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Certification Test Report

**FCC ID: SK9AMI7
IC: 864G-AMI7**

**FCC Rule Part: 15.247
IC Radio Standards Specification: RSS-210**

ACS Report Number: 11-0093.W06.22.A

Manufacturer: Itron Electricity Metering, Inc.
Model: AMI7

Test Begin Date: April 4, 2011
Test End Date: April 14, 2011

Report Issue Date: April 26, 2011



FOR THE SCOPE OF ACCREDITATION UNDER LAB Code 200612-0

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Reviewed by:

**Kirby Munroe
Director, Wireless Certifications
ACS, Inc.**

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This report contains 20 pages

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1 GENERAL

1.1 Purpose

The purpose of this report is to demonstrate compliance with Part 15 Subpart C of the FCC's Code of Federal Regulations and Industry Canada's Radio Standards Specification RSS-210 for a single limited modular approval.

1.2 Product description

The AMI7 module is a utility meter module designed to be integrated into a variety of electric meter form factors. The AMI7 contains (1) 900 MHz LAN frequency hopping spread spectrum radio and (1) 2.4 GHz direct sequence spread spectrum Zigbee radio. This report addresses the 2.4GHz Zigbee radio only.

Technical details:

Band of operation: 2405 – 2475MHz

Number of channels: 15

Channel spacing: 5MHz

Modulation format: O-QPSK

Antenna Type / Gain: PCB quarter wave embedded slot antenna, 3.8dBi

Operating Voltage: 24Vdc

Manufacturer Information:

Itron Electricity Metering, Inc.

313 North Highway 11

West Union, SC 29696

Test Sample Serial Number(s): 6240000602

Test Sample Condition: The test samples were provided in good working order with no visible defects.

1.3 Test Methodology and Considerations

This AMI7 is a composite device by definition. The 900 MHz LAN radio and the 2.4 GHz Zigbee radio operate under CFR 47 Part 15.247 and IC RSS-210. This report addresses the 2.4 GHz Zigbee radio only. A separate report, 11-0093.W06.12.A, will be issued to address the 900 MHz LAN radio.

The AMI7 was integrated into a 3S meter form for AC power line conducted emissions and radiated emissions.

Both the 900 MHz LAN radio and the 2.4 GHz Zigbee radio can transmit simultaneously therefore radiated inter-modulation products were evaluated and found to be in compliance.

For the purpose of RF conducted measurements, the AMI7 module was modified with a temporary 50 ohm antenna port.

2 TEST FACILITIES

2.1 Location

The radiated and conducted emissions test sites are located at the following address:

Advanced Compliance Solutions
5015 B.U. Bowman Drive
Buford, GA 30518
Phone: (770) 831-8048
Fax: (770) 831-8598

2.2 Laboratory Accreditations/Recognitions/Certifications

ACS is accredited to ISO/IEC 17025 by the National Institute of Standards and Technology under their National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 200612-0. Unless otherwise specified, all tests methods described within this report are covered under the ISO/IEC 17025 scope of accreditation.

The Semi-Anechoic Chamber Test Site, Open Area Test Site (OATS) and Conducted Emissions Site have been fully described, submitted to, and accepted by the FCC, Industry Canada and the Japanese Voluntary Control Council for Interference by information technology equipment.

FCC Registration Number: 894540

Industry Canada Lab Code: IC 4175A

VCCI Member Number: 1831

- VCCI OATS Registration Number R-1526
- VCCI Conducted Emissions Site Registration Number: C-1608

2.3 Radiated Emissions Test Site Description

2.3.1 Semi-Anechoic Chamber Test Site

The Semi-Anechoic Chamber Test Site consists of a 20' x 30' x 18' shielded enclosure. The chamber is lined with Toyo Ferrite Grid Absorber, model number FFG-1000. The ferrite tile grid is 101 x 101 x 19mm thick and weighs approximately 550 grams. These tiles are mounted on steel panels and installed directly on the inner walls of the chamber.

The turntable is 150cm in diameter and is located 160cm from the back wall of the chamber. The chamber is grounded via 1 - 8' copper ground rod, installed at the center of the back wall, it is bound to the ground plane using 3/4" stainless steel braided cable.

The turntable is all steel, flush mounted table installed in an all steel frame. The table is remotely operated from inside the control room located 25' from the range. The turntable is electrically bonded to the surrounding ground plane via steel fingers installed on the edge of the turn table. The steel fingers make constant contact with the ground plane during operation.

Behind the turntable is a 3' x 6' x 4' deep shielded pit used for support equipment if necessary. The pit is equipped with 1 - 4" PVC chases from the turntable to the pit that allow for cabling to the EUT if necessary. The underside of the turntable can be accessed from the pit so cables can be supplied to the EUT from the pit.

A diagram of the Semi-Anechoic Chamber Test Site is shown in Figure 2.3-1 below:

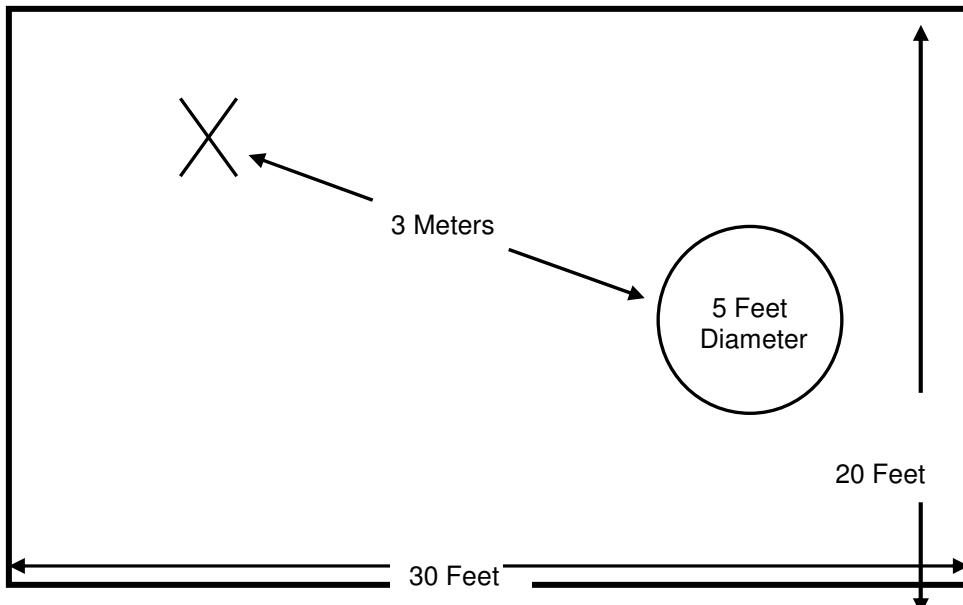


Figure 2.3-1: Semi-Anechoic Chamber Test Site

2.3.2 Open Area Tests Site (OATS)

The open area test site consists of a 40' x 66' concrete pad covered with a perforated electro-plated galvanized sheet metal. The perforations in the sheet metal are 1/8" holes that are staggered every 3/16". The individual sheets are placed to overlap each other by 1/4" and are riveted together to provide a continuous seam. Rivets are spaced every 3" in a 3 x 20 meter perimeter around the antenna mast and EUT area. Rivets in the remaining area are spaced as necessary to properly secure the ground plane and maintain the electrical continuity.

