



Garmin International

F4ARND00

FCC 15.249:2013

RSS-210:2010

Report #: GARI0006



Report Prepared By Northwest EMC Inc.

NORTHWEST EMC – (888) 364-2378 – www.nwemc.com

California – Minnesota – Oregon – New York – Washington

Last Date of Test: December 16, 2013
Garmin International
Model: F4ARND00

Emissions

Test Description	Specification	Test Method	Pass/Fail
Field Strength of Fundamental	FCC 15.249:2013	ANSI C63.10:2009	Pass
Field Strength of Fundamental	RSS-210:2010	RSS-Gen:2010	Pass
Field Strength of Harmonics and Spurious Radiated Emissions	FCC 15.249:2013	ANSI C63.10:2009	Pass
Field Strength of Harmonics and Spurious Radiated Emissions	RSS-210:2010	RSS-Gen:2010	Pass
99% Emission Bandwidth	RSS-210:2010	RSS-Gen:2010	Pass

Deviations From Test Standards

None

Approved By:



Tim O'Shea, Operations Manager



NVLAP Lab Code: 200630-0

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.

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

REVISION HISTORY

Revision Number	Description	Date	Page Number
00	None		

Barometric Pressure

The recorded barometric pressure has been normalized to sea level.

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

KCC / 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.

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.

Russia

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

SCOPE

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

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

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.

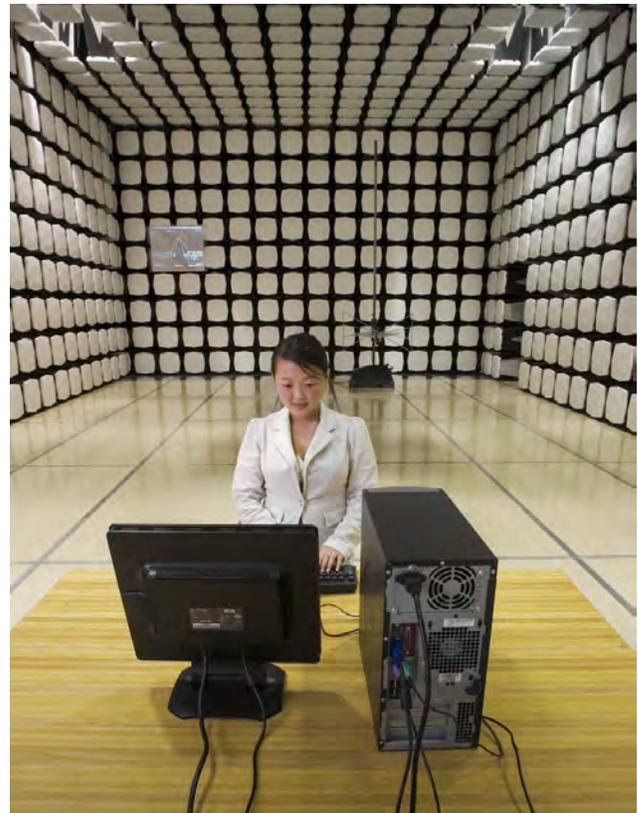
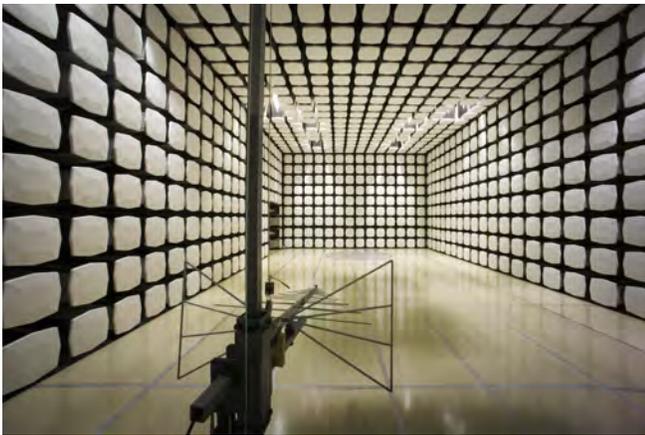
A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) for each test is on each data sheet. Our measurement 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 16-4-1 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)	0.12	-0.01
Amplitude Accuracy (dB)	0.49	-0.49
Conducted Power (dB)	0.41	-0.41
Radiated Power via Substitution (dB)	0.69	-0.68
Temperature (degrees C)	0.81	-0.81
Humidity (% RH)	2.89	-2.89
Field Strength (dB)	4.00	-4.00
AC Powerline Conducted Emissions (dB)	2.70	-2.70



Oregon Labs EV01-12 22975 NW Evergreen Pkwy Hillsboro, OR 97124 (503) 844-4066	California Labs OC01-13 41 Tesla Irvine, CA 92618 (949) 861-8918	New York Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 685-0796	Minnesota Labs MN01-08 9349 W Broadway Ave. Brooklyn Park, MN 55445 (763) 425-2281	Washington Labs NC01-05, SU02, SU07 19201 120 th Ave. NE Bothell, WA 98011 (425) 984-6600
VCCI				
A-0108	A-0029		A-0109	A-0110
Industry Canada				
2834D-1, 2834D-2	2834B-1, 2834B-2, 2834B-3		2834E-1	2834C-1
NVLAP				
NVLAP Lab Code: 200630-0	NVLAP Lab Code: 200676-0	NVLAP Lab Code: 200761-0	NVLAP Lab Code: 200881-0	NVLAP Lab Code: 200629-0





WTD 12.5.23

PRODUCT DESCRIPTION

Client and Equipment Under Test (EUT) Information

Company Name:	Garmin International
Address:	1200 E 151st Street
City, State, Zip:	Olathe, KS 66062
Test Requested By:	David Utt
Model:	F4ARND00
First Date of Test:	December 5, 2013
Last Date of Test:	December 16, 2013
Receipt Date of Samples:	December 5, 2013
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):

The F4ARND00 is a watch with a transceiver that operates between 2400-2483.5 MHz. The radio uses GFSK modulation with three different communication protocols that have the exact same RF characteristics. These modes are listed in the test report as Mode 1, Mode 2, and Mode 3.

Testing Objective:

Seeking to demonstrate compliance under FCC 15.249 and RSS-2010 for operation in the 2400 – 2483.5 MHz band.

Configuration GARI0006- 2

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Watch	Garmin International	F4ARND00	3F700050

Configuration GARI0006- 3

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Watch	Garmin International	F4ARND00	3F700041

Configuration GARI0006- 4

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Watch	Garmin International	F4ARND00	3F700041
Watch	Garmin International	F4ARND00	3F700045

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	12/5/2013	99% 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.
2	12/6/2013	Field Strength of Harmonics and 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.
3	12/16/2013	Field Strength of Fundamental	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

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

Tx, Mode 1, Low Ch. 2402 MHz
Tx, Mode 1, Mid Ch. 2426 MHz
Tx, Mode 1, High Ch. 2480 MHz
Tx, Mode 2, Low Ch. 2404 MHz
Tx, Mode 2, Mid Ch. 2442 MHz
Tx, Mode 2, High Ch. 2478 MHz
Tx, Mode 3 1Mbps, Low Ch. 2402 MHz
Tx, Mode 3 1Mbps, Mid Ch. 2442 MHz
Tx, Mode 3 1Mbps, High Ch. 2480 MHz

CONFIGURATIONS INVESTIGATED

GARI0006 - 3

FREQUENCY RANGE INVESTIGATED

Start Frequency	1000 MHz	Stop Frequency	3000 MHz
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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
EV01 Cables	N/A	Double Ridge Horn Cables	EVB	9/2/2013	12 mo
Antenna, Horn	ETS	3115	AIZ	1/24/2011	36 mo
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	24 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 antennas to be used with the EUT were tested. The EUT was transmitting and while set at the lowest channel, a middle channel, and the highest channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT and EUT antenna in 3 orthogonal planes (per ANSI C63.10:2009).



