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Test Report: 2007 012630 C3 FCC

Project number: 2630

Applicant: Cardionet
1010 Second Ave. Suite 700
San Diego, CA 92101


Equipment Under Test (EUT): Wireless Modem

Model: C3 Base

FCC ID: FCC ID: QBF1010

In Accordance With: FCC Part 15 Subpart C, 15.247

Tested By: Nemko USA Inc.
11696 Sorrento Valley Road, Suite F
San Diego, CA 92121

Authorized By: 
Michael T. Krumweide, EMC Supervisor

Date: FEBRUARY 2, 2007

Total Number of Pages: 39

2.1. Section 1. Summary of Test Results

General

All measurements are traceable to national standards

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15; Subpart C. Radiated tests were conducted in accordance with ANSI C63.4-2003. Radiated emissions are made on an open area test site. A description of the test facility is on file with the FCC.

The assessment summary is as follows:

Apparatus Assessed: Wireless Modem Model C3 Base

Specification: FCC Part 15 Subpart C, 15.247

Date Received in Laboratory: January 29, 2007

Compliance Status: Complies

Exclusions: None

Non-compliances: None

Report Release History:

REVISION	DATE	COMMENTS
-	February 2, 2007	Prepared By: Ferdinand S. Custodio
-	February 2, 2007	Initial Release: Mike T. Krumweide

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025.

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TESTED BY: _____


Ferdinand S. Custodio, EMC Test Engineer

Date: February 2, 2007

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Section 2: Equipment Under Test

2.1 Product Identification

The Equipment Under Test was identified as follows:

Cardionet C3 Base Wireless Modem with Serial No. 80003



2.2 Samples Submitted for Assessment

The following samples of the apparatus have been submitted for type assessment:

Sample No.	Description	Serial No.
C3 Base	Cardionet Wireless Modem	80003
AC Adapter	100-240VAC/15VDC 1.0A Model #FW7555M/15	0714

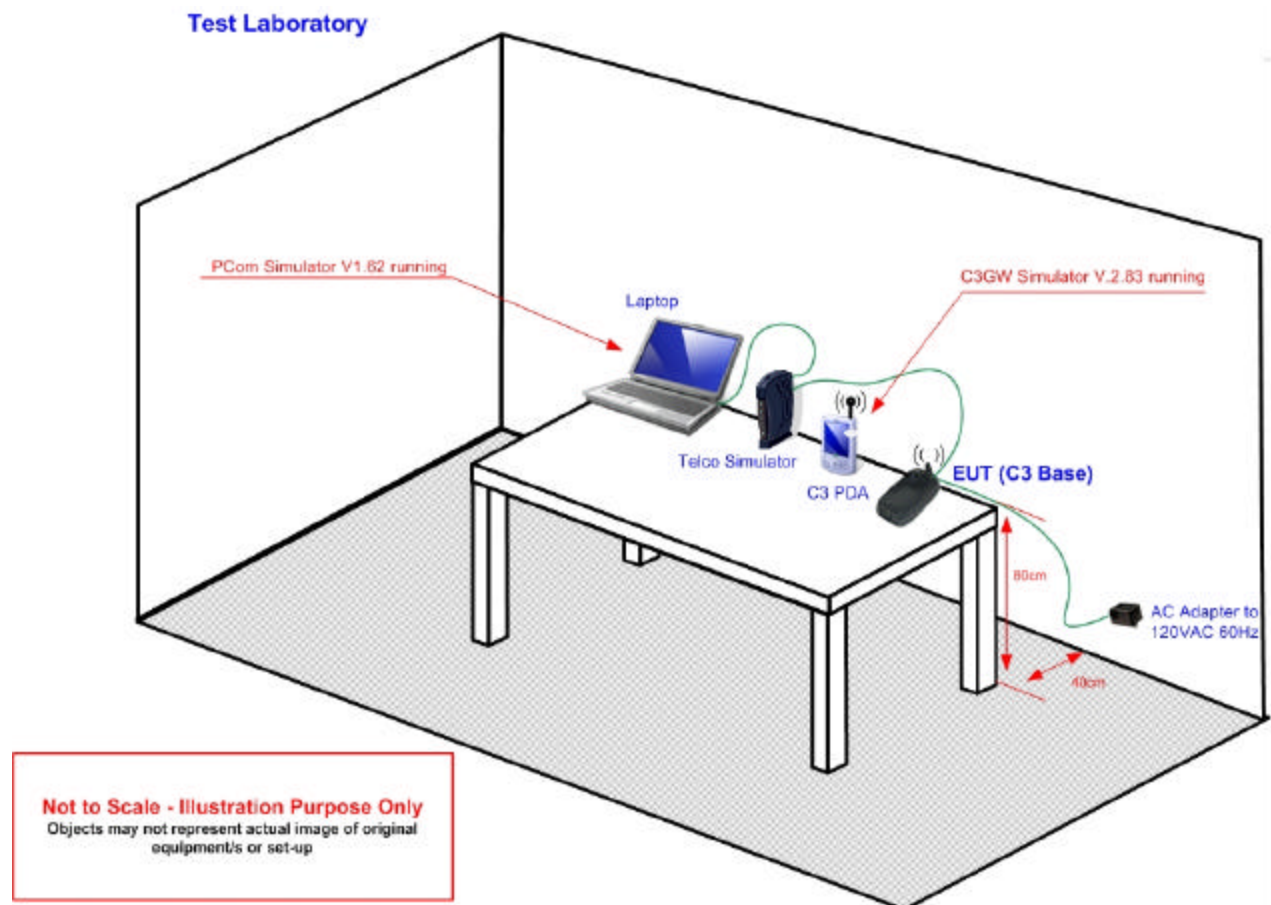
2.4 Theory of Operation

The C3 Base is a Wireless Modem used in heart monitoring system. The EUT is driven from the C3GW Simulator V2.83 sending random length data over the 900 MHz radio to the base which forwards the data to the PCom Simulator V1.62 on a laptop connected through a Telco TLS3A Line Simulator. PCom echoes the data back to the base which, in turn, returns it to the GW sim over 900 MHz and the data compared.

2.5 Technical Specifications of the EUT

Manufacturer:	Cardionet
Operating Frequency:	902.96-926.24 MHz in the 902-928 MHz Band
Rated Power:	0.0364 watt
Modulation:	FSK
Antenna Data:	No antenna data, custom design (0 dBi Gain)
Antenna Connector:	Integral
Power Source:	AC Adapter 15VDC Model # FW7555M/15 SN0714

2.6 General Test Configuration



Section 3: Test Conditions

3.1 Specifications

The apparatus was assessed against the following specifications:

FCC Part 15 Subpart C, 15.247

Operation within the bands 902-928 MHz, 2400-2483.5 MHz,
5725-5850 MHz and 24.0-24.25 GHz bands.

3.2 Deviations From Laboratory Test Procedures

No deviations from Laboratory Test Procedure

3.3 Test Environment

All tests were performed under the following environmental conditions:

Temperature range	:	15.6 – 21.6 °C
Humidity range	:	26 - 47 %
Pressure range	:	86 - 106 kPa
Power supply range	:	+/- 1% of rated voltages

3.4 Test Equipment

Nemko ID	Device	Manufacturer	Model	Serial Number	Cal Date	Cal Due Date
674	Spectrum Analyzer	HP	2882	2007A00910	2/15/06	2/15/07
675	Spectrum Analyzer Display	HP	85662A	2005A01282	2/15/06	2/15/07
533	Quasi-Peak Adapter	HP	85650A	2043A00211	4/12/2006	04/12/07
805	LISN	Solar	9348-50-R-24-BNC	992823	12/1/06	12/1/07
542	High Pass Filter	Solar	7801-5.0	838132	3/1/06	3/1/07
560	Transient Limiter	HP	11947A	2820A00502	12/15/06	12/15/07
833	Peak Power Meter	HP	HP8900D	2131A00861	3/31/06	3/31/07
117	Antenna	Electro-Metrics	BIA-25	2611	7/5/06	7/5/07
111	Antenna, LPA	EMCO	3146	1382	8/7/06	8/7/07
827	Preamplifier	Com -Power	PA-103	161032	verified	1/29/07
877	Antenna, DRG Horn, .7-18GHz	AH Systems	SAS-571	688	6/20/06	6/20/07
842	Preamp	NA	Nemko	NA	verified	1/29/07
897	Spectrum Analyzer	Rohde & Schwarz	FSP7	837620/009	8/11/06	8/11/07
835	Spectrum Analyzer	Rohde & Schwarz	RHDFSEK	829058/005	1/18/06	1/18/07

Section 4: Observations

4.1 Modifications Performed During Assessment

No modifications were performed during assessment.

4.2 Record Of Technical Judgements

No technical judgements were made during the assessment.

4.3 EUT Parameters Affecting Compliance

The user of the apparatus could not alter parameters that would affect compliance.

4.4 Test Deleted

No Tests were deleted from this assessment.

4.5 Additional Observations

There were no additional observations made during this assessment.

Section 5: Results Summary

This section contains the following:

FCC Part 15 Subpart C: Test Results

The column headed "Required" indicates whether the associated clauses were invoked for the apparatus under test. The following abbreviations are used:

- N No: not applicable / not relevant
Y Yes: Mandatory i.e. the apparatus shall conform to these test.
N/T Not Tested, mandatory but not assessed. (See section 4.4 Test deleted)

The results contained in this section are representative of the operation of the apparatus as originally submitted.

5.1 FCC Part 15 Subpart C: Test Results

Part 15	Test Description	Required	Result
15.247(b)(3)	Maximum peak output power of systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands	Y	Pass
15.209 (a)	Radiated Emissions within Restricted Bands	Y	Pass
15.247(a)(2)	Minimum 6dB RF Bandwidth	Y	Pass
15.247 (d)	Out-of-band Emissions	Y	Pass
15.247(e)	Power Spectral Density for Digitally Modulated Devices	Y	Pass
15.207	Transmitter and Receiver AC Power Lines Conducted Emission Limit	Y	Pass

Appendix A: Test Results

Clause 15.209(a) Radiated Emissions within Restricted Bands

(a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (uV/meter)	Measurement Distance (meter)
0.009-0.490	2400/F (kHz)	300
0.490-1.705	24000/F (kHz)	30
1.705-30.0	30	3
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Test Conditions:

Sample Number:	C3 Base	Temperature:	60.0°F
Date:	January 29, 2007	Humidity:	47 %
Modification State:	Lo/Mid/High Channels	Tester:	Ferdinand Custodio
		Laboratory:	SOATS

Test Results:

See Attached Plots.

Additional Observations:

The Spectrum was searched from 30MHz to the 10th Harmonic.

There are no emissions found that apply to the restricted bands defined in FCC Part 15 Subpart C, 15.205. The EUT was measured on three orthogonal axes.

