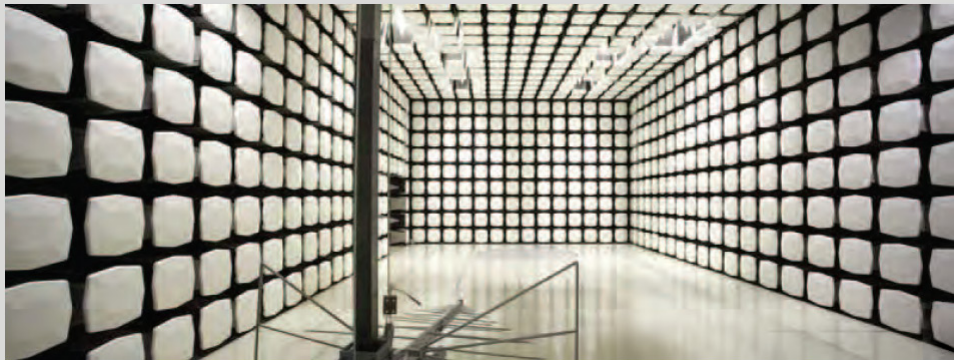




**Digi International  
ConnectCore Wi-i.MX51**

**Report #: DGII0046.1**



Report Prepared By Northwest EMC Inc.

NORTHWEST EMC – (888) 364-2378 – [www.nwemc.com](http://www.nwemc.com)

California – Minnesota – Oregon – New York – Washington



22975 NW Evergreen Parkway  
Suite 400  
Hillsboro, Oregon 97124

**Certificate of Test**  
Last Date of Test: February 15, 2012  
Digi International  
Model: ConnectCore Wi-i.MX51

**Emissions**

Test Description	Specification	Test Method	Pass/Fail
Spurious Radiated Emissions	FCC 15.407:2012	ANSI C63.10:2009	Pass

**Deviations From Test Standards**

None

**Approved By:**

Tim O'Shea, Operations Manager



NVLAP Lab Code: 200881-0

**Test Facility**

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

Northwest EMC, Inc.  
9349 W Broadway Ave.  
Brooklyn Park, MN 55445

Phone: (763) 425-2281 Fax: (763) 424-3469

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada (Site filing #2834E-1).

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

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



## Revision History

Revision Number	Description	Date	Page Number
00	None		

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**United States**

**FCC** - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

**A2LA** - Accredited by A2LA to ISO / IEC Guide 65 as a product certifier. This allows Northwest EMC to certify transmitters to FCC and IC specifications.

**NVLAP** - Each laboratory is accredited by NVLAP to ISO 17025. The scope includes radio, ITE, and medical standards from around the world. See: <http://www.nwemc.com/accreditations/>

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**Canada**

**IC** - Recognized by Industry Canada as a Certification Body (CB). Certification chambers and Open Area Test Sites are filed with IC.

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**European Union**

**European Commission** – Validated by the European Commission as a Conformity Assessment Body (CAB) under the EMC directive and as a Notified Body under the R&TTE Directive.

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**Australia/New Zealand**

**ACMA** - Recognized by ACMA as a CAB for the acceptance of test data.

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**Korea**

**KCC / RRA** - Recognized by KCC's RRA as a CAB for the acceptance of test data.

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**Japan**

**VCCI** - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

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**Taiwan**

**BSMI** – Recognized by BSMI as a CAB for the acceptance of test data.

**NCC** - Recognized by NCC as a CAB for the acceptance of test data.

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**Singapore**

**IDA** – Recognized by IDA as a CAB for the acceptance of test data.

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**Hong Kong**

**OFTA** – Recognized by OFTA as a CAB for the acceptance of test data.

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**Vietnam**

**MIC** – Recognized by MIC as a CAB for the acceptance of test data.

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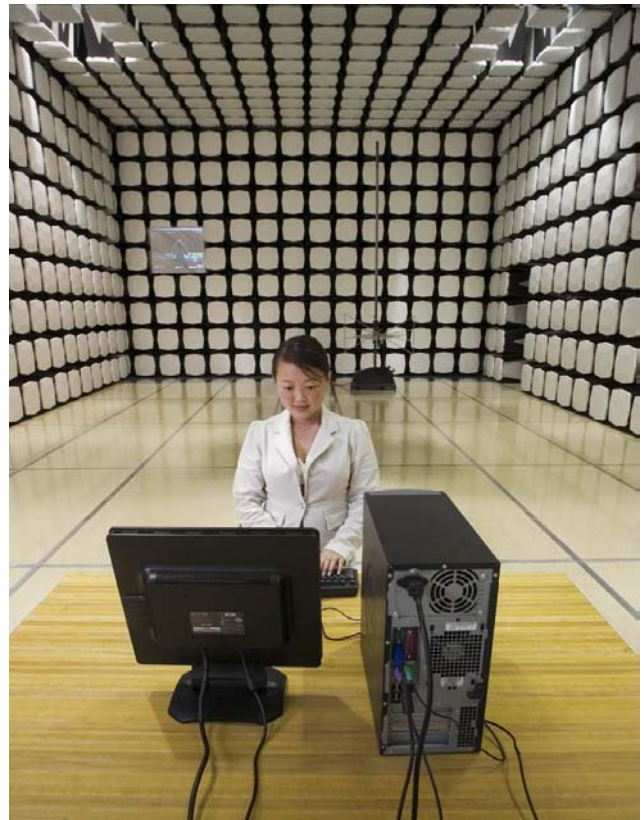
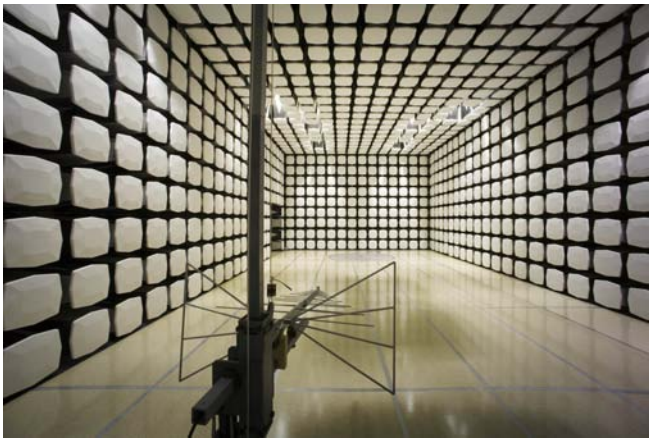
**Russia**

**GOST** – Accredited by Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC to perform EMC and Hygienic testing for Information Technology products to GOST standards.

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<b>Oregon</b> Labs EV01-EV12 22975 NW Evergreen Pkwy, #400 Hillsboro, OR 97124 (503) 844-4066	<b>California</b> Labs OC01-OC13 41 Tesla Irvine, CA 92618 (949) 861-8918	<b>New York</b> Labs WA01-WA04 4939 Jordan Rd. Elbridge, NY 13060 (315) 685-0796	<b>Minnesota</b> Labs MN01-MN08 9349 W Broadway Ave. Brooklyn Park, MN 55445 (763) 425-2281	<b>Washington</b> Labs SU01-SU07 14128 339 <sup>th</sup> Ave. SE Sultan, WA 98294 (360) 793-8675
<b>VCCI</b>				
C-1071, R-1025, G-84, C-2687, T-1658, R-2318	R-1943, G-85, C-2766, T-1659, G-548		R-3125, G-86, G-141, C-3464, T-1634	R-871, G-83, C-3265, T-1511
<b>Industry Canada</b>				
2834D-1, 2834D-2	2834B-1, 2834B-2, 2834B-3		2834E-1	2834C-1





## Product Description

### Client and Equipment Under Test (EUT) Information

<b>Company Name:</b>	Digi International
<b>Address:</b>	11001 Bren Road East
<b>City, State, Zip:</b>	Minnetonka, MN 55343
<b>Test Requested By:</b>	Bradley Ferguson
<b>Model:</b>	ConnectCore Wi-i.MX51
<b>First Date of Test:</b>	February 13, 2012
<b>Last Date of Test:</b>	February 15, 2012
<b>Receipt Date of Samples:</b>	February 13, 2012
<b>Equipment Design Stage:</b>	Prototype
<b>Equipment Condition:</b>	No Damage

