



**卓時檢測**  
TIMEWAY TESTING LABORATORY



**ISO/IEC17025 Accredited Lab.**

Report No: FCC 0910015

File reference No: 2009-10-12

Applicant: WIN ACCORD LTD.

Product: Brookstone 10.4 inch Fighter

Brand Name: Brookstone

Model No: 634592

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

Terry Tang

Manager

Dated: October 12, 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



### **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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Test Report Conclusion  
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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: WIN ACCORD LTD.  
Address: 12F, NO.225, SEC 5, 105 SONG SHAN DIST., NAN JING EAST ROAD, TAIPEI. TAIWAN  
Telephone: 02-2749-3837  
Fax: 02-2749-3918

**1.3 Description of EUT**

Product: Brookstone 10.4 inch Fighter  
Manufacturer: WIN ACCORD LTD.  
Address: 12F, NO.225, SEC 5, 105 SONG SHAN DIST., NAN JING EAST ROAD, TAIPEI. TAIWAN  
Brand Name: Brookstone  
Model Number: 634592  
Additional Model Number: --  
Remark: --  
Rating: Input: 12V, 1.5A

**1.4 Submitted Sample(s): 1 Sample**

**1.5 Test Duration: 2009-10-09 to 2009-10-12**

**1.6 Test Uncertainty**

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

**1.7 Test Engineer**

The sample tested by

A handwritten signature in black ink that reads 'Henry Ding'. The signature is written in a cursive style.

Print Name: Henry Ding



## 2.0 List of Measurement Equipment

### 2.1 Conducted Emission Test

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

### 2.2 Radiated electromagnetic disturbance test

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

### 2.3 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Cable	FCC ID/DOC
Keyboard	KB-0225	1211815	IBM	Data cable of 2m length unshielded	FCC DOC
Printer	LaserJet 1015	CNFG029476	HP	Data cable of 2m length unshielded and 1.8m length AC Mains cable	DOC
Printer	LaserJet 1022	CNBG591GM7	HP	Data cable of 2m length unshielded and 1.8m length AC Mains cable	DOC
Monitor	FP51G	ET47604175CLO	BENQ	Data cable of	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**

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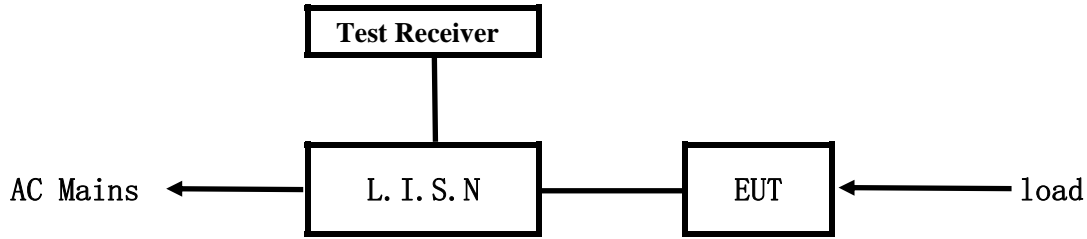
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#### 4.0 Conducted Power line Test

##### 4.1 Schematics of the test



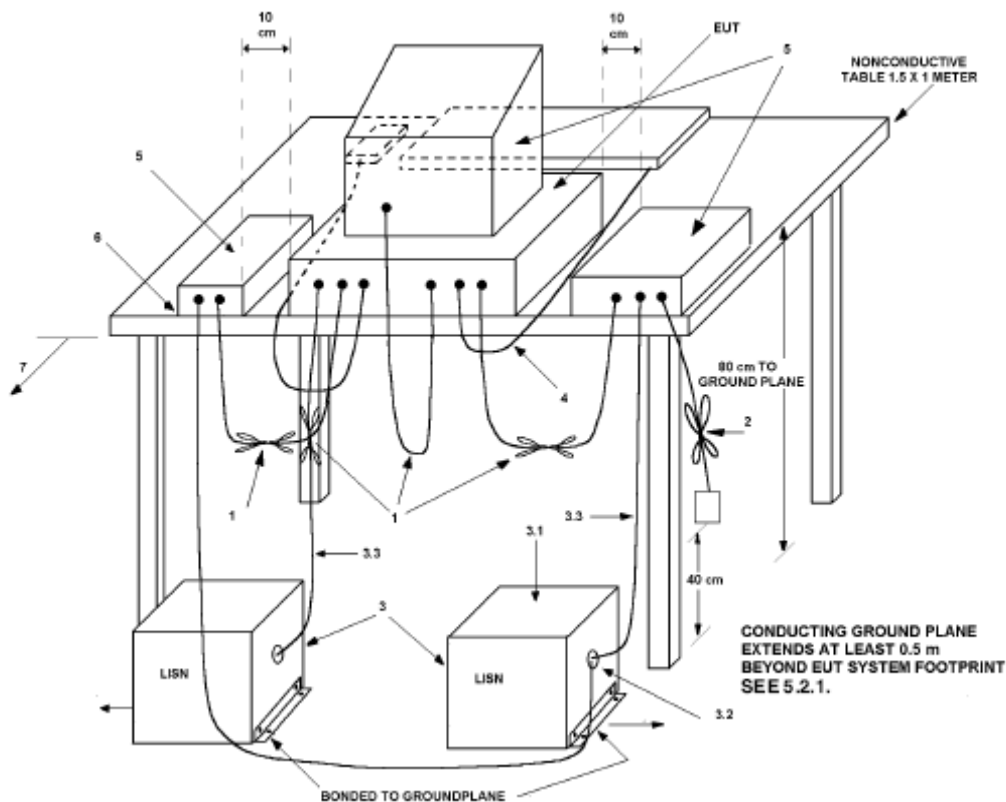
EUT: Equipment Under Test

##### 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

Frequency(MHz)	Class A Limits dB( $\mu$ V)		Class B Limits dB( $\mu$ V)	
	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 ~ 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**

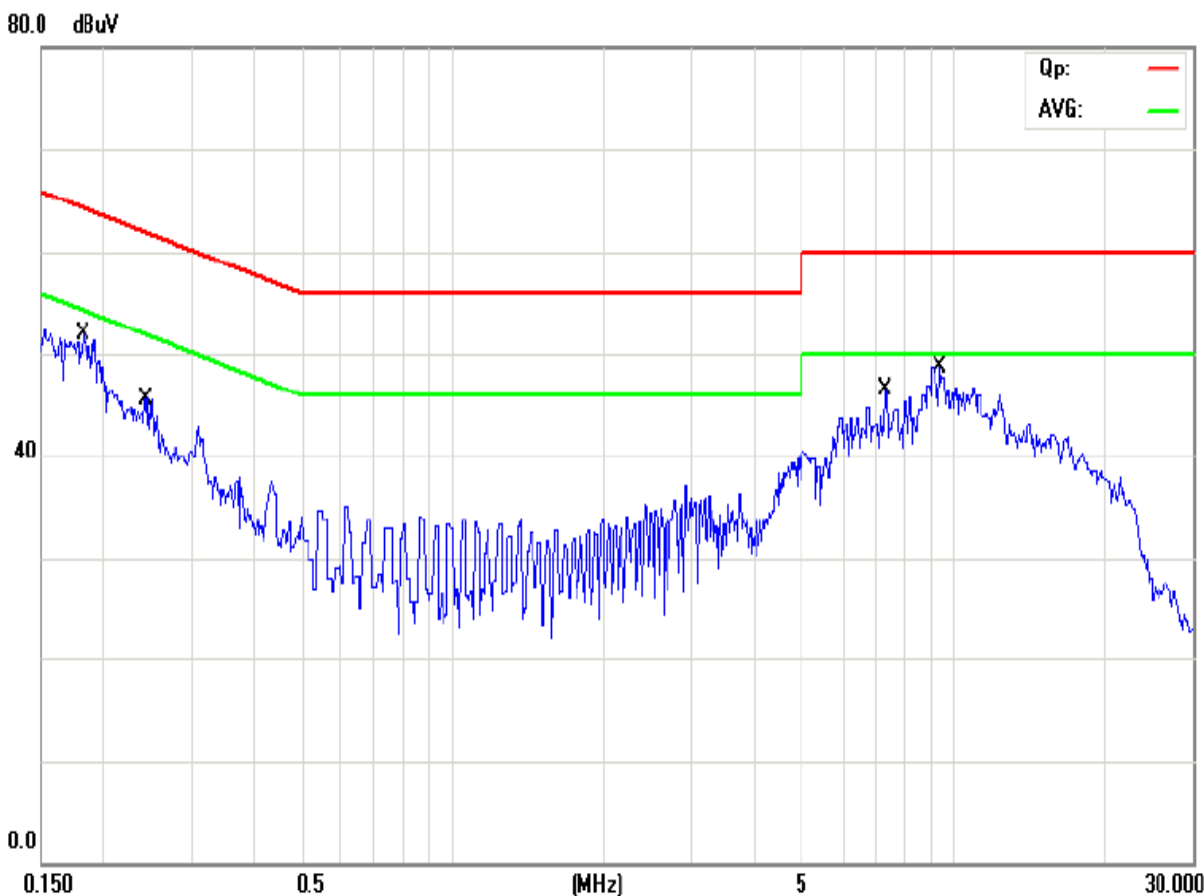
Temperature: 23°C Humidity:70%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Memory**

**Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dBµV)		Limit(dBµV)	
		Quasi-peak	Average	Quasi-peak	Average
0.183	Live	53.08	31.87	64.33	54.33
0.241	Live	44.73	23.14	62.05	52.05
9.256	Live	45.97	33.68	60.00	50.00
7.336	Live	45.40	31.24	60.00	50.00

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

**EUT Operating Environment**

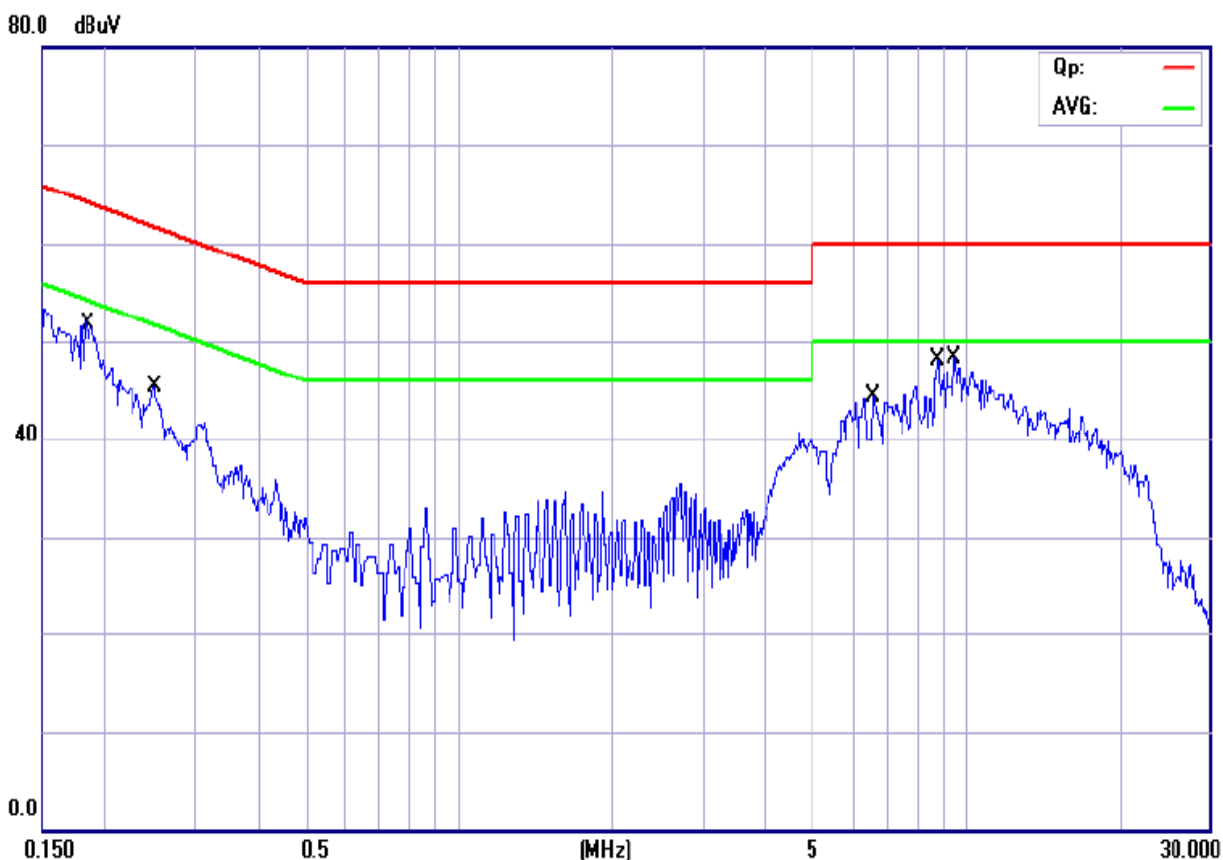
Temperature: 23°C Humidity:70%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Memory**

**Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dBµV)		Limit(dBµV)	
		Quasi-peak	Average	Quasi-peak	Average
0.184	Neutral	52.35	33.10	64.28	54.28
0.247	Neutral	46.20	31.68	61.86	51.86
6.582	Neutral	43.39	40.27	60.00	50.00
9.516	Neutral	48.58	42.34	60.00	50.00
8.827	Neutral	48.75	41.95	60.00	50.00

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

**EUT Operating Environment**

Temperature: 23°C Humidity:70%RH Atmospheric Pressure: 101 KPa

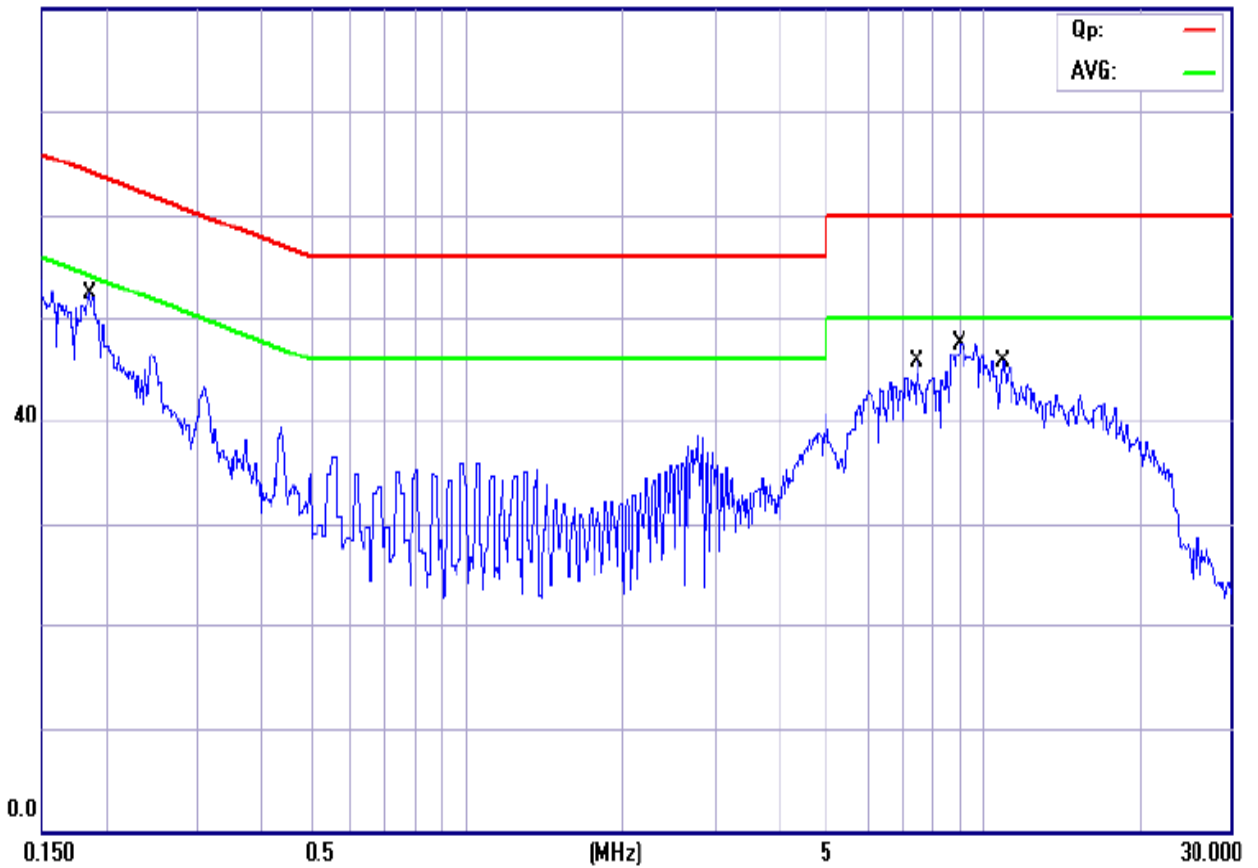
**EUT set Condition: Play SD**

**Level: Class B**

**Results: Pass**

Please refer to following diagram for individual

80.0 dBμV



Frequency (MHz)	Line	Reading(dBμV)		Limit(dBμV)	
		Quasi-peak	Average	Quasi-peak	Average
0.183	Live	46.54	35.74	64.33	54.33
7.318	Live	38.73	27.23	60.00	50.00
9.063	Live	42.39	31.09	60.00	50.00
10.927	Live	40.28	28.08	60.00	50.00

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

**EUT Operating Environment**

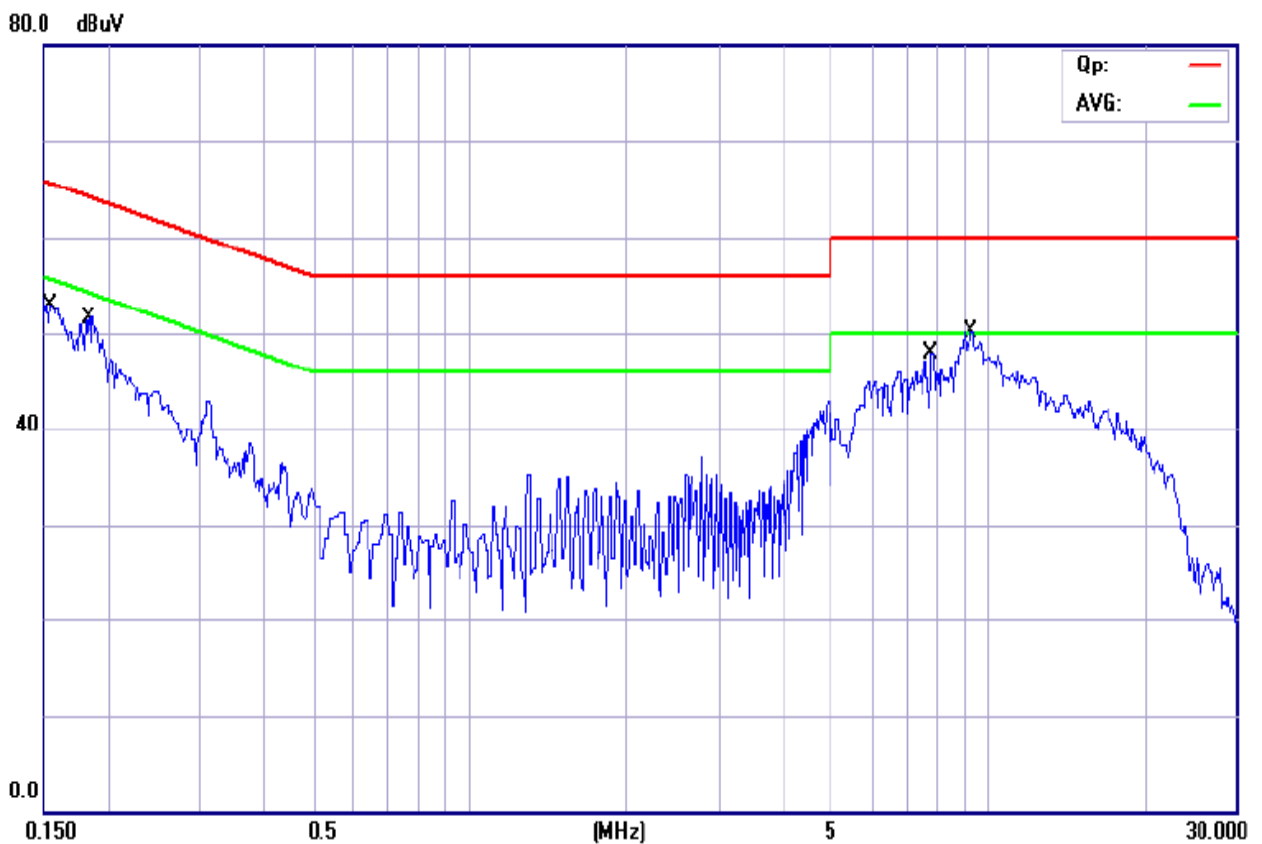
Temperature: 23°C Humidity:70%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Play SD**

**Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dBμV)		Limit(dBμV)	
		Quasi-peak	Average	Quasi-peak	Average
0.155	Neutral	53.22	47.17	65.72	55.72
0.182	Neutral	52.34	48.02	64.39	54.39
7.828	Neutral	44.27	31.72	60.00	50.00
9.199	Neutral	47.83	41.41	60.00	50.00

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

**EUT Operating Environment**

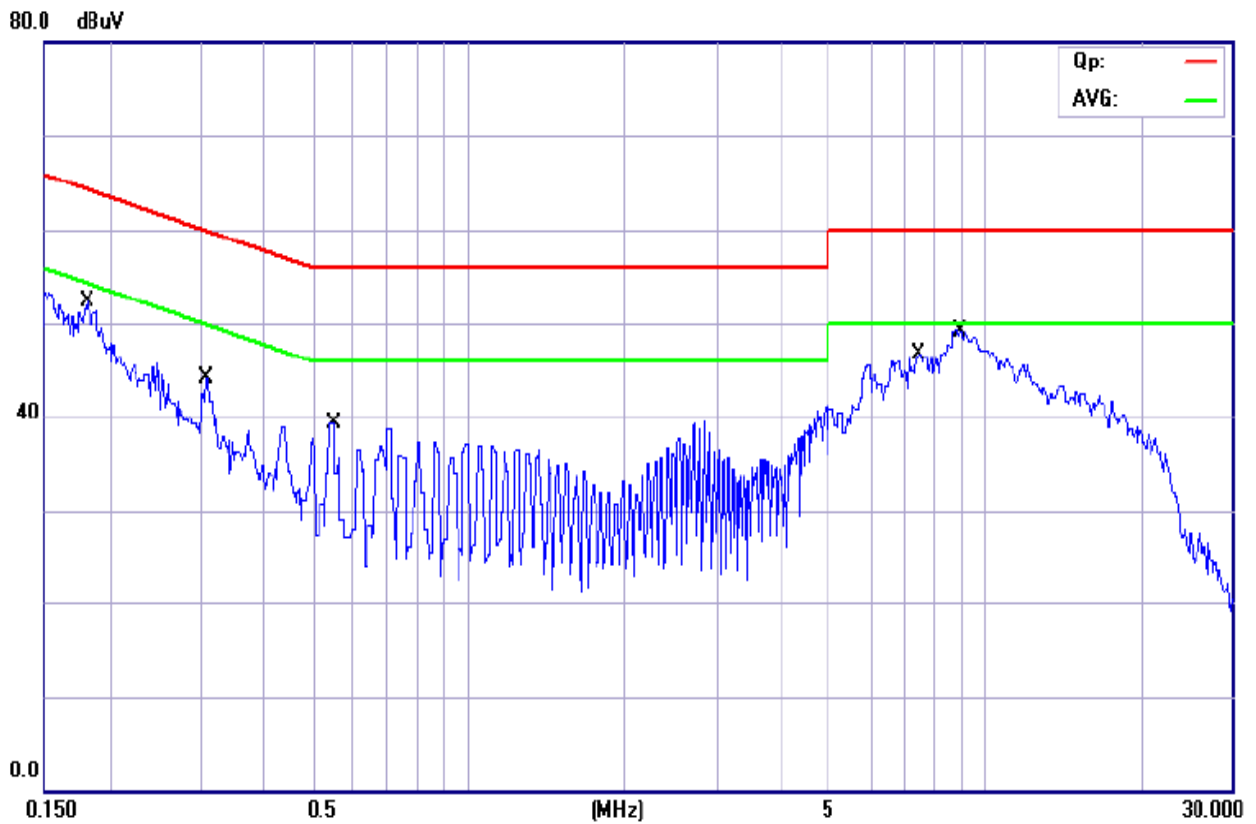
Temperature: 23°C Humidity:70%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Play USB**

**Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dBµV)		Limit(dBµV)	
		Quasi-peak	Average	Quasi-peak	Average
0.182	Live	51.84	32.57	64.38	54.38
0.309	Live	45.24	32.63	59.98	49.98
0.545	Live	37.38	28.59	56.00	46.00
7.393	Live	45.00	28.23	60.00	50.00
8.948	Live	48.95	41.11	60.00	50.00

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

**EUT Operating Environment**

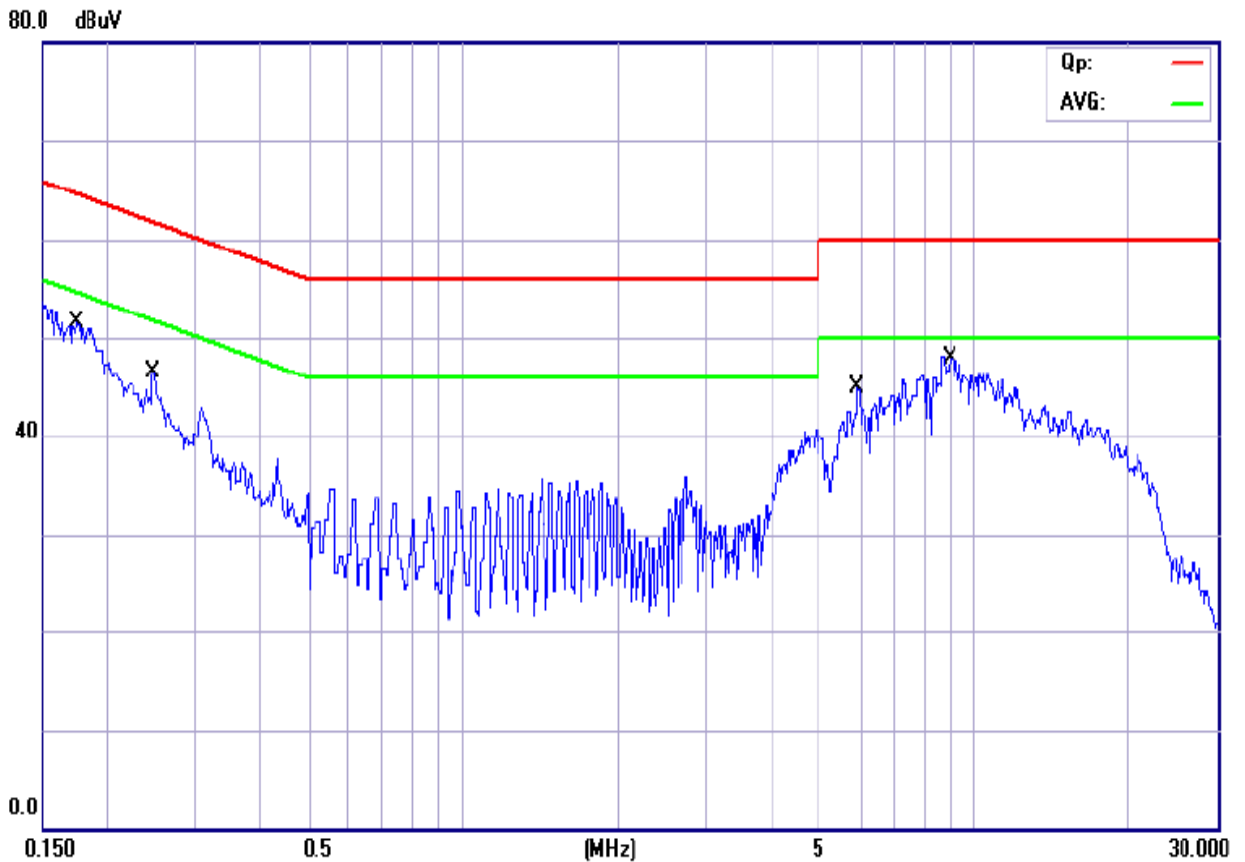
Temperature: 23°C Humidity:70%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Play USB**

**Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dBµV)		Limit(dBµV)	
		Quasi-peak	Average	Quasi-peak	Average
0.174	Neutral	51.76	38.39	64.73	54.73
0.244	Neutral	46.45	44.15	61.95	51.95
5.964	Neutral	45.28	39.75	60.00	50.00
8.948	Neutral	49.20	43.78	60.00	50.00

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

**EUT Operating Environment**

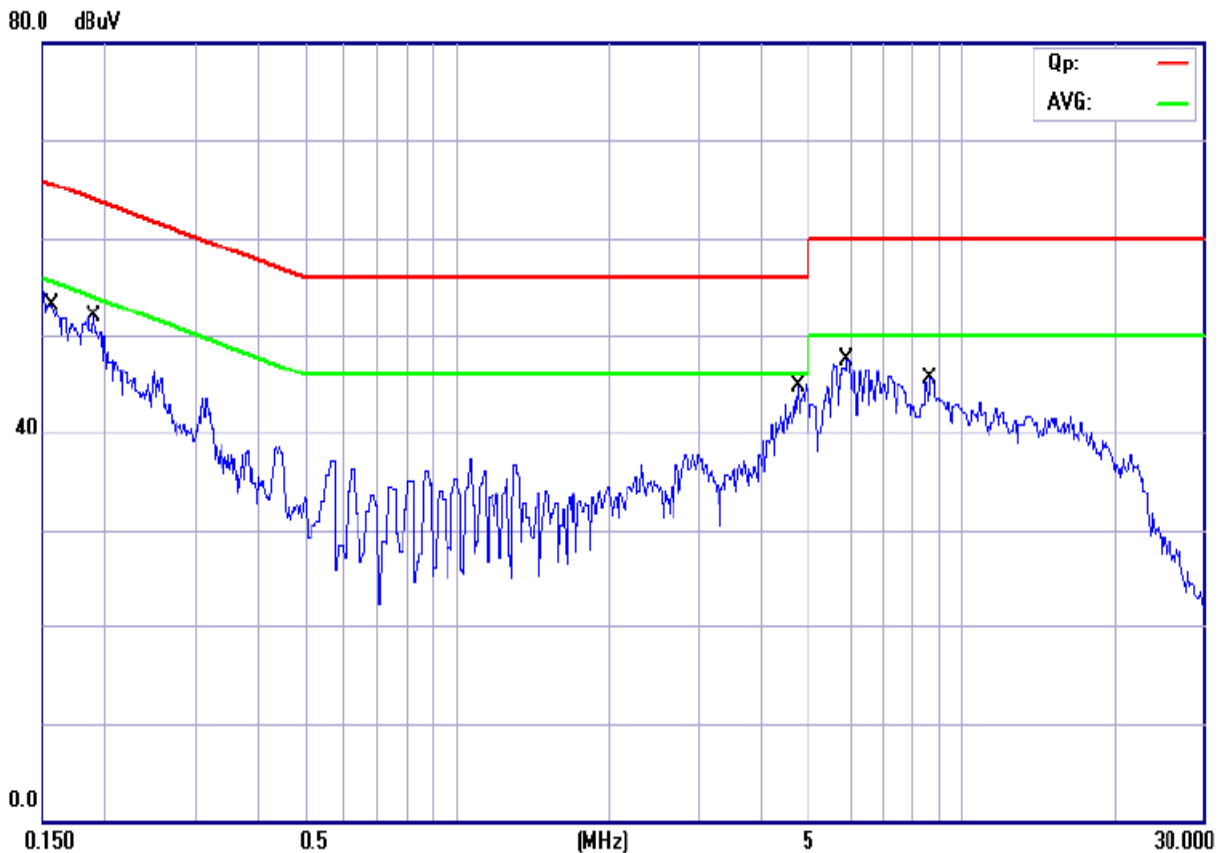
Temperature: 23°C Humidity:70%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Connect to PC**

**Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dBμV)		Limit(dBμV)	
		Quasi-peak	Average	Quasi-peak	Average
0.189	Live	52.84	32.89	64.08	54.08
0.157	Live	52.44	24.59	65.62	55.62
4.723	Live	44.57	25.65	56.00	46.00
5.920	Live	48.18	38.43	60.00	50.00
8.732	Live	46.00	31.93	60.00	50.00

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

**EUT Operating Environment**

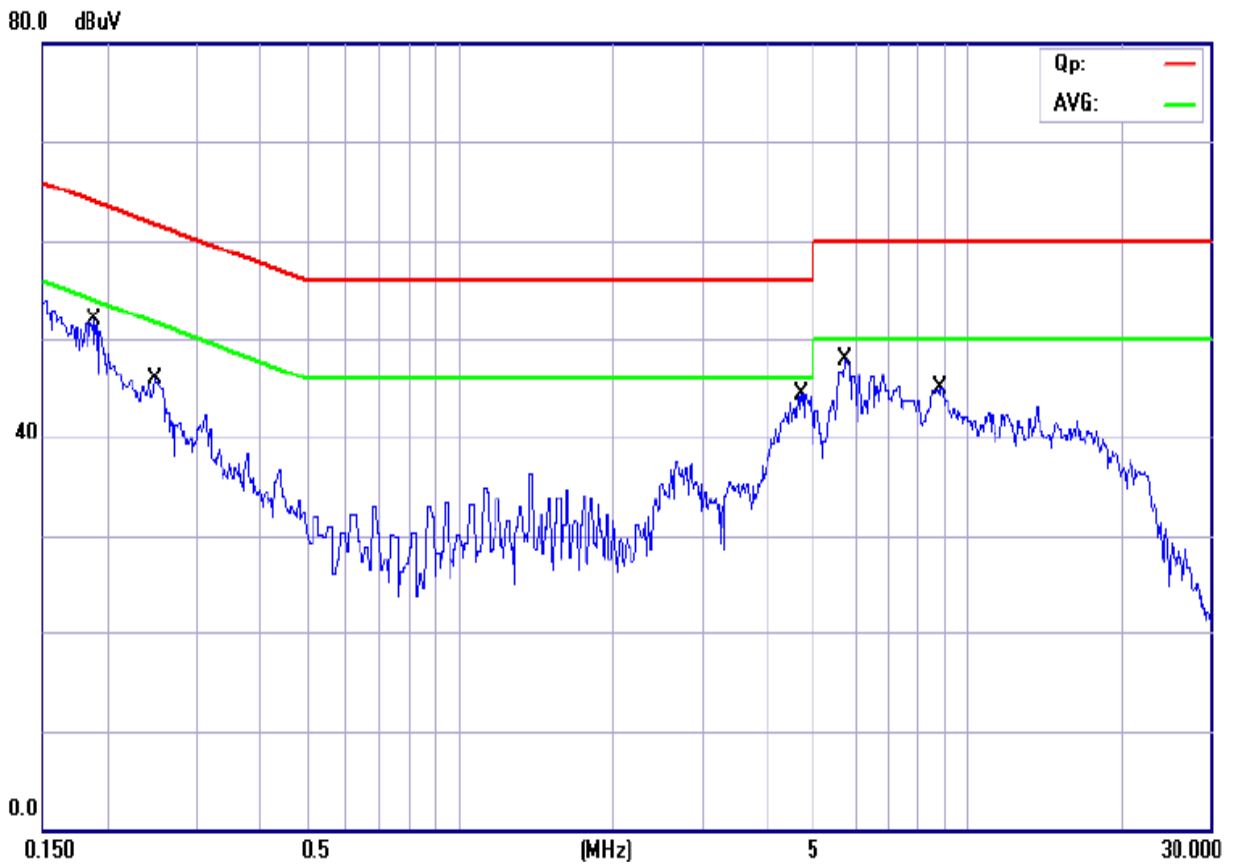
Temperature: 23°C Humidity:70%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Connect to PC**

**Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Line	Reading(dBμV)		Limit(dBμV)	
		Quasi-peak	Average	Quasi-peak	Average
0.189	Neutral	51.91	30.03	64.07	54.07
0.249	Neutral	46.63	32.12	61.79	51.79
4.634	Neutral	41.95	28.15	56.00	46.00
5.659	Neutral	47.33	41.35	60.00	50.00
8.712	Neutral	46.43	41.76	60.00	50.00

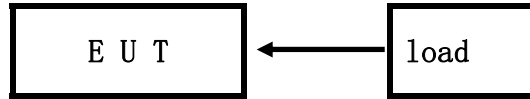
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## 5.0 Radiated Disturbance Test

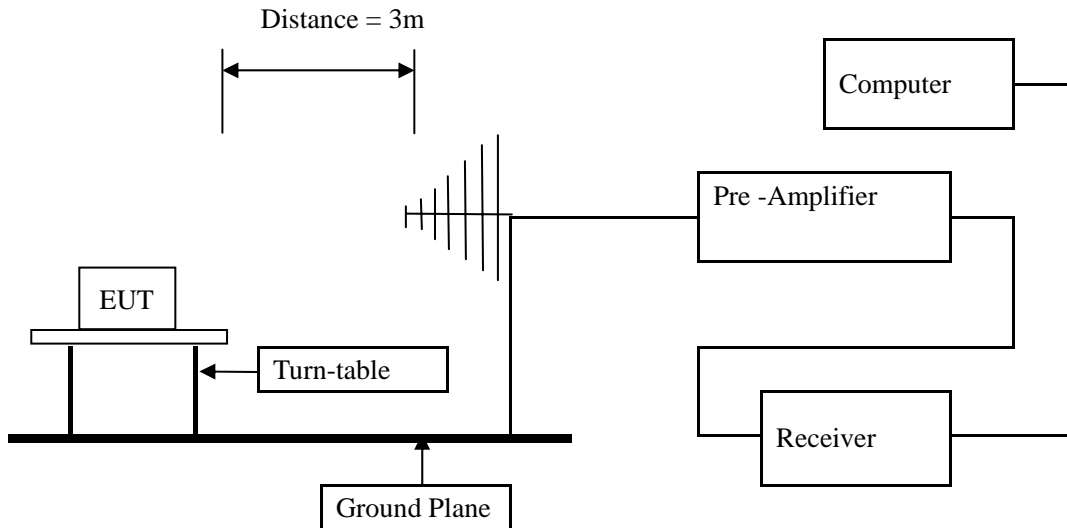
### 5.1 Schematics of the test



### 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.

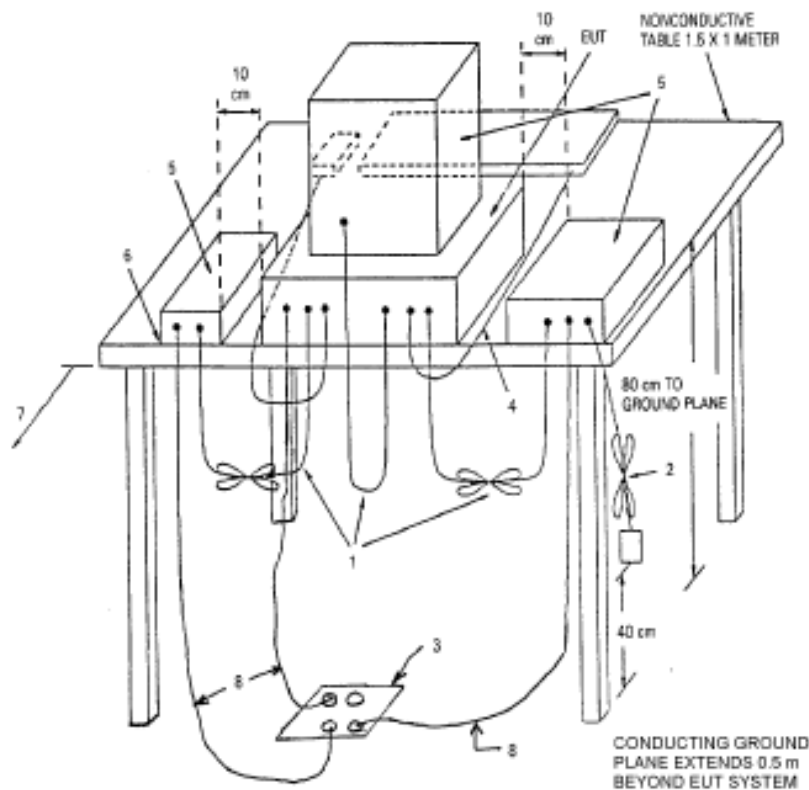
#### Block diagram of Test setup



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### 5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ 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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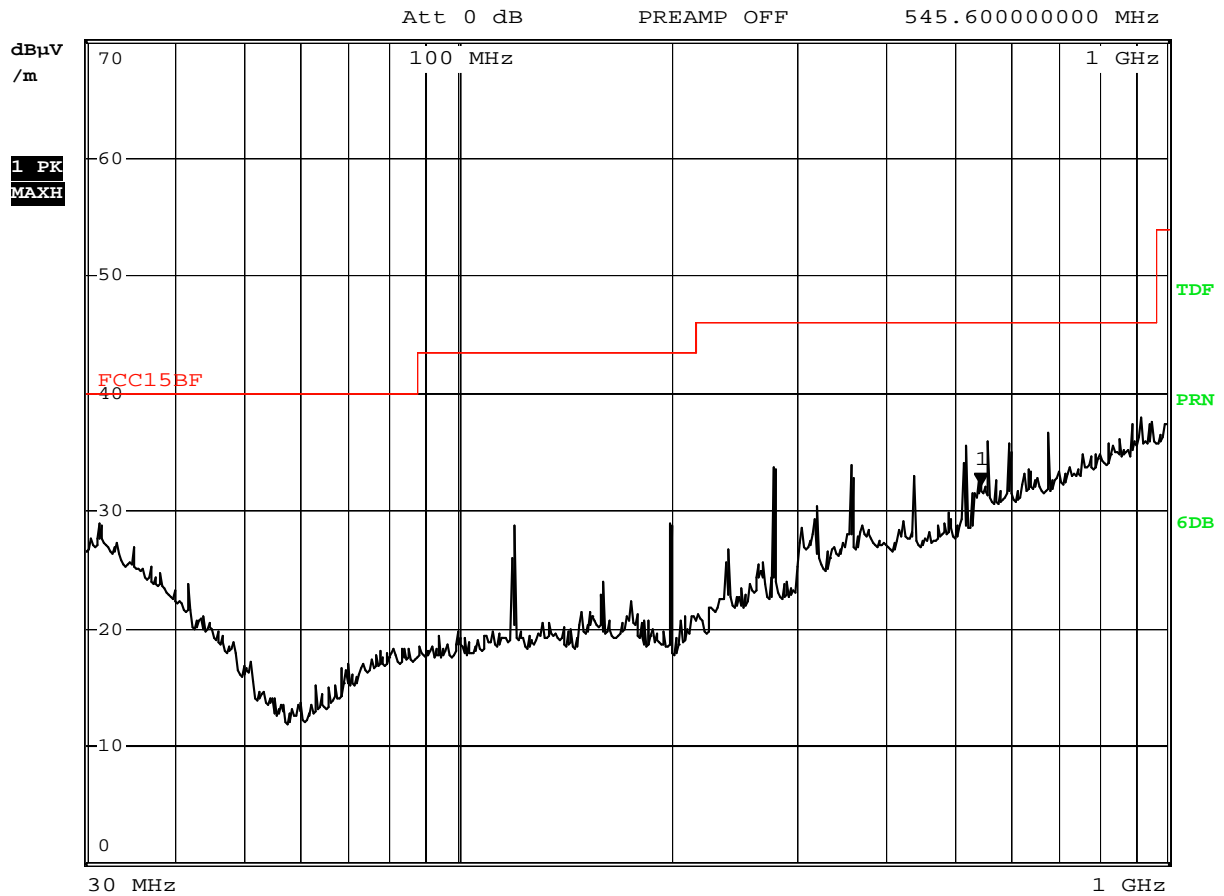
**A: Radiated Disturbance In Horizontal (30MHz----1000MHz)**

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 ]  
 MT 50 μs 32.29 dBμV/m  
 PREAMP OFF 545.60000000 MHz



Date: 9.OCT.2009 21:57:14

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
280.600	33.46	H	46.00
678.520	36.67	H	46.00

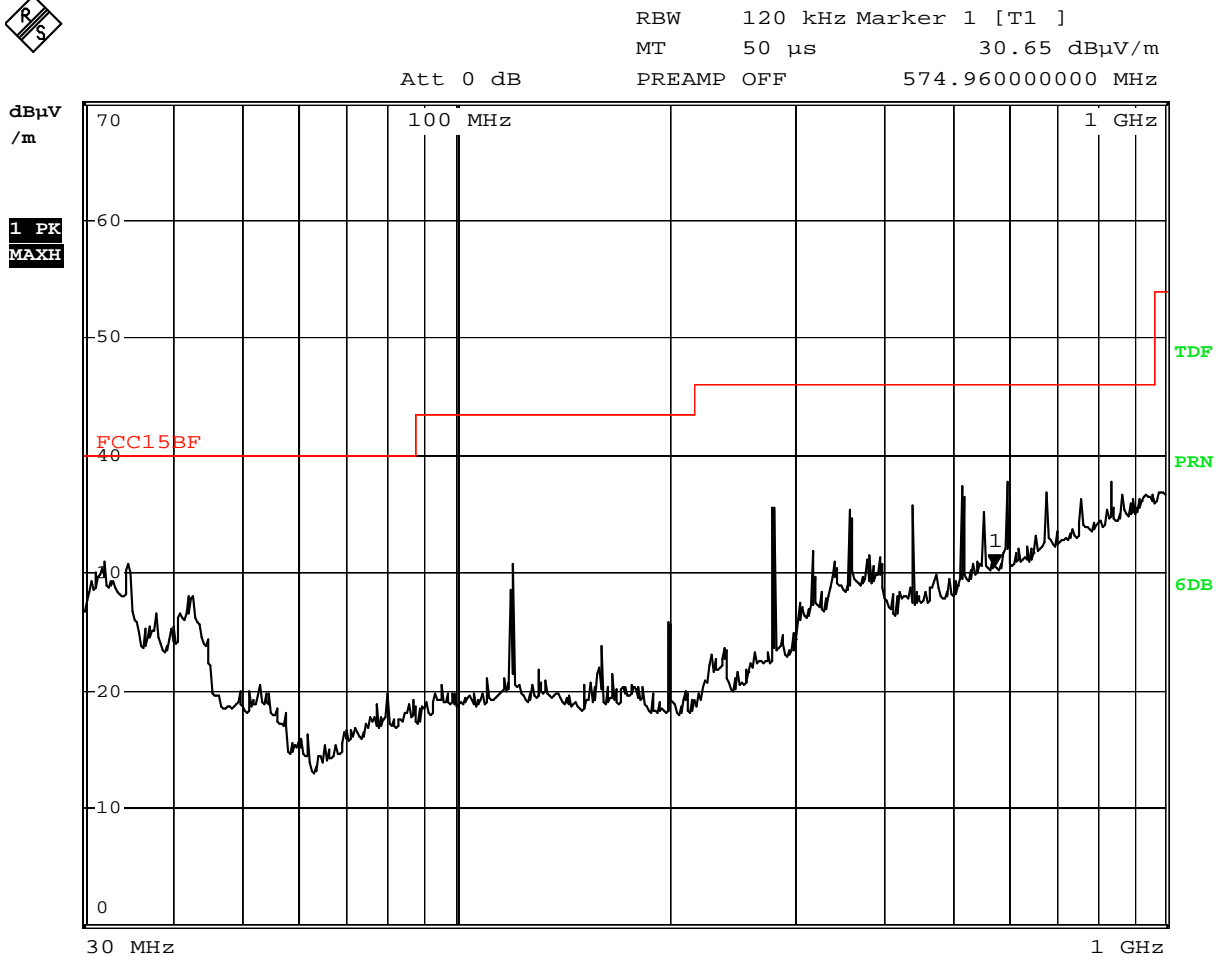
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**B: Radiated Disturbance In Vertical (30MHz---1000MHz)**

