



卓時檢測
TIMEWAY TESTING LABORATORY



ISO/IEC17025 Accredited Lab.

Report No: FCC 1008150
File reference No: 2010-09-14

Applicant: Shen Zhen Autopro Technology Co., Ltd.

Product: DVD Player with flipdown monitor

Model No: MD11

Trademark: AUTOPRO

Test Standards: FCC Part 15 Subpart C, Paragraph 15.239

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.239 regulations for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung
Manager

Dated: Sept. 14,2010

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

5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District, Shenzhen,CHINA.

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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 meets 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 17025:1999 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 No.: IC 5205A-01.



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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD
Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District,
Shenzhen,CHINA.
Telephone: (755) 83448688
Fax: (755) 83442996
Site on File with the Federal Communications Commission – United States
Registration Number: 899988
For 3m & 10 m OATS
Site Listed with Industry Canada of Ottawa, Canada
Registration Number: IC: 5205A-01
For 3m & 10 m OATS

1.2 Applicant Details

Applicant: Shen Zhen Autopro Technology Co., Ltd.
Address: Bldg H2, Area A, Hongfa Technology Industrial Zone, Shiyan Town, Bao An District,
Shenzhen, China
Telephone: +86-755-27651188
Fax: +86-755-81790759

1.3 Description of EUT

Product: DVD Player with flipdown monitor
Brand Name: AUTOPRO
Model Number: MD11
Additional Model Name: MD102,MD85, VZ1100, VZ1020, VZ8500,BSV-0890
Additional Brand Name: VIZUALOGIC
Difference between Models: These models are identical in interior structure, electrical circuits and components, different appearance with different model names for the marketing requirement
Rating: 12V DC input
Operation Frequency: 88.5MHz, 88.7 MHz, 88.9 MHz, 89.1 MHz, 89.3 MHz, 89.5 MHz, 89.7 MHz, 89.9 MHz,
Frequency Tuning: The frequency tuning controls have been manually adjusted to the highest and lowest TX frequency. The center frequencies of the tuning range are within 88.5MHz to89.9MHz.
Type of Modulation: FM
Antenna Designation: A permanent fixed antenna, which is built-in, designed as an indispensable part of the EUT.

1.4 Submitted Sample: 1 Sample

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1.5 Test Duration

2010-08-13 to 2010-09-14

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

The sample tested by _____

Print Name: Terry Tang

2.0 Test Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2009-12-05	2010-12-04
Absorbing Clamp	ROHDE&SCHWARZ	MDS-21	100126	2009-12-05	2010-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2009-12-05	2010-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2009-12-05	2010-12-04
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2009-12-05	2010-12-04
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2010-03-29	2011-03-28
4-WIRE ISN	ROHDE&SCHWARZ	ENY 41	830663/044	2010-02-17	2011-02-16
GG ENY22 Double 2-Wire ISN	ROHDE&SCHWARZ	ENY22	83066/016	2010-02-17	2011-02-16
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2010-02-17	2011-02-16
System Controller	CT	SC100	-	2010-02-17	2011-02-16
Printer	EPSON	PHOTO EX3	CFNH234850	2010-02-17	2011-02-16
FM-AM Signal Generator	JUNGJIN	SG-150M	389911177	2010-02-17	2011-02-16
Color TV Pattern Generator	PHILIPS	PM5418	LO621747	2010-02-17	2011-02-16
Computer	IBM	8434	1S8434KCE99BLXL O*	-	-
Oscillator	KENWOOD	AG-203D	3070002	2010-02-17	2011-02-16

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Spectrum Analyzer	HAMEG	HM5012	-	-	-
Power Supply	LW	APS1502	-	-	-
5K VA AC Power Source	California Instruments	5001iX	56060	2010-02-17	2011-02-16
CDN	EM TEST	CDN M2/M3	-	2010-02-17	2011-02-16
Attenuation	EM TEST	ATT6/75	-	2010-02-17	2011-02-16
Resistance	EM TEST	R100	-	2010-02-17	2011-02-16
Electromagnetic Injection Clamp	LITTHI	EM101	35708	2010-02-17	2011-02-16
Inductive Components	EM TEST	MC2630	-	2010-02-17	2011-02-16
Antenna	EM TEST	MS100	-	2010-02-17	2011-02-16
Signal Generator	ROHDE&SCHWARZ	SMT03	100029	2010-02-17	2011-02-16
Power Amplifier	AR	150W1000	300999	2010-02-17	2011-02-16
Field probe	Holaday	HI-6005	105152	2010-02-17	2011-02-16
Bilog Antenna	Chase	CBL6111C	2576	2010-02-17	2011-02-16
Loop Antenna	EMCO	6502	00042960	2010-02-17	2011-02-16
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2010-02-17	2011-02-16
3m OATS	--	--	N/A	2010-02-17	2011-02-16

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	N/A	N/A
FCC Part 15 Subpart C Paragraph 15.239 Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	PASS	Meets Class B Limit
Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the Radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).	Band Edge Test	PASS	The field strength of any Emissions, which appear Outside of this band, shall not exceed the general Radiated emission limits in Section 15.209.

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.239

4.0 EUT Modification

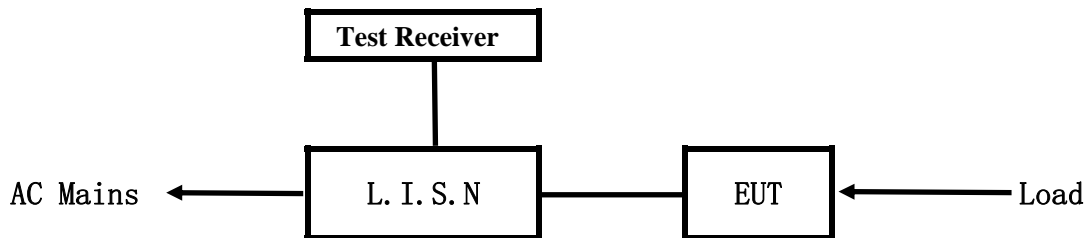
No modification by Shenzhen Timeway Technology Consulting Co.,Ltd

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5. Power Line Conducted Emission Test

5.1 Schematics of the test

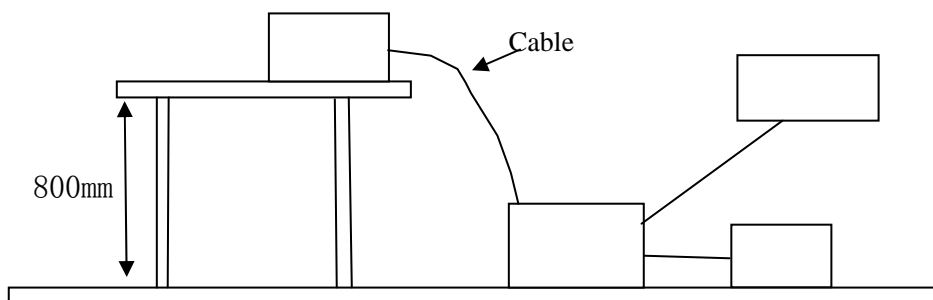


EUT: Equipment Under Test

5.2 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.

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the Appropriate peripherals. All peripherals and cables are listed below.

Note: EUT can be powered by vehicle with 12V electrical system or batteries. During radiated emission test, EUT power by a regulated DC power supply because it produced more emission at this time.

A. EUT

Device	Manufacturer	Model	FCC ID
DVD Player with Flipdown Monitor	Shen Zhen Autopro Technology Co., Ltd.	MD11	VUDAUTOPRO2010A

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003.

A Setup the EUT and simulators as shown on follow

B Set the volume to the maximum on the DVD Player and play a DVD disc to produce a typical signal, but Not a 1kHz signal.

C the frequency tuning controls have been manually adjusted to the highest and lowest TX frequency. The center frequencies of the tuning range are within 88.1MHz to 107.9MHz.

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Class A Limits (dB μ V)		Class B Limits (dB μ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.0	66.0	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	60.0	50.0

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

5.6 Test Results

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

Note: **Owing to DC operation of EUT, this test item is not performed**

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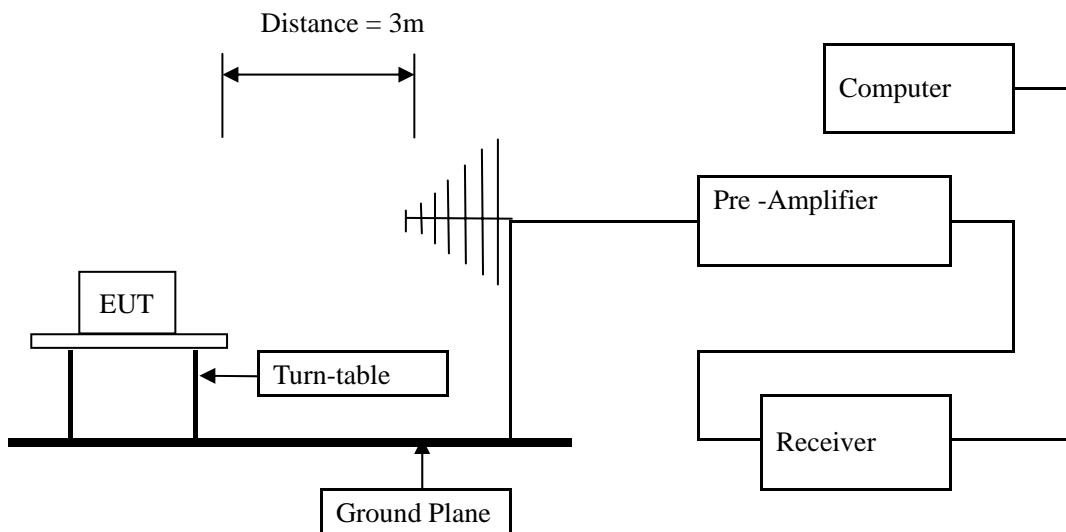


6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz . Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

Block diagram of Test setup



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

A FCC Part 15 Subpart C Paragraph 15.239 Limit

Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)	
	uV/m	dBuV/m
88 to 108	250	47.96

- Note:
1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
 2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
 4. New battery used in the test for each test

6.5 Test result

A Fundamental Radiated Emission Data

Product:	Car DVD Player with Monitor	Test Mode:	88.5MHz, Play DVD
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	12V	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
88.5	49.65(PK)/46.52(AV)	Vertical	67.96/47.96	-18.31/-1.44
88.5	47.22(PK)/45.33(AV)	Horizontal	67.96/47.96	-20.74/-5.62

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Product:	Car DVD Player with Monitor	Test Mode:	89.9MHz, Play DVD
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	12V	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
89.9	48.53 (PK)/46.76 (AV)	Vertical	67.96/47.96	-19.43/-1.20
89.9	47.27 (PK)/ 45.86(AV)	Horizontal	67.96/47.96	-20.19/-2.10

Product:	Car DVD Player with Monitor	Test Mode:	89.9MHz, AV-IN
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	12V	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
89.9	51.94(PK)/ 46.71(AV)	Vertical	67.96/47.96	-16.02/-1.25
89.9	49.41 (PK)/45.72 (AV)	Horizontal	67.96/47.96	-18.55/-2.24

Product:	Car DVD Player with Monitor	Test Mode:	88.5MHz, AV-IN
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	12V	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
88.5	51.01(PK)/ 46.74 (AV)	Vertical	67.96/47.96	-16.95/-1.22
88.5	49.81 (PK)/45.99(AV)	Horizontal	67.96/47.96	-18.15/-2.07

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Product:	Car DVD Player with Monitor	Test Mode:	89.9MHz, Play SD
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	12V	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
89.9	51.34(PK)/ 45.93(AV)	Vertical	67.96/47.96	-16.62/-2.03
89.9	49.28 (PK)/45.45 (AV)	Horizontal	67.96/47.96	-18.68/-2.51

Product:	Car DVD Player with Monitor	Test Mode:	88.5MHz, Play SD
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	12V	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
88.5	50.05(PK)/ 46.02(AV)	Vertical	67.96/47.96	-17.91/-1.94
88.5	48.72 (PK)/44.28 (AV)	Horizontal	67.96/47.96	-19.24/-3.68

Product:	Car DVD Player with Monitor	Test Mode:	88.5MHz, Play USB
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	12V	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
88.5	50.27(PK)/ 46.08(AV)	Vertical	67.96/47.96	-17.69/-1.88
88.5	49.46 (PK)/46.57 (AV)	Horizontal	67.96/47.96	-18.50/-1.39

Product:	Car DVD Player with Monitor	Test Mode:	89.9MHz, Play USB
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	12V	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
89.9	50.64(PK)/ 46.61(AV)	Vertical	67.96/47.96	-17.32/-1.35
89.9	49.86 (PK)/46.02 (AV)	Horizontal	67.96/47.96	-18.10/-1.94

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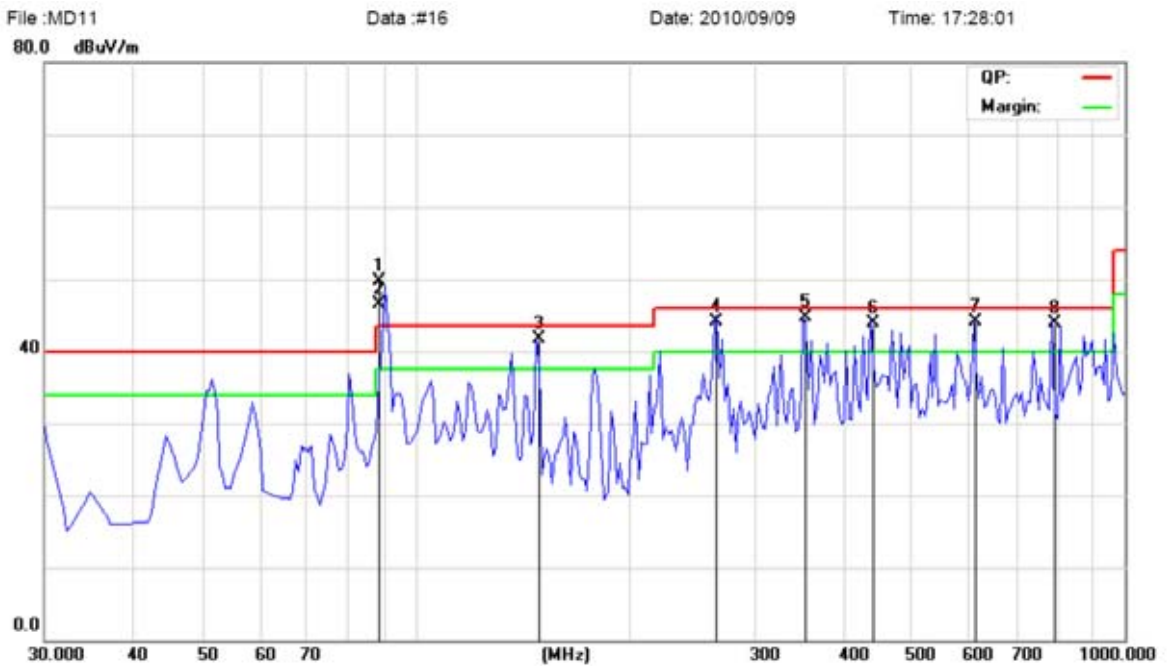
A. General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: 88.5MHz&Play DVD

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
148.825	41.63	V	43.50
265.546	44.01	V	46.00
354.950	44.56	V	46.00
440.847	43.86	V	46.00
616.850	44.13	V	46.00
793.286	43.68	V	46.00

