EMC TEST REPORT

For

Dimmer lamp module & Relay fluorescent light appliance module

Model Number: ZDP100 45602 ZRP100 45603 FCC ID: U2Z45602-3

Report Number: WT078000354

Test Laboratory : Shenzhen Academy of Metrology and

Quality Inspection EMC Laboratory

Guangdong EMC Compliance Test Center

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TEST REPORT DECLARATION

Applicant : SHEENWAY ASIA LTD

Address : Room 1313, 13/F, Austin Tower, Tsim Sha Tsui, Kowloon.

Manufacturer : SHEENWAY ASIA LTD

Address : Room 1313, 13/F, Austin Tower, Tsim Sha Tsui, Kowloon.

EUT Description : Dimmer lamp module & Relay fluorescent light appliance module

Model Number ZDP100 45602 ZRP100 45603

FCC ID Number U2Z45602-3

Test Standards:

FCC Part 15 15.249:2006

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.249.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

Tested by:	Derold	Date:	2007.04.02
_	(Dewelly Yang)		
Checked by:	Low lin	Date:	2007.04.02
_	(Louis Lin)		
Approved by:	Pour -	Date:	2007.04.02
	(Peter Lin)		

1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

= = = = = = = = = = = = = = = = = = = =								
Test Items	FCC Rules	Test Results						
Conducted Disturbance	15.207	Pass						
Radiated disturbance	15.249	Pass						
Occupied Bandwidth	15.249	Pass						
Band Edges	15.249	Pass						
Antenna Requirement	15.203	Pass						

2. GENERAL INFORMATION

2.1. Report information

- 2.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.
- 2.1.2. The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 2.1.3.Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at Bldg. of Metrology & Quality Inspection, Longzhu Road, Nanshan District, Shenzhen, Guangdong, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Committee for Laboratories (CNAL) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is L0579.

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number are 97379(open area test site) and 274801(semi anechoic chamber).

The Laboratory is listed in Voluntary Control Council for Interference by Information Technology Equipment (VCCI), and the registration number are R-1974(open area test site), R-1966(semi anechoic chamber), C-2117(mains ports conducted interference measurement) and T-180(telecommunication ports conducted interference measurement).

The Laboratory is registered to perform emission tests with Industry Canada (IC), and the registration number is IC4174.

TUV Rhineland accredits the Laboratory for conformance to IEC and EN standards, the registration number is **E2024086Z02**.

Measurement Uncertainty

2.3. Measurement Uncertainty

Conducted Disturbance: 9kHz~30MHz 3.5dB

Radiated Disturbance: 30MHz~1000MHz 4.5dB

1GHz~18GHz 4.6dB

3. PRODUCT DESCRIPTION

3.1. EUT Description

Description : Dimmer lamp module & Relay fluorescent light appliance

module

Manufacturer SHEENWAY ASIA LTD

Model Number : ZDP100 45602 ZRP100 45603

Input: AC <u>120</u>V, <u>60</u> Hz,

Input Power : Output: AC 300W(Incandescent)/1500W(resistive)--ZDP100 45602

Input: AC 120V, 60Hz,

Output: AC 600W(Incand.)/1800W or 15A(resistive)--ZRP100 45603

Operate Frequency : 908.42MHz

Modulation FSK

Antenna Designation : integrated

the model No. ZDP100 and the other model No.ZRP100 which are certified are identical in all aspects except for model name, one terminals of outlet, and one is dimmer lamp module, 300W(ZDP100) and other is relay fluorescent light & appliance

module,600W(ZRP100).

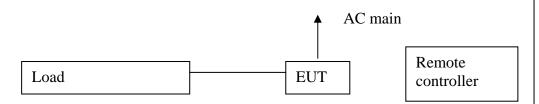
ZDP100 and 45602, ZRP100 and 45603 are identical in schematic, structure and critical components except for model number, which vary with

different customer,

3.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: U2Z45602-3 filing to comply with Section 15.249 of the FCC Part 15, Subpart C Rules.

3.3. Block Diagram of EUT Configuration



3.4. Operating Condition of EUT

Mode 1: 908.42MHz TX Mode 2: 908.42MHz RX

3.5. Special Accessories

Not available for this EUT intended for grant.

3.6. Equipment Modifications

Not available for this EUT intended for grant.

