



## TEST REPORT

Report Number: 100410247ATL-001

June 14, 2011

**Product Name: Sirius Starmate 8 (Sirius onyX)**

**Product Model Number: SST8**

Standard: FCC Part 15, Subpart C, Intentional Radiators (15.239)  
RSS-210, Issue 7 (Annex A2.8)

Tested by:  
Intertek Testing Services NA Inc.  
1950 Evergreen Blvd., Suite 100  
Duluth, GA 30096

Client:  
SIRIUS XM Radio Inc  
1500 Eckington PL NE  
Washington, DC 20002  
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## 1.0 Introduction and Conclusion

The tests indicated in section 2.0 were performed on the product constructed as described in section 3.0. The remaining test sections are the verbatim text from the actual data sheets used during the investigation. These test sections include the test name, the specified test Method, a list of the actual Test Equipment Used, documentation Photos, Results and raw Data. No additions, deviations, or exclusions have been made from the standard(s) unless specifically noted.

Based on the results of our investigation, we have concluded the product tested complies with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item(s) tested. Refer to the Test Summary for the specific details.

### Summary of Test Results – Fundamental Measurements

Test Performed	Configuration	Result
<b>Small Sized Vehicle (Honda Civic)</b>		
Field Strength of Fundamental Emissions - Low Channel	<i>PowerConnect (InSitu)</i>	<b>PASS</b>
Field Strength of Fundamental Emissions - Mid Channel	<i>PowerConnect (InSitu)</i>	<b>PASS</b>
Field Strength of Fundamental Emissions - High Channel	<i>PowerConnect (InSitu)</i>	<b>PASS</b>
<b>Midsized Vehicle (Infiniti G35)</b>		
Field Strength of Fundamental Emissions - Low Channel	<i>PowerConnect (InSitu)</i>	<b>PASS</b>
Field Strength of Fundamental Emissions - Mid Channel	<i>PowerConnect (InSitu)</i>	<b>PASS</b>
Field Strength of Fundamental Emissions - High Channel	<i>PowerConnect (InSitu)</i>	<b>PASS</b>
<b>Large Vehicle (Chevy Tahoe)</b>		
Field Strength of Fundamental Emissions - Low Channel	<i>PowerConnect (InSitu)</i>	<b>PASS</b>
Field Strength of Fundamental Emissions - Mid Channel	<i>PowerConnect (InSitu)</i>	<b>PASS</b>
Field Strength of Fundamental Emissions - High Channel	<i>PowerConnect (InSitu)</i>	<b>PASS</b>

## 2.0 Test Summary

Section	Test Full Name	Test Date	Result
3.0	Description of Equipment Under Test		
4.0	System setup including cable interconnection details, support equipment and simplified block diagram		
5.0	Transmitter Information for equipment operating under Parts 11, 15 and 18 of the rules		
6.0	§ 15.239(b) / (c) Field strength requirements (FCC 15C - 15.239 (b))	06/08/2011	PASS
6.1	§ 15.239(b) / (c) Field strength requirements (FCC 15C - 15.239 (b)) (Small Vehicle)	06/08/2011	PASS
6.2	§ 15.239(b) / (c) Field strength requirements (FCC 15C - 15.239 (b)) (Midsize Vehicle)	06/08/2011	PASS
6.3	§ 15.239(b) / (c) Field strength requirements (FCC 15C - 15.239 (b)) (Large Vehicle)	06/08/2011	PASS
7.0	Test Equipment List		
8.0	Revision History		

### 3.0 Description of Equipment Under Test

Equipment Under Test			
Description	Manufacturer	Model Number	Serial Number
Sirius Starmate 8 (Sirius onyX)	SIRIUS XM Satellite Radio	SST8	1119

EUT receive date:	June 1, 2011
EUT receive condition:	Good

Description of EUT provided by Client:

onyX Hardware Features

- Revolutionary SiriusXM *PowerConnect*™ FM Transmitter works through your vehicle's radio\* with easy Do-It-Yourself Installation. The color-coded Vehicle Dock makes it simple to connect.
- Customize your display by choosing the backlight color theme that matches your mood or vehicle dash lights.
- Personalize your radio by choosing the trim ring that reflects your taste or complements your vehicle interior.
- View artist name, song title, and channel information on the large color display.
- Browse programs, artists, and songs playing on other channels without having to change the channel.
- One-Touch Jump™ to traffic and weather of the 20 most congested cities, or to the previous channel to which you were listening.
- Save and enjoy fast access to up to 10 of your favorite channels.
- Lock and unlock channels with easy-to-use parental controls.
- Complete *PowerConnect* Vehicle Kit included.
- Universal docking capability - add accessories for your home, office, additional vehicles or even outdoors.

Description of EUT exercising:

The EUT was powered with a 12Vdc battery supplied to the dock. The satellite signal was amplified and retransmitted into the emissions chamber to the radio under test. The radio then transmitted the music on the FM channel being investigated. The channels tested were 88.1, 96.9, and 107.9MHz.

Mode of Operation	Frequency Range (MHz)	Number of Channels	Channel Separation (kHz)
FM	88.1-107.9	100	200

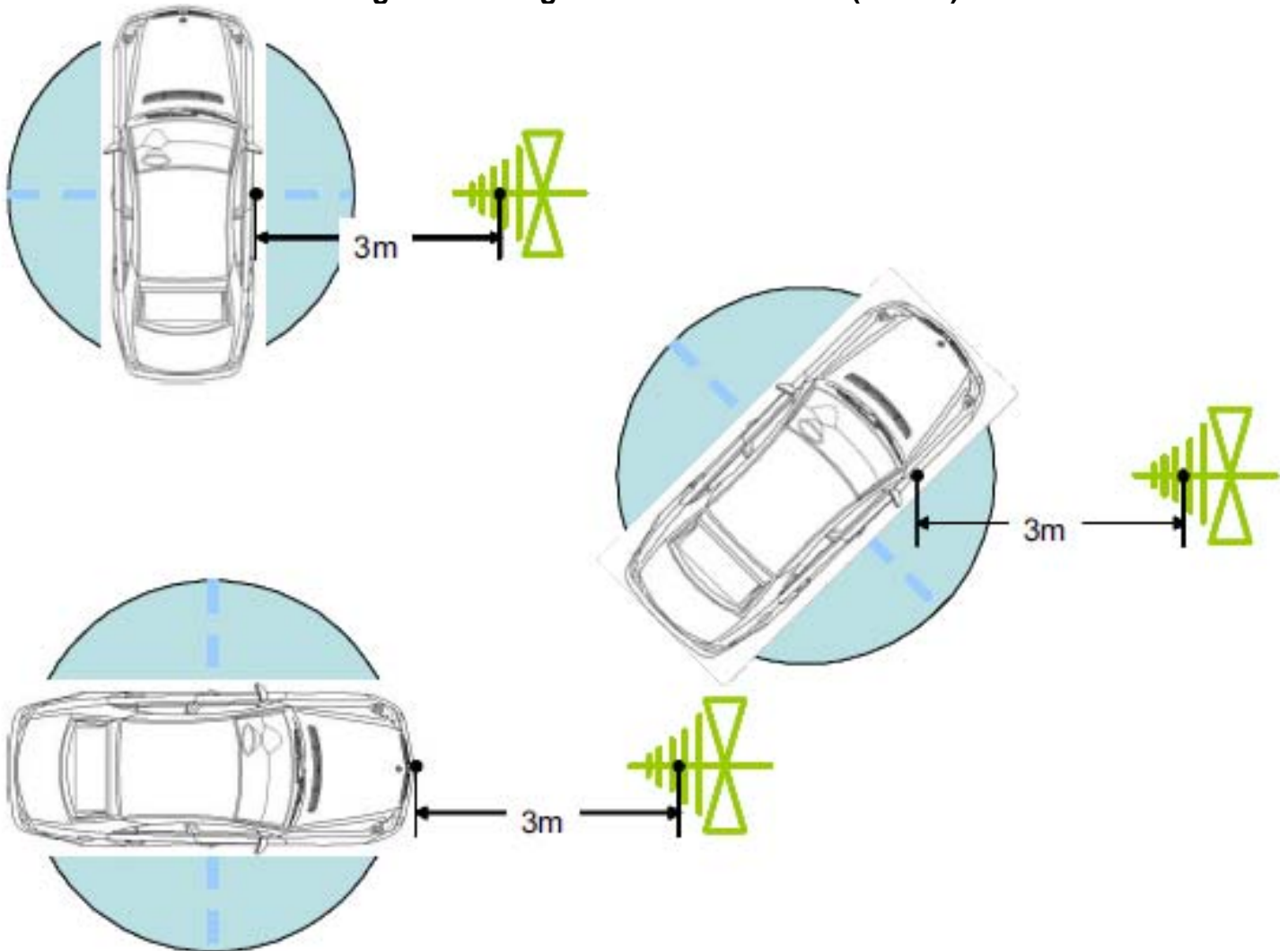
**4.0 System setup including cable interconnection details, support equipment and simplified block diagram. (System Setup)**

