



PCTEST ENGINEERING LABORATORY, INC.

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CERTIFICATE OF COMPLIANCE FCC Part 15.239 / IC RSS-210 Certification

Applicant Name:

XM Satellite Radio, Inc.
3161 S.W. 10th Street
Deerfield Beach, FL 33442

Date of Testing:

July 19 - 23, 2007

Test Site/Location:

PCTEST Lab, Columbia, MD, USA

Test Report Serial No.:

0707180737.RS2

| | |
|----------------------|---------------------------------|
| FCC ID: | RS2XMXRC1 |
| IC Cert. No.: | 5697A-SA10316 |
| APPLICANT: | XM Satellite Radio, Inc. |

EUT Type: XpressRC XM Satellite Radio Receiver and FM Transmitter

Frequency Range: 88 – 108MHz (FM Band)

FCC Classification: Part 15 Low Power Transceiver, Rx Verified

FCC Rule Part(s): FCC Part 15 Subpart C (15.239)

IC Rule Part(s): RSS-210

The device bearing the FCC Identifier specified above has been shown to comply with the applicable technical standards as indicated in the measurement report and has been tested in accordance with the measurement procedures specified in ANSI C63.4-2003 (See Test Report). These measurements were performed with no deviation from the standards.

I authorize and attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

NVLAP accreditation does not constitute any product endorsement by NVLAP or any agency of the United States Government. PCTEST certifies that no party to this application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.


Randy Ortanez
President







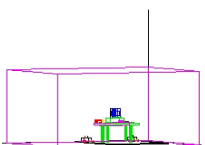
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|---|---|---|---|--|
| FCC ID: RS2XMXRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
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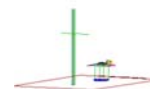
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MEASUREMENT REPORT

FCC Part 15.239 / IC RSS-210



§ 2.1033 General Information

APPLICANT: XM Satellite Radio, Inc.
APPLICANT ADDRESS: 3161 S.W. 10th Street
 Deerfield Beach, FL 33442,
TEST SITE: PCTEST ENGINEERING LABORATORY, INC.
TEST SITE ADDRESS: 6660-B Dobbin Road, Columbia, MD 21045 USA
FCC RULE PART(S): Part 15 Subpart C (15.239)
IC RULE PART(S): RSS-210
MODEL: SA10316
Test Device Serial No.: 13T0Q0MR1857 Production Pre-Production Engineering
FCC CLASSIFICATION: Part 15 Low Power Transceiver, Rx Verified
DATE(S) OF TEST: July 19 - 23, 2007
TEST REPORT S/N: 0707180737.RS2

Test Facility / Accreditations

Measurements were performed at **PCTEST Engineering Lab located in Columbia, MD 21045, U.S.A.**



- PCTEST facility is an FCC registered (PCTEST Reg. No. 90864) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules and Industry Canada (IC-2451).
- PCTEST Lab is accredited to ISO 17025 by U.S. National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP Lab code: 100431-0) in EMC, FCC and Telecommunications.
- PCTEST Lab is accredited to ISO 17025-2005 by the American Association for Laboratory Accreditation (A2LA) in Specific Absorption Rate (SAR) testing, Hearing Aid Compatibility (HAC) testing, CTIA Test Plans, and wireless testing for FCC and Industry Canada Rules.
- PCTEST Lab is a recognized U.S. Conformity Assessment Body (CAB) in EMC and R&TTE (n.b. 0982) under the U.S.-EU Mutual Recognition Agreement (MRA).
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC Guide 65 by the American National Standards Institute (ANSI) in all scopes of FCC Rules and Industry Canada Standards (RSS).
- PCTEST facility is an IC registered (IC-2451) test laboratory with the site description on file at Industry Canada.
- PCTEST is a CTIA Authorized Test Laboratory (CATL) for AMPS, CDMA, and EvDO wireless devices and for Over-the-Air (OTA) Antenna Performance testing for AMPS, CDMA, GSM, GPRS, EGPRS, UMTS (W-CDMA), CDMA 1xEVDO, and CDMA 1xRTT.

| | | | | |
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1.0 INTRODUCTION

1.1 Evaluation Procedure

The evaluation of the Delphi XpressRC XM Satellite Radio Receiver and FM Transmitter was performed as described in the XM New Product Certification test plan dated July 16, 2007. The measurement procedure described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ANSI C63.4-2003) was used in the measurement of the **Delphi XpressRC XM Satellite Radio Receiver and FM Transmitter FCC ID: RS2XMXRC1 / IC Cert. No.: 5697A-SA10316.**

Deviation from measurement procedure.....None

1.2 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

1.3 PCTEST Test Location

The map at the right shows the location of the PCTEST LABORATORY, its proximity to the FCC Laboratory, the Columbia vicinity area, the Baltimore-Washington Intern't'l (BWI) airport, the city of Baltimore and the Washington, DC area. (see Figure 1-1).

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility in New Concept Business Park, Guilford Industrial Park, Columbia, Maryland. The site address is 6660-B Dobbin Road, Columbia, MD 21045. The test site is one of the highest points in the Columbia area with an elevation of 390 feet above mean sea level. The site coordinates are 39° 11'15" N latitude and 76° 49'38" W longitude. The facility is 1.5 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. There are no FM or TV transmitters within 15 miles of the site. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2003 on January 27, 2006 and Industry Canada.

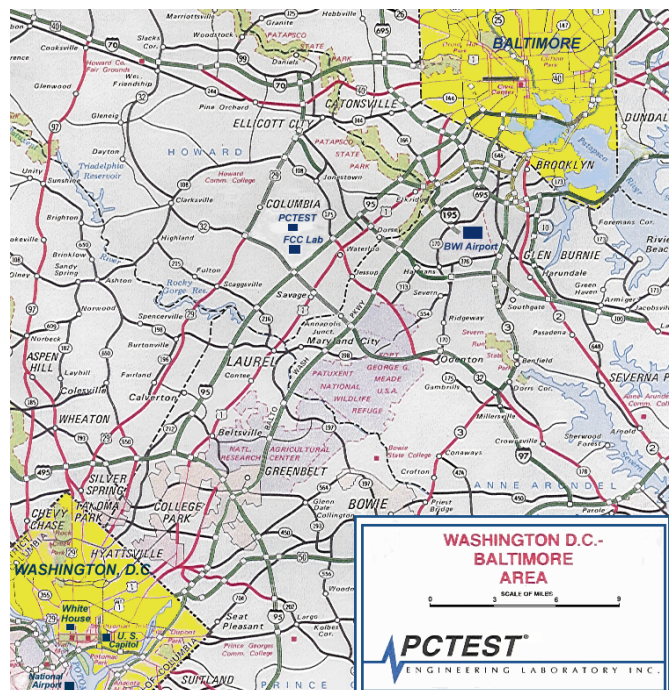


Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

| | | | | |
|------------------------------------|-----------------------------------|--|--|---------------------------------|
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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Delphi XpressRC XM Satellite Radio Receiver and FM Transmitter FCC ID: RS2XMXRC1**. The test data contained in this report pertains only to the emissions due to the FM band transmitter of the EUT.

| Manufacturer / Model | Description |
|-------------------------|---|
| Delphi / Model: SA10316 | XpressRC XM Satellite Radio Receiver and FM Transmitter |

Table 2-1. EUT Equipment Description

2.2 Operation Mode

The Delphi XpressRC XM Satellite Radio Receiver and FM Transmitter FCC ID: RS2XMXRC1 was set to transmit in the FM band. Please see Section 7.0 for more information on the test setup.



2.3 Test Configuration Descriptions

The Delphi XpressRC XM Satellite Radio Receiver and FM Transmitter was tested in a total of ten different configurations for unintentional and intentional emission compliance to FCC and IC standards. Below is a brief list of each configuration set-up. A detailed list of each set-up can be found in Section 7.0. Test results for test configurations 1 – 4 can be found in a separate FCC Part 15 verification test report.

| Test Configuration # | Emissions Tested | Description |
|----------------------|-----------------------|--|
| 1 | Unintentional | XpressRC with Home Cradle |
| 2 | Unintentional | XpressRC with Car Cradle and FM Direct Adapter |
| 3 | Unintentional | XpressRC with Car Cradle and Cassette Adapter |
| 4 | Unintentional | XpressRC with Car Cradle and Audio Out Cable |
| 5 | Occupied Bandwidth | XpressRC with Car Cradle and FM Direct |
| 6 | Intentional | XpressRC with Car Cradle and SureConnect with Whip Antenna |
| 7 | Intentional | XpressRC with Car Cradle and SureConnect with Vehicle Glass (Industry Canada Only) |
| 8 | Intentional (In-Situ) | XpressRC in Ford Expedition with SureConnect |
| 9 | Intentional (In-Situ) | XpressRC in Chevy Impala with SureConnect |
| 10 | Intentional (In-Situ) | XpressRC in Nissan Altima with SureConnect |

2.4 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

| | | | | |
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3.0 DESCRIPTION OF TEST

3.1 Radiated Emissions

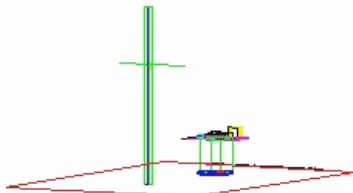


Figure 3-1. 3-Meter Test Site

Preliminary measurements were made indoors at 3-meter using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, and turntable azimuth with respect to the antenna was noted for each frequency found. The spectrum was scanned from 30 to 1000 MHz using a biconilog antenna. Above 1 GHz, linearly polarized double ridge horn antennas were used.

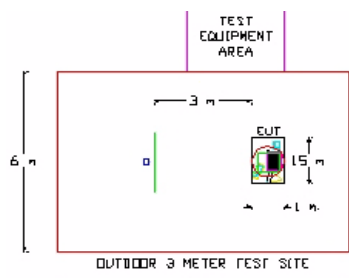


Figure 3-2. Dimensions of Outdoor Test Site

Final measurements were made outdoors at 3-meter test range using a broadband biconilog or horn antennas. The EUT was placed on an 0.8 meter high 1.5m x 1m wooden turn-table. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The detector function was set to CISPR quasi-peak mode, peak, or average mode as appropriate. The bandwidth of the spectrum analyzer was set to 120kHz for frequencies below 1GHz or 1MHz for frequencies above 1GHz. Above 1GHz the detector function was set to average mode (RBW = 1MHz, VBW = 10Hz). Exact measurements and settings are reported with the test data in Section 7.

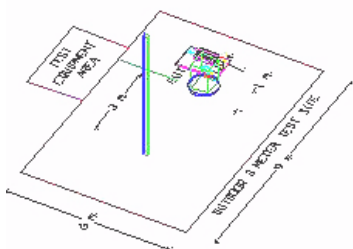


Figure 3-3. Turntable and System Setup

The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each EME emission. The turntable containing the system was rotated and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission.

