

Anchor Audio, Inc.

TEST REPORT FOR

Wireless Pier to Pier Intercom, ProLink

Tested To The Following Standards:

FCC Part 15 Subpart C Sections: 15.209 and 15.247

Report No.: 90319-7

Date of issue: March 16, 2010



TESTING
CERT #803.01, 803.02,
803.05, 803.06

This test report bears the accreditation symbol indicating that the testing performed herein meets the test and reporting requirements of ISO/IEC 17025 under the applicable scope of EMC testing for CKC Laboratories, Inc.

We strive to create long-term, trust based relationships by providing sound, adaptive, customer first testing services. We embrace each of our customers' unique EMC challenges, not as an interruption to set processes, but rather as the reason we are in business.

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ADMINISTRATIVE INFORMATION

Test Report Information

REPORT PREPARED FOR:

Anchor Audio, Inc.
2565 West 237th ST
Torrance, CA 90505

Representative: Rohini Minapalli
Customer Reference Number: 0012528

DATE OF EQUIPMENT RECEIPT:**DATE(S) OF TESTING:****REPORT PREPARED BY:**

Dianne Dudley
CKC Laboratories, Inc.
5046 Sierra Pines Drive
Mariposa, CA 95338

Project Number: 90319

January 25, 2010

January 25 - March 8, 2010

Report Authorization

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the sample equipment tested in the agreed upon operational mode(s) and configuration(s) as identified herein. Compliance assessment remains the client's responsibility. This report may not be used to claim product endorsement by A2LA or any government agencies. This test report has been authorized for release under quality control from CKC Laboratories, Inc.



Steve Behm
Director of Quality Assurance & Engineering Services
CKC Laboratories, Inc.

Test Facility Information



Our laboratories are configured to effectively test a wide variety of product types. CKC utilizes first class test equipment, anechoic chambers, data acquisition and information services to create accurate, repeatable and affordable test results.

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

Site Registration & Accreditation Information

Location	Japan	Canada	FCC
Brea A	R-301, C-314 & T-1572	3082D-1	90473

SUMMARY OF RESULTS

Standard / Specification: FCC Part 15 Subpart C

Description	Test Procedure/Method	Results
Bandwidth -6dB	FCC Part 15 Subpart C Section 15.247(a)(2)	Pass
RF Power Output	FCC Part 15 Subpart C Section 15.247(b)(2)	Pass
Conducted Spurious Emissions	FCC Part 15 Subpart C Section 15.247(d)	Pass
Radiated Spurious Emissions	FCC Part 15 Subpart C Section 15.247 (d) 15.209/15.205	Pass
Power Spectral Density	FCC Part 15 Subpart C Section 15.247(e)	Pass
Band Edge	ITU-R 55/1	Pass

Conditions During Testing

This list is a summary of the conditions noted for or modifications made to the equipment during testing.

Summary of Conditions
None

EQUIPMENT UNDER TEST (EUT)

EQUIPMENT UNDER TEST

Wireless Pier to Pier Intercom

Manuf: Anchor Audio, Inc.

Model: ProLink

Serial: NA

PERIPHERAL DEVICES

The EUT was not tested with peripheral devices.

FCC PART 15 SUBPART C

This report contains EMC emissions test results under United States Federal Communications Commission (FCC) 47 CRF 15C requirements for Unlicensed Radio Frequency Devices, Subpart C - Intentional Radiators.

Temperature And Humidity During Testing

The temperature during testing was within +15°C and + 35°C.

The relative humidity was between 20% and 75%.

15.31(e) Voltage Variations

Fresh batteries were installed.

15.31(m) Number Of Channels

This device operates on two channels.

15.33(a) Frequency Ranges Tested

15.205/15.209/15.247 Radiated Emissions: 9 kHz – 10GHz

15.203 Antenna Requirements

The antenna is removable, reversed SMA connector.

EUT Operating Frequency

The EUT was operating at 903.5 - 926.0MHz

15.247(a)(2) -6dB Bandwidth

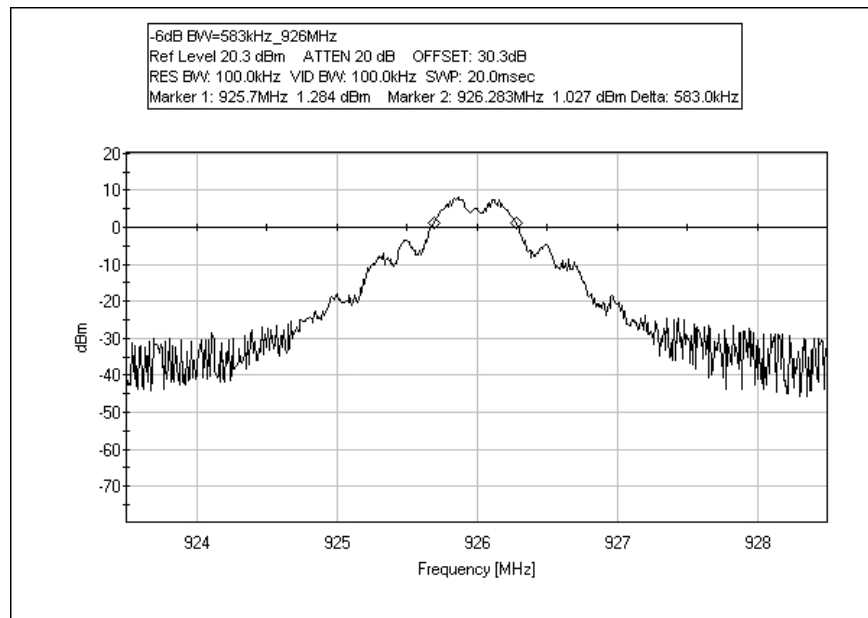
Test Set up: The EUT is placed on the test bench. The device is set in continuous transmit and receive mode, the -6dB Bandwidth is measured at the transmit antenna port.

Engineer Name: E. Wong

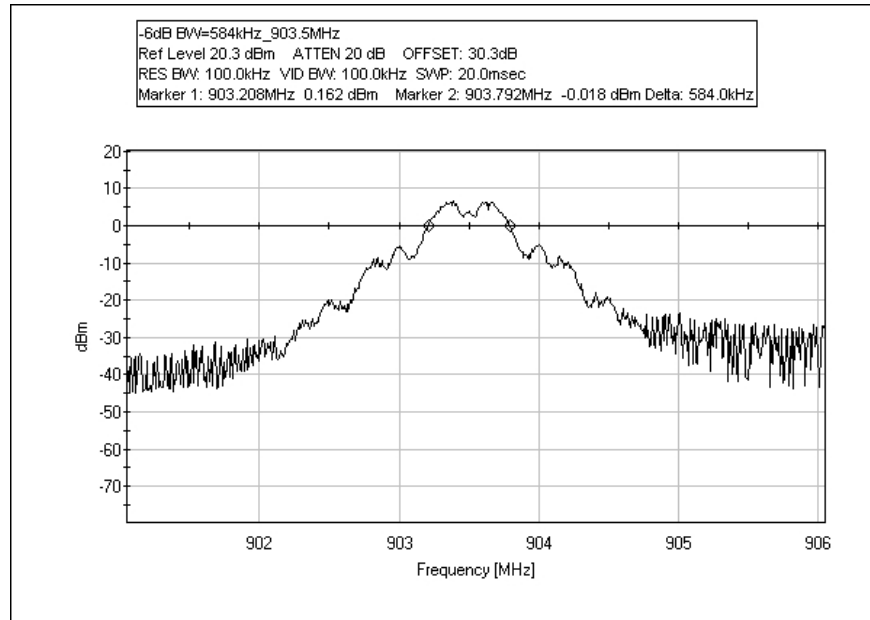
Test Equipment				
Equipment	Serial	Cal Date	Cal Due	Asset
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
3'-40GHz cable	NA	09/14/2009	09/14/2011	P02946

Test Plots

-6dB Bandwidth = 583kHz_926MHz



-6dB Bandwidth = 584kHz_903.5MHz



Test Setup Photos



15.247(b)(2) - RF Power Output

Test Set up: The EUT is placed on the test bench. The device is set in continuous transmit and receive mode, the RF output power is measure at the transmit antenna port in accordance with KDB Publication No. 558074.

