

NORTHWEST EMC

Etherios Design Solutions

ConnectCore i.MX6 WiFi/Bluetooth
FCC 15.247:2015
FCC 15.207:2015

Report # ETHE0018.4



NVLAP Lab Code: 200881-0

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. This Report may only be duplicated in its entirety

CERTIFICATE OF TEST

Last Date of Test: January 26, 2015
Etherios Design Solutions
Model: ConnectCore i.MX6 WiFi/Bluetooth

Radio Equipment Testing

Standards

Specification	Method
FCC 15.247:2015	ANSI C63.10:2009, DA 00-705:2000 (FHSS)
FCC 15.207:2015	ANSI C63.10:2009

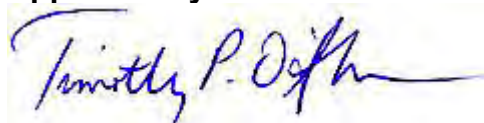
Results

Method Clause	Test Description	Applied	Results	Comments
6.2	AC Powerline Conducted Emissions	Yes	Pass	
6.5, 6.6	Spurious Radiated Emissions	Yes	Pass	
6.7	Spurious Conducted Emissions	Yes	Pass	
6.9.1	Occupied Bandwidth	Yes	Pass	
6.10.2	Output Power	Yes	Pass	
7.7.2	Channel Separation	Yes	Pass	
7.7.3	Number of Hopping Channels	Yes	Pass	
7.7.4	Dwell Time	Yes	Pass	
7.5	Duty Cycle	Yes	Pass	
7.7.9	Band Edge Compliance	Yes	Pass	
7.7.9	Band Edge Compliance - Hopping Mode	Yes	Pass	

Deviations From Test Standards

None

Approved By:



Tim O'Shea, Operations Manager

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. 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		

ACCREDITATIONS AND AUTHORIZATIONS

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

Canada

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

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.

Australia/New Zealand

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

Korea

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

Japan

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

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.

Singapore

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

Israel

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

Hong Kong

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

Vietnam

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

SCOPE

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

<http://www.nwemc.com/accreditations/>

MEASUREMENT UNCERTAINTY

Measurement Uncertainty

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

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 (K=2) for each test is on each data sheet. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-2 as applicable), and are available upon request.

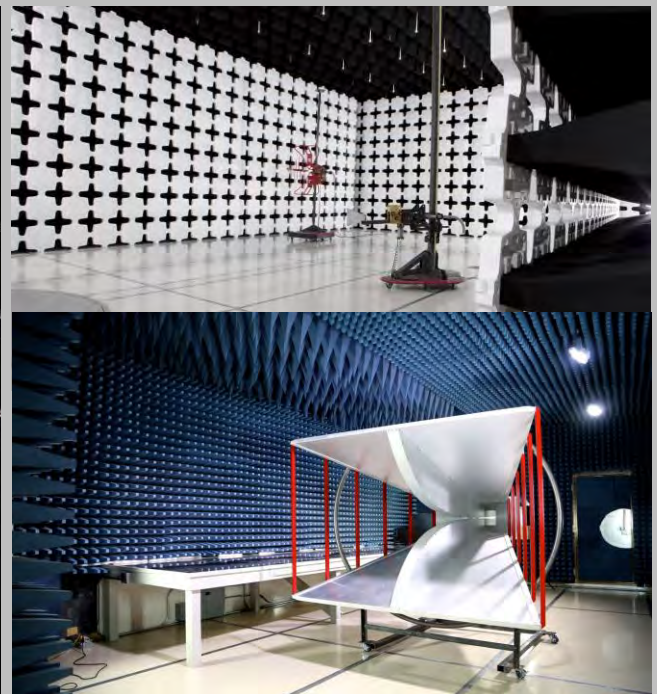
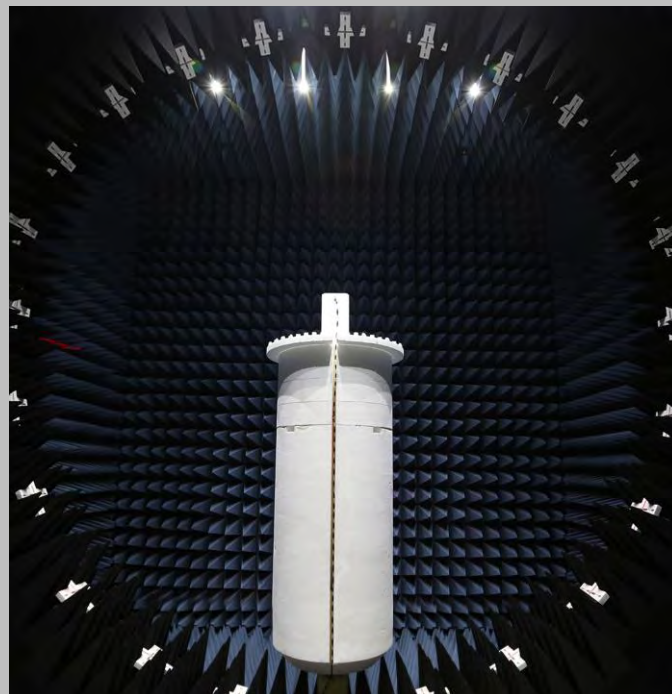
The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

Test	+ MU	- MU
Frequency Accuracy (Hz)	0.0007%	-0.0007%
Amplitude Accuracy (dB)	1.2 dB	-1.2 dB
Conducted Power (dB)	0.3 dB	-0.3 dB
Radiated Power via Substitution (dB)	0.7 dB	-0.7 dB
Temperature (degrees C)	0.7°C	-0.7°C
Humidity (% RH)	2.5% RH	-2.5% RH
Voltage (AC)	1.0%	-1.0%
Voltage (DC)	0.7%	-0.7%
Field Strength (dB)	5.2 dB	-5.2 dB
AC Powerline Conducted Emissions (dB)	2.9 dB	-2.9 dB

FACILITIES



California Labs OC01-13 41 Tesla Irvine, CA 92618 (949) 861-8918	Minnesota Labs MN01-08, MN10 9349 W Broadway Ave. Brooklyn Park, MN 55445 (612)-638-5136	New York Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 685-0796	Oregon Labs EV01-12 22975 NW Evergreen Pkwy Hillsboro, OR 97124 (503) 844-4066	Texas Labs TX01-09 3801 E Plano Pkwy Plano, TX 75074 (469) 304-5255	Washington Labs NC01-05 19201 120 th Ave NE Bothell, WA 9801 (425)984-6600
NVLAP					
NVLAP Lab Code: 200676-0	NVLAP Lab Code: 200881-0	NVLAP Lab Code: 200761-0	NVLAP Lab Code: 200630-0	NVLAP Lab Code:201049-0	NVLAP Lab Code: 200629-0
Industry Canada					
2834B-1, 2834B-3	2834E-1	N/A	2834D-1, 2834D-2	2834G-1	2834F-1
BSMI					
SL2-IN-E-1154R	SL2-IN-E-1152R	N/A	SL2-IN-E-1017	SL2-IN-E-1158R	SL2-IN-E-1153R
VCCI					
A-0029	A-0109	N/A	A-0108	A-0201	A-0110



PRODUCT DESCRIPTION

Client and Equipment Under Test (EUT) Information

Company Name:	Digi International
Address:	11001 Bren Road East
City, State, Zip:	Minnetonka, MN 55343
Test Requested By:	Collin LaFave
Model:	ConnectCore i.MX6 WiFi/Bluetooth
First Date of Test:	December 08, 2014
Last Date of Test:	January 26, 2015
Receipt Date of Samples:	December 04, 2014
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT:
The EUT is an 802.11abgn SISO and Bluetooth 4.0 radio module with a Quad core i.MX6 processor. The device operates as a Wi-Fi client device and has no radar detection and no ad-hoc capability.
Testing Objective:
To demonstrate compliance of the Bluetooth BR/EDR FHSS radio to FCC 15.247 requirements.

CONFIGURATIONS

Configuration ETHE0018- 1

Software/Firmware Running during test					
Description				Version	
iPerf via command prompt				Unknown	

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
ConnectCore i.MX6 Wi-Fi/Bluetooth	Etherios Design Solutions	5001475-02	00409D 7C03D2

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Laptop Supply	Lenovo	92P1160	None
Laptop	Lenovo	T400	L3-A9984 08/09
DC Power Supply	EZ	GP-4303D	TPY

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Mains Cable	No	1.8m	No	AC Mains	Laptop Supply
USB to Serial	Yes	2.2m	No	Laptop	ConnectCore i.MX6 Wi-Fi/Bluetooth
AC Mains Cable	No	1.80m	No	AC Mains	Power Supply
DC Power	No	1.80m	Yes	Laptop Supply	Laptop
DC Power	No	1.20m	No	Power Supply	ConnectCore i.MX6 Wi-Fi/Bluetooth

CONFIGURATIONS

Configuration ETHE0018- 2

Software/Firmware Running during test			
Description	Version		
HyperTerminal	5.1.2600.0		

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
AF Dual Band Antenna	Antenna Factor	ANT-DB1-RAF-XXX	None
ConnectCore i.MX6 Wi-Fi/Bluetooth	Etherios Design Solutions	50001475-02	00409D 7C0392

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Laptop Supply	Lenovo	42T5276	None
Laptop	Lenovo	2738-CTO	L3-C2189 09/02
DC Power Supply	Sorensen	XEL 30-3D	TQE

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Mains Cable	No	1.8m	No	AC Mains	Laptop Supply
USB to Serial	Yes	2.2m	No	Laptop	ConnectCore i.MX6 Wi-Fi/Bluetooth
AC Mains Cable	No	1.80m	No	AC Mains	Power Supply
DC Power	No	1.80m	Yes	Laptop Supply	Laptop
DC Power	No	1.20m	No	Power Supply	ConnectCore i.MX6 Wi-Fi/Bluetooth

CONFIGURATIONS

Configuration ETHE0018- 3

Software/Firmware Running during test	
Description	Version
HyperTerminal	5.1.2600.0

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Ethertronics Dipole Antenna	Ethertronics	1001932	None
ConnectCore i.MX6 Wi-Fi/Bluetooth	Etherios Design Solutions	50001475-02	00409D 7C0392

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Laptop Supply	Lenovo	42T5276	None
Laptop	Lenovo	2738-CTO	L3-C2189 09/02
DC Power Supply	Sorensen	XEL 30-3D	TQE

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Mains Cable	No	1.8m	No	AC Mains	Laptop Supply
USB to Serial	Yes	2.2m	No	Laptop	ConnectCore i.MX6 Wi-Fi/Bluetooth
AC Mains Cable	No	1.80m	No	AC Mains	Power Supply
DC Power	No	1.80m	Yes	Laptop Supply	Laptop
DC Power	No	1.20m	No	Power Supply	ConnectCore i.MX6 Wi-Fi/Bluetooth

CONFIGURATIONS

Configuration ETHE0018- 4

Software/Firmware Running during test					
Description				Version	
HyperTerminal				5.1.2600.0	

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Yageo Omni Antenna	Yageo	ANTX100P001B24003	None
ConnectCore i.MX6 Wi-Fi/Bluetooth	Etherios Design Solutions	50001475-02	00409D 7C0392

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Laptop Supply	Lenovo	42T5276	None
Laptop	Lenovo	2738-CTO	L3-C2189 09/02
DC Power Supply	Sorensen	XEL 30-3D	TQE

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Mains Cable	No	1.8m	No	AC Mains	Laptop Supply
USB to Serial	Yes	2.2m	No	Laptop	ConnectCore i.MX6 Wi-Fi/Bluetooth
AC Mains Cable	No	1.80m	No	AC Mains	Power Supply
DC Power	No	1.80m	Yes	Laptop Supply	Laptop
DC Power	No	1.20m	No	Power Supply	ConnectCore i.MX6 Wi-Fi/Bluetooth

CONFIGURATIONS

Configuration ETHE0018- 5

Software/Firmware Running during test					
Description				Version	
iPerf via command prompt				Unknown	

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
ConnectCore i.MX6 Wi-Fi/Bluetooth	Etherios Design Solutions	5001475-02	00409D 7C03D9

Remote Equipment Outside of Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Laptop Supply	Lenovo	92P1160	None
Laptop	Lenovo	T400	L3-A9984 08/09
DC Power Supply	EZ	GP-4303D	TPY

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Mains Cable	No	1.8m	No	AC Mains	Laptop Supply
USB to Serial	Yes	2.2m	No	Laptop	ConnectCore i.MX6 Wi-Fi/Bluetooth
AC Mains Cable	No	1.80m	No	AC Mains	Power Supply
DC Power	No	1.80m	Yes	Laptop Supply	Laptop
DC Power	No	1.20m	No	Power Supply	ConnectCore i.MX6 Wi-Fi/Bluetooth

MODIFICATIONS

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	12/8/2014	Duty Cycle	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	12/8/2014	Occupied Bandwidth	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.
3	12/8/2014	Output Power	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.
4	12/8/2014	Spurious Conducted 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.
5	12/8/2014	Band Edge Compliance	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.
6	12/8/2014	Band edge Compliance-Hopping Mode	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.
7	12/8/2014	Channel Separation	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.
8	12/8/2014	Number of Hopping Channels	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.
9	12/8/2014	Dwell Time	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.
10	1/9/2015	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.
11	1/26/2015	AC Powerline Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

AC POWERLINE CONDUCTED EMISSIONS

TEST DESCRIPTION

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
LISN	Solar Electronics	9252-50-R-24-BNC	LIY	05/15/2014	12 mo
Attenuator 20dB, BNC	Fairview Microwave	SA01B-20	AQP	07/22/2014	12 mo
Receiver	Rohde & Schwarz	ESR7	ARI	05/06/2014	12 mo
High Pass Filter	TTE	H97-100K-50-720B	HGN	05/23/2014	12 mo
MN03 Cables	ESM Cable Corp.	Conducted Cables	MNC	11/20/2014	12 mo

MEASUREMENT UNCERTAINTY

Description		
Expanded k=2	2.4 dB	-2.4 dB

CONFIGURATIONS INVESTIGATED

ETHE0018-5

MODES INVESTIGATED

Transmitting EDR DH5 High Channel 2480 MHz
Transmitting EDR DH5 Low Channel 2402 MHz
Transmitting EDR DH5 Mid Channel 2440 MHz

AC POWERLINE CONDUCTED EMISSIONS

EUT:	ConnectCore i.MX6 WiFi/Bluetooth	Work Order:	ETHE0018
Serial Number:	00409D 7C03CD	Date:	01/26/2015
Customer:	Etherios Design Solutions	Temperature:	18.1°C
Attendees:	None	Relative Humidity:	48.5%
Customer Project:	None	Bar. Pressure:	1007.4 mb
Tested By:	Brandon Hobbs	Job Site:	MN03
Power:	5VDC	Configuration:	ETHE0018-5

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2015	ANSI C63.10:2009

TEST PARAMETERS

Run #:	4	Line:	Negative Lead	Ext. Attenuation (dB):	20
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COMMENTS

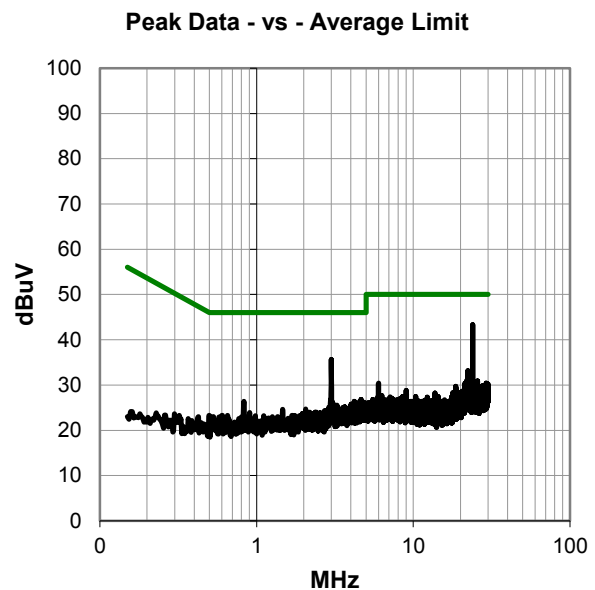
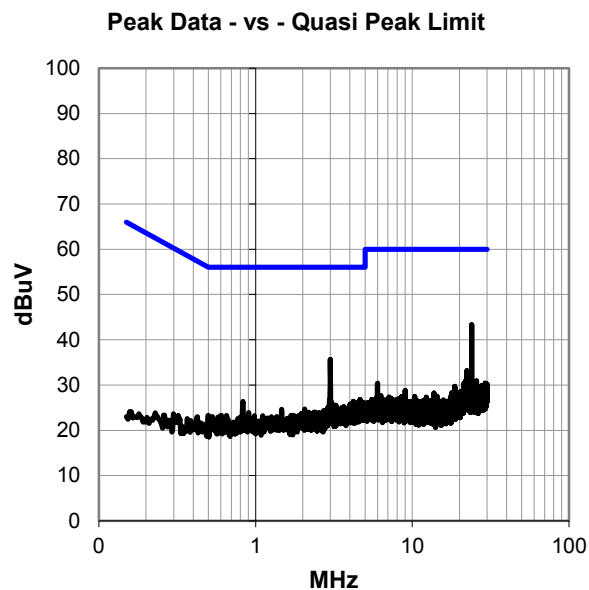
None

EUT OPERATING MODES

Transmitting EDR DH5 Low Channel 2402 MHz

DEVIATIONS FROM TEST STANDARD

None



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #4

Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
23.997	21.5	21.8	43.3	60.0	-16.7
2.997	15.3	20.3	35.6	56.0	-20.4
22.378	11.5	21.7	33.2	60.0	-26.8
22.188	10.1	21.7	31.8	60.0	-28.2
22.367	9.6	21.7	31.3	60.0	-28.7
22.046	9.4	21.7	31.1	60.0	-28.9
22.136	9.3	21.7	31.0	60.0	-29.0
25.773	8.9	22.0	30.9	60.0	-29.1
2.967	6.5	20.3	26.8	56.0	-29.2
4.649	6.4	20.4	26.8	56.0	-29.2
22.471	9.0	21.7	30.7	60.0	-29.3
22.609	8.8	21.7	30.5	60.0	-29.5
22.303	8.8	21.7	30.5	60.0	-29.5
25.355	8.5	22.0	30.5	60.0	-29.5
21.979	8.8	21.7	30.5	60.0	-29.5
6.000	9.9	20.5	30.4	60.0	-29.6
29.217	8.0	22.4	30.4	60.0	-29.6
22.568	8.7	21.7	30.4	60.0	-29.6
0.829	6.2	20.2	26.4	56.0	-29.6
21.423	8.8	21.6	30.4	60.0	-29.6
4.564	6.0	20.4	26.4	56.0	-29.6
4.209	6.0	20.4	26.4	56.0	-29.6
29.996	7.7	22.5	30.2	60.0	-29.8
29.858	7.7	22.5	30.2	60.0	-29.8
4.881	5.7	20.4	26.1	56.0	-29.9
24.098	8.3	21.8	30.1	60.0	-29.9

Peak Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
23.997	21.5	21.8	43.3	50.0	-6.7
2.997	15.3	20.3	35.6	46.0	-10.4
22.378	11.5	21.7	33.2	50.0	-16.8
22.188	10.1	21.7	31.8	50.0	-18.2
22.367	9.6	21.7	31.3	50.0	-18.7
22.046	9.4	21.7	31.1	50.0	-18.9
22.136	9.3	21.7	31.0	50.0	-19.0
25.773	8.9	22.0	30.9	50.0	-19.1
2.967	6.5	20.3	26.8	46.0	-19.2
4.649	6.4	20.4	26.8	46.0	-19.2
22.471	9.0	21.7	30.7	50.0	-19.3
22.609	8.8	21.7	30.5	50.0	-19.5
22.303	8.8	21.7	30.5	50.0	-19.5
25.355	8.5	22.0	30.5	50.0	-19.5
21.979	8.8	21.7	30.5	50.0	-19.5
6.000	9.9	20.5	30.4	50.0	-19.6
29.217	8.0	22.4	30.4	50.0	-19.6
22.568	8.7	21.7	30.4	50.0	-19.6
0.829	6.2	20.2	26.4	46.0	-19.6
21.423	8.8	21.6	30.4	50.0	-19.6
4.564	6.0	20.4	26.4	46.0	-19.6
4.209	6.0	20.4	26.4	46.0	-19.6
29.996	7.7	22.5	30.2	50.0	-19.8
29.858	7.7	22.5	30.2	50.0	-19.8
4.881	5.7	20.4	26.1	46.0	-19.9
24.098	8.3	21.8	30.1	50.0	-19.9

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS

EUT:	ConnectCore i.MX6 WiFi/Bluetooth	Work Order:	ETHE0018
Serial Number:	00409D 7C03CD	Date:	01/26/2015
Customer:	Etherios Design Solutions	Temperature:	18.1°C
Attendees:	None	Relative Humidity:	48.5%
Customer Project:	None	Bar. Pressure:	1007.4 mb
Tested By:	Brandon Hobbs	Job Site:	MN03
Power:	5VDC	Configuration:	ETHE0018-5

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2015	ANSI C63.10:2009

TEST PARAMETERS

Run #:	5	Line:	Positive Lead	Ext. Attenuation (dB):	20
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COMMENTS

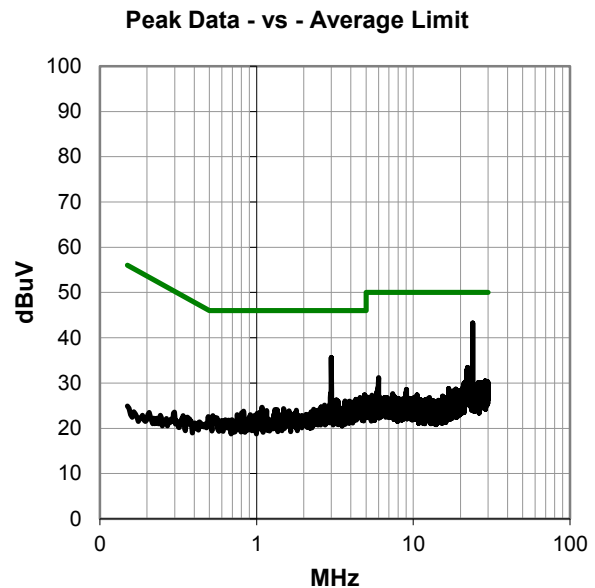
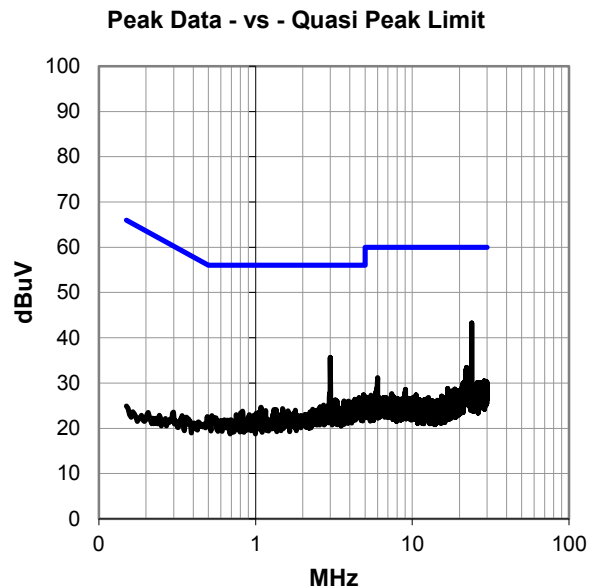
None

EUT OPERATING MODES

Transmitting EDR DH5 Low Channel 2402 MHz

DEVIATIONS FROM TEST STANDARD

None



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #5

Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
23.997	21.4	21.8	43.2	60.0	-16.8
3.000	15.3	20.3	35.6	56.0	-20.4
22.225	11.8	21.7	33.5	60.0	-26.5
22.356	11.5	21.7	33.2	60.0	-26.8
21.975	11.4	21.7	33.1	60.0	-26.9
22.132	11.3	21.7	33.0	60.0	-27.0
21.893	11.1	21.6	32.7	60.0	-27.3
22.098	10.9	21.7	32.6	60.0	-27.4
21.945	10.8	21.7	32.5	60.0	-27.6
22.441	10.6	21.7	32.3	60.0	-27.7
22.307	10.6	21.7	32.3	60.0	-27.7
21.919	10.4	21.6	32.0	60.0	-28.0
22.035	10.3	21.7	32.0	60.0	-28.0
22.490	10.2	21.7	31.9	60.0	-28.1
2.967	7.4	20.3	27.7	56.0	-28.3
4.888	6.9	20.4	27.3	56.0	-28.7
6.004	10.7	20.5	31.2	60.0	-28.8
22.818	9.4	21.7	31.1	60.0	-28.9
4.586	6.4	20.4	26.8	56.0	-29.2
21.807	9.0	21.6	30.6	60.0	-29.4
4.959	6.1	20.5	26.6	56.0	-29.4
4.631	6.1	20.4	26.5	56.0	-29.5
28.784	8.1	22.4	30.5	60.0	-29.5
3.026	6.1	20.3	26.4	56.0	-29.6
4.705	6.0	20.4	26.4	56.0	-29.6
4.575	6.0	20.4	26.4	56.0	-29.6

Peak Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
23.997	21.4	21.8	43.2	50.0	-6.8
3.000	15.3	20.3	35.6	46.0	-10.4
22.225	11.8	21.7	33.5	50.0	-16.5
22.356	11.5	21.7	33.2	50.0	-16.8
21.975	11.4	21.7	33.1	50.0	-16.9
22.132	11.3	21.7	33.0	50.0	-17.0
21.893	11.1	21.6	32.7	50.0	-17.3
22.098	10.9	21.7	32.6	50.0	-17.4
21.945	10.8	21.7	32.5	50.0	-17.6
22.441	10.6	21.7	32.3	50.0	-17.7
22.307	10.6	21.7	32.3	50.0	-17.7
21.919	10.4	21.6	32.0	50.0	-18.0
22.035	10.3	21.7	32.0	50.0	-18.0
22.490	10.2	21.7	31.9	50.0	-18.1
2.967	7.4	20.3	27.7	46.0	-18.3
4.888	6.9	20.4	27.3	46.0	-18.7
6.004	10.7	20.5	31.2	50.0	-18.8
22.818	9.4	21.7	31.1	50.0	-18.9
4.586	6.4	20.4	26.8	46.0	-19.2
21.807	9.0	21.6	30.6	50.0	-19.4
4.959	6.1	20.5	26.6	46.0	-19.4
4.631	6.1	20.4	26.5	46.0	-19.5
28.784	8.1	22.4	30.5	50.0	-19.5
3.026	6.1	20.3	26.4	46.0	-19.6
4.705	6.0	20.4	26.4	46.0	-19.6
4.575	6.0	20.4	26.4	46.0	-19.6

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS

EUT:	ConnectCore i.MX6 WiFi/Bluetooth	Work Order:	ETHE0018
Serial Number:	00409D 7C03CD	Date:	01/26/2015
Customer:	Etherios Design Solutions	Temperature:	18.1°C
Attendees:	None	Relative Humidity:	48.5%
Customer Project:	None	Bar. Pressure:	1007.4 mb
Tested By:	Brandon Hobbs	Job Site:	MN03
Power:	5VDC	Configuration:	ETHE0018-5

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2015	ANSI C63.10:2009

TEST PARAMETERS

Run #:	6	Line:	Positive Lead	Ext. Attenuation (dB):	20
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COMMENTS

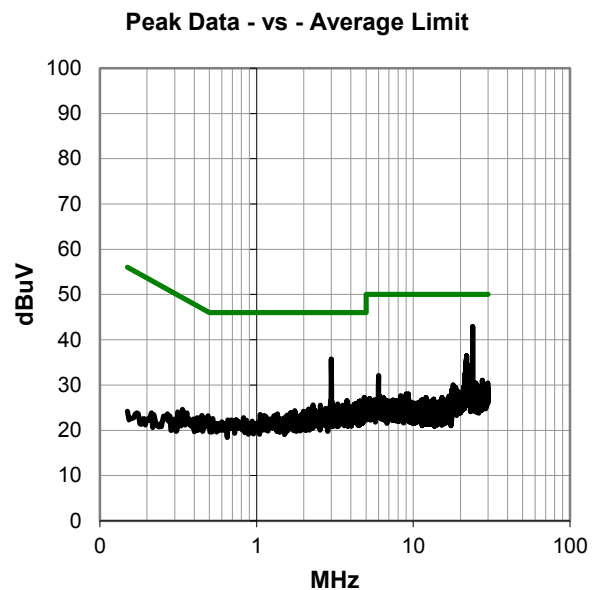
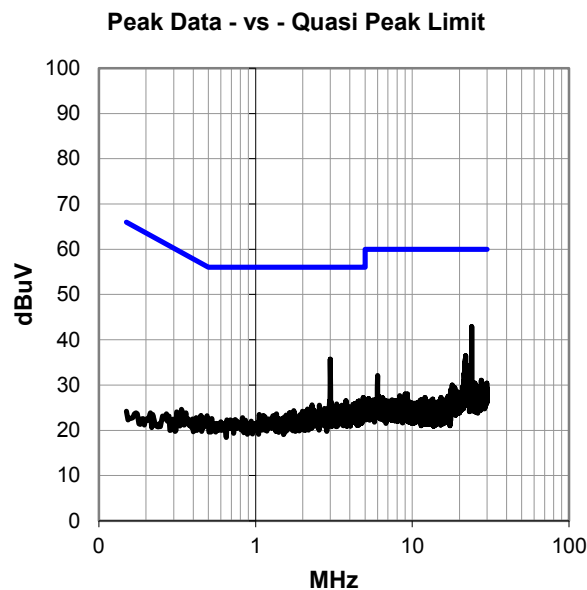
None

EUT OPERATING MODES

Transmitting EDR DH5 Mid Channel 2440 MHz

DEVIATIONS FROM TEST STANDARD

None



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #6

Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
23.997	21.1	21.8	42.9	60.0	-17.1
3.000	15.4	20.3	35.7	56.0	-20.3
21.889	14.8	21.6	36.4	60.0	-23.6
21.863	14.1	21.6	35.7	60.0	-24.3
21.665	13.6	21.6	35.2	60.0	-24.8
21.770	13.4	21.6	35.0	60.0	-25.0
22.050	12.9	21.7	34.6	60.0	-25.4
22.180	12.6	21.7	34.3	60.0	-25.7
21.983	12.6	21.7	34.3	60.0	-25.7
22.150	12.0	21.7	33.7	60.0	-26.3
21.733	11.9	21.6	33.5	60.0	-26.5
22.359	11.6	21.7	33.3	60.0	-26.7
21.591	11.1	21.6	32.7	60.0	-27.3
21.460	11.1	21.6	32.7	60.0	-27.3
21.636	11.0	21.6	32.6	60.0	-27.4
22.288	10.8	21.7	32.5	60.0	-27.5
21.602	10.8	21.6	32.4	60.0	-27.6
22.468	10.6	21.7	32.3	60.0	-27.7
6.000	11.6	20.5	32.1	60.0	-27.9
22.587	10.1	21.7	31.8	60.0	-28.2
22.673	9.6	21.7	31.3	60.0	-28.7
4.866	6.8	20.4	27.2	56.0	-28.8
27.549	8.8	22.2	31.0	60.0	-29.0
22.811	9.0	21.7	30.7	60.0	-29.3
3.776	6.2	20.4	26.6	56.0	-29.4
2.970	6.2	20.3	26.5	56.0	-29.5

Peak Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
23.997	21.1	21.8	42.9	50.0	-7.1
3.000	15.4	20.3	35.7	46.0	-10.3
21.889	14.8	21.6	36.4	50.0	-13.6
21.863	14.1	21.6	35.7	50.0	-14.3
21.665	13.6	21.6	35.2	50.0	-14.8
21.770	13.4	21.6	35.0	50.0	-15.0
22.050	12.9	21.7	34.6	50.0	-15.4
22.180	12.6	21.7	34.3	50.0	-15.7
21.983	12.6	21.7	34.3	50.0	-15.7
22.150	12.0	21.7	33.7	50.0	-16.3
21.733	11.9	21.6	33.5	50.0	-16.5
22.359	11.6	21.7	33.3	50.0	-16.7
21.591	11.1	21.6	32.7	50.0	-17.3
21.460	11.1	21.6	32.7	50.0	-17.3
21.636	11.0	21.6	32.6	50.0	-17.4
22.288	10.8	21.7	32.5	50.0	-17.5
21.602	10.8	21.6	32.4	50.0	-17.6
22.468	10.6	21.7	32.3	50.0	-17.7
6.000	11.6	20.5	32.1	50.0	-17.9
22.587	10.1	21.7	31.8	50.0	-18.2
22.673	9.6	21.7	31.3	50.0	-18.7
4.866	6.8	20.4	27.2	46.0	-18.8
27.549	8.8	22.2	31.0	50.0	-19.0
22.811	9.0	21.7	30.7	50.0	-19.3
3.776	6.2	20.4	26.6	46.0	-19.4
2.970	6.2	20.3	26.5	46.0	-19.5

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS

EUT:	ConnectCore i.MX6 WiFi/Bluetooth	Work Order:	ETHE0018
Serial Number:	00409D 7C03CD	Date:	01/26/2015
Customer:	Etherios Design Solutions	Temperature:	18.1°C
Attendees:	None	Relative Humidity:	48.5%
Customer Project:	None	Bar. Pressure:	1007.4 mb
Tested By:	Brandon Hobbs	Job Site:	MN03
Power:	5VDC	Configuration:	ETHE0018-5

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2015	ANSI C63.10:2009

TEST PARAMETERS

Run #:	7	Line:	Negative Lead	Ext. Attenuation (dB):	20
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COMMENTS

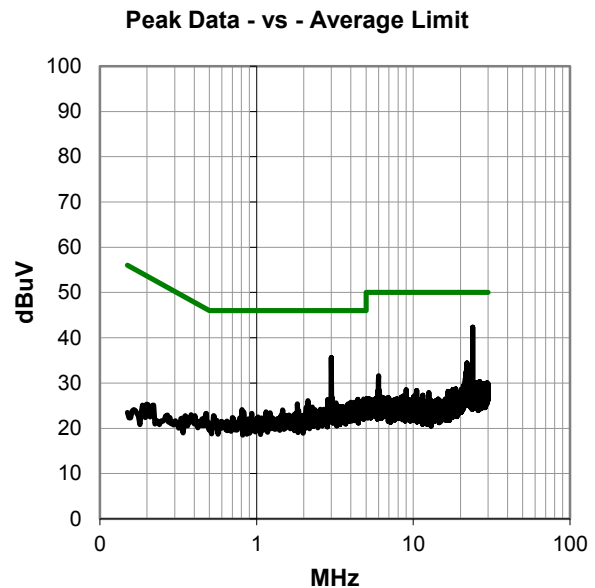
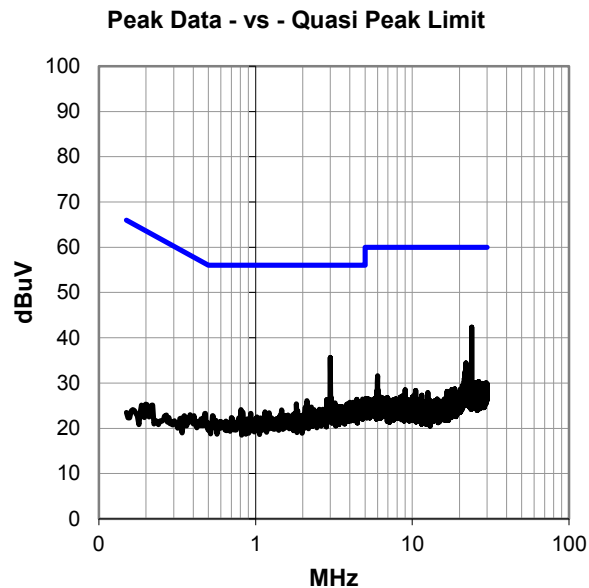
None

EUT OPERATING MODES

Transmitting EDR DH5 Mid Channel 2440 MHz

DEVIATIONS FROM TEST STANDARD

None



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #7

Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
23.997	20.5	21.8	42.3	60.0	-17.7
3.000	15.3	20.3	35.6	56.0	-20.4
22.053	12.8	21.7	34.5	60.0	-25.5
21.968	11.2	21.7	32.9	60.0	-27.1
21.908	11.2	21.6	32.8	60.0	-27.2
22.165	11.1	21.7	32.8	60.0	-27.2
22.005	11.0	21.7	32.7	60.0	-27.3
21.830	11.0	21.6	32.6	60.0	-27.4
21.815	10.8	21.6	32.4	60.0	-27.6
22.068	10.7	21.7	32.4	60.0	-27.6
21.878	10.5	21.6	32.1	60.0	-27.9
21.762	10.5	21.6	32.1	60.0	-27.9
21.688	10.3	21.6	31.9	60.0	-28.1
22.427	10.2	21.7	31.9	60.0	-28.1
22.400	10.1	21.7	31.8	60.0	-28.2
6.000	11.1	20.5	31.6	60.0	-28.4
22.322	9.8	21.7	31.5	60.0	-28.5
22.221	9.7	21.7	31.4	60.0	-28.6
22.080	9.5	21.7	31.2	60.0	-28.8
21.792	9.4	21.6	31.0	60.0	-29.0
21.554	9.4	21.6	31.0	60.0	-29.0
3.030	6.6	20.3	26.9	56.0	-29.1
22.501	8.9	21.7	30.6	60.0	-29.4
21.565	8.9	21.6	30.5	60.0	-29.5
4.832	6.0	20.4	26.4	56.0	-29.6
4.429	6.0	20.4	26.4	56.0	-29.6

Peak Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
23.997	20.5	21.8	42.3	50.0	-7.7
3.000	15.3	20.3	35.6	46.0	-10.4
22.053	12.8	21.7	34.5	50.0	-15.5
21.968	11.2	21.7	32.9	50.0	-17.1
21.908	11.2	21.6	32.8	50.0	-17.2
22.165	11.1	21.7	32.8	50.0	-17.2
22.005	11.0	21.7	32.7	50.0	-17.3
21.830	11.0	21.6	32.6	50.0	-17.4
21.815	10.8	21.6	32.4	50.0	-17.6
22.068	10.7	21.7	32.4	50.0	-17.6
21.878	10.5	21.6	32.1	50.0	-17.9
21.762	10.5	21.6	32.1	50.0	-17.9
21.688	10.3	21.6	31.9	50.0	-18.1
22.427	10.2	21.7	31.9	50.0	-18.1
22.400	10.1	21.7	31.8	50.0	-18.2
6.000	11.1	20.5	31.6	50.0	-18.4
22.322	9.8	21.7	31.5	50.0	-18.5
22.221	9.7	21.7	31.4	50.0	-18.6
22.080	9.5	21.7	31.2	50.0	-18.8
21.792	9.4	21.6	31.0	50.0	-19.0
21.554	9.4	21.6	31.0	50.0	-19.0
3.030	6.6	20.3	26.9	46.0	-19.1
22.501	8.9	21.7	30.6	50.0	-19.4
21.565	8.9	21.6	30.5	50.0	-19.5
4.832	6.0	20.4	26.4	46.0	-19.6
4.429	6.0	20.4	26.4	46.0	-19.6

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS

EUT:	ConnectCore i.MX6 WiFi/Bluetooth	Work Order:	ETHE0018
Serial Number:	00409D 7C03CD	Date:	01/26/2015
Customer:	Etherios Design Solutions	Temperature:	18.1°C
Attendees:	None	Relative Humidity:	48.5%
Customer Project:	None	Bar. Pressure:	1007.4 mb
Tested By:	Brandon Hobbs	Job Site:	MN03
Power:	5VDC	Configuration:	ETHE0018-5

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2015	ANSI C63.10:2009

TEST PARAMETERS

Run #:	8	Line:	Negative Lead	Ext. Attenuation (dB):	20
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COMMENTS

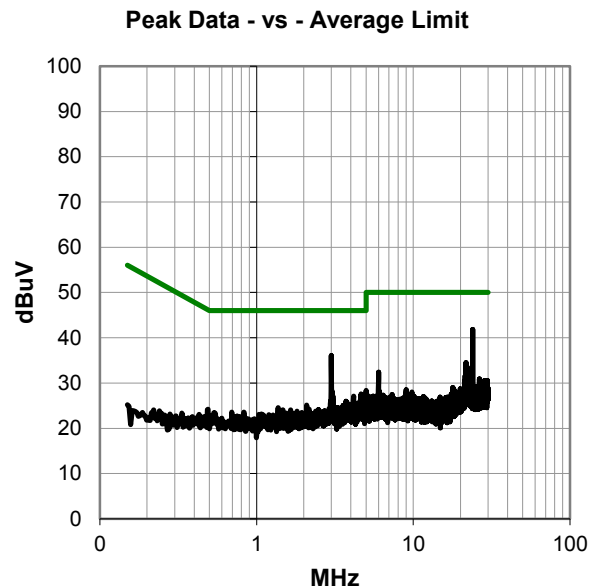
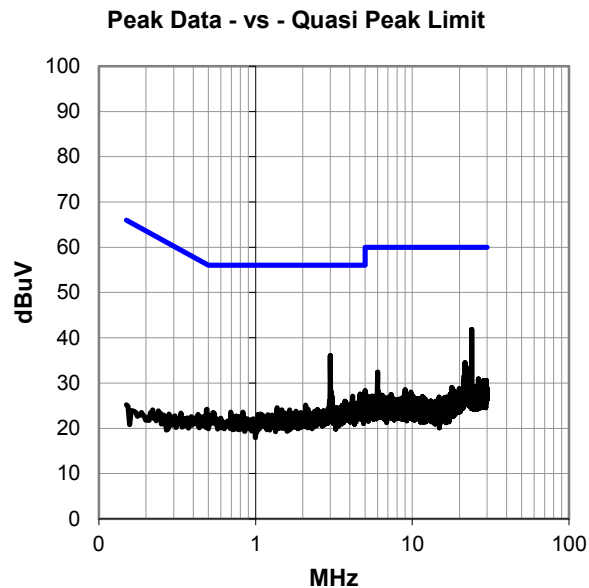
None

EUT OPERATING MODES

Transmitting EDR DH5 High Channel 2480 MHz

DEVIATIONS FROM TEST STANDARD

None



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #8

Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
23.997	20.0	21.8	41.8	60.0	-18.2
3.000	15.7	20.3	36.0	56.0	-20.0
21.714	12.9	21.6	34.5	60.0	-25.5
21.949	11.9	21.7	33.6	60.0	-26.4
22.180	11.8	21.7	33.5	60.0	-26.5
21.927	11.6	21.6	33.2	60.0	-26.8
21.792	11.5	21.6	33.1	60.0	-26.9
21.658	11.1	21.6	32.7	60.0	-27.3
22.124	10.8	21.7	32.5	60.0	-27.5
22.031	10.8	21.7	32.5	60.0	-27.5
6.004	11.9	20.5	32.4	60.0	-27.6
21.863	10.7	21.6	32.3	60.0	-27.7
3.034	7.8	20.3	28.1	56.0	-27.9
22.292	10.2	21.7	31.9	60.0	-28.1
21.695	10.2	21.6	31.8	60.0	-28.2
22.538	10.1	21.7	31.8	60.0	-28.2
21.501	10.1	21.6	31.7	60.0	-28.3
21.554	10.0	21.6	31.6	60.0	-28.4
4.653	7.2	20.4	27.6	56.0	-28.4
21.990	9.9	21.7	31.6	60.0	-28.4
21.587	9.9	21.6	31.5	60.0	-28.5
22.400	9.8	21.7	31.5	60.0	-28.5
4.668	6.9	20.4	27.3	56.0	-28.7
22.270	9.5	21.7	31.2	60.0	-28.8
3.075	6.8	20.3	27.1	56.0	-28.9
4.161	6.7	20.4	27.1	56.0	-28.9

Peak Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
23.997	20.0	21.8	41.8	50.0	-8.2
3.000	15.7	20.3	36.0	46.0	-10.0
21.714	12.9	21.6	34.5	50.0	-15.5
21.949	11.9	21.7	33.6	50.0	-16.4
22.180	11.8	21.7	33.5	50.0	-16.5
21.927	11.6	21.6	33.2	50.0	-16.8
21.792	11.5	21.6	33.1	50.0	-16.9
21.658	11.1	21.6	32.7	50.0	-17.3
22.124	10.8	21.7	32.5	50.0	-17.5
22.031	10.8	21.7	32.5	50.0	-17.5
6.004	11.9	20.5	32.4	50.0	-17.6
21.863	10.7	21.6	32.3	50.0	-17.7
3.034	7.8	20.3	28.1	46.0	-17.9
22.292	10.2	21.7	31.9	50.0	-18.1
21.695	10.2	21.6	31.8	50.0	-18.2
22.538	10.1	21.7	31.8	50.0	-18.2
21.501	10.1	21.6	31.7	50.0	-18.3
21.554	10.0	21.6	31.6	50.0	-18.4
4.653	7.2	20.4	27.6	46.0	-18.4
21.990	9.9	21.7	31.6	50.0	-18.4
21.587	9.9	21.6	31.5	50.0	-18.5
22.400	9.8	21.7	31.5	50.0	-18.5
4.668	6.9	20.4	27.3	46.0	-18.7
22.270	9.5	21.7	31.2	50.0	-18.8
3.075	6.8	20.3	27.1	46.0	-18.9
4.161	6.7	20.4	27.1	46.0	-18.9

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS

EUT:	ConnectCore i.MX6 WiFi/Bluetooth	Work Order:	ETHE0018
Serial Number:	00409D 7C03CD	Date:	01/26/2015
Customer:	Etherios Design Solutions	Temperature:	18.1°C
Attendees:	None	Relative Humidity:	48.5%
Customer Project:	None	Bar. Pressure:	1007.4 mb
Tested By:	Brandon Hobbs	Job Site:	MN03
Power:	5VDC	Configuration:	ETHE0018-5

TEST SPECIFICATIONS

Specification:	Method:
FCC 15.207:2015	ANSI C63.10:2009

TEST PARAMETERS

Run #:	9	Line:	Positive Lead	Ext. Attenuation (dB):	20
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COMMENTS

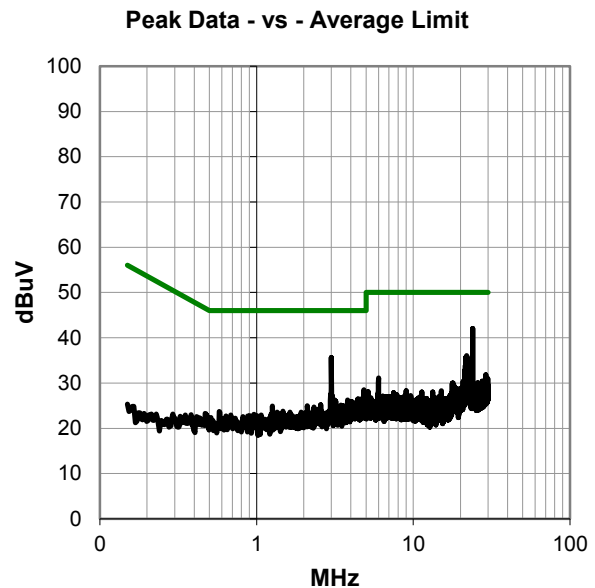
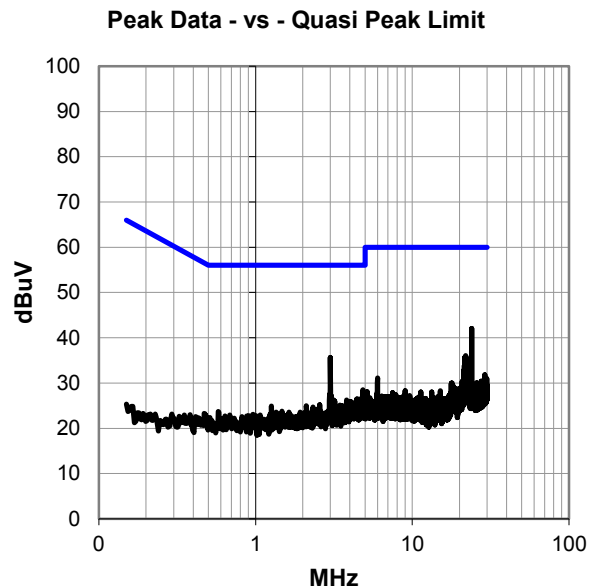
None

EUT OPERATING MODES

Transmitting EDR DH5 High Channel 2480 MHz

DEVIATIONS FROM TEST STANDARD

None



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #9

Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
23.997	20.2	21.8	42.0	60.0	-18.0
3.000	15.3	20.3	35.6	56.0	-20.4
21.971	14.4	21.7	36.1	60.0	-23.9
21.606	14.0	21.6	35.6	60.0	-24.4
22.016	13.9	21.7	35.6	60.0	-24.4
21.863	13.9	21.6	35.5	60.0	-24.5
21.733	13.9	21.6	35.5	60.0	-24.5
21.692	13.8	21.6	35.4	60.0	-24.6
22.053	13.4	21.7	35.1	60.0	-24.9
22.098	12.9	21.7	34.6	60.0	-25.4
21.766	12.8	21.6	34.4	60.0	-25.6
21.945	12.4	21.7	34.1	60.0	-26.0
21.486	12.3	21.6	33.9	60.0	-26.1
22.195	12.1	21.7	33.8	60.0	-26.2
21.624	11.9	21.6	33.5	60.0	-26.5
22.311	11.8	21.7	33.5	60.0	-26.5
22.288	11.7	21.7	33.4	60.0	-26.6
21.527	11.5	21.6	33.1	60.0	-26.9
21.438	11.2	21.6	32.8	60.0	-27.2
4.836	8.1	20.4	28.5	56.0	-27.5
22.374	10.6	21.7	32.3	60.0	-27.7
21.415	10.3	21.6	31.9	60.0	-28.1
29.090	9.4	22.4	31.8	60.0	-28.2
2.967	7.2	20.3	27.5	56.0	-28.5
21.386	9.8	21.6	31.4	60.0	-28.6
22.255	9.7	21.7	31.4	60.0	-28.6

Peak Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
23.997	20.2	21.8	42.0	50.0	-8.0
3.000	15.3	20.3	35.6	46.0	-10.4
21.971	14.4	21.7	36.1	50.0	-13.9
21.606	14.0	21.6	35.6	50.0	-14.4
22.016	13.9	21.7	35.6	50.0	-14.4
21.863	13.9	21.6	35.5	50.0	-14.5
21.733	13.9	21.6	35.5	50.0	-14.5
21.692	13.8	21.6	35.4	50.0	-14.6
22.053	13.4	21.7	35.1	50.0	-14.9
22.098	12.9	21.7	34.6	50.0	-15.4
21.766	12.8	21.6	34.4	50.0	-15.6
21.945	12.4	21.7	34.1	50.0	-16.0
21.486	12.3	21.6	33.9	50.0	-16.1
22.195	12.1	21.7	33.8	50.0	-16.2
21.624	11.9	21.6	33.5	50.0	-16.5
22.311	11.8	21.7	33.5	50.0	-16.5
22.288	11.7	21.7	33.4	50.0	-16.6
21.527	11.5	21.6	33.1	50.0	-16.9
21.438	11.2	21.6	32.8	50.0	-17.2
4.836	8.1	20.4	28.5	46.0	-17.5
22.374	10.6	21.7	32.3	50.0	-17.7
21.415	10.3	21.6	31.9	50.0	-18.1
29.090	9.4	22.4	31.8	50.0	-18.2
2.967	7.2	20.3	27.5	46.0	-18.5
21.386	9.8	21.6	31.4	50.0	-18.6
22.255	9.7	21.7	31.4	50.0	-18.6

CONCLUSION

Pass



Tested By

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 DH5, 2DH5, 3DH5. Low, Mid, High Channel @ 2402, 2440, 2480 MHz.

