

Precor, Inc.

XTV-9TM

June 01, 2007

Report No. PRCR0082

Report Prepared By



www.nwemc.com

1-888-EMI-CERT

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EMC Test Report

Certificate of Test
Issue Date: June 01, 2007
Precor, Inc.
Model: XTV-9TM

Emissions				
Test Description	Specification	Test Method	Pass	Fail
Conducted Emissions	FCC 15.207:2006 Class B	ANSI C63.4:2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Field Strength of Fundamental	FCC 15.249:2006	ANSI C63.4:2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Radiated Spurious Emissions	FCC 15.249:2006	ANSI C63.4:2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Modifications made to the product

See the Modifications section of this report

Test Facility

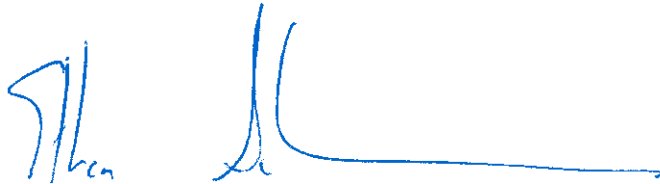
The measurement facility used to collect the data is located at:

Northwest EMC, Inc.
22975 NW Evergreen Parkway, Suite 400
Hillsboro, OR 97124

Phone: (503) 844-4066 Fax: 844-3826

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada.

Approved By:



Ethan Schoonover, Sultan Lab Manager

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government of the United States of America.

Product compliance is the responsibility of the client, therefore the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. This Report may only be duplicated in its entirety. The results of this test pertain only to the sample(s) tested, the specific description is noted in each of the individual sections of the test report supporting this certificate of test.

Revision Number	Description	Date	Page Number
00	None		

FCC: Accredited by NVLAP for performance of FCC radio, digital, and ISM device testing. Our Open Area Test Sites, certification chambers, and conducted measurement facilities have been fully described in reports filed with the FCC and accepted by the FCC in letters maintained in our files. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by the FCC as a Telecommunications Certification Body (TCB). This allows Northwest EMC to certify transmitters to FCC specifications in accordance with 47 CFR 2.960 and 2.962.



NVLAP: Northwest EMC, Inc. is accredited under the United States Department of Commerce, National Institute of Standards and Technology, and National Voluntary Laboratory Accreditation Program for satisfactory compliance with the requirements of ISO/IEC 17025 for Testing Laboratories. The NVLAP accreditation encompasses Electromagnetic Compatibility Testing in accordance with the European Union EMC Directive 89/336/EEC, ANSI C63.4, MIL-STD 461E, DO-160D and SAE J1113. Additionally, Northwest EMC is accredited by NVLAP to perform radio testing in accordance with the European Union R&TTE Directive 1999/5/EEC, the requirements of FCC, and the RSS radio standards for Industry Canada.



NVLAP LAB CODE 200629-0
 NVLAP LAB CODE 200630-0
 NVLAP LAB CODE 200676-0
 NVLAP LAB CODE 200761-0

Industry Canada: Accredited by NVLAP for performance of Industry Canada RSS and ICES testing. Our Open Area Test Sites and certification chambers comply with RSS 212, Issue 1 (Provisional) and have been filed with Industry Canada and accepted. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by NIST and recognized by Industry Canada as a Certification Body (CB) per the APEC Mutual Recognition Arrangement (MRA). This allows Northwest EMC to certify transmitters to Industry Canada technical requirements.



CAB: Designated by NIST and validated by the European Commission as a Conformity Assessment Body (CAB) to conduct tests and approve products to the EMC directive and transmitters to the R&TTE directive, as described in the U.S. - EU Mutual Recognition Agreement.



TÜV Product Service: Included in TÜV Product Service Group's Listing of Recognized Laboratories. It qualifies in connection with the TÜV Certification after Recognition of Agent's Testing Program for the product categories and/or standards shown in TÜV's current Listing of CARAT Laboratories, available from TÜV. A certificate was issued to represent that this laboratory continues to meet TÜV's CARAT Program requirements. Certificate No. USA0604C.



TÜV Rheinland: Authorized to carryout EMC tests by order and under supervision of TÜV Rheinland. This authorization is based on "Conditions for EMC-Subcontractors" of November 1992.



NEMKO: Assessed and accredited by NEMKO (Norwegian testing and certification body) for European emissions and immunity testing. As a result of NEMKO's laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification (Authorization No. ELA 119).



Australia/New Zealand: The National Association of Testing Authorities (NATA), Australia has been appointed by the ACA as an accreditation body to accredit test laboratories and competent bodies for EMC standards. Accredited test reports or assessments by competent bodies must carry the NATA logo. Test reports made by an overseas laboratory that has been accredited for the relevant standards by an overseas accreditation body that has a Mutual Recognition Agreement (MRA) with NATA are also accepted as technical grounds for product conformity. The report should be endorsed with the respective logo of the accreditation body (NVLAP).



VCCI: Accepted as an Associate Member to the VCCI, Acceptance No. 564. Conducted and radiated measurement facilities have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. (*Registration Numbers. - Hillsboro: C-1071, R-1025, C-2687, T-289, and R-2318, Irvine: R-1943, C-2766, and T-298, Sultan: R-871, C-1784, and T-294.*)



BSMI: Northwest EMC has been designated by NIST and validated by C-Taipei (BSMI) as a CAB to conduct tests as described in the APEC Mutual Recognition Agreement. License No.SL2-IN-E-1017.



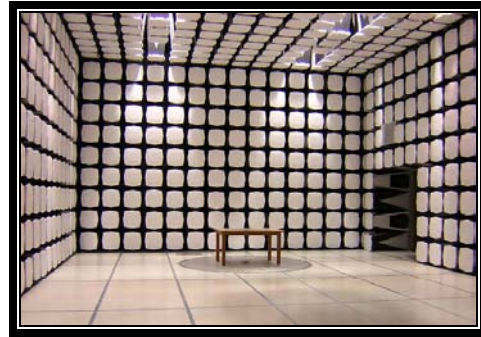
GOST: Northwest EMC, Inc. has been assessed and accredited by the Russian Certification bodies Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC, to perform EMC and Hygienic testing for Information Technology Products. As a result of their laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification



SCOPE

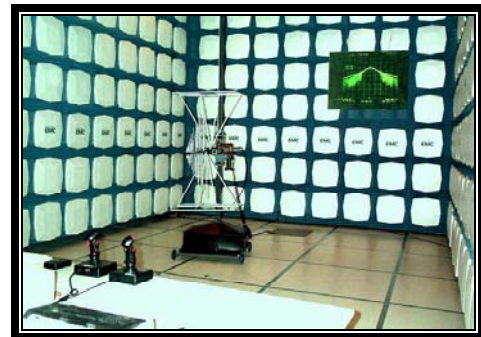
For details on the Scopes of our Accreditations, please visit:

<http://www.nwemc.com/scope.asp>



**California – Orange County Facility
Labs OC01 – OC13**

41 Tesla Ave. Irvine, CA 92618
(888) 364-2378 Fax: (503) 844-3826



**Oregon – Evergreen Facility
Labs EV01 – EV11**

22975 NW Evergreen Pkwy. Suite 400 Hillsboro, OR 97124
(503) 844-4066 Fax: (503) 844-3826



**Washington – Sultan Facility
Labs SU01 – SU07**

14128 339th Ave. SE Sultan, WA 98294
(888) 364-2378

Party Requesting the Test

Company Name:	Precor, Inc.
Address:	PO Box 7202
City, State, Zip:	Woodinville, WA 98072-4002
Test Requested By:	Eric Anderson
Model:	XTV-9TM
First Date of Test:	January 2, 2007
Last Date of Test:	May 16, 2007
Receipt Date of Samples:	January 2, 2007
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test**Functional Description of the EUT (Equipment Under Test):**

Cardio Theater Transmitter

Testing Objective:

These tests were selected to satisfy the EMC requirements requested by the client.

CONFIGURATION 1 PRCR0057

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Cardio Theater Transmitter	Precor, Inc.	XTV-9TM	3961012206003

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
DVD Player	Unknown	VXM-2200	Unknown
Antenna	Unknown	Unknown	Unknown
AC Adapter	Linearity Electronics	LAD6019AB5	A21060700002010F

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Audio (x2)	No	1.4m	Yes	DVD Player	EUT Audio Inputs 1
Audio (x2)	No	1.4m	No	EUT Audio Inputs 2	Unterminated
Audio (x2)	No	1.4m	No	EUT Audio Inputs 3	Unterminated
Audio (x2)	No	1.4m	No	EUT Audio Inputs 4	Unterminated
AC	No	2.0m	No	EUT	AC Mains
Antenna	Yes	1.0m	Yes	EUT	Antenna
DC	No	2.0m	No	DVD Player	AC Adapter
AC	No	1.8m	No	AC Adapter	AC Mains

PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.