### Information Provided by the Party Requesting the Test

**Functional Description of the EUT (Equipment Under Test):**

802.11a/b/g radio. Previously certified under FCC ID: MCQ-50M1699. Seeking C2PC of a new antenna: Laird Nanoblade embedded antenna, 2dBi-4dBi (NanoBlade-IP04, CAF94505)

**Testing Objective:**

Seeking to demonstrate compliance of a new antenna under FCC 15.407 for operation in the 5.2, 5.3, and 5.6 bands

**Configuration 1 DGII0046**

<b>EUT</b>			
<b>Description</b>	<b>Manufacturer</b>	<b>Model/Part Number</b>	<b>Serial Number</b>
ConnectCore Module	Digi International	50001699	00409D5163F2

<b>Peripherals in test setup boundary</b>			
<b>Description</b>	<b>Manufacturer</b>	<b>Model/Part Number</b>	<b>Serial Number</b>
DC Adapter	GlobTek Inc	GT-41062-1812-T3	1511
Proto Board	Digi International	55001488-02	W114955246

<b>Remote Equipment Outside of Test Setup Boundary</b>			
<b>Description</b>	<b>Manufacturer</b>	<b>Model/Part Number</b>	<b>Serial Number</b>
Laptop	Lenovo	7417-TPU	L3-A9994 08/09

<b>Cables</b>					
<b>Cable Type</b>	<b>Shield</b>	<b>Length (m)</b>	<b>Ferrite</b>	<b>Connection 1</b>	<b>Connection 2</b>
AC Power	No	1.8m	No	DC Adapter	AC Mains
DC Power	No	1.8m	Yes	Proto Board	DC Adapter
Serial	Yes	>3.0m	No	Proto Board	Laptop
<b>PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.</b>					

**Equipment Modifications**

Item	Date	Test	Modification	Note	Disposition of EUT
1	2/13/2012	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	2/15/2012	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.



## Spurious Radiated Emissions

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

### MODES OF OPERATION

Transmitting 802.11, 6 Mbps, 36 Mbps, 54 Mbps, MCS0, MCS7 at Ch 36, 48, 52, 64 with Pwr Lvl 18, Ch 100, 120, 140 with Pwr Lvl 24 (See Comments)

### POWER SETTINGS INVESTIGATED

110VAC/60Hz

### CONFIGURATIONS INVESTIGATED

DGII0046 - 1

### FREQUENCY RANGE INVESTIGATED

Start Frequency | 30 MHz | Stop Frequency | 40 GHz

### SAMPLE CALCULATIONS

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

### TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
5G Notch Filter	Micro-Tronics	BRC50703	HHB	6/2/2011	24 mo
5G Notch Filter	Micro-Tronics	BRC50704	HHA	6/2/2011	24 mo
Low Pass Filter	Micro-Tronics	LPM50004	HGK	7/9/2010	24 mo
Pre-Amplifier	Miteq	JSW45-26004000-40-5P	AVN	10/12/2011	12 mo
26-40GHz Cable	N/A	TTBJ141-KMKM-72	EVX	10/12/2011	12 mo
Antenna, Horn	ETS	3160-10	AIC	NCR	0 mo
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	2/6/2012	12 mo
MN05 Cables	N/A	18-26GHz Standard Gain Horn Cable	EVD	2/6/2012	12 mo
Antenna, Horn	ETS	3160-09	AHG	NCR	0 mo
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVW	7/1/2011	12 mo
Antenna, Horn	ETS Lindgren	3160-08	AIQ	NCR	0 mo
MN05 Cables	ESM Cable Corp.	Standard Gain Horn Cables	MNJ	7/1/2011	12 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVV	7/1/2011	12 mo
Antenna, Horn	ETS	3160-07	AXP	NCR	0 mo
Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVX	7/1/2011	12 mo
MN05 Cables	ESM Cable Corp.	Double Ridge Guide Horn Cables	MNI	10/18/2011	12 mo
Antenna, Horn (DRG)	ETS Lindgren	3115	AIP	6/29/2011	24 mo
Pre-Amplifier	Miteq	AM-1616-1000	AVY	7/1/2011	12 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	1/24/2012	12 mo
Antenna X-Wing Bilog 30MHZ-2GHz	Teseq	CBL 6141B	AYD	12/19/2011	12 mo
Spectrum Analyzer	Agilent	E4446A	AAT	2/15/2011	13 mo

### MEASUREMENT BANDWIDTHS

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

Measurements were made using the IF bandwidths and detectors specified. No video filter was used, except in the case of the FCC Average Measurements above 1GHz. In that case, a peak detector with a 10Hz video bandwidth was used.

### MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

### TEST DESCRIPTION

The highest gain antenna of each type to be used with the EUT were tested. The EUT was configured for the lowest, a middle, and the highest transmit frequency in each operational band. For each configuration, the spectrum was scanned throughout the specified range. Measurements were made to satisfy the three requirements of 47 CFR 15.407: Field strength under 1GHz, Restricted Bands of 47 CFR 15.205, and EIRP of 47 CFR 15.407. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis, and adjusting the measurement antenna height and polarization (per ANSI C63.10:2009). A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity.

The amplitude and frequency of the highest emissions were noted. The EUT was then replaced with a ½ wave dipole that was successively tuned to each of the highest spurious emissions. A signal generator was connected to the dipole (horn antenna for frequencies above 1GHz), and its output was adjusted to match the level previously noted for each frequency. The output of the signal generator was recorded, and by factoring in the cable loss to the dipole antenna (or horn) and its gain (dBi); the effective radiated power for each radiated spurious emission was determined.

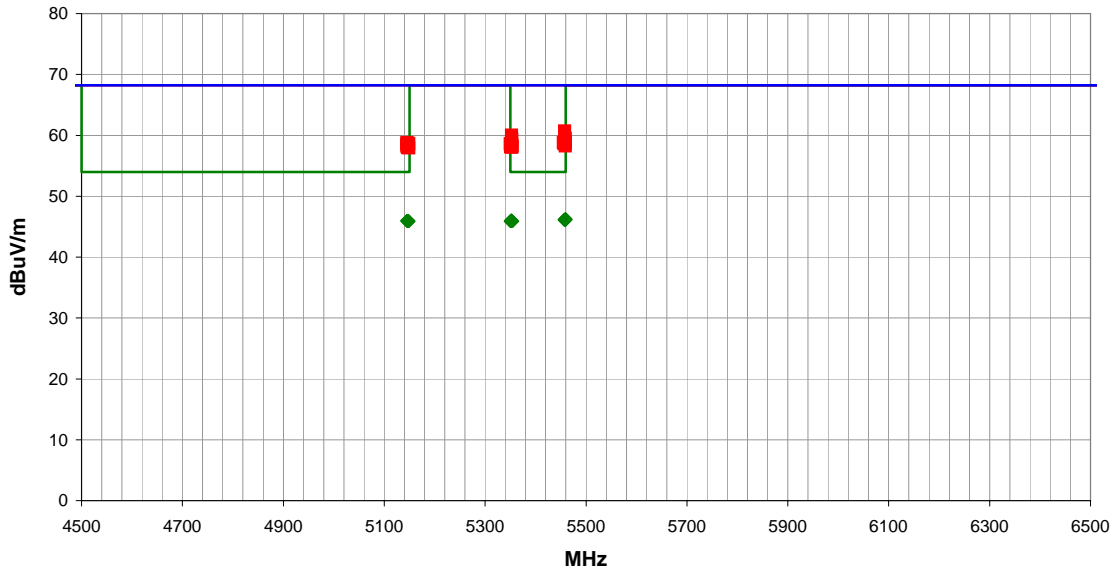


## Spurious Radiated Emissions

Work Order:	DGII0046	Date:	02/15/12	<i>Trevor Buls</i>
Project:	None	Temperature:	24.57 °C	
Job Site:	MN05	Humidity:	15.15% RH	
Serial Number:	00409D5163F2	Barometric Pres.:	1014.4 mbar	Tested by: Trevor Buls
EUT:	ConnectCore Wi-i.MX51			
Configuration:	1			
Customer:	Digi International			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting 802.11, 6 Mbps, 36 Mbps, 54 Mbps, MCS0, MCS7 at Ch 36, 48, 52, 64 with Pwr Lvl 18, Ch 100, 120, 140 with Pwr lvl 24 (See Comments)			
Deviations:	None			
Comments:	None			