POWER SETTINGS INVESTIGATED

5VDC

CONFIGURATIONS INVESTIGATED

ETHE0018 - 2

ETHE0018 - 3

ETHE0018 - 4

FREQUENCY RANGE INVESTIGATED

Start Frequency 30 MHz Stop Frequency 25000 MHz

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
High Pass Filter	Micro-Tronics	HPM50111	HHX	8/18/2014	12 mo
Low Pass Filter	Micro-Tronics	LPM50004	HHV	8/18/2014	12 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	PAK	10/27/2014	12 mo
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	PAL	10/27/2015	12 mo
TX02 Cable	NWEMC	8-18GHz	TXD	10/27/2016	12mo
Pre-Amplifier	Miteq	JSDQK42-18004000-60-5P	PAM	11/21/2014	12 mo
Cable	NWEMC	18-40GHz	TXE	11/21/2014	12 mo
Antenna, Double Ridge Guide Horn	A.H. Systems, Inc.	SAS-574	AXW	4/23/2014	36 mo
Antenna, Horn	ETS Lindgren	3160-08	AJG	NCR	0 mo
Antenna, Horn	ETS Lindgren	3160-07	AJF	NCR	0 mo
Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	PAJ	9/22/2014	12 mo
TX02 Cable	NWEMC	1-8.2 GHz	TXC	9/22/2014	12 mo
Antenna, Horn	ETS Lindgren	3115	AJL	9/15/2014	24 mo
Pre-Amplifier	Miteq	AM-1551	PAH	9/13/2014	12 mo
TX02 Cable	N/A	RE 9kHz - 1GHz	TXB	9/22/2014	12 mo
Attenuator	Fairview Microwave	SA18H-20	TKQ	12/8/2014	0 mo
Antenna, Biconilog	ETS Lindgren	3143B	AYF	4/7/2014	36 mo
Spectrum Analyzer	Agilent	N9010A	AFL	6/20/2014	12 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

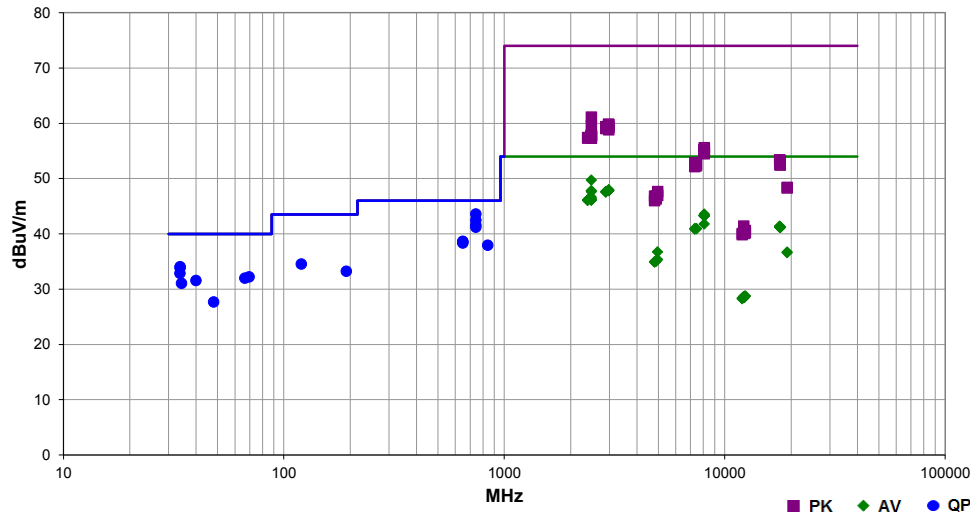
TEST DESCRIPTION

The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization. A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

Work Order:	ETHE0018	Date:	01/09/15	
Project:	None	Temperature:	22.1 °C	
Job Site:	TX02	Humidity:	15.4% RH	
Serial Number:	00409D 7C03D2	Barometric Pres.:	1035 mbar	
EUT:	ConnectCore i.MX6 WiFi/Bluetooth			Tested by: Jonathan Kiefer
Configuration:	3			
Customer:	Etherios Design Solutions			
Attendees:	None			
EUT Power:	5VDC			
Operating Mode:	Transmitting DH5, 2DH5, 3DH5. Low, Mid, High Channel @ 2402, 2440, 2480 MHz.			
Deviations:	None			
Comments:	None			

Test Specifications	FCC 15.247:2015	Test Method	ANSI C63.10:2009
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Run #	61	Test Distance (m)	3	Antenna Height(s)	1 to 4(m)	Results	Pass
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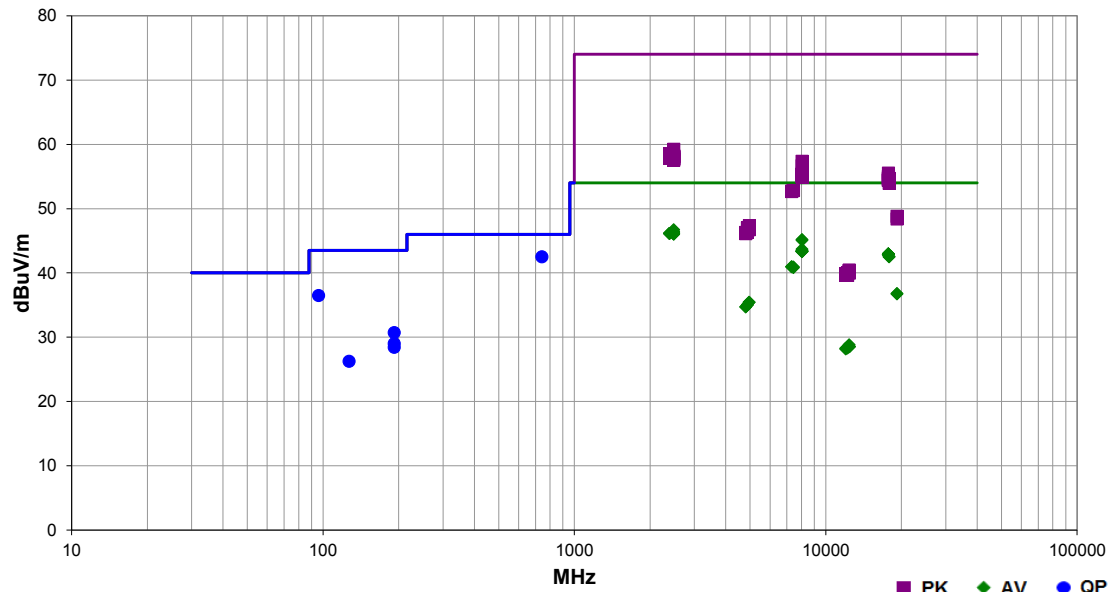
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
742.484	57.0	-13.4	1.1	237.9	3.0	0.0	Vert	QP	0.0	43.6	46.0	-2.4	DH5, Mid Ch, EUT Horizontal
742.486	55.9	-13.4	1.1	241.0	3.0	0.0	Vert	QP	0.0	42.5	46.0	-3.5	DH5, Low Ch, EUT Horizontal
2483.035	34.4	-4.7	1.2	351.9	3.0	20.0	Horz	AV	0.0	49.7	54.0	-4.3	DH5, High Channel 2480 MHz, EUT On Side
742.484	55.0	-13.4	1.2	52.9	3.0	0.0	Horz	QP	0.0	41.6	46.0	-4.4	DH5, Mid Ch, EUT Horizontal
742.484	54.6	-13.4	1.0	49.0	3.0	0.0	Horz	QP	0.0	41.2	46.0	-4.8	DH5, Low Ch, EUT Horizontal
33.802	59.6	-25.5	1.0	355.0	3.0	0.0	Vert	QP	0.0	34.1	40.0	-5.9	DH5, Mid Ch, EUT Horizontal
2979.303	29.9	-2.0	3.3	356.0	3.0	20.0	Vert	AV	0.0	47.9	54.0	-6.1	2DH5, Mid Channel 2440 MHz, EUT Vertical
2977.423	29.9	-2.0	1.2	234.0	3.0	20.0	Vert	AV	0.0	47.9	54.0	-6.1	DH5, Low Channel 2402 MHz, EUT Vertical
2975.473	29.9	-2.0	1.2	296.0	3.0	20.0	Vert	AV	0.0	47.9	54.0	-6.1	DH5, Low Channel 2402 MHz, EUT Horizontal
2974.715	29.9	-2.0	2.8	193.0	3.0	20.0	Vert	AV	0.0	47.9	54.0	-6.1	DH5, Low Channel 2402 MHz, EUT On Side
2972.840	29.9	-2.0	1.2	328.9	3.0	20.0	Horz	AV	0.0	47.9	54.0	-6.1	DH5, Low Channel 2402 MHz, EUT Vertical
33.802	59.4	-25.5	1.0	129.0	3.0	0.0	Vert	QP	0.0	33.9	40.0	-6.1	DH5, Low Ch, EUT Horizontal
2483.022	32.5	-4.7	1.2	214.9	3.0	20.0	Horz	AV	0.0	47.8	54.0	-6.2	3DH5, High Channel 2480 MHz, EUT On Side
2977.023	29.8	-2.0	1.2	261.0	3.0	20.0	Horz	AV	0.0	47.8	54.0	-6.2	DH5, Low Channel 2402 MHz, EUT Horizontal
2976.987	29.8	-2.0	1.2	321.0	3.0	20.0	Vert	AV	0.0	47.8	54.0	-6.2	3DH5, Mid Channel 2440 MHz, EUT Vertical
2975.873	29.8	-2.0	1.2	68.0	3.0	20.0	Horz	AV	0.0	47.8	54.0	-6.2	DH5, Low Channel 2402 MHz, EUT On Side
2887.518	30.2	-2.6	1.2	357.0	3.0	20.0	Horz	AV	0.0	47.6	54.0	-6.4	DH5, Mid Channel 2440 MHz, EUT Vertical
2483.008	32.3	-4.7	2.6	270.0	3.0	20.0	Vert	AV	0.0	47.6	54.0	-6.4	DH5, High Channel 2480 MHz, EUT Horizontal
2885.558	30.1	-2.6	1.2	1.0	3.0	20.0	Vert	AV	0.0	47.5	54.0	-6.5	DH5, Mid Channel 2440 MHz, EUT Vertical
33.800	58.4	-25.5	1.0	21.0	3.0	0.0	Vert	QP	0.0	32.9	40.0	-7.1	DH5, High Ch, EUT Horizontal
647.987	53.4	-14.7	1.0	164.0	3.0	0.0	Vert	QP	0.0	38.7	46.0	-7.3	DH5, Low Ch, EUT Horizontal
2483.090	31.3	-4.7	2.7	158.0	3.0	20.0	Vert	AV	0.0	46.6	54.0	-7.4	DH5, High Channel 2480 MHz, EUT On Side
647.989	53.3	-14.7	1.0	153.9	3.0	0.0	Vert	QP	0.0	38.6	46.0	-7.4	DH5, High Ch, EUT Horizontal
647.987	53.1	-14.7	1.0	243.0	3.0	0.0	Horz	QP	0.0	38.4	46.0	-7.6	DH5, Mid Ch, EUT Horizontal
2483.225	31.0	-4.7	1.2	321.0	3.0	20.0	Horz	AV	0.0	46.3	54.0	-7.7	DH5, High Channel 2480 MHz, EUT Horizontal
69.568	64.4	-32.2	2.5	138.0	3.0	0.0	Horz	QP	0.0	32.2	40.0	-7.8	DH5, High Ch, EUT Horizontal
2391.150	30.9	-4.8	1.2	111.0	3.0	20.0	Horz	AV	0.0	46.1	54.0	-7.9	DH5, Low Channel 2402 MHz, EUT On Side
2389.667	30.9	-4.8	2.9	58.9	3.0	20.0	Horz	AV	0.0	46.1	54.0	-7.9	3DH5, Low Channel 2402 MHz, EUT On Side
2483.937	30.8	-4.7	1.2	346.9	3.0	20.0	Horz	AV	0.0	46.1	54.0	-7.9	DH5, High Channel 2480 MHz, EUT Vertical
2483.285	30.8	-4.7	1.5	307.0	3.0	20.0	Horz	AV	0.0	46.1	54.0	-7.9	2DH5, High Channel 2480 MHz, EUT On Side
2483.192	30.8	-4.7	1.2	87.0	3.0	20.0	Vert	AV	0.0	46.1	54.0	-7.9	DH5, High Channel 2480 MHz, EUT Vertical
2388.117	30.8	-4.8	1.2	289.0	3.0	20.0	Horz	AV	0.0	46.0	54.0	-8.0	2DH5, Low Channel 2402 MHz, EUT On Side
66.568	64.4	-32.4	1.4	183.0	3.0	0.0	Vert	QP	0.0	32.0	40.0	-8.0	DH5, Low Ch, EUT Horizontal
841.481	50.0	-12.1	1.0	114.0	3.0	0.0	Horz	QP	0.0	37.9	46.0	-8.1	DH5, Low Ch, EUT Horizontal
39.938	60.4	-28.8	1.0	127.0	3.0	0.0	Vert	QP	0.0	31.6	40.0	-8.4	DH5, High Ch, EUT Horizontal
34.310	56.9	-25.8	1.0	106.9	3.0	0.0	Vert	QP	0.0	31.1	40.0	-8.9	DH5, Mid Ch, EUT Horizontal
120.005	65.6	-31.0	1.0	10.9	3.0	0.0	Vert	QP	0.0	34.6	43.5	-8.9	DH5, High Ch, EUT Horizontal
192.007	61.5	-28.3	1.6	262.9	3.0	0.0	Horz	QP	0.0	33.2	43.5	-10.3	DH5, High Ch, EUT Horizontal
8077.832	28.3	15.3	1.2	140.0	3.0	0.0	Horz	AV	0.0	43.6	54.0	-10.4	DH5, High Channel 2480 MHz, EUT On Side
8077.265	28.1	15.3	1.2	159.9	3.0	0.0	Vert	AV	0.0	43.4	54.0	-10.6	DH5, High Channel 2480 MHz, EUT On Side
8075.373	28.0	15.3	1.2	0.0	3.0	0.0	Horz	AV	0.0	43.3	54.0	-10.7	DH5, High Channel 2480 MHz, EUT Horizontal
8076.123	28.0	15.3	1.2	225.9	3.0	0.0	Vert	AV	0.0	43.3	54.0	-10.7	DH5, High Channel 2480 MHz, EUT Horizontal
8076.915	28.0	15.3	1.2	360.0	3.0	0.0	Horz	AV	0.0	43.3	54.0	-10.7	DH5, High Channel 2480 MHz, EUT On Side
8077.365	28.0	15.3	1.2	79.0	3.0	0.0	Horz	AV	0.0	43.3	54.0	-10.7	DH5, High Channel 2480 MHz, EUT Vertical

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
8077.965	28.0	15.3	1.2	93.9	3.0	0.0	Vert	AV	0.0	43.3	54.0	-10.7	DH5, High Channel 2480 MHz, EUT Vertical
8079.822	28.0	15.3	1.2	8.0	3.0	0.0	Horz	AV	0.0	43.3	54.0	-10.7	3DH5, High Channel 2480 MHz, EUT On Side
8078.422	26.5	15.3	1.2	260.0	3.0	0.0	Horz	AV	0.0	41.8	54.0	-12.2	2DH5, High Channel 2480 MHz, EUT On Side
48.008	59.8	-32.1	1.0	188.0	3.0	0.0	Vert	QP	0.0	27.7	40.0	-12.3	DH5, Mid Ch, EUT Horizontal
17747.060	24.4	17.0	2.4	202.9	3.0	0.0	Horz	AV	0.0	41.4	54.0	-12.6	DH5, High Channel 2480 MHz, EUT Vertical
17771.490	24.4	16.9	1.2	264.0	3.0	0.0	Horz	AV	0.0	41.3	54.0	-12.7	DH5, Low Channel 2402 MHz, EUT Vertical
17826.710	24.6	16.7	1.0	102.0	3.0	0.0	Vert	AV	0.0	41.3	54.0	-12.7	DH5, High Channel 2480 MHz, EUT Vertical
17756.420	24.3	16.9	1.2	73.0	3.0	0.0	Horz	AV	0.0	41.2	54.0	-12.8	DH5, Mid Channel 2440 MHz, EUT Vertical
17825.910	24.5	16.7	1.2	326.0	3.0	0.0	Horz	AV	0.0	41.2	54.0	-12.8	DH5, Mid Channel 2440 MHz, EUT On Side
17825.980	24.5	16.7	1.2	34.9	3.0	0.0	Vert	AV	0.0	41.2	54.0	-12.8	DH5, Mid Channel 2440 MHz, EUT Horizontal
17827.130	24.5	16.7	1.2	49.0	3.0	0.0	Horz	AV	0.0	41.2	54.0	-12.8	DH5, Mid Channel 2440 MHz, EUT Horizontal
17828.470	24.5	16.7	1.2	135.0	3.0	0.0	Vert	AV	0.0	41.2	54.0	-12.8	DH5, Mid Channel 2440 MHz, EUT Vertical
17828.890	24.5	16.7	1.1	15.0	3.0	0.0	Horz	AV	0.0	41.2	54.0	-12.8	DH5, Mid Channel 2440 MHz, EUT Vertical
17829.140	24.5	16.7	1.2	189.0	3.0	0.0	Vert	AV	0.0	41.2	54.0	-12.8	DH5, Mid Channel 2440 MHz, EUT On Side
17829.140	24.5	16.7	1.2	148.9	3.0	0.0	Vert	AV	0.0	41.2	54.0	-12.8	DH5, Mid Channel 2440 MHz, EUT Vertical
2483.990	45.8	-4.7	2.7	158.0	3.0	20.0	Vert	PK	0.0	61.1	74.0	-12.9	DH5, High Channel 2480 MHz, EUT On Side
7321.225	27.6	13.4	1.2	243.0	3.0	0.0	Horz	AV	0.0	41.0	54.0	-13.0	DH5, Mid Channel 2440 MHz, EUT On Side
7441.658	27.5	13.4	1.2	88.9	3.0	0.0	Vert	AV	0.0	40.9	54.0	-13.1	DH5, High Channel 2480 MHz, EUT On Side
7439.233	27.5	13.4	1.2	116.0	3.0	0.0	Horz	AV	0.0	40.9	54.0	-13.1	DH5, High Channel 2480 MHz, EUT On Side
7321.958	27.5	13.4	3.5	274.9	3.0	0.0	Vert	AV	0.0	40.9	54.0	-13.1	DH5, Mid Channel 2440 MHz, EUT On Side
2975.703	41.8	-2.0	1.2	321.0	3.0	20.0	Vert	PK	0.0	59.8	74.0	-14.2	3DH5, Mid Channel 2440 MHz, EUT Vertical
2973.240	41.8	-2.0	1.2	68.0	3.0	20.0	Horz	PK	0.0	59.8	74.0	-14.2	DH5, Low Channel 2402 MHz, EUT On Side
2972.890	41.8	-2.0	2.8	193.0	3.0	20.0	Vert	PK	0.0	59.8	74.0	-14.2	DH5, Low Channel 2402 MHz, EUT On Side
2483.190	44.2	-4.7	2.6	270.0	3.0	20.0	Vert	PK	0.0	59.5	74.0	-14.5	DH5, High Channel 2480 MHz, EUT Horizontal
2974.923	41.5	-2.0	1.2	296.0	3.0	20.0	Vert	PK	0.0	59.5	74.0	-14.5	DH5, Low Channel 2402 MHz, EUT Horizontal
2974.540	41.4	-2.0	1.2	328.9	3.0	20.0	Horz	PK	0.0	59.4	74.0	-14.6	DH5, Low Channel 2402 MHz, EUT Vertical
2887.302	41.9	-2.6	1.2	357.0	3.0	20.0	Horz	PK	0.0	59.3	74.0	-14.7	DH5, Mid Channel 2440 MHz, EUT Vertical
2975.523	41.2	-2.0	1.2	261.0	3.0	20.0	Horz	PK	0.0	59.2	74.0	-14.8	DH5, Low Channel 2402 MHz, EUT Horizontal
2974.115	41.2	-2.0	1.2	234.0	3.0	20.0	Vert	PK	0.0	59.2	74.0	-14.8	DH5, Low Channel 2402 MHz, EUT Vertical
2886.350	41.6	-2.6	1.2	1.0	3.0	20.0	Vert	PK	0.0	59.0	74.0	-15.0	DH5, Mid Channel 2440 MHz, EUT Vertical
2978.762	40.8	-2.0	3.3	356.0	3.0	20.0	Vert	PK	0.0	58.8	74.0	-15.2	2DH5, Mid Channel 2440 MHz, EUT Vertical
2483.968	42.6	-4.7	1.2	351.9	3.0	20.0	Horz	PK	0.0	57.9	74.0	-16.1	DH5, High Channel 2480 MHz, EUT On Side
2483.702	42.4	-4.7	1.2	346.9	3.0	20.0	Horz	PK	0.0	57.7	74.0	-16.3	DH5, High Channel 2480 MHz, EUT On Side
2483.433	42.4	-4.7	1.2	87.0	3.0	20.0	Vert	PK	0.0	57.7	74.0	-16.3	DH5, High Channel 2480 MHz, EUT Vertical
2483.308	42.4	-4.7	1.2	214.9	3.0	20.0	Horz	PK	0.0	57.7	74.0	-16.3	3DH5, High Channel 2480 MHz, EUT On Side
2483.998	42.3	-4.7	1.5	307.0	3.0	20.0	Horz	PK	0.0	57.6	74.0	-16.4	2DH5, High Channel 2480 MHz, EUT On Side
2392.333	42.2	-4.8	2.9	58.9	3.0	20.0	Horz	PK	0.0	57.4	74.0	-16.6	3DH5, Low Channel 2402 MHz, EUT On Side
2391.633	42.1	-4.8	1.2	111.0	3.0	20.0	Horz	PK	0.0	57.3	74.0	-16.7	DH5, Low Channel 2402 MHz, EUT On Side
2388.217	42.1	-4.8	1.2	289.0	3.0	20.0	Horz	PK	0.0	57.3	74.0	-16.7	2DH5, Low Channel 2402 MHz, EUT On Side
2483.412	42.0	-4.7	1.2	321.0	3.0	20.0	Horz	PK	0.0	57.3	74.0	-16.7	DH5, High Channel 2480 MHz, EUT Horizontal
4960.317	28.5	8.2	1.2	45.9	3.0	0.0	Horz	AV	0.0	36.7	54.0	-17.3	DH5, High Channel 2480 MHz, EUT On Side
19215.670	49.0	-12.3	1.3	195.0	3.0	0.0	Horz	AV	0.0	36.7	54.0	-17.3	DH5, Low Ch, EUT Horizontal
19217.180	48.9	-12.3	1.3	219.9	3.0	0.0	Vert	AV	0.0	36.6	54.0	-17.4	DH5, Low Ch, EUT Horizontal
8073.482	40.3	15.3	1.2	159.9	3.0	0.0	Vert	PK	0.0	55.6	74.0	-18.4	DH5, High Channel 2480 MHz, EUT On Side
4962.425	27.1	8.2	1.9	322.9	3.0	0.0	Vert	AV	0.0	35.3	54.0	-18.7	DH5, High Channel 2480 MHz, EUT On Side
8074.273	40.0	15.3	1.2	140.0	3.0	0.0	Horz	PK	0.0	55.3	74.0	-18.7	DH5, High Channel 2480 MHz, EUT On Side
8076.190	40.0	15.3	1.2	93.9	3.0	0.0	Vert	PK	0.0	55.3	74.0	-18.7	DH5, High Channel 2480 MHz, EUT Vertical
8075.990	39.9	15.3	1.2	360.0	3.0	0.0	Horz	PK	0.0	55.2	74.0	-18.8	DH5, High Channel 2480 MHz, EUT On Side
4879.267	27.1	8.0	1.2	327.0	3.0	0.0	Vert	AV	0.0	35.1	54.0	-18.9	DH5, Mid Channel 2440 MHz, EUT On Side
4877.658	27.0	8.0	1.2	272.0	3.0	0.0	Horz	AV	0.0	35.0	54.0	-19.0	DH5, Mid Channel 2440 MHz, EUT On Side
8073.248	39.7	15.3	1.2	225.9	3.0	0.0	Vert	PK	0.0	55.0	74.0	-19.0	DH5, High Channel 2480 MHz, EUT Horizontal
4801.575	27.1	7.8	3.1	205.0	3.0	0.0	Vert	AV	0.0	34.9	54.0	-19.1	DH5, Low Channel 2402 MHz, EUT On Side
4801.508	27.1	7.8	1.2	123.0	3.0	0.0	Horz	AV	0.0	34.9	54.0	-19.1	DH5, Low Channel 2402 MHz, EUT On Side
8076.738	39.6	15.3	1.2	8.0	3.0	0.0	Horz	PK	0.0	54.9	74.0	-19.1	3DH5, High Channel 2480 MHz, EUT On Side
8077.707	39.5	15.3	1.2	79.0	3.0	0.0	Horz	PK	0.0	54.8	74.0	-19.2	DH5, High Channel 2480 MHz, EUT Vertical
8079.555	39.4	15.3	1.2	260.0	3.0	0.0	Horz	PK	0.0	54.7	74.0	-19.3	2DH5, High Channel 2480 MHz, EUT On Side
8076.957	39.2	15.3	1.2	0.0	3.0	0.0	Horz	PK	0.0	54.5	74.0	-19.5	DH5, High Channel 2480 MHz, EUT Horizontal
17745.360	36.4	17.0	2.4	202.9	3.0	0.0	Horz	PK	0.0	53.4	74.0	-20.6	DH5, High Channel 2480 MHz, EUT Vertical
17826.330	36.6	16.7	1.1	15.0	3.0	0.0	Horz	PK	0.0	53.3	74.0	-20.7	DH5, Mid Channel 2440 MHz, EUT Vertical
17826.610	36.6	16.7	1.2	135.0	3.0	0.0	Vert	PK	0.0	53.3	74.0	-20.7	DH5, Mid Channel 2440 MHz, EUT Vertical
17828.750	36.3	16.7	1.2	148.9	3.0	0.0	Vert	PK	0.0	53.0	74.0	-21.0	DH5, Mid Channel 2440 MHz, EUT Vertical
17758.740	36.0	16.9	1.2	73.0	3.0	0.0	Horz	PK	0.0	52.9	74.0	-21.1	DH5, Mid Channel 2440 MHz, EUT Vertical
17825.890	36.2	16.7	1.2	326.0	3.0	0.0	Horz	PK	0.0	52.9	74.0	-21.1	DH5, Mid Channel 2440 MHz, EUT On Side
17829.160	36.2	16.7	1.2	34.9	3.0	0.0	Vert	PK	0.0	52.9	74.0	-21.1	DH5, Mid Channel 2440 MHz, EUT Horizontal
7322.017	39.5	13.4	3.5	274.9	3.0	0.0	Vert	PK	0.0	52.9	74.0	-21.1	DH5, Mid Channel 2440 MHz, EUT On Side
17770.580	35.8	16.9	1.2	264.0	3.0	0.0	Horz	PK	0.0	52.7	74.0	-21.3	DH5, Low Channel 2402 MHz, EUT Vertical
7442.183	39.2	13.4	1.2	88.9	3.0	0.0	Vert	PK	0.0	52.6	74.0	-21.4	DH5, High Channel 2480 MHz, EUT On Side
17826.620	35.9	16.7	1.2	49.0	3.0	0.0	Horz	PK	0.0	52.6	74.0	-21.4	DH5, Mid Channel 2440 MHz, EUT Horizontal
17827.090	35.8	16.7	1.2	189.0	3.0	0.0	Vert	PK	0.0	52.5	74.0	-21.5	DH5, Mid Channel 2440 MHz, EUT On Side
17830.410	35.8	16.7	1.0	102.0	3.0	0.0	Vert	PK	0.0	52.5	74.0	-21.5	DH5, High Channel 2480 MHz, EUT Vertical
7439.242	38.9	13.4	1.2	116.0	3.0	0.0	Horz	PK	0.0	52.3	74.0	-21.7	DH5, High Channel 2480 MHz, EUT On Side
7320.183	38.8	13.4	1.2	243.0	3.0	0.0	Horz	PK	0.0	52.2	74.0	-21.8	DH5, Mid Channel 2440 MHz, EUT On Side
12399.470	29.1	-0.4	3.6	255.0	3.0	0.0	Horz	AV	0.0	28.7	54.0	-25.3	DH5, High Channel, 2480 MHz, EUT Vertical
12399.510	29.1	-0.4	1.2	208.9	3.0	0.0	Vert	AV	0.0	28.7	54.0	-25.3	DH5, High Channel, 2480 MHz, EUT Vertical
12275.130	29.4	-0.7	1.2	147.0	3.0	0.0	Vert	AV	0.0	28.7	54.0	-25.3	DH5, Mid Channel 2440 MHz, EUT Vertical
12274.090	29.4	-0.7	1.2	330.0	3.0	0.0	Horz	AV	0.0	28.7	54.0	-25.3	DH5, Mid Channel 2440 MHz, EUT Vertical
12273.880	29.4	-0.7	1.2	87.0	3.0	0.0	Vert	AV	0.0	28.7	54.0	-25.3	DH5, Mid Channel 2440 MHz, EUT On Side
12202.010	29.4	-0.8	1.2	306.0	3.0	0.0	Vert	AV	0.0	28.6	54.0	-25.4	DH5, Mid Channel 2440 MHz, EUT Vertical
12201.830	29.4	-0.8	1.2	3.0	3.0	0.0	Horz	AV	0.0	28.6	54.0	-25.4	DH5, Mid Channel 2440 MHz, EUT Vertical
12274.490	29.3	-0.7	1.2	46.9	3.0	0.0	Horz	AV	0.0	28.6	54.0	-25.4	DH5, Mid Channel 2440 MHz, EUT Horizontal
12272.920	29.3	-0.7	1.2	285.0	3.0	0.0	Vert	AV	0.0	28.6	54.0	-25.4	DH5, Mid Channel 2440 MHz, EUT Horizontal
12275.570	29.2	-0.7	1.2	112.9	3.0	0.0	Horz	AV	0.0	28.5	54.0	-25.5	DH5, Mid Channel 2440 MHz, EUT On Side
19217.040	60.7	-12.3	1.3	195.0	3.0	0.0	Horz	PK	0.0	48.4	74.0	-25.6	DH5, Low Ch, EUT Horizontal
12009.150	29.7	-1.3	1.2	285.9	3.0	0.0	Horz	AV	0.0	28.4	54.0	-25.6	DH5, Low Channel 2402 MHz, EUT Vertical
19217.130	60.6	-12.3	1.3	219.9	3.0	0.0	Vert	PK	0.0	48.3	74.0	-25.7	DH5, Low Ch, EUT Horizontal
12009.070	29.6	-1.3	1.2	81.9	3.0	0.0	Vert	AV	0.0	28.3	54.0	-25.7	DH5, Low Channel 2402 MHz, EUT Vertical
4961.542	39.4	8.2	1.2	45.9	3.0	0.0	Horz	PK	0.0	47.6	74.0	-26.4	DH5, High Channel 2480 MHz, EUT On Side
4960.992	38.7	8.2	1.9	322.9	3.0	0.0	Vert	PK	0.0	46.9	74.0	-27.1	DH5, High Channel 2480 MHz, EUT On Side
4878.617	38.8	8.0	1.2	327.0	3.0	0.0	Vert	PK	0.0	46.8	74.0		

Work Order:	ETHE0018	Date:	01/09/15	
Project:	None	Temperature:	22.1 °C	
Job Site:	TX02	Humidity:	15.4% RH	
Serial Number:	00409D 7C03D2	Barometric Pres.:	1035 mbar	
EUT:	ConnectCore i.MX6 WiFi/Bluetooth			Tested by: Jonathan Kiefer
Configuration:	2			
Customer:	Etherios Design Solutions			
Attendees:	None			
EUT Power:	5VDC			
Operating Mode:	Transmitting DH5, 2DH5, 3DH5. Low, Mid, High Channel @ 2402, 2440, 2480 MHz.			
Deviations:	None			
Comments:	None			

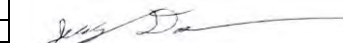
Test Specifications	Test Method
FCC 15.247:2015	ANSI C63.10:2009

Run #	61	Test Distance (m)	3	Antenna Height(s)	1 to 4(m)	Results	Pass
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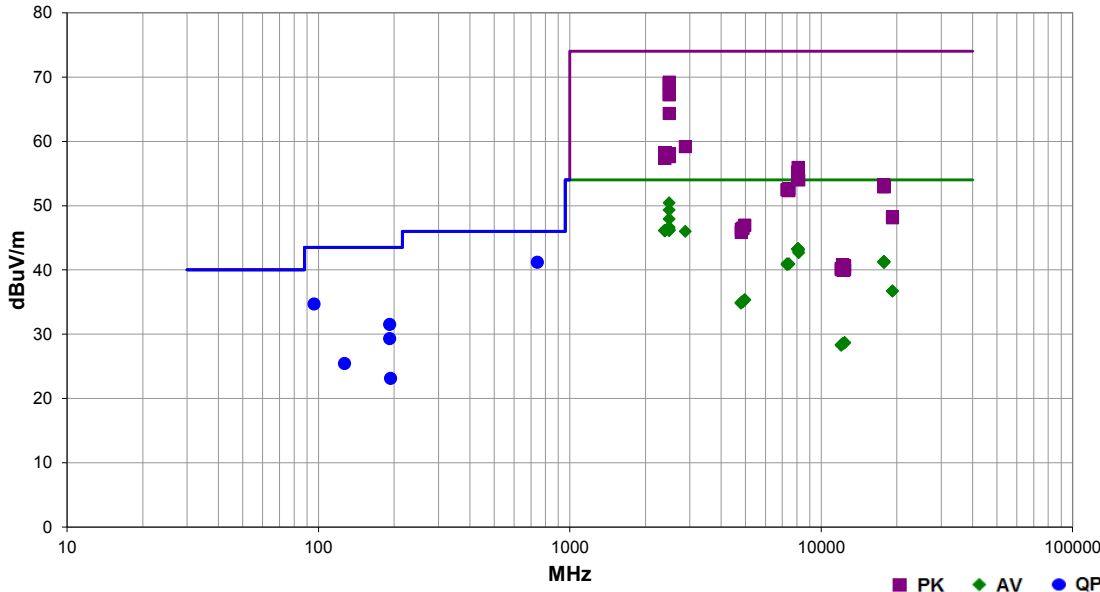
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
742.486	55.9	-13.4	1.2	241.0	3.0	0.0	Vert	QP	0.0	42.5	46.0	-3.5	DH5, Mid Ch, EUT Horizontal
96.008	67.7	-31.2	1.3	55.0	3.0	0.0	Vert	QP	0.0	36.5	43.5	-7.0	DH5, High Ch, EUT Horizontal
2483.850	31.4	-4.7	1.2	232.9	3.0	20.0	Horz	AV	0.0	46.7	54.0	-7.3	DH5, High Ch, EUT Vertical
2485.558	31.1	-4.7	1.2	320.0	3.0	20.0	Vert	AV	0.0	46.4	54.0	-7.6	DH5, High Ch, EUT Vertical
2483.817	31.0	-4.7	1.2	255.9	3.0	20.0	Horz	AV	0.0	46.3	54.0	-7.7	3DH5, High Ch, EUT Vertical
2483.575	30.9	-4.7	1.2	60.0	3.0	20.0	Horz	AV	0.0	46.2	54.0	-7.8	2DH5, High Ch, EUT Vertical
2390.742	30.9	-4.8	1.2	97.0	3.0	20.0	Horz	AV	0.0	46.1	54.0	-7.9	DH5, Low Ch, EUT Vertical
2388.792	30.9	-4.8	1.2	294.0	3.0	20.0	Horz	AV	0.0	46.1	54.0	-7.9	2DH5, Low Ch, EUT Vertical
2388.675	30.9	-4.8	1.2	163.0	3.0	20.0	Horz	AV	0.0	46.1	54.0	-7.9	3DH5, Low Ch, EUT Vertical
2485.258	30.8	-4.7	1.2	75.9	3.0	20.0	Horz	AV	0.0	46.1	54.0	-7.9	DH5, High Ch, EUT On Side
2485.217	30.8	-4.7	1.2	219.9	3.0	20.0	Vert	AV	0.0	46.1	54.0	-7.9	DH5, High Ch, EUT On Side
2485.267	30.7	-4.7	1.2	51.9	3.0	20.0	Vert	AV	0.0	46.0	54.0	-8.0	DH5, High Ch, EUT Horizontal
2484.308	30.7	-4.7	1.2	48.0	3.0	20.0	Horz	AV	0.0	46.0	54.0	-8.0	DH5, High Ch, EUT Horizontal
8043.818	29.7	15.5	1.2	349.0	3.0	0.0	Horz	AV	0.0	45.2	54.0	-8.8	2DH5, Low Ch, EUT Horizontal
8045.018	29.6	15.5	1.2	36.0	3.0	0.0	Horz	AV	0.0	45.1	54.0	-8.9	3DH5, Low Ch, EUT Horizontal
8045.005	28.2	15.5	1.2	241.0	3.0	0.0	Horz	AV	0.0	43.7	54.0	-10.3	DH5, Low Ch, EUT Horizontal
8041.430	27.9	15.5	1.2	247.0	3.0	0.0	Vert	AV	0.0	43.4	54.0	-10.6	DH5, Low Ch, EUT Vertical
8042.630	27.9	15.5	1.2	267.0	3.0	0.0	Horz	AV	0.0	43.4	54.0	-10.6	DH5, Low Ch, EUT Vertical
8042.722	27.9	15.5	1.2	355.0	3.0	0.0	Vert	AV	0.0	43.4	54.0	-10.6	DH5, Low Ch, EUT Horizontal
8043.105	27.9	15.5	1.2	93.0	3.0	0.0	Horz	AV	0.0	43.4	54.0	-10.6	DH5, Low Ch, EUT On Side
8028.468	27.8	15.6	3.8	144.0	3.0	0.0	Horz	AV	0.0	43.4	54.0	-10.6	DH5, High Ch, EUT Horizontal
8031.703	27.8	15.6	1.2	39.0	3.0	0.0	Vert	AV	0.0	43.4	54.0	-10.6	DH5, High Ch, EUT Vertical
8042.988	27.8	15.5	1.2	136.9	3.0	0.0	Vert	AV	0.0	43.3	54.0	-10.7	DH5, Low Ch, EUT On Side
17753.860	26.0	16.9	1.2	247.0	3.0	0.0	Horz	AV	0.0	42.9	54.0	-11.1	DH5, Mid Ch, EUT Horizontal
17756.030	26.0	16.9	1.2	267.9	3.0	0.0	Horz	AV	0.0	42.9	54.0	-11.1	DH5, Mid Ch, EUT Horizontal
17756.340	26.0	16.9	1.2	121.0	3.0	0.0	Horz	AV	0.0	42.9	54.0	-11.1	DH5, Mid Ch, EUT Vertical
17757.200	26.0	16.9	2.8	283.0	3.0	0.0	Horz	AV	0.0	42.9	54.0	-11.1	DH5, Mid Ch, EUT On Side
17758.800	26.0	16.9	1.2	279.9	3.0	0.0	Vert	AV	0.0	42.9	54.0	-11.1	DH5, Mid Ch, EUT Horizontal