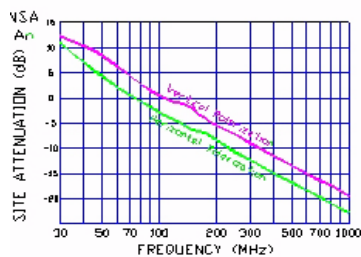


Figure 3-4. Normalized Site Attenuation Curves (H&V)

The EUT was tested in several configurations for showing compliance with the applicable FCC rules and IC requirements. Each setup is unique and individually described in the appropriate test section. In-situ testing was also performed using three different types of vehicles. Testing for in-situ was performed on all 4 sides of the vehicle and while tuned to 3 different FM stations. Prior to selecting the FM transmit station a scan of the ambient in the FM band was performed to determine the best stations (i.e. lowest ambient FM signal) to select for performing the test.

| | | | | |
|------------------------------------|-----------------------------------|--|--|---------------------------------|
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4.0 SAMPLE CALCULATIONS

4.1 Radiated Emission Measurement Sample Calculation



@ 66.7 MHz

| | | |
|-----------------------------|---|---|
| Class B limit | = | 100 $\mu\text{V}/\text{m}$ = 40.0 dB $\mu\text{V}/\text{m}$ |
| Reading | = | - 76.0 dBm (calibrated level) |
| Convert to dB μV | = | - 76.0 + 107 = 31.0 dB μV |
| Antenna Factor + Cable Loss | = | 5.8 dB/m |
| Total | = | 36.8 dB $\mu\text{V}/\text{m}$ |
| | | |
| Margin | = | 36.8 - 40.0 = - 3.2 dB |
| | = | 3.2 dB below limit |

Note:

$$\text{Level}_{[\text{dB}\mu\text{V}]} = 20 \log_{10} (\text{Level}_{[\mu\text{V}/\text{m}]})$$

$$\text{Level}_{[\text{dB}\mu\text{V}]} = \text{Level}_{[\text{dBm}]} + 107$$



| | | | | |
|------------------------------------|---|--|---|---------------------------------|
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5.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST).

| Manufacturer | Model / Equipment | Calibration Date | Cal Interval | Calibration Due | Serial No. |
|-------------------|---|------------------|--------------|-----------------|---------------------------|
| Agilent | E4407B ESA Spectrum Analyzer | 04/29/07 | Annual | 04/28/08 | US39210313 |
| Agilent | HP 8566B (100Hz-22GHz) Spectrum Analyzer | 12/21/06 | Annual | 12/21/07 | 3638A08713 |
| Agilent | HP 8591A (9kHz-1.8GHz) Spectrum Analyzer | 09/20/06 | Annual | 09/20/07 | 3144A02458 |
| Agilent | HP 8591A (9kHz-1.8GHz) Spectrum Analyzer | 09/20/06 | Annual | 09/20/07 | 3108A02053, 3034A01395 |
| Agilent | E8257D (250kHz-20GHz) Signal Generator | 03/08/07 | Annual | 03/07/08 | MY45470194 |
| CCA-7 | CISPR QP Adapter | 12/21/06 | Annual | 12/21/07 | 0194-04082 |
| CCA-7 | CISPR QP Adapter | 12/21/06 | Annual | 12/21/07 | 0194-04082 |
| Agilent | HP 85650A Quasi-Peak Adapter | 12/21/06 | Annual | 12/21/07 | 2043A00301 |
| Agilent | HP 8449B (1-26.5GHz) Pre-Amplifier | 12/12/06 | Annual | 12/12/07 | 3008A00985 |
| Agilent | HP 11713A Attenuation/Switch Driver | 12/12/06 | Annual | 12/12/07 | N/A |
| Agilent | HP 85685A (20Hz-2GHz) Preselector | 12/12/06 | Annual | 12/12/07 | N/A |
| Agilent | HP 8566B Opt. 462 Impulse Bandwidth | 12/12/06 | Annual | 12/12/07 | 3701A22204 |
| Compliance Design | A100 Roberts Dipoles | 08/31/05 | Biennial | 08/31/07 | 5118 |
| Sunol Sciences | Bi-Log Antenna | 05/25/07 | Annual | 05/25/08 | A051107 |
| SOLAR | 8012-50 LISN (2) | 11/18/05 | Biennial | 11/18/07 | 0313233, 0310234 |
| Pasternack | PE7000-6 6 dB Attenuator | N/A | | N/A | N/A |
| - | No.165 (30MHz - 1000MHz) RG58 Coax Cable | N/A | | N/A | N/A |
| - | No.166 (1000-26500MHz) Microwave RF Cable | N/A | | N/A | N/A |
| - | No.167 (100kHz - 100MHz) RG58 Coax Cable | N/A | | N/A | N/A |
| Rohde & Schwarz | NRV-Z33 Peak Power Sensor (1mW-20W) | 11/28/06 | Biennial | 11/27/08 | 100155 |
| Rohde & Schwarz | NRV-Z32 Peak Power Sensor (100uW-2W) | 12/21/06 | Biennial | 12/20/08 | 100004 |
| EMCO | 3116 Horn Antenna (18 - 40GHz) | 09/25/05 | Biennial | 09/25/07 | 9203-2178 |

Table 5-1. Annual Test Equipment Calibration Schedule



| | | | |
|------------------------------------|---|--|---------------------------------|
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6.0 ENVIRONMENTAL CONDITIONS

The temperature is controlled within range of 15°C to 35°C.

The relative humidity is controlled within range of 10% to 75%.

The atmospheric pressure is controlled within the range 86-106kPa (860-1060mbar).

| | | | | |
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7.0 TEST DATA

7.1 Summary

Company Name: XM Satellite Radio, Inc.
 FCC ID: RS2XMRC1
 IC Cert. No.: 5697A-SA10316
 Frequencies Examined: 88.1MHz – 107.9MHz

| FCC Part Section(s) | IC Section | Test Description | Test Limit | Test Condition | Test Result | Reference |
|--|-------------------|--|---|----------------------------------|-------------|----------------------|
| TRANSMITTER MODE (Tx) | | | | | | |
| 15.239(a) | RSS-210 (A2.8) | Bandwidth | < 200 kHz | CONDUCTED | PASS | Section 7.2 |
| 15.239(a) | RSS-210 (A2.8) | Frequency of Operation | 88 – 108 MHz | | PASS | Section 7.2 |
| 15.239(b) | RSS-210 (A2.8(1)) | In-Band Emissions | < 250µV/m within permitted 200 kHz band | RADIATED | PASS | Sections 7.4 and 7.6 |
| N/A | RSS-210 (A2.8) | Emissions with In-Glass FM Antenna | < 1000µV/m within the permitted 200 kHz band | | PASS | Section 7.5 |
| 15.239(c) 15.209 | RSS-210 (2.7) | Out-of-Band Emissions | Emissions outside of the specified band must meet the radiated limits detailed in 15.209 (RSS-210 table 3 limits) | | PASS | Sections 7.7 and 7.8 |
| 15.207 | RSS-Gen | AC Conducted Emissions 150kHz – 30MHz | < FCC 15.207 limits or < RSS-Gen table 2 limits | LINE CONDUCTED | N/A | N/A |
| RECEIVER MODE (Rx) / DIGITAL DEVICE | | | | | | |
| 15.107 | RSS-Gen | AC Conducted Emissions 150kHz – 30MHz | < FCC 15.107 limits or < RSS-Gen table 2 limits | LINE CONDUCTED | PASS | Part 15B Test Report |
| 15.109 | RSS-Gen | General Field Strength Limits (Restricted Bands and Radiated Emissions Limits) | < FCC 15.109 limits or < RSS-Gen limits [Section 6; Table1] | RADIATED (30MHz-1GHz) (1-25 GHz) | PASS | Part 15B Test Report |

Table 7-1 Summary of Test Results

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: RS2XMRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
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7.2 200 kHz Bandwidth Measurement

§15.239 (a), RSS-210 (A2.8)

The FM transmitter was set to maximum audio output and was tuned between 88.1MHz and 107.9MHz, the only frequencies allowed by the EUT. The bandwidth at 20dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the receive antenna of the EUT. The EUT's 20dB bandwidth was measured at three frequencies in the FM band and in each of two configurations: 1) while receiving a live XM signal and 2) while replaying saved songs. All measurements were made on the spectrum analyzer with the detector set to peak while max holding the trace. **The maximum permissible bandwidth is 200 kHz.**

It was verified that the FM transmitter only allowed selection of FM frequencies from 88.1 to 107.9 MHz in 200kHz increments.

| Frequency [MHz] | Mode | 200 kHz Bandwidth Test Results | |
|-----------------|------------|--------------------------------|-----------|
| | | [kHz] | Pass/Fail |
| 88.1 | Live | 192.15 | Pass |
| 96.9 | Live | 170.50 | Pass |
| 107.9 | Live | 168.15 | Pass |
| 88.1 | Song Saver | 176.10 | Pass |
| 96.9 | Song Saver | 162.30 | Pass |
| 107.9 | Song Saver | 182.65 | Pass |

