

APPLICATION OF CERTIFICATION  
For

BEHRINGER MACAO COMMERCIAL OFFSHORE LIMITED

Digital Piano

Model Number: CDP2400USB; EG8280USB; EG2280USB

FCC ID: XJVF09131

Prepared for : BEHRINGER MACAO COMMERCIAL OFFSHORE  
LIMITED  
Rua de Pequim, No 202-A Macau Finance Centre 9/J,  
MACAU

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Report Number : ACS-F09131  
Date of Test : Jul.01~02, 2009  
Date of Report : Jul.28, 2009

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## TEST REPORT CERTIFICATION

Applicant : BEHRINGER MACAO COMMERCIAL OFFSHORE LIMITED  
Manufacturer : Zhongshan Eurotec Electronics Ltd  
EUT Description : Digital Piano  
FCC ID : XJVF09131

(A) MODEL NO. : CDP2400USB; EG8280USB; EG2280USB  
(B) SERIAL NO. : N/A  
(C) TEST VOLTAGE : AC 120V/60Hz

Measurement Standard Used: ;

FCC Rules and Regulations Part 15 Subpart B Class B 2008, ANSI C63.4-2003  
CISPR 22: 1997

The device described above is tested by Audix Technology (Shenzhen) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits for radiated and conducted emissions. The test results are contained in this test report and Audix Technology (Shenzhen) Co., Ltd. is assumed full responsibility for the accuracy and completeness of tests. Also, this report shows that EUT is technically compliant with FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Date of Test: Jul.01~02, 2009

Prepared by:

*Daisy Ye*  
Daisy Ye / Assistant

Reviewer:

*Richzhy Zhong*  
Richzhy Zhong / Assistant Manager



Approved & Authorized Signer:

Ken Lu / Manager

## 1. SUMMARY OF STANDARDS AND RESULTS

### 1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Limits	Results
Power Line Conducted Emission Test	FCC Part 15: 2008 ANSI C63.4: 2003 CISPR 22: 1997	Class B	PASS
Radiated Emission Test	FCC Part 15: 2008 ANSI C63.4: 2003 CISPR 22: 1997	Class B	PASS

## 2. GENERAL INFORMATION

### 2.1. Description of Device (EUT)

Description : Digital Piano

Model Number : CDP2400USB; EG8280USB; EG2280USB  
The model name and construction dimension are different

Test model : CDP2400USB

FCC ID : XJVF09131

Applicant : BEHRINGER MACAO COMMERCIAL OFFSHORE LIMITED  
Rua de Pequim, No 202-A Macau Finance Centre 9/J, MACAU

Manufacturer : Zhongshan Eurotec Electronics Ltd  
Eurotec Industrial Park, #1 Junjing Road, Min Zhong Town,  
Zhongshan, Guangdong, China

Power Cord : Unshielded, Detachable, 1.7m

Date of Test : Jul.01~02, 2009

Date of Receipt : Jul.01, 2009

Sample Type : Prototype production

## 2.2. Tested Supporting System Details

### 2.2.1. PC

EMC CODE	:	Test PC O
M/N	:	Studio 540
S/N	:	H14XK2X
Manufacturer	:	DELL
Power cord	:	Unshielded, Detachabled, 1.8m
FCC ID	:	By DoC
BSMI ID	:	R33002
Display Card	:	HD3650 (Display port+DVI+HDMI)

### 2.2.2. Monitor

EMC CODE	:	ACS-EMC-LM03R
M/N	:	1907FPt
S/N	:	CN-009759-71618-6AP-ACPP
Manufacturer	:	DELL
Data Cable (VGA)	:	Shielded, Detachabled, 2.0m
Data Cable ( DVI )	:	Shielded, Detachabled, 2.0m
Power Cord	:	Unshielded, Detachabled, 1.8m
FCC ID	:	By DoC
BSMI ID	:	R3A002

### 2.2.3. USB Keyboard

EMC CODE	:	ACS-EMC-K03R
M/N	:	SK-2865
S/N	:	B3C770GCPNY010
Manufacturer	:	COMPAQ
Data Cable	:	Shielded, Undetachabled, 1.8m
FCC ID	:	By DoC
BSMI ID	:	3892A092

## 2.2.4. PRINTER

EMC CODE	:	ACS-EMC-PT04
M/N	:	C9079A
Manufacturer	:	HP
USB Cable	:	Shielded, Detachable, 1.8m
Power Cord	:	Unshielded, Detachable, 1.8m
FCC ID	:	By DoC
BSMI ID	:	R33001
Power Adaptor	:	Manufacturer: HP
		M/N: 0957-2119
		BSMI ID: R33030
		DC Cable: Unshielded, Detachable, 1.5m

## 2.2.5. USB MOUSE

EMC CODE	:	ACS-EMC-M03R
M/N	:	M056UO
S/N	:	512023253
Manufacturer	:	Dell
Data Cable	:	Shielded, Undetachable, 1.8m
FCC ID	:	By DoC
BSMI ID	:	R41108

## 2.2.6. HDD

EMC CODE	:	ACS-EMC-HDD03
M/N	:	F12-UF
S/N	:	A0100215-5390031
Manufacturer	:	Terasys
Data Cable	:	Shielded, Detachable, 1.8m
FCC ID	:	By DoC
BSMI ID	:	4912A022

## 2.2.7. Cables

USB Cable	:	Shielded, Detachable, 1.9m (With one core)
Line Out	:	Shielded, Detachable, 1.0m (Dummy Load 10k $\Omega$ )
Line In	:	Shielded, Detachable, 1.0m (Dummy Load 40 $\Omega$ )
MIDI In/ MIDI Out	:	Shielded, Detachable, 1.0m

### 2.3. Test Facility

#### Site Description

Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd. No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China
3m Anechoic Chamber	:	Mar. 31, 2009 File on Federal Communication Commission Registration Number: 90454
3m & 10m Anechoic Chamber	:	Jan. 31, 2007 File on Federal Communication Commission Registration Number: 794232
EMC Lab.	:	Accredited by DATech, German Registration Number: DAT-P-091/99-01 Feb. 02, 2009  Accredited by NVLAP, USA NVLAP Code: 200372-0 Apr. 01, 2009

### 2.4. Measurement Uncertainty ( 95% confidence levels, k=2 )

Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	2.40dB
Uncertainty for Radiation Emission test in 10m chamber	4.04 dB (Distance: 10m Polarize: V)
	4.02 dB (Distance: 10m Polarize: H)
Uncertainty for test site temperature and humidity	0.6°C
	3%



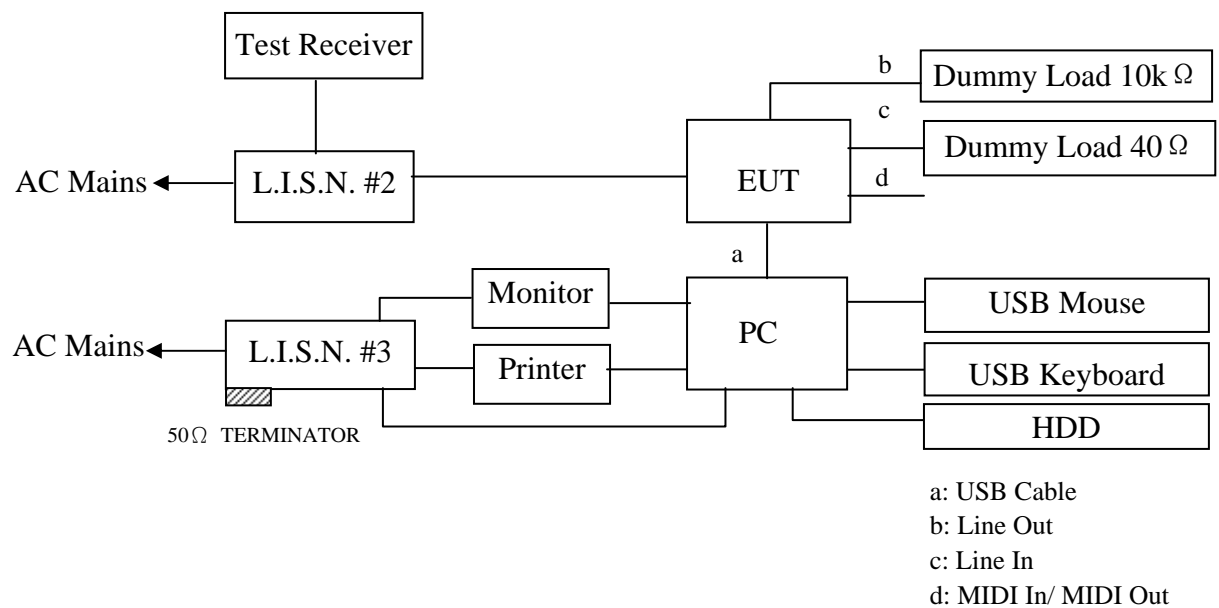
### 3. POWER LINE CONDUCTED EMISSION TEST

#### 3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Jan.10, 09	1 Year
2.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1636-1	May.08, 09	1 Year
3.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May.08, 09	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May.08, 09	1 Year
5.	RF Cable	Fujikura	3D-2W	LISN Cable 1#	May.08, 09	1 Year
6.	Coaxial Switch	Anritsu	MP59B	M55367	May.08, 09	1 Year
7.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 09	1 Year

#### 3.2. Block Diagram of Test Setup

##### 3.2.1. Block diagram of connection between the EUT and simulators



(EUT: Digital Piano)

#### 3.3. Power Line Conducted Emission Test Limits

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

Notes: 1. \* Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

### 3.4.Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

#### 3.4.1.Digital Piano (EUT)

Model Number : CDP2400USB

Serial Number : N/A

3.4.2.Support Equipment : As Tested Supporting System Detail, in Section 2.2.

### 3.5.Operating Condition of EUT

3.5.1.Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turn on the power of all equipment.

3.5.3.Let the EUT work in test mode (Playing and Recording) and measure it.

### 3.6.Test Procedure

The EUT was placed on the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 2#). This provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#3). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4-2003 on conducted Emission test.

The bandwidth of test receiver (R&S TEST RECEIVER ESHS10) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked. The test result are reported on Section 3.7.

### 3.7.Conducted Disturbance at Mains Terminals Test Results

**PASS.** (All emissions not reported below are too low against the prescribed limits.)

The EUT with the following test mode was tested and selected (mode 1) to read Q.P values and Average values, all the test results are listed in next pages.

EUT: Digital Piano

Model No. : CDP2400USB

Test Date: Jul.01, 2009

Temperature: 23℃

Humidity: 54%

The details of test mode are as follows :

NO.	Test Mode	Reference Test Data No.	
		VA	VB
1.	Playing and Recording	#5	#6

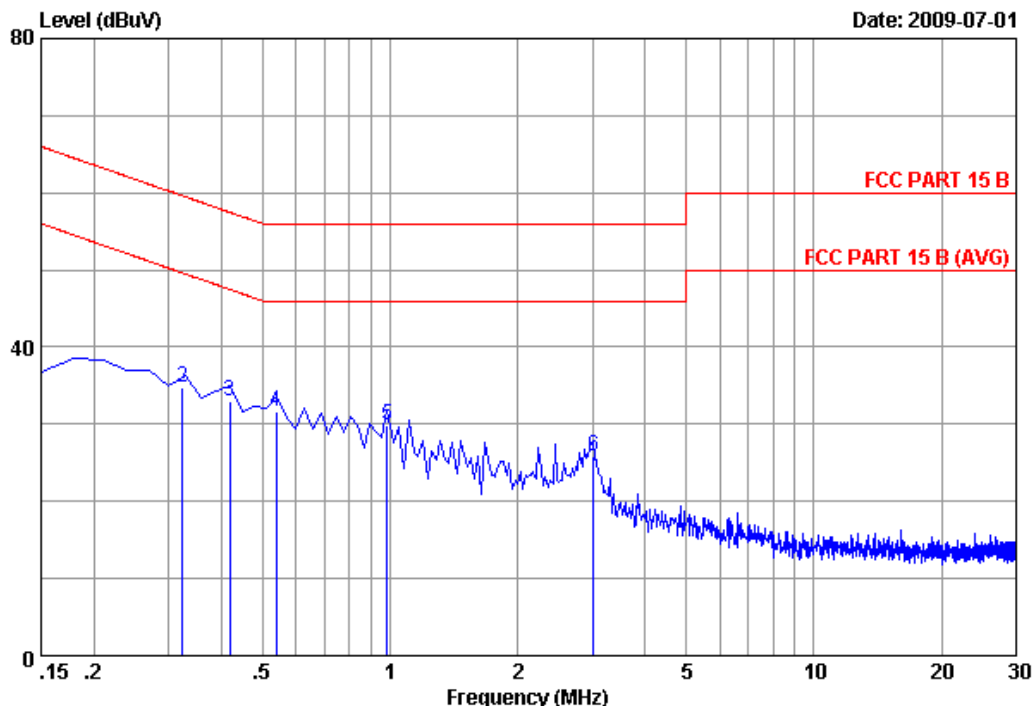


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Data: 5

File: D:\DATA\2009 Report\B\BEHRINGER\ACS9Q866.EM6 (8)

Date: 2009-07-01



Site no : Audix No.1 Conduction Data no : 5  
Dis./Ant. : \*\* 2009 KNW407 VA  
Limit : FCC PART 15 B  
Env./Ins. : Temp:23'C Humi:54% Engineer : Tom Zhang  
EUT : Digital Piano M/N: CDP2400USB  
Power Rating : AC 120V/60Hz  
Test Mode : Playing And Recording

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.47	9.88	24.35	34.70	66.00	31.30	QP
2	0.32400	0.37	9.89	24.60	34.86	59.60	24.74	QP
3	0.41865	0.35	9.89	22.77	33.01	57.47	24.46	QP
4	0.53805	0.34	9.89	21.38	31.61	56.00	24.39	QP
5	0.98580	0.33	9.89	19.72	29.94	56.00	26.06	QP
6	3.016	0.36	9.91	15.67	25.94	56.00	30.06	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading  
2.If the average limit is met when using a quasi-peak detector,  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.