Measurements below 1GHz were performed at 3m with a Quasi-Peak detector while Average detector was used above 1GHz.

Radiated Emissions 30 MHz to 1000 MHz



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Radiated Emissions Data

Complete X Job #: 2630-CAR Test #: 1
Preliminary Page 1 of 1

Client Name : CardioNet
EUT Name : Wireless Modem
EUT Model # : C3 Base
EUT Part # :
EUT Serial # :
EUT Config. : WL an LL Communications

Specification : CFR47 Part 15, Subpart B, Class B Reference :
Rod. Ant. #: NA Temp. (deg. C) : Date : 1/29/2007
Bicon Ant.#: 117 Humidity (%) : Time : 11:14:00 AM
Log Ant.#: 111 EUT Voltage : na Staff : MK
DRG Ant. # NA EUT Frequency : na
Dipole Ant.#: NA Phase: na
Cable#: SOATS Location: SOATS
Preamp#: 827 Distance: 3m
Spec An.#: 674 675
QP #: 533
PreSelect#: NA

Quasi-Peak RBW: 120 kHz
Video Bandwidth 120 kHz
Average RBW: 1 MHz
Video Bandwidth 10 Hz
Peak RBW: 1 MHz
Video Bandwidth 1 MHz

Measurements below 1 GHz are Quasi-Peak values, unless otherwise stated.

Measurements above 1 GHz are Average values, unless otherwise stated.

Meas. Freq. (MHz)	Ant. Pol. (H/V)	Atten. (dB)	Meter Reading (dBuV)	Antenna Factor (dB)	Path Loss (dB)	RF Gain (dB)	Corrected Reading (dBuV/m)	Spec. limit (dBuV/m)	CR/SL Diff. (dB)	Pass Fail Unc.	Comment
38.9	V		45.7	11.4	1.1	32.6	25.6	40.0	-14.4	Pass	
45.06	V		51.8	11.2	1.1	32.6	31.5	40.0	-8.5	Pass	
88.92	V		48.2	8.2	1.5	32.4	25.5	43.5	-18.0	Pass	
96.8	V		49.8	11.5	1.6	32.5	30.4	43.5	-13.1	Pass	
214.1	V		36.3	10.7	2.4	32.7	16.7	43.5	-26.8	Pass	
221.4	V		36.4	10.5	2.4	32.7	16.6	46.0	-29.4	Pass	

Radiated Emissions: To 10th Harmonic



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Radiated Emissions Data

Complete	<u>YES</u>	Job # :	<u>1</u>	Test # :	<u>1</u>
Preliminary		Page	<u>1</u>	of	<u>1</u>
Client Name :	<u>CardioNet</u>				
EUT Name :	<u>Wireless Modem</u>				
EUT Model # :	<u>C3 Base</u>				
EUT ANTENNA Part # :					
EUT Serial # :					
EUT Config. :	<u>Transmit</u>				
	<u>FCC Part 15.247</u>				
Specification :	<u>FCC Part 15.209 (a)</u>				
Rod. Ant. # :	<u>NA</u>	Temp. (deg. C) :		Date :	<u>1/29/2006</u>
Bicon Ant. # :	<u>N/A</u>	Humidity (%) :		Time :	
Log Ant. # :	<u>N/A</u>	EUT Voltage :	<u>120</u>	Staff :	<u>Mike Krumweide</u>
DRG Ant. # :	<u>877</u>	EUT Frequency :	<u>60</u>	Photo ID :	
Dipole Ant. # :	<u>NA</u>	Phase :	<u>1</u>	Peak Res Bandwidth:	<u>1 MHz</u>
Cable# :	<u>60ft</u>	Location :	<u>SOATS</u>	Peak Video Bandwidth:	<u>1 MHz</u>
Preamplifier :	<u>842</u>	Distance :	<u>3 m</u>	AVE Res Bandwidth:	<u>1 MHz</u>
Spec An. # :	<u>835</u>	Duty Cycle Factor	<u>N/A</u>	AVE Video Bandwidth:	<u>10 Hz</u>
QP # :	<u>NA</u>				

Meas. Freq. (MHz)	Vertical (dBuV)		Horizontal (dBuV)		CF (db)	Max Level (dBuV/m)		Spec. Limit (dBuV/m)		Margin dB		EUT Rotation	Ant. Height	Pass Fail Unc.	Comment
	pk	av	pk	av		pk	av	pk	av	pk	av				
LOW															
1805.94	50.8	39.9	48.8	36.1	-19.0	31.8	20.9	74.0	54.0	-42.2	-33.1			Pass	
2708.91	44.1	31.5	44.1	31.5	-11.5	32.6	20.0	74.0	54.0	-41.4	-34.0			Pass	Noise floor
MID															
1828.48	50.9	39.5	50.5	38.3	-19.0	31.9	20.5	74.0	54.0	-42.1	-33.5			Pass	
2742.70	42.5	28.5	42.5	28.5	-11.5	31.0	17.0	74.0	54.0	-43.0	-37.0			Pass	Noise floor
HIGH															
1852.50	52.3	42.5	52.4	42.5	-19.0	33.4	23.5	74.0	54.0	-40.6	-30.5			Pass	
2778.79	40.8	27.8	40.8	27.8	-11.5	29.3	16.3	74.0	54.0	-44.7	-37.7			Pass	Noise floor

Clause 15.247(a)(2) Minimum 6dB RF Bandwidth

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6dB bandwidth shall be at least 500 kHz.

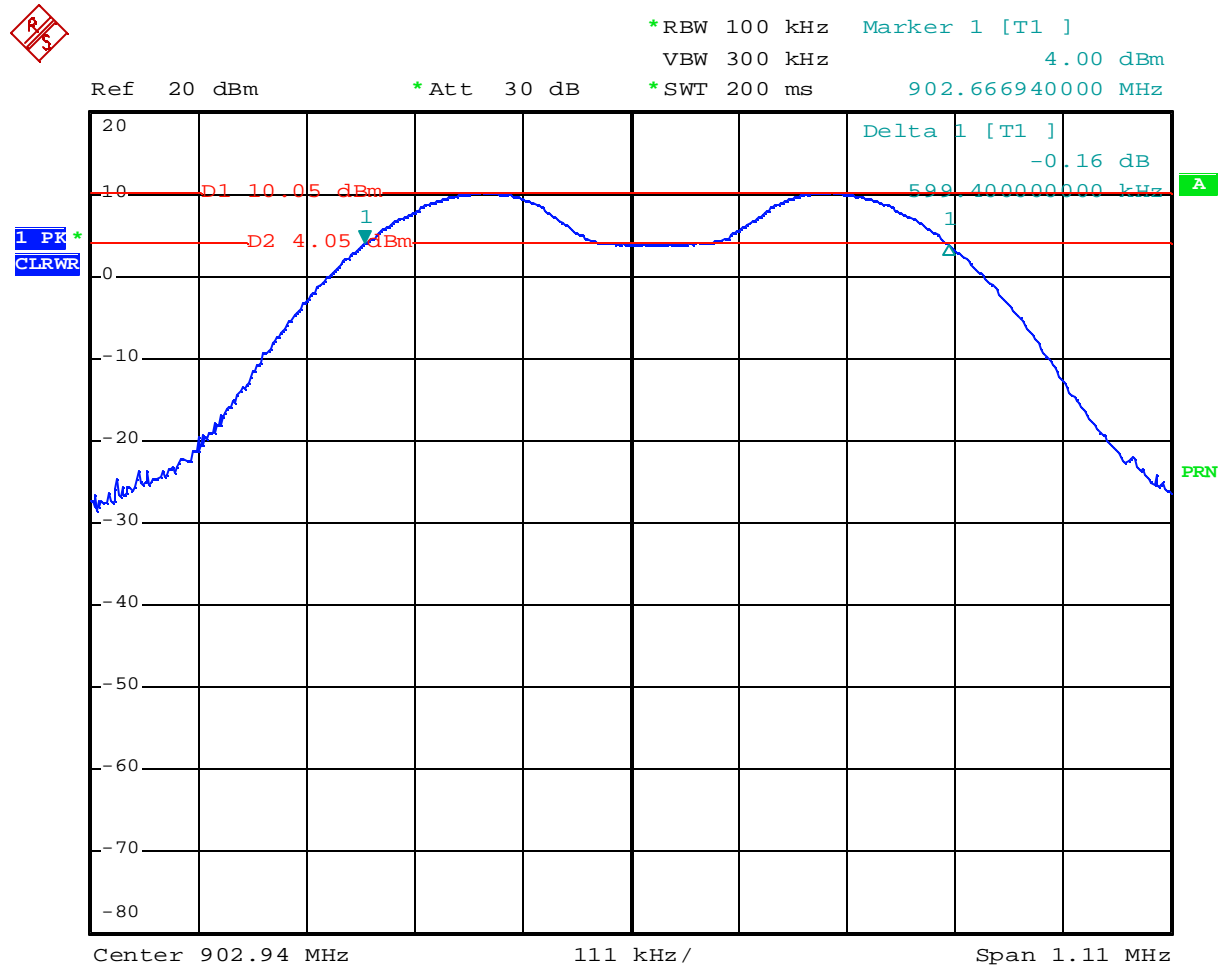
Test Conditions:

Sample Number:	C3 Base	Temperature:	69°F
Date:	February 1, 2007	Humidity:	32%
Modification State:	Lo/Mid/High Channels	Tester:	Ferdinand Custodio
		Laboratory:	Nemko

