

FCC CLASS B CONFORMITY REPORT

Product Name : HD MEDIA WONDER
Model Number : MP1000
Trade Name : DIAMOND
FCC ID : FN6MP1000
Report Number : SZEE1006101140321
Date : Jun 24, 2010

Standards	Results
<input checked="" type="checkbox"/> FCC Part 15: 2009	PASS

Prepared for:
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CENTRE TESTING INTERNATIONAL CORPORATION

Building C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen

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(Note: N/A means not applicable)

1. CERTIFICATION OF CONFORMITY

Applicant & Address: BEST DATA PRODUCTS INC
9650 DE SOTO AVENUE CHARTSWORTH CA 91311 USA

Manufacturer & Address: BEST DATA PRODUCTS INC
9650 DE SOTO AVENUE CHARTSWORTH CA 91311 USA

Type of Test: FCC Part 15 SUBPART B

FCC ID: FN6MP1000

Equipment Under Test: HD MEDIA WONDER

Model Name: MP1000

Technical Date: DC 5V/2.4A by Adapter

Serial Number: N/A

Date of test: Jun. 11, 2010 to Jun. 21, 2010

Condition of Test Sample: Normal

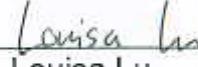
The above equipment was tested by Centre Testing International Corporation for compliance with the requirements set forth in the FCC Rules and Regulations Part 15, Subpart B and the measurement procedure according to ANSI C63.4.

The test results of this report relate only to the tested sample identified in this report.

Prepared by :


Saky Yan

Reviewed by :


Louisa Lu

Approved by :


Jim Zhang

Manager

Date

: Jun. 24, 2010



2. TEST SUMMARY

The EUT has been tested according to the following specifications:

EMISSION			
Standard	Test Type	Result	Remark
FCC Part 15	Conducted emission at AC power port	PASS	See clause 6 in this report
	Radiated emission	PASS	See clause 7 in this report

3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement items	Value
Conducted emission	3.2 dB
Radiated emission	4.6 dB

4. FACILITIES AND ACCREDITATIONS

4.1 TEST FACILITY

Centre Testing International Corporation

Building C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen, Guangdong, China

4.2 TEST EQUIPMENT LIST

Instrumentation: The following list contains equipments used at CTI for testing. The calibrations of the measuring instruments, including any accessories that may effect such calibration, are checked frequently to assure their accuracy. Adjustments are made and correction factors applied in accordance with instructions contained in the manual for the measuring instrument.

Table 1: List of Test and Measurement Equipment

Equipment	Manufacturer	Model Number	Serial Number	Last Calibration Date	Next Calibration Date
Shielding Room No. 1 —AC Power Line Conducted Emissions Measurement					
Receiver	R&S	ESCI	100435	01/29/2009	08/25/2010
LISN	R&S	ENV216	100098	06/13/2009	04/09/2011
3M Semi-anechoic Chamber — Radiated Emission Test Site					
Spectrum Analyzer	Agilent	E4443A	MY46185649	04/09/2010	04/09/2011
Biconilog Antenna	A.H.System	SAS-521-2	487	07/31/2009	07/31/2011
3M Chamber & Accessories	ETS-LINDGREN	FACT-3	N/A	05/11/2009	05/10/2011
Horn Antenna	ETS-LINDGREN	3117	00057407	09/11/2009	09/11/2011

Microwave Preamplifier	Agilent	8449B	3008A02425	08/25/2009	08/25/2010
Multi device Controller	ETS-LINGREN	2090	00057230	08/25/2009	08/25/2010

4.3 LABORATORY ACCREDITATIONS AND LISTINGS

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

5. SETUP OF EQUIPMENT UNDER TEST

5.1 SETUP CONFIGURATION OF EUT

1. See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.
2. Make sure EUT work normally during the whole test.

5.2 SUPPORT EQUIPMENT

Table 2: Test Auxiliary Equipments

No.	Device Type	Brand	Model	Series No.	Data Cable	Power Cord
1.	PC	IBM	8143	BD-241	N/A	Un-shielded1.2M
2.	Display	Lenovo	9205-AB6	VK-KZ133	Un-shielded 1M	Un-shielded1 M
3.	Mouse	IBM	M028UOL	23-468157	Un-shielded1.2M	N/A
4.	Keyboard	IBM	89P8300	02284699	Un-shielded1.2M	N/A
5.	LCD TV	PHILIPS	32PF7320193	BZ1A0627401425	N/A	1.5M

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

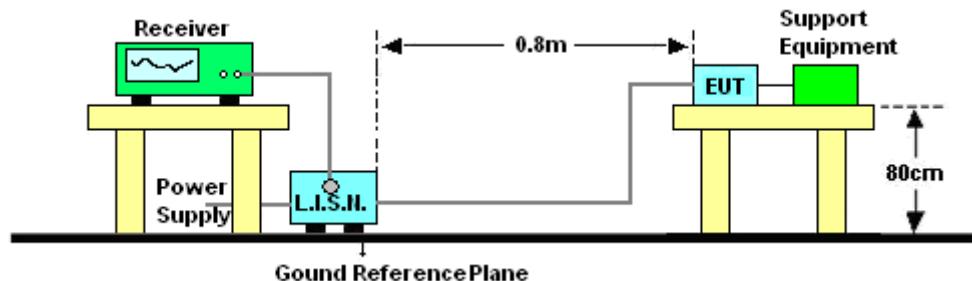
6. AC POWER LINE CONDUCTED EMISSIONS MEASUREMENT

6.1 LIMITS

Frequency (MHz)	Conducted Limit (dBuV) – Class B Digital Device	
	Q.P.	Average(dBuV)
0.150 – 0.5	66-56	56-46
0.5 – 5	56	46
5 - 30	60	50

Note: the tighter limit applies at the band edges.

6.2 BLOCK DIAGRAM OF TEST SETUP

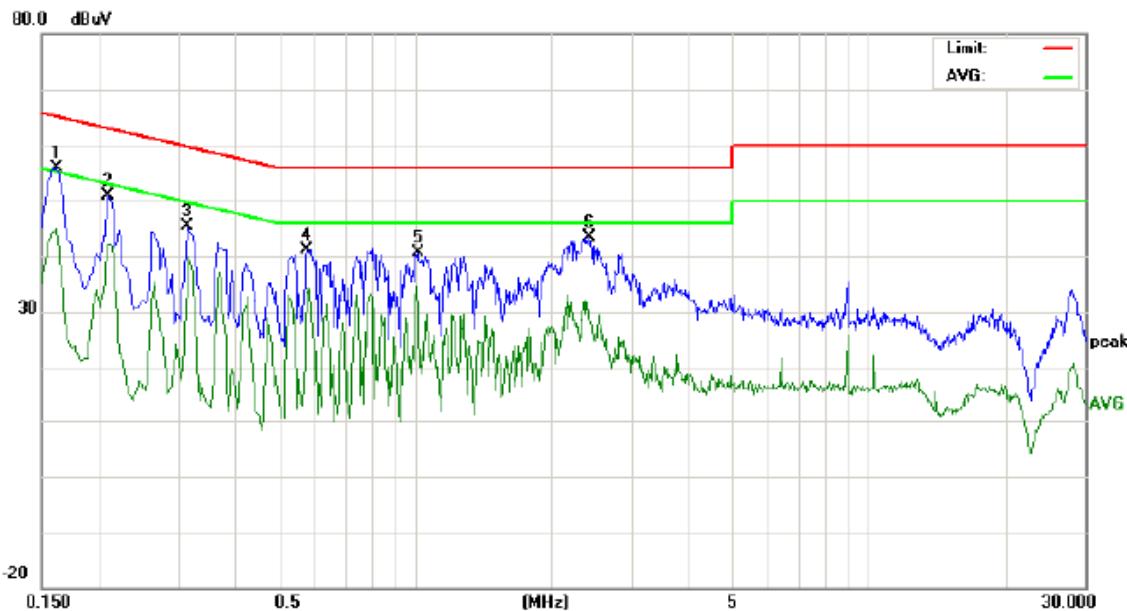


6.3 TEST PROCEDURE

- The EUT was placed on a nonconductive table above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N.).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from EUT in all power lines in the full band.
- For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

