

ROGERS LABS, INC.

4405 West 259th Terrace
Louisburg, KS 66053
Phone / Fax (913) 837-3214

47CFR, PART 15C - Intentional Radiators 47CFR Paragraph 15.247 and Industry Canada RSS-247 Issue 2 and RSS-GEN Issue 5 Application For Grant of Certification

Model: A04326

2412-2462 MHz (DTS)

Broadband Digital Transmission System

FCC ID: IPH-04326

IC: 1792A-04326

Garmin International, Inc.

1200 East 151st Street
Olathe, KS 66062

FCC Designation: US5305

ISED Registration: 3041A-1

Test Report Number: 211130

Test Date: November 30, 2021 - February 10, 2022

Authorized Signatory: *Scot D Rogers*

Scot D. Rogers

This report shall not be reproduced except in full, without the written approval of the laboratory. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Rogers Labs, Inc.
4405 West 259th Terrace
Louisburg, KS 66053
Phone/Fax: (913) 837-3214
Revision 1

Garmin International, Inc.
HVIN: A04326
Test: 211130
Test to: 47CFR 15C, RSS-Gen RSS-247
File: A04326 DTS TstRpt 211130

SN's: 3390035976, 7CA000030
FCC ID: IPH-04326
IC: 1792A-04326
Date: February 23, 2022
Page 1 of 42

Table of Contents

TABLE OF CONTENTS.....	2
REVISIONS.....	4
EXECUTIVE SUMMARY	5
OPINION / INTERPRETATION OF RESULTS	6
EQUIPMENT TESTED.....	8
Equipment Operational Modes.....	8
Equipment Function	9
Equipment Configuration.....	10
APPLICATION FOR CERTIFICATION.....	11
APPLICABLE STANDARDS & TEST PROCEDURES	12
TESTING PROCEDURES	12
AC Line Conducted Emission Test Procedure	12
Radiated Emission Test Procedure.....	12
Antenna Port Conducted Emission Test Procedure.....	12
Diagram 1 Test arrangement for radiated emissions of tabletop equipment.....	13
Diagram 2 Test arrangement for radiated emissions tested on Open Area Test Site (OATS).....	14
Diagram 3 Test arrangement for Antenna Port Conducted emissions	14
TEST SITE LOCATIONS	15
UNITS OF MEASUREMENTS	15
ENVIRONMENTAL CONDITIONS.....	16
STATEMENT OF MODIFICATIONS AND DEVIATIONS	16
INTENTIONAL RADIATORS.....	16
Antenna Requirements	16

Restricted Bands of Operation	16
Table 1 Radiated Emissions in Restricted Frequency Bands Data Mode 1 802.11b	17
Table 2 Radiated Emissions in Restricted Frequency Bands Data Mode 2 802.11g	18
Summary of Results for Radiated Emissions in Restricted Bands	18
General Radiated Emissions Procedure	19
Table 3 General Radiated Emissions Data	20
Summary of Results for General Radiated Emissions	20
Operation in the Band 2400 – 2483.5 MHz	21
Figure 1 Plot of Transmitter Operation in 2412-2462 MHz Mode 1 802.11b	22
Figure 2 Plot of Transmitter Operation in 2412-2462 MHz Mode 2 802.11g	23
Figure 3 Plot of Transmitter Emissions Low Band Edge Mode 1 802.11b	24
Figure 4 Plot of Transmitter Emissions Low Band Edge Mode 2 802.11g	25
Figure 5 Plot of Transmitter Emissions High Band Edge Mode 1 802.11b.....	26
Figure 6 Plot of Transmitter Emissions High Band Edge Mode 2 802.11g.....	27
Figure 7 Plot of 6-dB Occupied Bandwidth Mode 1 802.11b	28
Figure 8 Plot of 99% Occupied Bandwidth Mode 1 802.11b	29
Figure 9 Plot of 6-dB Occupied Bandwidth Mode 2 802.11g	30
Figure 9 Plot of 99% Occupied Bandwidth Mode 2 802.11g	31
Figure 11 Plot of Transmitter Power Spectral Density Mode 1 802.11b.....	32
Figure 12 Plot of Transmitter Power Spectral Density Mode 2 802.11g.....	33
Transmitter Emissions Data	34
Table 4 Transmitter Radiated Emissions Mode 1 802.11b.....	34
Table 5 Transmitter Radiated Emissions Mode 2 802.11g.....	35
Table 6 Transmitter Antenna Port Conducted Data modes 1 and 2.....	36
Summary of Results for Transmitter Radiated Emissions of Intentional Radiator	36
ANNEX	37
Annex A Measurement Uncertainty Calculations	38
Annex B Test Equipment	39
Annex C Rogers Qualifications	41



NVLAP Lab Code 200087-0

Revisions

Revision 1 Issued February 23, 2022

Rogers Labs, Inc.
4405 West 259th Terrace
Louisburg, KS 66053
Phone/Fax: (913) 837-3214
Revision 1

Garmin International, Inc.
HVIN: A04326
Test: 211130
Test to: 47CFR 15C, RSS-Gen RSS-247
File: A04326 DTS TstRpt 211130

SN's: 3390035976, 7CA000030
FCC ID: IPH-04326
IC: 1792A-04326
Date: February 23, 2022
Page 4 of 42

Executive Summary

The following information is submitted for consideration in obtaining Grant of Certification for License Exempt Digital Transmission System Intentional Radiator operating under Code of Federal Regulations Title 47 (47CFR) Part 15C paragraph 15.247, Industry Canada RSS-247 Issue 2, and RSS-GEN Issue 5, operation in the 2400 – 2483.5 MHz band.

Name of Applicant: Garmin International, Inc.
 1200 East 151st Street
 Olathe, KS 66062

HVIN: A04326

FCC ID: IPH-04326 IC: 1792A-04326

Frequency Range: operation in the 2412-2462 MHz band

Mode	Power (Watts)	99% OBW (kHz)	6-dB OBW (kHz)
Mode 1, 802.11b (DSSS/CCK)	0.029	14,550.0	8,750.0
Mode 2, 802.11g, (OFDM)	0.008	17,120.0	16,538.5

Note, the production device utilizes integral antenna system.

Opinion / Interpretation of Results

Tests Performed	Margin (dB)	Results
Emissions 15.205, RSS-GEN, RSS-247	-3.5	Complies
Emissions as per 47CFR 15.207, RSS-GEN 8.8	N/A	Complies
Radiated Emissions 47 CFR 15.209, RSS-GEN 8.9	-7.9	Complies
Harmonic Emissions per 47CFR 15.247, RSS-247	-1.8	Complies
Power Spectral Density per 47CFR 15.247, RSS-247	-8.1	Complies

Tests performed include

47CFR

15.247 (a) (2) Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

(b) The maximum peak conducted output power of the intentional radiator shall not exceed the following:

(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one-Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the *maximum conducted output power* is the highest total transmit power occurring in any mode.

(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in

accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

RSS-247 Issue 2

5.2 Digital transmission systems

DTS's include systems that employ digital modulation techniques resulting in spectral characteristics similar to direct sequence systems. The following applies to the bands 902-928 MHz and 2400-2483.5 MHz

a) The minimum 6 dB bandwidth shall be 500 kHz.

b) The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

This power spectral density shall be determined in accordance with the provisions of section 5.4(d), (i.e., the power spectral density shall be determined using the same method as is used to determine the conducted output power).

5.4 Transmitter output power and equivalent isotropically radiated power (e.i.r.p.) requirements

d) For DTS's employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

5.5 Unwanted emissions

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.



Equipment Tested

Model: A04326

Garmin International, Inc.
 1200 East 151st Street
 Olathe, KS 66062

<u>Equipment</u>	<u>Model / PN</u>	<u>Serial Number</u>
EUT	A04326	3390035976
EUT2	A04326	7CA000030
Load	011-05737-00	N/A
Load	011-05738-00	N/A
15-meter extension cable	320-01532-20	N/A
Bench DC power supply	BK / 1670A	N961313540
Display	DriveSmart 76	6WZ000234

Test results in this report relate only to the items tested. Worst-case configuration data recorded in this report.

Software: 1.0 or higher Antenna: 2.4 GHz Heat Stake (3 dBi)

Equipment Operational Modes

Mode	Transmitter Operation
1	802.11b (CCK, DSSS)
2	802.11g (OFDM)

Equipment Function

The EUT is a digital transmission system operating from direct current power, providing broadband connectivity with compatible equipment. The unit receives information from the attached load and broadcasts the digital information to remote mounted graphical display. The design offers use as a mobile mounted transportation configuration. The design incorporates transmitter circuitry operating in the 2412-2462 MHz frequency band. The EUT operates from direct current power provided from installation or direct current bench power supply only. The design provides interface for direct current power and proprietary connection to the load. The EUT was arranged as described by the manufacturer emulating typical user configurations for testing purposes. The EUT offers no other interface connections than the configuration options as described by the manufacturer and presented below. For testing purposes, the EUT received power from bench top direct current power supply. As requested by the manufacturer the equipment was tested for emissions compliance using the available configurations with the worse-case data presented. Test results in this report relate only to the products described in this report.

