



ANCHOR AUDIO, INC. TEST REPORT
FOR THE
WIRELESS INTERCOM, WM-900
FCC PART 74 & PART 15 SUBPART B SECTIONS 15.107 AND 15.109 CLASS B
TESTING

DATE OF ISSUE: OCTOBER 23, 2007

PREPARED FOR:

Anchor Audio, Inc.
2565 West 237th Street
Torrance, CA 95050

P.O. No.: 0008114
W.O. No.: 87111

PREPARED BY:

Mary Ellen Clayton
CKC Laboratories, Inc.
5046 Sierra Pines Drive
Mariposa, CA 95338

Date of test: October 17-19, 2007

Report No.: FC07-092

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ADMINISTRATIVE INFORMATION

DATE OF TEST: October 17-19, 2007

DATE OF RECEIPT: October 17, 2007

REPRESENTATIVE: Tony Morgan

MANUFACTURER:
Anchor Audio, Inc.
2565 West 237th Street
Torrance, CA 95050

TEST LOCATION:
CKC Laboratories, Inc.
110 Olinda Place
Brea, CA 92823

FREQUENCY RANGE TESTED: 9 kHz-10 GHz

TEST METHOD: ANSI C63.4 (2003) and TIA/EIA

PURPOSE OF TEST: To perform the testing of the Wireless Intercom, WM-900 with the requirements for FCC Part 74 & Part 15 Subpart B Sections 15.107 and 15.109 Class B devices.

APPROVALS

Steve Behm, Director of Engineering Services

QUALITY ASSURANCE:

Joyce Walker, Quality Assurance Administrative Manager

TEST PERSONNEL:

Eddie Wong, EMC Engineer

CONDITIONS DURING TESTING

No modifications to the EUT were necessary during testing.



EQUIPMENT UNDER TEST (EUT) DESCRIPTION

The customer declares the EUT tested by CKC Laboratories was representative of a production unit.

EQUIPMENT UNDER TEST

Wireless Intercom

Manuf: Anchor Audio, Inc.
Model: WM-900
Serial: NA
FCC ID: pending

Power Supply

Manuf: UMEC
Model: UP0151D-06P
Serial: CH42Q852

PERIPHERAL DEVICES

The EUT was tested with the following peripheral device(s):

Function Generator

Manuf: HP
Model: 3312A
Serial: US36023090

TEMPERATURE AND HUMIDITY DURING TESTING

The temperature during testing was within +15°C and + 35°C.
The relative humidity was between 20% and 75%.

FCC 2.1033(c)(3) USER'S MANUAL

The necessary information is contained in a separate document.

FCC 2.1033 (c)(4) TYPE OF EMISSIONS

F3E

FCC 2.1033 (c)(5) FREQUENCY RANGE

945 MHz – 951 MHz.

FCC 2.1033 (c)(6) OPERATING POWER

0.00558 Watts

FCC 2.1033 (c)(7) MAXIMUM POWER RATING

1 Watt

FCC 2.1033 (c)(8) DC VOLTAGES

The necessary information is contained in a separate document.

FCC 2.1033 (c)(9) TUNE-UP PROCEDURE

The necessary information is contained in a separate document.

FCC 2.1033(c)(10) SCHEMATICS AND CIRCUITRY DESCRIPTION

The necessary information is contained in a separate document.

FCC 2.1033(c)(11) LABEL AND PLACEMENT

The necessary information is contained in a separate document.

FCC 2.1033(c)(12) SUBMITTAL PHOTOS

The necessary information is contained in a separate document.

FCC 2.1033 (c)(13) MODULATION INFORMATION

The necessary information is contained in a separate document.

FCC 15.107 – AC CONDUCTED EMISSIONS

Test Setup Photos



Test Data Sheets

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

Customer: **Anchor Audio, Inc.**
 Specification: **FCC 15.107 Class B COND [AVE]**
 Work Order #: **87111** Date: 10/18/2007
 Test Type: **Conducted Emissions** Time: 09:52:47
 Equipment: **Wireless Intercom** Sequence#: 2
 Manufacturer: Anchor Audio, Inc. Tested By: E. Wong
 Model: WM-900 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
Wireless Intercom*	Anchor Audio, Inc.	WM-900	NA
Power Supply	UMEC	UP0151D-06P	CH42Q852

Support Devices:

Function	Manufacturer	Model #	S/N
Function Generator	HP	3312A	US36023090

Test Conditions / Notes:

The EUT is placed on the wooden table with 5 cm of Styrofoam surface. A 1kHz, 2Vp-p audio signal is injected into channel A from a remote Function generator. Audio volume and Wireless volume are set at maximum. EUT operating range: 945 - 951MHz. Tx and Rx antenna orientation: Horizontal. Tx: 945MHz, Rx: 946.6MHz, 948.2MHz, 949.8MHz. 20°C, 56% relative humidity. Frequency range tested: 150 kHz – 30 MHz BW 9kHz.

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:

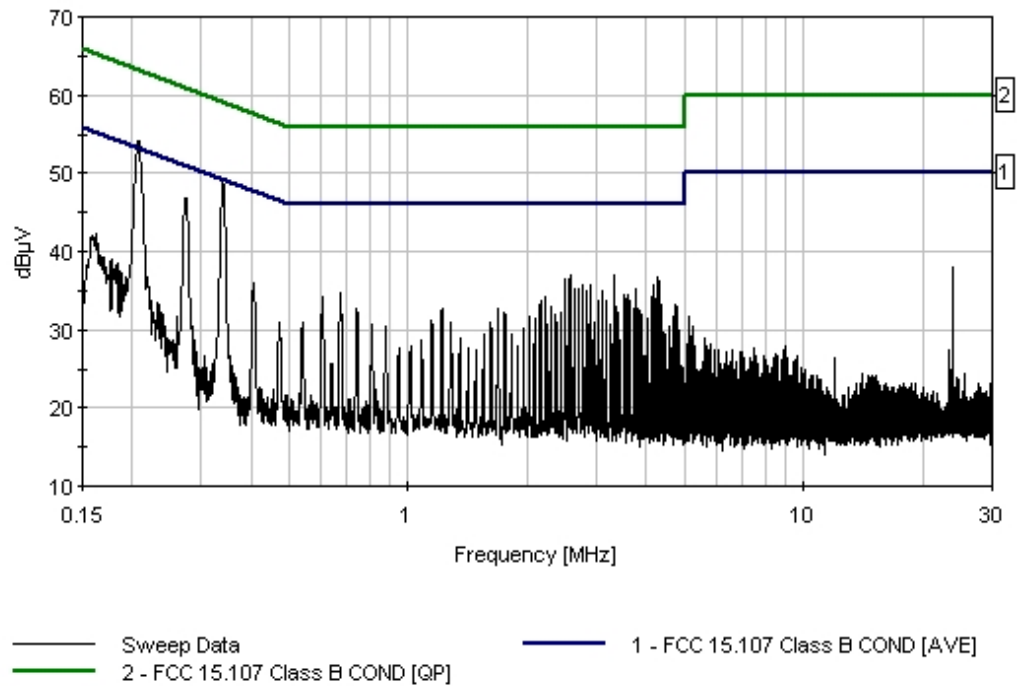
Reading listed by margin.

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	272.898k	40.4	+0.2	+6.1	+0.1	+0.1	+0.0	46.9	51.0	-4.1	Black
2	338.000k	37.8	+0.2	+6.2	+0.1	+0.1	+0.0	44.4	49.3	-4.9	Black
Ave	339.801k	42.5	+0.2	+6.2	+0.1	+0.1	+0.0	49.1	49.2	-0.1	Black
4	202.545k	38.6	+0.2	+6.1	+0.1	+0.1	+0.0	45.1	53.5	-8.4	Black
Ave											

5	2.566M	30.5	+0.1	+6.2	+0.1	+0.2	+0.0	37.1	46.0	-8.9	Black
6	3.306M	30.5	+0.1	+6.2	+0.1	+0.2	+0.0	37.1	46.0	-8.9	Black
7	4.250M	30.0	+0.1	+6.2	+0.2	+0.2	+0.0	36.7	46.0	-9.3	Black
8	2.497M	29.9	+0.1	+6.2	+0.1	+0.2	+0.0	36.5	46.0	-9.5	Black
9	4.318M	29.5	+0.1	+6.2	+0.2	+0.2	+0.0	36.2	46.0	-9.8	Black
10	2.902M	29.1	+0.1	+6.2	+0.1	+0.2	+0.0	35.7	46.0	-10.3	Black
11	2.765M	29.0	+0.1	+6.2	+0.1	+0.2	+0.0	35.6	46.0	-10.4	Black
12	4.182M	28.9	+0.1	+6.2	+0.2	+0.2	+0.0	35.6	46.0	-10.4	Black
13	2.634M	28.6	+0.1	+6.2	+0.1	+0.2	+0.0	35.2	46.0	-10.8	Black
14	3.782M	28.5	+0.1	+6.2	+0.2	+0.2	+0.0	35.2	46.0	-10.8	Black
15	2.697M	28.5	+0.1	+6.2	+0.1	+0.2	+0.0	35.1	46.0	-10.9	Black
16	3.106M	28.4	+0.1	+6.2	+0.1	+0.2	+0.0	35.0	46.0	-11.0	Black
17	207.449k Ave	30.9	+0.2	+6.1	+0.1	+0.1	+0.0	37.4	53.3	-15.9	Black
^	207.449k	47.6	+0.2	+6.1	+0.1	+0.1	+0.0	54.1	53.3	+0.8	Black
^	202.545k	47.6	+0.2	+6.1	+0.1	+0.1	+0.0	54.1	53.5	+0.6	Black
20	207.449k Ave	30.9	+0.2	+6.1	+0.1	+0.1	+0.0	37.4	53.3	-15.9	Black

CKC Laboratories, Inc. Date: 10/18/2007 Time: 09:52:47 Anchor Audio, Inc. WVO#: 87111
 FCC 15.107 Class B COND [AVE] Test Lead: Black 110V 60Hz Sequence#: 2



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

Customer: **Anchor Audio, Inc.**
 Specification: **FCC 15.107 Class B COND [AVE]**
 Work Order #: **87111** Date: 10/18/2007
 Test Type: **Conducted Emissions** Time: 09:58:06
 Equipment: **Wireless Intercom** Sequence#: 3
 Manufacturer: Anchor Audio, Inc. Tested By: E. Wong
 Model: WM-900 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
Wireless Intercom*	Anchor Audio, Inc.	WM-900	NA
Power Supply	UMEC	UP0151D-06P	CH42Q852

Support Devices:

Function	Manufacturer	Model #	S/N
Function Generator	HP	3312A	US36023090

Test Conditions / Notes:

The EUT is placed on the wooden table with 5 cm of Styrofoam surface. A 1kHz, 2Vp-p audio signal is injected into channel A from a remote Function generator. Audio volume and Wireless volume are set at maximum. EUT operating range: 945 - 951MHz. Tx and Rx antenna orientation: Horizontal. Tx: 945MHz, Rx: 946.6MHz, 948.2MHz, 949.8MHz. 20°C, 56% relative humidity. Frequency range tested: 150 kHz – 30 MHz BW 9kHz.