CONFIGURATION 1 PRCR0082

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Cardio Theater Transmitter	Precor, Inc.	XTV-9TM	3961012206003

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Power Supply	Brunelle Instruments	1030	289364
Antenna	Precor, Inc.	9TM Antenna	N/A

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Coax	Yes	1m	No	EUT	Antenna
AC Power	Yes	1.8m	No	AC Power	EUT
AC Power	Yes	1.8m	No	AC Power	Power Supply
DC Leads	No	.7m	No	Power Supply	Radio

PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.

Equipment modifications					
Item	Date	Test	Modification	Note	Disposition of EUT
1	1/2/2007	Field Strength of Fundamental	Modified from delivered configuration. Initial or No Modification	Returned ferrite on antenna cable to correct location as determined to be needed for digital emissions. Modification done by Rod Peloquin.	EUT remained at Northwest EMC following the test.
2	1/2/2007	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.
3	5/16/2007	Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

Spurious Radiated Emissions

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

Modulated signal, TX Low channel 903.590MHz

Modulated signal, TX Mid channel 914.620MHz

Modulated signal, TX High channel 926.170MHz

POWER SETTINGS INVESTIGATED

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

Start Frequency	30MHz	Stop Frequency	12500MHz
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CLOCKS AND OSCILLATORS

Not provided

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	12/29/2006	13
Antenna, Horn	EMCO	3115	AHC	8/24/2006	12
Pre-Amplifier	Miteq	AM-1616-1000	AOL	12/29/2006	13
Antenna, Biconilog	EMCO	3141	AXE	12/28/2005	24
Spectrum Analyzer	Agilent	E4443A	AAS	12/7/2006	13

MEASUREMENT BANDWIDTHS

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was transmitting and receiving while set at the lowest channel, a middle channel, and the highest channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.4:2003). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

Spurious Radiated Emissions

EUT: XTV-9TM	Work Order: PRCR0057
Serial Number: 3961012206003	Date: 01/02/07
Customer: Precor, Inc.	Temperature: 23
Attendees: None	Humidity: 28%
Project: None	Barometric Pres.: 30.05
Tested by: David Divergigelis	Power: 120VAC/60Hz
	Job Site: EV01

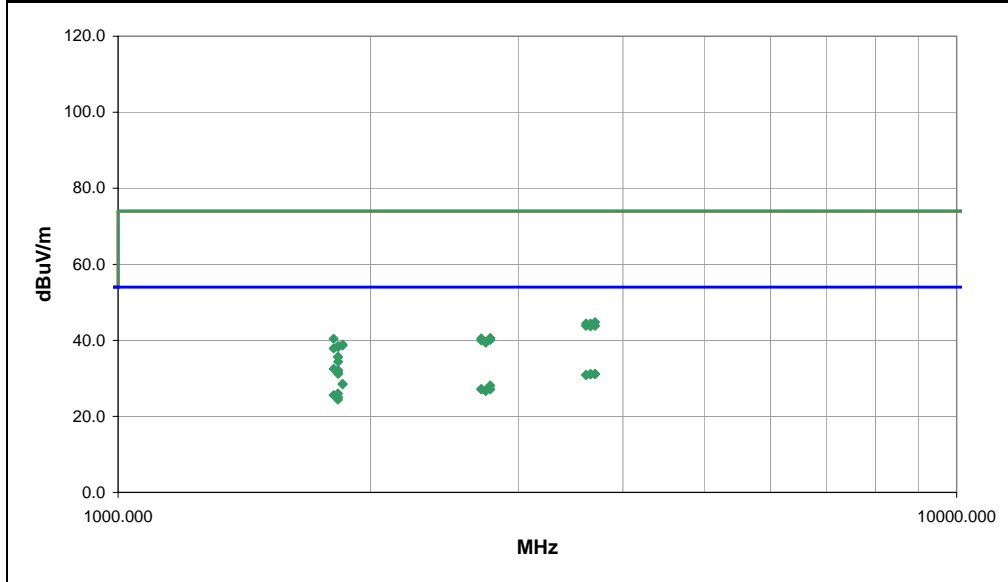
TEST SPECIFICATIONS	Test Method
FCC 15.249:2006	ANSI C63.4:2003

TEST PARAMETERS	
Antenna Height(s) (m) 1 - 4	Test Distance (m) 3

COMMENTS
All ports populated. Ferrite on a single audio line as sent by customer. Audio input from DVD player to module 1.

EUT OPERATING MODES
Modulated signal, Low, Mid and High channels (please see comments next to data below)

DEVIATIONS FROM TEST STANDARD		
No deviations.		
Run # 3		
Configuration # 1		
Results Pass	NVLAP Lab Code 200630-0	Signature <i>David Divergigelis</i>



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
1807.168	33.5	-1.0	225.0	1.0	3.0	0.0	H-Horn	AV	0.0	32.5	54.0	-21.5	EUT on side TX low channel 45
1829.194	33.1	-1.0	215.0	1.0	3.0	0.0	H-Horn	AV	0.0	32.1	54.0	-21.9	EUT Horz TX mid channel 44
1829.207	33.0	-1.0	219.0	1.0	3.0	0.0	H-Horn	AV	0.0	32.0	54.0	-22.0	EUT Vert TX mid channel 44
1829.197	32.2	-1.0	226.0	1.4	3.0	0.0	V-Horn	AV	0.0	31.2	54.0	-22.8	EUT Vert TX mid channel 44
3704.424	24.0	7.2	315.0	1.0	3.0	0.0	V-Horn	AV	0.0	31.2	54.0	-22.8	EUT on side TX high channel 28
3658.446	24.0	7.1	295.0	1.0	3.0	0.0	H-Horn	AV	0.0	31.1	54.0	-22.9	EUT on side TX mid channel 44
3659.343	24.0	7.1	53.0	2.3	3.0	0.0	V-Horn	AV	0.0	31.1	54.0	-22.9	EUT on side TX mid channel 44
3704.888	23.9	7.2	164.0	1.0	3.0	0.0	H-Horn	AV	0.0	31.1	54.0	-22.9	EUT on side TX high channel 28
3614.375	24.0	6.9	250.0	1.0	3.0	0.0	H-Horn	AV	0.0	30.9	54.0	-23.1	EUT on side TX low channel 45
3615.115	24.0	6.9	39.0	1.0	3.0	0.0	V-Horn	AV	0.0	30.9	54.0	-23.1	EUT on side TX low channel 45
1852.389	29.2	-0.7	323.0	1.0	3.0	0.0	V-Horn	AV	0.0	28.5	54.0	-25.5	EUT on side TX high channel 28
1852.428	29.2	-0.7	226.0	1.0	3.0	0.0	H-Horn	AV	0.0	28.5	54.0	-25.5	EUT on side TX high channel 28
2778.528	25.0	3.1	240.0	1.0	3.0	0.0	V-Horn	AV	0.0	28.1	54.0	-25.9	EUT on side TX high channel 28
2710.553	24.4	2.8	197.0	1.7	3.0	0.0	H-Horn	AV	0.0	27.2	54.0	-26.8	EUT on side TX low channel 45
2710.828	24.3	2.8	321.0	1.0	3.0	0.0	V-Horn	AV	0.0	27.1	54.0	-26.9	EUT on side TX low channel 45
2778.401	24.0	3.1	303.0	1.0	3.0	0.0	H-Horn	AV	0.0	27.1	54.0	-26.9	EUT on side TX high channel 28
2743.484	23.9	2.9	351.0	1.0	3.0	0.0	V-Horn	AV	0.0	26.8	54.0	-27.2	EUT on side TX mid channel 44
2743.889	23.8	2.9	55.0	1.0	3.0	0.0	H-Horn	AV	0.0	26.7	54.0	-27.3	EUT on side TX mid channel 44
1829.144	27.0	-1.0	41.0	1.0	3.0	0.0	V-Horn	AV	0.0	26.0	54.0	-28.0	EUT on side TX mid channel 44
1807.205	26.6	-1.0	164.0	1.4	3.0	0.0	V-Horn	AV	0.0	25.6	54.0	-28.4	EUT on side TX low channel 45

EUT: XTV-9TM	Work Order: PRCR0057
Serial Number: 3961012206003	Date: 01/04/07
Customer: Precor, Inc.	Temperature: 22
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 30.04
Tested by: Holly Ashkannejhad	Power: 120VAC/60Hz
	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.249:2006:	ANSI C63.4:2003:

TEST PARAMETERS	
Antenna Height(s) (m)	1 - 4
Test Distance (m)	3

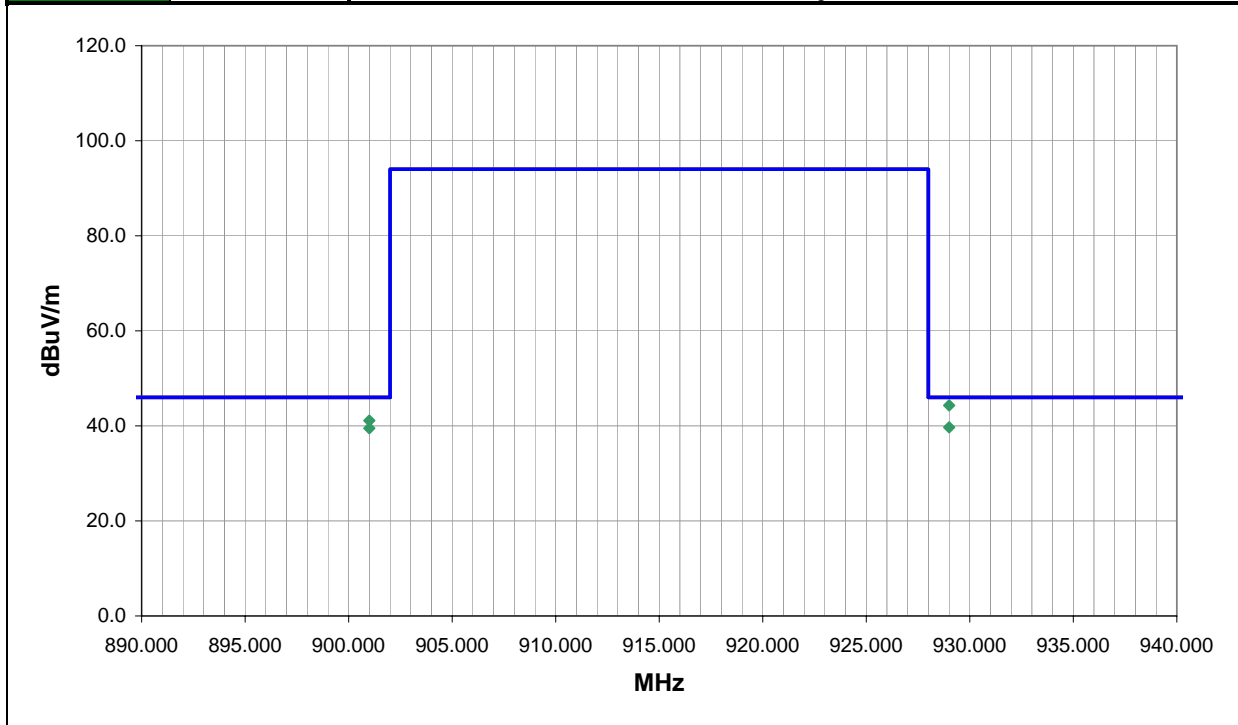
COMMENTS
All ports populated. Ferrite on a single audio line as sent by customer. Audio input from DVD player to module 1.

EUT OPERATING MODES
Modulated signal, see comments for channel

DEVIATIONS FROM TEST STANDARD
No deviations.

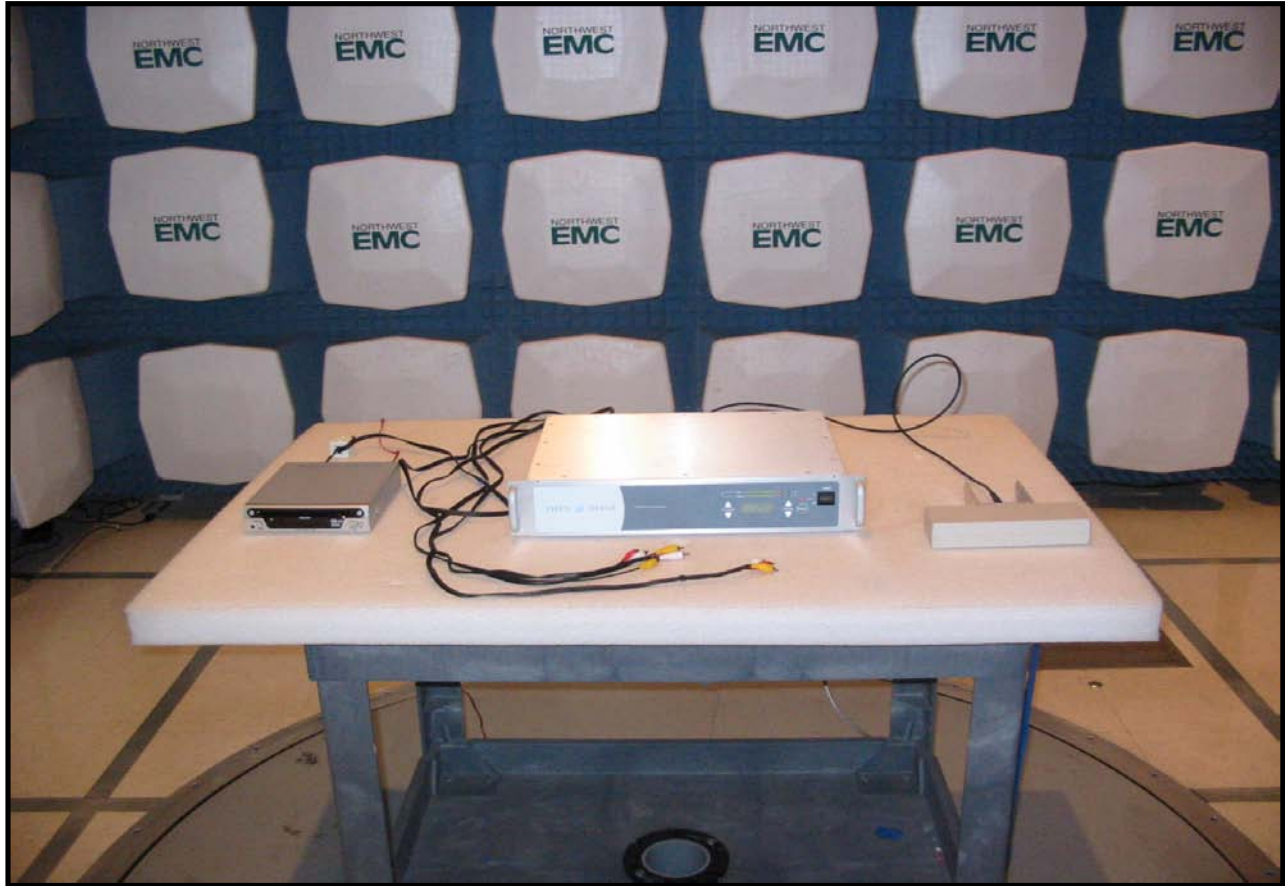
Run #	5	Signature <i>Holly Ashkannejhad</i>
Configuration #	1	
Results	Pass	