The entire ground plane extends 12' beyond the turntable edge and 16' beyond the antenna mast when set to a 10 meter measurement distance. The ground plane is grounded via 4 - 8' copper ground rods, each installed at a corner of the ground plane and bound to the ground plane using 3/4" stainless steel braided cable.

The turntable is an all aluminum 10' flush mounted table installed in an all aluminum frame. The table is remotely operated from inside the control room located 40' from the range. The turntable is electrically bonded to the surrounding ground plane via steel fingers installed on the edge of the turn table. The steel fingers make constant contact with the ground plane during operation.

Adjacent to the turntable is a 7' x 7' square and 4' deep concrete pit used for support equipment if necessary. The pit is equipped with 5 - 4" PVC chases from the pit to the control room that allow for cabling to the EUT if necessary. The underside of the turntable can be accessed from the pit so cables can be supplied to the EUT from the pit. The pit is covered with 2 sheets of 1/4" diamond style re-enforced steel sheets. The sheets are painted to match the perforated steel ground plane; however the underside edges have been masked off to maintain the electrical continuity of the ground plane. All reflecting objects are located outside of the ellipse defined in ANSI C63.4.

A diagram of the Open Area Test Site is shown in Figure 2.3-2 below:

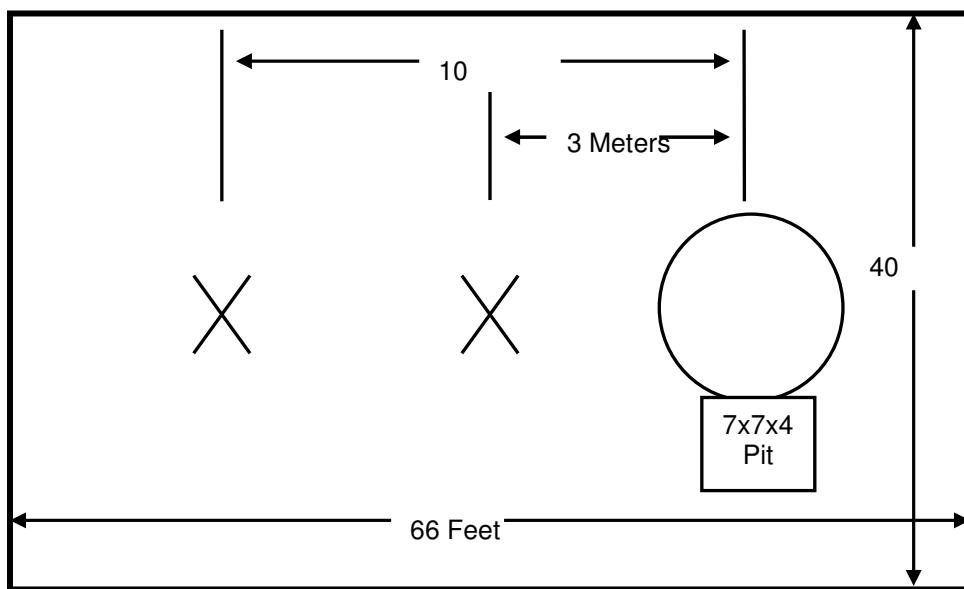


Figure 2.3-2: Open Area Test Site

2.4 Conducted Emissions Test Site Description

The AC mains conducted EMI site is located in the main EMC lab. It consists of an 8' x 8' solid aluminum horizontal group reference plane (GRP) bonded every 3" to an 8' X 8' vertical ground plane.

The site is of sufficient size to test table top and floor standing equipment in accordance with section 6.1.4 of ANSI C63.4.

A diagram of the room is shown below in figure 4.1.3-1:

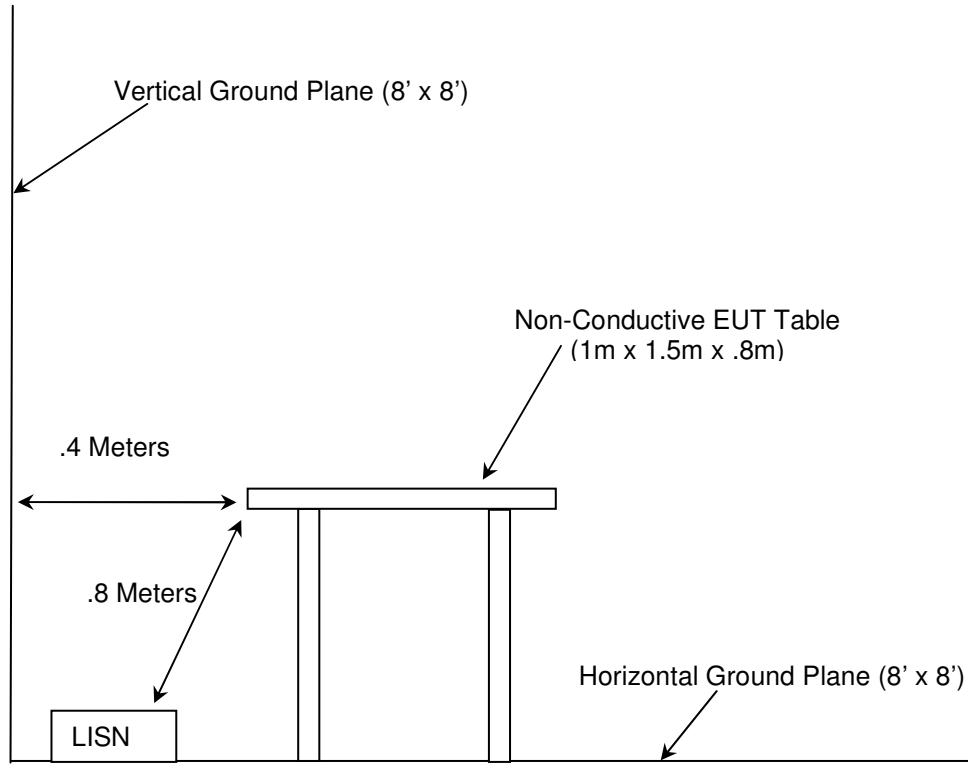


Figure 2.4-1: AC Mains Conducted EMI Site

3 APPLICABLE STANDARD REFERENCES

The following standards were used:

- ❖ ANSI C63.4-2003: Method of Measurements of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the 9KHz to 40GHz
- ❖ US Code of Federal Regulations (CFR): Title 47, Part 2, Subpart J: Equipment Authorization Procedures, 2010
- ❖ US Code of Federal Regulations (CFR): Title 47, Part 15, Subpart C: Radio Frequency Devices, Intentional Radiators, 2010
- ❖ FCC KDB Publication No. 558074 - Guidance on Measurements for Digital Transmission Systems (47 CFR 15.247), March 2005
- ❖ Industry Canada Radio Standards Specification: RSS-210 - Low-power License-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment, Issue 8 December 2010
- ❖ Industry Canada Radio Standards Specification: RSS-GEN – General Requirements and Information for the Certification of Radiocommunication Equipment, Issue 3, December 2010.