Test Results:**6dB Bandwidth:**

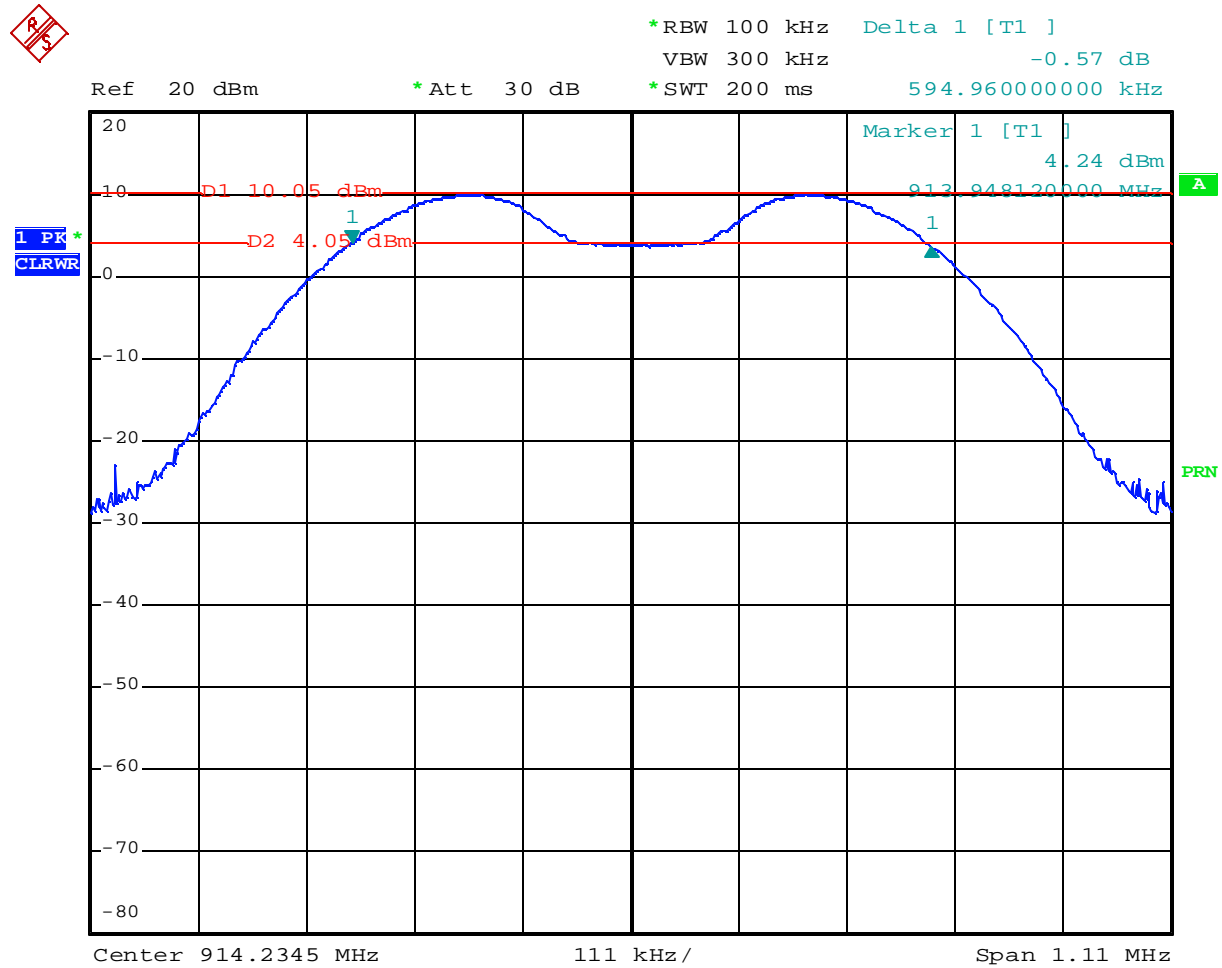
Installed SMA connector into the optional conducted port on the board. This port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 6 dB lower than PEAK level. The 6 dB bandwidth was determined from where the channel output spectrum intersected the display line.

Channel Range	Max. 6 dB Bandwidth (kHz)
Low (902.96 MHz)	599.40
Mid (914.2 MHz)	594.96
High (926.24 MHz)	590.92