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:

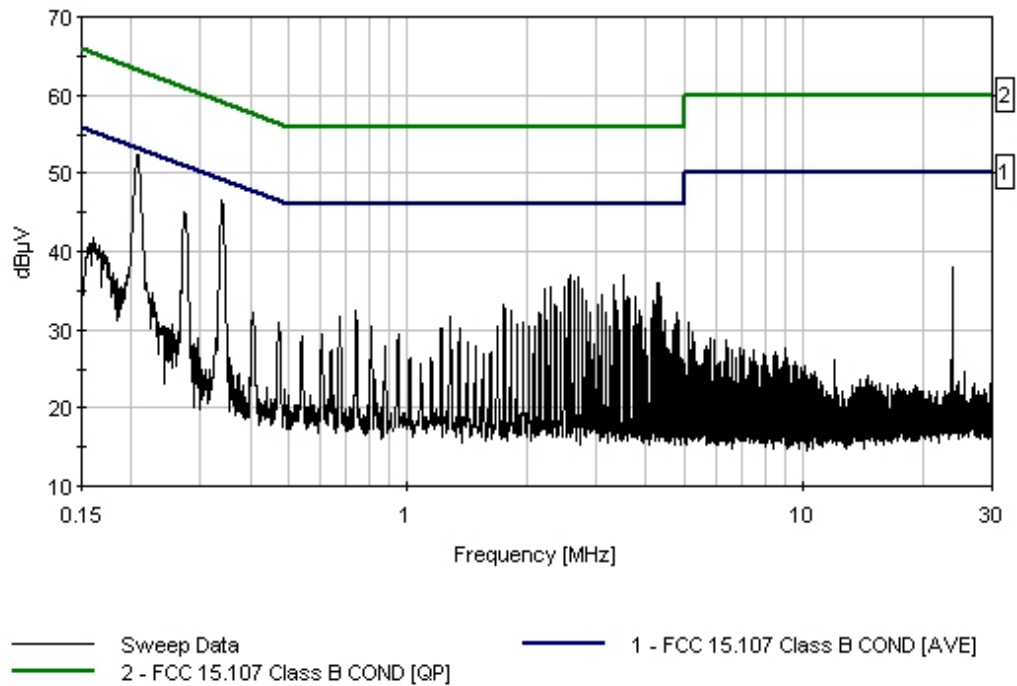
Reading listed by margin.

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	273.624k	38.6	+0.2	+6.1	+0.1	+0.1	+0.0	45.1	51.0	-5.9	White
2	337.398k	34.4	+0.2	+6.2	+0.1	+0.1	+0.0	41.0	49.3	-8.3	White
3	2.566M	30.4	+0.1	+6.2	+0.1	+0.2	+0.0	37.0	46.0	-9.0	White
4	3.510M	30.2	+0.1	+6.2	+0.2	+0.2	+0.0	36.9	46.0	-9.1	White
5	2.702M	30.2	+0.1	+6.2	+0.1	+0.2	+0.0	36.8	46.0	-9.2	White

6	339.800k	32.7	+0.2	+6.2	+0.1	+0.1	+0.0	39.3	49.2	-9.9	White
	Ave										
^	339.800k	39.9	+0.2	+6.2	+0.1	+0.1	+0.0	46.5	49.2	-2.7	White
^	337.398k	39.8	+0.2	+6.2	+0.1	+0.1	+0.0	46.4	49.3	-2.9	White
9	2.634M	29.5	+0.1	+6.2	+0.1	+0.2	+0.0	36.1	46.0	-9.9	White
10	4.250M	29.3	+0.1	+6.2	+0.2	+0.2	+0.0	36.0	46.0	-10.0	White
11	4.318M	29.2	+0.1	+6.2	+0.2	+0.2	+0.0	35.9	46.0	-10.1	White
12	3.306M	29.2	+0.1	+6.2	+0.1	+0.2	+0.0	35.8	46.0	-10.2	White
13	2.293M	28.8	+0.1	+6.2	+0.1	+0.2	+0.0	35.4	46.0	-10.6	White
14	2.497M	28.8	+0.1	+6.2	+0.1	+0.2	+0.0	35.4	46.0	-10.6	White
15	2.230M	28.9	+0.1	+6.1	+0.1	+0.1	+0.0	35.3	46.0	-10.7	White
16	2.765M	28.6	+0.1	+6.2	+0.1	+0.2	+0.0	35.2	46.0	-10.8	White
17	202.444k	35.5	+0.2	+6.1	+0.1	+0.2	+0.0	42.1	53.5	-11.4	White
	Ave										
^	202.444k	45.7	+0.2	+6.1	+0.1	+0.2	+0.0	52.3	53.5	-1.2	White
19	3.106M	27.8	+0.1	+6.2	+0.1	+0.2	+0.0	34.4	46.0	-11.6	White
20	207.448k	28.2	+0.2	+6.1	+0.1	+0.2	+0.0	34.8	53.3	-18.5	White
	Ave										
^	207.448k	45.7	+0.2	+6.1	+0.1	+0.2	+0.0	52.3	53.3	-1.0	White

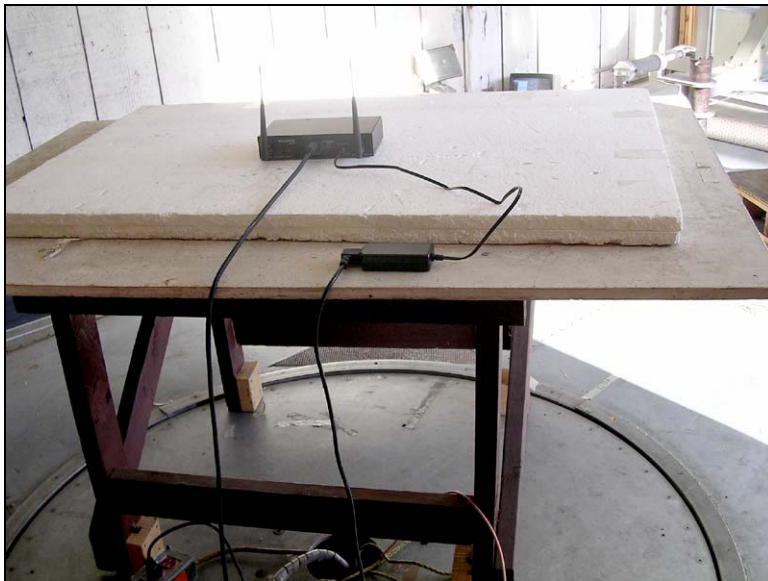
CKC Laboratories, Inc. Date: 10/18/2007 Time: 09:58:06 Anchor Audio, Inc. WVO#: 87111
 FCC 15.107 Class B COND [AVE] Test Lead: White 110V 60Hz Sequence#: 3



FCC 15.109 – RADIATED EMISSIONS

Test Setup Photos





Test Data Sheets

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

Customer: **Anchor Audio, Inc.**
 Specification: **FCC 15.109 Class B**
 Work Order #: **87111**
 Test Type: **Radiated Scan**
 Equipment: **Wireless Intercom**
 Manufacturer: Anchor Audio, Inc.
 Model: WM-900
 S/N: NA

Date: 10/17/2007
 Time: 14:50:27
 Sequence#: 1
 Tested By: E. Wong

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
Horn Antenna	6246	06/29/2006	06/29/2008	00849
Microwave Pre-amp	3123A00281	07/19/2006	07/19/2008	00786
Heliac Antenna Cable	P5565	09/18/2006	09/18/2008	P05565
2'-40GHz cable	NA	09/18/2007	09/18/2009	P2948

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless Intercom*	Anchor Audio, Inc.	WM-900	NA
Power Supply	UMEC	UP0151D-06P	CH42Q852

Support Devices:

Function	Manufacturer	Model #	S/N
Function Generator	HP	3312A	US36023090

Test Conditions / Notes:

The EUT is placed on the wooden table with 5 cm of Styrofoam surface. A 1kHz, 2Vp-p audio signal is injected into channel A from a remote Function generator. Audio volume and Wireless volume are set at maximum. EUT operating range: 945 - 951MHz. Tx and Rx antenna orientation: Vertical. Tx: 945MHz, Rx: 946.6MHz, 948.2MHz, 949.8MHz. Frequency range of measurement = 30MHz - 10GHz. Frequency 30 MHz - 1000 MHz RBW=120 kHz, VBW=120 kHz; 1000 MHz - 10,000 MHz RBW=1 MHz, VBW=1 MHz. 20°C, 56% relative humidity.

Transducer Legend:

T1=Preamp 8447D 060108	T2=Bilog AN01995 020208 Chase
T3=Cable #10 051609	T4=Cable #15, Site A, 010509
T5=Pre amp 1- 26GHz 071908	T6=54' Heliac Cable 091808 P05565
T7=Hi Freq 40GHz 2ft-ANP02948-091809	T8=Horn 00849_062908
T9=Filter 1GHz HP AN02749	

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9	T2 T6	T3 T7	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dB μ V	dB	dB	dB	dB	Table	dB μ V/m	dB μ V/m	dB	Ant
1	864.600M	38.7	-27.1 +0.0 +0.0	+23.3 +0.0	+0.5 +0.0	+5.8 +0.0	+0.0	41.2	46.0	-4.8	Vert
^	864.597M	40.2	-27.1 +0.0 +0.0	+23.3 +0.0	+0.5 +0.0	+5.8 +0.0	+0.0	42.7	46.0	-3.3	Vert
3	475.533M	43.8	-27.6 +0.0 +0.0	+17.6 +0.0	+0.3 +0.0	+4.1 +0.0	+0.0	38.2	46.0	-7.8	Vert
4	1124.920M	58.0	+0.0 -40.6 +0.7	+0.0 +2.3	+0.0 +0.3	+0.0 +24.8	+0.0	45.5	54.0	-8.5	Vert
5	864.603M	34.2	-27.1 +0.0 +0.0	+23.3 +0.0	+0.5 +0.0	+5.8 +0.0	+0.0	36.7	46.0	-9.3	Horiz
6	1105.170M	55.5	+0.0 -40.7 +0.7	+0.0 +2.3	+0.0 +0.3	+0.0 +24.7	+0.0	42.8	54.0	-11.2	Vert
7	298.567M	45.8	-27.6 +0.0 +0.0	+13.2 +0.0	+0.2 +0.0	+3.2 +0.0	+0.0	34.8	46.0	-11.2	Horiz
8	497.660M	39.6	-27.6 +0.0 +0.0	+18.1 +0.0	+0.3 +0.0	+4.2 +0.0	+0.0	34.6	46.0	-11.4	Vert
9	924.830M	30.9	-27.1 +0.0 +0.0	+24.0 +0.0	+0.6 +0.0	+6.0 +0.0	+0.0	34.4	46.0	-11.6	Horiz
10	199.995M	47.6	-27.6 +0.0 +0.0	+8.8 +0.0	+0.2 +0.0	+2.6 +0.0	+0.0	31.6	43.5	-11.9	Horiz
11	236.250M	47.0	-27.6 +0.0 +0.0	+11.6 +0.0	+0.2 +0.0	+2.8 +0.0	+0.0	34.0	46.0	-12.0	Horiz

12	825.030M	32.3	-27.1 +0.0 +0.0	+22.6 +0.0	+0.6 +0.0	+5.6 +0.0	+0.0	34.0	46.0	-12.0	Vert
13	965.033M	37.1	-27.1 +0.0 +0.0	+24.7 +0.0	+0.7 +0.0	+6.2 +0.0	+0.0	41.6	54.0	-12.4	Vert
14	1145.170M	53.7	+0.0 -40.5 +0.7	+0.0 +2.3	+0.0 +0.3	+0.0 +24.8	+0.0	41.3	54.0	-12.7	Vert
15	2919.100M	44.8	+0.0 -38.5 +0.3	+0.0 +3.9	+0.0 +0.4	+0.0 +30.2	+0.0	41.1	54.0	-12.9	Vert
16	763.120M	31.6	-27.0 +0.0 +0.0	+22.1 +0.0	+0.5 +0.0	+5.4 +0.0	+0.0	32.6	46.0	-13.4	Horiz
17	1084.750M	53.0	+0.0 -40.8 +0.8	+0.0 +2.3	+0.0 +0.3	+0.0 +24.7	+0.0	40.3	54.0	-13.7	Vert
18	1729.142M Ave	50.1	+0.0 -39.0 +0.4	+0.0 +2.8	+0.0 +0.3	+0.0 +25.6	+0.0	40.2	54.0	-13.8	Vert
^	1729.142M	53.6	+0.0 -39.0 +0.4	+0.0 +2.8	+0.0 +0.3	+0.0 +25.6	+0.0	43.7	54.0	-10.3	Vert
20	792.150M	30.9	-27.1 +0.0 +0.0	+21.9 +0.0	+0.6 +0.0	+5.5 +0.0	+0.0	31.8	46.0	-14.2	Vert
21	804.920M	30.6	-27.1 +0.0 +0.0	+22.0 +0.0	+0.6 +0.0	+5.5 +0.0	+0.0	31.6	46.0	-14.4	Vert
22	343.570M	41.0	-27.6 +0.0 +0.0	+14.3 +0.0	+0.3 +0.0	+3.5 +0.0	+0.0	31.5	46.0	-14.5	Horiz
23	210.130M	44.1	-27.6 +0.0 +0.0	+9.6 +0.0	+0.2 +0.0	+2.6 +0.0	+0.0	28.9	43.5	-14.6	Vert
24	804.970M	29.8	-27.1 +0.0 +0.0	+22.0 +0.0	+0.6 +0.0	+5.5 +0.0	+0.0	30.8	46.0	-15.2	Horiz
25	328.570M	40.6	-27.6 +0.0 +0.0	+14.0 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	30.7	46.0	-15.3	Horiz
26	366.070M	39.2	-27.7 +0.0 +0.0	+14.9 +0.0	+0.3 +0.0	+3.6 +0.0	+0.0	30.3	46.0	-15.7	Horiz
27	838.580M	27.7	-27.1 +0.0 +0.0	+23.0 +0.0	+0.6 +0.0	+5.7 +0.0	+0.0	29.9	46.0	-16.1	Horiz
28	319.980M	40.3	-27.6 +0.0 +0.0	+13.7 +0.0	+0.2 +0.0	+3.3 +0.0	+0.0	29.9	46.0	-16.1	Vert