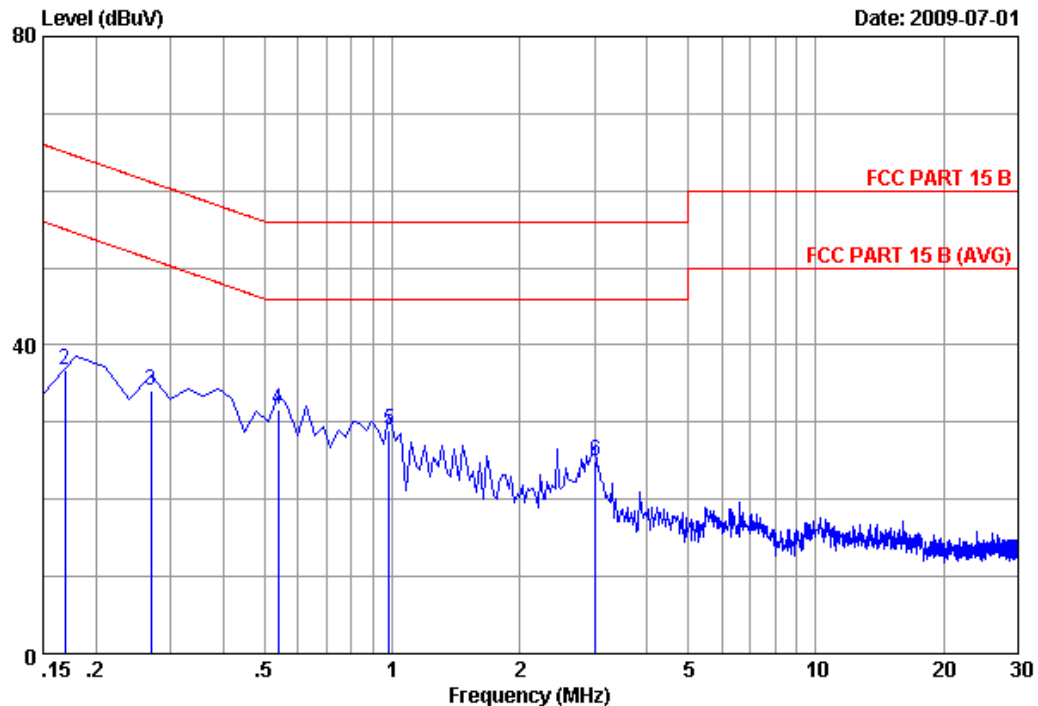


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Data: 6

File: D:\DATA\2009 Report\B\BEHRINGER\ACS9Q866.EM6 (8)

Date: 2009-07-01



Site no : Audix No.1 Conduction Data no : 6  
Dis./Ant. : \*\* 2009 KNW407 VB  
Limit : FCC PART 15 B  
Env./Ins. : Temp:23'C Humi:54% Engineer : Tom Zhang  
EUT : Digital Piano M/N: CDP2400USB  
Power Rating : AC 120V/60Hz  
Test Mode : Playing And Recording

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.49	9.88	21.35	31.72	66.00	34.28	QP
2	0.16900	0.47	9.88	26.40	36.75	65.01	28.26	QP
3	0.26940	0.42	9.88	23.78	34.08	61.14	27.06	QP
4	0.53805	0.35	9.89	21.38	31.62	56.00	24.38	QP
5	0.98580	0.35	9.89	18.72	28.96	56.00	27.04	QP
6	3.016	0.37	9.91	14.67	24.95	56.00	31.05	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading  
2.If the average limit is met when using a quasi-peak detector,  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.

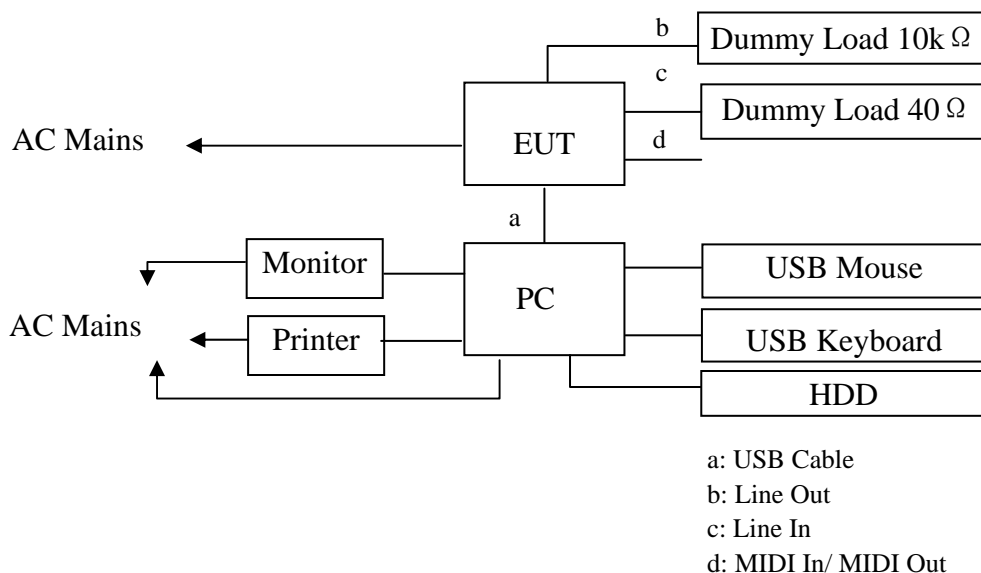
## 4. RADIATED EMISSION TEST

### 4.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	10m Chamber	AUDIX	N/A	N/A	Dec.05,08	1 Year
2	EMC Analyzer	Agilent	E7405A	MY42000131	May.08, 09	1 Year
3	EMC Analyzer	Agilent	E7405A	MY45116588	Oct.24,08	1 Year
4	Test Receiver	Rohde & Schwarz	ESCI	100842	Oct 24, 08	1 Year
5	Amplifier	Agilent	8447D	2944A10684	May.08, 09	1 Year
6	Amplifier	Agilent	8447D	2944A07794	May.08, 09	1 Year
7	Bilog Antenna	Schaffner	CBL6112D	25238	Feb.12, 09	1 Year
8	Bilog Antenna	Schaffner	CBL6112D	25237	Feb.12, 09	1 Year
9	RF Cable	MIYAZAKI	8D-FB	10m Chamber No.1	May.08, 09	1 Year
10	RF Cable	MIYAZAKI	8D-FB	10m Chamber No.2	May.08, 09	1 Year
11	Coaxial Switch	Anritsu	MP59B	6200766906	May.08, 09	1 Year
12	Coaxial Switch	Anritsu	MP59B	6200766907	May.08, 09	1 Year
13	Coaxial Switch	Anritsu	MP59B	M74389	May.08, 09	1 Year

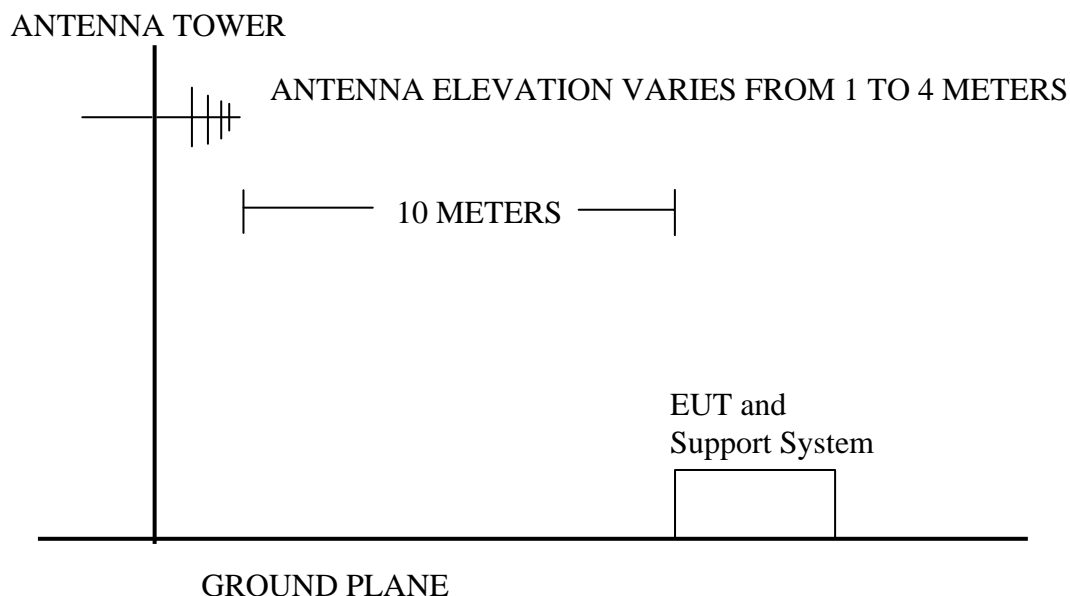
### 4.2. Block Diagram of Test Setup

#### 4.2.1. Block diagram of connection between the EUT and simulators



(EUT: Digital Piano)

## 4.2.2. In Anechoic (10m) Chamber Test Setup Diagram for 30MHz~1000MHz



## 4.3. Radiated Emission Limit

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dB $\mu$ V/m)
30 ~ 230	10	30
230 ~ 1000	10	37

- Remark :
- (1) Emission level dB $\mu$ V = 20 log Emission level  $\mu$ V/m
  - (2) The smaller limit shall apply at the cross point between two frequency bands.
  - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system

## 4.4. EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner that tends to maximize its emission characteristics in normal application.

## 4.4.1. Digital Piano (EUT)

Model Number : CDP2400USB  
 Serial Number : N/A

## 4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT as shown in Section 4.2.
- 4.5.2. Turn on the power of all equipment.
- 4.5.3. Let the EUT work in test mode (Playing and Recording) and test it.

#### 4.6. Test Procedure

The EUT was placed on the ground plane inside a semi-anechoic chamber. An antenna was located 10m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4-2003 on Radiated Emission test.

The bandwidth setting on the test receiver (R&S TEST RECEIVER ESCI) is 120 kHz.

The frequency range from 30MHz to 1000MHz is checked. The test results are reported on Section 4.7.

#### 4.7. Radiated Disturbance Test Results

**PASS.** (All emissions not reported below are too low against the prescribed limits.)

The EUT with the following test mode was tested and selected (mode 1) to read Q.P values, all the test results are listed in next pages.