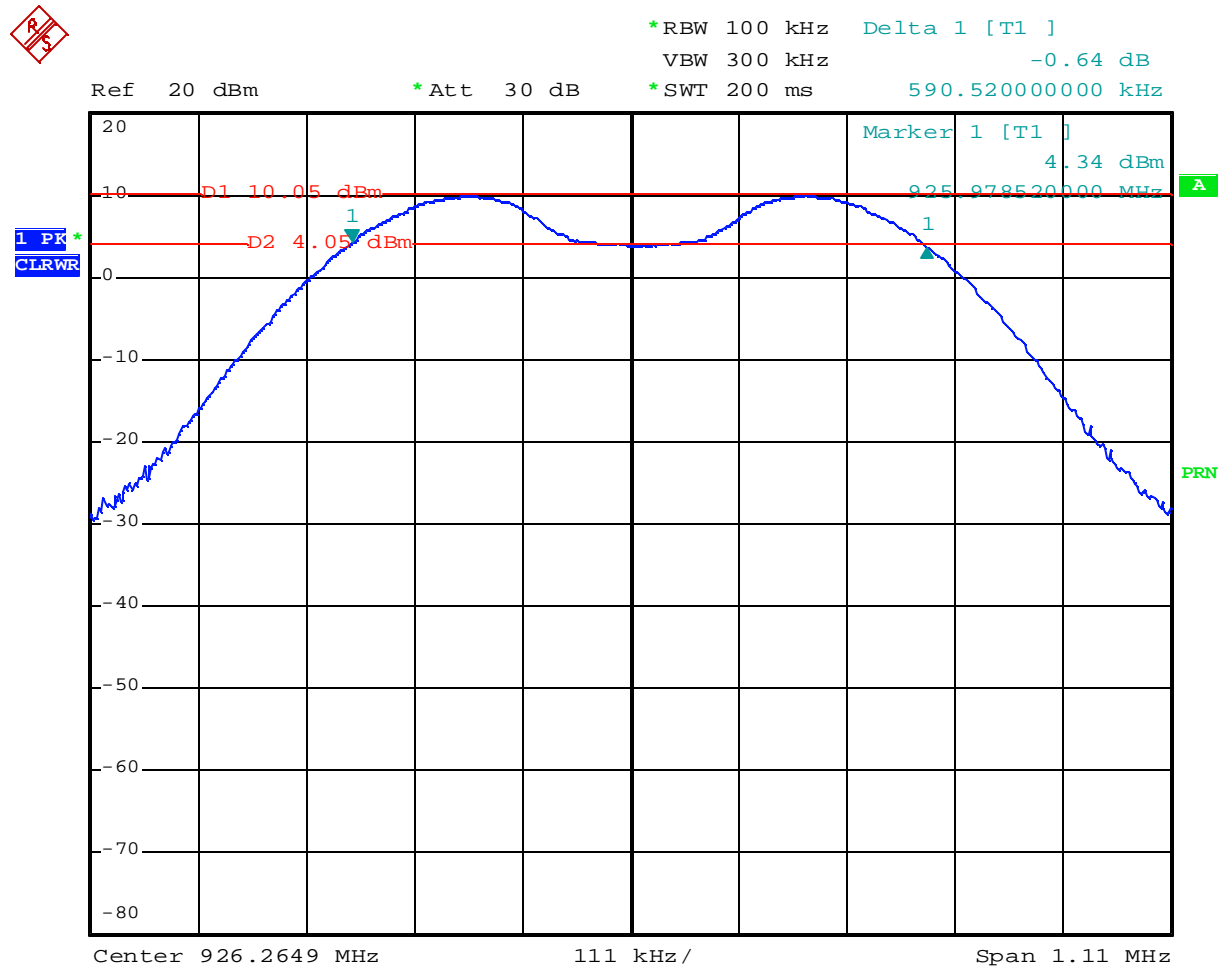
Date: 1.FEB.2007 12:36:02

Low Channel 902.96 MHz



Date: 1.FEB.2007 12:38:24

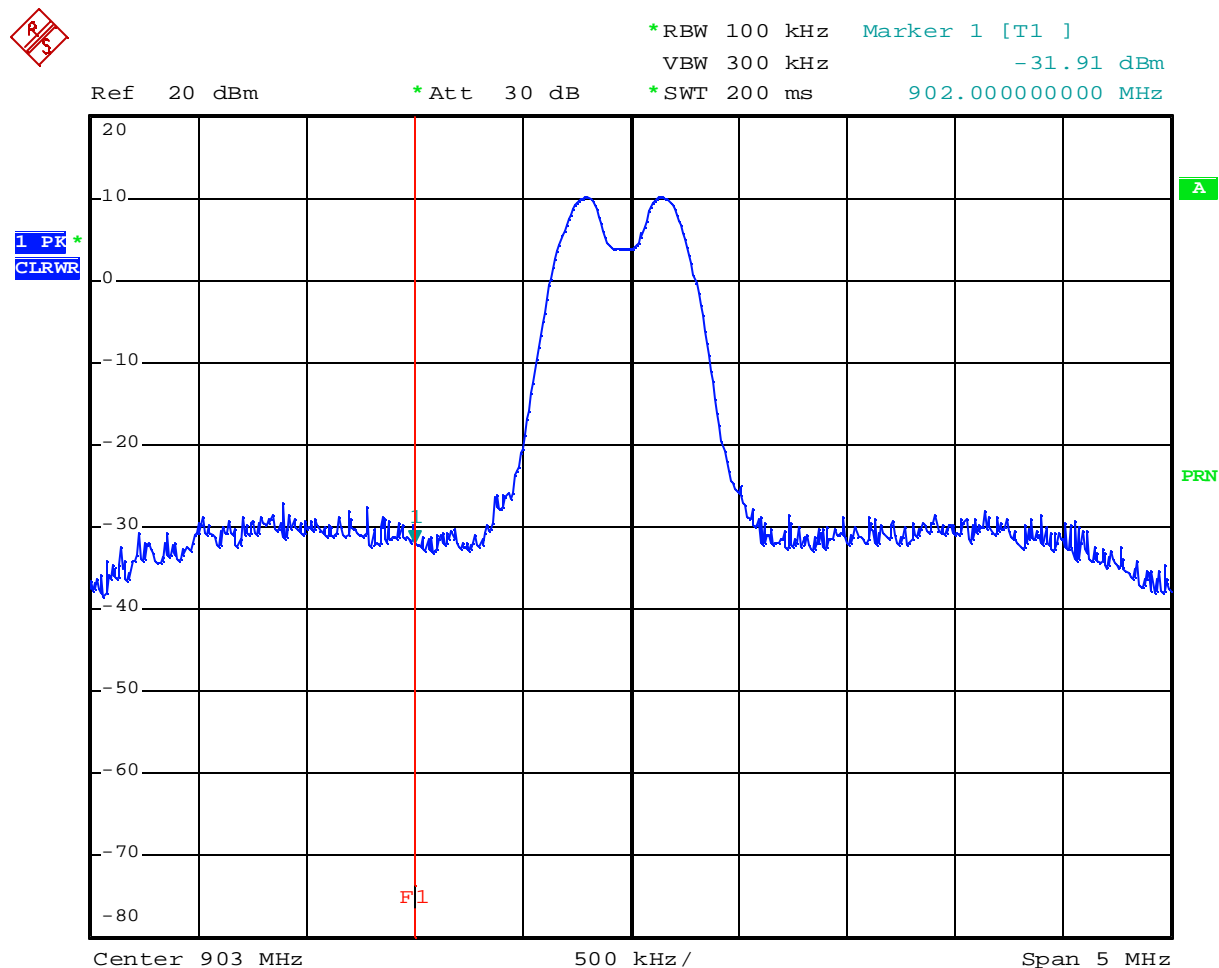
Mid Channel 914.2 MHz



Date: 1.FEB.2007 12:39:52

High Channel 926.24 MHz

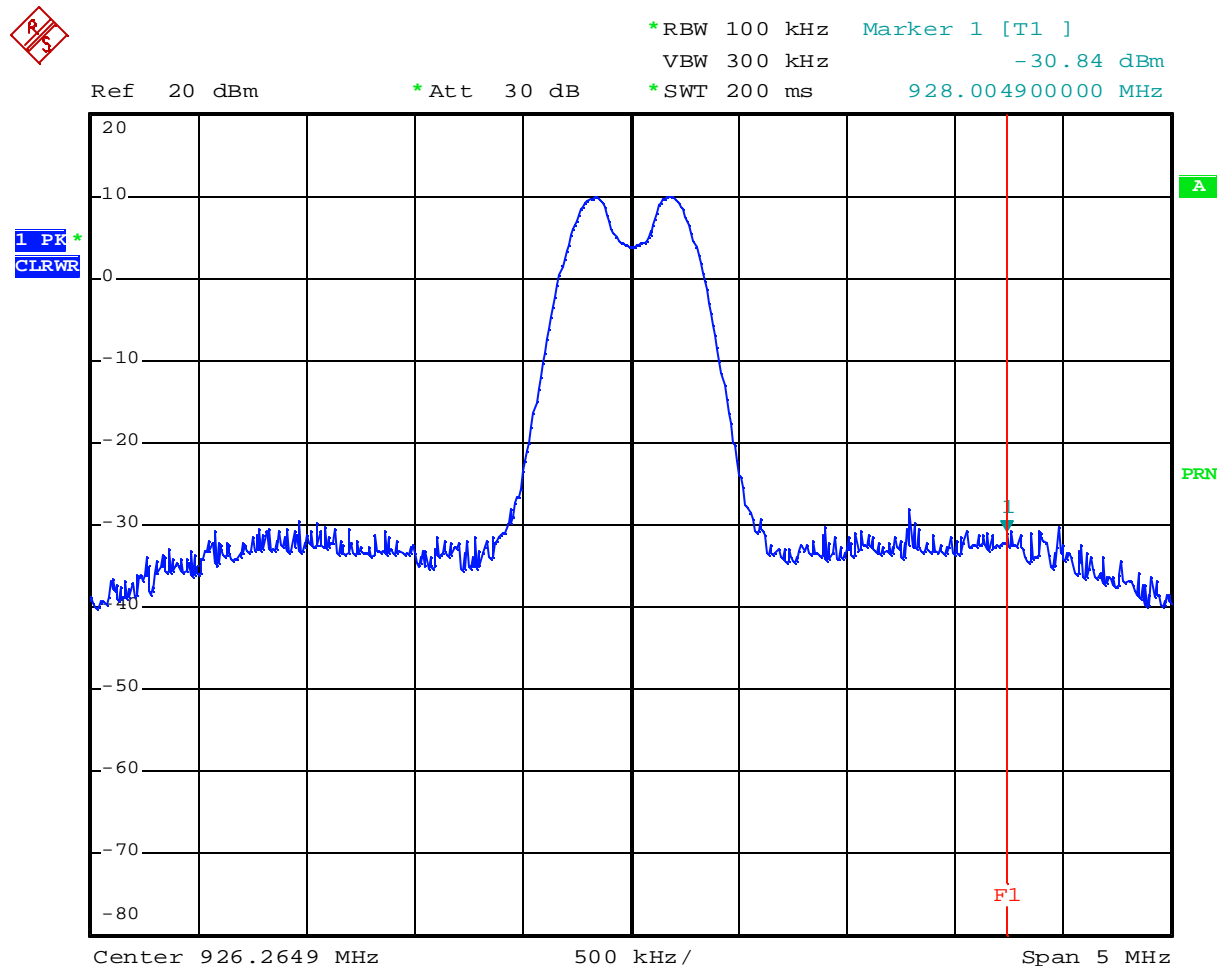
Bandedge Measurements



Date: 1.FEB.2007 12:52:09

Low Channel 902.96 MHz

10.05dBm -(-31.91dB) = 41.96 dBc
Minimum is 20.0 dBc



Date: 1.FEB.2007 12:50:47

High Channel 9214.24 MHz

10.05dBm -(-30.84dB) = 40.89 dBc
Minimum is 20.0 dBc

Clause 15.247(b)(3) Maximum peak output power of systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signalling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Conditions:

Sample Number:	C3 Base	Temperature:	69°F
Date:	January 30, 2007	Humidity:	32%
Modification State:	Lo/Mid/High Channels	Tester:	Ferdinand Custodio
		Laboratory:	Nemko

Test Results:**Conducted Output Power:**

Installed SMA connector into the optional conducted port on the board. This port was connected to the input of a power meter and output power was measured directly. Input voltage to the EUT was varied from 12.75VDC, 15VDC (nominal) and 17.25VDC during these measurements, however no change in the output power was observed during voltage variations.

Channel	Frequency	Measured Output Power (W)
0	902.96 MHz	36.4 mW
15	914.2 MHz	35.9 mW
31	926.24 MHz	35.2 mW

$$\begin{aligned}\text{EIRP} &= 10\log(0.0364) + 30 + \text{Ant. Gain} \\ &= 15.6\text{dBm} + 0\text{dBi} \\ &= 15.6\text{dBm}\end{aligned}$$

15.247(b)(4) limit of 36 dBm does not apply as the antenna is omni-directional.

Clause 15.247(d) Spurious Emissions (RF Antenna Conducted Test)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Conditions:

Sample Number:	NX01	Temperature:	71°F
Date:	December 18, 2006	Humidity:	30%
Modification State:	Lo/Mid/High Channels	Tester:	Ferdinand Custodio
		Laboratory:	Nemko

Test Results:

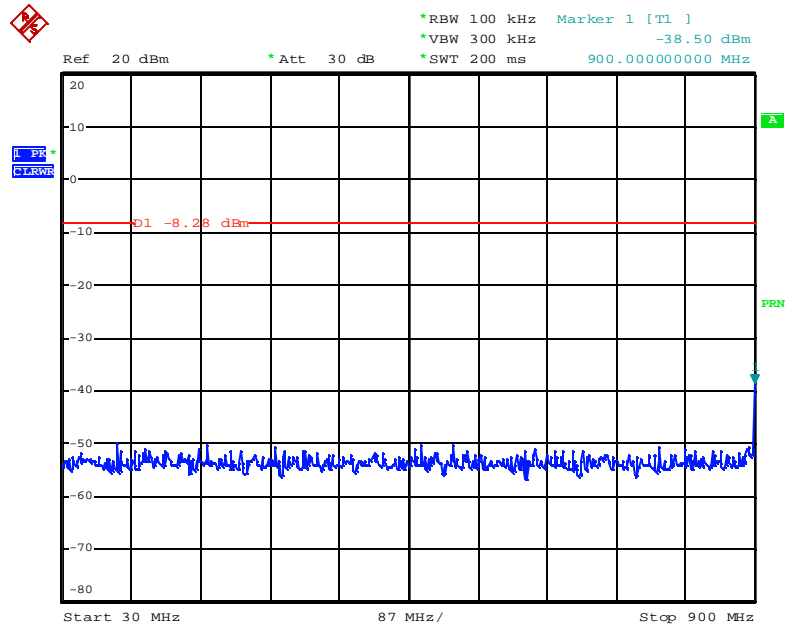
See Attached Plots.

The transmitter output was connected to the spectrum analyzer via a low loss cable. RBW was set to 100kHz and VBW to 300kHz with suitable frequency span and appropriate sweep time.

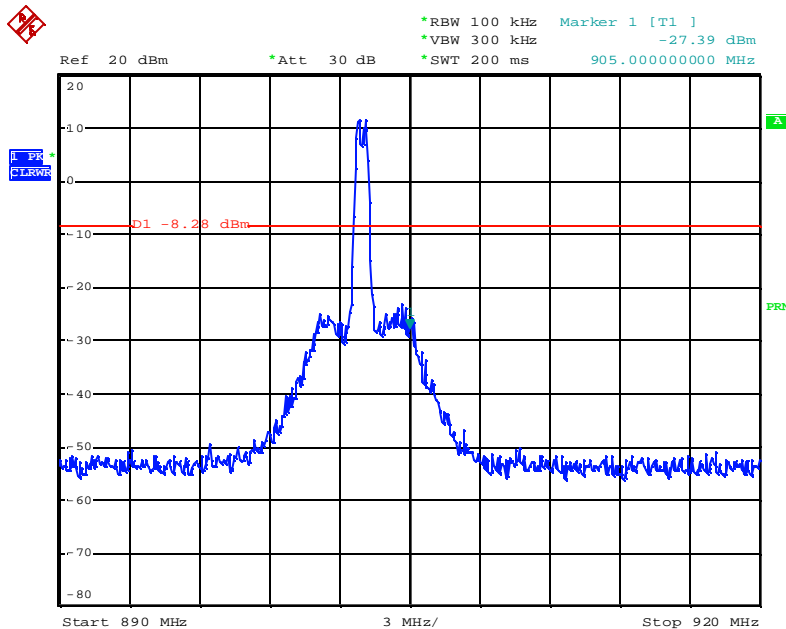
For this test, the highest maximum peak output power was used as reference. Using Low Channel reading of 36.4mW, a limit of -4.4dBm was utilized (the display line of - 8.28 dBm is used for reference only). The EUT was investigated for spurious emission on Low, Mid and High channels .

$$\begin{aligned}\text{dBm} &= 10\log(0.0364) + 30 \\ &= 15.61 \text{ dBm} \\ \text{Limit} &= 15.61 - 20 \\ &= -4.4 \text{ dBm}\end{aligned}$$

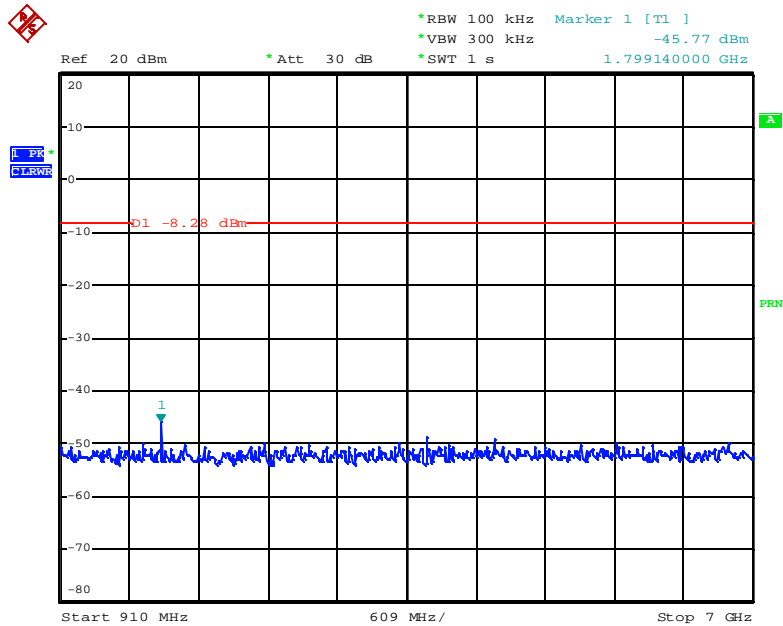
Low Channel (902.96 MHz)