Table 7-2. 200kHz Bandwidth Measurements – Test Configuration #5

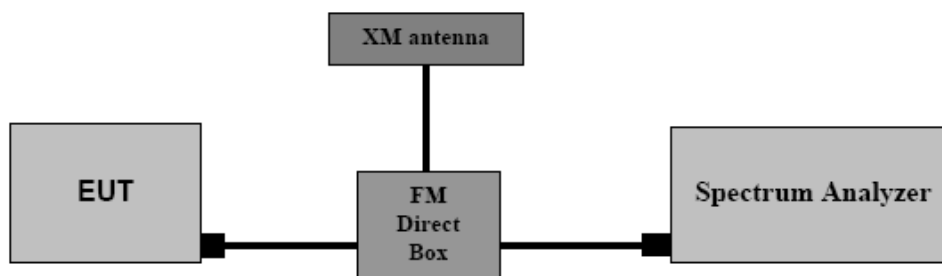


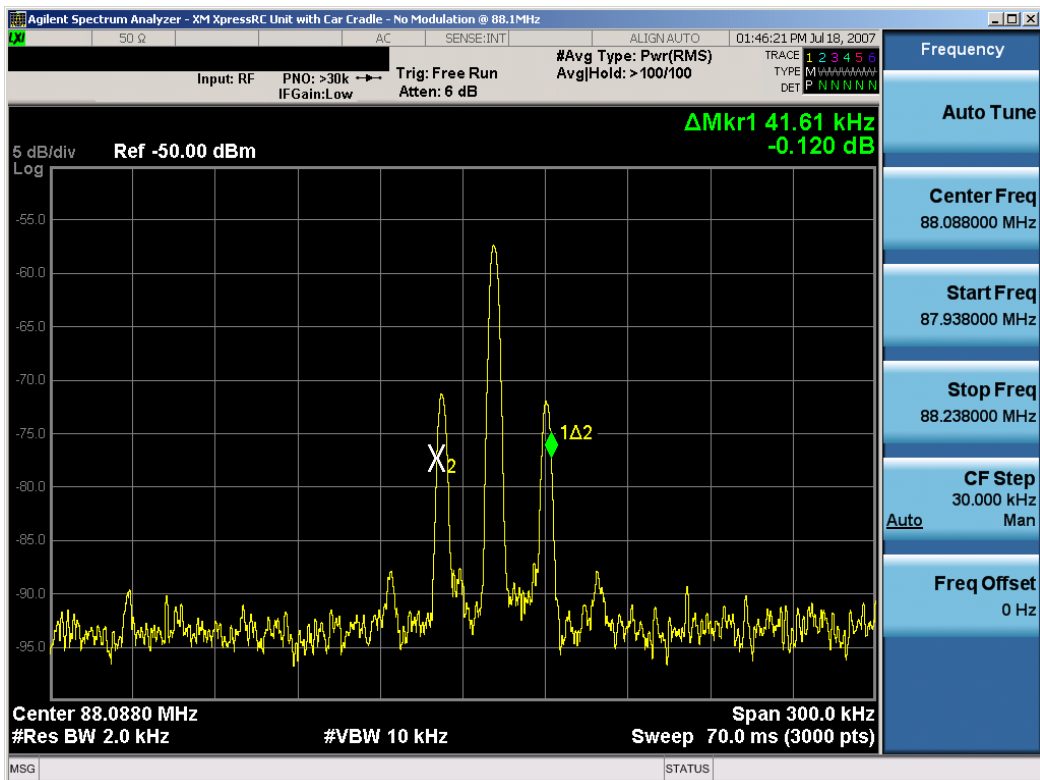


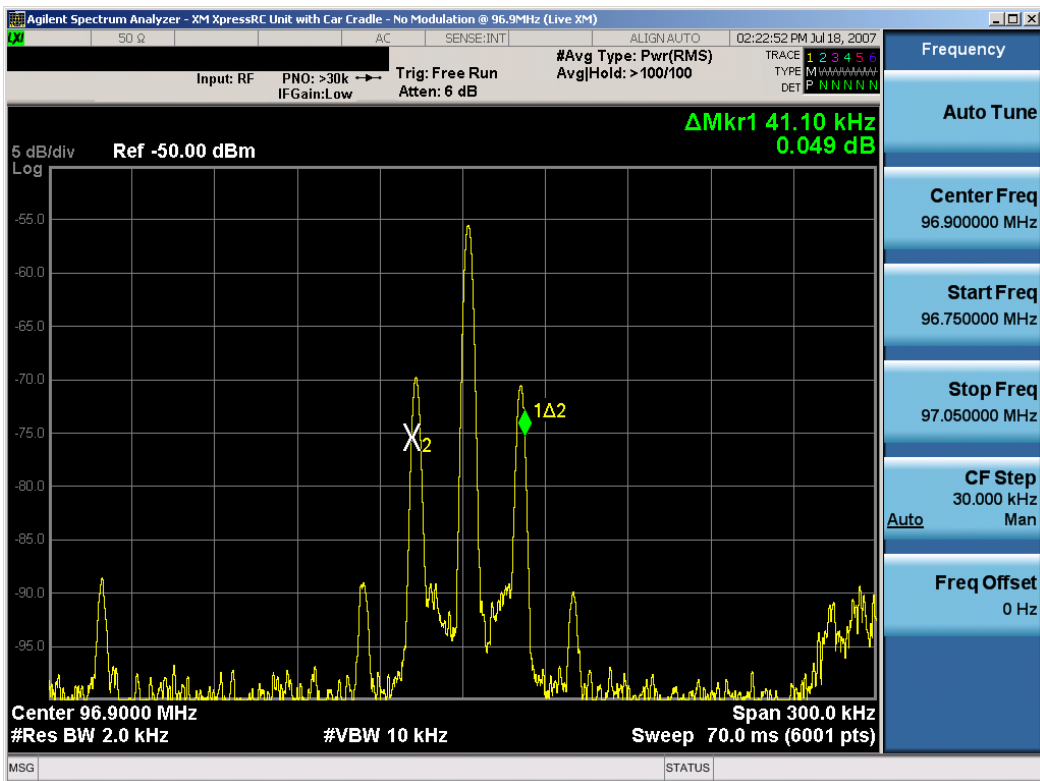
Figure 7-1. Test Instrument & Measurement Setup

The following figures are plots of the emission bandwidth both with modulation and without modulation. These plots are obtained with the spectrum analyzer set to Peak Detector mode and Max Hold as indicated in the top right box under the test date. The “TYPE” is “M” indicating max hold and the “DET” is “P” indicating Peak Detector. The information pertaining to “Avg. Type” and “Avg. Hold” is not applicable to these plots and would only be applicable if an average measurement were being performed.

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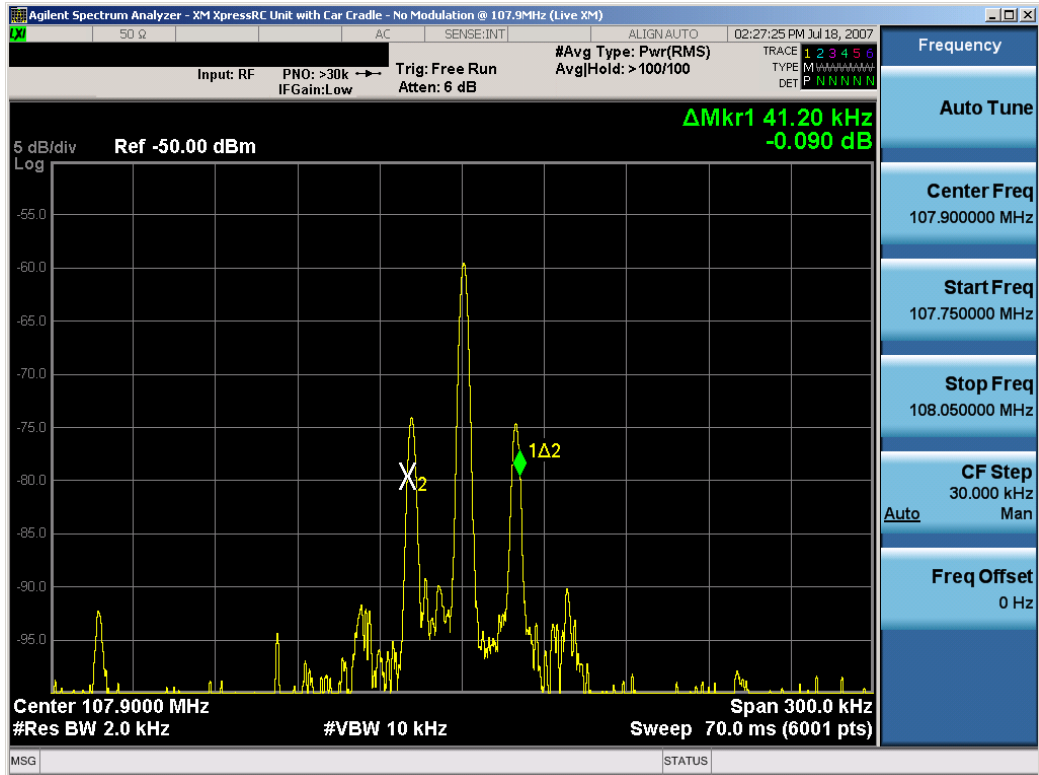


Plot 7-1. Bandwidth Plot at 88.1MHz with No Modulation



Plot 7-2. Bandwidth Plot at 96.9MHz with No Modulation

| | | | | |
|------------------------------------|-----------------------------------|--|--|---------------------------------|
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Plot 7-3. Bandwidth Plot at 107.9MHz with No Modulation

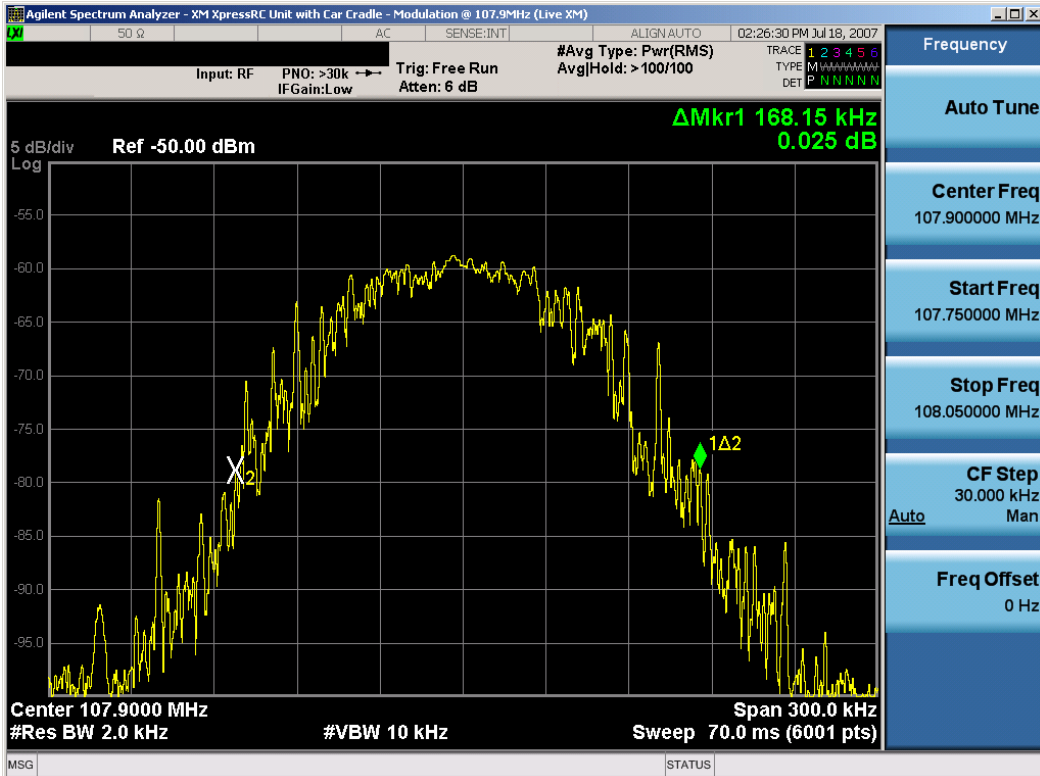


Plot 7-4. Bandwidth Plot at 88.1MHz with Modulation (Live XM Signal)



| | | | | |
|---------------------------------|--------------------------------|---|--|------------------------------|
| FCC ID: RS2XMXRC1 | | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0707180737.RS2 | Test Dates: July 19 - 23, 2007 | EUT Type: XpressRC XM Satellite Radio Receiver and FM Transmitter | | Page 13 of 40 |

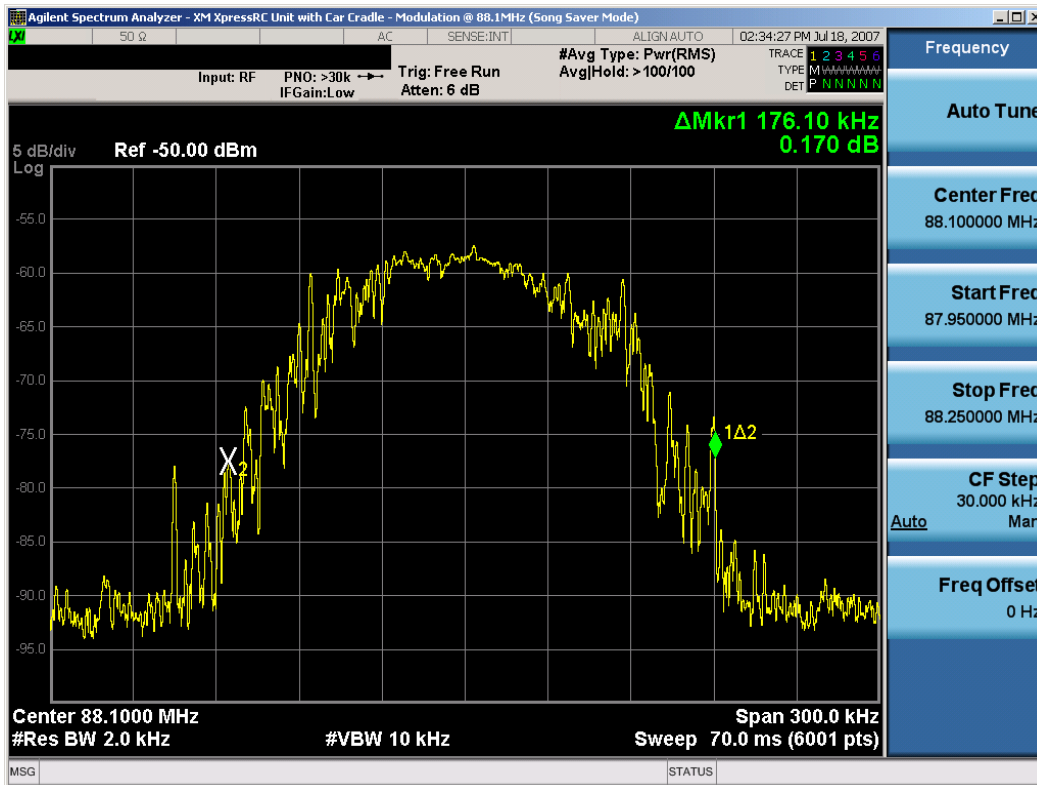


Plot 7-5. Bandwidth Plot at 96.9MHz with Modulation (Live XM Signal)