EUT: Digital Piano

Model No. : CDP2400USB

Test Date: Jul.02, 2009

Temperature: 24℃

Humidity: 56%

The details of test mode are as follows :

NO.	Test Mode	Reference Test Data No.	
		Horizontal	Vertical
1.	Playing and Recording	#4	#3

For above 1GHz frequency

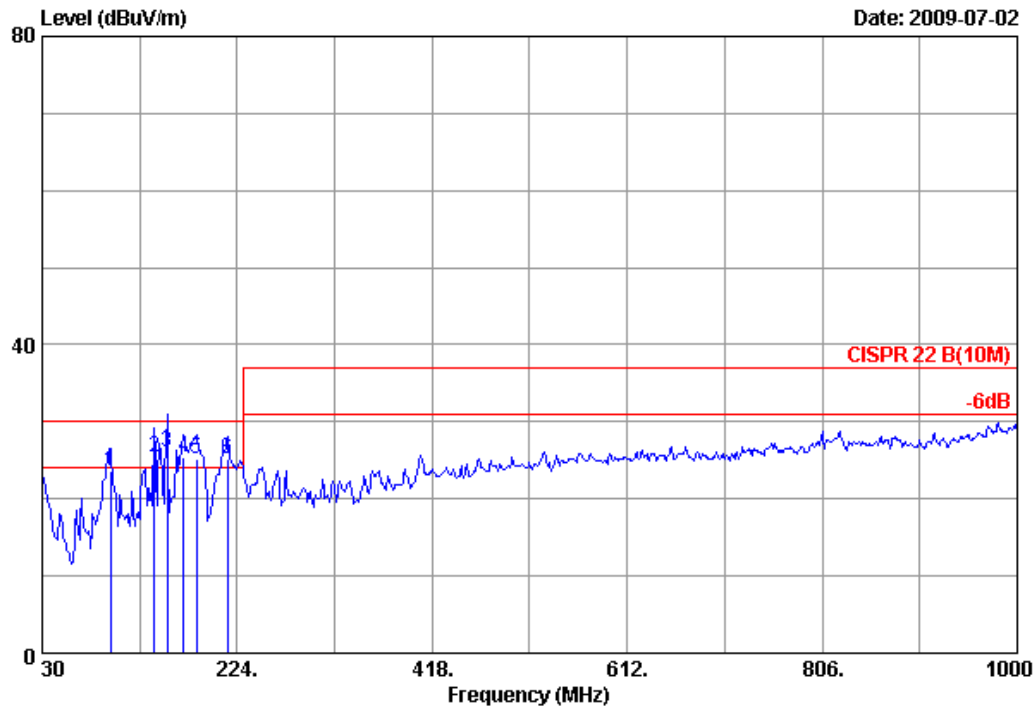
Due to the EUT's highest frequency generated and the highest frequency below 108MHz , therefore the above 1GHz frequency is no need to measurement.



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Data: 4 File: D:\2009 Report Data\B\BEHRINGER\ACS9Q866.EM6 (4)

Date: 2009-07-02



Site no. : ] Data no. : 4  
Dis. / Ant. : 10m 2009 CBL6112D 25237 Ant. pol. : HORIZONTAL  
Limit : CISPR 22 B(10M)  
Env. / Ins. : 24°C/56% Engineer : Chris  
EUT : Digital Piano M/N:CDP2400USB  
Power Rating : AC 120V/60Hz  
Test Mode : Playing and Recording

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	97.900	10.01	1.08	12.48	23.57	30.00	6.43	QP
2	141.550	10.29	1.30	13.70	25.29	30.00	4.71	QP
3	154.160	9.31	1.37	15.34	26.02	30.00	3.98	QP
4	170.650	9.57	1.46	14.32	25.35	30.00	4.65	QP
5	183.260	8.97	1.52	14.75	25.24	30.00	4.76	QP
6	214.300	8.63	1.68	14.81	25.12	30.00	4.88	QP

- Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. The emission levels that are 20dB below the official limit are not reported.  
3. The worst emission was detected at 154.16MHz with corrected signal level of 26.02dBμV/m (Limit is 30.00dBμV/m) when the antenna was at horizontal polarization and at 2.0m high and the turn table was at 145°.  
4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



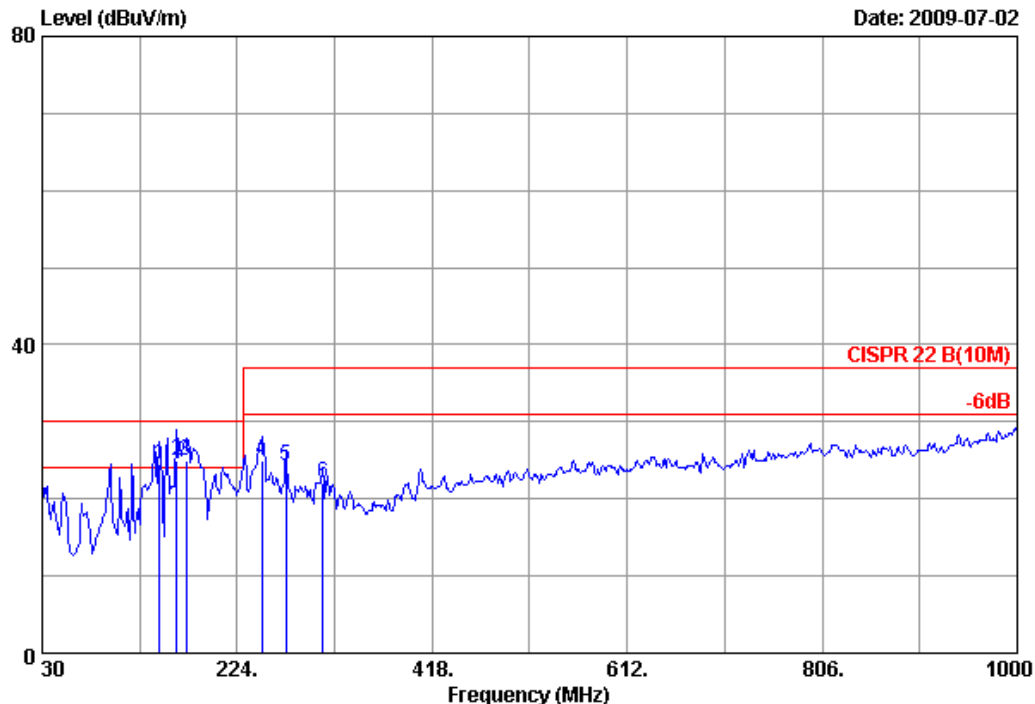


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Data: 3

File: D:\2009 Report Data\B\BEHRINGER\ACS9Q866.EM6 (4)

Date: 2009-07-02



Site no. : ] Data no. : 3  
Dis. / Ant. : 10m 2009 CBL6112D 25238 Ant. pol. : VERTICAL  
Limit : CISPR 22 B(10M)  
Env. / Ins. : 24°C/56% Engineer : Chris  
EUT : Digital Piano M/N:CDP2400USB  
Power Rating : AC 120V/60Hz  
Test Mode : Playing and Recording

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	146.400	9.39	1.81	13.31	24.51	30.00	5.49	QP
2	163.860	9.36	1.94	13.66	24.96	30.00	5.04	QP
3	173.560	9.17	2.02	13.75	24.94	30.00	5.06	QP
4	248.250	11.59	2.47	11.00	25.06	37.00	11.94	QP
5	272.500	12.58	2.62	9.20	24.40	37.00	12.60	QP
6	309.360	13.25	2.84	5.93	22.02	37.00	14.98	QP

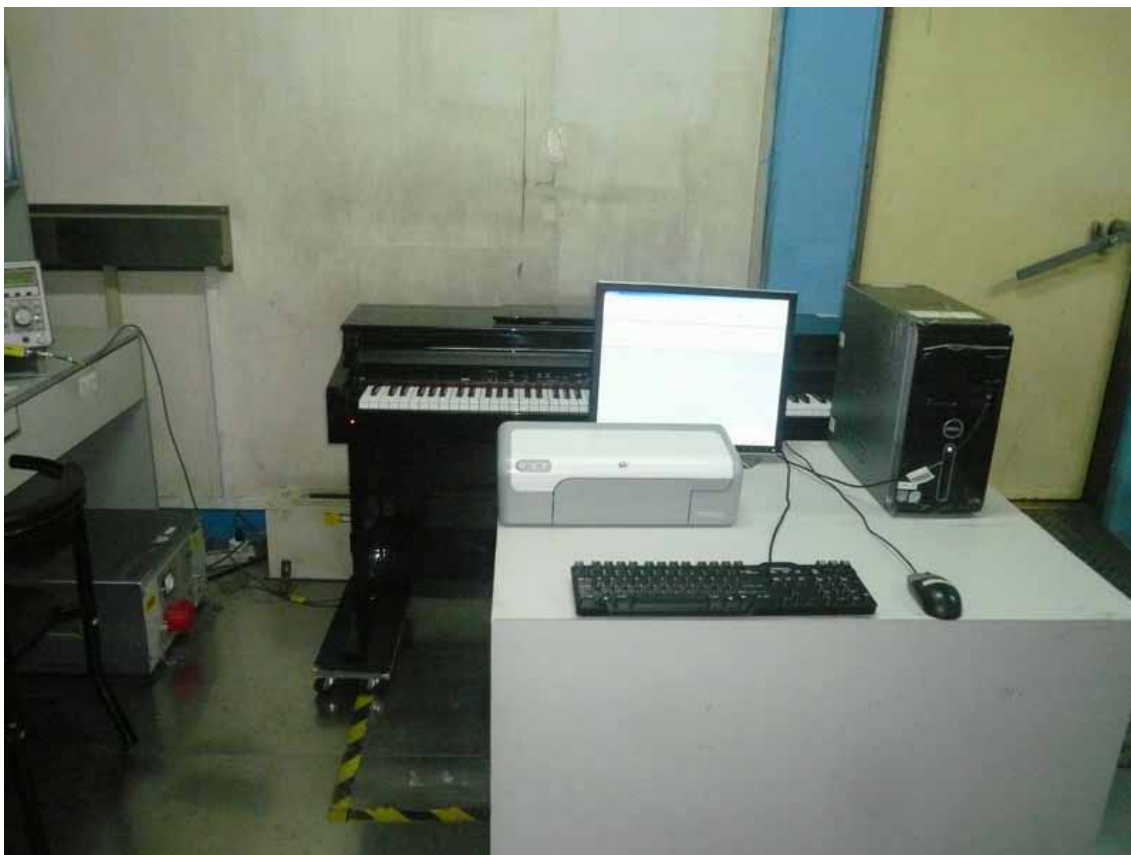
- Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. The emission levels that are 20dB below the official limit are not reported.  
3. The worst emission was detected at 163.86MHz with corrected signal level of 24.96dBμV/m (Limit is 30.00dBμV/m) when the antenna was at vertical polarization and at 1.0m high and the turn table was at 310°.  
4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

## **5. DEVIATION TO TEST SPECIFICATIONS**

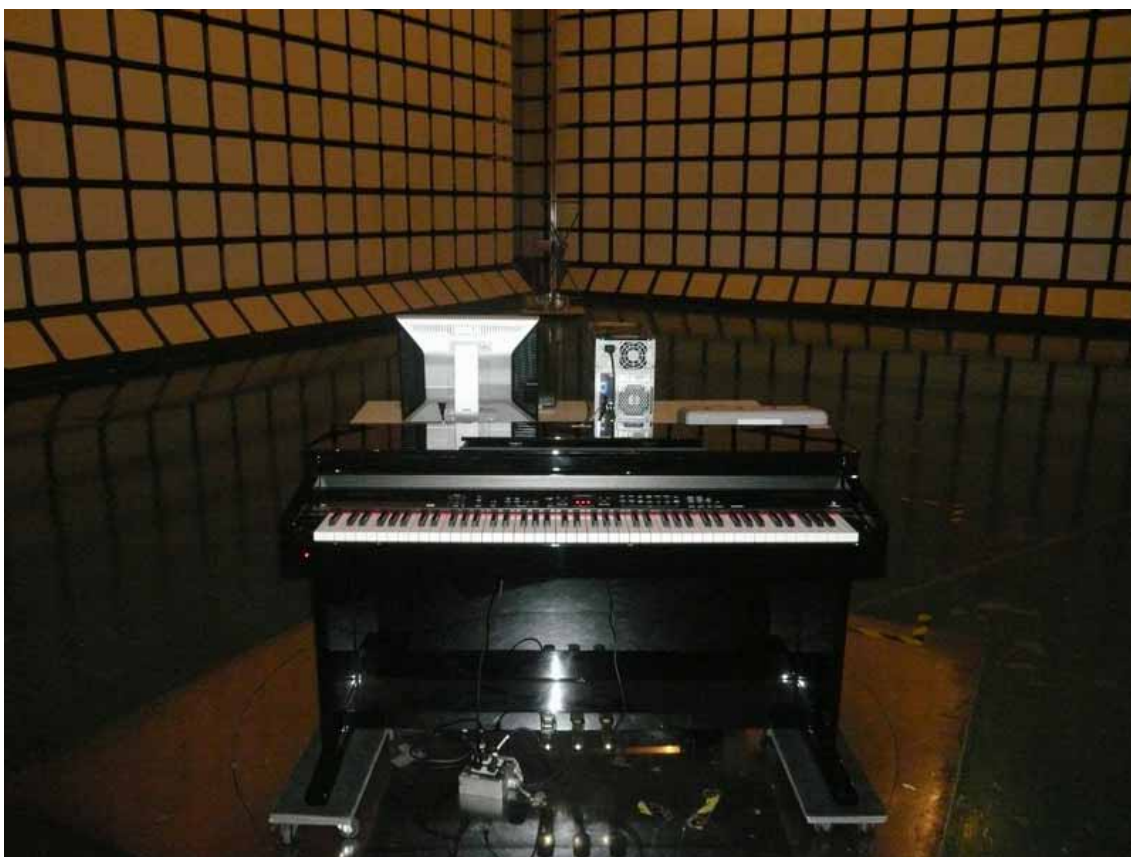
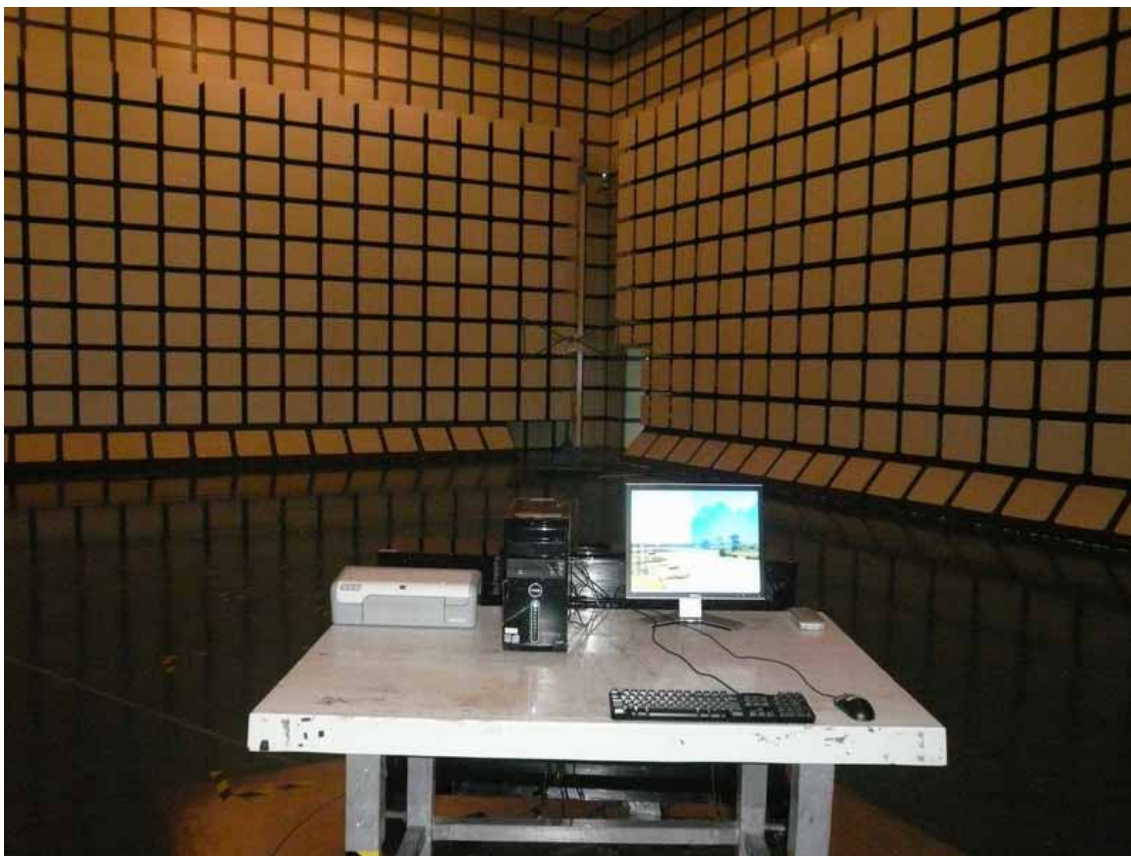
[ NONE]