6.4 TEST RESULT

L:



Site site #1 Phase: **L1** Temperature: 24

Limit: FCC Class B Conduction (QP) Power: AC 120V/60Hz Humidity: 53 %

EUT: HD MEDIA WONDER

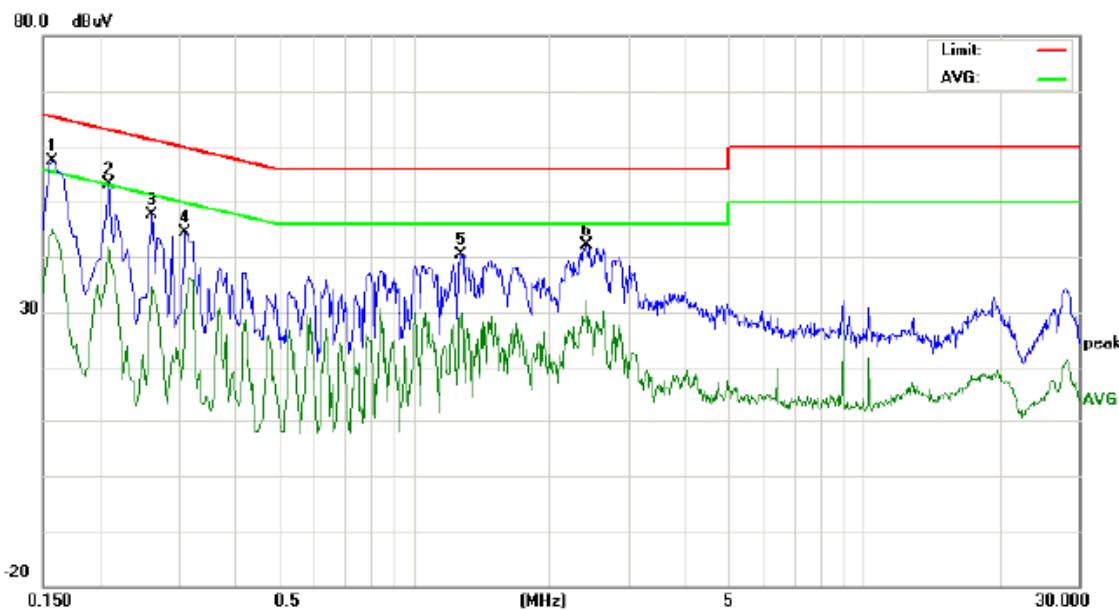
M/N: MP1000

Mode: USB Playing

Note: HDMI Output

No.	Freq.	Reading_Level				Measurement				Limit				Margin	
		MHz	Peak	QP	AVG	Correct Factor	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.1620	54.22	51.58	41.51	1.68	55.90	53.26	43.19	65.36	55.36	-12.10	-12.17	P		
2	0.2100	48.63		40.02	2.16	50.79		42.18	63.20	53.20	-12.41	-11.02	P		
3	0.3140	43.59		32.77	1.73	45.32		34.50	59.86	49.86	-14.54	-15.36	P		
4	0.5780	39.64		32.75	1.54	41.18		34.29	56.00	46.00	-14.82	-11.71	P		
5	1.0140	39.17		28.04	1.53	40.70		29.57	56.00	46.00	-15.30	-16.43	P		
6	2.4180	42.82		29.67	0.68	43.50		30.35	56.00	46.00	-12.50	-15.65	P		

N:



Site: site #1

Phase: **N** Temperature: 24

Limit: FCC Class B Conduction (QP)

Power: AC 120V/60Hz

Humidity: 53 %

EUT: HD MEDIA WONDER

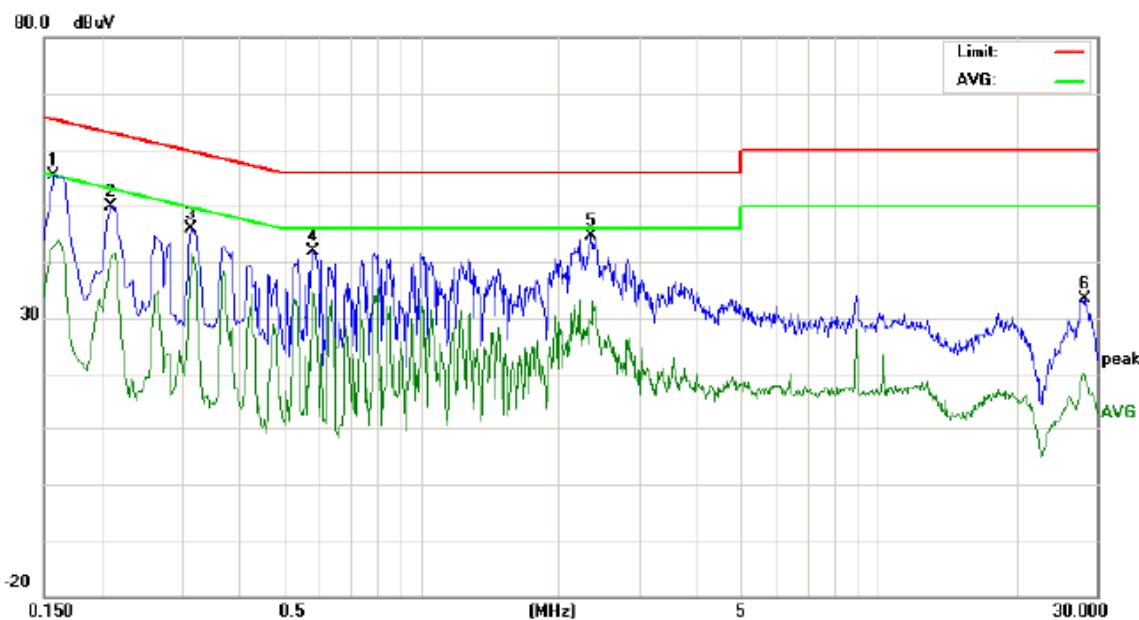
M/N: MP1000

Mode: USB Playing

Note: HDMI Output

No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)			Margin (dB)		
		MHz	Peak	QP	Avg	Peak	QP	Avg	QP	Avg	QP	Avg	P/F	Comment
1	0.1580	55.85	53.20	43.57	1.62	57.47	54.82	45.19	65.56	55.56	-10.74	-10.37	P	
2	0.2100	51.03		39.78	2.16	53.19		41.94	63.20	53.20	-10.01	-11.26	P	
3	0.2620	45.59		32.78	1.92	47.51		34.70	61.36	51.36	-13.85	-16.66	P	
4	0.3100	42.52		27.24	1.73	44.25		28.97	59.97	49.97	-15.72	-21.00	P	
5	1.2740	38.97		28.11	1.37	40.34		29.48	56.00	46.00	-15.66	-16.52	P	
6	2.4219	41.47		31.51	0.68	42.15		32.19	56.00	46.00	-13.85	-13.81	P	

L:



Site site #1

Phase: *L1*

Temperature: 24

Limit: FCC Class B Conduction (QP)