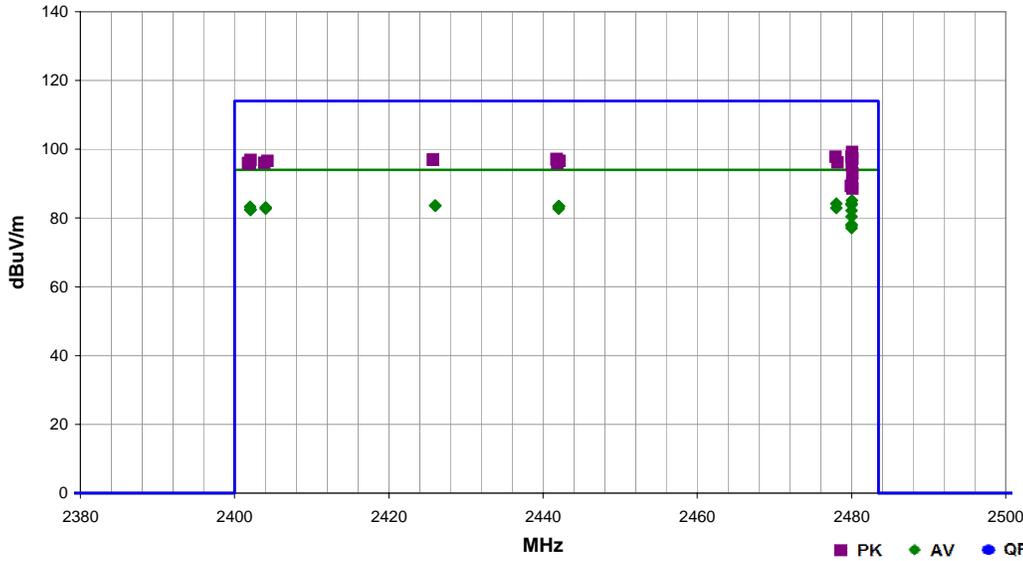
FIELD OF STRENGTH FUNDAMENTAL

PSA-ESCI 2012.12.14
EmiR5 2013.08.26

Work Order:	GARI0006	Date:	12/16/13	
Project:	None	Temperature:	22.8 °C	
Job Site:	EV01	Humidity:	21.6% RH	
Serial Number:	3F700041	Barometric Pres.:	1033 mbar	
EUT:	F4ARND00			
Configuration:	3			
Customer:	Garmin International			
Attendees:	None			
EUT Power:	Battery			
Operating Mode:	Tx			
Deviations:	None			
Comments:	Please reference the data comments for EUT orientation, data type and frequency.			

Test Specifications	Test Method
FCC 15.249:2013 RSS-210:2010	ANSI C63.10:2009 RSS-Gen:2010

Run #	52	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
2480.045	50.4	34.7	1.0	186.0	3.0	0.0	Horz	AV	0.0	85.1	94.0	-8.9	Mode 3 High Ch. 2480 MHz, EUT Horz (10 Hz)
2480.000	49.5	34.7	1.0	86.0	3.0	0.0	Horz	AV	0.0	84.2	94.0	-9.8	Mode 1 High Ch. 2480 MHz, EUT Horz (10Hz)
2478.015	49.5	34.7	1.0	87.0	3.0	0.0	Horz	AV	0.0	84.2	94.0	-9.8	Mode 2 High Ch. 2478 MHz, EUT Horz (10Hz)
2480.008	49.1	34.7	1.0	157.0	3.0	0.0	Vert	AV	0.0	83.8	94.0	-10.2	Mode 1 High Ch. 2480 MHz, EUT Vert (10Hz)
2426.017	49.2	34.4	1.0	100.0	3.0	0.0	Horz	AV	0.0	83.6	94.0	-10.4	Mode 1 Mid Ch. 2426 MHz, EUT Horz (10Hz)
2426.042	49.1	34.4	1.0	131.0	3.0	0.0	Vert	AV	0.0	83.5	94.0	-10.5	Mode 1 Mid Ch. 2426 MHz, EUT Vert (10Hz)
2442.045	49.0	34.5	1.0	103.0	3.0	0.0	Horz	AV	0.0	83.5	94.0	-10.5	Mode 2 Mid Ch. 2442 MHz, EUT Horz (10Hz)
2442.030	49.0	34.5	1.0	131.0	3.0	0.0	Vert	AV	0.0	83.5	94.0	-10.5	Mode 3 Mid Ch. 2442 MHz, EUT Vert (10 Hz)
2402.020	49.0	34.3	1.0	128.0	3.0	0.0	Vert	AV	0.0	83.3	94.0	-10.7	Mode 1 Low Ch. 2402 MHz, EUT Vert (10Hz)
2442.020	48.7	34.5	1.0	159.0	3.0	0.0	Vert	AV	0.0	83.2	94.0	-10.8	Mode 2 Mid Ch. 2442 MHz, EUT Vert (10Hz)
2404.030	48.8	34.3	1.0	131.0	3.0	0.0	Vert	AV	0.0	83.1	94.0	-10.9	Mode 2 Low Ch. 2404 MHz, EUT Vert (10Hz)
2478.025	48.2	34.7	1.0	105.0	3.0	0.0	Vert	AV	0.0	82.9	94.0	-11.1	Mode 2 High Ch. 2478 MHz, EUT Vert (10Hz)
2442.005	48.2	34.5	1.0	92.0	3.0	0.0	Horz	AV	0.0	82.7	94.0	-11.3	Mode 3 Mid Ch. 2442 MHz, EUT Horz (10 Hz)
2404.035	48.4	34.3	1.0	100.0	3.0	0.0	Horz	AV	0.0	82.7	94.0	-11.3	Mode 2 Low Ch. 2404 MHz, EUT Horz (10Hz)
2402.040	48.2	34.3	1.0	49.0	3.0	0.0	Vert	AV	0.0	82.5	94.0	-11.5	Mode 3 Low Ch. 2402 MHz, EUT Vert (10 Hz)
2402.040	48.2	34.3	1.0	101.0	3.0	0.0	Horz	AV	0.0	82.5	94.0	-11.5	Mode 1 Low Ch. 2402 MHz, EUT Horz (10Hz)
2402.040	48.1	34.3	1.0	100.0	3.0	0.0	Horz	AV	0.0	82.4	94.0	-11.6	Mode 3 Low Ch. 2402 MHz, EUT Horz (10 Hz)
2480.020	47.5	34.7	1.4	154.0	3.0	0.0	Vert	AV	0.0	82.2	94.0	-11.8	Mode 3 High Ch. 2480 MHz, EUT Vert (10 Hz)
2480.030	45.7	34.7	1.0	158.0	3.0	0.0	Horz	AV	0.0	80.4	94.0	-13.6	Mode 2 High Ch. 2480 MHz, EUT On Side (10 Hz)
2480.095	64.5	34.7	1.0	186.0	3.0	0.0	Horz	PK	0.0	99.2	114.0	-14.8	Mode 3 High Ch. 2480 MHz, EUT Horz
2480.000	43.4	34.7	1.2	23.0	3.0	0.0	Horz	AV	0.0	78.1	94.0	-15.9	Mode 3 High Ch. 2480 MHz, EUT Vert (10 Hz)
2480.017	63.1	34.7	1.0	86.0	3.0	0.0	Horz	PK	0.0	97.8	114.0	-16.2	Mode 1 High Ch. 2480 MHz, EUT Horz
2477.960	63.1	34.7	1.0	87.0	3.0	0.0	Horz	PK	0.0	97.8	114.0	-16.2	Mode 1 Mid Ch. 2478 MHz, EUT Horz
2480.015	43.0	34.7	1.7	348.0	3.0	0.0	Vert	AV	0.0	77.7	94.0	-16.3	Mode 3 High Ch. 2480 MHz, EUT On Side (10 Hz)
2480.142	62.5	34.7	1.0	157.0	3.0	0.0	Vert	PK	0.0	97.2	114.0	-16.8	Mode 1 High Ch. 2480 MHz, EUT Vert
2441.775	62.7	34.5	1.0	131.0	3.0	0.0	Vert	PK	0.0	97.2	114.0	-16.8	Mode 3 Mid Ch. 2442 MHz, EUT Vert
2480.015	42.4	34.7	1.9	225.0	3.0	0.0	Vert	AV	0.0	77.1	94.0	-16.9	Mode 3 High Ch. 2480 MHz, EUT Horz (10 Hz)
2425.758	62.6	34.4	1.0	100.0	3.0	0.0	Horz	PK	0.0	97.0	114.0	-17.0	Mode 1 Mid Ch. 2426 MHz, EUT Horz
2441.780	62.5	34.5	1.9	103.0	3.0	0.0	Horz	PK	0.0	97.0	114.0	-17.0	Mode 2 Mid Ch. 2442 MHz, EUT Horz
2425.742	62.5	34.4	1.0	131.0	3.0	0.0	Vert	PK	0.0	96.9	114.0	-17.1	Mode 1 Mid Ch. 2426 MHz, EUT Vert
2402.095	62.6	34.3	1.0	128.0	3.0	0.0	Vert	PK	0.0	96.9	114.0	-17.1	Mode 1 Low Ch. 2402 MHz, EUT Vert
2442.145	62.1	34.5	1.0	159.0	3.0	0.0	Vert	PK	0.0	96.6	114.0	-17.4	Mode 2 Mid Ch. 2442 MHz, EUT Vert
2404.290	62.3	34.3	1.0	131.0	3.0	0.0	Vert	PK	0.0	96.6	114.0	-17.4	Mode 2 Low Ch. 2404 MHz, EUT Vert
2478.190	61.4	34.7	1.0	105.0	3.0	0.0	Vert	PK	0.0	96.1	114.0	-17.9	Mode 2 High Ch. 2478 MHz, EUT Vert