## 6. PHOTOGRAPH

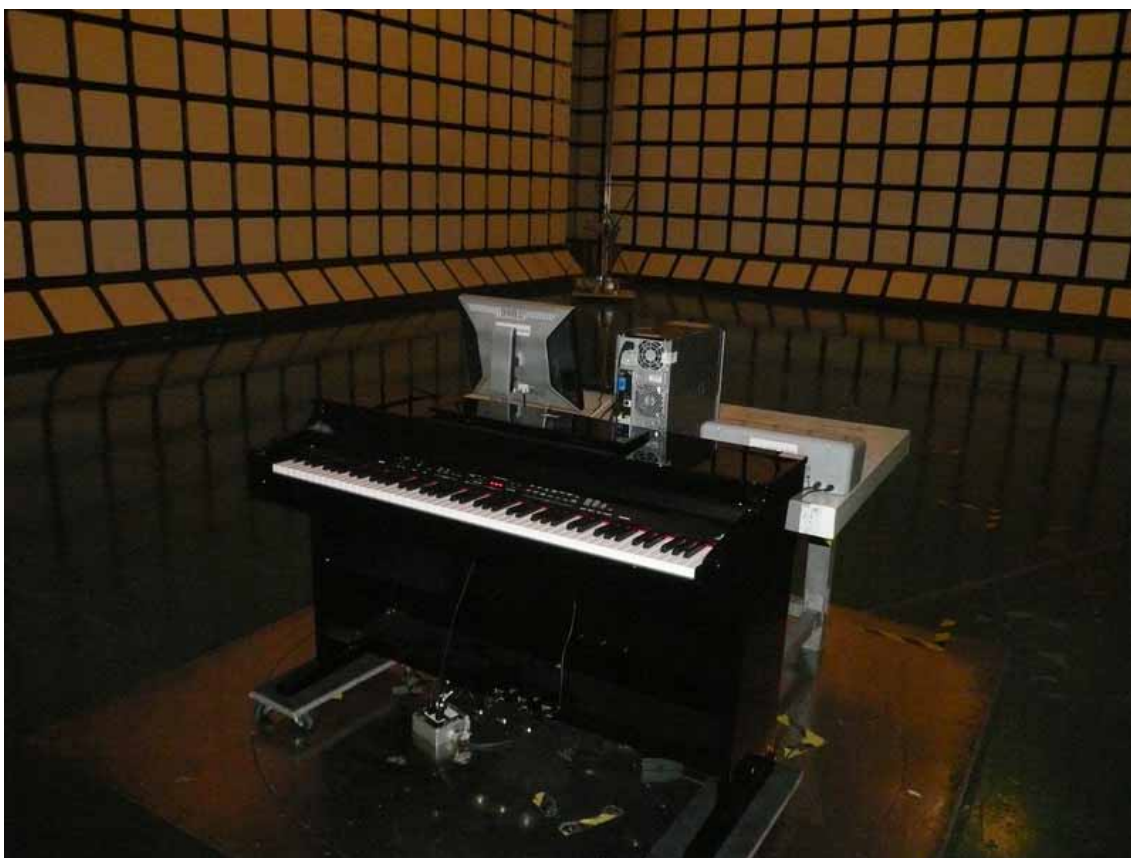
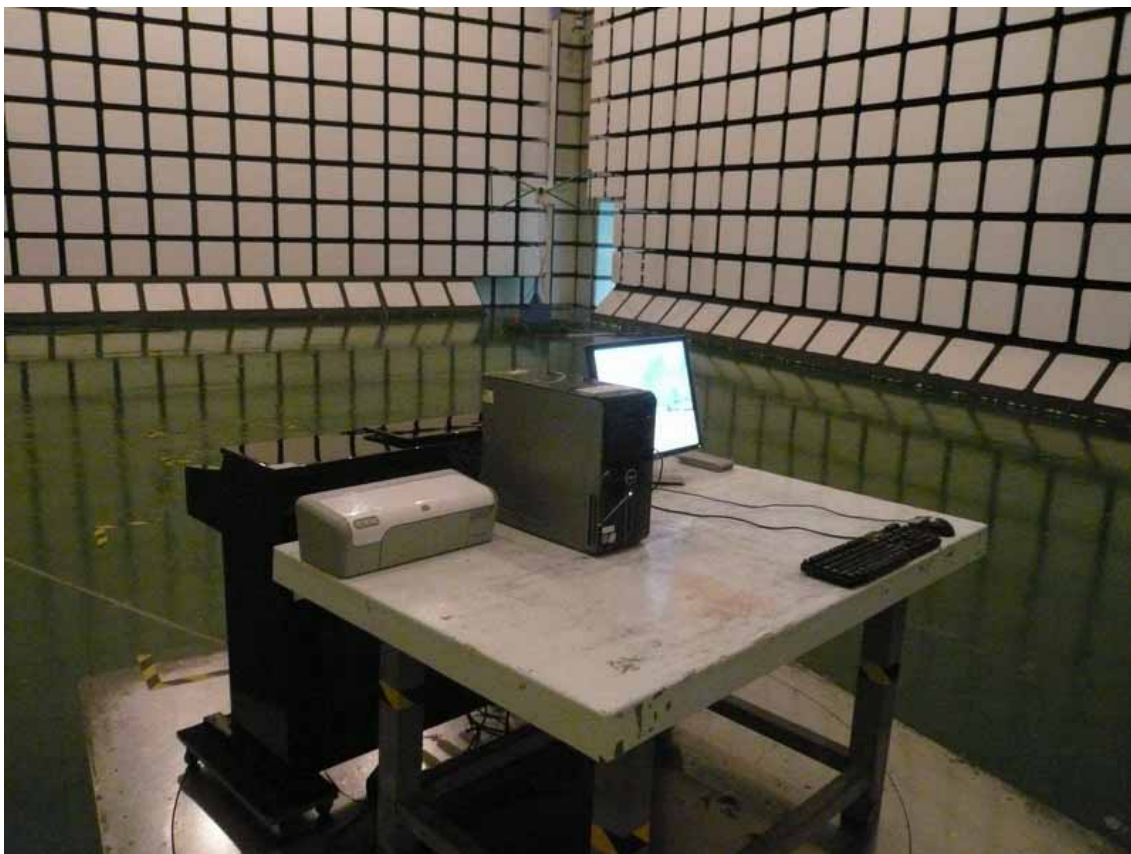
### 6.1.Photos of Power Line Conducted Emission Test