Engineer Name: E. Wong

Test Equipment				
Equipment	Serial	Cal Date	Cal Due	Asset
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
3'-40GHz cable	NA	09/14/2009	09/14/2011	P02946
Power Supply	988614	10/14/2009	10/14/2010	1438

Test Data

Power Option 2, Method 2.

RBW=VBW: 8MHz

Detector: Sample

Average: 100 Trace average

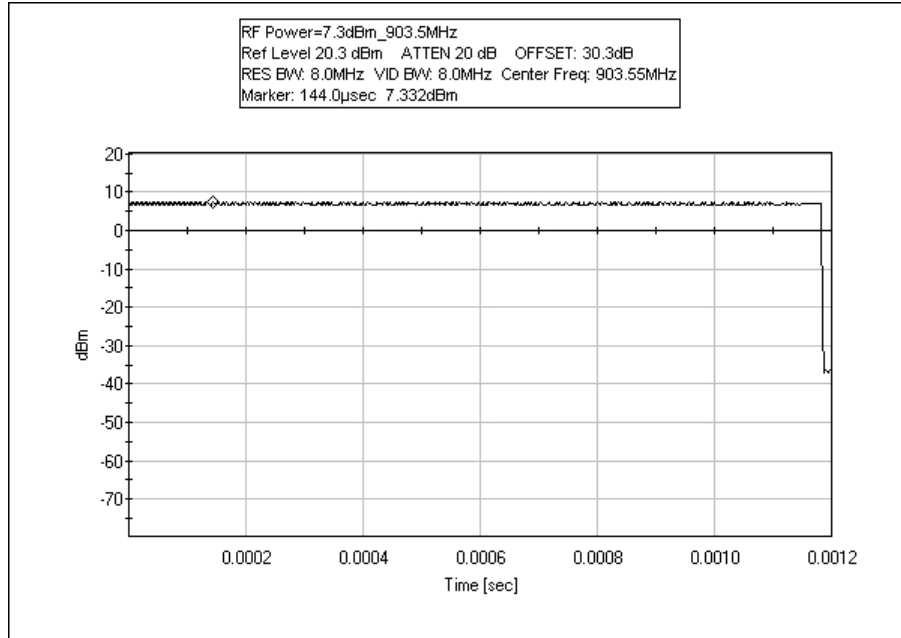
Trigger: RF Burst.

Sweep time: 1.2mS

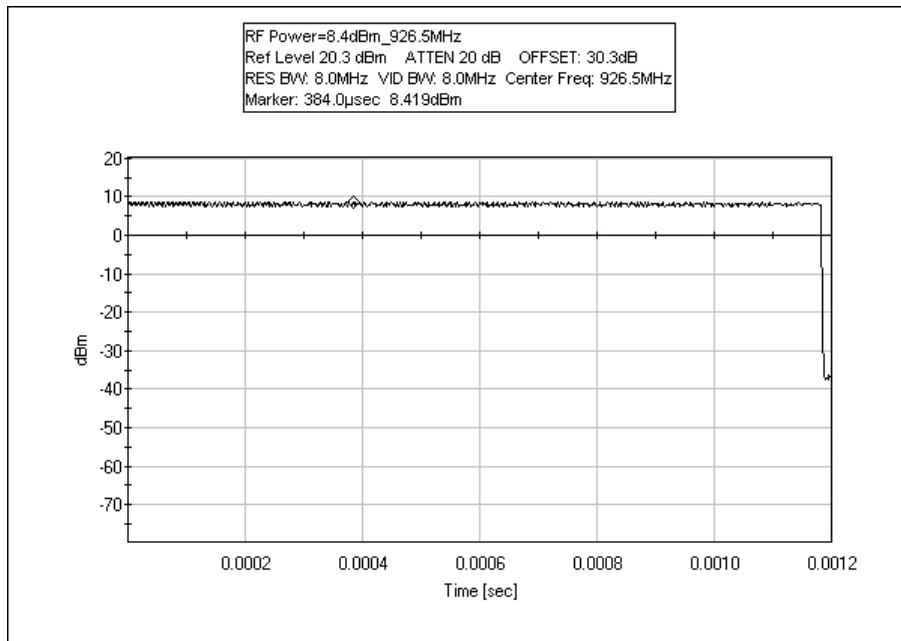
Frequency (MHz)	Power (dBm)	Power (W)
903.5	7.3	0.005
926.5	8.4	0.007

Test Plots

RF Power Output - 7.3dBm_903.5MHz



RF Power Output - 8.4dBm_926.5MHz



Test Setup Photos



15.247(d) Conducted Spurious Emissions

Test Data Sheets

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

Customer: **Anchor Audio, Inc.**
 Specification: **15.247(d) Conducted Spurious Emissions**
 Work Order #: **90319** Date: 3/8/2010
 Test Type: **Conducted Emissions** Time: 15:19:31
 Equipment: **Wireless Pier to Pier Intercom** Sequence#: 3
 Manufacturer: Anchor Audio, Inc. Tested By: E. Wong
 Model: ProLink 110V 60Hz
 S/N: NA

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
3'-40GHz cable	NA	10/28/2009	10/28/2011	P03174

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless Pier to Pier Intercom*	Anchor Audio, Inc.	ProLink	NA

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

The battery operated EUT is placed on the test bench, a microphone and headphone assembly is connected to the Audio port

Only one of the two radio module has transmit capability, while both have receiving function.

The transmit radio is set in constant transmit and receive mode, 1.2mSec pulse. Audio controls are set at the highest gain. Any detected audio noise is digitized and transmitted.

Emission profile is evaluated at the transmit antenna port.

903.5-926 MHz

Freq: 903.5 - 926.0MHz

Power = 7.3dBm (0.005W), 8.4dBm (0.007W)

Modulation: GFSK

18°C, 40% Relative Humidity

15.31(e) Fresh batteries are installed.

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-10000 MHz RBW=1 MHz, VBW=1 MHz

RBW=VBW=100kHz.

Limit line 1: 7.3dBm+107=114.3dBuV, 114.3dBuV -20dB = 94.3dBuV.

Limit line 2: 8.4dBm+107=115.4dBuV, 115.4dBuV-20dB = 95.4dBuV.

Transducer Legend:

T1=Hi Freq_40GHz_3ft_CAB-AN3174-102811

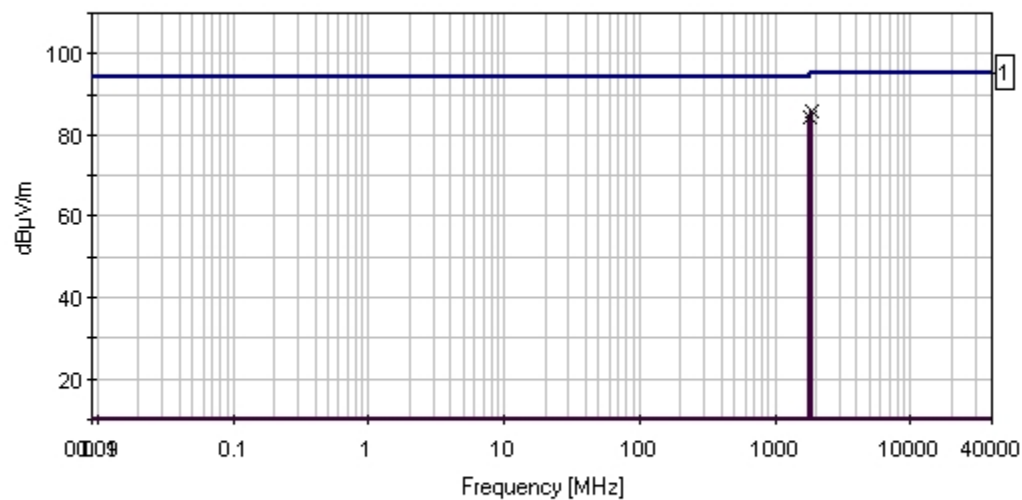
Measurement Data:

Reading listed by margin.

