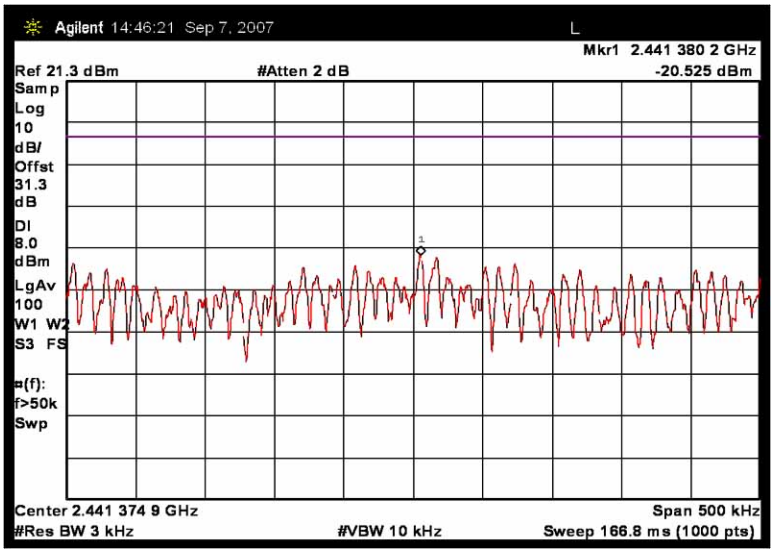
FCC 15.247(e) POWER SPECTRAL DENSITY - 802.11g HIGH SPANNED

FCC 15.247(e) POWER SPECTRAL DENSITY - 802.11G HIGH



RSS-210 99% Bandwidth

Test Equipment

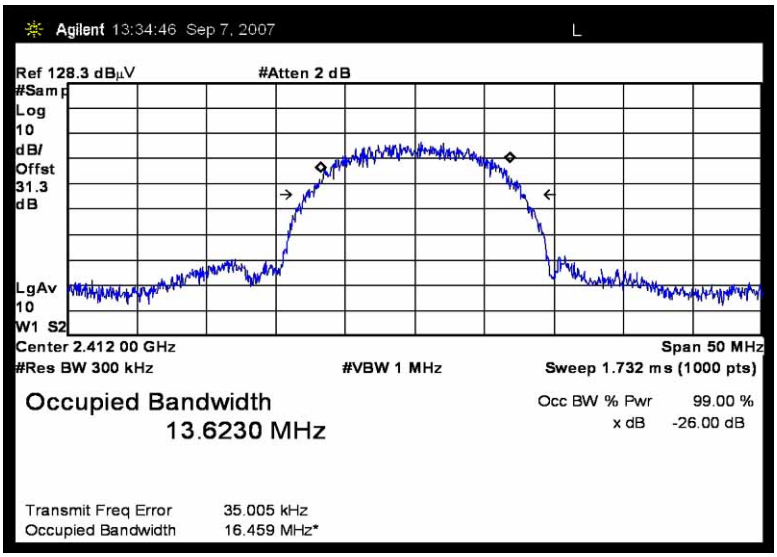
Equipment	Asset #	Manufacturer	Model	Serial #	Cal Date	Cal Due
Spectrum Analyzer	02672	Agilent	E4446A	US44300438	010307	010309
24" SMA Cable (White)	P05183	Pasterneck	35591-48	1-40GHz_white	011107	011109

Test Conditions: The EUT is placed on the test bench. USB port is connected to an AC power supply. The EUT is operating on Max power. RF emission profile evaluated at the internal antenna connector.

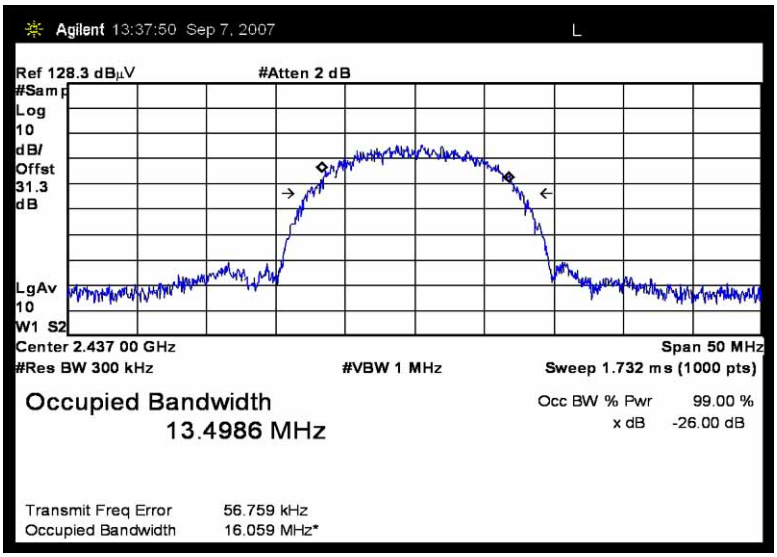
Test Setup Photos

Test Plots

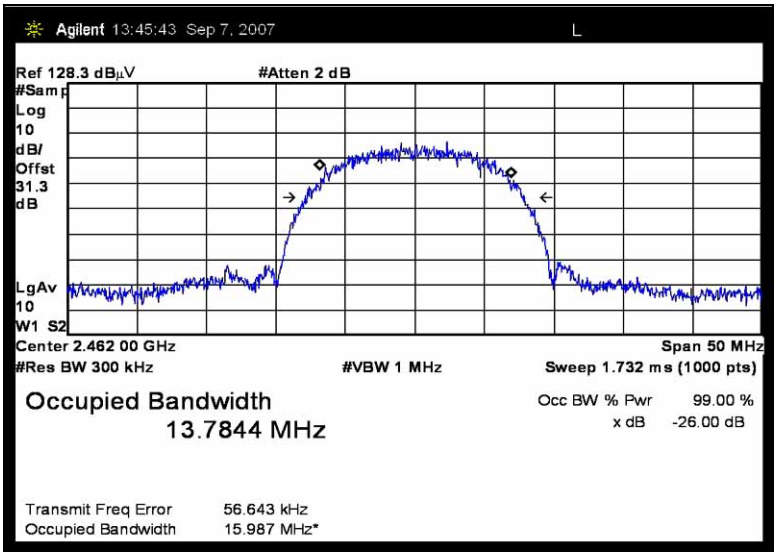
RSS-210 99% BANDWIDTH - 802.11b LOW



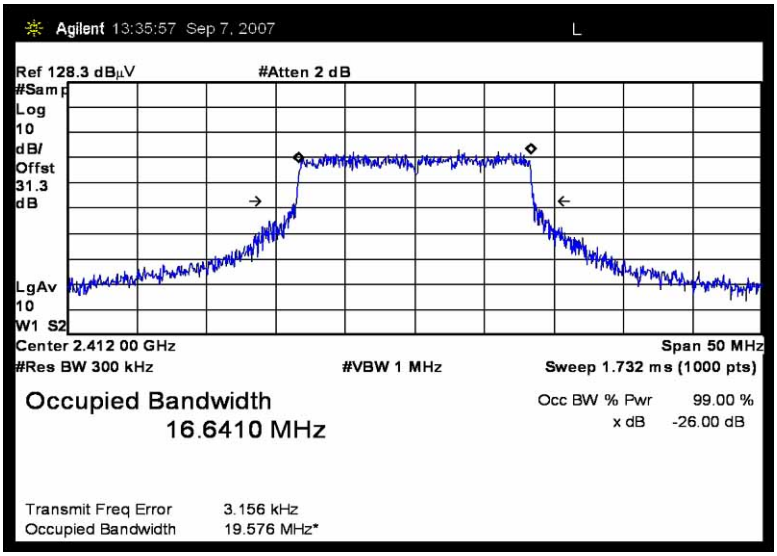
RSS-210 99% BANDWIDTH - 802.11b MIDDLE



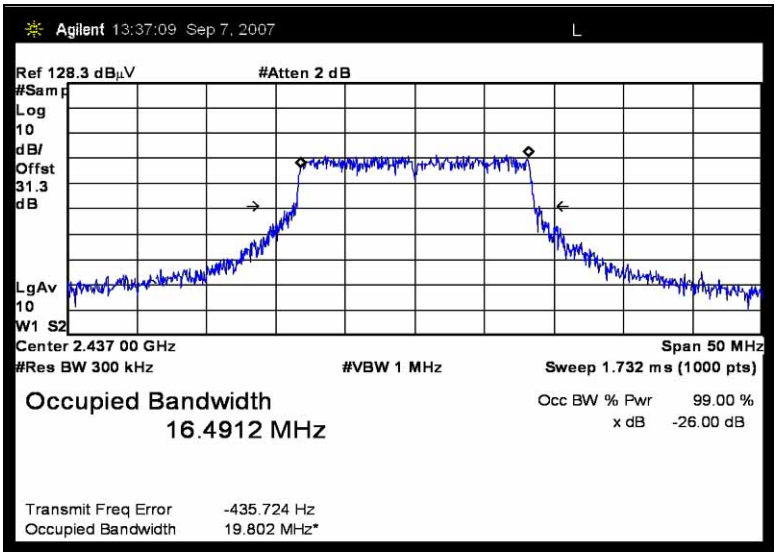
RSS-210 99% BANDWIDTH - 802.11b HIGH



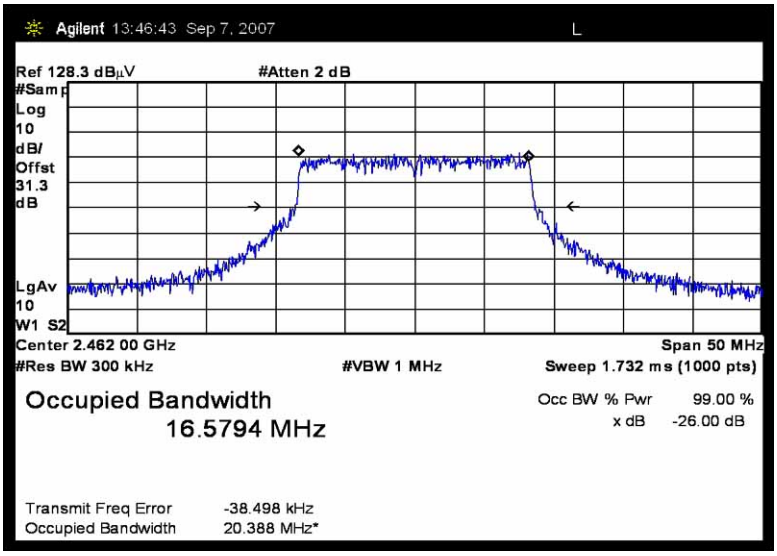
RSS-210 99% BANDWIDTH - 802.11g LOW



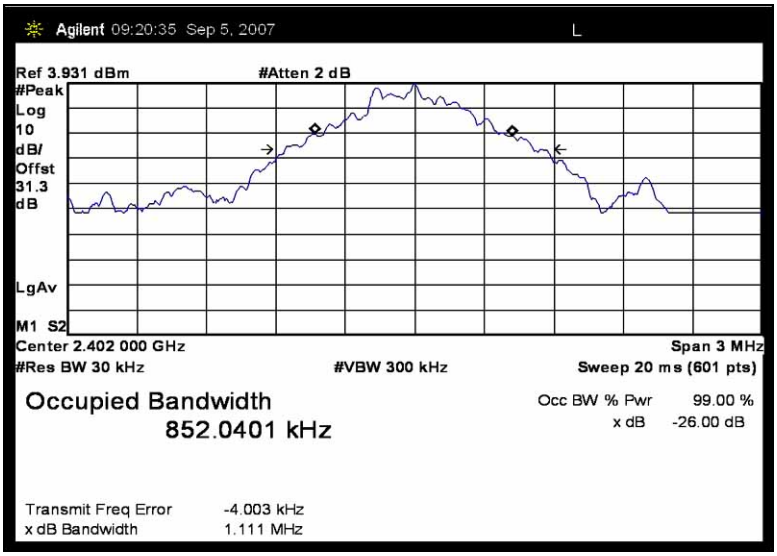
RSS-210 99% BANDWIDTH - 802.11g MIDDLE



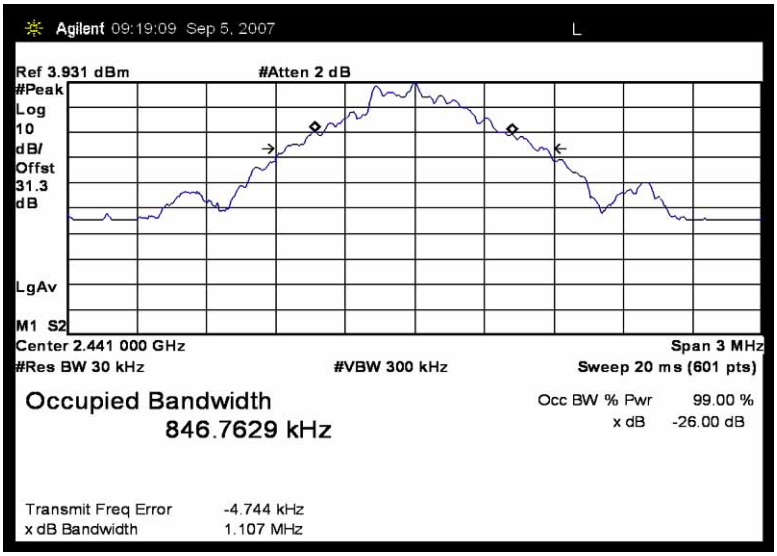
RSS-210 99% BANDWIDTH - 802.11g HIGH



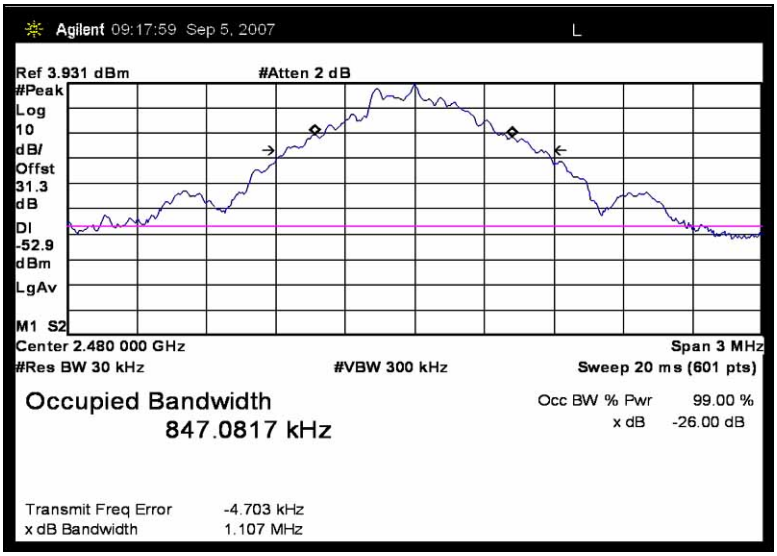
RSS-210 99% BANDWIDTH - BLUETOOTH LOW



RSS-210 99% BANDWIDTH - BLUETOOTH MIDDLE



RSS-210 99% BANDWIDTH - BLUETOOTH HIGH



APPENDIX A – ADDITIONAL POWER SUPPLY

FCC 15.107 – AC CONDUCTED EMISSIONS

ANALYZER BANDWIDTH SETTINGS PER FREQUENCY RANGE			
TEST	BEGINNING FREQUENCY	ENDING FREQUENCY	BANDWIDTH SETTING
CONDUCTED EMISSIONS	150 kHz	30 MHz	9 kHz

Test Setup Photos

Test Data

Test Location: CKC Laboratories, Inc. •110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer:	**Synapse Product Development, LLC**		
Specification:	**FCC 15.107 Class B COND [AVE]**		
Work Order #:	**87002**	Date:	9/15/2007
Test Type:	**Conducted Emissions**	Time:	08:11:37
Equipment:	**WiFi and Bluetooth Enabled Media Player**	Sequence#:	51
Manufacturer:	Haier America LLC	Tested By:	E. Wong
Model:	MW101AQ		110V 60Hz
S/N:	NA		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
LISN	1104	11/10/2006	11/10/2008	00847
6dB Attenuator	None	11/21/2006	11/21/2008	P05611
150kHz HPF	G7755	01/30/2006	01/30/2008	02610
Conducted Emission Cable	Cable #21	05/09/2006	05/09/2008	P04358

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
AC Power Supply	Haier America LLC	LSD-D03	NA
WiFi and Bluetooth Enabled Media Player*	Haier America LLC	MW101AQ	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

The EUT is placed on the wooden table. A set of earphones is connected to the Audio port. Docking port is connected to a section of unterminated cable. USB port is connected to an AC power supply. The EUT is operating on Max power. Mode: Transmit and receive in 802.11b mode, middle channel. Display and hard drives are exercised. 22°C, 49% relative humidity. Cost reduced Power supply design.

Transducer Legend:

T1=150kHz HPF Asset 02610	T2=6dB Attenuator P05611
T3=Cable #21 Conducted Site A 050908	T4=(L1) Insertion Loss 00847 EMCO 3816/2NM

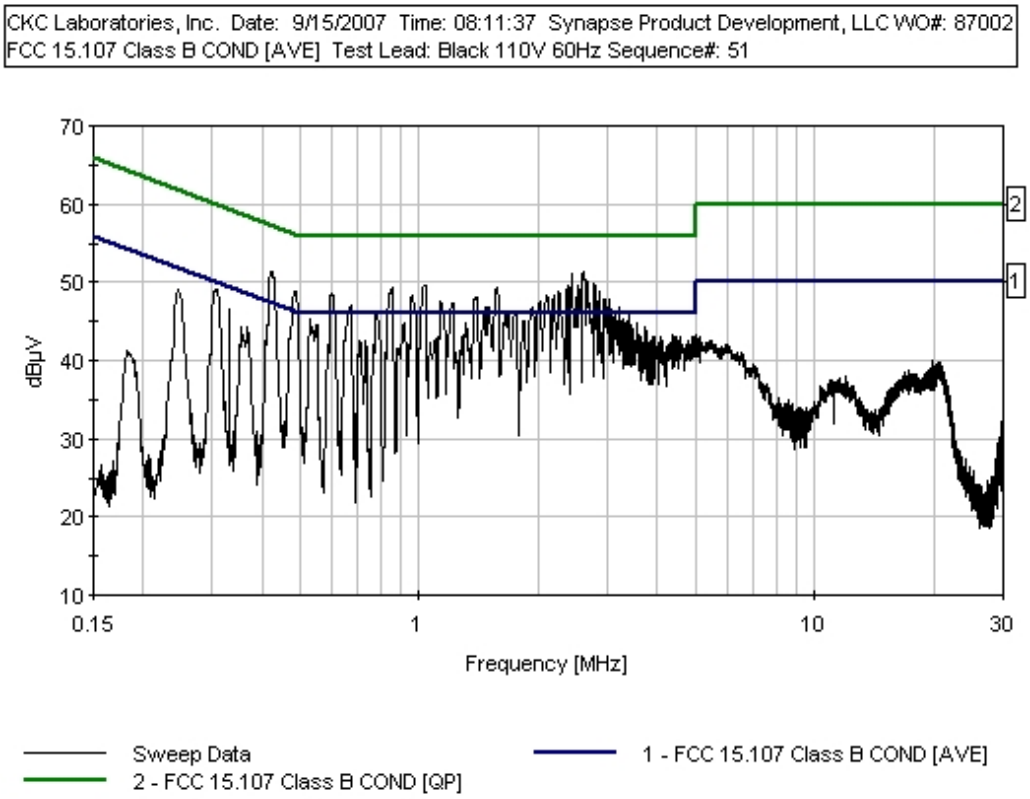
Measurement Data: Reading listed by margin. Test Lead: Black

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV	Spec dBµV	Margin dB	Polar Ant
1	3.603M	36.7	+0.1	+6.2	+0.2	+0.2	+0.0	43.4	46.0	-2.6	Black
2	4.386M	36.6	+0.1	+6.2	+0.2	+0.2	+0.0	43.3	46.0	-2.7	Black
3	330.347k	40.0	+0.2	+6.2	+0.1	+0.1	+0.0	46.6	49.4	-2.8	Black
4	4.985M	36.5	+0.1	+6.2	+0.2	+0.2	+0.0	43.2	46.0	-2.8	Black

5	246.718k	42.5	+0.2	+6.1	+0.1	+0.1	+0.0	49.0	51.9	-2.9	Black
6	3.650M	36.4	+0.1	+6.2	+0.2	+0.2	+0.0	43.1	46.0	-2.9	Black
7	3.909M	36.3	+0.1	+6.2	+0.2	+0.2	+0.0	43.0	46.0	-3.0	Black
8	4.449M	36.3	+0.1	+6.2	+0.2	+0.2	+0.0	43.0	46.0	-3.0	Black
9	4.088M	36.2	+0.1	+6.2	+0.2	+0.2	+0.0	42.9	46.0	-3.1	Black
10	4.569M	36.2	+0.1	+6.2	+0.2	+0.2	+0.0	42.9	46.0	-3.1	Black
11	1.098M	36.5	+0.1	+6.1	+0.0	+0.1	+0.0	42.8	46.0	-3.2	Black
12	3.943M	35.9	+0.1	+6.2	+0.2	+0.2	+0.0	42.6	46.0	-3.4	Black
13	704.858k	36.0	+0.2	+6.1	+0.1	+0.1	+0.0	42.5	46.0	-3.5	Black
14	731.038k	36.1	+0.1	+6.1	+0.1	+0.1	+0.0	42.5	46.0	-3.5	Black
15	3.858M	35.7	+0.1	+6.2	+0.2	+0.2	+0.0	42.4	46.0	-3.6	Black
16	421.975k Ave	37.1	+0.2	+6.2	+0.1	+0.0	+0.0	43.6	47.4	-3.8	Black
^	421.975k	44.9	+0.2	+6.2	+0.1	+0.0	+0.0	51.4	47.4	+4.0	Black
18	368.889k	37.7	+0.2	+6.2	+0.1	+0.0	+0.0	44.2	48.5	-4.3	Black
19	3.799M	34.6	+0.1	+6.2	+0.2	+0.2	+0.0	41.3	46.0	-4.7	Black
20	693.950k	34.3	+0.2	+6.1	+0.1	+0.1	+0.0	40.8	46.0	-5.2	Black
21	598.686k Ave	32.6	+0.2	+6.1	+0.1	+0.1	+0.0	39.1	46.0	-6.9	Black
^	598.686k	42.0	+0.2	+6.1	+0.1	+0.1	+0.0	48.5	46.0	+2.5	Black
23	302.977k Ave	34.5	+0.2	+6.2	+0.1	+0.1	+0.0	41.1	50.2	-9.1	Black
24	850.760k Ave	26.7	+0.1	+6.1	+0.0	+0.1	+0.0	33.0	46.0	-13.0	Black
^	854.663k	43.0	+0.1	+6.1	+0.0	+0.1	+0.0	49.3	46.0	+3.3	Black
26	1.566M Ave	26.4	+0.1	+6.1	+0.1	+0.1	+0.0	32.8	46.0	-13.2	Black
^	1.566M	42.9	+0.1	+6.1	+0.1	+0.1	+0.0	49.3	46.0	+3.3	Black
^	1.566M	42.7	+0.1	+6.1	+0.1	+0.1	+0.0	49.1	46.0	+3.1	Black