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

Please refer to following diagram for individual  
 Picture of the test



Date: 9.OCT.2009 21:54:52

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
120.160	30.80	V	43.50
280.480	35.48	V	46.00
598.640	37.52	V	46.00

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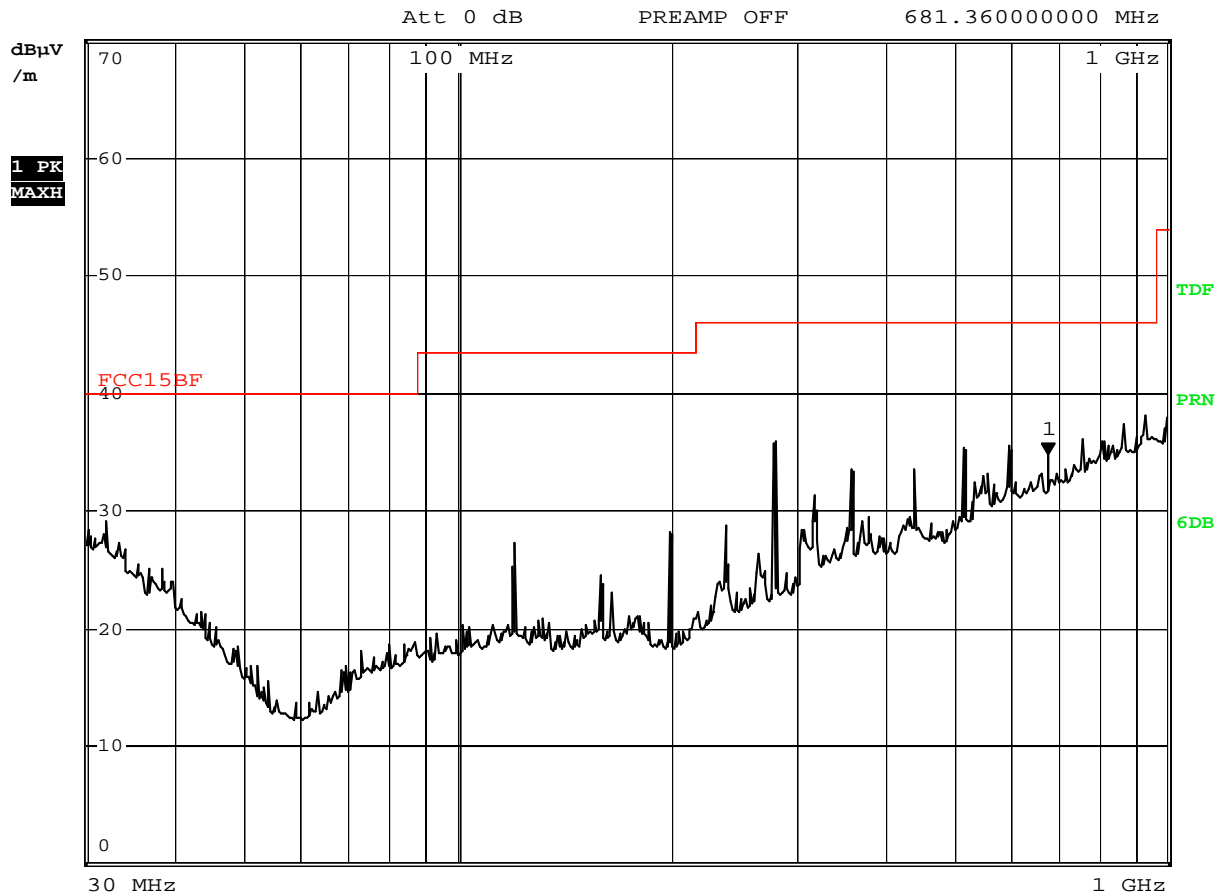
**C: Radiated Disturbance In Horizontal (30MHz----1000MHz)**

EUT set Condition: Play SD  
 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 34.74 dBμV/m  
 PREAMP OFF 681.36000000 MHz



Date: 9.OCT.2009 22:00:29

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
280.600	35.86	H	46.00
935.280	38.10	H	46.00

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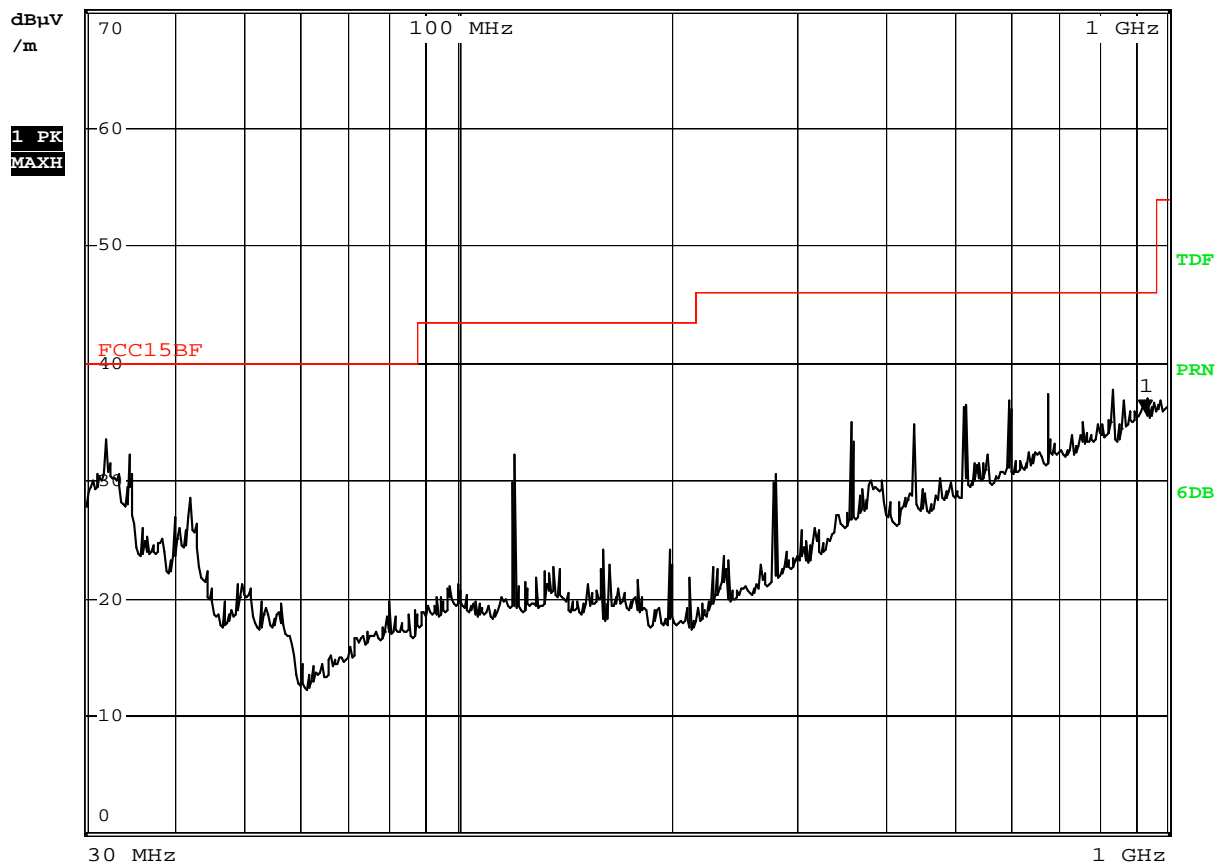
**D: Radiated Disturbance In Vertical (30MHz---1000MHz)**

EUT set Condition: Play SD  
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 35.90 dBμV/m  
Att 0 dB PREAMP OFF 932.60000000 MHz



Date: 9.OCT.2009 22:01:42

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
32.000	33.52	V	40.00
120.160	32.20	V	43.50
837.920	37.72	V	46.00

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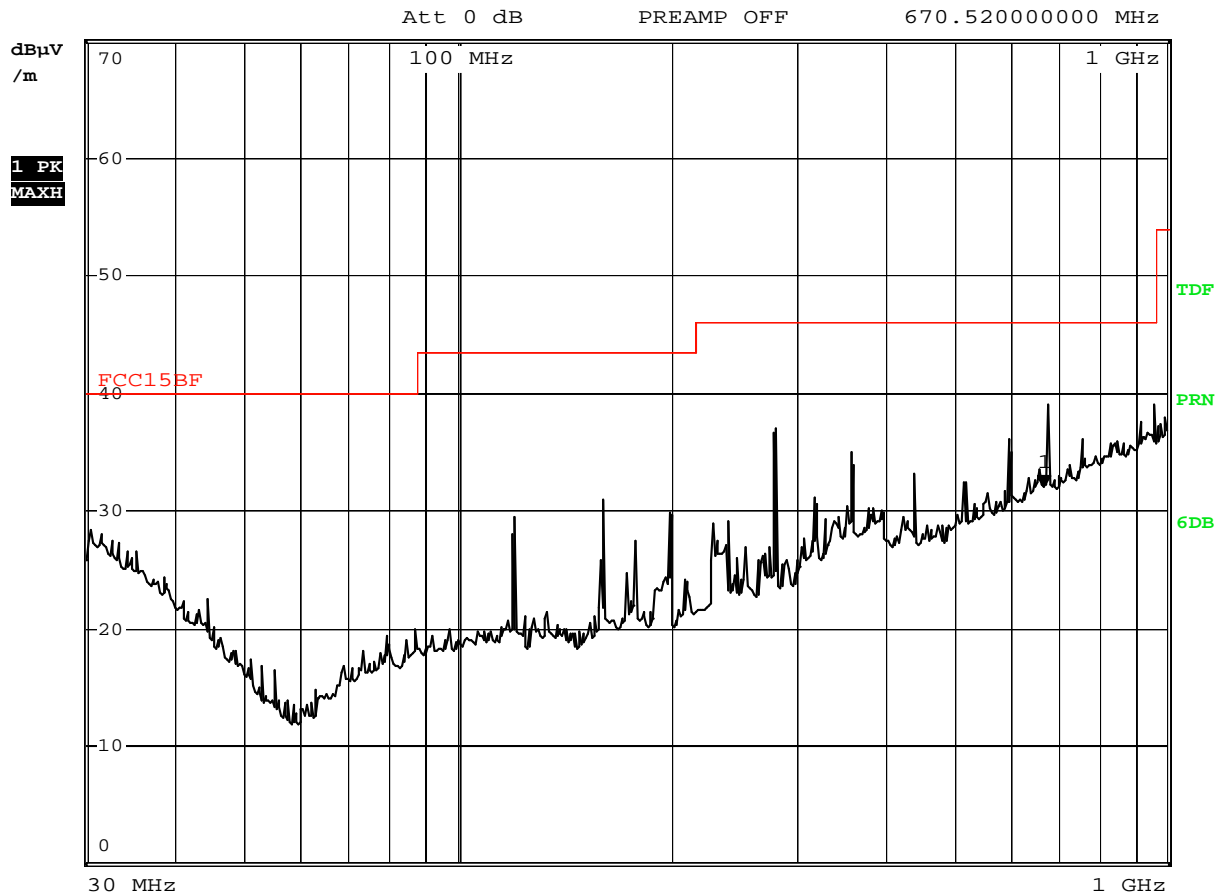
**E: Radiated Disturbance In Horizontal (30MHz----1000MHz)**