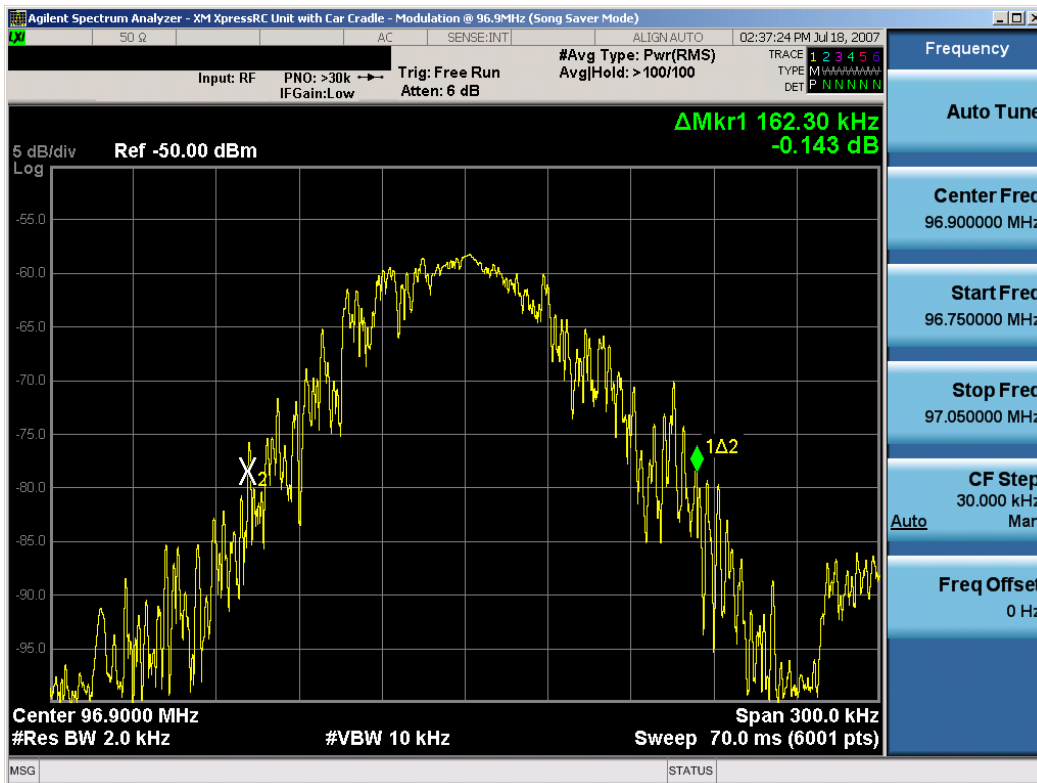


Plot 7-6. Bandwidth Plot at 107.9MHz with Modulation (Live XM Signal)

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: RS2XMXRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0707180737.RS2 | Test Dates: July 19 - 23, 2007 | EUT Type: XpressRC XM Satellite Radio Receiver and FM Transmitter | | Page 14 of 40 |



Plot 7-7. Bandwidth Plot at 88.1MHz with Modulation (Song Saver Mode)



Plot 7-8. Plot at 96.9MHz with Modulation (Song Saver Mode)

| | | | | |
|------------------------------------|-----------------------------------|--|--|---------------------------------|
| FCC ID: RS2XMXRC1 | | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0707180737.RS2 | Test Dates: July 19 - 23, 2007 | EUT Type: XpressRC XM Satellite Radio Receiver and FM Transmitter | | Page 15 of 40 |



Plot 7-9. Plot at 107.9MHz with Modulation (Song Saver Mode)

| | | | | |
|------------------------------------|-----------------------------------|--|--|---------------------------------|
| FCC ID: RS2XMXRC1 | | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0707180737.RS2 | Test Dates: July 19 - 23, 2007 | EUT Type: XpressRC XM Satellite Radio Receiver and FM Transmitter | | Page 16 of 40 |

7.3 Radiated Spurious Emission Measurements

§15.239 (b)(c) / §15.209 / RSS-210 (A2.8)

The EUT was tested from 9kHz up to the 10th harmonic of the highest in-band frequency of the transmitter. All measurements were recorded with a spectrum analyzer employing an average detector. Above 1 GHz, a linearly polarized horn antenna was used for measurements. All out-of-band emissions must not exceed the limits shown in Table 7-3 per Section 15.209.

| Frequency | Field Strength [μV/m] | Measured Distance [Meters] |
|-------------------|-----------------------|----------------------------|
| 0.009 – 0.490 MHz | 2400/F (kHz) | 300 |
| 0.490 – 1.705 MHz | 24000/F (kHz) | 30 |
| 1.705 – 30.00 MHz | 30 | 30 |
| 30.00 – 88.00 MHz | 100 | 3 |
| 88.00 – 216.0 MHz | 150 | 3 |
| 216.0 – 960.0 MHz | 200 | 3 |
| Above 960.0 MHz | 500 | 3 |



Table 7-3. Radiated Limits

Sample Calculation

- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB]

Notes:

- AFCL = Antenna Factor [dB] + Cable Loss [dB]

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: RS2XMXRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0707180737.RS2 | Test Dates: July 19 - 23, 2007 | EUT Type: XpressRC XM Satellite Radio Receiver and FM Transmitter | Page 17 of 40 | |

7.4 In-Band Radiated Spurious Emission Measurements – FM Aerial Antenna

§15.239 (b) / §15.209, RSS-210 (A2.8)

Mode: Live XM Signal

Measurement Distance: 3 Meters

Frequencies Tested: 88.1, 96.9, 107.9MHz

The XM Radio Receiver FCC ID: RS2XMXRC1 was connected to the vehicle cradle powered by a 12V battery through a cigarette lighter vehicle adapter. The vehicle cradle was connected to an XM antenna through a SureConnect FM coupler splitter box. The EUT is coupled to an FM antenna through the splitter box. The FM antenna was placed on a 3'x4' ground plane which was used in the setup to replicate the conditions in which an FM antenna is installed in a vehicle. The EUT was tested with a maximum audio output level in each of two configurations: 1) while receiving a live XM signal and 2) while replaying saved songs. The EUT was tested on a turn-table while maintaining a distance of 10 cm between the edges of all items on the setup table.

The following diagram depicts the test setup for Configuration #6. Photographs of equipment and cable placement can be found in the Test Setup Photographs.

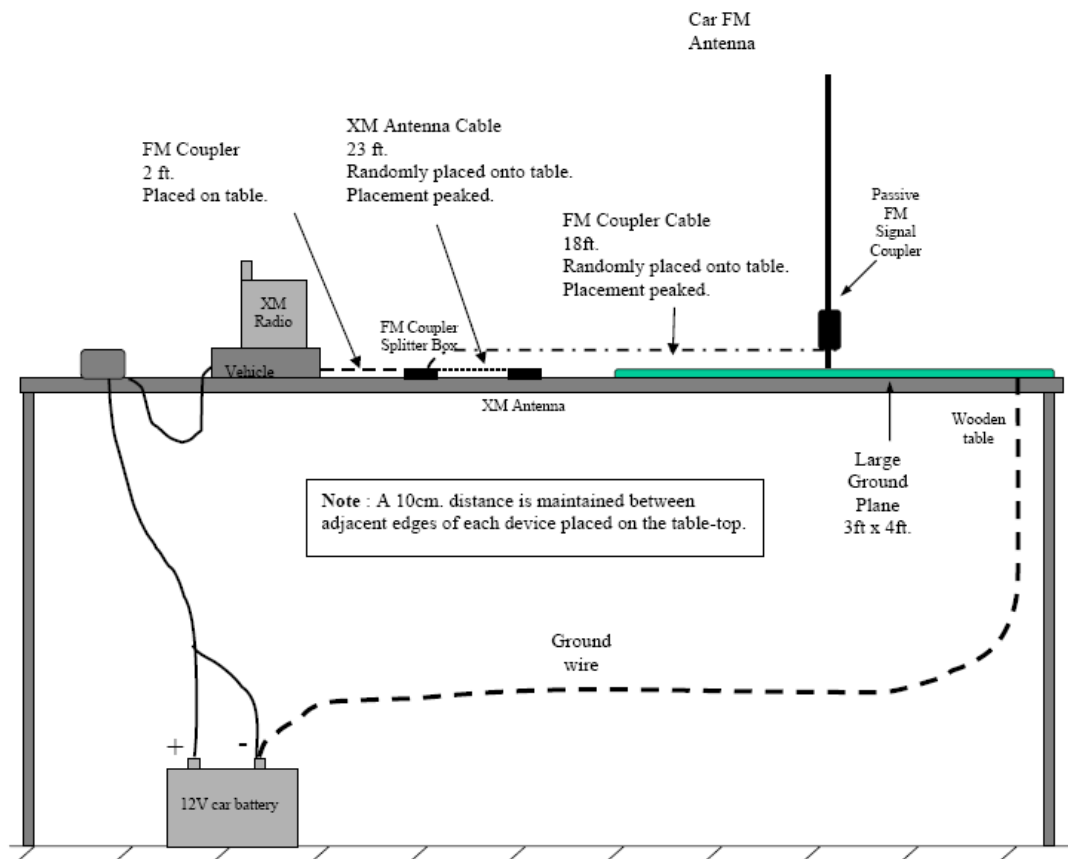


Figure 7-2. Test Setup Configuration #6

| | | | | |
|------------------------------------|-----------------------------------|--|--|---------------------------------|
| FCC ID: RS2XMXRC1 | | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0707180737.RS2 | Test Dates: July 19 - 23, 2007 | EUT Type: XpressRC XM Satellite Radio Receiver and FM Transmitter | | Page 18 of 40 |

| Frequency [MHz] | Average Level [dBm] | AFCL [dB] | Pol [H/V] | Field Strength [dB μ V/m] | Limit [dB μ V/m] | Margin [dB] |
|-----------------|---------------------|-----------|-----------|-------------------------------|----------------------|-------------|
| 88.50 | -71.47 | 8.90 | H | 44.44 | 47.96 | -3.52 |
| 96.90 | -76.26 | 10.68 | H | 41.42 | 47.96 | -6.54 |
| 107.70 | -75.01 | 11.34 | H | 43.33 | 47.96 | -4.63 |



Table 7-4. In-Band Radiated Measurements (Live XM Signal) – Test Configuration #6

| Frequency [MHz] | Average Level [dBm] | AFCL [dB] | Pol [H/V] | Field Strength [dB μ V/m] | Limit [dB μ V/m] | Margin [dB] |
|-----------------|---------------------|-----------|-----------|-------------------------------|----------------------|-------------|
| 88.50 | -76.26 | 8.90 | H | 39.65 | 47.96 | -8.31 |
| 96.90 | -78.43 | 10.68 | H | 39.25 | 47.96 | -8.71 |
| 107.70 | -72.64 | 10.68 | H | 40.22 | 47.96 | -7.74 |

Table 7-5. In-Band Radiated Measurements (Song Saver) – Test Configuration #6

NOTES:

1. All measurements were recorded using a spectrum analyzer employing an average detector with RBW equal to 120kHz and VBW equal to 100Hz. Peak levels were within 20dB of recorded average levels.
2. Both horizontal and vertical polarities were measured with the worst case levels reported.
3. The EUT was supplied with a fully-recharged 12V battery.
4. Within the permitted band of 88 – 108MHz the radiated limit is 250 μ V/m (47.96 dB μ /m) at 3 meters.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: RS2XMXRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0707180737.RS2 | Test Dates: July 19 - 23, 2007 | EUT Type: XpressRC XM Satellite Radio Receiver and FM Transmitter | | Page 19 of 40 |

7.5 In-Band Radiated Spurious Emission Measurements – Industry Canada RSS-210 (A2.8)

Mode: Live XM Signal

Measurement Distance: 3 Meters

Frequencies Tested: 88.1, 96.9, 107.9MHz

The XM Radio Receiver FCC ID: RS2XMXRC1 was connected to the vehicle cradle powered by a 12V battery through a cigarette lighter vehicle adaptor. A vehicle window with a built-in FM antenna was used to couple the EUT to the FM antenna by means of the SureConnect FM splitter box. The FM antenna was coupled to the EUT in five different locations along the FM antenna path on the vehicle window in order to maximize the emissions. The window was set up in a holder set on top of a 3' x 4' ground plane which was used in the setup to replicate the conditions in which an FM antenna is installed in a vehicle. The EUT was configured to receive live XM broadcast signal and was configured for a maximum audio output level. A distance of 10 cm was maintained between the edges of all items on the setup table.

The following diagram is for the test setup configuration #7. Photographs of equipment and cable placement can be found in the Test Setup Photographs.