4 LIST OF TEST EQUIPMENT

The calibration interval of test equipment is annually or the manufacturer's recommendations. Where the calibration interval deviates from the annual cycle based on the instrument manufacturer's recommendations, it shall be stated below.

Table 4-1: Test Equipment

AssetID	Manufacturer	Model #	Equipment Type	Serial #	Last Calibration Date	Calibration Due Date
1	Rohde & Schwarz	ESMI - Display	Spectrum Analyzers	833771/007	9/23/2010	9/23/2012
2	Rohde & Schwarz	ESMI-Receiver	Spectrum Analyzers	839587/003	9/23/2010	9/23/2012
22	Agilent	8449B	Amplifiers	3008A00526	9/2/2010	8/30/2011
25	Chase	CBL6111	Antennas	1043	9/13/2010	9/13/2012
30	Spectrum Technologies	DRH-0118	Antennas	970102	5/8/2009	5/8/2011
73	Agilent	8447D	Amplifiers	2727A05624	3/21/2011	3/21/2012
152	EMCO	3825/2	LISN	9111-1905	11/2/2010	11/2/2012
		Chamber EMI				
167	ACS	Cable Set	Cable Set	167	1/26/2011	1/26/2012
168	Hewlett Packard	11947A	Attenuators	44829	2/4/2011	2/4/2012
291	Florida RF Cables	SMRE-200W-12.0-SMRE	Cables	None	12/7/2010	12/7/2011
324	ACS	Belden	Cables	8214	7/9/2010	7/9/2011
329	A.H.Systems	SAS-571	Antennas	721	8/4/2009	8/4/2011
338	Hewlett Packard	8449B	Amplifiers	3008A01111	3/24/2011	3/24/2012
340	Aeroflex/Weinschel	AS-20	Attenuators	7136	10/5/2010	10/5/2011
422	Florida RF	SMS-200AW-72.0-SMR	Cables	805	12/29/2010	12/29/2011
430	RF Cables	SMS-290AW-480	Cables	N/A	4/15/2011	4/15/2012
432	Microwave Circuits	H3G020G4	Filters	264066	7/16/2010	7/16/2011

5 SUPPORT EQUIPMENT

Table 5-1: Support Equipment

Item	Equipment Type	Manufacturer	Model Number	Serial Number
1	Form 3S Electric Utility Meter	Itron	CP2SOA	303 904 979
2	Step-up Transformer	Sangamo Weston	T7R	88547576

6 EQUIPMENT UNDER TEST SETUP BLOCK DIAGRAM

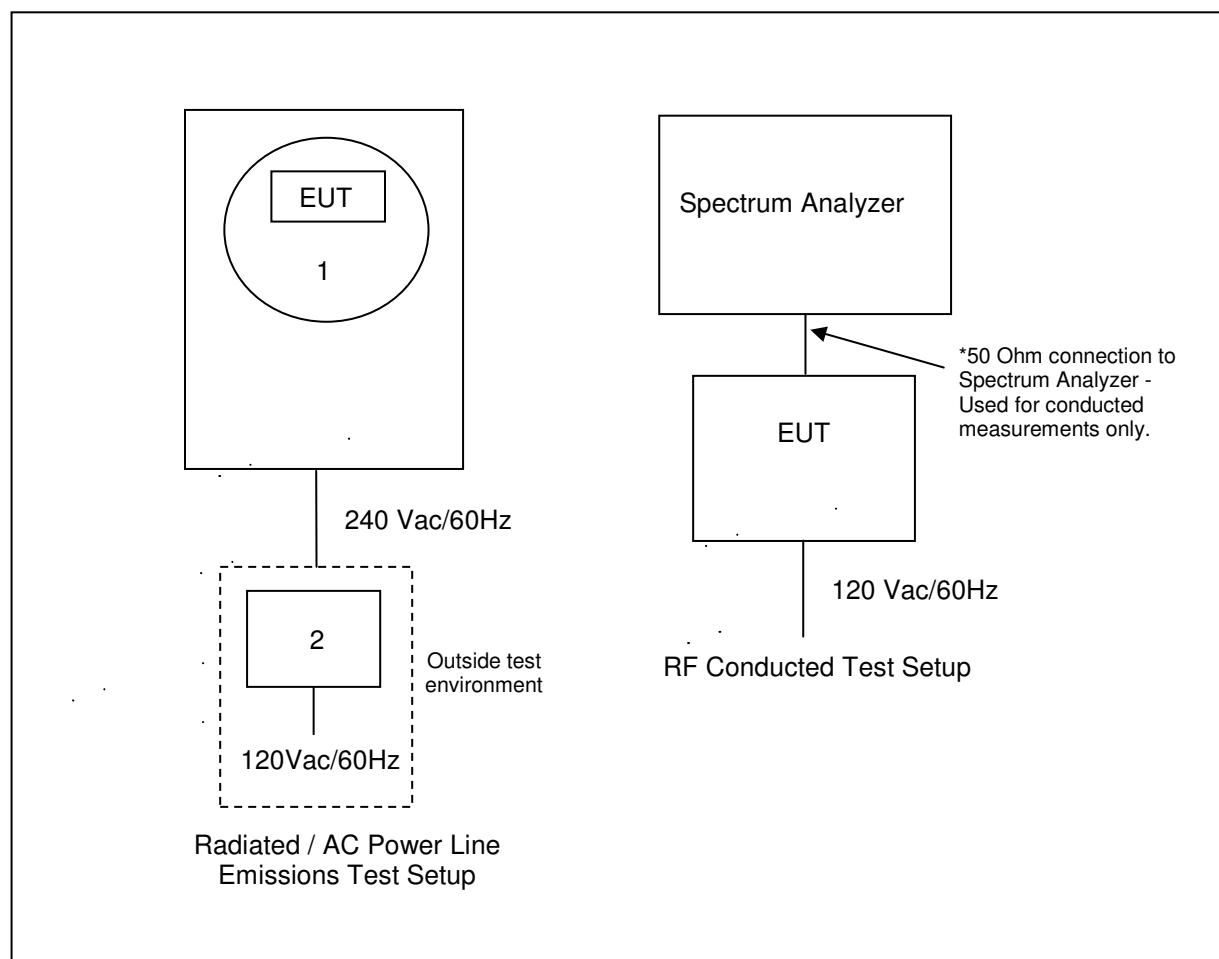


Figure 6-1: EUT Test Setup

7 SUMMARY OF TESTS

Along with the tabular data shown below, plots were taken of all signals deemed important enough to document.