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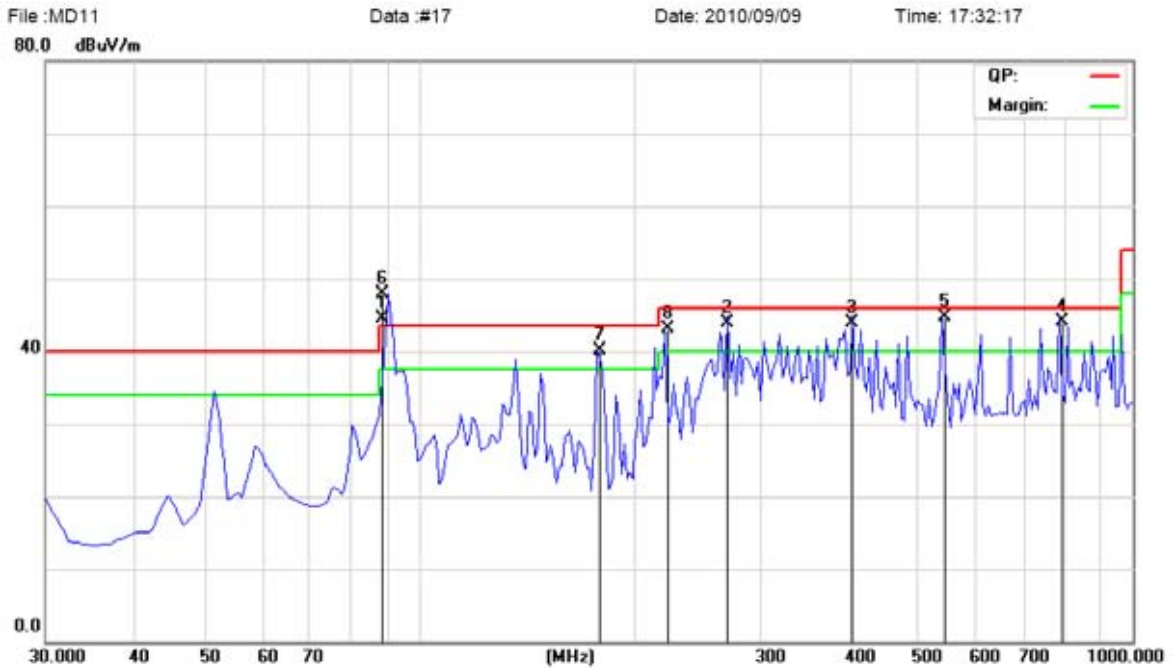
B. General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: 88.5MHz&Play DVD

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
270.008	43.98	H	46.00
404.989	43.85	H	46.00
793.266	44.02	H	46.00
541.675	44.52	H	46.00
177.925	40.12	H	43.50
221.575	43.15	H	46.00

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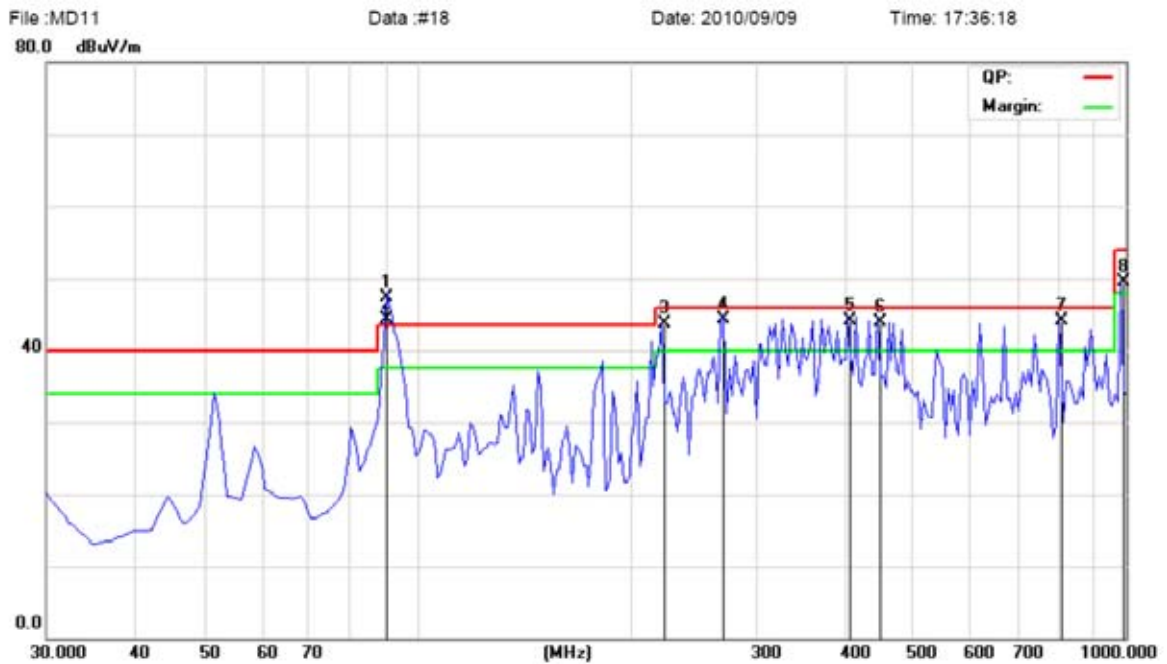
C. General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: 89.9MHz&Play DVD

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
221.575	43.73	H	46.00
269.678	44.26	H	46.00
405.875	44.00	H	46.00
449.525	43.82	H	46.00
808.420	44.15	H	46.00
985.451	49.52	H	54.00

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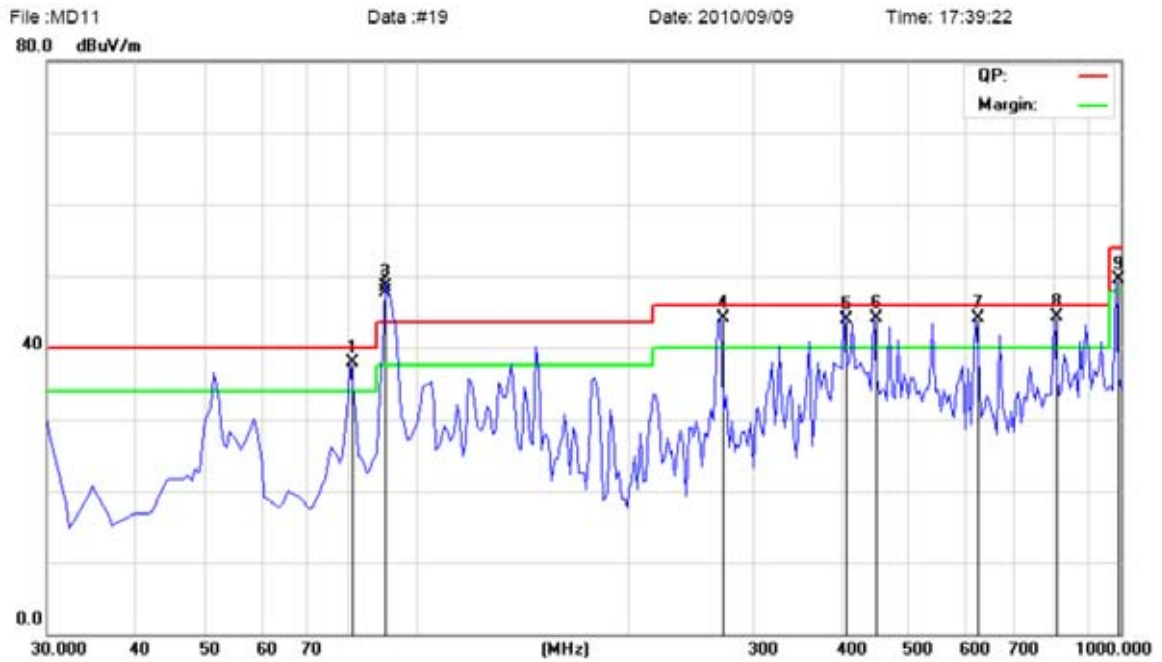
D. **General Radiated Emission Data and Harmonics Radiated Emission Data**

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

EUT set Condition: 89.9MHz&Play DVD

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
80.923	38.00	V	40.00
272.500	44.18	V	46.00
405.874	43.92	V	46.00
449.525	44.06	V	46.00
626.420	44.28	V	46.00
808.425	44.19	V	46.00
985.450	49.35	V	54.00

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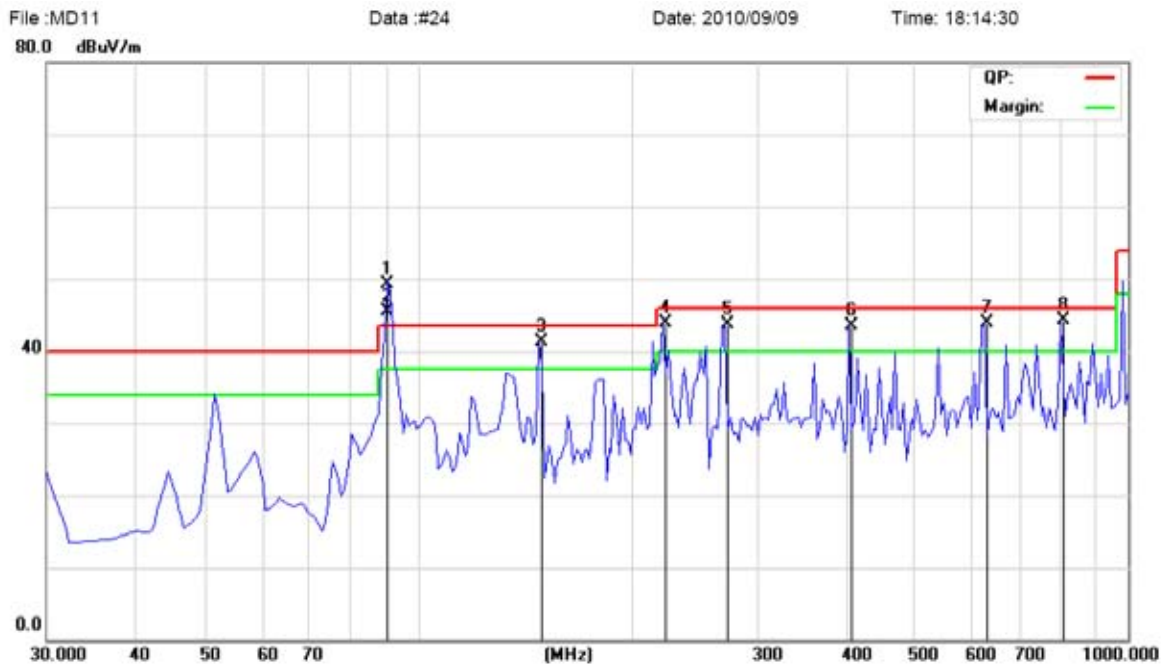
E. **General Radiated Emission Data and Harmonics Radiated Emission Data**

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

EUT set Condition: 89.9MHz&Play SD

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
148.825	41.38	H	43.50
221.575	43.96	H	46.00
272.500	43.61	H	46.00
405.875	43.59	H	46.00
628.975	44.01	H	46.00
808.425	44.26	H	46.00

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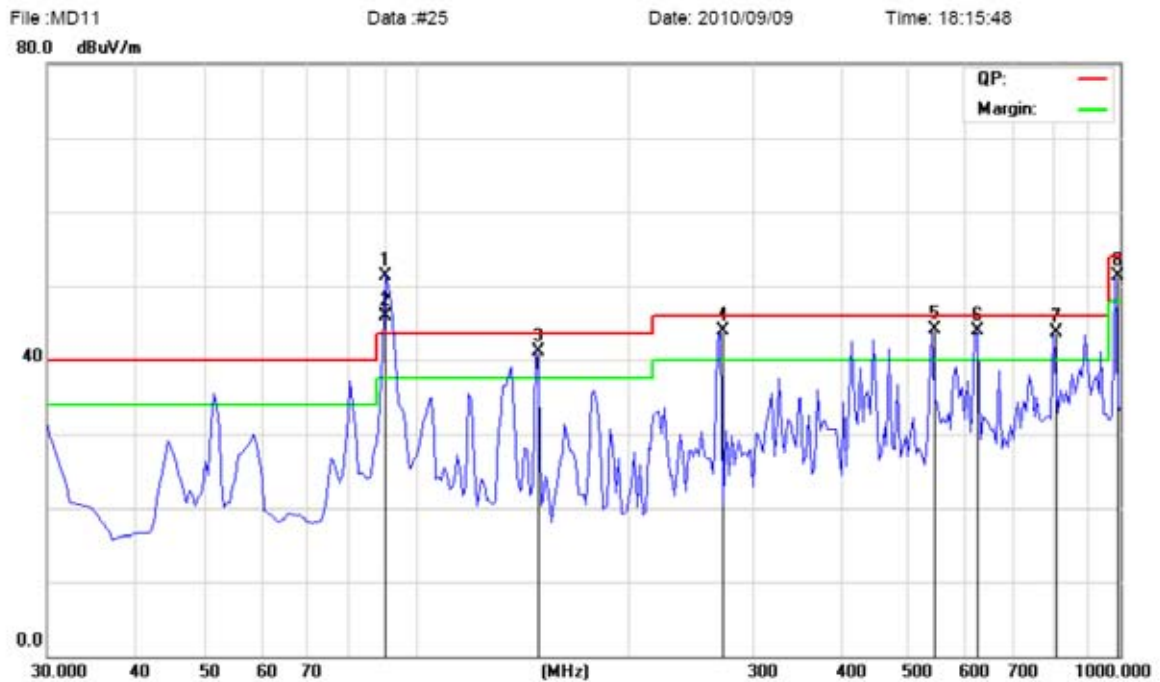
F. **General Radiated Emission Data and Harmonics Radiated Emission Data**

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

EUT set Condition: 89.9MHz&Play SD

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
148.825	41.08	V	43.50
272.500	43.90	V	46.00
541.670	44.16	V	46.00
626.550	43.82	V	46.00
808.400	43.68	V	46.00
985.450	51.30	V	54.00

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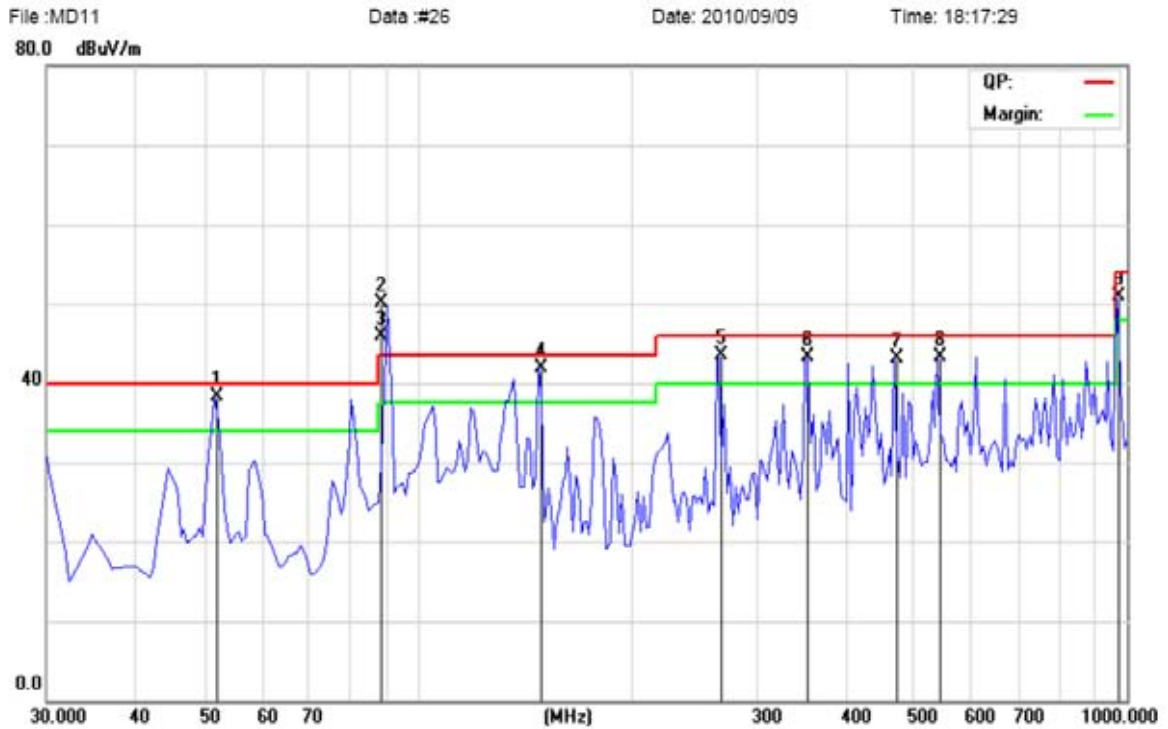
G. General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: 88.5MHz&Play SD