**Method:**

Record the details of EUT cabling, document the support equipment, and show the interconnections in a block diagram.

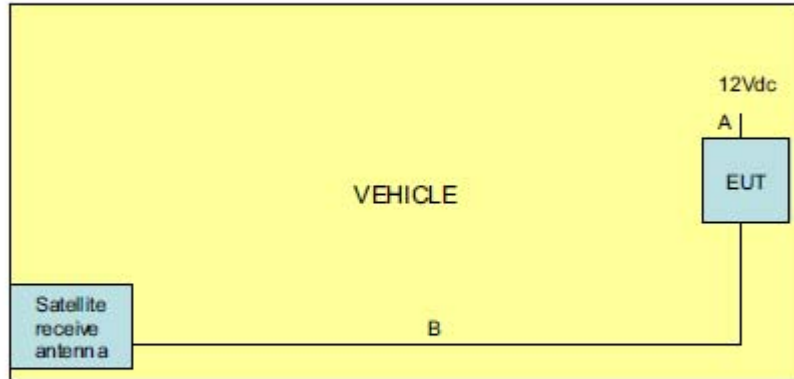
Support Equipment - PowerConnect Configuration			
Description	Manufacturer	Model Number	Serial Number
PowerConnect Dock	Sirius XM	SDPIV1	1117
Sirius Vehicle Antenna	Sirius XM	UCA-DOT	U412B1800D4BJ01
Vehicle Power Adapter	Sirius XM	SXDPIP1	1117
Cigarette Lighter Socket w/	Sirius XM	NA	NA
12V AGM Battery	Werker	WKA12-80C/FR	NA

**Configuration Diagram – PowerConnect (In-Situ)**



**4.0 System setup including cable interconnection details, support equipment and simplified block diagram. (System Setup)**

**Interconnection Diagram – PowerConnect (In-Situ)**



**5.0 Transmitter Information for equipment operating under Parts 11, 15 and 18 of the rules (Transmitter Info - Unlicensed)**

FCC Rule Part			
2.1033(b)(1)	<b>Applicant</b>	Company Name:	Sirius XM Satellite Radio, Inc.
		Address:	3161 S.W. 10th Street, Deerfield Beach, FL 33442
		Phone:	202-680-4288
		Contact Name:	Beejay Jolayemi
	<b>Manufacturer</b>	Company Name:	Same
		Address:	Same
		Phone:	Same
		Contact Name:	Same
2.1033(b)(2)	<b>Equipment</b>	FCC ID:	RS2SST8
		EUT Model Number:	SST8
		EUT Serial Number:	1119
2.1033(b)(3)	User Manual	Not Required for PAV audit	
2.1033(b)(4)	Brief description of circuit functions	Not Required for PAV audit	
2.1033(b)(5)	Block diagram showing frequency of oscillators	Not Required for PAV audit	
2.1033(b)(6)	Test report	Incorporated with this document	
2.1033(b)(7)	Internal and external photographs	Not Required for PAV audit	
2.1033(b)(8)	Peripheral Equipment	Can be used?	N/A
		Comercially available?	N/A
2.1033(b)(9)	Transition rules apply?	No	
2.1033(b)(10)	Scanning receiver?	No	
2.1033(b)(11)	Transmitter in 59-64 GHz band?	No	
2.1033(b)(12)	Software defined radio?	No	

Label Image



**6.0 § 15.239(b) / (c) Field strength requirements (FCC 15C - 15.239 (b)) – PowerConnect (In-Situ)**

**Method:**

**TEST REQUIREMENT**

The field strength of any emissions within the permitted 200 kHz band shall not exceed 250 microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

**TEST PROCEDURE:**

- EUT connected to the vehicle's CLA socket by its PowerConnect plug module, supplying the EUT with 5V for each of the three sized vehicles used (i.e. small, medium and large.)
- EUT connected to a satellite antenna which mounted at the rear of the vehicle's roof
- Vehicle cradle connected to the satellite antenna which is mounted on the roof at the rear of the vehicle.
- Measurement antenna maintains a distance of 3 meters from the surface of the vehicle.
- At each emission peak, the antenna height was be adjusted from 1 to 4 meters to maximize the emissions.
- Testing should be performed with the receive antenna positioned both vertically and horizontally.
- All peak measurements should be performed with the RBW set to 120KHz and the VBW set to 300KHz; then with the VBW set to 100Hz for average measurements.
- EUT should be configured to receive live Sirius XM broadcast channels.
- EUT should be configured for Max audio output levels.
- The process described above should be repeated for each position of the vehicle (i.e. 0°, 45°, 90°, 135°, 180°, 225°, 270° & 315°) at a low, mid and high frequency of the FM band

**TEST SITE**

The test site is a 10 meter semi-anechoic chamber located at 1950 Evergreen Blvd, Suite 100, Duluth, GA 30096. This site is accredited by A2LA (see <http://www.a2la.org/scopepdf/1455-01.pdf>) and listed by the FCC. The test site number for Industry Canada is 2042J-1.

**MEASUREMENT UNCERTAINTY**

Compliance of the product is based on the measured value. However, the measurement uncertainty is included for informational purposes. The values given are the measurement uncertainty values with an expanded uncertainty of k=2.

