







ISO/IEC17025 Accredited Lab.

Report No: FCC 0901009 File reference No: 2009-08-04

Applicant: Heng Yu Electronic Manufacturing Co. Ltd.

Product: Advertising Panel

Brand Name: N/A

Model No: PC801A

Test Standards: FCC Part 15 Subpart B: 2008

Test result: It is herewith confirmed and found to comply with the requirements

set up by ANSI C63.4&FCC Part 15 regulations for the evaluation of

electromagnetic compatibility

Approved By

Temy Tong

Terry Tang

Manager

Dated: Aug 04, 2009

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. Chegongmiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996

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Date: 2009-08-04



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The 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 our files. Registration No.: 899988.

IC- Registration No.: IC5205A-01

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

VCCI- Registration No.: R-3015 and C-3332

The 3m Semi-anechoic chamber and Shielded Room of Shenzhen Timeway Technology Consulting Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3015 and C-3332 respectively. Date of Registration: March 26, 2009. Valid until March 25, 2012

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

Address: East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. CheGongMiao, FuTian District,

Shenzhen, CHINA.

Telephone: (755) 83448688 Fax: (755) 83442996

1.2 Applicant Details

Applicant: Heng Yu Electronic Manufacturing Co. Ltd.

Address: Room 1503, Nan Fung Commercial Centre, 19 Lam Lok Street, Kowloon Bay, Kowloon,

Hong Kong

Telephone: 00852-23941852 Fax: 00852-23941865

1.3 Description of EUT

Product: Advertising Panel

Manufacturer: Zhuhai Heng Yu New Technology Company Limited

Address: HengKe Technology Campus, Jin Hai Avenue, Sanzao, Jin Wan District, Zhuhai,

Guangdong, PRC 519040

Brand Name: N/A Model Number: PC801A

Additional Model Number: AP801A, APM800

Rating: Input: 1A, 12V

Remark: Just the appearance is different among models.

1.4 Submitted Sample: 1 Sample

1.5 Test Duration: 2009-07-16 to 2009-07-31

1.6 Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB Radiated Emissions Uncertainty = 4.7dB

1.7 Test Engineer

The sample tested by

Print Name: Paul Tong

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2.0 **List of Measurement Equipment**

2.1 **Conducted Emission Test**

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESH3	860905/006	RS	2009.2.22	1Year
			EM Electronics		
Coaxial Switch	EMSW18		Corporation	N/A	N/A
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2009.2.22	1Year
LISN	ESH3-Z5	100294	RS	2009.2.22	1Year
LISN	ESH3-Z5	100253	RS	2009.2.22	1Year

2.2 Radiated electromagnetic disturbance test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2009.2.22	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer	HP8595E	3441A00893	HP	2009.2.22	1Year
Amplifier	8657B	3208U02589	HP	2009.2.22	1Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2009.2.22	1Year

2.3 **Auxiliary Equipment**

	Tuxinary Equipment	1	T	1	
Name	Model No.	Serial No.	Manufacturer	Cable	FCC ID/DOC
		•		1.8m length	
PC	1310		DELL	AC Mains cable	FCC DOC
				Data cable of	
Mouse			DELL	1.5m length	FCC DOC
				Data cable of	
				1.5m length	
				unshielded and	
				1.8m length AC	
Monitor	FP51G	ET47604175CLO	BENQ	Mains cable	FCC DOC
				Data cable of	
				1.5m length	
				unshielded and	
				1.8m length AC	
Monitor	6331-4CN	23-DNWX3	IBM	Mains cable	FCC DOC

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3.0 **Technical Details**

3.1 **Investigations Requested** Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

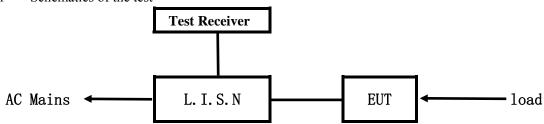
3.2 **Test Standards**

FCC Part 15 Subpart B: 2008



4.0 Conducted Power line Test

4.1 Schematics of the test



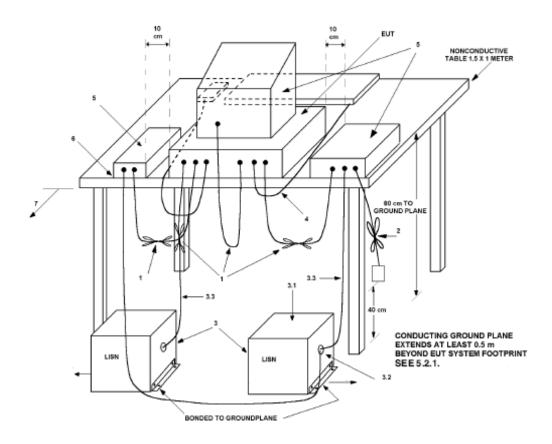
EUT: Equipment Under Test

4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Test Voltage: 120V∼, 60Hz

Block diagram of Test setup



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4.3 Power line conducted Emission Limit