Test Specifications	Test Method
FCC 15.407:2012	ANSI C63.10:2009

Run #	49	Test Distance (m)	1	Antenna Height(s)	1-4m	Results	Pass
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Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
5457.658	33.8	36.5	1.0	0.0	1.0	0.0	Horz	PK	-9.5	60.7	68.2	-7.5	Ch 100, 36 Mbps, Pwr 24, EUT on Side
5458.808	19.4	36.5	1.0	0.0	1.0	0.0	Horz	AV	-9.5	46.3	54.0	-7.7	Ch 100, MCS7, Pwr 24, EUT on Side
5459.925	19.3	36.5	1.0	0.0	1.0	0.0	Horz	AV	-9.5	46.2	54.0	-7.8	Ch 100, MCS0, Pwr 24, EUT on Side
5459.817	19.3	36.5	1.0	0.0	1.0	0.0	Horz	AV	-9.5	46.2	54.0	-7.8	Ch 100, 6 Mbps, Pwr 24, EUT on Side
5459.675	19.3	36.5	1.0	0.0	1.0	0.0	Horz	AV	-9.5	46.2	54.0	-7.8	Ch 100, 54 Mbps, Pwr 24, EUT on Side
5457.492	19.3	36.5	1.0	0.0	1.0	0.0	Horz	AV	-9.5	46.2	54.0	-7.8	Ch 100, 36 Mbps, Pwr 24, EUT on Side
5459.742	19.2	36.5	1.0	0.0	1.0	0.0	Vert	AV	-9.5	46.1	54.0	-7.9	Ch 100, MCS7, Pwr 24, EUT on Side
5459.133	19.2	36.5	1.0	0.0	1.0	0.0	Vert	AV	-9.5	46.1	54.0	-7.9	Ch 100, 6 Mbps, Pwr 24, EUT on Side
5458.650	19.2	36.5	1.0	0.0	1.0	0.0	Vert	AV	-9.5	46.1	54.0	-7.9	Ch 100, 54 Mbps, Pwr 24, EUT on Side
5456.917	19.2	36.5	1.0	0.0	1.0	0.0	Vert	AV	-9.5	46.1	54.0	-7.9	Ch 100, 36 Mbps, Pwr 24, EUT on Side
5456.917	19.2	36.5	1.0	0.0	1.0	0.0	Vert	AV	-9.5	46.1	54.0	-7.9	Ch 100, MCS0, Pwr 24, EUT on Side
5351.775	19.4	36.2	1.0	0.0	1.0	0.0	Horz	AV	-9.5	46.1	54.0	-7.9	Ch 64, MCS7, Pwr 18, EUT on Side
5352.458	19.3	36.2	1.0	0.0	1.0	0.0	Horz	AV	-9.5	46.0	54.0	-8.0	Ch 64, 36 Mbps, Pwr 18, EUT on Side
5352.225	19.3	36.2	1.0	0.0	1.0	0.0	Horz	AV	-9.5	46.0	54.0	-8.0	Ch 64, 54 Mbps, Pwr 18, EUT on Side
5351.375	19.3	36.2	1.0	0.0	1.0	0.0	Horz	AV	-9.5	46.0	54.0	-8.0	Ch 64, MCS0, Pwr 18, EUT on Side
5350.983	19.3	36.2	1.0	0.0	1.0	0.0	Horz	AV	-9.5	46.0	54.0	-8.0	Ch 64, 6 Mbps, Pwr 18, EUT on Side
5147.500	19.7	35.8	1.0	0.0	1.0	0.0	Horz	AV	-9.5	46.0	54.0	-8.0	Ch 36, MCS0, Pwr 18, EUT on Side
5147.192	19.7	35.8	1.0	0.0	1.0	0.0	Horz	AV	-9.5	46.0	54.0	-8.0	Ch 36, 6 Mbps, Pwr 18, EUT on Side
5146.483	19.7	35.8	1.0	0.0	1.0	0.0	Horz	AV	-9.5	46.0	54.0	-8.0	Ch 36, MCS7, Pwr 18, EUT on Side
5145.300	19.7	35.8	1.0	0.0	1.0	0.0	Horz	AV	-9.5	46.0	54.0	-8.0	Ch 36, 36 Mbps, Pwr 18, EUT on Side



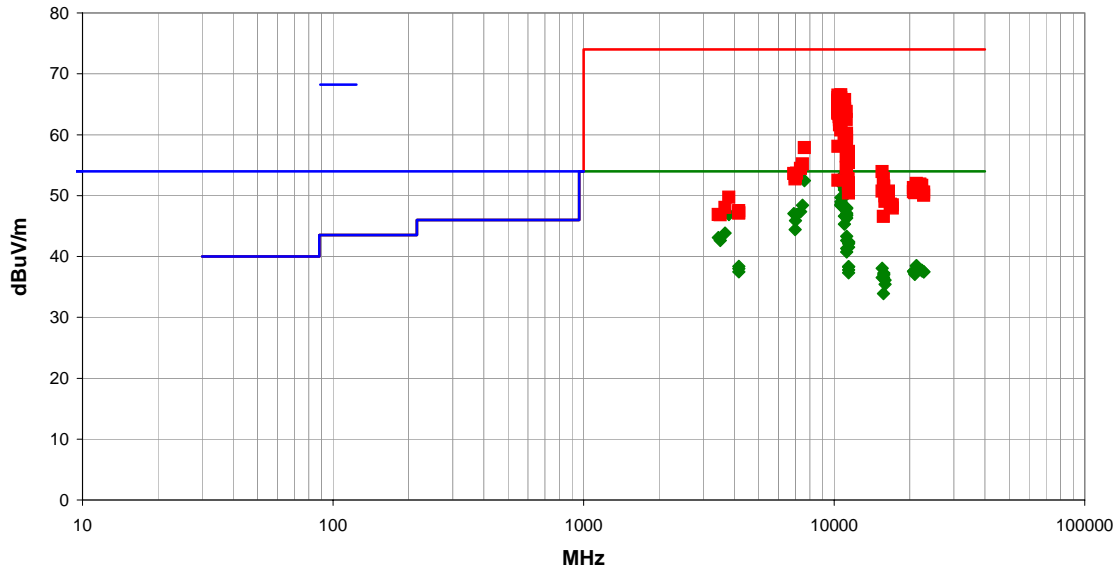
# Spurious Radiated Emissions

PSA-ESCI 2012.01.11  
PSA-ESCI Version 2011.12.21

Work Order:	DGII0046	Date:	02/13/12	<i>Trevor Buls</i>
Project:	None	Temperature:	24.41 °C	
Job Site:	MN05	Humidity:	7.88% RH	
Serial Number:	00409D5163F2	Barometric Pres.:	1014.3 mbar	
EUT: ConnectCore Wi-i.MX51				
Configuration:	1			
Customer:	Digi International			
Attendees:	None			
EUT Power:	110VAC/60Hz			
Operating Mode:	Transmitting 802.11, 6 Mbps, 36 Mbps, 54 Mbps, MCS0, MCS7 at Ch 36, 48, 52, 64 with Pwr Lvl 18, Ch 100, 120, 140 with Pwr lvl 24 (See Comments)			
Deviations:	None			
Comments:	None			