7.1 Antenna Requirement – FCC: Section 15.203

The antenna is a quarter wave embedded slot antenna in the PWB ground plane with a measured gain of 3.8dBi.

7.2 Power Line Conducted Emissions – FCC: Section 15.207 IC: RSS-Gen 7.2.4

7.2.1 Measurement Procedure

ANSI C63.4 sections 6 and 7 were the guiding documents for this evaluation. Conducted emissions were performed from 150kHz to 30MHz with the spectrum analyzer's resolution bandwidth set to 9kHz and the video bandwidth set to 30kHz. The calculation for the conducted emissions is as follows:

Corrected Reading = Analyzer Reading + LISN Loss + Cable Loss

Margin = Applicable Limit - Corrected Reading

7.2.2 Measurement Results

Results of the test are shown below in and Tables 7.2.2-1 to 7.2.2-2.

Table 7.2.2-1: Line 1 Conducted EMI Results

Frequency (MHz)	Uncorrected Reading (dBuV)		Total Correction Factor (dB)	Corrected Level (dBuV)		Limit (dBuV)		Margin (dB)	
	Quasi-Peak	Average		Quasi-Peak	Average	Quasi-Peak	Average	Quasi-Peak	Average
0.167	37.54	24.41	10.09	47.63	34.50	65.11	55.11	17.5	20.6
0.232	31.77	19.31	10.02	41.79	29.33	62.38	52.38	20.6	23.0
0.269	30.58	21.95	10.02	40.60	31.97	61.15	51.15	20.6	19.2
0.501	27.52	20.66	10.00	37.52	30.66	55.98	45.98	18.5	15.3
0.666	25.27	16.59	10.00	35.27	26.59	56.00	46.00	20.7	19.4
1.36	25.6	18.93	10.00	35.60	28.93	56.00	46.00	20.4	17.1

Table 7.2.2-2: Line 2 Conducted EMI Results

Frequency (MHz)	Uncorrected Reading (dBuV)		Total Correction Factor (dB)	Corrected Level (dBuV)		Limit (dBuV)		Margin (dB)	
	Quasi-Peak	Average		Quasi-Peak	Average	Quasi-Peak	Average	Quasi-Peak	Average
0.169	37.96	29.05	10.09	48.05	39.14	65.01	55.01	17.0	15.9
0.397	34.67	27.18	10.22	44.89	37.40	57.92	47.92	13.0	10.5
0.503	36.57	29.97	10.00	46.57	39.97	55.95	45.95	9.4	6.0
0.671	34.48	26.24	10.00	44.48	36.24	56.00	46.00	11.5	9.8
1.38	34.26	27.36	10.00	44.26	37.36	56.00	46.00	11.7	8.6
2.12	31.56	25.58	10.11	41.67	35.69	56.00	46.00	14.3	10.3

7.3 6dB / 99% Bandwidth – FCC: Section 15.247(a)(2) IC: RSS-210 A8.2(a)

7.3.1 Measurement Procedure

The 6dB bandwidth was measured in accordance with the FCC KDB Publication No. 558074 "Guidance on Measurements for Digital Transmission Systems (47 CFR 15.247)". The RBW of the spectrum analyzer was set to 100 kHz and VBW 300 kHz. Span was set large enough to capture the entire emissions and >> RBW.

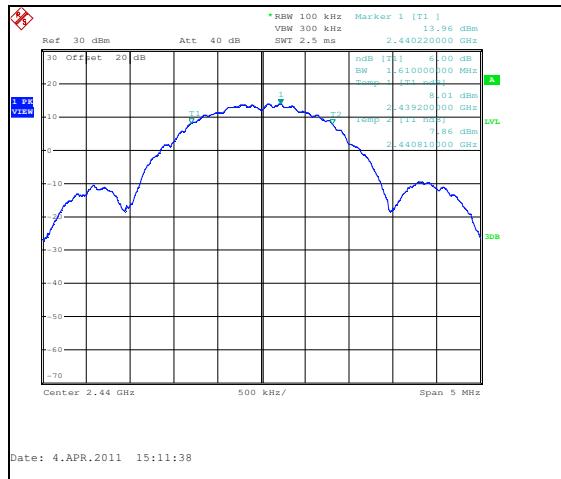
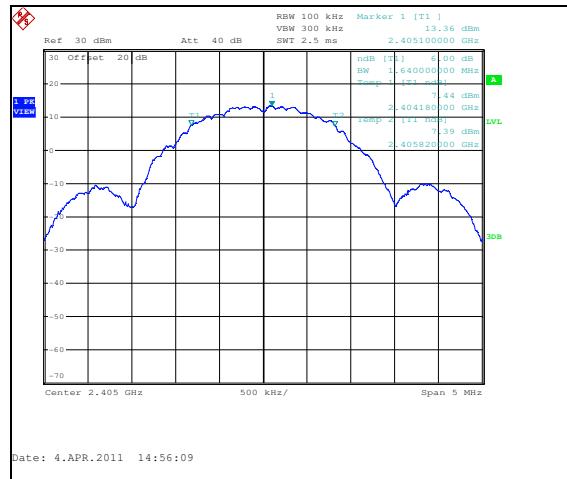
The 99% occupied bandwidth was measured with the spectrum analyzer span set to fully display the emission. The RBW was set as close to 1% of the span without going below 1%. The trace was set to max hold with a sample detector active. The occupied bandwidth measurement function of the analyzer was used for the 99% bandwidth.

7.3.2 Measurement Results

Results are shown below in table 7.3.2-1 and figure 7.3.2-1 to 7.3.2-6:

Table 7.3.2-1: 6dB / 99% Bandwidth

Frequency [MHz]	6dB Bandwidth [MHz]	99% Bandwidth [MHz]
2405	1.64	2.34
2440	1.61	2.32
2475	1.48	2.32