Equipment Configuration

1) EUT operating on direct Current Power (typically vehicle battery)



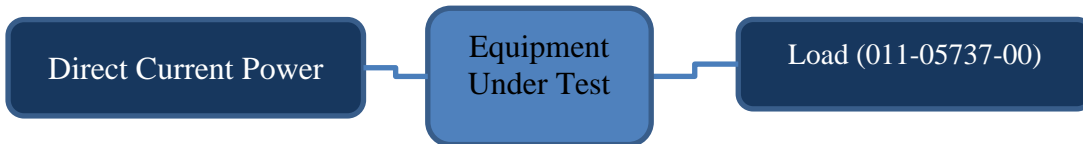
2) EUT operating on direct Current Power w/15m extension cable (320-01532-20)



3) EUT operating on direct Current Power (typically vehicle battery)



4) EUT operating on direct Current Power w/15m extension cable (320-01532-20)



Application for Certification

- (1) Manufacturer: Garmin International, Inc.
1200 East 151st Street
Olathe, KS 66062
- (2) Identification: HVIN: A04326
FCC ID: IPH-04326 IC: 1792A-04326
- (3) Instruction Book:
Refer to Exhibit for Instruction Manual.
- (4) Description of Circuit Functions:
Refer to Exhibit of Operational Description.
- (5) Block Diagram with Frequencies:
Refer to Exhibit of Operational Description.
- (6) Report of Measurements:
Report of measurements follows in this Report.
- (7) Photographs: Construction, Component Placement, etc.:
Refer to Exhibit for photographs of equipment.
- (8) List of Peripheral Equipment Necessary for operation. The equipment operates from direct current battery or external power supply only. The EUT provides proprietary interface port for load as presented in this filing.
- (9) Transition Provisions of 47CFR 15.37 are not requested.
- (10) Not Applicable. The unit is not a scanning receiver.
- (11) Not Applicable. The EUT does not operate in the 59 – 64 GHz frequency band.
- (12) The equipment is not software defined and this section is not applicable.
- (13) Applications for certification of U-NII devices in the 5.15-5.35 GHz and the 5.47-5.85 GHz bands must include a high-level operational description of the security procedures that control the radio frequency operating parameters and ensure that unauthorized modifications cannot be made. This requirement is not applicable to his DTS device.
- (14) Contain at least one drawing or photograph showing the test set-up for each of the required types of tests applicable to the device for which certification is requested. These drawings or photographs must show enough detail to confirm other information contained in the test report. Any photographs used must be focused originals without glare or dark spots and must clearly show the test configuration used. This information is provided in this report and Test Setup Exhibits provided with the application filing.

Applicable Standards & Test Procedures

The following information is submitted in accordance with the eCFR Code of Federal Regulations Title 47 (47CFR), dated February 10, 2022: Part 2, Subpart J, Part 15C Paragraph 15.247, Industry Canada RSS-247 Issue 2, and RSS-GEN Issue 5. Test procedures used are the established Methods of Measurement of Radio-Noise Emissions as described in ANSI C63.10-2013. This report documents compliance for the EUT operations as Digital Transmission Systems operation.

Testing Procedures

AC Line Conducted Emission Test Procedure

The EUT operates form direct current power only and has no provision for connection to utility AC power systems. Therefore, no AC power line conducted emissions testing was taken or required.

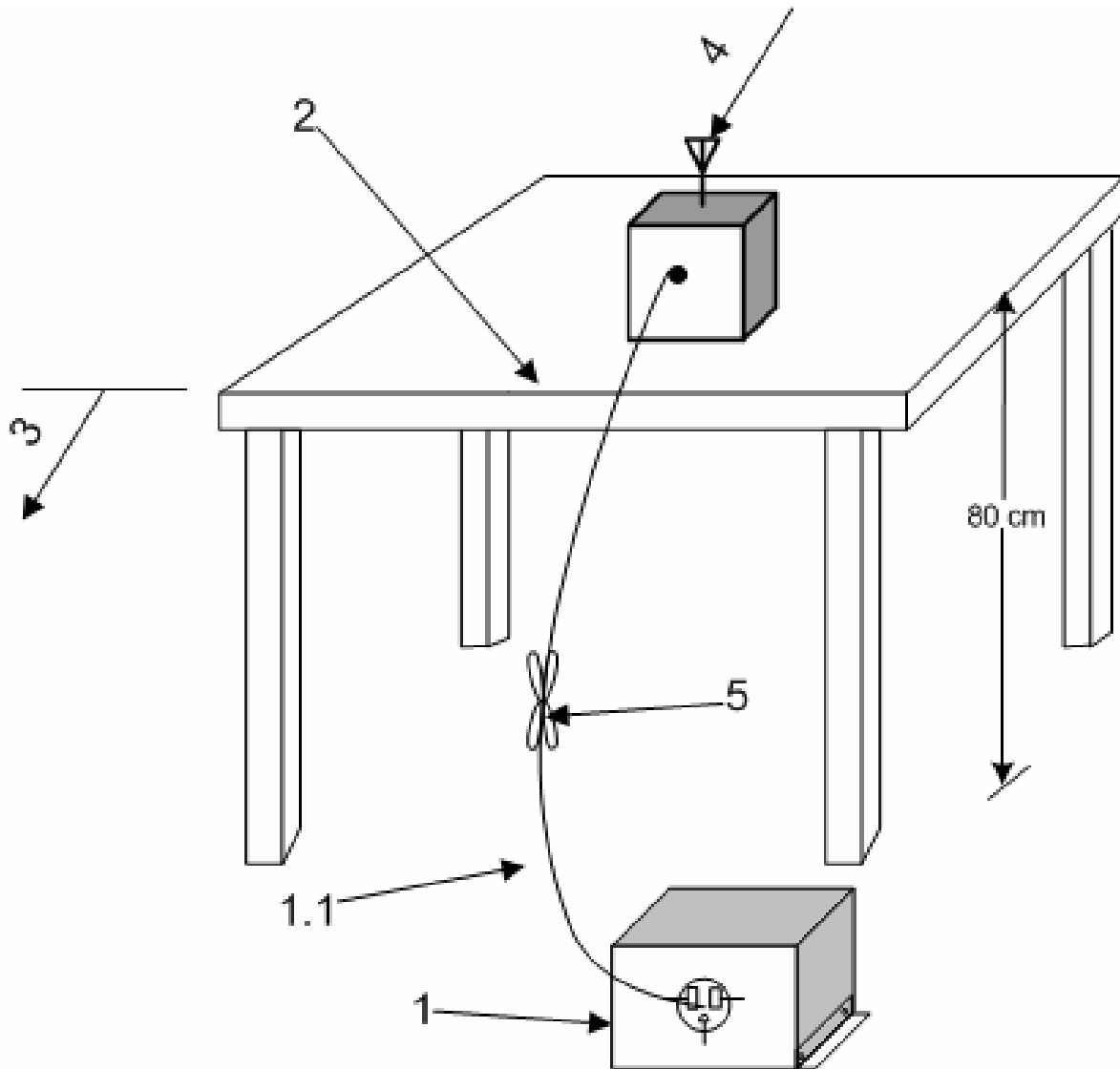
Radiated Emission Test Procedure

Radiated emissions testing was performed as required in 47CFR 15C, RSS-247 Issue 2, RSS-GEN and specified in ANSI C63.10-2013. The EUT was placed on a rotating 0.9 x 1.2-meter platform, elevated as required above the ground plane at a distance of 3 meters from the FSM antenna. EMI energy was maximized by equipment placement permitting orientation in three orthogonal axes, raising, and lowering the FSM antenna, changing the antenna polarization, and by rotating the turntable. Each emission was maximized before data was taken and recorded. The frequency spectrum from 9 kHz to 25,000 MHz was searched for emissions during preliminary investigation. Refer to diagrams one and two showing typical test setup. Refer to photographs in the test setup exhibits for specific EUT placement during testing.

Antenna Port Conducted Emission Test Procedure

The EUT was assembled as required for operation and placed on a benchtop. This configuration provided the ability to connect test equipment to the provided test antenna port Antenna Port conducted emissions testing was performed as presented in this document and specified in ANSI C63.10-2013. Testing was completed on a laboratory bench in a shielded room. The active antenna port of the device was connected to appropriate attenuation and the spectrum analyzer. Refer to diagram three showing typical test arrangement and photographs in the test setup exhibits for specific EUT placement during testing.

Diagram 1 Test arrangement for radiated emissions of tabletop equipment



1—A LISN is optional for radiated measurements between 30 MHz and 1000 MHz but not allowed for measurements below 30 MHz and above 1000 MHz (see 6.3.1). If used, then connect EUT to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. The LISN may be placed on top of, or immediately beneath, the reference ground plane (see 6.2.2 and 6.2.3.2).

1.1—LISN spaced at least 80 cm from the nearest part of the EUT chassis.

2—Antenna can be integral or detachable, depending on the EUT (see 6.3.1).

3—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long (see 6.3.1).

4—For emission measurements at or below 1 GHz, the table height shall be 80 cm. For emission measurements above 1 GHz, the table height shall be 1.5 m for measurements, except as otherwise specified (see 6.3.1 and 6.6.3.1).