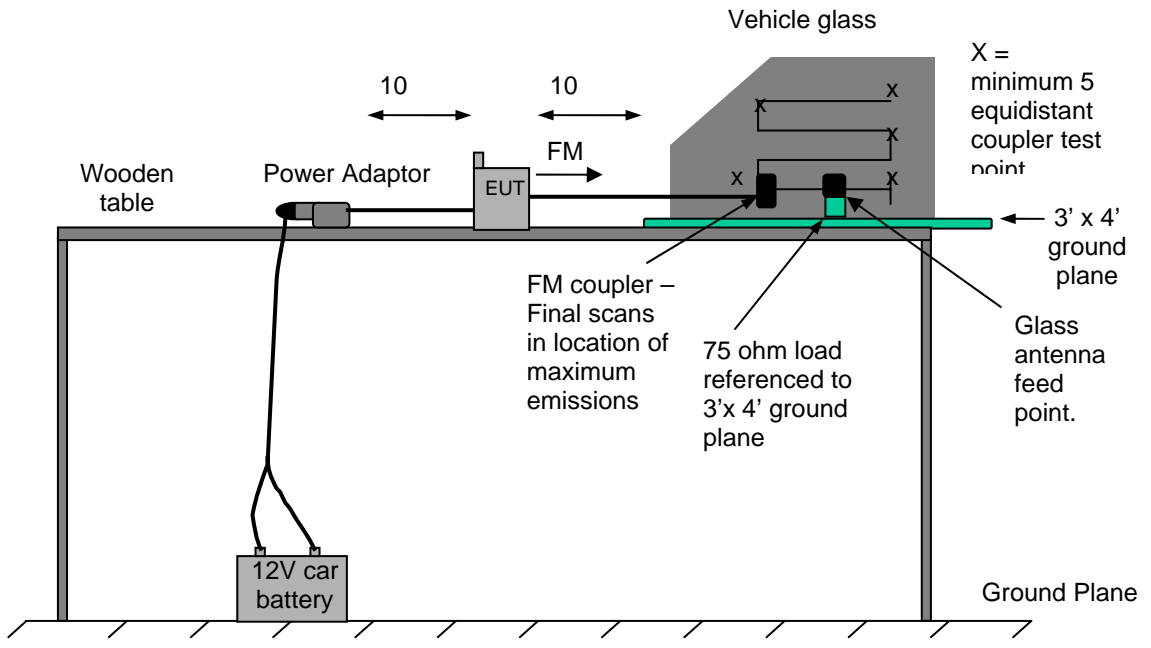




Figure 7-3. Test Setup Configuration #7



| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: RS2XMXRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0707180737.RS2 | Test Dates: July 19 - 23, 2007 | EUT Type: XpressRC XM Satellite Radio Receiver and FM Transmitter | | Page 20 of 40 |

| Frequency [MHz] | Average Level [dBm] | AFCL [dB] | Pol [H/V] | Field Strength [dB μ V/m] | Limit [dB μ V/m] | Margin [dB] |
|-----------------|---------------------|-----------|-----------|-------------------------------|----------------------|-------------|
| 88.10 | -77.54 | 8.90 | H | 38.36 | 60.00 | -21.64 |
| 97.50 | -79.28 | 10.68 | H | 38.40 | 60.00 | -21.60 |
| 107.50 | -76.59 | 11.34 | H | 40.22 | 60.00 | -19.78 |

Table 7-6. In-Band Radiated Measurements (I.C.) – Test Configuration #7

NOTES:

1. All measurements were recorded using a spectrum analyzer employing an average detector with RBW equal to 120kHz and VBW equal to 100Hz. Peak levels were within 20dB of recorded average levels.
2. Both horizontal and vertical polarities were measured with the worst case levels reported.
3. The EUT was supplied with a fully-recharged 12V battery.
4. Within the permitted band of 88 – 108MHz the radiated limit is 1000 μ V/m (60 dB μ /m) at 3 meters.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: RS2XMXRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0707180737.RS2 | Test Dates: July 19 - 23, 2007 | EUT Type: XpressRC XM Satellite Radio Receiver and FM Transmitter | Page 21 of 40 | |



7.6 In-Band Radiated Spurious Emission Measurements – In-Situ §15.239 (b) / §15.209

Mode: Live XM Signal

Measurement Distance: 3 Meters

Frequencies Tested: 88.1, 96.9, 107.9MHz

The XM Radio Receiver Model: SA10316 was connected to the vehicle cradle powered by the cigarette lighter jack of three different vehicles: a Ford Expedition, a Chevy Impala, and a Nissan Altima. These vehicles each contain an in-glass FM antenna system.

The vehicle cradle was connected to an XM antenna through an FM coupler splitter box. The EUT is coupled to the FM antenna on the vehicle's rear window through the splitter box with a SureConnect FM coupler. The FM coupler position was varied along the path of the in-glass FM antenna to find the coupler placement that produced the highest emissions.



The EUT was configured to receive live XM broadcast signal and was configured for a maximum audio output level. The antenna mast was rolled along each side of the vehicle along a track that maintained a distance of 3 meters from the periphery of the vehicle. At the emission peak, the antenna mast height was adjusted between 1 to 4 meters to maximize the emission. Frequencies were chosen in each setup where local FM signals were weakest.

Testing was performed with the receive antenna positioned both vertically and horizontally. All in-situ measurements were performed with the RBW set to 120kHz and the VBW set to 300kHz for peak measurements and then with the VBW set to 100Hz for the average measurements.

The process described above was repeated for each side of the vehicle and at the three FM frequencies listed above.

A diagram of the in-situ test setup is shown in Figure 7-4.

Photographs of equipment and each vehicle can be found in the Test Setup Photographs Exhibit.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: RS2XMRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0707180737.RS2 | Test Dates: July 19 - 23, 2007 | EUT Type: XpressRC XM Satellite Radio Receiver and FM Transmitter | Page 22 of 40 | |

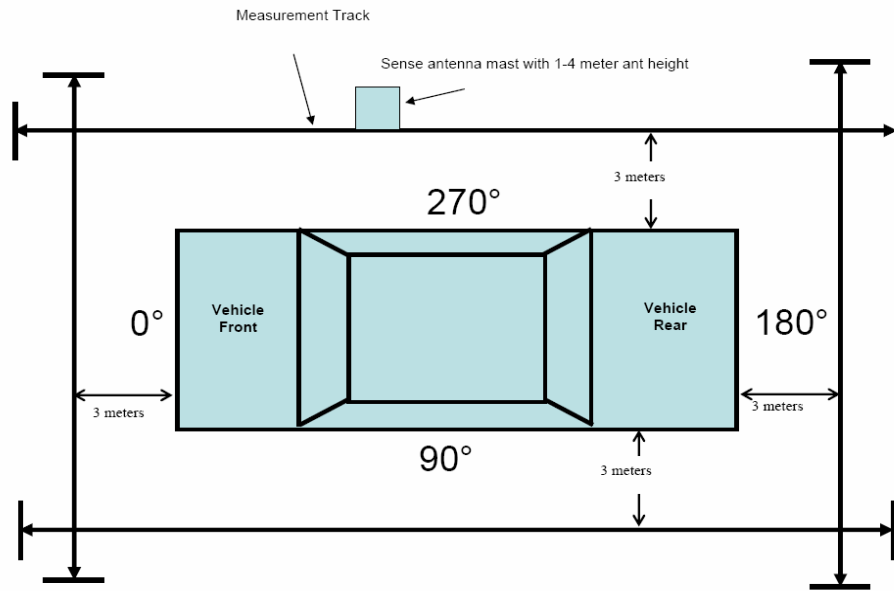
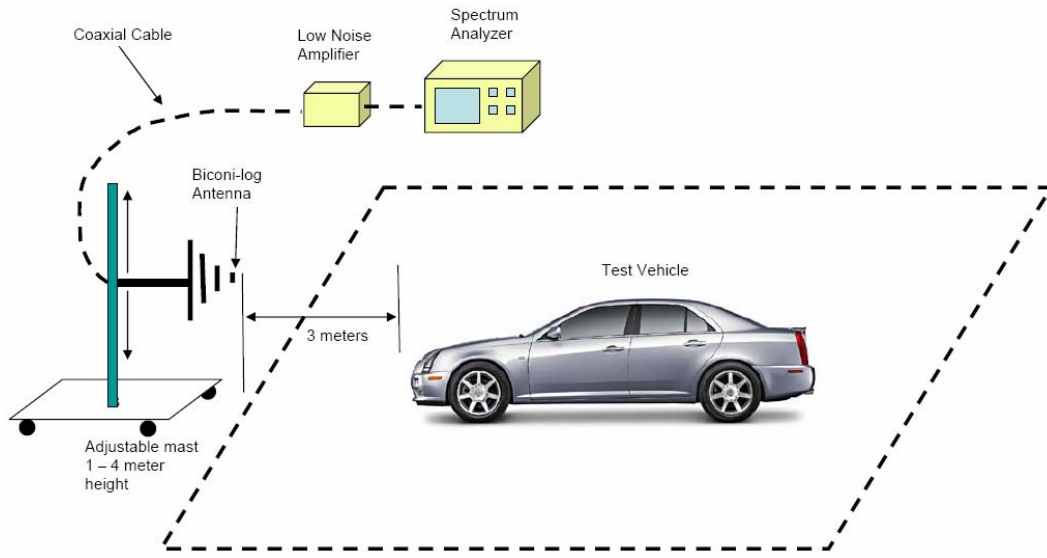




Figure 7-4. In-Situ Test Setup Diagram

| | | | | |
|------------------------------------|-----------------------------------|--|--|---------------------------------|
| FCC ID: RS2XMXRC1 | | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0707180737.RS2 | Test Dates: July 19 - 23, 2007 | EUT Type: XpressRC XM Satellite Radio Receiver and FM Transmitter | | Page 23 of 40 |

7.6.1 Radiated Measurement Data for Ford Expedition
§15.239 (b) / §15.209

| Frequency [MHz] | Level [dBm] | Detector | AFCL [dB] | Pol [H/V] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|-------------|----------|-----------|-----------|-------------------------|----------------|-------------|
| 91.70 | -91.96 | Avg | 11.42 | V | 26.46 | 47.96 | -21.50 |
| 91.70 | -86.16 | Peak | 11.42 | V | 32.26 | 67.96 | -35.70 |
| 97.50 | -83.75 | Avg | 11.65 | V | 34.90 | 47.96 | -13.06 |
| 97.50 | -77.35 | Peak | 11.65 | V | 41.30 | 67.96 | -26.66 |
| 107.50 | -86.89 | Avg | 12.13 | V | 32.24 | 47.96 | -15.72 |
| 107.50 | -82.39 | Peak | 12.13 | V | 36.74 | 67.96 | -31.22 |
| 91.70 | -89.16 | Avg | 11.42 | H | 29.26 | 47.96 | -18.70 |
| 91.70 | -83.46 | Peak | 11.42 | H | 34.96 | 67.96 | -33.00 |
| 97.50 | -85.05 | Avg | 11.65 | H | 33.60 | 47.96 | -14.36 |
| 97.50 | -78.85 | Peak | 11.65 | H | 39.80 | 67.96 | -28.16 |
| 107.50 | -86.39 | Avg | 12.13 | H | 32.74 | 47.96 | -15.22 |
| 107.50 | -82.29 | Peak | 12.13 | H | 36.84 | 67.96 | -31.12 |