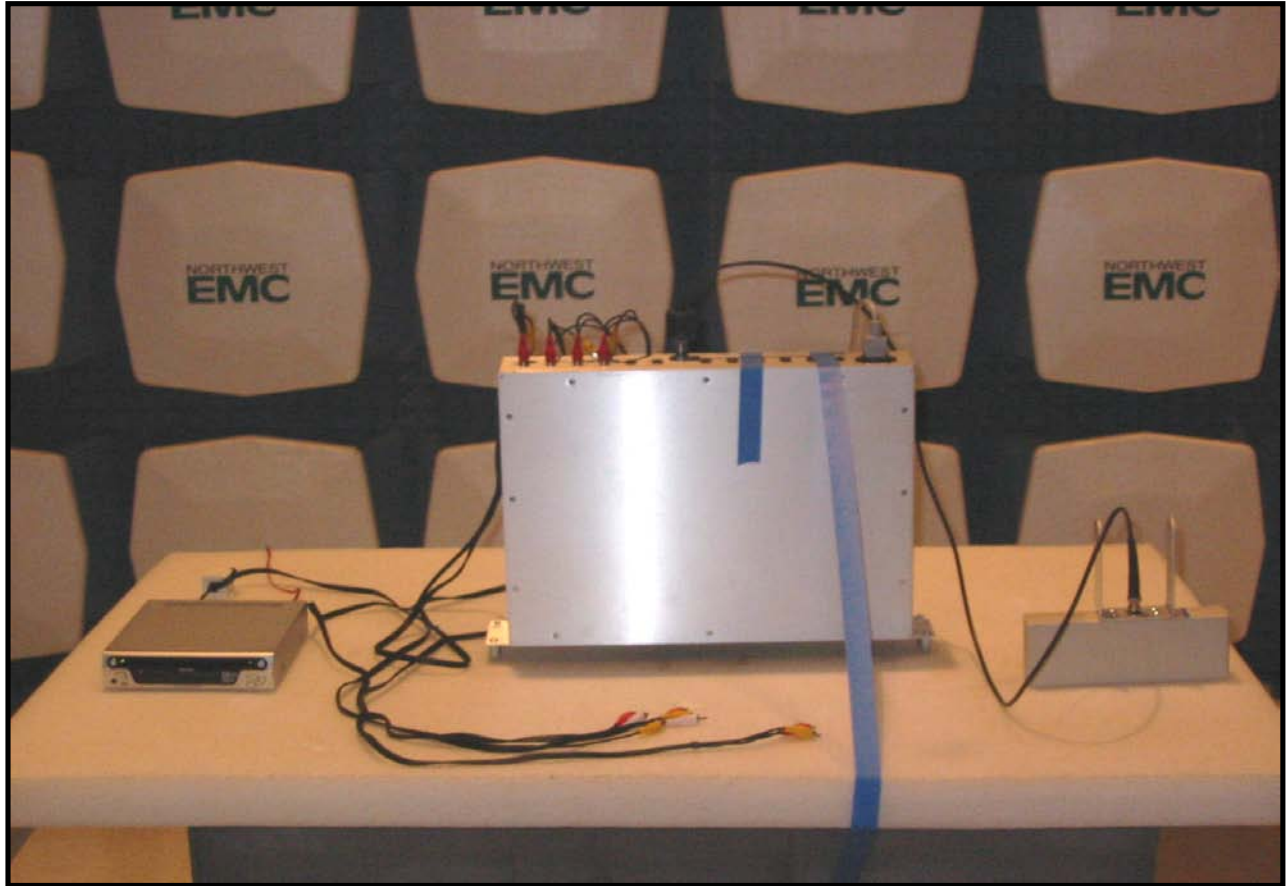
NVLAP Lab Code 200630-0



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
929.000	21.2	13.1	157.0	1.0	3.0	10.0	V-Bilog	QP	0.0	44.3	46.0	-1.7
901.000	18.1	13.0	176.0	1.0	3.0	10.0	V-Bilog	QP	0.0	41.1	46.0	-4.9
929.000	16.6	13.1	248.0	1.0	3.0	10.0	H-Bilog	QP	0.0	39.7	46.0	-6.3
901.000	16.5	13.0	278.0	1.1	3.0	10.0	H-Bilog	QP	0.0	39.5	46.0	-6.5

Spurious Radiated Emissions





Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

Modulated signal, Low channel 903.59MHz

Modulated signal, Low channel 914.62 MHz

Modulated signal, Low channel 926.17 MHz

POWER SETTINGS INVESTIGATED

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

Start Frequency	903.59 MHz	Stop Frequency	926.17 MHz
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SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4446A	AAT	12/7/2006	13
Antenna, Biconilog	EMCO	3141	AXE	12/28/2005	24
EV01 cables c,g, h			EVA	12/29/2006	13

MEASUREMENT BANDWIDTHS

	Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
	0.01 - 0.15	1.0	0.2	0.2
	0.15 - 30.0	10.0	9.0	9.0
	30.0 - 1000	100.0	120.0	120.0
	Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was transmitting and/or receiving while set at the lowest channel, a middle channel, and the highest channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.4:2003).

EUT: XTV-9TM	Work Order: PRCR0057
Serial Number: 3961012206003	Date: 01/02/07
Customer: Precor, Inc.	Temperature: 23
Attendees: None	Humidity: 28%
Project: None	Barometric Pres.: 30.05
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.249:2006	ANSI C63.4:2003

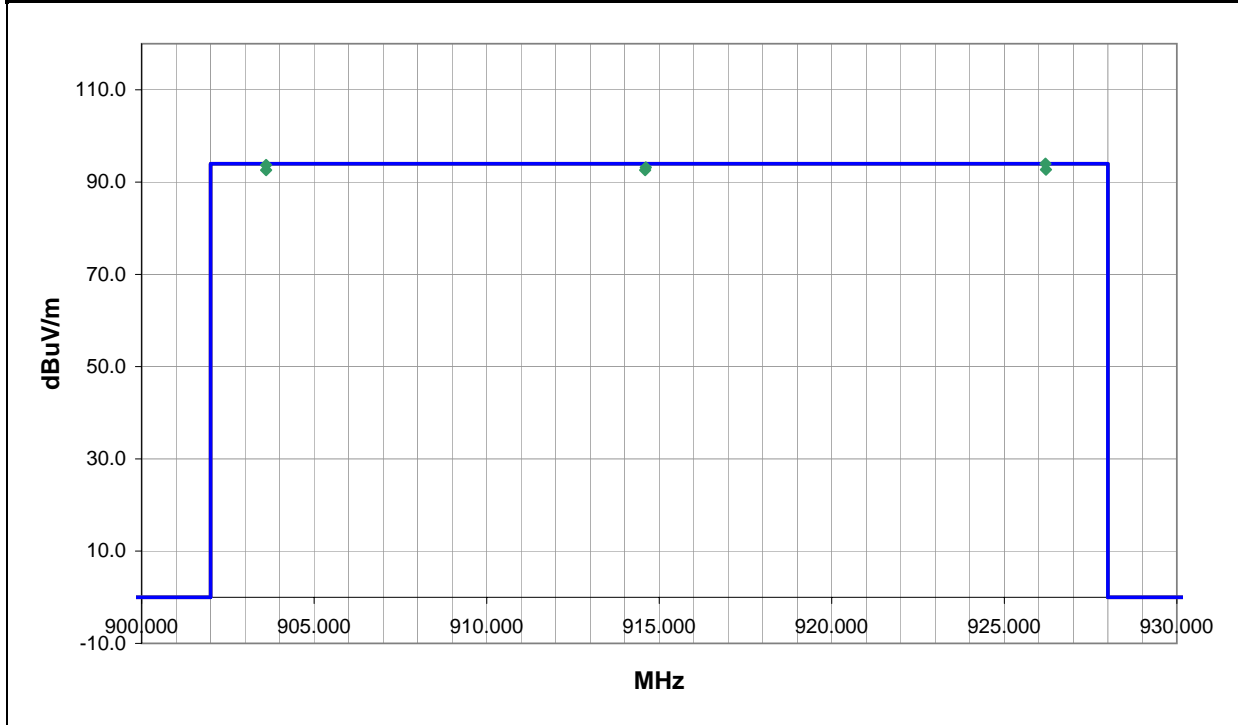
TEST PARAMETERS	
Antenna Height(s) (m) 1 - 4	Test Distance (m) 3

COMMENTS
All ports populated. Ferrite on a single audio line as sent by customer. Audio input from DVD player to module 1.

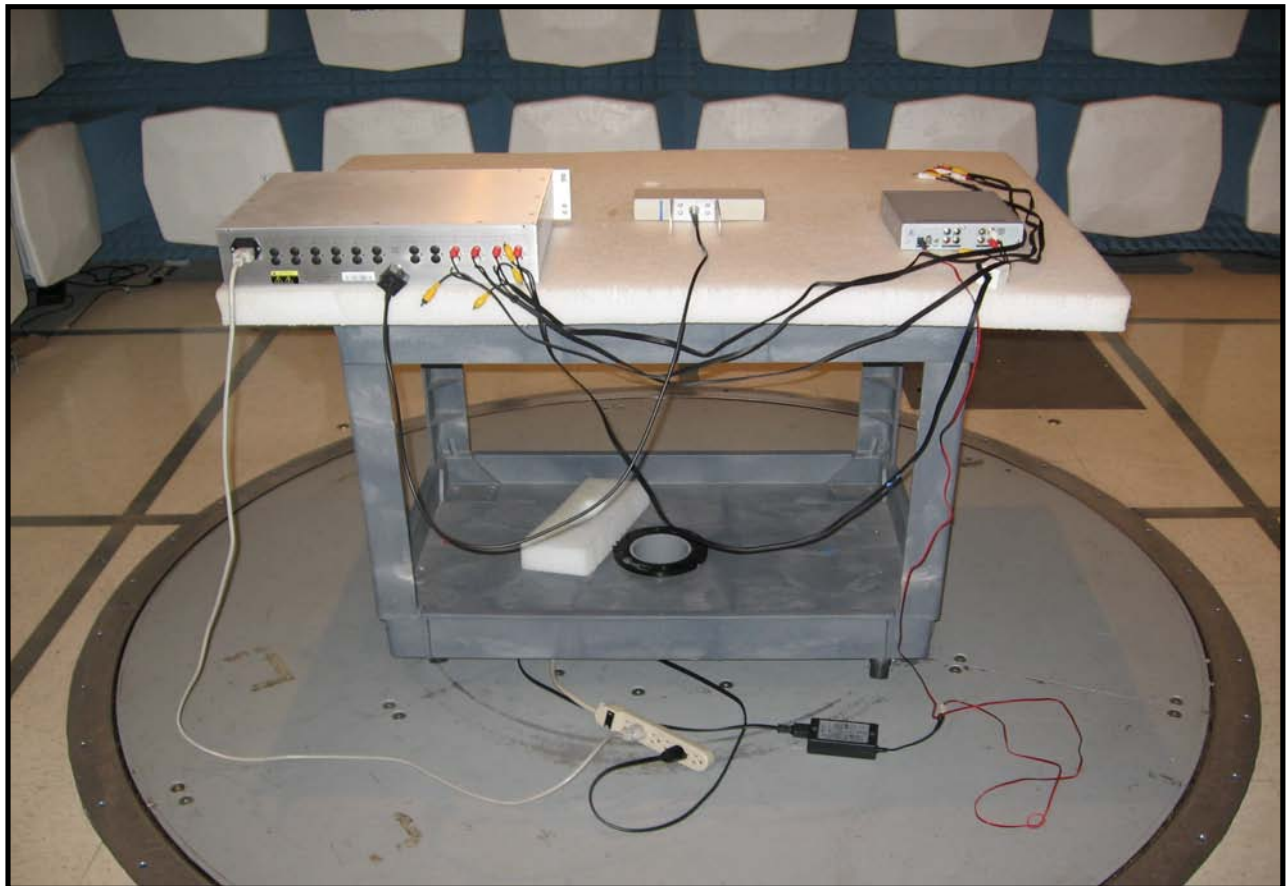
EUT OPERATING MODES
Modulated signal
DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	2	 Signature
Configuration #	1	
Results	Pass	