Engagen av (MHz)	Class A Li	mits dB(μV)	Class B Lin	nits dB(µV)
Frequency(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.00	66.00	66.00~56.00*	56.00~46.00*
$0.50 \sim 5.00$	73.00	60.00	56.00	46.00
5.00 ~ 30.00	73.00	60.00	60.00	50.00

Notes:

- 1. *decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

4.4 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.



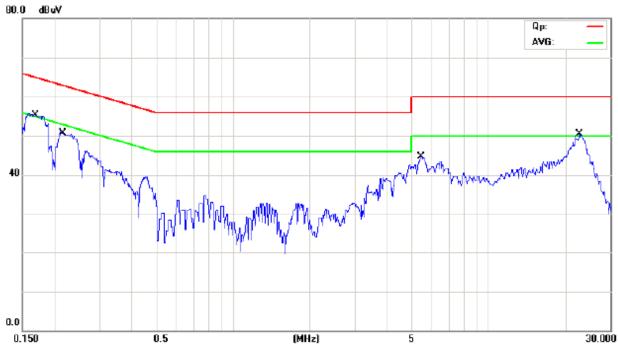
A: Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)

EUT Operating Environment

Temperature: 26°C Humidity:65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Memory

Level: Class B
Results: Pass



Frequency	Line	Reading(dBμV)		Limit(dBµV)	
(MHz)		Quasi-peak	Average	Quasi-peak	Average
0.168	Live	55.54	31.64	65.05	55.05
0.215	Live	50.79	33.85	63.01	53.01
5.470	Live	45.57	38.63	60.00	50.00
22.598	Live	46.26	41.06	60.00	50.00



B: Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT Operating Environment

Temperature: 26°C Humidity:65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Memory

Level: Class B
Results: Pass



Frequency	Line -	Reading(dBµV)		Limit(dBµV)	
(MHz)		Quasi-peak	Average	Quasi-peak	Average
0.157	Neutral	57.80	46.87	65.59	55.59
0.222	Neutral	52.02	42.47	62.73	52.73
3.859	Neutral	42.03	34.47	56.00	46.00
5.500	Neutral	42.99	37.27	60.00	50.00



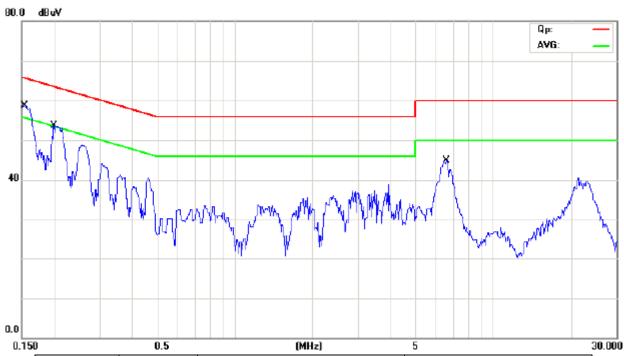
C: Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)

EUT Operating Environment

Temperature: 26°C Humidity:65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play USB

Level: Class B
Results: Pass



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)		Quasi-peak	Average	Quasi-peak	Average
0.154	Live	58.40	30.50	65.74	55.74
0.198	Live	50.01	33.01	63.66	53.66
6.607	Live	42.32	34.72	60.00	50.00



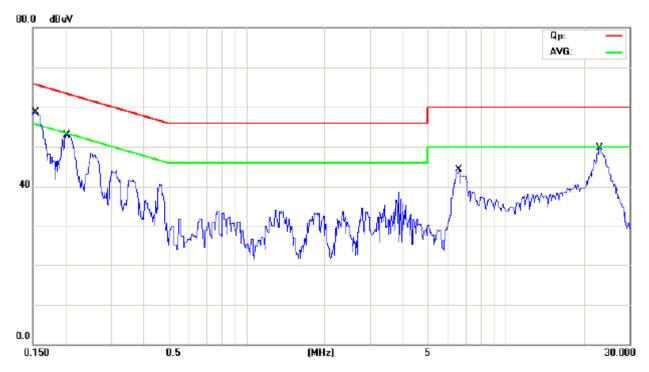
D: Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT Operating Environment

Temperature: 26°C Humidity:65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play USB