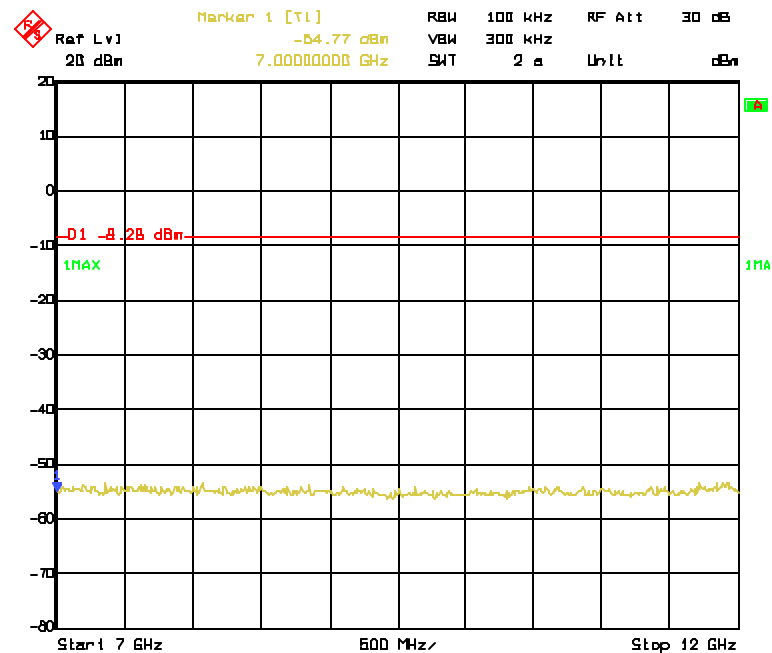
Date: 30.JAN.2007 15:40:14



Date: 30.JAN.2007 15:49:22

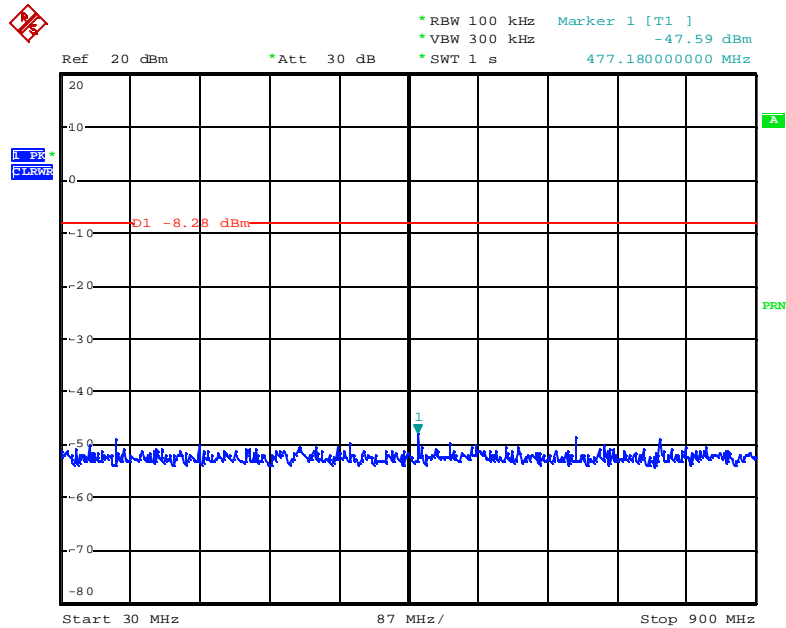


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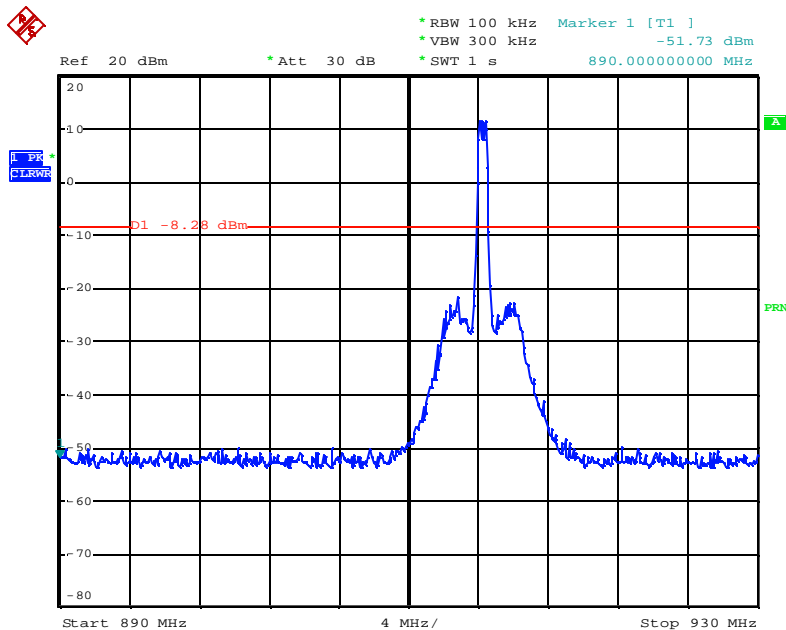


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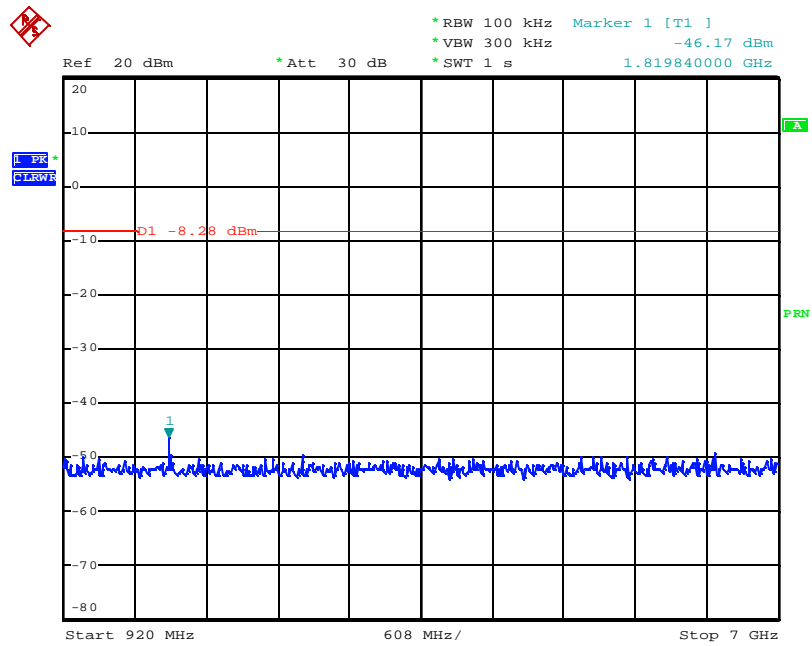
Mid Channel (914.2 MHz)



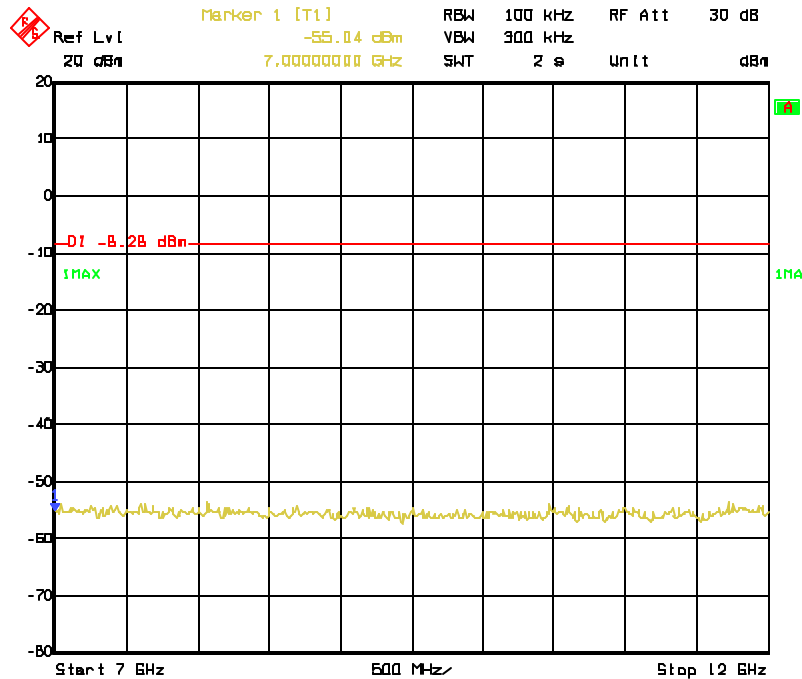
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Date: 30.JAN.2007 15:52:39