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
17759.490	26.0	16.9	1.2	154.9	3.0	0.0	Vert	AV	0.0	42.9	54.0	-11.1	DH5, Mid Ch, EUT On Side
17759.660	26.0	16.9	1.2	360.0	3.0	0.0	Vert	AV	0.0	42.9	54.0	-11.1	DH5, Mid Ch, EUT Vertical
17756.770	25.9	16.9	1.2	57.9	3.0	0.0	Vert	AV	0.0	42.8	54.0	-11.2	DH5, Low Ch, EUT Horizontal
17718.970	25.9	16.9	1.2	249.9	3.0	0.0	Horz	AV	0.0	42.8	54.0	-11.2	DH5, Low Ch, EUT Horizontal
17862.670	26.0	16.5	1.2	117.9	3.0	0.0	Horz	AV	0.0	42.5	54.0	-11.5	DH5, High Ch, EUT Horizontal
17876.740	26.0	16.5	1.2	166.9	3.0	0.0	Vert	AV	0.0	42.5	54.0	-11.5	DH5, High Ch, EUT Horizontal
192.005	59.0	-28.3	1.5	175.0	3.0	0.0	Horz	QP	0.0	30.7	43.5	-12.8	DH5, Mid Ch, EUT Horizontal
7321.150	27.6	13.4	1.2	144.0	3.0	0.0	Vert	AV	0.0	41.0	54.0	-13.0	DH5, Mid Ch, EUT Vertical
7321.233	27.6	13.4	1.2	91.0	3.0	0.0	Horz	AV	0.0	41.0	54.0	-13.0	DH5, Mid Ch, EUT Horizontal
7439.358	27.5	13.4	1.2	190.9	3.0	0.0	Vert	AV	0.0	40.9	54.0	-13.1	DH5, High Ch, EUT Vertical
7439.992	27.4	13.4	1.2	8.0	3.0	0.0	Horz	AV	0.0	40.8	54.0	-13.2	DH5, High Ch, EUT Horizontal
192.007	57.3	-28.3	1.0	154.9	3.0	0.0	Vert	QP	0.0	29.0	43.5	-14.5	DH5, High Ch, EUT Horizontal
2485.833	43.9	-4.7	1.6	243.0	3.0	20.0	Horz	PK	0.0	59.2	74.0	-14.8	DH5, High Ch, EUT Vertical
192.007	56.7	-28.3	1.0	151.0	3.0	0.0	Vert	QP	0.0	28.4	43.5	-15.1	DH5, Low Ch, EUT Horizontal
2391.667	43.3	-4.8	1.2	332.0	3.0	20.0	Horz	PK	0.0	58.5	74.0	-15.5	2DH5, Low Ch, EUT Vertical
2483.942	42.9	-4.7	1.2	110.0	3.0	20.0	Vert	PK	0.0	58.2	74.0	-15.8	DH5, High Ch, EUT Horizontal
2391.008	42.9	-4.8	1.2	327.0	3.0	20.0	Horz	PK	0.0	58.1	74.0	-15.9	3DH5, Low Ch, EUT Vertical
2486.908	42.8	-4.7	1.2	345.9	3.0	20.0	Horz	PK	0.0	58.1	74.0	-15.9	3DH5, High Ch, EUT Vertical
2487.450	42.7	-4.7	1.2	33.9	3.0	20.0	Horz	PK	0.0	58.0	74.0	-16.0	DH5, High Ch, EUT Horizontal
2485.367	42.7	-4.7	1.2	279.0	3.0	20.0	Horz	PK	0.0	58.0	74.0	-16.0	DH5, High Ch, EUT On Side
2392.450	42.6	-4.8	1.2	81.9	3.0	20.0	Horz	PK	0.0	57.8	74.0	-16.2	DH5, Low Ch, EUT Vertical
2487.600	42.4	-4.7	1.1	106.9	3.0	20.0	Vert	PK	0.0	57.7	74.0	-16.3	DH5, High Ch, EUT On Side
2484.858	42.4	-4.7	2.7	91.0	3.0	20.0	Vert	PK	0.0	57.7	74.0	-16.3	DH5, Low Ch, EUT Horizontal
2484.408	42.2	-4.7	2.1	48.0	3.0	20.0	Horz	PK	0.0	57.5	74.0	-16.5	2DH5, High Ch, EUT Vertical
8046.177	41.9	15.5	1.2	349.0	3.0	0.0	Horz	PK	0.0	57.4	74.0	-16.6	2DH5, Low Ch, EUT Horizontal
19215.980	49.1	-12.3	1.3	8.0	3.0	0.0	Horz	AV	0.0	36.8	54.0	-17.2	DH5, Low Ch, EUT Horizontal
127.021	56.9	-30.7	1.0	27.9	3.0	0.0	Vert	QP	0.0	26.2	43.5	-17.3	DH5, Low Ch, EUT Horizontal
19215.480	49.0	-12.3	1.3	43.0	3.0	0.0	Vert	AV	0.0	36.7	54.0	-17.3	DH5, Low Ch, EUT Horizontal
8046.335	41.2	15.5	1.2	36.0	3.0	0.0	Horz	PK	0.0	56.7	74.0	-17.3	3DH5, Low Ch, EUT Horizontal
17757.660	38.6	16.9	2.8	283.0	3.0	0.0	Horz	PK	0.0	55.5	74.0	-18.5	DH5, Mid Ch, EUT On Side
8042.213	40.0	15.5	1.2	136.9	3.0	0.0	Vert	PK	0.0	55.5	74.0	-18.5	DH5, Low Ch, EUT On Side
4962.183	27.2	8.2	2.2	142.9	3.0	0.0	Vert	AV	0.0	35.4	54.0	-18.6	DH5, High Ch, EUT Vertical
4960.075	27.2	8.2	1.2	96.0	3.0	0.0	Horz	AV	0.0	35.4	54.0	-18.6	DH5, High Ch, EUT Horizontal
8024.302	39.7	15.6	3.8	144.0	3.0	0.0	Horz	PK	0.0	55.3	74.0	-18.7	DH5, High Ch, EUT Horizontal
8032.878	39.7	15.5	1.2	39.0	3.0	0.0	Vert	PK	0.0	55.2	74.0	-18.8	DH5, High Ch, EUT Vertical
8044.813	39.7	15.5	1.2	267.0	3.0	0.0	Horz	PK	0.0	55.2	74.0	-18.8	DH5, Low Ch, EUT Vertical
8041.013	39.6	15.5	1.2	93.0	3.0	0.0	Horz	PK	0.0	55.1	74.0	-18.9	DH5, Low Ch, EUT On Side
8041.347	39.6	15.5	1.2	247.0	3.0	0.0	Vert	PK	0.0	55.1	74.0	-18.9	DH5, Low Ch, EUT Vertical
17758.100	38.1	16.9	1.2	267.9	3.0	0.0	Horz	PK	0.0	55.0	74.0	-19.0	DH5, Mid Ch, EUT Horizontal
4878.533	27.0	8.0	1.2	177.9	3.0	0.0	Vert	AV	0.0	35.0	54.0	-19.0	DH5, Mid Ch, EUT Vertical
4877.533	27.0	8.0	1.2	351.9	3.0	0.0	Horz	AV	0.0	35.0	54.0	-19.0	DH5, Mid Ch, EUT Horizontal
8044.955	39.5	15.5	1.2	241.0	3.0	0.0	Horz	PK	0.0	55.0	74.0	-19.0	DH5, Low Ch, EUT Horizontal
17756.210	38.0	16.9	1.2	360.0	3.0	0.0	Vert	PK	0.0	54.9	74.0	-19.1	DH5, Mid Ch, EUT Vertical
8043.638	39.4	15.5	1.2	355.0	3.0	0.0	Vert	PK	0.0	54.9	74.0	-19.1	DH5, Low Ch, EUT Horizontal
17752.570	37.8	17.0	1.2	247.0	3.0	0.0	Horz	PK	0.0	54.8	74.0	-19.2	DH5, Mid Ch, EUT Horizontal
17758.630	37.8	16.9	1.2	279.9	3.0	0.0	Vert	PK	0.0	54.7	74.0	-19.3	DH5, Mid Ch, EUT Horizontal
4804.183	26.9	7.8	1.2	117.0	3.0	0.0	Horz	AV	0.0	34.7	54.0	-19.3	DH5, Low Ch, EUT Horizontal
4803.867	26.9	7.8	1.2	177.0	3.0	0.0	Vert	AV	0.0	34.7	54.0	-19.3	DH5, Low Ch, EUT Vertical
17879.020	38.2	16.5	1.2	166.9	3.0	0.0	Vert	PK	0.0	54.7	74.0	-19.3	DH5, High Ch, EUT Horizontal
17755.080	37.7	16.9	1.2	57.9	3.0	0.0	Vert	PK	0.0	54.6	74.0	-19.4	DH5, Low Ch, EUT Horizontal
17758.930	37.6	16.9	1.2	154.9	3.0	0.0	Vert	PK	0.0	54.5	74.0	-19.5	DH5, Mid Ch, EUT On Side
17759.230	37.5	16.9	1.2	121.0	3.0	0.0	Horz	PK	0.0	54.4	74.0	-19.6	DH5, Mid Ch, EUT Vertical
17718.310	37.5	16.9	1.2	249.9	3.0	0.0	Horz	PK	0.0	54.4	74.0	-19.6	DH5, Low Ch, EUT Horizontal
17860.410	37.4	16.5	1.2	117.9	3.0	0.0	Horz	PK	0.0	53.9	74.0	-20.1	DH5, High Ch, EUT Horizontal
7441.967	39.4	13.4	1.2	190.9	3.0	0.0	Vert	PK	0.0	52.8	74.0	-21.2	DH5, High Ch, EUT Vertical
7437.917	39.4	13.4	1.2	8.0	3.0	0.0	Horz	PK	0.0	52.8	74.0	-21.2	DH5, High Ch, EUT Horizontal
7321.850	39.4	13.4	1.2	91.0	3.0	0.0	Horz	PK	0.0	52.8	74.0	-21.2	DH5, Mid Ch, EUT Horizontal
7320.767	39.3	13.4	1.2	144.0	3.0	0.0	Vert	PK	0.0	52.7	74.0	-21.3	DH5, Mid Ch, EUT Vertical
12395.130	29.2	-0.4	2.7	170.0	3.0	0.0	Horz	AV	0.0	28.8	54.0	-25.2	DH5, Low Ch, EUT Vertical
19216.130	61.1	-12.3	1.3	8.0	3.0	0.0	Horz	PK	0.0	48.8	74.0	-25.2	DH5, Low Ch, EUT Horizontal
12394.130	29.0	-0.4	1.2	171.9	3.0	0.0	Vert	AV	0.0	28.6	54.0	-25.4	DH5, Low Ch, EUT Vertical
12398.880	28.9	-0.4	1.2	265.0	3.0	0.0	Vert	AV	0.0	28.5	54.0	-25.5	DH5, High Ch, EUT Vertical
12398.080	28.9	-0.4	1.2	321.9	3.0	0.0	Horz	AV	0.0	28.5	54.0	-25.5	DH5, High Ch, EUT Vertical
12396.770	28.9	-0.4	1.2	110.0	3.0	0.0	Vert	AV	0.0	28.5	54.0	-25.5	DH5, Low Ch, EUT On Side
12395.330	28.9	-0.4	1.2	286.9	3.0	0.0	Horz	AV	0.0	28.5	54.0	-25.5	DH5, Low Ch, EUT Horizontal
12393.950	28.9	-0.4	1.2	213.0	3.0	0.0	Horz	AV	0.0	28.5	54.0	-25.5	DH5, Low Ch, EUT On Side
12393.670	28.9	-0.4	1.2	252.0	3.0	0.0	Vert	AV	0.0	28.5	54.0	-25.5	DH5, Low Ch, EUT Horizontal
12200.500	29.2	-0.8	1.2	78.0	3.0	0.0	Vert	AV	0.0	28.4	54.0	-25.6	DH5, Mid Ch, EUT Vertical
19217.930	60.7	-12.3	1.3	43.0	3.0	0.0	Vert	PK	0.0	48.4	74.0	-25.6	DH5, Low Ch, EUT Horizontal
12200.920	29.1	-0.8	2.8	135.0	3.0	0.0	Horz	AV	0.0	28.3	54.0	-25.7	DH5, Mid Ch, EUT Vertical
12009.350	29.6	-1.3	1.2	241.0	3.0	0.0	Vert	AV	0.0	28.3	54.0	-25.7	DH5, Low Ch, EUT Vertical
12009.120	29.5	-1.3	1.2	356.0	3.0	0.0	Horz	AV	0.0	28.2	54.0	-25.8	DH5, Low Ch, EUT Vertical
4962.483	39.1	8.2	2.2	142.9	3.0	0.0	Vert	PK	0.0	47.3	74.0	-26.7	DH5, High Ch, EUT Vertical
4881.242	39.0	8.0	1.2	351.9	3.0	0.0	Horz	PK	0.0	47.0	74.0	-27.0	DH5, Mid Ch, EUT Horizontal
4958.433	38.5	8.2	1.2	96.0	3.0	0.0	Horz	PK	0.0	46.7	74.0	-27.3	DH5, High Ch, EUT Horizontal
4879.992	38.3	8.0	1.2	177.9	3.0	0.0	Vert	PK	0.0	46.3	74.0	-27.7	DH5, Mid Ch, EUT Vertical
4801.858	38.5	7.8	1.2	117.0	3.0	0.0	Horz	PK	0.0	46.3	74.0	-27.7	DH5, Low Ch, EUT Horizontal
4803.108	38.3	7.8	1.2	177.0	3.0	0.0	Vert	PK	0.0	46.1	74.0	-27.9	DH5, Low Ch, EUT Vertical
12398.260	40.8	-0.4	1.2	321.9	3.0	0.0	Horz	PK	0.0	40.4	74.0	-33.6	DH5, High Ch, EUT Vertical
12396.160	40.8	-0.4	2.7	170.0	3.0	0.0	Horz	PK	0.0	40.4	74.0	-33.6	DH5, Low Ch, EUT Vertical
12395.370	40.6	-0.4	1.2	171.9	3.0	0.0	Vert	PK	0.0	40.2	74.0	-33.8	DH5, Low Ch, EUT Vertical
12398.200	40.5	-0.4	1.2	110.0	3.0	0.0	Vert	PK	0.0	40.1	74.0	-33.9	DH5, Low Ch, EUT On Side
12398.040	40.5	-0.4	1.2	265.0	3.0	0.0	Vert	PK	0.0	40.1	74.0	-33.9	DH5, High Ch, EUT Vertical
12394.960	40.5	-0.4	1.2	286.9	3.0	0.0	Horz	PK	0.0	40.1	74.0	-33.9	DH5, Low Ch, EUT Horizontal
12394.390	40.4	-0.4	1.2	252.0	3.0	0.0	Vert	PK	0.0	40.0	74.0	-34.0	DH5, Low Ch, EUT Horizontal
12393.880	40.4	-0.4	1.2	213.0	3.0	0.0	Horz	PK	0.0	40.0	74.0	-34.0	DH5, Low Ch, EUT On Side
12198.870	40.8	-0.8	2.8	135.0	3.0	0.0	Horz	PK	0.0	40.0	74.0	-34.0	DH5, Mid Ch, EUT Vertical
12011.220	41.2	-1.3	1.2	356.0	3.0	0.0	Horz	PK	0.0	39.9	74.0	-34.1	DH5, Low Ch, EUT Vertical
12008.310	41.0	-1.3	1.2	241.0	3.0	0.0	Vert	PK	0.0	39.7	74.0	-34.3	DH5, Low Ch, EUT Vertical
12201.840	40.4	-0.8	1.2	78.0	3.0	0.0	Vert	PK	0.0	39.6	74.0	-34.4	DH5, Mid Ch, EUT Vertical

Work Order:	ETHE0018	Date:	01/09/15		
Project:	None	Temperature:	22.1 °C		
Job Site:	TX02	Humidity:	15.4% RH		
Serial Number:	00409D 7C03D2	Barometric Pres.:	1035 mbar	Tested by:	Jonathan Kiefer
EUT:	ConnectCore i.MX6 Wi-Fi/Bluetooth				
Configuration:	4				
Customer:	Etherios Design Solutions				
Attendees:	None				
EUT Power:	5VDC				
Operating Mode:	Transmitting DH5, 2DH5, 3DH5. Low, Mid, High Channel @ 2402, 2440, 2480 MHz.				
Deviations:	None				
Comments:	None				

Test Specifications	Test Method
FCC 15.247:2015	ANSI C63.10:2009

Run #	61	Test Distance (m)	3	Antenna Height(s)	1 to 4(m)	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
2483.082	35.1	-4.7	3.5	225.9	3.0	20.0	Horz	AV	0.0	50.4	54.0	-3.6	3DH5, High Channel, EUT Vertical
2483.192	34.0	-4.7	1.2	127.0	3.0	20.0	Horz	AV	0.0	49.3	54.0	-4.7	DH5, High Channel, EUT Vertical
2483.117	53.9	-4.7	1.2	127.0	3.0	20.0	Horz	PK	0.0	69.2	74.0	-4.8	DH5, High Channel, EUT Vertical
742.486	54.6	-13.4	1.0	230.0	3.0	0.0	Vert	QP	0.0	41.2	46.0	-4.8	DH5, Mid Ch, EUT Horizontal
2483.023	53.7	-4.7	1.7	284.0	3.0	20.0	Horz	PK	0.0	69.0	74.0	-5.0	DH5, High Channel, EUT On Side
2483.175	32.6	-4.7	4.0	21.0	3.0	20.0	Vert	AV	0.0	47.9	54.0	-6.1	DH5, High Channel, EUT Vertical
2483.345	52.0	-4.7	4.0	21.0	3.0	20.0	Vert	PK	0.0	67.3	74.0	-6.7	DH5, High Channel, EUT Vertical
2483.535	51.9	-4.7	3.5	225.9	3.0	20.0	Horz	PK	0.0	67.2	74.0	-6.8	3DH5, High Channel, EUT Vertical
2483.247	31.3	-4.7	1.2	45.0	3.0	20.0	Vert	AV	0.0	46.6	54.0	-7.4	DH5, High Channel, EUT Horizontal
2483.355	31.0	-4.7	1.2	278.0	3.0	20.0	Vert	AV	0.0	46.3	54.0	-7.7	DH5, High Channel, EUT On Side
2483.570	30.9	-4.7	1.2	50.0	3.0	20.0	Horz	AV	0.0	46.2	54.0	-7.8	DH5, High Channel, EUT Horizontal
2390.458	30.9	-4.8	1.2	33.9	3.0	20.0	Horz	AV	0.0	46.1	54.0	-7.9	DH5, Low Channel, EUT Vertical
2390.358	30.9	-4.8	1.2	285.0	3.0	20.0	Horz	AV	0.0	46.1	54.0	-7.9	2DH5, Low Channel, EUT Vertical
2390.060	30.9	-4.8	1.6	150.0	3.0	20.0	Horz	AV	0.0	46.1	54.0	-7.9	3DH5, Low Channel, EUT Vertical
2389.670	30.9	-4.8	1.2	187.0	3.0	20.0	Vert	AV	0.0	46.1	54.0	-7.9	2DH5, Low Channel, EUT Vertical
2389.535	30.9	-4.8	3.0	308.0	3.0	20.0	Vert	AV	0.0	46.1	54.0	-7.9	3DH5, Low Channel, EUT Vertical
2483.452	30.8	-4.7	1.2	21.0	3.0	20.0	Horz	AV	0.0	46.1	54.0	-7.9	2DH5, High Channel, EUT Vertical
2483.287	30.8	-4.7	1.7	284.0	3.0	20.0	Horz	AV	0.0	46.1	54.0	-7.9	DH5, High Channel, EUT On Side
2389.873	30.8	-4.8	3.8	286.9	3.0	20.0	Vert	AV	0.0	46.0	54.0	-8.0	DH5, Low Channel, EUT Vertical
2877.763	28.6	-2.6	1.2	297.0	3.0	20.0	Horz	AV	0.0	46.0	54.0	-8.0	DH5, Low Channel, EUT Horizontal
96.010	65.9	-31.2	1.0	72.0	3.0	0.0	Vert	QP	0.0	34.7	43.5	-8.8	DH5, High Ch, EUT Horizontal
2483.370	49.0	-4.7	1.2	278.0	3.0	20.0	Vert	PK	0.0	64.3	74.0	-9.7	DH5, High Channel, EUT On Side
8079.400	28.0	15.3	1.2	157.0	3.0	0.0	Horz	AV	0.0	43.3	54.0	-10.7	DH5, Mid Ch, EUT Vertical
8080.325	28.0	15.3	1.2	208.9	3.0	0.0	Horz	AV	0.0	43.3	54.0	-10.7	DH5, Mid Ch, EUT On Side
8080.692	28.0	15.3	1.2	108.0	3.0	0.0	Vert	AV	0.0	43.3	54.0	-10.7	DH5, Mid Ch, EUT Horizontal
8081.158	28.0	15.3	1.2	109.0	3.0	0.0	Vert	AV	0.0	43.3	54.0	-10.7	DH5, Mid Ch, EUT Vertical
8081.275	28.0	15.3	1.2	169.0	3.0	0.0	Vert	AV	0.0	43.3	54.0	-10.7	DH5, Mid Ch, EUT On Side
8082.225	28.0	15.2	1.2	145.0	3.0	0.0	Horz	AV	0.0	43.2	54.0	-10.8	DH5, Mid Ch, EUT Horizontal

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
8082.250	28.0	15.2	1.2	73.0	3.0	0.0	Vert	AV	0.0	43.2	54.0	-10.8	DH5, Mid Ch, EUT On Side
8083.155	28.0	15.2	1.3	243.0	3.0	0.0	Horz	AV	0.0	43.2	54.0	-10.8	3DH5, Mid Channel, EUT Horizontal
8083.125	27.9	15.2	1.2	309.0	3.0	0.0	Horz	AV	0.0	43.1	54.0	-10.9	DH5, Mid Ch, EUT Horizontal
8083.788	27.9	15.2	2.4	3.0	3.0	0.0	Horz	AV	0.0	43.1	54.0	-10.9	2DH5, Mid Channel, EUT Horizontal
8107.202	27.9	15.1	1.2	12.0	3.0	0.0	Vert	AV	0.0	43.0	54.0	-11.0	DH5, Low Ch, EUT On Side
8140.772	27.8	14.9	1.2	279.0	3.0	0.0	Horz	AV	0.0	42.7	54.0	-11.3	DH5, Low Ch, EUT Horizontal
192.005	59.8	-28.3	1.7	177.0	3.0	0.0	Horz	QP	0.0	31.5	43.5	-12.0	DH5, Mid Ch, EUT Horizontal
17760.260	24.4	16.9	1.2	54.0	3.0	0.0	Vert	AV	0.0	41.3	54.0	-12.7	DH5, Mid Channel, EUT On Side
17760.870	24.4	16.9	1.2	292.9	3.0	0.0	Vert	AV	0.0	41.3	54.0	-12.7	DH5, Low Channel, EUT On Side
17766.900	24.4	16.9	1.2	54.0	3.0	0.0	Vert	AV	0.0	41.3	54.0	-12.7	DH5, High Channel, EUT On Side
17810.470	24.5	16.7	1.3	198.0	3.0	0.0	Horz	AV	0.0	41.2	54.0	-12.8	DH5, High Channel, EUT Horizontal
17734.680	24.2	17.0	2.4	122.0	3.0	0.0	Horz	AV	0.0	41.2	54.0	-12.8	DH5, Low Channel, EUT Horizontal
17779.060	24.3	16.9	1.2	93.9	3.0	0.0	Horz	AV	0.0	41.2	54.0	-12.8	DH5, Mid Channel, EUT Horizontal
7321.908	27.6	13.4	3.6	171.0	3.0	0.0	Vert	AV	0.0	41.0	54.0	-13.0	DH5, Mid Ch, EUT On Side
7440.650	27.5	13.4	1.2	274.9	3.0	0.0	Vert	AV	0.0	40.9	54.0	-13.1	DH5, High Ch, EUT On Side
7437.750	27.5	13.4	1.2	298.9	3.0	0.0	Horz	AV	0.0	40.9	54.0	-13.1	DH5, High Ch, EUT Horizontal
7320.467	27.5	13.4	1.2	67.0	3.0	0.0	Horz	AV	0.0	40.9	54.0	-13.1	DH5, Mid Ch, EUT Horizontal
192.005	57.6	-28.3	1.0	160.9	3.0	0.0	Vert	QP	0.0	29.3	43.5	-14.2	DH5, High Ch, EUT Horizontal
2878.605	41.8	-2.6	1.2	297.0	3.0	20.0	Horz	PK	0.0	59.2	74.0	-14.8	DH5, Low Channel, EUT Horizontal
2390.485	43.0	-4.8	1.6	150.0	3.0	20.0	Horz	PK	0.0	58.2	74.0	-15.8	3DH5, Low Channel, EUT Vertical
2390.433	43.0	-4.8	1.2	33.9	3.0	20.0	Horz	PK	0.0	58.2	74.0	-15.8	DH5, Low Channel, EUT Vertical
2390.310	42.9	-4.8	1.2	285.0	3.0	20.0	Horz	PK	0.0	58.1	74.0	-15.9	2DH5, Low Channel, EUT Vertical
2389.640	42.8	-4.8	3.0	308.0	3.0	20.0	Vert	PK	0.0	58.0	74.0	-16.0	3DH5, Low Channel, EUT Vertical
2483.540	42.7	-4.7	1.2	21.0	3.0	20.0	Horz	PK	0.0	58.0	74.0	-16.0	2DH5, High Channel, EUT Vertical
2389.537	42.6	-4.8	1.2	187.0	3.0	20.0	Vert	PK	0.0	57.8	74.0	-16.2	2DH5, Low Channel, EUT Vertical
2483.325	42.4	-4.7	1.2	50.0	3.0	20.0	Horz	PK	0.0	57.7	74.0	-16.3	DH5, High Channel, EUT Horizontal
2483.945	42.3	-4.7	1.2	45.0	3.0	20.0	Vert	PK	0.0	57.6	74.0	-16.4	DH5, High Channel, EUT Horizontal
2390.045	42.1	-4.8	3.8	286.9	3.0	20.0	Vert	PK	0.0	57.3	74.0	-16.7	DH5, Low Channel, EUT Vertical
19214.060	49.0	-12.3	1.3	76.9	3.0	0.0	Horz	AV	0.0	36.7	54.0	-17.3	DH5, Low Ch, EUT Horizontal
19215.650	49.0	-12.3	1.3	157.0	3.0	0.0	Vert	AV	0.0	36.7	54.0	-17.3	DH5, Low Ch, EUT Horizontal
127.016	56.1	-30.7	1.0	12.0	3.0	0.0	Vert	QP	0.0	25.4	43.5	-18.1	DH5, Low Ch, EUT Horizontal
8082.475	40.7	15.2	1.2	145.0	3.0	0.0	Horz	PK	0.0	55.9	74.0	-18.1	DH5, Mid Ch, EUT Horizontal
4962.450	27.1	8.2	4.0	148.9	3.0	0.0	Horz	AV	0.0	35.3	54.0	-18.7	DH5, High Ch, EUT Horizontal
4962.433	27.1	8.2	1.2	109.0	3.0	0.0	Vert	AV	0.0	35.3	54.0	-18.7	DH5, High Ch, EUT On Side
8104.243	40.2	15.1	1.2	12.0	3.0	0.0	Vert	PK	0.0	55.3	74.0	-18.7	DH5, Low Ch, EUT On Side
8079.425	39.9	15.3	1.2	309.0	3.0	0.0	Horz	PK	0.0	55.2	74.0	-18.8	DH5, Mid Ch, EUT Horizontal
4877.517	27.1	8.0	1.6	222.0	3.0	0.0	Horz	AV	0.0	35.1	54.0	-18.9	DH5, Mid Ch, EUT Horizontal
8081.425	39.8	15.3	1.2	169.0	3.0	0.0	Vert	PK	0.0	55.1	74.0	-18.9	DH5, Mid Ch, EUT On Side
4878.267	27.0	8.0	1.2	135.0	3.0	0.0	Vert	AV	0.0	35.0	54.0	-19.0	DH5, Mid Ch, On Side
4801.500	27.1	7.8	1.2	264.0	3.0	0.0	Vert	AV	0.0	34.9	54.0	-19.1	DH5, Low Ch, On Side
4801.708	27.0	7.8	2.8	99.0	3.0	0.0	Horz	AV	0.0	34.8	54.0	-19.2	DH5, Low Ch, EUT Horizontal
8079.625	39.5	15.3	1.2	208.9	3.0	0.0	Horz	PK	0.0	54.8	74.0	-19.2	DH5, Mid Ch, EUT On Side
8084.622	39.5	15.2	1.3	243.0	3.0	0.0	Horz	PK	0.0	54.7	74.0	-19.3	3DH5, Mid Channel, EUT Horizontal
8080.925	39.4	15.3	1.2	73.0	3.0	0.0	Vert	PK	0.0	54.7	74.0	-19.3	DH5, Mid Ch, EUT On Side
8082.442	39.4	15.2	1.2	108.0	3.0	0.0	Vert	PK	0.0	54.6	74.0	-19.4	DH5, Mid Ch, EUT Horizontal
8082.975	39.4	15.2	1.2	109.0	3.0	0.0	Vert	PK	0.0	54.6	74.0	-19.4	DH5, Mid Ch, EUT Vertical
8084.480	39.4	15.2	2.4	3.0	3.0	0.0	Horz	PK	0.0	54.6	74.0	-19.4	2DH5, Mid Channel, EUT Horizontal
8080.308	39.2	15.3	1.2	157.0	3.0	0.0	Horz	PK	0.0	54.5	74.0	-19.5	DH5, Mid Ch, EUT Vertical
8140.055	39.1	14.9	1.2	279.0	3.0	0.0	Horz	PK	0.0	54.0	74.0	-20.0	DH5, Low Ch, EUT Horizontal
193.627	51.3	-28.2	1.0	304.9	3.0	0.0	Vert	QP	0.0	23.1	43.5	-20.4	DH5, Low Ch, EUT Horizontal
17736.370	36.2	17.0	2.4	122.0	3.0	0.0	Horz	PK	0.0	53.2	74.0	-20.8	DH5, Low Channel, EUT Horizontal
17779.080	36.3	16.9	1.2	93.9	3.0	0.0	Horz	PK	0.0	53.2	74.0	-20.8	DH5, Mid Channel, EUT Horizontal
17760.270	36.2	16.9	1.2	54.0	3.0	0.0	Vert	PK	0.0	53.1	74.0	-20.9	DH5, Mid Channel, EUT On Side
17807.410	36.3	16.7	1.3	198.0	3.0	0.0	Horz	PK	0.0	53.0	74.0	-21.0	DH5, High Channel, EUT Horizontal
17765.470	36.1	16.9	1.2	54.0	3.0	0.0	Vert	PK	0.0	53.0	74.0	-21.0	DH5, High Channel, EUT On Side
17761.570	36.0	16.9	1.2	292.9	3.0	0.0	Vert	PK	0.0	52.9	74.0	-21.1	DH5, Low Channel, EUT On Side
7437.925	39.2	13.4	1.2	298.9	3.0	0.0	Horz	PK	0.0	52.6	74.0	-21.4	DH5, High Ch, EUT Horizontal
7320.675	39.1	13.4	1.2	67.0	3.0	0.0	Horz	PK	0.0	52.5	74.0	-21.5	DH5, Mid Ch, EUT Horizontal
7318.658	39.1	13.4	3.6	171.0	3.0	0.0	Vert	PK	0.0	52.5	74.0	-21.5	DH5, Mid Ch, EUT On Side
7440.517	38.9	13.4	1.2	274.9	3.0	0.0	Vert	PK	0.0	52.3	74.0	-21.7	DH5, High Ch, EUT On Side
12399.780	29.1	-0.4	2.4	160.9	3.0	0.0	Horz	AV	0.0	28.7	54.0	-25.3	DH5, High Channel, EUT Horizontal
12399.760	29.0	-0.4	1.2	333.9	3.0	0.0	Vert	AV	0.0	28.6	54.0	-25.4	DH5, High Channel, EUT On Side
12201.280	29.3	-0.8	1.2	129.9	3.0	0.0	Horz	AV	0.0	28.5	54.0	-25.5	DH5, Mid Channel, EUT Horizontal
12200.560	29.3	-0.8	1.2	112.9	3.0	0.0	Vert	AV	0.0	28.5	54.0	-25.5	DH5, Mid Channel, EUT On Side
12007.630	29.7	-1.3	1.8	75.9	3.0	0.0	Horz	AV	0.0	28.4	54.0	-25.6	DH5, Low Channel, EUT Horizontal
19215.580	60.6	-12.3	1.3	157.0	3.0	0.0	Vert	PK	0.0	48.3	74.0	-25.7	DH5, Low Ch, EUT Horizontal
12008.220	29.6	-1.3	1.2	202.9	3.0	0.0	Vert	AV	0.0	28.3	54.0	-25.7	DH5, Low Channel, EUT On Side
19214.100	60.4	-12.3	1.3	76.9	3.0	0.0	Horz	PK	0.0	48.1	74.0	-25.9	DH5, Low Ch, EUT Horizontal
4961.842	38.7	8.2	1.2	109.0	3.0	0.0	Vert	PK	0.0	46.9	74.0	-27.1	DH5, High Ch, EUT On Side
4960.967	38.7	8.2	4.0	148.9	3.0	0.0	Horz	PK	0.0	46.9	74.0	-27.1	DH5, High Ch, EUT Horizontal
4877.750	38.5	8.0	1.6	222.0	3.0	0.0	Horz	PK	0.0	46.5	74.0	-27.5	DH5, Mid Ch, EUT Horizontal
4879.400	38.4	8.0	1.2	135.0	3.0	0.0	Vert	PK	0.0	46.4	74.0	-27.6	DH5, Mid Ch, EUT On Side
4805.467	38.5	7.8	1.2	264.0	3.0	0.0	Vert	PK	0.0	46.3	74.0	-27.7	DH5, Low Ch, On Side
4804.892	38.0	7.8	2.8	99.0	3.0	0.0	Horz	PK	0.0	45.8	74.0	-28.2	DH5, Low Ch, EUT Horizontal
12197.760	41.6	-0.8	1.2	112.9	3.0	0.0	Vert	PK	0.0	40.8	74.0	-33.2	DH5, Mid Channel, EUT On Side
12399.630	41.0	-0.4	1.2	333.9	3.0	0.0	Vert	PK	0.0	40.6	74.0	-33.4	DH5, High Channel, EUT On Side
12009.780	41.6	-1.3	1.2	202.9	3.0	0.0	Vert	PK	0.0	40.3	74.0	-33.7	DH5, Low Channel, EUT On Side
12008.180	41.4	-1.3	1.8	75.9	3.0	0.0	Horz	PK	0.0	40.1	74.0	-33.9	DH5, Low Channel, EUT Horizontal
12398.410	40.4	-0.4	2.4	160.9	3.0	0.0	Horz	PK	0.0	40.0	74.0	-34.0	DH5, High Channel, EUT Horizontal
12199.760	40.7	-0.8	1.2	129.9	3.0	0.0	Horz	PK	0.0	39.9	74.0	-34.1	DH5, Mid Channel, EUT Horizontal

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.

TEST EQUIPMENT

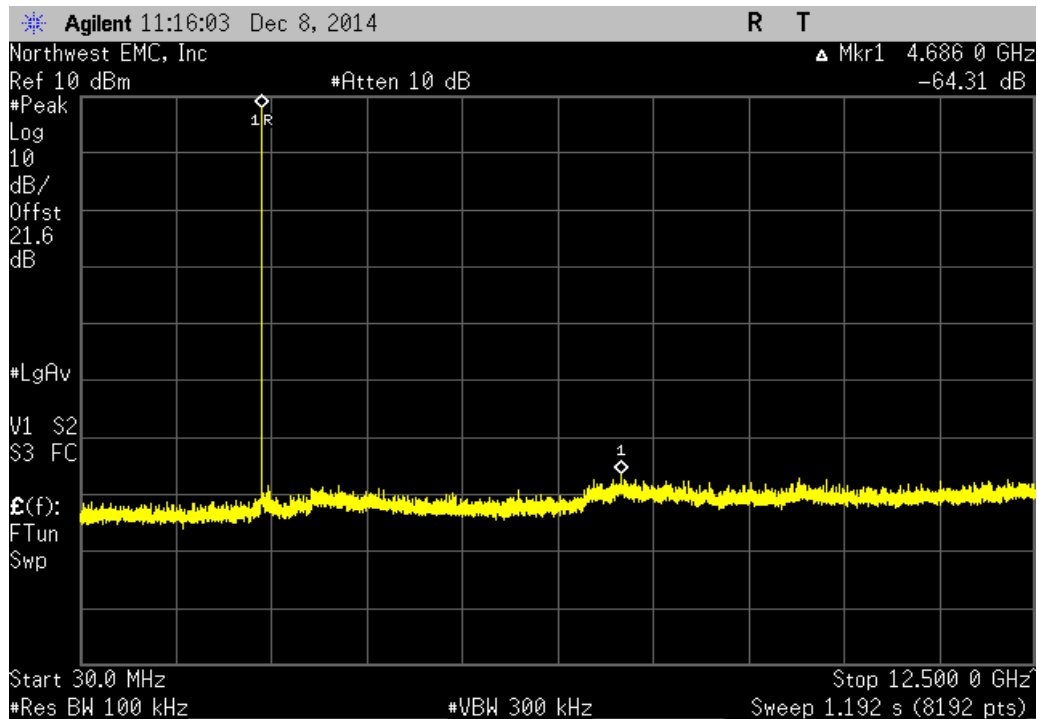
Description	Manufacturer	Model	ID	Last Cal.	Interval (mos)
MN08 Direct Connect Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNU	10/2/2014	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC Block	Fairview Microwave	SD3379	AMI	10/2/2014	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	8/12/2014	36
Spectrum Analyzer	Agilent	E4440A	AAX	4/28/2014	12

TEST DESCRIPTION

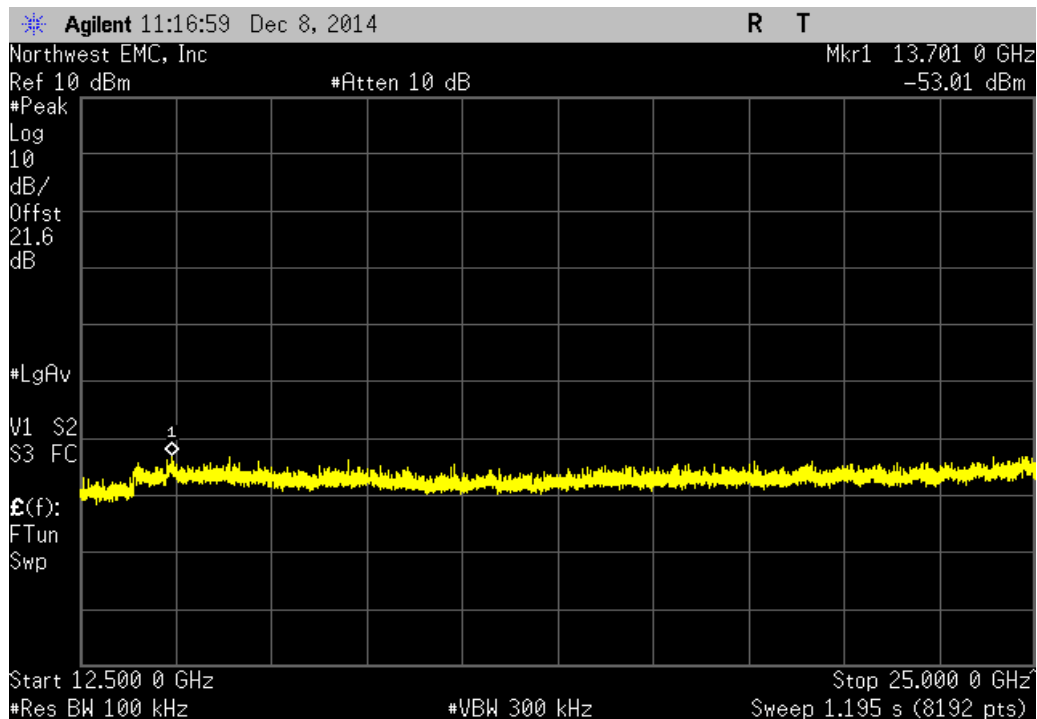
The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet in a no-hop mode. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

EUT: ConnectCore i.MX6 WiFi/Bluetooth		Work Order: ETHE0018	
Serial Number: 00409D 7C03D2		Date: 12/08/14	
Customer: Etherios Design Solutions		Temperature: 22°C	
Attendees: None		Humidity: 22%	
Project: None		Barometric Pres.: 1019.6	
Tested by: Trevor Buls		Power: 5VDC	
Job Site: MN08			
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2015		ANSI C63.10:2009	
COMMENTS			
None			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature <i>Trevor Buls</i>	
		Frequency Range	Value (dBc)
		Limit ≤ (dBc)	Result
No-Hop Mode			
DH5, GFSK			
	Low Channel, 2402 MHz	30 MHz - 12.5 GHz	-64.31
	Low Channel, 2402 MHz	12.5 GHz - 25 GHz	-60.99
	Mid Channel, 2440 MHz	30 MHz - 12.5 GHz	-64.06
	Mid Channel, 2440 MHz	12.5 GHz - 25 GHz	-59.71
	High Channel, 2480 MHz	30 MHz - 12.5 GHz	-64.05
	High Channel, 2480 MHz	12.5 GHz - 25 GHz	-59.68
2DH5, pi/4-DQPSK			
	Low Channel, 2402 MHz	30 MHz - 12.5 GHz	-62.26
	Low Channel, 2402 MHz	12.5 GHz - 25 GHz	-59.09
	Mid Channel, 2440 MHz	30 MHz - 12.5 GHz	-62.03
	Mid Channel, 2440 MHz	12.5 GHz - 25 GHz	-59
	High Channel, 2480 MHz	30 MHz - 12.5 GHz	-64.04
	High Channel, 2480 MHz	12.5 GHz - 25 GHz	-60.46
3DH5, 8-DPSK			
	Low Channel, 2402 MHz	30 MHz - 12.5 GHz	-65.02
	Low Channel, 2402 MHz	12.5 GHz - 25 GHz	-60.07
	Mid Channel, 2440 MHz	30 MHz - 12.5 GHz	-64.27
	Mid Channel, 2440 MHz	12.5 GHz - 25 GHz	-60.65
	High Channel, 2480 MHz	30 MHz - 12.5 GHz	-63.8
	High Channel, 2480 MHz	12.5 GHz - 25 GHz	-60.33

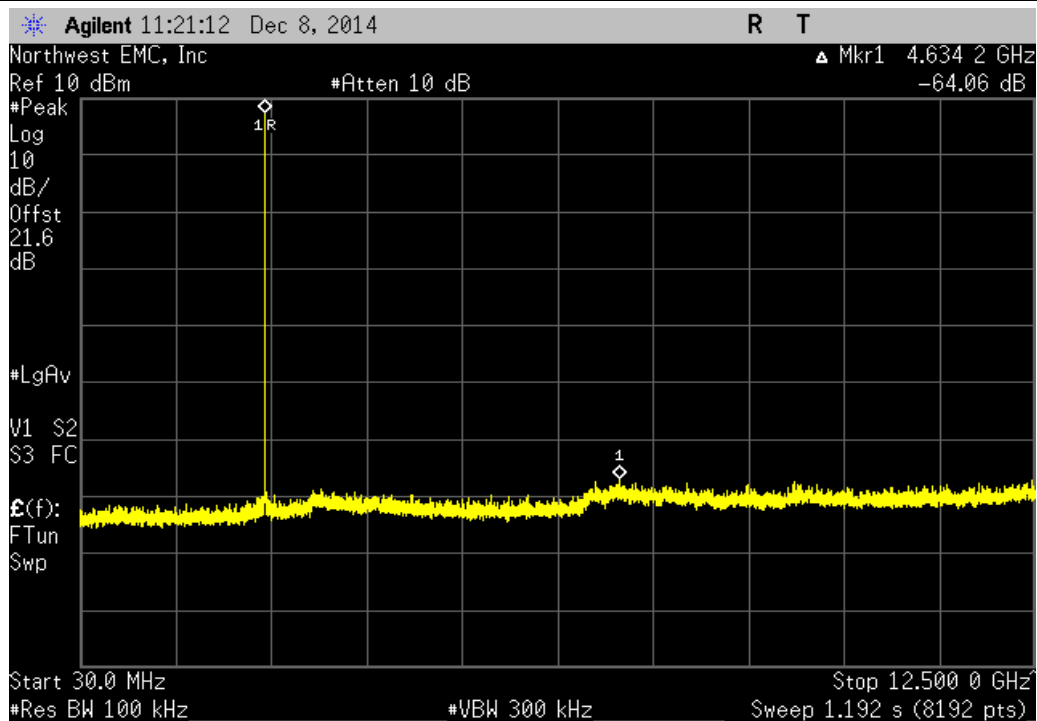
No-Hop Mode, DH5, GFSK, Low Channel, 2402 MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	-64.31	-20	Pass	



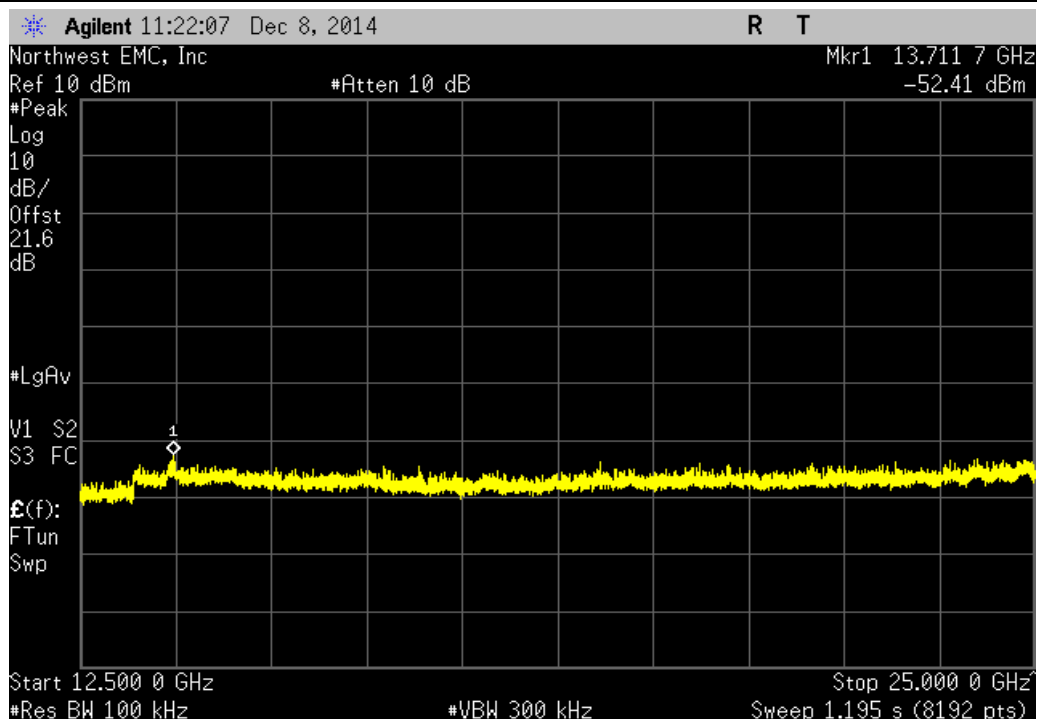
No-Hop Mode, DH5, GFSK, Low Channel, 2402 MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-60.99	-20	Pass	