3.7. Support Equipment List

Lamp

M/N: --- 600W/300W

3.8. Test Conditions

Date of test: Mar.1,2007

Date of EUT Receive: Mar.1-15,2007

Temperature: 21-23 °C Relative Humidity: 50-65%

4. TEST EQUIPMENT USED

4.1. Test Equipment Used to Measure Conducted Disturbance

Table 2 Conducted Disturbance Test Equipment

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
SB2603	EMI Test Receiver	Rohde & Schwarz	ESCS30	Jan.25, 2007	1 Year
SB3321	AMN	Rohde & Schwarz	ESH2-Z5	Jan.25, 2007	1 Year
SB2604	AMN	Rohde & Schwarz	ESH3-Z5	Jan.25, 2007	1 Year

4.2. Test Equipment Used to Measure Radiated Disturbance and bandwidth

Table 3 Radiated Disturbance Test Equipment

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
SB3436	EMI Test Receiver	Rohde & Schwarz	ESI26	Jan.25, 2007	1 Year
SB3440	Bilog Antenna	Chase	CBL6112B	Jan.25, 2007	1 Year
SB3435	Horn Antenna	Rohde & Schwarz	HF906	Jan.25, 2007	1 Year
SB3435 /01	Amplifier(1-18GH z)	Rohde & Schwarz		Jan.25, 2007	1 Year

5. CONDUCTED DISTURBANCE TEST

5.1. Test Standard and Limit

5.1.1.Test Standard

FCC Part 15:2006

5.1.2.Test Limit

Table 4 Conducted Disturbance Test Limit (Class B)

Fraguanay	Maximum RF Line Voltage (dBμV)				
Frequency	Quasi-peak Level	Average Level			
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *			
500kHz~5MHz	56	46			
5MHz~30MHz	60	50			

- Decreasing linearly with logarithm of the frequency
- The lower limit shall apply at the transition frequency.

5.2. Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver (R&S Test Receiver ESCS30) is used to test the emissions form both sides of AC line. According to the requirements in Section 7 and 13 of ANSI C63.4-2003.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9kHz.

5.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

5.4. Test Data

The test was performed with two model. The worst case is TX mode. the follow was shown the worst data.

Table 5 Conducted Disturbance Test Data

Mode: 1

Line									
Frequency	Correction		Quasi-Peak			Average			
1 3	Factor	Dandina	Emission	Limits	Dandina	Emission	Limits		
(MHz)	(dB)	Reading (dBµV)	Level	(dBµV)	Reading (dBµV)	Level	(dBµV)		
	, ,	((dBµV)	(((dBµV)	(
0.150	10.0	51.9	61.9	66	22.8	32.8	56		
0.274	10.0	38.5	48.5	61.0	30.9	40.9	51.0		
0.675	10.0	40.3	50.3	56	33.9	43.9	46		
0.831	10.0	40.1	50.1	56	34.7	44.7	46		
0.946	10.0	39.3	49.3	56	33.4	43.4	46		
3.440	10.2	36.9	47.1	56	31.0	41.2	46		

 $\pmb{REMARKS}\text{: 1. Emission level(} dBuV\text{)} = Read\ Value(dBuV) + Correction\ Factor(dB)$

- 2. Correction Factor(dB) =LISN Factor (dB) + Cable Factor (dB)+Limiter Factor(dB)
- 3. The other emission levels were very low against the limit.

Table 6 Conducted Disturbance Test Data

Mode: 1

			NT.	1			
	Correction		Neu Quasi-Peak	tral	Average		
Frequency (MHz)	Factor (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)
0.150	10.0	51.9	61.9	66	24.6	34.6	56
0.274	10.0	41.1	51.1	61.0	35.3	45.3	51.0
0.681	10.0	41.2	51.2	56	35.1	45.1	46
0.828	10.0	40.7	50.7	56	35.2	45.2	46
0.970	10.0	40.5	50.5	56	34.7	44.7	46
3.641	10.2	36.9	47.1	56	31.1	41.3	46

REMARKS: 1. Emission level(dBuV)=Read Value(dBuV) + Correction Factor(dB)

- $2.\ Correction\ Factor(dB) = LISN\ Factor\ (dB) + Cable\ Factor\ (dB) + Limiter\ Factor(dB)$
- 3. The other emission levels were very low against the limit.

Table 7 Conducted Disturbance Test Data

Mode: 1

	Line									
Frequency	Correction		Quasi-Peak			Average				
(MHz)	Factor (dB)	Reading (dBμV)	Emission Level (dBµV)	Limits (dBµV)	Reading (dBμV)	Emission Level (dBµV)	Limits (dBµV)			
0.450	10.0	42.6	52.6	56.8	34.6	44.6	46.8			
0.540	10.0	42.9	52.9	56	33.9	43.9	46			
0.630	10.0	42.3	52.3	56	22.5	42.5	46			
1.627	10.1	41.5	51.5	56	29.1	39.2	46			
2.535	10.1	42.3	52.4	56	29.4	39.5	46			
4.525	10.2	40.7	50.9	56	28.5	38.7	46			

 $\pmb{REMARKS}\text{: 1. Emission level} (dBuV) = Read\ Value(dBuV) + Correction\ Factor(dB)$

- 2. Correction Factor(dB) =LISN Factor (dB) + Cable Factor (dB)+Limiter Factor(dB)
- 3. The other emission levels were very low against the limit.