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
148.825	41.49	V	43.50
267.650	43.60	V	46.00
354.950	43.28	V	46.00
473.775	43.35	V	46.00
541.675	43.82	V	46.00
970.900	50.93	V	54.00

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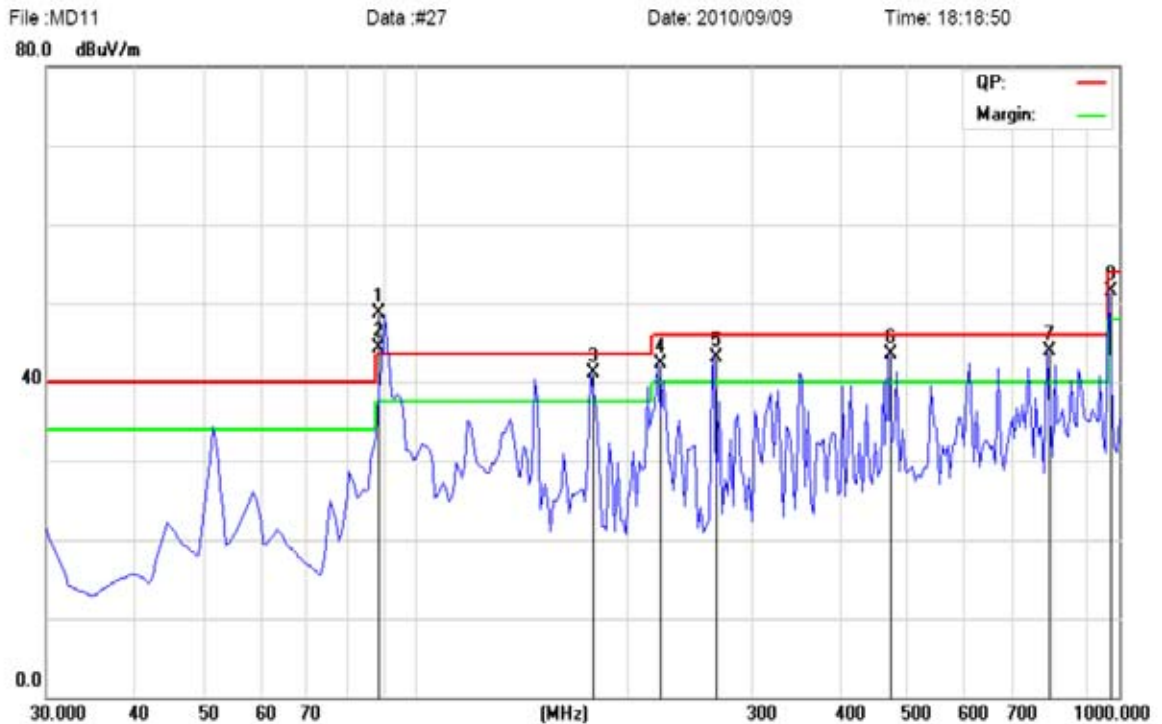
H. **General Radiated Emission Data and Harmonics Radiated Emission Data**

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

EUT set Condition: 88.5MHz&PlaySD

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
177.928	41.07	H	43.50
221.575	42.24	H	46.00
267.650	43.16	H	46.00
473.772	43.54	H	46.00
793.875	43.88	H	46.00
970.900	51.50	H	54.00

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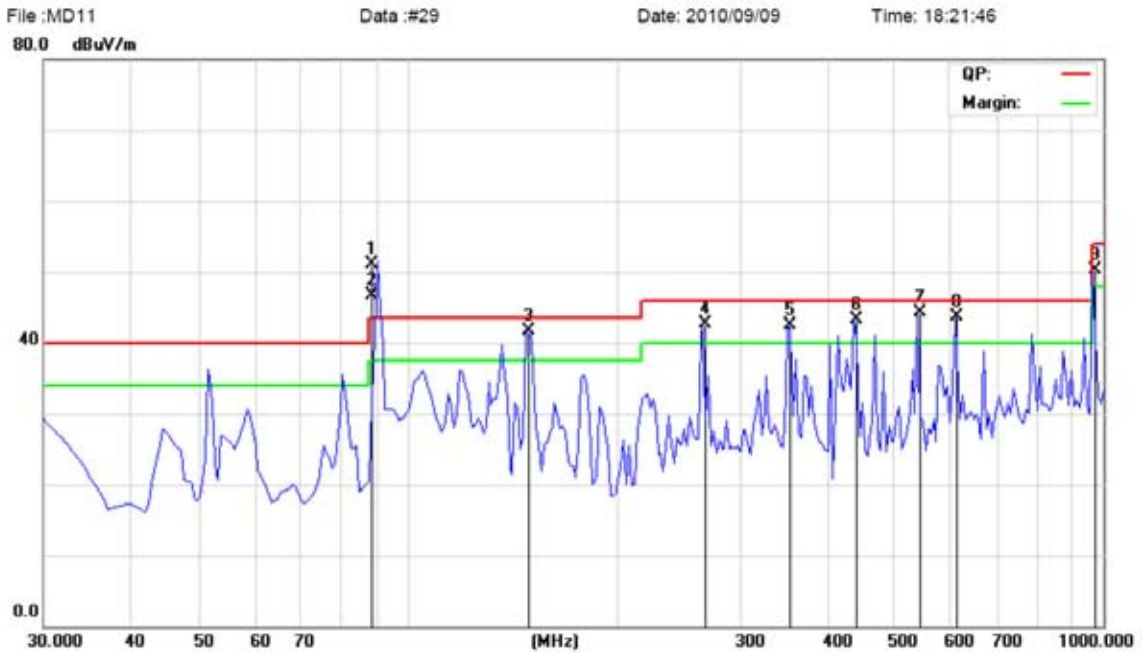
I. **General Radiated Emission Data and Harmonics Radiated Emission Data**

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

EUT set Condition: 88.5MHz&AV-IN

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
148.825	41.62	V	40.00
267.650	42.68	V	43.50
354.950	42.43	V	43.50
442.250	43.21	V	43.50
541.675	44.25	V	43.50
616.850	43.66	V	46.00
968.475	50.21	V	54.00

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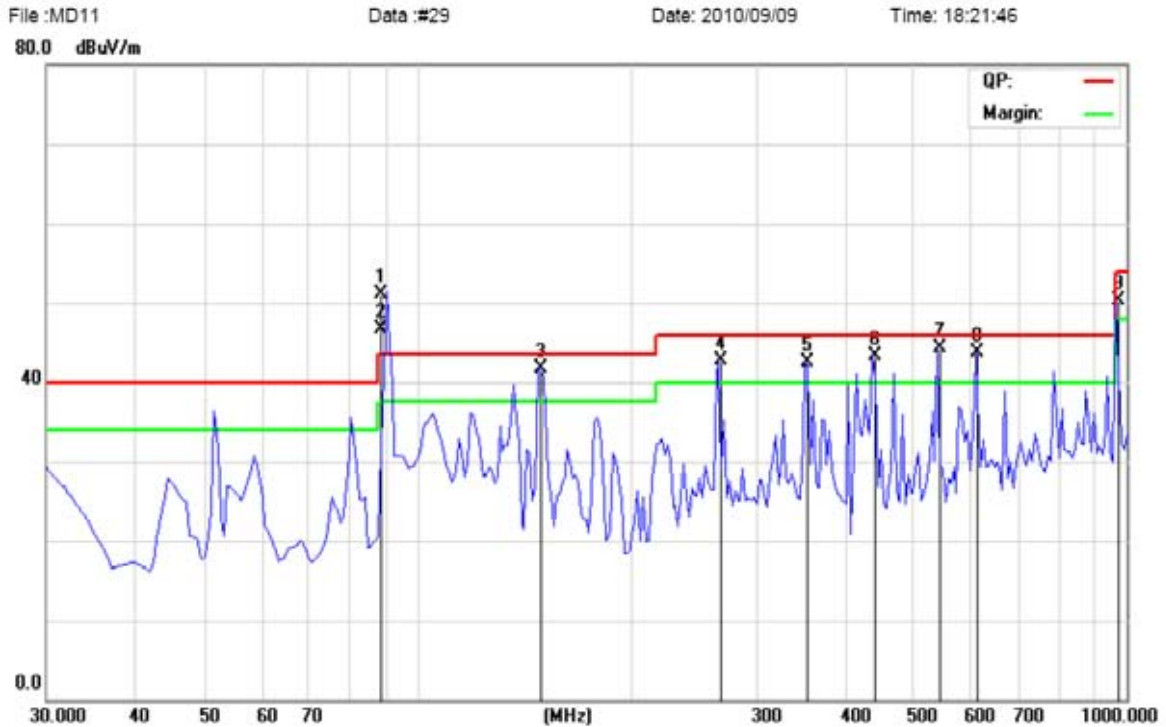
J. General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: 88.5MHz& AV-IN

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB µ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
148.825	40.31	H	43.50
221.575	43.48	H	46.00
405.875	44.48	H	46.00
541.670	43.22	H	46.00
881.175	43.65	H	46.00
970.900	51.64	H	54.00

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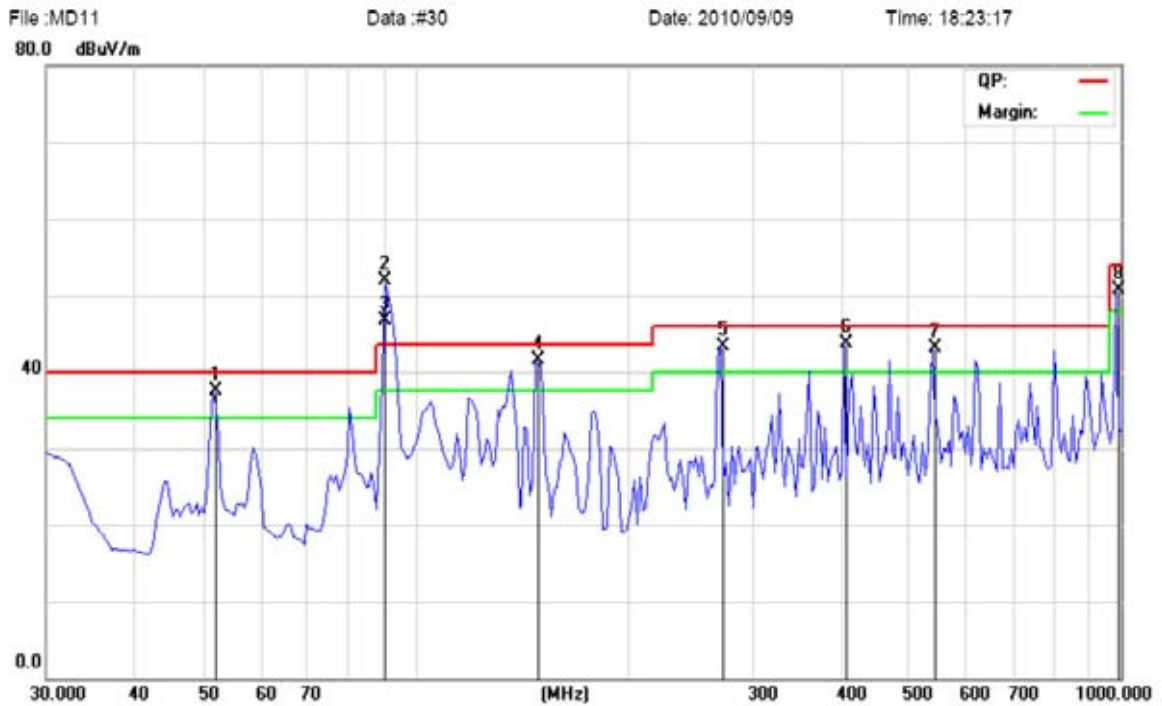
K. General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: 89.9MHz& AV-IN

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
51.825	37.47	V	40.00
148.825	41.48	V	43.50
272.500	43.33	V	46.00
405.875	43.67	V	46.00
541.675	43.07	V	46.00
985.450	50.69	V	54.00

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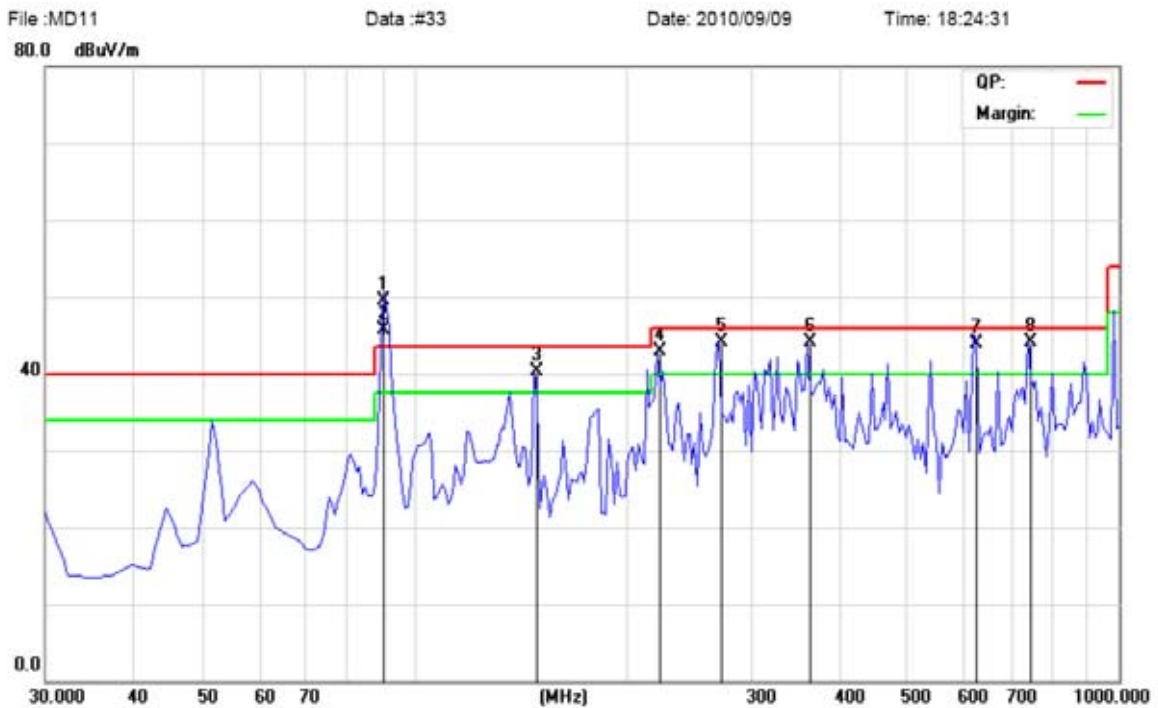
L. General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: 89.9MHz& AV-IN

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
148.825	40.33	H	43.50
221.575	42.87	H	46.00
272.500	44.03	H	46.00
362.225	44.13	H	46.00
626.550	43.96	H	46.00
742.950	44.20	H	46.00