29	1.033M Ave	26.4	+0.1	+6.1	+0.0	+0.1	+0.0	32.7	46.0	-13.3	Black
^	1.030M	43.4	+0.1	+6.1	+0.0	+0.1	+0.0	49.7	46.0	+3.7	Black
31	1.209M Ave	26.0	+0.1	+6.1	+0.0	+0.1	+0.0	32.3	46.0	-13.7	Black
^	1.209M	40.9	+0.1	+6.1	+0.0	+0.1	+0.0	47.2	46.0	+1.2	Black
33	2.600M Ave	25.2	+0.1	+6.2	+0.1	+0.2	+0.0	31.8	46.0	-14.2	Black
^	2.600M	44.8	+0.1	+6.2	+0.1	+0.2	+0.0	51.4	46.0	+5.4	Black
35	1.392M Ave	25.4	+0.1	+6.1	+0.0	+0.1	+0.0	31.7	46.0	-14.3	Black
^	1.392M	41.7	+0.1	+6.1	+0.0	+0.1	+0.0	48.0	46.0	+2.0	Black
37	1.311M Ave	23.4	+0.1	+6.1	+0.0	+0.1	+0.0	29.7	46.0	-16.3	Black
^	1.311M	38.4	+0.1	+6.1	+0.0	+0.1	+0.0	44.7	46.0	-1.3	Black
39	3.118M Ave	20.5	+0.1	+6.2	+0.1	+0.2	+0.0	27.1	46.0	-18.9	Black
^	3.118M	39.7	+0.1	+6.2	+0.1	+0.2	+0.0	46.3	46.0	+0.3	Black
41	2.438M Ave	20.3	+0.1	+6.2	+0.1	+0.2	+0.0	26.9	46.0	-19.1	Black
^	2.438M	44.4	+0.1	+6.2	+0.1	+0.2	+0.0	51.0	46.0	+5.0	Black
43	2.200M Ave	20.3	+0.1	+6.1	+0.1	+0.1	+0.0	26.7	46.0	-19.3	Black
^	2.200M	41.8	+0.1	+6.1	+0.1	+0.1	+0.0	48.2	46.0	+2.2	Black
45	3.293M Ave	18.9	+0.1	+6.2	+0.1	+0.2	+0.0	25.5	46.0	-20.5	Black
^	3.293M	38.7	+0.1	+6.2	+0.1	+0.2	+0.0	45.3	46.0	-0.7	Black
47	2.859M Ave	18.2	+0.1	+6.2	+0.1	+0.2	+0.0	24.8	46.0	-21.2	Black
^	2.859M	42.2	+0.1	+6.2	+0.1	+0.2	+0.0	48.8	46.0	+2.8	Black
49	3.471M Ave	17.0	+0.1	+6.2	+0.2	+0.2	+0.0	23.7	46.0	-22.3	Black
^	3.471M	37.4	+0.1	+6.2	+0.2	+0.2	+0.0	44.1	46.0	-1.9	Black
51	308.531k Ave	20.8	+0.2	+6.2	+0.1	+0.1	+0.0	27.4	50.0	-22.6	Black

52	308.531k Ave	20.3	+0.2	+6.2	+0.1	+0.1	+0.0	26.9	50.0	-23.1	Black
^	308.531k	42.6	+0.2	+6.2	+0.1	+0.1	+0.0	49.2	50.0	-0.8	Black
54	3.391M Ave	16.0	+0.1	+6.2	+0.2	+0.2	+0.0	22.7	46.0	-23.3	Black
^	3.391M	39.1	+0.1	+6.2	+0.2	+0.2	+0.0	45.8	46.0	-0.2	Black
56	3.420M Ave	15.3	+0.1	+6.2	+0.2	+0.2	+0.0	22.0	46.0	-24.0	Black
^	3.420M	37.9	+0.1	+6.2	+0.2	+0.2	+0.0	44.6	46.0	-1.4	Black
58	915.480k Ave	11.7	+0.1	+6.1	+0.0	+0.1	+0.0	18.0	46.0	-28.0	Black
^	915.480k	38.6	+0.1	+6.1	+0.0	+0.1	+0.0	44.9	46.0	-1.1	Black



Test Location: CKC Laboratories, Inc. •110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer:	**Synapse Product Development, LLC**		
Specification:	**FCC 15.107 Class B COND [AVE]**		
Work Order #:	**87002**	Date:	9/15/2007
Test Type:	**Conducted Emissions**	Time:	08:26:13
Equipment:	**WiFi and Bluetooth Enabled Media Player**	Sequence#:	52
Manufacturer:	Haier America LLC	Tested By:	E. Wong
Model:	MW101AQ		110V 60Hz
S/N:	NA		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
LISN	1104	11/10/2006	11/10/2008	00847
6dB Attenuator	None	11/21/2006	11/21/2008	P05611
150kHz HPF	G7755	01/30/2006	01/30/2008	02610
Conducted Emission Cable	Cable #21	05/09/2006	05/09/2008	P04358

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
AC Power Supply	Haier America LLC	LSD-D03	NA
WiFi and Bluetooth Enabled Media Player*	Haier America LLC	MW101AQ	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

The EUT is placed on the wooden table. A set of earphones is connected to the Audio port. Docking port is connected to a section of unterminated cable. USB port is connected to an AC power supply. The EUT is operating on Max power. Mode: Transmit and receive in 802.11b mode, middle channel. Display and hard drives are exercised. 22°C, 49% relative humidity. Cost reduced Power supply design.

Transducer Legend:

T1=150kHz HPF Asset 02610	T2=6dB Attenuator P05611
T3=Cable #21 Conducted Site A 050908	T4=(L2) Insertion Loss 00847 EMCO 3816/2NM

Measurement Data: Reading listed by margin. Test Lead: White

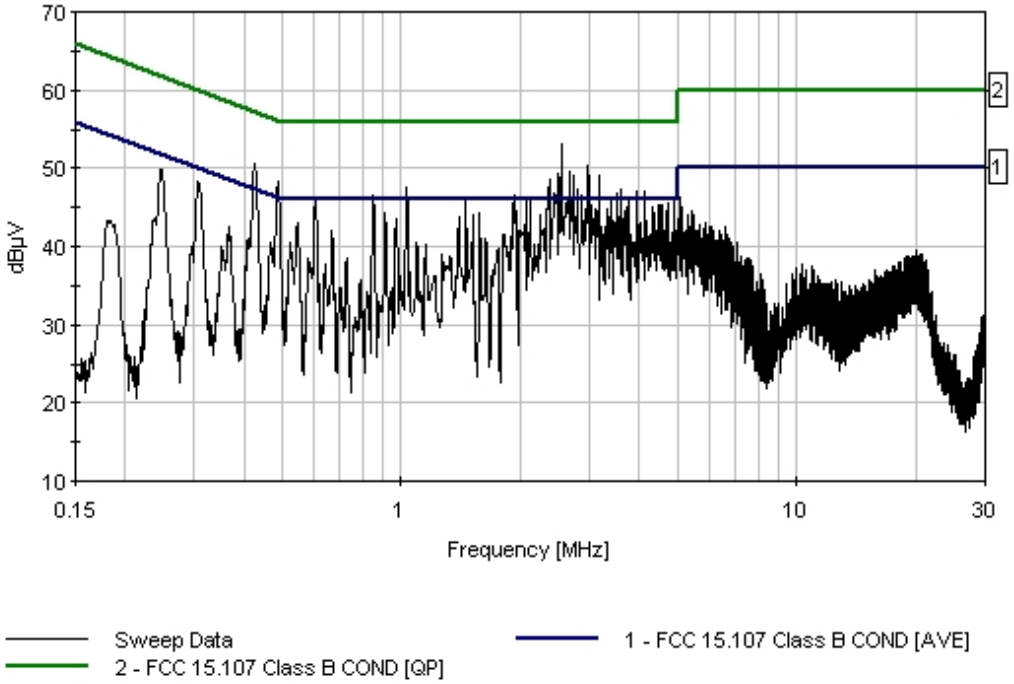
#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV	Spec dBµV	Margin dB	Polar Ant
1	1.519M	37.6	+0.1	+6.1	+0.1	+0.1	+0.0	44.0	46.0	-2.0	White
2	2.247M	37.4	+0.1	+6.2	+0.1	+0.2	+0.0	44.0	46.0	-2.0	White
3	1.396M	37.5	+0.1	+6.1	+0.0	+0.1	+0.0	43.8	46.0	-2.2	White
4	970.765k	37.3	+0.1	+6.1	+0.0	+0.1	+0.0	43.6	46.0	-2.4	White
5	4.190M	36.7	+0.1	+6.2	+0.2	+0.2	+0.0	43.4	46.0	-2.6	White

6	3.735M	36.6	+0.1	+6.2	+0.2	+0.2	+0.0	43.3	46.0	-2.7	White
7	4.011M	36.3	+0.1	+6.2	+0.2	+0.2	+0.0	43.0	46.0	-3.0	White
8	547.054k	36.4	+0.2	+6.1	+0.1	+0.1	+0.0	42.9	46.0	-3.1	White
9	4.152M	36.2	+0.1	+6.2	+0.2	+0.2	+0.0	42.9	46.0	-3.1	White
10	3.220M	36.0	+0.1	+6.2	+0.1	+0.2	+0.0	42.6	46.0	-3.4	White
11	5.100M	39.6	+0.1	+6.2	+0.2	+0.2	+0.0	46.3	50.0	-3.7	White
12	668.498k	35.6	+0.2	+6.1	+0.1	+0.1	+0.0	42.1	46.0	-3.9	White
13	4.432M	35.4	+0.1	+6.2	+0.2	+0.2	+0.0	42.1	46.0	-3.9	White
14	4.615M	35.3	+0.1	+6.2	+0.2	+0.2	+0.0	42.0	46.0	-4.0	White
15	4.981M	35.3	+0.1	+6.2	+0.2	+0.2	+0.0	42.0	46.0	-4.0	White
16	4.862M	35.1	+0.1	+6.2	+0.2	+0.2	+0.0	41.8	46.0	-4.2	White
17	3.799M	34.9	+0.1	+6.2	+0.2	+0.2	+0.0	41.6	46.0	-4.4	White
18	1.817M	35.1	+0.1	+6.1	+0.1	+0.1	+0.0	41.5	46.0	-4.5	White
19	4.939M	34.8	+0.1	+6.2	+0.2	+0.2	+0.0	41.5	46.0	-4.5	White
20	1.885M	34.8	+0.1	+6.1	+0.1	+0.1	+0.0	41.2	46.0	-4.8	White
21 Ave	2.549M	23.0	+0.1	+6.2	+0.1	+0.2	+0.0	29.6	46.0	-16.4	White
^	2.549M	46.4	+0.1	+6.2	+0.1	+0.2	+0.0	53.0	46.0	+7.0	White
^	2.549M	46.3	+0.1	+6.2	+0.1	+0.2	+0.0	52.9	46.0	+6.9	White
24 Ave	2.971M	20.6	+0.1	+6.2	+0.1	+0.2	+0.0	27.2	46.0	-18.8	White
^	2.974M	43.8	+0.1	+6.2	+0.1	+0.2	+0.0	50.4	46.0	+4.4	White
26 Ave	247.446k	26.4	+0.2	+6.1	+0.1	+0.1	+0.0	32.9	51.8	-18.9	White
^	247.446k	43.4	+0.2	+6.1	+0.1	+0.1	+0.0	49.9	51.8	-1.9	White
28 Ave	3.152M	19.7	+0.1	+6.2	+0.1	+0.2	+0.0	26.3	46.0	-19.7	White
^	3.161M	42.6	+0.1	+6.2	+0.1	+0.2	+0.0	49.2	46.0	+3.2	White

30 Ave	2.726M	19.7	+0.1	+6.2	+0.1	+0.2	+0.0	26.3	46.0	-19.7	White
^	2.731M	42.6	+0.1	+6.2	+0.1	+0.2	+0.0	49.2	46.0	+3.2	White
32 Ave	423.636k	20.3	+0.2	+6.2	+0.1	+0.1	+0.0	26.9	47.4	-20.5	White
^	426.338k	43.9	+0.2	+6.2	+0.1	+0.1	+0.0	50.5	47.3	+3.2	White
34 Ave	3.582M	18.6	+0.1	+6.2	+0.2	+0.2	+0.0	25.3	46.0	-20.7	White
^	3.582M	40.6	+0.1	+6.2	+0.2	+0.2	+0.0	47.3	46.0	+1.3	White
36 Ave	4.126M	18.1	+0.1	+6.2	+0.2	+0.2	+0.0	24.8	46.0	-21.2	White
^	4.126M	40.4	+0.1	+6.2	+0.2	+0.2	+0.0	47.1	46.0	+1.1	White
38 Ave	306.349k	21.8	+0.2	+6.2	+0.1	+0.1	+0.0	28.4	50.1	-21.7	White
^	306.349k	41.6	+0.2	+6.2	+0.1	+0.1	+0.0	48.2	50.1	-1.9	White
40 Ave	306.349k	21.7	+0.2	+6.2	+0.1	+0.1	+0.0	28.3	50.1	-21.8	White
41 Ave	4.552M	17.2	+0.1	+6.2	+0.2	+0.2	+0.0	23.9	46.0	-22.1	White
^	4.552M	38.5	+0.1	+6.2	+0.2	+0.2	+0.0	45.2	46.0	-0.8	White
43 Ave	3.038M	16.7	+0.1	+6.2	+0.1	+0.2	+0.0	23.3	46.0	-22.7	White
^	3.038M	38.7	+0.1	+6.2	+0.1	+0.2	+0.0	45.3	46.0	-0.7	White
45 Ave	3.701M	16.4	+0.1	+6.2	+0.2	+0.2	+0.0	23.1	46.0	-22.9	White
46 Ave	4.309M	16.4	+0.1	+6.2	+0.2	+0.2	+0.0	23.1	46.0	-22.9	White
^	4.309M	38.4	+0.1	+6.2	+0.2	+0.2	+0.0	45.1	46.0	-0.9	White
48 Ave	3.701M	16.2	+0.1	+6.2	+0.2	+0.2	+0.0	22.9	46.0	-23.1	White
^	3.701M	38.3	+0.1	+6.2	+0.2	+0.2	+0.0	45.0	46.0	-1.0	White
50 Ave	2.123M	16.4	+0.1	+6.1	+0.1	+0.1	+0.0	22.8	46.0	-23.2	White
^	2.123M	39.7	+0.1	+6.1	+0.1	+0.1	+0.0	46.1	46.0	+0.1	White
52 Ave	3.948M	16.1	+0.1	+6.2	+0.2	+0.2	+0.0	22.8	46.0	-23.2	White
^	3.948M	40.3	+0.1	+6.2	+0.2	+0.2	+0.0	47.0	46.0	+1.0	White

54 Ave	605.958k	16.1	+0.2	+6.1	+0.1	+0.1	+0.0	22.6	46.0	-23.4	White
^	605.958k	39.5	+0.2	+6.1	+0.1	+0.1	+0.0	46.0	46.0	+0.0	White
56 Ave	3.701M	15.9	+0.1	+6.2	+0.2	+0.2	+0.0	22.6	46.0	-23.4	White
57 Ave	2.064M	16.1	+0.1	+6.1	+0.1	+0.1	+0.0	22.5	46.0	-23.5	White
^	2.064M	39.6	+0.1	+6.1	+0.1	+0.1	+0.0	46.0	46.0	+0.0	White
59 Ave	4.734M	15.4	+0.1	+6.2	+0.2	+0.2	+0.0	22.1	46.0	-23.9	White
^	4.734M	38.9	+0.1	+6.2	+0.2	+0.2	+0.0	45.6	46.0	-0.4	White
61 Ave	4.917M	14.9	+0.1	+6.2	+0.2	+0.2	+0.0	21.6	46.0	-24.4	White
^	4.917M	39.6	+0.1	+6.2	+0.2	+0.2	+0.0	46.3	46.0	+0.3	White
63 Ave	1.030M	13.9	+0.1	+6.1	+0.0	+0.1	+0.0	20.2	46.0	-25.8	White
^	1.035M	41.3	+0.1	+6.1	+0.0	+0.1	+0.0	47.6	46.0	+1.6	White
65 Ave	1.460M	12.6	+0.1	+6.1	+0.0	+0.1	+0.0	18.9	46.0	-27.1	White
^	1.460M	39.4	+0.1	+6.1	+0.0	+0.1	+0.0	45.7	46.0	-0.3	White
67 Ave	849.572k	12.2	+0.1	+6.1	+0.0	+0.1	+0.0	18.5	46.0	-27.5	White
^	849.572k	40.2	+0.1	+6.1	+0.0	+0.1	+0.0	46.5	46.0	+0.5	White

CKC Laboratories, Inc. Date: 9/15/2007 Time: 08:26:13 Synapse Product Development, LLC WO#: 87002
FCC 15.107 Class B COND [AVE] Test Lead: White 110V 60Hz Sequence#: 52



Test Location: CKC Laboratories, Inc. •110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer:	**Synapse Product Development, LLC**		
Specification:	**FCC 15.107 Class B COND [AVE]**		
Work Order #:	**87002**	Date:	9/15/2007
Test Type:	**Conducted Emissions**	Time:	09:03:50
Equipment:	**WiFi and Bluetooth Enabled Media Player**	Sequence#:	54
Manufacturer:	Haier America LLC	Tested By:	E. Wong
Model:	MW101AQ		110V 60Hz
S/N:	NA		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
LISN	1104	11/10/2006	11/10/2008	00847
6dB Attenuator	None	11/21/2006	11/21/2008	P05611
150kHz HPF	G7755	01/30/2006	01/30/2008	02610
Conducted Emission Cable	Cable #21	05/09/2006	05/09/2008	P04358

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
AC Power Supply	Haier America LLC	LSD-D03	NA
WiFi and Bluetooth Enabled Media Player*	Haier America LLC	MW101AQ	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

The EUT is placed on the wooden table. A set of earphones is connected to the Audio port. Docking port is connected to a section of unterminated cable. USB port is connected to an AC power supply. The EUT is operating on Max power. Mode: Transmit and receives. in 802.11g mode, middle channel. Display and hard drives are exercised. 22°C, 49% relative humidity. Cost reduced Power supply design.

Transducer Legend:

T1=150kHz HPF Asset 02610	T2=6dB Attenuator P05611
T3=Cable #21 Conducted Site A 050908	T4=(L1) Insertion Loss 00847 EMCO 3816/2NM

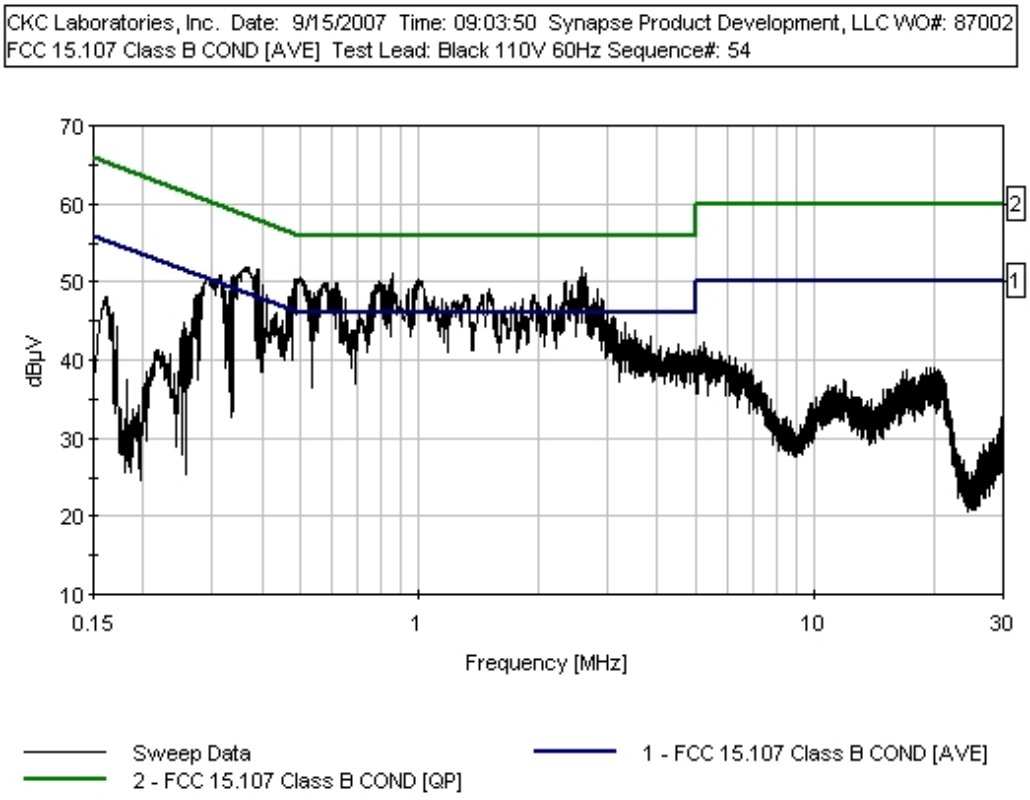
Measurement Data: Reading listed by margin. Test Lead: Black

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV	Spec dBµV	Margin dB	Polar Ant
1	683.042k	37.3	+0.2	+6.1	+0.1	+0.1	+0.0	43.8	46.0	-2.2	Black
2	3.157M	37.2	+0.1	+6.2	+0.1	+0.2	+0.0	43.8	46.0	-2.2	Black
3	3.522M	37.0	+0.1	+6.2	+0.2	+0.2	+0.0	43.7	46.0	-2.3	Black
4	328.893k	40.4	+0.2	+6.2	+0.1	+0.1	+0.0	47.0	49.5	-2.5	Black

