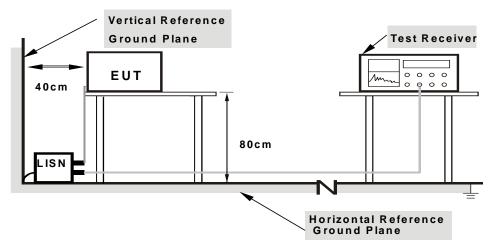
4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.6 EUT OPERATING CONDITIONS

The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use. AC Mains~ DC Voltage supplied from AC/DC adapter.

- 1. EUT Connected to DVD via audio cable, Coaxial IN cable, Optical IN cable.
- 2. EUT link data to IPHONE by BT function.



4.1.7 TEST RESULTS

Remark

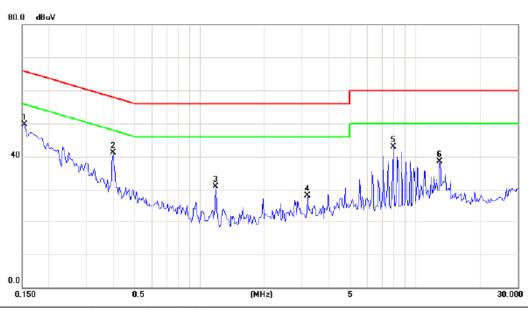
(1) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.

((2)	Measuring	frequency	/ range from	150KHz to	30MHz

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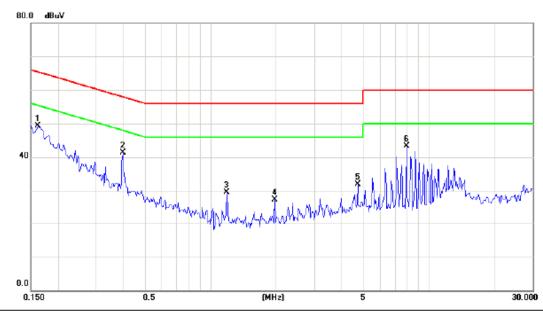
EUT	TV Speaker Base	Model Name	DHT-T110
Temperature	25 ℃	Relative Humidity	55 %
Test Voltage	AC 120V/60Hz	Phase	Line
Test Mode	Bluetooth		



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
Ī			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
	1	*	0.1540	40.16	9.52	49.68	65.78	-16.10	peak	
Ī	2		0.3961	31.41	9.64	41.05	57.93	-16.88	peak	
Ī	3		1.1852	21.18	9.70	30.88	56.00	-25.12	peak	
	4		3.1641	18.37	9.77	28.14	56.00	-27.86	peak	
	5		7.9102	32.98	10.02	43.00	60.00	-17.00	peak	
	6		13.0508	28.23	10.18	38.41	60.00	-21.59	peak	
_										



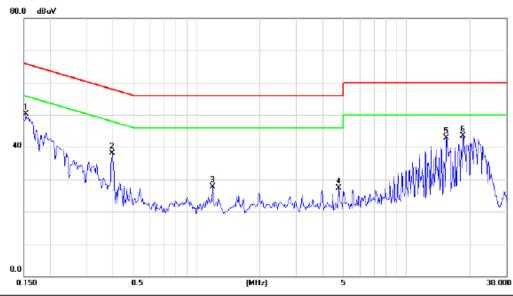
EUT	TV Speaker Base	Model Name	DHT-T110
Temperature	25 ℃	Relative Humidity	55 %
Test Voltage	AC 120V/60Hz	Phase	Neutral
Test Mode	Bluetooth	•	



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1617	39.58	9.63	49.21	65.38	-16.17	peak	
2		0.3961	31.77	9.63	41.40	57.93	-16.53	peak	
3		1.1852	19.85	9.68	29.53	56.00	-26.47	peak	
4		1.9781	17.58	9.74	27.32	56.00	-28.68	peak	
5		4.7461	21.99	9.87	31.86	56.00	-24.14	peak	
6		7.9141	33.40	10.00	43.40	60.00	-16.60	peak	



EUT	TV Speaker Base	Model Name	DHT-T110
Temperature	25 ℃	Relative Humidity	55 %
Test Voltage	AC 120V/60Hz	Phase	Line
Test Mode	Audio IN		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1	*	0.1532	40.52	9.78	50.30	65.82	-15.52	peak		
2		0.3955	28.48	9.72	38.20	57.95	-19.75	peak		
3		1.1906	18.00	9.70	27.70	56.00	-28.30	peak		
4		4.7462	17.58	9.80	27.38	56.00	-28.62	peak		
5		15.4700	33.01	9.84	42.85	60.00	-17.15	peak		
6		18.6220	33.74	9.86	43.60	60.00	-16.40	peak		