Table 8 Conducted Disturbance Test Data

Mode: 1

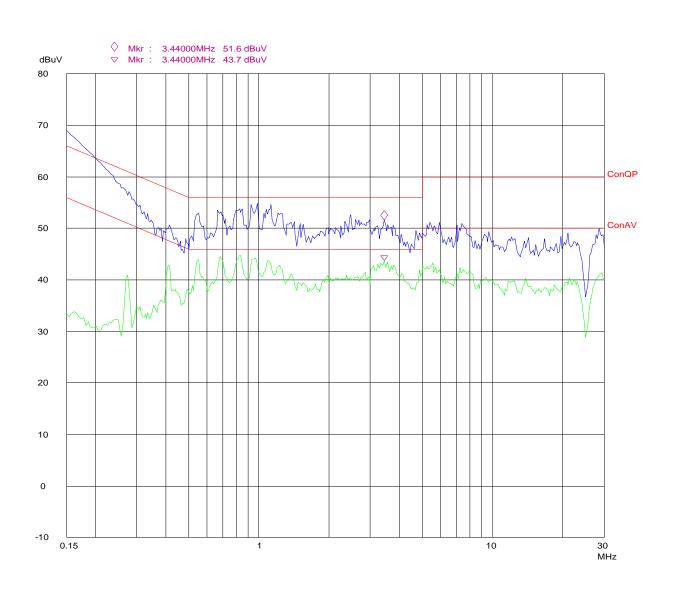
Neutral									
Frequency	Correction		Quasi-Peak		Average				
(MHz)	Factor (dB)	Reading (dBμV)	Emission Level (dBµV)	Limits (dBµV)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)		
0.454	10.0	44.4	54.4	56.8	34.8	44.8	46.8		
0.539	10.0	43.7	53.7	56	34.3	44.3	46		
0.632	10.0	42.1	52.1	56	33.1	43.1	46		
1.451	10.1	42.8	52.8	56	31.7	41.8	46		
2.450	10.1	42.3	52.4	56	30.3	40.4	46		
3.276	10.2	40.6	50.8	56	28.2	38.4	46		

 $\pmb{REMARKS}\text{: 1. Emission level} (dBuV) = Read\ Value(dBuV) + Correction\ Factor(dB)$

- $2.\ Correction\ Factor(dB) = LISN\ Factor\ (dB) + Cable\ Factor\ (dB) + Limiter\ Factor(dB)$
- 3. The other emission levels were very low against the limit.

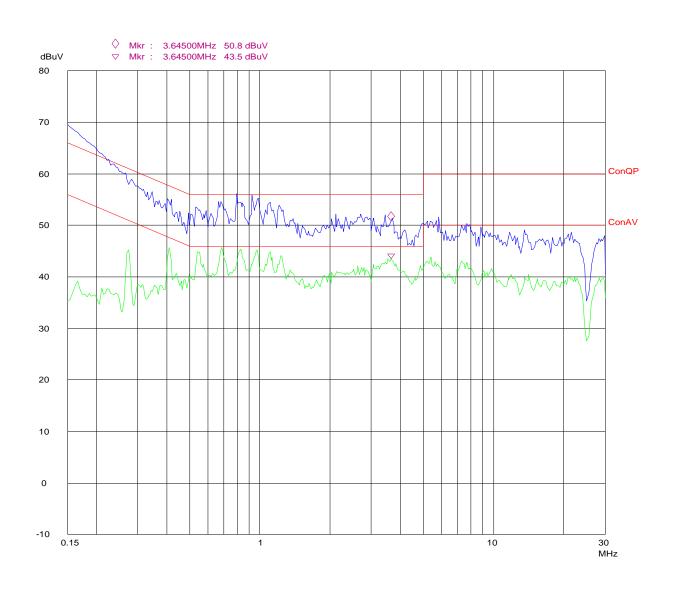
EUT: Op Cond: Test Spec: Comment: 45602 ON

L AC 120V/60Hz



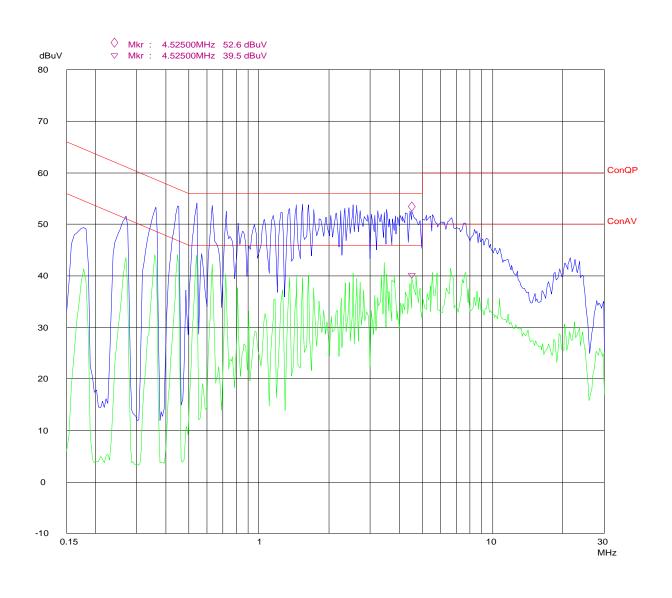
45602 ON EUT: Op Cond: Test Spec:

N AC 120V/60Hz Comment:



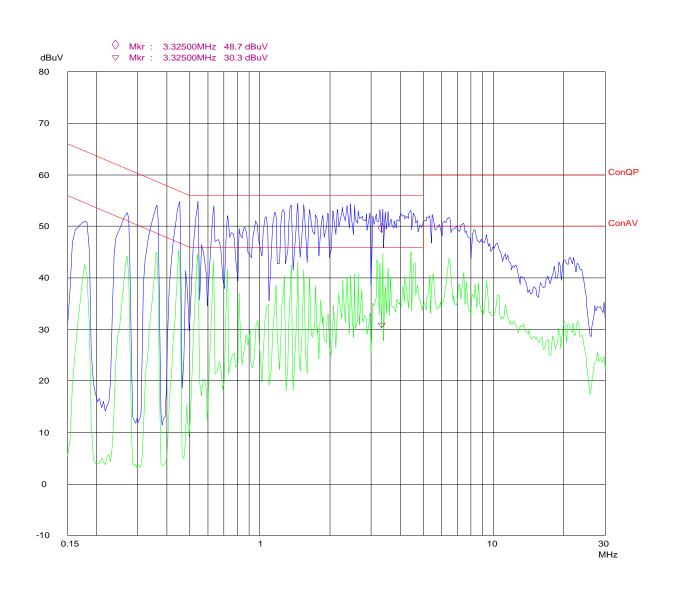
EUT: 45603 Op Cond: ON Test Spec: L

Test Spec: L
Comment: AC 120V/60Hz



45603 ON EUT: Op Cond: Test Spec:

N AC 120V/60Hz Comment:



6. RADIATED DISTURBANCE TEST

6.1. Test Standard and Limit

6.1.1.Test Standard

FCC Part 15:2006

6.1.2.Test Limit

Table 9 Radiated Disturbance Test Limit (Class B)

FREQUENCY			FIELD STRENGTHS	FIELD
N	ИHz		LIMITS	STRENGTHS
			$(\mu V/m)$	LIMITS
				$dB (\mu V/m)$
Fund	lamen	tal	50000	94.0
Har	monic	es	500	54.0
30	~	88	100	40.0
88	~	216	150	43.5
216	~	960	200	46.0
960	~		500	54.0

^{*} The lower limit shall apply at the transition frequency.

6.2. Test Procedure

The EUT is placed on a turntable, which is 0.8 meter above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and 13 of ANSI C63.4-2003.

The RBW of the EMI test receiver is:

30~1000MHz 120KHz 1000-18000MHz 1MHz

6.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

^{*} The test distance is 3m.

6.4. Test Data

Table 10 Radiated Disturbance Test Data

Model number: 45603 Test Mode:1 Frequency Polarization Reading Correction Emission Limits Note Antenna (MHz) Value Factor Level dB (µ Factor $(dB \mu V)$ (dB) (dB/m) dB (μ V/m) V/m) Fundamental 908.386 V 42.6 5.1 20.7 68.4 94.0 OP Fundamental 908.386 Н 41.1 5.1 20.7 66.9 94.0 QP Harmonics 1816.806 V -32.3 27.2 74.0 41.6 36.5 PΚ Harmonics 1816.806 V 35.1 -32.3 27.2 30.0 54.0 ΑV

- 2. Correction Factor(dB/m) = Cable Factor (dB)+Amplifier Factor(dB)
- 3. The other emission levels were less than the limit 20dB

Table 11 Radiated Disturbance Test Data

Model number: 45603

Test Mode:2

Frequency	Polarization	Reading	Cable	Antenna	Level	Limits	Note
(MHz)		$(dB \mu V)$	Loss R1	Factor	dB (μ V/m)	dB (µ	
			(dB)	(dB/m)		V/m)	
			-				

- 2. Correction Factor(dB/m) = Cable Factor(dB) + Amplifier Factor(dB)
- 3. The other emission levels were less than the limit 20dB

Table 12 Radiated Disturbance Test Data

Model number: 45602

Test Mode:1

Frequency	Polarization	Reading	Correction	Antenna	Emission	Limits	Note
(MHz)		Value	Factor	Factor	Level	dB (µ	
		$(dB \mu V)$	(dB)	(dB/m)	dB (µ V/m)	V/m)	
908.390	V	38.4	5.1	20.7	64.2	94.0	Fundamental
708.370	v	36.4	5.1	20.7	04.2	74.0	QP
908.395	Н	35.9	5.1	20.7	61.7	94.0	Fundamental
908.393	п	33.9	3.1	20.7	01.7	94.0	QP
1016 000	17	20.2	22.2	27.2	22.1	74.0	Harmonics
1816.800	V	38.2	-32.3	27.2	33.1	74.0	PK
1016 000	37	22.2	22.2	27.2	27.1	54.0	Harmonics
1816.800	V	32.2	-32.3	27.2	27.1	54.0	AV