29	357.480M	38.1	-27.6 +0.0 +0.0	+14.7 +0.0	+0.3 +0.0	+3.5 +0.0	+0.0	29.0	46.0	-17.0	Vert
30	313.570M	39.3	-27.6 +0.0 +0.0	+13.6 +0.0	+0.2 +0.0	+3.3 +0.0	+0.0	28.8	46.0	-17.2	Horiz
31	541.880M	31.4	-27.4 +0.0 +0.0	+19.5 +0.0	+0.5 +0.0	+4.5 +0.0	+0.0	28.5	46.0	-17.5	Vert
32	409.980M	36.0	-27.8 +0.0 +0.0	+16.1 +0.0	+0.4 +0.0	+3.8 +0.0	+0.0	28.5	46.0	-17.5	Vert
33	236.250M	41.2	-27.6 +0.0 +0.0	+11.6 +0.0	+0.2 +0.0	+2.8 +0.0	+0.0	28.2	46.0	-17.8	Vert
34	298.580M	38.0	-27.6 +0.0 +0.0	+13.2 +0.0	+0.2 +0.0	+3.2 +0.0	+0.0	27.0	46.0	-19.0	Vert
35	1729.217M Ave	44.7	+0.0 -39.0 +0.4	+0.0 +2.8	+0.0 +0.3	+0.0 +25.6	+0.0	34.8	54.0	-19.2	Horiz
^	1729.217M	48.6	+0.0 -39.0 +0.4	+0.0 +2.8	+0.0 +0.3	+0.0 +25.6	+0.0	38.7	54.0	-15.3	Horiz
37	965.000M	29.4	-27.1 +0.0 +0.0	+24.7 +0.0	+0.7 +0.0	+6.2 +0.0	+0.0	33.9	54.0	-20.1	Horiz
38	411.070M	32.8	-27.8 +0.0 +0.0	+16.1 +0.0	+0.4 +0.0	+3.8 +0.0	+0.0	25.3	46.0	-20.7	Horiz
39	219.970M	39.1	-27.6 +0.0 +0.0	+10.4 +0.0	+0.2 +0.0	+2.7 +0.0	+0.0	24.8	46.0	-21.2	Vert
40	334.980M	32.4	-27.6 +0.0 +0.0	+14.1 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	22.6	46.0	-23.4	Vert
41	165.000M	33.7	-27.7 +0.0 +0.0	+9.9 +0.0	+0.3 +0.0	+2.3 +0.0	+0.0	18.5	43.5	-25.0	Horiz



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

Customer: **Anchor Audio, Inc.**
 Specification: **FCC 15.109 Class B**
 Work Order #: **87111**
 Test Type: **Radiated Scan**
 Equipment: **Wireless Intercom**
 Manufacturer: Anchor Audio, Inc.
 Model: WM-900
 S/N: NA

Date: 10/17/2007
 Time: 15:10:18
 Sequence#: 2
 Tested By: E. Wong

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
Horn Antenna	6246	06/29/2006	06/29/2008	00849
Microwave Pre-amp	3123A00281	07/19/2006	07/19/2008	00786
Heliast Antenna Cable	P5565	09/18/2006	09/18/2008	P05565
2'-40GHz cable	NA	09/18/2007	09/18/2009	P2948

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless Intercom*	Anchor Audio, Inc.	WM-900	NA
Power Supply	UMEC	UP0151D-06P	CH42Q852

Support Devices:

Function	Manufacturer	Model #	S/N
Function Generator	HP	3312A	US36023090

Test Conditions / Notes:

The EUT is placed on the wooden table with 5 cm of Styrofoam surface. A 1kHz, 2Vp-p audio signal is injected into channel A from a remote Function generator. Audio volume and Wireless volume are set at maximum. EUT operating range: 945 - 951MHz. Tx and Rx antenna orientation: Horizontal. Tx: 945MHz, Rx: 946.6MHz, 948.2MHz, 949.8MHz. Frequency range of measurement = 30MHz - 10 GHz. Frequency 30 MHz - 1000 MHz RBW=120 kHz, VBW=120 kHz; 1000 MHz - 10,000 MHz RBW=1 MHz, VBW=1 MHz. 20°C, 56% relative humidity.

Transducer Legend:

T1=Preamp 8447D 060108	T2=Bilog AN01995 020208 Chase
T3=Cable #10 051609	T4=Cable #15, Site A, 010509
T5=Pre amp 1- 26GHz 071908	T6=54' Heliac Cable 091808 P05565
T7=Hi Freq 40GHz 2ft-ANP02948-091809	T8=Horn 00849_062908
T9=Filter 1GHz HP AN02749	

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9	T2 T6	T3 T7	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dB μ V	dB	dB	dB	dB	Table	dB μ V/m	dB μ V/m	dB	Ant
1	3273.910M	51.7	+0.0 -38.3 +0.4	+0.0 +4.2	+0.0 +0.4	+0.0 +31.0	+0.0	49.4	54.0	-4.6	Vert
^	3273.910M	54.1	+0.0 -38.3 +0.4	+0.0 +4.2	+0.0 +0.4	+0.0 +31.0	+0.0	51.8	54.0	-2.2	Vert
3	924.967M	36.8	-27.1 +0.0 +0.0	+24.0 +0.0	+0.6 +0.0	+6.0 +0.0	+0.0	40.3	46.0	-5.7	Horiz
^	924.970M	38.9	-27.1 +0.0 +0.0	+24.0 +0.0	+0.6 +0.0	+6.0 +0.0	+0.0	42.4	46.0	-3.6	Horiz
5	864.615M	37.5	-27.1 +0.0 +0.0	+23.3 +0.0	+0.5 +0.0	+5.8 +0.0	+0.0	40.0	46.0	-6.0	Vert
6	3272.830M	49.5	+0.0 -38.3 +0.4	+0.0 +4.2	+0.0 +0.4	+0.0 +31.0	+0.0	47.2	54.0	-6.8	Horiz
7	925.066M	35.2	-27.1 +0.0 +0.0	+24.0 +0.0	+0.6 +0.0	+6.0 +0.0	+0.0	38.7	46.0	-7.3	Vert
8	236.267M	51.5	-27.6 +0.0 +0.0	+11.6 +0.0	+0.2 +0.0	+2.8 +0.0	+0.0	38.5	46.0	-7.5	Horiz
9	864.600M	35.6	-27.1 +0.0 +0.0	+23.3 +0.0	+0.5 +0.0	+5.8 +0.0	+0.0	38.1	46.0	-7.9	Horiz
10	200.017M	51.6	-27.6 +0.0 +0.0	+8.8 +0.0	+0.2 +0.0	+2.6 +0.0	+0.0	35.6	43.5	-7.9	Horiz
11	180.000M	51.0	-27.7 +0.0 +0.0	+9.0 +0.0	+0.3 +0.0	+2.4 +0.0	+0.0	35.0	43.5	-8.5	Horiz
12	925.050M	33.8	-27.1 +0.0 +0.0	+24.0 +0.0	+0.6 +0.0	+6.0 +0.0	+0.0	37.3	46.0	-8.7	Vert
13	350.000M	45.4	-27.6 +0.0 +0.0	+14.5 +0.0	+0.3 +0.0	+3.5 +0.0	+0.0	36.1	46.0	-9.9	Horiz

14	354.350M	45.2	-27.6 +0.0 +0.0	+14.6 +0.0	+0.3 +0.0	+3.5 +0.0	+0.0	36.0	46.0	-10.0	Horiz
15	804.850M	33.8	-27.1 +0.0 +0.0	+22.0 +0.0	+0.6 +0.0	+5.5 +0.0	+0.0	34.8	46.0	-11.2	Horiz
16	1729.100M	52.0	+0.0 -39.0 +0.4	+0.0 +2.8	+0.0 +0.3	+0.0 +25.6	+0.0	42.1	54.0	-11.9	Horiz
17	1729.070M	51.7	+0.0 -39.0 +0.4	+0.0 +2.8	+0.0 +0.3	+0.0 +25.6	+0.0	41.8	54.0	-12.2	Vert
18	298.600M	44.5	-27.6 +0.0 +0.0	+13.2 +0.0	+0.2 +0.0	+3.2 +0.0	+0.0	33.5	46.0	-12.5	Horiz
19	630.380M	34.9	-27.2 +0.0 +0.0	+20.2 +0.0	+0.5 +0.0	+4.8 +0.0	+0.0	33.2	46.0	-12.8	Horiz
20	764.980M	32.1	-27.0 +0.0 +0.0	+22.1 +0.0	+0.5 +0.0	+5.4 +0.0	+0.0	33.1	46.0	-12.9	Horiz
21	320.750M	42.8	-27.6 +0.0 +0.0	+13.8 +0.0	+0.2 +0.0	+3.3 +0.0	+0.0	32.5	46.0	-13.5	Horiz
22	220.000M	46.8	-27.6 +0.0 +0.0	+10.4 +0.0	+0.2 +0.0	+2.7 +0.0	+0.0	32.5	46.0	-13.5	Horiz
23	608.250M	34.4	-27.3 +0.0 +0.0	+19.9 +0.0	+0.5 +0.0	+4.7 +0.0	+0.0	32.2	46.0	-13.8	Horiz
24	849.050M	28.8	-27.1 +0.0 +0.0	+23.3 +0.0	+0.6 +0.0	+5.7 +0.0	+0.0	31.3	46.0	-14.7	Vert
25	343.250M	40.7	-27.6 +0.0 +0.0	+14.3 +0.0	+0.3 +0.0	+3.5 +0.0	+0.0	31.2	46.0	-14.8	Horiz
26	652.480M	32.4	-27.1 +0.0 +0.0	+20.4 +0.0	+0.5 +0.0	+4.9 +0.0	+0.0	31.1	46.0	-14.9	Horiz
27	276.470M	42.5	-27.7 +0.0 +0.0	+12.9 +0.0	+0.3 +0.0	+3.0 +0.0	+0.0	31.0	46.0	-15.0	Horiz
28	210.150M	43.7	-27.6 +0.0 +0.0	+9.6 +0.0	+0.2 +0.0	+2.6 +0.0	+0.0	28.5	43.5	-15.0	Horiz
29	335.750M	40.6	-27.6 +0.0 +0.0	+14.1 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	30.8	46.0	-15.2	Horiz
30	377.500M	38.6	-27.7 +0.0 +0.0	+15.2 +0.0	+0.4 +0.0	+3.6 +0.0	+0.0	30.1	46.0	-15.9	Horiz