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EUT	TV Speaker Base	Model Name	DHT-T110
Temperature	25 ℃	Relative Humidity	55 %
Test Voltage	AC 120V/60Hz	Phase	Neutral
Test Mode	Audio IN		

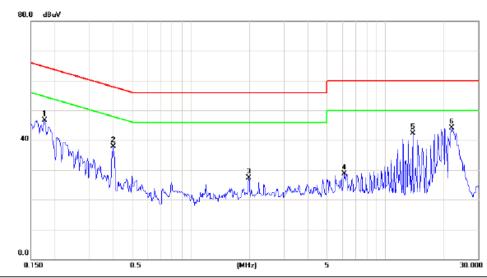


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1554	39.96	9.78	49.74	65.71	-15.97	peak	
2	0.3955	25.76	9.72	35.48	57.95	-22.47	peak	
3	1.1906	20.12	9.70	29.82	56.00	-26.18	peak	
4	4.7461	18.74	9.80	28.54	56.00	-27.46	peak	
5	13.8411	33.88	9.83	43.71	60.00	-16.29	peak	
6 *	19.4283	34.99	9.87	44.86	60.00	-15.14	peak	

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EUT	TV Speaker Base	Model Name	DHT-T110
Temperature	25 ℃	Relative Humidity	55 %
Test Voltage	AC 120V/60Hz	Phase	Line
Test Mode	Coaxial IN		

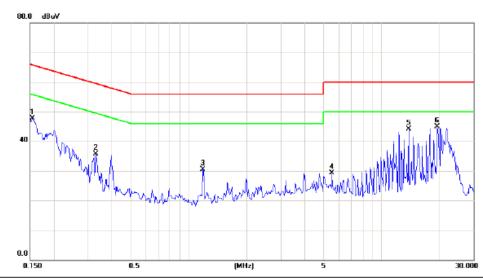


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1766	37.01	9.77	46.78	64.64	-17.86	peak	
2	0.3976	28.24	9.72	37.96	57.90	-19.94	peak	
3	1.9800	17.58	9.68	27.26	56.00	-28.74	peak	
4	6.1208	18.87	9.81	28.68	60.00	-31.32	peak	
5	13.8411	32.41	9.83	42.24	60.00	-17.76	peak	
6 *	21.8302	34.18	9.88	44.06	60.00	-15.94	peak	

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EUT	TV Speaker Base	Model Name	DHT-T110
Temperature			55 %
Test Voltage			Neutral
Test Mode	Coaxial IN	ı. Hadd	11001101

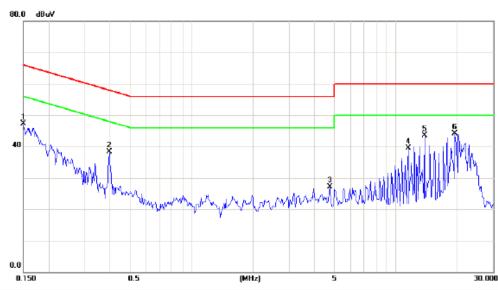


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1547	37.92	9.78	47.70	65.74	-18.04	peak	
2	0.3285	25.92	9.73	35.65	59.49	-23.84	peak	
3	1.1842	20.80	9.70	30.50	56.00	-25.50	peak	
4	5.5346	19.40	9.81	29.21	60.00	-30.79	peak	
5	13.8411	34.20	9.83	44.03	60.00	-15.97	peak	
6 *	19.4283	35.13	9.87	45.00	60.00	-15.00	peak	

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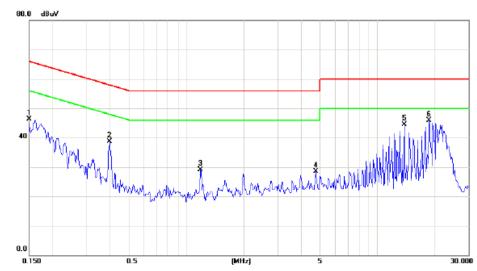
EUT	TV Speaker Base	Model Name	DHT-T110
Temperature	25 ℃	Relative Humidity	55 %
Test Voltage	AC 120V/60Hz	Phase	Line
Test Mode	Optical IN		