30 MHz to 1000 MHz at 3 meters: +/- 3.9 dB

30 MHz to 1000 MHz at 10 meters: +/- 3.6 dB

1 GHz to 18 GHz at 3 meters: +/- 4.2 dB

**Results: The sample tested was found to Comply.**



### 6.1 § 15.239(b)/(c) Field strength requirements (FCC 15C - 15.239 (b)) – PowerConnect (In-Situ – Small Vehicle)

Tabular Data – Fundamental (Low Channel)

Date: 6/8/2011
Test Distance (m): 3

Frequency Range (MHz): 88-108
Limit: 15\_239-3m

Input power: 12VDC
Modifications for compliance (y/n): n

A	B	C	D	E	F	G	H	I	J	J
Ant. Pol. (V/H)	Frequency MHz	Reading dB(uV)	Antenna Factor dB(1/m)	Cable Loss dB	Pre-amp Factor dB	Net dB(uV/m)	3m Limit dB(uV/m)	Margin dB	Azimuth	Detectors / Bandwidths Det/RBW/VBW
<b>Low Channel</b>										
V	88.100	41.4	8.9	2.1	28.0	24.4	68.0	-43.6	0	Pk/120k/300k
V	88.100	29.2	8.9	2.1	28.0	12.2	48.0	-35.8	0	Av/120k/1.6Hz
H	88.100	50.5	9.9	2.1	28.0	34.6	68.0	-33.4	0	Pk/120k/300k
H	88.100	46.3	9.9	2.1	28.0	30.4	48.0	-17.6	0	Av/120k/1.6Hz
V	88.100	42.3	8.9	2.1	28.0	25.3	68.0	-42.7	45	Pk/120k/300k
V	88.100	39.7	8.9	2.1	28.0	22.7	48.0	-25.3	45	Av/120k/1.6Hz
H	88.100	46.2	9.9	2.1	28.0	30.3	68.0	-37.7	45	Pk/120k/300k
H	88.100	44.4	9.9	2.1	28.0	28.5	48.0	-19.5	45	Av/120k/1.6Hz
V	88.100	51.9	8.9	2.1	28.0	34.9	68.0	-33.1	90	Pk/120k/300k
V	88.100	44.3	8.9	2.1	28.0	27.3	48.0	-20.7	90	Av/120k/1.6Hz
H	88.100	41.2	9.9	2.1	28.0	25.3	68.0	-42.7	90	Pk/120k/300k
H	88.100	36.1	9.9	2.1	28.0	20.2	48.0	-27.8	90	Av/120k/1.6Hz
V	88.100	54.4	8.9	2.1	28.0	37.4	68.0	-30.6	135	Pk/120k/300k
V	88.100	50.4	8.9	2.1	28.0	33.4	48.0	-14.6	135	Av/120k/1.6Hz
H	88.100	50.3	9.9	2.1	28.0	34.4	68.0	-33.6	135	Pk/120k/300k
H	88.100	41.2	9.9	2.1	28.0	25.3	48.0	-22.7	135	Av/120k/1.6Hz
V	88.100	49.2	8.9	2.1	28.0	32.2	68.0	-35.8	180	Pk/120k/300k
V	88.100	40.9	8.9	2.1	28.0	23.9	48.0	-24.1	180	Av/120k/1.6Hz
H	88.100	51.3	9.9	2.1	28.0	35.4	68.0	-32.6	180	Pk/120k/300k
H	88.100	46.1	9.9	2.1	28.0	30.2	48.0	-17.8	180	Av/120k/1.6Hz
V	88.100	48.2	8.9	2.1	28.0	31.2	68.0	-36.8	225	Pk/120k/300k
V	88.100	47.4	8.9	2.1	28.0	30.4	48.0	-17.6	225	Av/120k/1.6Hz
H	88.100	51.5	9.9	2.1	28.0	35.6	68.0	-32.4	225	Pk/120k/300k
H	88.100	51.0	9.9	2.1	28.0	35.1	48.0	-12.9	225	Av/120k/1.6Hz
V	88.100	46.5	8.9	2.1	28.0	29.5	68.0	-38.5	270	Pk/120k/300k
V	88.100	42.4	8.9	2.1	28.0	25.4	48.0	-22.6	270	Av/120k/1.6Hz
H	88.100	46.8	9.9	2.1	28.0	30.9	68.0	-37.1	270	Pk/120k/300k
H	88.100	35.4	9.9	2.1	28.0	19.5	48.0	-28.5	270	Av/120k/1.6Hz
V	88.100	49.7	8.9	2.1	28.0	32.7	68.0	-35.3	315	Pk/120k/300k
V	88.100	39.9	8.9	2.1	28.0	22.9	48.0	-25.1	315	Av/120k/1.6Hz
H	88.100	44.3	9.9	2.1	28.0	28.4	68.0	-39.6	315	Pk/120k/300k
H	88.100	38.1	9.9	2.1	28.0	22.2	48.0	-25.8	315	Av/120k/1.6Hz
<b>Calculations</b>		G=C+D+E-F		I=G-H						

**6.1 § 15.239(b)/(c) Field strength requirements (FCC 15C - 15.239 (b)) – PowerConnect (In-Situ – Small Vehicle)**

Tabular Data – Fundamental (Mid Channel)