31	283.400M	41.4	-27.7 +0.0 +0.0	+13.0 +0.0 +0.0	+0.3 +0.0 +0.0	+3.1 +0.0 +0.0	+0.0	30.1	46.0	-15.9	Horiz
32	407.500M	37.6	-27.8 +0.0 +0.0	+16.0 +0.0 +0.0	+0.4 +0.0 +0.0	+3.7 +0.0 +0.0	+0.0	29.9	46.0	-16.1	Horiz
33	320.717M	40.1	-27.6 +0.0 +0.0	+13.8 +0.0 +0.0	+0.2 +0.0 +0.0	+3.3 +0.0 +0.0	+0.0	29.8	46.0	-16.2	Vert
34	254.330M	41.5	-27.7 +0.0 +0.0	+12.6 +0.0 +0.0	+0.3 +0.0 +0.0	+2.9 +0.0 +0.0	+0.0	29.6	46.0	-16.4	Horiz
35	965.030M	33.0	-27.1 +0.0 +0.0	+24.7 +0.0 +0.0	+0.7 +0.0 +0.0	+6.2 +0.0 +0.0	+0.0	37.5	54.0	-16.5	Horiz
36	764.870M	28.4	-27.0 +0.0 +0.0	+22.1 +0.0 +0.0	+0.5 +0.0 +0.0	+5.4 +0.0 +0.0	+0.0	29.4	46.0	-16.6	Vert
37	541.930M	32.0	-27.4 +0.0 +0.0	+19.5 +0.0 +0.0	+0.5 +0.0 +0.0	+4.5 +0.0 +0.0	+0.0	29.1	46.0	-16.9	Vert
38	586.130M	31.0	-27.4 +0.0 +0.0	+19.8 +0.0 +0.0	+0.5 +0.0 +0.0	+4.6 +0.0 +0.0	+0.0	28.5	46.0	-17.5	Vert
39	652.500M	29.3	-27.1 +0.0 +0.0	+20.4 +0.0 +0.0	+0.5 +0.0 +0.0	+4.9 +0.0 +0.0	+0.0	28.0	46.0	-18.0	Vert
40	630.400M	29.6	-27.2 +0.0 +0.0	+20.2 +0.0 +0.0	+0.5 +0.0 +0.0	+4.8 +0.0 +0.0	+0.0	27.9	46.0	-18.1	Vert
41	364.950M	36.3	-27.7 +0.0 +0.0	+14.9 +0.0 +0.0	+0.3 +0.0 +0.0	+3.6 +0.0 +0.0	+0.0	27.4	46.0	-18.6	Vert
42	232.230M	39.2	-27.6 +0.0 +0.0	+11.3 +0.0 +0.0	+0.2 +0.0 +0.0	+2.8 +0.0 +0.0	+0.0	25.9	46.0	-20.1	Horiz
43	342.830M	35.4	-27.6 +0.0 +0.0	+14.3 +0.0 +0.0	+0.3 +0.0 +0.0	+3.5 +0.0 +0.0	+0.0	25.9	46.0	-20.1	Vert
44	298.570M	36.1	-27.6 +0.0 +0.0	+13.2 +0.0 +0.0	+0.2 +0.0 +0.0	+3.2 +0.0 +0.0	+0.0	25.1	46.0	-20.9	Vert
45	402.130M	32.8	-27.8 +0.0 +0.0	+15.9 +0.0 +0.0	+0.4 +0.0 +0.0	+3.7 +0.0 +0.0	+0.0	25.0	46.0	-21.0	Vert
46	276.470M	36.3	-27.7 +0.0 +0.0	+12.9 +0.0 +0.0	+0.3 +0.0 +0.0	+3.0 +0.0 +0.0	+0.0	24.8	46.0	-21.2	Vert
47	394.630M	31.0	-27.8 +0.0 +0.0	+15.7 +0.0 +0.0	+0.4 +0.0 +0.0	+3.7 +0.0 +0.0	+0.0	23.0	46.0	-23.0	Vert

48	236.250M	35.7	-27.6 +0.0 +0.0	+11.6 +0.0	+0.2 +0.0	+2.8 +0.0	+0.0	22.7	46.0	-23.3	Vert
49	165.150M	34.2	-27.7 +0.0 +0.0	+9.9 +0.0	+0.3 +0.0	+2.3 +0.0	+0.0	19.0	43.5	-24.5	Horiz
50	350.870M	28.6	-27.6 +0.0 +0.0	+14.5 +0.0	+0.3 +0.0	+3.5 +0.0	+0.0	19.3	46.0	-26.7	Vert



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

Customer: **Anchor Audio, Inc.**
 Specification: **FCC 15.109 Class B**
 Work Order #: **87111**
 Test Type: **Radiated Scan**
 Equipment: **Wireless Intercom**
 Manufacturer: Anchor Audio, Inc.
 Model: WM-900
 S/N: NA

Date: 10/17/2007
 Time: 15:42:12
 Sequence#: 3
 Tested By: E. Wong

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
Horn Antenna	6246	06/29/2006	06/29/2008	00849
Microwave Pre-amp	3123A00281	07/19/2006	07/19/2008	00786
Heliacx Antenna Cable	P5565	09/18/2006	09/18/2008	P05565
2'-40GHz cable	NA	09/18/2007	09/18/2009	P2948

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless Intercom*	Anchor Audio, Inc.	WM-900	NA
Power Supply	UMEC	UP0151D-06P	CH42Q852

Support Devices:

Function	Manufacturer	Model #	S/N
Function Generator	HP	3312A	US36023090

Test Conditions / Notes:

The EUT is placed on the wooden table with 5 cm of Styrofoam surface. 1kHz, 2Vp-p audio signal is injected to channel A. Audio volume and Wireless volume are set at maximum. EUT operating range: 945 - 951MHz. Tx and Rx antenna orientation: Vertical. Tx: 951MHz, Rx: 946.2MHz, 947.8 MHz, 949.4 MHz. Frequency range of measurement = 30MHz - 10 GHz. Frequency 30 MHz - 1000 MHz RBW=120 kHz, VBW=120 kHz; 1000 MHz - 10,000 MHz RBW=1 MHz, VBW=1 MHz. 20°C, 56% relative humidity.

Transducer Legend:

T1=Preamp 8447D 060108	T2=Bilog AN01995 020208 Chase
T3=Cable #10 051609	T4=Cable #15, Site A, 010509
T5=Pre amp 1- 26GHz 071908	T6=54' Heliacx Cable 091808 P05565
T7=Hi Freq_40GHz_2ft-ANP02948-091809	T8=Horn 00849_062908
T9=Filter 1GHz HP AN02749	

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7	T8					
			T9								
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	864.600M	36.2	-27.1	+23.3	+0.5	+5.8	+0.0	38.7	46.0	-7.3	Vert
			+0.0	+0.0	+0.0	+0.0					
			+0.0								

2	3274.467M Ave	48.5	+0.0 -38.3 +0.4	+0.0 +4.2 +0.4	+0.0 +0.4 +31.0	+0.0 +0.0 +0.0	46.2	54.0	-7.8	Horiz
^	3274.467M	52.8	+0.0 -38.3 +0.4	+0.0 +4.2 +0.4	+0.0 +0.4 +31.0	+0.0 +0.0 +0.0	50.5	54.0	-3.5	Horiz
4	824.970M	36.2	-27.1 +0.0 +0.0	+22.6 +0.0 +0.0	+0.6 +0.0 +0.0	+5.6 +0.0 +0.0	37.9	46.0	-8.1	Vert
5	843.430M	35.1	-27.1 +0.0 +0.0	+23.1 +0.0 +0.0	+0.6 +0.0 +0.0	+5.7 +0.0 +0.0	37.4	46.0	-8.6	Vert
6	789.800M	34.5	-27.1 +0.0 +0.0	+22.0 +0.0 +0.0	+0.6 +0.0 +0.0	+5.5 +0.0 +0.0	35.5	46.0	-10.5	Vert
7	889.870M	32.4	-27.2 +0.0 +0.0	+23.2 +0.0 +0.0	+0.4 +0.0 +0.0	+5.9 +0.0 +0.0	34.7	46.0	-11.3	Vert
8	356.150M	43.6	-27.6 +0.0 +0.0	+14.7 +0.0 +0.0	+0.3 +0.0 +0.0	+3.5 +0.0 +0.0	34.5	46.0	-11.5	Horiz
9	475.533M	40.0	-27.6 +0.0 +0.0	+17.6 +0.0 +0.0	+0.3 +0.0 +0.0	+4.1 +0.0 +0.0	34.4	46.0	-11.6	Vert
10	356.200M	42.6	-27.6 +0.0 +0.0	+14.7 +0.0 +0.0	+0.3 +0.0 +0.0	+3.5 +0.0 +0.0	33.5	46.0	-12.5	Vert
11	1731.600M	50.6	+0.0 -39.0 +0.4	+0.0 +2.8 +0.3	+0.0 +0.3 +25.6	+0.0 +0.0 +0.0	40.7	54.0	-13.3	Vert
12	630.380M	34.4	-27.2 +0.0 +0.0	+20.2 +0.0 +0.0	+0.5 +0.0 +0.0	+4.8 +0.0 +0.0	32.7	46.0	-13.3	Horiz
13	200.030M	46.2	-27.6 +0.0 +0.0	+8.8 +0.0 +0.0	+0.2 +0.0 +0.0	+2.6 +0.0 +0.0	30.2	43.5	-13.3	Horiz
14	809.750M	31.3	-27.1 +0.0 +0.0	+22.2 +0.0 +0.0	+0.6 +0.0 +0.0	+5.5 +0.0 +0.0	32.5	46.0	-13.5	Horiz
15	1731.570M	50.3	+0.0 -39.0 +0.4	+0.0 +2.8 +0.3	+0.0 +0.3 +25.6	+0.0 +0.0 +0.0	40.4	54.0	-13.6	Horiz
16	809.820M	31.1	-27.1 +0.0 +0.0	+22.2 +0.0 +0.0	+0.6 +0.0 +0.0	+5.5 +0.0 +0.0	32.3	46.0	-13.7	Vert
17	321.080M	42.1	-27.6 +0.0 +0.0	+13.8 +0.0 +0.0	+0.2 +0.0 +0.0	+3.3 +0.0 +0.0	31.8	46.0	-14.2	Horiz
18	200.000M	45.3	-27.6 +0.0 +0.0	+8.8 +0.0 +0.0	+0.2 +0.0 +0.0	+2.6 +0.0 +0.0	29.3	43.5	-14.2	Vert

19	1130.750M	52.0	+0.0 -40.6 +0.7	+0.0 +2.3	+0.0 +0.3	+0.0 +24.8	+0.0	39.5	54.0	-14.5	Vert
20	298.580M	42.3	-27.6 +0.0 +0.0	+13.2 +0.0	+0.2 +0.0	+3.2 +0.0	+0.0	31.3	46.0	-14.7	Horiz
21	210.120M	43.9	-27.6 +0.0 +0.0	+9.6 +0.0	+0.2 +0.0	+2.6 +0.0	+0.0	28.7	43.5	-14.8	Horiz
22	320.730M	40.7	-27.6 +0.0 +0.0	+13.8 +0.0	+0.2 +0.0	+3.3 +0.0	+0.0	30.4	46.0	-15.6	Vert
23	393.700M	38.4	-27.8 +0.0 +0.0	+15.6 +0.0	+0.4 +0.0	+3.7 +0.0	+0.0	30.3	46.0	-15.7	Vert
24	1008.000M	51.0	+0.0 -41.2 +1.2	+0.0 +2.2	+0.0 +0.2	+0.0 +24.7	+0.0	38.1	54.0	-15.9	Horiz
25	219.980M	44.4	-27.6 +0.0 +0.0	+10.4 +0.0	+0.2 +0.0	+2.7 +0.0	+0.0	30.1	46.0	-15.9	Horiz
26	440.000M	36.4	-27.6 +0.0 +0.0	+16.9 +0.0	+0.4 +0.0	+3.9 +0.0	+0.0	30.0	46.0	-16.0	Vert
27	254.380M	41.7	-27.7 +0.0 +0.0	+12.6 +0.0	+0.3 +0.0	+2.9 +0.0	+0.0	29.8	46.0	-16.2	Horiz
28	769.750M	28.7	-27.0 +0.0 +0.0	+22.1 +0.0	+0.5 +0.0	+5.4 +0.0	+0.0	29.7	46.0	-16.3	Vert
29	969.630M	32.9	-27.1 +0.0 +0.0	+24.7 +0.0	+0.7 +0.0	+6.2 +0.0	+0.0	37.4	54.0	-16.6	Vert
30	1783.200M	47.0	+0.0 -39.0 +0.3	+0.0 +2.8	+0.0 +0.3	+0.0 +25.8	+0.0	37.2	54.0	-16.8	Horiz
31	1816.600M	46.3	+0.0 -38.9 +0.3	+0.0 +2.8	+0.0 +0.3	+0.0 +25.9	+0.0	36.7	54.0	-17.3	Vert
32	1151.000M	49.2	+0.0 -40.5 +0.6	+0.0 +2.2	+0.0 +0.2	+0.0 +24.8	+0.0	36.5	54.0	-17.5	Vert
33	475.550M	34.0	-27.6 +0.0 +0.0	+17.6 +0.0	+0.3 +0.0	+4.1 +0.0	+0.0	28.4	46.0	-17.6	Horiz
34	237.400M	41.4	-27.7 +0.0 +0.0	+11.6 +0.0	+0.3 +0.0	+2.8 +0.0	+0.0	28.4	46.0	-17.6	Horiz
35	1816.770M	45.7	+0.0 -38.9 +0.3	+0.0 +2.8	+0.0 +0.3	+0.0 +25.9	+0.0	36.1	54.0	-17.9	Horiz