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	37.61	9.79	47.40	66.00	-18.60	peak	
2	0.3955	28.68	9.72	38.40	57.95	-19.55	peak	
3	4.7462	17.28	9.80	27.08	56.00	-28.92	peak	
4	11.4983	29.72	9.82	39.54	60.00	-20.46	peak	
5	13.8411	33.75	9.83	43.58	60.00	-16.42	peak	
6 *	19.4283	34.21	9.87	44.08	60.00	-15.92	peak	



EUT	TV Speaker Base	Model Name	DHT-T110
Temperature	25 ℃	Relative Humidity	55 %
Test Voltage	AC 120V/60Hz	Phase	Neutral
Test Mode	Optical IN		



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	36.49	9.79	46.28	66.00	-19.72	peak	
2	0.3955	28.98	9.72	38.70	57.95	-19.25	peak	
3	1.1842	19.46	9.70	29.16	56.00	-26.84	peak	
4	4.7462	18.64	9.80	28.44	56.00	-27.56	peak	
5	13.8411	34.58	9.83	44.41	60.00	-15.59	peak	
6 *	18.6220	36.13	9.86	45.99	60.00	-14.01	peak	



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT (Below 1000MHz)

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Notes:

- (1) The limit for radiated test was performed according to as following: FCC PART 15B
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBu	IV/m) (at 3m)	Class B (dBuV/m) (at 3m)		
FREQUENCY (MIDZ)	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80	60	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)				
Below 1.705	30				
1.705 – 108	1000				
108 – 500	2000				
500 – 1000	5000				
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower				

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4.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	of Equipment Manufacturer		Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB 9168	9168-352	Jun. 17, 2015
2	Pre-Amplifier	Anritsu	MH648A	M92649	Jun. 17, 2015
3	Microflex Cable	Harbour industries	27478LL142	1M	May. 12, 2015
4	Test Cable	TIMES	LMR-400	12M	May. 13, 2015
5	Test Cable	TIMES	LMR-400	3M	May. 13, 2015
6	EMI Test Receiver	est Receiver Agilent		MY51210215	Feb. 24, 2015
7	Horn Antenna (1G)	Schwarzbeck	BBHA 9120 D	9120D-325	Jun. 14, 2015
8	Pre_Amplifier	Agilent	8449B	3008A01714	Apr. 15, 2015
9	Microflex Cable	HARBOUR INDUSTRIES	27478 LL142	1M	May. 12, 2015
10	Microflex Cable	EMC	S104-SMA	8M	May. 14, 2015
11	Microflex Cable	croflex Cable HARBOUR INDUSTRIES		3M	May. 12, 2015
12	EMI Test Receiver	Agilent	N9038A	MY51210215	Feb. 24, 2015
13	Measurement Software	EZ	EZ_EMC (Version NB-03A)	N/A	N/A

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of Equipment List is One Year.

4.2.3 TEST PROCEDURE

- a. 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.(below 1GHz)
- b. 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.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.4 DEVIATION FROM TEST STANDARD

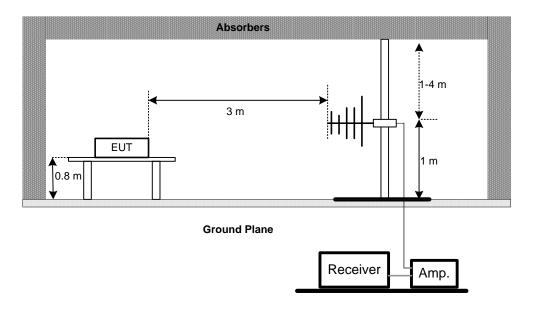
No deviation

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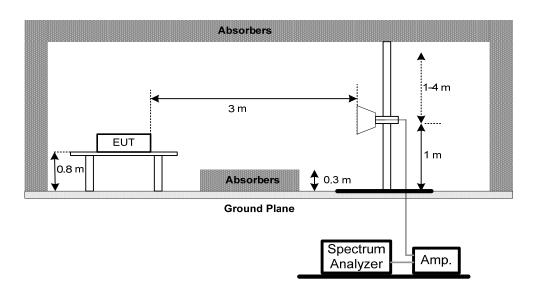


4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.