EUT set Condition: Play USB  
 Level: Class B  
 Results: PASS

Please refer to following diagram for individual  
 Picture of the test



RBW 120 kHz Marker 1 [T1 ]  
 MT 50 μs 32.09 dBμV/m  
 PREAMP OFF 670.52000000 MHz



Date: 9.OCT.2009 22:53:02

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
280.600	37.08	H	46.00
681.680	39.11	H	46.00

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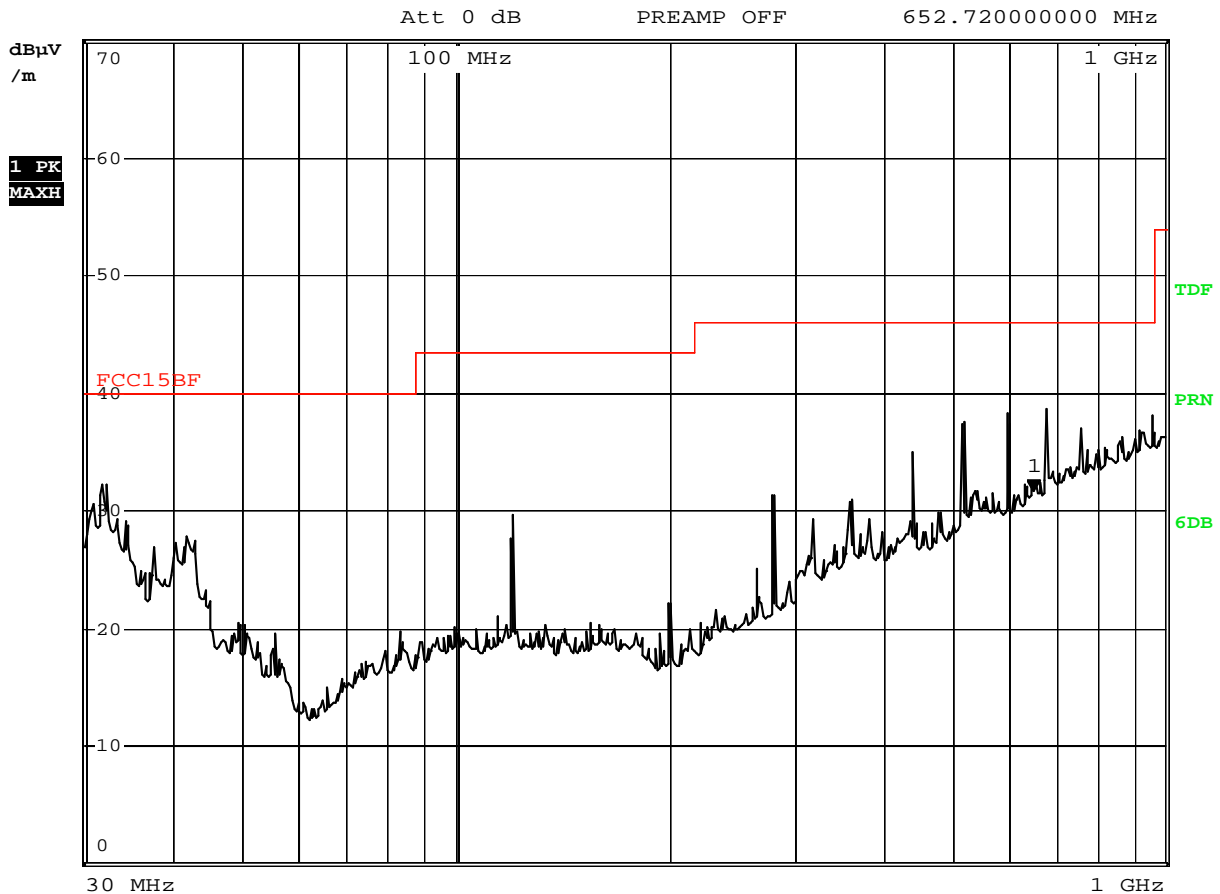
**F: Radiated Disturbance In Vertical (30MHz---1000MHz)**

EUT set Condition: Play USB  
 Level: Class B  
 Results: PASS

Please refer to following diagram for individual  
 Picture of the test



RBW 120 kHz Marker 1 [T1 ]  
 MT 50 μs 31.66 dBμV/m  
 PREAMP OFF 652.72000000 MHz



Date: 9.OCT.2009 22:54:17

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
521.200	37.50	V	46.00
598.640	38.39	V	46.00
681.040	38.62	V	46.00

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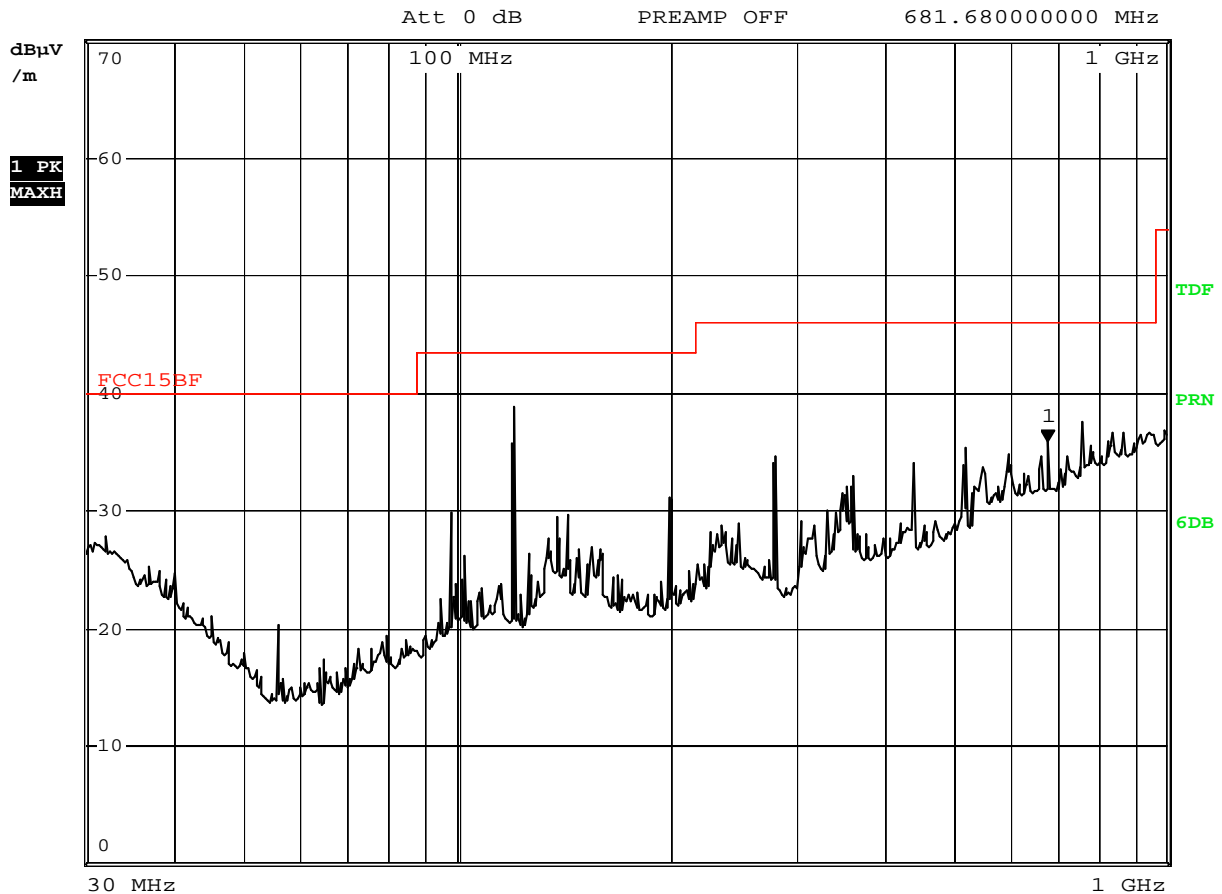
**G: Radiated Disturbance In Horizontal (30MHz----1000MHz)**

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 ]  
 MT 50 μs 36.00 dBμV/m  
 PREAMP OFF 681.68000000 MHz



Date: 9.OCT.2009 22:59:33

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
120.160	38.86	H	43.50
758.240	37.52	H	46.00

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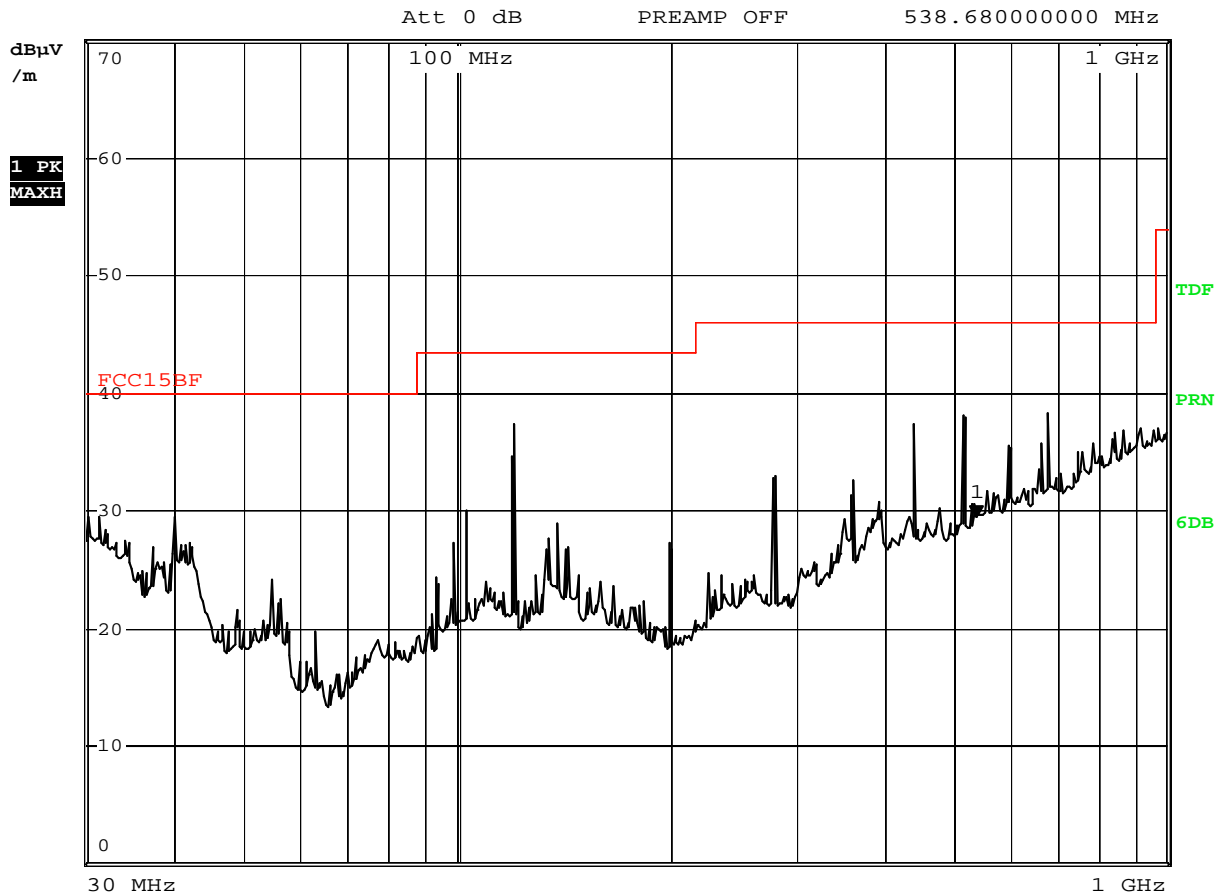
**H: Radiated Disturbance In Vertical (30MHz---1000MHz)**