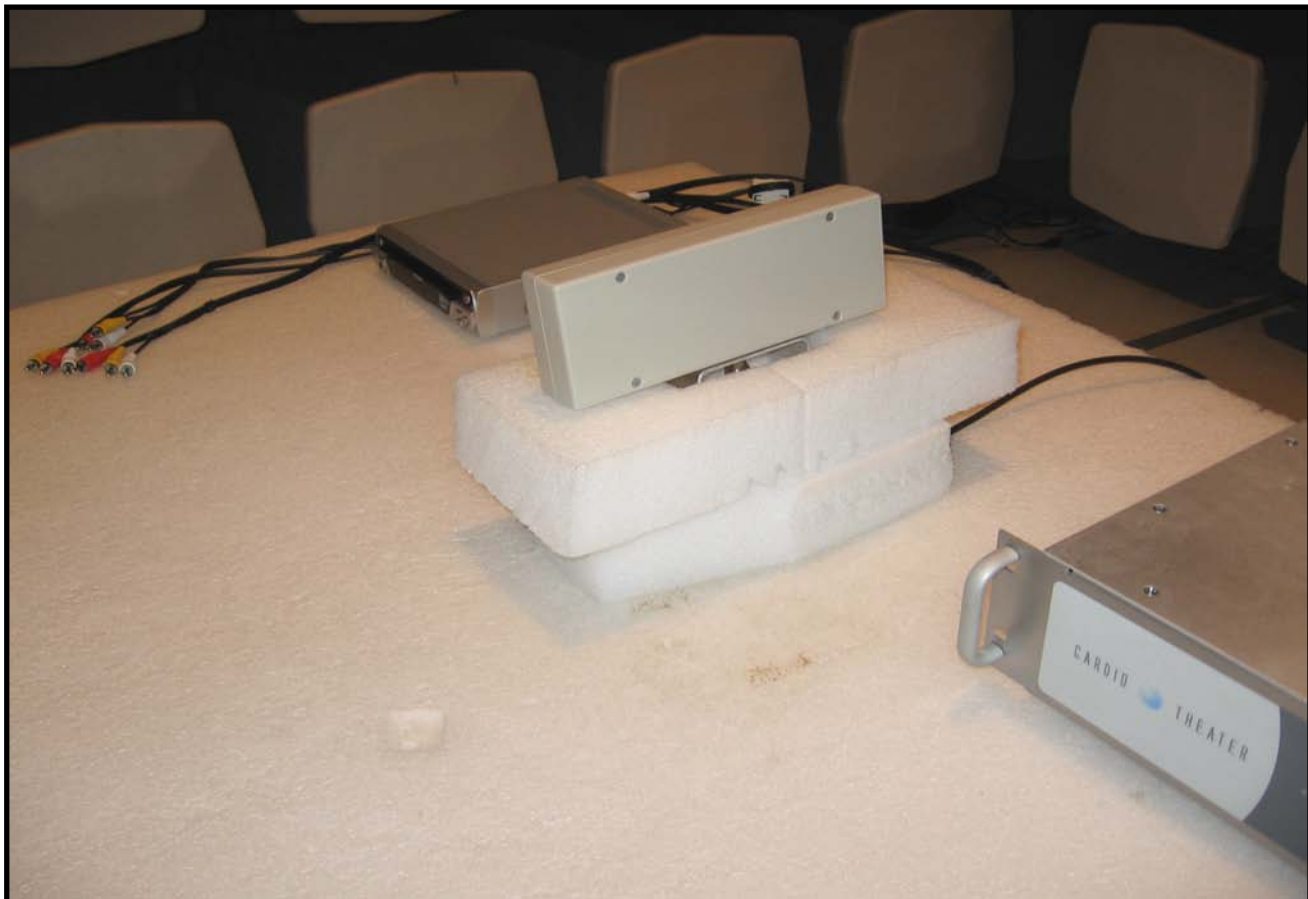
NVLAP Lab Code 200630-0



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
926.192	59.9	34.1	199.0	1.1	0.0	0.0	V-Bilog	PK	0.0	94.0	94.0	0.0
903.606	59.9	33.8	184.0	1.1	0.0	0.0	V-Bilog	PK	0.0	93.7	94.0	-0.3
914.612	59.3	33.9	189.0	1.1	0.0	0.0	V-Bilog	PK	0.0	93.2	94.0	-0.8
926.209	58.6	34.1	146.0	1.0	0.0	0.0	H-Bilog	PK	0.0	92.7	94.0	-1.3
903.608	58.8	33.8	146.0	1.0	0.0	0.0	H-Bilog	PK	0.0	92.6	94.0	-1.4
914.591	58.7	33.9	334.0	1.0	0.0	0.0	H-Bilog	PK	0.0	92.6	94.0	-1.4







Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

Transmitting on the High Channel.

Transmitting on the Mid Channel.

Transmitting on the Low Channel.

POWER SETTINGS INVESTIGATED

120V/60Hz

SAMPLE CALCULATIONS

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
LISN	Solar	9252-50-R-24-BNC	LIM	1/17/2007	13
LISN	Solar	9252-50-R-24-BNC	LIK	1/17/2007	13
SU07 cables a.g. conducted emissions			SUC	1/18/2007	13
Attenuator	Pasternack		AUL	1/17/2007	13
High Pass Filter	TTE	H647-100k-50-718B	HFB	1/17/2007	13
Receiver	Rohde & Schwartz	ESCI	ARE	12/7/2006	13

MEASUREMENT BANDWIDTHS

	Frequency Range	Peak Data	Quasi-Peak Data	Average Data
	(MHz)	(kHz)	(kHz)	(kHz)
	0.01 - 0.15	1.0	0.2	0.2
	0.15 - 30.0	10.0	9.0	9.0
	30.0 - 1000	100.0	120.0	120.0
	Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

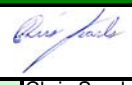
Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the line-to-ground radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Equipment is tested with power cords that are normally used or that have electrical or shielding characteristics that are the same as those cords normally used. Typically those measurements are made using a LISN (Line Impedance Stabilization Network), the 50 Ω measuring port is terminated by a 50 Ω EMI meter or a 50 Ω resistive load. All 50 Ω measuring ports of the LISN are terminated by 50 Ω .

EMC

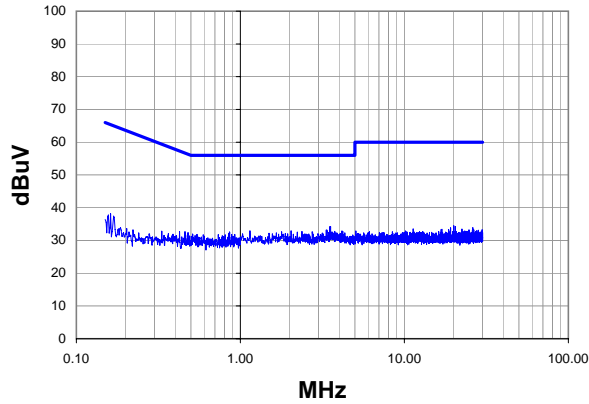
CONDUCTED EMISSIONS

Work Order:	PRCR0082	Date:	05/16/07	
Project:	None	Temperature:	22 C	
Job Site:	SU07	Humidity:	38	
Serial Number:	3961012206003	Barometric Pres.:	30.15	
EUT:	XTV-9TM			
Configuration:	1			
Customer:	Precor, Inc.			
Attendees:	None			
EUT Power:	120V/60Hz			
Operating Mode:	Transmitting on the Low Channel.			
Deviations:	None			
Comments:	Radio Power from Linear Supply.			