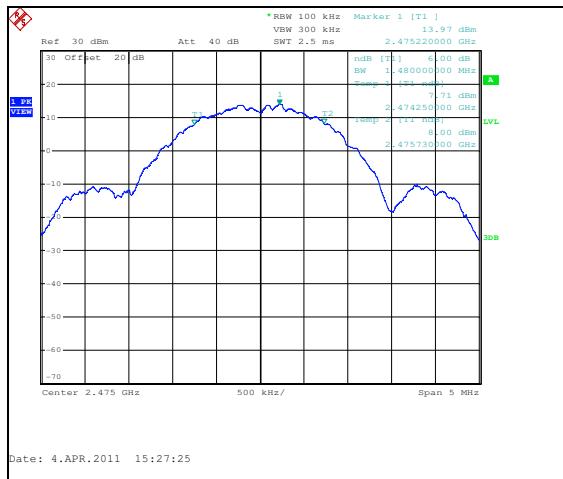


Figure 7.3.2-3: 6dB Bandwidth Plot – 2475MHz

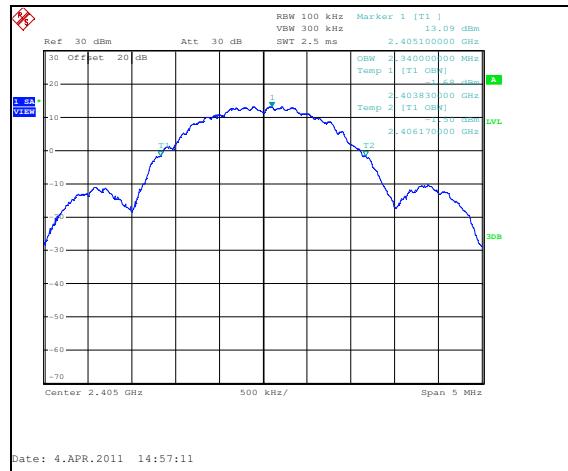


Figure 7.3.2-4: 99% Bandwidth Plot – 2405MHz

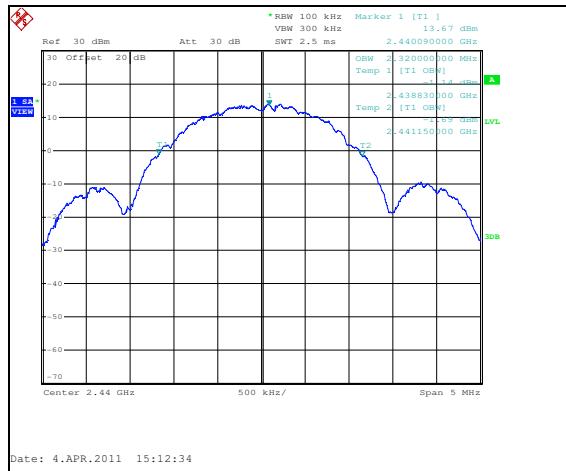


Figure 7.3.2-5: 99% Bandwidth Plot – 2440MHz

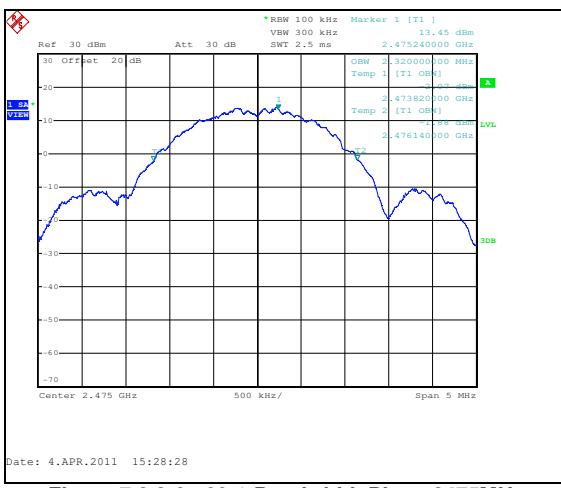


Figure 7.3.2-6: 99% Bandwidth Plot – 2475MHz

7.4 Peak Output Power Requirement - FCC Section 15.247(b)(3) IC: RSS-210 A8.4(4)

7.4.1 Measurement Procedure

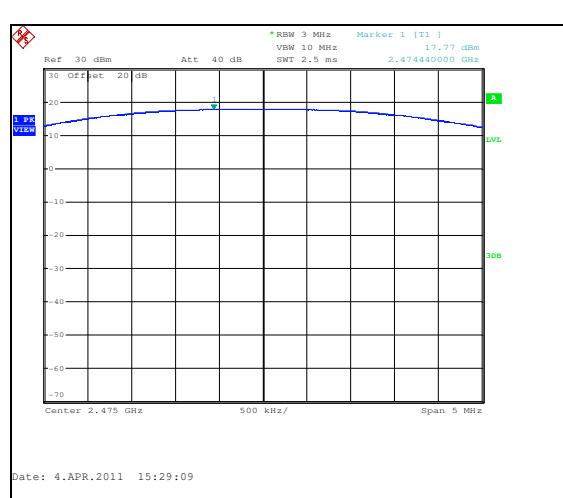
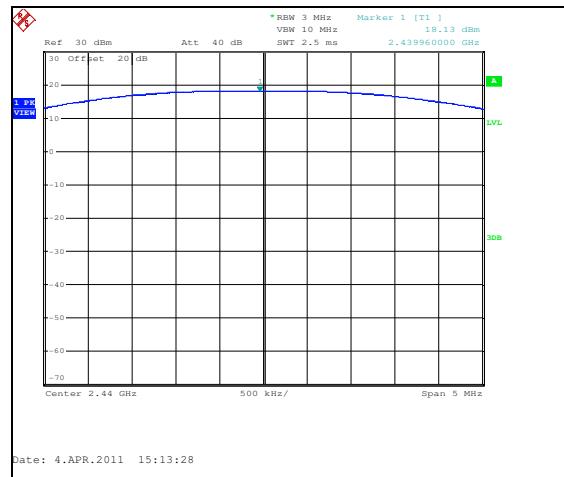
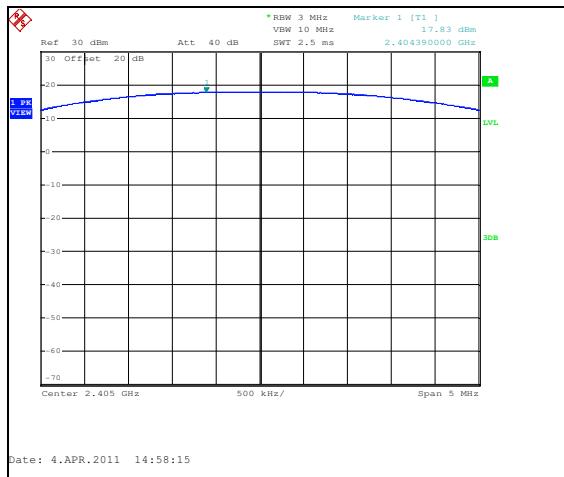
The Peak Output Power was measured in accordance with the FCC KDB Publication No. 558074 "Guidance on Measurements for Digital Transmission Systems (47 CFR 15.247)" Power Option 1. The RF output of the equipment under test was directly connected to the input of the Spectrum Analyzer. Data was collected with the EUT operating at maximum power.

7.4.2 Measurement Results

Results are shown below in Table 7.4.2-1 and Figures 7.4.2-1 to 7.4.2-3.