Diagram 2 Test arrangement for radiated emissions tested on Open Area Test Site (OATS)

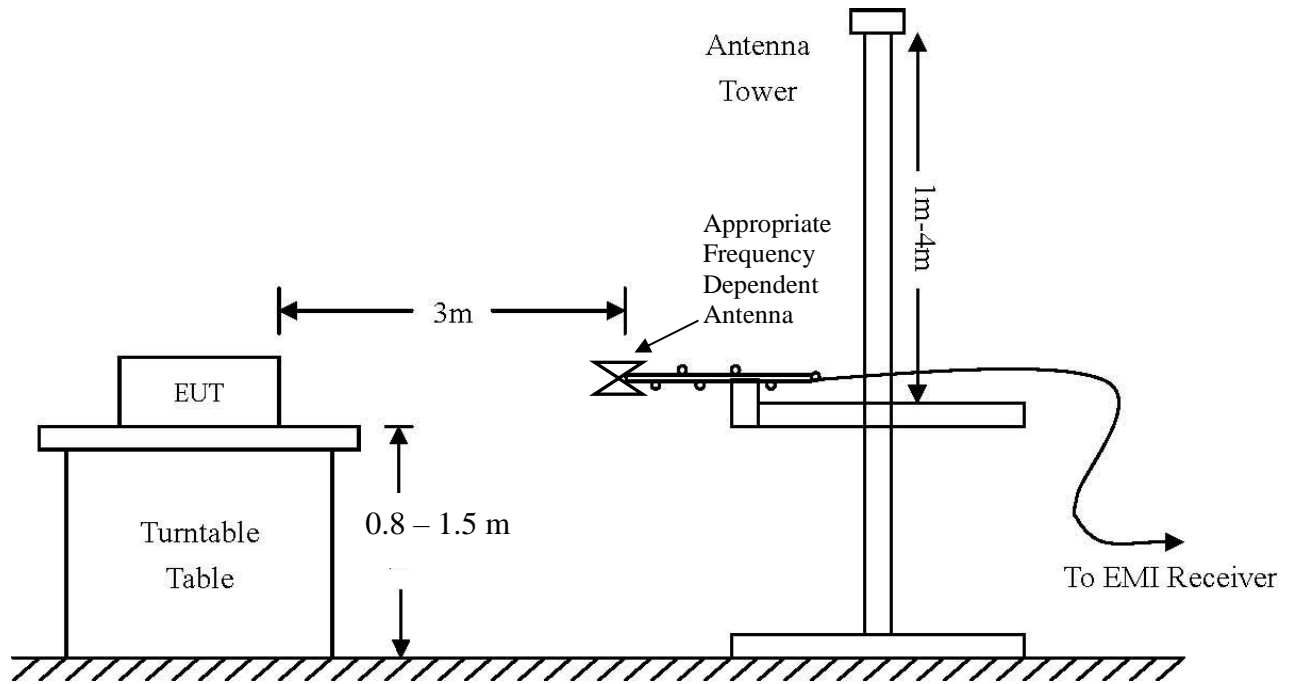
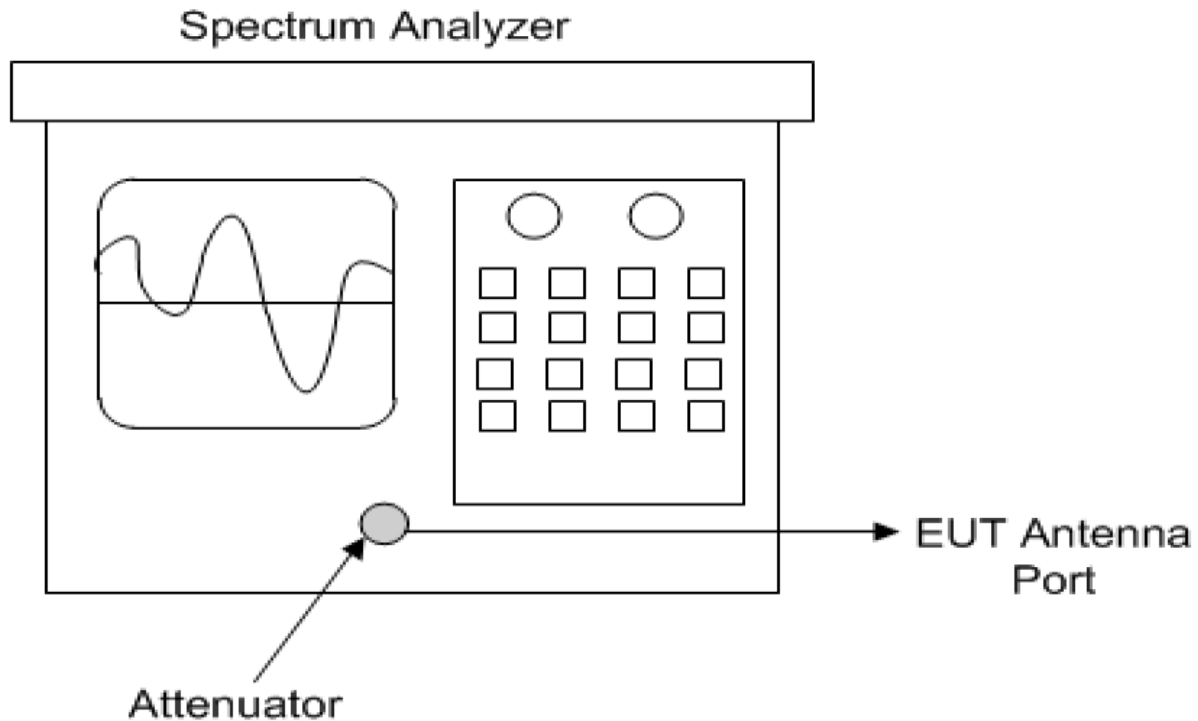


Diagram 3 Test arrangement for Antenna Port Conducted emissions



Test Site Locations

Conducted EMI AC line conducted emissions testing performed in a shielded screen room located at Rogers Labs, Inc., 4405 West 259th Terrace, Louisburg, KS

Antenna port Antenna port conducted emissions testing was performed in a shielded screen room located at Rogers Labs, Inc., 4405 West 259th Terrace, Louisburg, KS

Radiated EMI The radiated emissions tests were performed at the 3 meters, Open Area Test Site (OATS) located at Rogers Labs, Inc., 4405 West 259th Terrace, Louisburg, KS

Registered Site information: FCC Site: US5305, ISED: 3041A, CAB Identifier: US0096

NVLAP Accreditation Lab code 200087-0

Units of Measurements

Conducted EMI Data presented in dB μ V; dB referenced to one microvolt

Antenna port Conducted Data is in dBm; dB referenced to one milliwatt

Radiated EMI Data presented in dB μ V/m; dB referenced to one microvolt per meter

Note: Radiated limit may be expressed for measurement in dB μ V/m when the measurement is taken at a distance of 3 or 10 meters. Data taken for this report was taken at distance of 3 meters.

Sample calculation demonstrates corrected field strength reading for Open Area Test Site using the measurement reading and correcting for receive antenna factor, cable losses, and amplifier gains.

Sample Calculation:

RFS = Radiated Field Strength, FSM = Field Strength Measured

A.F. = Receive antenna factor, Losses = attenuators/cable losses, Gain = amplification gains

$RFS (dB\mu V/m @ 3m) = FSM (dB\mu V) + A.F. (dB/m) + Losses (dB) - Gain (dB)$



Environmental Conditions

Ambient Temperature	21.2-23.0° C
Relative Humidity	33-40 %
Atmospheric Pressure	1016.6-1024.1 mb

Statement of Modifications and Deviations

No modifications to the EUT were required for the unit to demonstrate compliance with 47CFR Part 15C, RSS-247 Issue 2, and RSS-GEN Issue 5 emission requirements. There were no deviations to the specifications.

Intentional Radiators

The following information is submitted in support demonstration of compliance with the requirements of 47CFR, Paragraph 15 Subpart C, paragraph 15.247, Industry Canada RSS-247 Issue 2, and RSS-GEN Issue 5.

Antenna Requirements

The EUT incorporates integral Heat Stake antenna design. Production equipment offers no provision for connection to alternate antenna system. The antenna connection point complies with the unique antenna connection requirements. There are no deviations or exceptions to the specification.

Restricted Bands of Operation

Spurious emissions falling in the restricted frequency bands of operation were measured at the OATS. The EUT utilizes frequency, determining circuitry, which generates harmonics falling in the restricted bands. Emissions were investigated at the OATS, using appropriate antennas or pyramidal horns, amplification stages, and a spectrum analyzer. Peak and average amplitudes of frequencies above 1000 MHz were compared to the required limits with worst-case data presented below. Test procedures of ANSI C63.10-2013 were used during testing. No other significant emission was observed which fell into the restricted bands of operation. Computed emission values

consider the received radiated field strength, receive antenna correction factor, amplifier gain stage, and test system cable losses.

Table 1 Radiated Emissions in Restricted Frequency Bands Data Mode 1 802.11b

Frequency in MHz	Horizontal Peak (dB μ V/m)	Horizontal Average (dB μ V/m)	Vertical Peak (dB μ V/m)	Vertical Average (dB μ V/m)	Limit @ 3m (dB μ V/m)	Horizontal Margin (dB)	Vertical Margin (dB)
2390.0	68.0	44.9	63.7	35.2	54.0	-9.1	-18.8
2483.5	73.1	42.2	67.1	35.3	54.0	-11.8	-18.7
4824.0	51.1	40.2	49.5	36.8	54.0	-13.8	-17.2
4874.0	49.6	36.8	49.6	36.6	54.0	-17.2	-17.4
4924.0	49.9	36.5	49.7	36.6	54.0	-17.5	-17.4
7236.0	53.0	40.3	53.9	40.4	54.0	-13.7	-13.6
7311.0	53.7	40.4	53.1	40.4	54.0	-13.6	-13.6
7386.0	53.6	40.5	54.0	40.4	54.0	-13.5	-13.6
12060.0	59.3	46.6	59.1	46.4	54.0	-7.4	-7.6
12185.0	60.4	47.3	61.3	47.3	54.0	-6.7	-6.7
12310.0	59.7	46.9	60.5	47.5	54.0	-7.1	-6.5

Other emissions present had amplitudes at least 20 dB below the limit. Peak and Quasi-Peak amplitude emissions are recorded for frequency below 1000 MHz. Peak and Average amplitude emissions are recorded for frequency range above 1000 MHz.