Date: 6/8/2011

Test Distance (m): 3

Frequency Range (MHz): 88-108

Limit: 15\_239-3m

Input power: 12VDC

Modifications for compliance (y/n): n

A	B	C	D	E	F	G	H	I	J	J
Ant. Pol. (V/H)	Frequency MHz	Reading dB(uV)	Antenna Factor dB(1/m)	Cable Loss dB	Pre-amp Factor dB	Net dB(uV/m)	3m Limit dB(uV/m)	Margin dB	Azimuth	Detectors / Bandwidths Det/RBW/VBW
<b>Mid Channel</b>										
V	96.900	45.1	10.5	2.2	27.9	29.9	68.0	-38.1	0	Pk/120k/300k
V	96.900	42.9	10.5	2.2	27.9	27.7	48.0	-20.3	0	Av/120k/1.6Hz
H	96.900	43.9	11.8	2.2	27.9	30.0	68.0	-38.0	0	Pk/120k/300k
H	96.900	39.6	11.8	2.2	27.9	25.7	48.0	-22.3	0	Av/120k/1.6Hz
V	96.900	42.1	10.5	2.2	27.9	26.9	68.0	-41.1	45	Pk/120k/300k
V	96.900	37.5	10.5	2.2	27.9	22.3	48.0	-25.7	45	Av/120k/1.6Hz
H	96.900	47.4	11.8	2.2	27.9	33.5	68.0	-34.5	45	Pk/120k/300k
H	96.900	42.0	11.8	2.2	27.9	28.1	48.0	-19.9	45	Av/120k/1.6Hz
V	96.900	49.6	10.5	2.2	27.9	34.4	68.0	-33.6	90	Pk/120k/300k
V	96.900	40.4	10.5	2.2	27.9	25.2	48.0	-22.8	90	Av/120k/1.6Hz
H	96.900	38.0	11.8	2.2	27.9	24.1	68.0	-43.9	90	Pk/120k/300k
H	96.900	28.7	11.8	2.2	27.9	14.8	48.0	-33.2	90	Av/120k/1.6Hz
V	96.900	57.2	10.5	2.2	27.9	42.0	68.0	-26.0	135	Pk/120k/300k
V	96.900	51.7	10.5	2.2	27.9	36.5	48.0	-11.5	135	Av/120k/1.6Hz
H	96.900	51.6	11.8	2.2	27.9	37.7	68.0	-30.3	135	Pk/120k/300k
H	96.900	44.4	11.8	2.2	27.9	30.5	48.0	-17.5	135	Av/120k/1.6Hz
V	96.900	56.6	10.5	2.2	27.9	41.4	68.0	-26.6	180	Pk/120k/300k
V	96.900	49.9	10.5	2.2	27.9	34.7	48.0	-13.3	180	Av/120k/1.6Hz
H	96.900	46.2	11.8	2.2	27.9	32.3	68.0	-35.7	180	Pk/120k/300k
H	96.900	40.1	11.8	2.2	27.9	26.2	48.0	-21.8	180	Av/120k/1.6Hz
V	96.900	46.9	10.5	2.2	27.9	31.7	68.0	-36.3	225	Pk/120k/300k
V	96.900	46.0	10.5	2.2	27.9	30.8	48.0	-17.2	225	Av/120k/1.6Hz
H	96.900	48.9	11.8	2.2	27.9	35.0	68.0	-33.0	225	Pk/120k/300k
H	96.900	47.9	11.8	2.2	27.9	34.0	48.0	-14.0	225	Av/120k/1.6Hz
V	96.900	44.8	10.5	2.2	27.9	29.6	68.0	-38.4	270	Pk/120k/300k
V	96.900	37.9	10.5	2.2	27.9	22.7	48.0	-25.3	270	Av/120k/1.6Hz
H	96.900	48.0	11.8	2.2	27.9	34.1	68.0	-33.9	270	Pk/120k/300k
H	96.900	43.7	11.8	2.2	27.9	29.8	48.0	-18.2	270	Av/120k/1.6Hz
V	96.900	53.1	10.5	2.2	27.9	37.9	68.0	-30.1	315	Pk/120k/300k
V	96.900	48.4	10.5	2.2	27.9	33.2	48.0	-14.8	315	Av/120k/1.6Hz
H	96.900	48.9	11.8	2.2	27.9	35.0	68.0	-33.0	315	Pk/120k/300k
H	96.900	44.1	11.8	2.2	27.9	30.2	48.0	-17.8	315	Av/120k/1.6Hz
<b>Calculations</b>		G=C+D+E-F			I=G-H					

### 6.1 § 15.239(b)/(c) Field strength requirements (FCC 15C - 15.239 (b)) – PowerConnect (In-Situ – Small Vehicle)

Tabular Data – Fundamental (High Channel)

Date: 6/8/2011

Test Distance (m): 3

Frequency Range (MHz): 88-108

Limit: 15\_239-3m

Input power: 12VDC

Modifications for compliance (y/n): n

A	B	C	D	E	F	G	H	I	J	J
Ant. Pol. (V/H)	Frequency MHz	Reading dB(uV)	Antenna Factor dB(1/m)	Cable Loss dB	Pre-amp Factor dB	Net dB(uV/m)	3m Limit dB(uV/m)	Margin dB	Azimuth	Detectors / Bandwidths Det/RBW/VBW
<b>High Channel</b>										
V	107.900	50.2	12.3	2.4	27.9	36.9	68.0	-31.1	0	Pk/120k/300k
V	107.900	44.9	12.3	2.4	27.9	31.6	48.0	-16.4	0	Av/120k/1.6Hz
H	107.900	53.8	13.0	2.4	27.9	41.2	68.0	-26.8	0	Pk/120k/300k
H	107.900	49.6	13.0	2.4	27.9	37.0	48.0	-11.0	0	Av/120k/1.6Hz
V	107.900	46.0	12.3	2.4	27.9	32.7	68.0	-35.3	45	Pk/120k/300k
V	107.900	42.0	12.3	2.4	27.9	28.7	48.0	-19.3	45	Av/120k/1.6Hz
H	107.900	45.8	13.0	2.4	27.9	33.2	68.0	-34.8	45	Pk/120k/300k
H	107.900	35.8	13.0	2.4	27.9	23.2	48.0	-24.8	45	Av/120k/1.6Hz
V	107.900	52.7	12.3	2.4	27.9	39.4	68.0	-28.6	90	Pk/120k/300k
V	107.900	49.7	12.3	2.4	27.9	36.4	48.0	-11.6	90	Av/120k/1.6Hz
H	107.900	44.7	13.0	2.4	27.9	32.1	68.0	-35.9	90	Pk/120k/300k
H	107.900	40.2	13.0	2.4	27.9	27.6	48.0	-20.4	90	Av/120k/1.6Hz
V	107.900	58.7	12.3	2.4	27.9	45.4	68.0	-22.6	135	Pk/120k/300k
V	107.900	50.8	12.3	2.4	27.9	37.5	48.0	-10.5	135	Av/120k/1.6Hz
H	107.900	54.6	13.0	2.4	27.9	42.0	68.0	-26.0	135	Pk/120k/300k
H	107.900	46.7	13.0	2.4	27.9	34.1	48.0	-13.9	135	Av/120k/1.6Hz
V	107.900	58.6	12.3	2.4	27.9	45.3	68.0	-22.7	180	Pk/120k/300k
V	107.900	56.1	12.3	2.4	27.9	42.8	48.0	-5.2	180	Av/120k/1.6Hz
H	107.900	51.3	13.0	2.4	27.9	38.7	68.0	-29.3	180	Pk/120k/300k
H	107.900	44.5	13.0	2.4	27.9	31.9	48.0	-16.1	180	Av/120k/1.6Hz
V	107.900	54.1	12.3	2.4	27.9	40.8	68.0	-27.2	225	Pk/120k/300k
V	107.900	53.6	12.3	2.4	27.9	40.3	48.0	-7.7	225	Av/120k/1.6Hz
H	107.900	48.3	13.0	2.4	27.9	35.7	68.0	-32.3	225	Pk/120k/300k
H	107.900	47.5	13.0	2.4	27.9	34.9	48.0	-13.1	225	Av/120k/1.6Hz
V	107.900	54.8	12.3	2.4	27.9	41.5	68.0	-26.5	270	Pk/120k/300k
V	107.900	51.7	12.3	2.4	27.9	38.4	48.0	-9.6	270	Av/120k/1.6Hz
H	107.900	52.5	13.0	2.4	27.9	39.9	68.0	-28.1	270	Pk/120k/300k
H	107.900	50.4	13.0	2.4	27.9	37.8	48.0	-10.2	270	Av/120k/1.6Hz
V	107.900	51.0	12.3	2.4	27.9	37.7	68.0	-30.3	315	Pk/120k/300k
V	107.900	44.1	12.3	2.4	27.9	30.8	48.0	-17.2	315	Av/120k/1.6Hz
H	107.900	51.3	13.0	2.4	27.9	38.7	68.0	-29.3	315	Pk/120k/300k
H	107.900	41.4	13.0	2.4	27.9	28.8	48.0	-19.2	315	Av/120k/1.6Hz
<b>Calculations</b>		G=C+D+E-F		I=G-H						

## 6.2 § 15.239(b)/(c) Field strength requirements (FCC 15C - 15.239 (b)) – PowerConnect (In-Situ – Midsize Vehicle)

Tabular Data – Fundamental (Low Channel)