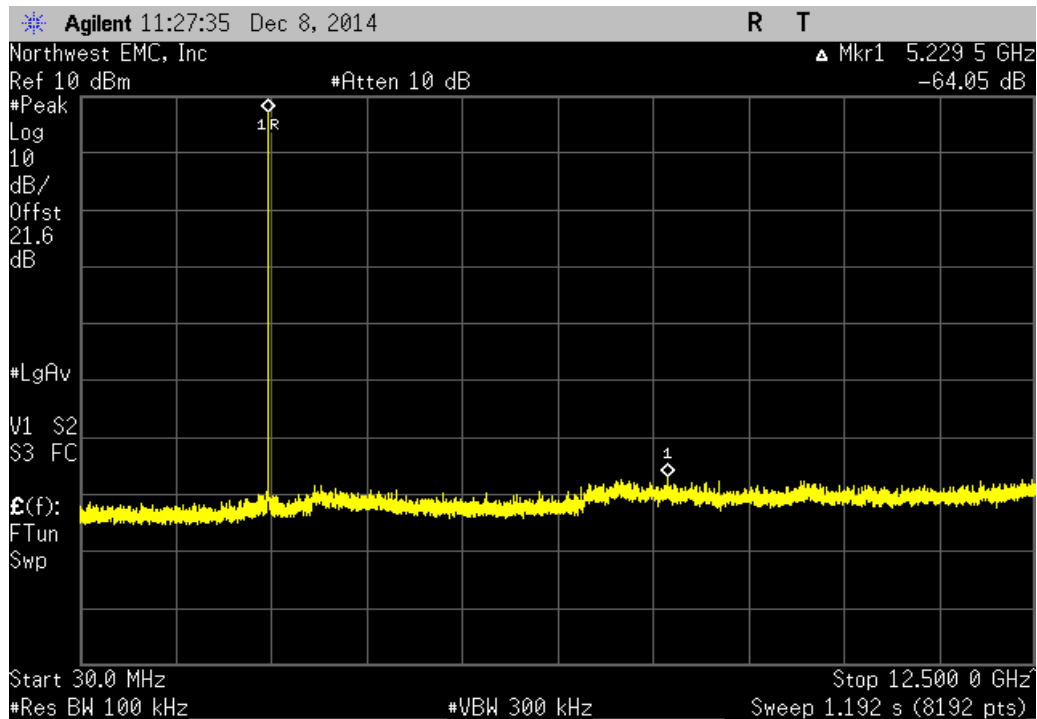
No-Hop Mode, DH5, GFSK, Mid Channel, 2440 MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	-64.06	-20	Pass	



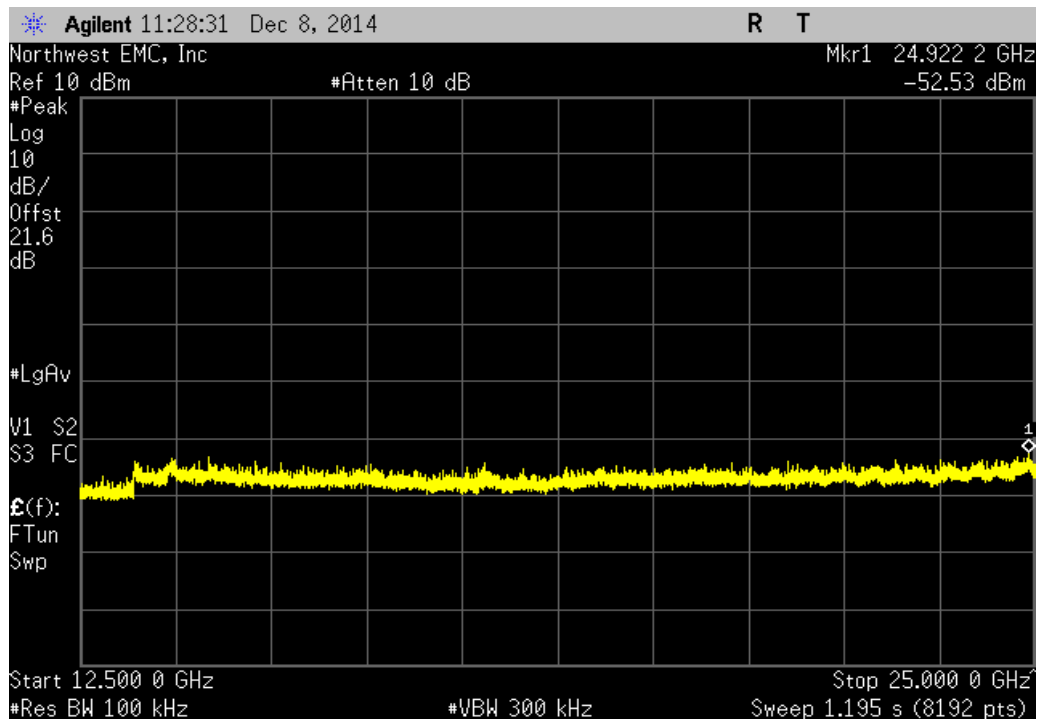
No-Hop Mode, DH5, GFSK, Mid Channel, 2440 MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-59.71	-20	Pass	



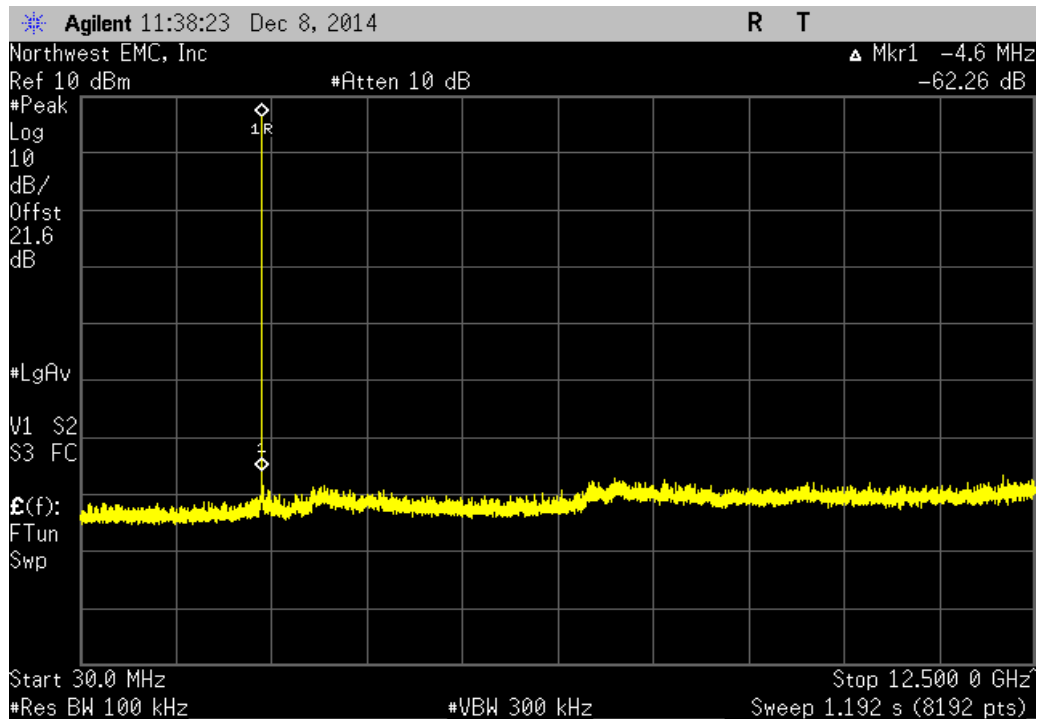
No-Hop Mode, DH5, GFSK, High Channel, 2480 MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	-64.05	-20	Pass	



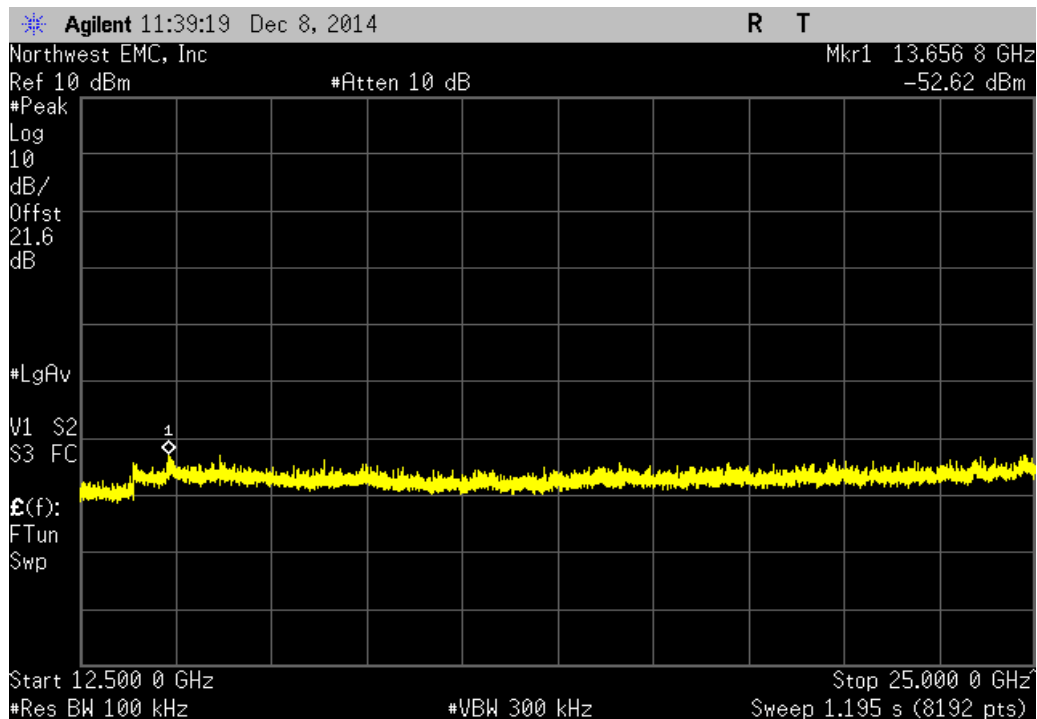
No-Hop Mode, DH5, GFSK, High Channel, 2480 MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-59.68	-20	Pass	

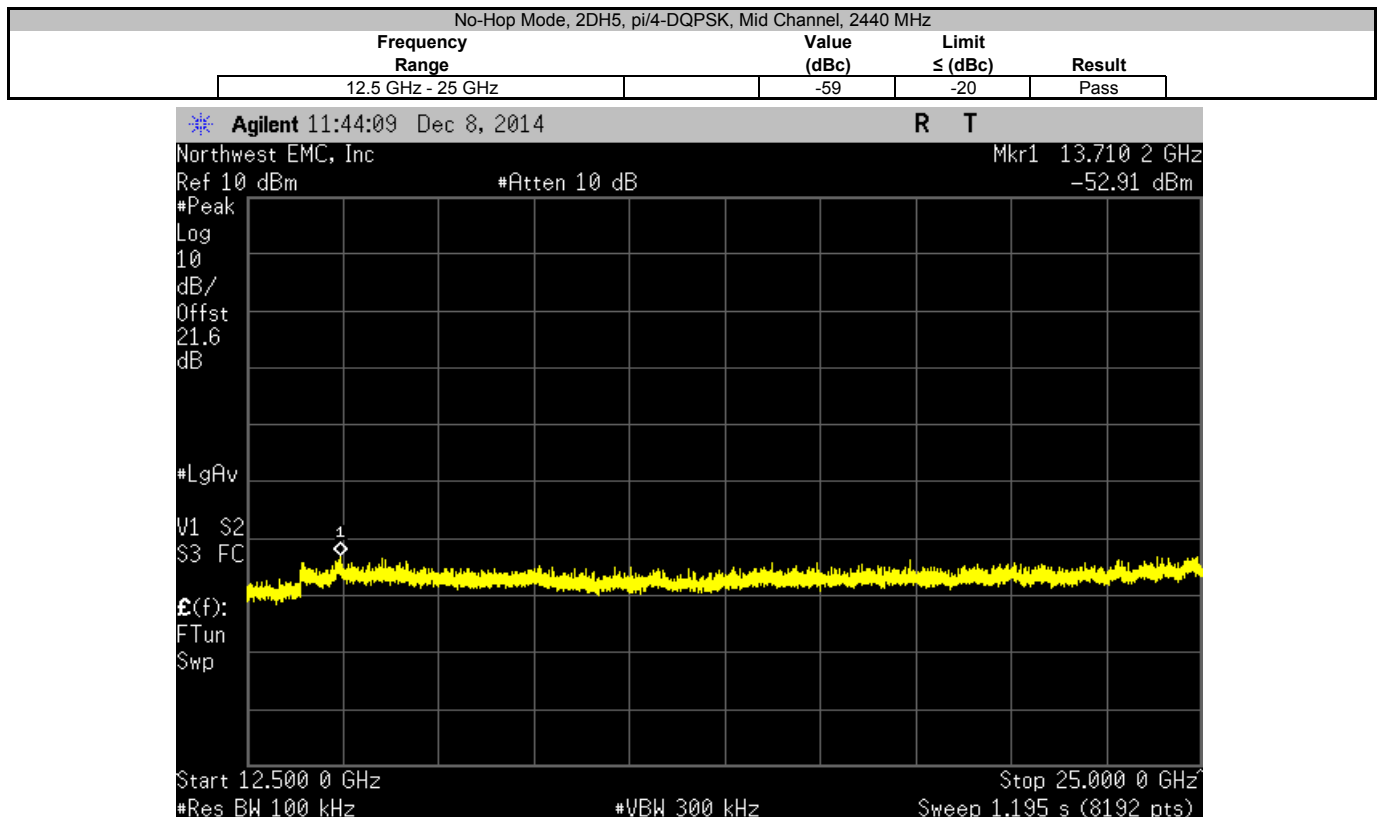
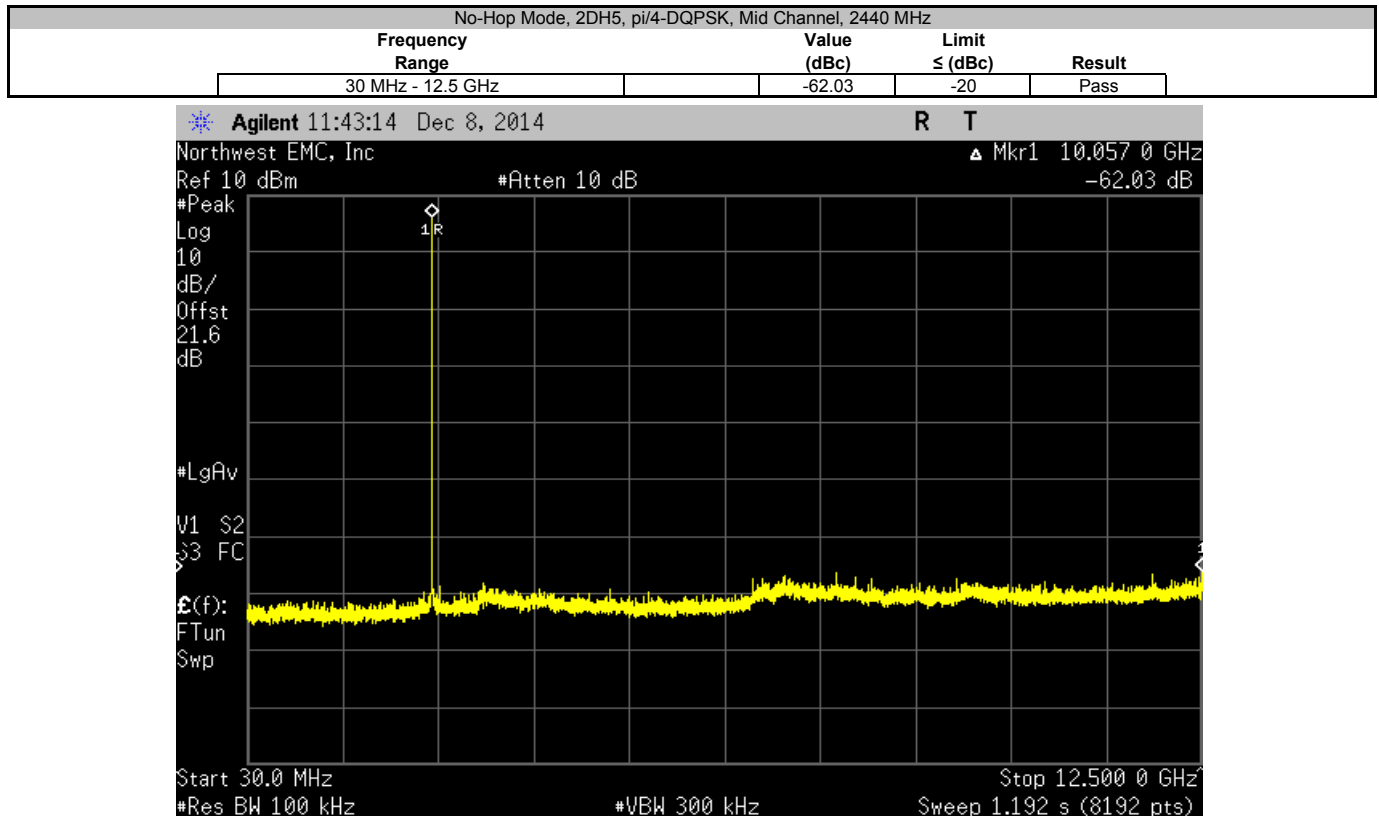


No-Hop Mode, 2DH5, pi/4-DQPSK, Low Channel, 2402 MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	-62.26	-20	Pass	

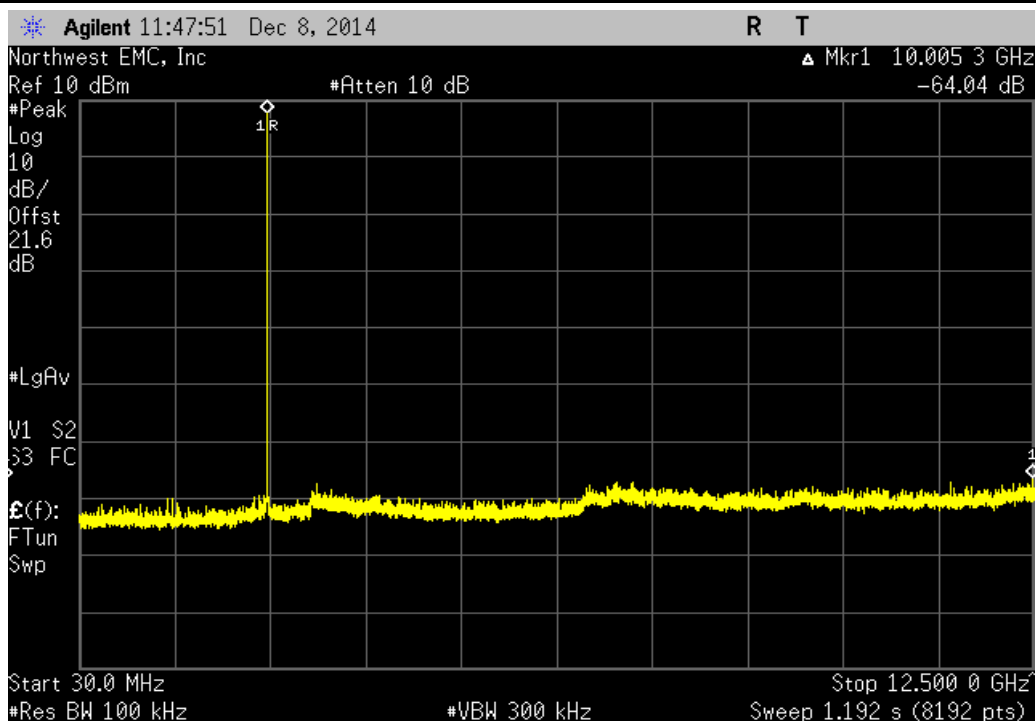


No-Hop Mode, 2DH5, pi/4-DQPSK, Low Channel, 2402 MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-59.09	-20	Pass	

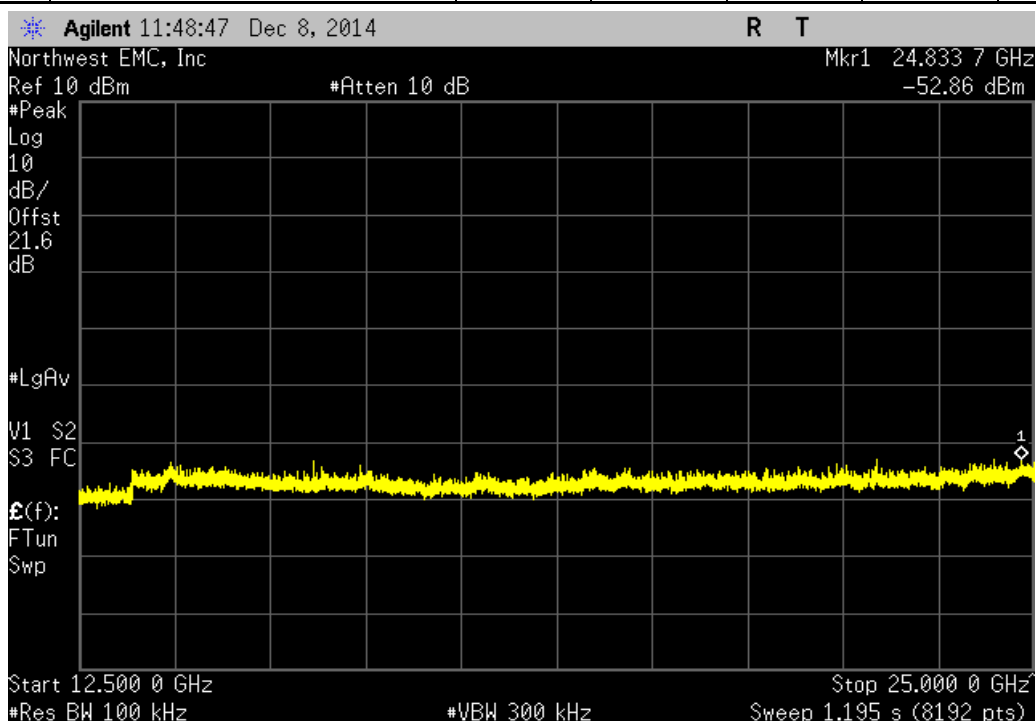




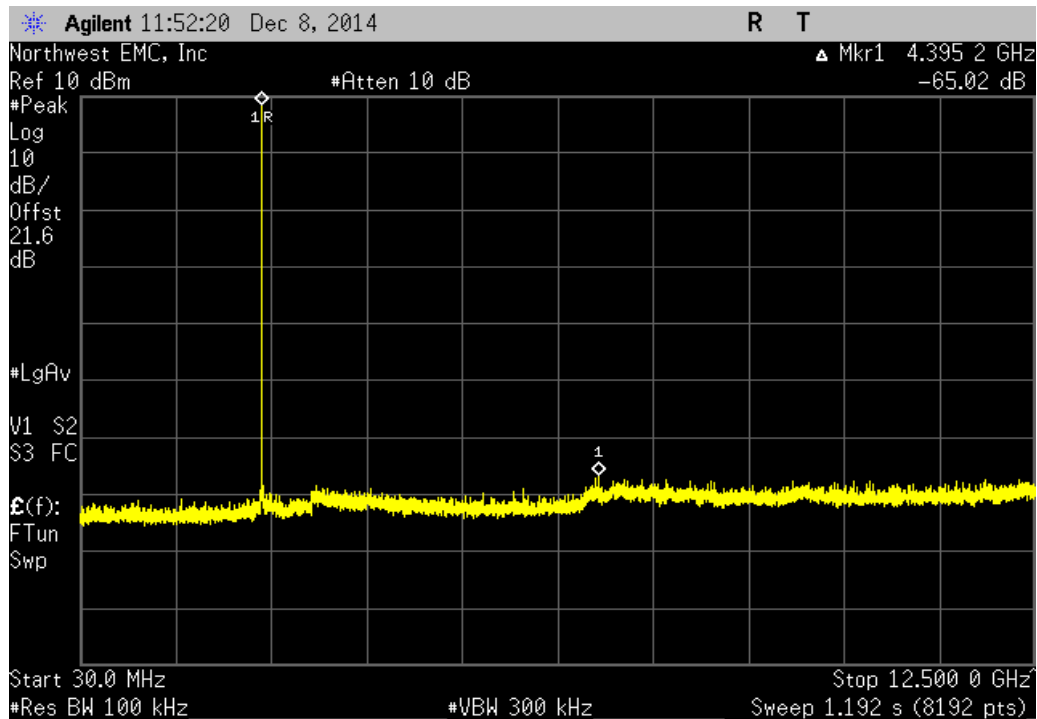
No-Hop Mode, 2DH5, pi/4-DQPSK, High Channel, 2480 MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	-64.04	-20	Pass	



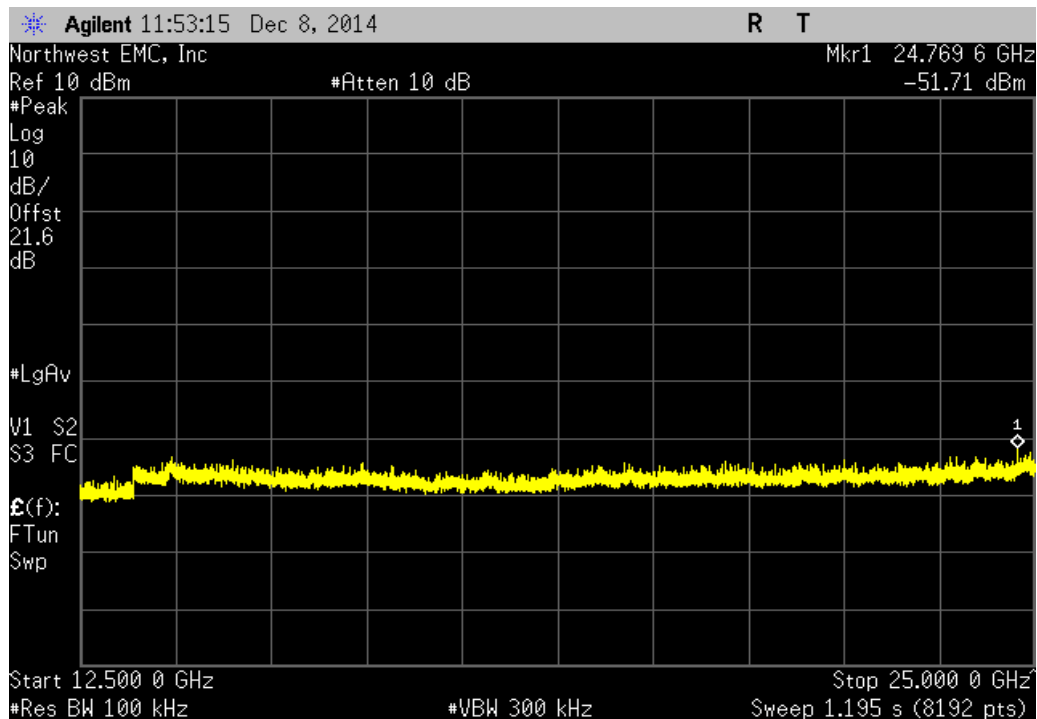
No-Hop Mode, 2DH5, pi/4-DQPSK, High Channel, 2480 MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-60.46	-20	Pass	



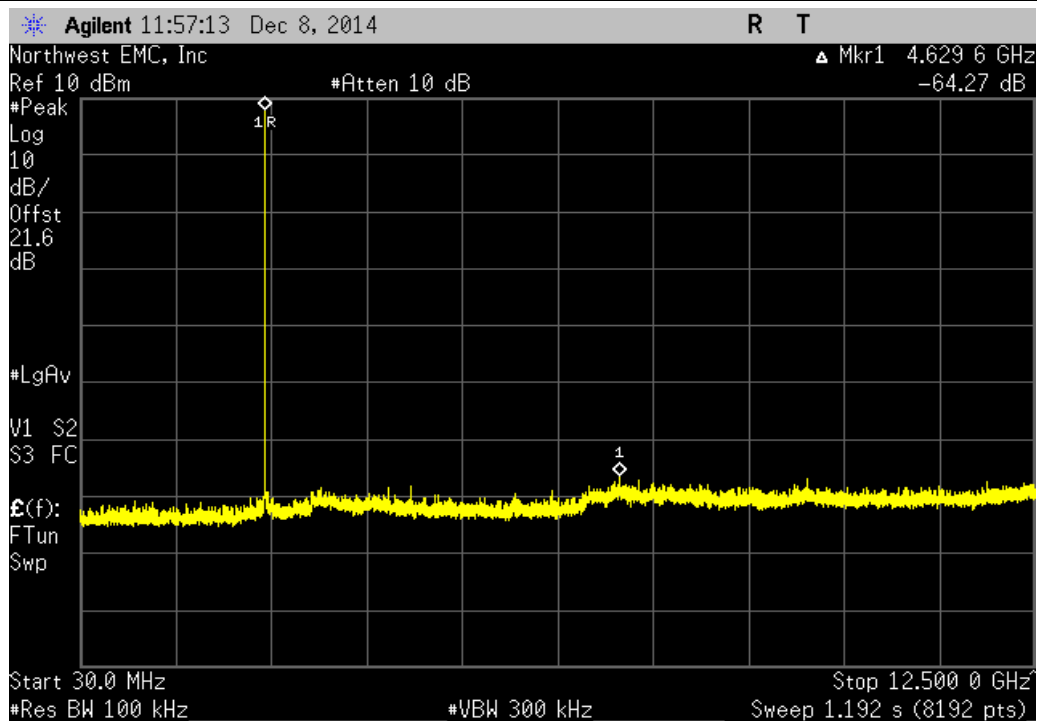
No-Hop Mode, 3DH5, 8-DPSK, Low Channel, 2402 MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	-65.02	-20	Pass	



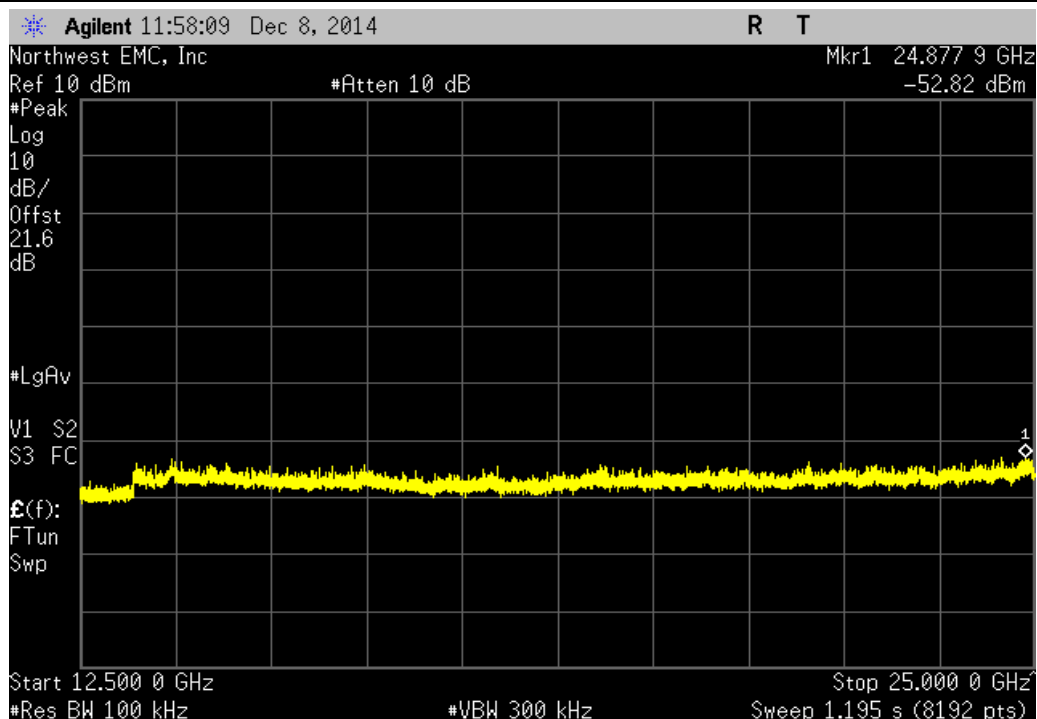
No-Hop Mode, 3DH5, 8-DPSK, Low Channel, 2402 MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-60.07	-20	Pass	



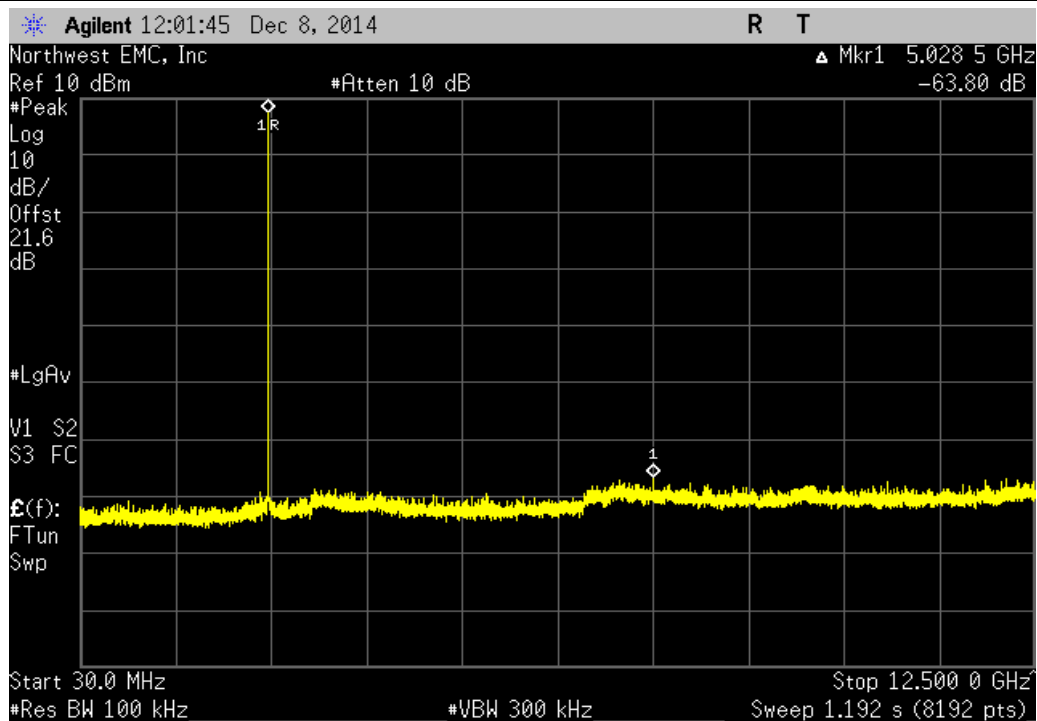
No-Hop Mode, 3DH5, 8-DPSK, Mid Channel, 2440 MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	-64.27	-20	Pass	



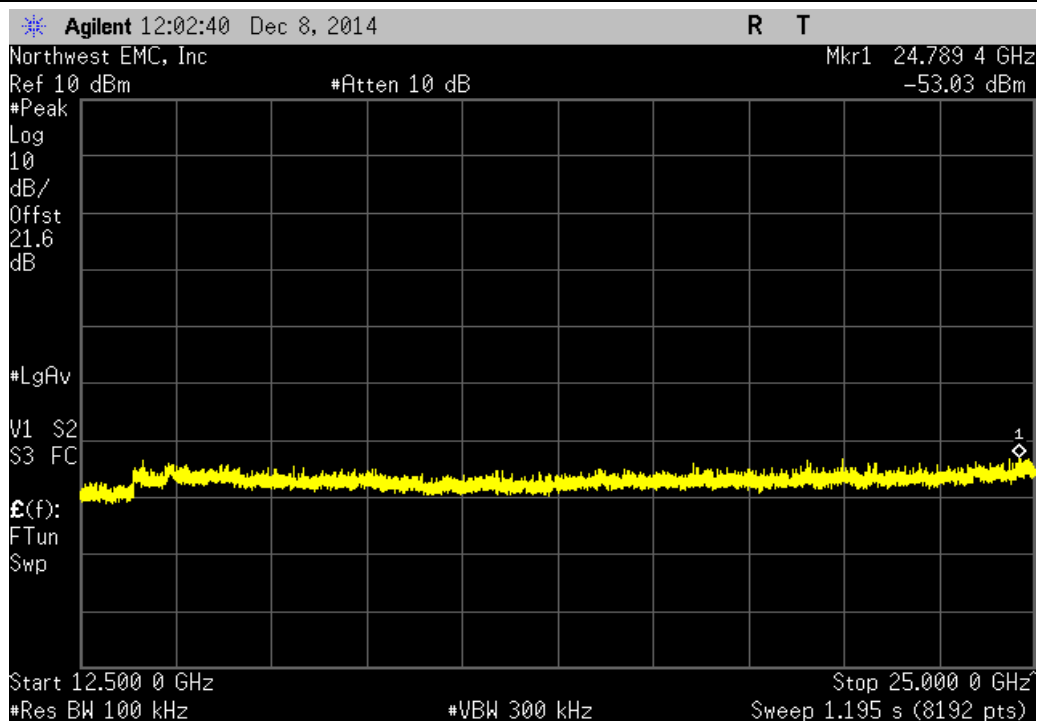
No-Hop Mode, 3DH5, 8-DPSK, Mid Channel, 2440 MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-60.65	-20	Pass	



No-Hop Mode, 3DH5, 8-DPSK, High Channel, 2480 MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	-63.8	-20	Pass	



No-Hop Mode, 3DH5, 8-DPSK, High Channel, 2480 MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-60.33	-20	Pass	



OCCUPIED BANDWIDTH

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.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval (mos)
MN08 Direct Connect Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNU	10/2/2014	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC Block	Fairview Microwave	SD3379	AMI	10/2/2014	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	8/12/2014	36
Spectrum Analyzer	Agilent	E4440A	AAX	4/28/2014	12

TEST DESCRIPTION

The occupied bandwidth was measured with the EUT set to low, medium and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet in a no-hop mode.

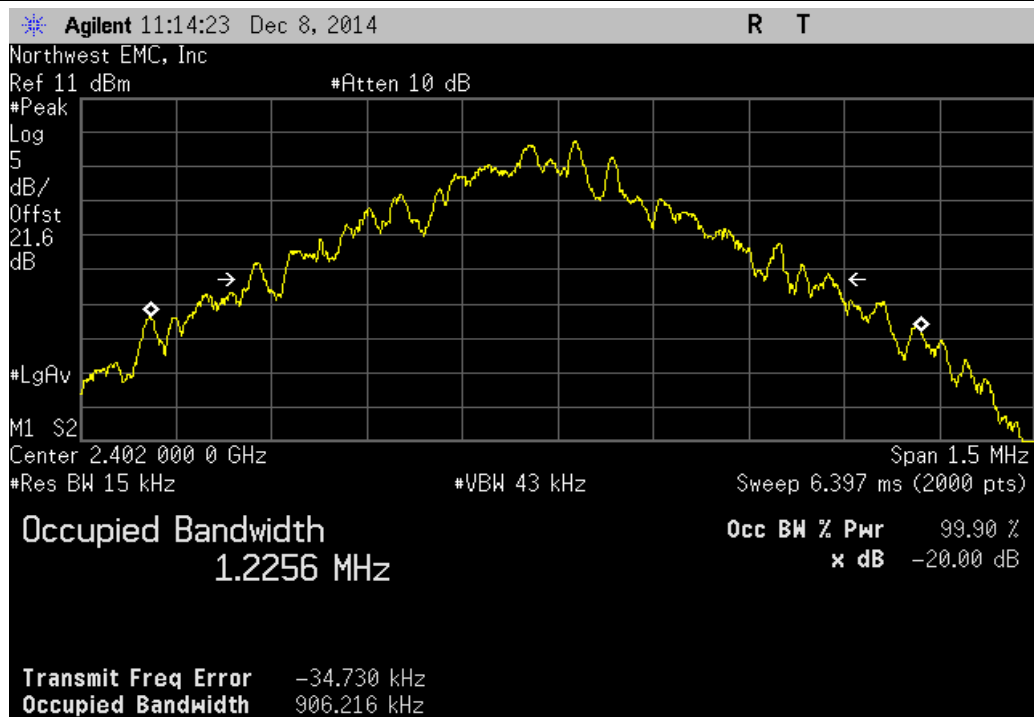


OCCUPIED BANDWIDTH

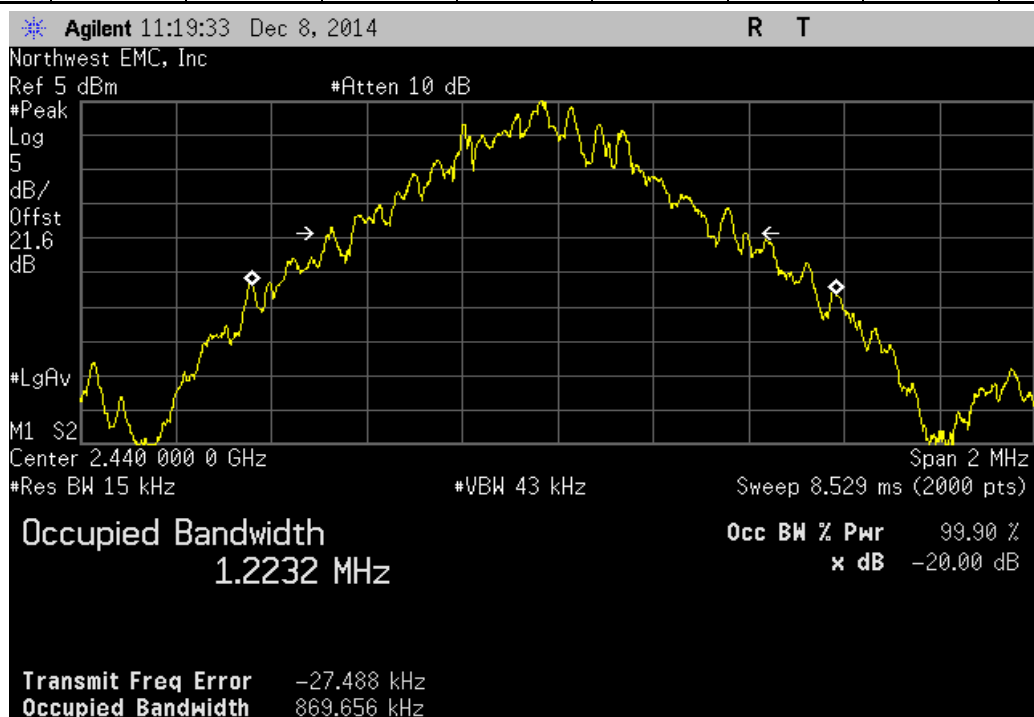
XMit 2014.02.07
NweTx 2014.11.06

EUT: ConnectCore i.MX6 WiFi/Bluetooth		Work Order: ETHE0018	
Serial Number: 00409D 7C03D2		Date: 12/08/14	
Customer: Etherios Design Solutions		Temperature: 22°C	
Attendees: None		Humidity: 22%	
Project: None		Barometric Pres.: 1019.6	
Tested by: Trevor Buls		Power: 5VDC	
		Job Site: MN08	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2015		ANSI C63.10:2009	
COMMENTS			
None			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature <i>Trevor Buls</i>	
		Value	Limit (<)
No-Hop Mode			
DH5, GFSK			
Low Channel, 2402 MHz		906.216 kHz	1.5 MHz
Mid Channel, 2440 MHz		869.656 kHz	1.5 MHz
High Channel, 2480 MHz		875.447 kHz	1.5 MHz
2DH5, pi/4-DQPSK			
Low Channel, 2402 MHz		1.265 MHz	1.5 MHz
Mid Channel, 2440 MHz		1.351 MHz	1.5 MHz
High Channel, 2480 MHz		1.261 MHz	1.5 MHz
3DH5, 8-DPSK			
Low Channel, 2402 MHz		1.263 MHz	1.5 MHz
Mid Channel, 2440 MHz		1.26 MHz	1.5 MHz
High Channel, 2480 MHz		1.255 MHz	1.5 MHz
			Result
			Pass
			Pass
			Pass
			Pass
			Pass
			Pass
			Pass
			Pass

No-Hop Mode, DH5, GFSK, Low Channel, 2402 MHz						
				Value	Limit (<)	Result
				906.216 kHz	1.5 MHz	Pass



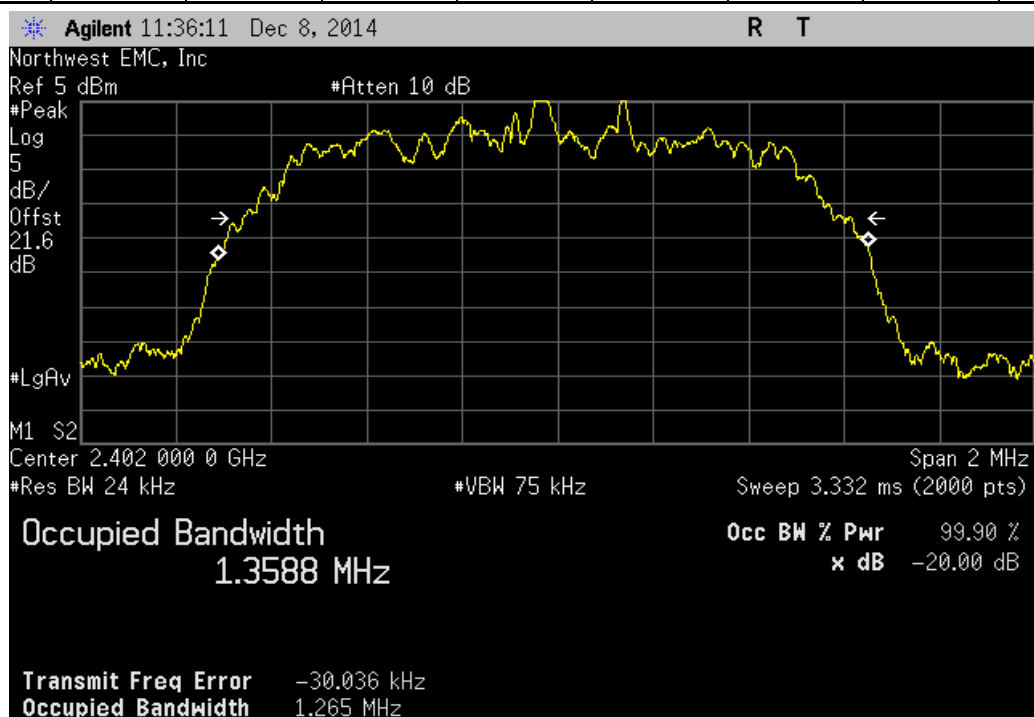
No-Hop Mode, DH5, GFSK, Mid Channel, 2440 MHz						
				Value	Limit (<)	Result
				869.656 kHz	1.5 MHz	Pass