4.2.7 TEST RESULTS: 30MHz - 1000MHZ

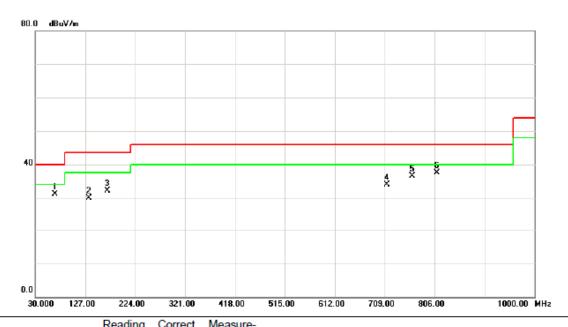
Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

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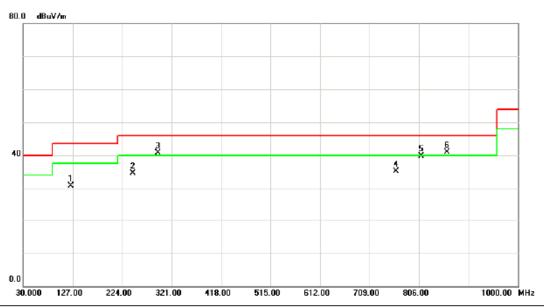
EUT	TV Speaker Base	Model Name	DHT-T110
Temperature	25 ℃	Relative Humidity	55 %
Test Voltage	AC 120V/60Hz	Phase	Vertical
Test Mode	Bluetooth		



No.	Mk.	. Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		67.8300	47.12	-15.95	31.17	40.00	-8.83	peak	
2		133.7900	42.92	-13.09	29.83	43.50	-13.67	peak	
3		169.6800	44.88	-12.78	32.10	43.50	-11.40	peak	
4		712.8800	38.83	-4.84	33.99	46.00	-12.01	peak	
5		762.3500	40.70	-4.20	36.50	46.00	-9.50	peak	
6	*	810.8500	40.50	-2.95	37.55	46.00	-8.45	peak	



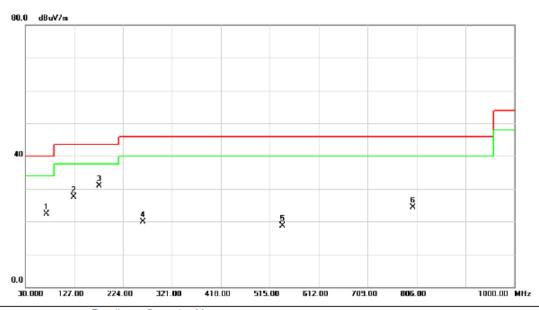
EUT	TV Speaker Base	Model Name	DHT-T110
Temperature	25 ℃	Relative Humidity	55 %
Test Voltage	AC 120V/60Hz	Phase	Horizontal
Test Mode	Bluetooth		



No.	Mk	ί.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		123	3.1200	44.61	-13.85	30.76	43.50	-12.74	peak	
2		245	5.3400	48.47	-14.03	34.44	46.00	-11.56	peak	
3	İ	294	1.8100	51.83	-11.09	40.74	46.00	-5.26	peak	
4		761	1.3800	39.38	-4.24	35.14	46.00	-10.86	peak	
5		810	0.8500	42.72	-2.95	39.77	46.00	-6.23	peak	
6	*	860	0.3200	43.76	-2.82	40.94	46.00	-5.06	peak	



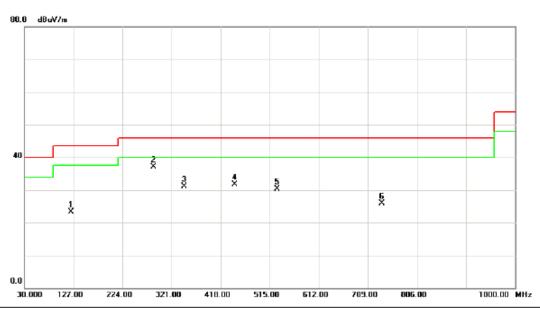
EUT	TV Speaker Base	Model Name	DHT-T110
Temperature	25 ℃	Relative Humidity	55 %
Test Voltage	AC 120V/60Hz	Phase	Vertical
Test Mode	Audio IN		



No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		71.7100	43.93	-21.68	22.25	40.00	-17.75	peak	
2		126.0300	48.09	-20.67	27.42	43.50	-16.08	peak	
3	*	176.4700	51.70	-20.89	30.81	43.50	-12.69	peak	
4		262.8000	40.24	-20.28	19.96	46.00	-26.04	peak	
5		540.2200	31.85	-13.23	18.62	46.00	-27.38	peak	
6		799.2100	33.01	-8.73	24.28	46.00	-21.72	peak	