Date: 6/8/2011

Test Distance (m): 3

Frequency Range (MHz): 88-108

Limit: 15\_239-3m

Input power: 12VDC

Modifications for compliance (y/n): n

A	B	C	D	E	F	G	H	I	J	J
Ant. Pol. (V/H)	Frequency MHz	Reading dB(uV)	Antenna Factor dB(1/m)	Cable Loss dB	Pre-amp Factor dB	Net dB(uV/m)	3m Limit dB(uV/m)	Margin dB	Azimuth	Detectors / Bandwidths Det/RBW/VBW
<b>Low Channel</b>										
V	88.100	50.9	8.9	2.1	28.0	33.9	68.0	-34.1	0	Pk/120k/300k
V	88.100	46.5	8.9	2.1	28.0	29.5	48.0	-18.5	0	Av/120k/1.6Hz
H	88.100	52.9	9.9	2.1	28.0	37.0	68.0	-31.0	0	Pk/120k/300k
H	88.100	44.1	9.9	2.1	28.0	28.2	48.0	-19.8	0	Av/120k/1.6Hz
V	88.100	50.3	8.9	2.1	28.0	33.3	68.0	-34.7	45	Pk/120k/300k
V	88.100	43.1	8.9	2.1	28.0	26.1	48.0	-21.9	45	Av/120k/1.6Hz
H	88.100	40.0	9.9	2.1	28.0	24.1	68.0	-43.9	45	Pk/120k/300k
H	88.100	27.5	9.9	2.1	28.0	11.6	48.0	-36.4	45	Av/120k/1.6Hz
V	88.100	46.3	8.9	2.1	28.0	29.3	68.0	-38.7	90	Pk/120k/300k
V	88.100	40.0	8.9	2.1	28.0	23.0	48.0	-25.0	90	Av/120k/1.6Hz
H	88.100	45.9	9.9	2.1	28.0	30.0	68.0	-38.0	90	Pk/120k/300k
H	88.100	38.2	9.9	2.1	28.0	22.3	48.0	-25.7	90	Av/120k/1.6Hz
V	88.100	54.2	8.9	2.1	28.0	37.2	68.0	-30.8	135	Pk/120k/300k
V	88.100	47.2	8.9	2.1	28.0	30.2	48.0	-17.8	135	Av/120k/1.6Hz
H	88.100	46.8	9.9	2.1	28.0	30.9	68.0	-37.1	135	Pk/120k/300k
H	88.100	44.1	9.9	2.1	28.0	28.2	48.0	-19.8	135	Av/120k/1.6Hz
V	88.100	46.9	8.9	2.1	28.0	29.9	68.0	-38.1	180	Pk/120k/300k
V	88.100	44.1	8.9	2.1	28.0	27.1	48.0	-20.9	180	Av/120k/1.6Hz
H	88.100	52.3	9.9	2.1	28.0	36.4	68.0	-31.6	180	Pk/120k/300k
H	88.100	44.9	9.9	2.1	28.0	29.0	48.0	-19.0	180	Av/120k/1.6Hz
V	88.100	51.4	8.9	2.1	28.0	34.4	68.0	-33.6	225	Pk/120k/300k
V	88.100	44.3	8.9	2.1	28.0	27.3	48.0	-20.7	225	Av/120k/1.6Hz
H	88.100	50.5	9.9	2.1	28.0	34.6	68.0	-33.4	225	Pk/120k/300k
H	88.100	48.0	9.9	2.1	28.0	32.1	48.0	-15.9	225	Av/120k/1.6Hz
V	88.100	43.6	8.9	2.1	28.0	26.6	68.0	-41.4	270	Pk/120k/300k
V	88.100	37.1	8.9	2.1	28.0	20.1	48.0	-27.9	270	Av/120k/1.6Hz
H	88.100	49.1	9.9	2.1	28.0	33.2	68.0	-34.8	270	Pk/120k/300k
H	88.100	38.3	9.9	2.1	28.0	22.4	48.0	-25.6	270	Av/120k/1.6Hz
V	88.100	47.7	8.9	2.1	28.0	30.7	68.0	-37.3	315	Pk/120k/300k
V	88.100	43.2	8.9	2.1	28.0	26.2	48.0	-21.8	315	Av/120k/1.6Hz
H	88.100	52.1	9.9	2.1	28.0	36.2	68.0	-31.8	315	Pk/120k/300k
H	88.100	47.5	9.9	2.1	28.0	31.6	48.0	-16.4	315	Av/120k/1.6Hz
<b>Calculations</b>		G=C+D+E-F			I=G-H					

**6.2 § 15.239(b)/(c) Field strength requirements (FCC 15C - 15.239 (b)) – PowerConnect (In-Situ – Midsize Vehicle)**

Tabular Data – Fundamental (Mid Channel)

Date: 6/8/2011

Test Distance (m): 3

Frequency Range (MHz): 88-108

Limit: 15\_239-3m

Input power: 12VDC

Modifications for compliance (y/n): n

A	B	C	D	E	F	G	H	I	J	J
Ant. Pol. (V/H)	Frequency MHz	Reading dB(uV)	Antenna Factor dB(1/m)	Cable Loss dB	Pre-amp Factor dB	Net dB(uV/m)	3m Limit dB(uV/m)	Margin dB	Azimuth	Detectors / Bandwidths Det/RBW/VBW
<b>Mid Channel</b>										
V	96.900	49.1	10.5	2.2	27.9	33.9	68.0	-34.1	0	Pk/120k/300k
V	96.900	38.5	10.5	2.2	27.9	23.3	48.0	-24.7	0	Av/120k/1.6Hz
H	96.900	46.9	11.8	2.2	27.9	33.0	68.0	-35.0	0	Pk/120k/300k
H	96.900	39.4	11.8	2.2	27.9	25.5	48.0	-22.5	0	Av/120k/1.6Hz
V	96.900	47.0	10.5	2.2	27.9	31.8	68.0	-36.2	45	Pk/120k/300k
V	96.900	42.5	10.5	2.2	27.9	27.3	48.0	-20.7	45	Av/120k/1.6Hz
H	96.900	45.0	11.8	2.2	27.9	31.1	68.0	-36.9	45	Pk/120k/300k
H	96.900	40.8	11.8	2.2	27.9	26.9	48.0	-21.1	45	Av/120k/1.6Hz
V	96.900	49.4	10.5	2.2	27.9	34.2	68.0	-33.8	90	Pk/120k/300k
V	96.900	45.9	10.5	2.2	27.9	30.7	48.0	-17.3	90	Av/120k/1.6Hz
H	96.900	38.3	11.8	2.2	27.9	24.4	68.0	-43.6	90	Pk/120k/300k
H	96.900	34.2	11.8	2.2	27.9	20.3	48.0	-27.7	90	Av/120k/1.6Hz
V	96.900	56.1	10.5	2.2	27.9	40.9	68.0	-27.1	135	Pk/120k/300k
V	96.900	52.8	10.5	2.2	27.9	37.6	48.0	-10.4	135	Av/120k/1.6Hz
H	96.900	46.5	11.8	2.2	27.9	32.6	68.0	-35.4	135	Pk/120k/300k
H	96.900	42.6	11.8	2.2	27.9	28.7	48.0	-19.3	135	Av/120k/1.6Hz
V	96.900	56.8	10.5	2.2	27.9	41.6	68.0	-26.4	180	Pk/120k/300k
V	96.900	50.5	10.5	2.2	27.9	35.3	48.0	-12.7	180	Av/120k/1.6Hz
H	96.900	46.1	11.8	2.2	27.9	32.2	68.0	-35.8	180	Pk/120k/300k
H	96.900	41.4	11.8	2.2	27.9	27.5	48.0	-20.5	180	Av/120k/1.6Hz
V	96.900	52.7	10.5	2.2	27.9	37.5	68.0	-30.5	225	Pk/120k/300k
V	96.900	47.7	10.5	2.2	27.9	32.5	48.0	-15.5	225	Av/120k/1.6Hz
H	96.900	42.3	11.8	2.2	27.9	28.4	68.0	-39.6	225	Pk/120k/300k
H	96.900	38.4	11.8	2.2	27.9	24.5	48.0	-23.5	225	Av/120k/1.6Hz
V	96.900	47.4	10.5	2.2	27.9	32.2	68.0	-35.8	270	Pk/120k/300k
V	96.900	40.2	10.5	2.2	27.9	25.0	48.0	-23.0	270	Av/120k/1.6Hz
H	96.900	44.2	11.8	2.2	27.9	30.3	68.0	-37.7	270	Pk/120k/300k
H	96.900	36.8	11.8	2.2	27.9	22.9	48.0	-25.1	270	Av/120k/1.6Hz
V	96.900	46.2	10.5	2.2	27.9	31.0	68.0	-37.0	315	Pk/120k/300k
V	96.900	40.1	10.5	2.2	27.9	24.9	48.0	-23.1	315	Av/120k/1.6Hz
H	96.900	50.2	11.8	2.2	27.9	36.3	68.0	-31.7	315	Pk/120k/300k
H	96.900	37.8	11.8	2.2	27.9	23.9	48.0	-24.1	315	Av/120k/1.6Hz
<b>Calculations</b>		G=C+D+E-F			I=G-H					