36	1091.050M	48.5	+0.0 -40.8 +0.8	+0.0 +2.3	+0.0 +0.3	+0.0 +24.7	+0.0	35.8	54.0	-18.2	Vert
37	335.730M	37.3	-27.6 +0.0 +0.0	+14.1 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	27.5	46.0	-18.5	Vert
38	298.600M	38.5	-27.6 +0.0 +0.0	+13.2 +0.0	+0.2 +0.0	+3.2 +0.0	+0.0	27.5	46.0	-18.5	Vert
39	313.580M	37.6	-27.6 +0.0 +0.0	+13.6 +0.0	+0.2 +0.0	+3.3 +0.0	+0.0	27.1	46.0	-18.9	Horiz
40	237.480M	39.8	-27.7 +0.0 +0.0	+11.6 +0.0	+0.3 +0.0	+2.8 +0.0	+0.0	26.8	46.0	-19.2	Vert
41	210.100M	39.3	-27.6 +0.0 +0.0	+9.6 +0.0	+0.2 +0.0	+2.6 +0.0	+0.0	24.1	43.5	-19.4	Vert
42	140.030M	38.0	-27.7 +0.0 +0.0	+11.3 +0.0	+0.2 +0.0	+2.1 +0.0	+0.0	23.9	43.5	-19.6	Horiz
43	371.200M	34.4	-27.7 +0.0 +0.0	+15.1 +0.0	+0.3 +0.0	+3.6 +0.0	+0.0	25.7	46.0	-20.3	Vert
44	259.980M	32.9	-27.7 +0.0 +0.0	+12.7 +0.0	+0.3 +0.0	+2.9 +0.0	+0.0	21.1	46.0	-24.9	Vert
45	975.800M	50.3	+0.0 -41.3 +2.4	+0.0 +2.2	+0.0 +0.2	+0.0 +0.0	+0.0	13.8	54.0	-40.2	Horiz
46	991.800M	49.9	+0.0 -41.2 +1.6	+0.0 +2.2	+0.0 +0.2	+0.0 +0.0	+0.0	12.7	54.0	-41.3	Horiz



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

Customer: **Anchor Audio, Inc.**
 Specification: **FCC 15.109 Class B**
 Work Order #: **87111**
 Test Type: **Radiated Scan**
 Equipment: **Wireless Intercom**
 Manufacturer: Anchor Audio, Inc.
 Model: WM-900
 S/N: NA

Date: 10/17/2007
 Time: 16:06:20
 Sequence#: 4
 Tested By: E. Wong

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
Horn Antenna	6246	06/29/2006	06/29/2008	00849
Microwave Pre-amp	3123A00281	07/19/2006	07/19/2008	00786
Helix Antenna Cable	P5565	09/18/2006	09/18/2008	P05565
2'-40GHz cable	NA	09/18/2007	09/18/2009	P2948

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless Intercom*	Anchor Audio, Inc.	WM-900	NA
Power Supply	UMEC	UP0151D-06P	CH42Q852

Support Devices:

Function	Manufacturer	Model #	S/N
Function Generator	HP	3312A	US36023090

Test Conditions / Notes:

The EUT is placed on the wooden table with 5 cm of Styrofoam surface. A 1kHz, 2Vp-p audio signal is injected into channel A from a remote Function generator. Audio volume and Wireless volume are set at maximum. EUT operating range: 945 - 951MHz. Tx and Rx antenna orientation: Horizontal. Tx: 951MHz, Rx: 946.2MHz, 947.8 MHz, 949.4 MHz. Frequency range of measurement = 30MHz - 10 GHz. Frequency 30 MHz - 1000 MHz RBW=120 kHz, VBW=120 kHz; 1000 MHz - 10,000 MHz RBW=1 MHz, VBW=1 MHz. 20°C, 56% relative humidity.

Transducer Legend:

T1=Preamp 8447D 060108	T2=Bilog AN01995 020208 Chase
T3=Cable #10 051609	T4=Cable #15, Site A, 010509
T5=Pre amp 1- 26GHz 071908	T6=54' Heliac Cable 091808 P05565
T7=Hi Freq 40GHz 2ft-ANP02948-091809	T8=Horn 00849_062908
T9=Filter 1GHz HP AN02749	

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9	T2 T6	T3 T7	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	3272.792M	50.0	+0.0 -38.3 +0.4	+0.0 +4.2	+0.0 +0.4	+0.0 +31.0	+0.0	47.7	54.0	-6.3	Horiz
2	199.991M	52.4	-27.6 +0.0 +0.0	+8.8 +0.0	+0.2 +0.0	+2.6 +0.0	+0.0	36.4	43.5	-7.1	Horiz
3	3273.000M Ave	48.0	+0.0 -38.3 +0.4	+0.0 +4.2	+0.0 +0.4	+0.0 +31.0	+0.0	45.7	54.0	-8.3	Vert
^	3273.000M	52.7	+0.0 -38.3 +0.4	+0.0 +4.2	+0.0 +0.4	+0.0 +31.0	+0.0	50.4	54.0	-3.6	Vert
5	179.980M	51.1	-27.7 +0.0 +0.0	+9.0 +0.0	+0.3 +0.0	+2.4 +0.0	+0.0	35.1	43.5	-8.4	Horiz
6	237.730M	50.1	-27.7 +0.0 +0.0	+11.7 +0.0	+0.3 +0.0	+2.8 +0.0	+0.0	37.2	46.0	-8.8	Horiz
7	3529.200M	46.3	+0.0 -38.2 +0.4	+0.0 +4.6	+0.0 +0.4	+0.0 +31.6	+0.0	45.1	54.0	-8.9	Vert
8	219.989M	51.2	-27.6 +0.0 +0.0	+10.4 +0.0	+0.2 +0.0	+2.7 +0.0	+0.0	36.9	46.0	-9.1	Horiz
9	356.630M	44.8	-27.6 +0.0 +0.0	+14.7 +0.0	+0.3 +0.0	+3.5 +0.0	+0.0	35.7	46.0	-10.3	Horiz
10	320.720M	45.8	-27.6 +0.0 +0.0	+13.8 +0.0	+0.2 +0.0	+3.3 +0.0	+0.0	35.5	46.0	-10.5	Horiz
11	279.950M	46.4	-27.7 +0.0 +0.0	+12.9 +0.0	+0.3 +0.0	+3.0 +0.0	+0.0	34.9	46.0	-11.1	Horiz
12	1731.370M	52.2	+0.0 -39.0 +0.4	+0.0 +2.8	+0.0 +0.3	+0.0 +25.6	+0.0	42.3	54.0	-11.7	Vert
13	1731.520M	52.0	+0.0 -39.0 +0.4	+0.0 +2.8	+0.0 +0.3	+0.0 +25.6	+0.0	42.1	54.0	-11.9	Horiz

14	298.600M	45.0	-27.6 +0.0 +0.0	+13.2 +0.0	+0.2 +0.0	+3.2 +0.0	+0.0	34.0	46.0	-12.0	Horiz
15	475.570M	38.9	-27.6 +0.0 +0.0	+17.6 +0.0	+0.3 +0.0	+4.1 +0.0	+0.0	33.3	46.0	-12.7	Vert
16	771.050M	30.8	-27.0 +0.0 +0.0	+22.1 +0.0	+0.5 +0.0	+5.4 +0.0	+0.0	31.8	46.0	-14.2	Horiz
17	831.050M	29.7	-27.1 +0.0 +0.0	+22.8 +0.0	+0.6 +0.0	+5.6 +0.0	+0.0	31.6	46.0	-14.4	Horiz
18	328.220M	41.5	-27.6 +0.0 +0.0	+14.0 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	31.6	46.0	-14.4	Horiz
19	335.720M	40.4	-27.6 +0.0 +0.0	+14.1 +0.0	+0.3 +0.0	+3.4 +0.0	+0.0	30.6	46.0	-15.4	Horiz
20	320.700M	40.7	-27.6 +0.0 +0.0	+13.8 +0.0	+0.2 +0.0	+3.3 +0.0	+0.0	30.4	46.0	-15.6	Vert
21	409.130M	37.6	-27.8 +0.0 +0.0	+16.0 +0.0	+0.4 +0.0	+3.8 +0.0	+0.0	30.0	46.0	-16.0	Horiz
22	586.120M	32.5	-27.4 +0.0 +0.0	+19.8 +0.0	+0.5 +0.0	+4.6 +0.0	+0.0	30.0	46.0	-16.0	Vert
23	356.570M	39.1	-27.6 +0.0 +0.0	+14.7 +0.0	+0.3 +0.0	+3.5 +0.0	+0.0	30.0	46.0	-16.0	Vert
24	379.130M	37.8	-27.7 +0.0 +0.0	+15.3 +0.0	+0.4 +0.0	+3.6 +0.0	+0.0	29.4	46.0	-16.6	Horiz
25	254.330M	41.3	-27.7 +0.0 +0.0	+12.6 +0.0	+0.3 +0.0	+2.9 +0.0	+0.0	29.4	46.0	-16.6	Horiz
26	475.520M	34.7	-27.6 +0.0 +0.0	+17.6 +0.0	+0.3 +0.0	+4.1 +0.0	+0.0	29.1	46.0	-16.9	Horiz
27	260.030M	40.9	-27.7 +0.0 +0.0	+12.7 +0.0	+0.3 +0.0	+2.9 +0.0	+0.0	29.1	46.0	-16.9	Horiz
28	1151.070M	48.8	+0.0 -40.5 +0.6	+0.0 +2.2	+0.0 +0.2	+0.0 +24.8	+0.0	36.1	54.0	-17.9	Horiz
29	541.930M	30.3	-27.4 +0.0 +0.0	+19.5 +0.0	+0.5 +0.0	+4.5 +0.0	+0.0	27.4	46.0	-18.6	Vert
30	298.580M	38.2	-27.6 +0.0 +0.0	+13.2 +0.0	+0.2 +0.0	+3.2 +0.0	+0.0	27.2	46.0	-18.8	Vert

31	1131.570M	47.5	+0.0 -40.6 +0.7	+0.0 +2.3	+0.0 +0.3	+0.0 +24.8	+0.0	35.0	54.0	-19.0	Horiz
32	453.370M	32.0	-27.6 +0.0 +0.0	+17.2 +0.0	+0.4 +0.0	+4.0 +0.0	+0.0	26.0	46.0	-20.0	Vert
33	356.620M	35.1	-27.6 +0.0 +0.0	+14.7 +0.0	+0.3 +0.0	+3.5 +0.0	+0.0	26.0	46.0	-20.0	Vert
34	219.970M	39.5	-27.6 +0.0 +0.0	+10.4 +0.0	+0.2 +0.0	+2.7 +0.0	+0.0	25.2	46.0	-20.8	Vert
35	401.630M	32.5	-27.8 +0.0 +0.0	+15.8 +0.0	+0.4 +0.0	+3.7 +0.0	+0.0	24.6	46.0	-21.4	Horiz
36	237.750M	36.9	-27.7 +0.0 +0.0	+11.7 +0.0	+0.3 +0.0	+2.8 +0.0	+0.0	24.0	46.0	-22.0	Vert
37	409.120M	29.7	-27.8 +0.0 +0.0	+16.0 +0.0	+0.4 +0.0	+3.8 +0.0	+0.0	22.1	46.0	-23.9	Vert
38	157.250M	33.8	-27.7 +0.0 +0.0	+10.4 +0.0	+0.2 +0.0	+2.3 +0.0	+0.0	19.0	43.5	-24.5	Horiz
39	245.720M	32.6	-27.7 +0.0 +0.0	+12.2 +0.0	+0.3 +0.0	+2.9 +0.0	+0.0	20.3	46.0	-25.7	Vert
40	371.620M	28.8	-27.7 +0.0 +0.0	+15.1 +0.0	+0.3 +0.0	+3.6 +0.0	+0.0	20.1	46.0	-25.9	Vert