Table 7-7. In-Band Radiated Measurements (Ford Expedition) – Test Configuration #8 (Front Side – 0 degrees)



| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: RS2XMXRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0707180737.RS2 | Test Dates: July 19 - 23, 2007 | EUT Type: XpressRC XM Satellite Radio Receiver and FM Transmitter | | Page 24 of 40 |

| Frequency [MHz] | Level [dBm] | Detector | AFCL [dB] | Pol [H/V] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|-------------|----------|-----------|-----------|-------------------------|----------------|-------------|
| 91.70 | -88.86 | Avg | 11.42 | V | 29.56 | 47.96 | -18.40 |
| 91.70 | -84.26 | Peak | 11.42 | V | 34.16 | 67.96 | -33.80 |
| 97.50 | -81.35 | Avg | 11.65 | V | 37.30 | 47.96 | -10.66 |
| 97.50 | -76.25 | Peak | 11.65 | V | 42.40 | 67.96 | -25.56 |
| 105.30 | -88.19 | Avg | 12.13 | V | 30.94 | 47.96 | -17.02 |
| 105.30 | -84.29 | Peak | 12.13 | V | 34.84 | 67.96 | -33.12 |
| 91.70 | -84.96 | Avg | 11.42 | H | 33.46 | 47.96 | -14.50 |
| 91.70 | -80.06 | Peak | 11.42 | H | 38.36 | 67.96 | -29.60 |
| 97.50 | -80.15 | Avg | 11.65 | H | 38.50 | 47.96 | -9.46 |
| 97.50 | -75.75 | Peak | 11.65 | H | 42.90 | 67.96 | -25.06 |
| 105.30 | -86.79 | Avg | 12.13 | H | 32.34 | 47.96 | -15.62 |
| 105.30 | -82.19 | Peak | 12.13 | H | 36.94 | 67.96 | -31.02 |

Table 7-8. In-Band Radiated Measurements (Ford Expedition) – Test Configuration #8 (Rear Side – 180 degrees)

| Frequency [MHz] | Level [dBm] | Detector | AFCL [dB] | Pol [H/V] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|-------------|----------|-----------|-----------|-------------------------|----------------|-------------|
| 91.70 | -84.16 | Avg | 11.42 | V | 34.26 | 47.96 | -13.70 |
| 91.70 | -78.46 | Peak | 11.42 | V | 39.96 | 67.96 | -28.00 |
| 97.50 | -84.25 | Avg | 11.65 | V | 34.40 | 47.96 | -13.56 |
| 97.50 | -78.15 | Peak | 11.65 | V | 40.50 | 67.96 | -27.46 |
| 107.50 | -86.39 | Avg | 12.13 | V | 32.74 | 47.96 | -15.22 |
| 107.50 | -82.29 | Peak | 12.13 | V | 36.84 | 67.96 | -31.12 |
| 91.70 | -85.06 | Avg | 11.42 | H | 33.36 | 47.96 | -14.60 |
| 91.70 | -80.46 | Peak | 11.42 | H | 37.96 | 67.96 | -30.00 |
| 97.50 | -83.75 | Avg | 11.65 | H | 34.90 | 47.96 | -13.06 |
| 97.50 | -77.55 | Peak | 11.65 | H | 41.10 | 67.96 | -26.86 |
| 107.50 | -87.89 | Avg | 12.13 | H | 31.24 | 47.96 | -16.72 |
| 107.50 | -84.49 | Peak | 12.13 | H | 34.64 | 67.96 | -33.32 |

Table 7-9. In-Band Radiated Measurements (Ford Expedition) – Test Configuration #8 (Driver Side – 90 degrees)

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: RS2XMXRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0707180737.RS2 | Test Dates: July 19 - 23, 2007 | EUT Type: XpressRC XM Satellite Radio Receiver and FM Transmitter | | Page 25 of 40 |



| Frequency [MHz] | Level [dBm] | Detector | AFCL [dB] | Pol [H/V] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|-------------|----------|-----------|-----------|-------------------------|----------------|-------------|
| 91.70 | -81.16 | Avg | 11.42 | V | 37.26 | 47.96 | -10.70 |
| 91.70 | -76.46 | Peak | 11.42 | V | 41.96 | 67.96 | -26.00 |
| 97.50 | -82.05 | Avg | 11.65 | V | 36.60 | 47.96 | -11.36 |
| 97.50 | -78.15 | Peak | 11.65 | V | 40.50 | 67.96 | -27.46 |
| 105.30 | -85.39 | Avg | 12.13 | V | 33.74 | 47.96 | -14.22 |
| 105.30 | -80.09 | Peak | 12.13 | V | 39.04 | 67.96 | -28.92 |
| 91.70 | -80.93 | Avg | 11.42 | H | 37.49 | 47.96 | -10.47 |
| 91.70 | -77.56 | Peak | 11.42 | H | 40.86 | 67.96 | -27.10 |
| 97.50 | -82.05 | Avg | 11.65 | H | 36.60 | 47.96 | -11.36 |
| 97.50 | -76.00 | Peak | 11.65 | H | 42.65 | 67.96 | -25.31 |
| 105.30 | -83.29 | Avg | 12.13 | H | 35.84 | 47.96 | -12.12 |
| 105.30 | -78.79 | Peak | 12.13 | H | 40.34 | 67.96 | -27.62 |

Table 7-10. In-Band Radiated Measurements (Ford Expedition) – Test Configuration #8 (Passenger Side – 270 degrees)

7.6.2 Radiated Measurement Data for Chevy Impala
§15.239 (b) / §15.209

| Frequency [MHz] | Level [dBm] | Detector | AFCL [dB] | Pol [H/V] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|-------------|----------|-----------|-----------|-------------------------|----------------|-------------|
| 91.70 | -78.53 | Avg | 11.42 | V | 39.89 | 47.96 | -8.07 |
| 91.70 | -76.21 | Peak | 11.42 | V | 42.21 | 67.96 | -25.75 |
| 98.30 | -90.90 | Avg | 11.65 | V | 27.75 | 47.96 | -20.21 |
| 98.30 | -83.81 | Peak | 11.65 | V | 34.84 | 67.96 | -33.12 |
| 105.30 | -89.91 | Avg | 12.13 | V | 29.22 | 47.96 | -18.74 |
| 105.30 | -81.06 | Peak | 12.13 | V | 38.07 | 67.96 | -29.89 |
| 91.70 | -89.21 | Avg | 11.42 | H | 29.21 | 47.96 | -18.75 |
| 91.70 | -84.32 | Peak | 11.42 | H | 34.10 | 67.96 | -33.86 |
| 98.30 | -91.10 | Avg | 11.65 | H | 27.55 | 47.96 | -20.41 |
| 98.30 | -85.73 | Peak | 11.65 | H | 32.92 | 67.96 | -35.04 |
| 105.30 | -96.97 | Avg | 12.13 | H | 22.16 | 47.96 | -25.80 |
| 105.30 | -89.95 | Peak | 12.13 | H | 29.18 | 67.96 | -38.78 |

Table 7-11. In-Band Radiated Measurements (Chevy Impala) – Test Configuration #9 (Front Side – 0 degrees)



| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: RS2XMXRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0707180737.RS2 | Test Dates: July 19 - 23, 2007 | EUT Type: XpressRC XM Satellite Radio Receiver and FM Transmitter | | Page 26 of 40 |

| Frequency [MHz] | Level [dBm] | Detector | AFCL [dB] | Pol [H/V] | Field Strength [dB μ V/m] | Limit [dB μ V/m] | Margin [dB] |
|-----------------|-------------|----------|-----------|-----------|-------------------------------|----------------------|-------------|
| 91.70 | -75.65 | Avg | 11.42 | V | 42.77 | 47.96 | -5.19 |
| 91.70 | -73.52 | Peak | 11.42 | V | 44.90 | 67.96 | -23.06 |
| 98.30 | -77.94 | Avg | 11.65 | V | 40.71 | 47.96 | -7.25 |
| 98.30 | -74.37 | Peak | 11.65 | V | 44.28 | 67.96 | -23.68 |
| 105.30 | -78.41 | Avg | 12.13 | V | 40.72 | 47.96 | -7.24 |
| 105.30 | -75.15 | Peak | 12.13 | V | 43.98 | 67.96 | -23.98 |
| 91.70 | -84.40 | Avg | 11.42 | H | 34.02 | 47.96 | -13.94 |
| 91.70 | -80.86 | Peak | 11.42 | H | 37.56 | 67.96 | -30.40 |
| 98.30 | -86.76 | Avg | 11.65 | H | 31.89 | 47.96 | -16.07 |
| 98.30 | -82.74 | Peak | 11.65 | H | 35.91 | 67.96 | -32.05 |
| 105.30 | -85.17 | Avg | 12.13 | H | 33.96 | 47.96 | -14.00 |
| 105.30 | -82.61 | Peak | 12.13 | H | 36.52 | 67.96 | -31.44 |

Table 7-12. In-Band Radiated Measurements (Chevy Impala) – Test Configuration #9 (Rear Side – 180 degrees)

| Frequency [MHz] | Level [dBm] | Detector | AFCL [dB] | Pol [H/V] | Field Strength [dB μ V/m] | Limit [dB μ V/m] | Margin [dB] |
|-----------------|-------------|----------|-----------|-----------|-------------------------------|----------------------|-------------|
| 91.70 | -80.77 | Avg | 11.42 | V | 37.65 | 47.96 | -10.31 |
| 91.70 | -75.93 | Peak | 11.42 | V | 42.49 | 67.96 | -25.47 |
| 98.30 | -79.18 | Avg | 11.65 | V | 39.47 | 47.96 | -8.49 |
| 98.30 | -77.17 | Peak | 11.65 | V | 41.48 | 67.96 | -26.48 |
| 105.30 | -89.23 | Avg | 12.13 | V | 29.90 | 47.96 | -18.06 |
| 105.30 | -86.44 | Peak | 12.13 | V | 32.69 | 67.96 | -35.27 |
| 91.70 | -85.44 | Avg | 11.42 | H | 32.98 | 47.96 | -14.98 |
| 91.70 | -80.21 | Peak | 11.42 | H | 38.21 | 67.96 | -29.75 |
| 98.30 | -86.99 | Avg | 11.65 | H | 31.66 | 47.96 | -16.30 |
| 98.30 | -81.07 | Peak | 11.65 | H | 37.58 | 67.96 | -30.38 |
| 105.30 | -92.14 | Avg | 12.13 | H | 26.99 | 47.96 | -20.97 |
| 105.30 | -87.77 | Peak | 12.13 | H | 31.36 | 67.96 | -36.60 |

Table 7-13. In-Band Radiated Measurements (Chevy Impala) – Test Configuration #9 (Driver Side – 90 degrees)

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: RS2XMXRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
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| Frequency [MHz] | Level [dBm] | Detector | AFCL [dB] | Pol [H/V] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|-------------|----------|-----------|-----------|-------------------------|----------------|-------------|
| 91.70 | -79.96 | Avg | 11.42 | V | 38.46 | 47.96 | -9.50 |
| 91.70 | -74.26 | Peak | 11.42 | V | 44.16 | 67.96 | -23.80 |
| 98.30 | -85.70 | Avg | 11.65 | V | 32.95 | 47.96 | -15.01 |
| 98.30 | -81.89 | Peak | 11.65 | V | 36.76 | 67.96 | -31.20 |
| 105.30 | -89.92 | Avg | 12.13 | V | 29.21 | 47.96 | -18.75 |
| 105.30 | -84.08 | Peak | 12.13 | V | 35.05 | 67.96 | -32.91 |
| 91.70 | -80.56 | Avg | 11.42 | H | 37.86 | 47.96 | -10.10 |
| 91.70 | -77.26 | Peak | 11.42 | H | 41.16 | 67.96 | -26.80 |
| 98.30 | -83.46 | Avg | 11.65 | H | 35.19 | 47.96 | -12.77 |
| 98.30 | -80.64 | Peak | 11.65 | H | 38.01 | 67.96 | -29.95 |
| 105.30 | -94.37 | Avg | 12.13 | H | 24.76 | 47.96 | -23.20 |
| 105.30 | -88.70 | Peak | 12.13 | H | 30.43 | 67.96 | -37.53 |

Table 7-14. In-Band Radiated Measurements (Chevy Impala) – Test Configuration #9 (Passenger Side – 270 degrees)