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
2403.870	61.8	34.3	1.0	100.0	3.0	0.0	Horz	PK	0.0	96.1	114.0	-17.9	Mode 2 Low Ch. 2404 MHz, EUT Horz
2441.875	61.5	34.5	1.0	92.0	3.0	0.0	Horz	PK	0.0	96.0	114.0	-18.0	Mode 3 Mid Ch. 2442 MHz, EUT Horz
2401.915	61.7	34.3	1.0	49.0	3.0	0.0	Vert	PK	0.0	96.0	114.0	-18.0	Mode 3 Low Ch. 2402 MHz, EUT Vert
2401.765	61.7	34.3	1.0	101.0	3.0	0.0	Horz	PK	0.0	96.0	114.0	-18.0	Mode 1 Low Ch. 2402 MHz, EUT Horz
2402.020	61.6	34.3	1.0	100.0	3.0	0.0	Horz	PK	0.0	95.9	114.0	-18.1	Mode 3 Low Ch. 2402 MHz, EUT Horz
2480.040	60.6	34.7	1.4	154.0	3.0	0.0	Vert	PK	0.0	95.3	114.0	-18.7	Mode 3 High Ch. 2480 MHz, EUT Vert
2480.135	58.3	34.7	1.0	158.0	3.0	0.0	Horz	PK	0.0	93.0	114.0	-21.0	Mode 3 High Ch. 2480 MHz, EUT On Side
2480.105	55.2	34.7	1.2	23.0	3.0	0.0	Horz	PK	0.0	89.9	114.0	-24.1	Mode 3 High Ch. 2480 MHz, EUT Vert
2479.935	54.6	34.7	1.7	348.0	3.0	0.0	Vert	PK	0.0	89.3	114.0	-24.7	Mode 3 High Ch. 2480 MHz, EUT On Side
2480.140	53.8	34.7	1.9	225.0	3.0	0.0	Vert	PK	0.0	88.5	114.0	-25.5	Mode 3 High Ch. 2480 MHz, EUT Horz

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

Tx, Mode 2, Low Ch. 2404 MHz
Tx, Mode 2, Mid Ch. 2442 MHz
Tx, Mode 2, High Ch. 2478 MHz
Tx, Mode 1, Low Ch. 2402 MHz
Tx, Mode 1, Mid Ch. 2426 MHz
Tx, Mode 1, High Ch. 2480 MHz
Tx, Mode 3 1Mbps, Low Ch. 2402 MHz
Tx, Mode 3 1Mbps, Mid Ch. 2442 MHz
Tx, Mode 3 1Mbps, High Ch. 2480 MHz

POWER SETTINGS INVESTIGATED

Battery

CONFIGURATIONS INVESTIGATED

GARI0006 - 4

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	26.5 GHz
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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
HP Filter	Micro-Tronics	HPM50111	HFO	7/6/2013	24 mo
LP Filter	Micro-Tronics	LPM50004	LFD	7/6/2012	24 mo
Attenuator - 20dB, HF (1000MHz - 18000MHz)	Coaxicom	3910-20	AXZ	6/20/2013	12 mo
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	24 mo
Cable	ESM Cable Corp.	KMKM-72	EVY	9/10/2013	12 mo
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AVU	9/10/2013	12 mo
Antenna, Horn	ETS Lindgren	3160-09	AIV	NCR	0 mo
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVD	10/21/2013	12 mo
Antenna, Horn	ETS	3160-08	AHV	NCR	0 mo
EV01 Cables	N/A	Standard Gain Horns Cables	EVF	10/21/2013	12 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	10/21/2013	12 mo
Antenna, Horn	ETS	3160-07	AHU	NCR	0 mo
EV01 Cables	N/A	Double Ridge Horn Cables	EVB	9/2/2013	12 mo
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	6/20/2013	12 mo
Antenna, Horn	ETS	3115	AIZ	1/24/2011	36 mo
EV01 Cables	N/A	Bilog Cables	EVA	6/20/2013	12 mo
Pre-Amplifier	Miteq	AM-1616-1000	AOL	6/20/2013	12 mo
Antenna, Biconilog	EMCO	3141	AXG	4/10/2012	36 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 antennas to be used with the EUT were tested. The EUT was transmitting and receiving while set at the lowest channel, a middle channel, and the highest channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.10:2009). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.