Power: AC 120V/60Hz

Humidity: 53 %

EUT: HD MEDIA WONDER

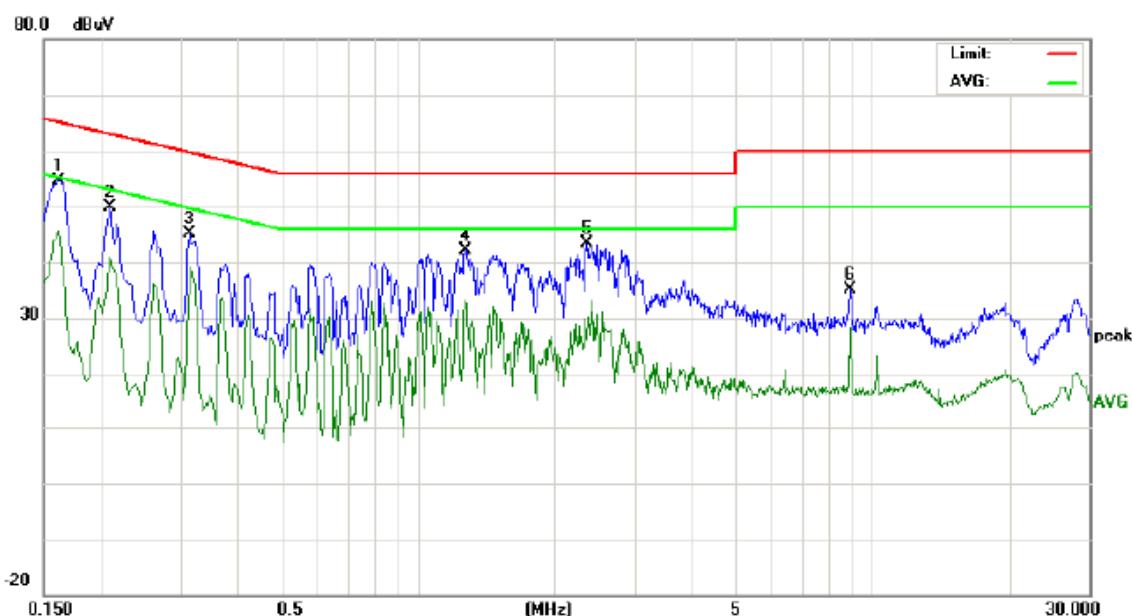
M/N: MP1000

Mode: USB Playing

Note: AV Output

No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		
		MHz	Peak	QP	Avg	peak	QP	Avg	QP	Avg	QP	Avg	P/F
1	0.1580	53.85	52.60	43.66	1.62	55.47	54.22	45.28	65.56	55.56	-11.34	-10.28	P
2	0.2100	47.62		38.26	2.16	49.78		40.42	63.20	53.20	-13.42	-12.78	P
3	0.3140	44.10		37.88	1.73	45.83		39.61	59.86	49.86	-14.03	-10.25	P
4	0.5820	40.35		33.09	1.54	41.89		34.63	56.00	46.00	-14.11	-11.37	P
5	2.3500	43.91		28.46	0.72	44.63		29.18	56.00	46.00	-11.37	-16.82	P
6	28.3300	30.59		16.46	2.73	33.32		19.19	60.00	50.00	-26.68	-30.81	P

N:



Site site #1 Phase: **N** Temperature: 24

Limit: FCC Class B Conduction (QP) Power: AC 120V/60Hz Humidity: 53 %

EUT: HD MEDIA WONDER

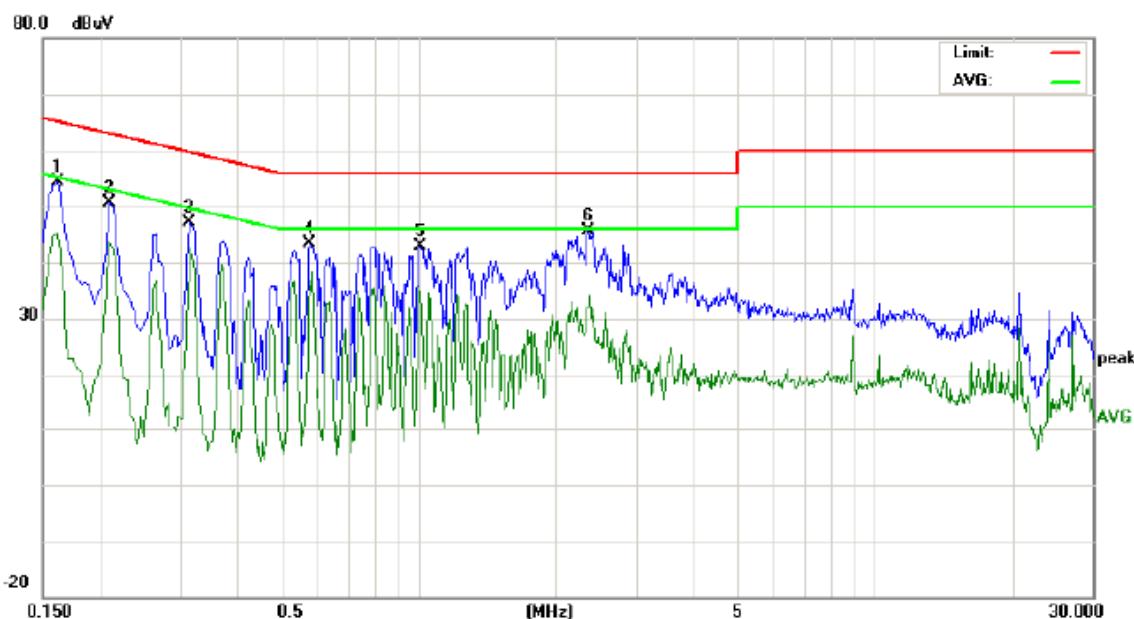
M/N: MP1000

Mode: USB Playing

Note: AV Output

No.	Freq.	Reading_Level (dBuV)			Correct Factor			Measurement (dBuV)			Limit (dBuV)			Margin (dB)	
		MHz	Peak	QP	Avg	dB	peak	QP	Avg	QP	Avg	QP	Avg	P/F	Comment
1	0.1620	52.94		43.83	1.68	54.62		45.51	65.36	55.36	-10.74	-9.85		P	
2	0.2100	47.82		38.70	2.16	49.98		40.86	63.20	53.20	-13.22	-12.34		P	
3	0.3140	43.50		34.94	1.73	45.23		36.67	59.86	49.86	-14.63	-13.19		P	
4	1.2740	40.76		31.73	1.37	42.13		33.10	56.00	46.00	-13.87	-12.90		P	
5	2.3540	42.56		25.32	0.72	43.28		26.04	56.00	46.00	-12.72	-19.96		P	
6	8.9540	34.60		27.94	0.41	35.01		28.35	60.00	50.00	-24.99	-21.65		P	

L:



Site site #1

Phase: L1

Temperature: 24

Limit: FCC Class B Conduction (QP)

Power: AC 120V/60Hz

Humidity: 53 %

EUT: HD MEDIA WONDER

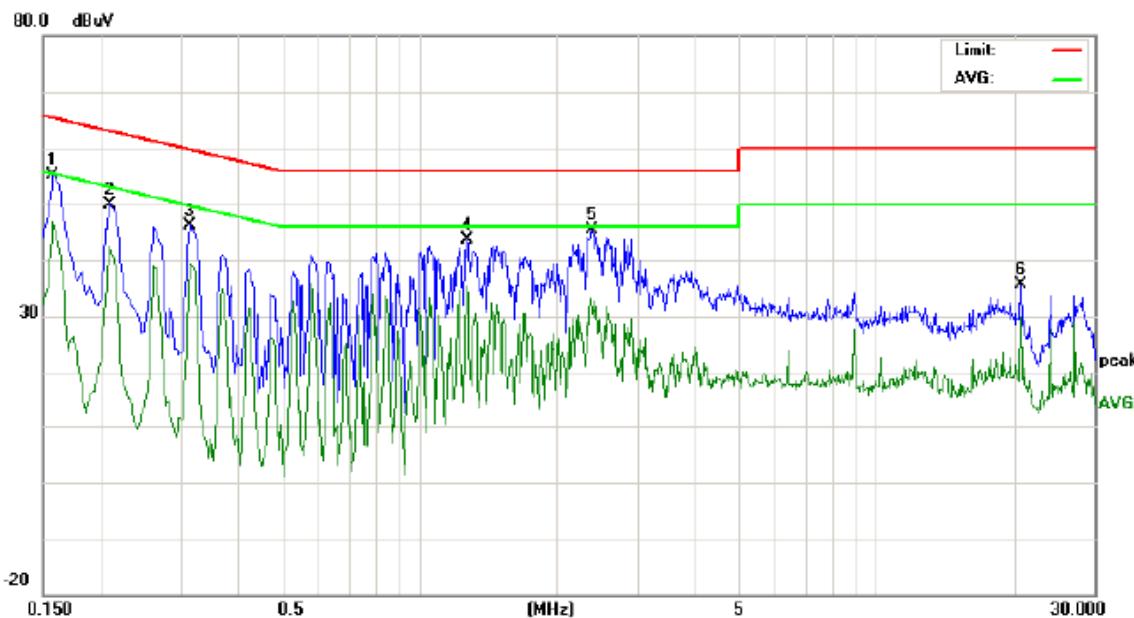
M/N: MP1000

Mode: LAN

Note:

No.	Freq.	Reading_Level (dBuV)			Correct Factor		Measurement (dBuV)			Limit (dBuV)		Margin (dB)		
		MHz	Peak	QP	Avg	dB	peak	QP	Avg	QP	Avg	QP	Avg	P/F
1	0.1620	52.65		43.53	1.68	54.33		45.21	65.36	55.36	-11.03	-10.15	P	
2	0.2100	48.48		41.43	2.16	50.64		43.59	63.20	53.20	-12.56	-9.61	P	
3	0.3140	45.41		37.15	1.73	47.14		38.88	59.86	49.86	-12.72	-10.98	P	
4	0.5780	41.93		35.41	1.54	43.47		36.95	56.00	46.00	-12.53	-9.05	P	
5	1.0100	41.40		32.49	1.53	42.93		34.02	56.00	46.00	-13.07	-11.98	P	
6	2.3500	44.95	40.73	28.04	0.72	45.67	41.45	28.76	56.00	46.00	-14.55	-17.24	P	

N:



Site site #1

Phase: **N**

Temperature: 24

Limit: FCC Class B Conduction (QP)

Power: AC 120V/60Hz

Humidity: 53 %

EUT: HD MEDIA WONDER

M/N: MP1000

Mode: LAN

Note:

No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)			Margin (dB)		
		MHz	Peak	QP	AVG	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.1580	53.53		45.14	1.62	55.15		46.76	65.56	55.56	-10.41	-8.80	P	
2	0.2100	47.77		40.21	2.16	49.93		42.37	63.20	53.20	-13.27	-10.83	P	
3	0.3140	44.49		37.65	1.73	46.22		39.38	59.86	49.86	-13.64	-10.48	P	
4	1.2740	42.32		33.92	1.37	43.69		35.29	56.00	46.00	-12.31	-10.71	P	
5	2.3900	44.78	41.23	29.62	0.70	45.48	41.93	30.32	56.00	46.00	-14.07	-15.68	P	
6	20.7700	33.83		28.13	1.67	35.50		29.80	60.00	50.00	-24.50	-20.20	P	

7. RADIATED EMISSION TEST

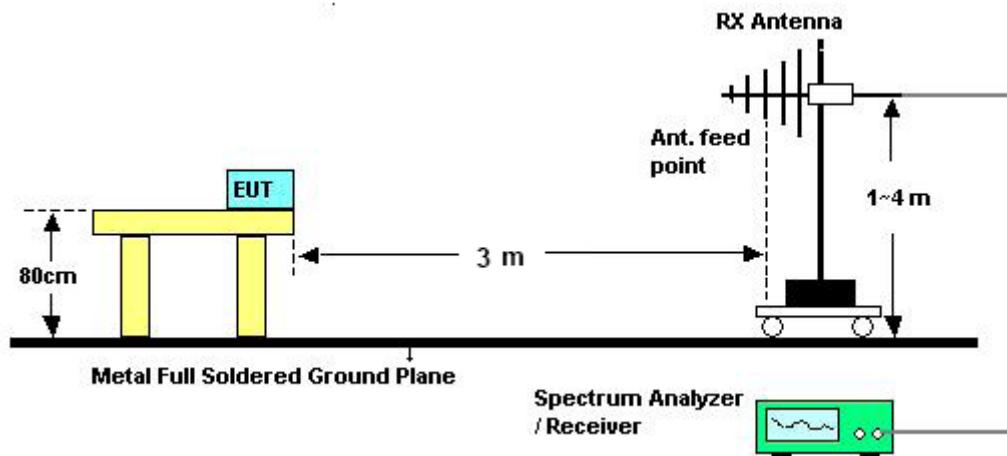
7.1 LIMITS

Frequency (MHz)	Field strength (μ V/m)	Distance (m)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note: the tighter limit applies at the band edges.

7.2 BLOCK DIAGRAM OF TEST SETUP

For radiated emissions from 30 - 1000MHz



7.3 PROCEDURE

- The EUT was placed on the non-conductive turntable above the ground at a chamber.
- Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 120 kHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied between 1~4 m in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.
- For each frequency whose maximum record was higher or close to limit, measure its QP value: vary the antenna's height and rotate the turntable from 0 to 360 degrees to find the height and degree where EUT radiated the maximum emission, then set the test frequency analyzer/receiver to QP Detector and specified bandwidth with Maximum Hold Mode, and record the maximum value.

7.4 TEST RESULT OF RADIATED EMISSION TEST

Pass

H:



Site site #1

Polarization: *Horizontal*

Temperature: 23

Limit: FCC Class B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: HD MEDIA WONDER

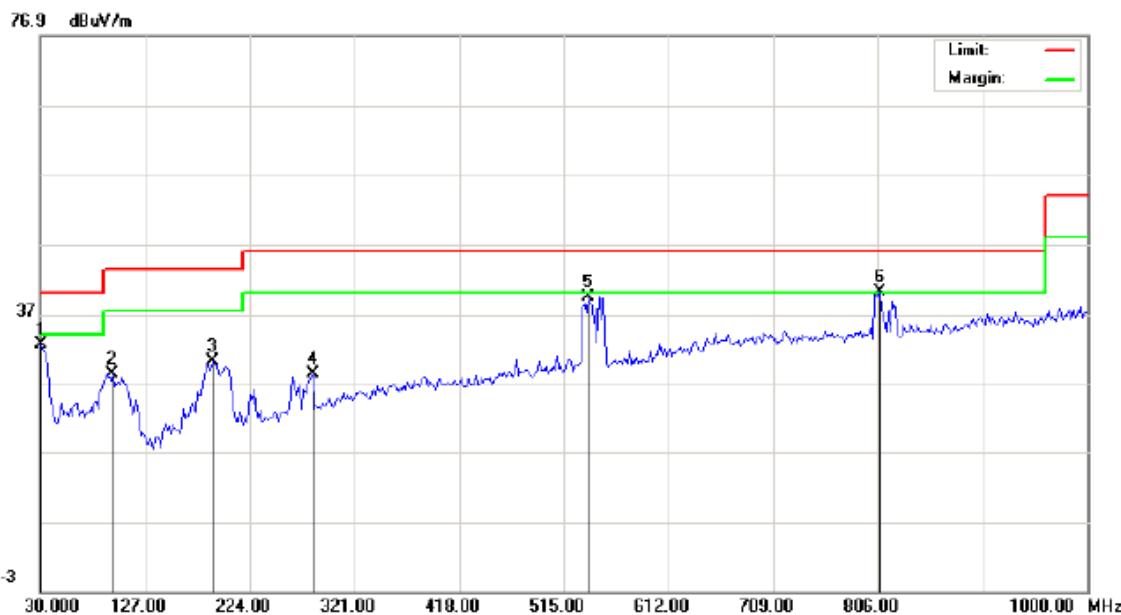
M/N: MP1000

Mode: USB Playing

Note: HDMI Output

No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV/m)			Limit (dBuV/m)		Margin (dB)		P/F	Comment
		MHz	Peak	QP	Avg	Peak	QP	Avg	QP	Avg	QP	Avg		
1	89.8166	19.62				9.96	29.58		43.50		-13.92		P	
2	204.5999	18.79				12.10	30.89		43.50		-12.61		P	
3	264.4166	15.65				14.52	30.17		46.00		-15.83		P	
4	282.1999	14.18				15.10	29.28		46.00		-16.72		P	
5	534.3999	17.18	15.28			21.06	38.24	36.34	46.00		-9.66		P	
6	814.0833	11.88				25.36	37.24		46.00		-8.76		P	