5	275.079k	41.9	+0.2	+6.1	+0.1	+0.1	+0.0	48.4	51.0	-2.6	Black
6	3.386M	36.7	+0.1	+6.2	+0.2	+0.2	+0.0	43.4	46.0	-2.6	Black
7	272.898k	41.8	+0.2	+6.1	+0.1	+0.1	+0.0	48.3	51.0	-2.7	Black
8	3.335M	36.4	+0.1	+6.2	+0.1	+0.2	+0.0	43.0	46.0	-3.0	Black
9	3.850M	36.3	+0.1	+6.2	+0.2	+0.2	+0.0	43.0	46.0	-3.0	Black
10	3.165M	36.2	+0.1	+6.2	+0.1	+0.2	+0.0	42.8	46.0	-3.2	Black
11	3.433M	36.1	+0.1	+6.2	+0.2	+0.2	+0.0	42.8	46.0	-3.2	Black
12	3.548M	36.0	+0.1	+6.2	+0.2	+0.2	+0.0	42.7	46.0	-3.3	Black
13	3.650M	35.8	+0.1	+6.2	+0.2	+0.2	+0.0	42.5	46.0	-3.5	Black
14	326.711k	39.3	+0.2	+6.2	+0.1	+0.1	+0.0	45.9	49.5	-3.6	Black
15	502.221k Ave	34.4	+0.2	+6.2	+0.1	+0.1	+0.0	41.0	46.0	-5.0	Black
^	500.513k	44.0	+0.2	+6.2	+0.1	+0.1	+0.0	50.6	46.0	+4.6	Black
17	500.463k Ave	33.9	+0.2	+6.2	+0.1	+0.1	+0.0	40.5	46.0	-5.5	Black
18	359.955k Ave	36.0	+0.2	+6.2	+0.1	+0.0	+0.0	42.5	48.7	-6.2	Black
19	1.003M Ave	31.7	+0.1	+6.1	+0.0	+0.1	+0.0	38.0	46.0	-8.0	Black
20	795.032k Ave	31.1	+0.1	+6.1	+0.1	+0.1	+0.0	37.5	46.0	-8.5	Black
^	795.032k	43.8	+0.1	+6.1	+0.1	+0.1	+0.0	50.2	46.0	+4.2	Black
22	996.281k Ave	30.4	+0.1	+6.1	+0.0	+0.1	+0.0	36.7	46.0	-9.3	Black
^	996.281k	44.1	+0.1	+6.1	+0.0	+0.1	+0.0	50.4	46.0	+4.4	Black
24	1.434M Ave	29.7	+0.1	+6.1	+0.0	+0.1	+0.0	36.0	46.0	-10.0	Black
^	1.434M	42.1	+0.1	+6.1	+0.0	+0.1	+0.0	48.4	46.0	+2.4	Black
26	856.414k Ave	29.5	+0.1	+6.1	+0.0	+0.1	+0.0	35.8	46.0	-10.2	Black
^	854.663k	44.7	+0.1	+6.1	+0.0	+0.1	+0.0	51.0	46.0	+5.0	Black
28	1.498M Ave	29.1	+0.1	+6.1	+0.1	+0.1	+0.0	35.5	46.0	-10.5	Black
^	1.498M	42.6	+0.1	+6.1	+0.1	+0.1	+0.0	49.0	46.0	+3.0	Black

30	2.634M Ave	28.6	+0.1	+6.2	+0.1	+0.2	+0.0	35.2	46.0	-10.8	Black
^	2.634M	44.2	+0.1	+6.2	+0.1	+0.2	+0.0	50.8	46.0	+4.8	Black
32	1.949M Ave	28.3	+0.1	+6.1	+0.1	+0.1	+0.0	34.7	46.0	-11.3	Black
^	1.949M	42.0	+0.1	+6.1	+0.1	+0.1	+0.0	48.4	46.0	+2.4	Black
34	2.583M Ave	27.6	+0.1	+6.2	+0.1	+0.2	+0.0	34.2	46.0	-11.8	Black
^	2.583M	45.2	+0.1	+6.2	+0.1	+0.2	+0.0	51.8	46.0	+5.8	Black
36	2.404M Ave	27.5	+0.1	+6.2	+0.1	+0.2	+0.0	34.1	46.0	-11.9	Black
^	2.404M	42.2	+0.1	+6.2	+0.1	+0.2	+0.0	48.8	46.0	+2.8	Black
38	2.906M Ave	24.5	+0.1	+6.2	+0.1	+0.2	+0.0	31.1	46.0	-14.9	Black
^	2.906M	41.2	+0.1	+6.2	+0.1	+0.2	+0.0	47.8	46.0	+1.8	Black
40	1.817M Ave	24.6	+0.1	+6.1	+0.1	+0.1	+0.0	31.0	46.0	-15.0	Black
^	1.817M	41.5	+0.1	+6.1	+0.1	+0.1	+0.0	47.9	46.0	+1.9	Black
42	3.114M Ave	24.0	+0.1	+6.2	+0.1	+0.2	+0.0	30.6	46.0	-15.4	Black
^	3.114M	39.0	+0.1	+6.2	+0.1	+0.2	+0.0	45.6	46.0	-0.4	Black
44	3.004M Ave	23.9	+0.1	+6.2	+0.1	+0.2	+0.0	30.5	46.0	-15.5	Black
^	3.004M	39.1	+0.1	+6.2	+0.1	+0.2	+0.0	45.7	46.0	-0.3	Black
46	528.874k Ave	19.5	+0.2	+6.2	+0.1	+0.1	+0.0	26.1	46.0	-19.9	Black
^	528.874k	41.5	+0.2	+6.2	+0.1	+0.1	+0.0	48.1	46.0	+2.1	Black
48	613.957k Ave	17.2	+0.2	+6.1	+0.1	+0.1	+0.0	23.7	46.0	-22.3	Black
^	613.957k	43.3	+0.2	+6.1	+0.1	+0.1	+0.0	49.8	46.0	+3.8	Black
50	395.068k Ave	12.4	+0.2	+6.2	+0.1	+0.0	+0.0	18.9	48.0	-29.1	Black
^	395.069k	45.2	+0.2	+6.2	+0.1	+0.0	+0.0	51.7	48.0	+3.7	Black

52	315.803k Ave	14.0	+0.2	+6.2	+0.1	+0.1	+0.0	20.6	49.8	-29.2	Black
^	315.803k	44.3	+0.2	+6.2	+0.1	+0.1	+0.0	50.9	49.8	+1.1	Black
54	320.893k Ave	11.2	+0.2	+6.2	+0.1	+0.1	+0.0	17.8	49.7	-31.9	Black
^	320.893k	42.7	+0.2	+6.2	+0.1	+0.1	+0.0	49.3	49.7	-0.4	Black



Test Location: CKC Laboratories, Inc. •110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer:	**Synapse Product Development, LLC**		
Specification:	**FCC 15.107 Class B COND [AVE]**		
Work Order #:	**87002**	Date:	9/15/2007
Test Type:	**Conducted Emissions**	Time:	08:50:02
Equipment:	**WiFi and Bluetooth Enabled Media Player**	Sequence#:	53
Manufacturer:	Haier America LLC	Tested By:	E. Wong
Model:	MW101AQ		110V 60Hz
S/N:	NA		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
LISN	1104	11/10/2006	11/10/2008	00847
6dB Attenuator	None	11/21/2006	11/21/2008	P05611
150kHz HPF	G7755	01/30/2006	01/30/2008	02610
Conducted Emission Cable	Cable #21	05/09/2006	05/09/2008	P04358

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
AC Power Supply	Haier America LLC	LSD-D03	NA
WiFi and Bluetooth Enabled Media Player*	Haier America LLC	MW101AQ	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

The EUT is placed on the wooden table. A set of earphones is connected to the Audio port. Docking port is connected to a section of unterminated cable. USB port is connected to an AC power supply. The EUT is operating on Max power. Mode: Transmit and receives. in 802.11g mode, middle channel. Display and hard drives are exercised. 22°C, 49% relative humidity. Cost reduced Power supply design.

Transducer Legend:

T1=150kHz HPF Asset 02610	T2=6dB Attenuator P05611
T3=Cable #21 Conducted Site A 050908	T4=(L2) Insertion Loss 00847 EMCO 3816/2NM

Measurement Data: Reading listed by margin. Test Lead: White

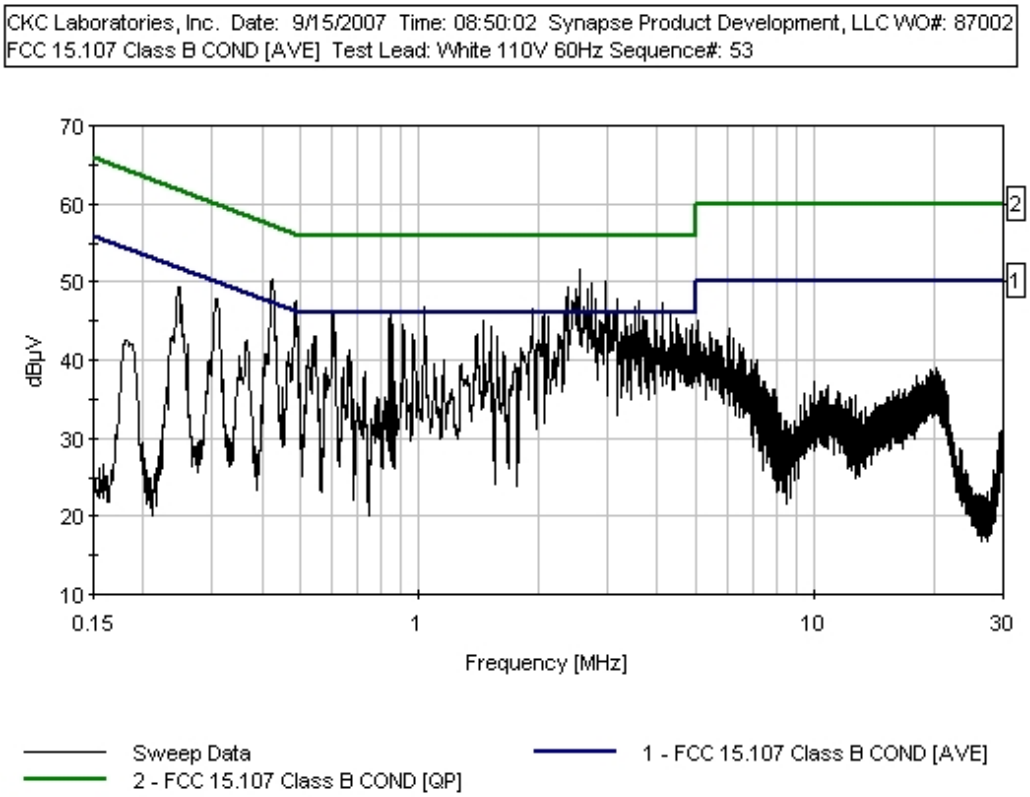
#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV	Spec dBµV	Margin dB	Polar Ant
1	4.730M	37.3	+0.1	+6.2	+0.2	+0.2	+0.0	44.0	46.0	-2.0	White
2	309.985k	41.3	+0.2	+6.2	+0.1	+0.1	+0.0	47.9	50.0	-2.1	White
3	3.654M	37.1	+0.1	+6.2	+0.2	+0.2	+0.0	43.8	46.0	-2.2	White
4	3.969M	37.0	+0.1	+6.2	+0.2	+0.2	+0.0	43.7	46.0	-2.3	White
5	4.849M	37.0	+0.1	+6.2	+0.2	+0.2	+0.0	43.7	46.0	-2.3	White

6	4.871M	36.9	+0.1	+6.2	+0.2	+0.2	+0.0	43.6	46.0	-2.4	White
7	247.446k	42.8	+0.2	+6.1	+0.1	+0.1	+0.0	49.3	51.8	-2.5	White
8	613.957k	37.0	+0.2	+6.1	+0.1	+0.1	+0.0	43.5	46.0	-2.5	White
9	3.250M	36.9	+0.1	+6.2	+0.1	+0.2	+0.0	43.5	46.0	-2.5	White
10	4.369M	36.8	+0.1	+6.2	+0.2	+0.2	+0.0	43.5	46.0	-2.5	White
11	1.396M	37.1	+0.1	+6.1	+0.0	+0.1	+0.0	43.4	46.0	-2.6	White
12	966.512k	37.0	+0.1	+6.1	+0.0	+0.1	+0.0	43.3	46.0	-2.7	White
13	2.242M	36.6	+0.1	+6.2	+0.1	+0.2	+0.0	43.2	46.0	-2.8	White
14	545.600k	36.6	+0.2	+6.1	+0.1	+0.1	+0.0	43.1	46.0	-2.9	White
15	3.714M	36.4	+0.1	+6.2	+0.2	+0.2	+0.0	43.1	46.0	-2.9	White
16	3.276M	36.4	+0.1	+6.2	+0.1	+0.2	+0.0	43.0	46.0	-3.0	White
17	3.620M	36.3	+0.1	+6.2	+0.2	+0.2	+0.0	43.0	46.0	-3.0	White
18	1.579M	36.5	+0.1	+6.1	+0.1	+0.1	+0.0	42.9	46.0	-3.1	White
19	3.399M	36.2	+0.1	+6.2	+0.2	+0.2	+0.0	42.9	46.0	-3.1	White
20	4.080M	36.2	+0.1	+6.2	+0.2	+0.2	+0.0	42.9	46.0	-3.1	White
21	3.795M	36.1	+0.1	+6.2	+0.2	+0.2	+0.0	42.8	46.0	-3.2	White
22	3.178M	36.1	+0.1	+6.2	+0.1	+0.2	+0.0	42.7	46.0	-3.3	White
23	3.391M	36.0	+0.1	+6.2	+0.2	+0.2	+0.0	42.7	46.0	-3.3	White
24	4.649M	36.0	+0.1	+6.2	+0.2	+0.2	+0.0	42.7	46.0	-3.3	White
25	4.343M	35.9	+0.1	+6.2	+0.2	+0.2	+0.0	42.6	46.0	-3.4	White
26	3.357M	35.6	+0.1	+6.2	+0.2	+0.2	+0.0	42.3	46.0	-3.7	White
27	4.182M	35.4	+0.1	+6.2	+0.2	+0.2	+0.0	42.1	46.0	-3.9	White
28	4.751M	35.3	+0.1	+6.2	+0.2	+0.2	+0.0	42.0	46.0	-4.0	White
29	4.956M	35.3	+0.1	+6.2	+0.2	+0.2	+0.0	42.0	46.0	-4.0	White

30	1.809M	35.0	+0.1	+6.1	+0.1	+0.1	+0.0	41.4	46.0	-4.6	White
31	522.330k	34.7	+0.2	+6.2	+0.1	+0.1	+0.0	41.3	46.0	-4.7	White
32	668.498k	34.8	+0.2	+6.1	+0.1	+0.1	+0.0	41.3	46.0	-4.7	White
33	5.092M	38.3	+0.1	+6.2	+0.2	+0.2	+0.0	45.0	50.0	-5.0	White
34	2.544M Ave	21.5	+0.1	+6.2	+0.1	+0.2	+0.0	28.1	46.0	-17.9	White
^	2.544M	45.1	+0.1	+6.2	+0.1	+0.2	+0.0	51.7	46.0	+5.7	White
36	2.668M Ave	21.2	+0.1	+6.2	+0.1	+0.2	+0.0	27.8	46.0	-18.2	White
^	2.668M	42.6	+0.1	+6.2	+0.1	+0.2	+0.0	49.2	46.0	+3.2	White
38	2.366M Ave	21.2	+0.1	+6.2	+0.1	+0.2	+0.0	27.8	46.0	-18.2	White
^	2.366M	42.7	+0.1	+6.2	+0.1	+0.2	+0.0	49.3	46.0	+3.3	White
40	2.731M Ave	21.1	+0.1	+6.2	+0.1	+0.2	+0.0	27.7	46.0	-18.3	White
^	2.731M	43.2	+0.1	+6.2	+0.1	+0.2	+0.0	49.8	46.0	+3.8	White
42	2.383M Ave	20.9	+0.1	+6.2	+0.1	+0.2	+0.0	27.5	46.0	-18.5	White
^	2.383M	38.8	+0.1	+6.2	+0.1	+0.2	+0.0	45.4	46.0	-0.6	White
44	2.791M Ave	18.7	+0.1	+6.2	+0.1	+0.2	+0.0	25.3	46.0	-20.7	White
^	2.791M	41.3	+0.1	+6.2	+0.1	+0.2	+0.0	47.9	46.0	+1.9	White
46	2.319M Ave	18.4	+0.1	+6.2	+0.1	+0.2	+0.0	25.0	46.0	-21.0	White
^	2.319M	38.7	+0.1	+6.2	+0.1	+0.2	+0.0	45.3	46.0	-0.7	White
48	2.970M Ave	18.4	+0.1	+6.2	+0.1	+0.2	+0.0	25.0	46.0	-21.0	White
^	2.970M	43.6	+0.1	+6.2	+0.1	+0.2	+0.0	50.2	46.0	+4.2	White
50	3.943M Ave	17.5	+0.1	+6.2	+0.2	+0.2	+0.0	24.2	46.0	-21.8	White
^	3.943M	39.7	+0.1	+6.2	+0.2	+0.2	+0.0	46.4	46.0	+0.4	White
52	3.335M Ave	17.4	+0.1	+6.2	+0.1	+0.2	+0.0	24.0	46.0	-22.0	White
^	3.335M	39.2	+0.1	+6.2	+0.1	+0.2	+0.0	45.8	46.0	-0.2	White

54	4.305M Ave	17.1	+0.1	+6.2	+0.2	+0.2	+0.0	23.8	46.0	-22.2	White
^	4.305M	39.1	+0.1	+6.2	+0.2	+0.2	+0.0	45.8	46.0	-0.2	White
56	3.157M Ave	17.0	+0.1	+6.2	+0.1	+0.2	+0.0	23.6	46.0	-22.4	White
^	3.157M	41.3	+0.1	+6.2	+0.1	+0.2	+0.0	47.9	46.0	+1.9	White
^	3.165M	36.9	+0.1	+6.2	+0.1	+0.2	+0.0	43.5	46.0	-2.5	White
59	4.488M Ave	16.8	+0.1	+6.2	+0.2	+0.2	+0.0	23.5	46.0	-22.5	White
^	4.488M	38.7	+0.1	+6.2	+0.2	+0.2	+0.0	45.4	46.0	-0.6	White
61	4.143M Ave	16.6	+0.1	+6.2	+0.2	+0.2	+0.0	23.3	46.0	-22.7	White
^	4.143M	37.7	+0.1	+6.2	+0.2	+0.2	+0.0	44.4	46.0	-1.6	White
63	4.126M Ave	16.6	+0.1	+6.2	+0.2	+0.2	+0.0	23.3	46.0	-22.7	White
^	4.126M	40.6	+0.1	+6.2	+0.2	+0.2	+0.0	47.3	46.0	+1.3	White
65	4.913M Ave	16.5	+0.1	+6.2	+0.2	+0.2	+0.0	23.2	46.0	-22.8	White
^	4.913M	37.8	+0.1	+6.2	+0.2	+0.2	+0.0	44.5	46.0	-1.5	White
67	1.940M Ave	16.8	+0.1	+6.1	+0.1	+0.1	+0.0	23.2	46.0	-22.8	White
^	1.940M	40.2	+0.1	+6.1	+0.1	+0.1	+0.0	46.6	46.0	+0.6	White
69	3.582M Ave	16.1	+0.1	+6.2	+0.2	+0.2	+0.0	22.8	46.0	-23.2	White
^	3.582M	40.9	+0.1	+6.2	+0.2	+0.2	+0.0	47.6	46.0	+1.6	White
71	577.525k Ave	15.9	+0.2	+6.1	+0.1	+0.1	+0.0	22.4	46.0	-23.6	White
72	424.157k Ave	17.2	+0.2	+6.2	+0.1	+0.1	+0.0	23.8	47.4	-23.6	White
^	424.157k	43.7	+0.2	+6.2	+0.1	+0.1	+0.0	50.3	47.4	+2.9	White
74	848.845k Ave	12.5	+0.1	+6.1	+0.0	+0.1	+0.0	18.8	46.0	-27.2	White
75	848.845k Ave	11.3	+0.1	+6.1	+0.0	+0.1	+0.0	17.6	46.0	-28.4	White
^	848.845k	39.9	+0.1	+6.1	+0.0	+0.1	+0.0	46.2	46.0	+0.2	White
77	1.519M Ave	10.0	+0.1	+6.1	+0.1	+0.1	+0.0	16.4	46.0	-29.6	White
^	1.519M	37.9	+0.1	+6.1	+0.1	+0.1	+0.0	44.3	46.0	-1.7	White

79	839.391k Ave	9.9	+0.1	+6.1	+0.0	+0.1	+0.0	16.2	46.0	-29.8	White
^	839.391k	38.9	+0.1	+6.1	+0.0	+0.1	+0.0	45.2	46.0	-0.8	White
81	1.030M Ave	9.0	+0.1	+6.1	+0.0	+0.1	+0.0	15.3	46.0	-30.7	White
^	1.030M	40.6	+0.1	+6.1	+0.0	+0.1	+0.0	46.9	46.0	+0.9	White
83	603.777k Ave	6.8	+0.2	+6.1	+0.1	+0.1	+0.0	13.3	46.0	-32.7	White
^	603.777k	39.4	+0.2	+6.1	+0.1	+0.1	+0.0	45.9	46.0	-0.1	White
^	600.868k	36.1	+0.2	+6.1	+0.1	+0.1	+0.0	42.6	46.0	-3.4	White



Test Location: CKC Laboratories, Inc. •110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer:	**Synapse Product Development, LLC**		
Specification:	**FCC 15.107 Class B COND [AVE]**		
Work Order #:	**86173**	Date:	9/15/2007
Test Type:	**Conducted Emissions**	Time:	07:16:27
Equipment:	**WiFi and Bluetooth Enabled Media Player**	Sequence#:	55
Manufacturer:	Haier America LLC	Tested By:	E. Wong
Model:	MW101AQ		110V 60Hz
S/N:	NA		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
LISN	1104	11/10/2006	11/10/2008	00847
6dB Attenuator	None	11/21/2006	11/21/2008	P05611
150kHz HPF	G7755	01/30/2006	01/30/2008	02610
Conducted Emission Cable	Cable #21	05/09/2006	05/09/2008	P04358

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
AC Power Supply	Haier America LLC	LSD-D03	NA
WiFi and Bluetooth Enabled Media Player*	Haier America LLC	MW101AQ	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

The EUT is placed on the wooden table. A set of earphones is connected to the Audio port. Docking port is connected to a section of unterminated cable. USB port is connected to an AC power supply. The EUT is operating on Max power. Mode: Transmit and receives. hopping, transmit audio data in Bluetooth signal. Display and hard drives are exercised. 22°C, 49% relative humidity. Cost reduced Power supply design.