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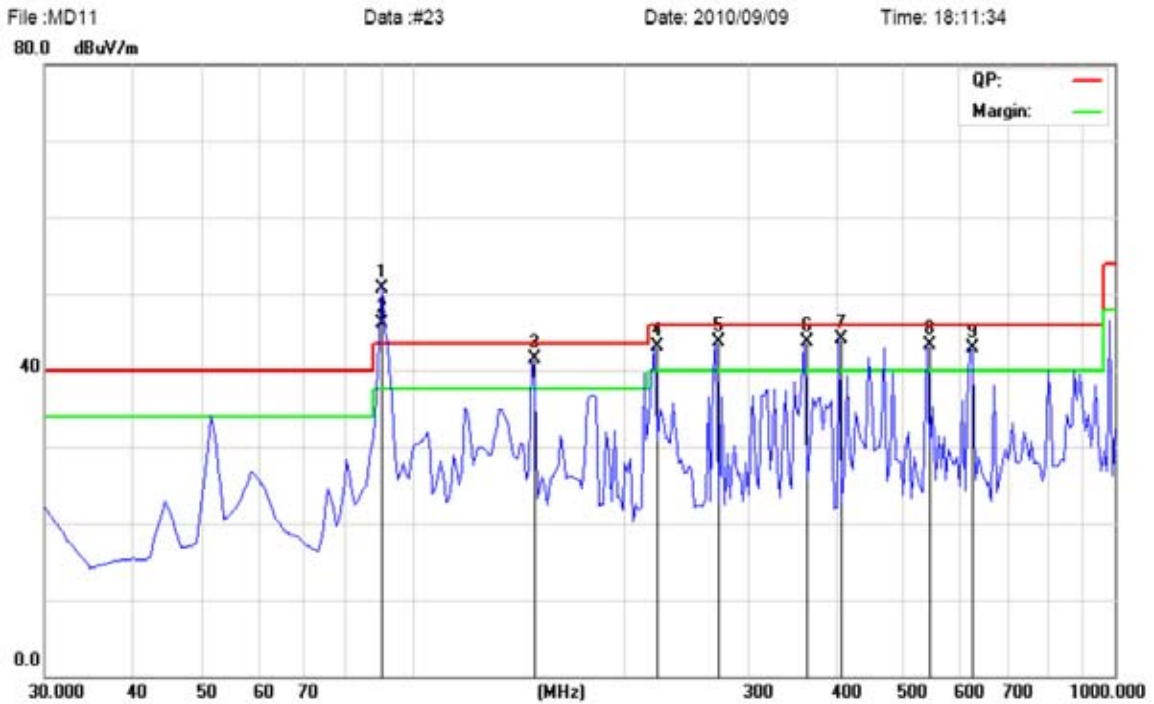
M. **General Radiated Emission Data and Harmonics Radiated Emission Data**

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

EUT set Condition: 89.9MHz& Play USB

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
148.825	41.59	H	43.50
221.575	43.13	H	46.00
272.500	43.75	H	46.00
362.225	43.25	H	46.00
405.875	44.08	H	46.00
541.675	43.26	H	46.00
626.550	42.98	H	46.00

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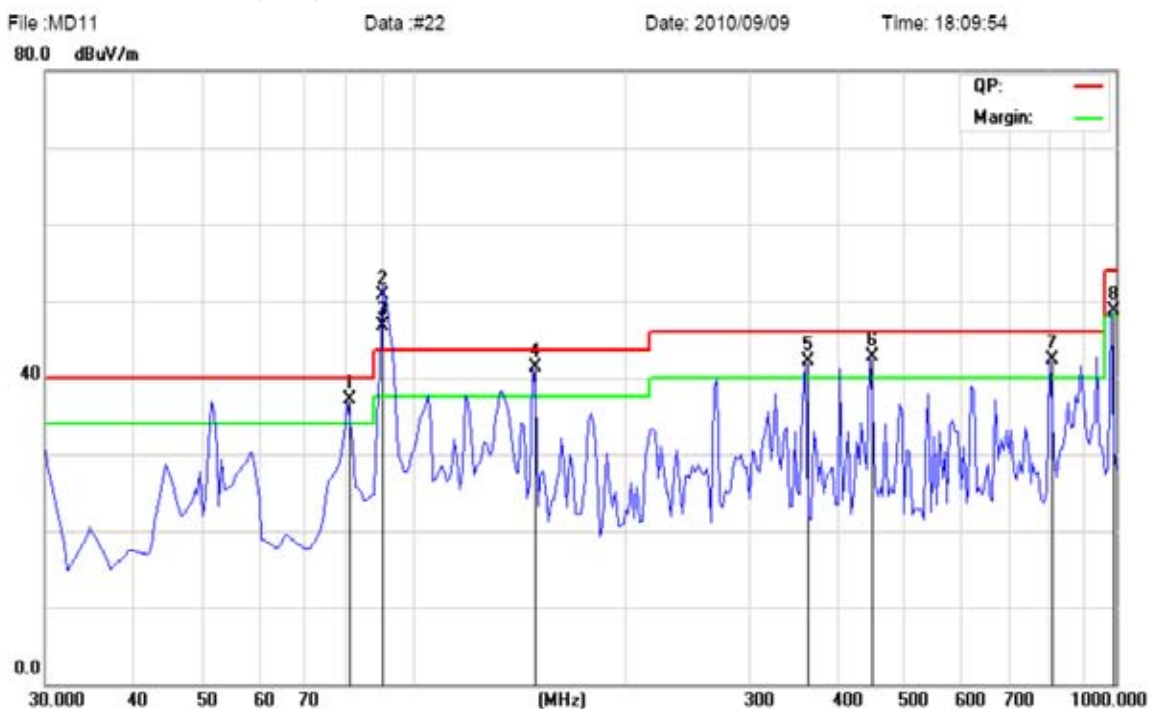
N. **General Radiated Emission Data and Harmonics Radiated Emission Data**

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

EUT set Condition: 89.9MHz& Play USB

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
51.825	37.10	V	40.00
148.825	41.39	V	43.50
362.225	42.05	V	46.00
449.525	42.68	V	46.00
808.420	42.30	V	46.00
985.450	48.80	V	54.00

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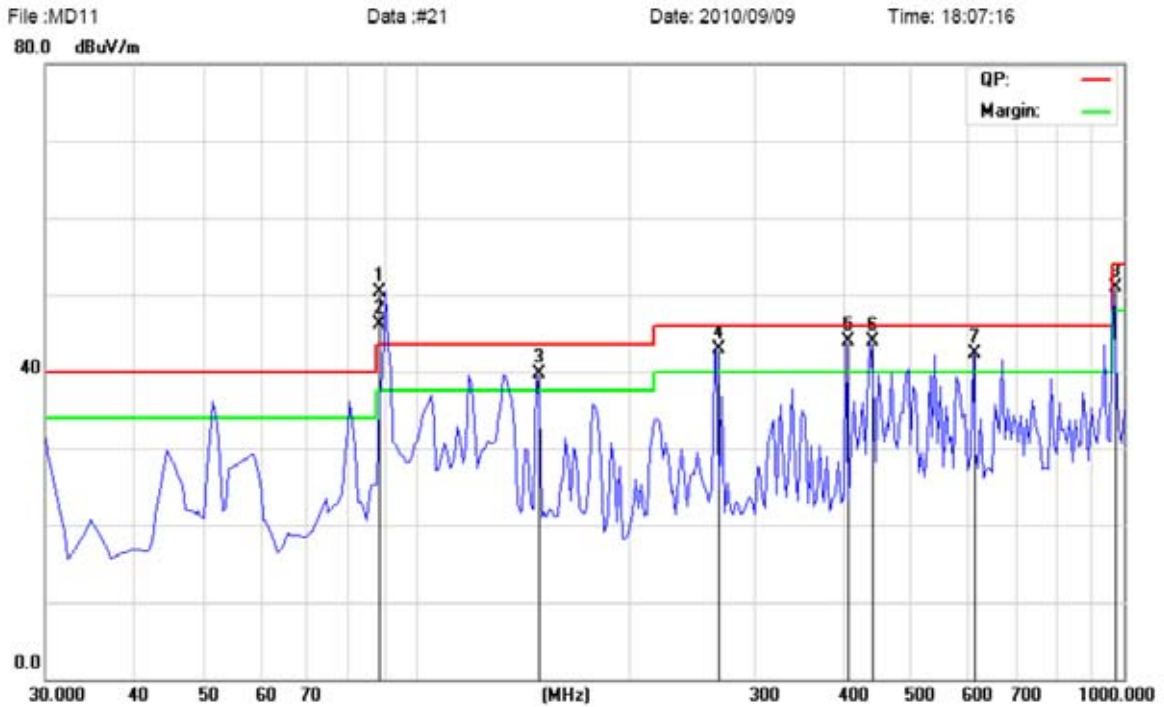
O. **General Radiated Emission Data and Harmonics Radiated Emission Data**

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

EUT set Condition: 88.5MHz& Play USB

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
148.830	39.72	V	43.50
267.650	42.96	V	46.00
405.875	43.81	V	46.00
442.250	43.88	V	46.00
616.850	42.40	V	46.00
970.900	50.82	V	54.00

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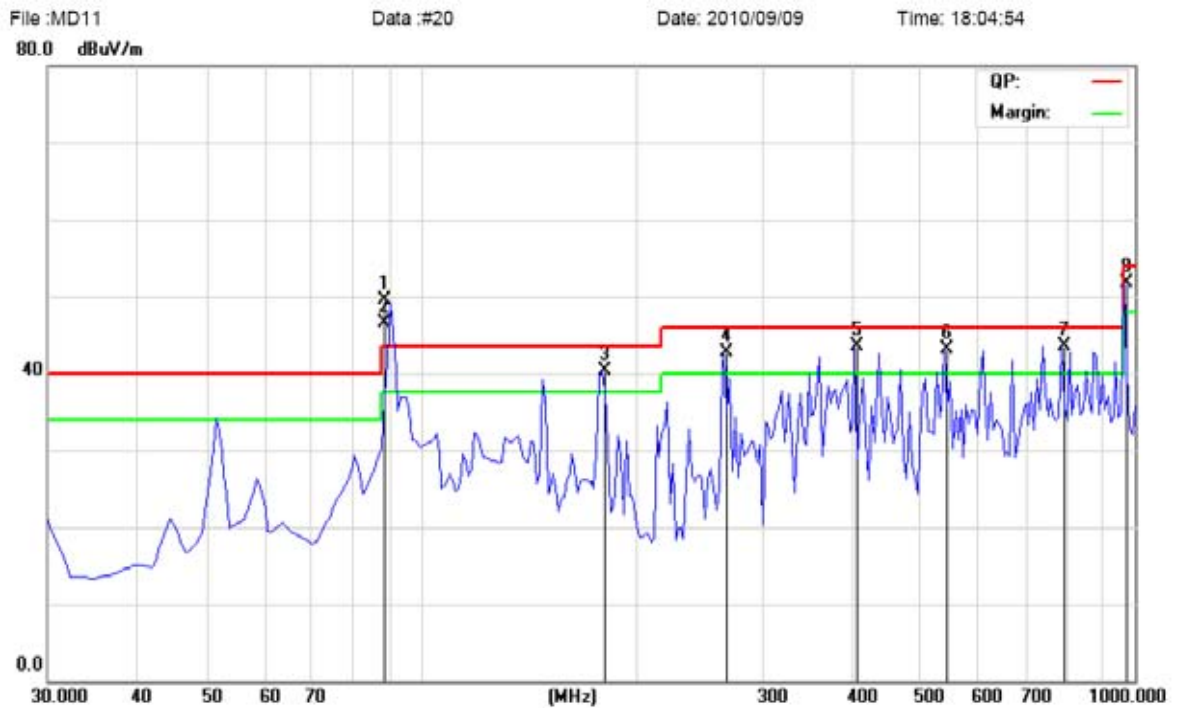
P. General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: 88.5MHz& Play USB

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
180.350	40.39	H	43.50
267.650	42.61	H	46.00
405.875	43.47	H	46.00
541.675	43.17	H	46.00
793.875	43.58	H	46.00
970.900	51.75	H	54.00

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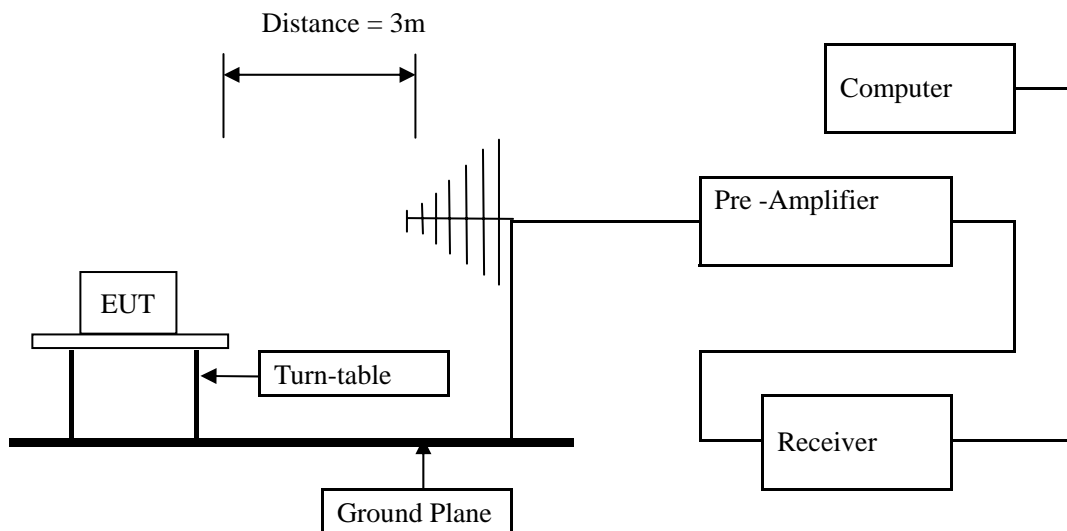


7. Band Edge

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz , peak values with a resolution bandwidth of 1 MHz . Measurements were made at 3 meters.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (5) The antenna polarization : Vertical polarization and Horizontal polarization.

7.2 Radiated Test Setup



For the actual test configuration , please refer to the related items – Photos of Testing

7.3 Configuration of The EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.3 of this report.

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7.5 Band Edge Limit

(1) Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the Operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz.

(2) The field strength of any emissions within the permitted 200 kHz band shall not exceed 250 microvolts/meter At 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an Average detector. The provisions in Section 15.35 for limiting peak emissions apply.

(3) Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated Emission limits specified in Section 15.209(a) (see Section 15.205(c)).