Level: Class B
Results: Pass



Frequency	Line	Reading(dBµV)		$Limit(dB\mu V)$	
(MHz)		Quasi-peak	Average	Quasi-peak	Average
0.152	Neutral	56.97	37.22	65.86	55.86
0.201	Neutral	51.14	33.42	63.54	53.54
6.587	Neutral	42.16	33.15	60.00	50.00
22.849	Neutral	45.67	40.87	60.00	50.00



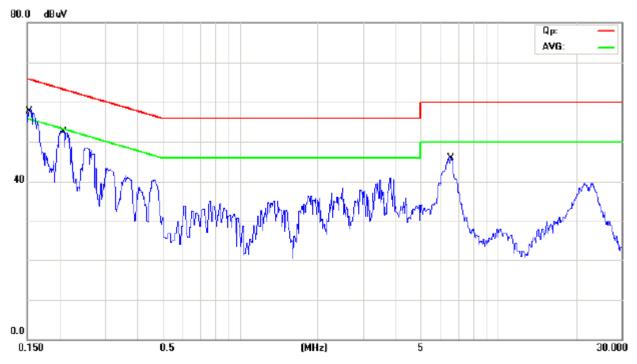
E: Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)

EUT Operating Environment

Temperature: 26°C Humidity:65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: W LAN

Level: Class B
Results: Pass



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.151	Live	56.70	36.40	65.91	55.91
0.206	Live	51.06	31.40	63.37	53.37
6.527	Live	44.86	32.89	60.00	50.00



F: Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT Operating Environment

Temperature: 26°C Humidity:65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: W LAN

Level: Class B
Results: Pass



Ψ.		0.5	UHI	12)	3		
	Frequency	Line	Reading(dBμV)	Limit(dBµV)		
	(MHz)	LIIIC	Quasi-peak	Average	Quasi-peak	Average	
	0.150	Neutral	54.60	29.90	65.97	55.97	
	0.204	Neutral	50.66	30.76	63.37	53.37	
	6.602	Neutral	43.13	36.83	60.00	50.00	
	23.168	Neutral	45.99	40.89	60.00	50.00	

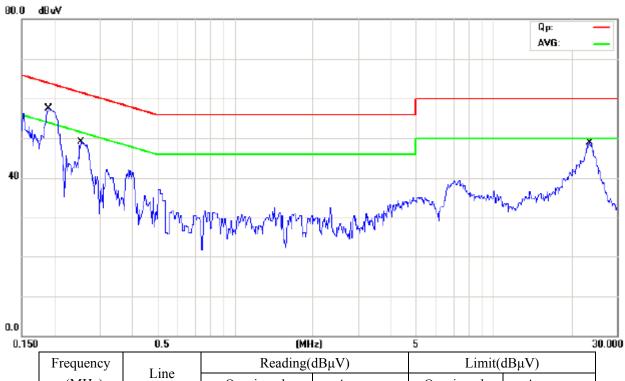


G: Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)

EUT Operating Environment

Temperature: 26°C Humidity:65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Connect to PC
Level: Class B
Results: Pass



	Frequency	Line	Reading(dBμV)	$Limit(dB\mu V)$	
	(MHz)		Quasi-peak	Average	Quasi-peak	Average
	0.191	Live	57.69	47.16	63.96	53.96
	0.255	Live	49.95	38.71	61.58	51.58
	23.486	Live	44.21	38.61	60.00	50.00



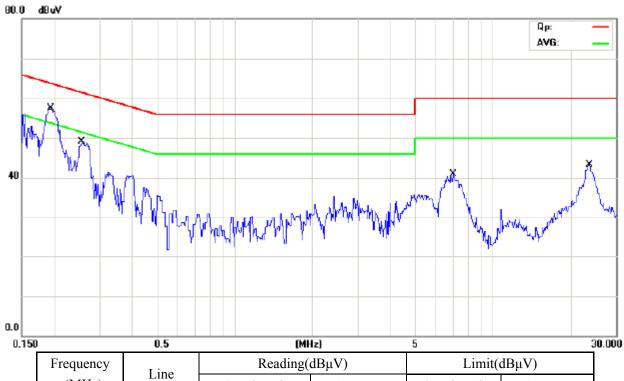
H: Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT Operating Environment

Temperature: 26°C Humidity:65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Connect to PC

Level: Class B
Results: Pass



Frequency	Line	Reading(dBμV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.190	Neutral	57.95	39.95	64.01	54.01
0.256	Neutral	49.95	36.27	61.56	51.56
7.040	Neutral	40.82	39.68	60.00	50.00
23.579	Neutral	43.07	40.97	60.00	50.00