Test Lead: Antenna Terminal

#	Freq MHz	Rdng dB μ V	T1 dB				Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	1851.667M	85.3	+0.4				+0.0	85.7	95.4	-9.7	Anten
2	1807.242M	84.2	+0.4				+0.0	84.6	94.3	-9.7	Anten

CKC Laboratories, Inc. Date: 3/8/2010 Time: 15:19:31 Anchor Audio, Inc. WO#: 90319
 15.247(d) conducted Spurious Emissions Test Lead: Antenna Terminal 110V 60Hz Sequence#: 3
 ProLink



— Sweep Data
 — 1 - 15.247(d) conducted Spurious Emissions
 — Readings
 x Peak Readings

Test Setup Photos



15.247(d) / 15.209/15.205 Radiated Spurious Emissions

Test Data Sheets

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

Customer: **Anchor Audio, Inc.**
 Specification: **FCC 15.247 (d) (FCC 15.205 restricted band) (15.209)**
 Work Order #: **90319** Date: 3/8/2010
 Test Type: **Radiated Scan** Time: 13:40:59
 Equipment: **Wireless Pier to Pier Intercom** Sequence#: 2
 Manufacturer: Anchor Audio, Inc. Tested By: E. Wong
 Model: ProLink
 S/N: NA

Test Equipment:

Function	S/N	Calibration Date	Cal Due Date	Asset #
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
Pre amp to SA Cable	Cable #10	04/16/2009	04/16/2011	P05050
Cable	Cable15	01/05/2009	01/05/2011	P05198
Pre Amp	1937A02548	05/02/2008	05/02/2010	00309
Bicon Antenna	220	10/22/2009	10/22/2011	306
Log Antenna	331	10/22/2009	10/22/2011	300
Horn Antenna	6246	06/06/2008	06/06/2010	00849
Microwave Pre-amp	3123A00281	07/28/2008	07/28/2010	00786
Heliac Antenna Cable	P5565	09/04/2008	09/04/2010	P05565
2'-40GHz cable	NA	09/21/2009	09/21/2011	P2948
1.0 GHz HPF	002	09/14/2009	09/14/2011	03169
Loop Antenna	2014	06/16/2008	06/16/2010	00314

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
Wireless Pier to Pier Intercom*	Anchor Audio, Inc.	ProLink	NA

Support Devices:

Function	Manufacturer	Model #	S/N
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Test Conditions / Notes:

The battery operated EUT is strapped on a PVC structure and placed on a wooden table lined with Styrofoam of 5 cm thickness. A microphone and headphone assembly is connected to the Audio port

Only one of the two radio module has transmit capability, while both have receiving function.

The transmit radio is set in constant transmit and receive mode, 1.2mSec pulse. Audio controls are set at the highest gain. Any detected audio noise is digitized and transmitted.

903.5-926 MHz

Freq: 903.5 - 926.0MHz

Power = 7.3dBm (0.005W), 8.4dBm (0.007W)

Modulation: GFSK

18°C, 40% Relative Humidity

15.31(e) Fresh batteries are installed.

Emission profile of the EUT rotated along its three orthogonal axis was evaluated.

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-10000 MHz RBW=1 MHz, VBW=1 MHz

In the non restricted band, emission limits at 1807 and 1851 MHz are calculated from measured peak emission of the fundamental frequency at that particular orientation. -20dBc for measured peak reading, -30dBc for measured average reading.

Transducer Legend:

T1=Bico AN00306_102211	T2=Log AN00300_102211
T3=Cable #10 ANP05050 041611	T4=Cable #15_05198_ Site A, 010511
T5=Pre_amp_HP8447D-AN00309-050210	T6=Heliac Cable 54' ANP05565 090410
T7=HF_pre AMP-1-26GHz_AN00786-072810.TRN	T8=Hi Freq_40GHz_2ft-AN02948-092111
T9=Horn Ant AN00849 060610	T10=HPF_1GHz_AN03169-091411.TRN

Measurement Data:

Reading listed by margin.

Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9	T2 T6 T10	T3 T7	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dBμV	dB	dB	dB	dB	Table	dBμV/m	dBμV/m	dB	Ant
1	352.263M	51.3	+0.0	+18.8	+0.3	+3.3	+0.0	45.9	46.0	-0.1	Horiz
	QP		-27.8	+0.0	+0.0	+0.0			Z		
			+0.0	+0.0							
^	352.263M	52.8	+0.0	+18.8	+0.3	+3.3	+0.0	47.4	46.0	+1.4	Horiz
			-27.8	+0.0	+0.0	+0.0			Z		
			+0.0	+0.0							
^	352.220M	48.8	+0.0	+18.8	+0.3	+3.3	+0.0	43.4	46.0	-2.6	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0							
^	352.250M	46.0	+0.0	+18.8	+0.3	+3.3	+0.0	40.6	46.0	-5.4	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0							

^	352.233M	45.9	+0.0 -27.8 +0.0	+18.8 +0.0 +0.0	+0.3 +0.0 +0.0	+3.3 +0.0 +0.0	+0.0	40.5 Y	46.0	-5.5	Horiz
6	352.233M QP	49.2	+0.0 -27.8 +0.0	+18.8 +0.0 +0.0	+0.3 +0.0 +0.0	+3.3 +0.0 +0.0	+0.0	43.8	46.0	-2.2	Vert
^	352.233M	50.9	+0.0 -27.8 +0.0	+18.8 +0.0 +0.0	+0.3 +0.0 +0.0	+3.3 +0.0 +0.0	+0.0	45.5	46.0	-0.5	Vert
^	352.262M	50.3	+0.0 -27.8 +0.0	+18.8 +0.0 +0.0	+0.3 +0.0 +0.0	+3.3 +0.0 +0.0	+0.0	44.9	46.0	-1.1	Vert
^	352.233M	45.5	+0.0 -27.8 +0.0	+18.8 +0.0 +0.0	+0.3 +0.0 +0.0	+3.3 +0.0 +0.0	+0.0	40.1 Y	46.0	-5.9	Vert
^	352.263M	43.3	+0.0 -27.8 +0.0	+18.8 +0.0 +0.0	+0.3 +0.0 +0.0	+3.3 +0.0 +0.0	+0.0	37.9 Z	46.0	-8.1	Vert
11	352.262M QP	48.9	+0.0 -27.8 +0.0	+18.8 +0.0 +0.0	+0.3 +0.0 +0.0	+3.3 +0.0 +0.0	+0.0	43.5	46.0	-2.5	Vert
12	368.600M QP	49.3	+0.0 -27.8 +0.0	+17.7 +0.0 +0.0	+0.3 +0.0 +0.0	+3.4 +0.0 +0.0	+0.0	42.9 Z	46.0	-3.1	Horiz
^	368.600M	52.4	+0.0 -27.8 +0.0	+17.7 +0.0 +0.0	+0.3 +0.0 +0.0	+3.4 +0.0 +0.0	+0.0	46.0 Z	46.0	+0.0	Horiz
^	368.632M	48.5	+0.0 -27.8 +0.0	+17.7 +0.0 +0.0	+0.3 +0.0 +0.0	+3.4 +0.0 +0.0	+0.0	42.1 Y	46.0	-3.9	Horiz
^	368.637M	48.3	+0.0 -27.8 +0.0	+17.7 +0.0 +0.0	+0.3 +0.0 +0.0	+3.4 +0.0 +0.0	+0.0	41.9	46.0	-4.1	Horiz
16	368.629M QP	49.2	+0.0 -27.8 +0.0	+17.7 +0.0 +0.0	+0.3 +0.0 +0.0	+3.4 +0.0 +0.0	+0.0	42.8	46.0	-3.2	Vert
^	368.629M	51.4	+0.0 -27.8 +0.0	+17.7 +0.0 +0.0	+0.3 +0.0 +0.0	+3.4 +0.0 +0.0	+0.0	45.0	46.0	-1.0	Vert
^	368.632M	45.9	+0.0 -27.8 +0.0	+17.7 +0.0 +0.0	+0.3 +0.0 +0.0	+3.4 +0.0 +0.0	+0.0	39.5 Y	46.0	-6.5	Vert
^	368.633M	43.6	+0.0 -27.8 +0.0	+17.7 +0.0 +0.0	+0.3 +0.0 +0.0	+3.4 +0.0 +0.0	+0.0	37.2 Z	46.0	-8.8	Vert
20	840.003M	40.2	+0.0 -27.0 +0.0	+23.0 +0.0 +0.0	+0.6 +0.0 +0.0	+5.5 +0.0 +0.0	+0.0	42.3	46.0	-3.7	Horiz
21	335.862M QP	46.2	+0.0 -27.8 +0.0	+20.0 +0.0 +0.0	+0.3 +0.0 +0.0	+3.2 +0.0 +0.0	+0.0	41.9	46.0	-4.1	Vert