EUT Operating Condition

Set the volume to the maximum on the EUT and play a DVD disc to produce a typical signal, but not a 1kHz signal

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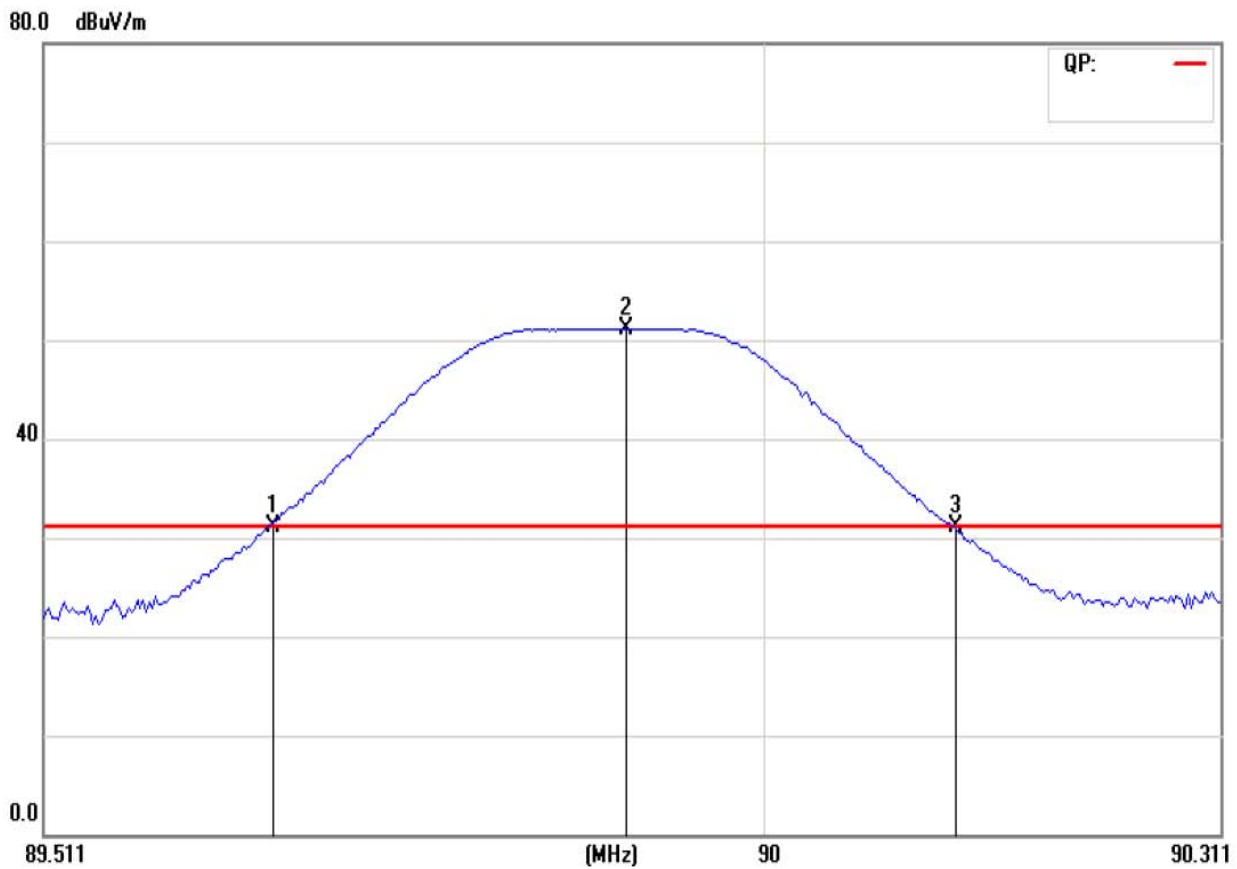


7.6 Band Edge Test Result

Product:	DVD Player with flipdown monitor	Test Mode:	89.9MHz&Play DVD
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	12V	Humidity:	56%
20dB Bandwidth	464kHz	Test Result:	Pass

Test Figure:

File :MD11 Data :#48 Date: 10/09/11/ Time: 10/13/22



Frequency (MHz)	Level@3m (dB μ V/m)
89.665	31.02
89.905	51.02
90.129	31.02

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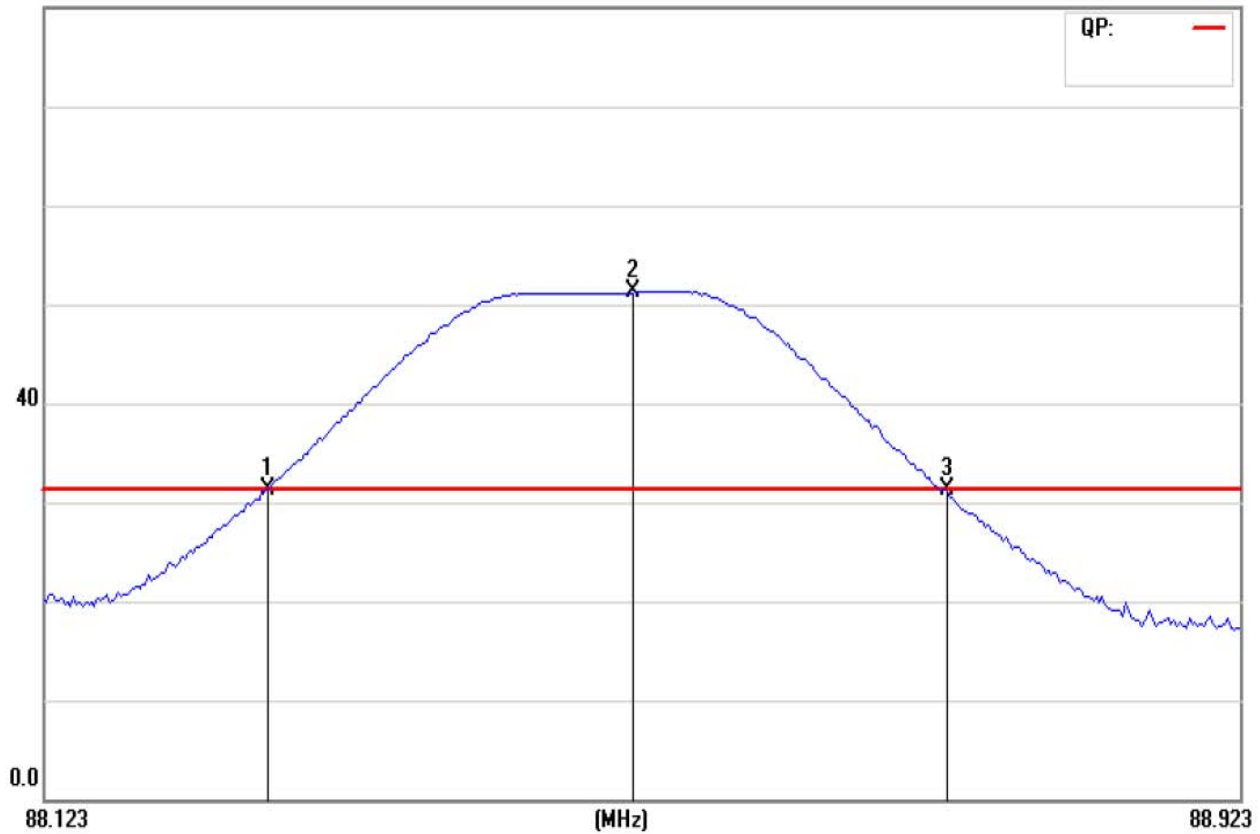


7.6 Band Edge Test Result

Product:	DVD Player with flipdown monitor	Test Mode:	88.5MHz&Play DVD
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	12V	Humidity:	56%
20dB Bandwidth	452kHz	Test Result:	Pass

Test Figure:

File :MD11 Data :#51 Date: 10/09/11/ Time: 10/17/53
 80.0 dBuV/m



Frequency (MHz)	Level@3m (dB μ V/m)
88.272	31.33
88.515	51.33
88.724	31.33

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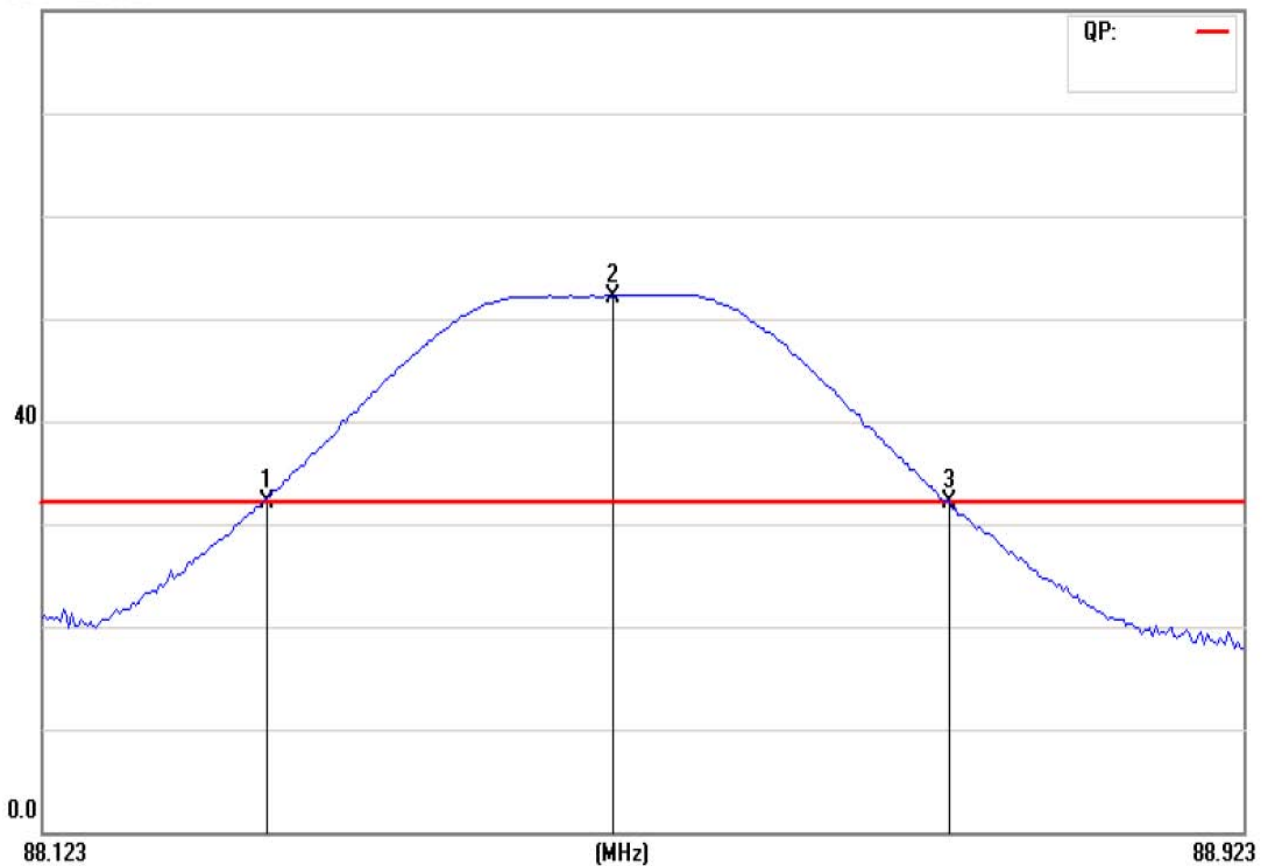


7.6 Band Edge Test Result

Product:	DVD Player with flipdown monitor	Test Mode:	88.5MHz&Play USB
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	12V	Humidity:	56%
20dB Bandwidth	456kHz	Test Result:	Pass

Test Figure:

File :MD11 Data :#52 Date: 10/09/11/ Time: 10/19/45
 80.0 dBuV/m



Frequency (MHz)	Level@3m (dB μ V/m)
88.270	32.10
88.501	52.10
88.726	32.08

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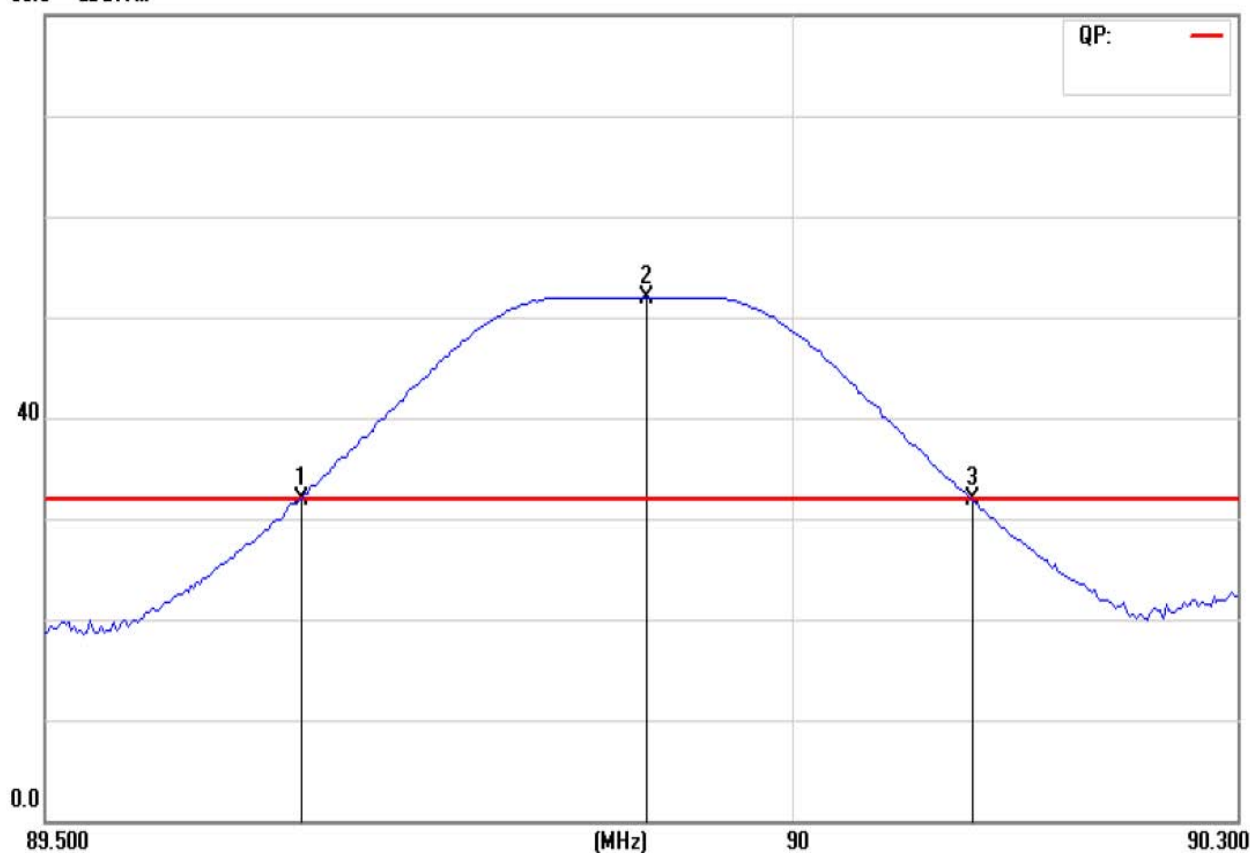
7.6 Band Edge Test Result

Product:	DVD Player with flipdown monitor	Test Mode:	89.9MHz&Play USB
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	12V	Humidity:	56%
20dB Bandwidth	450kHz	Test Result:	Pass

Test Figure:

File :MD11 Data :#55 Date: 10/09/11/ Time: 10/25/12

80.0 dBuV/m



Frequency (MHz)	Level@3m (dB μ V/m)
89.670	31.87
89.902	51.87
90.120	31.87

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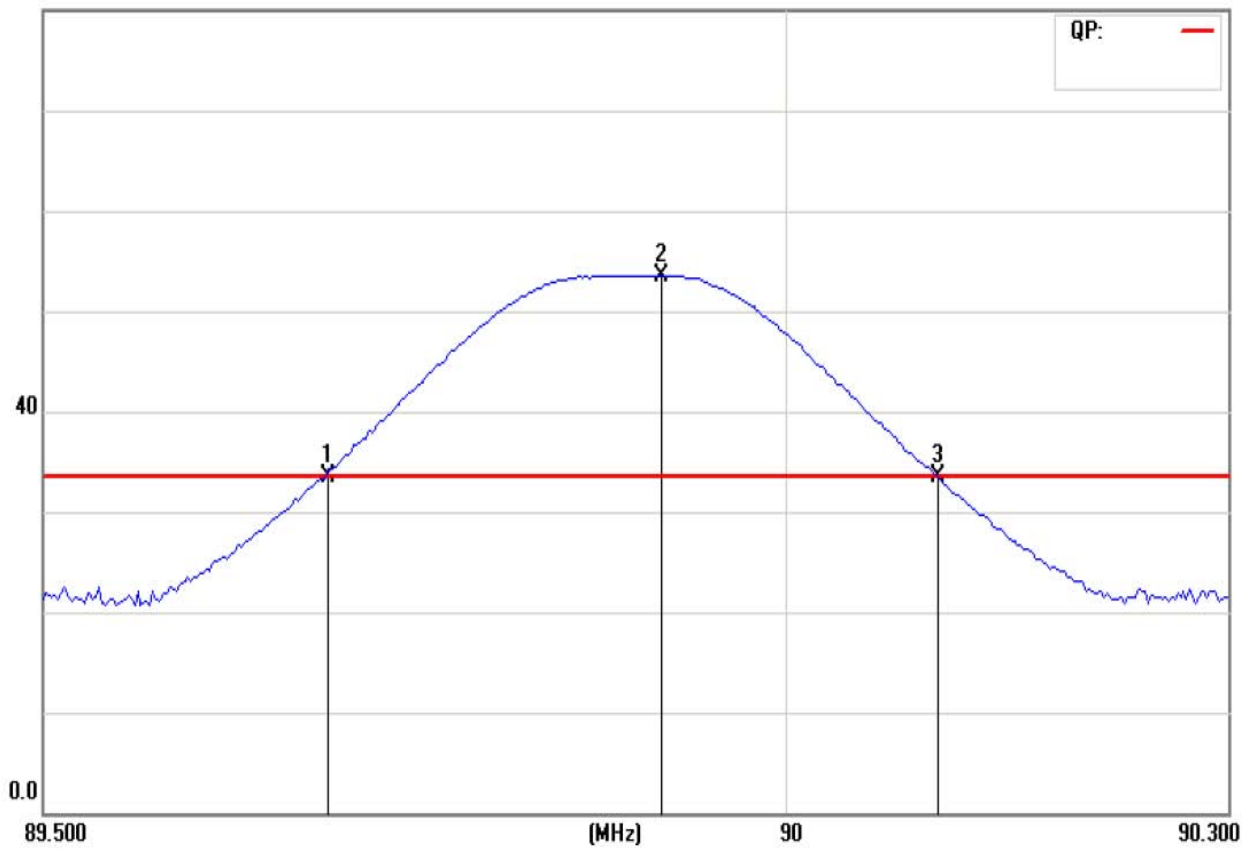