- 2. Correction Factor(dB/m) = Cable Factor(dB) + Amplifier Factor(dB)
- 3. The other emission levels were less than the limit 20dB

Table 13 Radiated Disturbance Test Data

Model number: 45602

Test Mode:2

Frequency	Polarization	Reading	Cable	Antenna	Level	Limits	Note
(MHz)		$(dB \mu V)$	Loss R1	Factor	dB (μ V/m)	dB (µ	
			(dB)	(dB/m)		V/m)	

- 2. Correction Factor(dB/m) = Cable Factor(dB) + Amplifier Factor(dB)
- 3. The other emission levels were less than the limit 20dB

Table 14 Restricted Band Radiated Emission Data

MHz	MHz	MHz	GHz
0.090 - 0.110 0.495 - 0.505 2.1735 - 2.1905 4.125 - 4.128 4.17725 - 4.17775 4.20725 - 4.20775 6.215 - 6.218 6.26775 - 6.26825 6.31175 - 6.31225 8.291 - 8.294 8.362 - 8.366 8.37625 - 8.38675 8.41425 - 8.41475 12.29 - 12.293 12.51975 - 12.52025 12.57675 - 12.57725 13.36 - 13.41	16.42 - 16.423 16.69475 - 16.69525 16.80425 - 16.80475 25.5 - 25.67 37.5 - 38.25 73 - 74.6 74.8 - 75.2 108 - 121.94 123 - 138 149.9 - 150.05 156.52475 - 156.52525 156.7 - 156.9 162.0125 - 167.17 167.72 - 173.2 240 - 285 322 - 335.4	399.9 - 410 608 - 614 960 - 1240 1300 - 1427 1435 - 1626.5 1645.5 - 1646.5 1660 - 1710 1718.8 - 1722.2 2200 - 2300 2310 - 2390 2483.5 - 2500 2655 - 2900 3260 - 3267 3332 - 3339 3345.8 - 3358 3600 - 4400	4.5 - 5.15 5.35 - 5.46 7.25 - 7.75 8.025 - 8.5 9.0 - 9.2 9.3 - 9.5

All the emission of the above band were less than the limit 20dB.

7. OCCUPIED BANDWIDTH

7.1. Test Standard and Limit

7.1.1.Test Standard

FCC Part 15:2006

7.2. Test Procedure

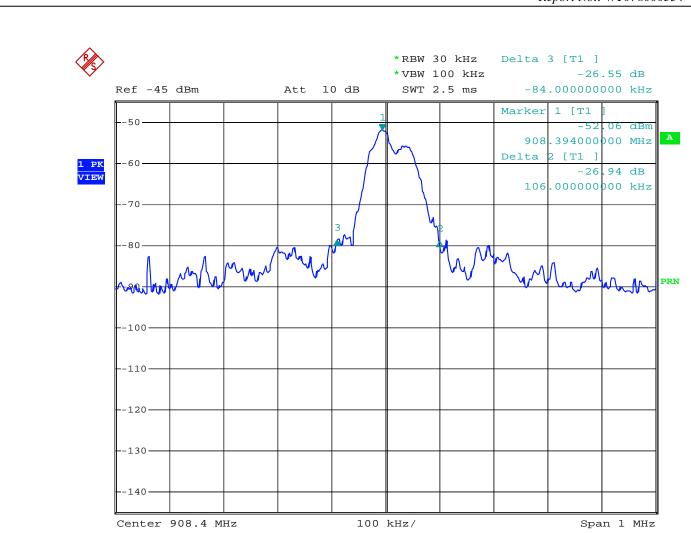
- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2.Set EUT as normal operation
- 3.Set EMI test receiver(ESIB26) Center Frequency = fundamental frequency, RBW=3kHz, VBW= 3kHz, Span=2MHz.
- 4. Set EMI test receiver(ESIB26) Max hold. Mark peak, -26dB.

7.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

7.4. Test Data

The test was performed with 45603 (the worst case). 26dB bandwidth =190.0 kHz



Comment: Conducted Disturbance
Date: 2.MAR.2007 11:56:20

8. BAND EDGE

8.1. Test Standard and Limit

8.1.1.Test Standard

FCC Part 15 15.249:2006

8.2. Band Edge FCC 15.249(d) Limit

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation

8.3. Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instruments. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- 3. Measure the highest amplitude appearing on spectral display and set it as reference level. Plot the graph with marking the highest point and edge frequency.
- 4. Repeat above procedures until all measured frequencies were complete.