Transducer Legend:

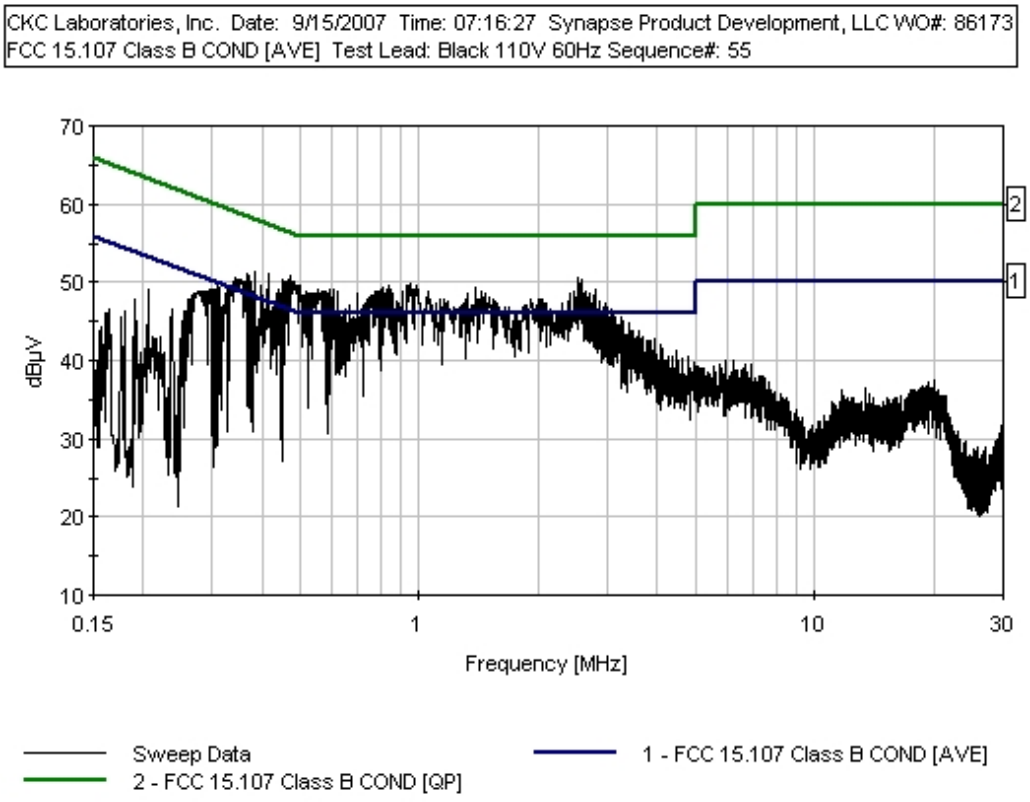
T1=150kHz HPF Asset 02610	T2=6dB Attenuator P05611
T3=Cable #21 Conducted Site A 050908	T4=(L1) Insertion Loss 00847 EMCO 3816/2NM

Measurement Data: Reading listed by margin. Test Lead: Black

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV	Spec dBµV	Margin dB	Polar Ant
1	388.331k Ave	31.9	+0.2	+6.2	+0.1	+0.0	+0.0	38.4	48.1	-9.7	Black
2	398.703k Ave	30.0	+0.2	+6.2	+0.1	+0.0	+0.0	36.5	47.9	-11.4	Black
^	398.704k	43.0	+0.2	+6.2	+0.1	+0.0	+0.0	49.5	47.9	+1.6	Black
4	444.926k Ave	28.7	+0.2	+6.2	+0.1	+0.0	+0.0	35.2	47.0	-11.8	Black
5	616.433k Ave	26.8	+0.2	+6.1	+0.1	+0.1	+0.0	33.3	46.0	-12.7	Black

6 Ave	742.672k	26.5	+0.1	+6.1	+0.1	+0.1	+0.0	32.9	46.0	-13.1	Black
^	742.672k	41.4	+0.1	+6.1	+0.1	+0.1	+0.0	47.8	46.0	+1.8	Black
8 Ave	622.683k	24.7	+0.2	+6.1	+0.1	+0.1	+0.0	31.2	46.0	-14.8	Black
^	622.683k	40.4	+0.2	+6.1	+0.1	+0.1	+0.0	46.9	46.0	+0.9	Black
10 Ave	388.331k	26.4	+0.2	+6.2	+0.1	+0.0	+0.0	32.9	48.1	-15.2	Black
^	388.331k	45.0	+0.2	+6.2	+0.1	+0.0	+0.0	51.5	48.1	+3.4	Black
^	384.159k	42.8	+0.2	+6.2	+0.1	+0.0	+0.0	49.3	48.2	+1.1	Black
13 Ave	384.159k	26.1	+0.2	+6.2	+0.1	+0.0	+0.0	32.6	48.2	-15.6	Black
14 Ave	2.765M	23.3	+0.1	+6.2	+0.1	+0.2	+0.0	29.9	46.0	-16.1	Black
^	2.765M	41.8	+0.1	+6.2	+0.1	+0.2	+0.0	48.4	46.0	+2.4	Black
16 Ave	2.778M	23.0	+0.1	+6.2	+0.1	+0.2	+0.0	29.6	46.0	-16.4	Black
^	2.778M	42.5	+0.1	+6.2	+0.1	+0.2	+0.0	49.1	46.0	+3.1	Black
18 Ave	2.591M	23.0	+0.1	+6.2	+0.1	+0.2	+0.0	29.6	46.0	-16.4	Black
^	2.591M	43.8	+0.1	+6.2	+0.1	+0.2	+0.0	50.4	46.0	+4.4	Black
20 Ave	439.427k	23.3	+0.2	+6.2	+0.1	+0.0	+0.0	29.8	47.1	-17.3	Black
^	439.427k	42.7	+0.2	+6.2	+0.1	+0.0	+0.0	49.2	47.1	+2.1	Black
^	437.973k	42.1	+0.2	+6.2	+0.1	+0.0	+0.0	48.6	47.1	+1.5	Black
23 Ave	1.468M	21.8	+0.1	+6.1	+0.0	+0.1	+0.0	28.1	46.0	-17.9	Black
^	1.468M	42.2	+0.1	+6.1	+0.0	+0.1	+0.0	48.5	46.0	+2.5	Black
25 Ave	1.103M	21.3	+0.1	+6.1	+0.0	+0.1	+0.0	27.6	46.0	-18.4	Black
^	1.103M	41.1	+0.1	+6.1	+0.0	+0.1	+0.0	47.4	46.0	+1.4	Black
27 Ave	552.144k	20.9	+0.2	+6.1	+0.1	+0.1	+0.0	27.4	46.0	-18.6	Black
^	552.144k	42.5	+0.2	+6.1	+0.1	+0.1	+0.0	49.0	46.0	+3.0	Black
29 Ave	3.063M	20.7	+0.1	+6.2	+0.1	+0.2	+0.0	27.3	46.0	-18.7	Black
^	3.063M	40.0	+0.1	+6.2	+0.1	+0.2	+0.0	46.6	46.0	+0.6	Black

31	1.919M Ave	20.0	+0.1	+6.1	+0.1	+0.1	+0.0	26.4	46.0	-19.6	Black
^	1.919M	41.4	+0.1	+6.1	+0.1	+0.1	+0.0	47.8	46.0	+1.8	Black
33	852.480k Ave	20.0	+0.1	+6.1	+0.0	+0.1	+0.0	26.3	46.0	-19.7	Black
^	852.480k	42.3	+0.1	+6.1	+0.0	+0.1	+0.0	48.6	46.0	+2.6	Black
35	797.212k Ave	19.5	+0.1	+6.1	+0.1	+0.1	+0.0	25.9	46.0	-20.1	Black
^	797.212k	42.7	+0.1	+6.1	+0.1	+0.1	+0.0	49.1	46.0	+3.1	Black
37	415.429k Ave	20.6	+0.2	+6.2	+0.1	+0.0	+0.0	27.1	47.5	-20.4	Black
^	415.429k	44.6	+0.2	+6.2	+0.1	+0.0	+0.0	51.1	47.5	+3.6	Black
39	591.413k Ave	18.7	+0.2	+6.1	+0.1	+0.1	+0.0	25.2	46.0	-20.8	Black
^	591.413k	42.5	+0.2	+6.1	+0.1	+0.1	+0.0	49.0	46.0	+3.0	Black
41	365.979k Ave	20.7	+0.2	+6.2	+0.1	+0.0	+0.0	27.2	48.6	-21.4	Black
^	365.979k	44.0	+0.2	+6.2	+0.1	+0.0	+0.0	50.5	48.6	+1.9	Black
43	605.957k Ave	16.8	+0.2	+6.1	+0.1	+0.1	+0.0	23.3	46.0	-22.7	Black
^	605.957k	42.6	+0.2	+6.1	+0.1	+0.1	+0.0	49.1	46.0	+3.1	Black
45	512.148k Ave	14.2	+0.2	+6.2	+0.1	+0.1	+0.0	20.8	46.0	-25.2	Black
^	512.148k	41.7	+0.2	+6.2	+0.1	+0.1	+0.0	48.3	46.0	+2.3	Black


CKC Laboratories, Inc. Date: 9/15/2007 Time: 07:16:27 Synapse Product Development, LLC WO#: 86173
FCC 15.107 Class B COND [AVE] Test Lead: Black 110V 60Hz Sequence#: 55
70
60
50
40
30
20
10
dBµV
0.15
1
10
30
Frequency [MHz]
2
1
Sweep Data
2 - FCC 15.107 Class B COND [QP]
1 - FCC 15.107 Class B COND [AVE]

Test Location: CKC Laboratories, Inc. •110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer:	**Synapse Product Development, LLC**		
Specification:	**FCC 15.107 Class B COND [AVE]**		
Work Order #:	**86173**	Date:	9/15/2007
Test Type:	**Conducted Emissions**	Time:	07:36:37
Equipment:	**WiFi and Bluetooth Enabled Media Player**	Sequence#:	56
Manufacturer:	Haier America LLC	Tested By:	E. Wong
Model:	MW101AQ		110V 60Hz
S/N:	NA		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
LISN	1104	11/10/2006	11/10/2008	00847
6dB Attenuator	None	11/21/2006	11/21/2008	P05611
150kHz HPF	G7755	01/30/2006	01/30/2008	02610
Conducted Emission Cable	Cable #21	05/09/2006	05/09/2008	P04358

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
AC Power Supply	Haier America LLC	LSD-D03	NA
WiFi and Bluetooth Enabled Media Player*	Haier America LLC	MW101AQ	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

The EUT is placed on the wooden table. A set of earphones is connected to the Audio port. Docking port is connected to a section of unterminated cable. USB port is connected to an AC power supply. The EUT is operating on Max power. Mode: Transmit and receives. hopping, transmit audio data in Bluetooth signal. Display and hard drives are exercised. 22°C, 49% relative humidity. Cost reduced Power supply design.

Transducer Legend:

T1=150kHz HPF Asset 02610	T2=6dB Attenuator P05611
T3=Cable #21 Conducted Site A 050908	T4=(L2) Insertion Loss 00847 EMCO 3816/2NM

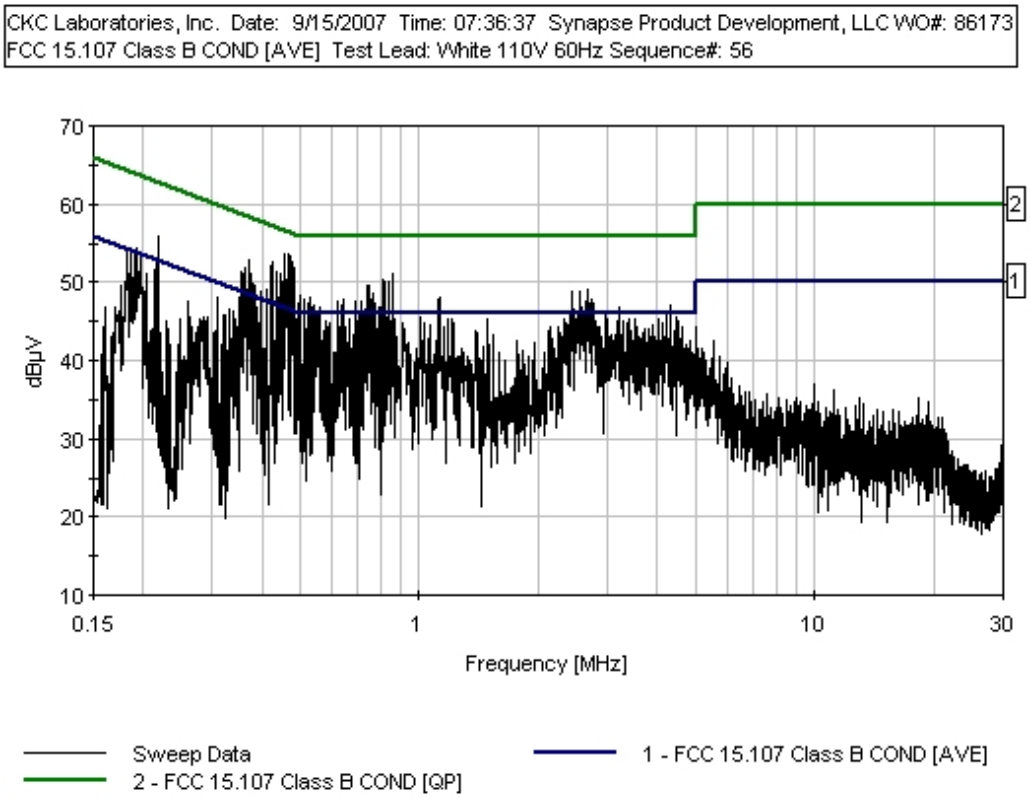
Measurement Data: Reading listed by margin. Test Lead: White

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV	Spec dBµV	Margin dB	Polar Ant
1 Ave	159.859k	32.6	+0.6	+6.2	+0.1	+0.2	+0.0	39.7	55.5	-15.8	White
^	159.859k	48.0	+0.6	+6.2	+0.1	+0.2	+0.0	55.1	55.5	-0.4	White
3 Ave	2.621M	19.6	+0.1	+6.2	+0.1	+0.2	+0.0	26.2	46.0	-19.8	White
^	2.621M	39.7	+0.1	+6.2	+0.1	+0.2	+0.0	46.3	46.0	+0.3	White

5	2.472M Ave	18.9	+0.1	+6.2	+0.1	+0.2	+0.0	25.5	46.0	-20.5	White
^	2.472M	39.1	+0.1	+6.2	+0.1	+0.2	+0.0	45.7	46.0	-0.3	White
7	510.693k Ave	17.2	+0.2	+6.2	+0.1	+0.1	+0.0	23.8	46.0	-22.2	White
^	510.693k	41.1	+0.2	+6.2	+0.1	+0.1	+0.0	47.7	46.0	+1.7	White
9	2.668M Ave	17.1	+0.1	+6.2	+0.1	+0.2	+0.0	23.7	46.0	-22.3	White
^	2.668M	42.5	+0.1	+6.2	+0.1	+0.2	+0.0	49.1	46.0	+3.1	White
11	621.956k Ave	14.1	+0.2	+6.1	+0.1	+0.1	+0.0	20.6	46.0	-25.4	White
^	621.956k	41.0	+0.2	+6.1	+0.1	+0.1	+0.0	47.5	46.0	+1.5	White
13	472.151k Ave	14.4	+0.2	+6.2	+0.1	+0.1	+0.0	21.0	46.5	-25.5	White
^	472.151k	46.7	+0.2	+6.2	+0.1	+0.1	+0.0	53.3	46.5	+6.8	White
^	474.333k	39.6	+0.2	+6.2	+0.1	+0.1	+0.0	46.2	46.4	-0.2	White
16	1.115M Ave	13.9	+0.1	+6.1	+0.0	+0.1	+0.0	20.2	46.0	-25.8	White
^	1.115M	41.4	+0.1	+6.1	+0.0	+0.1	+0.0	47.7	46.0	+1.7	White
18	484.514k Ave	13.5	+0.2	+6.2	+0.1	+0.1	+0.0	20.1	46.3	-26.2	White
19	792.122k Ave	13.1	+0.1	+6.1	+0.1	+0.1	+0.0	19.5	46.0	-26.5	White
^	792.122k	40.4	+0.1	+6.1	+0.1	+0.1	+0.0	46.8	46.0	+0.8	White
21	745.581k Ave	12.5	+0.1	+6.1	+0.1	+0.1	+0.0	18.9	46.0	-27.1	White
^	745.581k	43.3	+0.1	+6.1	+0.1	+0.1	+0.0	49.7	46.0	+3.7	White
23	484.514k Ave	12.5	+0.2	+6.2	+0.1	+0.1	+0.0	19.1	46.3	-27.2	White
^	484.514k	45.3	+0.2	+6.2	+0.1	+0.1	+0.0	51.9	46.3	+5.6	White
25	2.748M Ave	11.8	+0.1	+6.2	+0.1	+0.2	+0.0	18.4	46.0	-27.6	White
^	2.748M	38.8	+0.1	+6.2	+0.1	+0.2	+0.0	45.4	46.0	-0.6	White
27	4.207M Ave	11.5	+0.1	+6.2	+0.2	+0.2	+0.0	18.2	46.0	-27.8	White
^	4.207M	39.1	+0.1	+6.2	+0.2	+0.2	+0.0	45.8	46.0	-0.2	White

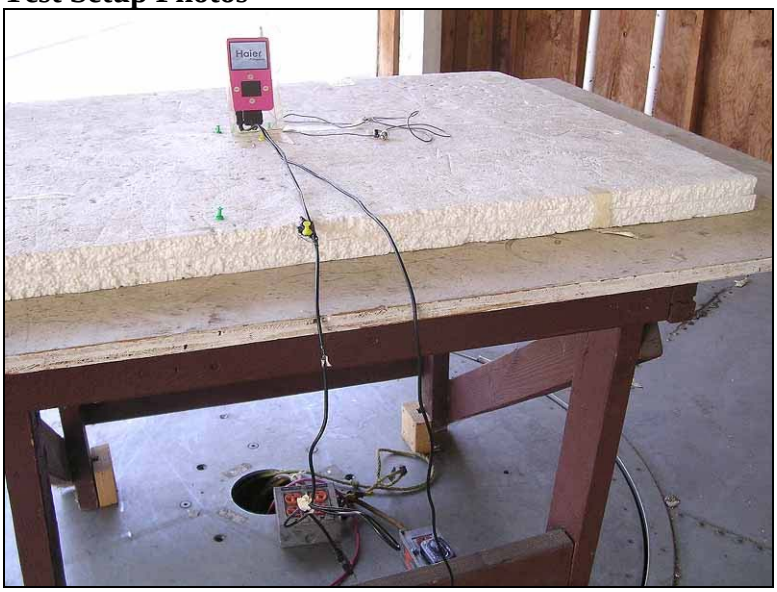
29	4.330M Ave	11.0	+0.1	+6.2	+0.2	+0.2	+0.0	17.7	46.0	-28.3	White
^	4.330M	40.3	+0.1	+6.2	+0.2	+0.2	+0.0	47.0	46.0	+1.0	White
31	371.070k Ave	12.3	+0.2	+6.2	+0.1	+0.1	+0.0	18.9	48.5	-29.6	White
^	371.070k	46.2	+0.2	+6.2	+0.1	+0.1	+0.0	52.8	48.5	+4.3	White
^	371.070k	39.8	+0.2	+6.2	+0.1	+0.1	+0.0	46.4	48.5	-2.1	White
34	811.029k Ave	10.0	+0.1	+6.1	+0.1	+0.1	+0.0	16.4	46.0	-29.6	White
^	811.029k	43.9	+0.1	+6.1	+0.1	+0.1	+0.0	50.3	46.0	+4.3	White
36	686.677k Ave	9.6	+0.2	+6.1	+0.1	+0.1	+0.0	16.1	46.0	-29.9	White
^	686.677k	41.0	+0.2	+6.1	+0.1	+0.1	+0.0	47.5	46.0	+1.5	White
38	456.880k Ave	10.1	+0.2	+6.2	+0.1	+0.1	+0.0	16.7	46.7	-30.0	White
^	456.880k	46.9	+0.2	+6.2	+0.1	+0.1	+0.0	53.5	46.7	+6.8	White
40	821.210k Ave	8.6	+0.1	+6.1	+0.1	+0.1	+0.0	15.0	46.0	-31.0	White
^	821.210k	43.6	+0.1	+6.1	+0.1	+0.1	+0.0	50.0	46.0	+4.0	White
42	840.117k Ave	8.4	+0.1	+6.1	+0.0	+0.1	+0.0	14.7	46.0	-31.3	White
^	840.118k	43.8	+0.1	+6.1	+0.0	+0.1	+0.0	50.1	46.0	+4.1	White
44	544.145k Ave	7.6	+0.2	+6.1	+0.1	+0.1	+0.0	14.1	46.0	-31.9	White
^	544.145k	40.5	+0.2	+6.1	+0.1	+0.1	+0.0	47.0	46.0	+1.0	White
^	540.509k	39.1	+0.2	+6.1	+0.1	+0.1	+0.0	45.6	46.0	-0.4	White
47	424.156k Ave	8.7	+0.2	+6.2	+0.1	+0.1	+0.0	15.3	47.4	-32.1	White
^	424.156k	46.0	+0.2	+6.2	+0.1	+0.1	+0.0	52.6	47.4	+5.2	White
49	362.343k Ave	9.3	+0.2	+6.2	+0.1	+0.1	+0.0	15.9	48.7	-32.8	White
^	362.343k	45.3	+0.2	+6.2	+0.1	+0.1	+0.0	51.9	48.7	+3.2	White
51	4.475M Ave	5.1	+0.1	+6.2	+0.2	+0.2	+0.0	11.8	46.0	-34.2	White
^	4.475M	38.8	+0.1	+6.2	+0.2	+0.2	+0.0	45.5	46.0	-0.5	White
53	4.475M Ave	5.1	+0.1	+6.2	+0.2	+0.2	+0.0	11.8	46.0	-34.2	White

54 Ave	197.995k	7.6	+0.2	+6.1	+0.1	+0.2	+0.0	14.2	53.7	-39.5	White
^	197.995k	46.7	+0.2	+6.1	+0.1	+0.2	+0.0	53.3	53.7	-0.4	White
^	196.540k	46.6	+0.2	+6.1	+0.1	+0.2	+0.0	53.2	53.8	-0.6	White
57 Ave	192.904k	7.2	+0.2	+6.1	+0.1	+0.2	+0.0	13.8	53.9	-40.1	White
^	192.904k	47.7	+0.2	+6.1	+0.1	+0.2	+0.0	54.3	53.9	+0.4	White
59 Ave	186.359k	6.8	+0.2	+6.1	+0.1	+0.2	+0.0	13.4	54.2	-40.8	White
^	186.359k	47.3	+0.2	+6.1	+0.1	+0.2	+0.0	53.9	54.2	-0.3	White
^	181.996k	47.2	+0.3	+6.1	+0.1	+0.2	+0.0	53.9	54.4	-0.5	White



FCC 15.109 – RADIATED EMISSIONS

Test Setup Photos



Test Data

Test Location:	CKC Laboratories, Inc. •110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112		
Customer:	**Synapse Product Development, LLC**		
Specification:	**FCC 15.109 Class B**		
Work Order #:	**87002**	Date:	9/15/2007
Test Type:	**Radiated Scan**	Time:	11:59:20
Equipment:	**WiFi and Bluetooth Enabled Media Player**	Sequence#:	80
Manufacturer:	Haier America LLC	Tested By:	E. Wong
Model:	MW101AQ		
S/N:	NA		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
Bilog Antenna	2451	02/02/2006	02/02/2008	01995
Pre amp to SA Cable	Cable #10	05/16/2007	05/16/2009	P05050
Cable	Cable15	01/05/2007	01/05/2009	P05198
Pre Amp	1937A02548	06/01/2006	06/01/2008	00309

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
AC Power Supply	Haier America LLC	LSD-D03	NA
WiFi and Bluetooth Enabled Media Player*	Haier America LLC	MW101AQ	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

The EUT is placed on the wooden table with 10 cm of Styrofoam material. A set of earphones is connected to the Audio port. Docking port is connected to a section of unterminated cable. USB port is connected to an AC power supply. The EUT is operating on Max power. Mode: Transmit and receive Digital power setting code = 15 Modulation: 802.11b (11mbs QPSK). Frequency: 2437MHz. Frequency range of measurement = 30 MHz – 1000 MHz. 30 MHz - 1000 MHz RBW=120 kHz, VBW=120 kHz; 1000 MHz. The emission profile of all three orthogonal orientations were investigated during preliminary investigation. Worse case is EUT placed up right. 22°C, 53% relative humidity. Note: Evaluation of Cost reduced Power supply design.