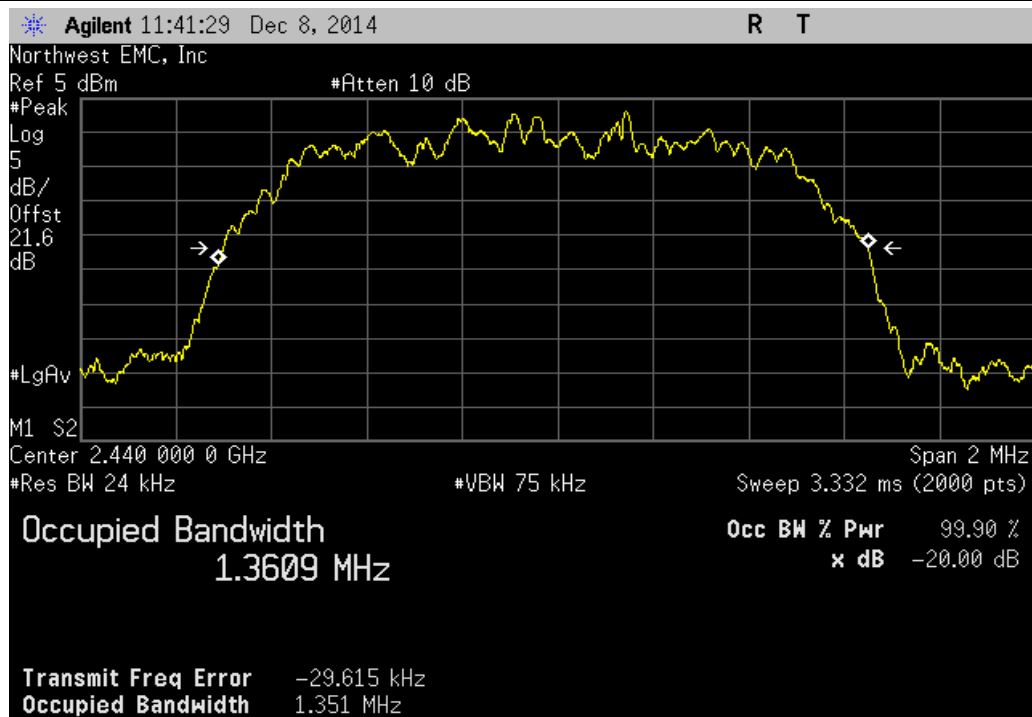
No-Hop Mode, DH5, GFSK, High Channel, 2480 MHz						
				Value	Limit (<)	Result
				875.447 kHz	1.5 MHz	Pass



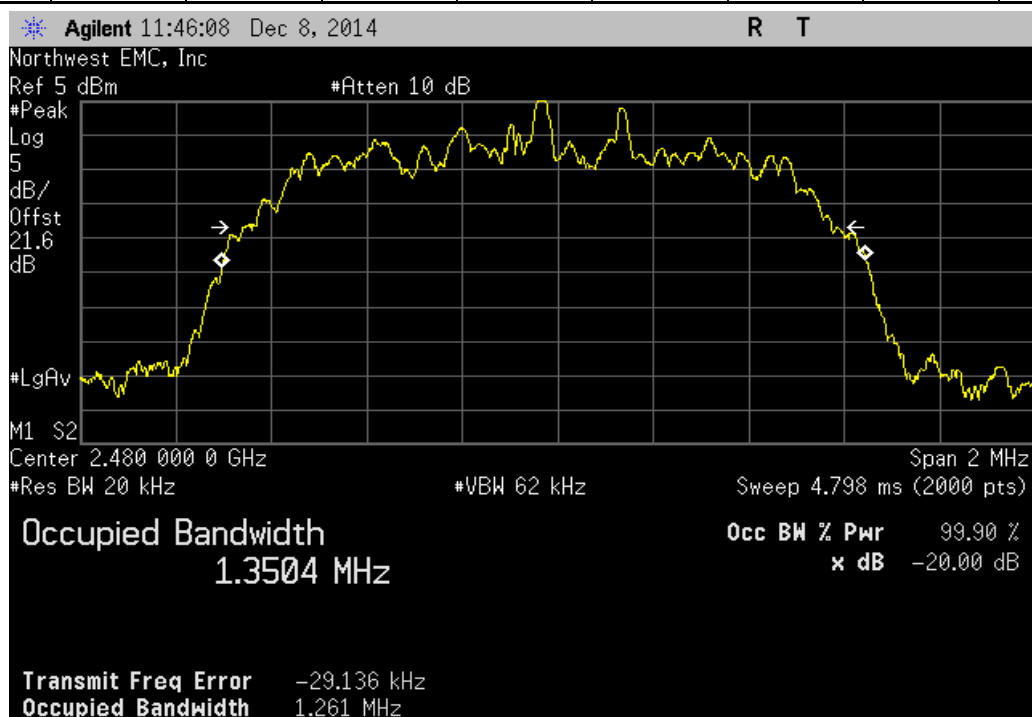
No-Hop Mode, 2DH5, pi/4-DQPSK, Low Channel, 2402 MHz						
				Value	Limit (<)	Result
				1.265 MHz	1.5 MHz	Pass

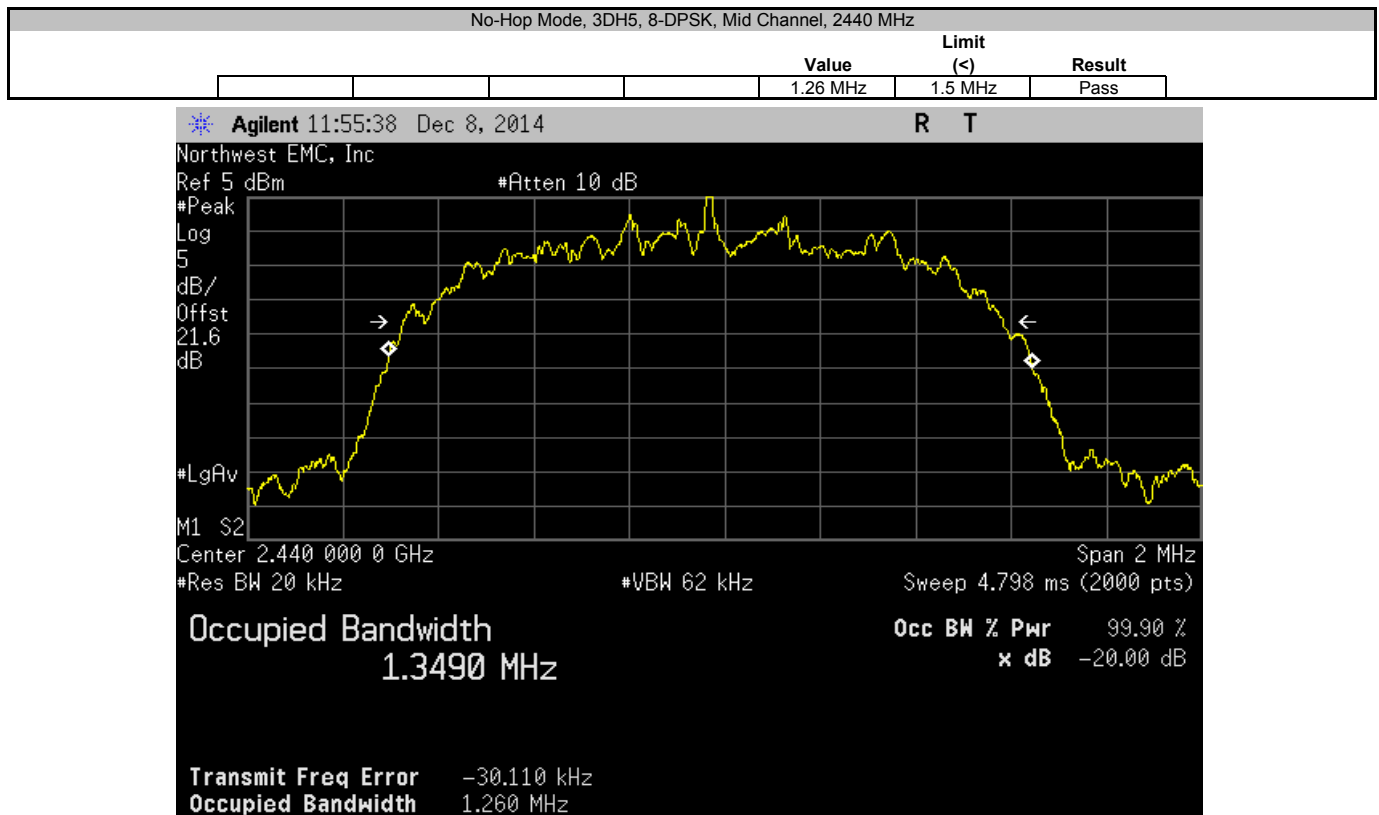
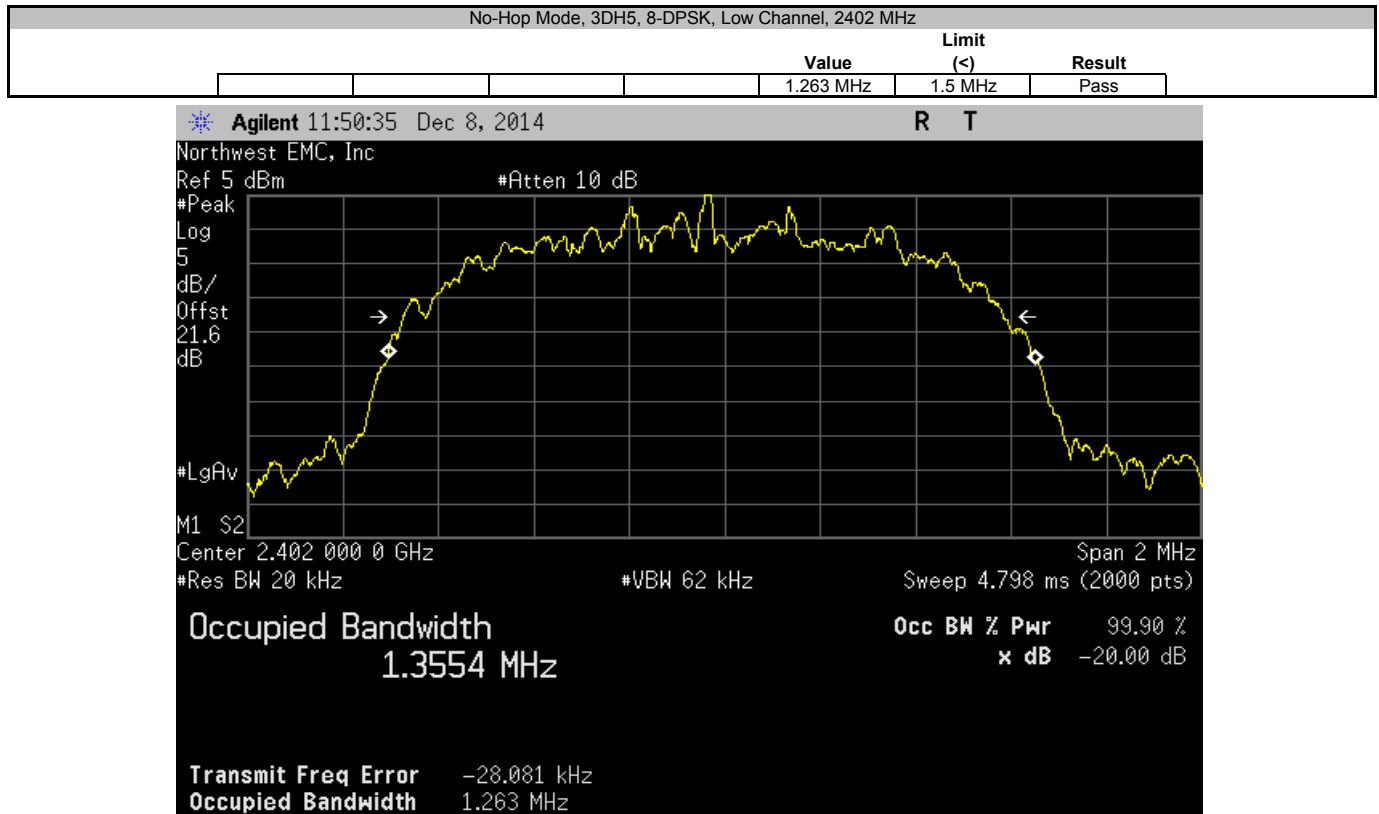


No-Hop Mode, 2DH5, pi/4-DQPSK, Mid Channel, 2440 MHz						
				Value	Limit (<)	Result
				1.351 MHz	1.5 MHz	Pass

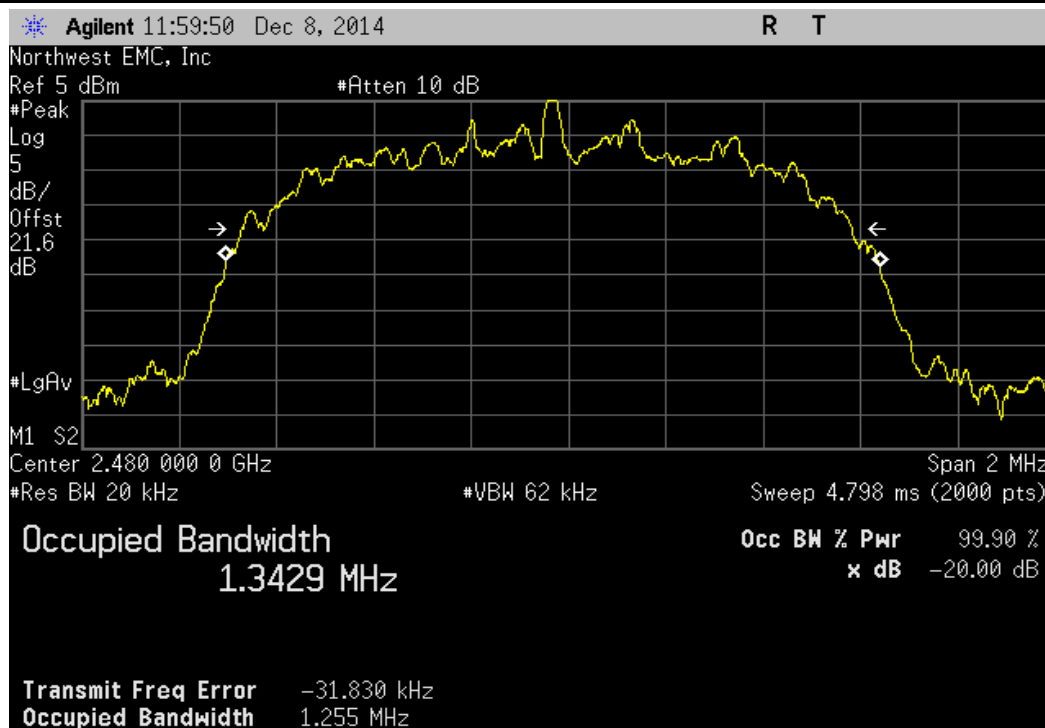


No-Hop Mode, 2DH5, pi/4-DQPSK, High Channel, 2480 MHz						
				Value	Limit (<)	Result
				1.261 MHz	1.5 MHz	Pass





No-Hop Mode, 3DH5, 8-DPSK, High Channel, 2480 MHz						
				Value	Limit (<)	Result
				1.255 MHz	1.5 MHz	Pass



OUTPUT POWER

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.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval (mos)
MN08 Direct Connect Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNU	10/2/2014	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC Block	Fairview Microwave	SD3379	AMI	10/2/2014	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	8/12/2014	36
Spectrum Analyzer	Agilent	E4440A	AAX	4/28/2014	12

TEST DESCRIPTION

The peak output power was measured with the EUT set to low, medium and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was transmitting in a no hop mode at the data rate(s) listed in the datasheet.

De Facto EIRP Limit: Per 47 CFR 15.247 (b)(1-3), the EUT meets the de facto EIRP limit of +27dBm.

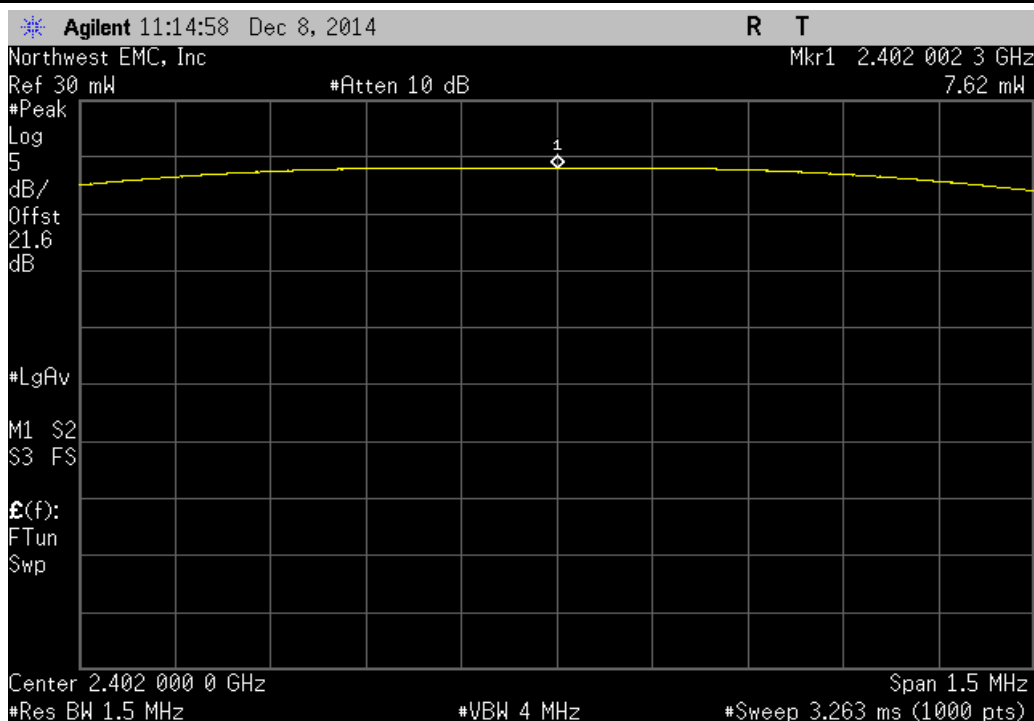


OUTPUT POWER

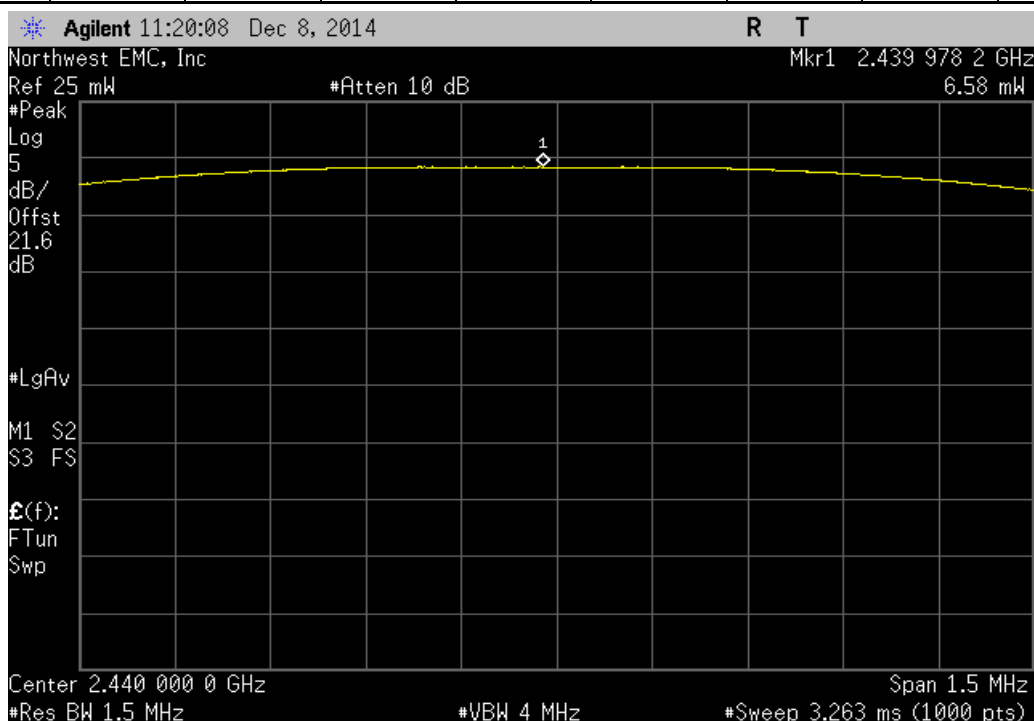
XMit 2014.02.07
NweTx 2014.11.06

EUT: ConnectCore i.MX6 WiFi/Bluetooth		Work Order: ETHE0018	
Serial Number: 00409D 7C03D2		Date: 12/08/14	
Customer: Etherios Design Solutions		Temperature: 22°C	
Attendees: None		Humidity: 22%	
Project: None		Barometric Pres.: 1019.6	
Tested by: Trevor Buls		Power: 5VDC	
		Job Site: MN08	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2015		ANSI C63.10:2009	
COMMENTS			
None			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature <i>Trevor Buls</i>	
		Value	Limit (<)
		Result	
No-Hop Mode			
DH5, GFSK			
Low Channel, 2402 MHz		7.621 mW	125 mW
Mid Channel, 2440 MHz		6.584 mW	125 mW
High Channel, 2480 MHz		6.246 mW	125 mW
2DH5, pi/4-DQPSK			
Low Channel, 2402 MHz		12.34 mW	125 mW
Mid Channel, 2440 MHz		10.882 mW	125 mW
High Channel, 2480 MHz		10.216 mW	125 mW
3DH5, 8-DPSK			
Low Channel, 2402 MHz		13.225 mW	125 mW
Mid Channel, 2440 MHz		11.41 mW	125 mW
High Channel, 2480 MHz		10.681 mW	125 mW

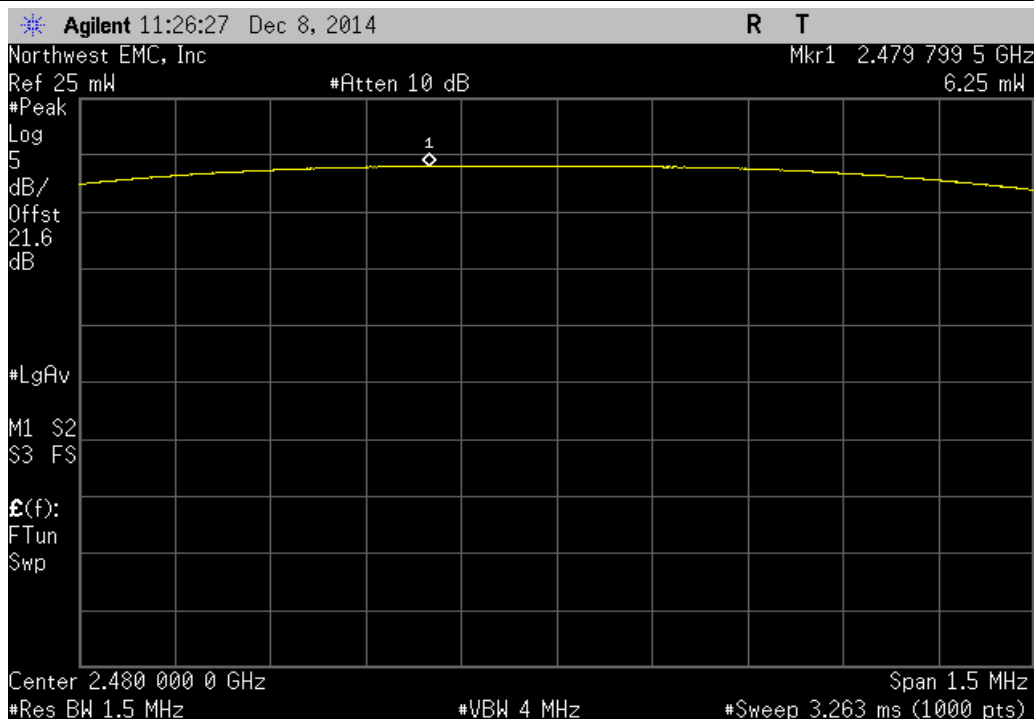
No-Hop Mode, DH5, GFSK, Low Channel, 2402 MHz						
				Value	Limit (<)	Result
				7.621 mW	125 mW	Pass



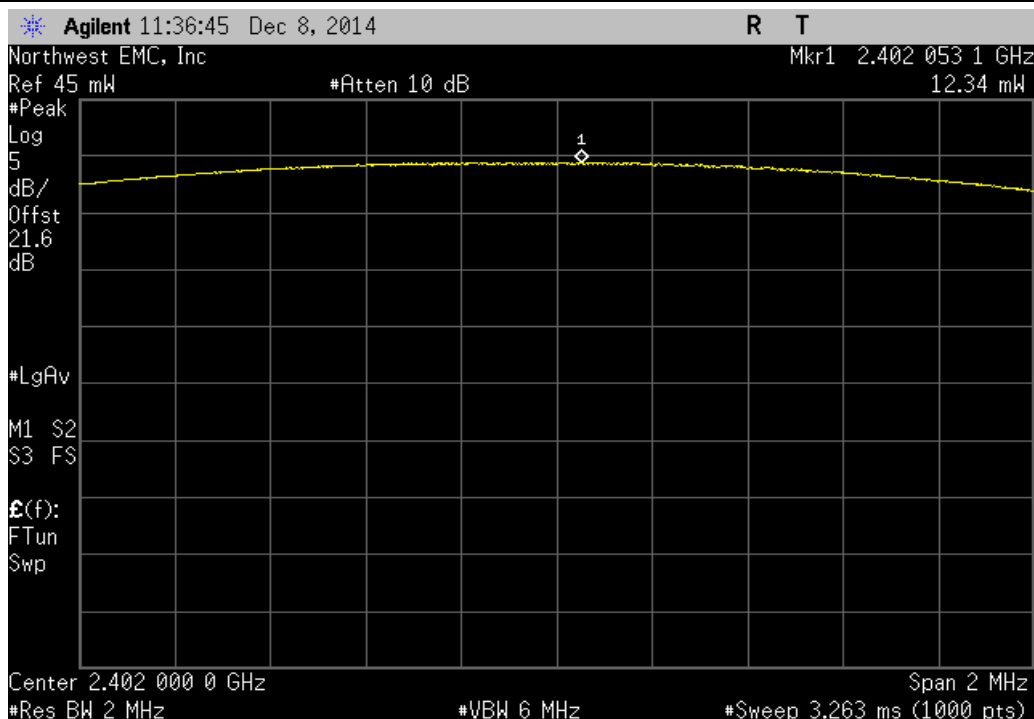
No-Hop Mode, DH5, GFSK, Mid Channel, 2440 MHz						
				Value	Limit (<)	Result
				6.584 mW	125 mW	Pass



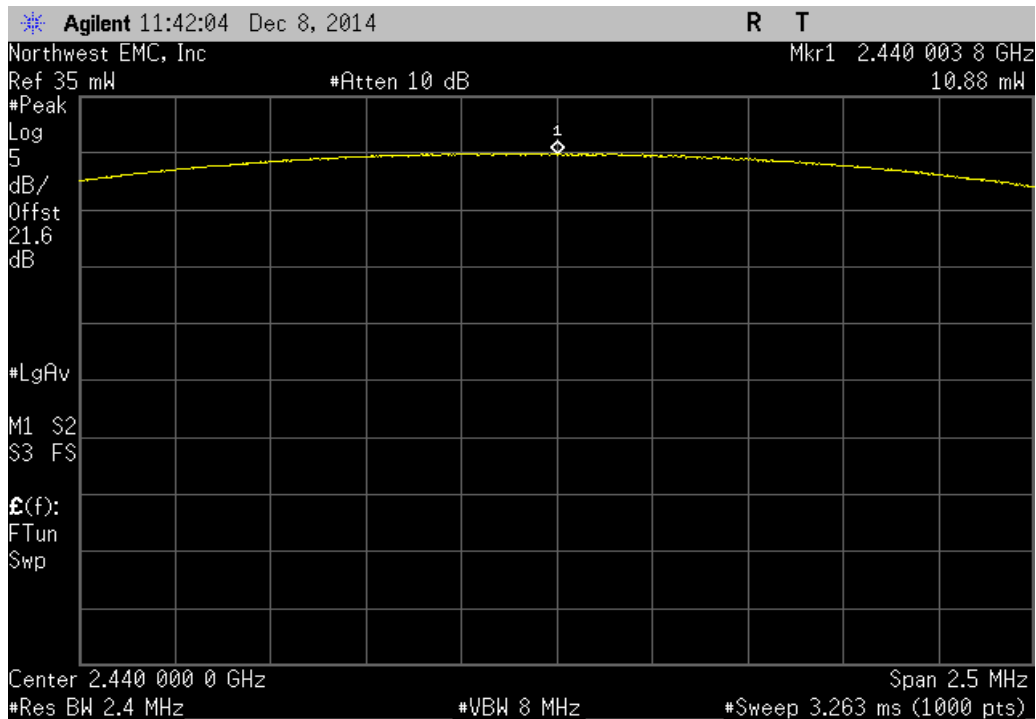
No-Hop Mode, DH5, GFSK, High Channel, 2480 MHz						
				Value	Limit (<)	Result
				6.246 mW	125 mW	Pass



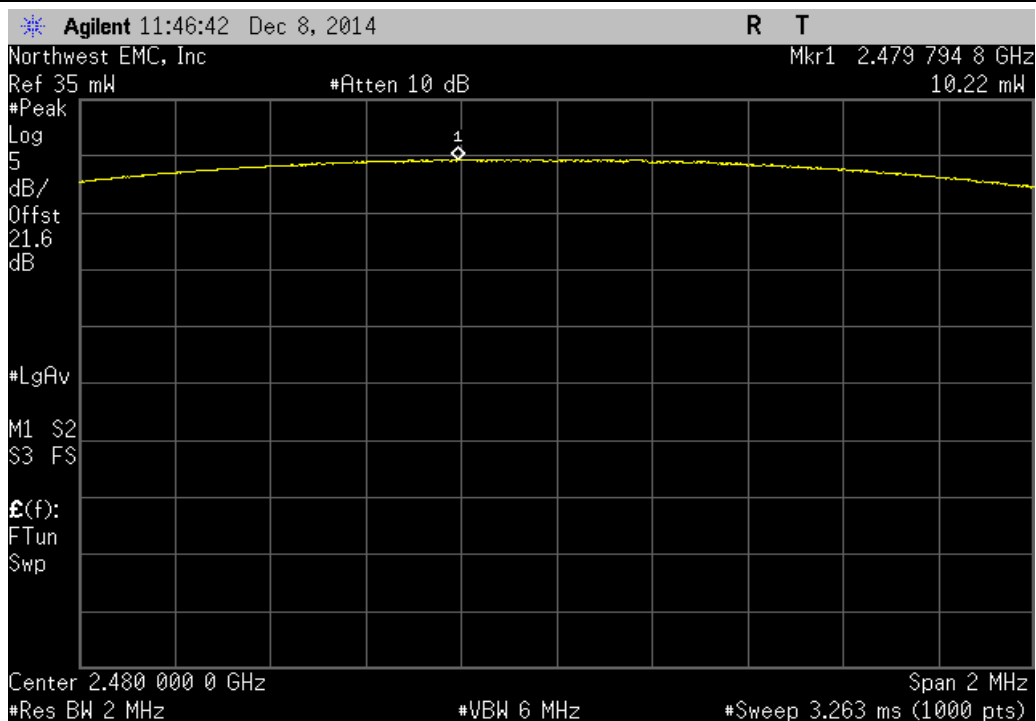
No-Hop Mode, 2DH5, pi/4-DQPSK, Low Channel, 2402 MHz						
				Value	Limit (<)	Result
				12.34 mW	125 mW	Pass



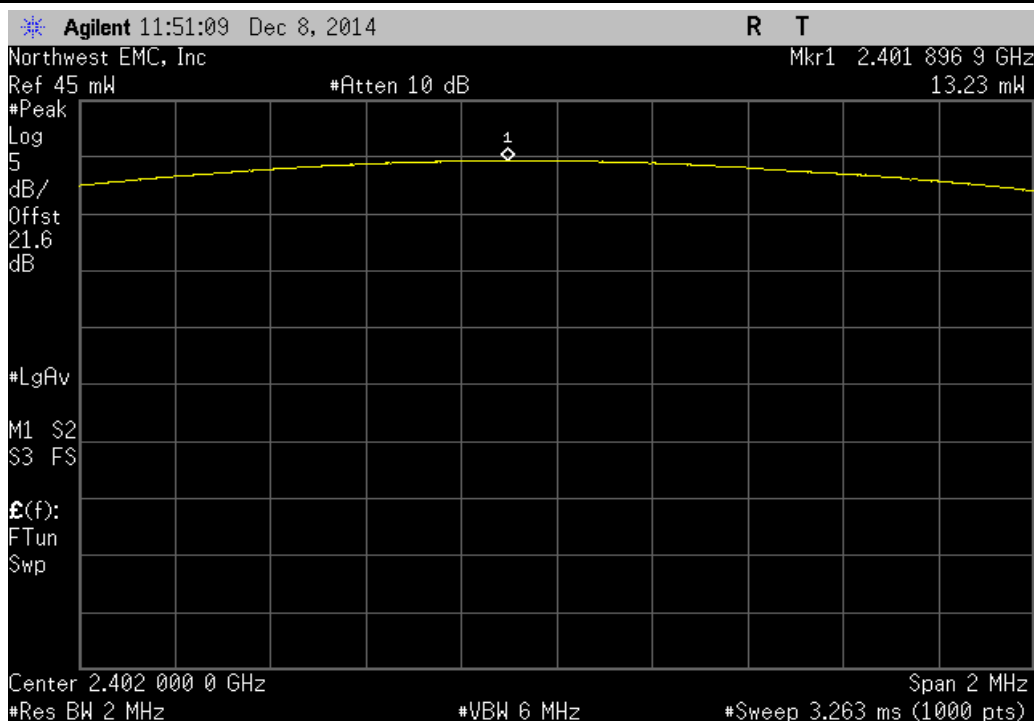
No-Hop Mode, 2DH5, pi/4-DQPSK, Mid Channel, 2440 MHz						
				Value	Limit (<)	Result
				10.882 mW	125 mW	Pass



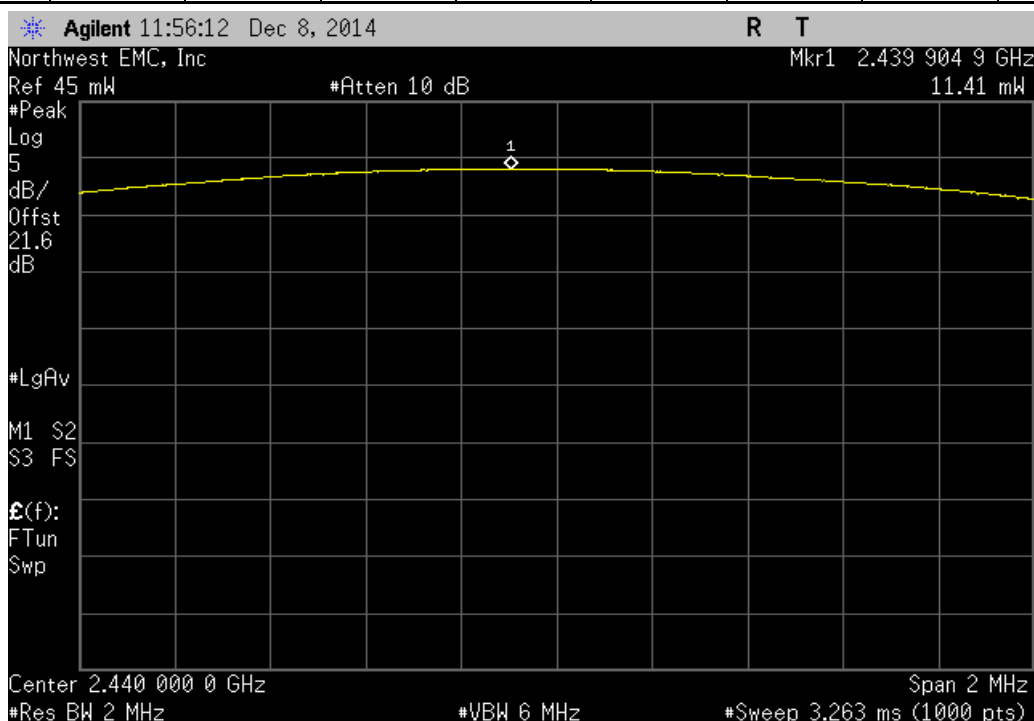
No-Hop Mode, 2DH5, pi/4-DQPSK, High Channel, 2480 MHz						
				Value	Limit (<)	Result
				10.216 mW	125 mW	Pass

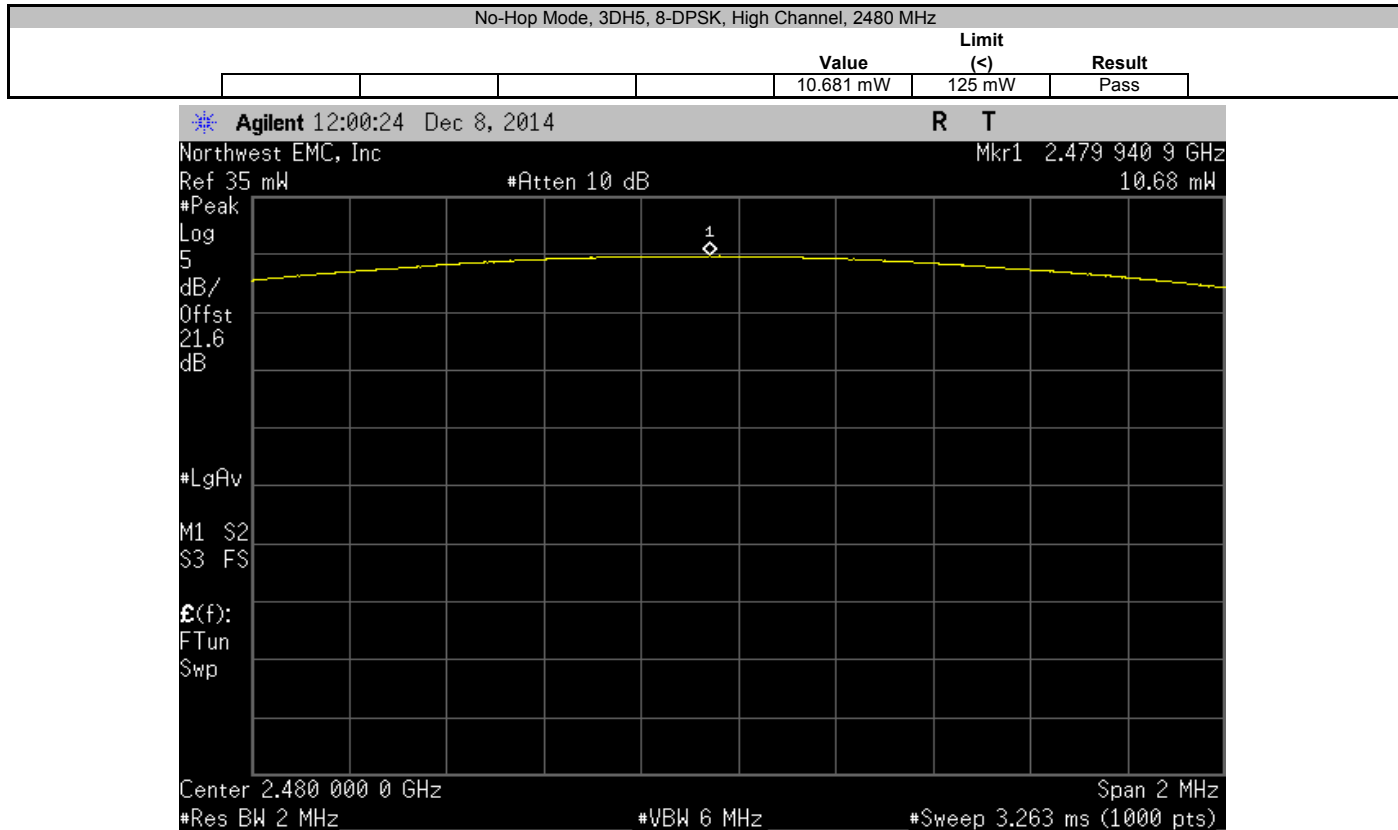


No-Hop Mode, 3DH5, 8-DPSK, Low Channel, 2402 MHz						
				Value	Limit (<)	Result
				13.225 mW	125 mW	Pass



No-Hop Mode, 3DH5, 8-DPSK, Mid Channel, 2440 MHz						
				Value	Limit (<)	Result
				11.41 mW	125 mW	Pass





CHANNEL SEPARATION

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.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval (mos)
MN08 Direct Connect Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNU	10/2/2014	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC Block	Fairview Microwave	SD3379	AMI	10/2/2014	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	8/12/2014	36
Spectrum Analyzer	Agilent	E4440A	AAX	4/28/2014	12

TEST DESCRIPTION

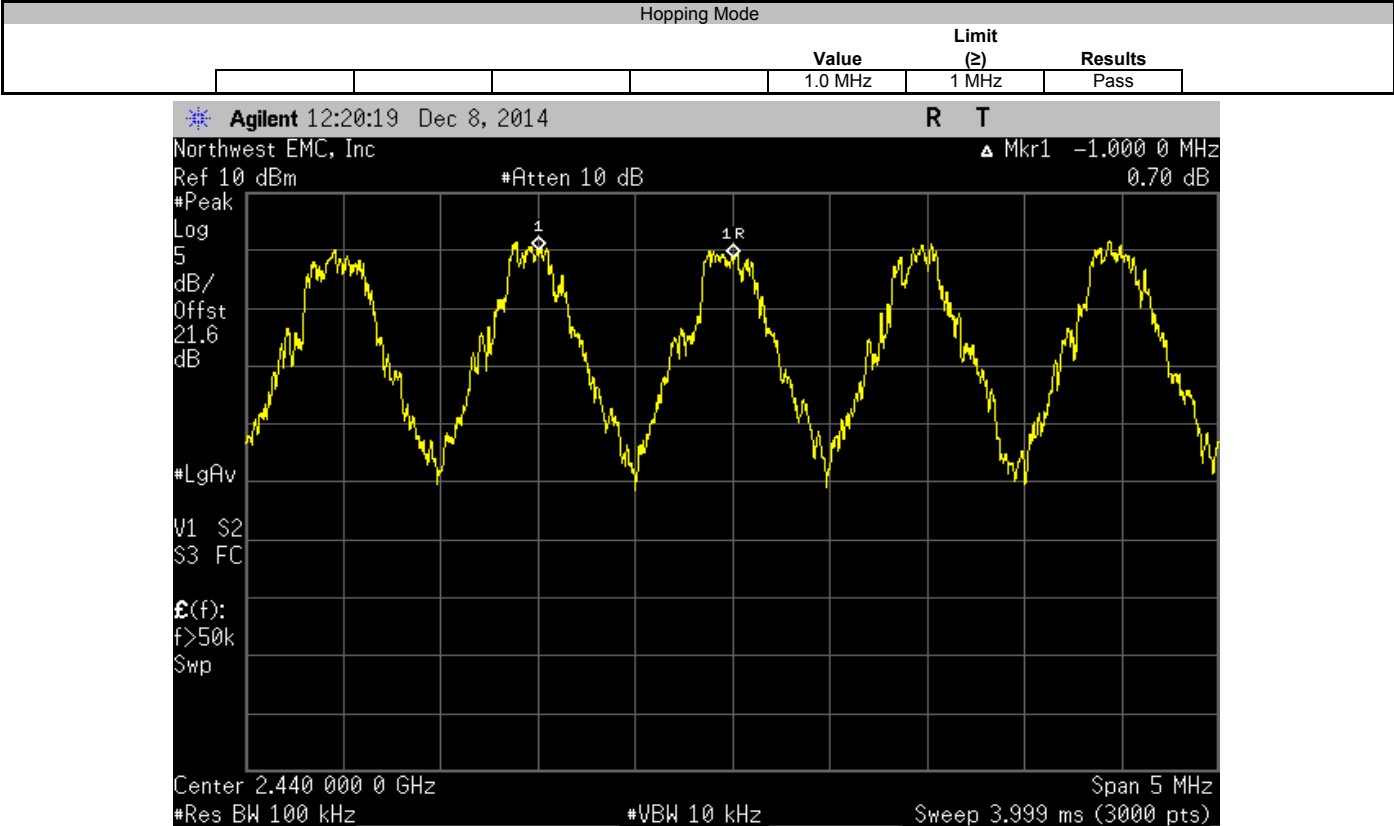
The channel carrier frequencies in the 2400-2483.5MHz band must be separated by 25 kHz or the 20dB bandwidth of the hopping channel, whichever is greater. Or, if the output power is less than 125 mW, the channel separation can be 25 kHz or 2/3 of the 20dB bandwidth. The EUT was operated in pseudorandom hopping mode. The spectrum was scanned across two adjacent peaks. The separation between the peaks of these channels was measured.