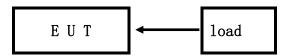
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5.0 Radiated Disturbance Test

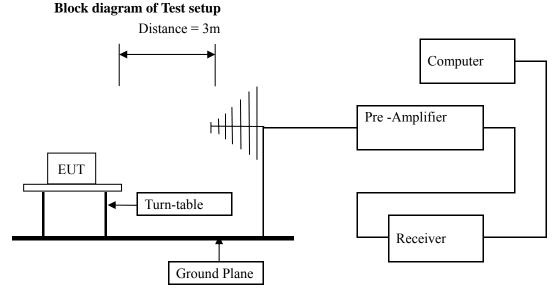
5.1 Schematics of the test



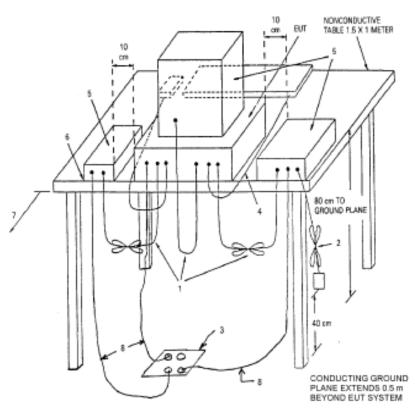
5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2003, The frequency spectrum from 30MHz to 1GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak 0values with a resolution bandwidth of 120KHz. All readings are above 1GHz, peak values with a resolution bandwidth of 1MHz. Measurements were made at 3 meters.

Test Voltage: 120V~, 60Hz







5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB µ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

Note: The lower limit shall apply at the transition frequencies

5.4 Test result

The frequency spectrum from 30MHz to 1GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120KHz. All readings are above 1GHz, peak values with a resolution bandwidth of 1MHz. Measurements were made at 3 meters.

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1 GHz

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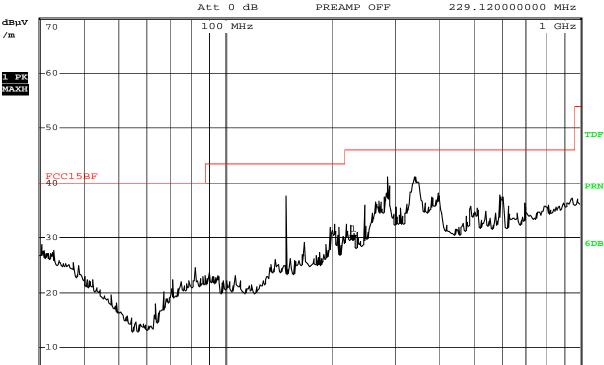
EUT set Condition: Memory Level: Class B **Results: PASS**

Please refer to following diagram for individual

Picture of the test

RBW 120 kHz Marker 1 [T1] мт 50 µs 29.49 dBµV/m

PREAMP OFF 229.120000000 MHz



31.JUL.2009 16:07:44 Date:

30 MHz

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
148.160	37.48	Н	43.50
246.920	35.90	Н	46.00
287.320	40.98	Н	46.00
344.080	41.12	Н	46.00

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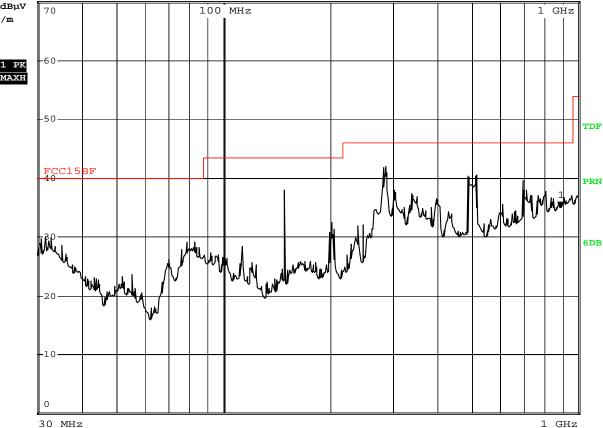
Radiated Disturbance In Vertical (30MHz---1000MHz)

EUT set Condition: Memory Level: Class B **Results: PASS**

Please refer to following diagram for individual

Picture of the test

RBW 120 kHz Marker 1 [T1] МТ 50 µs 34.96 dBµV/m Att 0 dB PREAMP OFF 891.880000000 MHz dΒμV 70 100 MHz



Date: 31.JUL.2009 16:12:44

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBµV/m)
148.160	37.99	V	43.50
286.560	41.96	V	46.00
516.440	40.60	V	46.00

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C: Radiated Disturbance In Horizontal (30MHz----1000MHz)