22	2776.983M	53.2	+0.0 +0.0 +29.4	+0.0 +4.1 +0.3	+0.0 -37.7 +0.5	+0.0 +0.0 +0.0	+0.0 +0.0 +0.0	49.8	54.0 Y_926MHz	-4.2	Horiz
23	352.220M QP	45.1	+0.0 -27.8 +0.0	+18.8 +0.0 +0.0	+0.3 +0.0 +0.0	+3.3 +0.0 +0.0	+0.0 +0.0 +0.0	39.7	46.0	-6.3	Horiz
24	2777.033M	50.7	+0.0 +0.0 +29.4	+0.0 +4.1 +0.3	+0.0 -37.7 +0.5	+0.0 +0.0 +0.0	+0.0 +0.0 +0.0	47.3	54.0 X_926MHz	-6.7	Horiz
25	3614.717M	47.7	+0.0 +0.0 +31.5	+0.0 +4.8 +0.2	+0.0 -37.5 +0.6	+0.0 +0.0 +0.0	+0.0 +0.0 +0.0	47.3	54.0 X_903MHz	-6.7	Horiz
26	335.900M QP	43.7	+0.0 -27.8 +0.0	+19.9 +0.0 +0.0	+0.3 +0.0 +0.0	+3.2 +0.0 +0.0	+0.0 +0.0 +0.0	39.3	46.0	-6.7	Vert
^	335.900M	47.6	+0.0 -27.8 +0.0	+19.9 +0.0 +0.0	+0.3 +0.0 +0.0	+3.2 +0.0 +0.0	+0.0 +0.0 +0.0	43.2	46.0	-2.8	Vert
^	335.862M	46.9	+0.0 -27.8 +0.0	+20.0 +0.0 +0.0	+0.3 +0.0 +0.0	+3.2 +0.0 +0.0	+0.0 +0.0 +0.0	42.6	46.0	-3.4	Vert
29	3703.233M	46.9	+0.0 +0.0 +31.8	+0.0 +4.8 +0.2	+0.0 -37.2 +0.6	+0.0 +0.0 +0.0	+0.0 +0.0 +0.0	47.1	54.0 X_926MHz	-6.9	Vert
30	335.910M	43.5	+0.0 -27.8 +0.0	+19.9 +0.0 +0.0	+0.3 +0.0 +0.0	+3.2 +0.0 +0.0	+0.0 +0.0 +0.0	39.1	46.0	-6.9	Horiz
31	3614.208M	47.4	+0.0 +0.0 +31.5	+0.0 +4.8 +0.2	+0.0 -37.5 +0.6	+0.0 +0.0 +0.0	+0.0 +0.0 +0.0	47.0	54.0 Z_903MHz	-7.0	Vert
32	385.009M	46.2	+0.0 -27.8 +0.0	+16.6 +0.0 +0.0	+0.4 +0.0 +0.0	+3.5 +0.0 +0.0	+0.0 +0.0 +0.0	38.9	46.0	-7.1	Vert
33	385.009M	46.2	+0.0 -27.8 +0.0	+16.6 +0.0 +0.0	+0.4 +0.0 +0.0	+3.5 +0.0 +0.0	+0.0 +0.0 +0.0	38.9	46.0	-7.1	Vert
34	3703.600M	46.5	+0.0 +0.0 +31.8	+0.0 +4.8 +0.2	+0.0 -37.2 +0.6	+0.0 +0.0 +0.0	+0.0 +0.0 +0.0	46.7	54.0 Z_926MHz	-7.3	Vert
35	3614.425M	46.5	+0.0 +0.0 +31.5	+0.0 +4.8 +0.2	+0.0 -37.5 +0.6	+0.0 +0.0 +0.0	+0.0 +0.0 +0.0	46.1	54.0 Z_903MHz	-7.9	Horiz
36	5418.875M Ave	41.6	+0.0 +0.0 +33.8	+0.0 +6.2 +0.1	+0.0 -36.6 +0.7	+0.0 +0.7 +0.0	+0.0 +0.0 +0.0	45.8	54.0 Z_903MHz	-8.2	Vert
^	5418.875M	50.7	+0.0 +0.0 +33.8	+0.0 +6.2 +0.1	+0.0 -36.6 +0.7	+0.0 +0.7 +0.0	+0.0 +0.0 +0.0	54.9	54.0 Z_903MHz	+0.9	Vert
38	3614.420M	46.2	+0.0 +0.0 +31.5	+0.0 +4.8 +0.2	+0.0 -37.5 +0.6	+0.0 +0.6 +0.0	+0.0 +0.0 +0.0	45.8	54.0 Y_903MHz	-8.2	Vert

39	360.928M	43.2	+0.0 -27.8 +0.0	+18.2 +0.0 +0.0	+0.3 +0.0 +0.0	+3.4 +0.0 +0.0	+0.0	37.3	46.0	-8.7	Vert
40	319.427M	39.8	+0.0 -27.8 +0.0	+21.2 +0.0 +0.0	+0.3 +0.0 +0.0	+3.1 +0.0 +0.0	+0.0	36.6	46.0	-9.4	Horiz
41	3614.000M	44.7	+0.0 +0.0 +31.5	+0.0 +4.8 +0.2	+0.0 -37.5 +0.6	+0.0 +0.0 +0.0	+0.0	44.3	54.0 Y_903MHz	-9.7	Horiz
42	401.385M	44.4	+0.0 -27.8 +0.0	+15.7 +0.0 +0.0	+0.4 +0.0 +0.0	+3.6 +0.0 +0.0	+0.0	36.3	46.0	-9.7	Vert
43	5553.950M Ave	39.8	+0.0 +0.0 +33.8	+0.0 +6.2 +0.1	+0.0 -36.6 +0.7	+0.0 +0.0 +0.0	+0.0	44.0	54.0 Z_926MHz	-10.0	Vert
^	5553.950M	51.9	+0.0 +0.0 +33.8	+0.0 +6.2 +0.1	+0.0 -36.6 +0.7	+0.0 +0.0 +0.0	+0.0	56.1	54.0 Z_926MHz	+2.1	Vert
^	5553.950M	47.4	+0.0 +0.0 +33.8	+0.0 +6.2 +0.1	+0.0 -36.6 +0.7	+0.0 +0.0 +0.0	+0.0	51.6	54.0 X_926MHz	-2.4	Vert
46	5553.733M Ave	39.4	+0.0 +0.0 +33.8	+0.0 +6.2 +0.1	+0.0 -36.6 +0.7	+0.0 +0.0 +0.0	+0.0	43.6	54.0 Y_926MHz	-10.4	Vert
^	5553.733M	51.1	+0.0 +0.0 +33.8	+0.0 +6.2 +0.1	+0.0 -36.6 +0.7	+0.0 +0.0 +0.0	+0.0	55.3	54.0 Y_926MHz	+1.3	Vert
48	5553.900M Ave	39.0	+0.0 +0.0 +33.8	+0.0 +6.2 +0.1	+0.0 -36.6 +0.7	+0.0 +0.0 +0.0	+0.0	43.2	54.0 X_926MHz	-10.8	Horiz
49	1807.108M Ave	67.7	+0.0 +0.0 +26.6	+0.0 +3.2 +0.3	+0.0 -38.0 +0.4	+0.0 +0.0 +0.0	+0.0	60.2	71.0 Z_903MHz	-10.8	Horiz
^	1807.108M	86.7	+0.0 +0.0 +26.6	+0.0 +3.2 +0.3	+0.0 -38.0 +0.4	+0.0 +0.0 +0.0	+0.0	79.2	81.0 Z_903MHz	-1.8	Horiz
51	385.017M	42.5	+0.0 -27.8 +0.0	+16.6 +0.0 +0.0	+0.4 +0.0 +0.0	+3.5 +0.0 +0.0	+0.0	35.2	46.0	-10.8	Vert
52	5418.770M Ave	38.8	+0.0 +0.0 +33.8	+0.0 +6.2 +0.1	+0.0 -36.6 +0.7	+0.0 +0.0 +0.0	+0.0	43.0	54.0 Y_903MHz	-11.0	Vert
^	5418.770M	51.1	+0.0 +0.0 +33.8	+0.0 +6.2 +0.1	+0.0 -36.6 +0.7	+0.0 +0.0 +0.0	+0.0	55.3	54.0 Y_903MHz	+1.3	Vert
54	262.147M	39.6	+19.8 -27.7 +0.0	+0.0 +0.0 +0.0	+0.3 +0.0 +0.0	+2.8 +0.0 +0.0	+0.0	34.8	46.0	-11.2	Horiz
55	377.283M	41.5	+0.0 -27.8 +0.0	+17.1 +0.0 +0.0	+0.4 +0.0 +0.0	+3.5 +0.0 +0.0	+0.0	34.7	46.0	-11.3	Vert