7.6 Band Edge Test Result

Product:	DVD Player with flipdown monitor	Test Mode:	89.9MHz&AV-IN
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	12V	Humidity:	56%
20dB Bandwidth	412kHz	Test Result:	Pass

Test Figure:

File :MD11 Data :#56 Date: 10/09/11/ Time: 10/28/00
 80.0 dBuV/m



Frequency (MHz)	Level@3m (dB μ V/m)
89.690	33.52
89.916	53.52
90.102	33.52

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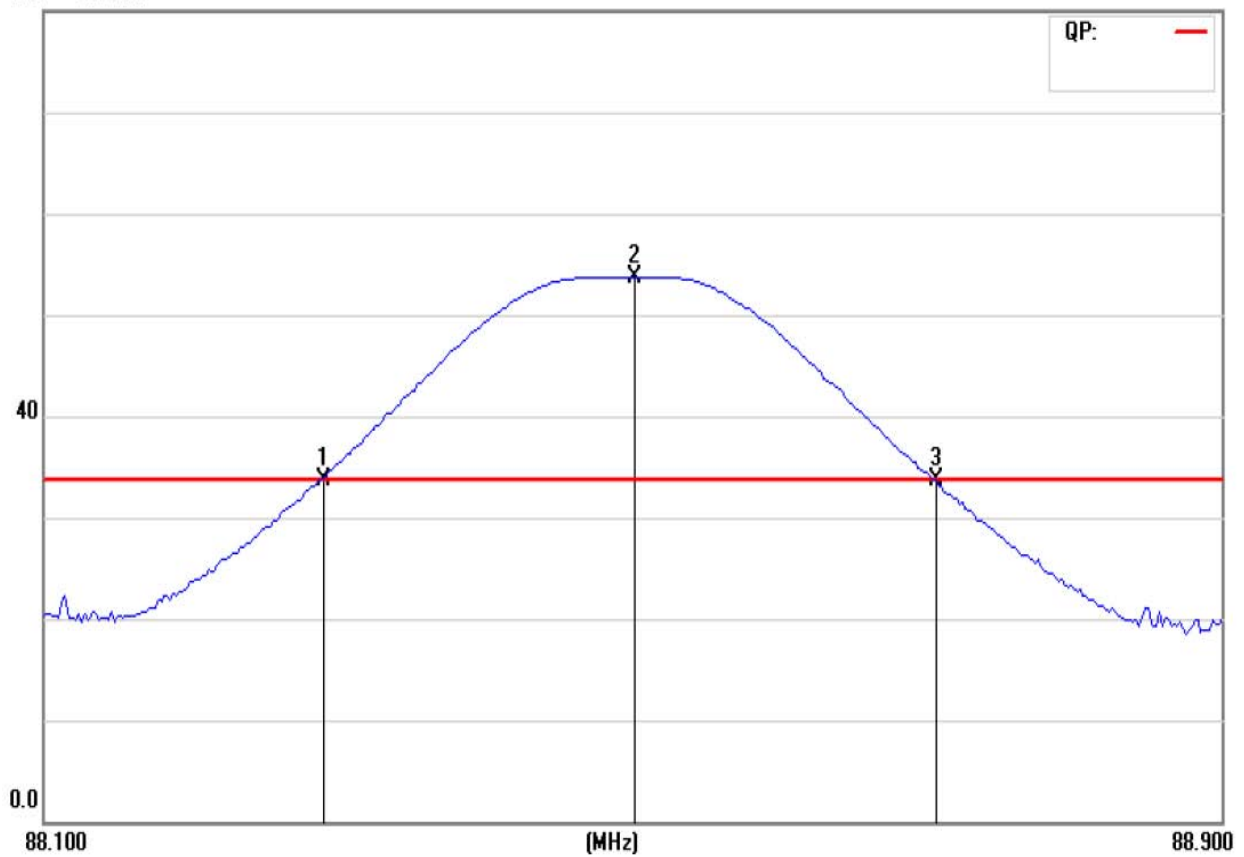


7.6 Band Edge Test Result

Product:	DVD Player with flipdown monitor	Test Mode:	88.5MHz& AV-IN
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	12V	Humidity:	56%
20dB Bandwidth	416kHz	Test Result:	Pass

Test Figure:

File :MD11 Data :#59 Date: 10/09/11/ Time: 10/33/40
 80.0 dBuV/m



Frequency (MHz)	Level@3m (dB μ V/m)
88.288	33.74
88.501	53.74
88.704	33.74

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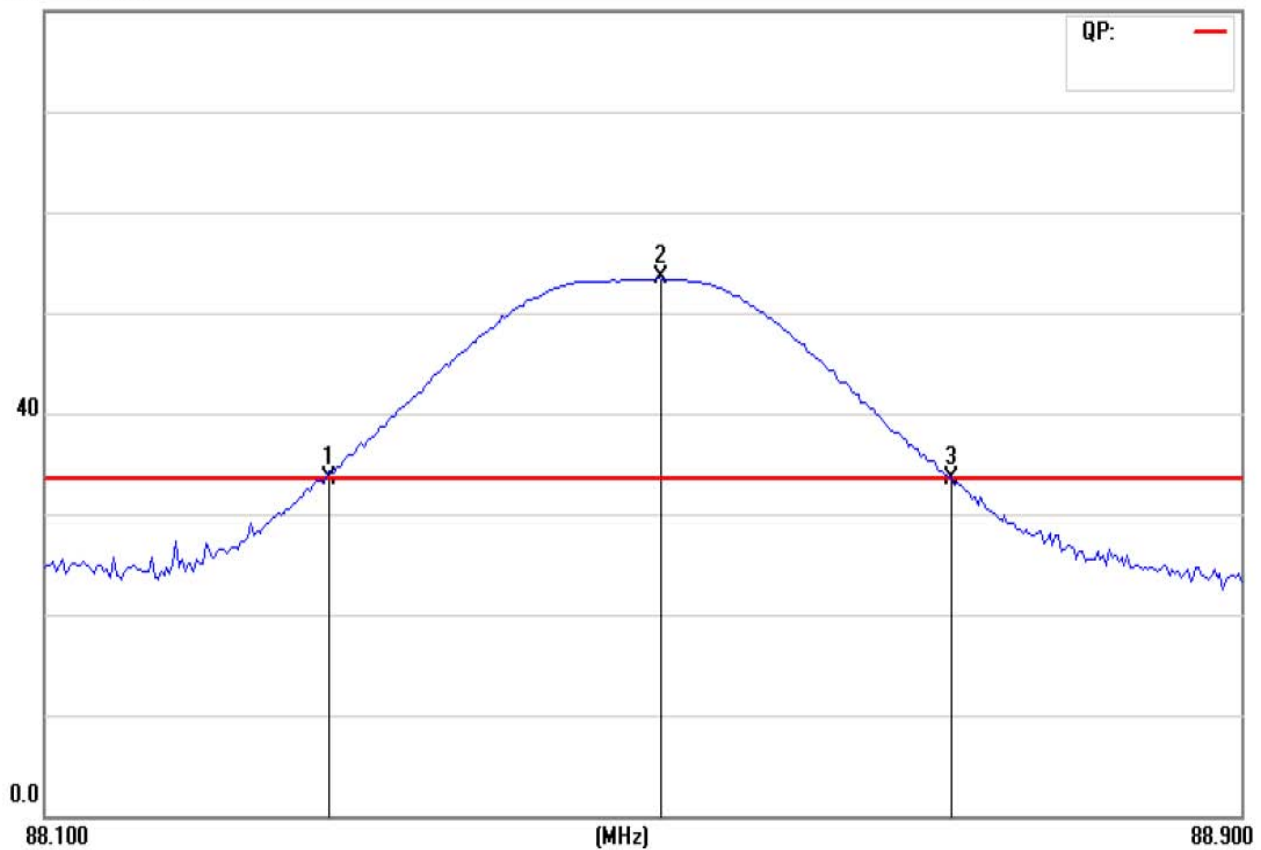


7.6 Band Edge Test Result

Product:	DVD Player with flipdown monitor	Test Mode:	88.5MHz & SD
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	12V	Humidity:	56%
20dB Bandwidth	417kHz	Test Result:	Pass

Test Figure:

File :MD11 Data :#61 Date: 10/09/11/ Time: 10/36/51
 80.0 dBuV/m



Frequency (MHz)	Level@3m (dB μ V/m)
88.288	33.41
88.510	53.41
88.705	33.41

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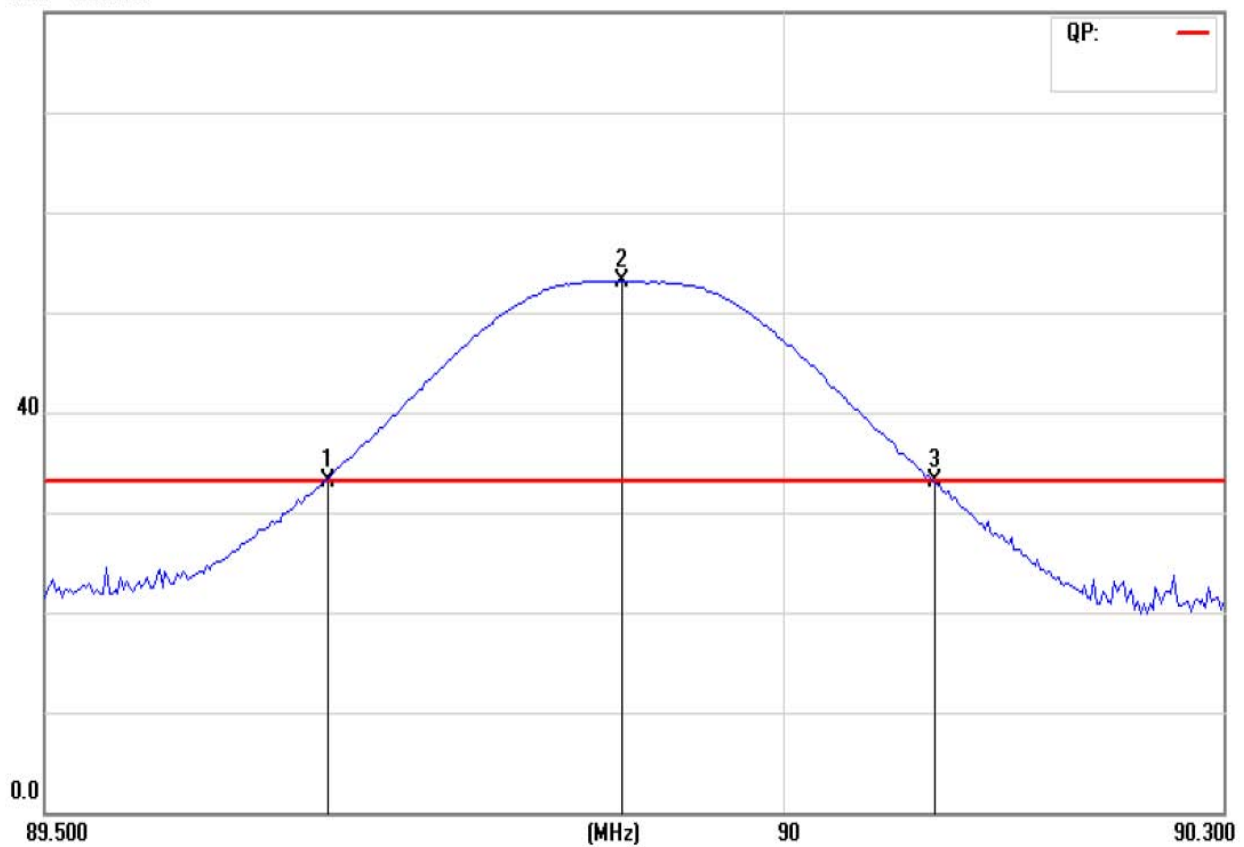


7.6 Band Edge Test Result

Product:	DVD Player with flipdown monitor	Test Mode:	89.9MHz& SD
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	12V	Humidity:	56%
20dB Bandwidth	412kHz	Test Result:	Pass

Test Figure:

File :MD11 Data :#63 Date: 10/09/11/ Time: 10/39/39
 80.0 dBuV/m



Frequency (MHz)	Level@3m (dB μ V/m)
89.690	33.07
89.891	53.07
90.102	33.07

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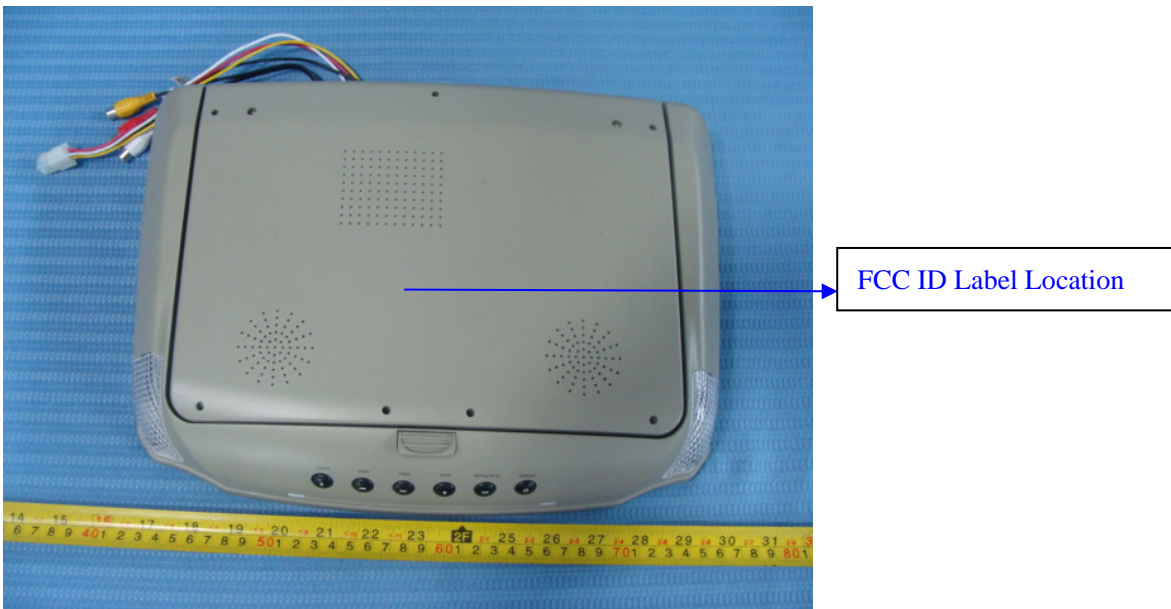
8.0 FCC ID Label

FCC ID: VUDAUTOPRO2010A

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:



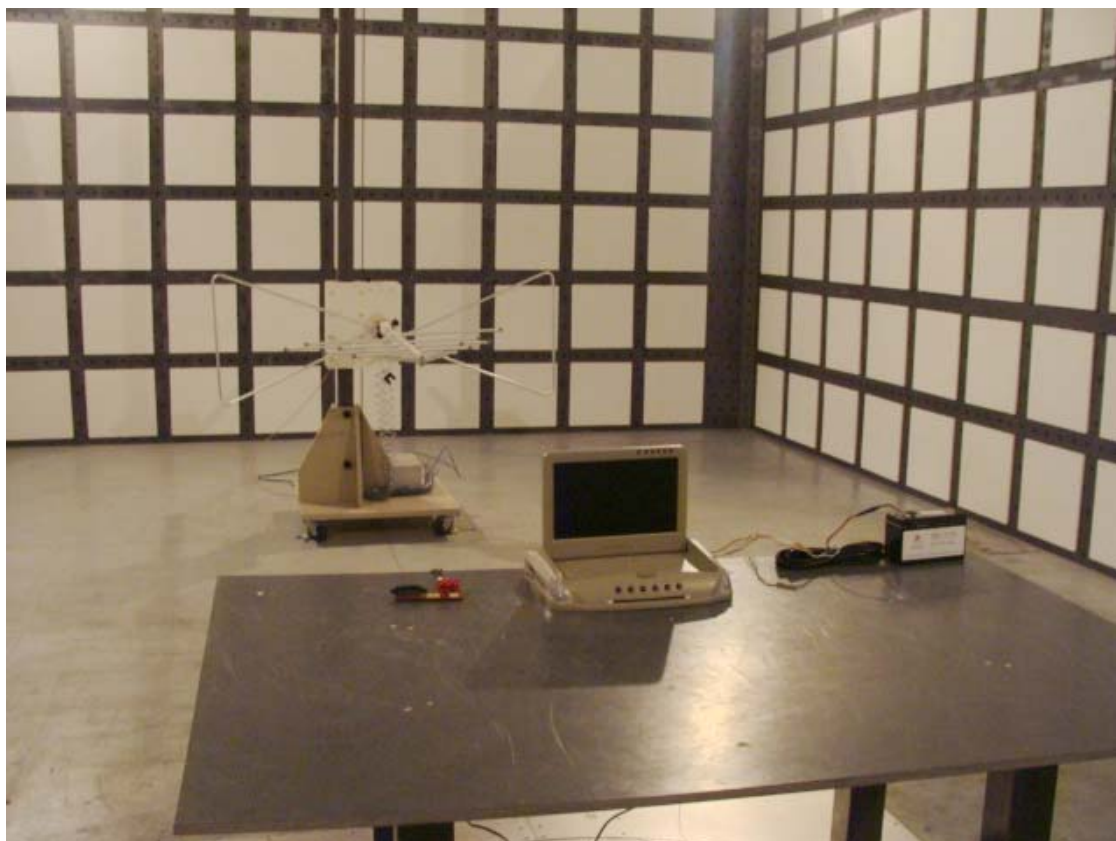
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9.0 Photo of testing

9.1 Conducted test View—N/A

9.2 Radiated emission test view



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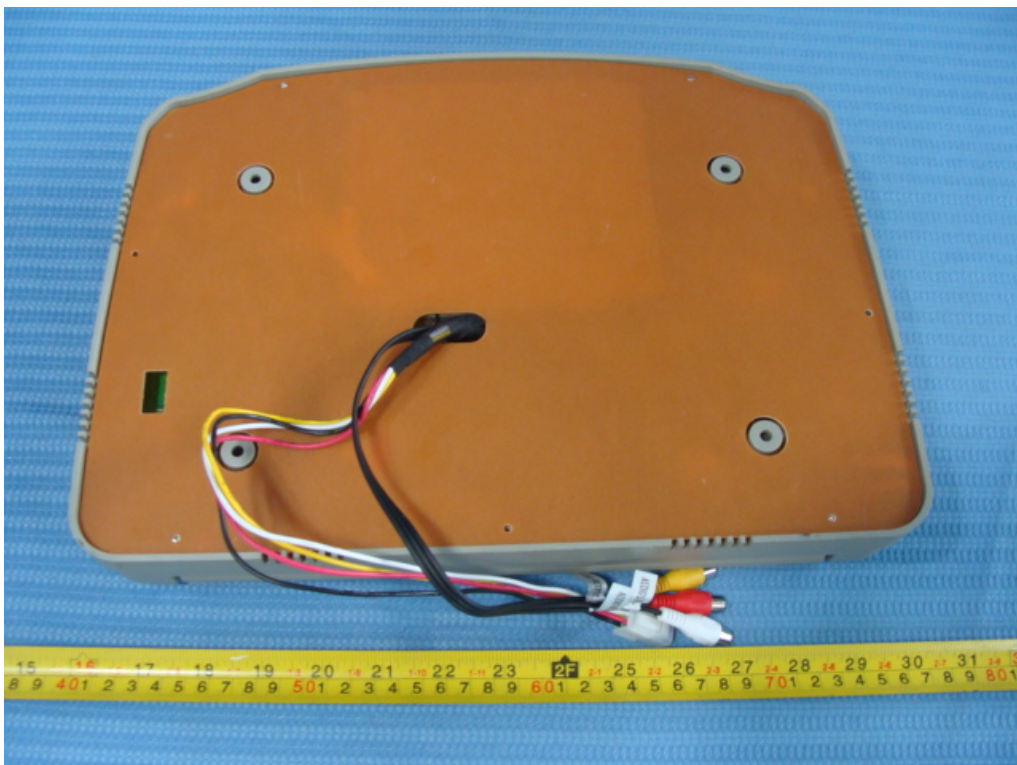
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9.3 Photo for the EUT

External t View



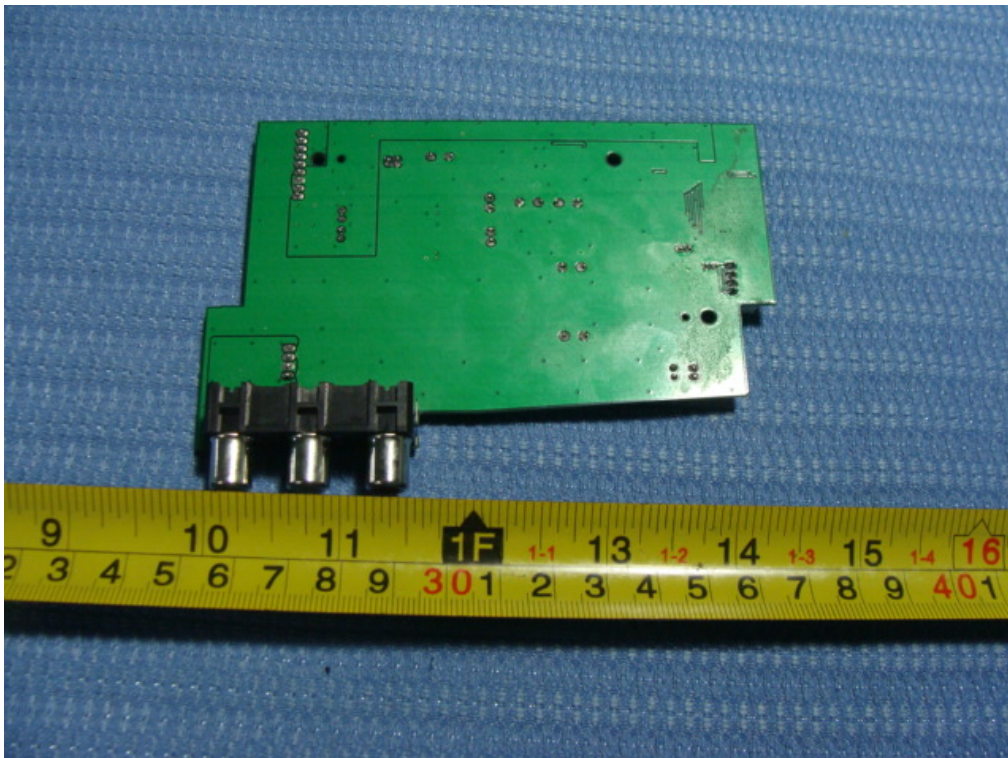
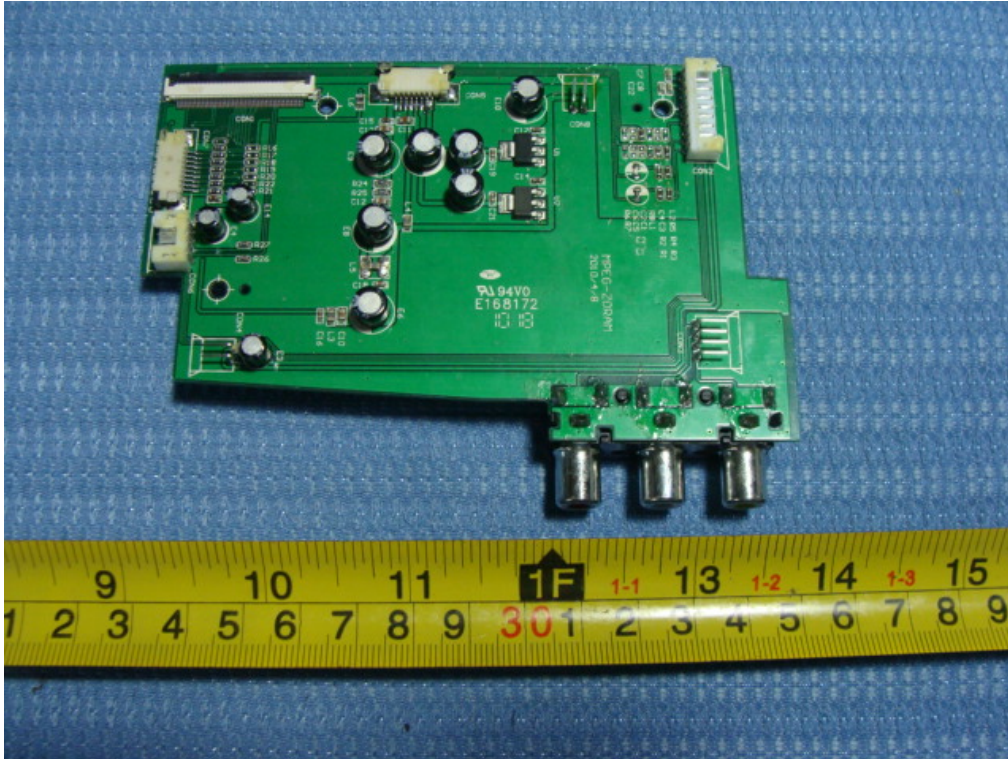
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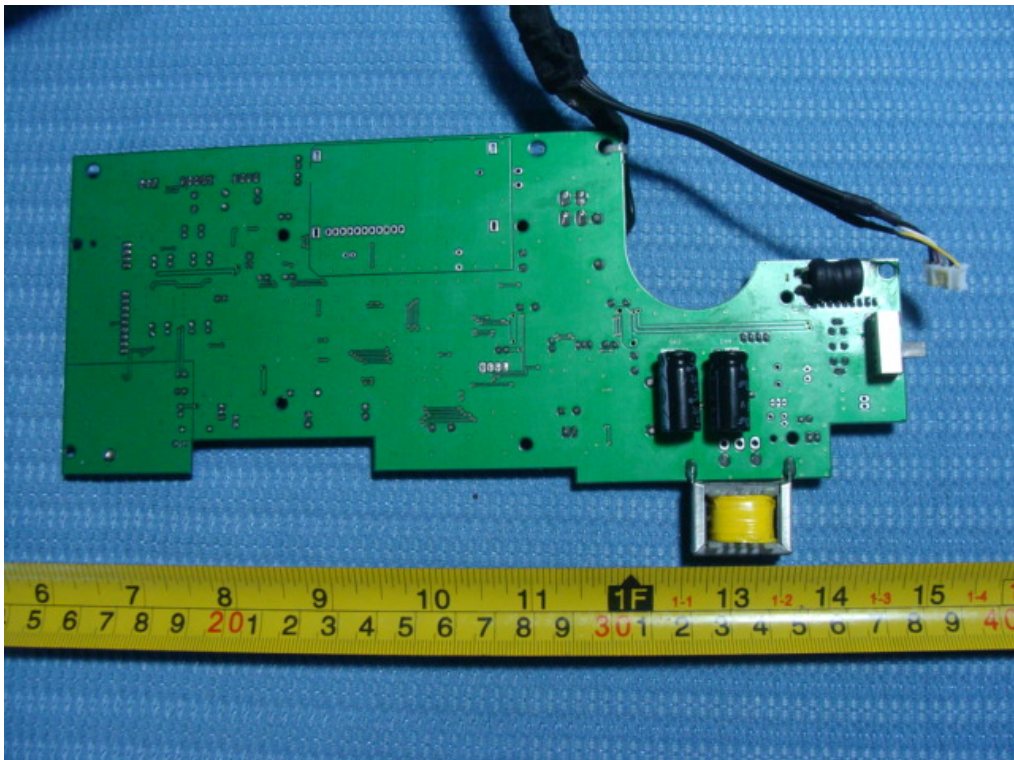
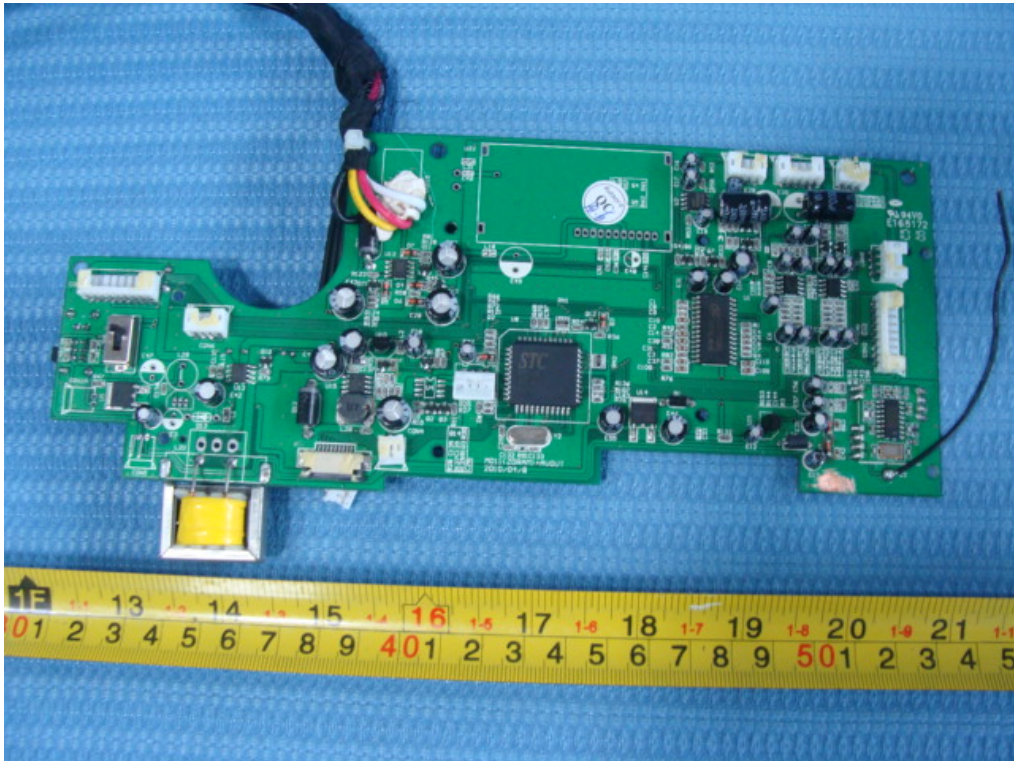
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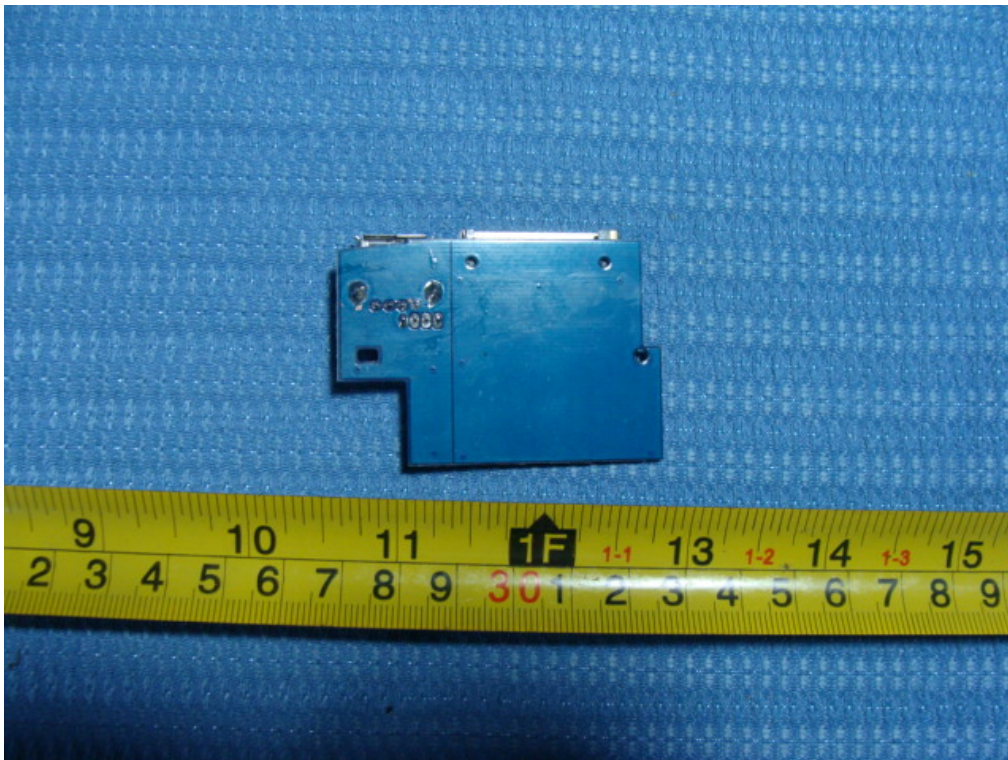
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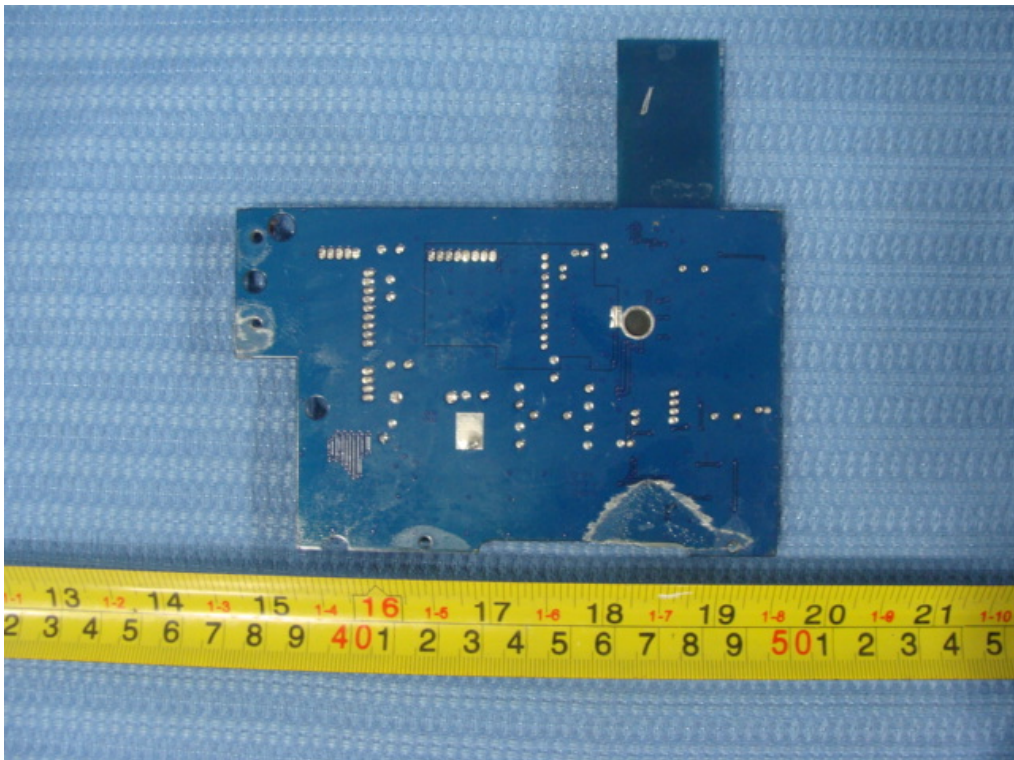
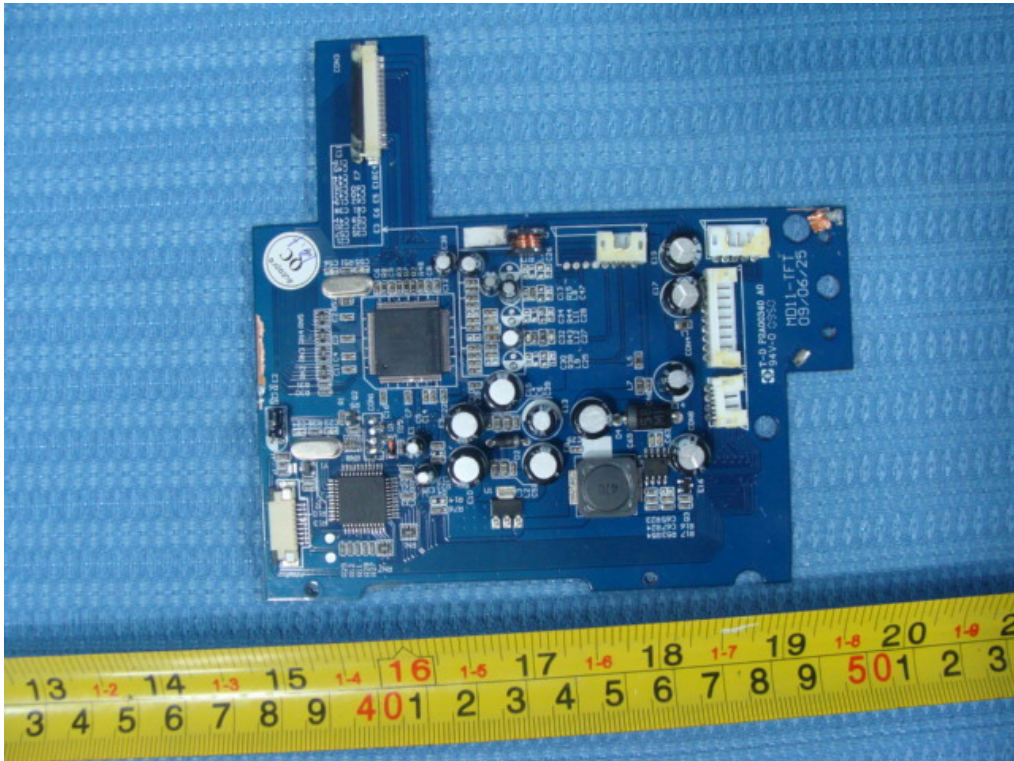
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Interior View