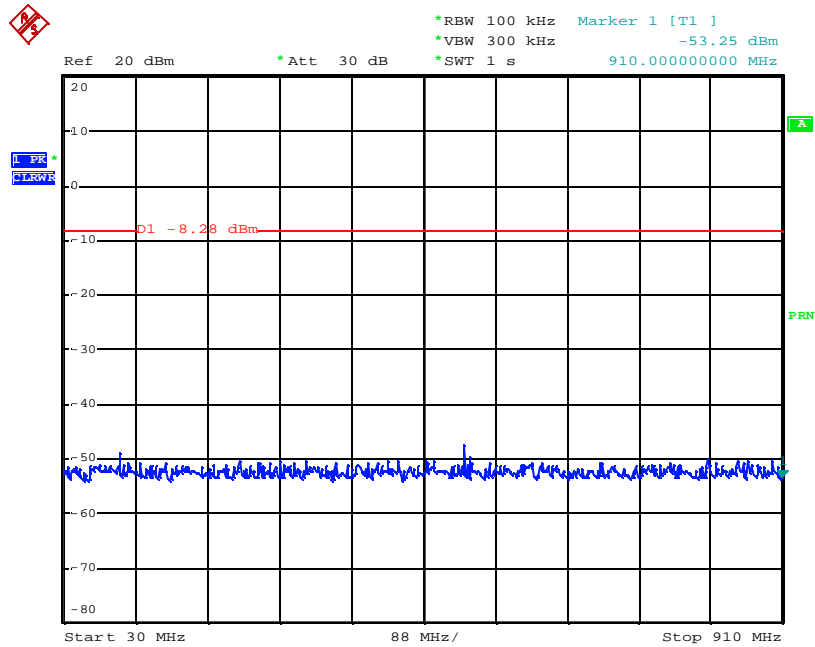


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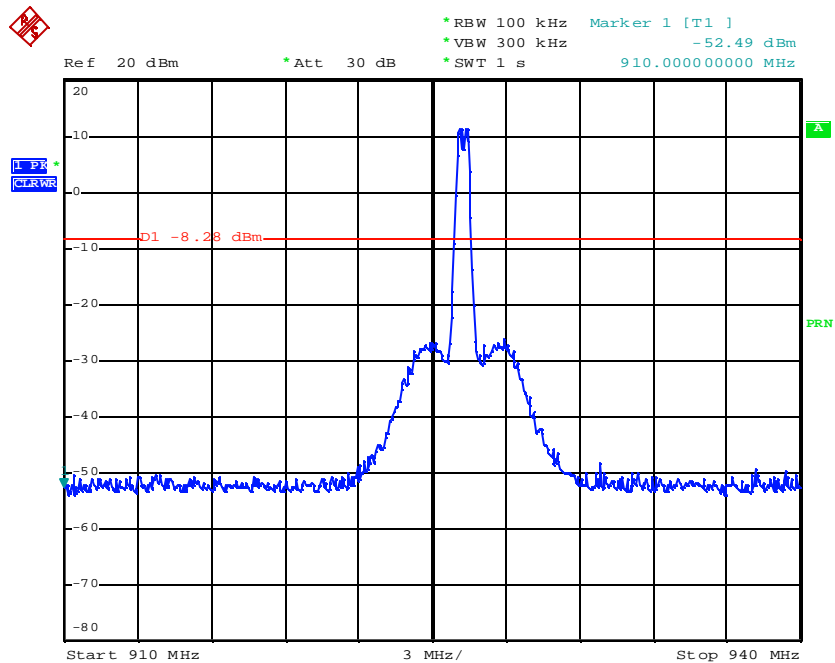


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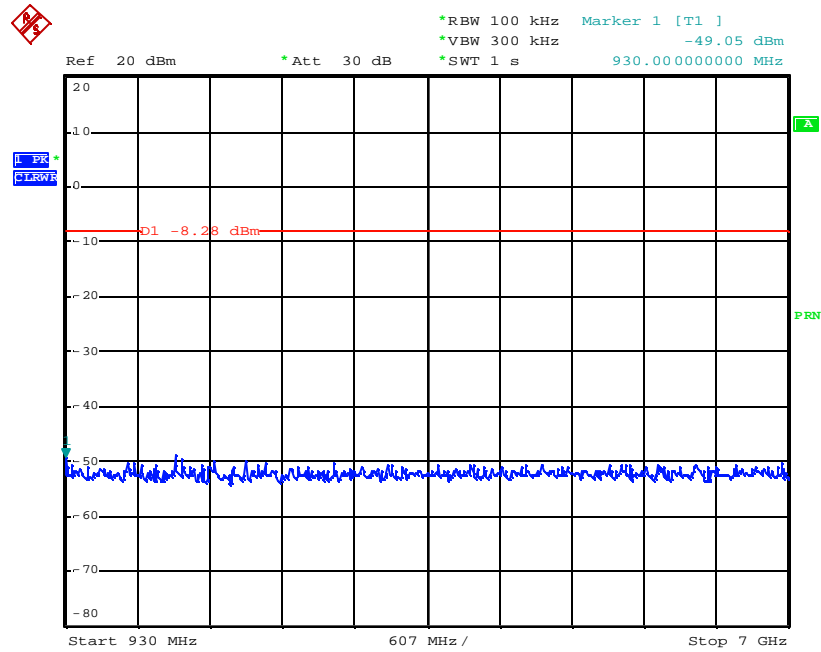
High Channel (926.24 MHz)



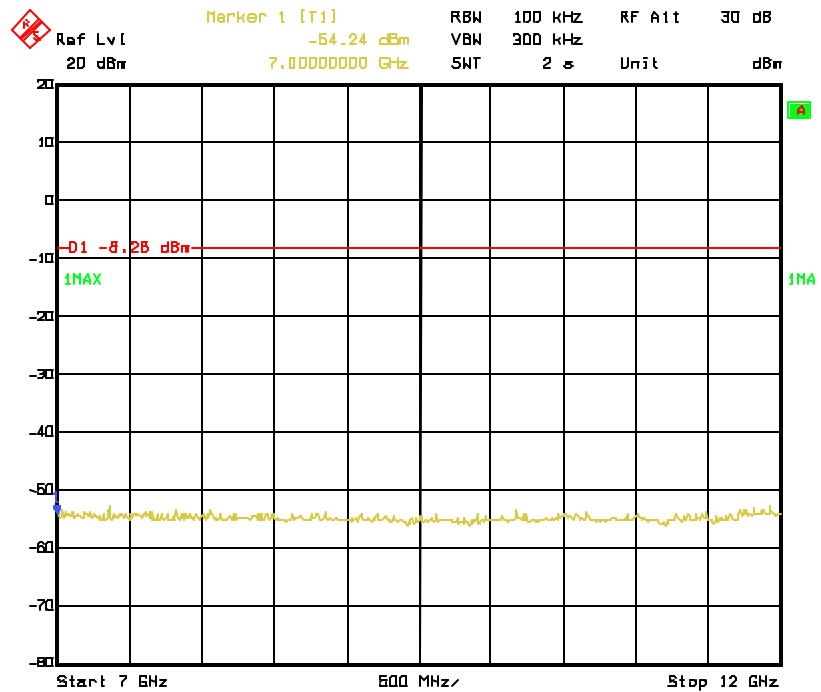
Date: 30.JAN.2007 15:54:41



Date: 30.JAN.2007 15:55:44



Date: 30.JAN.2007 15:56:20



Date: 30.JAN.2007 15:47:53

Clause 15.247(e) Power Spectral Density for Digitally Modulated Devices

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

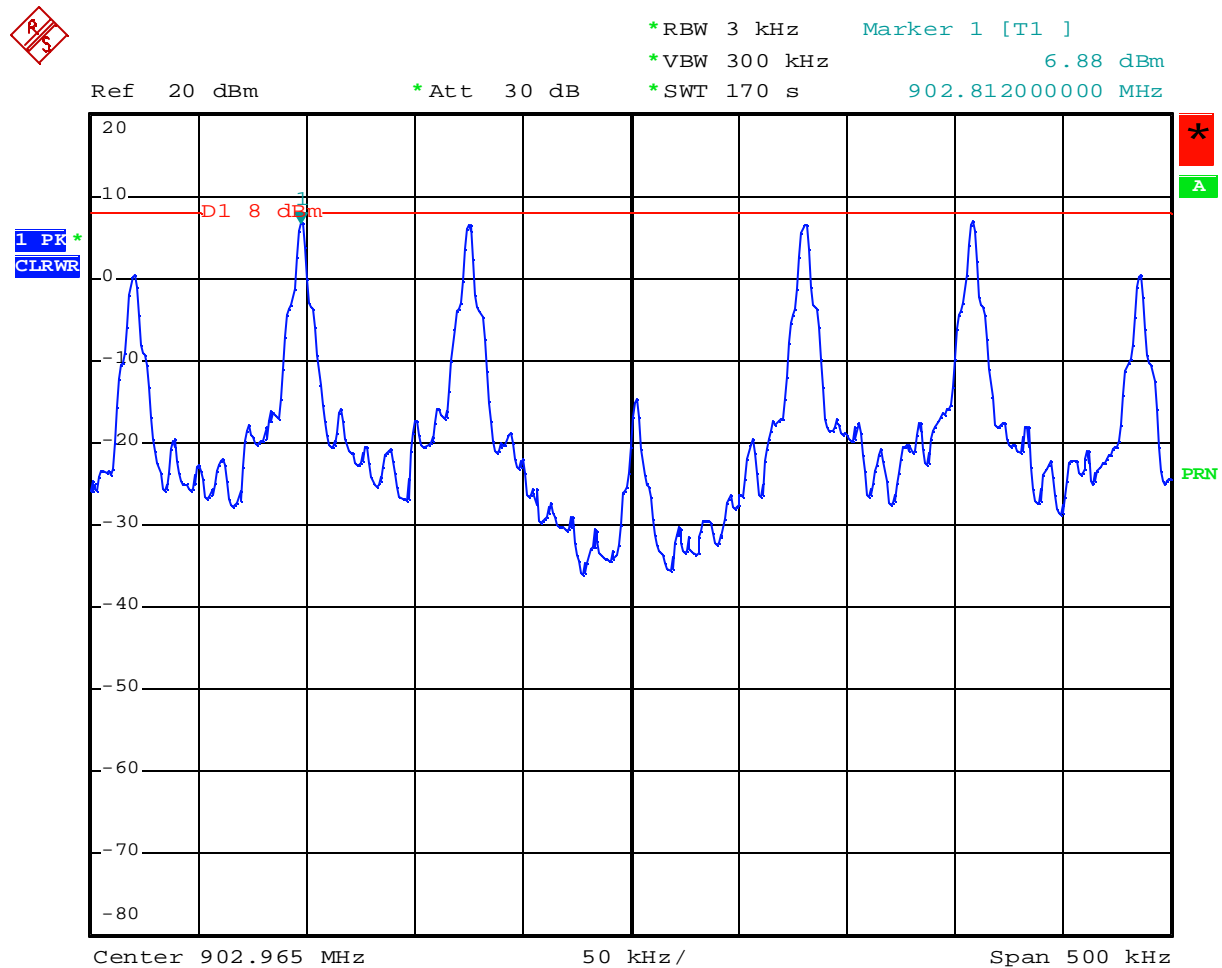
Test Conditions:

Sample Number:	C3 Base	Temperature:	69°F
Date:	January 30, 2007	Humidity:	32%
Modification State:	Lo/Mid/High Channels	Tester:	Ferdinand Custodio
		Laboratory:	Nemko

Test Results:

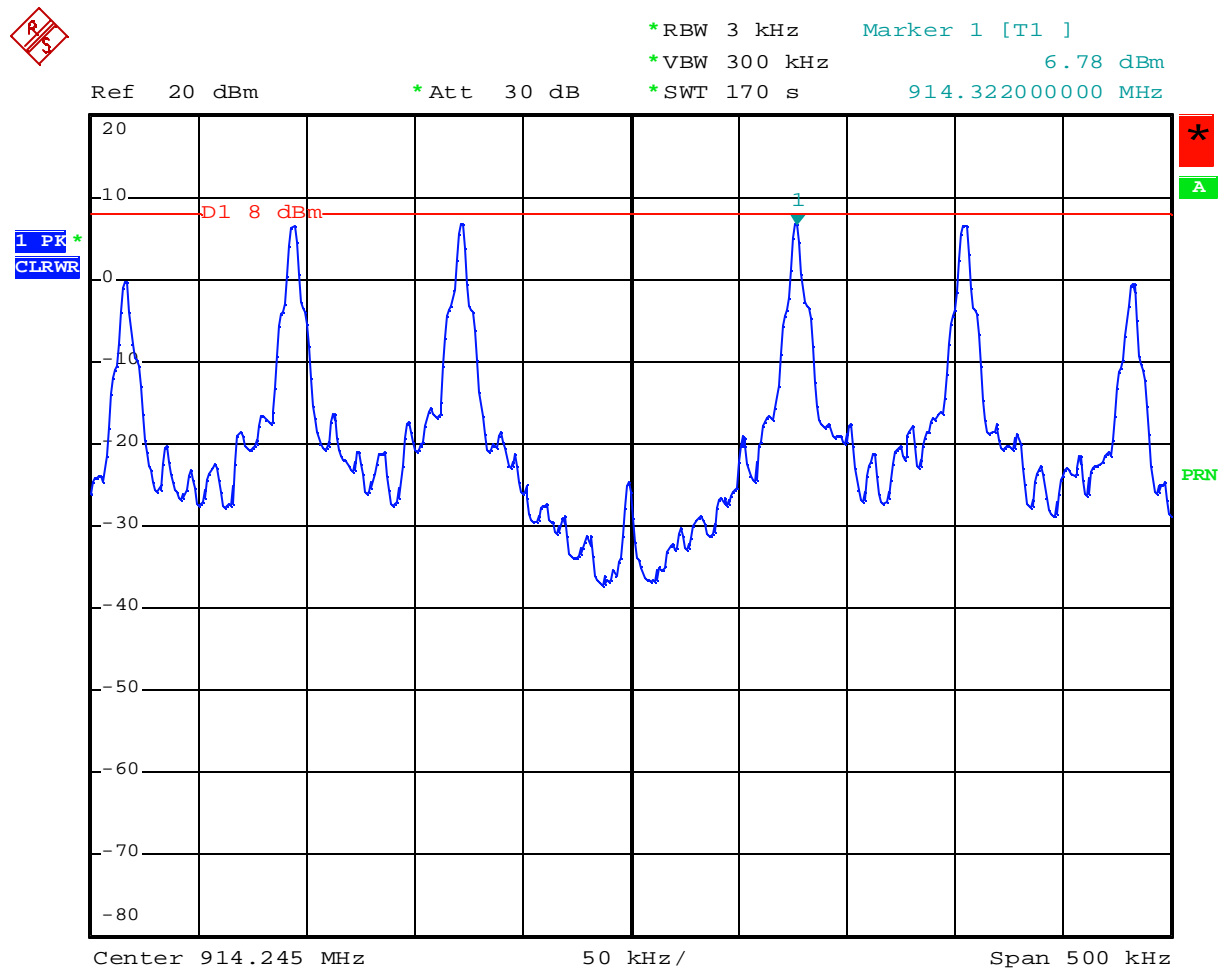
The transmitter output was connected to the spectrum analyzer, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 300kHz VBW, set sweep time=span/3kHz for a full response of the mixer in the spectrum analyzer.

Channel	Channel Frequency (MHz)	RF Power Level in 3KHz BW	Maximum Limit (dBm)	PASS/FAIL
LO	902.96	6.88	8	Pass
MID	914.2	6.78	8	Pass
HIGH	926.24	6.97	8	Pass



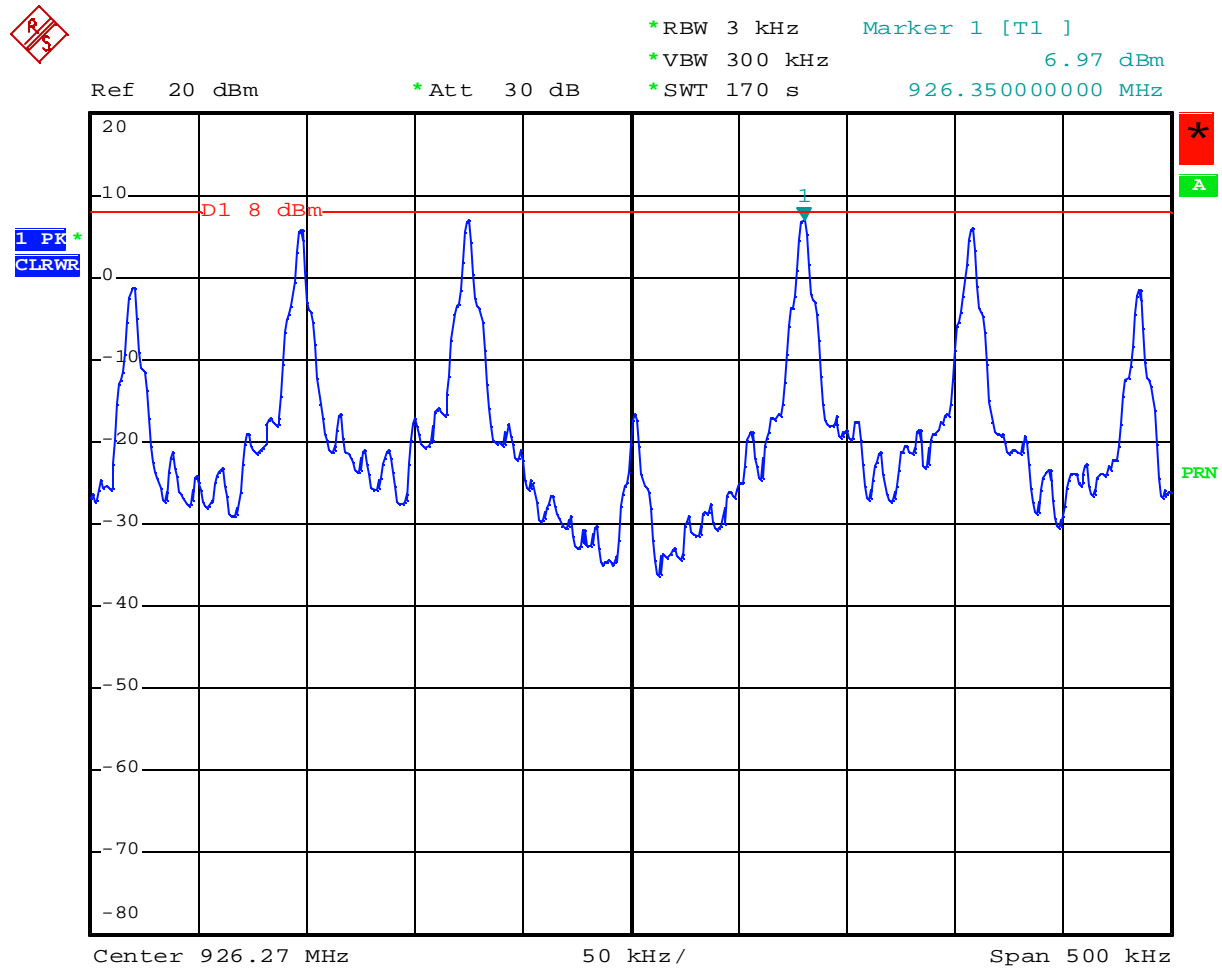
Date: 30.JAN.2007 16:33:00

Low Channel 902.96 MHz



Date: 30.JAN.2007 16:37:13

Mid Channel 914.2 MHz



Date: 30.JAN.2007 16:28:37

High Channel 9214.24 MHz

Section 15.207 Power line Conducted Emissions

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

AC Power Lines Conducted Emissions Limits

Frequency range (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

*Decreases with the logarithm of the frequency

Test Conditions:

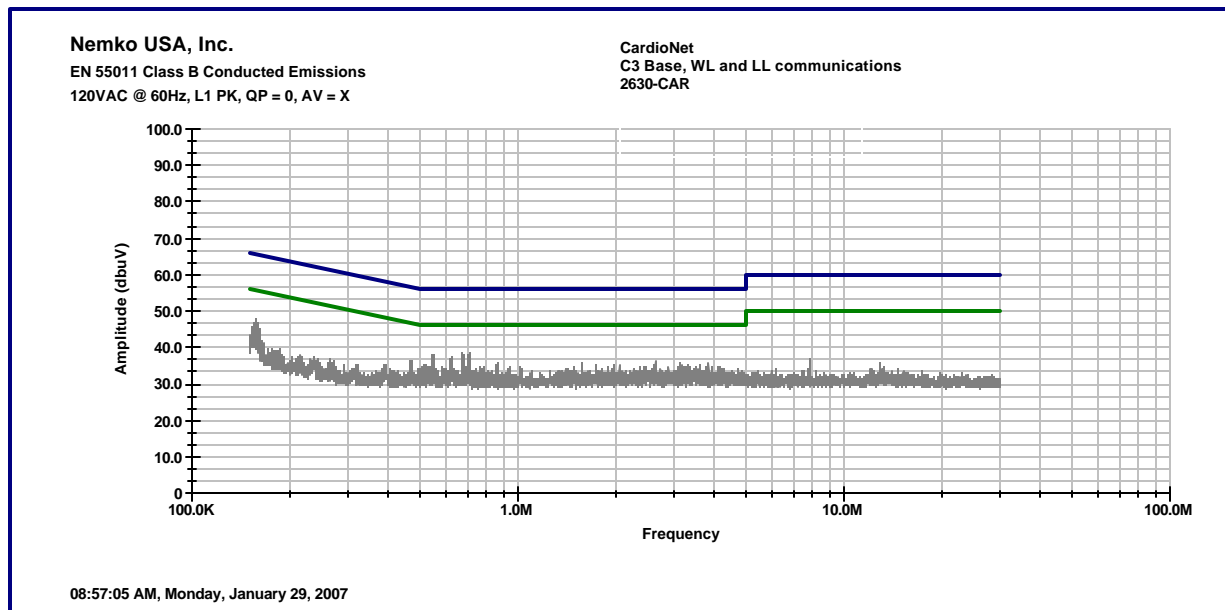
Sample Number:	C3 Base	Temperature:	69°F
Date:	January 30, 2007	Humidity:	26 %
Modification State:	Transmit Mode	Tester:	Mike Krumweide
		Laboratory:	Nemko Shield Room 2

Test Results:

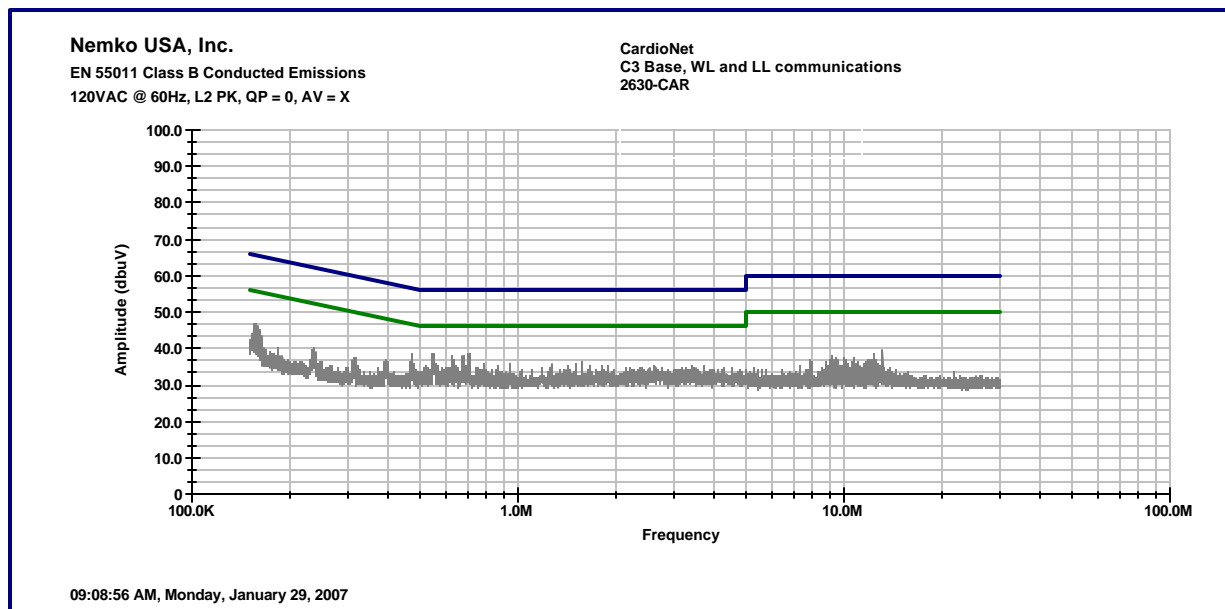
See Attached Plots.