56	401.383M	42.4	+0.0 -27.8 +0.0	+15.7 +0.0 +0.0	+0.4 +0.0 +0.0	+3.6 +0.0 +0.0	+0.0	34.3	46.0	-11.7	Vert
57	5553.833M Ave	37.3	+0.0 +0.0 +33.8	+0.0 +6.2 +0.1	+0.0 -36.6 +0.7	+0.0 +0.7 +0.0	+0.0	41.5	54.0 Z_926MHz	-12.5	Horiz
^	5553.900M	50.1	+0.0 +0.0 +33.8	+0.0 +6.2 +0.1	+0.0 -36.6 +0.7	+0.0 +0.7 +0.0	+0.0	54.3	54.0 X_926MHz	+0.3	Horiz
^	5553.833M	48.2	+0.0 +0.0 +33.8	+0.0 +6.2 +0.1	+0.0 -36.6 +0.7	+0.0 +0.7 +0.0	+0.0	52.4	54.0 Z_926MHz	-1.6	Horiz
^	5553.767M	47.5	+0.0 +0.0 +33.8	+0.0 +6.2 +0.1	+0.0 -36.6 +0.7	+0.0 +0.7 +0.0	+0.0	51.7	54.0 Y_926MHz	-2.3	Horiz
61	5418.633M Ave	37.2	+0.0 +0.0 +33.8	+0.0 +6.2 +0.1	+0.0 -36.6 +0.7	+0.0 +0.7 +0.0	+0.0	41.4	54.0 X_903MHz	-12.6	Horiz
^	5418.633M	49.8	+0.0 +0.0 +33.8	+0.0 +6.2 +0.1	+0.0 -36.6 +0.7	+0.0 +0.7 +0.0	+0.0	54.0	54.0 X_903MHz	+0.0	Horiz
63	480.017M	39.4	+0.0 -27.8 +0.0	+17.1 +0.0 +0.0	+0.4 +0.0 +0.0	+4.0 +0.0 +0.0	+0.0	33.1	46.0	-12.9	Vert
64	417.767M	40.4	+0.0 -27.8 +0.0	+16.0 +0.0 +0.0	+0.4 +0.0 +0.0	+3.7 +0.0 +0.0	+0.0	32.7	46.0	-13.3	Vert
65	952.550M	28.9	+0.0 -27.2 +0.0	+24.2 +0.0 +0.0	+0.7 +0.0 +0.0	+5.9 +0.0 +0.0	+0.0	32.5	46.0	-13.5	Vert
66	1806.870M Ave	67.7	+0.0 +0.0 +26.6	+0.0 +3.2 +0.3	+0.0 -38.0 +0.4	+0.0 +0.4 +0.0	+0.0	60.2	73.8 Y_903MHz	-13.6	Horiz
^	1806.870M	86.8	+0.0 +0.0 +26.6	+0.0 +3.2 +0.3	+0.0 -38.0 +0.4	+0.0 +0.4 +0.0	+0.0	79.3	83.5 Y_903MHz	-4.2	Horiz
68	5418.667M Ave	36.2	+0.0 +0.0 +33.8	+0.0 +6.2 +0.1	+0.0 -36.6 +0.7	+0.0 +0.7 +0.0	+0.0	40.4	54.0 X_903MHz	-13.6	Vert
^	5418.667M	48.7	+0.0 +0.0 +33.8	+0.0 +6.2 +0.1	+0.0 -36.6 +0.7	+0.0 +0.7 +0.0	+0.0	52.9	54.0 X_903MHz	-1.1	Vert
70	375.020M	38.4	+0.0 -27.8 +0.0	+17.3 +0.0 +0.0	+0.4 +0.0 +0.0	+3.5 +0.0 +0.0	+0.0	31.8	46.0	-14.2	Horiz
71	5418.767M Ave	35.5	+0.0 +0.0 +33.8	+0.0 +6.2 +0.1	+0.0 -36.6 +0.7	+0.0 +0.7 +0.0	+0.0	39.7	54.0 Z_903MHz	-14.3	Horiz
^	5418.742M	48.1	+0.0 +0.0 +33.8	+0.0 +6.2 +0.1	+0.0 -36.6 +0.7	+0.0 +0.7 +0.0	+0.0	52.3	54.0 Y_903MHz	-1.7	Horiz

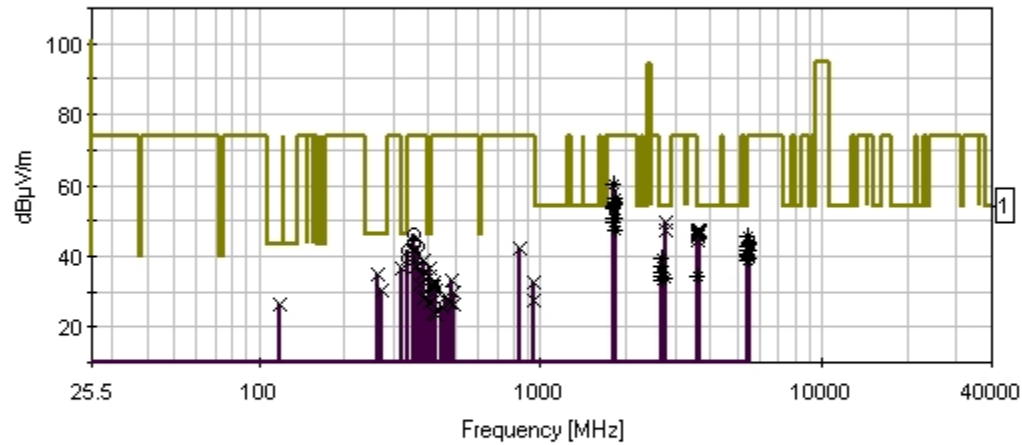
^	5418.767M	47.8	+0.0	+0.0	+0.0	+0.0	+0.0	52.0	54.0	-2.0	Horiz
			+0.0	+6.2	-36.6	+0.7			Z_903MHz		
			+33.8	+0.1							
74	5553.767M	35.4	+0.0	+0.0	+0.0	+0.0	+0.0	39.6	54.0	-14.4	Horiz
	Ave		+0.0	+6.2	-36.6	+0.7			Y_926MHz		
			+33.8	+0.1							
75	2710.167M	43.2	+0.0	+0.0	+0.0	+0.0	+0.0	39.4	54.0	-14.6	Horiz
	Ave		+0.0	+4.1	-37.8	+0.5			Y_903MHz		
			+29.1	+0.3							
^	2710.167M	62.2	+0.0	+0.0	+0.0	+0.0	+0.0	58.4	54.0	+4.4	Horiz
			+0.0	+4.1	-37.8	+0.5			Y_903MHz		
			+29.1	+0.3							
77	5553.950M	35.1	+0.0	+0.0	+0.0	+0.0	+0.0	39.3	54.0	-14.7	Vert
	Ave		+0.0	+6.2	-36.6	+0.7			X_926MHz		
			+33.8	+0.1							
78	410.117M	39.1	+0.0	+15.9	+0.4	+3.6	+0.0	31.2	46.0	-14.8	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0							
79	417.769M	38.9	+0.0	+16.0	+0.4	+3.7	+0.0	31.2	46.0	-14.8	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0							
80	1807.258M	61.8	+0.0	+0.0	+0.0	+0.0	+0.0	54.3	69.3	-15.0	Vert
	Ave		+0.0	+3.2	-38.0	+0.4			Z_903MHz		
			+26.6	+0.3							
^	1807.258M	81.4	+0.0	+0.0	+0.0	+0.0	+0.0	73.9	79.3	-5.4	Vert
			+0.0	+3.2	-38.0	+0.4			Z_903MHz		
			+26.6	+0.3							
82	5418.742M	34.6	+0.0	+0.0	+0.0	+0.0	+0.0	38.8	54.0	-15.2	Horiz
	Ave		+0.0	+6.2	-36.6	+0.7			Y_903MHz		
			+33.8	+0.1							
83	1851.250M	62.6	+0.0	+0.0	+0.0	+0.0	+0.0	55.3	70.8	-15.5	Vert
	Ave		+0.0	+3.2	-38.0	+0.4			Z_926MHz		
			+26.8	+0.3							
^	1851.250M	87.3	+0.0	+0.0	+0.0	+0.0	+0.0	80.0	80.8	-0.8	Vert
			+0.0	+3.2	-38.0	+0.4			Z_926MHz		
			+26.8	+0.3							
^	1851.250M	82.4	+0.0	+0.0	+0.0	+0.0	+0.0	75.1	77.8	-2.7	Vert
			+0.0	+3.2	-38.0	+0.4			Y_926MHz		
			+26.8	+0.3							
^	1851.233M	88.2	+0.0	+0.0	+0.0	+0.0	+0.0	80.9	85.1	-4.2	Vert
			+0.0	+3.2	-38.0	+0.4			X_926MHz		
			+26.8	+0.3							
87	425.967M	38.1	+0.0	+16.2	+0.3	+3.7	+0.0	30.5	46.0	-15.5	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0							
88	410.102M	38.4	+0.0	+15.9	+0.4	+3.6	+0.0	30.5	46.0	-15.5	Vert
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0							
89	271.997M	34.1	+20.8	+0.0	+0.3	+2.9	+0.0	30.3	46.0	-15.7	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0							