Test Specifications	Test Method
FCC 15.407:2012	ANSI C63.10:2009

Run #	1	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
10640.610	61.2	-8.2	1.2	207.0	3.0	0.0	Horz	AV	0.0	53.0	54.0	-1.0	Ch 64, MCS7, Pwr 18, EUT on Side
10639.870	61.0	-8.2	1.2	206.0	3.0	0.0	Horz	AV	0.0	52.8	54.0	-1.2	Ch 64, 54 Mbps, Pwr 18, EUT on Side
10640.140	60.7	-8.2	1.2	207.0	3.0	0.0	Horz	AV	0.0	52.5	54.0	-1.5	Ch 64, 6 Mbps, Pwr 18, EUT on Side
7600.009	39.7	12.8	1.2	244.0	3.0	0.0	Horz	AV	0.0	52.5	54.0	-1.5	Ch 140, 6 Mbps, Pwr 24, EUT on Side
10639.870	60.2	-8.2	1.2	203.0	3.0	0.0	Horz	AV	0.0	52.0	54.0	-2.0	Ch 64, 36 Mbps, Pwr 18, EUT on Side
10640.040	60.2	-8.2	1.2	203.0	3.0	0.0	Horz	AV	0.0	52.0	54.0	-2.0	Ch 64, MCS0, Pwr 18, EUT on Side
11000.050	60.3	-8.6	1.2	193.0	3.0	0.0	Horz	AV	0.0	51.7	54.0	-2.3	Ch 100, MCS0, Pwr 24, EUT on Side
11000.050	60.2	-8.6	1.1	187.0	3.0	0.0	Horz	AV	0.0	51.6	54.0	-2.4	Ch 100, 54 Mbps, Pwr 24, EUT on Side
11000.050	60.2	-8.6	1.2	194.0	3.0	0.0	Horz	AV	0.0	51.6	54.0	-2.4	Ch 100, MCS7, Pwr 24, EUT on Side
11000.050	60.1	-8.6	1.1	196.0	3.0	0.0	Horz	AV	0.0	51.5	54.0	-2.5	Ch 100, 36 Mbps, Pwr 24, EUT on Side
11000.050	59.8	-8.6	1.0	255.0	3.0	0.0	Vert	AV	0.0	51.2	54.0	-2.8	Ch 100, MCS7, Pwr 24, EUT on Side
11001.080	59.5	-8.6	1.2	187.0	3.0	0.0	Horz	AV	0.0	50.9	54.0	-3.1	Ch 100, 6 Mbps, Pwr 24, EUT on Side
10999.820	58.5	-8.6	1.0	258.0	3.0	0.0	Vert	AV	0.0	49.9	54.0	-4.1	Ch 100, MCS0, Pwr 18, EUT on Side
11000.050	58.4	-8.6	1.0	237.0	3.0	0.0	Vert	AV	0.0	49.8	54.0	-4.2	Ch 100, 36 Mbps, Pwr 24, EUT on Side
10639.970	57.9	-8.2	1.0	206.0	3.0	0.0	Vert	AV	0.0	49.7	54.0	-4.3	Ch 64, 54 Mbps, Pwr 18, EUT on Side
10640.240	57.2	-8.2	1.1	213.0	3.0	0.0	Vert	AV	0.0	49.0	54.0	-5.0	Ch 64, 6 Mbps, Pwr 18, EUT on Side
10640.440	56.8	-8.2	1.0	216.0	3.0	0.0	Vert	AV	0.0	48.6	54.0	-5.4	Ch 64, MCS7, Pwr 18, EUT on Side
10639.410	56.7	-8.2	1.2	208.0	3.0	0.0	Vert	AV	0.0	48.5	54.0	-5.5	Ch 64, MCS0, Pwr 18, EUT on Side
7466.667	35.7	12.7	1.0	239.0	3.0	0.0	Horz	AV	0.0	48.4	54.0	-5.6	Ch 120, 6 Mbps, Pwr 24, EUT on Side
10639.770	56.6	-8.2	1.0	216.0	3.0	0.0	Vert	AV	0.0	48.4	54.0	-5.6	Ch 64, 36 Mbps, Pwr 18, EUT on Side
11199.830	55.7	-7.7	1.0	209.0	3.0	0.0	Horz	AV	0.0	48.0	54.0	-6.0	Ch 120, 6 Mbps, Pwr 24, EUT on Side
11199.760	55.6	-7.7	1.1	214.0	3.0	0.0	Horz	AV	0.0	47.9	54.0	-6.1	Ch 120, MCS0, Pwr 24, EUT on Side
7333.292	35.2	12.2	1.2	250.0	3.0	0.0	Horz	AV	0.0	47.4	54.0	-6.6	Ch 100, 6 Mbps, Pwr 24, EUT on Side
11200.300	54.8	-7.7	1.1	207.0	3.0	0.0	Horz	AV	0.0	47.1	54.0	-6.9	Ch 120, 36 Mbps, Pwr 24, EUT on Side
6906.663	36.8	10.2	1.2	189.0	3.0	0.0	Horz	AV	0.0	47.0	54.0	-7.0	Ch 36, 6 Mbps, Pwr 18, EUT on Side
3800.008	45.9	1.0	1.2	36.0	3.0	0.0	Horz	AV	0.0	46.9	54.0	-7.1	Ch 140, 6 Mbps, Pwr 24, EUT on Side
7093.305	36.1	10.8	1.2	239.0	3.0	0.0	Horz	AV	0.0	46.9	54.0	-7.1	Ch 64, 6 Mbps, Pwr 18, EUT on Side