8.4. Test Arrangement

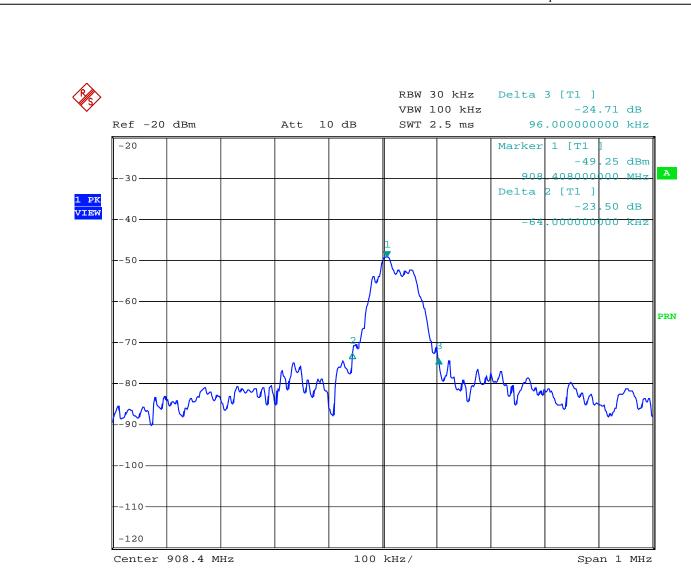
The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

8.5. Test Data

The test was performed with 45603 (the worst case). All the emission outside 908.344 to 908.514 is lower than 46 dB (μ V/m).

NOTE 1: The band edge emission plot of on page 27 low frequency shows23.5dBc. The emission of carrier strength list in the test result of low frequency is 68.4dBuV/m (QP), so the maximum field strength in restrict band is 68.4-23.5=44.9dBuV/m which is under 46dBuV/m limit.

NOTE 2: The band edge emission plot of on page 27 high frequency shows 24.7dBc. The emission of carrier strength list in the test result of high frequency is 68.4dBuV/m (QP), so the maximum field strength in restrict band is 68.4-24.7=43.7dBuV/m which is under 46dBuV/m limit.



Comment: Conducted Disturbance
Date: 20.MAR.2007 16:32:32

9.	ANTENNA REQUIREMENT
	According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The EUT has a built in antenna which is integrated on the PCB, this is permanently attached antenna and meets the requirements of this section.

	Report No.: WT078000354
APPENDIX I TEST PHOTO	

Photo 1 Conducted Emission Test (45603)



Photo 2 Conducted Emission Test (45603)



Photo 3 Radiated Emission Test (45603)

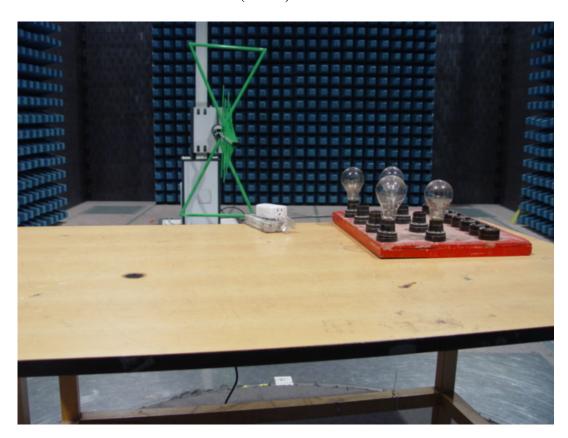


Photo 4 Radiated Emission Test (45603)

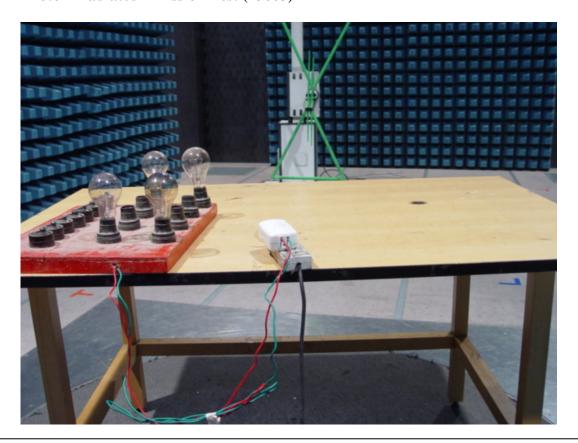


Photo 5 Radiated Emission Test (45603)

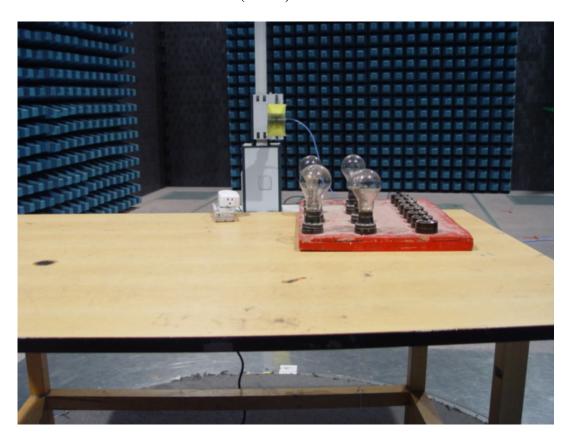
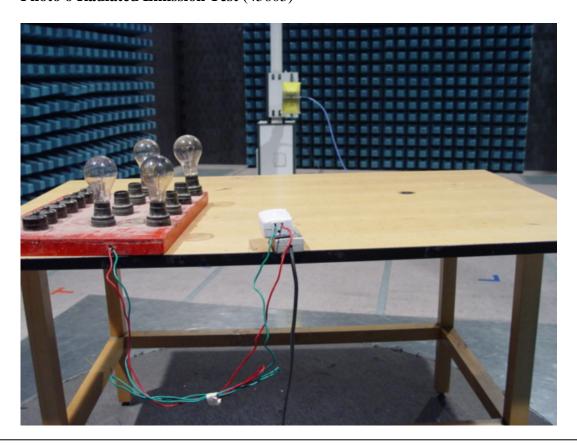