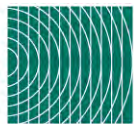


CHANNEL SEPARATION

XMIT 2014.02.07
NweTx 2014.11.06

EUT: ConnectCore i.MX6 WiFi/Bluetooth		Work Order: ETHE0018	
Serial Number: 00409D 7C03D2		Date: 12/08/14	
Customer: Etherios Design Solutions		Temperature: 22°C	
Attendees: None		Humidity: 22%	
Project: None		Barometric Pres.: 1019.6	
Tested by: Trevor Buls		Power: 5VDC	
		Job Site: MN08	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2015		ANSI C63.10:2009	
COMMENTS			
None			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature <i>Trevor Buls</i>	
		Value	Limit (≥)
Hopping Mode		1.0 MHz	1 MHz
			Pass





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.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval (mos)
MN08 Direct Connect Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNU	10/2/2014	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC Block	Fairview Microwave	SD3379	AMI	10/2/2014	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	8/12/2014	36
Spectrum Analyzer	Agilent	E4440A	AAX	4/28/2014	12

TEST DESCRIPTION

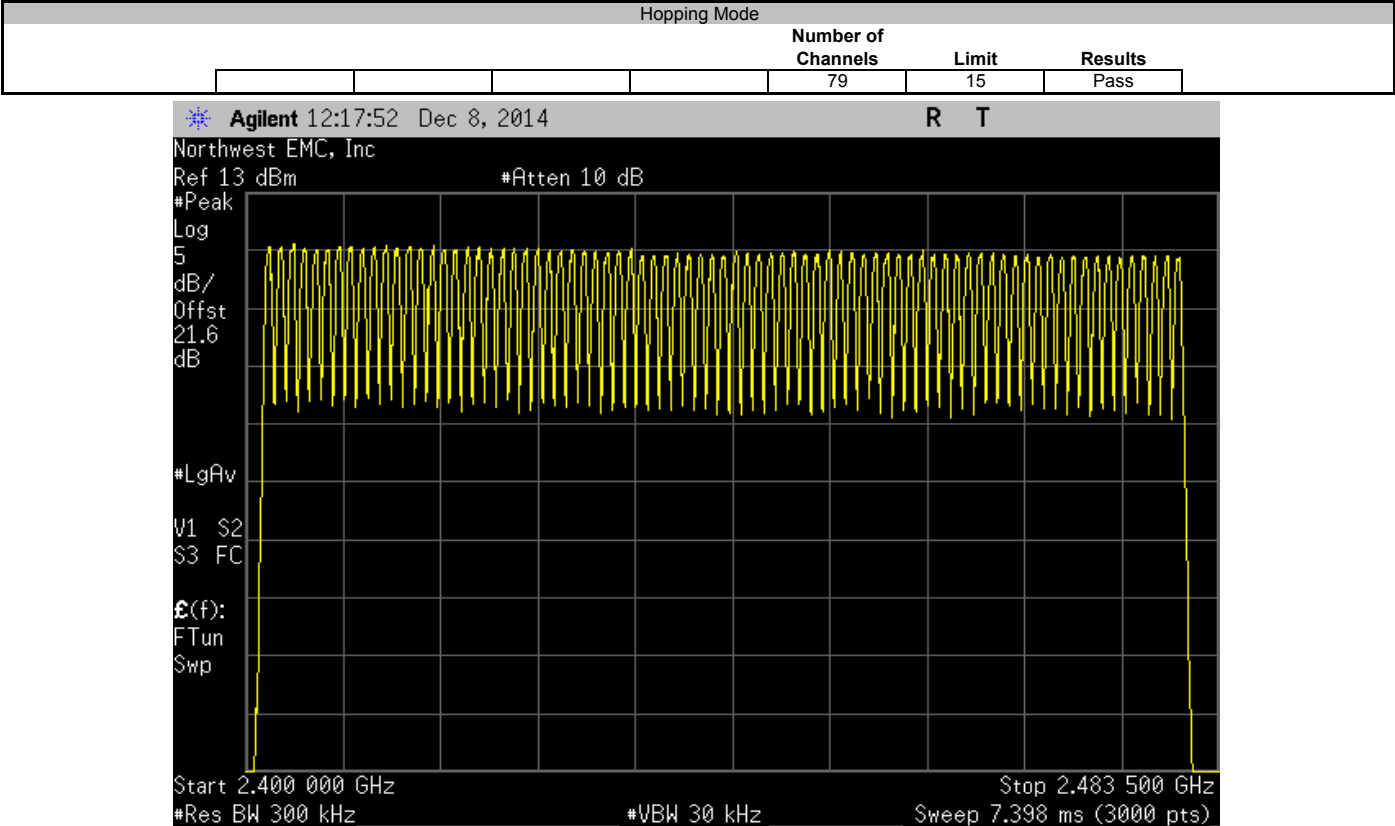
The number of hopping frequencies was measured across the authorized band. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The hopping function of the EUT was enabled.

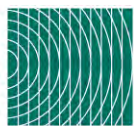


NUMBER OF HOPPING CHANNELS

XMIT 2014.02.07
NweTx 2014.11.06

EUT: ConnectCore i.MX6 WiFi/Bluetooth		Work Order: ETHE0018	
Serial Number: 00409D 7C03D2		Date: 12/08/14	
Customer: Etherios Design Solutions		Temperature: 22°C	
Attendees: None		Humidity: 22%	
Project: None		Barometric Pres.: 1019.6	
Tested by: Trevor Buls		Power: 5VDC	
		Job Site: MN08	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2015		ANSI C63.10:2009	
COMMENTS			
None			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature <i>Trevor Buls</i>	
		Number of Channels	Limit
Hopping Mode		79	15
			Results
			Pass





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.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval (mos)
MN08 Direct Connect Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNU	10/2/2014	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC Block	Fairview Microwave	SD3379	AMI	10/2/2014	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	8/12/2014	36
Spectrum Analyzer	Agilent	E4440A	AAX	4/28/2014	12

TEST DESCRIPTION

The average dwell time per hopping channel was measured at one hopping channel in the middle of the authorized band. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The hopping function of the EUT was enabled.

The dwell time limit is based on the Number of Hopping Channels * 400 mS. For Bluetooth this would be 79 Channels * 400mS = 31.6 Sec.

On Time During 31.6 Sec = Pulse Width * Average Number of Pulses * Scale Factor

➤Average Number of Pulses is based on 4 samples.

➤Scale Factor = 31.6 Sec / Screen Capture Sweep Time = 31.6 Sec / 6.32 Sec = 5

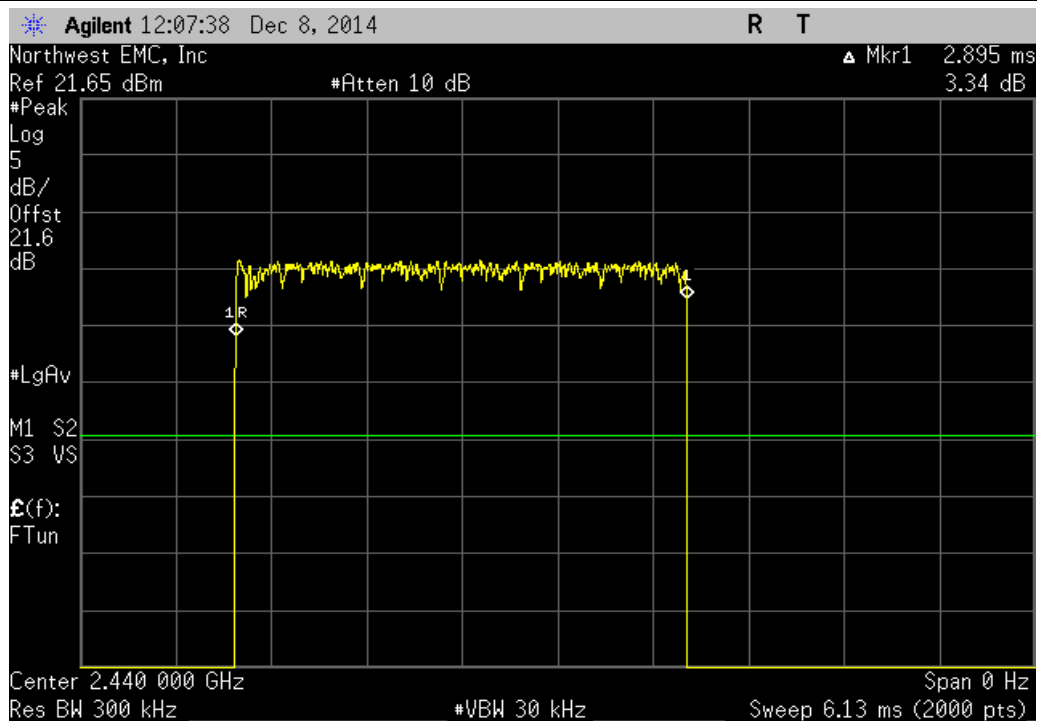


DWELL TIME

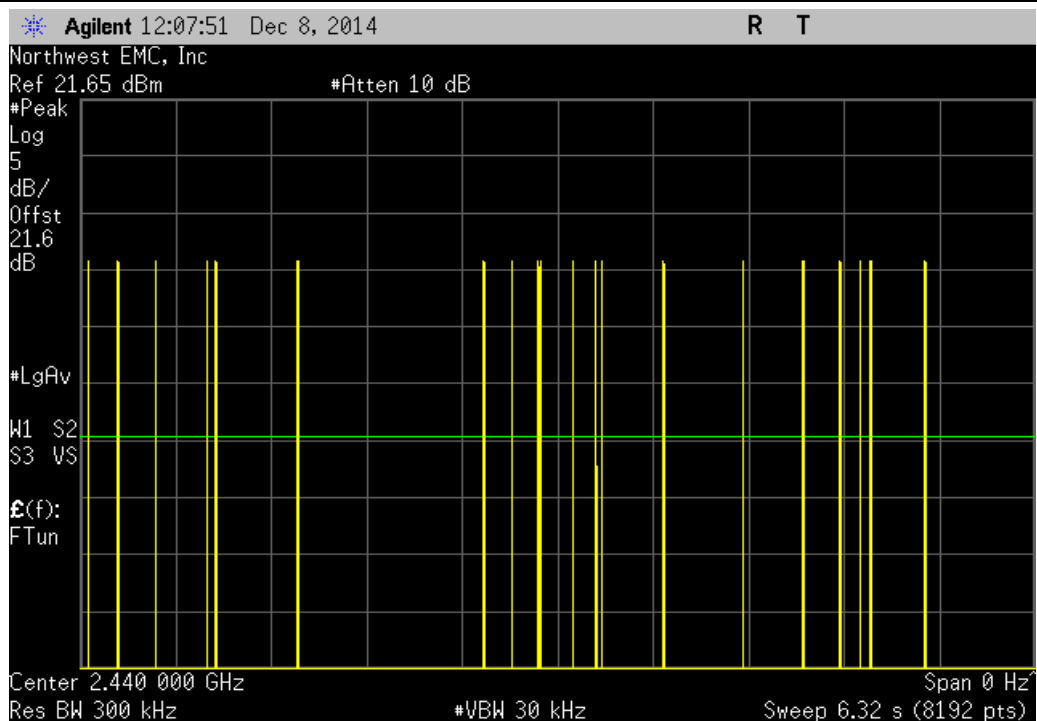
XMit 2014.02.07
NweTx 2014.11.06

EUT: ConnectCore i.MX6 WiFi/Bluetooth		Work Order: ETHE0018						
Serial Number: 00409D 7C03D2		Date: 12/08/14						
Customer: Etherios Design Solutions		Temperature: 22°C						
Attendees: None		Humidity: 22%						
Project: None		Barometric Pres.: 1019.6						
Tested by: Trevor Buls		Power: 5VDC						
Job Site: MN08								
TEST SPECIFICATIONS		Test Method						
FCC 15.247:2015		ANSI C63.10:2009						
COMMENTS								
None								
DEVIATIONS FROM TEST STANDARD								
None								
Configuration #	1	Signature <i>Trevor Buls</i>						
		Pulse Width (ms)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (ms) During 31.6 s	Limit (ms)	Results
Hopping Mode								
DH5, GFSK								
Mid Channel, 2440 MHz		2.895	N/A	N/A	N/A	N/A	N/A	N/A
Mid Channel, 2440 MHz		N/A	21	N/A	N/A	N/A	N/A	N/A
Mid Channel, 2440 MHz		N/A	16	N/A	N/A	N/A	N/A	N/A
Mid Channel, 2440 MHz		N/A	24	N/A	N/A	N/A	N/A	N/A
Mid Channel, 2440 MHz		N/A	17	N/A	N/A	N/A	N/A	N/A
Mid Channel, 2440 MHz		2.895	N/A	19.5	5	282.26	400	Pass
2DH5, pi/4-DQPSK								
Mid Channel, 2440 MHz		2.902	N/A	N/A	N/A	N/A	N/A	N/A
Mid Channel, 2440 MHz		N/A	23	N/A	N/A	N/A	N/A	N/A
Mid Channel, 2440 MHz		N/A	26	N/A	N/A	N/A	N/A	N/A
Mid Channel, 2440 MHz		N/A	22	N/A	N/A	N/A	N/A	N/A
Mid Channel, 2440 MHz		N/A	23	N/A	N/A	N/A	N/A	N/A
Mid Channel, 2440 MHz		2.902	N/A	23.5	5	340.99	400	Pass
3DH5, 8-DPSK								
Mid Channel, 2440 MHz		2.905	N/A	N/A	N/A	N/A	N/A	N/A
Mid Channel, 2440 MHz		N/A	21	N/A	N/A	N/A	N/A	N/A
Mid Channel, 2440 MHz		N/A	17	N/A	N/A	N/A	N/A	N/A
Mid Channel, 2440 MHz		N/A	23	N/A	N/A	N/A	N/A	N/A
Mid Channel, 2440 MHz		N/A	19	N/A	N/A	N/A	N/A	N/A
Mid Channel, 2440 MHz		2.905	N/A	20	5	290.50	400	Pass

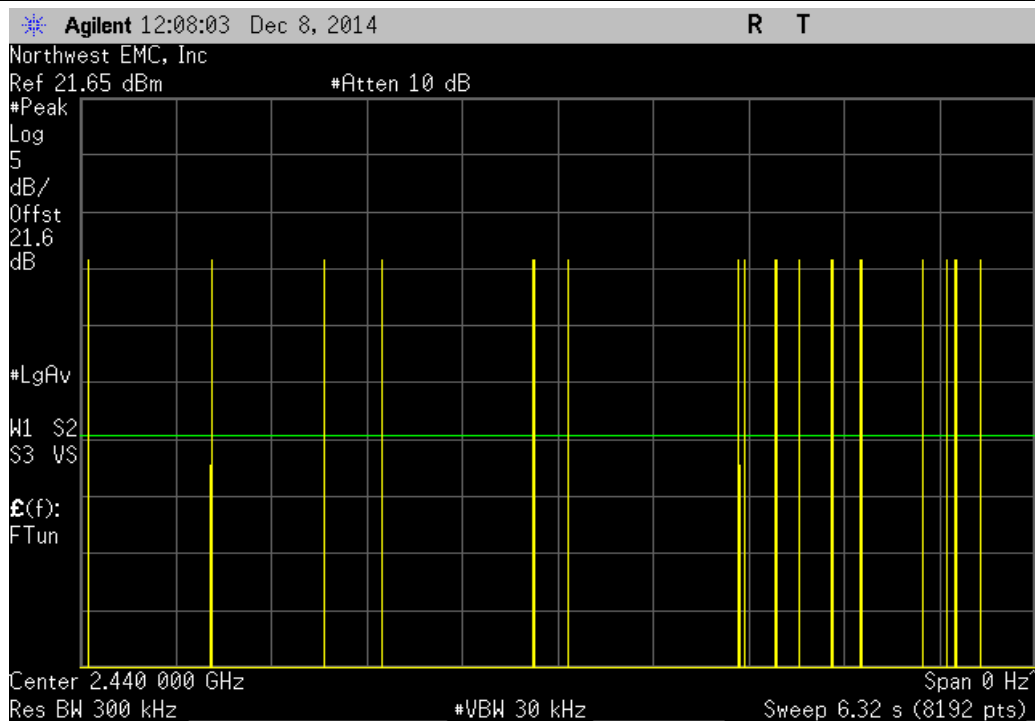
Hopping Mode, DH5, GFSK, Mid Channel, 2440 MHz						
Pulse Width (ms)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (ms) During 31.6 s	Limit (ms)	Results
2.895	N/A	N/A	N/A	N/A	N/A	N/A



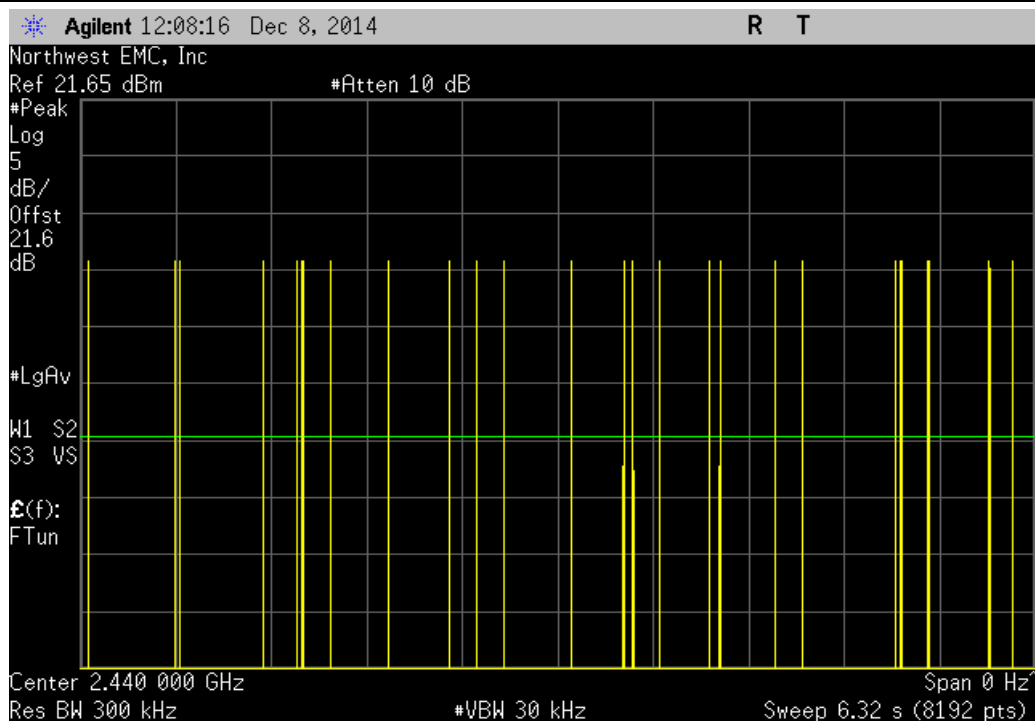
Hopping Mode, DH5, GFSK, Mid Channel, 2440 MHz						
Pulse Width (ms)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (ms) During 31.6 s	Limit (ms)	Results
N/A	21	N/A	N/A	N/A	N/A	N/A



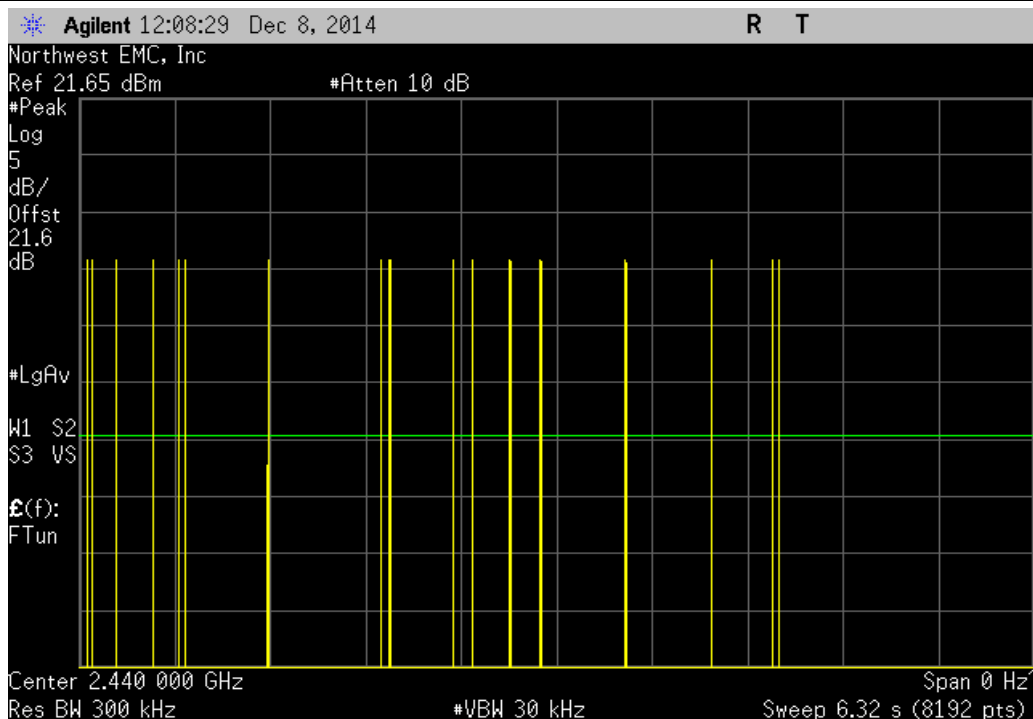
Hopping Mode, DH5, GFSK, Mid Channel, 2440 MHz						
Pulse Width (ms)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (ms) During 31.6 s	Limit (ms)	Results
N/A	16	N/A	N/A	N/A	N/A	N/A



Hopping Mode, DH5, GFSK, Mid Channel, 2440 MHz						
Pulse Width (ms)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (ms) During 31.6 s	Limit (ms)	Results
N/A	24	N/A	N/A	N/A	N/A	N/A



Hopping Mode, DH5, GFSK, Mid Channel, 2440 MHz						
Pulse Width (ms)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (ms) During 31.6 s	Limit (ms)	Results
N/A	17	N/A	N/A	N/A	N/A	N/A

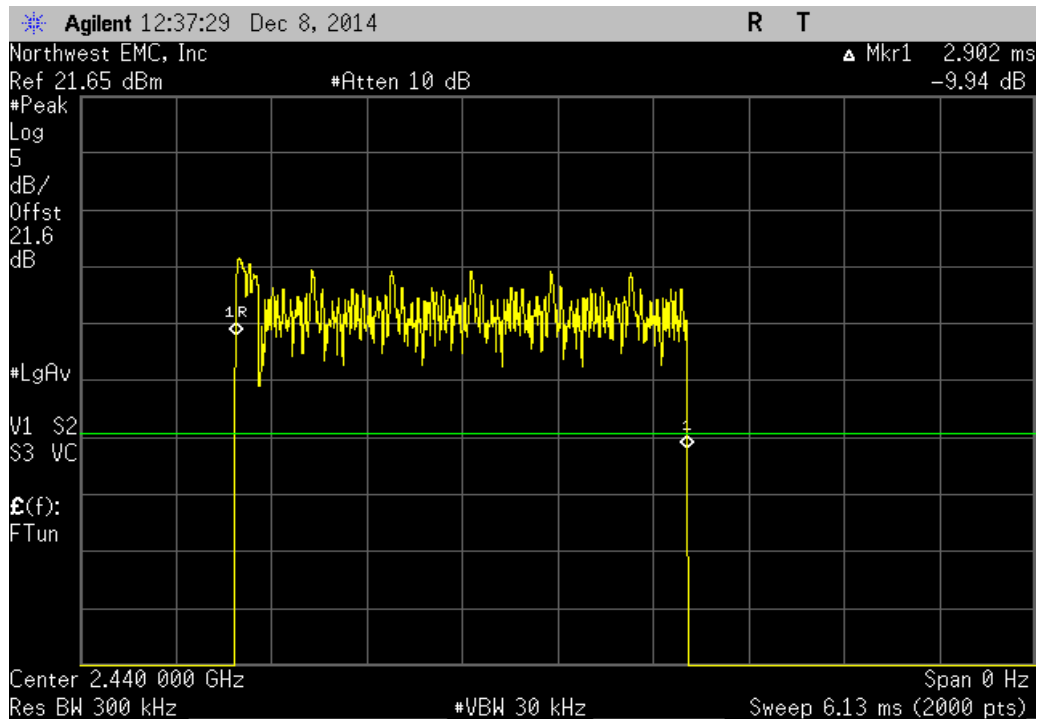


Hopping Mode, DH5, GFSK, Mid Channel, 2440 MHz						
Pulse Width (ms)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (ms) During 31.6 s	Limit (ms)	Results
2.895	N/A	19.5	5	282.26	400	Pass

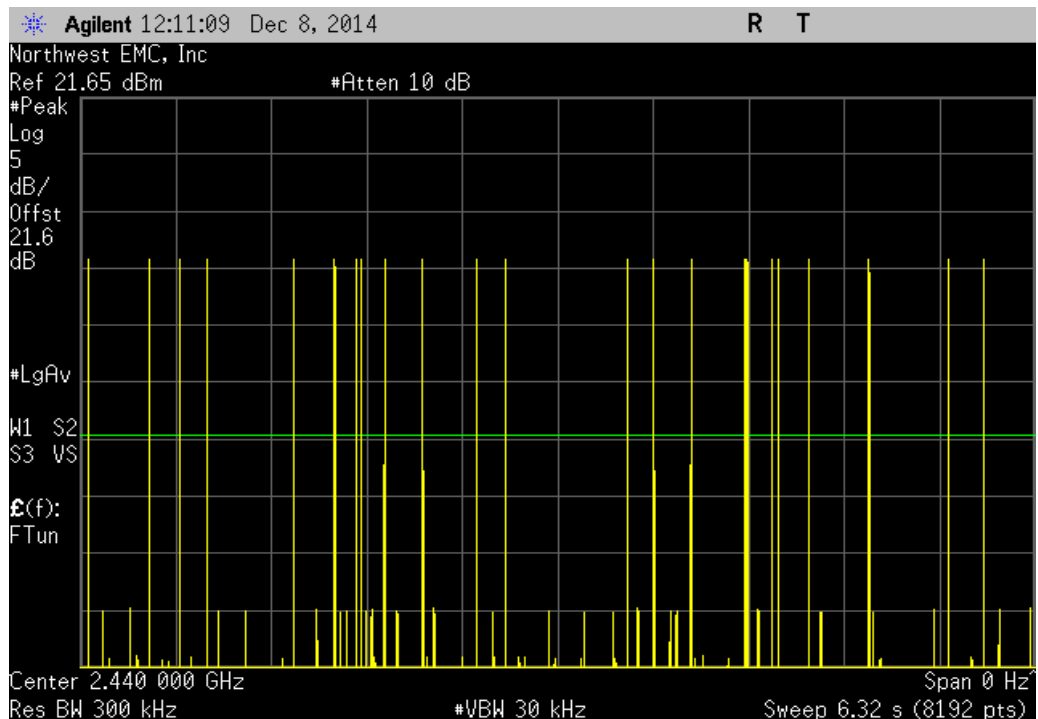
Calculation Only

No Screen Capture Required

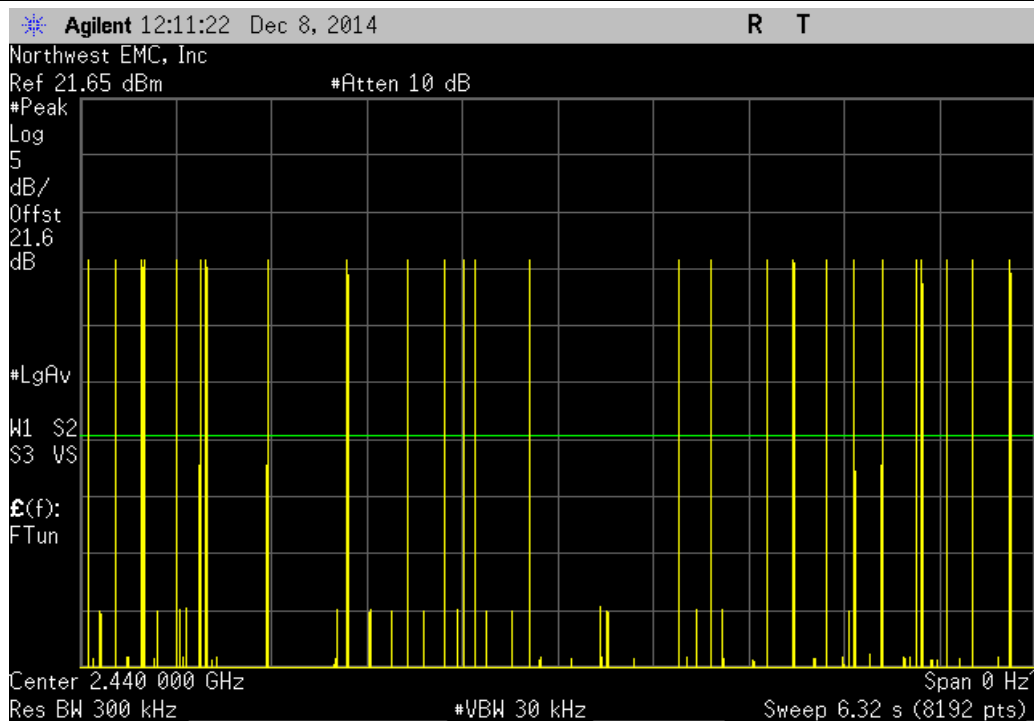
Hopping Mode, 2DH5, pi/4-DQPSK, Mid Channel, 2440 MHz						
Pulse Width (ms)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (ms) During 31.6 s	Limit (ms)	Results
2.902	N/A	N/A	N/A	N/A	N/A	N/A



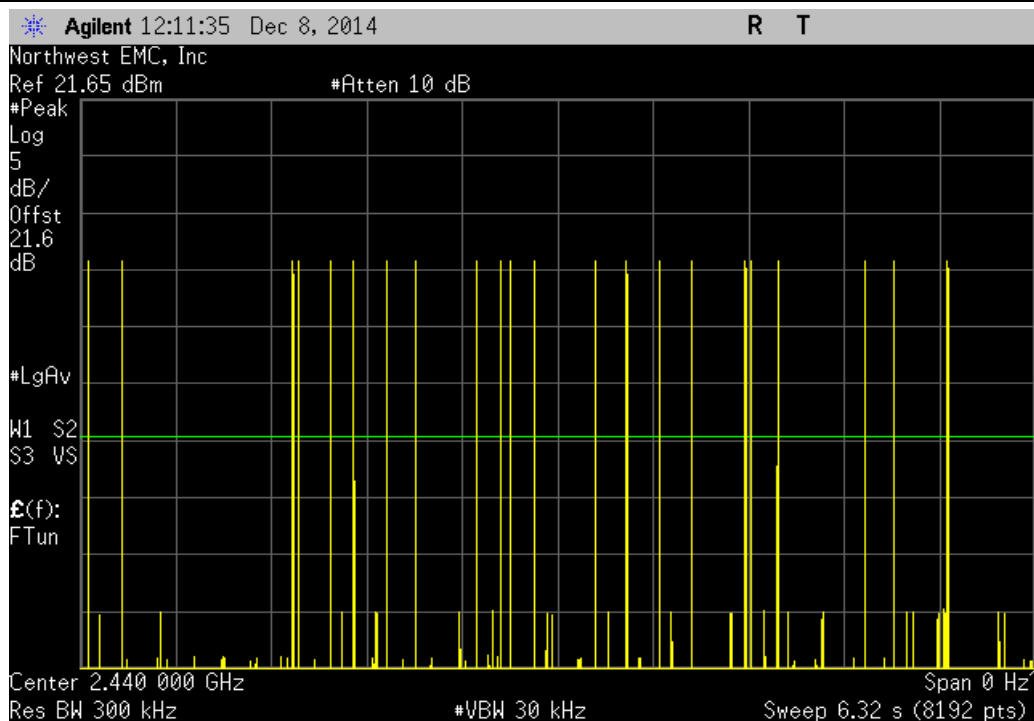
Hopping Mode, 2DH5, pi/4-DQPSK, Mid Channel, 2440 MHz						
Pulse Width (ms)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (ms) During 31.6 s	Limit (ms)	Results
N/A	23	N/A	N/A	N/A	N/A	N/A



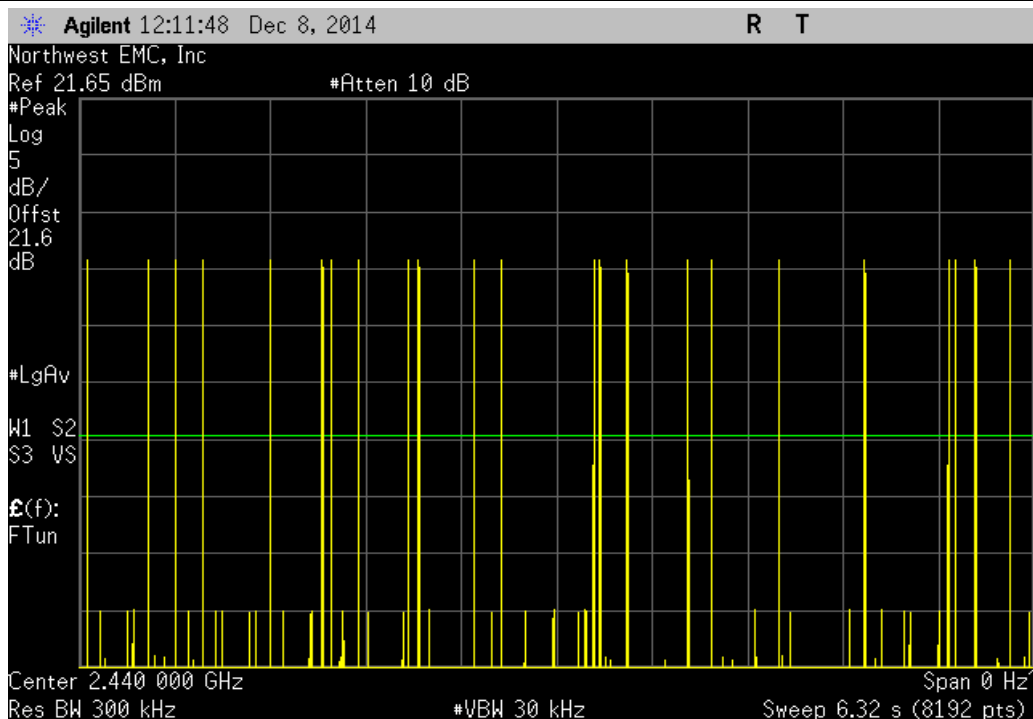
Hopping Mode, 2DH5, pi/4-DQPSK, Mid Channel, 2440 MHz						
Pulse Width (ms)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (ms) During 31.6 s	Limit (ms)	Results
N/A	26	N/A	N/A	N/A	N/A	N/A



Hopping Mode, 2DH5, pi/4-DQPSK, Mid Channel, 2440 MHz						
Pulse Width (ms)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (ms) During 31.6 s	Limit (ms)	Results
N/A	22	N/A	N/A	N/A	N/A	N/A



Hopping Mode, 2DH5, pi/4-DQPSK, Mid Channel, 2440 MHz						
Pulse Width (ms)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (ms) During 31.6 s	Limit (ms)	Results
N/A	23	N/A	N/A	N/A	N/A	N/A

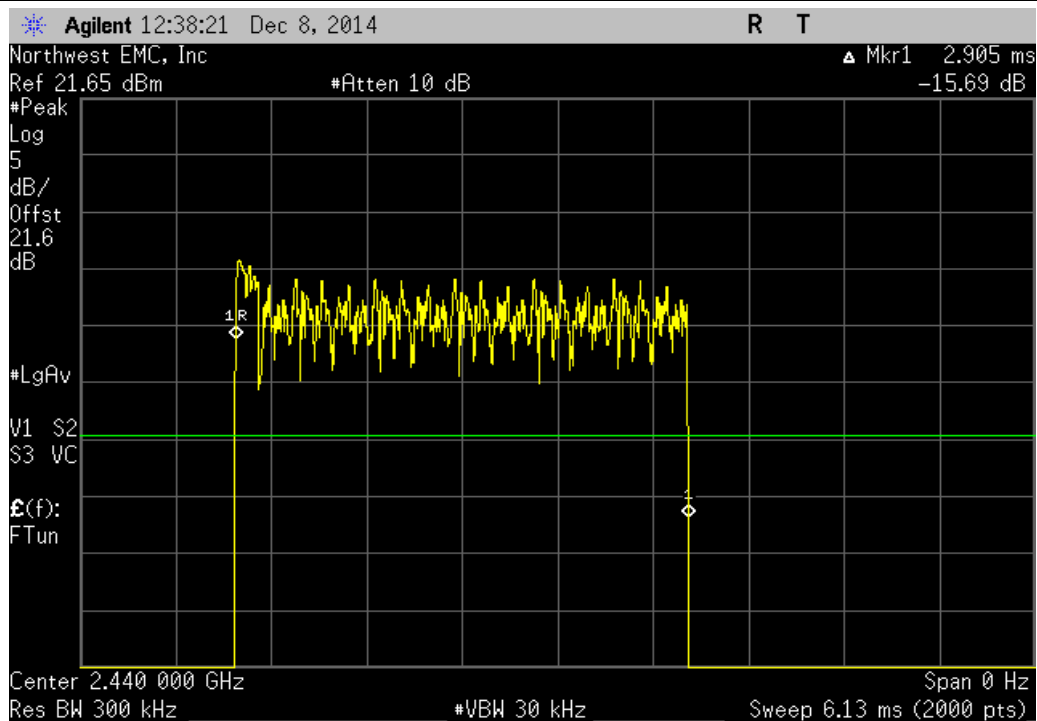


Hopping Mode, 2DH5, pi/4-DQPSK, Mid Channel, 2440 MHz						
Pulse Width (ms)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (ms) During 31.6 s	Limit (ms)	Results
2.902	N/A	23.5	5	340.99	400	Pass

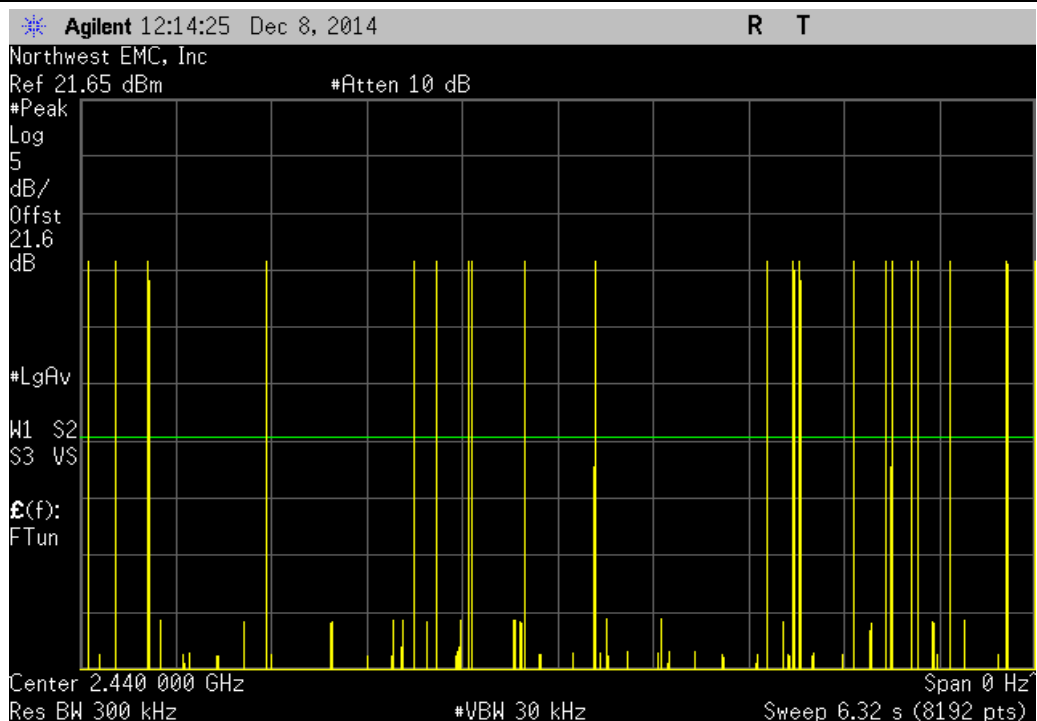
Calculation Only

No Screen Capture Required

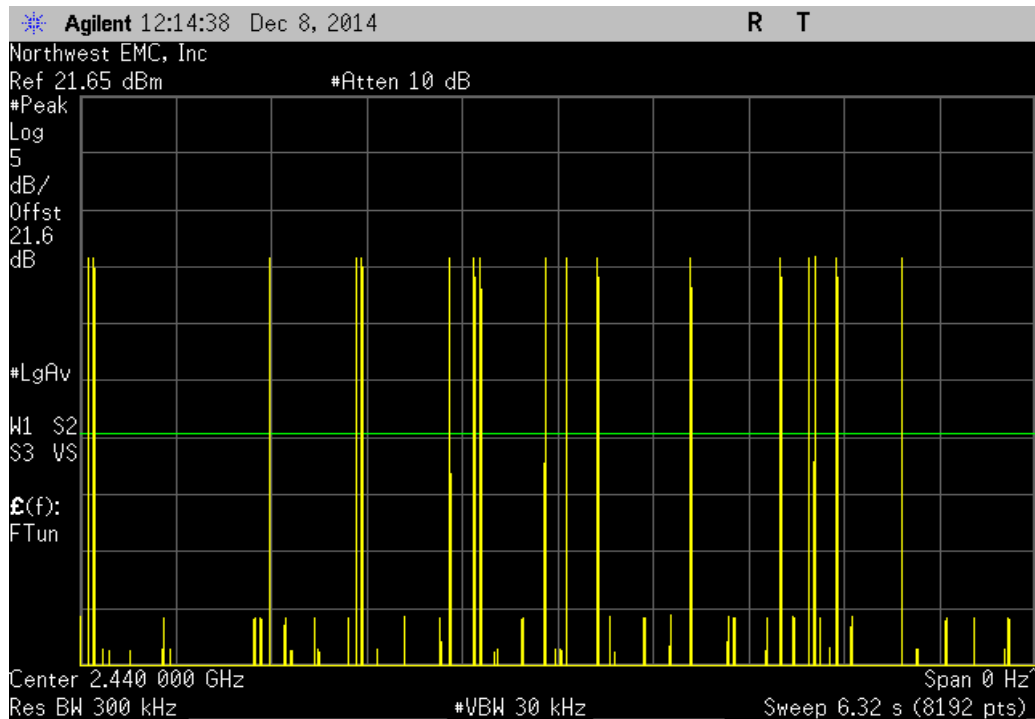
Hopping Mode, 3DH5, 8-DPSK, Mid Channel, 2440 MHz						
Pulse Width (ms)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (ms) During 31.6 s	Limit (ms)	Results
2.905	N/A	N/A	N/A	N/A	N/A	N/A



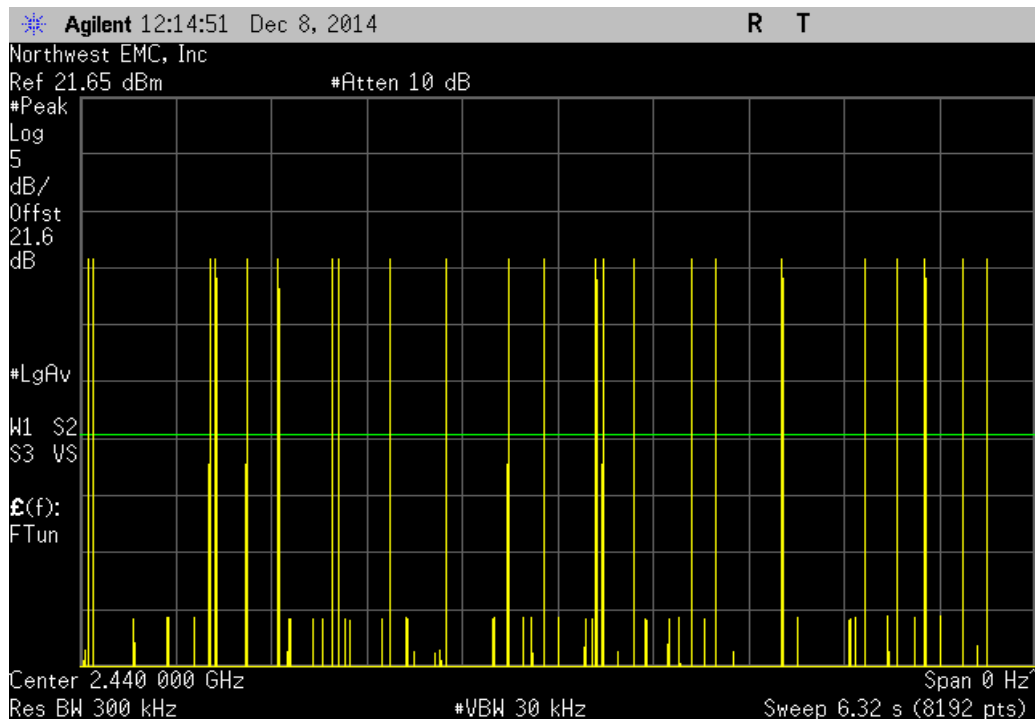
Hopping Mode, 3DH5, 8-DPSK, Mid Channel, 2440 MHz						
Pulse Width (ms)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (ms) During 31.6 s	Limit (ms)	Results
N/A	21	N/A	N/A	N/A	N/A	N/A



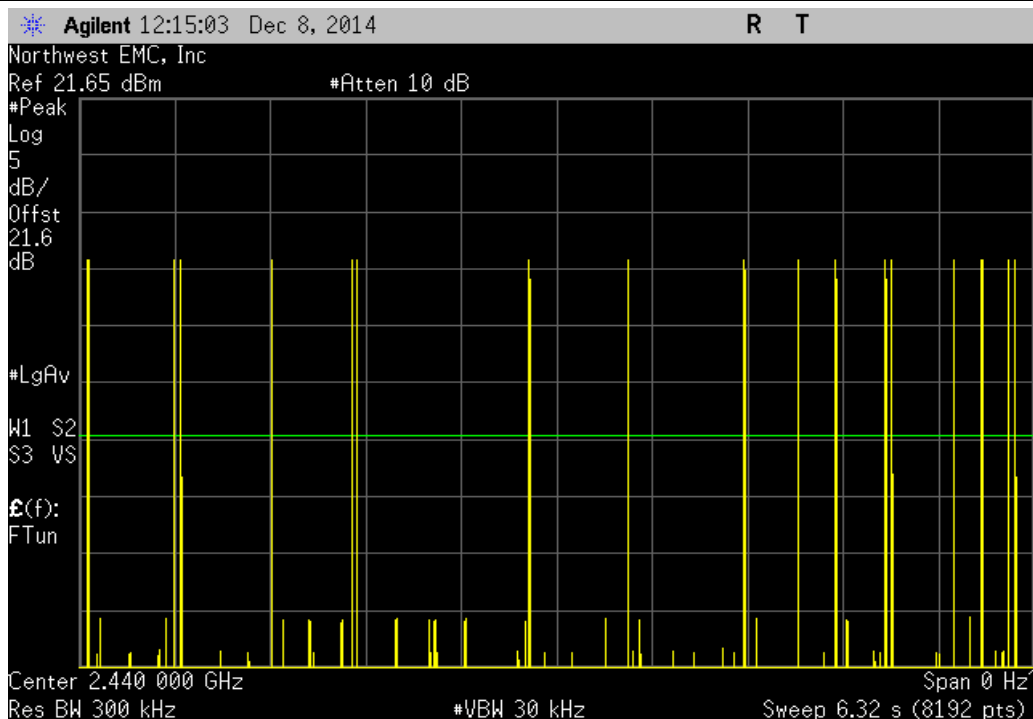
Hopping Mode, 3DH5, 8-DPSK, Mid Channel, 2440 MHz						
Pulse Width (ms)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (ms) During 31.6 s	Limit (ms)	Results
N/A	17	N/A	N/A	N/A	N/A	N/A



Hopping Mode, 3DH5, 8-DPSK, Mid Channel, 2440 MHz						
Pulse Width (ms)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (ms) During 31.6 s	Limit (ms)	Results
N/A	23	N/A	N/A	N/A	N/A	N/A



Hopping Mode, 3DH5, 8-DPSK, Mid Channel, 2440 MHz						
Pulse Width (ms)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (ms) During 31.6 s	Limit (ms)	Results
N/A	19	N/A	N/A	N/A	N/A	N/A



Hopping Mode, 3DH5, 8-DPSK, Mid Channel, 2440 MHz						
Pulse Width (ms)	Number of Pulses	Average No. of Pulses	Scale Factor	On Time (ms) During 31.6 s	Limit (ms)	Results
2.905	N/A	20	5	290.50	400	Pass

Calculation Only

No Screen Capture Required

DUTY CYCLE

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.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval (mos)
MN08 Direct Connect Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNU	10/2/2014	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC Block	Fairview Microwave	SD3379	AMI	10/2/2014	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	8/12/2014	36
Spectrum Analyzer	Agilent	E4440A	AAX	4/28/2014	12

TEST DESCRIPTION

The Duty Cycle (x) of the single channel operation of the radio as controlled by the provided test software was measured for each of the EUT operating modes.