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
11199.830	54.5	-7.7	1.1	188.0	3.0	0.0	Horz	AV	0.0	46.8	54.0	-7.2	Ch 120, MCS7, Pwr 24, EUT on Side
11200.040	54.4	-7.7	1.0	254.0	3.0	0.0	Vert	AV	0.0	46.7	54.0	-7.3	Ch 120, 36 Mbps, Pwr 24, EUT on Side
11000.220	55.2	-8.6	1.3	213.0	3.0	0.0	Vert	AV	0.0	46.6	54.0	-7.4	Ch 100, 54 Mbps, Pwr 24, EUT on Side
10641.470	74.8	-8.2	1.2	203.0	3.0	0.0	Horz	PK	0.0	66.6	74.0	-7.4	Ch 64, MCS0, Pwr 18, EUT on Side
10359.910	74.7	-8.2	1.0	207.0	3.0	0.0	Vert	PK	0.0	66.5	74.0	-7.5	Ch 36, 6 Mbps, Pwr 18, EUT on Side
11199.760	54.0	-7.7	1.0	195.0	3.0	0.0	Horz	AV	0.0	46.3	54.0	-7.7	Ch 120, 54 Mbps, Pwr 24, EUT on Side
10487.100	74.2	-8.1	1.2	203.0	3.0	0.0	Horz	PK	0.0	66.1	74.0	-7.9	Ch 48, 6 Mbps, Pwr 18, EUT on Side
10361.580	74.3	-8.2	1.0	204.0	3.0	0.0	Vert	PK	0.0	66.1	74.0	-7.9	Ch 36, 36 Mbps, Pwr 18, EUT on Side
10643.110	74.3	-8.2	1.2	207.0	3.0	0.0	Horz	PK	0.0	66.1	74.0	-7.9	Ch 64, 6 Mbps, Pwr 18, EUT on Side
7013.324	35.7	10.2	1.2	188.0	3.0	0.0	Horz	AV	0.0	45.9	54.0	-8.1	Ch 52, 6 Mbps, Pwr 18, EUT on Side
10477.260	73.9	-8.1	1.0	204.0	3.0	0.0	Horz	PK	0.0	65.8	74.0	-8.2	Ch 48, MCS7, Pwr 18, EUT on Side
11004.280	74.3	-8.6	1.2	187.0	3.0	0.0	Horz	PK	0.0	65.7	74.0	-8.3	Ch 100, 6 Mbps, Pwr 24, EUT on Side
10479.360	73.8	-8.1	1.2	204.0	3.0	0.0	Horz	PK	0.0	65.7	74.0	-8.3	Ch 48, 54 Mbps, Pwr 18, EUT on Side
10478.160	73.8	-8.1	1.2	203.0	3.0	0.0	Horz	PK	0.0	65.7	74.0	-8.3	Ch 48, MCS0, Pwr 18, EUT on Side
10519.260	73.8	-8.1	1.3	205.0	3.0	0.0	Horz	PK	0.0	65.7	74.0	-8.3	Ch 52, 36 Mbps, Pwr 18, EUT on Side
10356.030	73.9	-8.2	1.0	181.0	3.0	0.0	Horz	PK	0.0	65.7	74.0	-8.3	Ch 36, 36 Mbps, Pwr 18, EUT on Side
10523.700	73.7	-8.1	1.2	206.0	3.0	0.0	Horz	PK	0.0	65.6	74.0	-8.4	Ch 52, 54 Mbps, Pwr 18, EUT on Side
10361.230	73.7	-8.2	1.1	207.0	3.0	0.0	Horz	PK	0.0	65.5	74.0	-8.5	Ch 36, 6 Mbps, Pwr 18, EUT on Side
10358.230	73.7	-8.2	1.0	203.0	3.0	0.0	Horz	PK	0.0	65.5	74.0	-8.5	Ch 36, 54 Mbps, Pwr 18, EUT on Side
10640.940	73.7	-8.2	1.2	207.0	3.0	0.0	Horz	PK	0.0	65.5	74.0	-8.5	Ch 64, MCS7, Pwr 18, EUT on Side
10641.140	73.6	-8.2	1.2	206.0	3.0	0.0	Horz	PK	0.0	65.4	74.0	-8.6	Ch 64, 54 Mbps, Pwr 18, EUT on Side
11001.220	73.9	-8.6	1.2	193.0	3.0	0.0	Horz	PK	0.0	65.3	74.0	-8.7	Ch 100, MCS0, Pwr 24, EUT on Side
11001.020	53.9	-8.6	1.2	242.0	3.0	0.0	Vert	AV	0.0	45.3	54.0	-8.7	Ch 100, 6 Mbps, Pwr 24, EUT on Side
10476.730	73.3	-8.1	1.0	209.0	3.0	0.0	Vert	PK	0.0	65.2	74.0	-8.8	Ch 48, MCS0, Pwr 18, EUT on Side
10640.840	73.4	-8.2	1.2	203.0	3.0	0.0	Horz	PK	0.0	65.2	74.0	-8.8	Ch 64, 36 Mbps, Pwr 18, EUT on Side
10515.000	73.2	-8.1	1.2	205.0	3.0	0.0	Horz	PK	0.0	65.1	74.0	-8.9	Ch 52, MCS0, Pwr 18, EUT on Side
10518.960	73.1	-8.1	1.2	204.0	3.0	0.0	Horz	PK	0.0	65.0	74.0	-9.0	Ch 52, 6 Mbps, Pwr 18, EUT on Side
10363.540	73.1	-8.2	1.0	210.0	3.0	0.0	Vert	PK	0.0	64.9	74.0	-9.1	Ch 36, 54 Mbps, Pwr 18, EUT on Side
10994.720	73.4	-8.6	1.0	255.0	3.0	0.0	Vert	PK	0.0	64.8	74.0	-9.2	Ch 100, MCS7, Pwr 24, EUT on Side
10998.920	73.4	-8.6	1.1	196.0	3.0	0.0	Horz	PK	0.0	64.8	74.0	-9.2	Ch 100, 36 Mbps, Pwr 24, EUT on Side
10359.790	73.0	-8.2	1.0	199.0	3.0	0.0	Horz	PK	0.0	64.8	74.0	-9.2	Ch 36, 6 Mbps, Pwr 18, EUT Vert
11000.120	73.3	-8.6	1.2	194.0	3.0	0.0	Horz	PK	0.0	64.7	74.0	-9.3	Ch 100, MCS7, Pwr 24, EUT on Side
10357.090	72.9	-8.2	1.2	201.0	3.0	0.0	Horz	PK	0.0	64.7	74.0	-9.3	Ch 36, MCS7, Pwr 18, EUT on Side
10477.970	72.6	-8.1	1.0	247.0	3.0	0.0	Vert	PK	0.0	64.5	74.0	-9.5	Ch 48, 54 Mbps, Pwr 18, EUT on Side
11000.650	73.0	-8.6	1.0	258.0	3.0	0.0	Vert	PK	0.0	64.4	74.0	-9.6	Ch 100, MCS0, Pwr 24, EUT on Side
6986.653	34.3	10.1	1.0	247.0	3.0	0.0	Horz	AV	0.0	44.4	54.0	-9.6	Ch 48, 6 Mbps, Pwr 18, EUT on Side
11004.080	72.8	-8.6	1.1	187.0	3.0	0.0	Horz	PK	0.0	64.2	74.0	-9.8	Ch 100, 54 Mbps, Pwr 24, EUT on Side
10477.660	72.3	-8.1	1.2	189.0	3.0	0.0	Horz	PK	0.0	64.2	74.0	-9.8	Ch 48, 36 Mbps, Pwr 18, EUT on Side
10357.240	72.4	-8.2	1.3	204.0	3.0	0.0	Vert	PK	0.0	64.2	74.0	-9.8	Ch 36, MCS0, Pwr 18, EUT on Side
10482.000	72.0	-8.1	1.0	214.0	3.0	0.0	Vert	PK	0.0	63.9	74.0	-10.1	Ch 48, 36 Mbps, Pwr 18, EUT on Side
10519.050	72.0	-8.1	1.0	252.0	3.0	0.0	Vert	PK	0.0	63.9	74.0	-10.1	Ch 52, 36 Mbps, Pwr 18, EUT on Side
10644.840	72.1	-8.2	1.1	213.0	3.0	0.0	Vert	PK	0.0	63.9	74.0	-10.1	Ch 64, 6 Mbps, Pwr 18, EUT on Side
3666.677	43.7	0.1	1.2	224.0	3.0	0.0	Horz	AV	0.0	43.8	54.0	-10.2	Ch 100, 6 Mbps, Pwr 24, EUT on Side