Table 2 Radiated Emissions in Restricted Frequency Bands Data Mode 2 802.11g

Frequency in MHz	Horizontal Peak (dBµV/m)	Horizontal Average (dBµV/m)	Vertical Peak (dBµV/m)	Vertical Average (dBµV/m)	Limit @ 3m (dBµV/m)	Horizontal Margin (dB)	Vertical Margin (dB)
2390.0	73.7	50.5	62.4	40.2	54.0	-3.5	-13.8
2483.5	73.9	50.4	66.9	41.7	54.0	-3.6	-12.3
4824.0	50.2	36.4	49.3	36.3	54.0	-17.6	-17.7
4874.0	49.7	36.6	50.2	36.4	54.0	-17.4	-17.6
4924.0	49.6	36.6	49.3	36.5	54.0	-17.4	-17.5
7236.0	53.0	40.2	52.7	40.1	54.0	-13.8	-13.9
7311.0	53.0	40.3	53.4	40.3	54.0	-13.7	-13.7
7386.0	53.9	40.3	53.2	40.4	54.0	-13.7	-13.6
12060.0	59.9	46.6	59.6	46.7	54.0	-7.4	-7.3
12185.0	60.4	47.3	60.3	47.3	54.0	-6.7	-6.7
12310.0	59.9	47.5	60.4	47.6	54.0	-6.5	-6.4

Other emissions present had amplitudes at least 20 dB below the limit. Peak and Quasi-Peak amplitude emissions are recorded for frequency below 1000 MHz. Peak and Average amplitude emissions are recorded for frequency range above 1000 MHz.

Summary of Results for Radiated Emissions in Restricted Bands

The EUT demonstrated compliance with the radiated emissions requirements of 47CFR Paragraph 15, Subpart 15C, RSS-247 Issue 2, and RSS-GEN Issue 5 emission requirements. The EUT worst-case operations demonstrated a minimum radiated emission margin of -3.5 dB below the requirements in restricted frequency bands. Peak, Quasi-peak, and average amplitudes were checked for compliance with the regulations. Worst-case emissions are reported with other emissions found in the restricted frequency bands at least 20 dB below the requirements.

General Radiated Emissions Procedure

The EUT was arranged in a typical equipment configuration and operated through all available mode during testing. Preliminary testing was performed in a screen room with the EUT positioned 1 meter from the FSM. Radiated emissions measurements were performed to identify the frequencies, which produced the highest emissions. Each radiated emission was then maximized at the OATS location before final radiated measurements were performed. Final data was taken with the EUT located on the OATS at 3 meters distance between the EUT and the receiving antenna. The frequency spectrum from 9 kHz to 25,000 MHz was searched for general radiated emissions. Measured emission levels were maximized by EUT placement on the table, rotating the turntable through 360 degrees, varying the antenna height between 1 and 4 meters above the ground plane and changing antenna position between horizontal and vertical polarization. Antennas used were Loop from 9 kHz to 30 MHz, Broadband Biconical from 30 to 200 MHz, Biconilog from 30 to 1000 MHz, Log Periodic from 200 MHz to 1 GHz and or double Ridge or pyramidal horns and mixers above 1 GHz, notch filters and appropriate amplifiers and external mixers were utilized.

Table 3 General Radiated Emissions Data

Frequency (MHz)	Horizontal Peak (dB μ V/m)	Horizontal Quasi-Peak (dB μ V/m)	Vertical Peak (dB μ V/m)	Vertical Quasi-Peak (dB μ V/m)	Limit @ 3m (dB μ V/m)	Horizontal Margin (dB)	Vertical Margin (dB)
72.0	33.8	27.2	32.9	24.1	40.0	-12.8	-15.9
480.0	35.3	31.3	30.6	27.4	47.0	-15.7	-19.6
624.0	34.5	29.4	37.4	30.9	47.0	-17.6	-16.1
672.0	35.1	30.4	32.4	27.7	47.0	-16.6	-19.3
720.0	38.5	33.1	36.3	30.7	47.0	-13.9	-16.3
768.0	38.7	36.2	34.8	30.9	47.0	-10.8	-16.1
864.0	39.5	35.0	38.7	34.6	47.0	-12.0	-12.4
912.0	41.0	39.1	42.1	38.6	47.0	-7.9	-8.4
960.0	34.5	30.3	38.4	34.8	47.0	-16.7	-12.2

Other emissions present had amplitudes at least 20 dB below the limit. Peak and Quasi-Peak amplitude emissions are recorded for frequency range below 1000 MHz. Peak and Average amplitude emissions are recorded for frequency range above 1000 MHz.

Summary of Results for General Radiated Emissions

The EUT demonstrated compliance with the radiated emissions requirements of 47CFR Paragraph 15.209, RSS-247 Issue 2 and RSS-GEN Issue 5 emission requirements. The EUT demonstrated a minimum margin of -7.9 dB below the requirements. Other emissions were present with amplitudes at least 20 dB below the Limits.

Operation in the Band 2400 – 2483.5 MHz

Test procedures of ANSI C63.10-2013 paragraph 6, and KDB 558074 v05r02 were used during transmitter testing. Test sample #2 was provided for testing antenna port conducted emissions. This sample was modified by replacing the internal antenna with a 50-ohm antenna port connector and attenuator for testing purposes. The transmitter peak and average power was measured at the antenna port using a wideband RF power meter as described in ANSI C63.10-2013 and KDB 558074. Average power measured did not include any time intervals during which the transmitter was off or transmitting at a reduced power level. The Power Spectral Density (PSD) was measured as required in ANSI C63.10-2013 and KDB 558074. DTS Emission bandwidth was measured as required in ANSI C63.10-2013 and KDB 558074. The amplitude of each harmonic and general radiated emission was measured on the OATS at distance of 3 meters from the FSM antenna (radiated emission testing was performed on sample #1 representative of production equipment with integral antenna). The EUT was positioned on supporting turntable elevated as required above the ground plane, at a distance of 3 meters from the FSM antenna. Radiated emission investigations were performed from 9 kHz to 25,000 MHz. Each radiated emission was maximized by varying the FSM antenna height and polarization, and by rotating the turntable. The worst-case amplitude of each emission was then recorded from the analyzer display. The peak and quasi-peak amplitude of frequencies below 1000 MHz were measured using a spectrum analyzer. The peak and average amplitude of frequencies above 1000 MHz were measured using a spectrum analyzer. A Loop antenna was used for measuring emissions from 0.009 to 30 MHz, Biconilog Antenna for 30 to 1000 MHz, Double-Ridge, and/or Pyramidal Horn Antennas from 1 GHz to 25 GHz. Radiated Emissions were measured in dB μ V/m @ 3 meters. Plots were taken of transmitter performance (using sample #2) for reference in this and other documentation displaying compliance with the specifications.