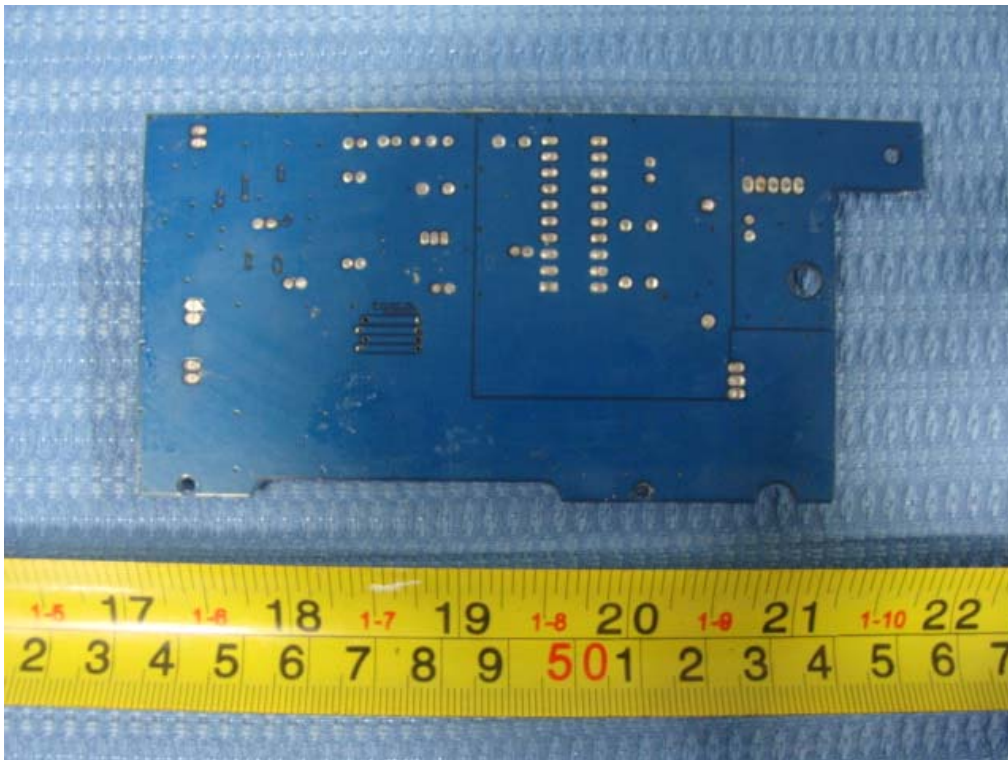
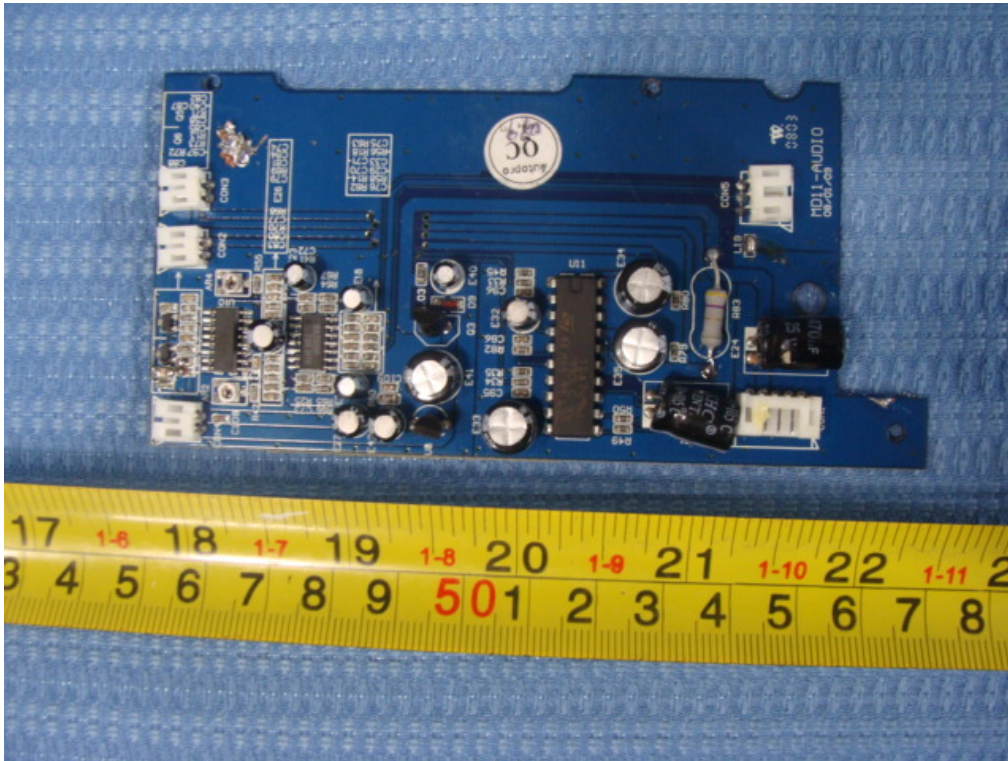
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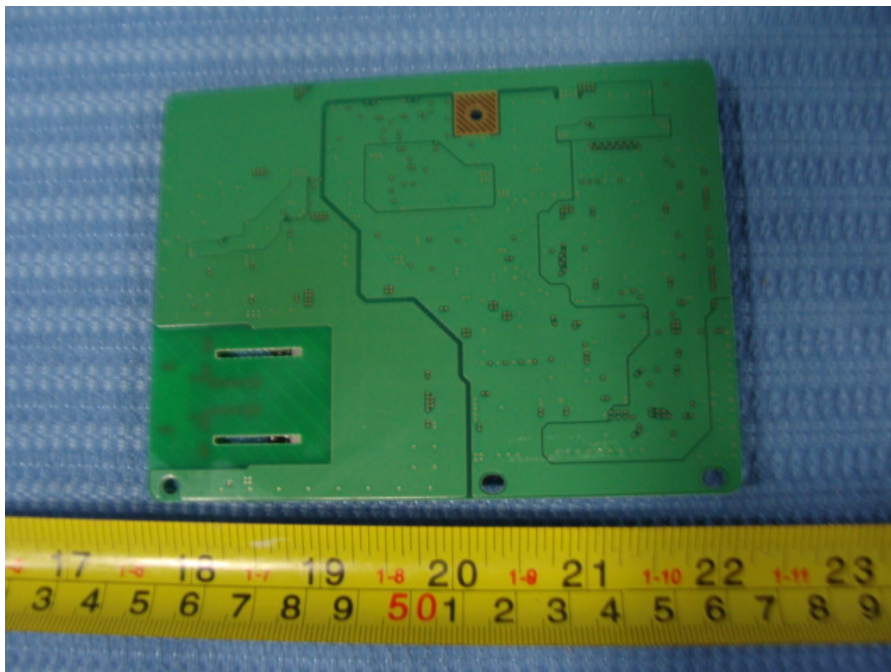
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Interior View



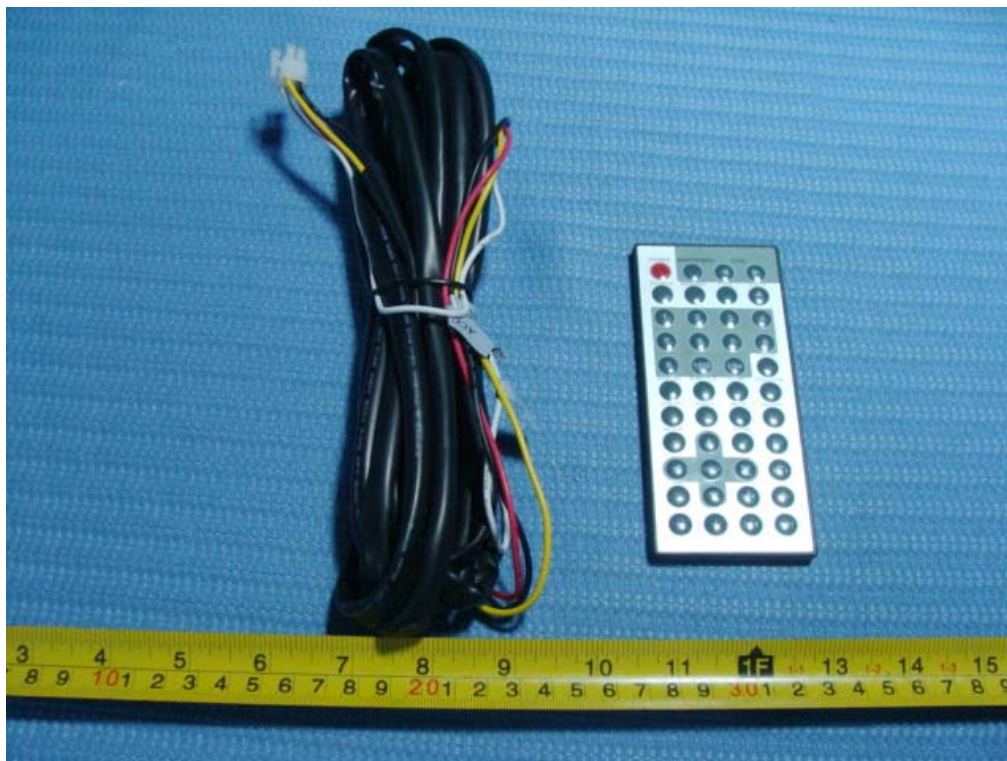
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Interior View



End of the report

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