FCC 2.1033(c)(14)/2.1047(a) - MODULATION CHARACTERISTICS - AUDIO FREQUENCY RESPONSE

Test Equipment

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Oscilloscope	02847	Tektronix	TDS 520B	B020532	031207	131209
Function Generator	00838	HP	33120A	US36023090	030107	030109
Analyzer, Modulation	02072	HP	8901A	2751A05181	110906	110908

2.1047(a) Audio Frequency Response Setup

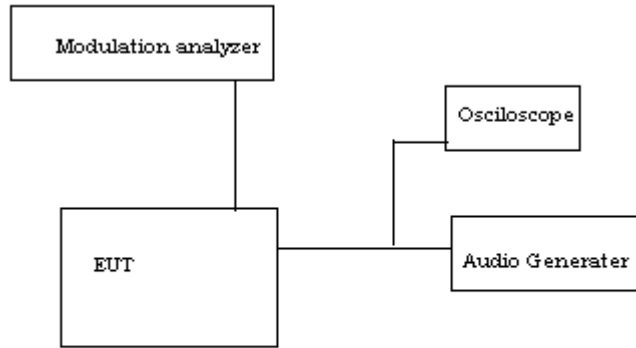
The test setup is in accordance with TIA/EIA 603 2.2.6.2.2 Constant Input Method. The EUT is functioning normally, wired volume and wireless volume are set to maximum. Rated system deviation is 60 kHz. Lowest achievable frequency deviation is 16kHz. (26% 0f the rated system deviation).

The Audio Frequency response curve is plotted from 100 Hz to 5000Hz.

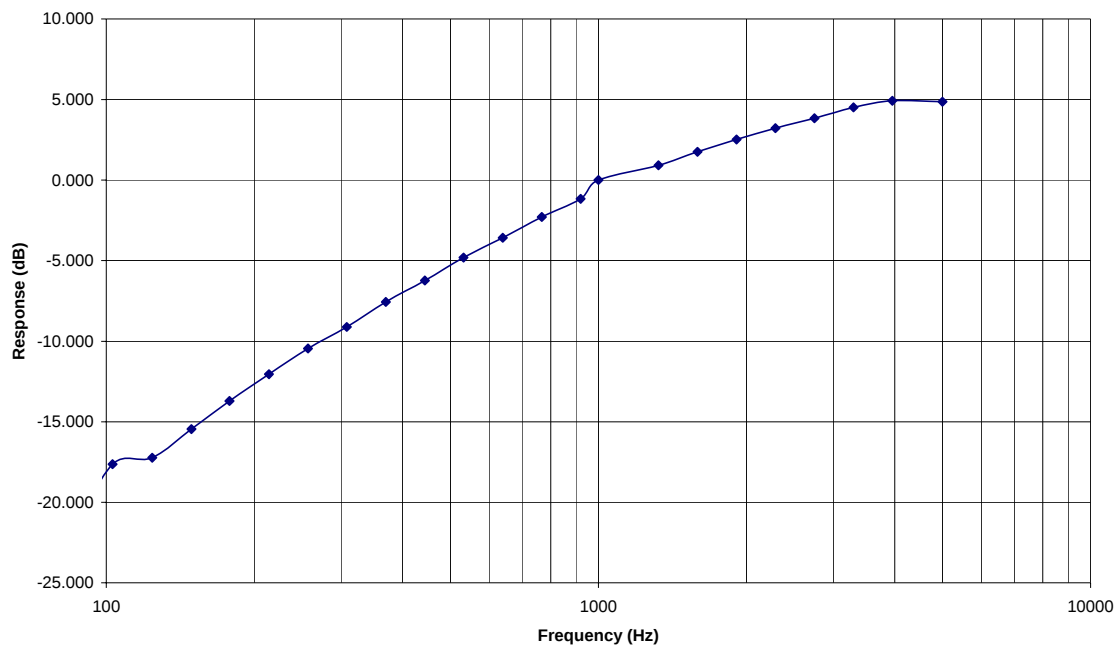
Test Setup Photos



Audio Frequency Response Setup Diagram



2.1047(a) Audio Frequency Response



FCC 2.1033(c)(14)/2.1047(b) MODULATION CHARACTERISTICS– Modulation Limiting Response

Test Equipment

Equipment	Asset #	Manufacturer	Model #	Serial #	Cal Date	Cal Due
Oscilloscope	02847	Tektronix	TDS 520B	B020532	031207	131209
Function Generator	00838	HP	33120A	US36023090	030107	030109
Analyzer, Modulation	02072	HP	8901A	2751A05181	110906	110908

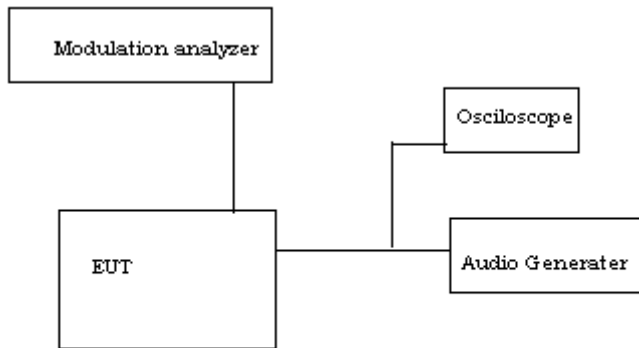
2.1047(b) Modulation Limiting Setup

The test setup is in accordance with TIA/EIA 603. The EUT is functioning normally. . . , wired volume and wireless volume are set to maximum. Rated system deviation is 60 kHz A family of curves is plotted as a function of input modulation relative to 60% of the manufacturer's declared maximum system deviation. The frequencies chosen are 500Hz, 1kHz, 2kHz and 3kHz.

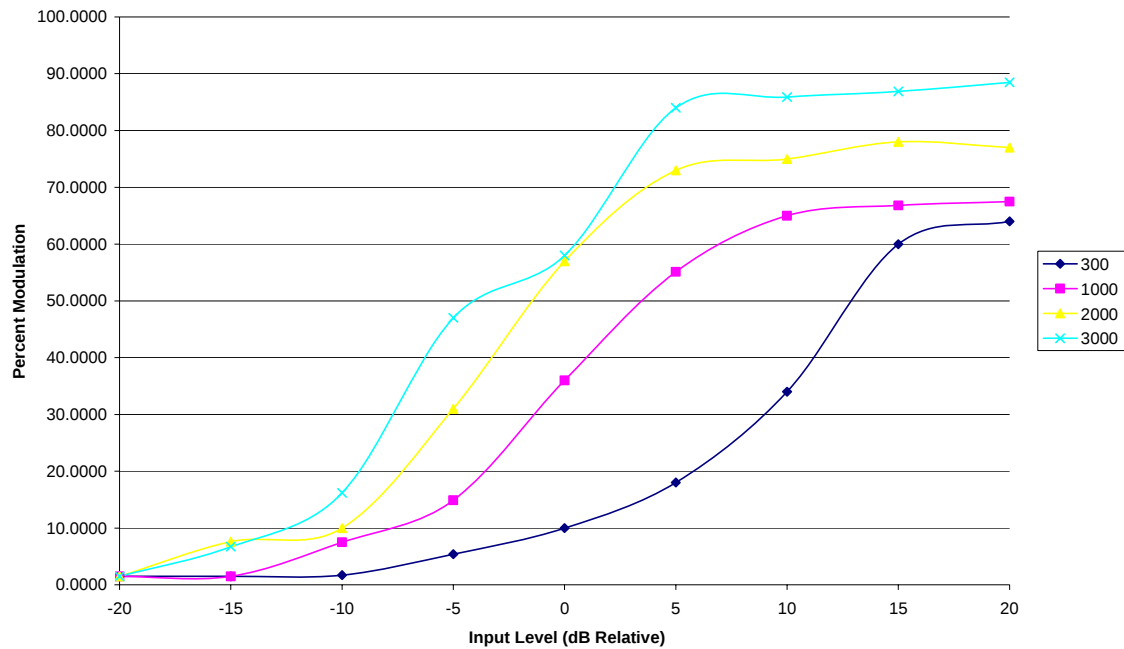
Test Setup Photos



Modulation Limiting Setup



Modulation Limiting



FCC 2.1033(c)(14)/2.1046/74.861(d)(1) - RF POWER OUTPUT

Test Equipment

Equipment	Asset #	Manufacturer	Model	Serial #	Cal Date	Cal Due
RF Power meter	02778	HP	EPM-441A	GB37170458	012706	012708
Power Sensor	02777	HP	E4412A	MY41499662	012706	012708
Programmable Power Source	01695/ 01696	Pacific Power	345AMX / UPC32	250 / 245	051507	051509
DC Power Source	1438	Topward	6306	988614	112206	112208

Test Setup Photos



Test Data

2.1046 RF Output power
74.861 Technical requirements.

(d) For low power auxiliary stations operating in the bands other than those allocated for TV broadcasting, the following technical requirements are imposed:

(1) The maximum transmitter power which will be authorized is 1 watt. Licensees may accept the manufacturer's power rating; however, it is the licensee's responsibility to observe specified power limits.

The EUT is placed on the wooden table. A 1kHz, 2Vp-p audio signal is injected into channel A from a remote Function generator. Audio volume and Wireless volume are set at maximum. RF output power evaluated at the antenna port.

Measured RF Output power

Frequency	110 Vac	93.5 Vac (-15%)	126.5Vac (+15%)
945MHz	0.00558W	0.00558W	0.00558W
951MHz	0.00536W	0.00536W	0.00536W

FCC 2.1033(c)(14)/2.1049(i)/74.861(d)(3)- OCCUPIED BANDWIDTH

Test Equipment

Equipment	Asset #	Manufacturer	Model	Serial #	Cal Date	Cal Due
Spectrum Analyzer	02672	Agilent	E4446A	US44300438	010307	010309
Hi-Freq 3' 40 GHz cable	02945	Astrolab	NA	NA	091807	091809

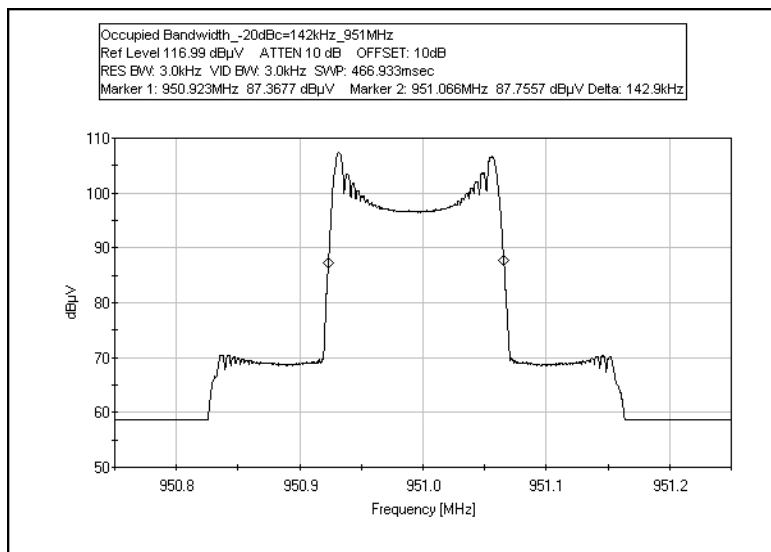
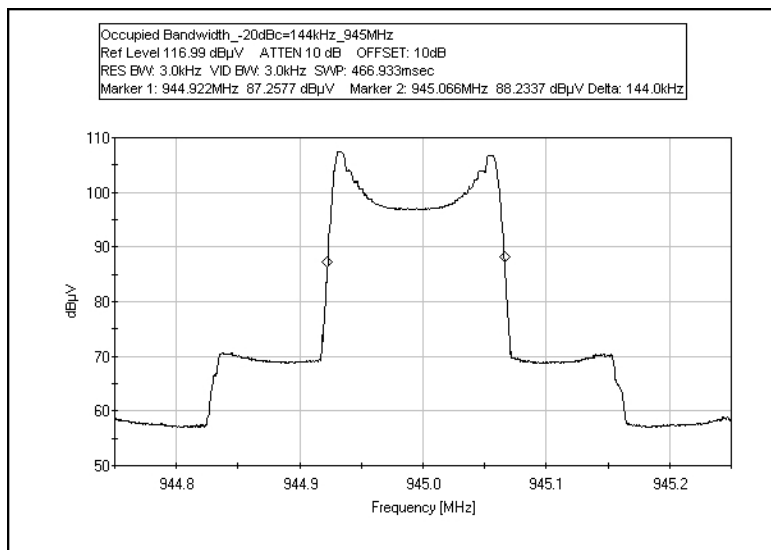
Test Conditions

The EUT is placed on the wooden table. A 1kHz, 2Vp-p audio signal is injected into channel A from a remote Function generator. Audio volume and Wireless volume are set at maximum. Occupied bandwidth evaluated at the antenna port.