### 6.2 § 15.239(b)/(c) Field strength requirements (FCC 15C - 15.239 (b)) – PowerConnect (In-Situ – Midsize Vehicle)

Tabular Data – Fundamental (High Channel)

Date: 6/8/2011

Test Distance (m): 3

Frequency Range (MHz): 88-108

Limit: 15\_239-3m

Input power: 12VDC

Modifications for compliance (y/n): n

A	B	C	D	E	F	G	H	I	J	J
Ant. Pol. (V/H)	Frequency MHz	Reading dB(uV)	Antenna Factor dB(1/m)	Cable Loss dB	Pre-amp Factor dB	Net dB(uV/m)	3m Limit dB(uV/m)	Margin dB	Azimuth	Detectors / Bandwidths Det/RBW/VBW
<b>High Channel</b>										
V	107.900	43.7	12.3	2.4	27.9	30.4	68.0	-37.6	0	Pk/120k/300k
V	107.900	39.5	12.3	2.4	27.9	26.2	48.0	-21.8	0	Av/120k/1.6Hz
H	107.900	40.5	13.0	2.4	27.9	27.9	68.0	-40.1	0	Pk/120k/300k
H	107.900	37.9	13.0	2.4	27.9	25.3	48.0	-22.7	0	Av/120k/1.6Hz
V	107.900	46.6	12.3	2.4	27.9	33.3	68.0	-34.7	45	Pk/120k/300k
V	107.900	39.7	12.3	2.4	27.9	26.4	48.0	-21.6	45	Av/120k/1.6Hz
H	107.900	40.7	13.0	2.4	27.9	28.1	68.0	-39.9	45	Pk/120k/300k
H	107.900	38.3	13.0	2.4	27.9	25.7	48.0	-22.3	45	Av/120k/1.6Hz
V	107.900	41.6	12.3	2.4	27.9	28.3	68.0	-39.7	90	Pk/120k/300k
V	107.900	36.0	12.3	2.4	27.9	22.7	48.0	-25.3	90	Av/120k/1.6Hz
H	107.900	37.8	13.0	2.4	27.9	25.2	68.0	-42.8	90	Pk/120k/300k
H	107.900	34.9	13.0	2.4	27.9	22.3	48.0	-25.7	90	Av/120k/1.6Hz
V	107.900	49.0	12.3	2.4	27.9	35.7	68.0	-32.3	135	Pk/120k/300k
V	107.900	46.7	12.3	2.4	27.9	33.4	48.0	-14.6	135	Av/120k/1.6Hz
H	107.900	37.7	13.0	2.4	27.9	25.1	68.0	-42.9	135	Pk/120k/300k
H	107.900	30.7	13.0	2.4	27.9	18.1	48.0	-29.9	135	Av/120k/1.6Hz
V	107.900	50.3	12.3	2.4	27.9	37.0	68.0	-31.0	180	Pk/120k/300k
V	107.900	41.3	12.3	2.4	27.9	28.0	48.0	-20.0	180	Av/120k/1.6Hz
H	107.900	47.9	13.0	2.4	27.9	35.3	68.0	-32.7	180	Pk/120k/300k
H	107.900	43.3	13.0	2.4	27.9	30.7	48.0	-17.3	180	Av/120k/1.6Hz
V	107.900	47.4	12.3	2.4	27.9	34.1	68.0	-33.9	225	Pk/120k/300k
V	107.900	42.6	12.3	2.4	27.9	29.3	48.0	-18.7	225	Av/120k/1.6Hz
H	107.900	47.1	13.0	2.4	27.9	34.5	68.0	-33.5	225	Pk/120k/300k
H	107.900	38.0	13.0	2.4	27.9	25.4	48.0	-22.6	225	Av/120k/1.6Hz
V	107.900	39.5	12.3	2.4	27.9	26.2	68.0	-41.8	270	Pk/120k/300k
V	107.900	34.3	12.3	2.4	27.9	21.0	48.0	-27.0	270	Av/120k/1.6Hz
H	107.900	43.5	13.0	2.4	27.9	30.9	68.0	-37.1	270	Pk/120k/300k
H	107.900	40.5	13.0	2.4	27.9	27.9	48.0	-20.1	270	Av/120k/1.6Hz
V	107.900	42.7	12.3	2.4	27.9	29.4	68.0	-38.6	315	Pk/120k/300k
V	107.900	38.3	12.3	2.4	27.9	25.0	48.0	-23.0	315	Av/120k/1.6Hz
H	107.900	48.5	13.0	2.4	27.9	35.9	68.0	-32.1	315	Pk/120k/300k
H	107.900	35.9	13.0	2.4	27.9	23.3	48.0	-24.7	315	Av/120k/1.6Hz
<b>Calculations</b>		G=C+D+E-F			I=G-H					

### 6.3 § 15.239(b)/(c) Field strength requirements (FCC 15C - 15.239 (b)) – PowerConnect (In-Situ – Large Vehicle)

Tabular Data – Fundamental (Low Channel)