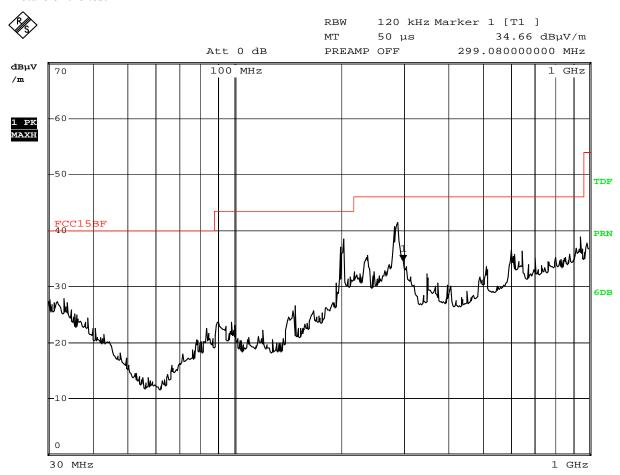
EUT set Condition: Play USB

Level: Class B

Results: PASS

Please refer to following diagram for individual

Picture of the test



Date: 31.JUL.2009 23:40:43

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
204.160	37.40	Н	43.50
288.840	40.90	Н	46.00

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D: Radiated Disturbance In Vertical (30MHz---1000MHz)

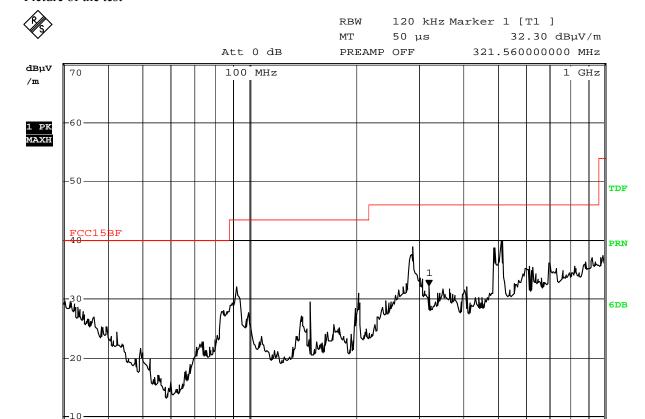
EUT set Condition: Play USB

Level: Class B

Results: PASS

Please refer to following diagram for individual

Picture of the test



Date: 31.JUL.2009 23:42:19

30 MHz

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
289.360	37.90	V	46.00
516.400	39.20	V	46.00

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Radiated Disturbance In Horizontal (30MHz----1000MHz)

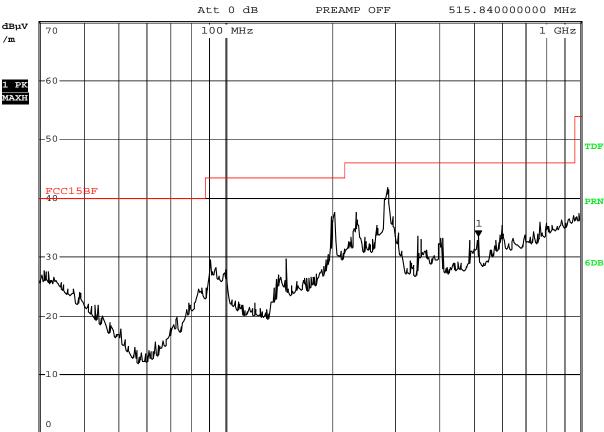
EUT set Condition: W LAN Level: Class B **Results: PASS**

Please refer to following diagram for individual

Picture of the test



RBW 120 kHz Marker 1 [T1] МТ 50 µs 33.62 dBµV/m



Date: 31.JUL.2009 23:34:42

30 MHz

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
203.000	36.50	Н	43.50
286.920	40.70	Н	46.00

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F: Radiated Disturbance In Vertical (30MHz---1000MHz)

EUT set Condition: W LAN

Level: Class B

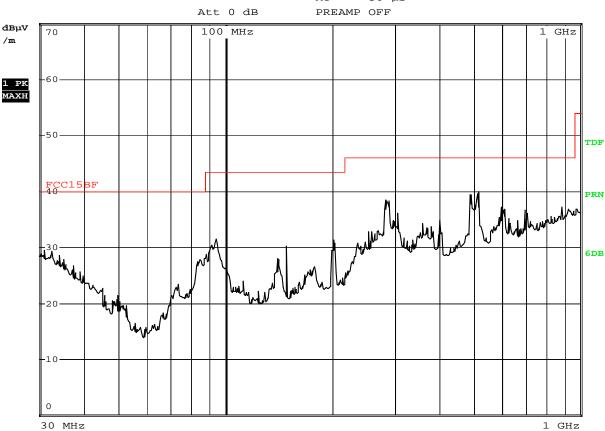
Results: PASS

Please refer to following diagram for individual

Picture of the test



RBW 120 kHz
MT 50 µs



Date: 31.JUL.2009 23:32:19

Frequency (MHz)	Level@3m ($dB\mu V/m$)	Antenna Polarity	Limit@3m ($dB\mu V/m$)
283.680	37.20	V	46.00
492.800	38.30	V	46.00
518.440	39.70	V	46.00