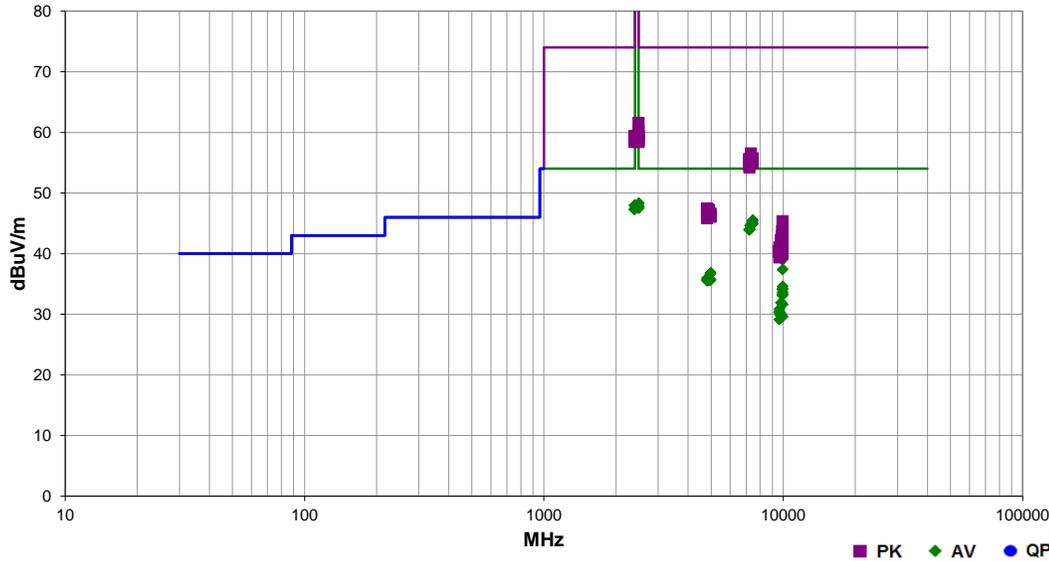
FIELD STRENGTH OF HARMONICS AND SPURIOUS RADIATED EMISSIONS

PSA-ESCI 2012.12.14
EmiR5 2013.08.26

Work Order:	GARI0006	Date:	12/06/13	
Project:	None	Temperature:	19.6 °C	
Job Site:	EV01	Humidity:	21.4% RH	
Serial Number:	3F700041; 3F700045	Barometric Pres.:	1019.3 mbar	
EUT:	F4ARND00			
Configuration:	4			
Customer:	Garmin International			
Attendees:	None			
EUT Power:	Battery			
Operating Mode:	Tx			
Deviations:	None			
Comments:	Please reference data comment for EUT mode, frequency and orientation.			

Test Specifications	Test Method
FCC 15.249:2013 RSS-210:2010	ANSI C63.10:2009 RSS-Gen:2010

Run #	27	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
2484.490	26.5	1.9	1.0	234.0	3.0	20.0	Vert	AV	0.0	48.4	54.0	-5.6	Mode 3 1Mbps, High Ch 2480 MHz, EUT Facing Up
2484.853	26.4	1.9	1.0	136.0	3.0	20.0	Horz	AV	0.0	48.3	54.0	-5.7	Mode 3 1Mbps, High Ch 2480 MHz, EUT Facing Up
2388.993	26.5	1.5	3.8	242.0	3.0	20.0	Horz	AV	0.0	48.0	54.0	-6.0	Mode 3 1Mbps, Low Ch 2402 MHz, EUT Facing Up
2389.300	26.5	1.5	1.0	72.0	3.0	20.0	Vert	AV	0.0	48.0	54.0	-6.0	Mode 3 1Mbps, Low Ch 2402 MHz, EUT Facing Up
2484.190	25.9	1.8	1.0	19.0	3.0	20.0	Horz	AV	0.0	47.7	54.0	-6.3	Mode 1, High Ch 2480 MHz, EUT Facing Up
2483.650	25.9	1.8	1.0	166.0	3.0	20.0	Horz	AV	0.0	47.7	54.0	-6.3	Mode 1, High Ch 2480 MHz, EUT Horz
2483.543	25.9	1.8	1.0	11.0	3.0	20.0	Vert	AV	0.0	47.7	54.0	-6.3	Mode 1, High Ch 2480 MHz, EUT Vert
2484.673	25.8	1.9	1.0	313.0	3.0	20.0	Vert	AV	0.0	47.7	54.0	-6.3	Mode 1, High Ch 2480 MHz, EUT Facing Up
2484.610	25.7	1.9	1.0	340.0	3.0	20.0	Horz	AV	0.0	47.6	54.0	-6.4	Mode 1, High Ch 2480 MHz, EUT Vert
2484.533	25.7	1.9	2.9	65.0	3.0	20.0	Vert	AV	0.0	47.6	54.0	-6.4	Mode 1, High Ch 2480 MHz, EUT Horz
2389.180	25.9	1.5	1.0	298.0	3.0	20.0	Vert	AV	0.0	47.4	54.0	-6.6	Mode 1, Low Ch 2402 MHz, EUT Facing Up
2388.770	25.8	1.5	1.0	307.0	3.0	20.0	Horz	AV	0.0	47.3	54.0	-6.7	Mode 1, Low Ch 2402 MHz, EUT Facing Up
7433.675	26.4	19.2	1.1	338.0	3.0	0.0	Horz	AV	0.0	45.6	54.0	-8.4	Mode 2, High Ch 2478 MHz, EUT Facing Up
7439.917	26.2	19.2	1.0	337.0	3.0	0.0	Horz	AV	0.0	45.4	54.0	-8.6	Mode 1, High Ch 2480 MHz, EUT Facing Up
7440.167	25.8	19.2	2.2	202.0	3.0	0.0	Vert	AV	0.0	45.0	54.0	-9.0	Mode 1, High Ch 2480 MHz, EUT Facing Up
7433.350	25.7	19.2	2.1	346.0	3.0	0.0	Vert	AV	0.0	44.9	54.0	-9.1	Mode 2, High Ch 2478 MHz, EUT Facing Up
7327.558	25.9	19.0	1.0	313.0	3.0	0.0	Horz	AV	0.0	44.9	54.0	-9.1	Mode 2, Mid Ch 2442 MHz, EUT Facing Up
7326.175	25.9	19.0	1.0	122.0	3.0	0.0	Vert	AV	0.0	44.9	54.0	-9.1	Mode 2, Mid Ch 2442 MHz, EUT Facing Up
7278.750	26.0	18.7	1.0	180.0	3.0	0.0	Horz	AV	0.0	44.7	54.0	-9.3	Mode 1, Mid Ch 2426 MHz, EUT Facing Up
7278.108	25.9	18.7	1.0	232.0	3.0	0.0	Vert	AV	0.0	44.6	54.0	-9.4	Mode 1, Mid Ch 2426 MHz, EUT Facing Up
7210.275	25.7	18.3	1.0	45.0	3.0	0.0	Horz	AV	0.0	44.0	54.0	-10.0	Mode 2, Low Ch 2404 MHz, EUT Facing Up
7208.092	25.7	18.3	1.0	237.0	3.0	0.0	Vert	AV	0.0	44.0	54.0	-10.0	Mode 1, Low Ch 2402 MHz, EUT Facing Up
7207.783	25.7	18.3	1.0	238.0	3.0	0.0	Horz	AV	0.0	44.0	54.0	-10.0	Mode 1, Low Ch 2402 MHz, EUT Facing Up
7211.283	25.6	18.3	1.0	259.0	3.0	0.0	Vert	AV	0.0	43.9	54.0	-10.1	Mode 2, Low Ch 2404 MHz, EUT Facing Up
2483.687	39.7	1.8	1.0	166.0	3.0	20.0	Horz	PK	0.0	61.5	74.0	-12.5	Mode 1, High Ch 2480 MHz, EUT Horz
2483.657	38.3	1.8	1.0	136.0	3.0	20.0	Horz	PK	0.0	60.1	74.0	-13.9	Mode 3 1Mbps, High Ch 2480 MHz, EUT Facing Up
2485.047	37.7	1.9	1.0	234.0	3.0	20.0	Vert	PK	0.0	59.6	74.0	-14.4	Mode 3 1Mbps, High Ch 2480 MHz, EUT Facing Up
2483.697	37.7	1.8	1.0	11.0	3.0	20.0	Vert	PK	0.0	59.5	74.0	-14.5	Mode 1, High Ch 2480 MHz, EUT Vert
2388.613	37.9	1.5	1.0	307.0	3.0	20.0	Horz	PK	0.0	59.4	74.0	-14.6	Mode 1, Low Ch 2402 MHz, EUT Facing Up
2389.327	37.6	1.5	1.0	72.0	3.0	20.0	Vert	PK	0.0	59.1	74.0	-14.9	Mode 3 1Mbps, Low Ch 2402 MHz, EUT Facing Up
2483.943	37.2	1.8	1.0	313.0	3.0	20.0	Vert	PK	0.0	59.0	74.0	-15.0	Mode 1, High Ch 2480 MHz, EUT Facing Up
9920.017	51.2	-12.2	1.5	92.0	3.0	0.0	Vert	AV	0.0	39.0	54.0	-15.0	Mode 3 1Mbps, High Ch 2480 MHz, EUT Facing Up
2388.117	37.3	1.5	1.0	298.0	3.0	20.0	Vert	PK	0.0	58.8	74.0	-15.2	Mode 1, Low Ch 2402 MHz, EUT Facing Up
2484.640	36.9	1.9	1.0	19.0	3.0	20.0	Horz	PK	0.0	58.8	74.0	-15.2	Mode 1, High Ch 2480 MHz, EUT Facing Up