V:



Site site #1

Polarization: **Vertical**

Temperature: 23

Limit: FCC Class B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: HD MEDIA WONDER

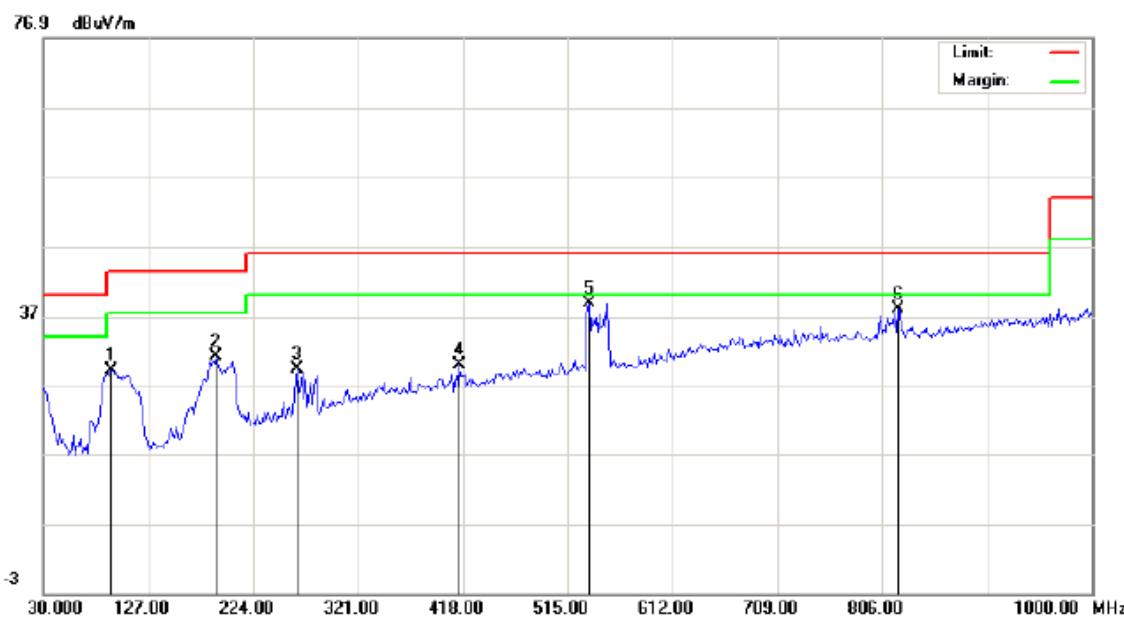
M/N: MP1000

Mode: USB Playing

Note: HDMI Output

No.	Freq.	Reading_Level (dBuV)			Correct Factor			Measurement (dBuV/m)			Limit (dBuV/m)		Margin (dB)	
		MHz	Peak	QP	Avg	dB	peak	QP	Avg	QP	Avg	QP	Avg	P/F
1	30.0000	14.95				17.63	32.58			40.00		-7.42		P
2	96.2833	18.07				10.26	28.33			43.50		-15.17		P
3	190.0500	18.24				11.90	30.14			43.50		-13.36		P
4	282.2000	13.35				15.10	28.45			46.00		-17.55		P
5	537.6332	18.20				21.14	39.34			46.00		-6.66		P
6	807.6167	14.91	12.83			25.24	40.15	38.07		46.00		-7.93		P

H:



Site site #1

Polarization: **Horizontal**

Temperature: 23

Limit: FCC Class B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: HD MEDIA WONDER

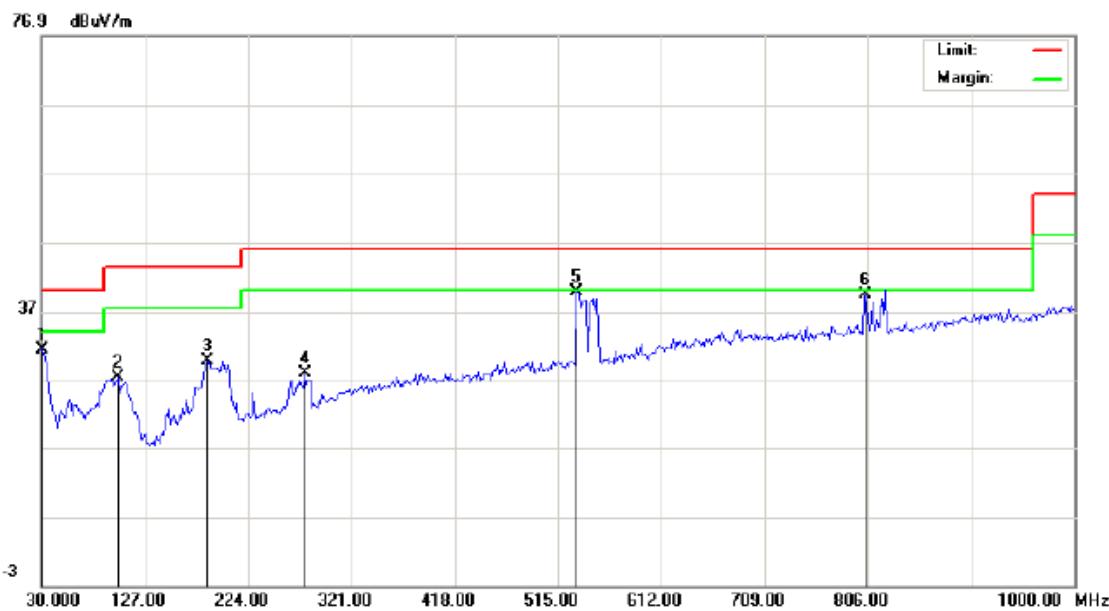
M/N: MP1000

Mode: USB Playing

Note: AV Output

No.	Freq.	Reading_Level (dBuV)			Correct Factor			Measurement (dBuV/m)			Limit (dBuV/m)		Margin (dB)	
		MHz	Peak	QP	Avg	dB	peak	QP	Avg	QP	Avg	QP	Avg	P/F
1	93.0499	19.05				10.11	29.16			43.50		-14.34		P
2	190.0500	19.34				11.90	31.24			43.50		-12.26		P
3	264.4166	14.93				14.52	29.45			46.00		-16.55		P
4	414.7667	11.53				18.47	30.00			46.00		-16.00		P
5	534.3999	17.84				21.06	38.90			46.00		-7.10		P
6	820.5499	12.57				25.48	38.05			46.00		-7.95		P

V:



Site site #1

Polarization: **Vertical**

Temperature: 23

Limit: FCC Class B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: HD MEDIA WONDER

M/N: MP1000

Mode: USB Playing

Note: AV Output

No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV/m)			Limit (dBuV/m)		Margin (dB)		P/F	Comment
		MHz	Peak	QP	Avg	Peak	QP	Avg	QP	Avg	QP	Avg		
1	30.0000	13.87				17.63	31.50		40.00		-8.50		P	
2	101.1333	16.99				10.35	27.34		43.50		-16.16		P	
3	185.2000	18.05				11.83	29.88		43.50		-13.62		P	
4	277.3500	13.12				14.90	28.02		46.00		-17.98		P	
5	532.7833	18.83	16.04			21.02	39.85	37.06	46.00		-8.94		P	
6	804.3832	14.27				25.18	39.45		46.00		-6.55		P	

H:



Site site #1

Polarization: **Horizontal**

Temperature: 23

Limit: FCC Class B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: HD MEDIA WONDER