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used.

The duty cycle was calculated by dividing the transmission pulse duration (T) by the total period of a single on and total off time.

If the transmit duty cycle < 98 percent, burst gating was used during some of the other tests in this report to only measure during the burst duration.

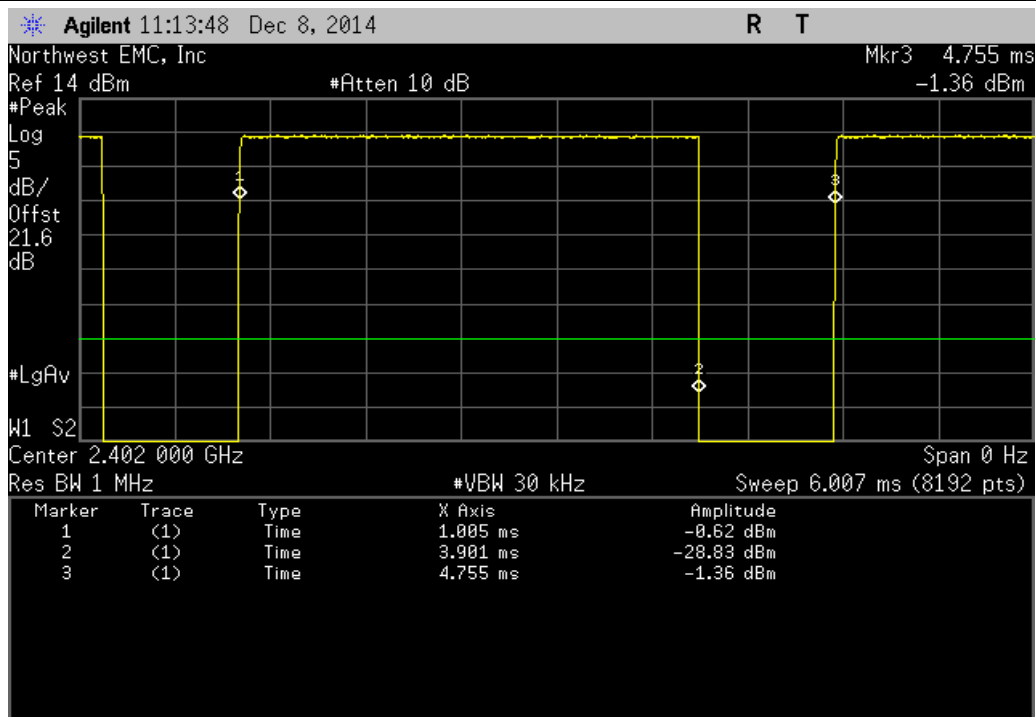


DUTY CYCLE

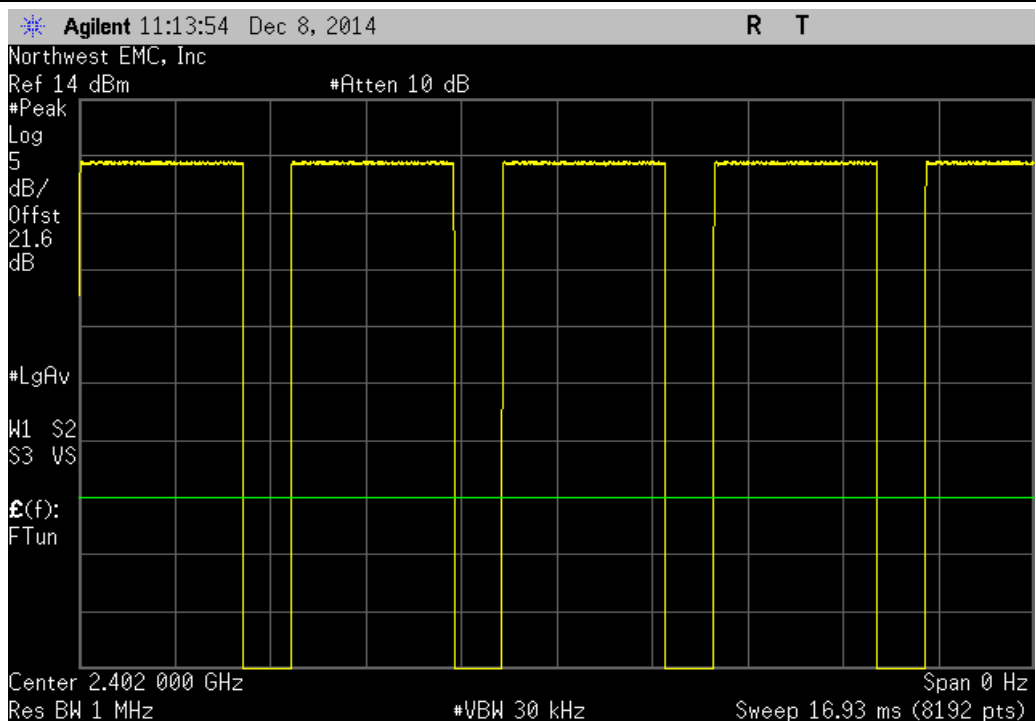
XMit 2014.02.07
NweTx 2014.11.06

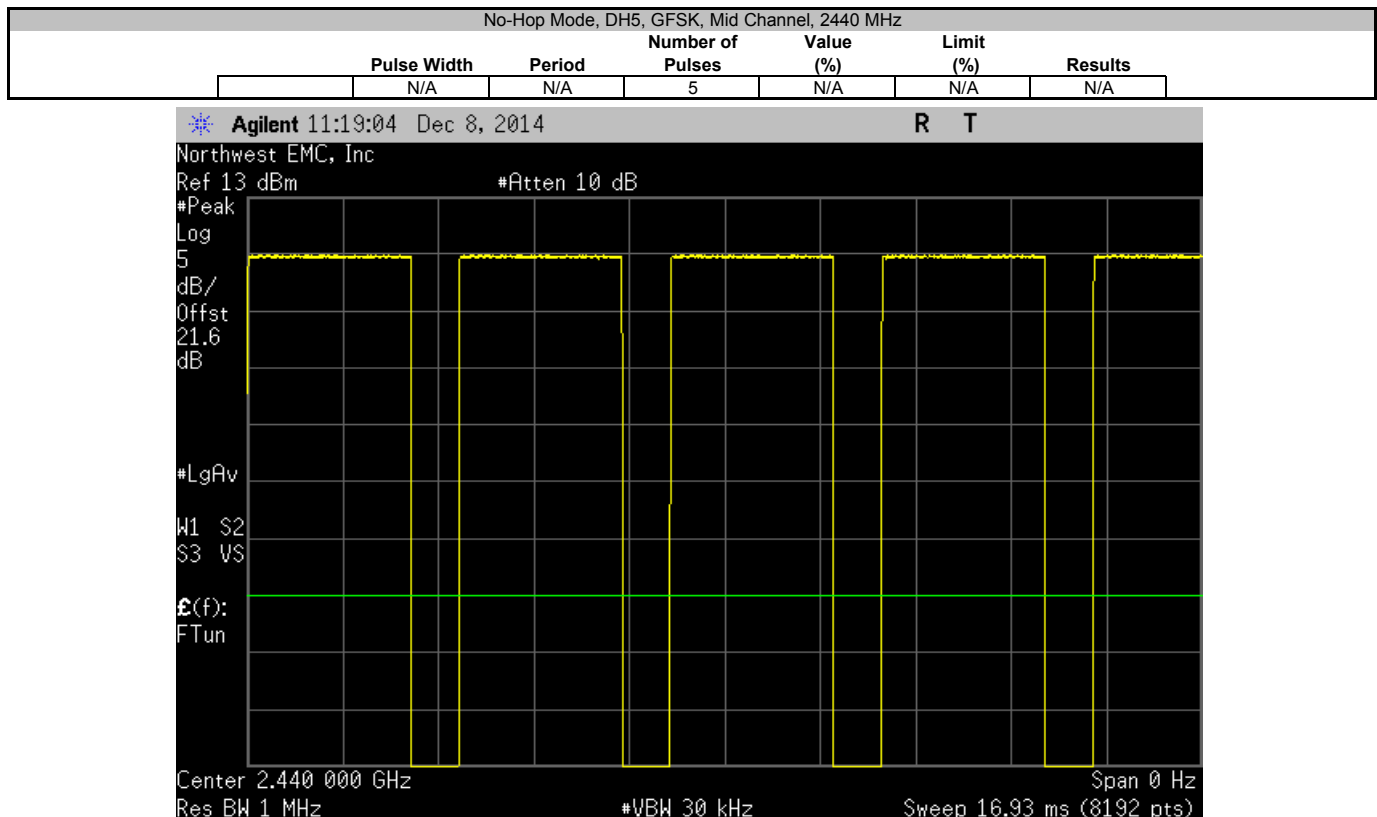
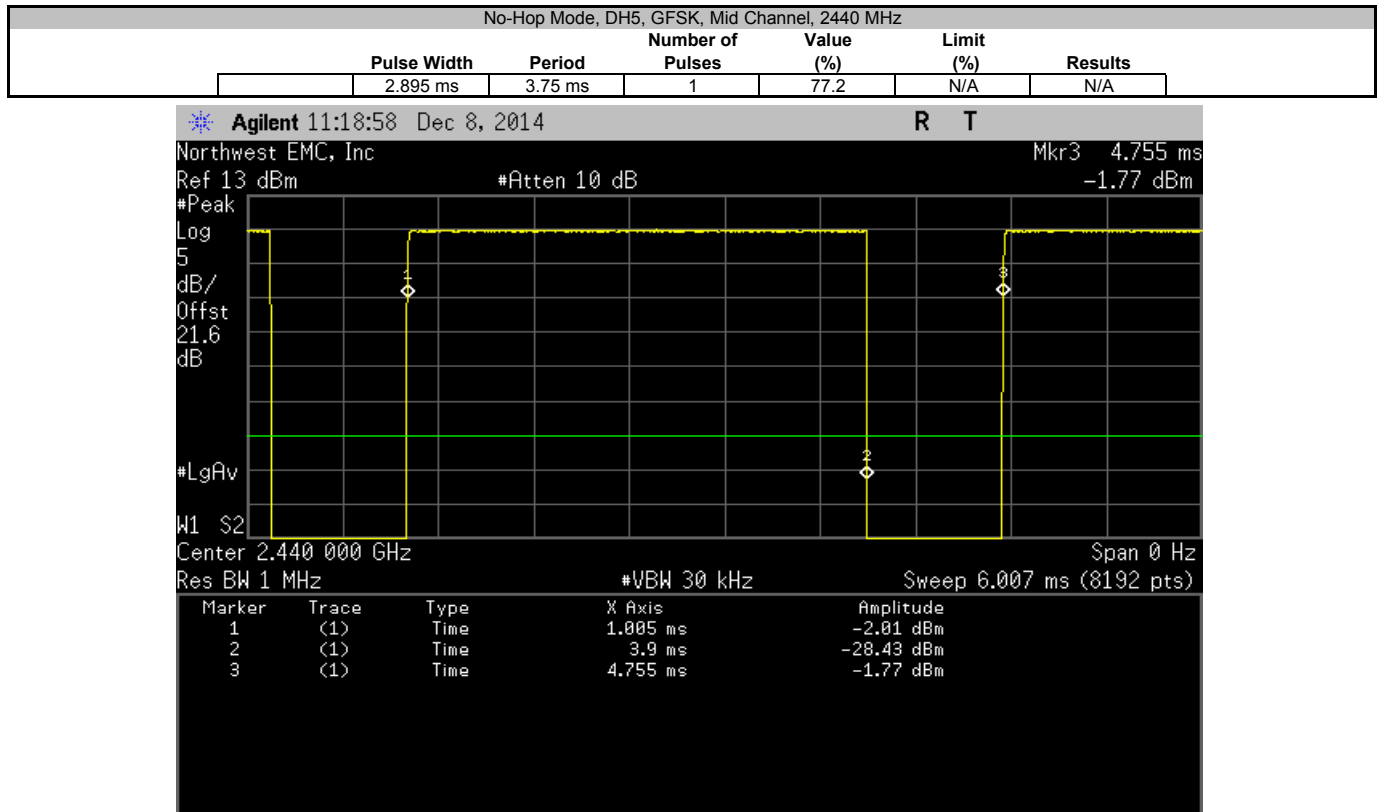
EUT: ConnectCore i.MX6 WiFi/Bluetooth		Work Order: ETHE0018					
Serial Number: 00409D 7C03D2		Date: 12/08/14					
Customer: Etherios Design Solutions		Temperature: 22°C					
Attendees: None		Humidity: 22%					
Project: None		Barometric Pres.: 1019.6					
Tested by: Trevor Buls		Power: 5VDC					
Job Site: MN08							
TEST SPECIFICATIONS		Test Method					
FCC 15.247:2015		ANSI C63.10:2009					
COMMENTS							
None							
DEVIATIONS FROM TEST STANDARD							
None							
Configuration #	1	Signature <i>Trevor Buls</i>					
		Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
No-Hop Mode							
DH5, GFSK							
Low Channel, 2402 MHz		2.895 ms	3.75 ms	1	77.2	N/A	N/A
Low Channel, 2402 MHz		N/A	N/A	5	N/A	N/A	N/A
Mid Channel, 2440 MHz		2.895 ms	3.75 ms	1	77.2	N/A	N/A
Mid Channel, 2440 MHz		N/A	N/A	5	N/A	N/A	N/A
High Channel, 2480 MHz		2.895 ms	3.75 ms	1	77.2	N/A	N/A
High Channel, 2480 MHz		N/A	N/A	5	N/A	N/A	N/A
2DH5, pi/4-DQPSK							
Low Channel, 2402 MHz		2.9 ms	3.75 ms	1	77.3	N/A	N/A
Low Channel, 2402 MHz		N/A	N/A	5	N/A	N/A	N/A
Mid Channel, 2440 MHz		2.9 ms	3.75 ms	1	77.3	N/A	N/A
Mid Channel, 2440 MHz		N/A	N/A	5	N/A	N/A	N/A
High Channel, 2480 MHz		2.9 ms	3.75 ms	1	77.4	N/A	N/A
High Channel, 2480 MHz		N/A	N/A	5	N/A	N/A	N/A
3DH5, 8-DPSK							
Low Channel, 2402 MHz		2.902 ms	3.75 ms	1	77.4	N/A	N/A
Low Channel, 2402 MHz		N/A	N/A	5	N/A	N/A	N/A
Mid Channel, 2440 MHz		2.903 ms	3.75 ms	1	77.4	N/A	N/A
Mid Channel, 2440 MHz		N/A	N/A	5	N/A	N/A	N/A
High Channel, 2480 MHz		2.902 ms	3.75 ms	1	77.4	N/A	N/A
High Channel, 2480 MHz		N/A	N/A	5	N/A	N/A	N/A

No-Hop Mode, DH5, GFSK, Low Channel, 2402 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
2.895 ms	3.75 ms	1	77.2	N/A	N/A	

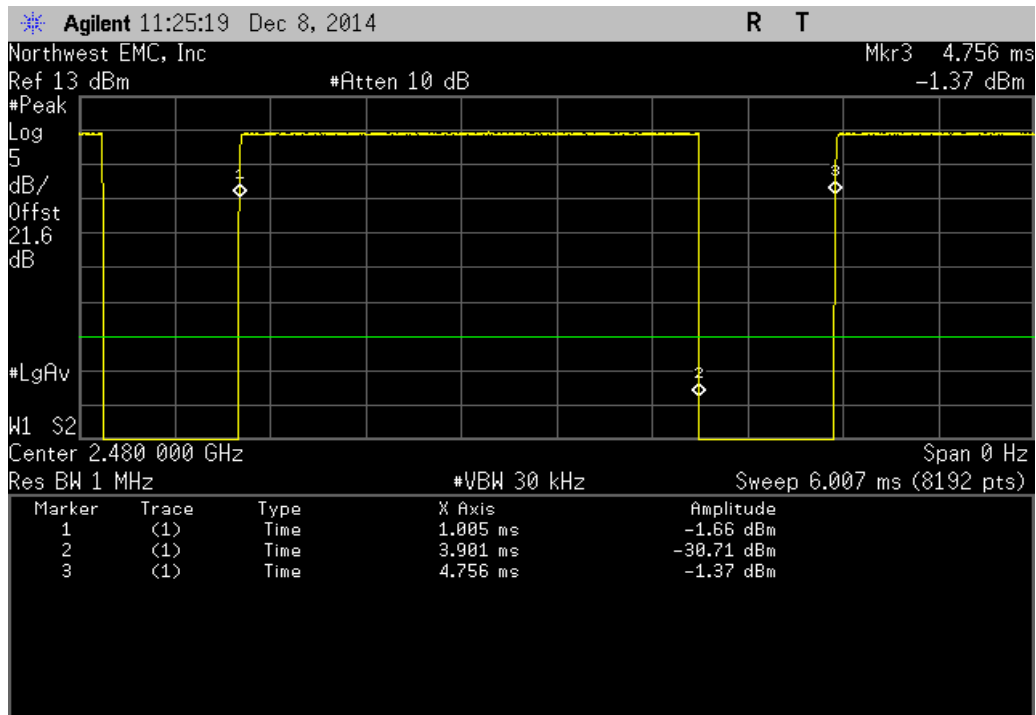


No-Hop Mode, DH5, GFSK, Low Channel, 2402 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

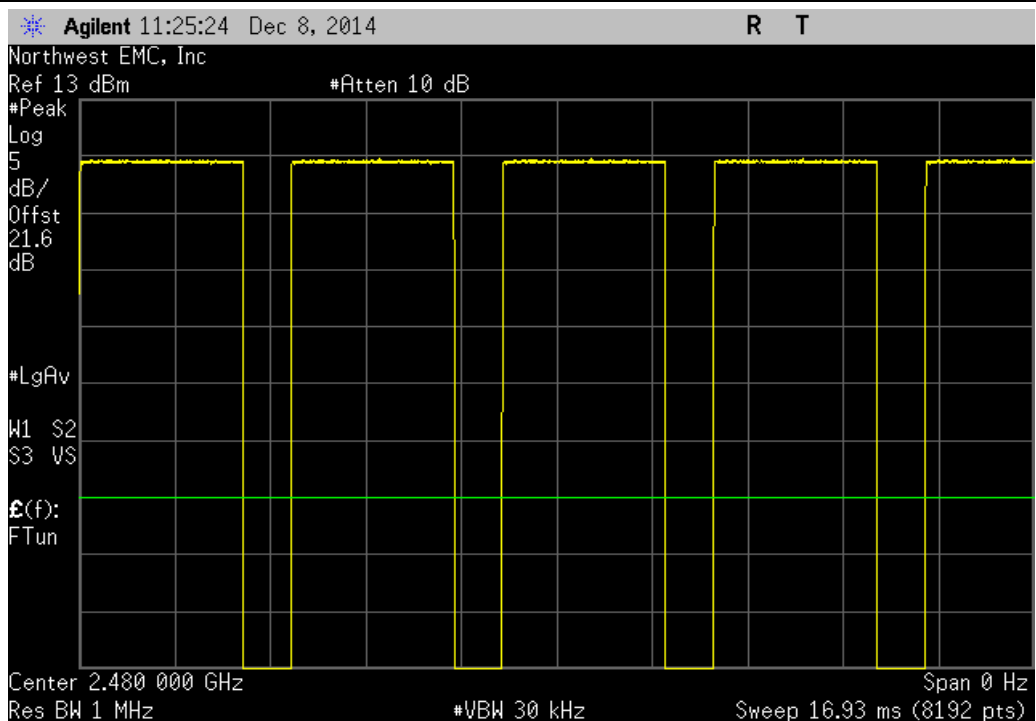




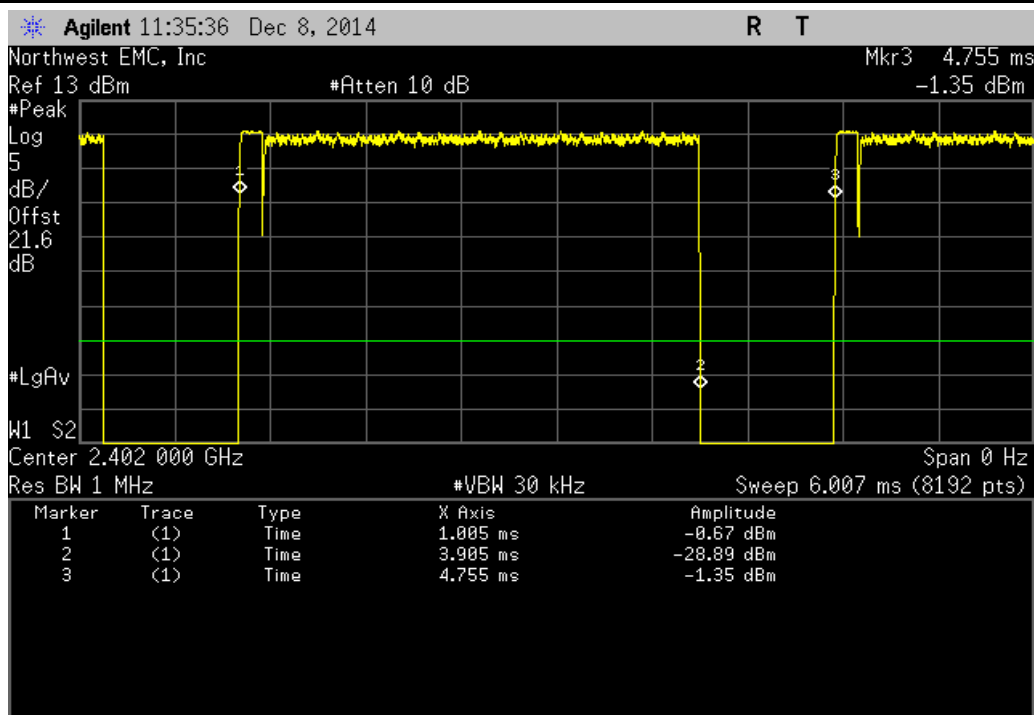
No-Hop Mode, DH5, GFSK, High Channel, 2480 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
2.895 ms	3.75 ms	1	77.2	N/A	N/A	



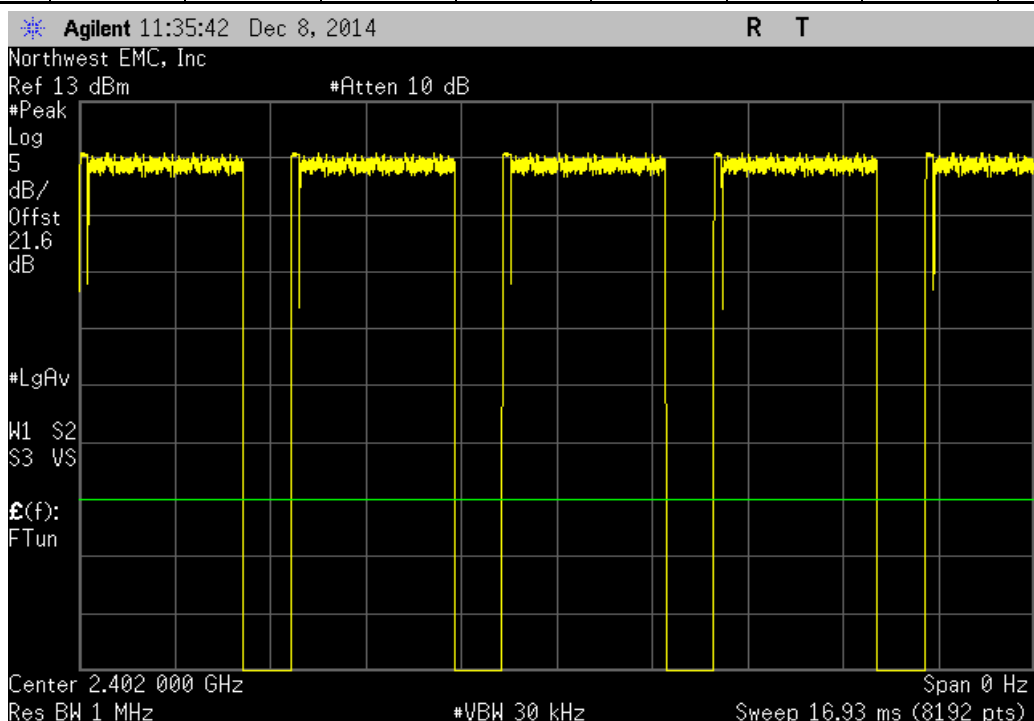
No-Hop Mode, DH5, GFSK, High Channel, 2480 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

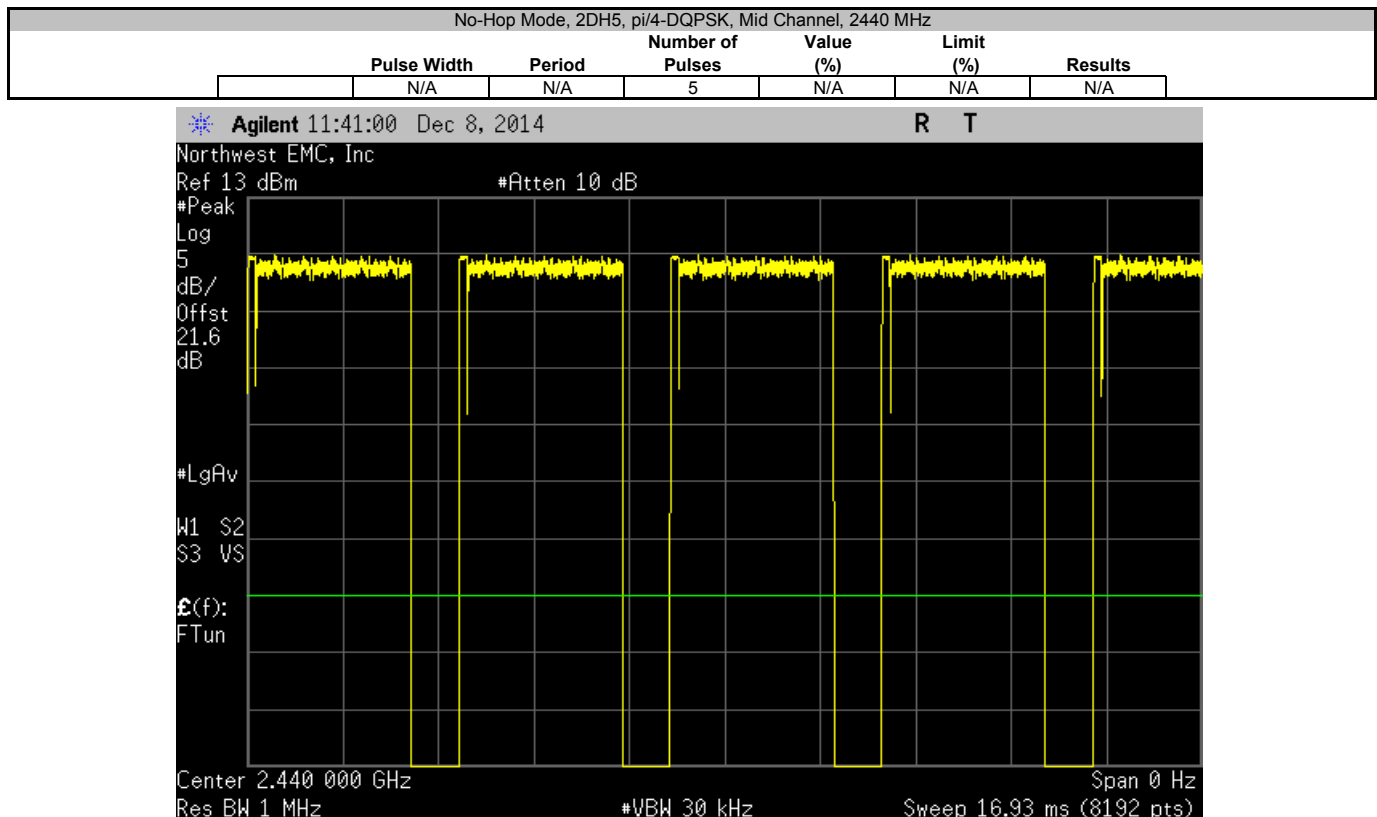
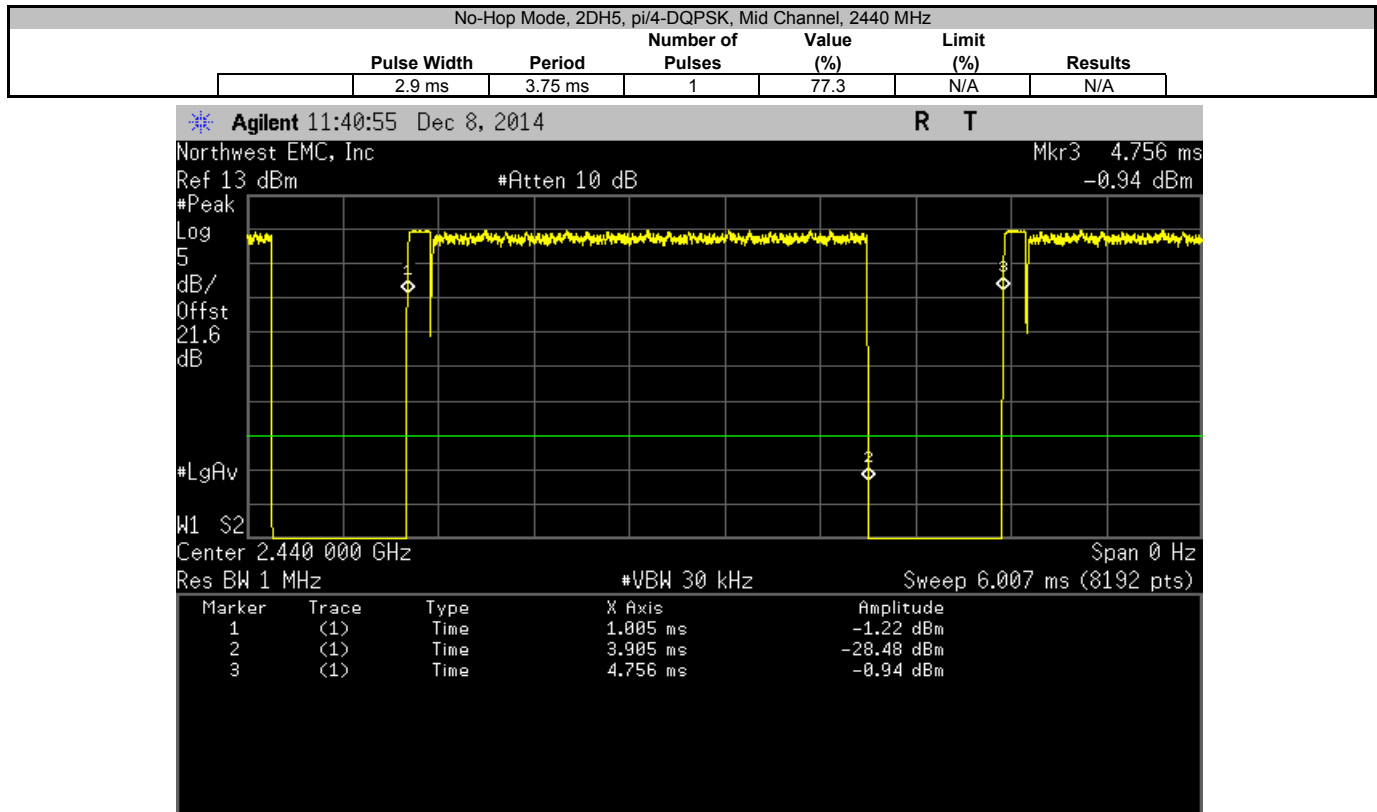


No-Hop Mode, 2DH5, pi/4-DQPSK, Low Channel, 2402 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
2.9 ms	3.75 ms	1	77.3	N/A	N/A	

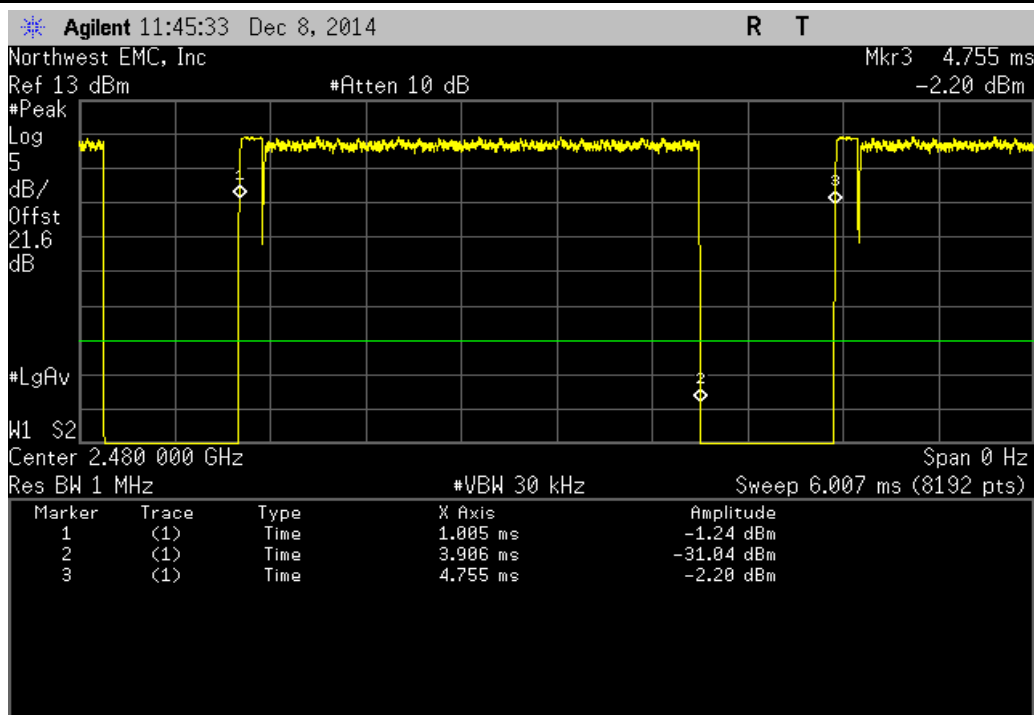


No-Hop Mode, 2DH5, pi/4-DQPSK, Low Channel, 2402 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

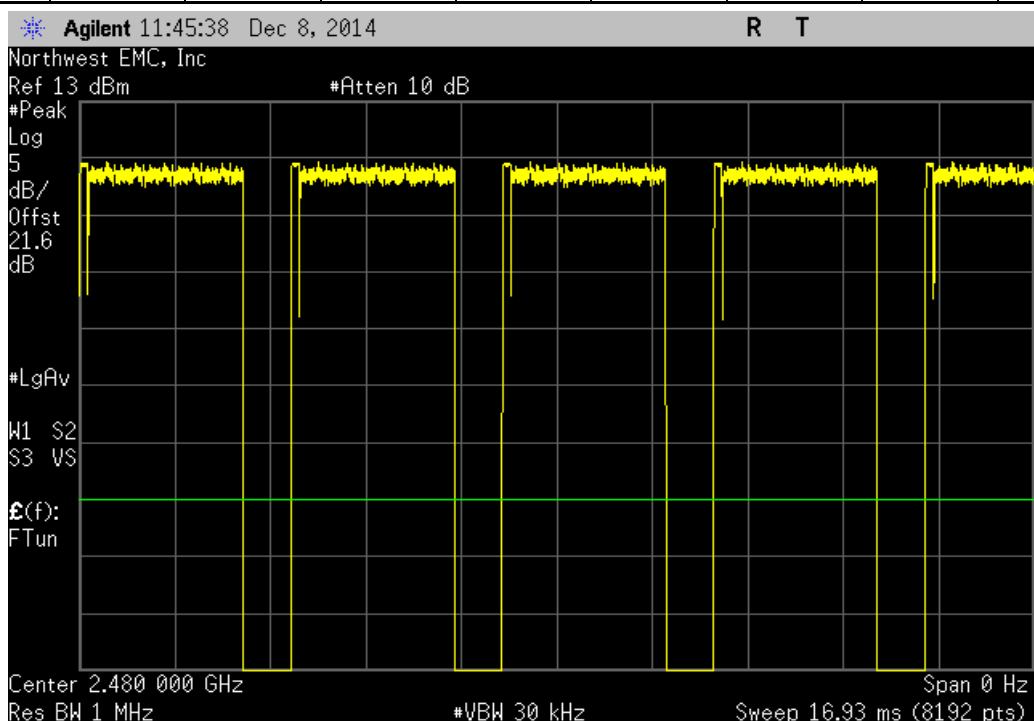


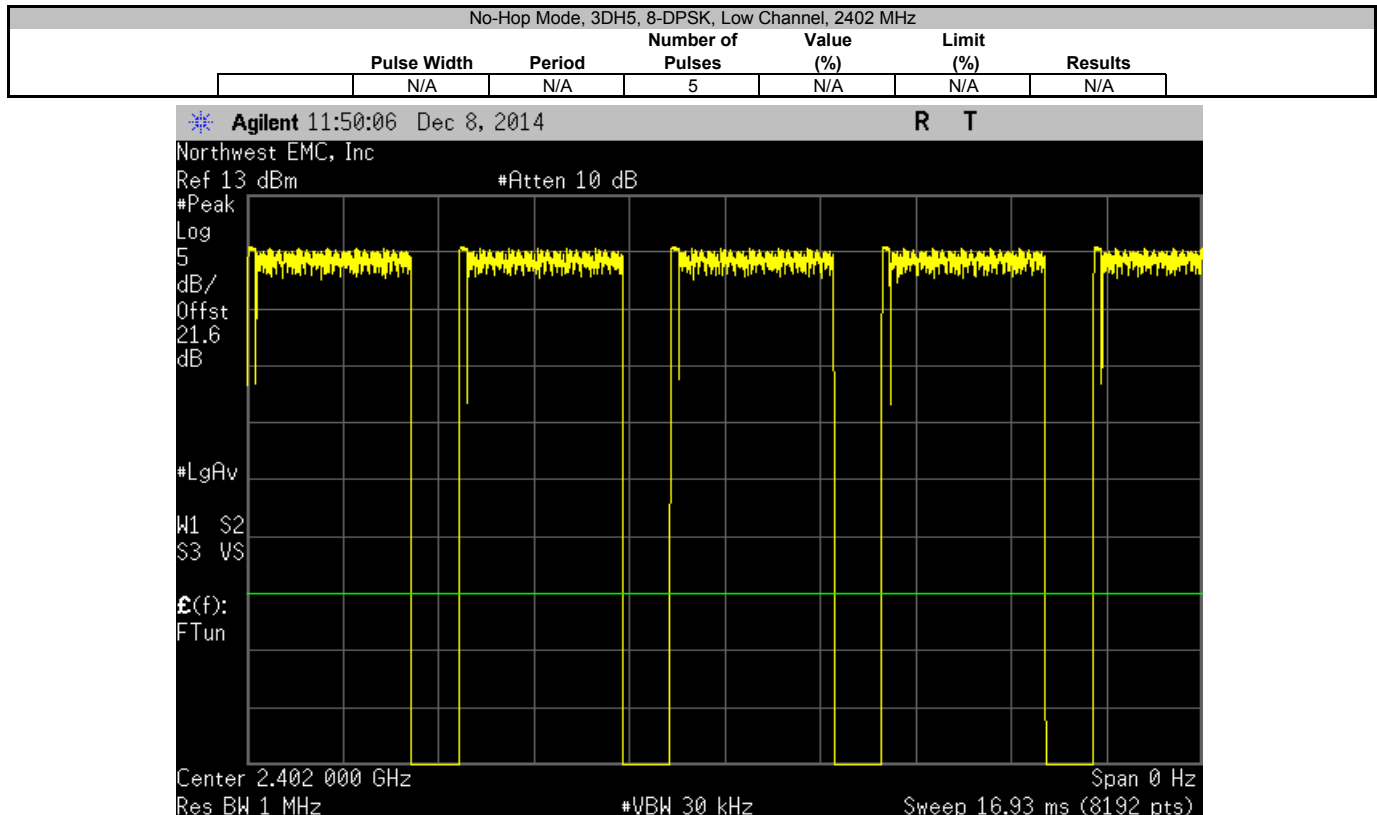
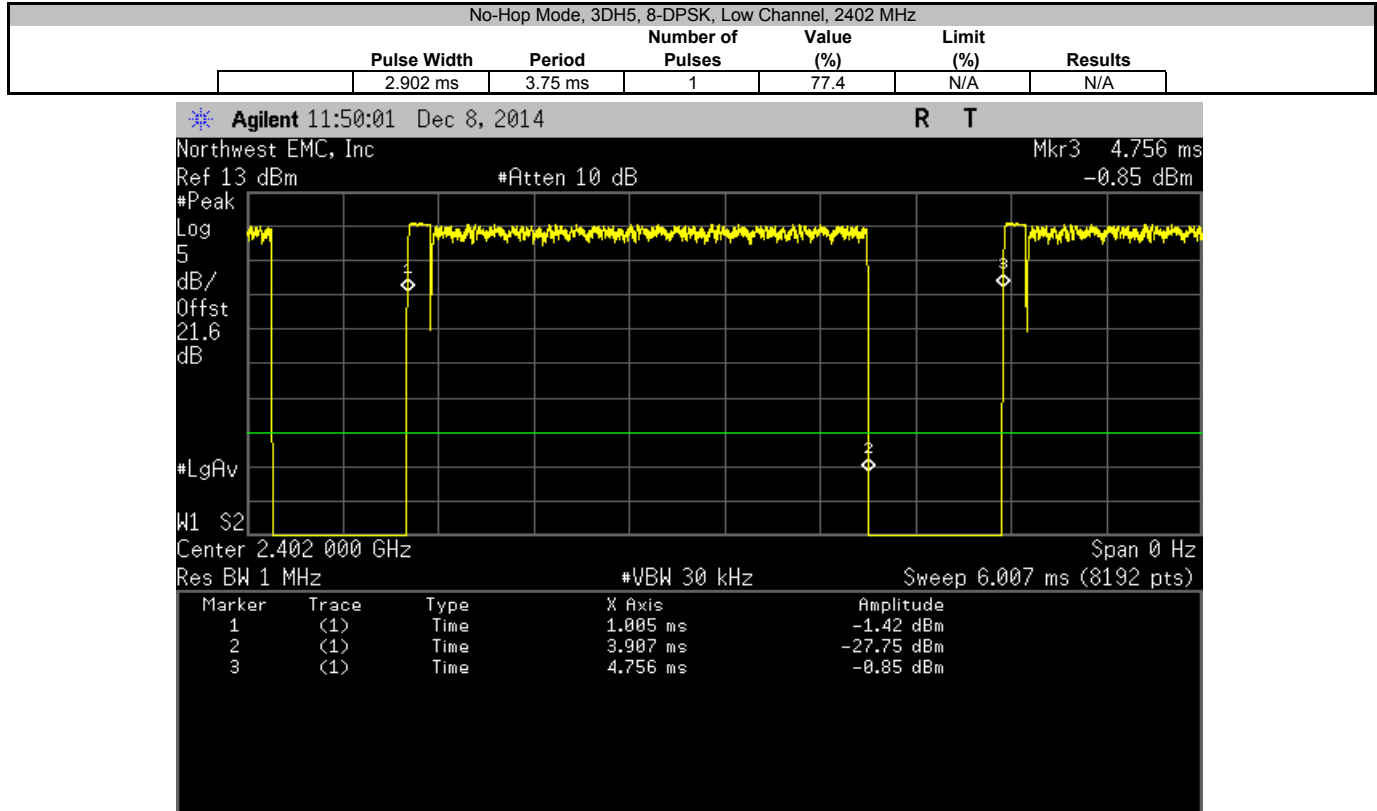