Transducer Legend:

T1=Preamp 8447D 060108	T2=Bilog AN01995 020208 Chase
T3=Cable #10 051609	T4=Cable #15, Site A, 010509

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	38.900M QP	48.3	-27.8	+14.7	+0.1	+1.1	+0.0	36.4	40.0	-3.6	Vert
^	38.900M	52.7	-27.8	+14.7	+0.1	+1.1	+0.0	40.8	40.0	+0.8	Vert

3	46.561M	49.0	-27.7	+10.7	+0.1	+1.2	+0.0	33.3	40.0	-6.7	Vert
4	63.514M	52.4	-27.7	+6.1	+0.1	+1.4	+0.0	32.3	40.0	-7.7	Vert
5	57.061M	51.6	-27.7	+7.0	+0.1	+1.3	+0.0	32.3	40.0	-7.7	Vert
6	73.132M	51.3	-27.7	+6.5	+0.0	+1.5	+0.0	31.6	40.0	-8.4	Vert
7	57.811M	50.6	-27.7	+6.8	+0.1	+1.3	+0.0	31.1	40.0	-8.9	Vert
8	70.882M	49.3	-27.7	+6.2	+0.0	+1.5	+0.0	29.3	40.0	-10.7	Vert
9	60.335M	49.0	-27.7	+6.2	+0.1	+1.3	+0.0	28.9	40.0	-11.1	Vert
10	68.632M	49.0	-27.7	+6.0	+0.0	+1.5	+0.0	28.8	40.0	-11.2	Vert
11	66.006M	48.6	-27.7	+6.1	+0.0	+1.4	+0.0	28.4	40.0	-11.6	Vert
12	78.927M	46.4	-27.8	+7.4	+0.1	+1.6	+0.0	27.7	40.0	-12.3	Vert
13	70.132M	47.8	-27.7	+6.0	+0.0	+1.5	+0.0	27.6	40.0	-12.4	Vert
14	64.264M	47.7	-27.7	+6.1	+0.1	+1.4	+0.0	27.6	40.0	-12.4	Vert
15	465.420M	38.8	-27.6	+17.4	+0.4	+4.1	+0.0	33.1	46.0	-12.9	Vert
16	401.670M	40.9	-27.8	+15.8	+0.4	+3.7	+0.0	33.0	46.0	-13.0	Horiz
17	80.427M	45.0	-27.8	+7.6	+0.1	+1.6	+0.0	26.5	40.0	-13.5	Vert
18	217.043M	44.9	-27.6	+10.2	+0.2	+2.7	+0.0	30.4	46.0	-15.6	Vert
19	538.080M	33.2	-27.4	+19.3	+0.5	+4.4	+0.0	30.0	46.0	-16.0	Vert
20	434.330M	36.7	-27.7	+16.7	+0.4	+3.9	+0.0	30.0	46.0	-16.0	Vert
21	171.773M	42.9	-27.7	+9.6	+0.3	+2.4	+0.0	27.5	43.5	-16.0	Vert
22	38.250M	34.4	-27.8	+15.0	+0.1	+1.1	+0.0	22.8	40.0	-17.2	Horiz
23	174.023M	41.8	-27.7	+9.4	+0.3	+2.4	+0.0	26.2	43.5	-17.3	Vert
24	417.620M	35.6	-27.7	+16.3	+0.4	+3.8	+0.0	28.4	46.0	-17.6	Vert
25	458.530M	32.7	-27.6	+17.3	+0.4	+4.0	+0.0	26.8	46.0	-19.2	Vert
26	128.250M	37.6	-27.6	+11.5	+0.3	+2.0	+0.0	23.8	43.5	-19.7	Horiz
27	157.231M	37.7	-27.7	+10.4	+0.2	+2.3	+0.0	22.9	43.5	-20.6	Vert

28	185.620M	37.7	-27.7	+8.9	+0.3	+2.5	+0.0	21.7	43.5	-21.8	Vert
29	401.920M	31.1	-27.8	+15.9	+0.4	+3.7	+0.0	23.3	46.0	-22.7	Vert
30	113.250M	34.7	-27.6	+10.9	+0.3	+1.9	+0.0	20.2	43.5	-23.3	Horiz
31	232.793M	35.4	-27.6	+11.3	+0.2	+2.8	+0.0	22.1	46.0	-23.9	Vert
32	211.793M	34.7	-27.6	+9.7	+0.2	+2.6	+0.0	19.6	43.5	-23.9	Vert
33	207.101M	34.9	-27.6	+9.4	+0.2	+2.6	+0.0	19.5	43.5	-24.0	Vert
34	158.731M	34.2	-27.7	+10.3	+0.2	+2.3	+0.0	19.3	43.5	-24.2	Vert
35	208.793M	34.1	-27.6	+9.5	+0.2	+2.6	+0.0	18.8	43.5	-24.7	Vert
36	214.043M	32.5	-27.6	+9.9	+0.2	+2.7	+0.0	17.7	43.5	-25.8	Vert
37	210.293M	32.7	-27.6	+9.6	+0.2	+2.6	+0.0	17.5	43.5	-26.0	Vert
38	188.620M	33.5	-27.6	+8.9	+0.2	+2.5	+0.0	17.5	43.5	-26.0	Vert
39	159.481M	31.3	-27.7	+10.2	+0.2	+2.3	+0.0	16.3	43.5	-27.2	Vert
40	243.293M	29.6	-27.7	+12.0	+0.3	+2.8	+0.0	17.0	46.0	-29.0	Vert
41	236.543M	29.8	-27.6	+11.6	+0.2	+2.8	+0.0	16.8	46.0	-29.2	Vert
42	225.293M	30.6	-27.6	+10.8	+0.2	+2.7	+0.0	16.7	46.0	-29.3	Vert
43	221.543M	30.7	-27.6	+10.5	+0.2	+2.7	+0.0	16.5	46.0	-29.5	Vert
44	228.293M	27.9	-27.6	+11.0	+0.2	+2.7	+0.0	14.2	46.0	-31.8	Vert

Test Location: CKC Laboratories, Inc. •110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer:	**Synapse Product Development, LLC**		
Specification:	**FCC 15.109 Class B**		
Work Order #:	**87002**	Date:	9/15/2007
Test Type:	**Radiated Scan**	Time:	12:00:49
Equipment:	**WiFi and Bluetooth Enabled Media Player**	Sequence#:	81
Manufacturer:	Haier America LLC	Tested By:	E. Wong
Model:	MW101AQ		
S/N:	NA		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
Bilog Antenna	2451	02/02/2006	02/02/2008	01995
Pre amp to SA Cable	Cable #10	05/16/2007	05/16/2009	P05050
Cable	Cable15	01/05/2007	01/05/2009	P05198
Pre Amp	1937A02548	06/01/2006	06/01/2008	00309

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
AC Power Supply	Haier America LLC	LSD-D03	NA
WiFi and Bluetooth Enabled Media Player*	Haier America LLC	MW101AQ	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

The EUT is placed on the wooden table with 10 cm of Styrofoam material. A set of earphones is connected to the Audio port. Docking port is connected to a section of unterminated cable. USB port is connected to an AC power supply. The EUT is operating on Max power. Mode: Transmit and receive Digital power setting code = 15 Modulation: 802.11g (54mbs, OFDM-64QAM). Frequency: 2437MHz. Frequency range of measurement = 30 MHz – 1000 MHz. 30 MHz- 1000 MHz RBW=120 kHz, VBW=120 kHz; 1000 MHz. The emission profile of all three orthogonal orientations were investigated during preliminary investigation. Worse case is EUT placed up right. 22°C, 53% relative humidity. Note: Evaluation of Cost reduced Power supply design.

Transducer Legend:

T1=Preamp 8447D 060108	T2=Bilog AN01995 020208 Chase
T3=Cable #10 051609	T4=Cable #15, Site A, 010509

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	38.620M QP	47.4	-27.8	+14.9	+0.1	+1.1	+0.0	35.7	40.0	-4.3	Vert
^	38.620M	52.9	-27.8	+14.9	+0.1	+1.1	+0.0	41.2	40.0	+1.2	Vert

3	44.280M	47.5	-27.8	+11.8	+0.1	+1.1	+0.0	32.7	40.0	-7.3	Vert
4	62.950M	48.8	-27.7	+6.1	+0.1	+1.4	+0.0	28.7	40.0	-11.3	Vert
5	171.620M	47.3	-27.7	+9.6	+0.3	+2.4	+0.0	31.9	43.5	-11.6	Vert
6	42.270M	39.7	-27.8	+12.9	+0.1	+1.1	+0.0	26.0	40.0	-14.0	Horiz
7	68.450M	45.1	-27.7	+6.0	+0.0	+1.5	+0.0	24.9	40.0	-15.1	Horiz
8	417.850M	36.8	-27.7	+16.3	+0.4	+3.8	+0.0	29.6	46.0	-16.4	Horiz
9	430.300M	36.3	-27.7	+16.6	+0.4	+3.9	+0.0	29.5	46.0	-16.5	Horiz
10	474.950M	34.1	-27.6	+17.6	+0.3	+4.1	+0.0	28.5	46.0	-17.5	Horiz
11	401.920M	36.2	-27.8	+15.9	+0.4	+3.7	+0.0	28.4	46.0	-17.6	Vert
12	370.280M	36.5	-27.7	+15.0	+0.3	+3.6	+0.0	27.7	46.0	-18.3	Horiz
13	122.080M	38.9	-27.6	+11.4	+0.3	+2.0	+0.0	25.0	43.5	-18.5	Horiz
14	417.870M	34.2	-27.7	+16.3	+0.4	+3.8	+0.0	27.0	46.0	-19.0	Vert
15	313.420M	37.5	-27.6	+13.6	+0.2	+3.3	+0.0	27.0	46.0	-19.0	Horiz
16	465.430M	32.6	-27.6	+17.4	+0.4	+4.1	+0.0	26.9	46.0	-19.1	Vert
17	329.220M	36.6	-27.6	+14.0	+0.3	+3.4	+0.0	26.7	46.0	-19.3	Vert
18	401.820M	34.3	-27.8	+15.9	+0.4	+3.7	+0.0	26.5	46.0	-19.5	Horiz
19	458.330M	32.2	-27.6	+17.3	+0.4	+4.0	+0.0	26.3	46.0	-19.7	Vert
20	201.850M	39.0	-27.6	+9.0	+0.2	+2.6	+0.0	23.2	43.5	-20.3	Horiz
21	396.720M	33.5	-27.8	+15.7	+0.4	+3.7	+0.0	25.5	46.0	-20.5	Vert
22	324.030M	35.3	-27.6	+13.8	+0.2	+3.3	+0.0	25.0	46.0	-21.0	Horiz
23	474.670M	30.2	-27.6	+17.6	+0.3	+4.1	+0.0	24.6	46.0	-21.4	Vert
24	354.030M	33.0	-27.6	+14.6	+0.3	+3.5	+0.0	23.8	46.0	-22.2	Horiz
25	266.020M	34.7	-27.7	+12.7	+0.3	+3.0	+0.0	23.0	46.0	-23.0	Vert

26	385.670M	31.3	-27.7	+15.4	+0.4	+3.6	+0.0	23.0	46.0	-23.0	Horiz
27	206.950M	35.5	-27.6	+9.4	+0.2	+2.6	+0.0	20.1	43.5	-23.4	Vert
28	246.850M	34.8	-27.7	+12.3	+0.3	+2.9	+0.0	22.6	46.0	-23.4	Horiz
29	201.620M	34.3	-27.6	+8.9	+0.2	+2.6	+0.0	18.4	43.5	-25.1	Vert
30	232.330M	33.2	-27.6	+11.3	+0.2	+2.8	+0.0	19.9	46.0	-26.1	Vert
31	276.850M	31.2	-27.7	+12.9	+0.3	+3.0	+0.0	19.7	46.0	-26.3	Horiz

Test Location: CKC Laboratories, Inc. •110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer:	**Synapse Product Development, LLC**		
Specification:	**FCC 15.109 Class B**		
Work Order #:	**86173**	Date:	9/15/2007
Test Type:	**Radiated Scan**	Time:	16:16:54
Equipment:	**WiFi and Bluetooth Enabled Media Player**	Sequence#:	11
Manufacturer:	Haier America LLC	Tested By:	E. Wong
Model:	MW101AQ		
S/N:	NA		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
Bilog Antenna	2451	02/02/2006	02/02/2008	01995
Pre amp to SA Cable	Cable #10	05/16/2007	05/16/2009	P05050
Cable	Cable15	01/05/2007	01/05/2009	P05198
Pre Amp	1937A02548	06/01/2006	06/01/2008	00309

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
AC Power Supply	Haier America LLC	LSD-D03	NA
WiFi and Bluetooth Enabled Media Player*	Haier America LLC	MW101AQ	NA

Support Devices:

Function	Manufacturer	Model #	S/N
AC Power Supply	Haier America LLC	LSD-D03	NA

Test Conditions / Notes:

The EUT is placed on the wooden table with 10 cm of Styrofoam material.. A set of earphones is connected to the Audio port. Docking port is connected to a section of unterminated cable. USB port is connected to an AC power supply. The EUT is operating on Max power. Mode: Transmit and receive. Digital power setting code = 63. Modulation: Bluetooth. Frequency: 2441MHz. Frequency range of measurement = 30 MHz – 1000 MHz. 30 MHz - 1000 MHz RBW=120 kHz, VBW=120 kHz; 1000 MHz. The emission profile of all three orthogonal orientations was investigated. Worse case is EUT placed up right. 23°C, 49% relative humidity. Note: Evaluation of Cost reduced Power supply design.

Transducer Legend:

T1=Preamp 8447D 060108	T2=Bilog AN01995 020208 Chase
T3=Cable #10 051609	T4=Cable #15, Site A, 010509

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	41.817M	48.2	-27.8	+13.1	+0.1	+1.1	+0.0	34.7	40.0	-5.3	Vert

2	40.317M	47.2	-27.8	+14.0	+0.1	+1.1	+0.0	34.6	40.0	-5.4	Vert
3	38.250M QP	44.6	-27.8	+15.0	+0.1	+1.1	+0.0	33.0	40.0	-7.0	Vert
^	38.250M	49.5	-27.8	+15.0	+0.1	+1.1	+0.0	37.9	40.0	-2.1	Vert
5	433.620M	40.3	-27.7	+16.7	+0.4	+3.9	+0.0	33.6	46.0	-12.4	Horiz
6	207.330M	45.7	-27.6	+9.4	+0.2	+2.6	+0.0	30.3	43.5	-13.2	Horiz
7	264.400M	44.0	-27.7	+12.7	+0.3	+3.0	+0.0	32.3	46.0	-13.7	Horiz
8	361.080M	39.9	-27.6	+14.8	+0.3	+3.5	+0.0	30.9	46.0	-15.1	Horiz
9	401.780M	38.2	-27.8	+15.8	+0.4	+3.7	+0.0	30.3	46.0	-15.7	Horiz
10	369.880M	37.4	-27.7	+15.0	+0.3	+3.6	+0.0	28.6	46.0	-17.4	Horiz
11	51.070M	38.8	-27.7	+8.8	+0.1	+1.2	+0.0	21.2	40.0	-18.8	Horiz
12	433.900M	33.2	-27.7	+16.7	+0.4	+3.9	+0.0	26.5	46.0	-19.5	Vert
13	297.200M	37.3	-27.6	+13.2	+0.2	+3.2	+0.0	26.3	46.0	-19.7	Horiz
14	465.530M	31.8	-27.6	+17.4	+0.4	+4.1	+0.0	26.1	46.0	-19.9	Vert
15	304.700M	36.9	-27.6	+13.3	+0.2	+3.2	+0.0	26.0	46.0	-20.0	Horiz
16	417.830M	32.9	-27.7	+16.3	+0.4	+3.8	+0.0	25.7	46.0	-20.3	Vert
17	155.970M	37.5	-27.7	+10.5	+0.2	+2.3	+0.0	22.8	43.5	-20.7	Vert
18	386.050M	32.8	-27.7	+15.5	+0.4	+3.6	+0.0	24.6	46.0	-21.4	Horiz
19	474.020M	29.8	-27.6	+17.6	+0.4	+4.1	+0.0	24.3	46.0	-21.7	Horiz
20	490.350M	29.4	-27.6	+17.9	+0.3	+4.2	+0.0	24.2	46.0	-21.8	Vert
21	74.320M	37.2	-27.7	+6.7	+0.0	+1.5	+0.0	17.7	40.0	-22.3	Horiz
22	144.620M	35.2	-27.7	+11.2	+0.2	+2.2	+0.0	21.1	43.5	-22.4	Horiz
23	208.430M	35.2	-27.6	+9.5	+0.2	+2.6	+0.0	19.9	43.5	-23.6	Vert
24	231.970M	35.0	-27.6	+11.3	+0.2	+2.8	+0.0	21.7	46.0	-24.3	Horiz

25	232.480M	33.8	-27.6	+11.3	+0.2	+2.8	+0.0	20.5	46.0	-25.5	Vert
26	352.480M	28.4	-27.6	+14.6	+0.3	+3.5	+0.0	19.2	46.0	-26.8	Vert
27	195.870M	32.2	-27.6	+8.8	+0.2	+2.6	+0.0	16.2	43.5	-27.3	Vert
28	382.480M	25.6	-27.7	+15.4	+0.4	+3.6	+0.0	17.3	46.0	-28.7	Vert

FCC 15.207 – AC CONDUCTED EMISSIONS

ANALYZER BANDWIDTH SETTINGS PER FREQUENCY RANGE			
TEST	BEGINNING FREQUENCY	ENDING FREQUENCY	BANDWIDTH SETTING
CONDUCTED EMISSIONS	450 kHz	30 MHz	9 kHz

Test Setup Photos

Test Data

Test Location: CKC Laboratories, Inc. •110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer:	**Synapse Product Development, LLC**		
Specification:	**FCC 15.207 COND [AVE]**		
Work Order #:	**87002**	Date:	9/15/2007
Test Type:	**Conducted Emissions**	Time:	08:11:37
Equipment:	**WiFi and Bluetooth Enabled Media Player**	Sequence#:	51
Manufacturer:	Haier America LLC	Tested By:	E. Wong
Model:	MW101AQ		110V 60Hz
S/N:	NA		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
LISN	1104	11/10/2006	11/10/2008	00847
6dB Attenuator	None	11/21/2006	11/21/2008	P05611
150kHz HPF	G7755	01/30/2006	01/30/2008	02610
Conducted Emission Cable	Cable #21	05/09/2006	05/09/2008	P04358

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
AC Power Supply	Haier America LLC	LSD-D03	NA
WiFi and Bluetooth Enabled Media Player*	Haier America LLC	MW101AQ	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

The EUT is placed on the wooden table. A set of earphones is connected to the Audio port. Docking port is connected to a section of unterminated cable. USB port is connected to an AC power supply. The EUT is operating on Max power. Mode: Transmit and receive in 802.11b mode, middle channel. Display and hard drives are exercised. 22°C, 49% relative humidity. Cost reduced Power supply design.