11197.200	71.5	-7.7	1.1	214.0	3.0	0.0	Horz	PK	0.0	63.8	74.0	-10.2	Ch 120, MCS0, Pwr 24, EUT on Side
10518.780	71.9	-8.1	1.2	212.0	3.0	0.0	Vert	PK	0.0	63.8	74.0	-10.2	Ch 52, 6 Mbps, Pwr 18, EUT on Side
10358.660	72.0	-8.2	1.2	206.0	3.0	0.0	Horz	PK	0.0	63.8	74.0	-10.2	Ch 36, MCS0, Pwr 18, EUT on Side
10365.580	71.8	-8.2	1.2	190.0	3.0	0.0	Vert	PK	0.0	63.6	74.0	-10.4	Ch 36, 6 Mbps, Pwr 18, EUT Vert
11004.380	72.1	-8.6	1.0	237.0	3.0	0.0	Vert	PK	0.0	63.5	74.0	-10.5	Ch 100, 36 Mbps, Pwr 24, EUT on Side
10363.340	71.7	-8.2	1.0	223.0	3.0	0.0	Vert	PK	0.0	63.5	74.0	-10.5	Ch 36, MCS7, Pwr 18, EUT on Side
10478.670	71.5	-8.1	1.2	198.0	3.0	0.0	Vert	PK	0.0	63.4	74.0	-10.6	Ch 48, 6 Mbps, Pwr 18, EUT on Side
11200.040	51.0	-7.7	1.0	228.0	3.0	0.0	Vert	AV	0.0	43.3	54.0	-10.7	Ch 120, MCS7, Pwr 24, EUT on Side
3453.335	43.9	-0.8	1.1	215.0	3.0	0.0	Horz	AV	0.0	43.1	54.0	-10.9	Ch 36, 6 Mbps, Pwr 18, EUT on Side
10477.670	71.1	-8.1	1.2	203.0	3.0	0.0	Vert	PK	0.0	63.0	74.0	-11.0	Ch 48, MCS7, Pwr 18, EUT on Side
10638.070	71.1	-8.2	1.0	206.0	3.0	0.0	Vert	PK	0.0	62.9	74.0	-11.1	Ch 64, 54 Mbps, Pwr 18, EUT on Side
10523.750	70.9	-8.1	1.1	209.0	3.0	0.0	Vert	PK	0.0	62.8	74.0	-11.2	Ch 52, MCS0, Pwr 18, EUT on Side
3506.680	43.3	-0.7	1.2	238.0	3.0	0.0	Horz	AV	0.0	42.6	54.0	-11.4	Ch 52, 6 Mbps, Pwr 18, EUT on Side
11200.040	50.3	-7.7	1.0	240.0	3.0	0.0	Vert	AV	0.0	42.6	54.0	-11.4	Ch 120, MCS0, Pwr 24, EUT on Side
11198.430	70.2	-7.7	1.0	209.0	3.0	0.0	Horz	PK	0.0	62.5	74.0	-11.5	Ch 120, 6 Mbps, Pwr 24, EUT on Side
10520.410	70.6	-8.1	1.2	209.0	3.0	0.0	Vert	PK	0.0	62.5	74.0	-11.5	Ch 52, 54 Mbps, Pwr 18, EUT on Side
11399.500	49.2	-6.8	1.1	212.0	3.0	0.0	Horz	AV	0.0	42.4	54.0	-11.6	Ch 140, 36 Mbps, Pwr 24, EUT on Side
10522.930	70.5	-8.1	1.2	181.0	3.0	0.0	Horz	PK	0.0	62.4	74.0	-11.6	Ch 52, MCS7, Pwr 18, EUT on Side
11400.470	49.1	-6.8	1.0	209.0	3.0	0.0	Horz	AV	0.0	42.3	54.0	-11.7	Ch 140, 6 Mbps, Pwr 24, EUT on Side
10639.670	70.5	-8.2	1.0	216.0	3.0	0.0	Vert	PK	0.0	62.3	74.0	-11.7	Ch 64, MCS7, Pwr 18, EUT on Side
10640.170	70.4	-8.2	1.2	208.0	3.0	0.0	Vert	PK	0.0	62.2	74.0	-11.8	Ch 64, MCS0, Pwr 18, EUT on Side
11400.030	48.9	-6.8	1.1	214.0	3.0	0.0	Horz	AV	0.0	42.1	54.0	-11.9	Ch 140, 54 Mbps, Pwr 24, EUT on Side
10520.180	69.7	-8.1	1.2	209.0	3.0	0.0	Vert	PK	0.0	61.6	74.0	-12.4	Ch 52, MCS7, Pwr 18, EUT on Side
11400.000	48.3	-6.8	1.0	213.0	3.0	0.0	Horz	AV	0.0	41.5	54.0	-12.5	Ch 140, MCS0, Pwr 24, EUT on Side
11200.040	49.0	-7.7	1.2	218.0	3.0	0.0	Vert	AV	0.0	41.3	54.0	-12.7	Ch 120, 54 Mbps, Pwr 24, EUT on Side
10637.740	69.0	-8.2	1.0	216.0	3.0	0.0	Vert	PK	0.0	60.8	74.0	-13.2	Ch 64, 36 Mbps, Pwr 18, EUT on Side
11200.040	48.4	-7.7	1.3	227.0	3.0	0.0	Vert	AV	0.0	40.7	54.0	-13.3	Ch 120, 6 Mbps, Pwr 24, EUT on Side
11199.930	67.9	-7.7	1.1	207.0	3.0	0.0	Horz	PK	0.0	60.2	74.0	-13.8	Ch 120, 36 Mbps, Pwr 24, EUT on Side
11001.620	68.7	-8.6	1.2	242.0	3.0	0.0	Vert	PK	0.0	60.1	74.0	-13.9	Ch 100, 6 Mbps, Pwr 24, EUT on Side
11199.100	67.3	-7.7	1.1	188.0	3.0	0.0	Horz	PK	0.0	59.6	74.0	-14.4	Ch 120, MCS7, Pwr 24, EUT on Side
11197.930	66.9	-7.7	1.0	195.0	3.0	0.0	Horz	PK	0.0	59.2	74.0	-14.8	Ch 120, 54 Mbps, Pwr 24, EUT on Side
11000.820	67.6	-8.6	1.3	213.0	3.0	0.0	Vert	PK	0.0	59.0	74.0	-15.0	Ch 100, 54 Mbps, Pwr 24, EUT on Side
11202.780	66.7	-7.7	1.0	254.0	3.0	0.0	Vert	PK	0.0	59.0	74.0	-15.0	Ch 120, 36 Mbps, Pwr 24, EUT on Side
21280.530	26.8	11.7	1.3	210.0	3.0	0.0	Horz	AV	0.0	38.5	54.0	-15.5	Ch 64, 6 Mbps, Pwr 18, EUT on Side
21279.800	26.8	11.7	1.3	210.0	3.0	0.0	Vert	AV	0.0	38.5	54.0	-15.5	Ch 64, 6 Mbps, Pwr 18, EUT on Side
4160.029	36.0	2.4	1.3	163.0	3.0	0.0	Vert	AV	0.0	38.4	54.0	-15.6	Ch 64, 6 Mbps, Pwr 18, EUT on Side
11400.290	45.1	-6.8	1.2	193.0	3.0	0.0	Vert	AV	0.0	38.3	54.0	-15.7	Ch 140, 36 Mbps, Pwr 24, EUT on Side
11399.950	45.1	-6.8	1.2	202.0	3.0	0.0	Vert	AV	0.0	38.3	54.0	-15.7	Ch 140, MCS0, Pwr 24, EUT on Side
10358.480	66.3	-8.2	1.2	99.0	3.0	0.0	Vert	PK	0.0	58.1	74.0	-15.9	Ch 36, 6 Mbps, Pwr 18, EUT Horz
15539.460	35.2	2.8	1.0	177.0	3.0	0.0	Vert	AV	0.0	38.0	54.0	-16.0	Ch 36, 6 Mbps, Pwr 18, EUT on Side
4160.062	35.6	2.4	1.2	186.0	3.0	0.0	Horz	AV	0.0	38.0	54.0	-16.0	Ch 120, 6 Mbps, Pwr 24, EUT on Side
7599.901	45.1	12.8	1.2	244.0	3.0	0.0	Horz	PK	0.0	57.9	74.0	-16.1	Ch 140, 6 Mbps, Pwr 24, EUT on Side
11400.650	44.6	-6.8	1.3	192.0	3.0	0.0	Vert	AV	0.0	37.8	54.0	-16.2	Ch 140, 6 Mbps, Pwr 24, EUT on Side
22400.010	2												