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 29.43 dBμV/m  
 PREAMP OFF 538.68000000 MHz



Date: 9.OCT.2009 22:57:20

Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
120.160	37.44	V	43.50
518.800	38.17	V	46.00
678.360	38.24	V	46.00

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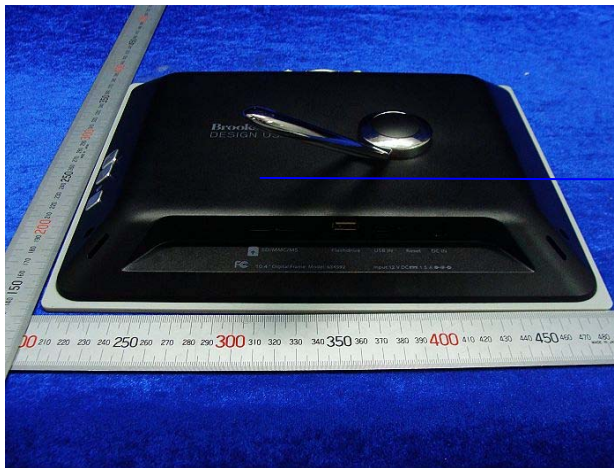
**6.0 FCC ID Label**

FCC ID: V37-BST104INCH

**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:**



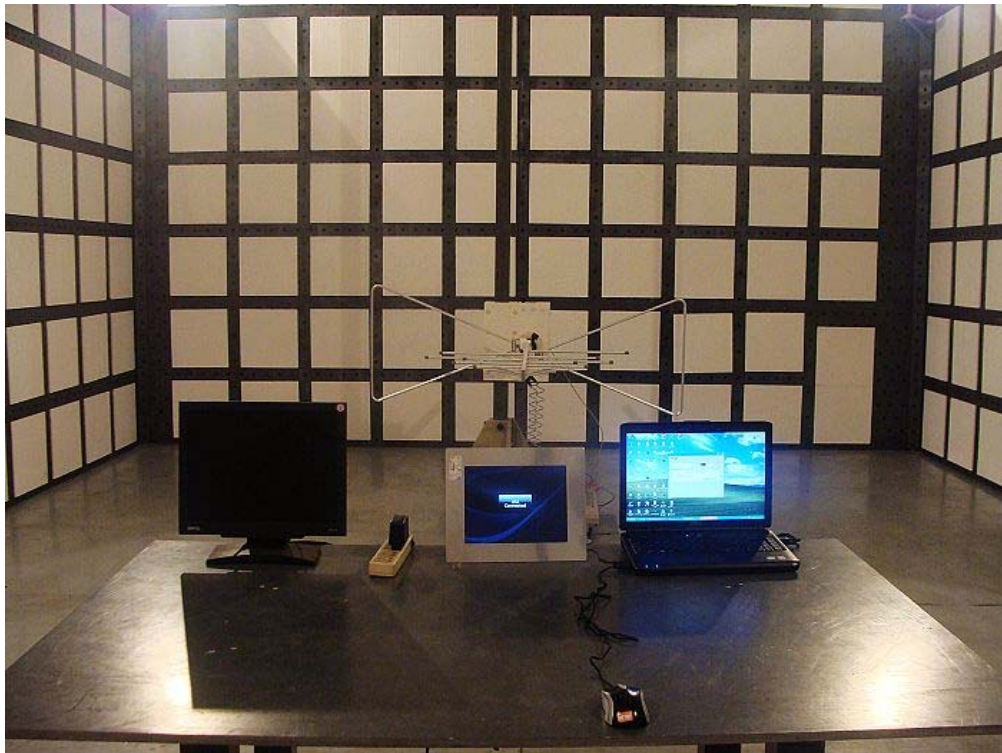
FCC ID Label Location

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7.0 **Photo of testing**

7.1 Photo for testing



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7.2 Photo for the EUT-- Front View



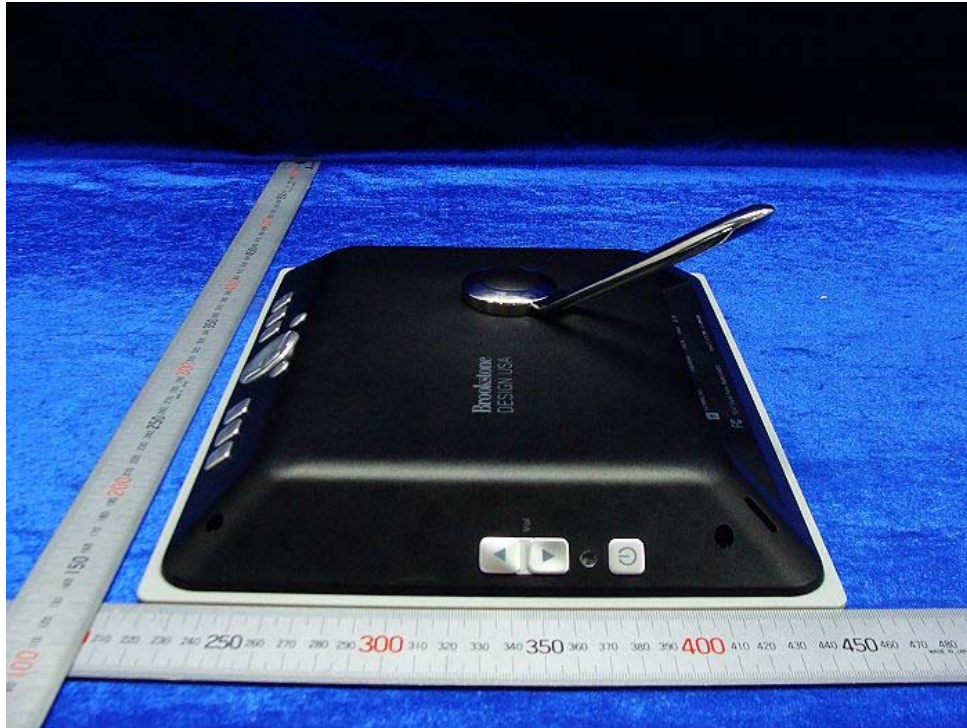
Back View



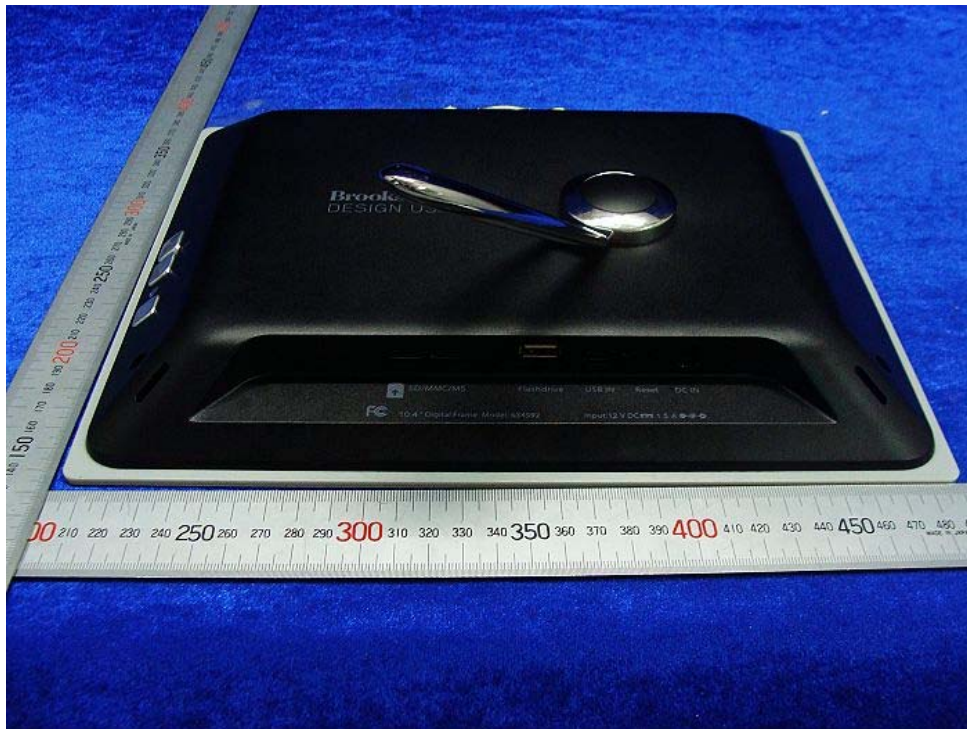
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side View