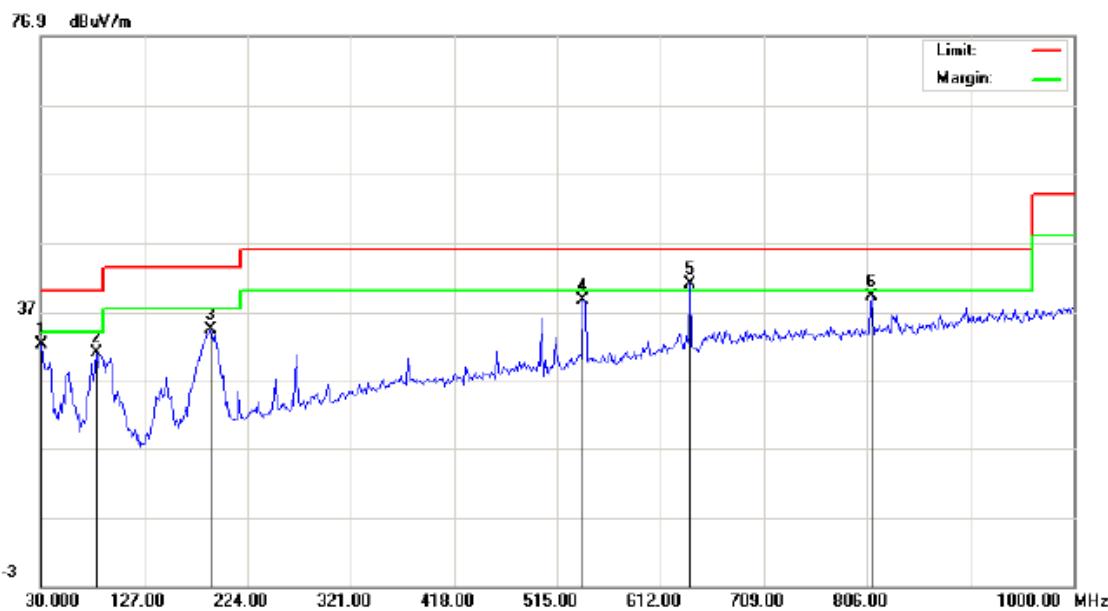
M/N: MP1000

Mode: LAN

Note:

No.	Freq.	Reading_Level (dBuV)			Correct Factor			Measurement (dBuV/m)			Limit (dBuV/m)		Margin (dB)	
		MHz	Peak	QP	Avg	dB	peak	QP	Avg	QP	Avg	QP	Avg	P/F
1	97.9000	17.86				10.33	28.19			43.50		-15.31		P
2	141.5500	20.86				9.82	30.68			43.50		-12.82		P
3	186.8167	22.48				11.86	34.34			43.50		-9.16		P
4	269.2667	18.50				14.65	33.15			46.00		-12.85		P
5	387.2833	17.48				18.22	35.70			46.00		-10.30		P
6	497.2167	18.57				19.96	38.53			46.00		-7.47		P
7	552.1833	18.64				21.47	40.11			46.00		-5.89		P

V:



Site site #1

Polarization: **Vertical**

Temperature: 23

Limit: FCC Class B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: HD MEDIA WONDER

M/N: MP1000

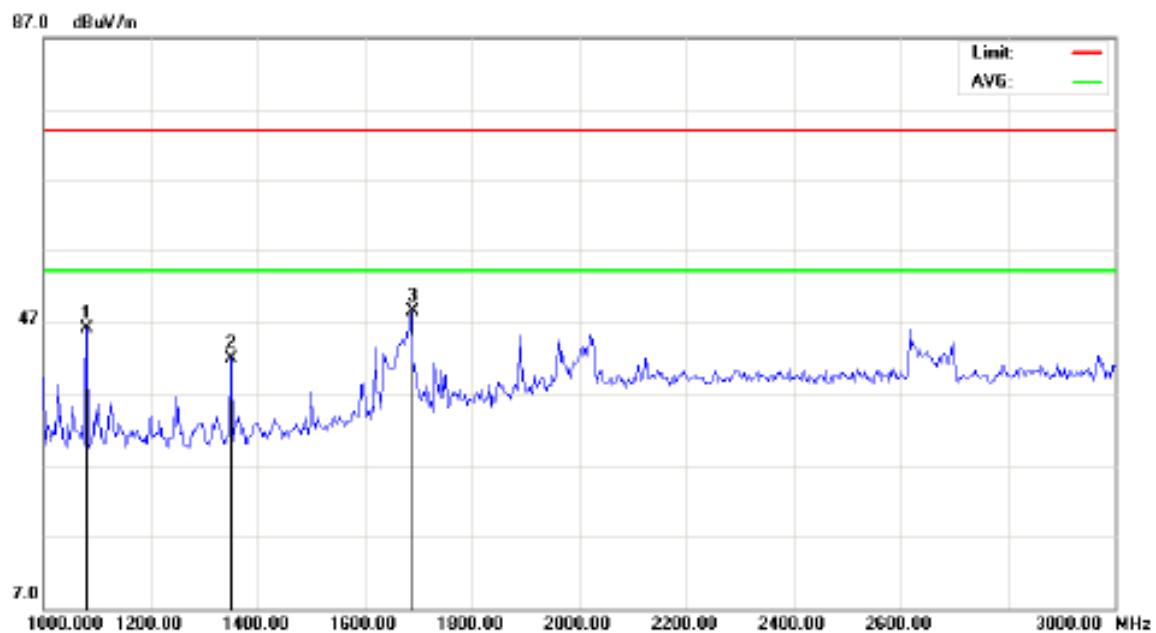
Mode: LAN

Note:

No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV/m)			Limit (dBuV/m)		Margin (dB)		P/F	Comment
		MHz	Peak	QP	Avg	peak	QP	Avg	QP	Avg	QP	Avg		
1	30.0000	14.66				17.63	32.29		40.00		-7.71		P	
2	81.7333	21.96				9.12	31.08		40.00		-8.92		P	
3	190.0500	22.54				11.90	34.44		43.50		-9.06		P	
4	539.2500	17.37				21.19	38.56		46.00		-7.44		P	
5	639.4833	17.73	15.17			23.29	41.02	38.46	46.00		-7.54		P	
6	810.8500	13.91				25.30	39.21		46.00		-6.79		P	

Above 1GHz:

H:



Site site #1 Polarization: **Horizontal** Temperature: 23

Limit: FCC Class B 3M Radiation Power: AC 120V/60Hz Humidity: 60 %

EUT: HD MEDIA WONDER

M/N: MP1000

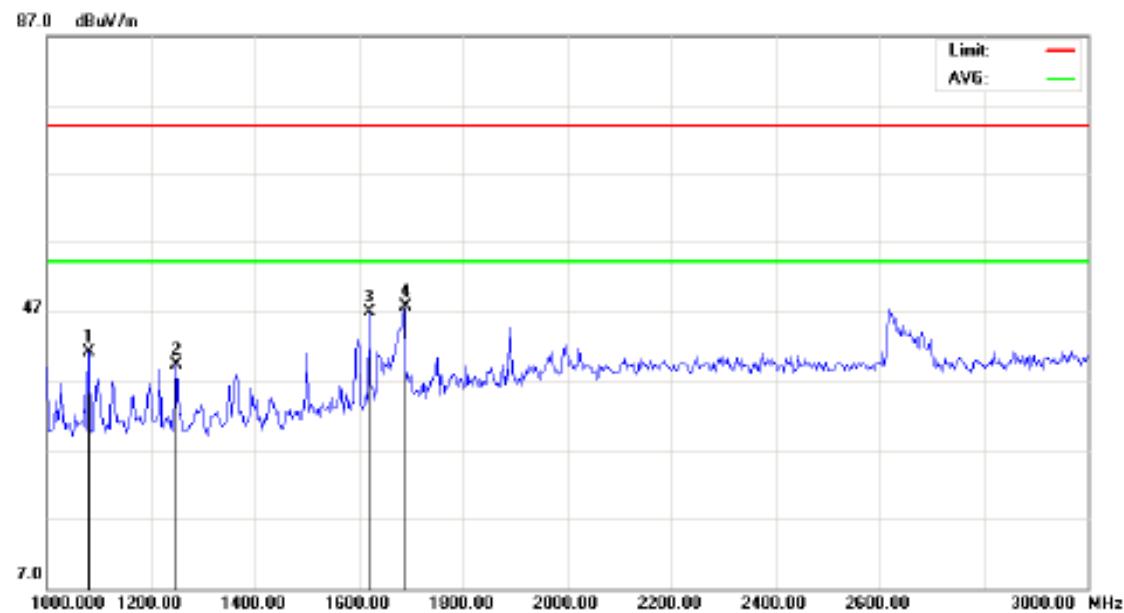
Mode: LAN PORT

Note:

No.	Freq.	Reading_Level		Correct Factor		Measurement		Limit		Margin	
		MHz	Peak	dB	Peak	Avg	Peak	Avg	Peak	Avg	P/F Comment
1	1080.000	49.89		-3.71	46.18		74.00	54.00	-27.82	-7.82	P
2	1350.000	43.81		-1.97	41.84		74.00	54.00	-32.16	-12.16	P
3	1686.667	46.63		1.88	48.51		74.00	54.00	-25.49	-5.49	P



v:



Site site #1

Polarization: **Vertical**

Temperature: 23

Limit: FCC Class B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: HD MEDIA WONDER

MN: MP1000

Mode: LAN PORT

Note:

No.	Freq.	Reading_Level (dBuV)		Correct Factor		Measurement (dBuV/m)		Limit (dBuV/m)		Margin (dB)		
		MHz	Peak	AVG	dB	Peak	AVG	Peak	AVG	Peak	AVG	P/I
1	1080.000	44.87			-3.71	41.18		74.00	54.00	-32.84	-12.84	P
2	1250.000	41.90			-2.61	39.29		74.00	54.00	-34.71	-14.71	P
3	1620.000	45.94			0.85	46.79		74.00	54.00	-27.21	-7.21	P
4	1686.667	45.71			1.88	47.59		74.00	54.00	-26.41	-8.41	P

APPENDIX 1 PHOTOGRAPHS OF TEST SETUP**TEST SETUP OF CONDUCTED EMISSION (HDMI and AV output)****TEST SETUP OF CONDUCTED EMISSION (LAN)**



TEST SETUP OF RADIATED EMISSION (HDMI and AV output)

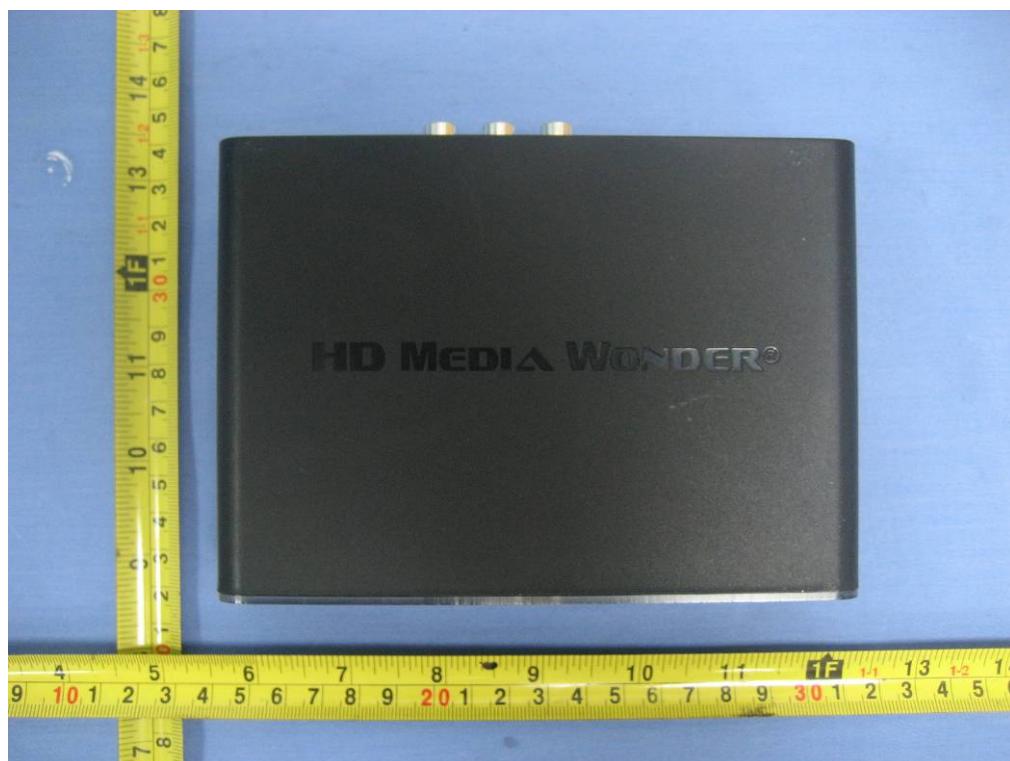


TEST SETUP OF RADIATED EMISSION (LAN)