Date: 6/8/2011

Test Distance (m): 3

Frequency Range (MHz): 88-108

Limit: 15\_239-3m

Input power: 12VDC

Modifications for compliance (y/n): n

A	B	C	D	E	F	G	H	I	J	J
Ant. Pol. (V/H)	Frequency MHz	Reading dB(uV)	Antenna Factor dB(1/m)	Cable Loss dB	Pre-amp Factor dB	Net dB(uV/m)	3m Limit dB(uV/m)	Margin dB	Azimuth	Detectors / Bandwidths Det/RBW/VBW
<b>Low Channel</b>										
V	88.100	55.5	8.9	2.1	28.0	38.5	68.0	-29.5	0	Pk/120k/300k
V	88.100	44.4	8.9	2.1	28.0	27.4	48.0	-20.6	0	Av/120k/1.6Hz
H	88.100	36.9	9.9	2.1	28.0	21.0	68.0	-47.0	0	Pk/120k/300k
H	88.100	32.5	9.9	2.1	28.0	16.6	48.0	-31.4	0	Av/120k/1.6Hz
V	88.100	49.3	8.9	2.1	28.0	32.3	68.0	-35.7	45	Pk/120k/300k
V	88.100	44.2	8.9	2.1	28.0	27.2	48.0	-20.8	45	Av/120k/1.6Hz
H	88.100	46.7	9.9	2.1	28.0	30.8	68.0	-37.2	45	Pk/120k/300k
H	88.100	41.5	9.9	2.1	28.0	25.6	48.0	-22.4	45	Av/120k/1.6Hz
V	88.100	48.3	8.9	2.1	28.0	31.3	68.0	-36.7	90	Pk/120k/300k
V	88.100	43.7	8.9	2.1	28.0	26.7	48.0	-21.3	90	Av/120k/1.6Hz
H	88.100	50.1	9.9	2.1	28.0	34.2	68.0	-33.8	90	Pk/120k/300k
H	88.100	44.4	9.9	2.1	28.0	28.5	48.0	-19.5	90	Av/120k/1.6Hz
V	88.100	47.0	8.9	2.1	28.0	30.0	68.0	-38.0	135	Pk/120k/300k
V	88.100	41.8	8.9	2.1	28.0	24.8	48.0	-23.2	135	Av/120k/1.6Hz
H	88.100	46.0	9.9	2.1	28.0	30.1	68.0	-37.9	135	Pk/120k/300k
H	88.100	43.0	9.9	2.1	28.0	27.1	48.0	-20.9	135	Av/120k/1.6Hz
V	88.100	46.7	8.9	2.1	28.0	29.7	68.0	-38.3	180	Pk/120k/300k
V	88.100	36.0	8.9	2.1	28.0	19.0	48.0	-29.0	180	Av/120k/1.6Hz
H	88.100	43.2	9.9	2.1	28.0	27.3	68.0	-40.7	180	Pk/120k/300k
H	88.100	33.8	9.9	2.1	28.0	17.9	48.0	-30.1	180	Av/120k/1.6Hz
V	88.100	42.8	8.9	2.1	28.0	25.8	68.0	-42.2	225	Pk/120k/300k
V	88.100	40.0	8.9	2.1	28.0	23.0	48.0	-25.0	225	Av/120k/1.6Hz
H	88.100	47.5	9.9	2.1	28.0	31.6	68.0	-36.4	225	Pk/120k/300k
H	88.100	44.6	9.9	2.1	28.0	28.7	48.0	-19.3	225	Av/120k/1.6Hz
V	88.100	47.1	8.9	2.1	28.0	30.1	68.0	-37.9	270	Pk/120k/300k
V	88.100	43.2	8.9	2.1	28.0	26.2	48.0	-21.8	270	Av/120k/1.6Hz
H	88.100	49.6	9.9	2.1	28.0	33.7	68.0	-34.3	270	Pk/120k/300k
H	88.100	44.0	9.9	2.1	28.0	28.1	48.0	-19.9	270	Av/120k/1.6Hz
V	88.100	45.0	8.9	2.1	28.0	28.0	68.0	-40.0	315	Pk/120k/300k
V	88.100	37.7	8.9	2.1	28.0	20.7	48.0	-27.3	315	Av/120k/1.6Hz
H	88.100	48.7	9.9	2.1	28.0	32.8	68.0	-35.2	315	Pk/120k/300k
H	88.100	41.3	9.9	2.1	28.0	25.4	48.0	-22.6	315	Av/120k/1.6Hz
<b>Calculations</b>		G=C+D+E-F			I=G-H					

### 6.3 § 15.239(b)/(c) Field strength requirements (FCC 15C - 15.239 (b)) – PowerConnect (In-Situ – Large Vehicle)

Tabular Data – Fundamental (Mid Channel)

**Date:** 6/8/2011

**Test Distance (m):** 3

**Frequency Range (MHz):** 88-108

**Limit:** 15\_239-3m

**Input power:** 12VDC

**Modifications for compliance (y/n):** n

A	B	C	D	E	F	G	H	I	J	J
Ant. Pol. (V/H)	Frequency MHz	Reading dB(uV)	Antenna Factor dB(1/m)	Cable Loss dB	Pre-amp Factor dB	Net dB(uV/m)	3m Limit dB(uV/m)	Margin dB	Azimuth	Detectors / Bandwidths Det/RBW/VBW
<b>Mid Channel</b>										
V	96.900	38.7	10.5	2.2	27.9	23.5	68.0	-44.5	0	Pk/120k/300k
V	96.900	33.4	10.5	2.2	27.9	18.2	48.0	-29.8	0	Av/120k/1.6Hz
H	96.900	34.1	11.8	2.2	27.9	20.2	68.0	-47.8	0	Pk/120k/300k
H	96.900	28.1	11.8	2.2	27.9	14.2	48.0	-33.8	0	Av/120k/1.6Hz
V	96.900	36.5	10.5	2.2	27.9	21.3	68.0	-46.7	45	Pk/120k/300k
V	96.900	32.3	10.5	2.2	27.9	17.1	48.0	-30.9	45	Av/120k/1.6Hz
H	96.900	38.9	11.8	2.2	27.9	25.0	68.0	-43.0	45	Pk/120k/300k
H	96.900	32.7	11.8	2.2	27.9	18.8	48.0	-29.2	45	Av/120k/1.6Hz
V	96.900	38.9	10.5	2.2	27.9	23.7	68.0	-44.3	90	Pk/120k/300k
V	96.900	35.4	10.5	2.2	27.9	20.2	48.0	-27.8	90	Av/120k/1.6Hz
H	96.900	39.1	11.8	2.2	27.9	25.2	68.0	-42.8	90	Pk/120k/300k
H	96.900	36.3	11.8	2.2	27.9	22.4	48.0	-25.6	90	Av/120k/1.6Hz
V	96.900	40.3	10.5	2.2	27.9	25.1	68.0	-42.9	135	Pk/120k/300k
V	96.900	37.6	10.5	2.2	27.9	22.4	48.0	-25.6	135	Av/120k/1.6Hz
H	96.900	41.6	11.8	2.2	27.9	27.7	68.0	-40.3	135	Pk/120k/300k
H	96.900	39.2	11.8	2.2	27.9	25.3	48.0	-22.7	135	Av/120k/1.6Hz
V	96.900	44.7	10.5	2.2	27.9	29.5	68.0	-38.5	180	Pk/120k/300k
V	96.900	41.4	10.5	2.2	27.9	26.2	48.0	-21.8	180	Av/120k/1.6Hz
H	96.900	42.2	11.8	2.2	27.9	28.3	68.0	-39.7	180	Pk/120k/300k
H	96.900	38.9	11.8	2.2	27.9	25.0	48.0	-23.0	180	Av/120k/1.6Hz
V	96.900	44.1	10.5	2.2	27.9	28.9	68.0	-39.1	225	Pk/120k/300k
V	96.900	38.8	10.5	2.2	27.9	23.6	48.0	-24.4	225	Av/120k/1.6Hz
H	96.900	48.3	11.8	2.2	27.9	34.4	68.0	-33.6	225	Pk/120k/300k
H	96.900	42.3	11.8	2.2	27.9	28.4	48.0	-19.6	225	Av/120k/1.6Hz
V	96.900	40.2	10.5	2.2	27.9	25.0	68.0	-43.0	270	Pk/120k/300k
V	96.900	34.6	10.5	2.2	27.9	19.4	48.0	-28.6	270	Av/120k/1.6Hz
H	96.900	37.3	11.8	2.2	27.9	23.4	68.0	-44.6	270	Pk/120k/300k
H	96.900	29.3	11.8	2.2	27.9	15.4	48.0	-32.6	270	Av/120k/1.6Hz
V	96.900	43.7	10.5	2.2	27.9	28.5	68.0	-39.5	315	Pk/120k/300k
V	96.900	32.8	10.5	2.2	27.9	17.6	48.0	-30.4	315	Av/120k/1.6Hz
H	96.900	39.7	11.8	2.2	27.9	25.8	68.0	-42.2	315	Pk/120k/300k
H	96.900	34.9	11.8	2.2	27.9	21.0	48.0	-27.0	315	Av/120k/1.6Hz
<b>Calculations</b>		G=C+D+E-F			I=G-H					