## 6.2.Photos of Radiated Emission Test (In Anechoic Chamber)







## 7. PHOTOS OF THE EUT

**Figure 1**  
General Appearance of the EUT



**Figure 2**  
General Appearance of the EUT





**Figure 3**  
General Appearance of the EUT



**Figure 4**  
General Appearance of the EUT



**Figure 5**  
General Appearance of the EUT



**Figure 6**  
General Appearance of the EUT

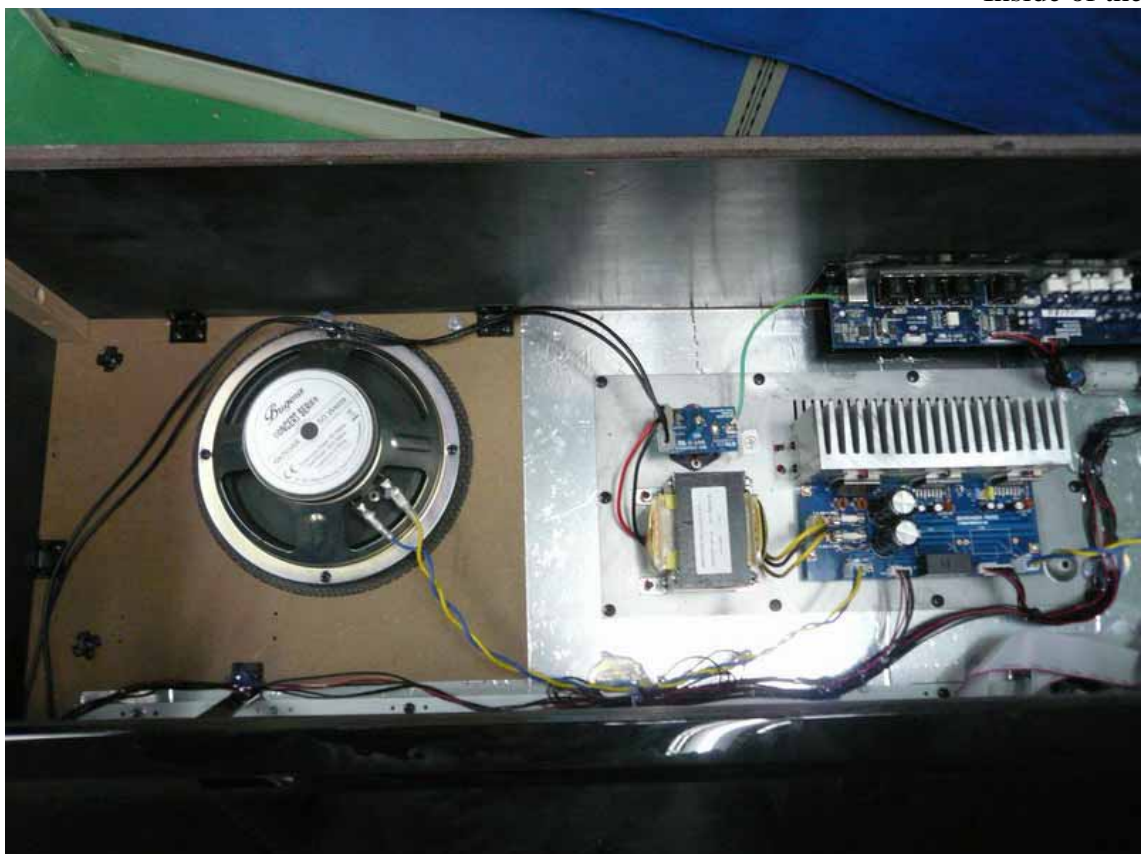




**Figure 7**  
General Appearance of the EUT



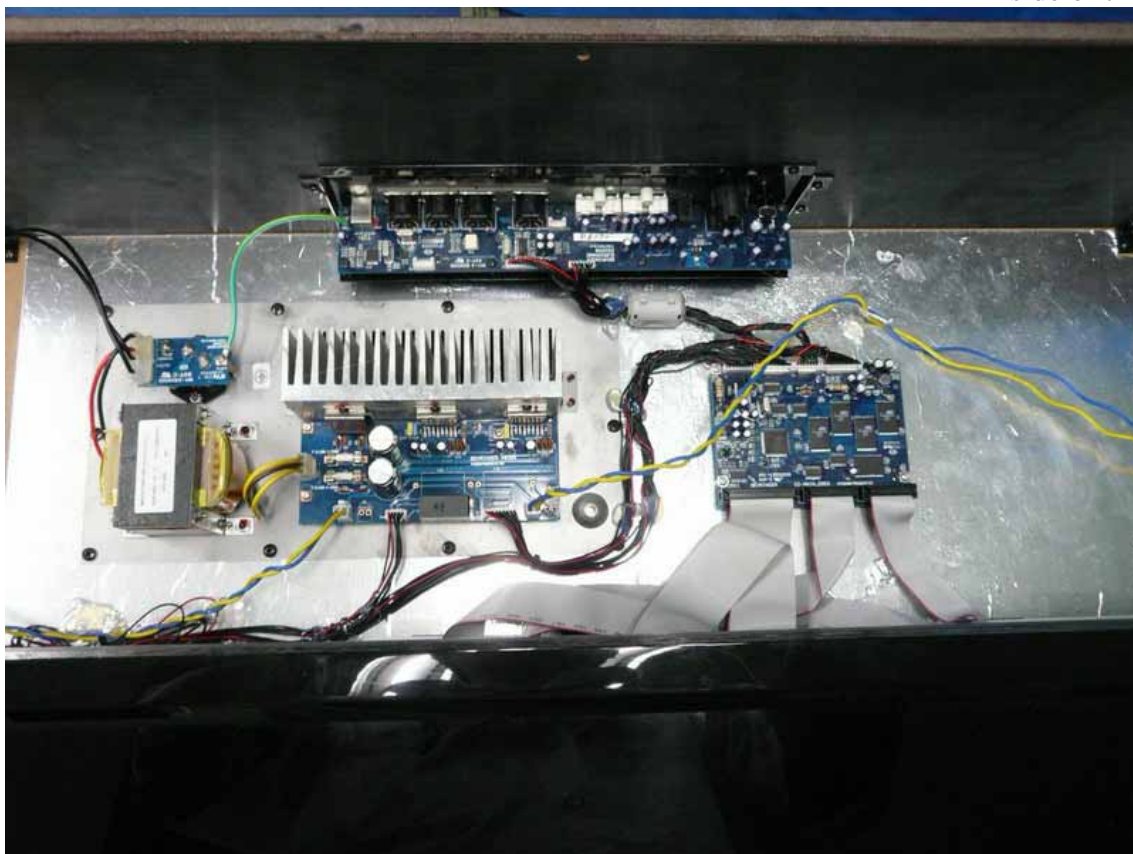
**Figure 8**  
Inside of the EUT



**Figure 9**  
Inside of the EUT

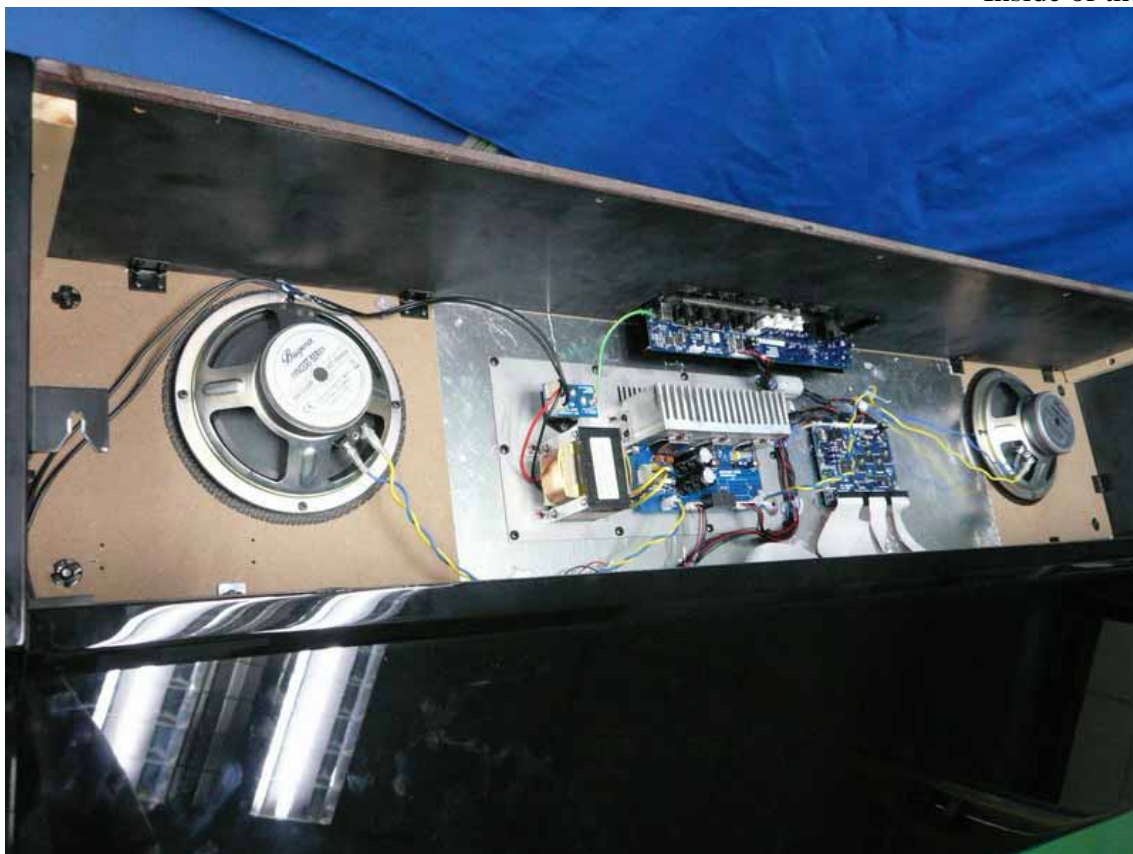