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
2483.857	36.8	1.8	2.9	65.0	3.0	20.0	Vert	PK	0.0	58.6	74.0	-15.4	Mode 1, High Ch 2480 MHz, EUT Horz
2484.623	36.6	1.9	1.0	340.0	3.0	20.0	Horz	PK	0.0	58.5	74.0	-15.5	Mode 1, High Ch 2480 MHz, EUT Vert
2388.827	36.9	1.5	3.8	242.0	3.0	20.0	Horz	PK	0.0	58.4	74.0	-15.6	Mode 3 1Mbps, Low Ch 2402 MHz, EUT Facing Up
9919.933	49.6	-12.2	1.0	79.0	3.0	0.0	Horz	AV	0.0	37.4	54.0	-16.6	Mode 3 1Mbps, High Ch 2480 MHz, EUT Facing Up
4960.008	26.0	10.9	1.0	92.0	3.0	0.0	Horz	AV	0.0	36.9	54.0	-17.1	Mode 1, High Ch 2480 MHz, EUT Facing Up
4956.108	25.8	10.9	1.0	94.0	3.0	0.0	Horz	AV	0.0	36.7	54.0	-17.3	Mode 2, High Ch 2478 MHz, EUT Facing Up
7325.567	37.6	18.9	1.0	313.0	3.0	0.0	Horz	PK	0.0	56.5	74.0	-17.5	Mode 2, Mid Ch 2442 MHz, EUT Facing Up
4803.892	25.6	10.4	1.6	69.0	3.0	0.0	Horz	AV	0.0	36.0	54.0	-18.0	Mode 1, Low Ch 2402 MHz, EUT Facing Up
4851.850	25.4	10.6	1.0	182.0	3.0	0.0	Vert	AV	0.0	36.0	54.0	-18.0	Mode 1, Mid Ch 2426 MHz, EUT Facing Up
4851.708	25.4	10.6	1.0	38.0	3.0	0.0	Horz	AV	0.0	36.0	54.0	-18.0	Mode 1, Mid Ch 2426 MHz, EUT Facing Up
4883.908	25.2	10.7	1.0	37.0	3.0	0.0	Horz	AV	0.0	35.9	54.0	-18.1	Mode 2, Mid Ch 2442 MHz, EUT Facing Up
4803.908	25.4	10.4	1.6	182.0	3.0	0.0	Vert	AV	0.0	35.8	54.0	-18.2	Mode 1, Low Ch 2402 MHz, EUT Facing Up
4962.392	24.8	10.9	1.0	92.0	3.0	0.0	Vert	AV	0.0	35.7	54.0	-18.3	Mode 1, High Ch 2480 MHz, EUT Facing Up
4955.983	24.8	10.9	1.0	210.0	3.0	0.0	Vert	AV	0.0	35.7	54.0	-18.3	Mode 2, High Ch 2478 MHz, EUT Facing Up
7437.558	36.5	19.2	2.2	202.0	3.0	0.0	Vert	PK	0.0	55.7	74.0	-18.3	Mode 1, High Ch 2480 MHz, EUT Facing Up
7433.717	36.5	19.2	1.1	338.0	3.0	0.0	Horz	PK	0.0	55.7	74.0	-18.3	Mode 2, High Ch 2478 MHz, EUT Facing Up
7213.450	37.3	18.4	1.0	45.0	3.0	0.0	Horz	PK	0.0	55.7	74.0	-18.3	Mode 2, Low Ch 2404 MHz, EUT Facing Up
4808.033	25.2	10.5	1.0	24.0	3.0	0.0	Horz	AV	0.0	35.7	54.0	-18.3	Mode 2, Low Ch 2404 MHz, EUT Facing Up
4882.583	25.0	10.7	1.0	33.0	3.0	0.0	Vert	AV	0.0	35.7	54.0	-18.3	Mode 2, Mid Ch 2442 MHz, EUT Facing Up
7324.375	36.7	18.9	1.0	122.0	3.0	0.0	Vert	PK	0.0	55.6	74.0	-18.4	Mode 2, Mid Ch 2442 MHz, EUT Facing Up
7438.342	36.4	19.2	1.0	337.0	3.0	0.0	Horz	PK	0.0	55.6	74.0	-18.4	Mode 1, High Ch 2480 MHz, EUT Facing Up
4807.892	25.1	10.5	1.0	146.0	3.0	0.0	Vert	AV	0.0	35.6	54.0	-18.4	Mode 2, Low Ch 2404 MHz, EUT Facing Up
7207.683	37.2	18.3	1.0	238.0	3.0	0.0	Vert	PK	0.0	55.5	74.0	-18.5	Mode 1, Low Ch 2402 MHz, EUT Facing Up
7279.100	36.7	18.7	1.0	180.0	3.0	0.0	Horz	PK	0.0	55.4	74.0	-18.6	Mode 1, Mid Ch 2426 MHz, EUT Facing Up
7276.333	36.4	18.7	1.0	232.0	3.0	0.0	Vert	PK	0.0	55.1	74.0	-18.9	Mode 1, Mid Ch 2426 MHz, EUT Facing Up
7434.808	35.9	19.2	2.1	346.0	3.0	0.0	Vert	PK	0.0	55.1	74.0	-18.9	Mode 2, High Ch 2478 MHz, EUT Facing Up
7207.342	36.4	18.3	1.0	237.0	3.0	0.0	Horz	PK	0.0	54.7	74.0	-19.3	Mode 1, Low Ch 2402 MHz, EUT Facing Up
9920.233	46.8	-12.2	1.4	65.0	3.0	0.0	Horz	AV	0.0	34.6	54.0	-19.4	Mode 1, High Ch 2480 MHz, EUT Facing Up
7211.858	35.9	18.4	1.0	259.0	3.0	0.0	Vert	PK	0.0	54.3	74.0	-19.7	Mode 2, Low Ch 2404 MHz, EUT Facing Up
9920.442	46.4	-12.2	1.3	9.0	3.0	0.0	Vert	AV	0.0	34.2	54.0	-19.8	Mode 1, High Ch 2480 MHz, EUT Facing Up
9912.150	46.3	-12.1	1.4	67.0	3.0	0.0	Horz	AV	0.0	34.2	54.0	-19.8	Mode 2, High Ch 2478 MHz, EUT Facing Up
9919.992	45.8	-12.2	1.1	79.0	3.0	0.0	Horz	AV	0.0	33.6	54.0	-20.4	Mode 1, High Ch 2480 MHz, EUT Vert
9919.842	45.5	-12.2	1.0	347.0	3.0	0.0	Vert	AV	0.0	33.3	54.0	-20.7	Mode 1, High Ch 2480 MHz, EUT Vert
9911.692	45.3	-12.1	1.5	7.0	3.0	0.0	Vert	AV	0.0	33.2	54.0	-20.8	Mode 2, High Ch 2478 MHz, EUT Facing Up
9767.833	43.8	-11.8	1.4	5.0	3.0	0.0	Vert	AV	0.0	32.0	54.0	-22.0	Mode 2, Mid Ch 2442 MHz, EUT Facing Up
9919.750	43.8	-12.2	1.7	32.0	3.0	0.0	Vert	AV	0.0	31.6	54.0	-22.4	Mode 1, High Ch 2480 MHz, EUT Horz
9616.500	42.4	-11.5	1.3	101.0	3.0	0.0	Horz	AV	0.0	30.9	54.0	-23.1	Mode 2, Low Ch 2404 MHz, EUT Facing Up