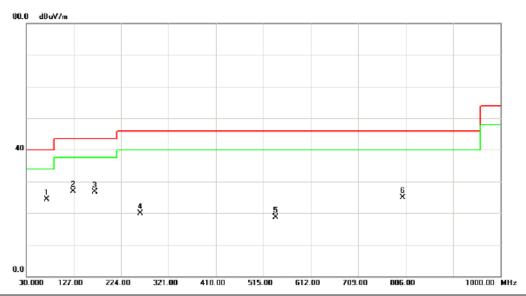
EUT	TV Speaker Base	Model Name	DHT-T110
Temperature	25 ℃	Relative Humidity	55 %
Test Voltage	AC 120V/60Hz	Phase	Horizontal
Test Mode	Audio IN	<u>.</u>	



No.	. 1	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1			122.1500	44.35	-21.11	23.24	43.50	-20.26	peak	
2	1	*	285.1100	56.20	-19.16	37.04	46.00	-8.96	peak	
3			346.2200	48.75	-17.71	31.04	46.00	-14.96	peak	
4		-	446.1300	46.85	-15.11	31.74	46.00	-14.26	peak	
5			529.5500	43.68	-13.47	30.21	46.00	-15.79	peak	
6			737.1300	35.29	-9.41	25.88	46.00	-20.12	peak	



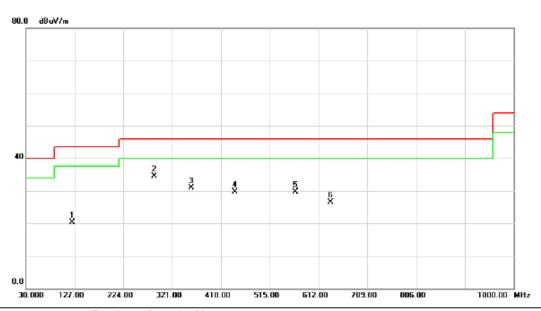
EUT	TV Speaker Base	Model Name	DHT-T110
Temperature	25 ℃	Relative Humidity	55 %
Test Voltage	AC 120V/60Hz	Phase	Vertical
Test Mode	Coaxial IN		



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	71.7100	45.93	-21.68	24.25	40.00	-15.75	peak	
2		126.0300	47.59	-20.67	26.92	43.50	-16.58	peak	
3		169.6800	46.97	-20.20	26.77	43.50	-16.73	peak	
4		262.8000	40.24	-20.28	19.96	46.00	-26.04	peak	
5		540.2200	31.85	-13.23	18.62	46.00	-27.38	peak	
6		800.1800	33.60	-8.73	24.87	46.00	-21.13	peak	



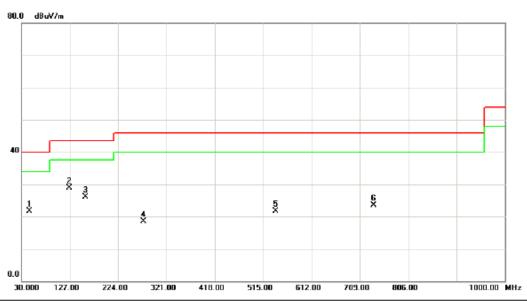
EUT	TV Speaker Base	Model Name	DHT-T110
Temperature	25 ℃	Relative Humidity	55 %
Test Voltage	AC 120V/60Hz	Phase	Horizontal
Test Mode	Coaxial IN		



	No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		122.1500	41.35	-21.11	20.24	43.50	-23.26	peak	
-	2	*	285.1100	53.70	-19.16	34.54	46.00	-11.46	peak	
-	3		358.8300	48.35	-17.45	30.90	46.00	-15.10	peak	
-	4		446.1300	44.85	-15.11	29.74	46.00	-16.26	peak	
-	5		565.4400	42.35	-12.56	29.79	46.00	-16.21	peak	
-	6		635.2800	37.48	-11.05	26.43	46.00	-19.57	peak	