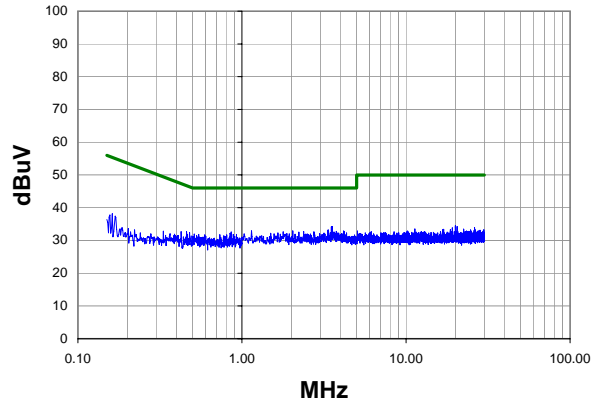
Test Specifications FCC 15.207:2006	Class B	Test Method ANSI C63.4:2003
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Run #	3	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit


Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
3.552	13.6	0.7	34.3	56.0	-21.7
3.504	13.5	0.7	34.2	56.0	-21.8
3.368	12.5	0.6	33.1	56.0	-22.9
3.344	12.5	0.6	33.1	56.0	-22.9
2.040	12.3	0.6	32.9	56.0	-23.1
1.144	12.3	0.6	32.9	56.0	-23.1
4.160	12.2	0.7	32.9	56.0	-23.1
4.208	12.1	0.7	32.8	56.0	-23.2
3.760	12.1	0.7	32.8	56.0	-23.2
2.376	12.1	0.6	32.7	56.0	-23.3
2.744	12.0	0.6	32.6	56.0	-23.4
1.784	12.0	0.6	32.6	56.0	-23.4
0.861	11.9	0.7	32.6	56.0	-23.4
2.224	11.9	0.6	32.5	56.0	-23.5
4.336	11.6	0.7	32.3	56.0	-23.7
0.847	11.5	0.7	32.2	56.0	-23.8
0.480	11.5	0.9	32.4	56.3	-24.0
0.459	11.8	0.9	32.7	56.7	-24.0
0.512	11.1	0.9	32.0	56.0	-24.0
0.886	11.2	0.7	31.9	56.0	-24.1

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
3.552	13.6	0.7	34.3	46.0	-11.7
3.504	13.5	0.7	34.2	46.0	-11.8
3.368	12.5	0.6	33.1	46.0	-12.9
3.344	12.5	0.6	33.1	46.0	-12.9
2.040	12.3	0.6	32.9	46.0	-13.1
1.144	12.3	0.6	32.9	46.0	-13.1
4.160	12.2	0.7	32.9	46.0	-13.1
4.208	12.1	0.7	32.8	46.0	-13.2
3.760	12.1	0.7	32.8	46.0	-13.2
2.376	12.1	0.6	32.7	46.0	-13.3
2.744	12.0	0.6	32.6	46.0	-13.4
1.784	12.0	0.6	32.6	46.0	-13.4
0.861	11.9	0.7	32.6	46.0	-13.4
2.224	11.9	0.6	32.5	46.0	-13.5
4.336	11.6	0.7	32.3	46.0	-13.7
0.847	11.5	0.7	32.2	46.0	-13.8
0.480	11.5	0.9	32.4	46.3	-14.0
0.459	11.8	0.9	32.7	46.7	-14.0
0.512	11.1	0.9	32.0	46.0	-14.0
0.886	11.2	0.7	31.9	46.0	-14.1

EMC

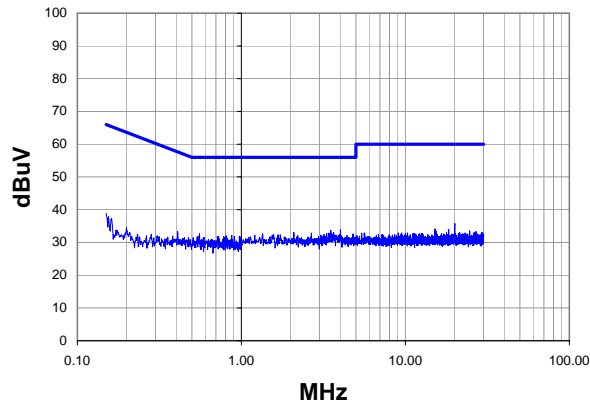
CONDUCTED EMISSIONS

Work Order:	PRCR0082	Date:	05/16/07	
Project:	None	Temperature:	22 C	
Job Site:	SU07	Humidity:	38	
Serial Number:	3961012206003	Barometric Pres.:	30.15	
EUT:	XTV-9TM			
Configuration:	1			
Customer:	Precor, Inc.			
Attendees:	None			
EUT Power:	120V/60Hz			
Operating Mode:	Transmitting on the Low Channel.			
Deviations:	None			
Comments:	Radio Power from Linear Supply.			

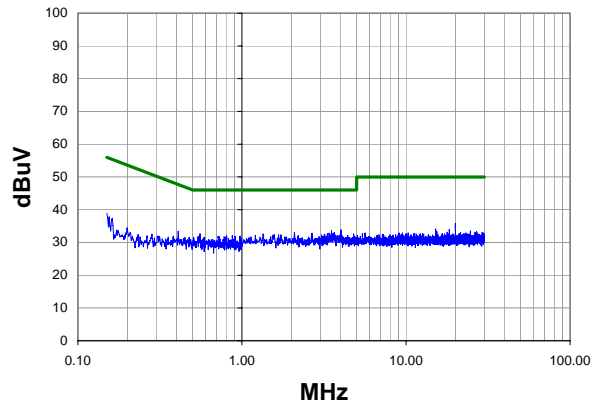
Test Specifications FCC 15.207:2006	Class B	Test Method ANSI C63.4:2003
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Run #	4	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

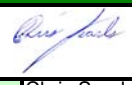
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
4.016	13.2	0.7	33.9	56.0	-22.1
3.512	13.0	0.7	33.7	56.0	-22.3
2.088	12.4	0.6	33.0	56.0	-23.0
2.672	12.2	0.6	32.8	56.0	-23.2
0.555	11.8	0.8	32.6	56.0	-23.4
1.344	12.0	0.6	32.6	56.0	-23.4
4.792	11.9	0.7	32.6	56.0	-23.4
1.576	11.8	0.6	32.4	56.0	-23.6
3.200	11.7	0.6	32.3	56.0	-23.7
1.728	11.7	0.6	32.3	56.0	-23.7
3.056	11.6	0.6	32.2	56.0	-23.8
0.874	11.5	0.7	32.2	56.0	-23.8
4.416	11.4	0.7	32.1	56.0	-23.9
0.806	11.3	0.7	32.0	56.0	-24.0
0.973	11.3	0.6	31.9	56.0	-24.1
0.906	11.2	0.6	31.8	56.0	-24.2
0.716	11.1	0.7	31.8	56.0	-24.2
0.980	11.2	0.6	31.8	56.0	-24.2
20.000	14.8	1.0	35.8	60.0	-24.2
0.726	11.0	0.7	31.7	56.0	-24.3

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
4.016	13.2	0.7	33.9	46.0	-12.1
3.512	13.0	0.7	33.7	46.0	-12.3
2.088	12.4	0.6	33.0	46.0	-13.0
2.672	12.2	0.6	32.8	46.0	-13.2
0.555	11.8	0.8	32.6	46.0	-13.4
1.344	12.0	0.6	32.6	46.0	-13.4
4.792	11.9	0.7	32.6	46.0	-13.4
1.576	11.8	0.6	32.4	46.0	-13.6
3.200	11.7	0.6	32.3	46.0	-13.7
1.728	11.7	0.6	32.3	46.0	-13.7
3.056	11.6	0.6	32.2	46.0	-13.8
0.874	11.5	0.7	32.2	46.0	-13.8
4.416	11.4	0.7	32.1	46.0	-13.9
0.806	11.3	0.7	32.0	46.0	-14.0
0.973	11.3	0.6	31.9	46.0	-14.1
0.906	11.2	0.6	31.8	46.0	-14.2
0.716	11.1	0.7	31.8	46.0	-14.2
0.980	11.2	0.6	31.8	46.0	-14.2
20.000	14.8	1.0	35.8	50.0	-14.2
0.726	11.0	0.7	31.7	46.0	-14.3

EMC

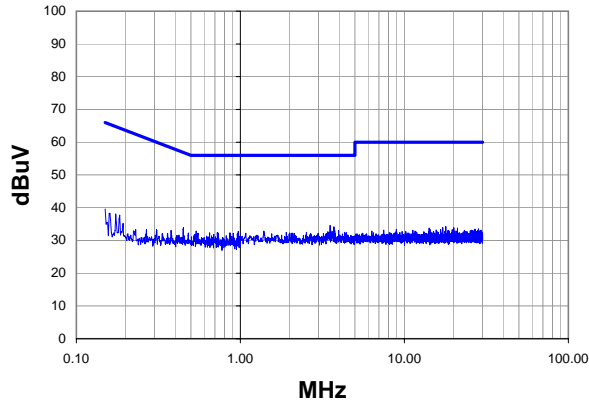
CONDUCTED EMISSIONS

Work Order:	PRCR0082	Date:	05/16/07	
Project:	None	Temperature:	22 C	
Job Site:	SU07	Humidity:	38	
Serial Number:	3961012206003	Barometric Pres.:	30.15	
EUT:	XTV-9TM			
Configuration:	1			
Customer:	Precor, Inc.			
Attendees:	None			
EUT Power:	120V/60Hz			
Operating Mode:	Transmitting on the Mid Channel.			
Deviations:	None			
Comments:	Radio Power from Linear Supply.			