9607.925	41.9	-11.5	1.6	1.0	3.0	0.0	Vert	AV	0.0	30.4	54.0	-23.6	Mode 1, Low Ch 2402 MHz, EUT Facing Up
9608.100	41.9	-11.5	1.0	94.0	3.0	0.0	Horz	AV	0.0	30.4	54.0	-23.6	Mode 1, Low Ch 2402 MHz, EUT Facing Up
9704.125	41.8	-11.7	1.4	96.0	3.0	0.0	Horz	AV	0.0	30.1	54.0	-23.9	Mode 1, Mid Ch 2426 MHz, EUT Facing Up
9767.717	41.9	-11.8	1.0	79.0	3.0	0.0	Horz	AV	0.0	30.1	54.0	-23.9	Mode 2, Mid Ch 2442 MHz, EUT Facing Up
9704.242	41.6	-11.7	1.2	19.0	3.0	0.0	Vert	AV	0.0	29.9	54.0	-24.1	Mode 1, Mid Ch 2426 MHz, EUT Facing Up
9920.167	41.8	-12.2	1.0	229.0	3.0	0.0	Horz	AV	0.0	29.6	54.0	-24.4	Mode 1, High Ch 2480 MHz, EUT Horz
9616.592	40.7	-11.5	1.0	81.0	3.0	0.0	Vert	AV	0.0	29.2	54.0	-24.8	Mode 2, Low Ch 2404 MHz, EUT Facing Up
4803.917	37.0	10.4	1.6	69.0	3.0	0.0	Horz	PK	0.0	47.4	74.0	-26.6	Mode 1, Low Ch 2402 MHz, EUT Facing Up
4851.675	36.7	10.6	1.0	38.0	3.0	0.0	Horz	PK	0.0	47.3	74.0	-26.7	Mode 1, Mid Ch 2426 MHz, EUT Facing Up
4884.267	36.5	10.7	1.0	37.0	3.0	0.0	Horz	PK	0.0	47.2	74.0	-26.8	Mode 2, Mid Ch 2442 MHz, EUT Facing Up
4807.933	36.6	10.5	1.0	24.0	3.0	0.0	Horz	PK	0.0	47.1	74.0	-26.9	Mode 2, Low Ch 2404 MHz, EUT Facing Up
4884.825	36.0	10.7	1.0	33.0	3.0	0.0	Vert	PK	0.0	46.7	74.0	-27.3	Mode 2, Mid Ch 2442 MHz, EUT Facing Up
4957.958	35.7	10.9	1.0	92.0	3.0	0.0	Horz	PK	0.0	46.6	74.0	-27.4	Mode 1, High Ch 2480 MHz, EUT Facing Up
4854.483	36.0	10.6	1.0	182.0	3.0	0.0	Vert	PK	0.0	46.6	74.0	-27.4	Mode 1, Mid Ch 2426 MHz, EUT Facing Up
4955.725	35.4	10.9	1.0	210.0	3.0	0.0	Vert	PK	0.0	46.3	74.0	-27.7	Mode 2, High Ch 2478 MHz, EUT Facing Up
4807.992	35.8	10.5	1.0	146.0	3.0	0.0	Vert	PK	0.0	46.3	74.0	-27.7	Mode 2, Low Ch 2404 MHz, EUT Facing Up
4957.100	35.3	10.9	1.0	94.0	3.0	0.0	Horz	PK	0.0	46.2	74.0	-27.8	Mode 2, High Ch 2478 MHz, EUT Facing Up
4962.392	35.2	10.9	1.0	92.0	3.0	0.0	Vert	PK	0.0	46.1	74.0	-27.9	Mode 1, High Ch 2480 MHz, EUT Facing Up
4805.700	35.4	10.5	1.6	182.0	3.0	0.0	Vert	PK	0.0	45.9	74.0	-28.1	Mode 1, Low Ch 2402 MHz, EUT Facing Up
9919.467	57.5	-12.2	1.5	92.0	3.0	0.0	Vert	PK	0.0	45.3	74.0	-28.7	Mode 3 1Mbps, High Ch 2480 MHz, EUT Facing Up
9920.400	56.1	-12.2	1.0	79.0	3.0	0.0	Horz	PK	0.0	43.9	74.0	-30.1	Mode 3 1Mbps, High Ch 2480 MHz, EUT Facing Up
9911.192	55.8	-12.1	1.4	67.0	3.0	0.0	Horz	PK	0.0	43.7	74.0	-30.3	Mode 2, High Ch 2478 MHz, EUT Facing Up
9919.392	55.1	-12.2	1.4	65.0	3.0	0.0	Horz	PK	0.0	42.9	74.0	-31.1	Mode 1, High Ch 2480 MHz, EUT Facing Up
9919.517	55.1	-12.2	1.3	9.0	3.0	0.0	Vert	PK	0.0	42.9	74.0	-31.1	Mode 1, High Ch 2480 MHz, EUT Facing Up
9920.158	55.1	-12.2	1.1	79.0	3.0	0.0	Horz	PK	0.0	42.9	74.0	-31.1	Mode 1, High Ch 2480 MHz, EUT Vert
9920.742	55.0	-12.2	1.0	347.0	3.0	0.0	Vert	PK	0.0	42.8	74.0	-31.2	Mode 1, High Ch 2480 MHz, EUT Vert
9911.750	54.8	-12.1	1.5	7.0	3.0	0.0	Vert	PK	0.0	42.7	74.0	-31.3	Mode 2, High Ch 2478 MHz, EUT Facing Up
9768.492	54.1	-11.8	1.4	5.0	3.0	0.0	Vert	PK	0.0	42.3	74.0	-31.7	Mode 2, Mid Ch 2442 MHz, EUT Facing Up
9920.250	54.0	-12.2	1.7	32.0	3.0	0.0	Vert	PK	0.0	41.8	74.0	-32.2	Mode 1, High Ch 2480 MHz, EUT Horz
9615.425	52.5	-11.5	1.3	101.0	3.0	0.0	Horz	PK	0.0	41.0	74.0	-33.0	Mode 2, Low Ch 2404 MHz, EUT Facing Up
9607.750	51.9	-11.5	1.6	1.0	3.0	0.0	Vert	PK	0.0	40.4	74.0	-33.6	Mode 1, Low Ch 2402 MHz, EUT Facing Up
9606.958	51.8	-11.5	1.0	94.0	3.0	0.0	Horz	PK	0.0	40.3	74.0	-33.7	Mode 1, Low Ch 2402 MHz, EUT Facing Up
9704.500	51.9	-11.7	1.2	19.0	3.0	0.0	Vert	PK	0.0	40.2	74.0	-33.8	Mode 1, Mid Ch 2426 MHz, EUT Facing Up
9703.908	51.8	-11.7	1.4	96.0	3.0	0.0	Horz	PK	0.0	40.1	74.0	-33.9	Mode 1, Mid Ch 2426 MHz, EUT Facing Up
9767.800	51.9	-11.8	1.0	79.0	3.0	0.0	Horz	PK	0.0	40.1	74.0	-33.9	Mode 2, Mid Ch 2442 MHz, EUT Facing Up
9921.058	52.2	-12.2	1.0	229.0	3.0	0.0	Horz	PK	0.0	40.0	74.0	-34.0	Mode 1, High Ch 2480 MHz, EUT Horz
9616.108	50.9	-11.5	1.0	81.0	3.0	0.0	Vert	PK	0.0	39.4	74.0	-34.6	Mode 2, Low Ch 2404 MHz, EUT Facing Up