90	491.479M	35.7	+0.0 -27.8 +0.0	+17.3 +0.0 +0.0	+0.4 +0.0 +0.0	+4.1 +0.0 +0.0	+0.0	29.7	46.0	-16.3	Vert
91	2710.583M Ave	40.9	+0.0 +0.0 +29.1	+0.0 +4.1 +0.3	+0.0 -37.8 +0.5	+0.0 +0.5 +0.0	+0.0	37.1	54.0 X_903MHz	-16.9	Vert
^	2710.583M	59.3	+0.0 +0.0 +29.1	+0.0 +4.1 +0.3	+0.0 -37.8 +0.5	+0.0 +0.5 +0.0	+0.0	55.5	54.0 X_903MHz	+1.5	Vert
^	2710.587M	51.4	+0.0 +0.0 +29.1	+0.0 +4.1 +0.3	+0.0 -37.8 +0.5	+0.0 +0.5 +0.0	+0.0	47.6	54.0 Y_903MHz	-6.4	Vert
94	117.725M	37.7	+14.7 -27.9 +0.0	+0.0 +0.0 +0.0	+0.2 +0.0 +0.0	+1.7 +0.0 +0.0	+0.0	26.4	43.5	-17.1	Vert
95	1851.250M Ave	57.9	+0.0 +0.0 +26.8	+0.0 +3.2 +0.3	+0.0 -38.0 +0.4	+0.0 +0.4 +0.0	+0.0	50.6	67.8 Y_926MHz	-17.2	Vert
96	462.817M	35.6	+0.0 -27.8 +0.0	+16.8 +0.0 +0.0	+0.3 +0.0 +0.0	+3.9 +0.0 +0.0	+0.0	28.8	46.0	-17.2	Horiz
97	393.203M	36.4	+0.0 -27.8 +0.0	+16.1 +0.0 +0.0	+0.4 +0.0 +0.0	+3.6 +0.0 +0.0	+0.0	28.7	46.0	-17.3	Horiz
98	385.067M	35.5	+0.0 -27.8 +0.0	+16.6 +0.0 +0.0	+0.4 +0.0 +0.0	+3.5 +0.0 +0.0	+0.0	28.2	46.0	-17.8	Horiz
99	2710.942M Ave	39.3	+0.0 +0.0 +29.1	+0.0 +4.1 +0.3	+0.0 -37.8 +0.5	+0.0 +0.5 +0.0	+0.0	35.5	54.0 Z_903MHz	-18.5	Horiz
^	2710.942M	57.7	+0.0 +0.0 +29.1	+0.0 +4.1 +0.3	+0.0 -37.8 +0.5	+0.0 +0.5 +0.0	+0.0	53.9	54.0 Z_903MHz	-0.1	Horiz
101	942.692M	23.7	+0.0 -27.2 +0.0	+24.2 +0.0 +0.0	+0.7 +0.0 +0.0	+5.9 +0.0 +0.0	+0.0	27.3	46.0	-18.7	Vert
102	1851.233M Ave	63.5	+0.0 +0.0 +26.8	+0.0 +3.2 +0.3	+0.0 -38.0 +0.4	+0.0 +0.4 +0.0	+0.0	56.2	75.1 X_926MHz	-18.9	Vert
103	475.067M	33.4	+0.0 -27.8 +0.0	+17.0 +0.0 +0.0	+0.4 +0.0 +0.0	+4.0 +0.0 +0.0	+0.0	27.0	46.0	-19.0	Vert
104	401.433M	35.0	+0.0 -27.8 +0.0	+15.7 +0.0 +0.0	+0.4 +0.0 +0.0	+3.6 +0.0 +0.0	+0.0	26.9	46.0	-19.1	Horiz
105	491.450M	32.4	+0.0 -27.8 +0.0	+17.3 +0.0 +0.0	+0.4 +0.0 +0.0	+4.1 +0.0 +0.0	+0.0	26.4	46.0	-19.6	Vert
106	1851.167M Ave	62.1	+0.0 +0.0 +26.8	+0.0 +3.2 +0.3	+0.0 -38.0 +0.4	+0.0 +0.4 +0.0	+0.0	54.8	74.6 Y_926MHz	-19.8	Horiz

107	3614.667M Ave	34.6	+0.0 +0.0 +31.5	+0.0 +4.8 +0.2	+0.0 -37.5 +0.6	+0.0 +0.0 +0.0	34.2	54.0 X_903MHz	-19.8	Vert
^	3614.667M	51.5	+0.0 +0.0 +31.5	+0.0 +4.8 +0.2	+0.0 -37.5 +0.6	+0.0 +0.0 +0.0	51.1	54.0 X_903MHz	-2.9	Vert
109	1851.250M Ave	62.0	+0.0 +0.0 +26.8	+0.0 +3.2 +0.3	+0.0 -38.0 +0.4	+0.0 +0.0 +0.0	54.7	74.6 Z_926MHz	-19.9	Horiz
^	1851.167M	87.9	+0.0 +0.0 +26.8	+0.0 +3.2 +0.3	+0.0 -38.0 +0.4	+0.0 +0.0 +0.0	80.6	84.6 Y_926MHz	-4.0	Horiz
^	1851.250M	86.6	+0.0 +0.0 +26.8	+0.0 +3.2 +0.3	+0.0 -38.0 +0.4	+0.0 +0.0 +0.0	79.3	84.6 Z_926MHz	-5.3	Horiz
112	2777.200M Ave	37.2	+0.0 +0.0 +29.4	+0.0 +4.1 +0.3	+0.0 -37.7 +0.5	+0.0 +0.0 +0.0	33.8	54.0 Z_926MHz	-20.2	Horiz
^	2777.200M	55.9	+0.0 +0.0 +29.4	+0.0 +4.1 +0.3	+0.0 -37.7 +0.5	+0.0 +0.0 +0.0	52.5	54.0 Z_926MHz	-1.5	Horiz
114	2777.783M Ave	37.2	+0.0 +0.0 +29.4	+0.0 +4.1 +0.3	+0.0 -37.7 +0.5	+0.0 +0.0 +0.0	33.8	54.0 Z_926MHz	-20.2	Vert
^	2777.783M	54.9	+0.0 +0.0 +29.4	+0.0 +4.1 +0.3	+0.0 -37.7 +0.5	+0.0 +0.0 +0.0	51.5	54.0 Z_926MHz	-2.5	Vert
^	2777.733M	48.5	+0.0 +0.0 +29.4	+0.0 +4.1 +0.3	+0.0 -37.7 +0.5	+0.0 +0.0 +0.0	45.1	54.0 Y_926MHz	-8.9	Vert
117	2777.617M Ave	37.2	+0.0 +0.0 +29.4	+0.0 +4.1 +0.3	+0.0 -37.7 +0.5	+0.0 +0.0 +0.0	33.8	54.0 X_926MHz	-20.2	Vert
^	2777.617M	54.4	+0.0 +0.0 +29.4	+0.0 +4.1 +0.3	+0.0 -37.7 +0.5	+0.0 +0.0 +0.0	51.0	54.0 X_926MHz	-3.0	Vert
119	444.917M	33.0	+0.0 -27.8 +0.0	+16.5 +0.0 +0.0	+0.3 +0.0 +0.0	+3.8 +0.0 +0.0	25.8	46.0	-20.2	Vert
120	1807.720M Ave	61.2	+0.0 +0.0 +26.6	+0.0 +3.2 +0.3	+0.0 -38.0 +0.4	+0.0 +0.0 +0.0	53.7	74.1 X_903MHz	-20.4	Vert
121	2711.092M Ave	37.2	+0.0 +0.0 +29.1	+0.0 +4.1 +0.3	+0.0 -37.8 +0.5	+0.0 +0.0 +0.0	33.4	54.0 Z_903MHz	-20.6	Vert
^	2711.092M	55.5	+0.0 +0.0 +29.1	+0.0 +4.1 +0.3	+0.0 -37.8 +0.5	+0.0 +0.0 +0.0	51.7	54.0 Z_903MHz	-2.3	Vert
123	1807.653M Ave	56.8	+0.0 +0.0 +26.6	+0.0 +3.2 +0.3	+0.0 -38.0 +0.4	+0.0 +0.0 +0.0	49.3	70.5 Y_903MHz	-21.2	Vert