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
11399.850	44.1	-6.8	1.2	205.0	3.0	0.0	Vert	AV	0.0	37.3	54.0	-16.7	Ch 140, 54 Mbps, Pwr 24, EUT on Side
21039.710	25.7	11.6	1.2	247.0	3.0	0.0	Horz	AV	0.0	37.3	54.0	-16.7	Ch 52, 6 Mbps, Pwr 18, EUT on Side
15781.610	34.0	3.3	1.1	165.0	3.0	0.0	Vert	AV	0.0	37.3	54.0	-16.7	Ch 52, 6 Mbps, Pwr 18, EUT on Side
20959.850	25.7	11.6	1.2	242.0	3.0	0.0	Vert	AV	0.0	37.3	54.0	-16.7	Ch 48, 6 Mbps, Pwr 18, EUT on Side
11404.700	64.0	-6.8	1.0	213.0	3.0	0.0	Horz	PK	0.0	57.2	74.0	-16.8	Ch 140, MCS0, Pwr 24, EUT on Side
20959.760	25.5	11.6	1.2	218.0	3.0	0.0	Horz	AV	0.0	37.1	54.0	-16.9	Ch 48, 6 Mbps, Pwr 18, EUT on Side
15781.820	33.7	3.3	1.0	260.0	3.0	0.0	Horz	AV	0.0	37.0	54.0	-17.0	Ch 52, 6 Mbps, Pwr 18, EUT on Side
15717.650	33.4	3.2	1.0	167.0	3.0	0.0	Vert	AV	0.0	36.6	54.0	-17.4	Ch 48, 6 Mbps, Pwr 18, EUT on Side
15539.780	33.7	2.8	1.0	258.0	3.0	0.0	Horz	AV	0.0	36.5	54.0	-17.5	Ch 36, 6 Mbps, Pwr 18, EUT on Side
11195.380	64.2	-7.7	1.0	240.0	3.0	0.0	Vert	PK	0.0	56.5	74.0	-17.5	Ch 120, MCS0, Pwr 24, EUT on Side
11200.110	64.1	-7.7	1.0	228.0	3.0	0.0	Vert	PK	0.0	56.4	74.0	-17.6	Ch 120, MCS7, Pwr 24, EUT on Side
11390.630	63.0	-6.8	1.0	209.0	3.0	0.0	Horz	PK	0.0	56.2	74.0	-17.8	Ch 140, 6 Mbps, Pwr 24, EUT on Side
15957.900	32.5	3.6	1.0	165.0	3.0	0.0	Vert	AV	0.0	36.1	54.0	-17.9	Ch 64, 6 Mbps, Pwr 18, EUT on Side
11400.130	62.7	-6.8	1.1	212.0	3.0	0.0	Horz	PK	0.0	55.9	74.0	-18.1	Ch 140, 36 Mbps, Pwr 24, EUT on Side
15957.910	31.8	3.6	1.0	261.0	3.0	0.0	Horz	AV	0.0	35.4	54.0	-18.6	Ch 64, 6 Mbps, Pwr 18, EUT on Side
11400.470	62.2	-6.8	1.1	214.0	3.0	0.0	Horz	PK	0.0	55.4	74.0	-18.6	Ch 140, 54 Mbps, Pwr 24, EUT on Side
7466.525	42.5	12.7	1.0	239.0	3.0	0.0	Horz	PK	0.0	55.2	74.0	-18.8	Ch 120, 6 Mbps, Pwr 24, EUT on Side
11196.080	62.3	-7.7	1.2	218.0	3.0	0.0	Vert	PK	0.0	54.6	74.0	-19.4	Ch 120, 54 Mbps, Pwr 24, EUT on Side
11204.680	62.2	-7.7	1.3	227.0	3.0	0.0	Vert	PK	0.0	54.5	74.0	-19.5	Ch 120, 6 Mbps, Pwr 18, EUT on Side
7333.484	42.3	12.2	1.2	250.0	3.0	0.0	Horz	PK	0.0	54.5	74.0	-19.5	Ch 100, 6 Mbps, Pwr 24, EUT on Side
15541.880	51.1	2.8	1.0	177.0	3.0	0.0	Vert	PK	0.0	53.9	74.0	-20.1	Ch 36, 6 Mbps, Pwr 18, EUT on Side
15722.170	30.7	3.2	1.1	233.0	3.0	0.0	Horz	AV	0.0	33.9	54.0	-20.1	Ch 48, 6 Mbps, Pwr 18, EUT on Side
7093.222	42.9	10.8	1.2	239.0	3.0	0.0	Horz	PK	0.0	53.7	74.0	-20.3	Ch 64, 6 Mbps, Pwr 18, EUT on Side
6906.663	43.4	10.2	1.2	189.0	3.0	0.0	Horz	PK	0.0	53.6	74.0	-20.4	Ch 36, 6 Mbps, Pwr 18, EUT on Side
7013.107	42.9	10.2	1.2	188.0	3.0	0.0	Horz	PK	0.0	53.1	74.0	-20.9	Ch 52, 6 Mbps, Pwr 18, EUT on Side
15720.100	49.6	3.2	1.0	167.0	3.0	0.0	Vert	PK	0.0	52.8	74.0	-21.2	Ch 48, 6 Mbps, Pwr 18, EUT on Side
11393.020	59.6	-6.8	1.2	202.0	3.0	0.0	Vert	PK	0.0	52.8	74.0	-21.2	Ch 140, MCS0, Pwr 24, EUT on Side
6986.686	42.6	10.1	1.0	247.0	3.0	0.0	Horz	PK	0.0	52.7	74.0	-21.3	Ch 48, 6 Mbps, Pwr 18, EUT on Side
10366.590	60.7	-8.2	1.1	22.0	3.0	0.0	Horz	PK	0.0	52.5	74.0	-21.5	Ch 36, 6 Mbps, Pwr 18, EUT Horz
11401.590	58.9	-6.8	1.3	192.0	3.0	0.0	Vert	PK	0.0	52.1	74.0	-21.9	Ch 140, 6 Mbps, Pwr 24, EUT on Side
21281.600	40.3	11.7	1.3	210.0	3.0	0.0	Vert	PK	0.0	52.0	74.0	-22.0	Ch 64, 6 Mbps, Pwr 18, EUT on Side
22001.100	39.9	12.0	1.2	213.0	3.0	0.0	Vert	PK	0.0	51.9	74.0	-22.1	Ch 100, 6 Mbps, Pwr 24, EUT on Side
22001.750	39.8	12.0	1.2	213.0	3.0	0.0	Horz	PK	0.0	51.8	74.0	-22.2	Ch 100, 6 Mbps, Pwr 24, EUT on Side
11399.820	58.5	-6.8	1.2	193.0	3.0	0.0	Vert	PK	0.0	51.7	74.0	-22.3	Ch 140, 36 Mbps, Pwr 24, EUT on Side
22399.850	39.6	12.1	1.2	248.0	3.0	0.0	Vert	PK	0.0	51.7	74.0	-22.3	Ch 120, 6 Mbps, Pwr 24, EUT on Side
15777.880	48.3	3.3	1.0	260.0	3.0	0.0	Horz	PK	0.0	51.6	74.0	-22.4	Ch 52, 6 Mbps, Pwr 18, EUT on Side
15782.090	48.2	3.3	1.1	165.0	3.0	0.0	Vert	PK	0.0	51.5	74.0	-22.5	Ch 52, 6 Mbps, Pwr 18, EUT on Side
20719.290	39.8	11.5	1.3	0.0	3.0	0.0	Horz	PK	0.0	51.3	74.0	-22.7	Ch 36, 6 Mbps, Pwr 18, EUT on Side
21280.320	39.3	11.7	1.3	210.0	3.0	0.0	Horz	PK	0.0	51.0	74.0	-23.0	Ch 64, 6 Mbps, Pwr 18, EUT on Side
20959.570	39.3	11.6	1.2	242.0	3.0	0.0	Vert	PK	0.0	50.9	74.0	-23.1	Ch 48, 6 Mbps, Pwr 18, EUT on Side
15540.080	47.9	2.8	1.0	258.0	3.0	0.0	Horz	PK	0.0	50.7	74.0	-23.3	Ch 36, 6 Mbps, Pwr 18, EUT on Side
16499.200	47.8	2.9	1.1	258.0	3.0	0.0	Horz	PK	0.0	50.7	74.0	-23.3	Ch 100, 6 Mbps, Pwr 24, EUT on Side
21039.220	39.1	11.6	1.2	247.0	3.0	0.0	Vert	PK	0.0	50.7	74.0	-23.3	Ch 52, 6 Mbps, Pwr 18, EUT on Side
21039.210	39.1	11.6	1.2	247.0	3.0	0.0	Horz	PK	0.0	50.7	74.0	-23.3	Ch 52, 6 Mbps, Pwr 18, EUT on Side
22400.490	38.6	12.1	1.2	248.0	3.0	0.0	Horz	PK	0.0	50.7	74.0	-23.3	Ch 120, 6 Mbps, Pwr 24, EUT on Side
20719.460	39.1	11.5	1.3	0.0	3.0	0.0	Vert	PK	0.0	50.6	74.0	-23.4	Ch 36, 6 Mbps, Pwr 18, EUT on Side
22799.900	38.4	12.2	1.2	259.0	3.0	0.0	Horz	PK	0.0	50.6	74.0	-23.4	Ch 140, 6 Mbps, Pwr 24, EUT on Side
20961.730	38.9	11.6	1.2	218.0	3.0	0.0	Horz	PK	0.0	50.5	74.0	-23.5	Ch 48, 6 Mbps, Pwr 18, EUT on Side
11400.190	57.2	-6.8	1.2	205.0	3.0	0.0	Vert	PK	0.0	50.4	74.0	-23.6	Ch 140, 54 Mbps, Pwr 24, EUT on Side
22799.250	37.9	12.2	1.2	259.0	3.0	0.0	Vert	PK	0.0	50.1	74.0	-23.9	Ch 140, 6 Mbps, Pwr 24, EUT on Side
15958.220	46.3	3.6	1.0	165.0	3.0	0.0	Vert	PK	0.0	49.9	74.0	-24.1	Ch 64, 6 Mbps, Pwr 18, EUT on Side
3799.908	48.7	1.0	1.2	36.0	3.0	0.0	Horz	PK	0.0	49.7	74.0	-24.3	Ch 140, 6 Mbps, Pwr 24, EUT on Side
16501.610	46.3	2.9	1.1	241.0	3.0	0.0	Vert	PK	0.0	49.2	74.0	-24.8	Ch 100, 6 Mbps, Pwr 24, EUT on Side
15960.210	45.4	3.6	1.0	261.0	3.0	0.0	Horz	PK	0.0	49.0	74.0	-25.0	Ch 64, 6 Mbps, Pwr 18, EUT on Side
16798.770	45.1	3.5	1.0	238.0	3.0	0.0	Vert	PK	0.0	48.6	74.0	-25.4	Ch 120, 6 Mbps, Pwr 24, EUT on Side
17100.680	44.7	3.8	3.8	115.0	3.0	0.0	Vert	PK	0.0	48.5	74.0	-25.5	Ch 140, 6 Mbps, Pwr 24, EUT on Side
16802.470	44.9	3.5	1.0	138.0	3.0	0.0	Horz	PK	0.0	48.4	74.0	-25.6	Ch 120, 6 Mbps, Pwr 24, EUT on Side
3666.719	47.9	0.1	1.2	224.0	3.0	0.0	Horz	PK	0.0	48.0	74.0	-26.0	Ch 100, 6 Mbps, Pwr 24, EUT on Side
17100.770	44.2	3.8	1.0	141.0	3.0	0.0	Horz	PK	0.0	48.0	74.0	-26.0	Ch 140, 6 Mbps, Pwr 24, EUT on Side
4160.029	45.1	2.4	1.2	186.0	3.0	0.0	Horz	PK	0.0	47.5	74.0	-26.5	Ch 120, 6 Mbps, Pwr 24, EUT on Side
4160.037	44.8	2.4	1.3	163.0	3.0	0.0	Vert	PK	0.0	47.2	74.0	-26.8	Ch 64, 6 Mbps, Pwr 18, EUT on Side
4159.779	44.7	2.4	1.2	191.0	3.0	0.0	Horz	PK	0.0	47.1	74.0	-26.9	Ch 48, 6 Mbps, Pwr 18, EUT on Side
3453.310	47.7	-0.8	1.1	215.0	3.0	0.0	Horz	PK	0.0	46.9	74.0	-27.1	Ch 36, 6 Mbps, Pwr 18, EUT on Side
3506.747	47.5	-0.7	1.2	238.0	3.0	0.0	Horz	PK	0.0	46.8	74.0	-27.2	Ch 52, 6 Mbps, Pwr 18, EUT on Side
15720.580	43.4	3.2	1.1	233.0	3.0	0.0	Horz	PK	0.0	46.6	74.0	-27.4	Ch 48, 6 Mbps, Pwr 18, EUT on Side