**TEST SETUP OF RADIATED EMISSION (ABOVE 1 GHZ)**

APPENDIX 2 EXTERNAL PHOTOS OF EUT

View of EUT-1



View of EUT-2



View of EUT-3



View of EUT-4



View of EUT-5



View of EUT-6



View of EUT-7



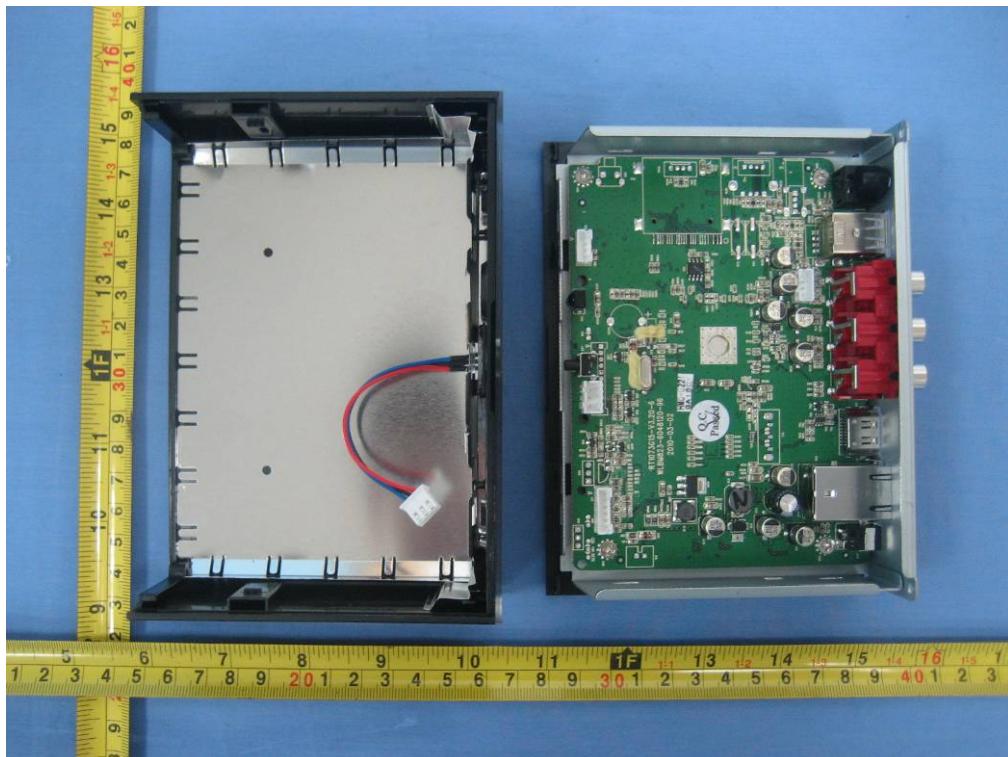
View of EUT-8



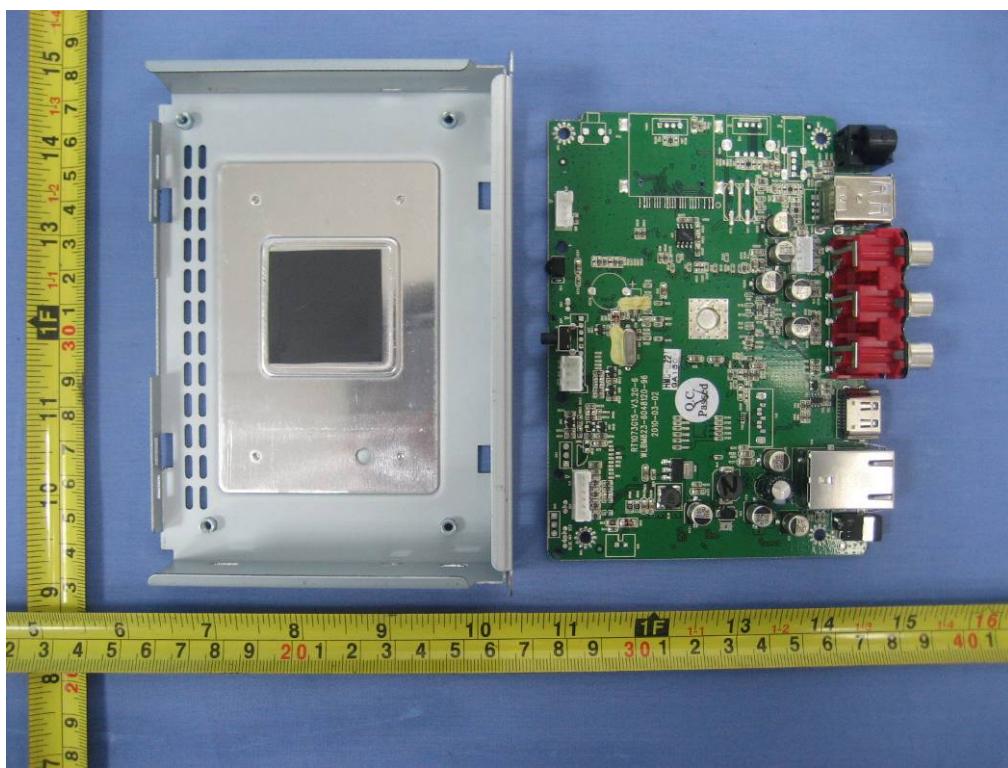
View of EUT



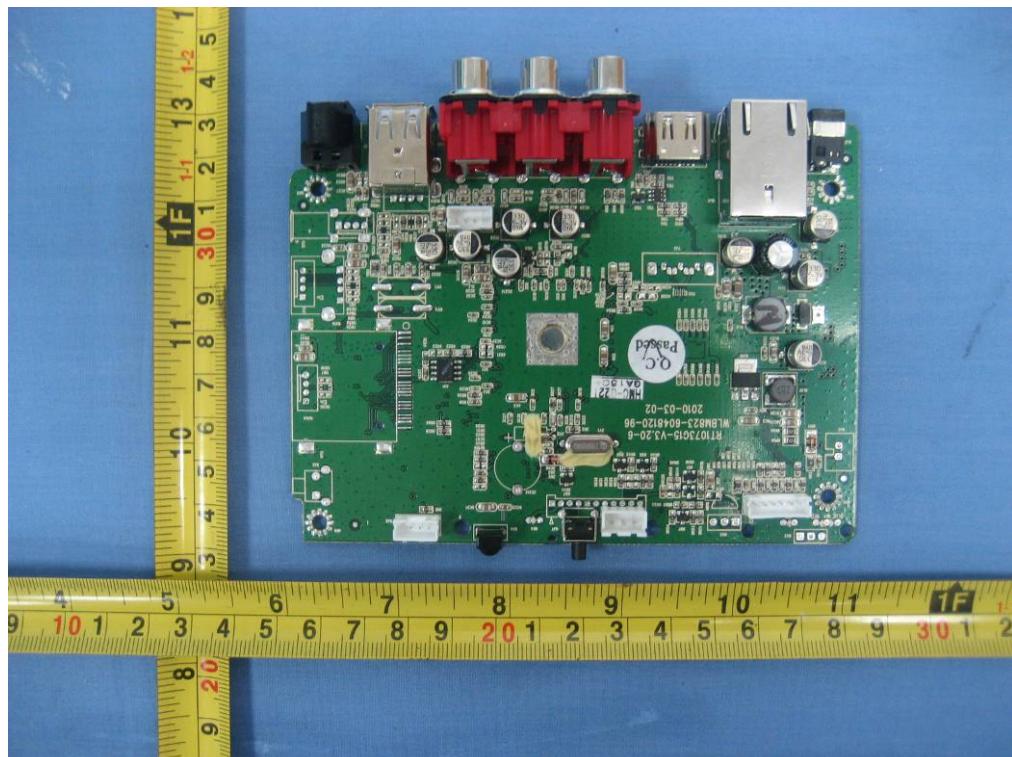
View of EUT-10

APPENDIX 3 INTERNAL PHOTOS OF EUT

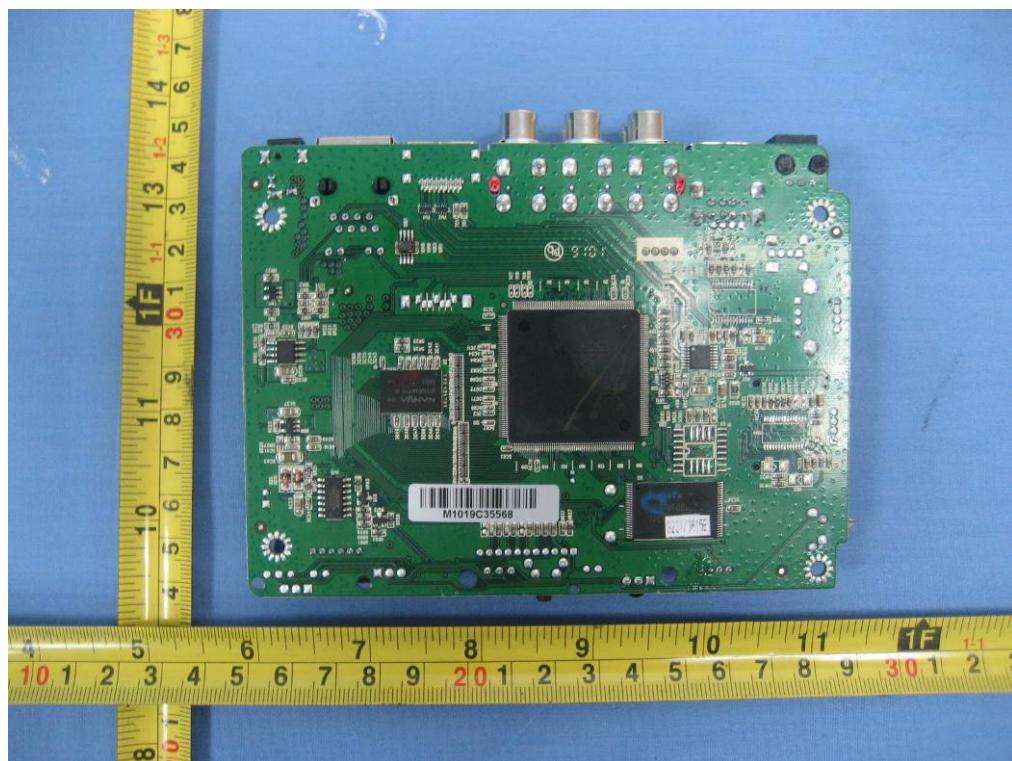
View of EUT-1



View of EUT-2



View of EUT-3



View of EUT-4

----- End of report -----