^	1807.720M	85.8	+0.0	+0.0	+0.0	+0.0	+0.0	78.3	84.1	-5.8	Vert
			+0.0	+3.2	-38.0	+0.4					
			+26.6	+0.3							
^	1807.653M	79.9	+0.0	+0.0	+0.0	+0.0	+0.0	72.4	80.5	-8.1	Vert
			+0.0	+3.2	-38.0	+0.4					
			+26.6	+0.3							
126	1851.417M Ave	54.8	+0.0	+0.0	+0.0	+0.0	+0.0	47.5	69.4	-21.9	Horiz
			+0.0	+3.2	-38.0	+0.4					
			+26.8	+0.3							
^	1851.417M	76.7	+0.0	+0.0	+0.0	+0.0	+0.0	69.4	79.4	-10.0	Horiz
			+0.0	+3.2	-38.0	+0.4					
			+26.8	+0.3							
128	420.303M	31.6	+0.0	+16.1	+0.4	+3.7	+0.0	24.0	46.0	-22.0	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0							
129	425.933M	31.1	+0.0	+16.2	+0.3	+3.7	+0.0	23.5	46.0	-22.5	Horiz
			-27.8	+0.0	+0.0	+0.0					
			+0.0	+0.0							
130	1807.633M Ave	58.2	+0.0	+0.0	+0.0	+0.0	+0.0	50.7	74.1	-23.4	Horiz
			+0.0	+3.2	-38.0	+0.4					
			+26.6	+0.3							
^	1807.633M	81.3	+0.0	+0.0	+0.0	+0.0	+0.0	73.8	84.1	-10.3	Horiz
			+0.0	+3.2	-38.0	+0.4					
			+26.6	+0.3							
132	2710.633M Ave	38.1	+0.0	+0.0	+0.0	+0.0	+0.0	34.3	69.7	-35.4	Horiz
			+0.0	+4.1	-37.8	+0.5					
			+29.1	+0.3							
^	2710.633M	55.7	+0.0	+0.0	+0.0	+0.0	+0.0	51.9	79.7	-27.8	Horiz
			+0.0	+4.1	-37.8	+0.5					
			+29.1	+0.3							

CKC Laboratories, Inc. Date: 3/8/2010 Time: 13:40:59 Anchor Audio, Inc. WO#: 90319
 FCC 15.247 (d) (FCC 15.205 restricted band) (15.209) Test Distance: 3 Meters Sequence#: 2
 ProLink



Test Setup Photos







15.247(e) Power Spectral Density

Test Set up: The EUT is placed on the test bench. The device is set in continuous transmit and receive mode, the Power Spectral Density is measured at the transmit antenna port in accordance with KDB Publication No. 558074.

PSD, Option 2

RBW: 3kHz

VBW: 100kHz

Detector: Peak

Average: 100 Trace average

Trigger: RF Burst.

Sweep time: Auto

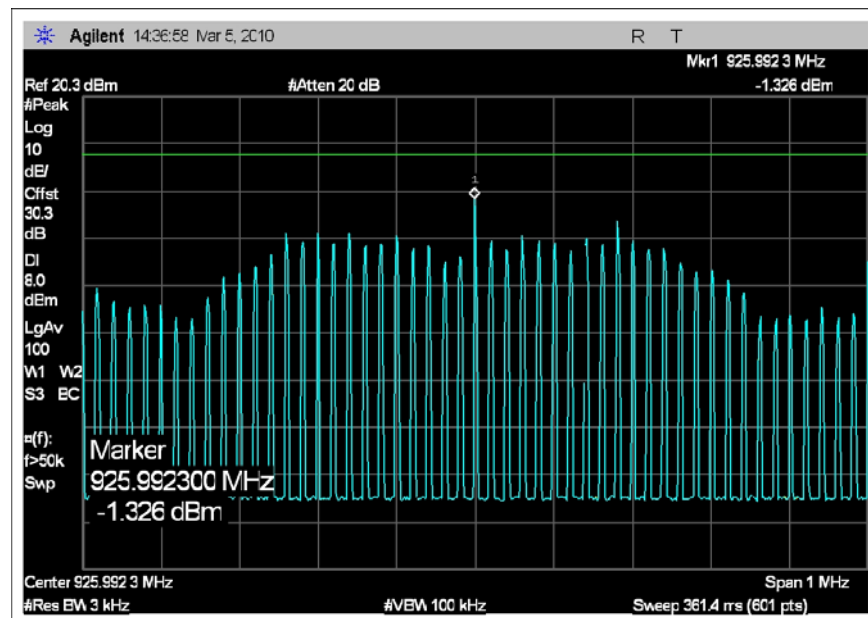
Engineer Name: E. Wong

Test Equipment

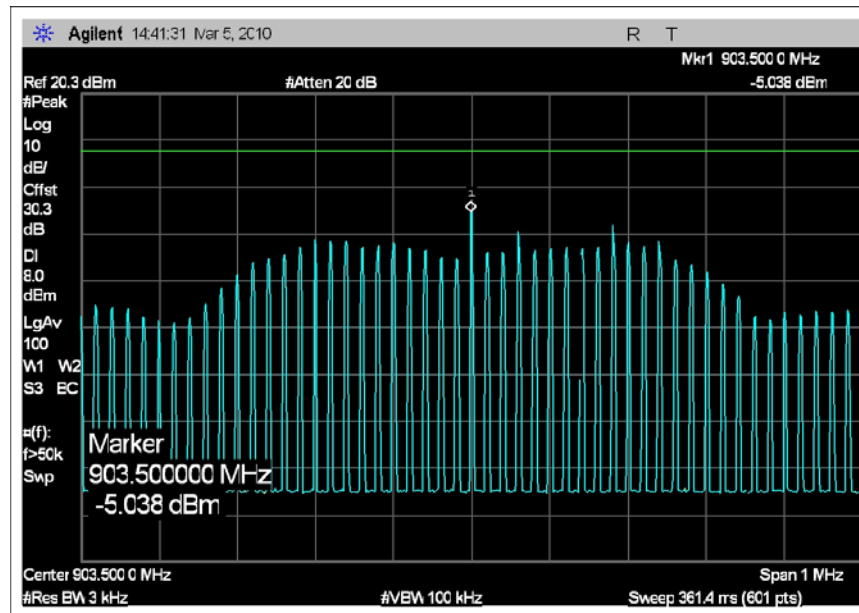
Name	Serial	Cal Date	Cal Due	Asset
Spectrum Analyzer	07/23/2008	07/23/2010	02672	US44300438
3'-40GHz cable	09/14/2009	09/14/2011	P02946	NA

Test Plots

Power Spectral Density = -1.3dBm_926MHz



Power Spectral Density = -5.0dBm_903MHz



Test Setup Photos



Band Edge

Test Set up: The battery operated EUT is strapped on a PVC structure and placed on a wooden table lined with Styrofoam of 5 cm thickness. A microphone and headphone assembly is connected to the Audio port. Only one of the two radio module has transmit capability, while both have receiving function. The transmit radio is set in constant transmit and receive mode, 1.2mSec pulse. Audio controls are set at the highest gain. Any detected audio noise is digitized and transmitted. Emissions profile of the EUT rotated along its three orthogonal axis was evaluated.