Figure 1 Plot of Transmitter Operation in 2412-2462 MHz Mode 1 802.11b

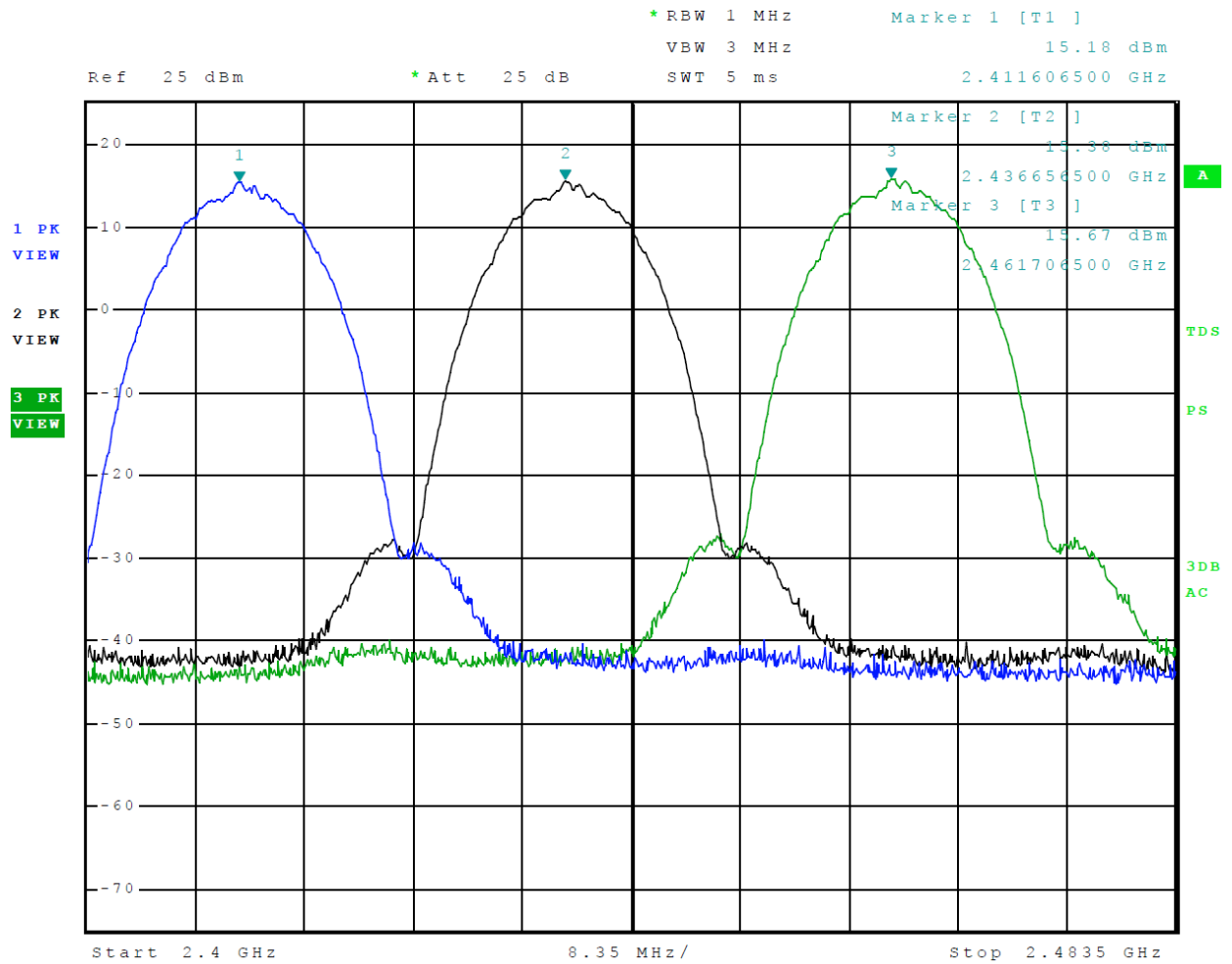


Figure 2 Plot of Transmitter Operation in 2412-2462 MHz Mode 2 802.11g

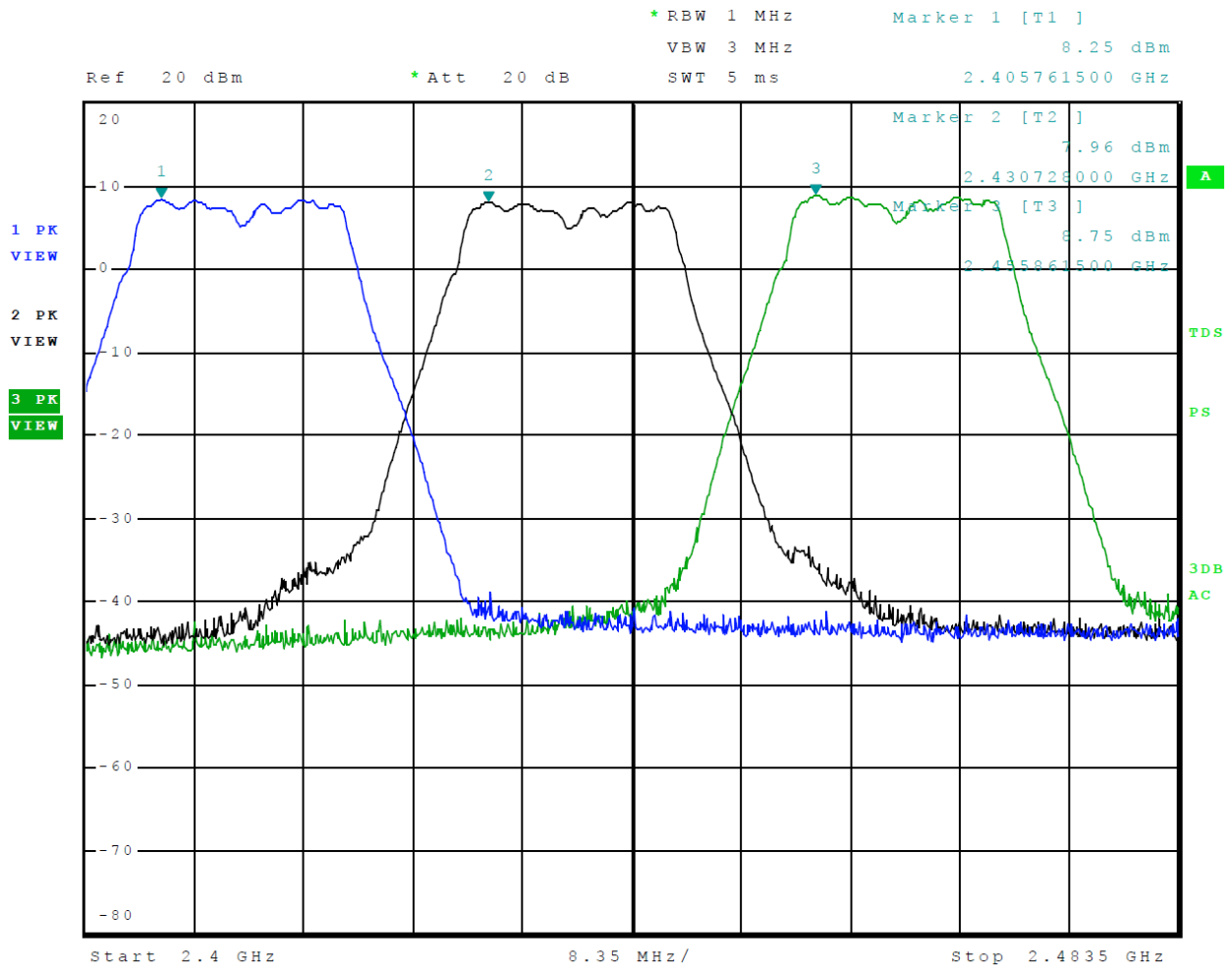


Figure 3 Plot of Transmitter Emissions Low Band Edge Mode 1 802.11b