Table 7.4.2-1: Peak Output Power

Frequency (MHz)	Output Power (dBm)
2405	17.83
2440	18.13
2475	17.77



7.5 Band-Edge Compliance and Spurious Emissions-FCC 15.247d IC:RSS-210 2.6, A8.5

7.5.1 Band-Edge Compliance of RF Conducted Emissions

7.5.1.1 Measurement Procedure

The EUT was investigated at the low and high channels of operation to determine band-edge compliance. All antenna types were evaluated. Because the upper band-edge coincides with a restricted band, band-edge compliance for the upper band-edge was determined using the radiated method. The radiated field strength of the fundamental emission was measured as an absolute field strength.

The lower band-edge compliance was determined using the conducted marker-delta method in which the radio frequency power that is produced by the EUT is at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of desired power.

7.5.1.2 Measurement Results

Band-edge compliance is displayed in Table 7.5.1.2-1 and Figure 7.5.1.2-1.

Table 7.5.1.2-1: Upper Band-edge

Frequency (MHz)	Level (dBuV)		Antenna Polarity (H/V)	Correction Factors (dB)	Corrected Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
	pk	Qpk/Avg			pk	Qpk/Avg	pk	Qpk/Avg	pk	Qpk/Avg
2483.5	63.67	50.47	H	-5.19	58.48	33.91	74.0	54.0	15.50	20.10
2483.5	70.04	56.66	V	-5.19	64.85	40.10	74.0	54.0	9.10	13.90

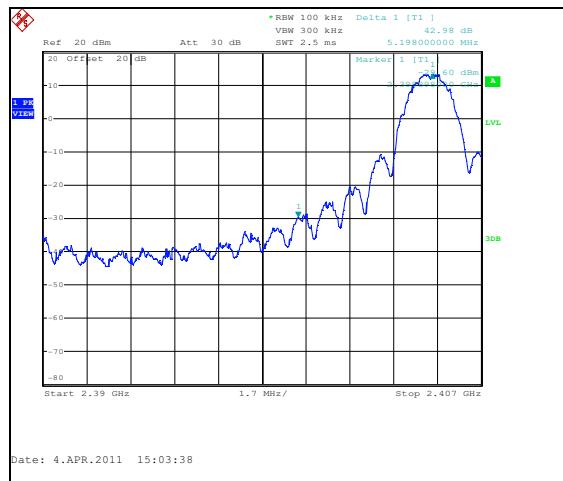


Figure 7.5.1.2-1: Lower Band-edge (Conducted)

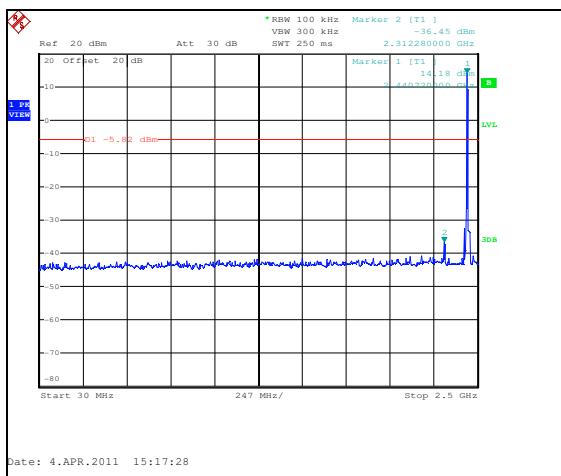
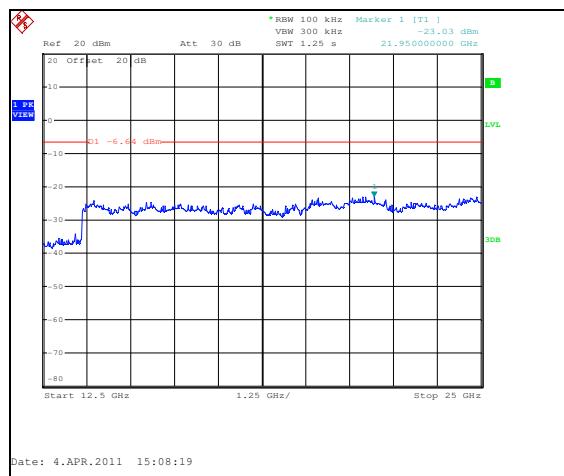
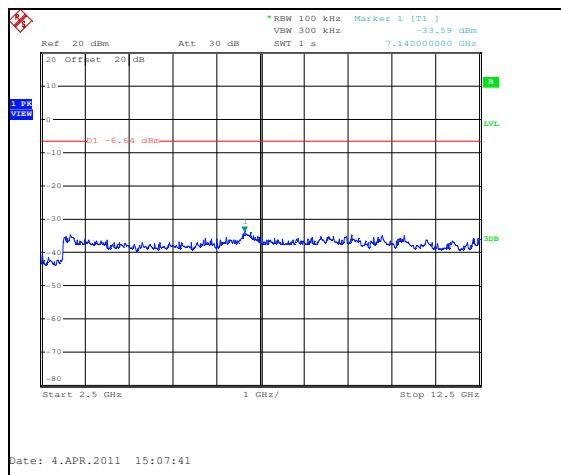
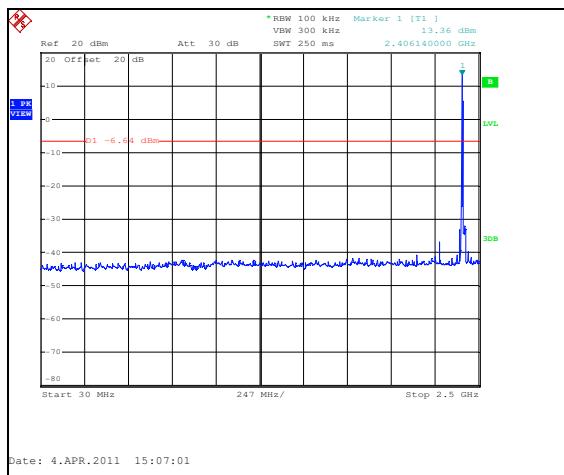
7.5.2 RF Conducted Spurious Emissions

7.5.2.1 Measurement Procedure

The RF Conducted Spurious Emissions were measured in accordance with the FCC KDB Publication No. 558074 "Guidance on Measurements for Digital Transmission Systems (47 CFR 15.247)". The RF output of the equipment under test was directly connected to the input of the Spectrum Analyzer. The EUT was investigated for conducted spurious emissions from 30MHz to 25GHz, 10 times the highest fundamental frequency. For each measurement, the spectrum analyzer's RBW was set to 100 kHz and the VBW was set to 300 kHz. The peak detector and Max Hold function of the analyzer were utilized.

7.5.2.2 Measurement Results

RF Conducted Emissions are displayed in Figures 7.5.2.2-1 through 7.5.2.2-9.