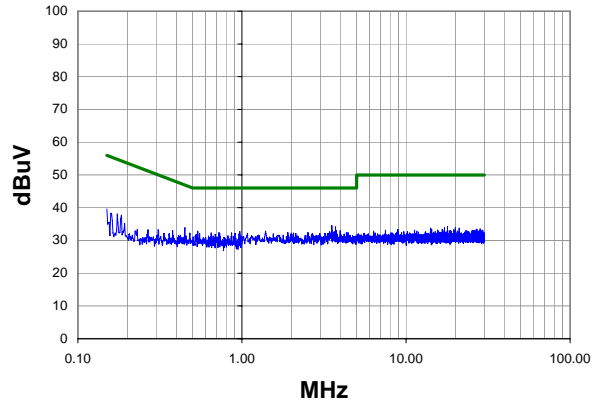
Test Specifications FCC 15.207:2006	Class B	Test Method ANSI C63.4:2003
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Run #	5	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

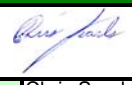
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
3.528	13.9	0.7	34.6	56.0	-21.4
3.720	13.5	0.7	34.2	56.0	-21.8
0.449	13.0	0.9	33.9	56.9	-23.0
3.968	12.3	0.7	33.0	56.0	-23.0
3.760	12.3	0.7	33.0	56.0	-23.0
3.560	12.3	0.7	33.0	56.0	-23.0
0.538	12.0	0.8	32.8	56.0	-23.2
1.392	12.2	0.6	32.8	56.0	-23.2
0.971	12.1	0.6	32.7	56.0	-23.3
4.328	11.8	0.7	32.5	56.0	-23.5
2.528	11.8	0.6	32.4	56.0	-23.6
1.904	11.8	0.6	32.4	56.0	-23.6
4.432	11.7	0.7	32.4	56.0	-23.6
0.723	11.6	0.7	32.3	56.0	-23.7
0.650	11.5	0.8	32.3	56.0	-23.7
0.864	11.6	0.7	32.3	56.0	-23.7
0.731	11.5	0.7	32.2	56.0	-23.8
1.080	11.6	0.6	32.2	56.0	-23.8
0.906	11.5	0.6	32.1	56.0	-23.9
3.216	11.5	0.6	32.1	56.0	-23.9

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
3.528	13.9	0.7	34.6	46.0	-11.4
3.720	13.5	0.7	34.2	46.0	-11.8
0.449	13.0	0.9	33.9	46.9	-13.0
3.968	12.3	0.7	33.0	46.0	-13.0
3.760	12.3	0.7	33.0	46.0	-13.0
3.560	12.3	0.7	33.0	46.0	-13.0
0.538	12.0	0.8	32.8	46.0	-13.2
1.392	12.2	0.6	32.8	46.0	-13.2
0.971	12.1	0.6	32.7	46.0	-13.3
4.328	11.8	0.7	32.5	46.0	-13.5
2.528	11.8	0.6	32.4	46.0	-13.6
1.904	11.8	0.6	32.4	46.0	-13.6
4.432	11.7	0.7	32.4	46.0	-13.6
0.723	11.6	0.7	32.3	46.0	-13.7
0.650	11.5	0.8	32.3	46.0	-13.7
0.864	11.6	0.7	32.3	46.0	-13.7
0.731	11.5	0.7	32.2	46.0	-13.8
1.080	11.6	0.6	32.2	46.0	-13.8
0.906	11.5	0.6	32.1	46.0	-13.9
3.216	11.5	0.6	32.1	46.0	-13.9

EMC

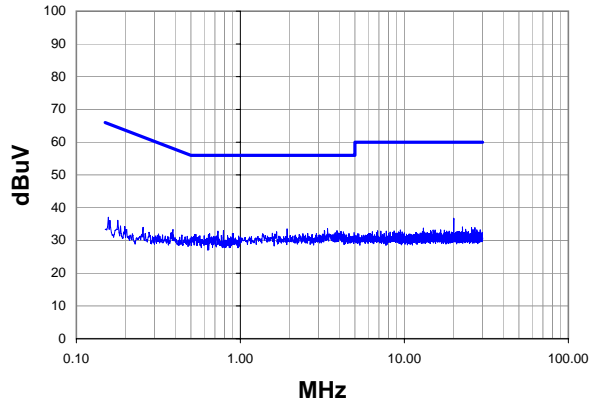
CONDUCTED EMISSIONS

Work Order:	PRCR0082	Date:	05/16/07	
Project:	None	Temperature:	22 C	
Job Site:	SU07	Humidity:	38	
Serial Number:	3961012206003	Barometric Pres.:	30.15	
EUT:	XTV-9TM			
Configuration:	1			
Customer:	Precor, Inc.			
Attendees:	None			
EUT Power:	120V/60Hz			
Operating Mode:	Transmitting on the Mid Channel.			
Deviations:	None			
Comments:	Radio Power from Linear Supply.			

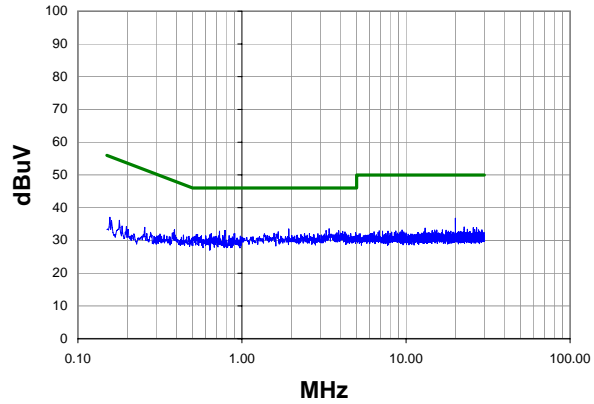
Test Specifications FCC 15.207:2006	Class B	Test Method ANSI C63.4:2003
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Run #	6	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit


Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
3.400	12.9	0.6	33.5	56.0	-22.5
1.928	12.9	0.6	33.5	56.0	-22.5
3.256	12.4	0.6	33.0	56.0	-23.0
0.787	12.3	0.7	33.0	56.0	-23.0
3.888	12.3	0.7	33.0	56.0	-23.0
0.730	12.1	0.7	32.8	56.0	-23.2
20.000	15.8	1.0	36.8	60.0	-23.2
4.112	12.1	0.7	32.8	56.0	-23.2
1.664	12.0	0.6	32.6	56.0	-23.4
4.248	11.9	0.7	32.6	56.0	-23.4
4.936	11.7	0.7	32.4	56.0	-23.6
1.568	11.6	0.6	32.2	56.0	-23.8
0.903	11.5	0.6	32.1	56.0	-23.9
2.576	11.5	0.6	32.1	56.0	-23.9
0.650	11.3	0.8	32.1	56.0	-23.9
0.527	11.0	0.8	31.8	56.0	-24.2
0.640	11.0	0.8	31.8	56.0	-24.2
0.765	10.8	0.7	31.5	56.0	-24.5
0.835	10.8	0.7	31.5	56.0	-24.5
0.602	10.6	0.8	31.4	56.0	-24.6

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
3.400	12.9	0.6	33.5	46.0	-12.5
1.928	12.9	0.6	33.5	46.0	-12.5
3.256	12.4	0.6	33.0	46.0	-13.0
0.787	12.3	0.7	33.0	46.0	-13.0
3.888	12.3	0.7	33.0	46.0	-13.0
0.730	12.1	0.7	32.8	46.0	-13.2
20.000	15.8	1.0	36.8	50.0	-13.2
4.112	12.1	0.7	32.8	46.0	-13.2
1.664	12.0	0.6	32.6	46.0	-13.4
4.248	11.9	0.7	32.6	46.0	-13.4
4.936	11.7	0.7	32.4	46.0	-13.6
1.568	11.6	0.6	32.2	46.0	-13.8
0.903	11.5	0.6	32.1	46.0	-13.9
2.576	11.5	0.6	32.1	46.0	-13.9
0.650	11.3	0.8	32.1	46.0	-13.9
0.527	11.0	0.8	31.8	46.0	-14.2
0.640	11.0	0.8	31.8	46.0	-14.2
0.765	10.8	0.7	31.5	46.0	-14.5
0.835	10.8	0.7	31.5	46.0	-14.5
0.602	10.6	0.8	31.4	46.0	-14.6

EMC

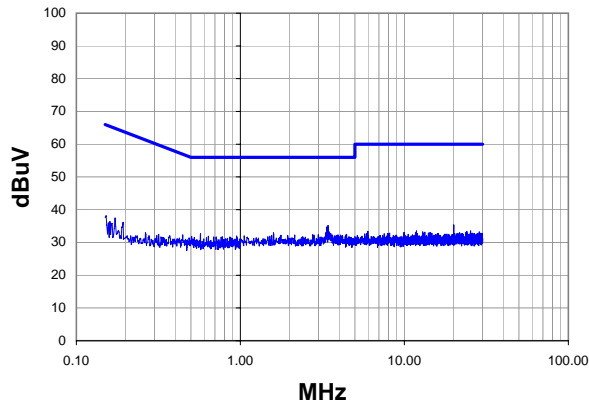
CONDUCTED EMISSIONS

Work Order:	PRCR0082	Date:	05/16/07	
Project:	None	Temperature:	22 C	
Job Site:	SU07	Humidity:	38	
Serial Number:	3961012206003	Barometric Pres.:	30.15	
EUT:	XTV-9TM			
Configuration:	1			
Customer:	Precor, Inc.			
Attendees:	None			
EUT Power:	120V/60Hz			
Operating Mode:	Transmitting on the High Channel.			
Deviations:	None			
Comments:	Radio Power from Linear Supply.			