**Figure 10**  
Inside of the EUT





**Figure 11**  
Inside of the EUT



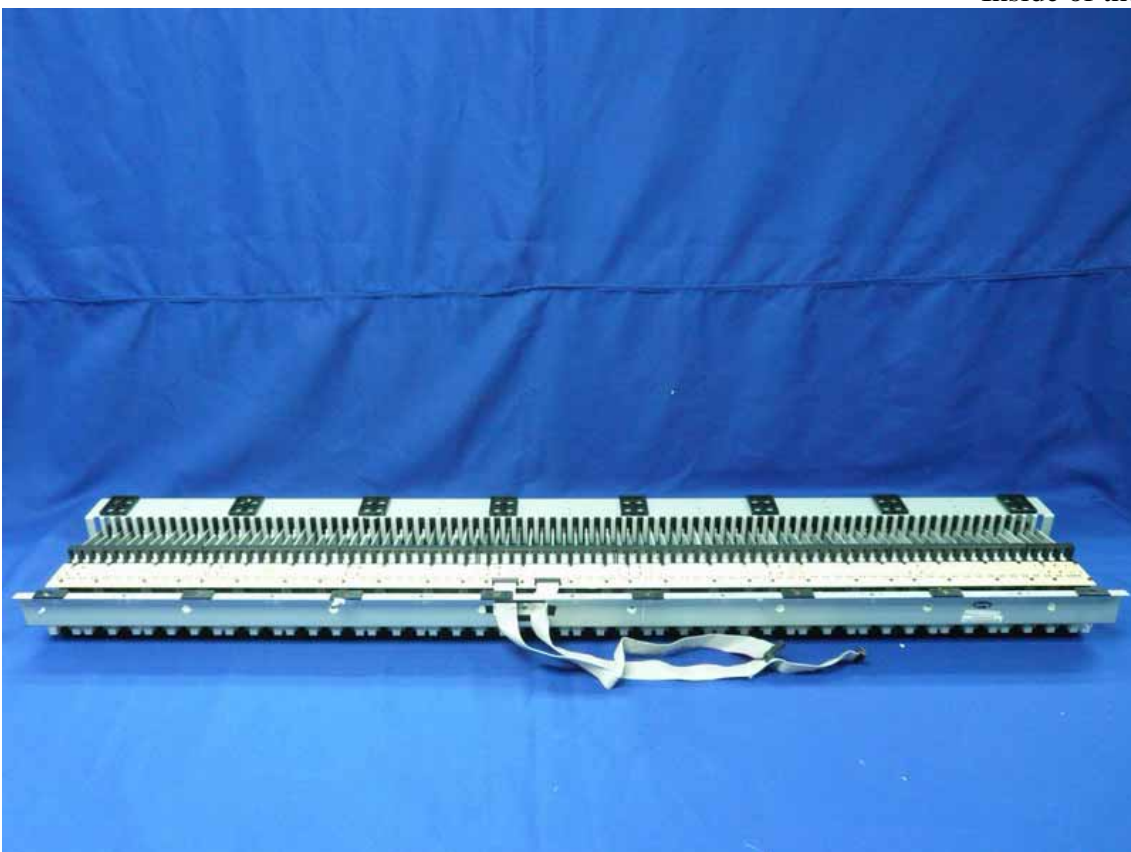
**Figure 12**  
Inside of the EUT



**Figure 13**  
Inside of the EUT



**Figure 14**  
Inside of the EUT



**Figure 15**  
Inside of the EUT

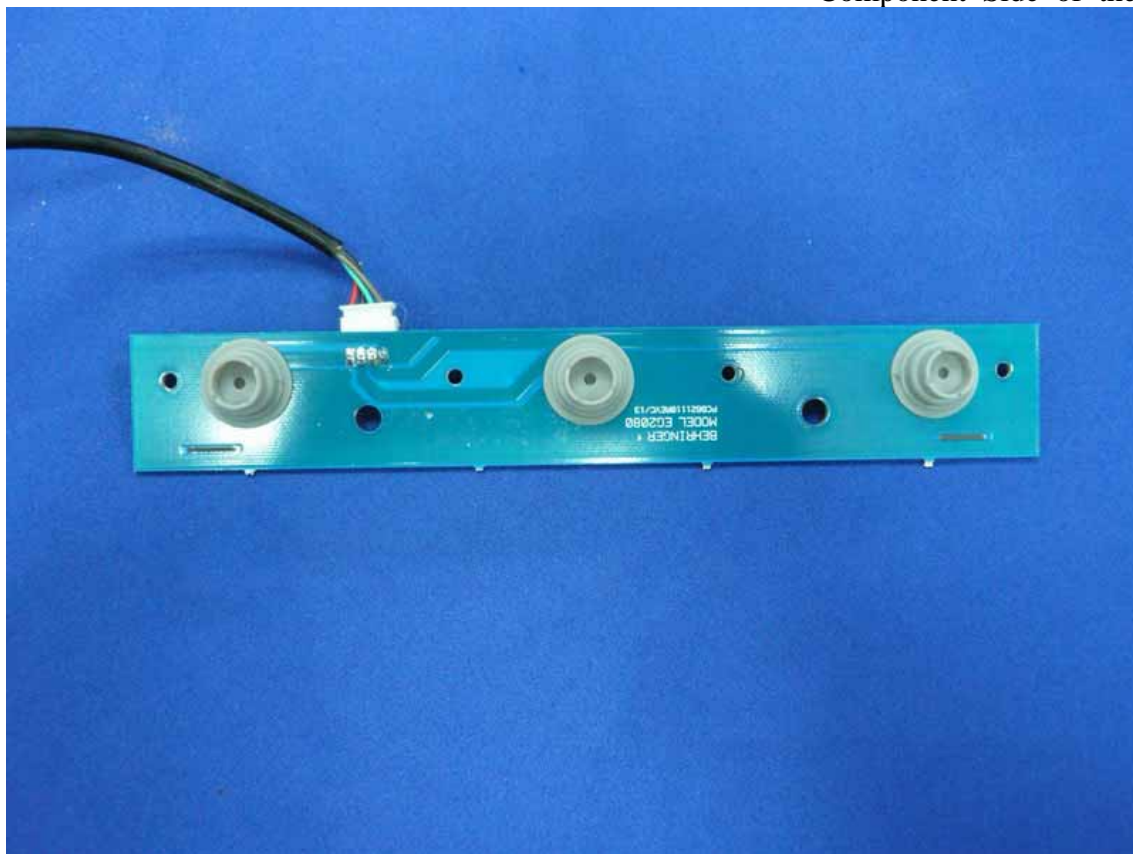


**Figure 16**  
Speaker of the EUT

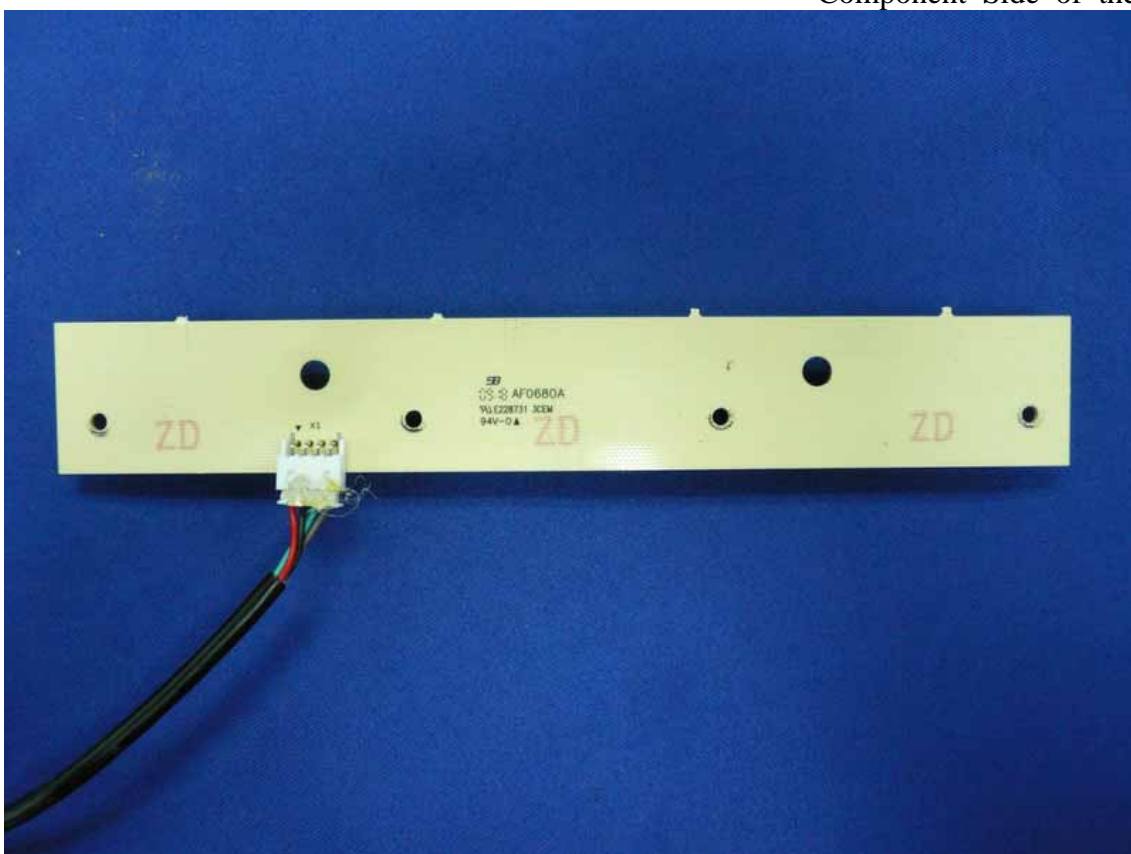




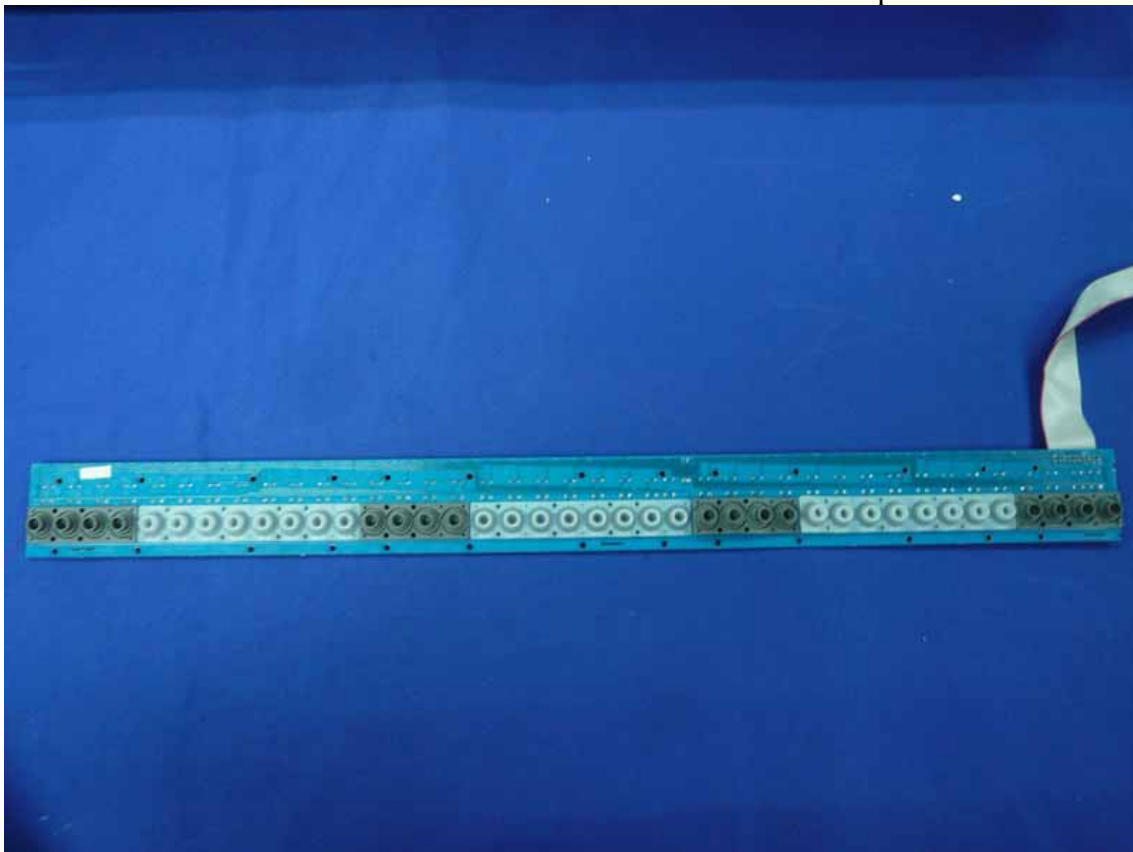
**Figure 17**  
Component Side of the PCB



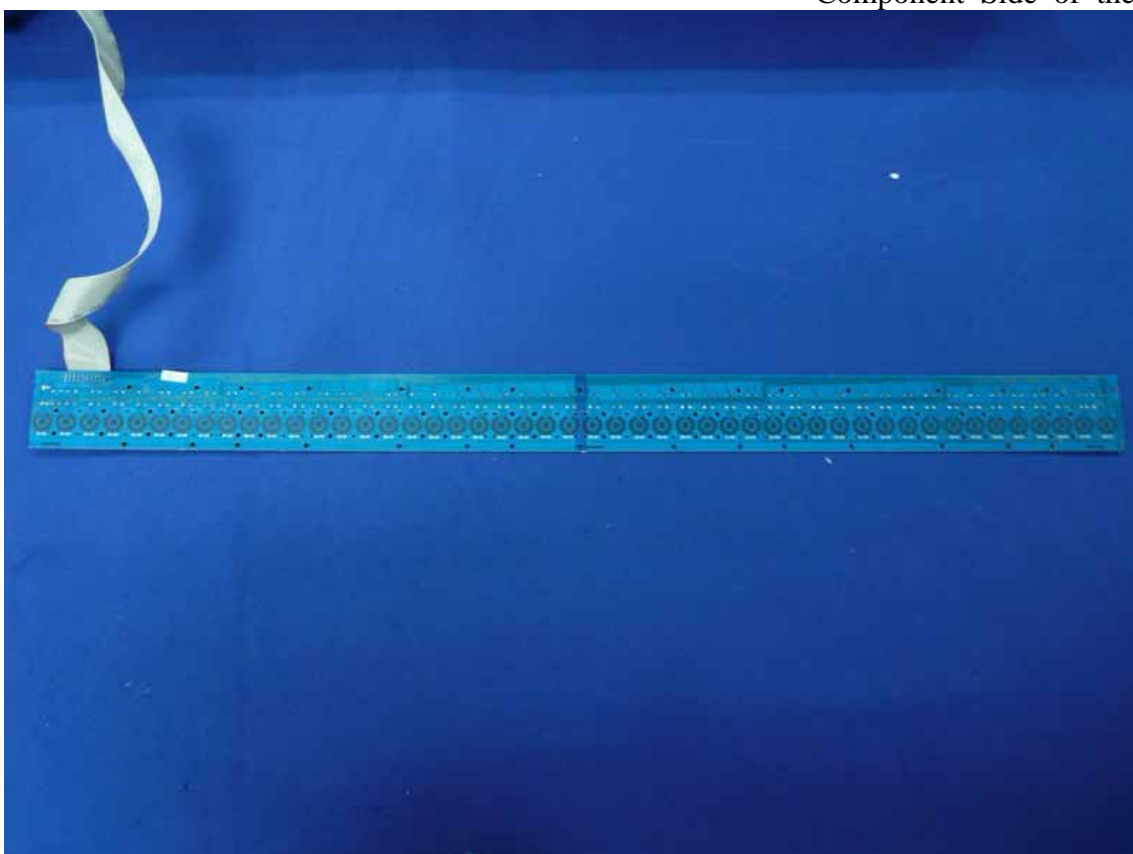
**Figure 18**  
Component Side of the PCB



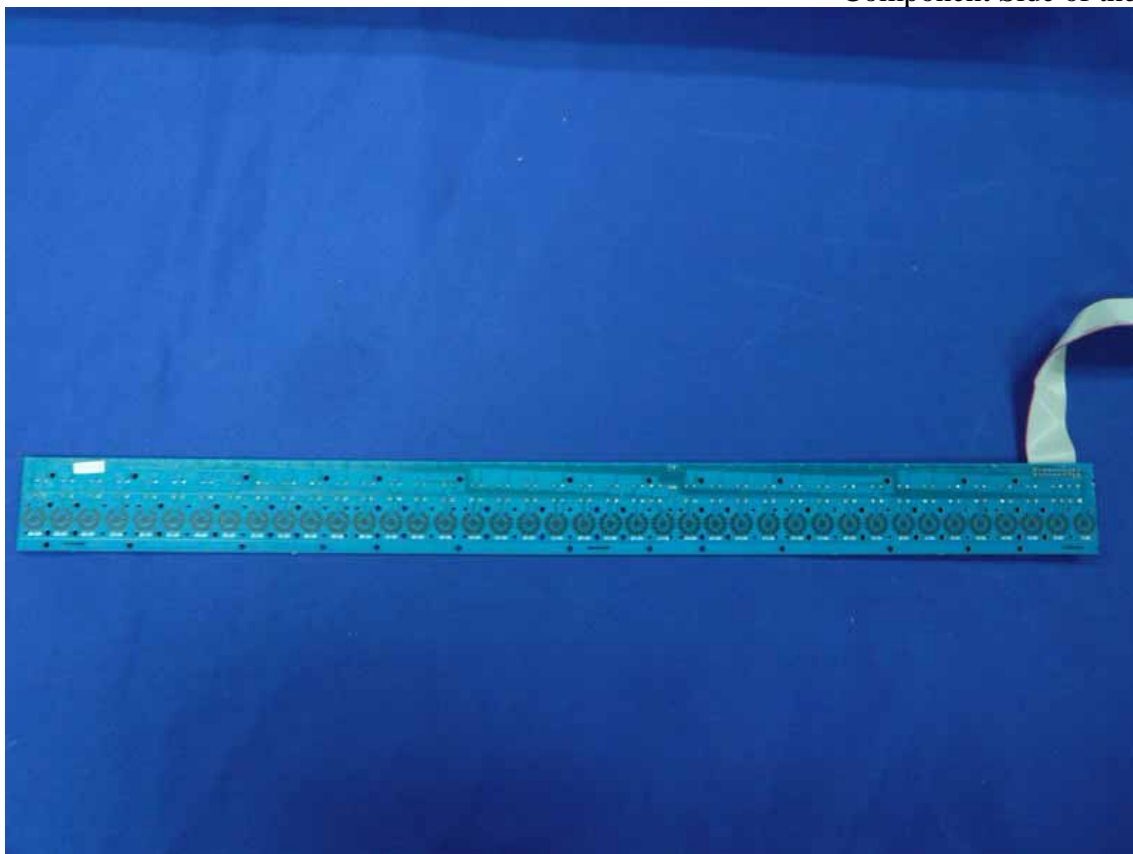
**Figure 19**  
Component Side of the PCB