7.6.3 Radiated Measurement Data for Nissan Altima
§15.239 (b) / §15.209

| Frequency [MHz] | Level [dBm] | Detector | AFCL [dB] | Pol [H/V] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|-------------|----------|-----------|-----------|-------------------------|----------------|-------------|
| 91.70 | -81.12 | Avg | 11.42 | V | 37.30 | 47.96 | -10.66 |
| 91.70 | -77.63 | Peak | 11.42 | V | 40.79 | 67.96 | -27.17 |
| 98.30 | -79.76 | Avg | 11.65 | V | 38.89 | 47.96 | -9.07 |
| 98.30 | -77.64 | Peak | 11.65 | V | 41.01 | 67.96 | -26.95 |
| 105.30 | -88.18 | Avg | 12.13 | V | 30.95 | 47.96 | -17.01 |
| 105.30 | -82.21 | Peak | 12.13 | V | 36.92 | 67.96 | -31.04 |
| 91.70 | -87.82 | Avg | 11.42 | H | 30.60 | 47.96 | -17.36 |
| 91.70 | -83.34 | Peak | 11.42 | H | 35.08 | 67.96 | -32.88 |
| 98.30 | -89.27 | Avg | 11.65 | H | 29.38 | 47.96 | -18.58 |
| 98.30 | -85.38 | Peak | 11.65 | H | 33.27 | 67.96 | -34.69 |
| 105.30 | -98.85 | Avg | 12.13 | H | 20.28 | 47.96 | -27.68 |
| 105.30 | -90.64 | Peak | 12.13 | H | 28.49 | 67.96 | -39.47 |

Table 7-15. In-Band Radiated Measurements (Nissan Altima) – Test Configuration #10 (Front Side – 0 degrees)



| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: RS2XMXRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0707180737.RS2 | Test Dates: July 19 - 23, 2007 | EUT Type: XpressRC XM Satellite Radio Receiver and FM Transmitter | | Page 28 of 40 |

| Frequency [MHz] | Level [dBm] | Detector | AFCL [dB] | Pol [H/V] | Field Strength [dB μ V/m] | Limit [dB μ V/m] | Margin [dB] |
|-----------------|-------------|----------|-----------|-----------|-------------------------------|----------------------|-------------|
| 91.70 | -75.56 | Avg | 11.42 | V | 42.86 | 47.96 | -5.10 |
| 91.70 | -73.54 | Peak | 11.42 | V | 44.88 | 67.96 | -23.08 |
| 98.30 | -81.70 | Avg | 11.65 | V | 36.95 | 47.96 | -11.01 |
| 98.30 | -79.19 | Peak | 11.65 | V | 39.46 | 67.96 | -28.50 |
| 105.30 | -84.47 | Avg | 12.13 | V | 34.66 | 47.96 | -13.30 |
| 105.30 | -82.02 | Peak | 12.13 | V | 37.11 | 67.96 | -30.85 |
| 91.70 | -86.92 | Avg | 11.42 | H | 31.50 | 47.96 | -16.46 |
| 91.70 | -82.40 | Peak | 11.42 | H | 36.02 | 67.96 | -31.94 |
| 98.30 | -86.96 | Avg | 11.65 | H | 31.69 | 47.96 | -16.27 |
| 98.30 | -87.50 | Peak | 11.65 | H | 31.15 | 67.96 | -36.81 |
| 105.30 | -89.90 | Avg | 12.13 | H | 29.23 | 47.96 | -18.73 |
| 105.30 | -87.55 | Peak | 12.13 | H | 31.58 | 67.96 | -36.38 |

Table 7-16. In-Band Radiated Measurements (Nissan Altima) – Test Configuration #10 (Rear Side – 180 degrees)

| Frequency [MHz] | Level [dBm] | Detector | AFCL [dB] | Pol [H/V] | Field Strength [dB μ V/m] | Limit [dB μ V/m] | Margin [dB] |
|-----------------|-------------|----------|-----------|-----------|-------------------------------|----------------------|-------------|
| 91.70 | -79.16 | Avg | 11.42 | V | 39.26 | 47.96 | -8.70 |
| 91.70 | -76.17 | Peak | 11.42 | V | 42.25 | 67.96 | -25.71 |
| 98.30 | -90.64 | Avg | 11.65 | V | 28.01 | 47.96 | -19.95 |
| 98.30 | -83.51 | Peak | 11.65 | V | 35.14 | 67.96 | -32.82 |
| 105.30 | -87.45 | Avg | 12.13 | V | 31.68 | 47.96 | -16.28 |
| 105.30 | -80.55 | Peak | 12.13 | V | 38.58 | 67.96 | -29.38 |
| 91.70 | -82.30 | Avg | 11.42 | H | 36.12 | 47.96 | -11.84 |
| 91.70 | -79.24 | Peak | 11.42 | H | 39.18 | 67.96 | -28.78 |
| 98.30 | -80.23 | Avg | 11.65 | H | 38.42 | 47.96 | -9.54 |
| 98.30 | -78.51 | Peak | 11.65 | H | 40.14 | 67.96 | -27.82 |
| 105.30 | -86.89 | Avg | 12.13 | H | 32.24 | 47.96 | -15.72 |
| 105.30 | -82.60 | Peak | 12.13 | H | 36.53 | 67.96 | -31.43 |

Table 7-17. In-Band Radiated Measurements (Nissan Altima) – Test Configuration #10 (Driver Side – 90 degrees)



| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: RS2XMXRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0707180737.RS2 | Test Dates: July 19 - 23, 2007 | EUT Type: XpressRC XM Satellite Radio Receiver and FM Transmitter | | Page 29 of 40 |

| Frequency [MHz] | Level [dBm] | Detector | AFCL [dB] | Pol [H/V] | Field Strength [dB μ V/m] | Limit [dB μ V/m] | Margin [dB] |
|-----------------|-------------|----------|-----------|-----------|-------------------------------|----------------------|-------------|
| 91.70 | -83.79 | Avg | 11.42 | V | 34.63 | 47.96 | -13.33 |
| 91.70 | -79.21 | Peak | 11.42 | V | 39.21 | 67.96 | -28.75 |
| 98.30 | -93.21 | Avg | 11.65 | V | 25.44 | 47.96 | -22.52 |
| 98.30 | -82.13 | Peak | 11.65 | V | 36.52 | 67.96 | -31.44 |
| 105.30 | -86.57 | Avg | 12.13 | V | 32.56 | 47.96 | -15.40 |
| 105.30 | -82.58 | Peak | 12.13 | V | 36.55 | 67.96 | -31.41 |
| 91.70 | -81.03 | Avg | 11.42 | H | 37.39 | 47.96 | -10.57 |
| 91.70 | -78.24 | Peak | 11.42 | H | 40.18 | 67.96 | -27.78 |
| 98.30 | -85.16 | Avg | 11.65 | H | 33.49 | 47.96 | -14.47 |
| 98.30 | -80.89 | Peak | 11.65 | H | 37.76 | 67.96 | -30.20 |
| 105.30 | -86.16 | Avg | 12.13 | H | 32.97 | 47.96 | -14.99 |
| 105.30 | -83.02 | Peak | 12.13 | H | 36.11 | 67.96 | -31.85 |

Table 7-18. In-Band Radiated Measurements (Nissan Altima) – Test Configuration #10 (Passenger Side – 270 degrees)

NOTES:

1. All measurements were recorded using a spectrum analyzer employing a peak detector with RBW equal to 120kHz and VBW greater than or equal to RBW and with an average detector with RBW equal to 120kHz and VBW equal to 100Hz.
2. Both horizontal and vertical polarities were measured with the worst case levels reported.
3. The test vehicles used were: (1) Ford Expedition, (2) Chevy Impala, and (3) Nissan Altima.
4. The EUT was powered through each vehicle's cigarette lighter jack.
5. Emissions were measured on all four sides of the vehicle at a distance of 3 meters from the periphery of the vehicle. FM coupler position was varied along the path of the in-glass FM antenna to maximize emissions.
6. Within the permitted band of 88 – 108MHz the radiated limit is 250 μ V/m (47.96 dB μ /m) at 3 meters.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: RS2XMXRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0707180737.RS2 | Test Dates: July 19 - 23, 2007 | EUT Type: XpressRC XM Satellite Radio Receiver and FM Transmitter | | Page 30 of 40 |



7.7 Out-of-Band Radiated Spurious Emission Measurements
§15.239 (c) / §15.209



Mode: Live XM Signal
 Measurement Distance: 3 Meters
 Operating Frequency: 88.5MHz

| Frequency [MHz] | Average Level [dBm] | AFCL [dB] | PoI [H/V] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|---------------------|-----------|-----------|-------------------------|----------------|-------------|
| 177.00 | -90.04 | 15.18 | H | 32.14 | 43.52 | -11.38 |
| 265.50 | -88.85 | 12.00 | H | 30.15 | 46.02 | -15.87 |
| 354.00 | -93.29 | 14.86 | H | 28.57 | 46.02 | -17.45 |
| 442.50 | -98.49 | 16.90 | H | 25.41 | 46.02 | -20.61 |
| 531.00 | -97.93 | 18.64 | H | 27.71 | 46.02 | -18.31 |

Table 7-19. Radiated Measurements (Live XM Signal) – Test Configuration #6

NOTES:

1. All measurements were recorded using a spectrum analyzer employing an average detector with RBW equal to 120kHz and VBW equal to 100Hz. Peak levels were within 20dB of recorded average levels.
2. Both horizontal and vertical polarities were measured with the worst case levels reported.
3. The EUT was supplied with a fully-recharged 12V battery.
4. The EUT was connected to a vehicle adapter which is connected to a SureConnect FM coupler splitter box. The unit is set to receive a live XM signal while coupled to the FM aerial antenna.
5. The spectrum was measured from 9kHz to the 10th harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. The radiated limits at 3-meters are as specified above in Table 7-3.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: RS2XMXRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0707180737.RS2 | Test Dates: July 19 - 23, 2007 | EUT Type: XpressRC XM Satellite Radio Receiver and FM Transmitter | | Page 31 of 40 |

Out-of-Band Radiated Spurious Emission Measurements (Cont'd)

§15.239 (c) / §15.209

Mode: Live XM Signal

Measurement Distance: 3 Meters



Operating Frequency: 96.9REF!MHz

| Frequency [MHz] | Average Level [dBm] | AFCL [dB] | Pol [H/V] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|---------------------|-----------|-----------|-------------------------|----------------|-------------|
| 193.80 | -94.88 | 12.25 | H | 24.37 | 43.52 | -19.15 |
| 290.70 | -83.48 | 12.99 | H | 36.51 | 46.02 | -9.52 |
| 387.60 | -96.25 | 15.77 | H | 26.52 | 46.02 | -19.50 |
| 484.50 | -98.62 | 17.72 | H | 26.10 | 46.02 | -19.92 |
| 581.40 | -99.33 | 19.75 | H | 27.43 | 46.02 | -18.59 |

Table 7-20. Radiated Measurements (Live XM Signal) – Test Configuration #6

NOTES:

1. All measurements were recorded using a spectrum analyzer employing an average detector with RBW equal to 120kHz and VBW equal to 100Hz. Peak levels were within 20dB of recorded average levels.
2. Both horizontal and vertical polarities were measured with the worst case levels reported.
3. The EUT was supplied with a fully-recharged 12V battery.
4. The EUT was connected to a vehicle adapter which is connected to a SureConnect FM coupler splitter box. The unit is set to receive a live XM signal while coupled to the FM aerial antenna.
5. The spectrum was measured from 9kHz to the 10th harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. The radiated limits at 3-meters are as specified above in Table 7-3.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: RS2XMXRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0707180737.RS2 | Test Dates: July 19 - 23, 2007 | EUT Type: XpressRC XM Satellite Radio Receiver and FM Transmitter | | Page 32 of 40 |

Out-of-Band Radiated Spurious Emission Measurements (Cont'd)

§15.239 (c) / §15.209

Mode: Live XM Signal

Measurement Distance: 3 Meters



Operating Frequency: 107.7MHz

| Frequency [MHz] | Average Level [dBm] | AFCL [dB] | Pol [H/V] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|---------------------|-----------|-----------|-------------------------|----------------|-------------|
| 215.40 | -94.39 | 11.34 | H | 23.95 | 43.52 | -19.57 |
| 323.10 | -96.62 | 14.04 | H | 24.42 | 46.02 | -21.60 |
| 430.80 | -97.68 | 16.72 | H | 26.04 | 46.02 | -19.98 |
| 538.50 | -99.35 | 18.88 | H | 26.53 | 46.02 | -19.49 |
| 646.20 | -100.29 | 20.91 | H | 27.62 | 46.02 | -18.40 |