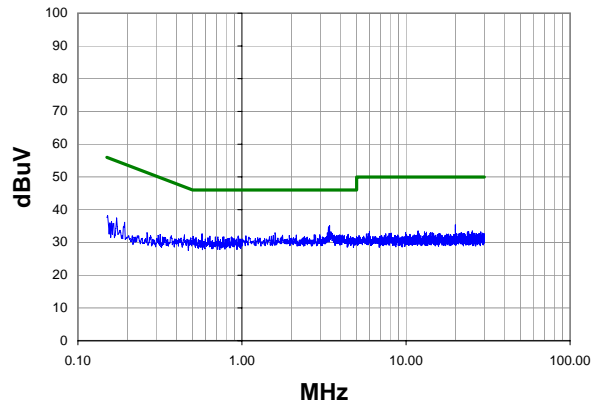
Test Specifications FCC 15.207:2006	Class B	Test Method ANSI C63.4:2003
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Run #	7	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

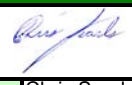
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
3.424	14.5	0.6	35.1	56.0	-20.9
3.368	14.1	0.6	34.7	56.0	-21.3
1.592	12.3	0.6	32.9	56.0	-23.1
0.572	11.8	0.8	32.6	56.0	-23.4
4.448	11.8	0.7	32.5	56.0	-23.5
2.984	11.7	0.6	32.3	56.0	-23.7
2.760	11.7	0.6	32.3	56.0	-23.7
4.408	11.6	0.7	32.3	56.0	-23.7
4.088	11.6	0.7	32.3	56.0	-23.7
2.144	11.6	0.6	32.2	56.0	-23.8
1.768	11.6	0.6	32.2	56.0	-23.8
1.056	11.4	0.6	32.0	56.0	-24.0
0.949	11.3	0.6	31.9	56.0	-24.1
0.638	11.1	0.8	31.9	56.0	-24.1
0.504	11.0	0.9	31.9	56.0	-24.1
0.776	11.0	0.7	31.7	56.0	-24.3
0.864	11.0	0.7	31.7	56.0	-24.3
0.689	10.9	0.8	31.7	56.0	-24.3
0.713	10.9	0.7	31.6	56.0	-24.4
0.764	10.9	0.7	31.6	56.0	-24.4

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
3.424	14.5	0.6	35.1	46.0	-10.9
3.368	14.1	0.6	34.7	46.0	-11.3
1.592	12.3	0.6	32.9	46.0	-13.1
0.572	11.8	0.8	32.6	46.0	-13.4
4.448	11.8	0.7	32.5	46.0	-13.5
2.984	11.7	0.6	32.3	46.0	-13.7
2.760	11.7	0.6	32.3	46.0	-13.7
4.408	11.6	0.7	32.3	46.0	-13.7
4.088	11.6	0.7	32.3	46.0	-13.7
2.144	11.6	0.6	32.2	46.0	-13.8
1.768	11.6	0.6	32.2	46.0	-13.8
1.056	11.4	0.6	32.0	46.0	-14.0
0.949	11.3	0.6	31.9	46.0	-14.1
0.638	11.1	0.8	31.9	46.0	-14.1
0.504	11.0	0.9	31.9	46.0	-14.1
0.776	11.0	0.7	31.7	46.0	-14.3
0.864	11.0	0.7	31.7	46.0	-14.3
0.689	10.9	0.8	31.7	46.0	-14.3
0.713	10.9	0.7	31.6	46.0	-14.4
0.764	10.9	0.7	31.6	46.0	-14.4

EMC

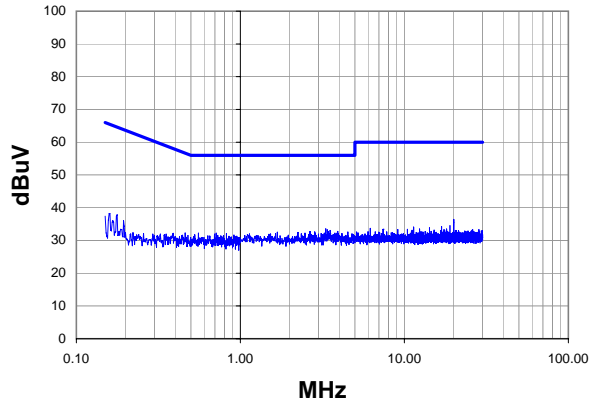
CONDUCTED EMISSIONS

Work Order:	PRCR0082	Date:	05/16/07	
Project:	None	Temperature:	22 C	
Job Site:	SU07	Humidity:	38	
Serial Number:	3961012206003	Barometric Pres.:	30.15	
EUT:	XTV-9TM			
Configuration:	1			
Customer:	Precor, Inc.			
Attendees:	None			
EUT Power:	120V/60Hz			
Operating Mode:	Transmitting on the High Channel.			
Deviations:	None			
Comments:	Radio Power from Linear Supply.			

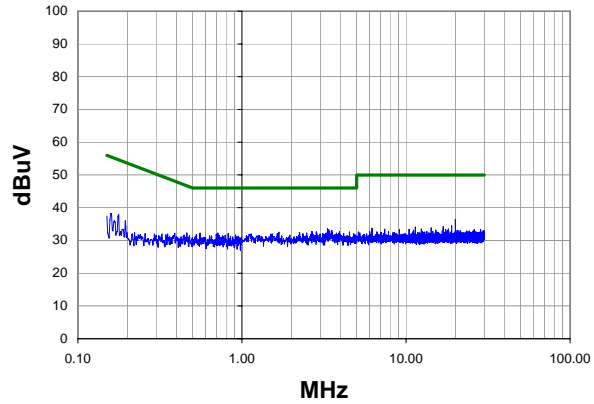
Test Specifications FCC 15.207:2006	Class B	Test Method ANSI C63.4:2003
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Run #	8	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
3.320	12.9	0.6	33.5	56.0	-22.5
3.384	12.6	0.6	33.2	56.0	-22.8
3.928	12.1	0.7	32.8	56.0	-23.2
2.672	12.1	0.6	32.7	56.0	-23.3
2.656	12.1	0.6	32.7	56.0	-23.3
2.840	12.0	0.6	32.6	56.0	-23.4
4.520	11.9	0.7	32.6	56.0	-23.4
1.680	11.9	0.6	32.5	56.0	-23.5
20.000	15.5	1.0	36.5	60.0	-23.5
2.248	11.8	0.6	32.4	56.0	-23.6
3.768	11.6	0.7	32.3	56.0	-23.7
0.713	11.5	0.7	32.2	56.0	-23.8
0.555	11.4	0.8	32.2	56.0	-23.8
4.168	11.5	0.7	32.2	56.0	-23.8
0.823	11.4	0.7	32.1	56.0	-23.9
1.136	11.4	0.6	32.0	56.0	-24.0
0.697	11.2	0.8	32.0	56.0	-24.0
3.168	11.1	0.6	31.7	56.0	-24.3
0.527	10.9	0.8	31.7	56.0	-24.3
0.913	11.0	0.6	31.6	56.0	-24.4

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
3.320	12.9	0.6	33.5	46.0	-12.5
3.384	12.6	0.6	33.2	46.0	-12.8
3.928	12.1	0.7	32.8	46.0	-13.2
2.672	12.1	0.6	32.7	46.0	-13.3
2.656	12.1	0.6	32.7	46.0	-13.3
2.840	12.0	0.6	32.6	46.0	-13.4
4.520	11.9	0.7	32.6	46.0	-13.4
1.680	11.9	0.6	32.5	46.0	-13.5
20.000	15.5	1.0	36.5	50.0	-13.5
2.248	11.8	0.6	32.4	46.0	-13.6
3.768	11.6	0.7	32.3	46.0	-13.7
0.713	11.5	0.7	32.2	46.0	-13.8
0.555	11.4	0.8	32.2	46.0	-13.8
4.168	11.5	0.7	32.2	46.0	-13.8
0.823	11.4	0.7	32.1	46.0	-13.9
1.136	11.4	0.6	32.0	46.0	-14.0
0.697	11.2	0.8	32.0	46.0	-14.0
3.168	11.1	0.6	31.7	46.0	-14.3
0.527	10.9	0.8	31.7	46.0	-14.3
0.913	11.0	0.6	31.6	46.0	-14.4