Transducer Legend:

T1=150kHz HPF Asset 02610	T2=6dB Attenuator P05611
T3=Cable #21 Conducted Site A 050908	T4=(L1) Insertion Loss 00847 EMCO 3816/2NM

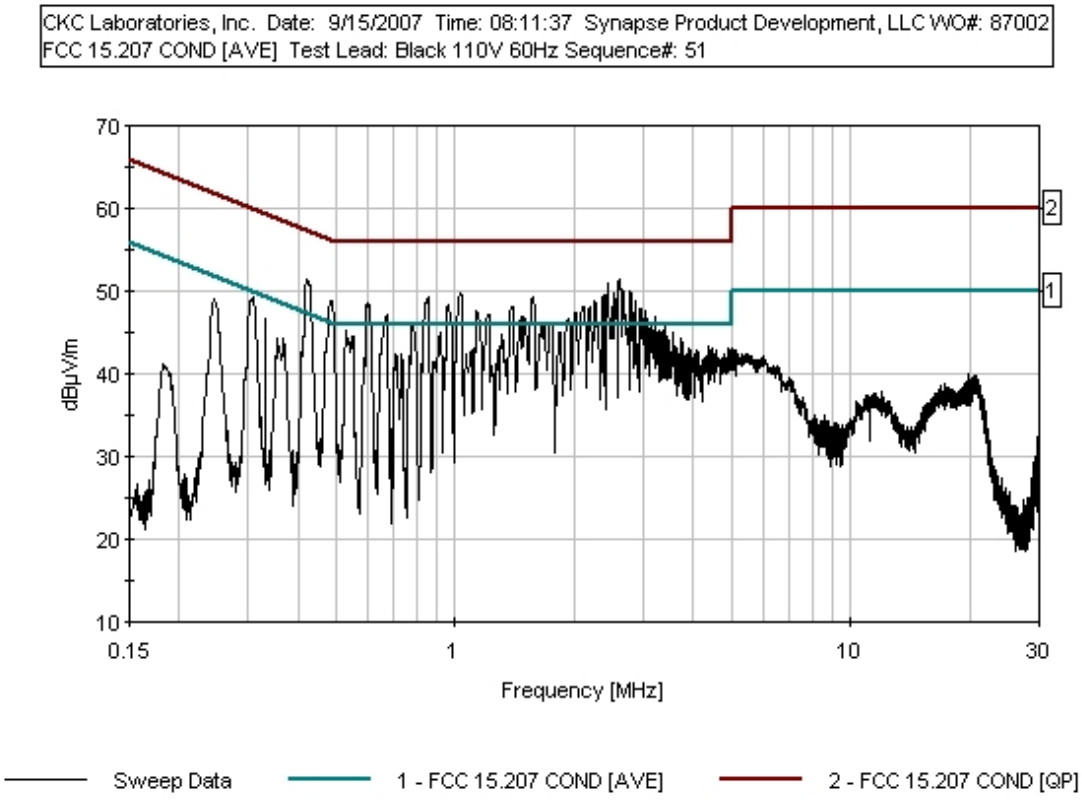
Measurement Data: Reading listed by margin. Test Lead: Black

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	3.603M	36.7	+0.1	+6.2	+0.2	+0.2	+0.0	43.4	46.0	-2.6	Black
2	4.386M	36.6	+0.1	+6.2	+0.2	+0.2	+0.0	43.3	46.0	-2.7	Black
3	330.347k	40.0	+0.2	+6.2	+0.1	+0.1	+0.0	46.6	49.4	-2.8	Black
4	4.985M	36.5	+0.1	+6.2	+0.2	+0.2	+0.0	43.2	46.0	-2.8	Black
5	246.718k	42.5	+0.2	+6.1	+0.1	+0.1	+0.0	49.0	51.9	-2.9	Black

6	3.650M	36.4	+0.1	+6.2	+0.2	+0.2	+0.0	43.1	46.0	-2.9	Black
7	3.909M	36.3	+0.1	+6.2	+0.2	+0.2	+0.0	43.0	46.0	-3.0	Black
8	4.449M	36.3	+0.1	+6.2	+0.2	+0.2	+0.0	43.0	46.0	-3.0	Black
9	4.088M	36.2	+0.1	+6.2	+0.2	+0.2	+0.0	42.9	46.0	-3.1	Black
10	4.569M	36.2	+0.1	+6.2	+0.2	+0.2	+0.0	42.9	46.0	-3.1	Black
11	1.098M	36.5	+0.1	+6.1	+0.0	+0.1	+0.0	42.8	46.0	-3.2	Black
12	3.943M	35.9	+0.1	+6.2	+0.2	+0.2	+0.0	42.6	46.0	-3.4	Black
13	704.858k	36.0	+0.2	+6.1	+0.1	+0.1	+0.0	42.5	46.0	-3.5	Black
14	731.038k	36.1	+0.1	+6.1	+0.1	+0.1	+0.0	42.5	46.0	-3.5	Black
15	3.858M	35.7	+0.1	+6.2	+0.2	+0.2	+0.0	42.4	46.0	-3.6	Black
16	421.975k Ave	37.1	+0.2	+6.2	+0.1	+0.0	+0.0	43.6	47.4	-3.8	Black
^	421.975k	44.9	+0.2	+6.2	+0.1	+0.0	+0.0	51.4	47.4	+4.0	Black
18	368.889k	37.7	+0.2	+6.2	+0.1	+0.0	+0.0	44.2	48.5	-4.3	Black
19	3.799M	34.6	+0.1	+6.2	+0.2	+0.2	+0.0	41.3	46.0	-4.7	Black
20	693.950k	34.3	+0.2	+6.1	+0.1	+0.1	+0.0	40.8	46.0	-5.2	Black
21	598.686k Ave	32.6	+0.2	+6.1	+0.1	+0.1	+0.0	39.1	46.0	-6.9	Black
^	598.686k	42.0	+0.2	+6.1	+0.1	+0.1	+0.0	48.5	46.0	+2.5	Black
23	302.977k Ave	34.5	+0.2	+6.2	+0.1	+0.1	+0.0	41.1	50.2	-9.1	Black
24	850.760k Ave	26.7	+0.1	+6.1	+0.0	+0.1	+0.0	33.0	46.0	-13.0	Black
^	854.663k	43.0	+0.1	+6.1	+0.0	+0.1	+0.0	49.3	46.0	+3.3	Black
26	1.566M Ave	26.4	+0.1	+6.1	+0.1	+0.1	+0.0	32.8	46.0	-13.2	Black
^	1.566M	42.9	+0.1	+6.1	+0.1	+0.1	+0.0	49.3	46.0	+3.3	Black
^	1.566M	42.7	+0.1	+6.1	+0.1	+0.1	+0.0	49.1	46.0	+3.1	Black
29	1.033M Ave	26.4	+0.1	+6.1	+0.0	+0.1	+0.0	32.7	46.0	-13.3	Black
^	1.030M	43.4	+0.1	+6.1	+0.0	+0.1	+0.0	49.7	46.0	+3.7	Black

31	1.209M Ave	26.0	+0.1	+6.1	+0.0	+0.1	+0.0	32.3	46.0	-13.7	Black
^	1.209M	40.9	+0.1	+6.1	+0.0	+0.1	+0.0	47.2	46.0	+1.2	Black
33	2.600M Ave	25.2	+0.1	+6.2	+0.1	+0.2	+0.0	31.8	46.0	-14.2	Black
^	2.600M	44.8	+0.1	+6.2	+0.1	+0.2	+0.0	51.4	46.0	+5.4	Black
35	1.392M Ave	25.4	+0.1	+6.1	+0.0	+0.1	+0.0	31.7	46.0	-14.3	Black
^	1.392M	41.7	+0.1	+6.1	+0.0	+0.1	+0.0	48.0	46.0	+2.0	Black
37	1.311M Ave	23.4	+0.1	+6.1	+0.0	+0.1	+0.0	29.7	46.0	-16.3	Black
^	1.311M	38.4	+0.1	+6.1	+0.0	+0.1	+0.0	44.7	46.0	-1.3	Black
39	3.118M Ave	20.5	+0.1	+6.2	+0.1	+0.2	+0.0	27.1	46.0	-18.9	Black
^	3.118M	39.7	+0.1	+6.2	+0.1	+0.2	+0.0	46.3	46.0	+0.3	Black
41	2.438M Ave	20.3	+0.1	+6.2	+0.1	+0.2	+0.0	26.9	46.0	-19.1	Black
^	2.438M	44.4	+0.1	+6.2	+0.1	+0.2	+0.0	51.0	46.0	+5.0	Black
43	2.200M Ave	20.3	+0.1	+6.1	+0.1	+0.1	+0.0	26.7	46.0	-19.3	Black
^	2.200M	41.8	+0.1	+6.1	+0.1	+0.1	+0.0	48.2	46.0	+2.2	Black
45	3.293M Ave	18.9	+0.1	+6.2	+0.1	+0.2	+0.0	25.5	46.0	-20.5	Black
^	3.293M	38.7	+0.1	+6.2	+0.1	+0.2	+0.0	45.3	46.0	-0.7	Black
47	2.859M Ave	18.2	+0.1	+6.2	+0.1	+0.2	+0.0	24.8	46.0	-21.2	Black
^	2.859M	42.2	+0.1	+6.2	+0.1	+0.2	+0.0	48.8	46.0	+2.8	Black
49	3.471M Ave	17.0	+0.1	+6.2	+0.2	+0.2	+0.0	23.7	46.0	-22.3	Black
^	3.471M	37.4	+0.1	+6.2	+0.2	+0.2	+0.0	44.1	46.0	-1.9	Black
51	308.531k Ave	20.8	+0.2	+6.2	+0.1	+0.1	+0.0	27.4	50.0	-22.6	Black
52	308.531k Ave	20.3	+0.2	+6.2	+0.1	+0.1	+0.0	26.9	50.0	-23.1	Black
^	308.531k	42.6	+0.2	+6.2	+0.1	+0.1	+0.0	49.2	50.0	-0.8	Black
54	3.391M Ave	16.0	+0.1	+6.2	+0.2	+0.2	+0.0	22.7	46.0	-23.3	Black
^	3.391M	39.1	+0.1	+6.2	+0.2	+0.2	+0.0	45.8	46.0	-0.2	Black

56	3.420M Ave	15.3	+0.1	+6.2	+0.2	+0.2	+0.0	22.0	46.0	-24.0	Black
^	3.420M	37.9	+0.1	+6.2	+0.2	+0.2	+0.0	44.6	46.0	-1.4	Black
58	915.480k Ave	11.7	+0.1	+6.1	+0.0	+0.1	+0.0	18.0	46.0	-28.0	Black
^	915.480k	38.6	+0.1	+6.1	+0.0	+0.1	+0.0	44.9	46.0	-1.1	Black



Test Location: CKC Laboratories, Inc. •110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer:	**Synapse Product Development, LLC**		
Specification:	**FCC 15.207 COND [AVE]**		
Work Order #:	**87002**	Date:	9/15/2007
Test Type:	**Conducted Emissions**	Time:	08:26:13
Equipment:	**WiFi and Bluetooth Enabled Media Player**	Sequence#:	52
Manufacturer:	Haier America LLC	Tested By:	E. Wong
Model:	MW101AQ		110V 60Hz
S/N:	NA		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
LISN	1104	11/10/2006	11/10/2008	00847
6dB Attenuator	None	11/21/2006	11/21/2008	P05611
150kHz HPF	G7755	01/30/2006	01/30/2008	02610
Conducted Emission Cable	Cable #21	05/09/2006	05/09/2008	P04358

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
AC Power Supply	Haier America LLC	LSD-D03	NA
WiFi and Bluetooth Enabled Media Player*	Haier America LLC	MW101AQ	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

The EUT is placed on the wooden table. A set of earphones is connected to the Audio port. Docking port is connected to a section of unterminated cable. USB port is connected to an AC power supply. The EUT is operating on Max power. Mode: Transmit and receive in 802.11b mode, middle channel. Display and hard drives are exercised. 22°C, 49% relative humidity. Cost reduced Power supply design.

Transducer Legend:

T1=150kHz HPF Asset 02610	T2=6dB Attenuator P05611
T3=Cable #21 Conducted Site A 050908	T4=(L2) Insertion Loss 00847 EMCO 3816/2NM

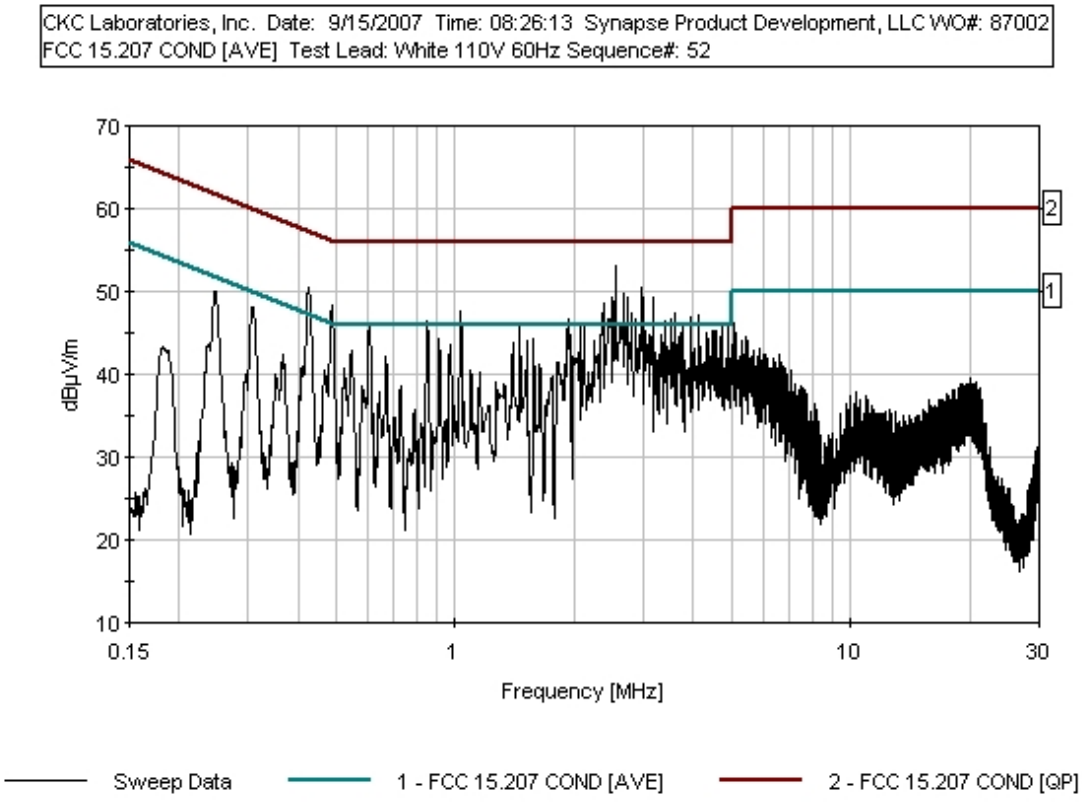
Measurement Data: Reading listed by margin. Test Lead: White

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	1.519M	37.6	+0.1	+6.1	+0.1	+0.1	+0.0	44.0	46.0	-2.0	White
2	2.247M	37.4	+0.1	+6.2	+0.1	+0.2	+0.0	44.0	46.0	-2.0	White
3	1.396M	37.5	+0.1	+6.1	+0.0	+0.1	+0.0	43.8	46.0	-2.2	White
4	970.765k	37.3	+0.1	+6.1	+0.0	+0.1	+0.0	43.6	46.0	-2.4	White
5	4.190M	36.7	+0.1	+6.2	+0.2	+0.2	+0.0	43.4	46.0	-2.6	White

6	3.735M	36.6	+0.1	+6.2	+0.2	+0.2	+0.0	43.3	46.0	-2.7	White
7	4.011M	36.3	+0.1	+6.2	+0.2	+0.2	+0.0	43.0	46.0	-3.0	White
8	547.054k	36.4	+0.2	+6.1	+0.1	+0.1	+0.0	42.9	46.0	-3.1	White
9	4.152M	36.2	+0.1	+6.2	+0.2	+0.2	+0.0	42.9	46.0	-3.1	White
10	3.220M	36.0	+0.1	+6.2	+0.1	+0.2	+0.0	42.6	46.0	-3.4	White
11	5.100M	39.6	+0.1	+6.2	+0.2	+0.2	+0.0	46.3	50.0	-3.7	White
12	668.498k	35.6	+0.2	+6.1	+0.1	+0.1	+0.0	42.1	46.0	-3.9	White
13	4.432M	35.4	+0.1	+6.2	+0.2	+0.2	+0.0	42.1	46.0	-3.9	White
14	4.615M	35.3	+0.1	+6.2	+0.2	+0.2	+0.0	42.0	46.0	-4.0	White
15	4.981M	35.3	+0.1	+6.2	+0.2	+0.2	+0.0	42.0	46.0	-4.0	White
16	4.862M	35.1	+0.1	+6.2	+0.2	+0.2	+0.0	41.8	46.0	-4.2	White
17	3.799M	34.9	+0.1	+6.2	+0.2	+0.2	+0.0	41.6	46.0	-4.4	White
18	1.817M	35.1	+0.1	+6.1	+0.1	+0.1	+0.0	41.5	46.0	-4.5	White
19	4.939M	34.8	+0.1	+6.2	+0.2	+0.2	+0.0	41.5	46.0	-4.5	White
20	1.885M	34.8	+0.1	+6.1	+0.1	+0.1	+0.0	41.2	46.0	-4.8	White
21 Ave	2.549M	23.0	+0.1	+6.2	+0.1	+0.2	+0.0	29.6	46.0	-16.4	White
^	2.549M	46.4	+0.1	+6.2	+0.1	+0.2	+0.0	53.0	46.0	+7.0	White
^	2.549M	46.3	+0.1	+6.2	+0.1	+0.2	+0.0	52.9	46.0	+6.9	White
24 Ave	2.971M	20.6	+0.1	+6.2	+0.1	+0.2	+0.0	27.2	46.0	-18.8	White
^	2.974M	43.8	+0.1	+6.2	+0.1	+0.2	+0.0	50.4	46.0	+4.4	White
26 Ave	247.446k	26.4	+0.2	+6.1	+0.1	+0.1	+0.0	32.9	51.8	-18.9	White
^	247.446k	43.4	+0.2	+6.1	+0.1	+0.1	+0.0	49.9	51.8	-1.9	White
28 Ave	3.152M	19.7	+0.1	+6.2	+0.1	+0.2	+0.0	26.3	46.0	-19.7	White
^	3.161M	42.6	+0.1	+6.2	+0.1	+0.2	+0.0	49.2	46.0	+3.2	White

30 Ave	2.726M	19.7	+0.1	+6.2	+0.1	+0.2	+0.0	26.3	46.0	-19.7	White
^	2.731M	42.6	+0.1	+6.2	+0.1	+0.2	+0.0	49.2	46.0	+3.2	White
32 Ave	423.636k	20.3	+0.2	+6.2	+0.1	+0.1	+0.0	26.9	47.4	-20.5	White
^	426.338k	43.9	+0.2	+6.2	+0.1	+0.1	+0.0	50.5	47.3	+3.2	White
34 Ave	3.582M	18.6	+0.1	+6.2	+0.2	+0.2	+0.0	25.3	46.0	-20.7	White
^	3.582M	40.6	+0.1	+6.2	+0.2	+0.2	+0.0	47.3	46.0	+1.3	White
36 Ave	4.126M	18.1	+0.1	+6.2	+0.2	+0.2	+0.0	24.8	46.0	-21.2	White
^	4.126M	40.4	+0.1	+6.2	+0.2	+0.2	+0.0	47.1	46.0	+1.1	White
38 Ave	306.349k	21.8	+0.2	+6.2	+0.1	+0.1	+0.0	28.4	50.1	-21.7	White
^	306.349k	41.6	+0.2	+6.2	+0.1	+0.1	+0.0	48.2	50.1	-1.9	White
40 Ave	306.349k	21.7	+0.2	+6.2	+0.1	+0.1	+0.0	28.3	50.1	-21.8	White
41 Ave	4.552M	17.2	+0.1	+6.2	+0.2	+0.2	+0.0	23.9	46.0	-22.1	White
^	4.552M	38.5	+0.1	+6.2	+0.2	+0.2	+0.0	45.2	46.0	-0.8	White
43 Ave	3.038M	16.7	+0.1	+6.2	+0.1	+0.2	+0.0	23.3	46.0	-22.7	White
^	3.038M	38.7	+0.1	+6.2	+0.1	+0.2	+0.0	45.3	46.0	-0.7	White
45 Ave	3.701M	16.4	+0.1	+6.2	+0.2	+0.2	+0.0	23.1	46.0	-22.9	White
46 Ave	4.309M	16.4	+0.1	+6.2	+0.2	+0.2	+0.0	23.1	46.0	-22.9	White
^	4.309M	38.4	+0.1	+6.2	+0.2	+0.2	+0.0	45.1	46.0	-0.9	White
48 Ave	3.701M	16.2	+0.1	+6.2	+0.2	+0.2	+0.0	22.9	46.0	-23.1	White
^	3.701M	38.3	+0.1	+6.2	+0.2	+0.2	+0.0	45.0	46.0	-1.0	White
50 Ave	2.123M	16.4	+0.1	+6.1	+0.1	+0.1	+0.0	22.8	46.0	-23.2	White
^	2.123M	39.7	+0.1	+6.1	+0.1	+0.1	+0.0	46.1	46.0	+0.1	White
52 Ave	3.948M	16.1	+0.1	+6.2	+0.2	+0.2	+0.0	22.8	46.0	-23.2	White
^	3.948M	40.3	+0.1	+6.2	+0.2	+0.2	+0.0	47.0	46.0	+1.0	White

54 Ave	605.958k	16.1	+0.2	+6.1	+0.1	+0.1	+0.0	22.6	46.0	-23.4	White
^	605.958k	39.5	+0.2	+6.1	+0.1	+0.1	+0.0	46.0	46.0	+0.0	White
56 Ave	3.701M	15.9	+0.1	+6.2	+0.2	+0.2	+0.0	22.6	46.0	-23.4	White
57 Ave	2.064M	16.1	+0.1	+6.1	+0.1	+0.1	+0.0	22.5	46.0	-23.5	White
^	2.064M	39.6	+0.1	+6.1	+0.1	+0.1	+0.0	46.0	46.0	+0.0	White
59 Ave	4.734M	15.4	+0.1	+6.2	+0.2	+0.2	+0.0	22.1	46.0	-23.9	White
^	4.734M	38.9	+0.1	+6.2	+0.2	+0.2	+0.0	45.6	46.0	-0.4	White
61 Ave	4.917M	14.9	+0.1	+6.2	+0.2	+0.2	+0.0	21.6	46.0	-24.4	White
^	4.917M	39.6	+0.1	+6.2	+0.2	+0.2	+0.0	46.3	46.0	+0.3	White
63 Ave	1.030M	13.9	+0.1	+6.1	+0.0	+0.1	+0.0	20.2	46.0	-25.8	White
^	1.035M	41.3	+0.1	+6.1	+0.0	+0.1	+0.0	47.6	46.0	+1.6	White
65 Ave	1.460M	12.6	+0.1	+6.1	+0.0	+0.1	+0.0	18.9	46.0	-27.1	White
^	1.460M	39.4	+0.1	+6.1	+0.0	+0.1	+0.0	45.7	46.0	-0.3	White
67 Ave	849.572k	12.2	+0.1	+6.1	+0.0	+0.1	+0.0	18.5	46.0	-27.5	White
^	849.572k	40.2	+0.1	+6.1	+0.0	+0.1	+0.0	46.5	46.0	+0.5	White


CKC Laboratories, Inc. Date: 9/15/2007 Time: 08:26:13 Synapse Product Development, LLC WO#: 87002
FCC 15.207 COND [AVE] Test Lead: White 110V 60Hz Sequence#: 52
70
60
50
40
30
20
10
dBµV/m
0.15
1
10
30
Frequency [MHz]
2
1
Sweep Data
1 - FCC 15.207 COND [AVE]
2 - FCC 15.207 COND [QP]

Test Location: CKC Laboratories, Inc. •110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer:	**Synapse Product Development, LLC**		
Specification:	**FCC 15.207 COND [AVE]**		
Work Order #:	**87002**	Date:	9/15/2007
Test Type:	**Conducted Emissions**	Time:	09:03:50
Equipment:	**WiFi and Bluetooth Enabled Media Player**	Sequence#:	54
Manufacturer:	Haier America LLC	Tested By:	E. Wong
Model:	MW101AQ		110V 60Hz
S/N:	NA		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
LISN	1104	11/10/2006	11/10/2008	00847
6dB Attenuator	None	11/21/2006	11/21/2008	P05611
150kHz HPF	G7755	01/30/2006	01/30/2008	02610
Conducted Emission Cable	Cable #21	05/09/2006	05/09/2008	P04358

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
AC Power Supply	Haier America LLC	LSD-D03	NA
WiFi and Bluetooth Enabled Media Player*	Haier America LLC	MW101AQ	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

The EUT is placed on the wooden table. A set of earphones is connected to the Audio port. Docking port is connected to a section of unterminated cable. USB port is connected to an AC power supply. The EUT is operating on Max power. Mode: Transmit and receive in 802.11g mode, middle channel. Display and hard drives are exercised. 22°C, 49% relative humidity. Cost reduced Power supply design.