99% 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
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	5/16/2013	12
Signal Generator	Hewlett-Packard	8648D	TGC	11/5/2013	36
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	24
Attenuator, 6dB	S.M. Electronics	18N-06	AWN	3/25/2013	12
Power Meter	Gigatronics	8651A	SPM	11/26/2013	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	36

TEST DESCRIPTION

The 99% occupied bandwidth was measured with the EUT configured for continuous modulated operation at its lowest, middle, and highest transmit frequency in each provided mode of operation. The spectrum analyzer's resolution bandwidth was set to between 1% and 3% of the occupied bandwidth and the video bandwidth was at least 3 times the resolution bandwidth. A sample detector was used



99% OCCUPIED BANDWIDTH

EUT: F4ARND00	Work Order: GARI0006
Serial Number: 3F700050	Date: 12/05/13
Customer: Garmin International	Temperature: 22°C
Attendees: None	Humidity: 23%
Project: None	Barometric Pres.: 1022 mb
Tested by: Brandon Hobbs, Jared Ison	Power: Battery
	Job Site: EV06

TEST SPECIFICATIONS	Test Method
RSS-210:2010	RSS-Gen:2010

COMMENTS
The transmitter modes of operation that were tested were client provided.

DEVIATIONS FROM TEST STANDARD

Configuration #	2	Signature
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		Value	Limit	Result
Mode 1	Low Channel, 2402 MHz	1.210 MHz	N/A	Pass
	Mid Channel, 2426 MHz	1.185 MHz	N/A	Pass
	High Channel, 2480 MHz	1.138 MHz	N/A	Pass
Mode 2	Low Channel, 2404 MHz	1.248 MHz	N/A	Pass
	Mid Channel, 2442 MHz	1.145 MHz	N/A	Pass
	High Channel, 2478 MHz	1.152 MHz	N/A	Pass
Mode 3	Low Channel, 2402 MHz	1.182 MHz	N/A	Pass
	Mid Channel, 2442 MHz	1.130 MHz	N/A	Pass
	High Channel, 2480 MHz	1.105 MHz	N/A	Pass

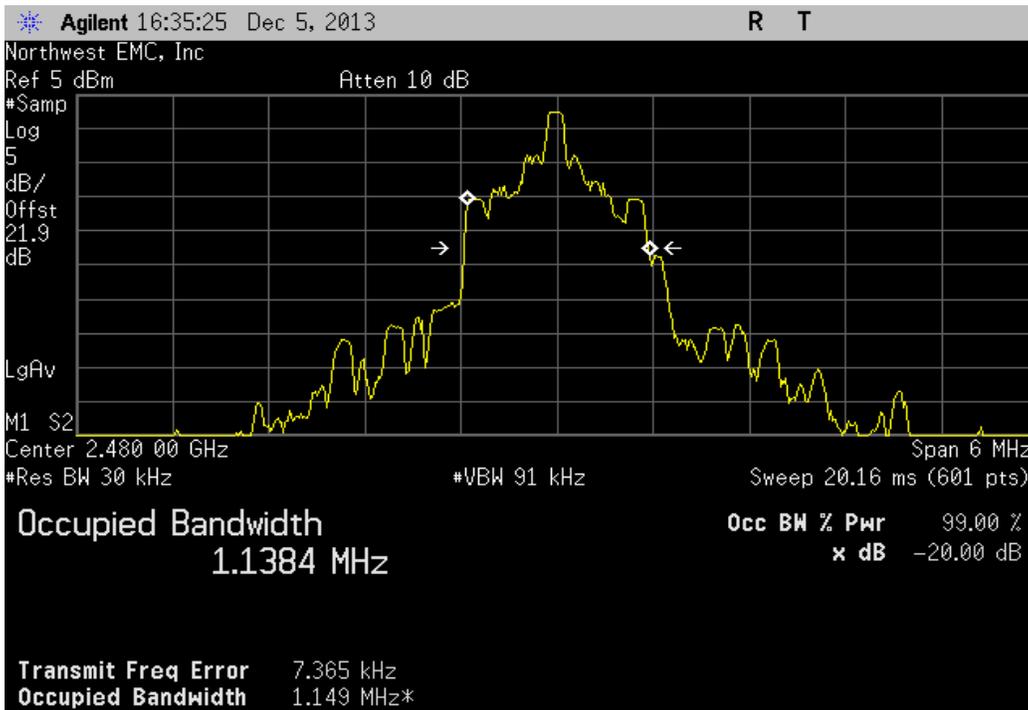
Mode 1, Low Channel, 2402 MHz			
	Value	Limit	Result
	1.210 MHz	N/A	Pass



Mode 1, Mid Channel, 2426 MHz			
	Value	Limit	Result
	1.185 MHz	N/A	Pass



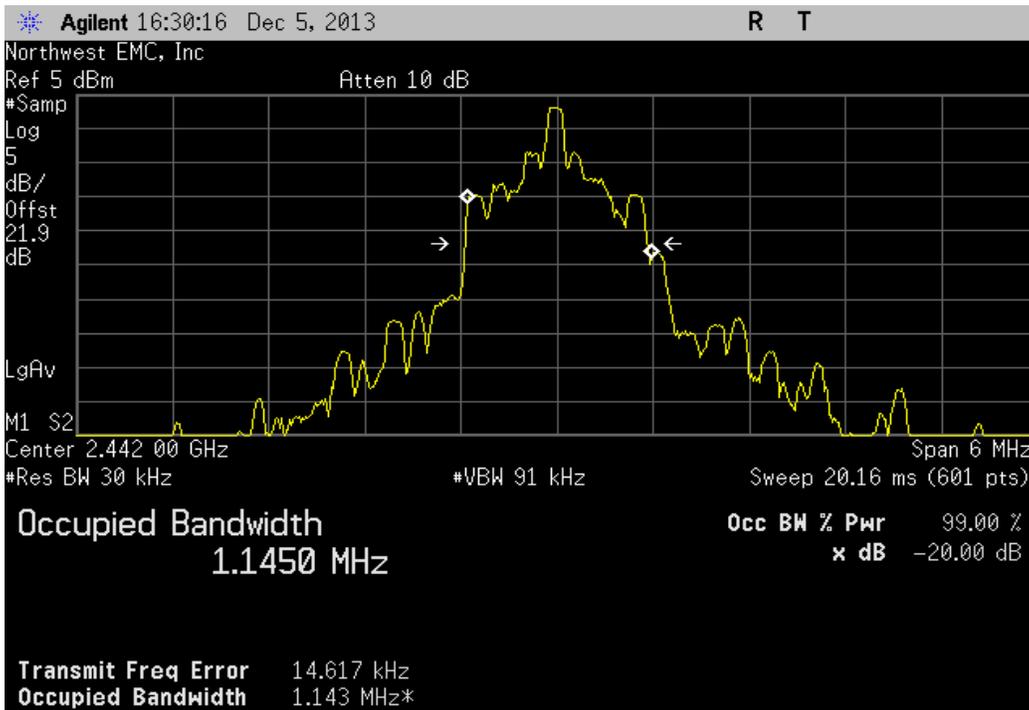
Mode 1, High Channel, 2480 MHz			
	Value	Limit	Result
	1.138 MHz	N/A	Pass