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1 GHz

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G: Radiated Disturbance In Horizontal (30MHz----1000MHz)

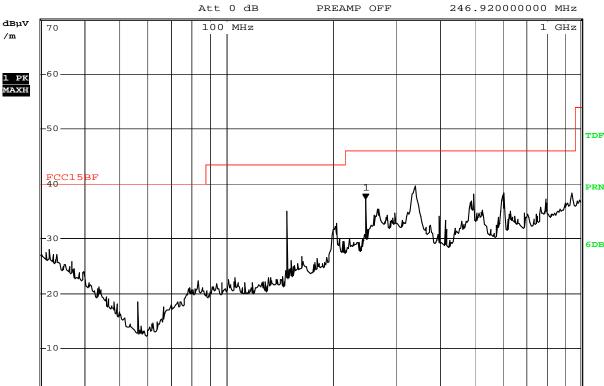
EUT set Condition: Connect to PC

Level: Class B **Results: PASS**

Please refer to following diagram for individual

Picture of the test

RBW 120 kHz Marker 1 [T1] мт 50 µs $37.22 \text{ dB}\mu\text{V/m}$



31.JUL.2009 16:23:00 Date:

30 MHz

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m ($dB\mu V/m$)
148.160	35.06	Н	43.50
246.920	37.22	Н	46.00
342.480	39.57	Н	46.00

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H: Radiated Disturbance In Vertical (30MHz---1000MHz)

EUT set Condition: Connect to PC

Level: Class B
Results: PASS

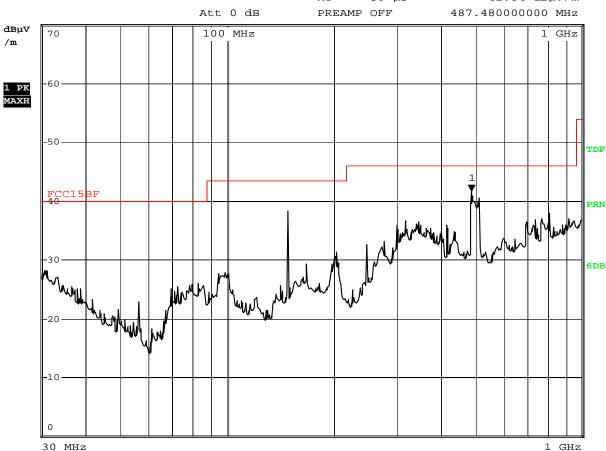
Please refer to following diagram for individual

Picture of the test

%

RBW 120 kHz Marker 1 [T1]

MT 50 μs 41.84 dBμV/m



Date: 31.JUL.2009 16:19:23

Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
148.160	38.22	V	43.50
487.480	41.84	V	46.00

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6.0 FCC ID Label

FCC ID: XEN-PC801

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:

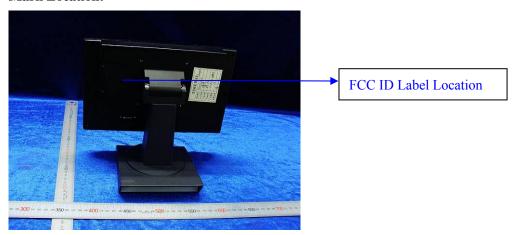




Photo of testing

7.1 Conducted test View--

Connect to PC



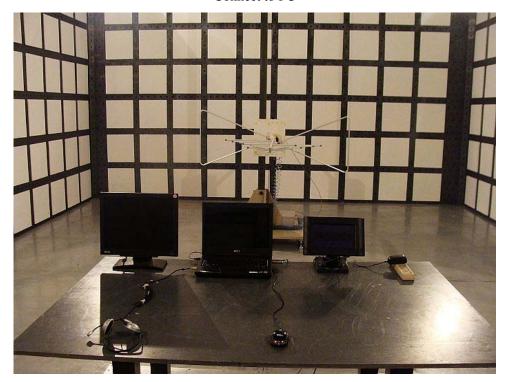
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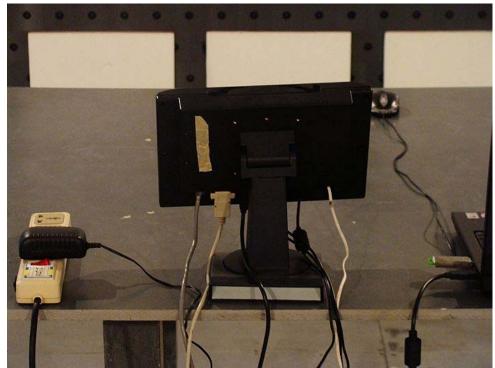
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7.2 Radiated emission test view--