Photo 6 Radiated Emission Test (45603)



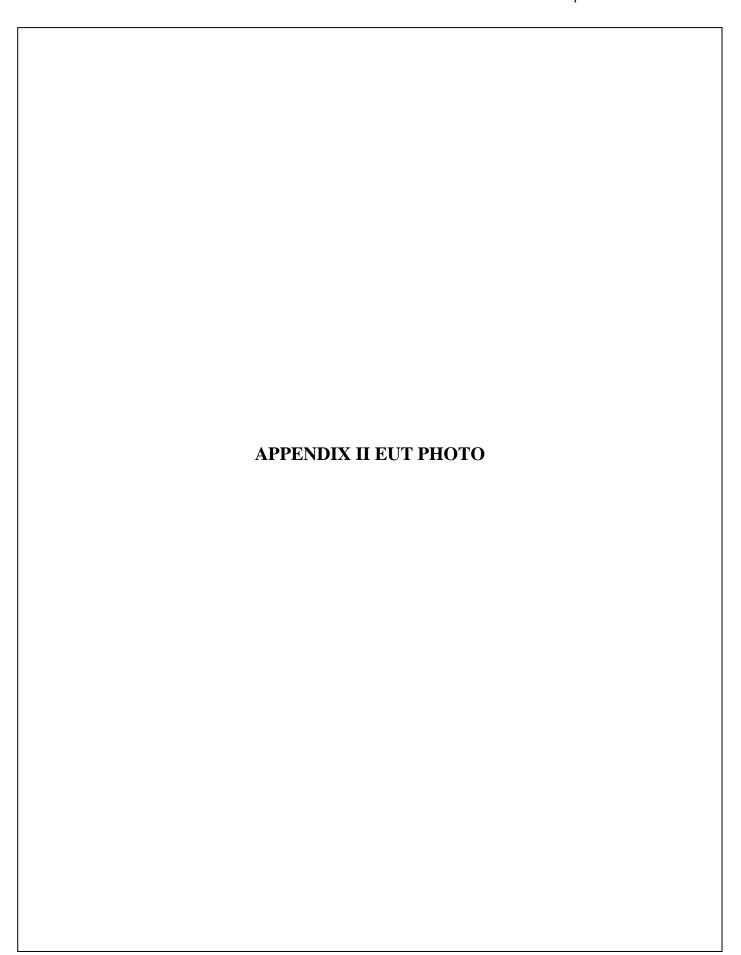


Photo 1 Appearance of EUT (45603)



Photo 2 Appearance of EUT (45603)



Photo 3 Inside of EUT (45603)



Photo 4 Inside of EUT (45603)

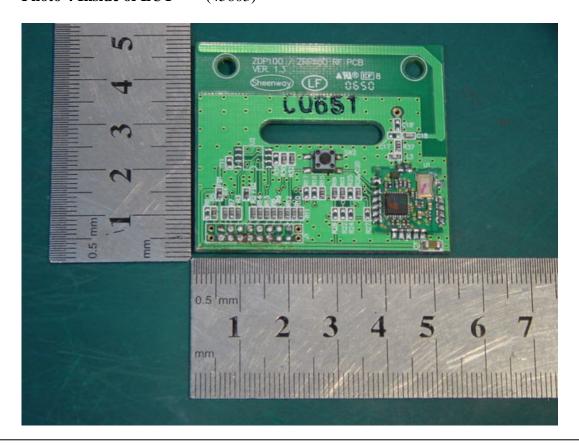


Photo 5 Inside of EUT (45603)

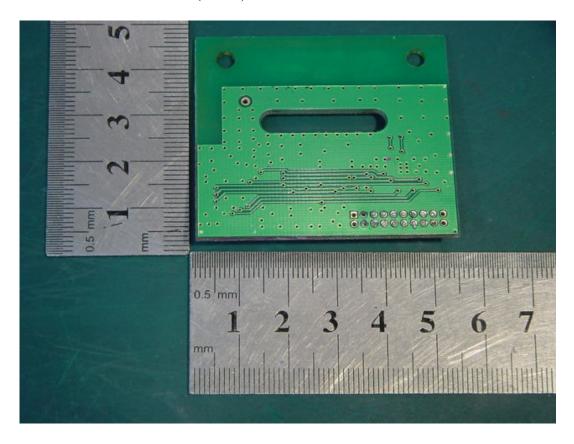


Photo 6 Inside of EUT (45603)