Transducer Legend:

T1=150kHz HPF Asset 02610	T2=6dB Attenuator P05611
T3=Cable #21 Conducted Site A 050908	T4=(L1) Insertion Loss 00847 EMCO 3816/2NM

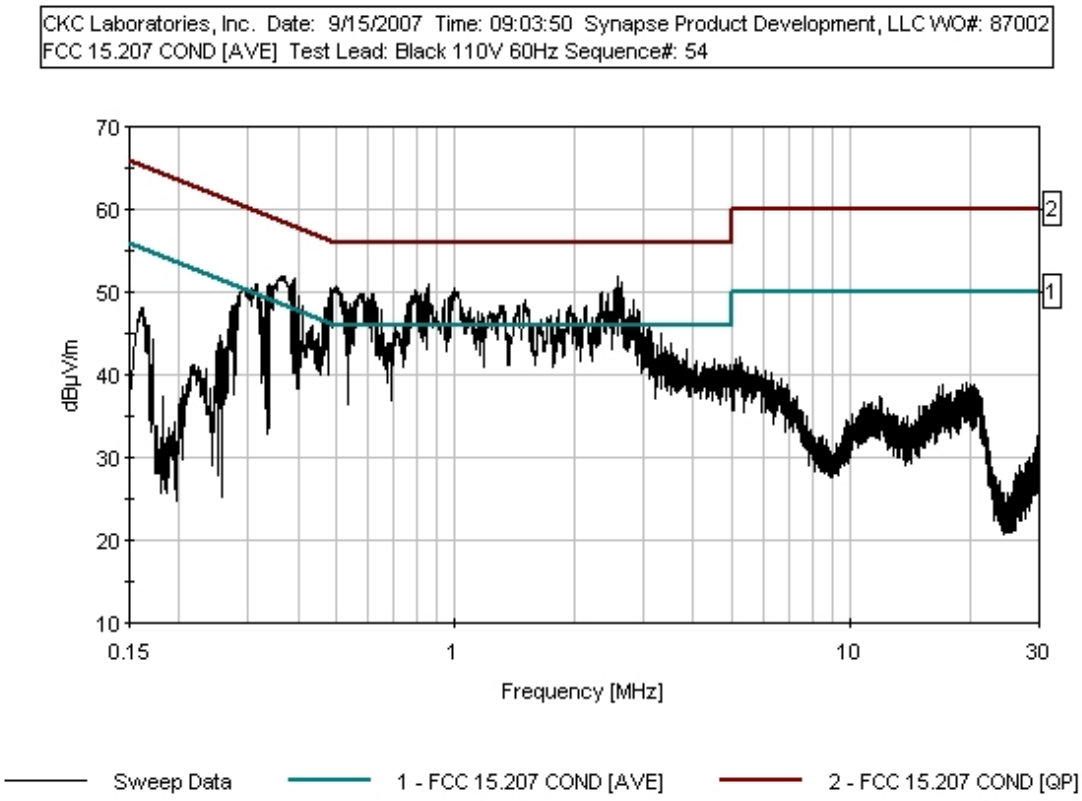
Measurement Data: Reading listed by margin. Test Lead: Black

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	683.042k	37.3	+0.2	+6.1	+0.1	+0.1	+0.0	43.8	46.0	-2.2	Black
2	3.157M	37.2	+0.1	+6.2	+0.1	+0.2	+0.0	43.8	46.0	-2.2	Black
3	3.522M	37.0	+0.1	+6.2	+0.2	+0.2	+0.0	43.7	46.0	-2.3	Black
4	328.893k	40.4	+0.2	+6.2	+0.1	+0.1	+0.0	47.0	49.5	-2.5	Black
5	275.079k	41.9	+0.2	+6.1	+0.1	+0.1	+0.0	48.4	51.0	-2.6	Black

6	3.386M	36.7	+0.1	+6.2	+0.2	+0.2	+0.0	43.4	46.0	-2.6	Black
7	272.898k	41.8	+0.2	+6.1	+0.1	+0.1	+0.0	48.3	51.0	-2.7	Black
8	3.335M	36.4	+0.1	+6.2	+0.1	+0.2	+0.0	43.0	46.0	-3.0	Black
9	3.850M	36.3	+0.1	+6.2	+0.2	+0.2	+0.0	43.0	46.0	-3.0	Black
10	3.165M	36.2	+0.1	+6.2	+0.1	+0.2	+0.0	42.8	46.0	-3.2	Black
11	3.433M	36.1	+0.1	+6.2	+0.2	+0.2	+0.0	42.8	46.0	-3.2	Black
12	3.548M	36.0	+0.1	+6.2	+0.2	+0.2	+0.0	42.7	46.0	-3.3	Black
13	3.650M	35.8	+0.1	+6.2	+0.2	+0.2	+0.0	42.5	46.0	-3.5	Black
14	326.711k	39.3	+0.2	+6.2	+0.1	+0.1	+0.0	45.9	49.5	-3.6	Black
15	502.221k Ave	34.4	+0.2	+6.2	+0.1	+0.1	+0.0	41.0	46.0	-5.0	Black
^	500.513k	44.0	+0.2	+6.2	+0.1	+0.1	+0.0	50.6	46.0	+4.6	Black
17	500.463k Ave	33.9	+0.2	+6.2	+0.1	+0.1	+0.0	40.5	46.0	-5.5	Black
18	359.955k Ave	36.0	+0.2	+6.2	+0.1	+0.0	+0.0	42.5	48.7	-6.2	Black
19	1.003M Ave	31.7	+0.1	+6.1	+0.0	+0.1	+0.0	38.0	46.0	-8.0	Black
20	795.032k Ave	31.1	+0.1	+6.1	+0.1	+0.1	+0.0	37.5	46.0	-8.5	Black
^	795.032k	43.8	+0.1	+6.1	+0.1	+0.1	+0.0	50.2	46.0	+4.2	Black
22	996.281k Ave	30.4	+0.1	+6.1	+0.0	+0.1	+0.0	36.7	46.0	-9.3	Black
^	996.281k	44.1	+0.1	+6.1	+0.0	+0.1	+0.0	50.4	46.0	+4.4	Black
24	1.434M Ave	29.7	+0.1	+6.1	+0.0	+0.1	+0.0	36.0	46.0	-10.0	Black
^	1.434M	42.1	+0.1	+6.1	+0.0	+0.1	+0.0	48.4	46.0	+2.4	Black
26	856.414k Ave	29.5	+0.1	+6.1	+0.0	+0.1	+0.0	35.8	46.0	-10.2	Black
^	854.663k	44.7	+0.1	+6.1	+0.0	+0.1	+0.0	51.0	46.0	+5.0	Black
28	1.498M Ave	29.1	+0.1	+6.1	+0.1	+0.1	+0.0	35.5	46.0	-10.5	Black
^	1.498M	42.6	+0.1	+6.1	+0.1	+0.1	+0.0	49.0	46.0	+3.0	Black

30	2.634M Ave	28.6	+0.1	+6.2	+0.1	+0.2	+0.0	35.2	46.0	-10.8	Black
^	2.634M	44.2	+0.1	+6.2	+0.1	+0.2	+0.0	50.8	46.0	+4.8	Black
32	1.949M Ave	28.3	+0.1	+6.1	+0.1	+0.1	+0.0	34.7	46.0	-11.3	Black
^	1.949M	42.0	+0.1	+6.1	+0.1	+0.1	+0.0	48.4	46.0	+2.4	Black
34	2.583M Ave	27.6	+0.1	+6.2	+0.1	+0.2	+0.0	34.2	46.0	-11.8	Black
^	2.583M	45.2	+0.1	+6.2	+0.1	+0.2	+0.0	51.8	46.0	+5.8	Black
36	2.404M Ave	27.5	+0.1	+6.2	+0.1	+0.2	+0.0	34.1	46.0	-11.9	Black
^	2.404M	42.2	+0.1	+6.2	+0.1	+0.2	+0.0	48.8	46.0	+2.8	Black
38	2.906M Ave	24.5	+0.1	+6.2	+0.1	+0.2	+0.0	31.1	46.0	-14.9	Black
^	2.906M	41.2	+0.1	+6.2	+0.1	+0.2	+0.0	47.8	46.0	+1.8	Black
40	1.817M Ave	24.6	+0.1	+6.1	+0.1	+0.1	+0.0	31.0	46.0	-15.0	Black
^	1.817M	41.5	+0.1	+6.1	+0.1	+0.1	+0.0	47.9	46.0	+1.9	Black
42	3.114M Ave	24.0	+0.1	+6.2	+0.1	+0.2	+0.0	30.6	46.0	-15.4	Black
^	3.114M	39.0	+0.1	+6.2	+0.1	+0.2	+0.0	45.6	46.0	-0.4	Black
44	3.004M Ave	23.9	+0.1	+6.2	+0.1	+0.2	+0.0	30.5	46.0	-15.5	Black
^	3.004M	39.1	+0.1	+6.2	+0.1	+0.2	+0.0	45.7	46.0	-0.3	Black
46	528.874k Ave	19.5	+0.2	+6.2	+0.1	+0.1	+0.0	26.1	46.0	-19.9	Black
^	528.874k	41.5	+0.2	+6.2	+0.1	+0.1	+0.0	48.1	46.0	+2.1	Black
48	613.957k Ave	17.2	+0.2	+6.1	+0.1	+0.1	+0.0	23.7	46.0	-22.3	Black
^	613.957k	43.3	+0.2	+6.1	+0.1	+0.1	+0.0	49.8	46.0	+3.8	Black
50	395.068k Ave	12.4	+0.2	+6.2	+0.1	+0.0	+0.0	18.9	48.0	-29.1	Black
^	395.069k	45.2	+0.2	+6.2	+0.1	+0.0	+0.0	51.7	48.0	+3.7	Black

52	315.803k Ave	14.0	+0.2	+6.2	+0.1	+0.1	+0.0	20.6	49.8	-29.2	Black
^	315.803k	44.3	+0.2	+6.2	+0.1	+0.1	+0.0	50.9	49.8	+1.1	Black
54	320.893k Ave	11.2	+0.2	+6.2	+0.1	+0.1	+0.0	17.8	49.7	-31.9	Black
^	320.893k	42.7	+0.2	+6.2	+0.1	+0.1	+0.0	49.3	49.7	-0.4	Black



Test Location: CKC Laboratories, Inc. •110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer:	**Synapse Product Development, LLC**		
Specification:	**FCC 15.207 COND [AVE]**		
Work Order #:	**87002**	Date:	9/15/2007
Test Type:	**Conducted Emissions**	Time:	08:50:02
Equipment:	**WiFi and Bluetooth Enabled Media Player**	Sequence#:	53
Manufacturer:	Haier America LLC	Tested By:	E. Wong
Model:	MW101AQ		110V 60Hz
S/N:	NA		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
LISN	1104	11/10/2006	11/10/2008	00847
6dB Attenuator	None	11/21/2006	11/21/2008	P05611
150kHz HPF	G7755	01/30/2006	01/30/2008	02610
Conducted Emission Cable	Cable #21	05/09/2006	05/09/2008	P04358

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
AC Power Supply	Haier America LLC	LSD-D03	NA
WiFi and Bluetooth Enabled Media Player*	Haier America LLC	MW101AQ	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

The EUT is placed on the wooden table. A set of earphones is connected to the Audio port. Docking port is connected to a section of unterminated cable. USB port is connected to an AC power supply. The EUT is operating on Max power. Mode: Transmit and receive in 802.11g mode, middle channel. Display and hard drives are exercised. 22°C, 49% relative humidity. Cost reduced Power supply design.

Transducer Legend:

T1=150kHz HPF Asset 02610	T2=6dB Attenuator P05611
T3=Cable #21 Conducted Site A 050908	T4=(L2) Insertion Loss 00847 EMCO 3816/2NM

Measurement Data: Reading listed by margin. Test Lead: White

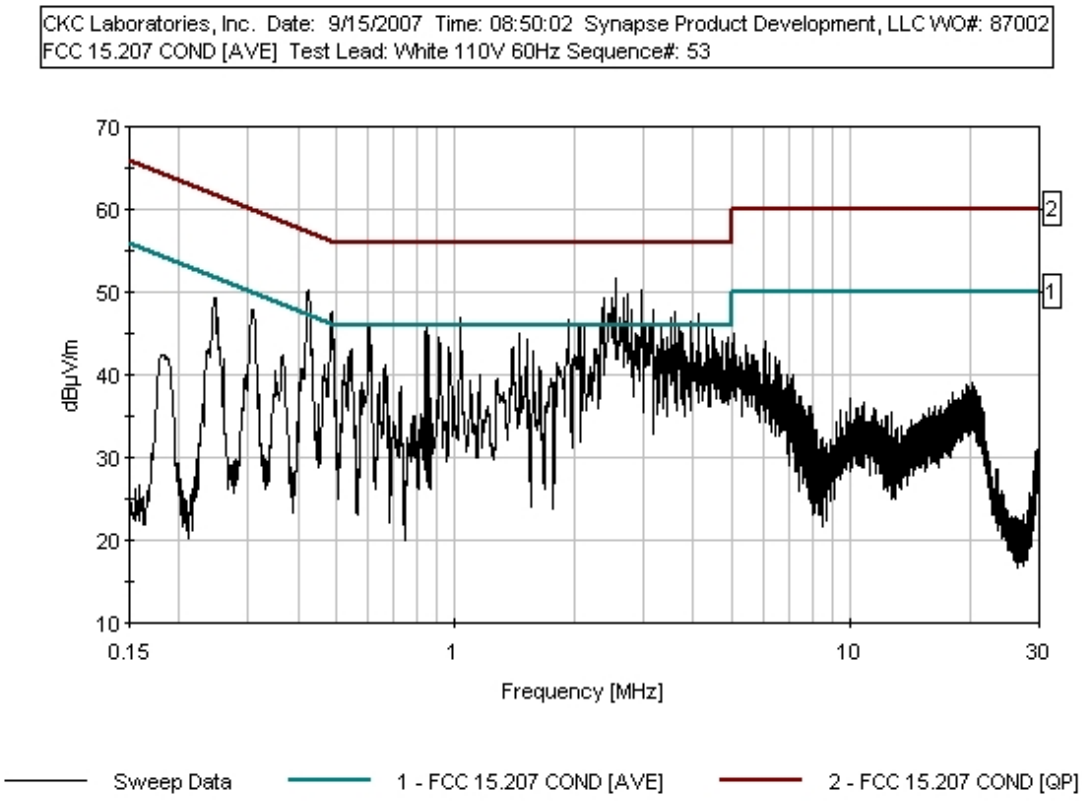
#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	4.730M	37.3	+0.1	+6.2	+0.2	+0.2	+0.0	44.0	46.0	-2.0	White
2	309.985k	41.3	+0.2	+6.2	+0.1	+0.1	+0.0	47.9	50.0	-2.1	White
3	3.654M	37.1	+0.1	+6.2	+0.2	+0.2	+0.0	43.8	46.0	-2.2	White
4	3.969M	37.0	+0.1	+6.2	+0.2	+0.2	+0.0	43.7	46.0	-2.3	White
5	4.849M	37.0	+0.1	+6.2	+0.2	+0.2	+0.0	43.7	46.0	-2.3	White

6	4.871M	36.9	+0.1	+6.2	+0.2	+0.2	+0.0	43.6	46.0	-2.4	White
7	247.446k	42.8	+0.2	+6.1	+0.1	+0.1	+0.0	49.3	51.8	-2.5	White
8	613.957k	37.0	+0.2	+6.1	+0.1	+0.1	+0.0	43.5	46.0	-2.5	White
9	3.250M	36.9	+0.1	+6.2	+0.1	+0.2	+0.0	43.5	46.0	-2.5	White
10	4.369M	36.8	+0.1	+6.2	+0.2	+0.2	+0.0	43.5	46.0	-2.5	White
11	1.396M	37.1	+0.1	+6.1	+0.0	+0.1	+0.0	43.4	46.0	-2.6	White
12	966.512k	37.0	+0.1	+6.1	+0.0	+0.1	+0.0	43.3	46.0	-2.7	White
13	2.242M	36.6	+0.1	+6.2	+0.1	+0.2	+0.0	43.2	46.0	-2.8	White
14	545.600k	36.6	+0.2	+6.1	+0.1	+0.1	+0.0	43.1	46.0	-2.9	White
15	3.714M	36.4	+0.1	+6.2	+0.2	+0.2	+0.0	43.1	46.0	-2.9	White
16	3.276M	36.4	+0.1	+6.2	+0.1	+0.2	+0.0	43.0	46.0	-3.0	White
17	3.620M	36.3	+0.1	+6.2	+0.2	+0.2	+0.0	43.0	46.0	-3.0	White
18	1.579M	36.5	+0.1	+6.1	+0.1	+0.1	+0.0	42.9	46.0	-3.1	White
19	3.399M	36.2	+0.1	+6.2	+0.2	+0.2	+0.0	42.9	46.0	-3.1	White
20	4.080M	36.2	+0.1	+6.2	+0.2	+0.2	+0.0	42.9	46.0	-3.1	White
21	3.795M	36.1	+0.1	+6.2	+0.2	+0.2	+0.0	42.8	46.0	-3.2	White
22	3.178M	36.1	+0.1	+6.2	+0.1	+0.2	+0.0	42.7	46.0	-3.3	White
23	3.391M	36.0	+0.1	+6.2	+0.2	+0.2	+0.0	42.7	46.0	-3.3	White
24	4.649M	36.0	+0.1	+6.2	+0.2	+0.2	+0.0	42.7	46.0	-3.3	White
25	4.343M	35.9	+0.1	+6.2	+0.2	+0.2	+0.0	42.6	46.0	-3.4	White
26	3.357M	35.6	+0.1	+6.2	+0.2	+0.2	+0.0	42.3	46.0	-3.7	White
27	4.182M	35.4	+0.1	+6.2	+0.2	+0.2	+0.0	42.1	46.0	-3.9	White
28	4.751M	35.3	+0.1	+6.2	+0.2	+0.2	+0.0	42.0	46.0	-4.0	White
29	4.956M	35.3	+0.1	+6.2	+0.2	+0.2	+0.0	42.0	46.0	-4.0	White

30	1.809M	35.0	+0.1	+6.1	+0.1	+0.1	+0.0	41.4	46.0	-4.6	White
31	522.330k	34.7	+0.2	+6.2	+0.1	+0.1	+0.0	41.3	46.0	-4.7	White
32	668.498k	34.8	+0.2	+6.1	+0.1	+0.1	+0.0	41.3	46.0	-4.7	White
33	5.092M	38.3	+0.1	+6.2	+0.2	+0.2	+0.0	45.0	50.0	-5.0	White
34	2.544M Ave	21.5	+0.1	+6.2	+0.1	+0.2	+0.0	28.1	46.0	-17.9	White
^	2.544M	45.1	+0.1	+6.2	+0.1	+0.2	+0.0	51.7	46.0	+5.7	White
36	2.668M Ave	21.2	+0.1	+6.2	+0.1	+0.2	+0.0	27.8	46.0	-18.2	White
^	2.668M	42.6	+0.1	+6.2	+0.1	+0.2	+0.0	49.2	46.0	+3.2	White
38	2.366M Ave	21.2	+0.1	+6.2	+0.1	+0.2	+0.0	27.8	46.0	-18.2	White
^	2.366M	42.7	+0.1	+6.2	+0.1	+0.2	+0.0	49.3	46.0	+3.3	White
40	2.731M Ave	21.1	+0.1	+6.2	+0.1	+0.2	+0.0	27.7	46.0	-18.3	White
^	2.731M	43.2	+0.1	+6.2	+0.1	+0.2	+0.0	49.8	46.0	+3.8	White
42	2.383M Ave	20.9	+0.1	+6.2	+0.1	+0.2	+0.0	27.5	46.0	-18.5	White
^	2.383M	38.8	+0.1	+6.2	+0.1	+0.2	+0.0	45.4	46.0	-0.6	White
44	2.791M Ave	18.7	+0.1	+6.2	+0.1	+0.2	+0.0	25.3	46.0	-20.7	White
^	2.791M	41.3	+0.1	+6.2	+0.1	+0.2	+0.0	47.9	46.0	+1.9	White
46	2.319M Ave	18.4	+0.1	+6.2	+0.1	+0.2	+0.0	25.0	46.0	-21.0	White
^	2.319M	38.7	+0.1	+6.2	+0.1	+0.2	+0.0	45.3	46.0	-0.7	White
48	2.970M Ave	18.4	+0.1	+6.2	+0.1	+0.2	+0.0	25.0	46.0	-21.0	White
^	2.970M	43.6	+0.1	+6.2	+0.1	+0.2	+0.0	50.2	46.0	+4.2	White
50	3.943M Ave	17.5	+0.1	+6.2	+0.2	+0.2	+0.0	24.2	46.0	-21.8	White
^	3.943M	39.7	+0.1	+6.2	+0.2	+0.2	+0.0	46.4	46.0	+0.4	White
52	3.335M Ave	17.4	+0.1	+6.2	+0.1	+0.2	+0.0	24.0	46.0	-22.0	White
^	3.335M	39.2	+0.1	+6.2	+0.1	+0.2	+0.0	45.8	46.0	-0.2	White

54	4.305M Ave	17.1	+0.1	+6.2	+0.2	+0.2	+0.0	23.8	46.0	-22.2	White
^	4.305M	39.1	+0.1	+6.2	+0.2	+0.2	+0.0	45.8	46.0	-0.2	White
56	3.157M Ave	17.0	+0.1	+6.2	+0.1	+0.2	+0.0	23.6	46.0	-22.4	White
^	3.157M	41.3	+0.1	+6.2	+0.1	+0.2	+0.0	47.9	46.0	+1.9	White
^	3.165M	36.9	+0.1	+6.2	+0.1	+0.2	+0.0	43.5	46.0	-2.5	White
59	4.488M Ave	16.8	+0.1	+6.2	+0.2	+0.2	+0.0	23.5	46.0	-22.5	White
^	4.488M	38.7	+0.1	+6.2	+0.2	+0.2	+0.0	45.4	46.0	-0.6	White
61	4.143M Ave	16.6	+0.1	+6.2	+0.2	+0.2	+0.0	23.3	46.0	-22.7	White
^	4.143M	37.7	+0.1	+6.2	+0.2	+0.2	+0.0	44.4	46.0	-1.6	White
63	4.126M Ave	16.6	+0.1	+6.2	+0.2	+0.2	+0.0	23.3	46.0	-22.7	White
^	4.126M	40.6	+0.1	+6.2	+0.2	+0.2	+0.0	47.3	46.0	+1.3	White
65	4.913M Ave	16.5	+0.1	+6.2	+0.2	+0.2	+0.0	23.2	46.0	-22.8	White
^	4.913M	37.8	+0.1	+6.2	+0.2	+0.2	+0.0	44.5	46.0	-1.5	White
67	1.940M Ave	16.8	+0.1	+6.1	+0.1	+0.1	+0.0	23.2	46.0	-22.8	White
^	1.940M	40.2	+0.1	+6.1	+0.1	+0.1	+0.0	46.6	46.0	+0.6	White
69	3.582M Ave	16.1	+0.1	+6.2	+0.2	+0.2	+0.0	22.8	46.0	-23.2	White
^	3.582M	40.9	+0.1	+6.2	+0.2	+0.2	+0.0	47.6	46.0	+1.6	White
71	577.525k Ave	15.9	+0.2	+6.1	+0.1	+0.1	+0.0	22.4	46.0	-23.6	White
72	424.157k Ave	17.2	+0.2	+6.2	+0.1	+0.1	+0.0	23.8	47.4	-23.6	White
^	424.157k	43.7	+0.2	+6.2	+0.1	+0.1	+0.0	50.3	47.4	+2.9	White
74	848.845k Ave	12.5	+0.1	+6.1	+0.0	+0.1	+0.0	18.8	46.0	-27.2	White
75	848.845k Ave	11.3	+0.1	+6.1	+0.0	+0.1	+0.0	17.6	46.0	-28.4	White
^	848.845k	39.9	+0.1	+6.1	+0.0	+0.1	+0.0	46.2	46.0	+0.2	White
77	1.519M Ave	10.0	+0.1	+6.1	+0.1	+0.1	+0.0	16.4	46.0	-29.6	White
^	1.519M	37.9	+0.1	+6.1	+0.1	+0.1	+0.0	44.3	46.0	-1.7	White