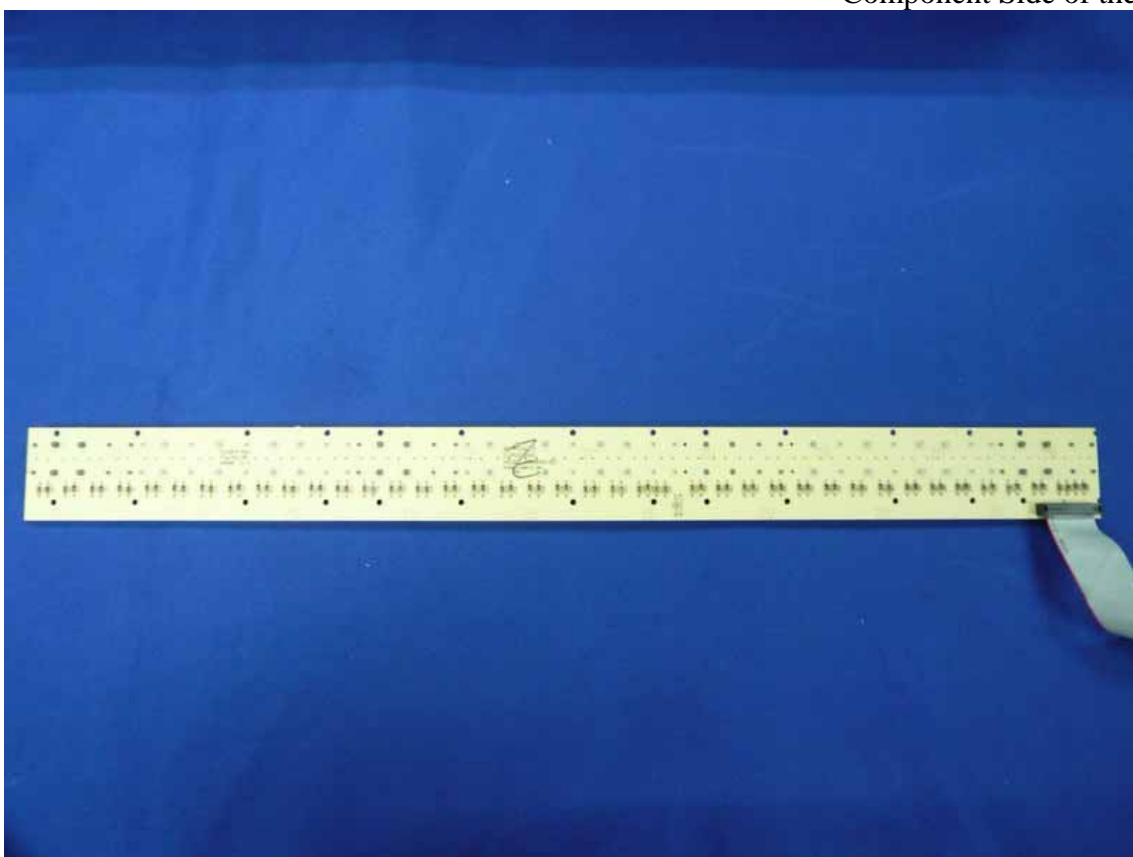
**Figure 20**  
Component Side of the PCB



**Figure 21**  
Component Side of the PCB

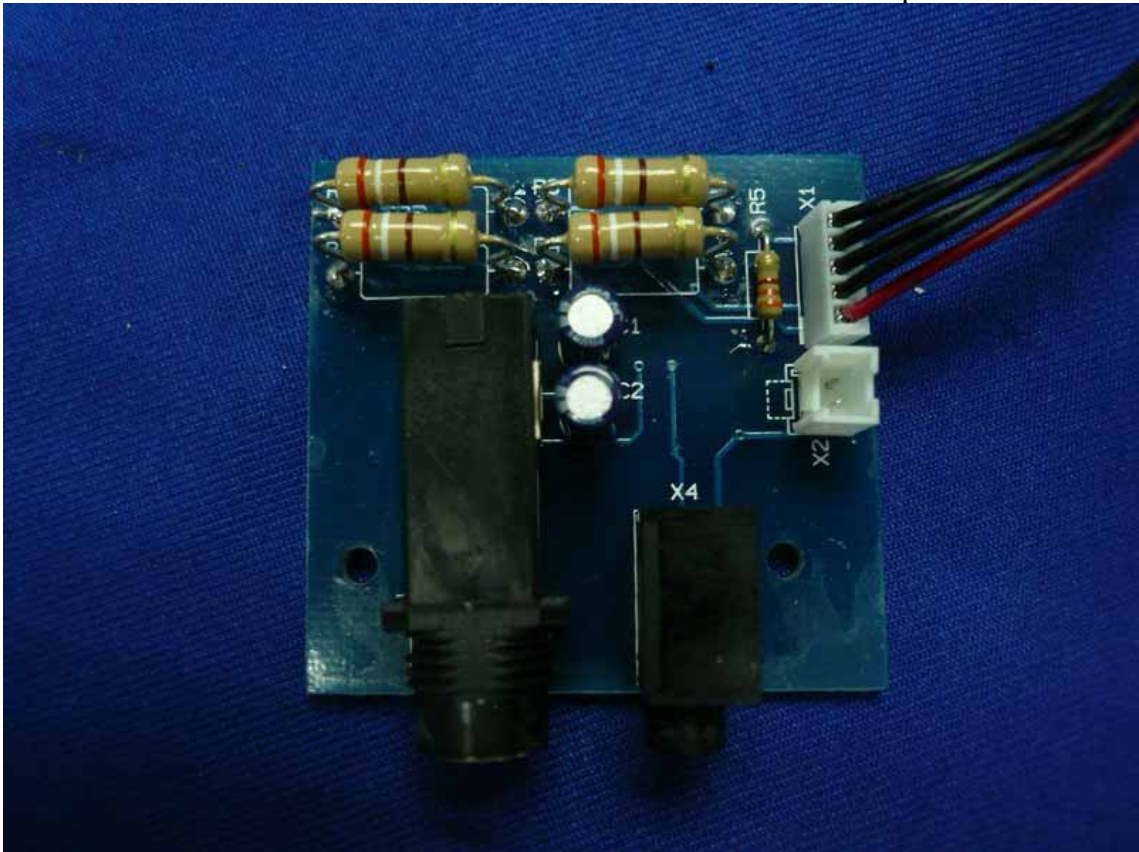


**Figure 22**  
Component Side of the PCB

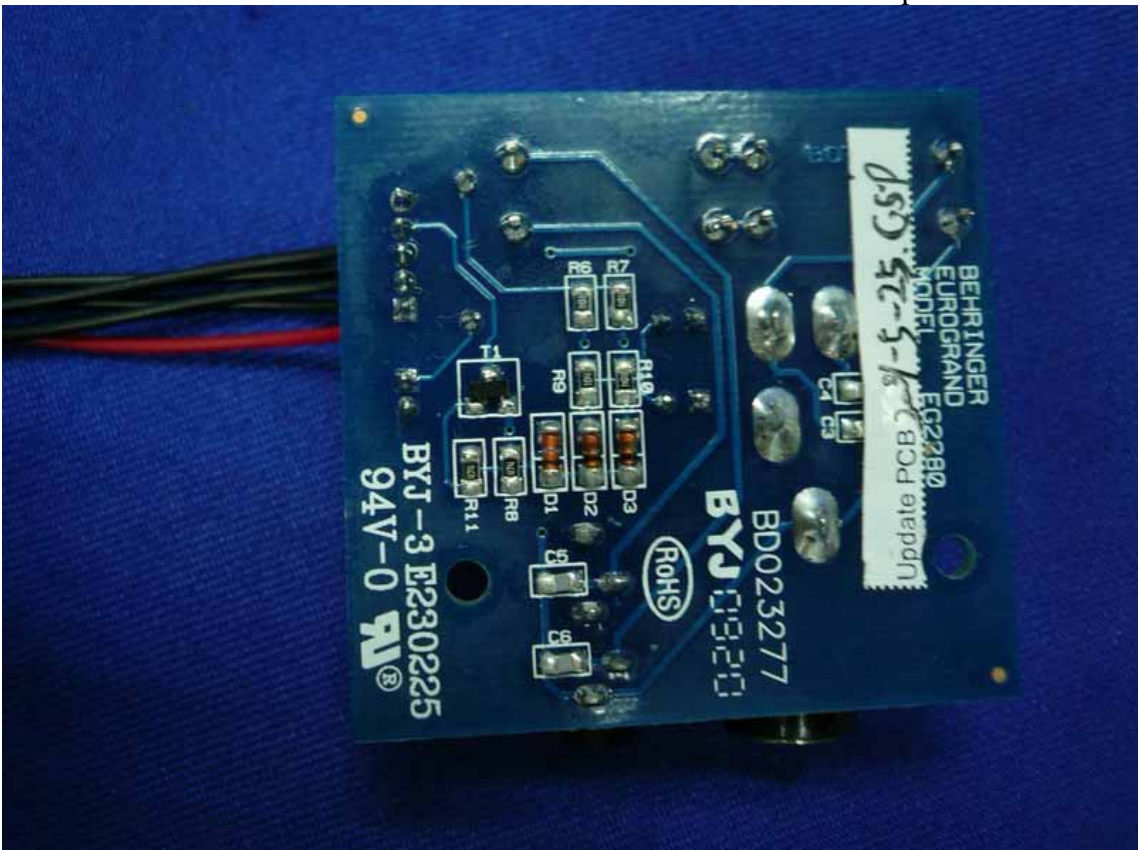




**Figure 23**  
Component Side of the PCB



**Figure 24**  
Component Side of the PCB



**Figure 25**  
Component Side of the PCB



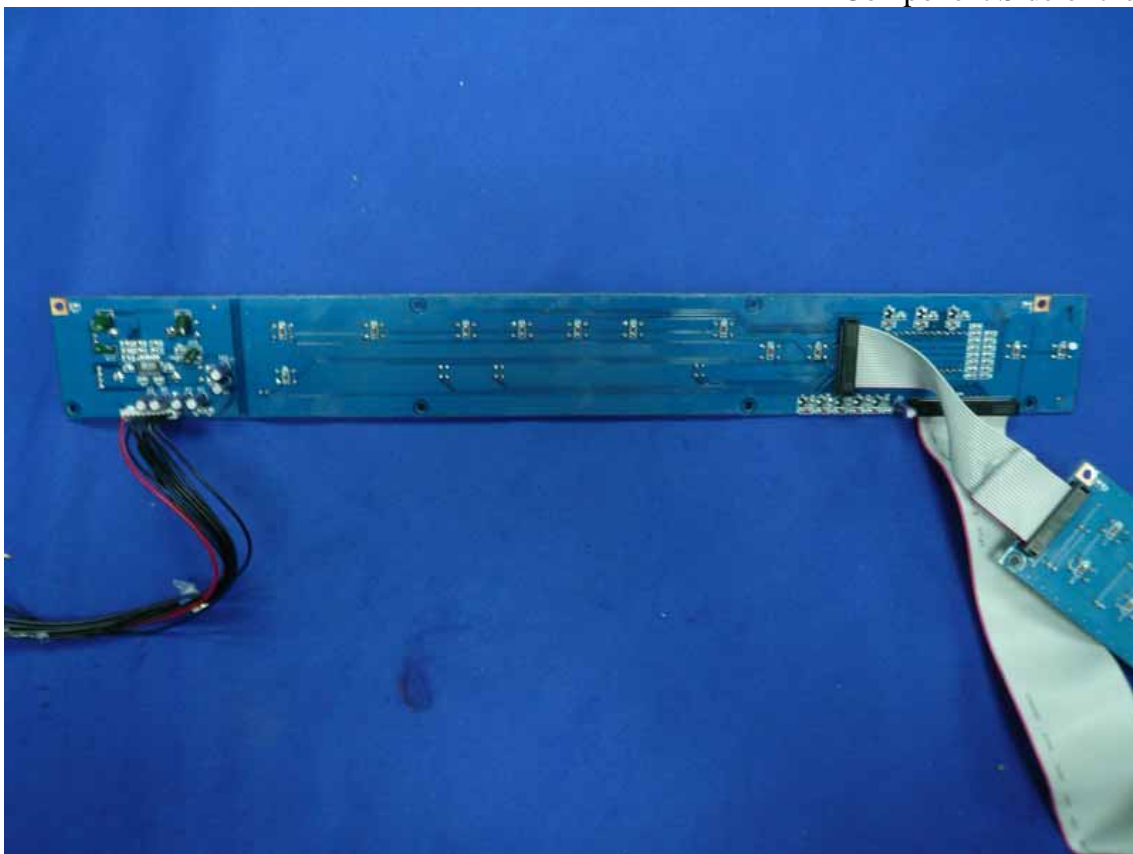
**Figure 26**  
Component Side of the PCB