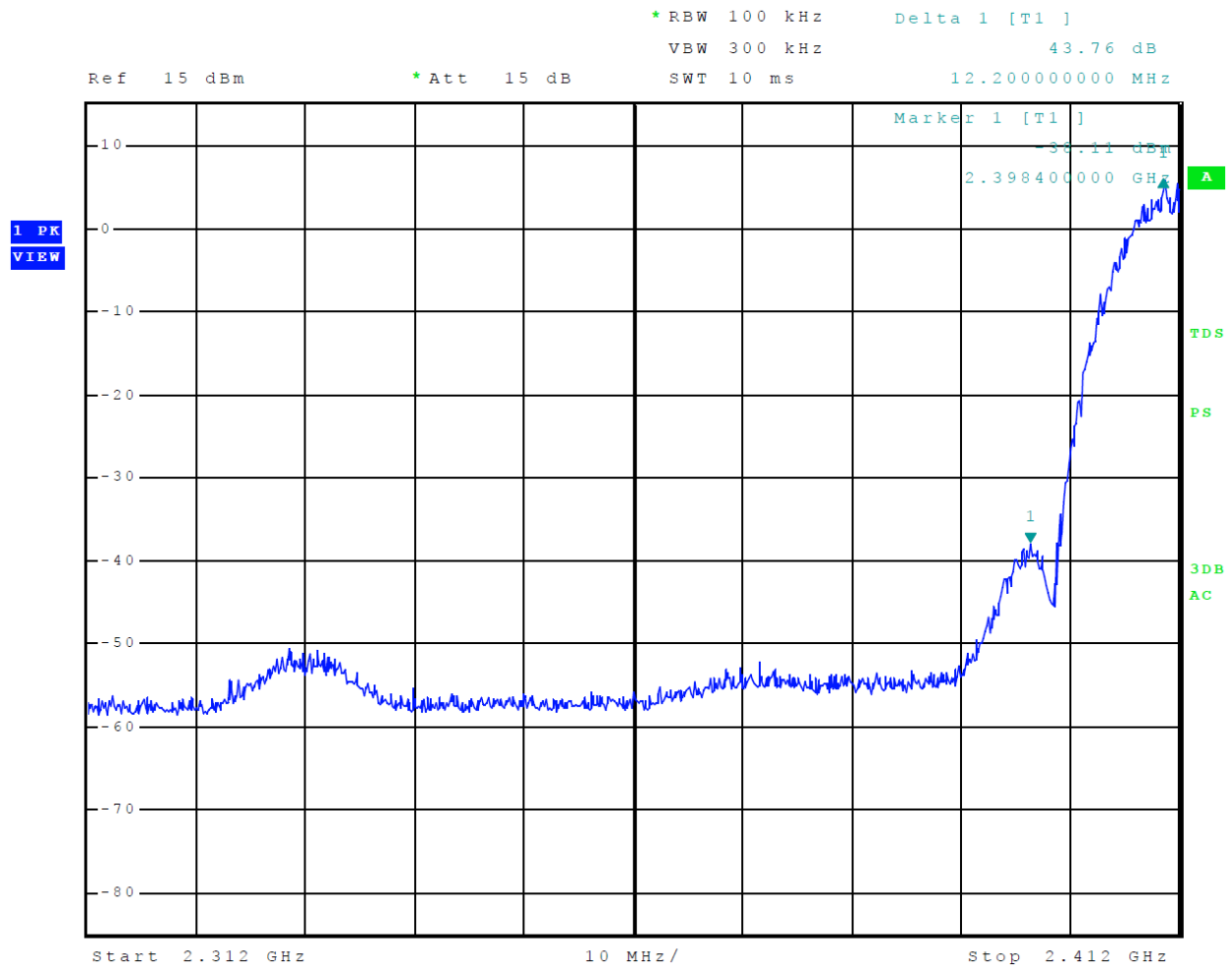


Figure 4 Plot of Transmitter Emissions Low Band Edge Mode 2 802.11g

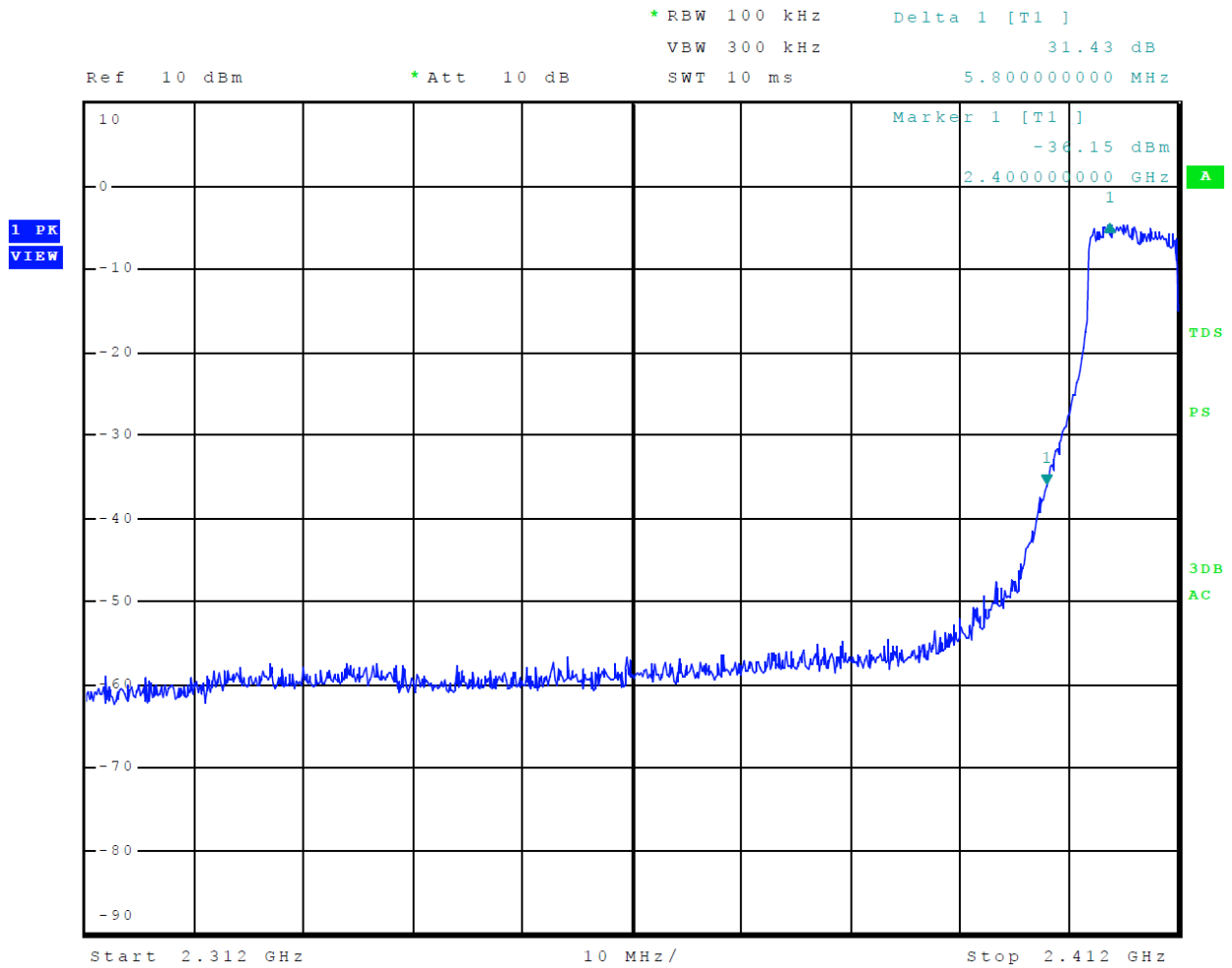


Figure 5 Plot of Transmitter Emissions High Band Edge Mode 1 802.11b

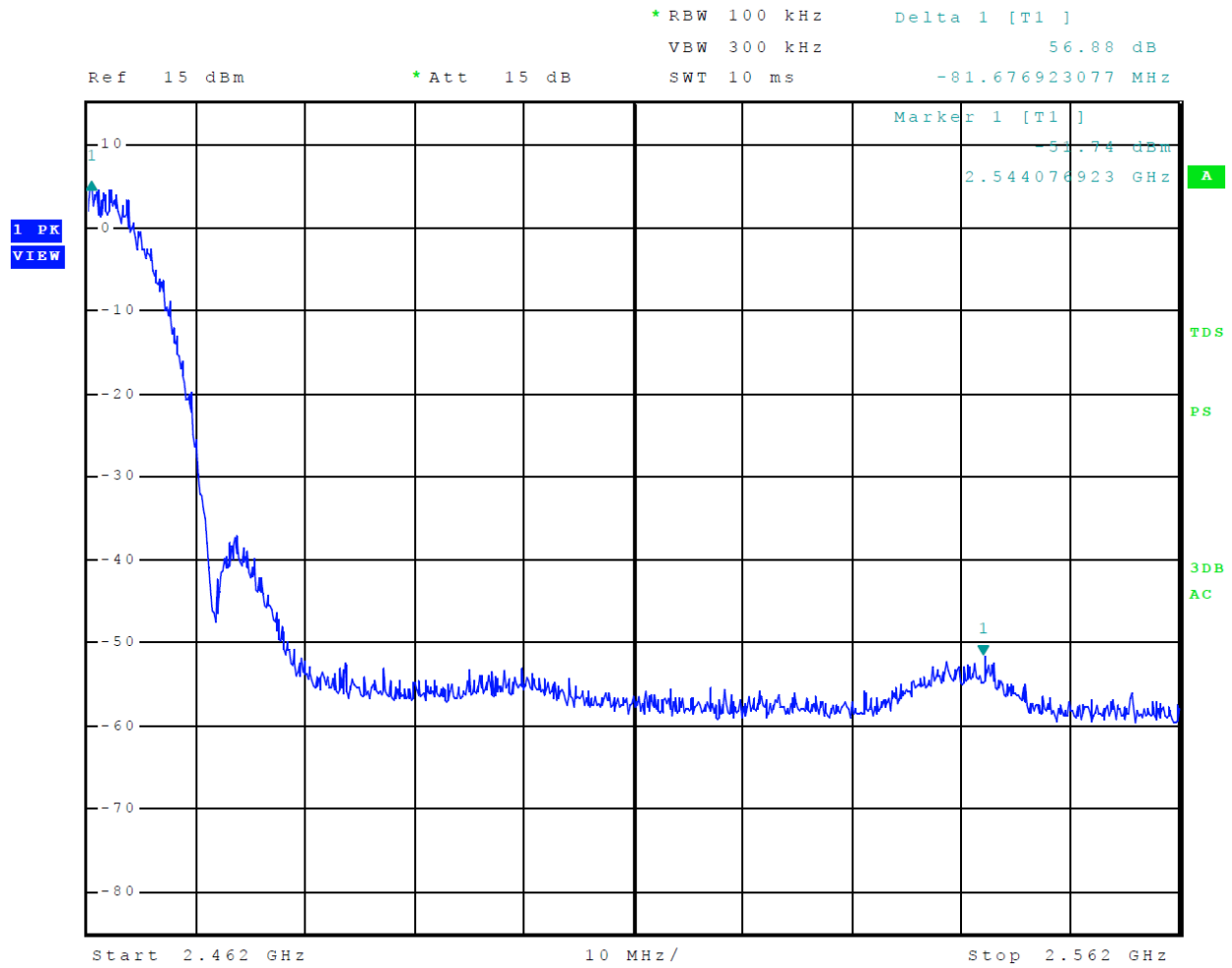