Table 7-21. Radiated Measurements (Live XM Signal) – Test Configuration #6

NOTES:

1. All measurements were recorded using a spectrum analyzer employing an average detector with RBW equal to 120kHz and VBW equal to 100Hz. Peak levels were within 20dB of recorded average levels.
2. Both horizontal and vertical polarities were measured with the worst case levels reported.
3. The EUT was supplied with a fully-recharged 12V battery.
4. The EUT was connected to a vehicle adapter which is connected to a SureConnect FM coupler splitter box. The unit is set to receive a live XM signal while coupled to the FM aerial antenna.
5. The spectrum was measured from 9kHz to the 10th harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. The radiated limits at 3-meters are as specified above in Table 7-3.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: RS2XMXRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
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Out-of-Band Radiated Spurious Emission Measurements §15.239 (c) / §15.209

Mode: Song Saver

Measurement Distance: 3 Meters



Operating Frequency: 88.5MHz

| Frequency [MHz] | Average Level [dBm] | AFCL [dB] | Pol [H/V] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|---------------------|-----------|-----------|-------------------------|----------------|-------------|
| 177.00 | -91.45 | 15.18 | H | 30.73 | 43.52 | -12.79 |
| 265.50 | -92.77 | 12.00 | H | 26.23 | 46.02 | -19.79 |
| 354.00 | -93.53 | 14.86 | H | 28.33 | 46.02 | -17.69 |
| 442.50 | -97.06 | 16.90 | H | 26.84 | 46.02 | -19.18 |
| 531.00 | -99.43 | 18.64 | H | 26.21 | 46.02 | -19.81 |

Table 7-22. Radiated Measurements (Song Saver Mode) – Test Configuration #6

NOTES:

1. All measurements were recorded using a spectrum analyzer employing an average detector with RBW equal to 120kHz and VBW equal to 100Hz. Peak levels were within 20dB of recorded average levels.
2. Both horizontal and vertical polarities were measured with the worst case levels reported.
3. The EUT was supplied with a fully-recharged 12V battery.
4. The EUT was connected to a vehicle adapter which is connected to a SureConnect FM coupler splitter box. The unit is set in song playback mode while coupled to the FM aerial antenna.
5. The spectrum was measured from 9kHz to the 10th harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. The radiated limits at 3-meters are as specified above in Table 7-3.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: RS2XMXRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
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Out-of-Band Radiated Spurious Emission Measurements (Cont'd)

§15.239 (c) / §15.209

Mode: Song Saver

Measurement Distance: 3 Meters



Operating Frequency: 96.9REF!MHz

| Frequency [MHz] | Average Level [dBm] | AFCL [dB] | Pol [H/V] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|---------------------|-----------|-----------|-------------------------|----------------|-------------|
| 193.80 | -94.88 | 12.25 | H | 24.37 | 43.52 | -19.15 |
| 290.70 | -83.48 | 12.99 | H | 36.51 | 46.02 | -9.52 |
| 387.60 | -96.25 | 15.77 | H | 26.52 | 46.02 | -19.50 |
| 484.50 | -98.62 | 17.72 | H | 26.10 | 46.02 | -19.92 |
| 581.40 | -99.33 | 19.75 | H | 27.43 | 46.02 | -18.59 |

Table 7-23. Radiated Measurements (Song Saver Mode) – Test Configuration #6

NOTES:

1. All measurements were recorded using a spectrum analyzer employing an average detector with RBW equal to 120kHz and VBW equal to 100Hz. Peak levels were within 20dB of recorded average levels.
2. Both horizontal and vertical polarities were measured with the worst case levels reported.
3. The EUT was supplied with a fully-recharged 12V battery.
4. The EUT was connected to a vehicle adapter which is connected to a SureConnect FM coupler splitter box. The unit is set in song playback mode while coupled to the FM aerial antenna.
5. The spectrum was measured from 9kHz to the 10th harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. The radiated limits at 3-meters are as specified above in Table 7-3.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: RS2XMXRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
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Out-of-Band Radiated Spurious Emission Measurements (Cont'd)

§15.239 (c) / §15.209

Mode: Song Saver

Measurement Distance: 3 Meters



Operating Frequency: 107.7MHz

| Frequency [MHz] | Average Level [dBm] | AFCL [dB] | Pol [H/V] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|---------------------|-----------|-----------|-------------------------|----------------|-------------|
| 215.40 | -94.39 | 11.34 | H | 23.95 | 43.52 | -19.57 |
| 323.10 | -96.62 | 14.04 | H | 24.42 | 46.02 | -21.60 |
| 430.80 | -97.68 | 16.72 | H | 26.04 | 46.02 | -19.98 |
| 538.50 | -99.35 | 18.88 | H | 26.53 | 46.02 | -19.49 |
| 646.20 | -100.29 | 20.91 | H | 27.62 | 46.02 | -18.40 |

Table 7-24. Radiated Measurements (Song Saver Mode) – Test Configuration #6

NOTES:

1. All measurements were recorded using a spectrum analyzer employing an average detector with RBW equal to 120kHz and VBW equal to 100Hz. Peak levels were within 20dB of recorded average levels.
2. Both horizontal and vertical polarities were measured with the worst case levels reported.
3. The EUT was supplied with a fully-recharged 12V battery.
4. The EUT was connected to a vehicle adapter which is connected to a SureConnect FM coupler splitter box. The unit is set in song playback mode while coupled to the FM aerial antenna.
5. The spectrum was measured from 9kHz to the 10th harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. The radiated limits at 3-meters are as specified above in Table 7-3.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: RS2XMXRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
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7.8 Out-of-Band Radiated Spurious Emission Measurements – Industry Canada RSS-210 (2.7)

Mode: Live XM Signal

Measurement Distance: 3 Meters



Operating Frequency: 88.1MHz

| Frequency [MHz] | Average Level [dBm] | AFCL [dB] | PoI [H/V] | Field Strength [dB μ V/m] | Limit [dB μ V/m] | Margin [dB] |
|-----------------|---------------------|-----------|-----------|-------------------------------|----------------------|-------------|
| 176.20 | -87.53 | 15.18 | H | 34.65 | 43.52 | -8.87 |
| 264.30 | -94.91 | 12.00 | H | 24.09 | 46.02 | -21.93 |
| 352.40 | -82.80 | 14.86 | H | 39.06 | 46.02 | -6.96 |
| 440.50 | -92.45 | 16.90 | H | 31.45 | 46.02 | -14.57 |
| 528.60 | -98.38 | 18.64 | H | 27.26 | 46.02 | -18.76 |

Table 7-25. Radiated Measurements (Industry Canada) – Test Configuration #7

NOTES:

1. All measurements were recorded using a spectrum analyzer employing an average detector with RBW equal to 120kHz and VBW equal to 100Hz. Peak levels were within 20dB of recorded average levels.
2. Both horizontal and vertical polarities were measured with the worst case levels reported.
3. The EUT was supplied with a fully-recharged 12V battery.
4. The EUT was connected to a vehicle adapter which is connected to a SureConnect FM coupler splitter box. The unit is set to receive a live XM signal while coupled to the FM glass antenna.
5. The spectrum was measured from 9kHz to the 10th harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. The radiated limits at 3-meters are as specified above in Table 7-3.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: RS2XMXRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
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Out-of-Band Radiated Spurious Emission Measurements – Industry Canada (Cont'd) RSS-210 (2.7)

Mode: Live XM Signal

Measurement Distance: 3 Meters



Operating Frequency: 97.5REF!MHz

| Frequency [MHz] | Average Level [dBm] | AFCL [dB] | Pol [H/V] | Field Strength [dB μ V/m] | Limit [dB μ V/m] | Margin [dB] |
|-----------------|---------------------|-----------|-----------|-------------------------------|----------------------|-------------|
| 195.00 | -88.14 | 12.25 | H | 31.11 | 43.52 | -12.41 |
| 292.50 | -95.65 | 12.99 | H | 24.34 | 46.02 | -21.69 |
| 390.00 | -97.84 | 15.77 | H | 24.93 | 46.02 | -21.09 |
| 487.50 | -94.73 | 17.72 | H | 29.99 | 46.02 | -16.03 |
| 585.00 | -99.25 | 19.75 | H | 27.51 | 46.02 | -18.51 |

Table 7-26. Radiated Measurements (Industry Canada) – Test Configuration #7

NOTES:

1. All measurements were recorded using a spectrum analyzer employing an average detector with RBW equal to 120kHz and VBW equal to 100Hz. Peak levels were within 20dB of recorded average levels.
2. Both horizontal and vertical polarities were measured with the worst case levels reported.
3. The EUT was supplied with a fully-recharged 12V battery.
4. The EUT was connected to a vehicle adapter which is connected to a SureConnect FM coupler splitter box. The unit is set to receive a live XM signal while coupled to the FM glass antenna.
5. The spectrum was measured from 9kHz to the 10th harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. The radiated limits at 3-meters are as specified above in Table 7-3.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: RS2XMXRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0707180737.RS2 | Test Dates: July 19 - 23, 2007 | EUT Type: XpressRC XM Satellite Radio Receiver and FM Transmitter | | Page 38 of 40 |

Out-of-Band Radiated Spurious Emission Measurements – Industry Canada (Cont'd) RSS-210 (2.7)

Mode: Live XM Signal

Measurement Distance: 3 Meters



Operating Frequency: 107.5MHz

| Frequency [MHz] | Average Level [dBm] | AFCL [dB] | Pol [H/V] | Field Strength [dB μ V/m] | Limit [dB μ V/m] | Margin [dB] |
|-----------------|---------------------|-----------|-----------|-------------------------------|----------------------|-------------|
| 215.00 | -90.80 | 11.34 | H | 27.54 | 43.52 | -15.99 |
| 322.50 | -95.14 | 14.04 | H | 25.90 | 46.02 | -20.12 |
| 430.00 | -96.37 | 16.72 | H | 27.35 | 46.02 | -18.67 |
| 537.50 | -97.51 | 18.88 | H | 28.37 | 46.02 | -17.65 |
| 645.00 | -98.68 | 20.91 | H | 29.23 | 46.02 | -16.79 |

Table 7-27. Radiated Measurements (Industry Canada) – Test Configuration #7



NOTES:

1. All measurements were recorded using a spectrum analyzer employing an average detector with RBW equal to 120kHz and VBW equal to 100Hz. Peak levels were within 20dB of recorded average levels.
2. Both horizontal and vertical polarities were measured with the worst case levels reported.
3. The EUT was supplied with a fully-recharged 12V battery.
4. The EUT was connected to a vehicle adapter which is connected to a SureConnect FM coupler splitter box. The unit is set to receive a live XM signal while coupled to the FM glass antenna.
5. The spectrum was measured from 9kHz to the 10th harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. The radiated limits at 3-meters are as specified above in Table 7-3.

| | | | | |
|------------------------------------|---|--|---|---------------------------------|
| FCC ID: RS2XMXRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0707180737.RS2 | Test Dates: July 19 - 23, 2007 | EUT Type: XpressRC XM Satellite Radio Receiver and FM Transmitter | | Page 39 of 40 |

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Delphi XpressRC XM Satellite Radio Receiver and FM Transmitter FCC ID: RS2XMRC1 / IC Cert. No.: 5697A-SA10316** has been tested to show compliance with the requirements specified in §15.239 of the FCC Rules and Annex A2 of RSS-210.

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|---|---|---|---|--|
| FCC ID: RS2XMRC1 |  | FCC Pt. 15.239 / IC RSS-210 MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0707180737.RS2 | Test Dates: July 19 - 23, 2007 | EUT Type: XpressRC XM Satellite Radio Receiver and FM Transmitter | | Page 40 of 40 |