**Figure 27**  
Component Side of the PCB

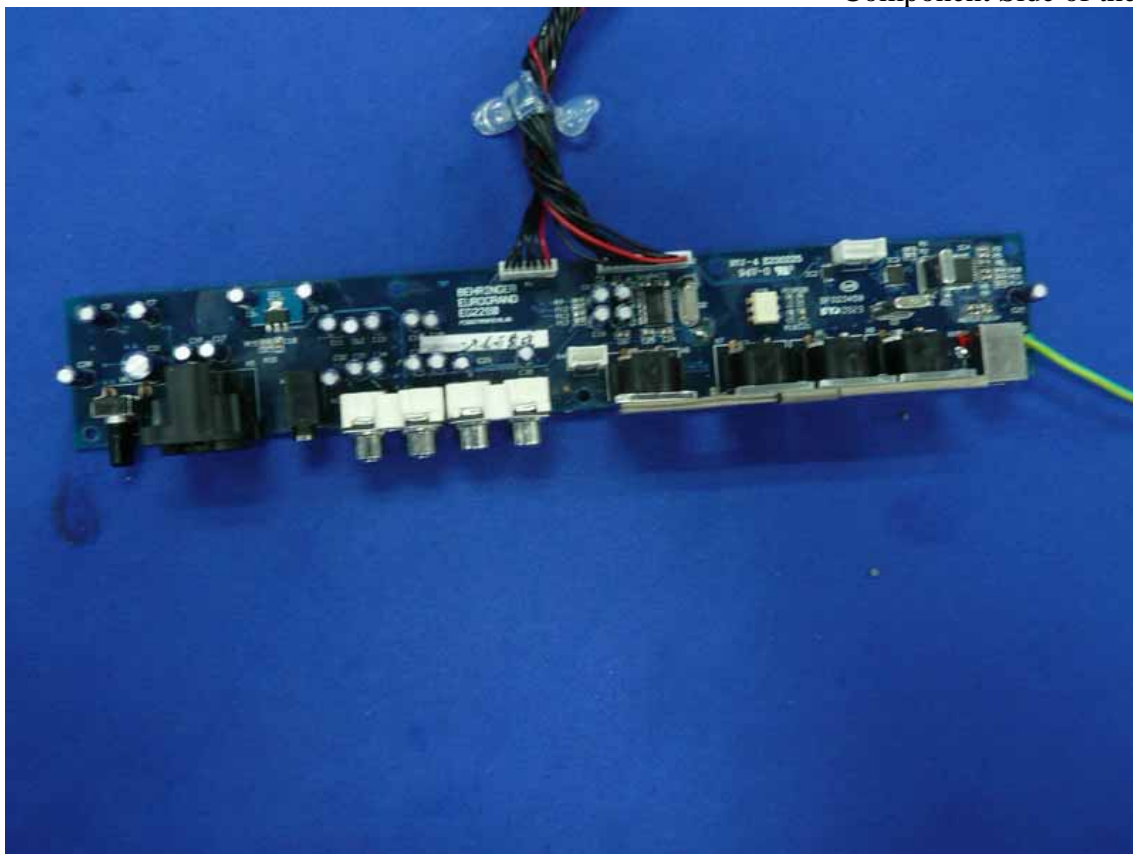


**Figure 28**  
Component Side of the PCB

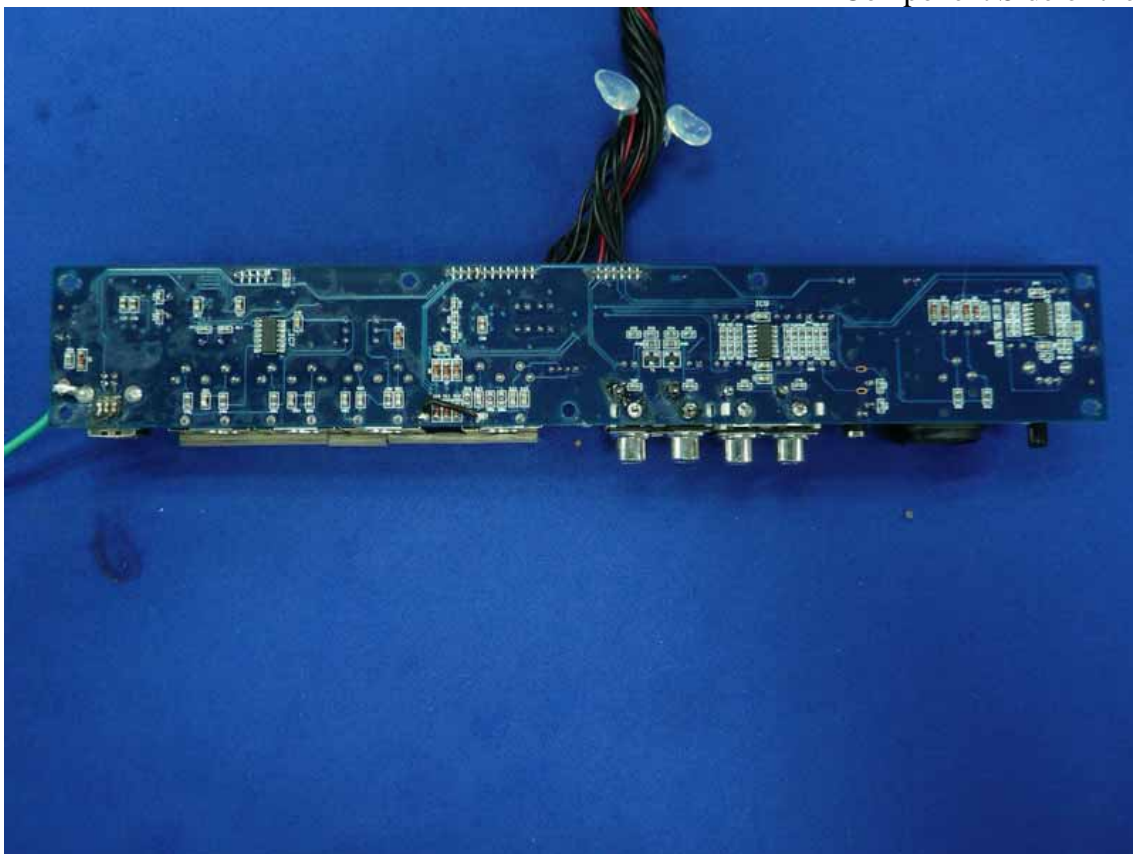




**Figure 29**  
Component Side of the PCB



**Figure 30**  
Component Side of the PCB



**Figure 31**  
Component Side of the PCB

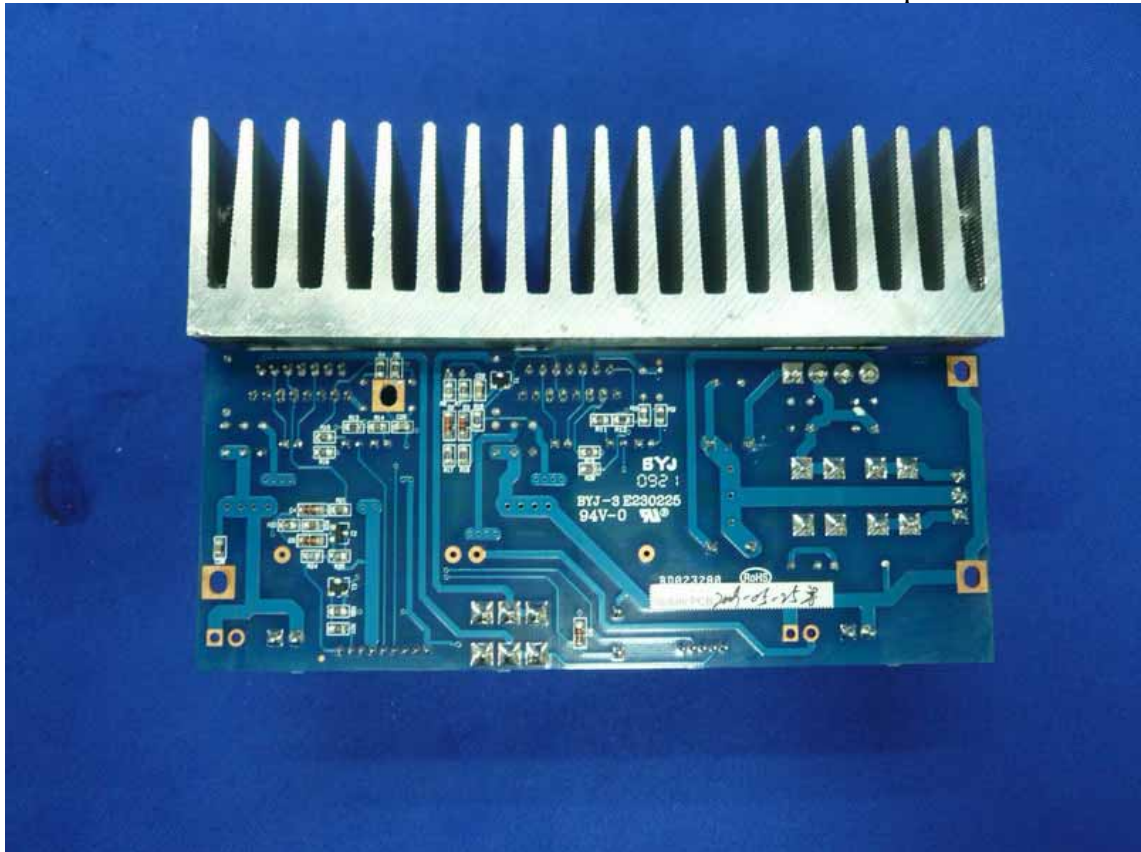


**Figure 32**  
Component Side of the PCB

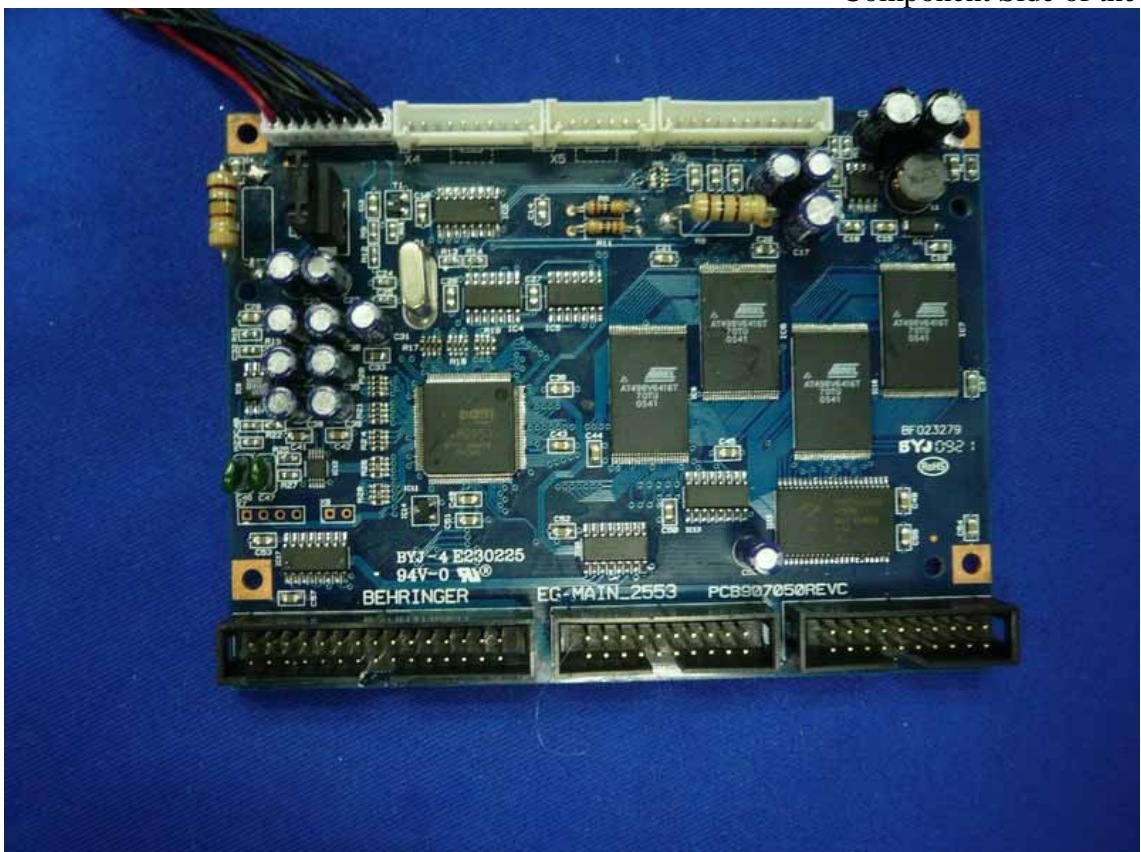




**Figure 33**  
Component Side of the PCB



**Figure 34**  
Component Side of the PCB



**Figure 35**  
Component Side of the PCB