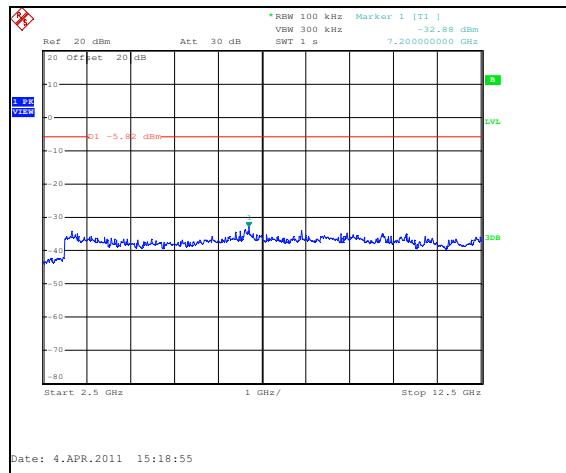


Figure 7.5.2.2-5: 2.5 GHz – 12.5 GHz – 2440MHz

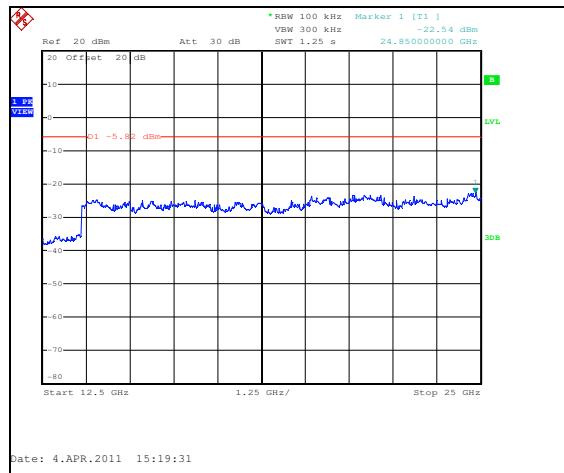


Figure 7.5.2.2-6: 12.5 GHz – 25 GHz – 2440MHz

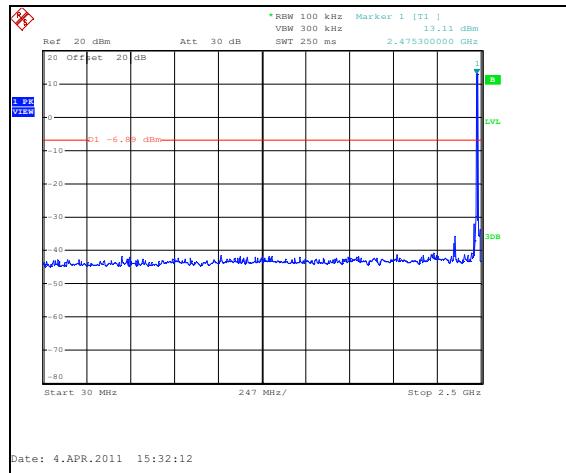


Figure 7.5.2.2-7: 30 MHz – 2.5 GHz – 2475MHz

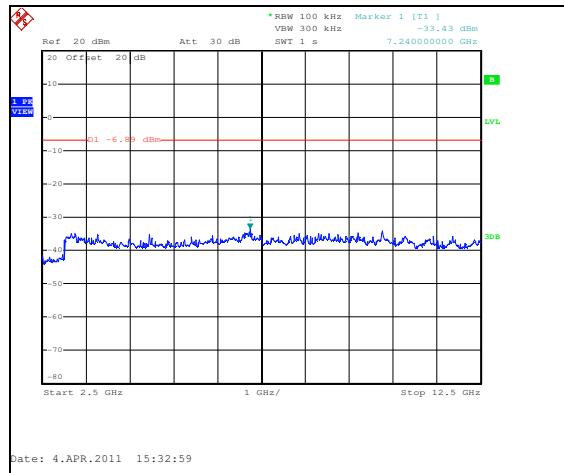


Figure 7.5.2.2-8: 2.5 GHz – 12.5 GHz – 2475MHz

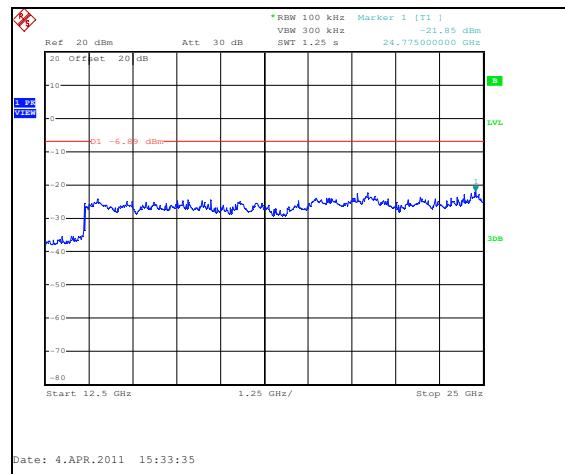


Figure 7.5.2.2-9: 12.5 GHz – 25 GHz – 2475MHz

7.5.3 Radiated Spurious Emissions (Restricted Bands) - FCC Sec. 15.205 IC: RSS-210 2.6**7.5.3.1 Measurement Procedure**

Radiated emissions tests were made over the frequency range of 30MHz to 25 GHz, 10 times the highest fundamental frequency.

The EUT was rotated through 360° and the receive antenna height was varied from 1m to 4m so that the maximum radiated emissions level would be detected. For frequencies below 1000MHz, quasi-peak measurements were made using a resolution bandwidth RBW of 120 kHz and a video bandwidth VBW of 300 kHz. For frequencies above 1000MHz, peak and average measurements were made with RBW and VBW of 1 MHz and 3 MHz respectively. The average emissions were further corrected by applying the duty cycle correction of the EUT for comparison to the average limit.

Each emission found to be in a restricted band as defined by section 15.205 was compared to the radiated emission limits as defined in section 15.209.

7.5.3.2 Duty Cycle Correction

For average radiated measurements, using a 27% duty cycle, the measured level was reduced by a factor 11.37dB. The duty cycle correction factor is determined using the formula: $20\log(27/100) = -11.37\text{dB}$.

A detailed analysis of the duty cycle timing is provided in the Theory of Operation accompanying this report.

7.5.3.3 Measurement Results

Radiated spurious emissions found in the band of 30MHz to 25GHz are reported in the tables below.