Notes:

Test was done using the supplied AC Adapter (100-240VAC/15VDC 1.0A, FW7555M/15 SN0714)



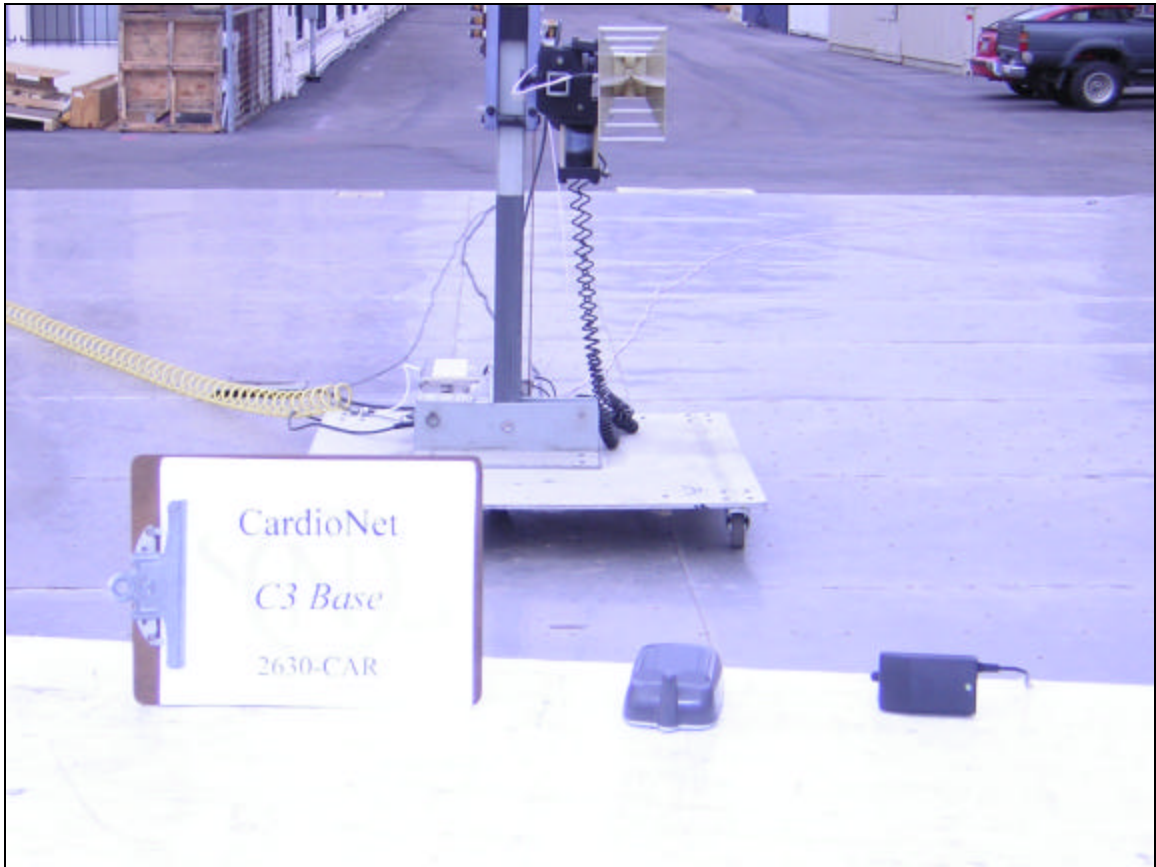
Line 1



Line 2

2.1. Appendix B: Setup Photographs

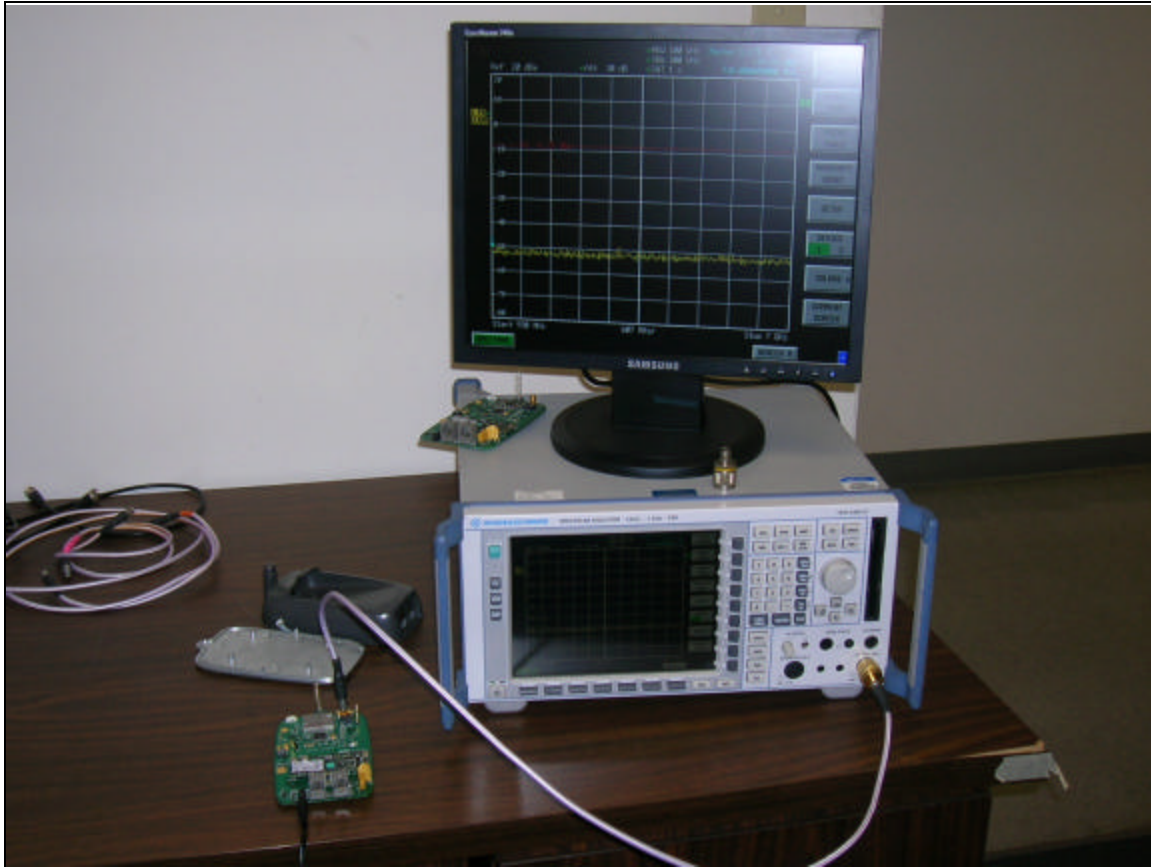
Radiated and Spurious Emissions Setup:



Conducted Emissions Setup:

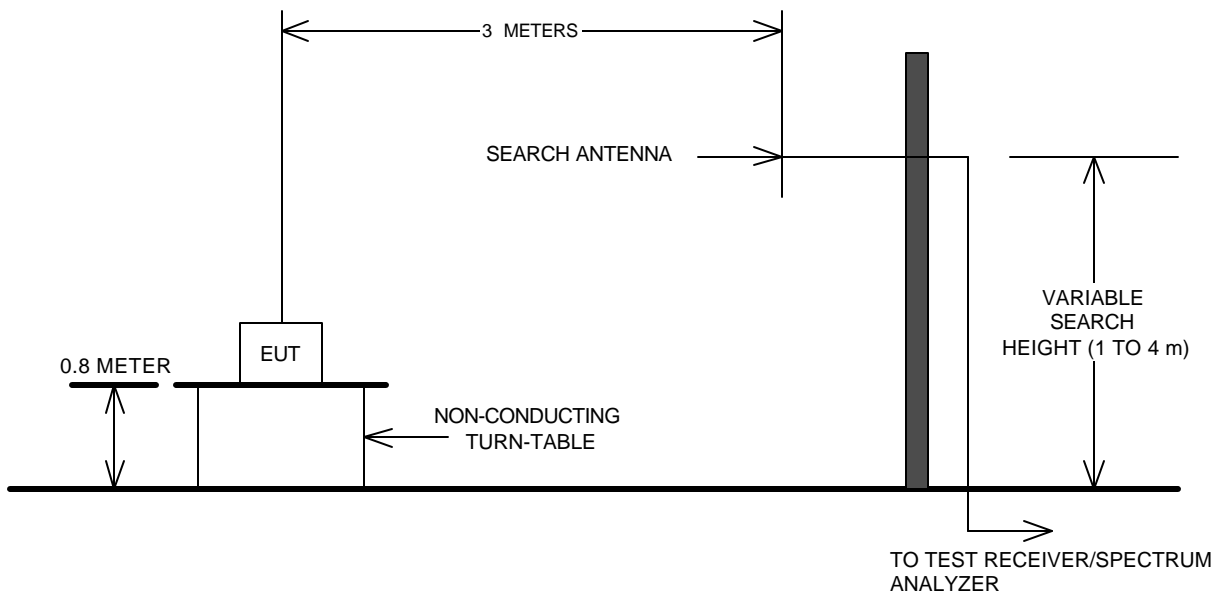


Conducted RF Emissions Setup:



2.1. Appendix C: Block Diagram of Test Setups

Test Site For Radiated Emissions



Conducted Emissions