### 6.3 § 15.239(b)/(c) Field strength requirements (FCC 15C - 15.239 (b)) – PowerConnect (In-Situ – Large Vehicle)

Tabular Data – Fundamental (High Channel)

Date: 6/8/2011

Test Distance (m): 3

Frequency Range (MHz): 88-108

Limit: 15\_239-3m

Input power: 12VDC

Modifications for compliance (y/n): n

A	B	C	D	E	F	G	H	I	J	J
Ant. Pol. (V/H)	Frequency MHz	Reading dB(uV)	Antenna Factor dB(1/m)	Cable Loss dB	Pre-amp Factor dB	Net dB(uV/m)	3m Limit dB(uV/m)	Margin dB	Azimuth	Detectors / Bandwidths Det/RBW/VBW
<b>High Channel</b>										
V	107.900	39.9	12.3	2.4	27.9	26.6	68.0	-41.4	0	Pk/120k/300k
V	107.900	35.9	12.3	2.4	27.9	22.6	48.0	-25.4	0	Av/120k/1.6Hz
H	107.900	34.2	13.0	2.4	27.9	21.6	68.0	-46.4	0	Pk/120k/300k
H	107.900	29.9	13.0	2.4	27.9	17.3	48.0	-30.7	0	Av/120k/1.6Hz
V	107.900	41.9	12.3	2.4	27.9	28.6	68.0	-39.4	45	Pk/120k/300k
V	107.900	35.8	12.3	2.4	27.9	22.5	48.0	-25.5	45	Av/120k/1.6Hz
H	107.900	39.0	13.0	2.4	27.9	26.4	68.0	-41.6	45	Pk/120k/300k
H	107.900	35.8	13.0	2.4	27.9	23.2	48.0	-24.8	45	Av/120k/1.6Hz
V	107.900	40.0	12.3	2.4	27.9	26.7	68.0	-41.3	90	Pk/120k/300k
V	107.900	36.3	12.3	2.4	27.9	23.0	48.0	-25.0	90	Av/120k/1.6Hz
H	107.900	35.5	13.0	2.4	27.9	22.9	68.0	-45.1	90	Pk/120k/300k
H	107.900	30.6	13.0	2.4	27.9	18.0	48.0	-30.0	90	Av/120k/1.6Hz
V	107.900	37.0	12.3	2.4	27.9	23.7	68.0	-44.3	135	Pk/120k/300k
V	107.900	33.9	12.3	2.4	27.9	20.6	48.0	-27.4	135	Av/120k/1.6Hz
H	107.900	40.1	13.0	2.4	27.9	27.5	68.0	-40.5	135	Pk/120k/300k
H	107.900	37.7	13.0	2.4	27.9	25.1	48.0	-22.9	135	Av/120k/1.6Hz
V	107.900	35.4	12.3	2.4	27.9	22.1	68.0	-45.9	180	Pk/120k/300k
V	107.900	30.8	12.3	2.4	27.9	17.5	48.0	-30.5	180	Av/120k/1.6Hz
H	107.900	37.9	13.0	2.4	27.9	25.3	68.0	-42.7	180	Pk/120k/300k
H	107.900	34.7	13.0	2.4	27.9	22.1	48.0	-25.9	180	Av/120k/1.6Hz
V	107.900	32.6	12.3	2.4	27.9	19.3	68.0	-48.7	225	Pk/120k/300k
V	107.900	25.3	12.3	2.4	27.9	12.0	48.0	-36.0	225	Av/120k/1.6Hz
H	107.900	36.6	13.0	2.4	27.9	24.0	68.0	-44.0	225	Pk/120k/300k
H	107.900	31.9	13.0	2.4	27.9	19.3	48.0	-28.7	225	Av/120k/1.6Hz
V	107.900	35.3	12.3	2.4	27.9	22.0	68.0	-46.0	270	Pk/120k/300k
V	107.900	28.9	12.3	2.4	27.9	15.6	48.0	-32.4	270	Av/120k/1.6Hz
H	107.900	36.6	13.0	2.4	27.9	24.0	68.0	-44.0	270	Pk/120k/300k
H	107.900	31.8	13.0	2.4	27.9	19.2	48.0	-28.8	270	Av/120k/1.6Hz
V	107.900	38.5	12.3	2.4	27.9	25.2	68.0	-42.8	315	Pk/120k/300k
V	107.900	34.7	12.3	2.4	27.9	21.4	48.0	-26.6	315	Av/120k/1.6Hz
H	107.900	35.4	13.0	2.4	27.9	22.8	68.0	-45.2	315	Pk/120k/300k
H	107.900	29.6	13.0	2.4	27.9	17.0	48.0	-31.0	315	Av/120k/1.6Hz
<b>Calculations</b>		G=C+D+E-F		I=G-H						

## 7.0 Test Equipment List

Description	Manufacturer	Model	Serial Number	Cal Due
Bilog Antenna	Chase	CBL6112A	2622	10/13/2011
Cable E205	Megaphase	TM18 NKNK 118	9053201 003	05/12/2012
Cable E206	Megaphase	TM18 NKNK 118	9053201 004	05/12/2012
Cable MP3	Megaphase	G919-NKNK-394	MP3	05/12/2012
Cable ST-3	Storm Products Co.	PR90-195-7MTR	09-07-601	08/19/2011
EMI Receiver	Hewlett Packard	8546A	213109	10/26/2011
EMI Receiver RF Preselector	Hewlett Packard	85460A	213108	10/26/2011
Preamplifier, 20MHz to 2GHz, 30 dB	A.H. Systems	PAM-0202	2358	12/29/2011

**7.0 Revision History**

<b>Revision Level</b>	<b>Date</b>	<b>Report Number</b>	<b>Notes</b>
Original issue	June 14, 2011	100410247ATL-001	--