side View



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side View



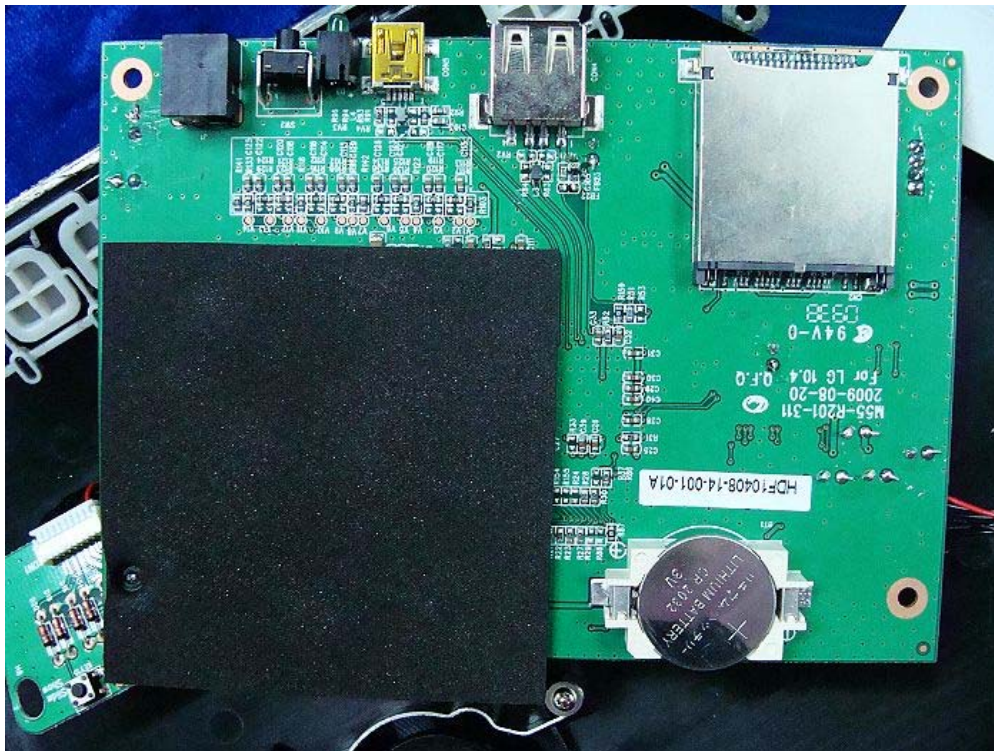
Inside View



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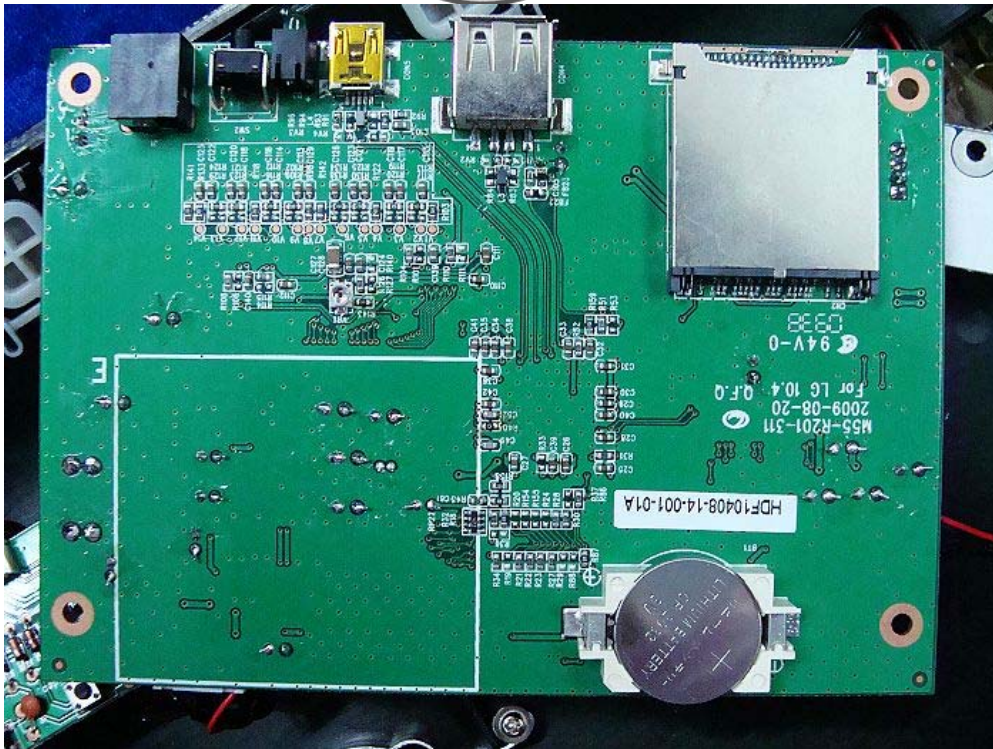


Inside View

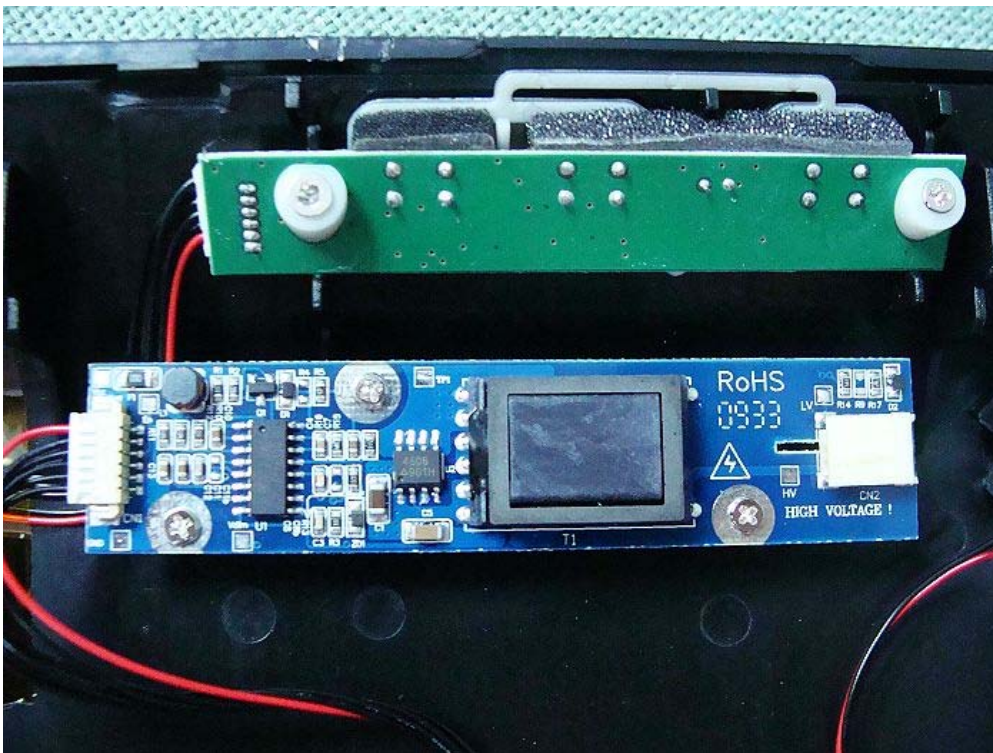


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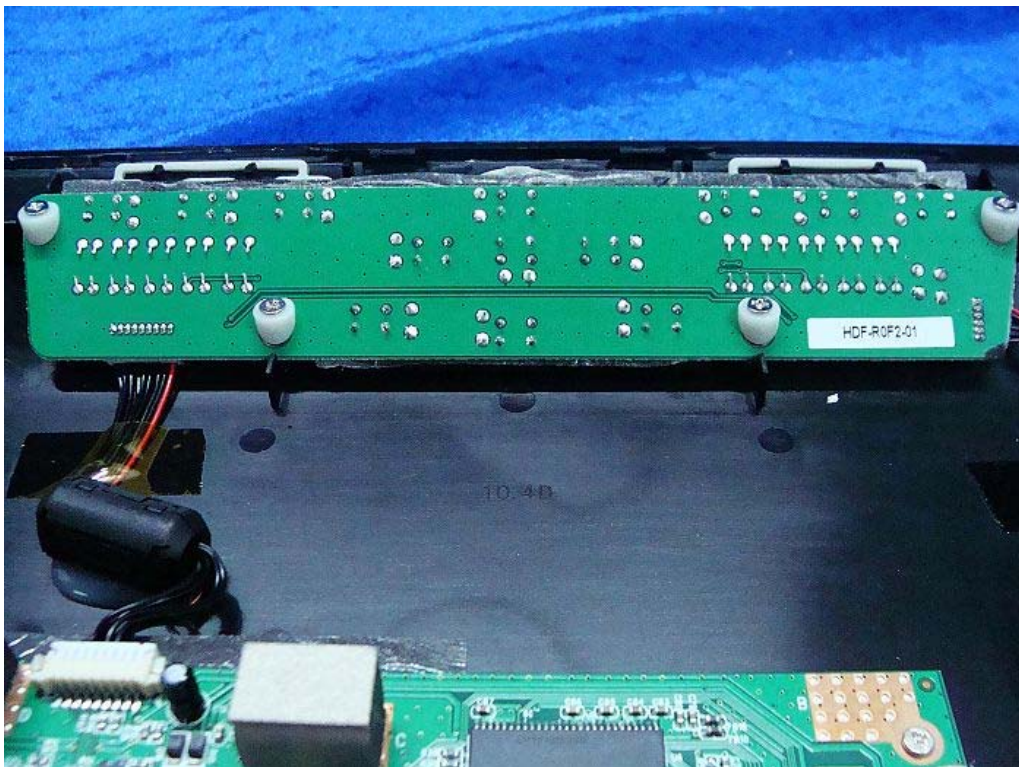
Inside View



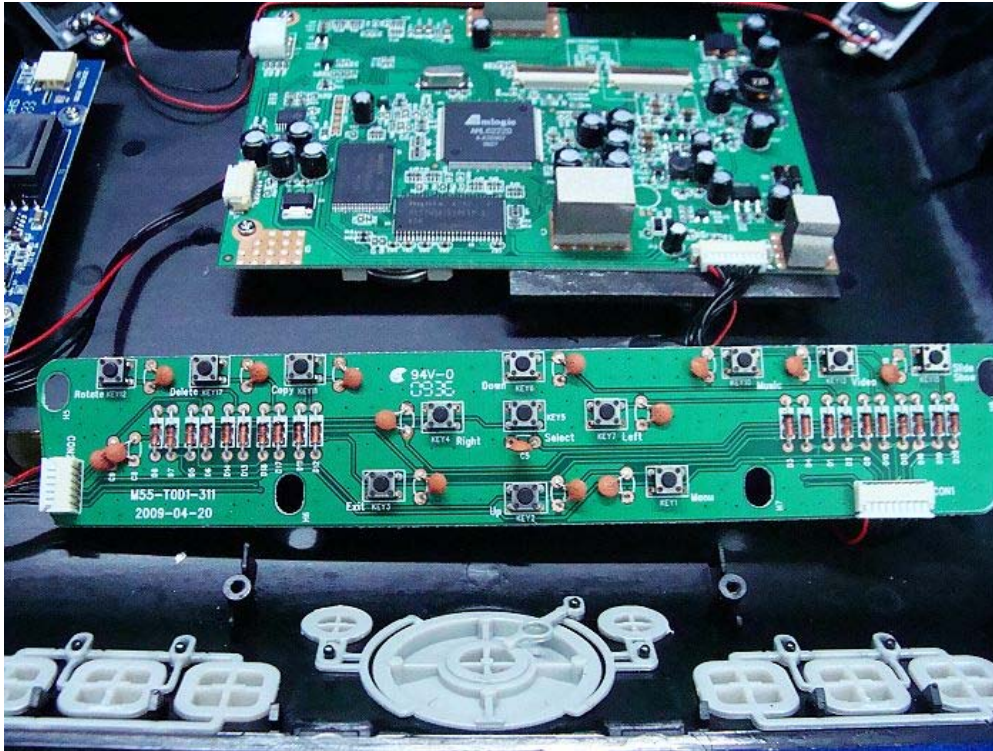
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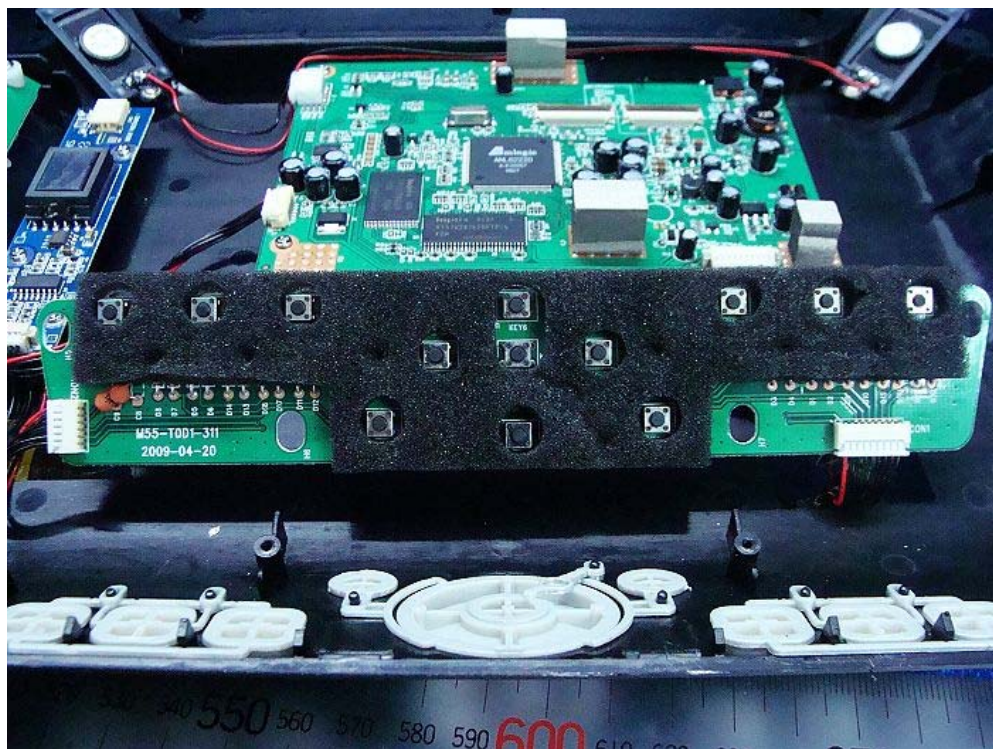
Inside View



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Inside View



**-End of the report-**

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