Test Setup Photos



Test Plots



FCC 74.861(d)(3) BANDEDGE

Test Equipment

Equipment	Asset #	Manufacturer	Model	Serial #	Cal Date	Cal Due
Spectrum Analyzer	02672	Agilent	E4446A	US44300438	010307	010309
Hi-Freq 3' 40 GHz cable	02945	Astrolab	NA	NA	091807	091809

Test Conditions

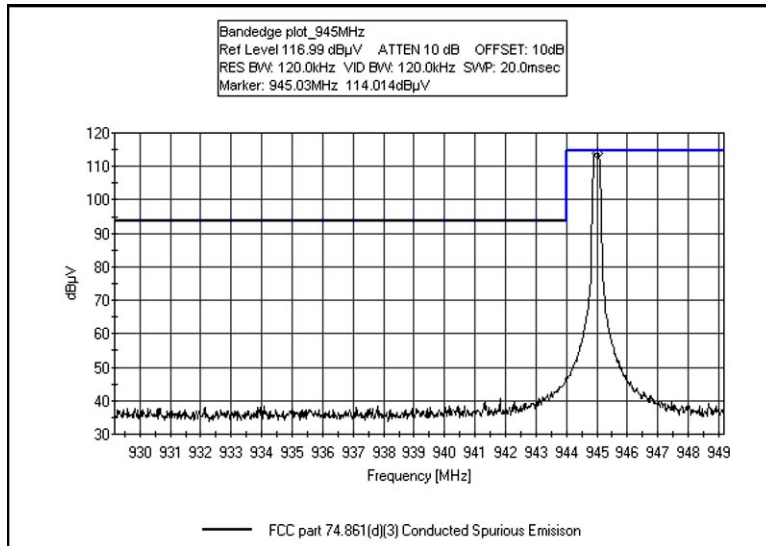
The EUT is placed on the wooden table. A 1kHz, 2Vp-p audio signal is injected into channel A from a remote Function generator. Audio volume and Wireless volume are set at maximum. Occupied bandwidth evaluated at the antenna port.

Test Setup Photos

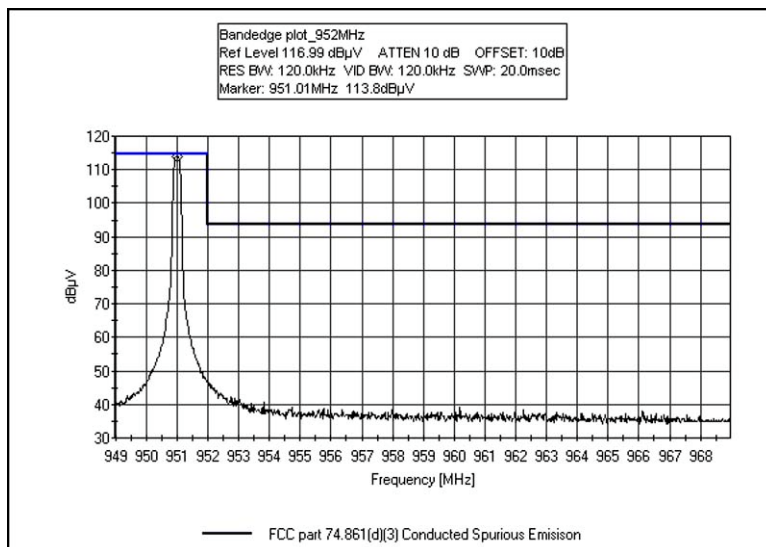


Test Plots

FCC 74.861(d)(3) BANDEDGE 945 MHz



FCC 74.861(d)(3) BANDEDGE 952 MHz



**FCC 2.1033(c)(14)/2.1051/74.861(d)(3) - SPURIOUS EMISSIONS AT ANTENNA
TERMINAL**

Test Setup Photos



Test Data

Limit line for Spurious Conducted Emission

$$\text{Required Attenuation} = 43 + 10 \log P \text{ dB}$$

$$\text{Limit line (dBuV)} = V_{\text{dBuV}} - \text{Attenuation}$$

$$\begin{aligned} V_{\text{dBuV}} &= 20 \log \frac{V}{1 \times 10^{-6}} \\ &= 20 (\log V - \log 1 \times 10^{-6}) \\ &= 20 \log V - 20 \log 1 \times 10^{-6} \\ &= 20 \log V - 20 (-6) \\ &= 20 \log V + 120 \end{aligned}$$

$$\begin{aligned} \text{Attenuation} &= 43 + 10 \log P \\ &= 43 + 10 \log \frac{V^2}{R} \\ &= 43 + 10 (\log V^2 - \log R) \\ &= 43 + 10 (2 \log V - \log R) \\ &= 43 + 20 \log V - 10 \log R \end{aligned}$$

$$\begin{aligned} \text{Limit line} &= V_{\text{dBuV}} - \text{Attenuation} \\ &= 20 \log V + 120 - (43 + 20 \log V - 10 \log R) \\ &= 20 \log V + 120 - 43 - 20 \log V + 10 \log R \\ &= 20 \log V + 120 - 43 - 20 \log V + 10 \log R \\ &= 120 - 43 + 10 \log 50 \quad \text{Note : } R = 50 \Omega \\ &= 120 - 43 + 16.897 \\ &= 94 \text{ dBuV at any power level} \end{aligned}$$



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

Customer: **Anchor Audio, Inc.**
 Specification: **FCC part 74.861(d)(3) Conducted Spurious Emission**
 Work Order #: **87111** Date: 10/18/2007
 Test Type: **Conducted Emissions** Time: 11:42:45
 Equipment: **Wireless Intercom** Sequence#: 10
 Manufacturer: Anchor Audio, Inc. Tested By: E. Wong
 Model: WM-900 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
1.0 GHz HPF	1	03/07/2006	03/07/2008	02749
3'-40GHz cable	NA	09/18/2007	09/18/2009	P2945

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless Intercom*	Anchor Audio, Inc.	WM-900	NA
Power Supply	UMEC	UP0151D-06P	CH42Q852

Support Devices:

Function	Manufacturer	Model #	S/N
Function Generator	HP	3312A	US36023090

Test Conditions / Notes:

The EUT is placed on the wooden table . A 1kHz, 2Vp-p audio signal is injected into channel A from a remote Function generator. Audio volume and Wireless volume are set at maximum. EUT operating range: 945 -951MHz. Emission profile evaluated at the TX antenna port. Tx: 945MHz, Rx: 946.6MHz, 948.2MHz, 949.8MHz. Frequency range of measurement = 9 kHz - 10 GHz. Frequency 9 kHz - 150 kHz RBW=200 Hz, VBW=200 Hz; 150 kHz - 30 MHz RBW=9 kHz, VBW=9 kHz; 30 MHz - 1000 MHz RBW=120 kHz, VBW=120 kHz; 1000 MHz - 10,000 MHz RBW=1 MHz, VBW=1 MHz. 20°C, 56% relative humidity.

Transducer Legend:

T1=Filter 1GHz HP AN02749	T2=Hi Freq 40GHz 3ft CAB-ANP02945-091809
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Measurement Data: Reading listed by margin. Test Lead: Antenna Terminal

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	Dist dB	Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	5669.640M	42.6	+0.3	+0.8		+0.0	43.7	94.0	-50.3	Anten
2	1889.888M	35.5	+0.3	+0.5		+0.0	36.3	94.0	-57.7	Anten
3	2834.826M	31.0	+0.4	+0.6		+0.0	32.0	94.0	-62.0	Anten



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

Customer: **Anchor Audio, Inc.**
 Specification: **FCC part 74.861(d)(3) Conducted Spurious Emission**
 Work Order #: **87111** Date: 10/18/2007
 Test Type: **Conducted Emissions** Time: 11:46:00
 Equipment: **Wireless Intercom** Sequence#: 11
 Manufacturer: Anchor Audio, Inc. Tested By: E. Wong
 Model: WM-900 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
1.0 GHz HPF	1	03/07/2006	03/07/2008	02749
3'-40GHz cable	NA	09/18/2007	09/18/2009	P2945

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless Intercom*	Anchor Audio, Inc.	WM-900	NA
Power Supply	UMEC	UP0151D-06P	CH42Q852

Support Devices:

Function	Manufacturer	Model #	S/N
Function Generator	HP	3312A	US36023090

Test Conditions / Notes:

The EUT is placed on the wooden table . A 1kHz, 2Vp-p audio signal is injected into channel A from a remote Function generator. Audio volume and Wireless volume are set at maximum. EUT operating range : 945 - 951MHz
 Emission profile evaluated at the TX antenna port. Tx: 951MHz, Rx: 946.2MHz, 947.8 MHz, 949.4 MHz.
 Frequency range of measurement = 9 kHz - 10 GHz. Frequency 9 kHz - 150 kHz RBW=200 Hz, VBW=200 Hz;
 150 kHz - 30 MHz RBW=9 kHz, VBW=9 kHz; 30 MHz - 1000 MHz RBW=120 kHz, VBW=120 kHz; 1000 MHz - 10,000 MHz RBW=1 MHz, VBW=1 MHz. 20°C, 56% relative humidity.

Transducer Legend:

T1=Filter 1GHz HP AN02749	T2=Hi Freq 40GHz 3ft CAB-ANP02945-091809
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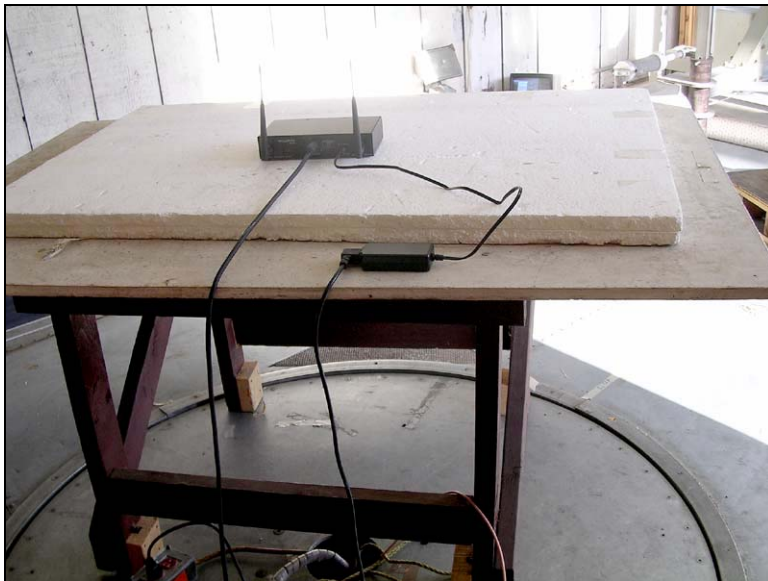
Measurement Data: Reading listed by margin. Test Lead: Antenna Terminal

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	dB	dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	5706.263M	43.4	+0.3	+0.8			+0.0	44.5	94.0	-49.5	Anten
2	1901.997M	36.3	+0.3	+0.5			+0.0	37.1	94.0	-56.9	Anten
3	2852.995M	33.2	+0.3	+0.6			+0.0	34.1	94.0	-59.9	Anten