Connect to PC





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7.3 Photo for the EUT



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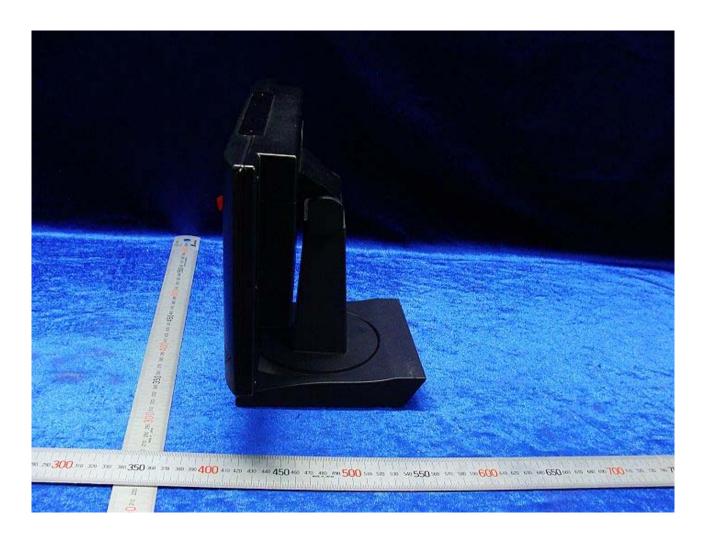




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Photo for the EUT



The report refers only to the sample tested and does not apply to the bulk.

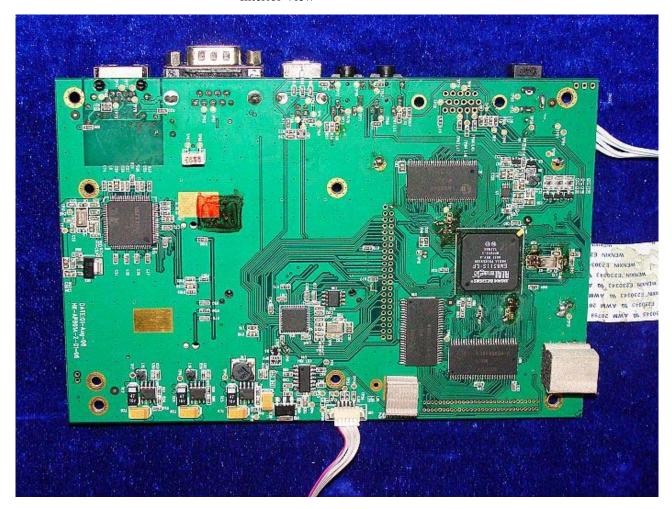
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7.9 Photo for the EUT



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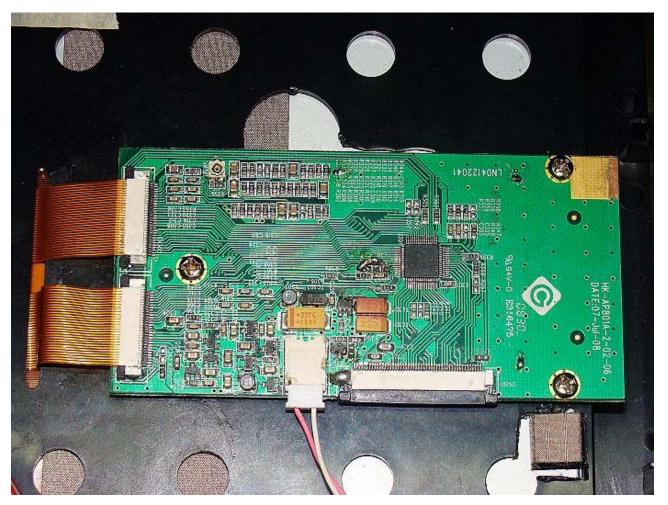