903.5-926 MHz.

Freq: 903.5 - 926.0MHz

Power = 7.3dBm (0.005W), 8.4dBm (0.007W)

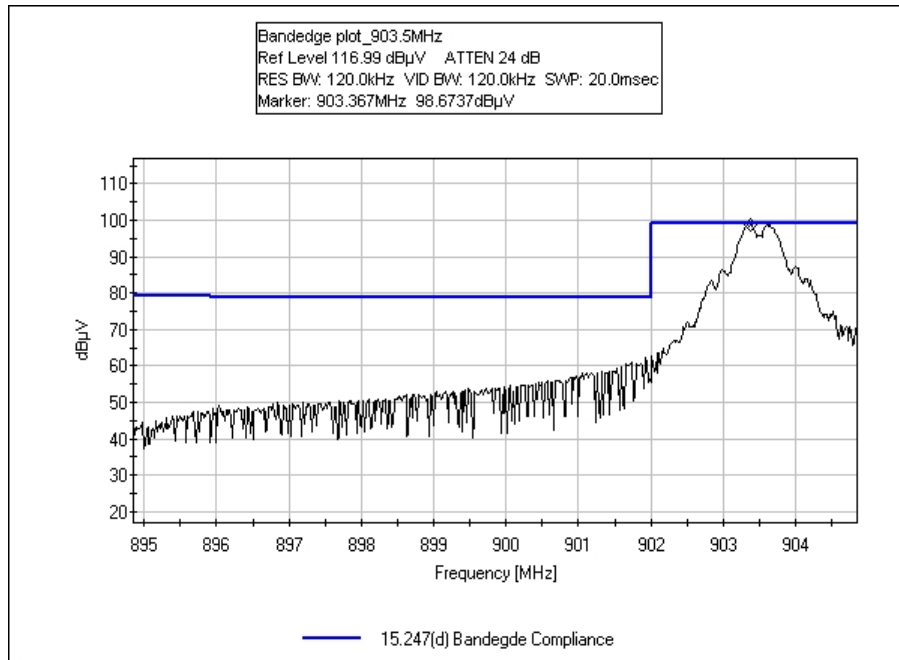
Modulation: GFSK

Engineer Name: E. Wong

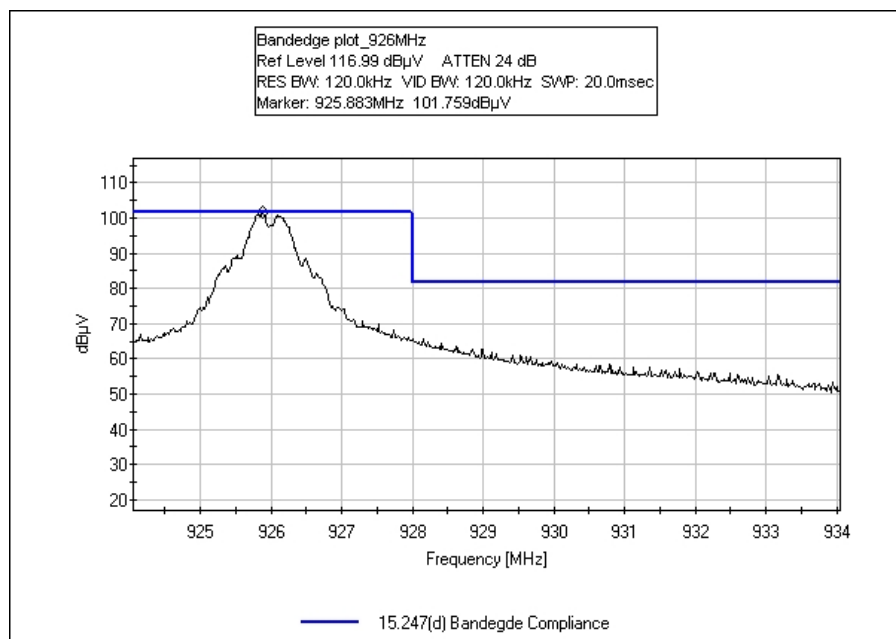
Test Equipment				
Equipment	Serial	Cal Date	Cal Due	Asset
Spectrum Analyzer	US44300438	07/23/2008	07/23/2010	02672
Pre amp to SA Cable	Cable #10	04/16/2009	04/16/2011	P05050
Cable	Cable15	01/05/2009	01/05/2011	P05198
Pre Amp	1937A02548	05/02/2008	05/02/2010	00309
Log Antenna	331	10/22/2009	10/22/2011	300

Test Data

Band Edge Plot_903.5MHz



Band Edge Plot_926MHz



Test Setup Photos



SUPPLEMENTAL INFORMATION

Measurement Uncertainty

Uncertainty Value	Parameter
4.73 dB	Radiated Emissions
3.34 dB	Mains Conducted Emissions
3.30 dB	Disturbance Power

The reported measurement uncertainties are calculated based on the worst case of all laboratory environments from CKC Laboratories, Inc. test sites. Only those parameters which require estimation of measurement uncertainty are reported. The reported worst case measurement uncertainty is less than the maximum values derived in CISPR 16-4-2. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k=2$. Compliance is deemed to occur provided measurements are below the specified limits.

Emissions Test Details

TESTING PARAMETERS

The cables were routed consistent with the typical application by varying the configuration of the test sample. Interface cables were connected to the available ports of the test unit. The effect of varying the position of the cables was investigated to find the configuration that produced maximum emissions. Cables were of the type and length specified in the individual requirements. The length of cable that produced maximum emissions was selected.

The equipment under test (EUT) was set up in a manner that represented its normal use, as shown in the setup photographs. Any special conditions required for the EUT to operate normally are identified in the comments that accompany the emissions tables.

The emissions data was taken with a spectrum analyzer or receiver. Incorporating the applicable correction factors for distance, antenna, cable loss and amplifier gain, the data was reduced as shown in the table below. The corrected data was then compared to the applicable emission limits. Preliminary and final measurements were taken in order to ensure that all emissions from the EUT were found and maximized.

CORRECTION FACTORS

The basic spectrum analyzer reading was converted using correction factors as shown in the highest emissions readings in the tables. For radiated emissions in dB μ V/m, the spectrum analyzer reading in dB μ V was corrected by using the following formula. This reading was then compared to the applicable specification limit.

SAMPLE CALCULATIONS		
	Meter reading	(dB μ V)
+	Antenna Factor	(dB)
+	Cable Loss	(dB)
-	Distance Correction	(dB)
-	Preamplifier Gain	(dB)
=	Corrected Reading	(dB μ V/m)

TEST INSTRUMENTATION AND ANALYZER SETTINGS

The test instrumentation and equipment listed were used to collect the emissions data. A spectrum analyzer or receiver was used for all measurements. For testing emissions, an appropriate reference level and a vertical scale size of 10 dB per division were used. When conducted emissions testing was performed, a 10 dB external attenuator was used with internal offset correction in the analyzer.

SPECTRUM ANALYZER/RECEIVER DETECTOR FUNCTIONS

The notes that accompany the measurements contained in the emissions tables indicate the type of detector function used to obtain the given readings. Unless otherwise noted, all readings were made in the "Peak" mode. Whenever a "Quasi-Peak" or "Average" reading is listed as one of the highest readings, this is indicated as a "QP" or an "Ave" on the appropriate rows of the data sheets. The following paragraphs describe in more detail the detector functions and when they were used to obtain the emissions data.

Peak

In this mode, the spectrum analyzer/receiver readings recorded all emissions at their peak value as the frequency band selected was scanned. By combining this function with another feature of the measuring device called "peak hold," the measuring device had the ability to measure transients or low duty cycle transient emission peak levels. In this mode the measuring device made a slow scan across the frequency band selected and measured the peak emission value found at each frequency across the band.

Quasi-Peak

When the true peak values exceeded or were within 2 dB of the specification limit, quasi-peak measurements were taken using the quasi-peak detector.

Average

For certain frequencies, average measurements may be made using the spectrum analyzer/receiver. To make these measurements, the test engineer reduces the video bandwidth on the measuring device until the modulation of the signal is filtered out. At this point the measuring device is set into the linear mode and the scan time is reduced.