FCC 2.1033(c)(14)/2.1053/74.861(d)(3) - FIELD STRENGTH OF SPURIOUS RADIATION

Test Setup Photos





Test Data

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

Customer: **Anchor Audio, Inc.**
 Specification: **FCC Part 74.861(d)(3) Radiated Spurious Emission**
 Work Order #: **87111** Date: 10/17/2007
 Test Type: **Radiated Scan** Time: 14:50:27
 Equipment: **Wireless Intercom** Sequence#: 1
 Manufacturer: Anchor Audio, Inc. Tested By: E. Wong
 Model: WM-900
 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
Horn Antenna	6246	06/29/2006	06/29/2008	00849
Microwave Pre-amp	3123A00281	07/19/2006	07/19/2008	00786
Heliast Antenna Cable	P5565	09/18/2006	09/18/2008	P05565
Loop Antenna	2014	06/14/2006	06/14/2008	00314
2'-40GHz cable	NA	09/18/2007	09/18/2009	P2948

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless Intercom*	Anchor Audio, Inc.	WM-900	NA
Power Supply	UMEC	UP0151D-06P	CH42Q852

Support Devices:

Function	Manufacturer	Model #	S/N
Function Generator	HP	3312A	US36023090

Test Conditions / Notes:

The EUT is placed on the wooden table with 5 cm of Styrofoam surface. A 1kHz, 2Vp-p audio signal is injected into channel A from a remote Function generator. Audio volume and Wireless volume are set at maximum. EUT operating range: 945 - 951MHz. Tx and Rx antenna orientation: Vertical and Horizontal. Tx: 945MHz, Rx: 946.6MHz, 948.2MHz, 949.8MHz. Frequency range of measurement = 9 kHz- 10 GHz. Frequency 9 kHz - 150 kHz RBW=200 Hz, VBW=200 Hz; 150 kHz- 30 MHz RBW=9 kHz, VBW=9 kHz; 30 MHz- 1000 MHz RBW=120 kHz, VBW=120 kHz; 1000 MHz-10,000 MHz RBW=1 MHz, VBW=1 MHz. 20DegC, 56% relative humidity.

Operating Frequency: 945 MHz - 951 MHz

Channels: Tx: 945MHz, Rx: 946.6MHz, 948.2MHz, 949.8MHz.

Highest Measured Output Power: 7.47 ERP(dBm)= 0.00558 ERP(Watts)

Distance: 3 meters

Limit: $43+10\log(P)$ 20.47 dBc

Freq. (MHz)	Reference Level (dBm)	Antenna Polarity (H/V)	dBc
924.83	-60.9	Horiz	68.37
825.03	-61.3	Vert	68.77
236.25	-61.3	Horiz	68.77
965.00	-61.4	Horiz	68.87
763.12	-62.7	Horiz	70.17
792.15	-63.5	Vert	70.97
200.00	-63.7	Horiz	71.17
804.92	-63.7	Vert	71.17
343.57	-63.8	Horiz	71.27
804.97	-64.5	Horiz	71.97
328.57	-64.6	Horiz	72.07
366.07	-65	Horiz	72.47
319.98	-65.4	Vert	72.87
838.58	-65.4	Horiz	72.87
357.48	-66.3	Vert	73.77
210.13	-66.4	Vert	73.87
313.57	-66.5	Horiz	73.97
541.88	-66.8	Vert	74.27
409.98	-66.8	Vert	74.27
236.25	-67.1	Vert	74.57
298.58	-68.3	Vert	75.77
411.07	-70	Horiz	77.47
219.97	-70.5	Vert	77.97
334.98	-72.7	Vert	80.17
165.00	-76.8	Horiz	84.27
2,834.92	-43	Horiz	50.47
2,834.74	-45.5	Vert	52.97
1,890.02	-45.9	Horiz	53.37
3,273.91	-45.9	Vert	53.37
3,273.91	-43.5	Vert	50.97
3,272.83	-48.1	Horiz	55.57
1,889.92	-48.2	Vert	55.67
1,729.10	-53.2	Horiz	60.67

1,729.07	-53.5	Vert	60.97
924.97	-55	Horiz	62.47
924.97	-52.9	Horiz	60.37
864.62	-55.3	Vert	62.77
925.07	-56.6	Vert	64.07
236.27	-56.8	Horiz	64.27
864.60	-57.2	Horiz	64.67
965.03	-57.8	Horiz	65.27
925.05	-58	Vert	65.47
350.00	-59.2	Horiz	66.67
354.35	-59.3	Horiz	66.77
200.02	-59.7	Horiz	67.17
180.00	-60.3	Horiz	67.77
804.85	-60.5	Horiz	67.97
298.60	-61.8	Horiz	69.27
630.38	-62.1	Horiz	69.57
764.98	-62.2	Horiz	69.67
220.00	-62.8	Horiz	70.27
320.75	-62.8	Horiz	70.27
608.25	-63.1	Horiz	70.57
849.05	-64	Vert	71.47
343.25	-64.1	Horiz	71.57
652.48	-64.2	Horiz	71.67
276.47	-64.3	Horiz	71.77
335.75	-64.5	Horiz	71.97
283.40	-65.2	Horiz	72.67
377.50	-65.2	Horiz	72.67
407.50	-65.4	Horiz	72.87
320.72	-65.5	Vert	72.97
254.33	-65.7	Horiz	73.17
764.87	-65.9	Vert	73.37
541.93	-66.2	Vert	73.67
586.13	-66.8	Vert	74.27
210.15	-66.8	Horiz	74.27
652.50	-67.3	Vert	74.77
630.40	-67.4	Vert	74.87
364.95	-67.9	Vert	75.37
232.23	-69.4	Horiz	76.87
342.83	-69.4	Vert	76.87
298.57	-70.2	Vert	77.67
402.13	-70.3	Vert	77.77
276.47	-70.5	Vert	77.97
394.63	-72.3	Vert	79.77
236.25	-72.6	Vert	80.07
350.87	-76	Vert	83.47

165.15	-76.3	Horiz	83.77
2,852.67	-14.8	Vert	22.27
1,901.98	-39.8	Vert	47.27
3,274.47	-49.1	Horiz	56.57
3,274.47	-44.8	Horiz	52.27
1,901.97	-52.2	Horiz	59.67
1,731.60	-54.6	Vert	62.07
1,731.57	-54.9	Horiz	62.37
1,130.75	-55.8	Vert	63.27
2,852.20	-56.3	Horiz	63.77
864.60	-56.6	Vert	64.07
1,008.00	-57.2	Horiz	64.67
824.97	-57.4	Vert	64.87
843.43	-57.9	Vert	65.37
969.63	-57.9	Vert	65.37
1,783.20	-58.1	Horiz	65.57
1,816.60	-58.6	Vert	66.07
1,151.00	-58.8	Vert	66.27
1,816.77	-59.2	Horiz	66.67
1,091.05	-59.5	Vert	66.97
789.80	-59.8	Vert	67.27
889.87	-60.6	Vert	68.07
356.15	-60.8	Horiz	68.27
475.53	-60.9	Vert	68.37
356.20	-61.8	Vert	69.27
630.38	-62.6	Horiz	70.07
809.75	-62.8	Horiz	70.27
809.82	-63	Vert	70.47
321.08	-63.5	Horiz	70.97
298.58	-64	Horiz	71.47
320.73	-64.9	Vert	72.37
393.70	-65	Vert	72.47
200.03	-65.1	Horiz	72.57
219.98	-65.2	Horiz	72.67
440.00	-65.3	Vert	72.77
254.38	-65.5	Horiz	72.97
769.75	-65.6	Vert	73.07
200.00	-66	Vert	73.47
210.12	-66.6	Horiz	74.07
237.40	-66.9	Horiz	74.37
475.55	-66.9	Horiz	74.37
298.60	-67.8	Vert	75.27

335.73	-67.8	Vert	75.27
313.58	-68.2	Horiz	75.67
237.48	-68.5	Vert	75.97
371.20	-69.6	Vert	77.07
210.10	-71.2	Vert	78.67
140.03	-71.4	Horiz	78.87
259.98	-74.2	Vert	81.67
975.80	-81.5	Horiz	88.97
991.80	-82.6	Horiz	90.07
2,852.89	-37	Horiz	44.47
1,902.06	-42.6	Horiz	50.07
2,853.00	-45.8	Vert	53.27
1,902.08	-47.2	Vert	54.67
3,272.79	-47.6	Horiz	55.07
3,273.00	-49.6	Vert	57.07
3,273.00	-44.9	Vert	52.37
3,529.20	-50.2	Vert	57.67
1,731.37	-53	Vert	60.47
1,731.52	-53.2	Horiz	60.67
237.73	-58.1	Horiz	65.57
219.99	-58.4	Horiz	65.87
199.99	-58.9	Horiz	66.37
1,151.07	-59.2	Horiz	66.67
356.63	-59.6	Horiz	67.07
320.72	-59.8	Horiz	67.27
179.98	-60.2	Horiz	67.67
1,131.57	-60.3	Horiz	67.77
279.95	-60.4	Horiz	67.87
298.60	-61.3	Horiz	68.77
475.57	-62	Vert	69.47
771.05	-63.5	Horiz	70.97
831.05	-63.7	Horiz	71.17
328.22	-63.7	Horiz	71.17
335.72	-64.7	Horiz	72.17
320.70	-64.9	Vert	72.37
409.13	-65.3	Horiz	72.77
356.57	-65.3	Vert	72.77
586.12	-65.3	Vert	72.77
254.33	-65.9	Horiz	73.37
379.13	-65.9	Horiz	73.37
260.03	-66.2	Horiz	73.67

475.52	-66.2	Horiz	73.67
541.93	-67.9	Vert	75.37
298.58	-68.1	Vert	75.57
356.62	-69.3	Vert	76.77
453.37	-69.3	Vert	76.77
219.97	-70.1	Vert	77.57
401.63	-70.7	Horiz	78.17
237.75	-71.3	Vert	78.77
409.12	-73.2	Vert	80.67
245.72	-75	Vert	82.47
371.62	-75.2	Vert	82.67
157.25	-76.3	Horiz	83.77

FCC 2.1033(c)(14)/2.1055(d)(1) - FREQUENCY STABILITY & FCC 2.1055(d)(2) – VOLTAGE VARIATION

Test Equipment

Equipment	Asset #	Manufacturer	Model	Serial #	Cal Date	Cal Due
Temperature Chamber	01878	Thermaltron	S1.2	NA	060106	060108
Temperature Data logger	01620	HP	34970A	US70131892	052206	052208
20 Ch Thermocouple module	01849	HP	34901A	US37603966	052206	052208

Test Conditions: The EUT is placed in the temperature chamber. RF signal is monitored from the antenna port. A spectrum analyzer is employed to measured the frequency stability of the EUT.

Test Setup Photos



Test Data Sheets

Customer: AnchorAudio
WO#: 87111
Date: 19-Oct-07
Test Engineer: E. Wong

Device Model #: WM 900
Operating Voltage: 110
Frequency Limit: 0.05 %

Temperature Variations

Channel Frequency:		Channel 1 (MHz)	Dev. (MHz)	Channel 2 (MHz)	Dev. (MHz)
Temp (C) Voltage		944.921000		951.0691	
-30	110	944.91120	0.00980	951.06440	0.00470
-20	110	944.918600	0.00240	951.067100	0.00200
-10	110	944.921300	0.00030	951.070700	0.00160
0	110	944.923000	0.00200	951.070400	0.00130
10	110	944.922700	0.00170	951.070600	0.00150
20	110	944.921000	0.00000	951.069100	0.00000
30	110	944.920100	0.00090	951.068100	0.00100
40	110	944.918600	0.00240	951.066900	0.00220
50	110	944.916900	0.00410	951.067500	0.00160

Voltage Variations ($\pm 15\%$)

Temp (C)	Voltage	Channel 1 (MHz)	Dev. (MHz)	Channel 2 (MHz)	Dev. (MHz)
20	93.5	944.92130	0.00030	951.06870	0.00040
20	110.0	944.92100	0.00000	951.06910	0.00000
20	126.5	944.92160	0.00060	951.06870	0.00040

Max Deviation (MHz) 0.00980
Max Deviation (%) 0.00104

PASS

0.00470

0.00049

PASS

Note: PASS, the EUT operates within 944- 952 MHz band.