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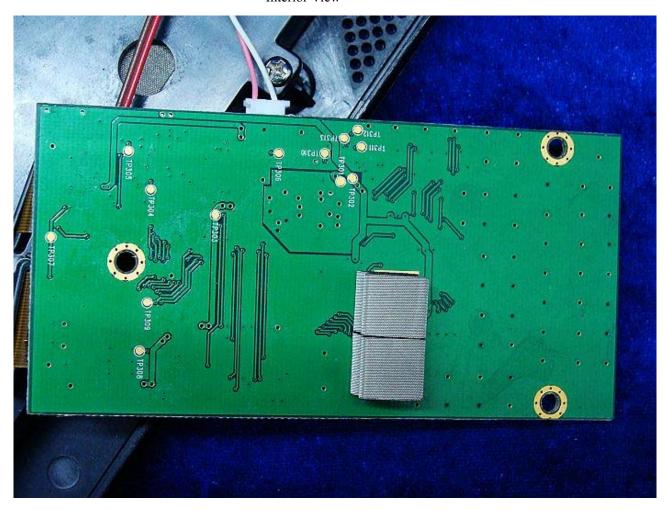


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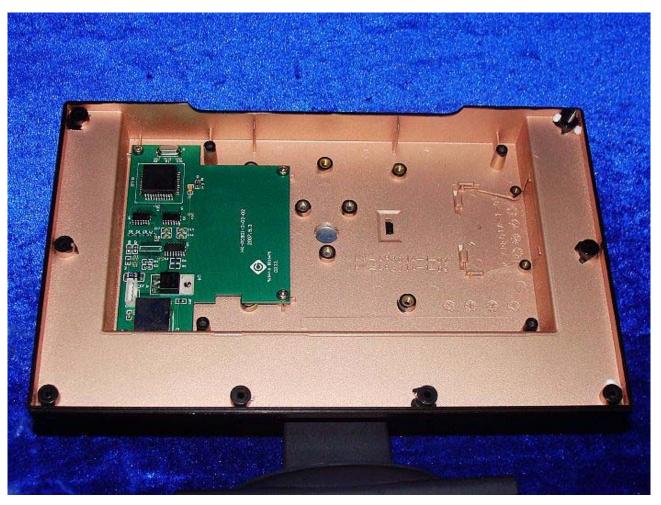




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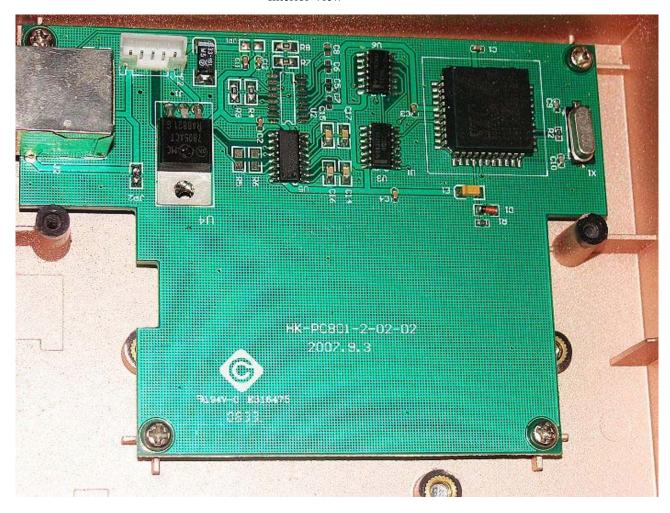




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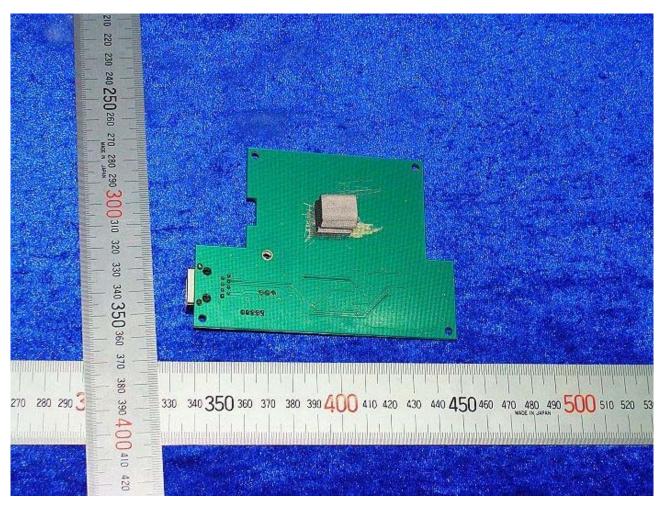


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7.15 Photo for the EUT



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7.15 Photo for the EUT



-- End of the report--