Table 7.5.3.3-1: Radiated Spurious Emissions

Frequency (MHz)	Level (dBuV)		Antenna Polarity (H/V)	Correction Factors (dB)	Corrected Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
	pk	Qpk/Avg			pk	Qpk/Avg	pk	Qpk/Avg	pk	Qpk/Avg
Low Channel										
2372.4	64.74	54.51	H	-5.75	58.99	37.39	74.0	54.0	15.0	16.6
2372.4	63.40	53.11	V	-5.75	57.65	35.99	74.0	54.0	16.3	18.0
2277.4	64.03	56.69	H	-6.22	57.81	39.09	74.0	54.0	16.2	14.9
2277.4	62.71	55.40	V	-6.22	56.49	37.80	74.0	54.0	17.5	16.2
2389.4	75.69	68.17	H	-5.66	70.03	51.14	74.0	54.0	4.0	2.9
2389.4	73.81	64.89	V	-5.66	68.15	47.86	74.0	54.0	5.9	6.1
4810	48.02	38.11	H	1.56	49.58	28.30	74.0	54.0	24.4	25.7
4810	49.84	40.03	V	1.56	51.40	30.22	74.0	54.0	22.6	23.8
12025	48.77	37.34	H	14.14	62.91	40.11	83.5	63.5	20.6	23.4
Middle Channel										
2311.9	68.98	62.05	H	5.82	63.16	44.86	74.0	54.0	10.8	9.1
2311.9	67.03	60.45	V	-5.82	61.21	43.26	74.0	54.0	12.8	10.7
2381.3	60.25	45.95	H	-5.46	54.79	29.11	74.0	54.0	19.2	24.9
2381.3	61.24	47.12	V	-5.46	55.78	30.28	74.0	54.0	18.2	23.7
4880	48.08	36.68	H	2.15	50.23	27.46	74.0	54.0	23.8	26.5
4880	50.17	39.53	V	2.15	52.32	30.31	74.0	54.0	21.7	23.7
7320	50.52	40.26	H	7.36	57.88	36.24	74.0	54.0	16.1	17.8
7320	51.21	41.71	V	7.36	58.57	37.69	74.0	54.0	15.4	16.3
High Channel										
2347.4	71.47	64.92	H	-5.87	65.60	47.68	74.0	54.0	8.4	6.3
2347.4	69.76	63.14	V	-5.87	63.89	45.90	74.0	54.0	10.1	8.1
2491.3	66.26	58.01	H	-5.15	61.11	41.49	74.0	54.0	12.9	12.5
2491.3	71.98	63.75	V	-5.15	66.83	47.23	74.0	54.0	7.2	6.8
4950	49.30	38.10	V	1.94	51.24	28.67	74.0	54.0	22.8	25.3
7425	47.07	36.25	H	6.93	54.00	31.80	74.0	54.0	20.0	22.2
7425	49.81	40.03	V	6.93	56.74	35.58	74.0	54.0	17.3	18.4
12375	49.02	37.52	H	16.61	65.63	42.76	83.5	63.5	17.9	20.8
12375	49.73	38.41	V	16.61	66.34	43.65	83.5	63.5	17.2	19.9

7.5.3.4 Sample Calculation:

$$R_C = R_U + CF_T$$

Where:

CF_T = Total Correction Factor (AF+CA+AG)-DC (Average Measurements Only)R_U = Uncorrected ReadingR_C = Corrected Level

AF = Antenna Factor

CA = Cable Attenuation

AG = Amplifier Gain

DC = Duty Cycle Correction Factor

Example Calculation: Peak

Corrected Level: 64.74 - 5.75 = 58.99dBuV/m

Margin: 74dBuV/m - 58.99dBuV/m = 15.0dB

Example Calculation: Average

Corrected Level: 54.51 - 5.75 - 11.37 = 37.39dBuV

Margin: 54dBuV - 37.39dBuV = 16.6dB

7.6 Peak Power Spectral Density- FCC Section 15.247(e) IC: RSS-210 A8.2(b)

7.6.1 Measurement Procedure

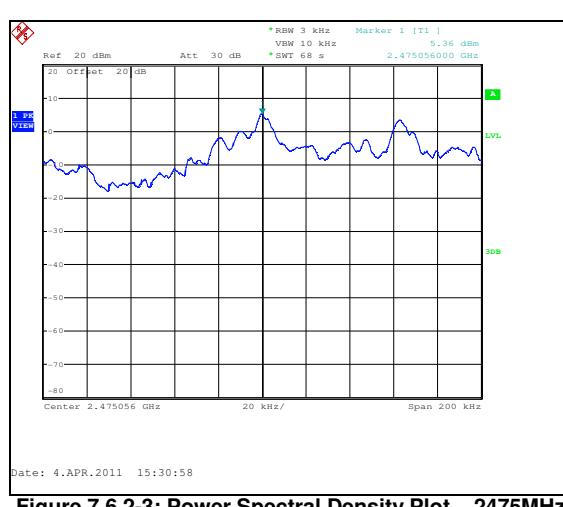
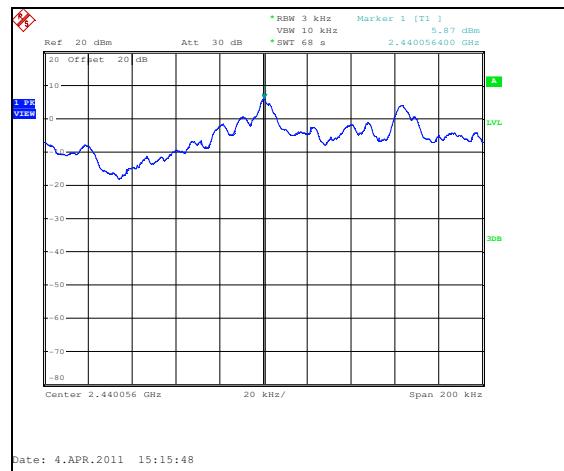
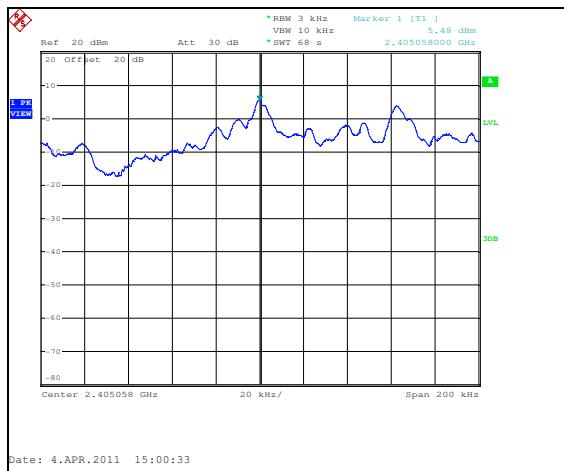
The power spectral density was measured in accordance with the FCC KDB Publication No. 558074 "Guidance on Measurements for Digital Transmission Systems (47 CFR 15.247)". The emission peaks within the pass band were located and zoomed in on. The spectrum analyzer RBW was set to 3 kHz and VBW 10 kHz. Span was adjusted to 200 kHz and the sweep time was calculated to be 68s ~ (Span/3 kHz).

7.6.2 Measurement Results

Results are shown below in table 7.6.2-1 and figures 7.6.2-1 – 7.6.2-3:

Table 7.6.2-1: Peak Power Spectral Density

Frequency (MHz)	PSD Level (dBm)
2405	5.48
2440	5.87
2475	5.36



8 CONCLUSION

In the opinion of ACS, Inc. the AMI7, manufactured by Itron Electricity Metering, Inc. meet the requirements of FCC Part 15 subpart C and Industry Canada's Radio Standards Specification RSS-210.

END REPORT