79	839.391k Ave	9.9	+0.1	+6.1	+0.0	+0.1	+0.0	16.2	46.0	-29.8	White
^	839.391k	38.9	+0.1	+6.1	+0.0	+0.1	+0.0	45.2	46.0	-0.8	White
81	1.030M Ave	9.0	+0.1	+6.1	+0.0	+0.1	+0.0	15.3	46.0	-30.7	White
^	1.030M	40.6	+0.1	+6.1	+0.0	+0.1	+0.0	46.9	46.0	+0.9	White
83	603.777k Ave	6.8	+0.2	+6.1	+0.1	+0.1	+0.0	13.3	46.0	-32.7	White
^	603.777k	39.4	+0.2	+6.1	+0.1	+0.1	+0.0	45.9	46.0	-0.1	White
^	600.868k	36.1	+0.2	+6.1	+0.1	+0.1	+0.0	42.6	46.0	-3.4	White



Test Location: CKC Laboratories, Inc. •110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer:	**Synapse Product Development, LLC**		
Specification:	**FCC 15.207 COND [AVE]**		
Work Order #:	**86173**	Date:	9/15/2007
Test Type:	**Conducted Emissions**	Time:	07:16:27
Equipment:	**WiFi and Bluetooth Enabled Media Player**	Sequence#:	55
Manufacturer:	Haier America LLC	Tested By:	E. Wong
Model:	MW101AQ		110V 60Hz
S/N:	NA		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
LISN	1104	11/10/2006	11/10/2008	00847
6dB Attenuator	None	11/21/2006	11/21/2008	P05611
150kHz HPF	G7755	01/30/2006	01/30/2008	02610
Conducted Emission Cable	Cable #21	05/09/2006	05/09/2008	P04358

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
AC Power Supply	Haier America LLC	LSD-D03	NA
WiFi and Bluetooth Enabled Media Player*	Haier America LLC	MW101AQ	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

The EUT is placed on the wooden table. A set of earphones is connected to the Audio port. Docking port is connected to a section of unterminated cable. USB port is connected to an AC power supply. The EUT is operating on Max power. Mode: Transmit and receive hopping, transmit audio data in Bluetooth signal. Display and hard drives are exercised. 23°C, 49% relative humidity. Cost reduced Power supply design.

Transducer Legend:

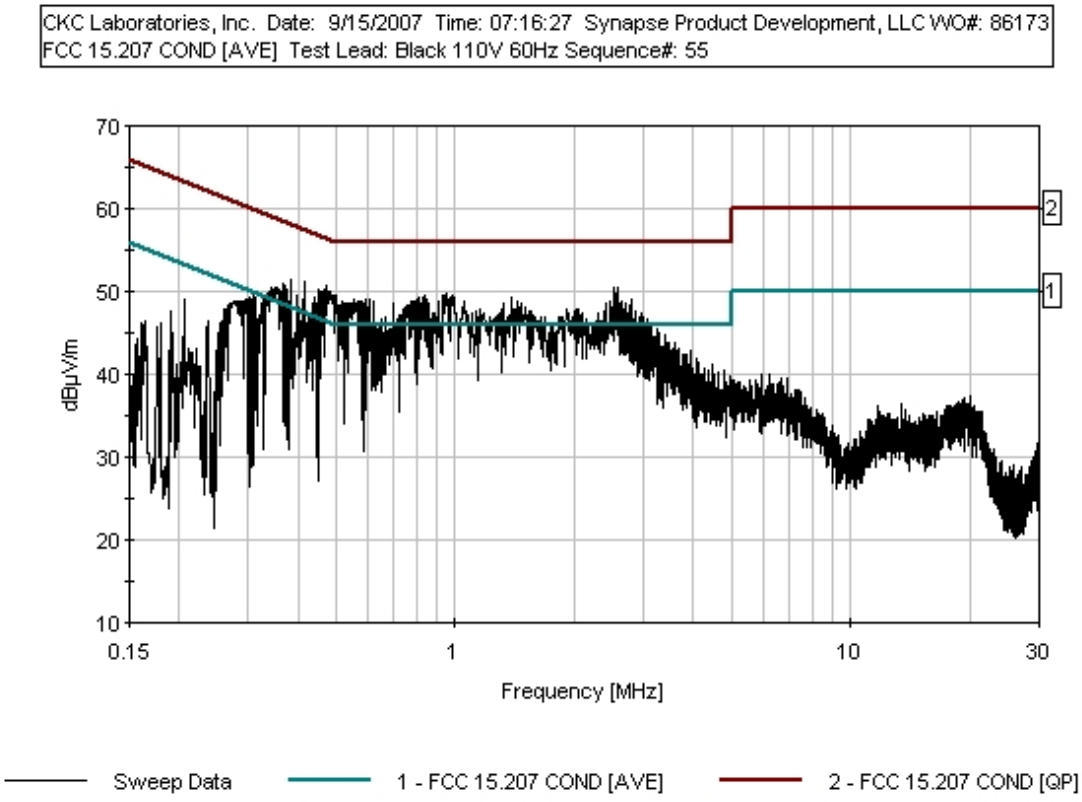
T1=150kHz HPF Asset 02610	T2=6dB Attenuator P05611
T3=Cable #21 Conducted Site A 050908	T4=(L1) Insertion Loss 00847 EMCO 3816/2NM

Measurement Data: Reading listed by margin. Test Lead: Black

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	388.331k Ave	31.9	+0.2	+6.2	+0.1	+0.0	+0.0	38.4	48.1	-9.7	Black
2	398.703k Ave	30.0	+0.2	+6.2	+0.1	+0.0	+0.0	36.5	47.9	-11.4	Black
^	398.704k	43.0	+0.2	+6.2	+0.1	+0.0	+0.0	49.5	47.9	+1.6	Black
4	444.926k Ave	28.7	+0.2	+6.2	+0.1	+0.0	+0.0	35.2	47.0	-11.8	Black
5	616.433k Ave	26.8	+0.2	+6.1	+0.1	+0.1	+0.0	33.3	46.0	-12.7	Black

6 Ave	742.672k	26.5	+0.1	+6.1	+0.1	+0.1	+0.0	32.9	46.0	-13.1	Black
^	742.672k	41.4	+0.1	+6.1	+0.1	+0.1	+0.0	47.8	46.0	+1.8	Black
8 Ave	622.683k	24.7	+0.2	+6.1	+0.1	+0.1	+0.0	31.2	46.0	-14.8	Black
^	622.683k	40.4	+0.2	+6.1	+0.1	+0.1	+0.0	46.9	46.0	+0.9	Black
10 Ave	388.331k	26.4	+0.2	+6.2	+0.1	+0.0	+0.0	32.9	48.1	-15.2	Black
^	388.331k	45.0	+0.2	+6.2	+0.1	+0.0	+0.0	51.5	48.1	+3.4	Black
^	384.159k	42.8	+0.2	+6.2	+0.1	+0.0	+0.0	49.3	48.2	+1.1	Black
13 Ave	384.159k	26.1	+0.2	+6.2	+0.1	+0.0	+0.0	32.6	48.2	-15.6	Black
14 Ave	2.765M	23.3	+0.1	+6.2	+0.1	+0.2	+0.0	29.9	46.0	-16.1	Black
^	2.765M	41.8	+0.1	+6.2	+0.1	+0.2	+0.0	48.4	46.0	+2.4	Black
16 Ave	2.778M	23.0	+0.1	+6.2	+0.1	+0.2	+0.0	29.6	46.0	-16.4	Black
^	2.778M	42.5	+0.1	+6.2	+0.1	+0.2	+0.0	49.1	46.0	+3.1	Black
18 Ave	2.591M	23.0	+0.1	+6.2	+0.1	+0.2	+0.0	29.6	46.0	-16.4	Black
^	2.591M	43.8	+0.1	+6.2	+0.1	+0.2	+0.0	50.4	46.0	+4.4	Black
20 Ave	439.427k	23.3	+0.2	+6.2	+0.1	+0.0	+0.0	29.8	47.1	-17.3	Black
^	439.427k	42.7	+0.2	+6.2	+0.1	+0.0	+0.0	49.2	47.1	+2.1	Black
^	437.973k	42.1	+0.2	+6.2	+0.1	+0.0	+0.0	48.6	47.1	+1.5	Black
23 Ave	1.468M	21.8	+0.1	+6.1	+0.0	+0.1	+0.0	28.1	46.0	-17.9	Black
^	1.468M	42.2	+0.1	+6.1	+0.0	+0.1	+0.0	48.5	46.0	+2.5	Black
25 Ave	1.103M	21.3	+0.1	+6.1	+0.0	+0.1	+0.0	27.6	46.0	-18.4	Black
^	1.103M	41.1	+0.1	+6.1	+0.0	+0.1	+0.0	47.4	46.0	+1.4	Black
27 Ave	552.144k	20.9	+0.2	+6.1	+0.1	+0.1	+0.0	27.4	46.0	-18.6	Black
^	552.144k	42.5	+0.2	+6.1	+0.1	+0.1	+0.0	49.0	46.0	+3.0	Black
29 Ave	3.063M	20.7	+0.1	+6.2	+0.1	+0.2	+0.0	27.3	46.0	-18.7	Black
^	3.063M	40.0	+0.1	+6.2	+0.1	+0.2	+0.0	46.6	46.0	+0.6	Black

31	1.919M Ave	20.0	+0.1	+6.1	+0.1	+0.1	+0.0	26.4	46.0	-19.6	Black
^	1.919M	41.4	+0.1	+6.1	+0.1	+0.1	+0.0	47.8	46.0	+1.8	Black
33	852.480k Ave	20.0	+0.1	+6.1	+0.0	+0.1	+0.0	26.3	46.0	-19.7	Black
^	852.480k	42.3	+0.1	+6.1	+0.0	+0.1	+0.0	48.6	46.0	+2.6	Black
35	797.212k Ave	19.5	+0.1	+6.1	+0.1	+0.1	+0.0	25.9	46.0	-20.1	Black
^	797.212k	42.7	+0.1	+6.1	+0.1	+0.1	+0.0	49.1	46.0	+3.1	Black
37	415.429k Ave	20.6	+0.2	+6.2	+0.1	+0.0	+0.0	27.1	47.5	-20.4	Black
^	415.429k	44.6	+0.2	+6.2	+0.1	+0.0	+0.0	51.1	47.5	+3.6	Black
39	591.413k Ave	18.7	+0.2	+6.1	+0.1	+0.1	+0.0	25.2	46.0	-20.8	Black
^	591.413k	42.5	+0.2	+6.1	+0.1	+0.1	+0.0	49.0	46.0	+3.0	Black
41	365.979k Ave	20.7	+0.2	+6.2	+0.1	+0.0	+0.0	27.2	48.6	-21.4	Black
^	365.979k	44.0	+0.2	+6.2	+0.1	+0.0	+0.0	50.5	48.6	+1.9	Black
43	605.957k Ave	16.8	+0.2	+6.1	+0.1	+0.1	+0.0	23.3	46.0	-22.7	Black
^	605.957k	42.6	+0.2	+6.1	+0.1	+0.1	+0.0	49.1	46.0	+3.1	Black
45	512.148k Ave	14.2	+0.2	+6.2	+0.1	+0.1	+0.0	20.8	46.0	-25.2	Black
^	512.148k	41.7	+0.2	+6.2	+0.1	+0.1	+0.0	48.3	46.0	+2.3	Black


CKC Laboratories, Inc. Date: 9/15/2007 Time: 07:16:27 Synapse Product Development, LLC WO#: 86173
FCC 15.207 COND [AVE] Test Lead: Black 110V 60Hz Sequence#: 55
70
60
50
40
30
20
10
dBµV/m
0.15
1
10
30
Frequency [MHz]
2
1
Sweep Data
1 - FCC 15.207 COND [AVE]
2 - FCC 15.207 COND [QP]

Test Location: CKC Laboratories, Inc. •110. N. Olinda Place. • Brea, CA 92821 • (714) 993-6112

Customer:	**Synapse Product Development, LLC**		
Specification:	**FCC 15.207 COND [AVE]**		
Work Order #:	**86173**	Date:	9/15/2007
Test Type:	**Conducted Emissions**	Time:	07:36:37
Equipment:	**WiFi and Bluetooth Enabled Media Player**	Sequence#:	56
Manufacturer:	Haier America LLC	Tested By:	E. Wong
Model:	MW101AQ		110V 60Hz
S/N:	NA		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	01/03/2007	01/03/2009	02672
LISN	1104	11/10/2006	11/10/2008	00847
6dB Attenuator	None	11/21/2006	11/21/2008	P05611
150kHz HPF	G7755	01/30/2006	01/30/2008	02610
Conducted Emission Cable	Cable #21	05/09/2006	05/09/2008	P04358

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
AC Power Supply	Haier America LLC	LSD-D03	NA
WiFi and Bluetooth Enabled Media Player*	Haier America LLC	MW101AQ	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

The EUT is placed on the wooden table. A set of earphones is connected to the Audio port. Docking port is connected to a section of unterminated cable. USB port is connected to an AC power supply. The EUT is operating on Max power. Mode: Transmit and receive hopping, transmit audio data in Bluetooth signal. Display and hard drives are exercised. 23°C, 49% relative humidity. Cost reduced Power supply design.

Transducer Legend:

T1=150kHz HPF Asset 02610	T2=6dB Attenuator P05611
T3=Cable #21 Conducted Site A 050908	T4=(L2) Insertion Loss 00847 EMCO 3816/2NM

Measurement Data: Reading listed by margin. Test Lead: White

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1 Ave	159.859k	32.6	+0.6	+6.2	+0.1	+0.2	+0.0	39.7	55.5	-15.8	White
^	159.859k	48.0	+0.6	+6.2	+0.1	+0.2	+0.0	55.1	55.5	-0.4	White
3 Ave	2.621M	19.6	+0.1	+6.2	+0.1	+0.2	+0.0	26.2	46.0	-19.8	White
^	2.621M	39.7	+0.1	+6.2	+0.1	+0.2	+0.0	46.3	46.0	+0.3	White

5	2.472M Ave	18.9	+0.1	+6.2	+0.1	+0.2	+0.0	25.5	46.0	-20.5	White
^	2.472M	39.1	+0.1	+6.2	+0.1	+0.2	+0.0	45.7	46.0	-0.3	White
7	510.693k Ave	17.2	+0.2	+6.2	+0.1	+0.1	+0.0	23.8	46.0	-22.2	White
^	510.693k	41.1	+0.2	+6.2	+0.1	+0.1	+0.0	47.7	46.0	+1.7	White
9	2.668M Ave	17.1	+0.1	+6.2	+0.1	+0.2	+0.0	23.7	46.0	-22.3	White
^	2.668M	42.5	+0.1	+6.2	+0.1	+0.2	+0.0	49.1	46.0	+3.1	White
11	621.956k Ave	14.1	+0.2	+6.1	+0.1	+0.1	+0.0	20.6	46.0	-25.4	White
^	621.956k	41.0	+0.2	+6.1	+0.1	+0.1	+0.0	47.5	46.0	+1.5	White
13	472.151k Ave	14.4	+0.2	+6.2	+0.1	+0.1	+0.0	21.0	46.5	-25.5	White
^	472.151k	46.7	+0.2	+6.2	+0.1	+0.1	+0.0	53.3	46.5	+6.8	White
^	474.333k	39.6	+0.2	+6.2	+0.1	+0.1	+0.0	46.2	46.4	-0.2	White
16	1.115M Ave	13.9	+0.1	+6.1	+0.0	+0.1	+0.0	20.2	46.0	-25.8	White
^	1.115M	41.4	+0.1	+6.1	+0.0	+0.1	+0.0	47.7	46.0	+1.7	White
18	484.514k Ave	13.5	+0.2	+6.2	+0.1	+0.1	+0.0	20.1	46.3	-26.2	White
19	792.122k Ave	13.1	+0.1	+6.1	+0.1	+0.1	+0.0	19.5	46.0	-26.5	White
^	792.122k	40.4	+0.1	+6.1	+0.1	+0.1	+0.0	46.8	46.0	+0.8	White
21	745.581k Ave	12.5	+0.1	+6.1	+0.1	+0.1	+0.0	18.9	46.0	-27.1	White
^	745.581k	43.3	+0.1	+6.1	+0.1	+0.1	+0.0	49.7	46.0	+3.7	White
23	484.514k Ave	12.5	+0.2	+6.2	+0.1	+0.1	+0.0	19.1	46.3	-27.2	White
^	484.514k	45.3	+0.2	+6.2	+0.1	+0.1	+0.0	51.9	46.3	+5.6	White
25	2.748M Ave	11.8	+0.1	+6.2	+0.1	+0.2	+0.0	18.4	46.0	-27.6	White
^	2.748M	38.8	+0.1	+6.2	+0.1	+0.2	+0.0	45.4	46.0	-0.6	White
27	4.207M Ave	11.5	+0.1	+6.2	+0.2	+0.2	+0.0	18.2	46.0	-27.8	White
^	4.207M	39.1	+0.1	+6.2	+0.2	+0.2	+0.0	45.8	46.0	-0.2	White

29 Ave	4.330M	11.0	+0.1	+6.2	+0.2	+0.2	+0.0	17.7	46.0	-28.3	White
^	4.330M	40.3	+0.1	+6.2	+0.2	+0.2	+0.0	47.0	46.0	+1.0	White
31 Ave	371.070k	12.3	+0.2	+6.2	+0.1	+0.1	+0.0	18.9	48.5	-29.6	White
^	371.070k	46.2	+0.2	+6.2	+0.1	+0.1	+0.0	52.8	48.5	+4.3	White
^	371.070k	39.8	+0.2	+6.2	+0.1	+0.1	+0.0	46.4	48.5	-2.1	White
34 Ave	811.029k	10.0	+0.1	+6.1	+0.1	+0.1	+0.0	16.4	46.0	-29.6	White
^	811.029k	43.9	+0.1	+6.1	+0.1	+0.1	+0.0	50.3	46.0	+4.3	White
36 Ave	686.677k	9.6	+0.2	+6.1	+0.1	+0.1	+0.0	16.1	46.0	-29.9	White
^	686.677k	41.0	+0.2	+6.1	+0.1	+0.1	+0.0	47.5	46.0	+1.5	White
38 Ave	456.880k	10.1	+0.2	+6.2	+0.1	+0.1	+0.0	16.7	46.7	-30.0	White
^	456.880k	46.9	+0.2	+6.2	+0.1	+0.1	+0.0	53.5	46.7	+6.8	White
40 Ave	821.210k	8.6	+0.1	+6.1	+0.1	+0.1	+0.0	15.0	46.0	-31.0	White
^	821.210k	43.6	+0.1	+6.1	+0.1	+0.1	+0.0	50.0	46.0	+4.0	White
42 Ave	840.117k	8.4	+0.1	+6.1	+0.0	+0.1	+0.0	14.7	46.0	-31.3	White
^	840.118k	43.8	+0.1	+6.1	+0.0	+0.1	+0.0	50.1	46.0	+4.1	White
44 Ave	544.145k	7.6	+0.2	+6.1	+0.1	+0.1	+0.0	14.1	46.0	-31.9	White
^	544.145k	40.5	+0.2	+6.1	+0.1	+0.1	+0.0	47.0	46.0	+1.0	White
^	540.509k	39.1	+0.2	+6.1	+0.1	+0.1	+0.0	45.6	46.0	-0.4	White
47 Ave	424.156k	8.7	+0.2	+6.2	+0.1	+0.1	+0.0	15.3	47.4	-32.1	White
^	424.156k	46.0	+0.2	+6.2	+0.1	+0.1	+0.0	52.6	47.4	+5.2	White
49 Ave	362.343k	9.3	+0.2	+6.2	+0.1	+0.1	+0.0	15.9	48.7	-32.8	White
^	362.343k	45.3	+0.2	+6.2	+0.1	+0.1	+0.0	51.9	48.7	+3.2	White
51 Ave	4.475M	5.1	+0.1	+6.2	+0.2	+0.2	+0.0	11.8	46.0	-34.2	White
^	4.475M	38.8	+0.1	+6.2	+0.2	+0.2	+0.0	45.5	46.0	-0.5	White
53 Ave	4.475M	5.1	+0.1	+6.2	+0.2	+0.2	+0.0	11.8	46.0	-34.2	White

54 Ave	197.995k	7.6	+0.2	+6.1	+0.1	+0.2	+0.0	14.2	53.7	-39.5	White
^	197.995k	46.7	+0.2	+6.1	+0.1	+0.2	+0.0	53.3	53.7	-0.4	White
^	196.540k	46.6	+0.2	+6.1	+0.1	+0.2	+0.0	53.2	53.8	-0.6	White
57 Ave	192.904k	7.2	+0.2	+6.1	+0.1	+0.2	+0.0	13.8	53.9	-40.1	White
^	192.904k	47.7	+0.2	+6.1	+0.1	+0.2	+0.0	54.3	53.9	+0.4	White
59 Ave	186.359k	6.8	+0.2	+6.1	+0.1	+0.2	+0.0	13.4	54.2	-40.8	White
^	186.359k	47.3	+0.2	+6.1	+0.1	+0.2	+0.0	53.9	54.2	-0.3	White
^	181.996k	47.2	+0.3	+6.1	+0.1	+0.2	+0.0	53.9	54.4	-0.5	White