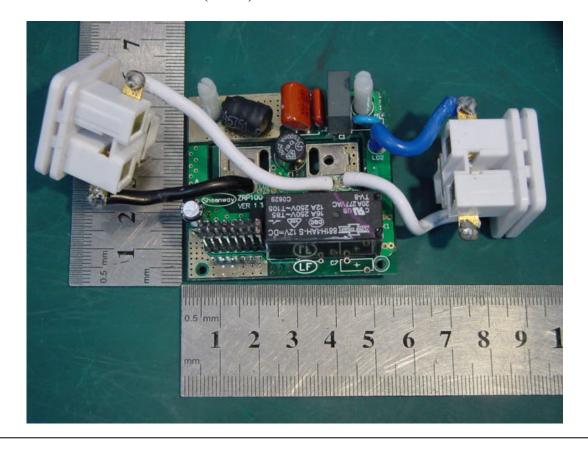


Photo 7 Inside of EUT (45603)

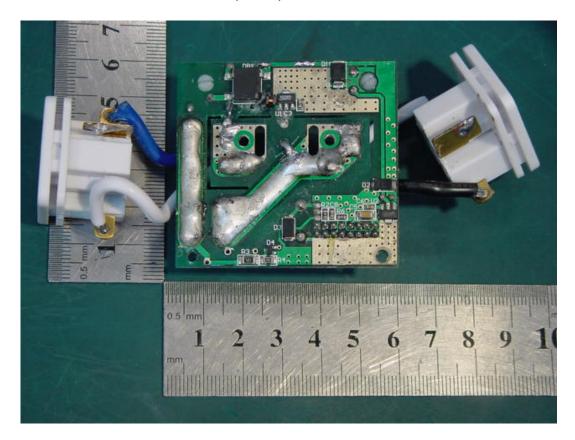


Photo 8 Appearance of EUT (45602)



Photo 9 Appearance of EUT (45602)



Photo 10 Inside of EUT (45602)



Photo 11 Inside of EUT (45602)

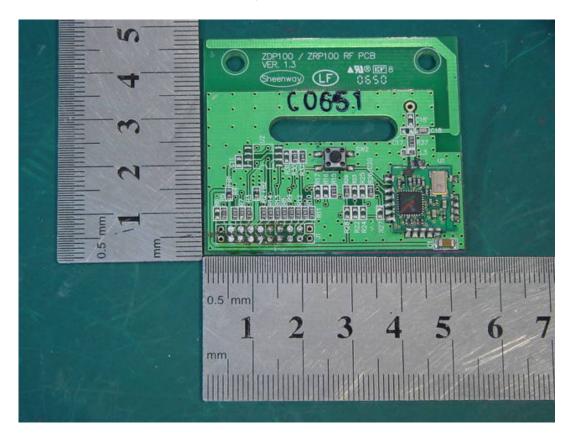


Photo 12 Inside of EUT (45602)

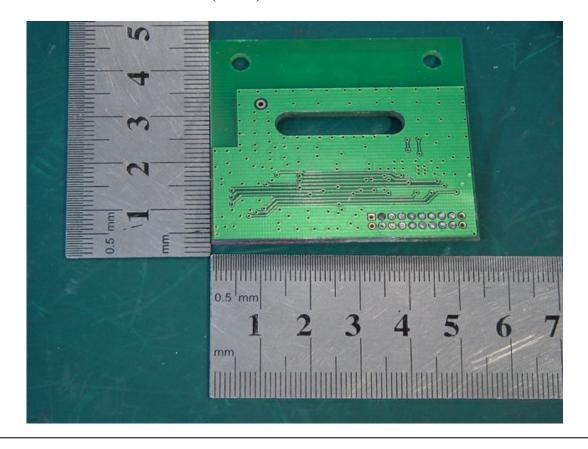


Photo 13 Inside of EUT (45602)

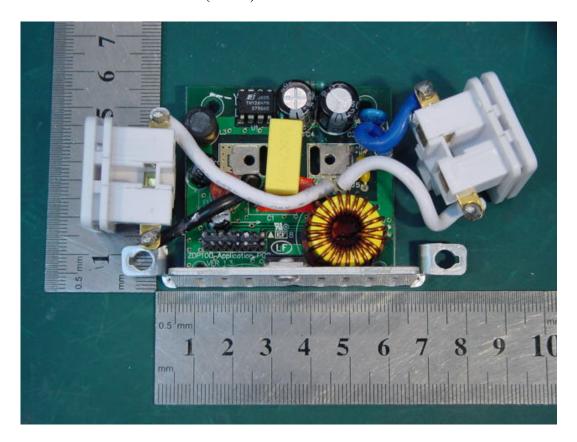


Photo 14 Inside of EUT (45602)