Figure 6 Plot of Transmitter Emissions High Band Edge Mode 2 802.11g

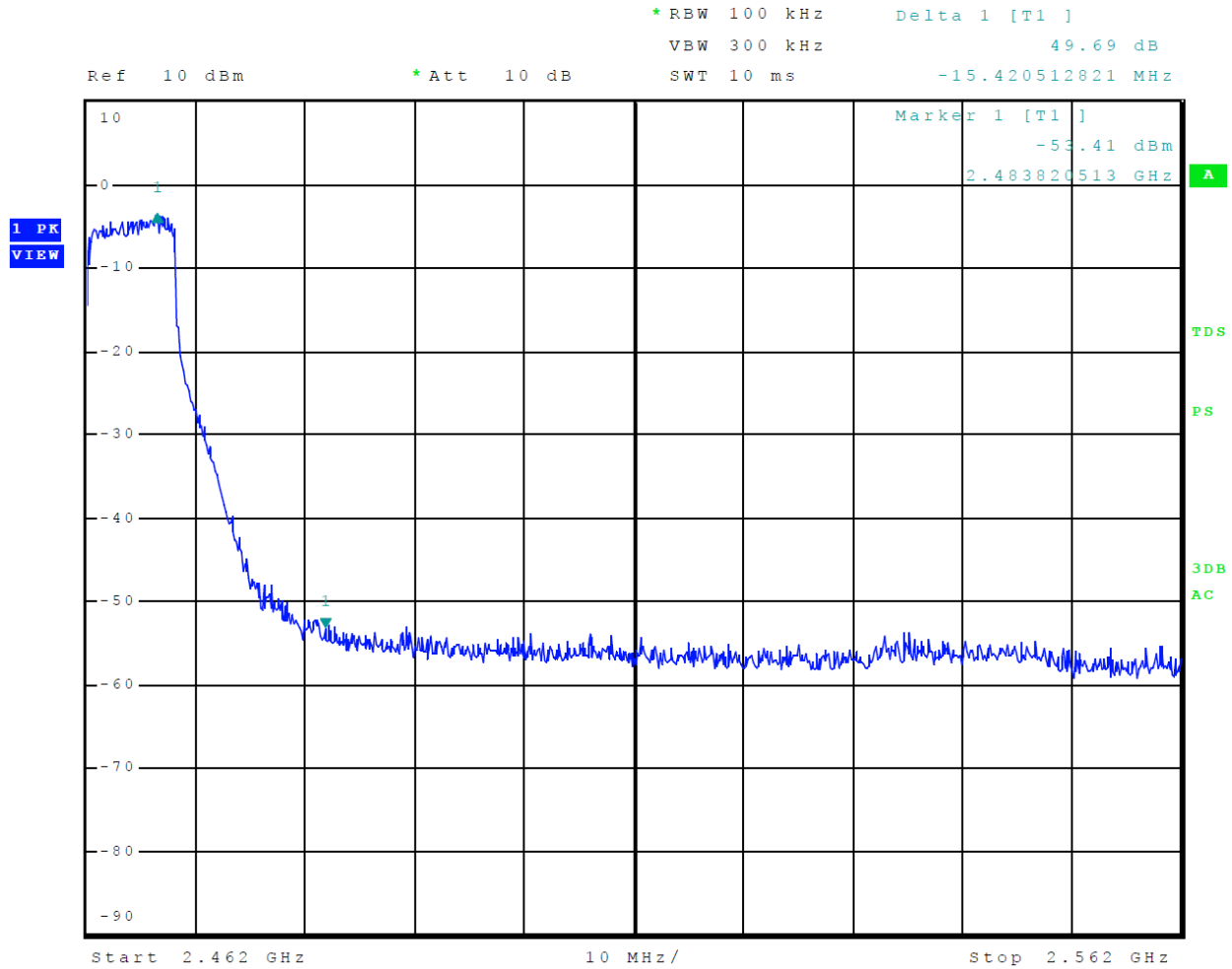


Figure 7 Plot of 6-dB Occupied Bandwidth Mode 1 802.11b

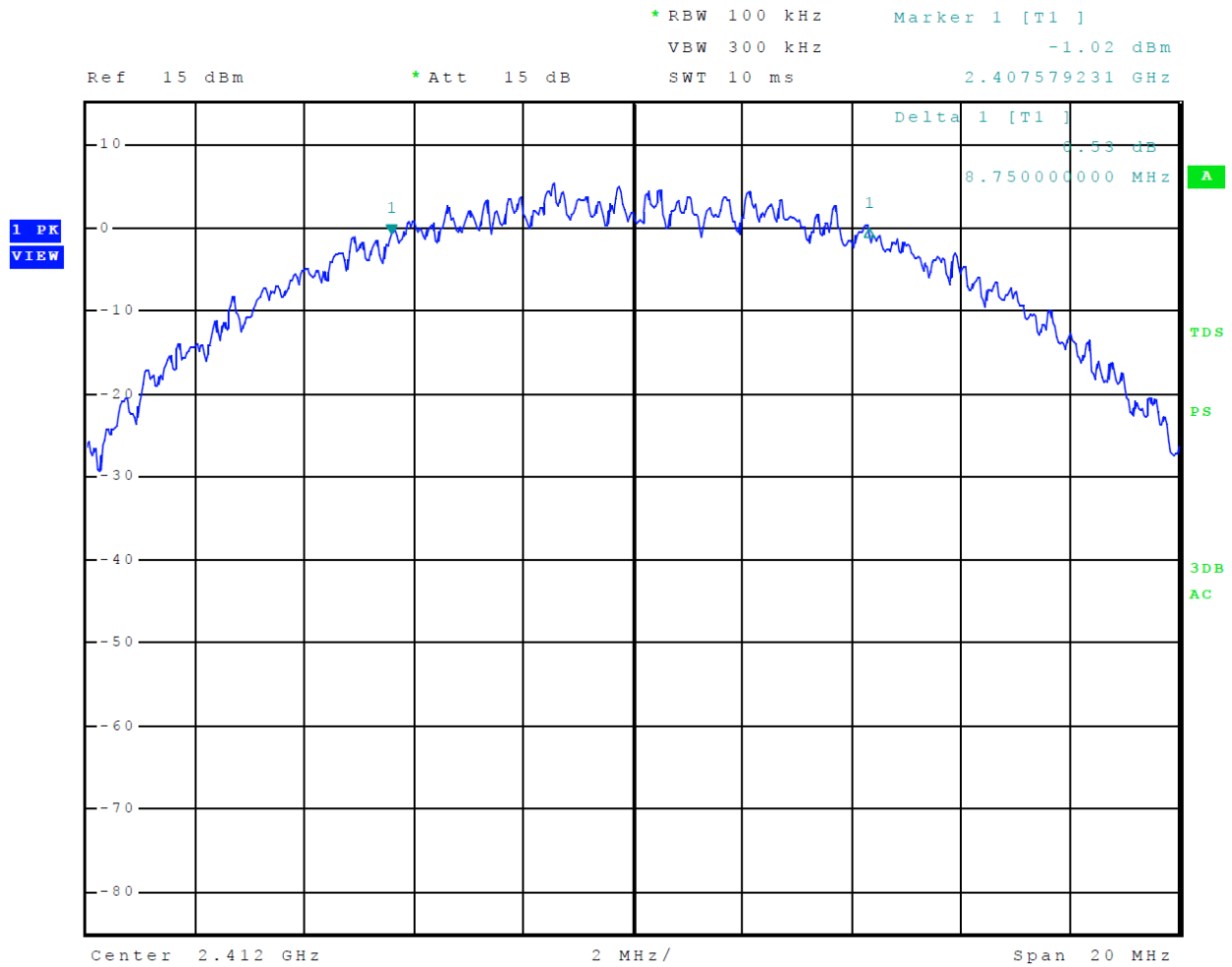


Figure 8 Plot of 99% Occupied Bandwidth Mode 1 802.11b

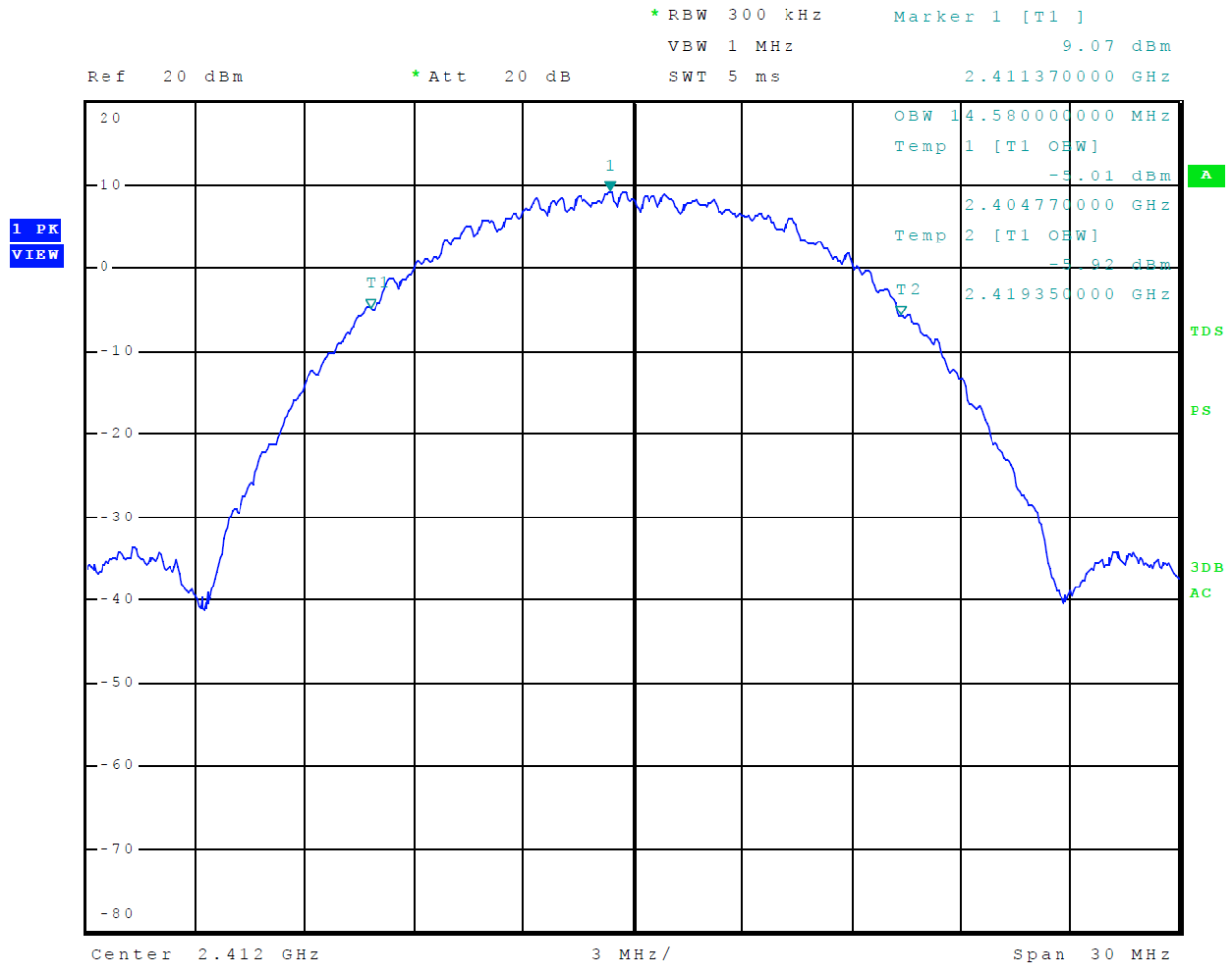