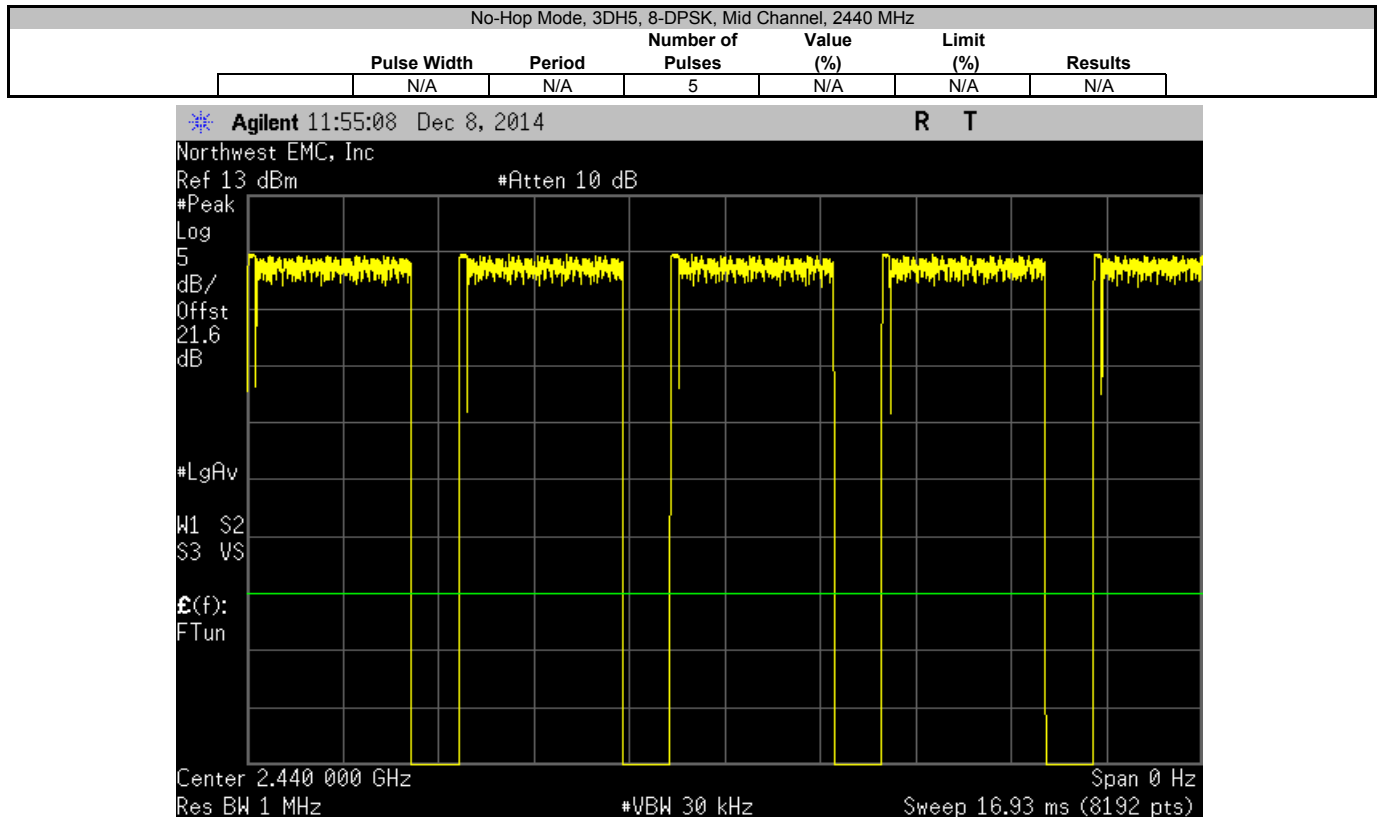
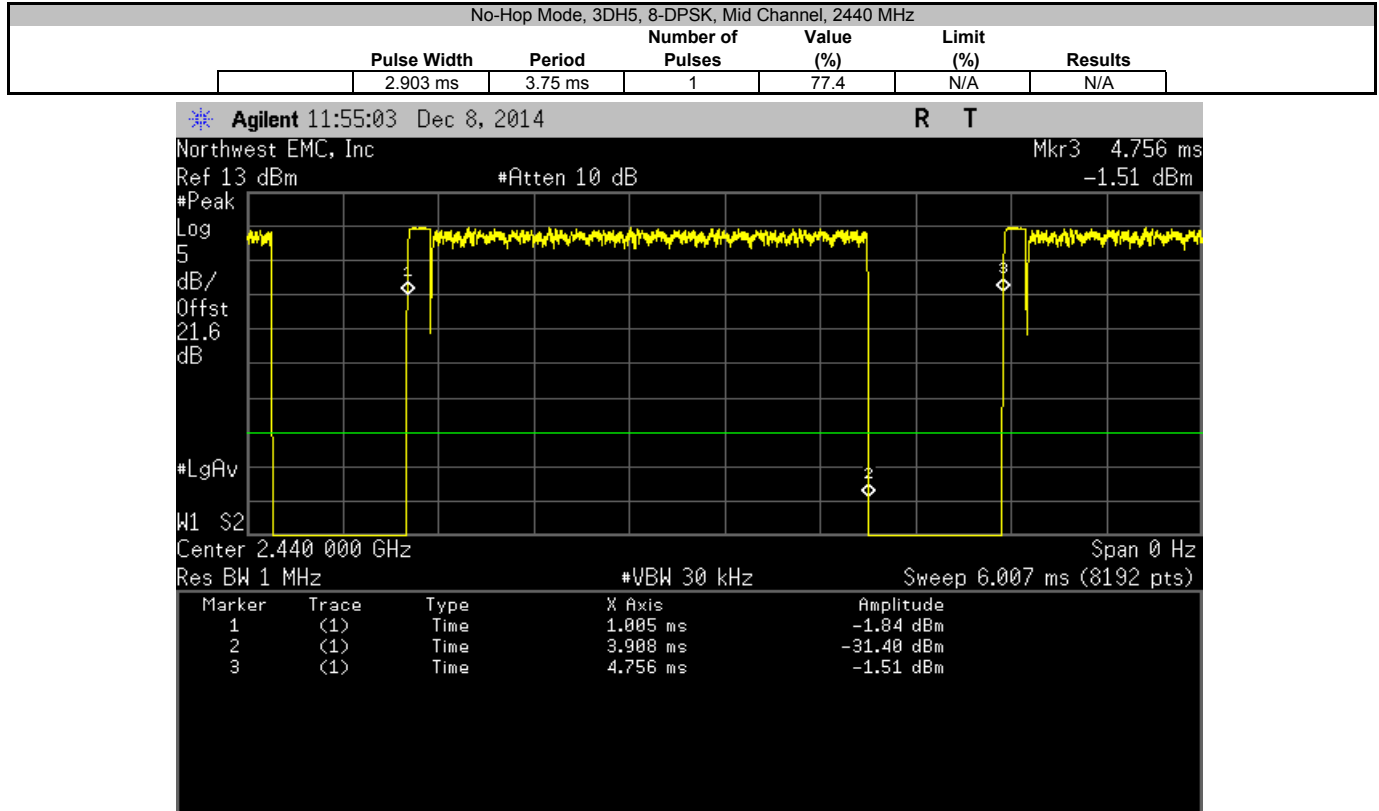
No-Hop Mode, 2DH5, pi/4-DQPSK, High Channel, 2480 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	2.9 ms	3.75 ms	1	77.4	N/A	N/A

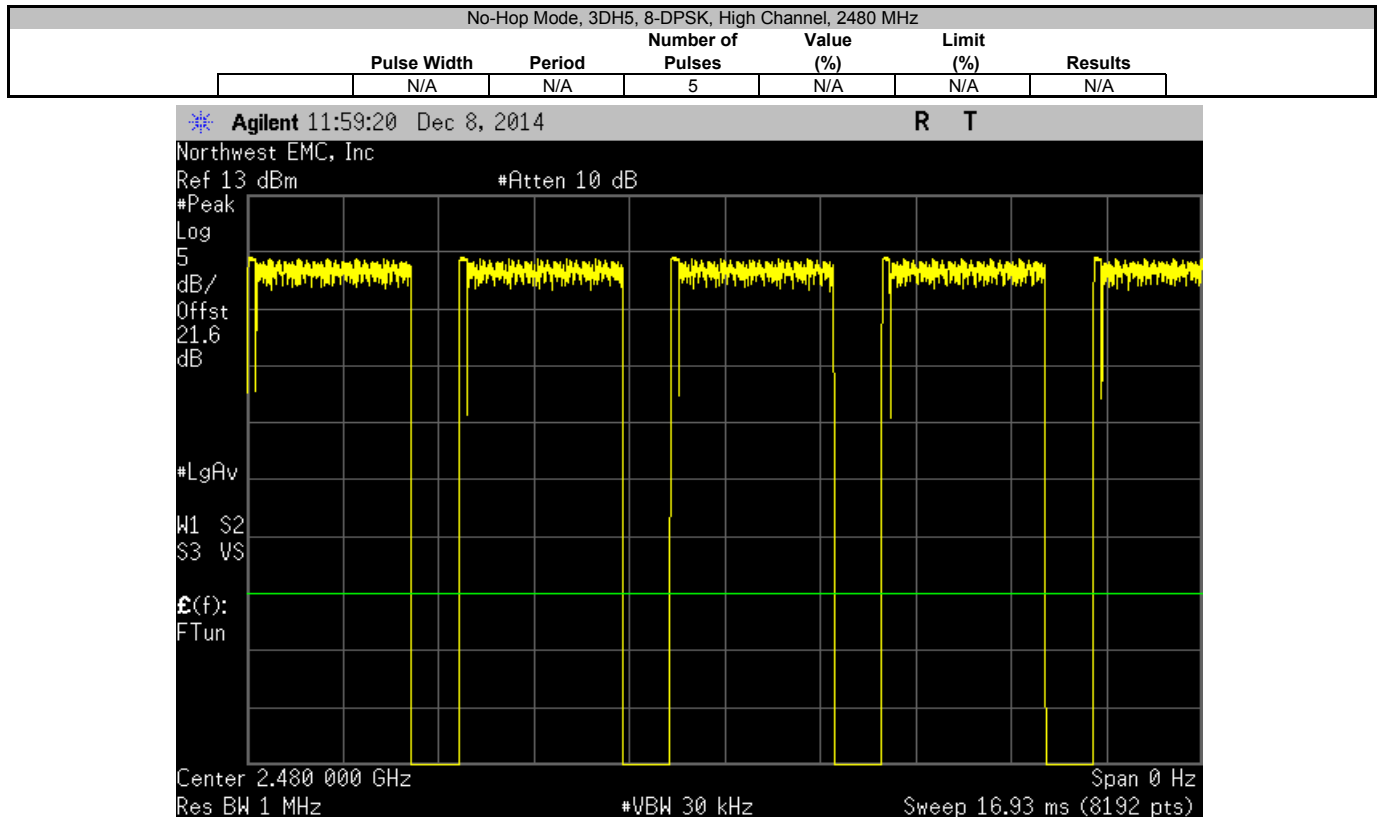
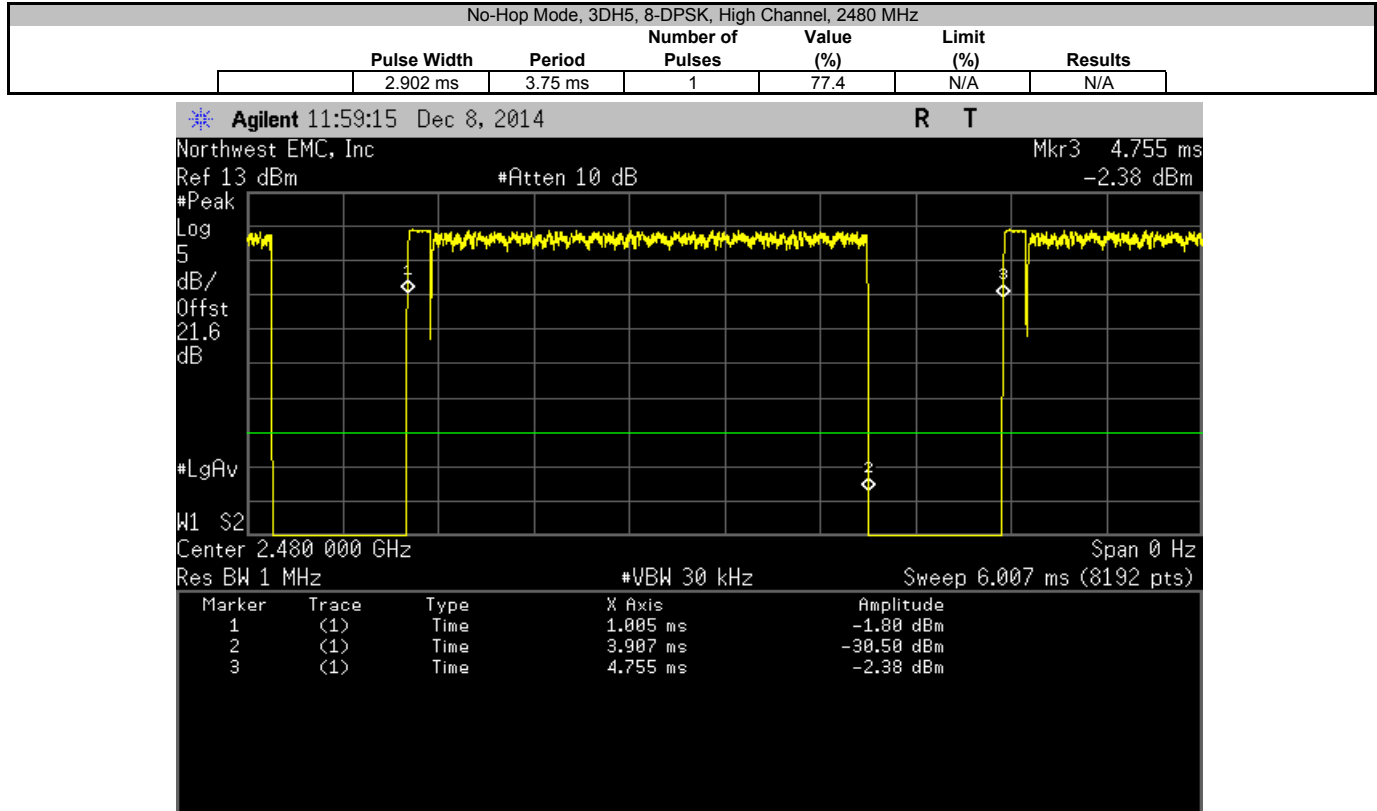


No-Hop Mode, 2DH5, pi/4-DQPSK, High Channel, 2480 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	5	N/A	N/A	N/A









BAND EDGE COMPLIANCE

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.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval (mos)
MN08 Direct Connect Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNU	10/2/2014	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC Block	Fairview Microwave	SD3379	AMI	10/2/2014	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	8/12/2014	36
Spectrum Analyzer	Agilent	E4440A	AAX	4/28/2014	12

TEST DESCRIPTION

The spurious RF conducted emissions at the edges of the authorized band were measured with the EUT set to low and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet in a no hop mode. The channels closest to the band edges were selected.

The spectrum was scanned below the lower band edge and above the higher band edge.

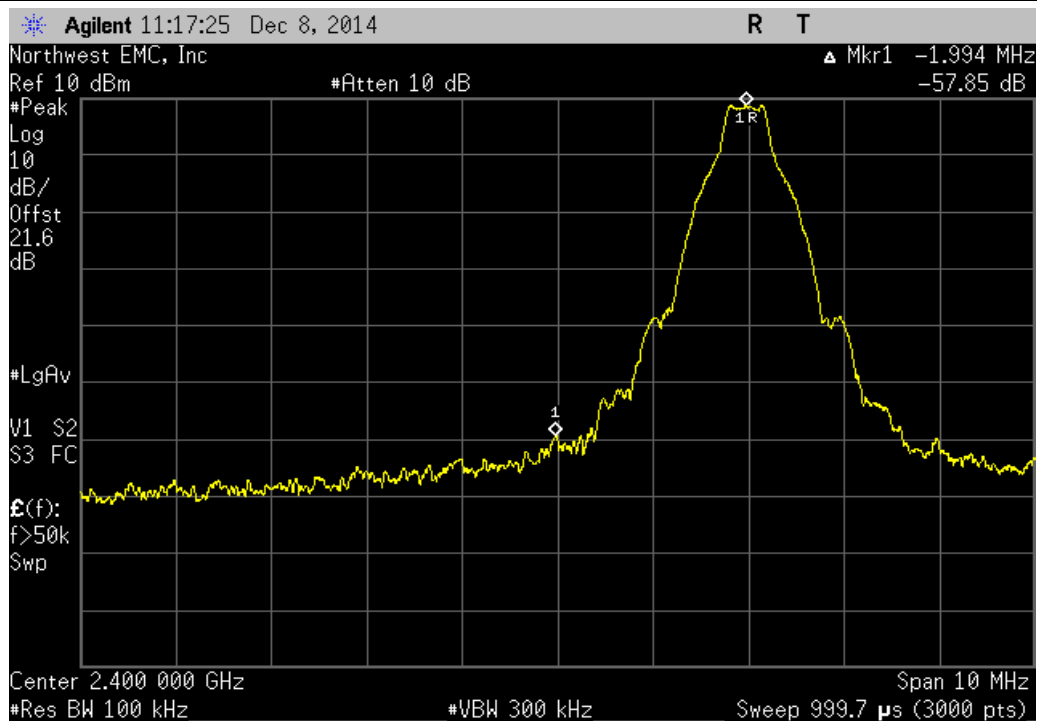


BAND EDGE COMPLIANCE

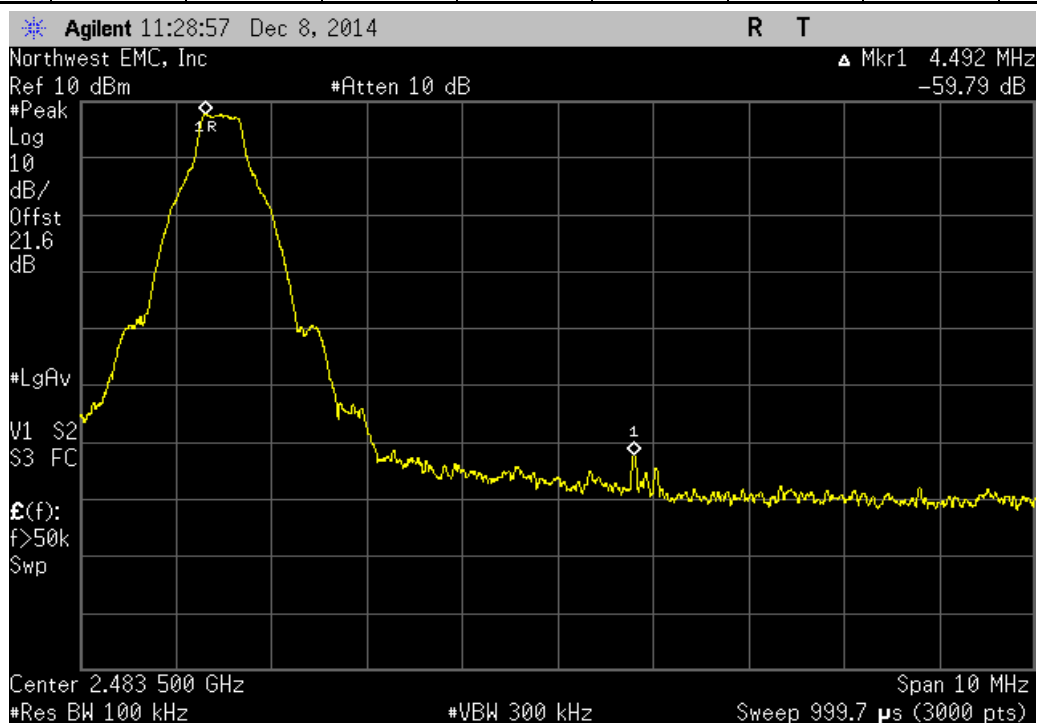
XMit 2014.02.07
NweTx 2014.11.06

EUT: ConnectCore i.MX6 WiFi/Bluetooth		Work Order: ETHE0018	
Serial Number: 00409D 7C03D2		Date: 12/08/14	
Customer: Etherios Design Solutions		Temperature: 22°C	
Attendees: None		Humidity: 22%	
Project: None		Barometric Pres.: 1019.6	
Tested by: Trevor Buls		Power: 5VDC	
		Job Site: MN08	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2015		ANSI C63.10:2009	
COMMENTS			
None			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature <i>Trevor Buls</i>	
		Value (dBc)	Limit ≤ (dBc)
		Result	
No-Hop Mode			
DH5, GFSK			
Low Channel, 2402 MHz		-57.85	-20
High Channel, 2480 MHz		-59.79	-20
2DH5, pi/4-DQPSK			
Low Channel, 2402 MHz		-57.13	-20
High Channel, 2480 MHz		-63.32	-20
3DH5, 8-DPSK			
Low Channel, 2402 MHz		-56.89	-20
High Channel, 2480 MHz		-63.45	-20

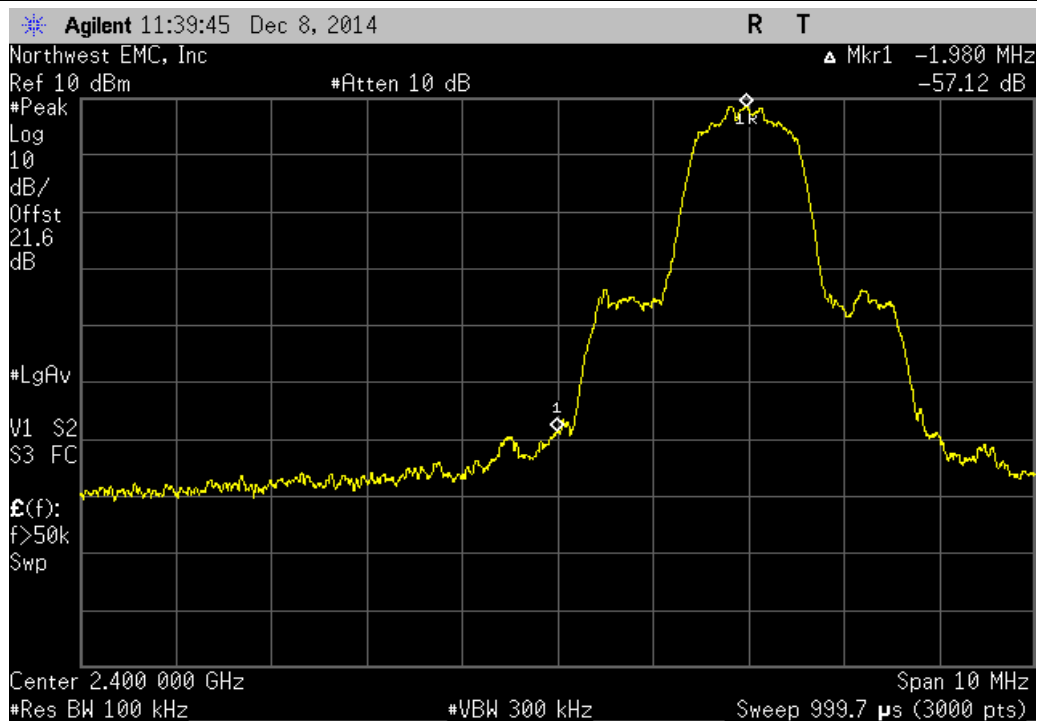
No-Hop Mode, DH5, GFSK, Low Channel, 2402 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-57.85	-20	Pass



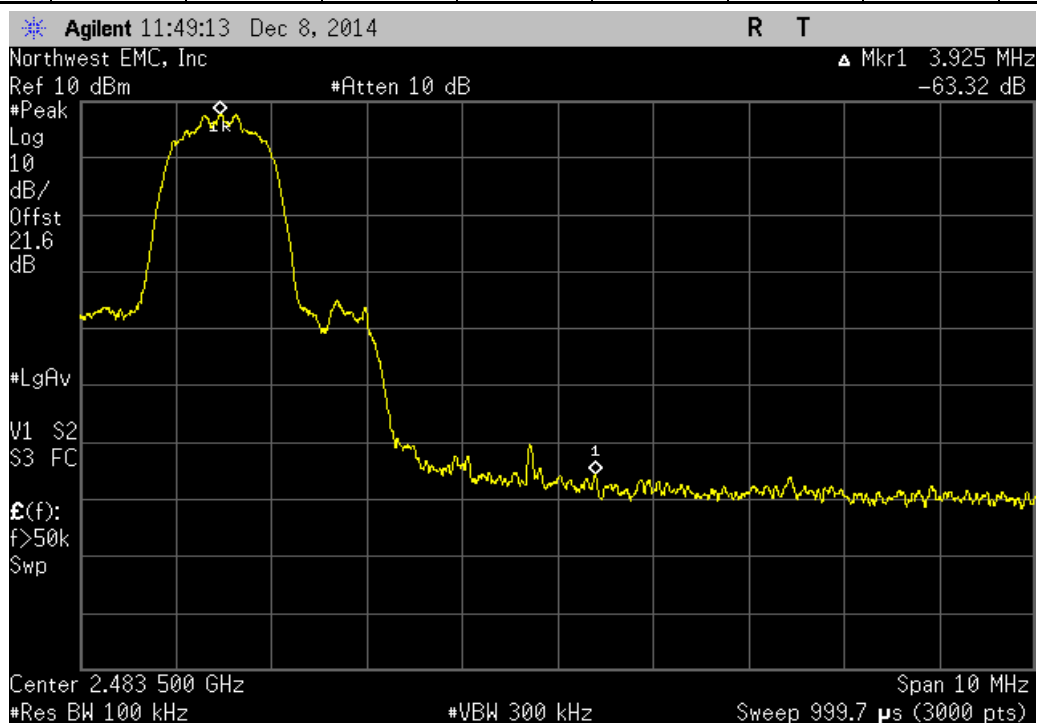
No-Hop Mode, DH5, GFSK, High Channel, 2480 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-59.79	-20	Pass



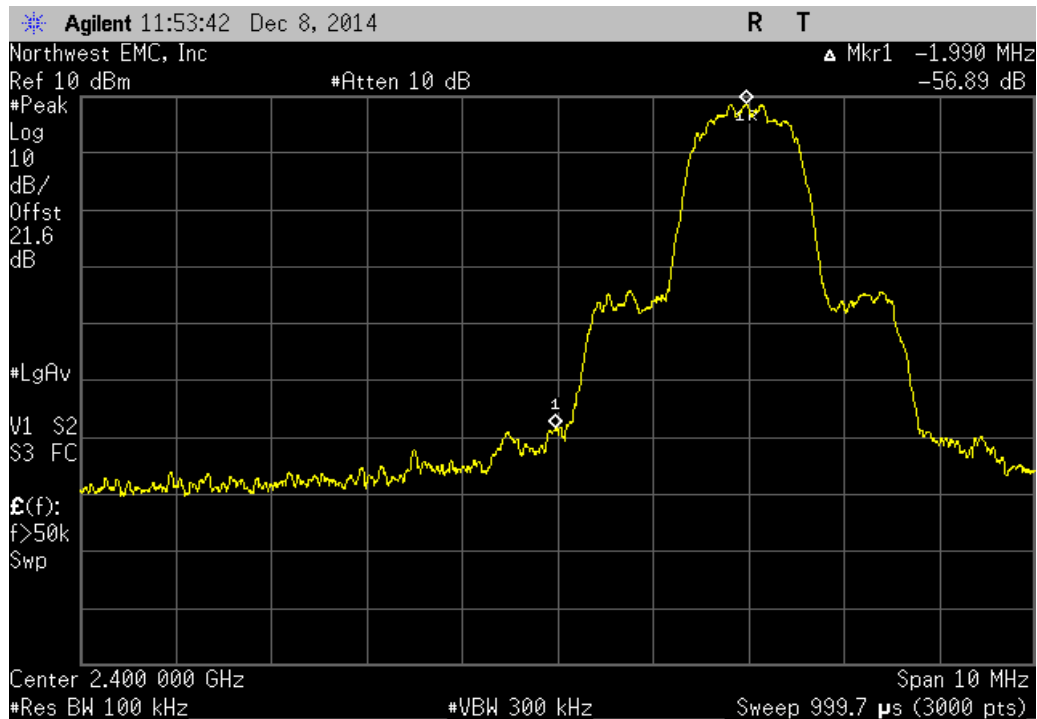
No-Hop Mode, 2DH5, pi/4-DQPSK, Low Channel, 2402 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-57.13	-20	Pass



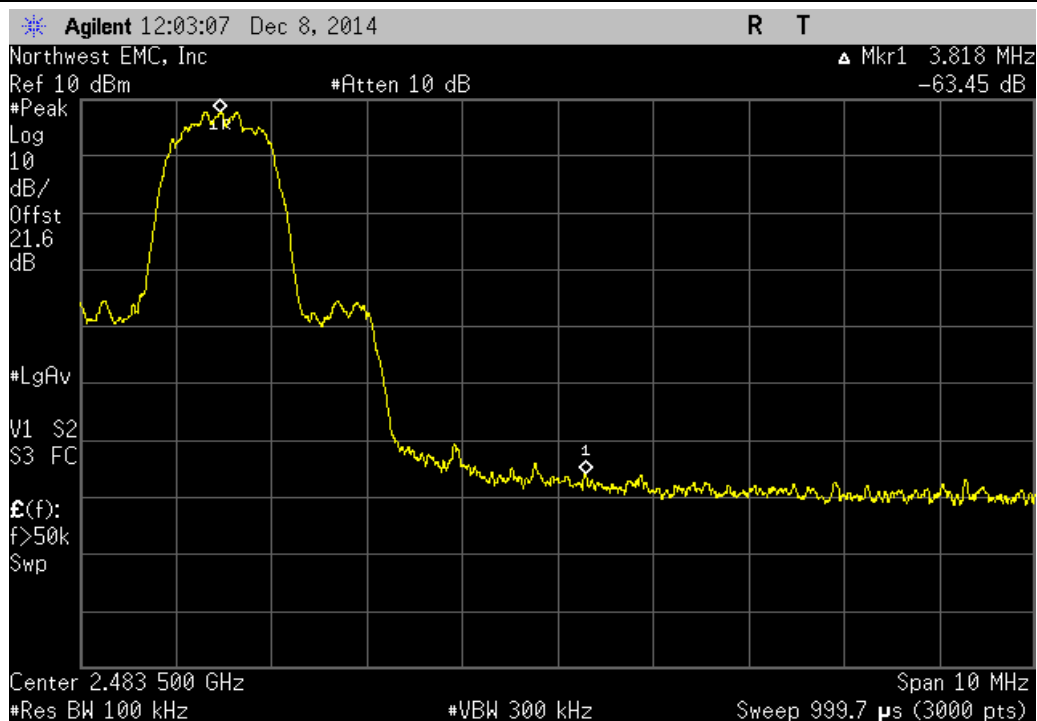
No-Hop Mode, 2DH5, pi/4-DQPSK, High Channel, 2480 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-63.32	-20	Pass



No-Hop Mode, 3DH5, 8-DPSK, Low Channel, 2402 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-56.89	-20	Pass



No-Hop Mode, 3DH5, 8-DPSK, High Channel, 2480 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-63.45	-20	Pass



BAND EDGE COMPLIANCE - HOPPING MODE

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.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval (mos)
MN08 Direct Connect Cable	ESM Cable Corp.	TTBJ141 KMKM-72	MNU	10/2/2014	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/3/2014	12
40 GHz DC Block	Fairview Microwave	SD3379	AMI	10/2/2014	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	8/12/2014	36
Spectrum Analyzer	Agilent	E4440A	AAX	4/28/2014	12

TEST DESCRIPTION

The spurious RF conducted emissions at the edges of the authorized band were measured with the EUT set to its normal pseudo-random hopping sequence. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.

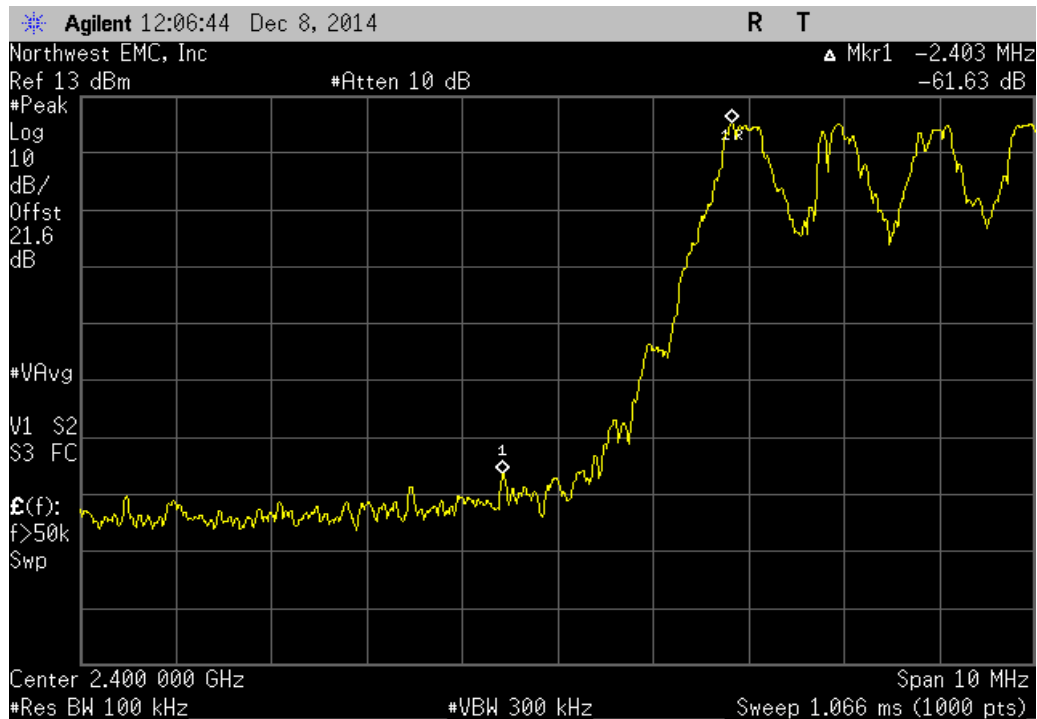


BAND EDGE COMPLIANCE - HOPPING MODE

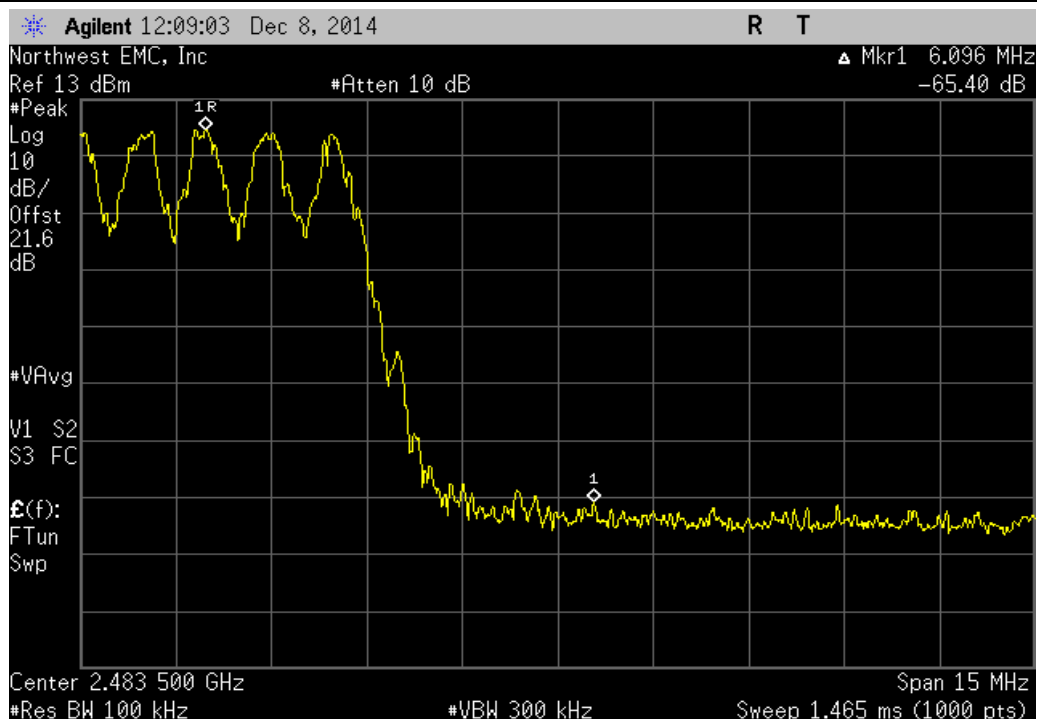
XMIT 2014.02.07
NweTx 2014.11.06

EUT: ConnectCore i.MX6 WiFi/Bluetooth		Work Order: ETHE0018	
Serial Number: 00409D 7C03D2		Date: 12/08/14	
Customer: Etherios Design Solutions		Temperature: 22°C	
Attendees: None		Humidity: 22%	
Project: None		Barometric Pres.: 1019.6	
Tested by: Trevor Buls		Power: 5VDC	
		Job Site: MN08	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2015		ANSI C63.10:2009	
COMMENTS			
None			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature <i>Trevor Buls</i>	
		Value (dBc)	Limit ≤ (dBc)
			Result
Hopping Mode			
DH5, GFSK			
Low Channel, 2402 MHz		-61.63	-20
High Channel, 2480 MHz		-65.4	-20
2DH5, pi/4-DQPSK			
Low Channel, 2402 MHz		-60.45	-20
High Channel, 2480 MHz		-65.16	-20
3DH5, 8-DPSK			
Low Channel, 2402 MHz		-56.8	-20
High Channel, 2480 MHz		-66.44	-20

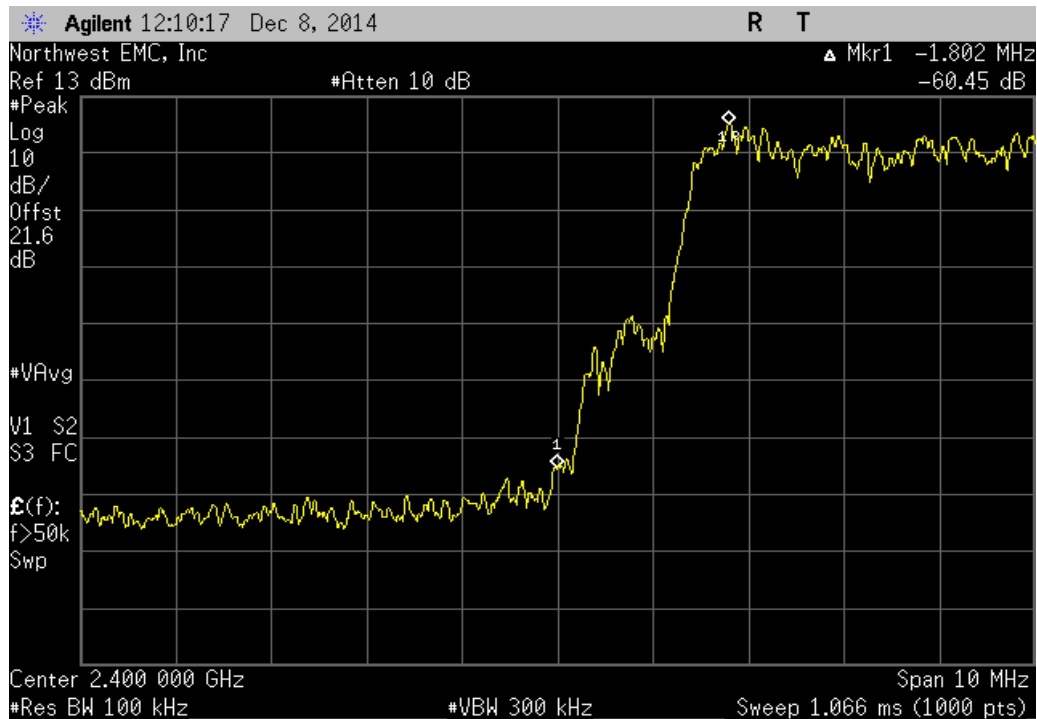
Hopping Mode, DH5, GFSK, Low Channel, 2402 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-61.63	-20	Pass



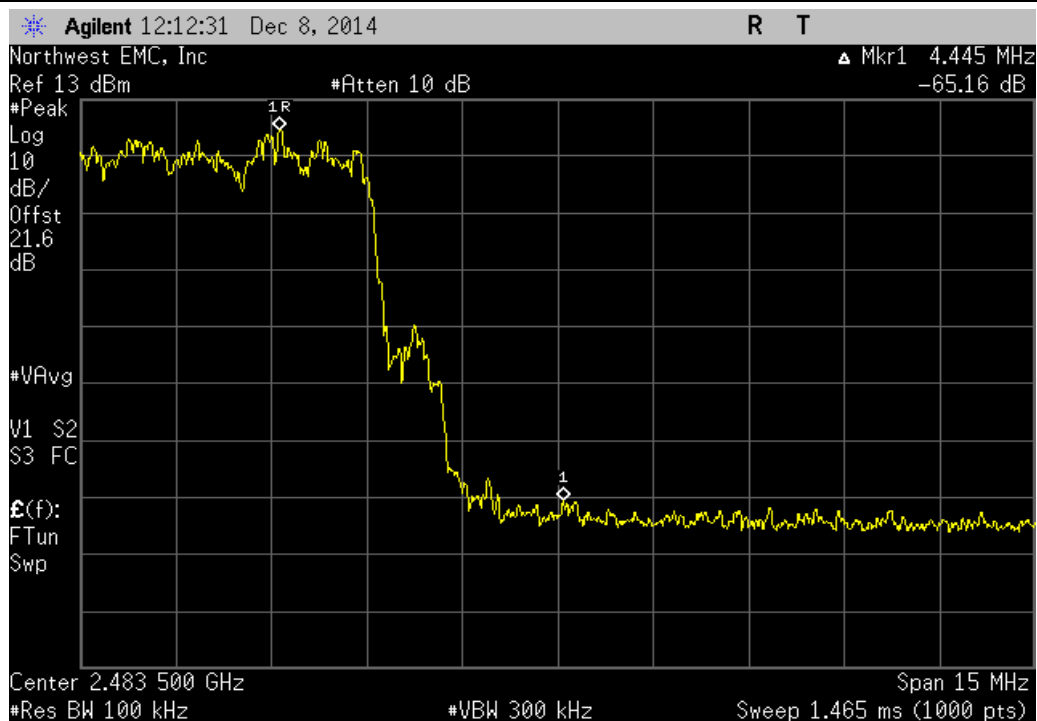
Hopping Mode, DH5, GFSK, High Channel, 2480 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-65.4	-20	Pass



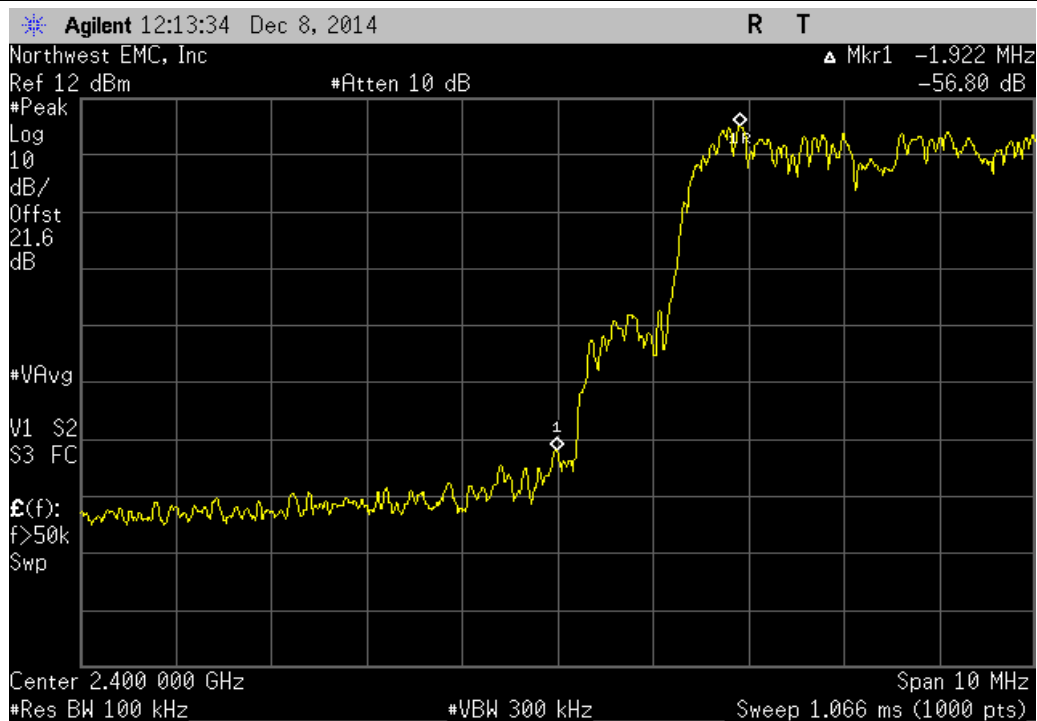
Hopping Mode, 2DH5, pi/4-DQPSK, Low Channel, 2402 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-60.45	-20	Pass



Hopping Mode, 2DH5, pi/4-DQPSK, High Channel, 2480 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-65.16	-20	Pass



Hopping Mode, 3DH5, 8-DPSK, Low Channel, 2402 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-56.8	-20	Pass



Hopping Mode, 3DH5, 8-DPSK, High Channel, 2480 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-66.44	-20	Pass