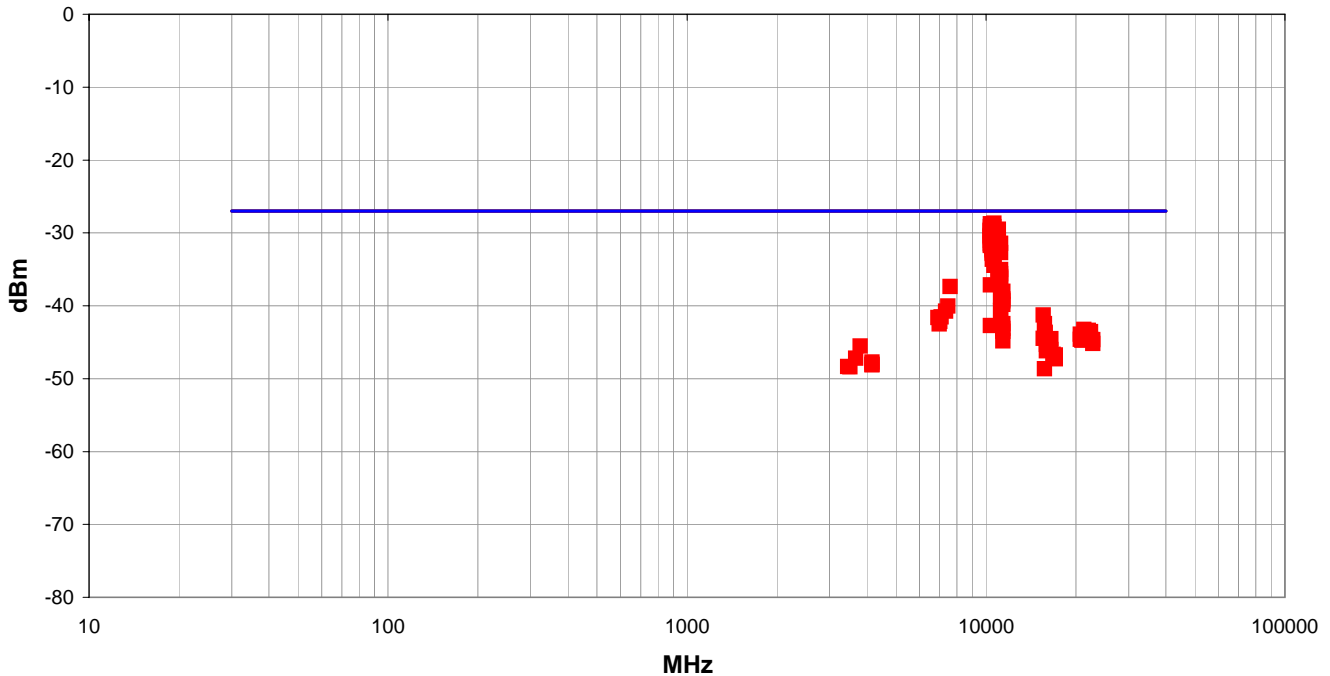


## Spurious Radiated Emissions

<b>Work Order:</b>	DGII0046	<b>Date:</b>	02/13/12	<i>Trevor Buls</i>
<b>Project:</b>	None	<b>Temperature:</b>	24.41 °C	
<b>Job Site:</b>	MN05	<b>Humidity:</b>	7.88% RH	
<b>Serial Number:</b>	00409D5163F2	<b>Barometric Pres.:</b>	1014.3 mbar	
<b>EUT:</b>	ConnectCore Wi-i.MX51			
<b>Configuration:</b>	1			
<b>Customer:</b>	Digi International			
<b>Attendees:</b>	None			
<b>EUT Power:</b>	110VAC/60Hz			
<b>Operating Mode:</b>	Transmitting 802.11, 6 Mbps, 36 Mbps, 54 Mbps, MCS0, MCS7 at Ch 36, 48, 52, 64 with Pwr Lvl 18, Ch 100, 120, 140 with Pwr Lvl 24 (See Comments)			
<b>Deviations:</b>	None			
<b>Comments:</b>	None			

<b>Test Specifications</b>	<b>Test Method</b>
FCC 15.407:2012	ANSI C63.10:2009

<b>Run #</b>	1	<b>Test Distance (m)</b>	3	<b>Antenna Height(s)</b>	1-4m	<b>Results</b>	Pass
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Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
10641.470	1.2	203.0	Horz	PK	1.36E-06	-28.7	-27.0	-1.7	Ch 64, MCS0, Pwr 18, EUT on Side
10359.910	1.0	207.0	Vert	PK	1.33E-06	-28.7	-27.0	-1.7	Ch 36, 6 Mbps, Pwr 18, EUT on Side
10487.100	1.2	203.0	Horz	PK	1.22E-06	-29.1	-27.0	-2.1	Ch 48, 6 Mbps, Pwr 18, EUT on Side
10361.580	1.0	204.0	Vert	PK	1.22E-06	-29.1	-27.0	-2.1	Ch 36, 36 Mbps, Pwr 18, EUT on Side
10643.110	1.2	207.0	Horz	PK	1.21E-06	-29.2	-27.0	-2.2	Ch 64, 6 Mbps, Pwr 18, EUT on Side
10477.260	1.0	204.0	Horz	PK	1.14E-06	-29.4	-27.0	-2.4	Ch 48, MCS7, Pwr 18, EUT on Side
11004.280	1.2	187.0	Horz	PK	1.13E-06	-29.5	-27.0	-2.5	Ch 100, 6 Mbps, Pwr 24, EUT on Side
10479.360	1.2	204.0	Horz	PK	1.11E-06	-29.5	-27.0	-2.5	Ch 48, 54 Mbps, Pwr 18, EUT on Side
10478.160	1.2	203.0	Horz	PK	1.11E-06	-29.5	-27.0	-2.5	Ch 48, MCS0, Pwr 18, EUT on Side
10519.260	1.3	205.0	Horz	PK	1.11E-06	-29.5	-27.0	-2.5	Ch 52, 36 Mbps, Pwr 18, EUT on Side