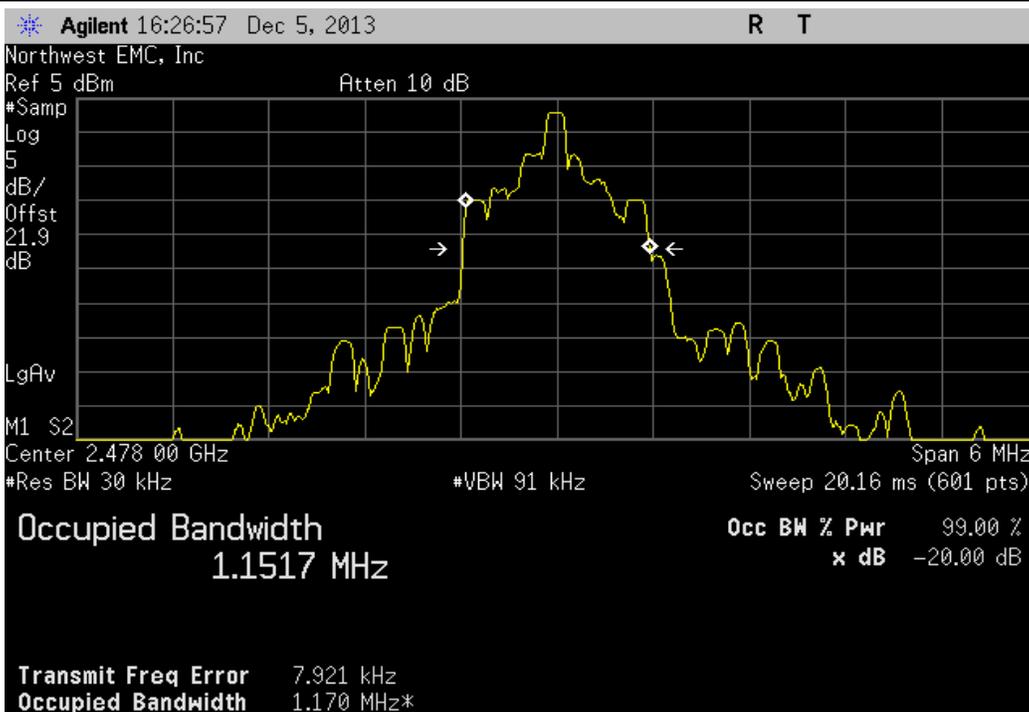
Mode 2, Low Channel, 2404 MHz			
	Value	Limit	Result
	1.248 MHz	N/A	Pass



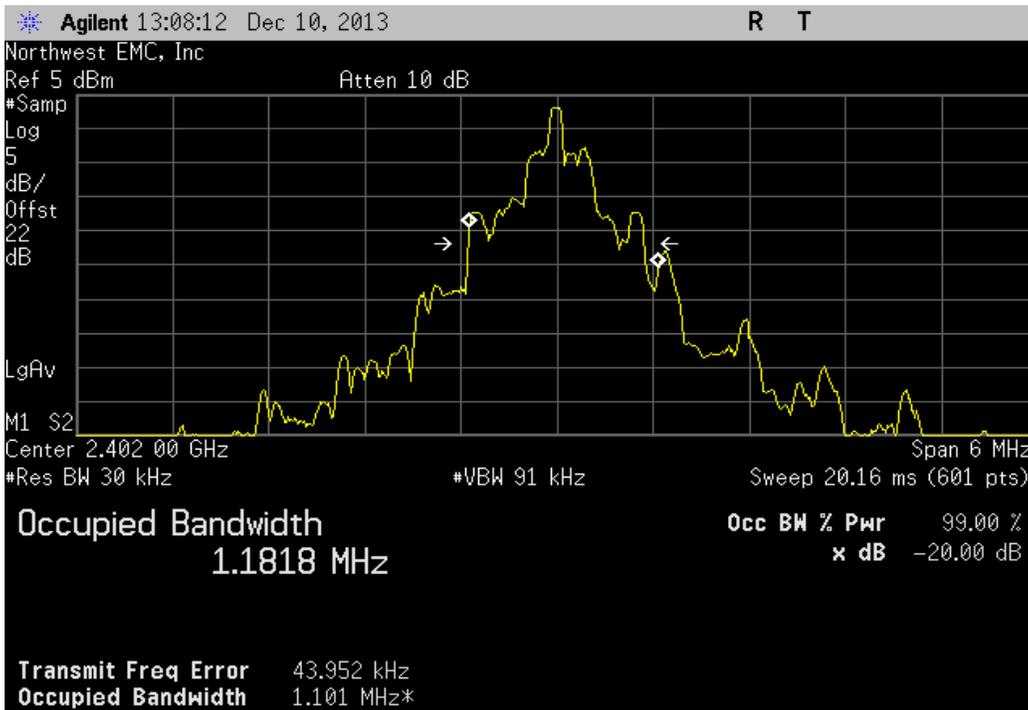
Mode 2, Mid Channel, 2442 MHz			
	Value	Limit	Result
	1.145 MHz	N/A	Pass



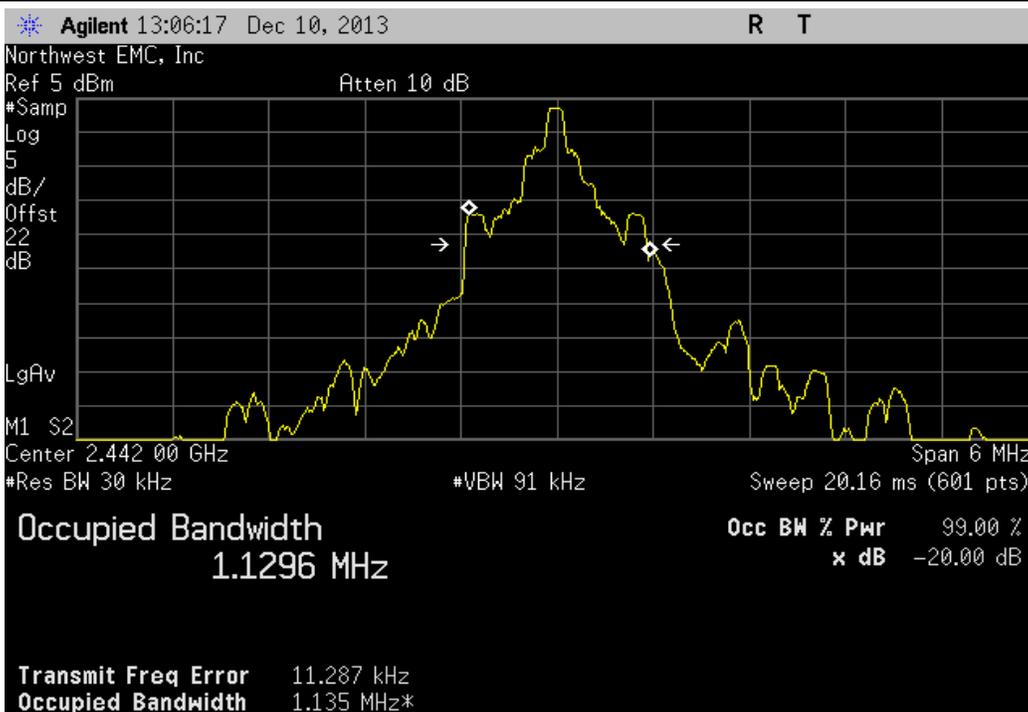
Mode 2, High Channel, 2478 MHz			
	Value	Limit	Result
	1.152 MHz	N/A	Pass



Mode 3, Low Channel, 2402 MHz			
	Value	Limit	Result
	1.182 MHz	N/A	Pass



Mode 3, Mid Channel, 2442 MHz			
	Value	Limit	Result
	1.130 MHz	N/A	Pass



Mode 3, High Channel, 2480 MHz

Value	Limit	Result
1.105 MHz	N/A	Pass