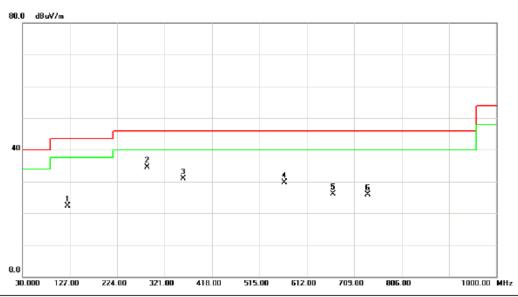
EUT	TV Speaker Base	Model Name	DHT-T110
Temperature	25 ℃	Relative Humidity	55 %
Test Voltage	AC 120V/60Hz	Phase	Vertical
Test Mode	Optical IN		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		46.4900	40.90	-19.28	21.62	40.00	-18.38	peak	
2	*	126.0300	49.59	-20.67	28.92	43.50	-14.58	peak	
3		158.0400	45.97	-19.88	26.09	43.50	-17.41	peak	
4		274.4400	37.91	-19.50	18.41	46.00	-27.59	peak	
5		540.2200	34.85	-13.23	21.62	46.00	-24.38	peak	
6		736.1600	32.95	-9.43	23.52	46.00	-22.48	peak	



EUT	TV Speaker Base	Model Name	DHT-T110
Temperature	25 ℃	Relative Humidity	55 %
Test Voltage	AC 120V/60Hz	Phase	Horizontal
Test Mode	Optical IN		



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		122.1500	43.35	-21.11	22.24	43.50	-21.26	peak	
2	*	285.1100	53.70	-19.16	34.54	46.00	-11.46	peak	
3		358.8300	48.35	-17.45	30.90	46.00	-15.10	peak	
4		565.4400	42.35	-12.56	29.79	46.00	-16.21	peak	
5		665.3500	36.88	-10.72	26.16	46.00	-19.84	peak	
6		737.1300	35.29	-9.41	25.88	46.00	-20.12	peak	

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4.2.8 TEST RESULTS: ABOVE 1000MHZ

Remark:

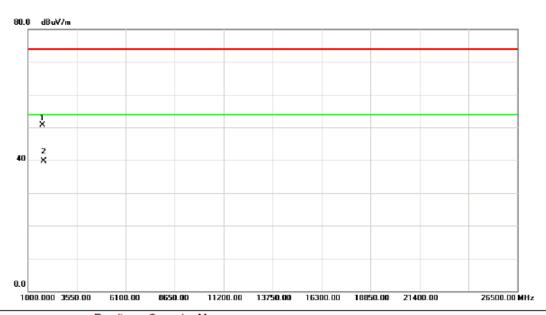
- (1) Reading in which marked as PK means measurements by using are Peak Mode with instrument setting in RBW= 1 MHz, VBW= 1 MHz, Swp. Time = Auto.

 Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW= 1 MHz, VBW= 10 Hz, Swp. Time = Auto.
- (2) All readings are PK Mode value unless otherwise stated AVG in column of <code>『Note』</code>. If the PK Mode Measured value compliance with the PK Limits and lower than AVG Limits, the EUT shall be deemed to meet both PK & AVG Limits and then only PK Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.
- (3) Measuring frequency range above 1000MHz.

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EUT	TV Speaker Base	Model Name	DHT-T110
Temperature	25 ℃	Relative Humidity	55 %
Test Voltage	AC 120V/60Hz	Phase	Vertical
Test Mode	Bluetooth		

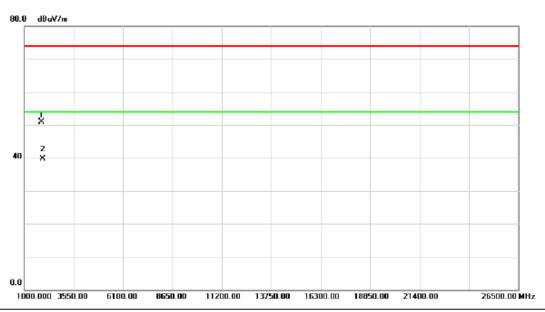


	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
-	1		1776.350	45.36	5.33	50.69	74.00	-23.31	peak	
-	2	*	1776.350	34.31	5.33	39.64	54.00	-14.36	AVG	
_										

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EUT	TV Speaker Base	Model Name	DHT-T110	
Temperature	25 ℃	Relative Humidity	55 %	
Test Voltage	AC 120V/60Hz	Phase	Horizontal	
Test Mode	Bluetooth			



	No.	Mk	. Freq.			Measure- ment	Limit	Over		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		1914.200	45.36	5.52	50.88	74.00	-23.12	peak	
-	2	*	1914.200	34.27	5.52	39.79	54.00	-14.21	AVG	
-										

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5. EUT TEST PHOTO

Conducted Measurement Photos





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Radiated Measurement Photos





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