Figure 9 Plot of 6-dB Occupied Bandwidth Mode 2 802.11g

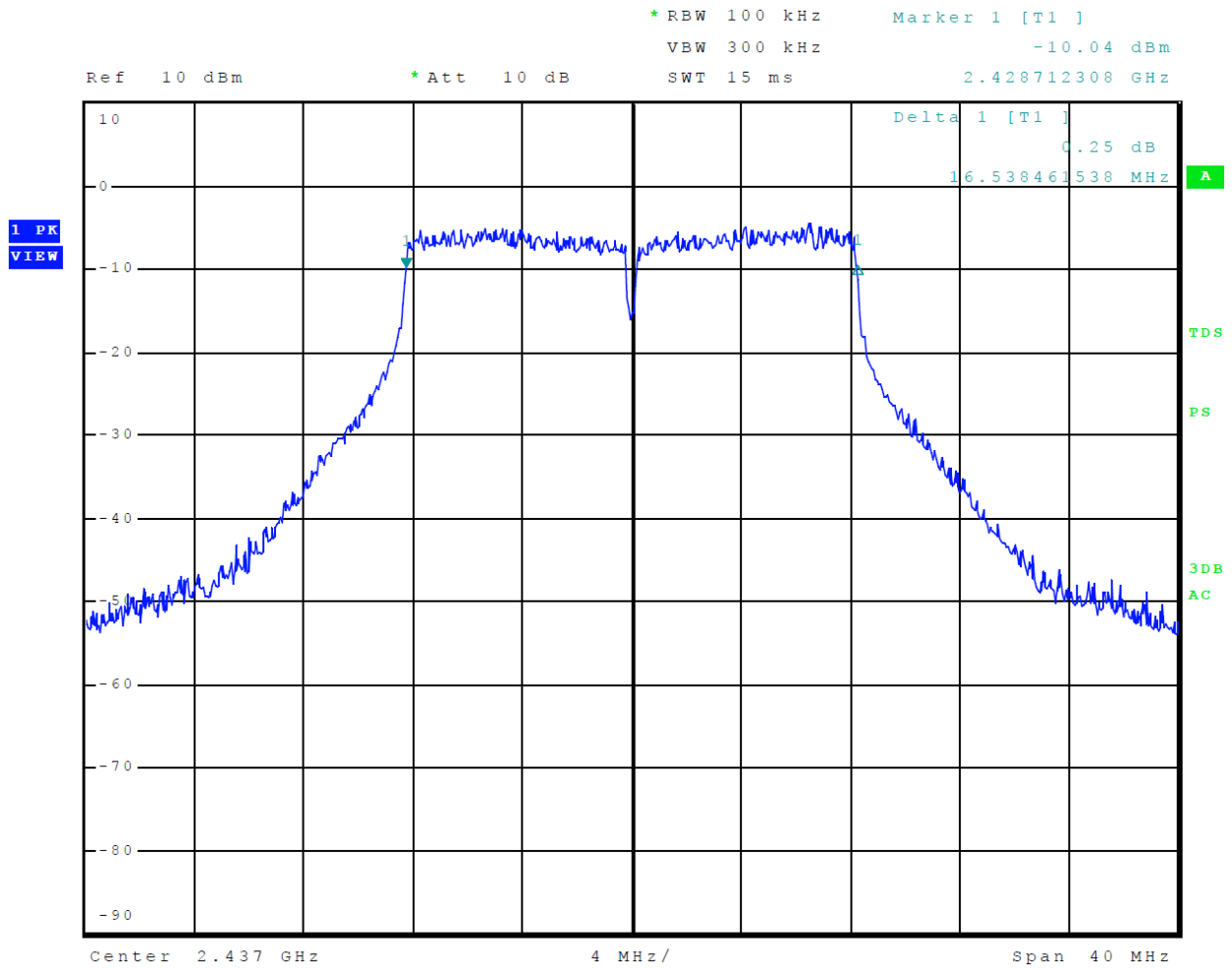


Figure 9 Plot of 99% Occupied Bandwidth Mode 2 802.11g

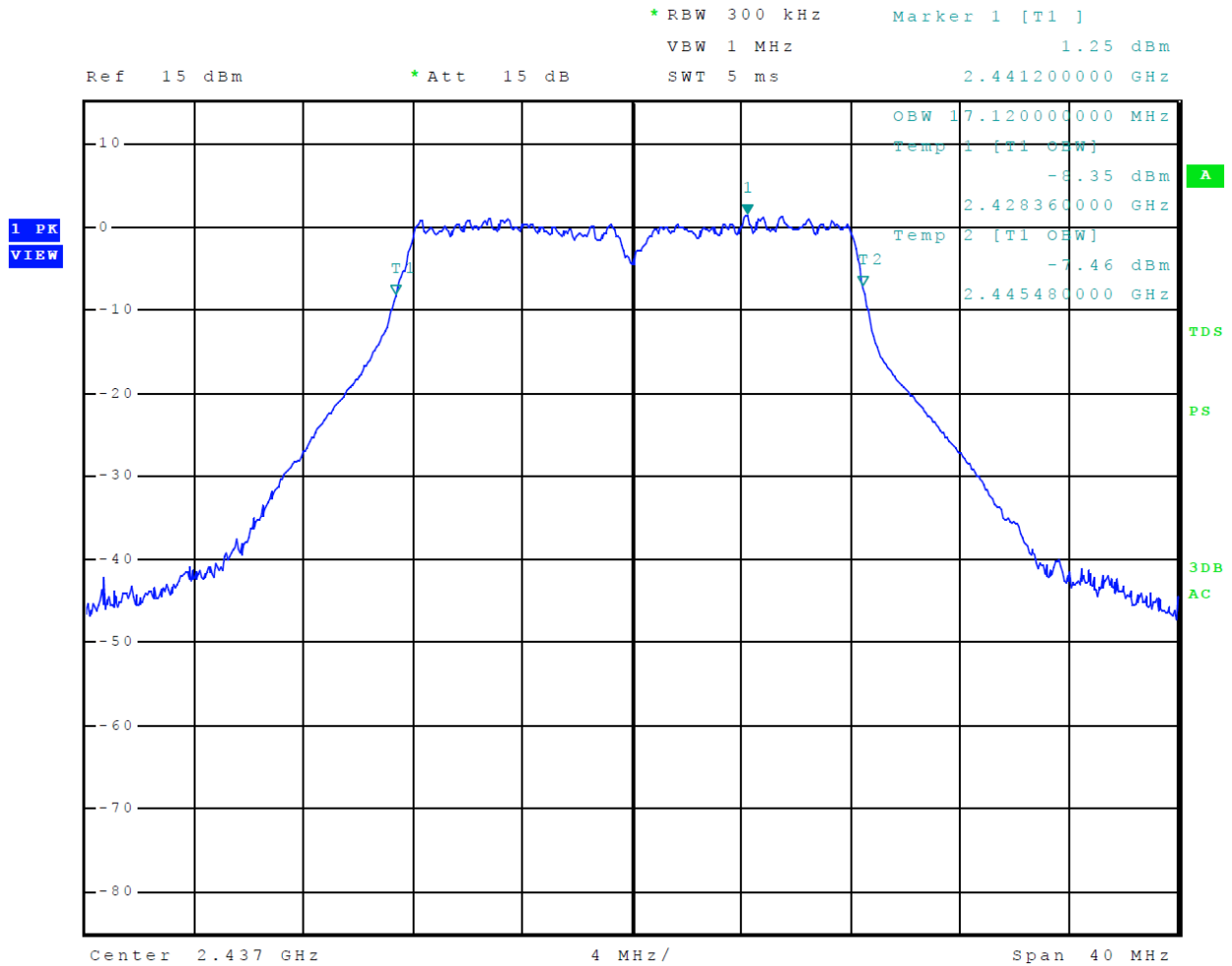


Figure 11 Plot of Transmitter Power Spectral Density Mode 1 802.11b

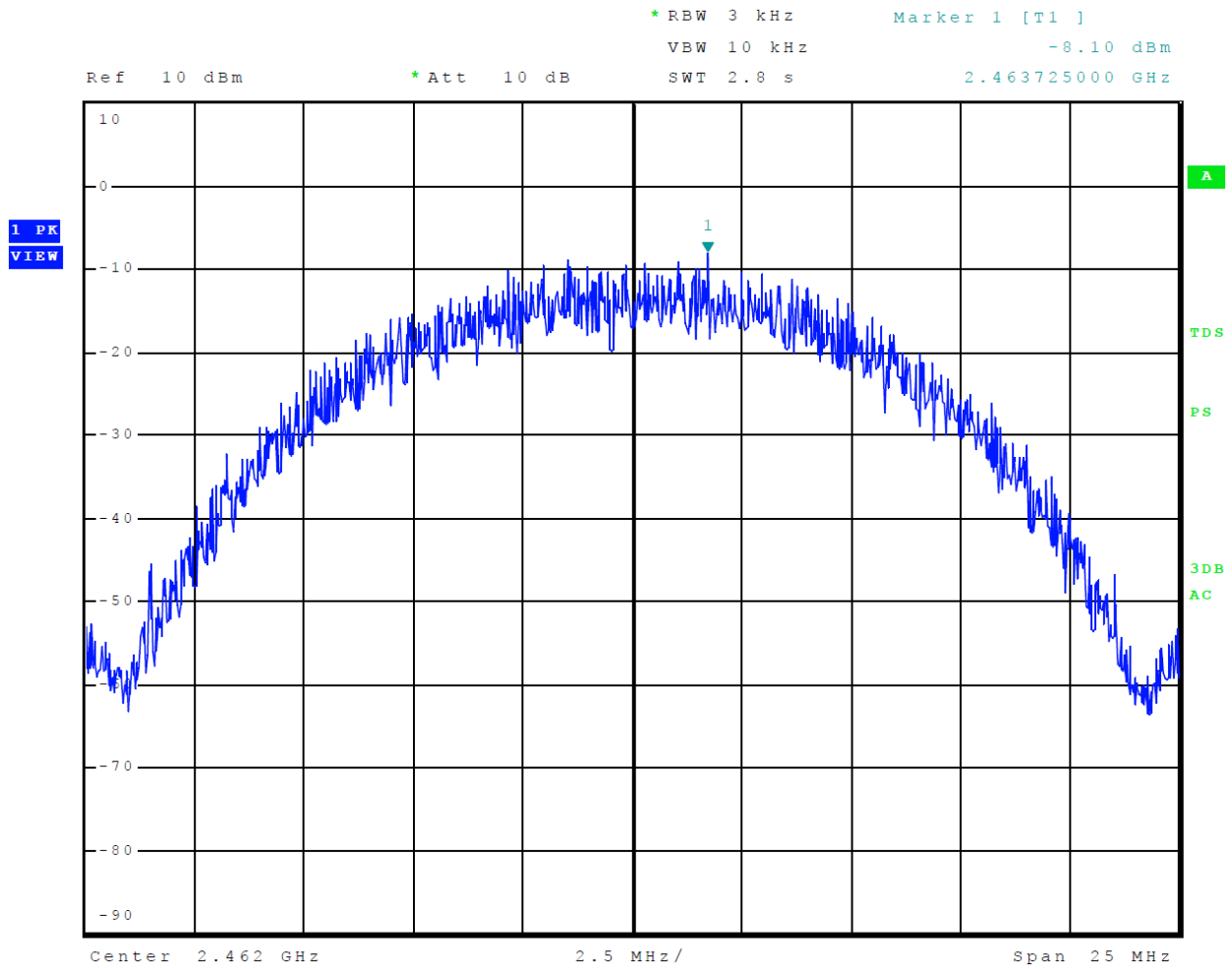
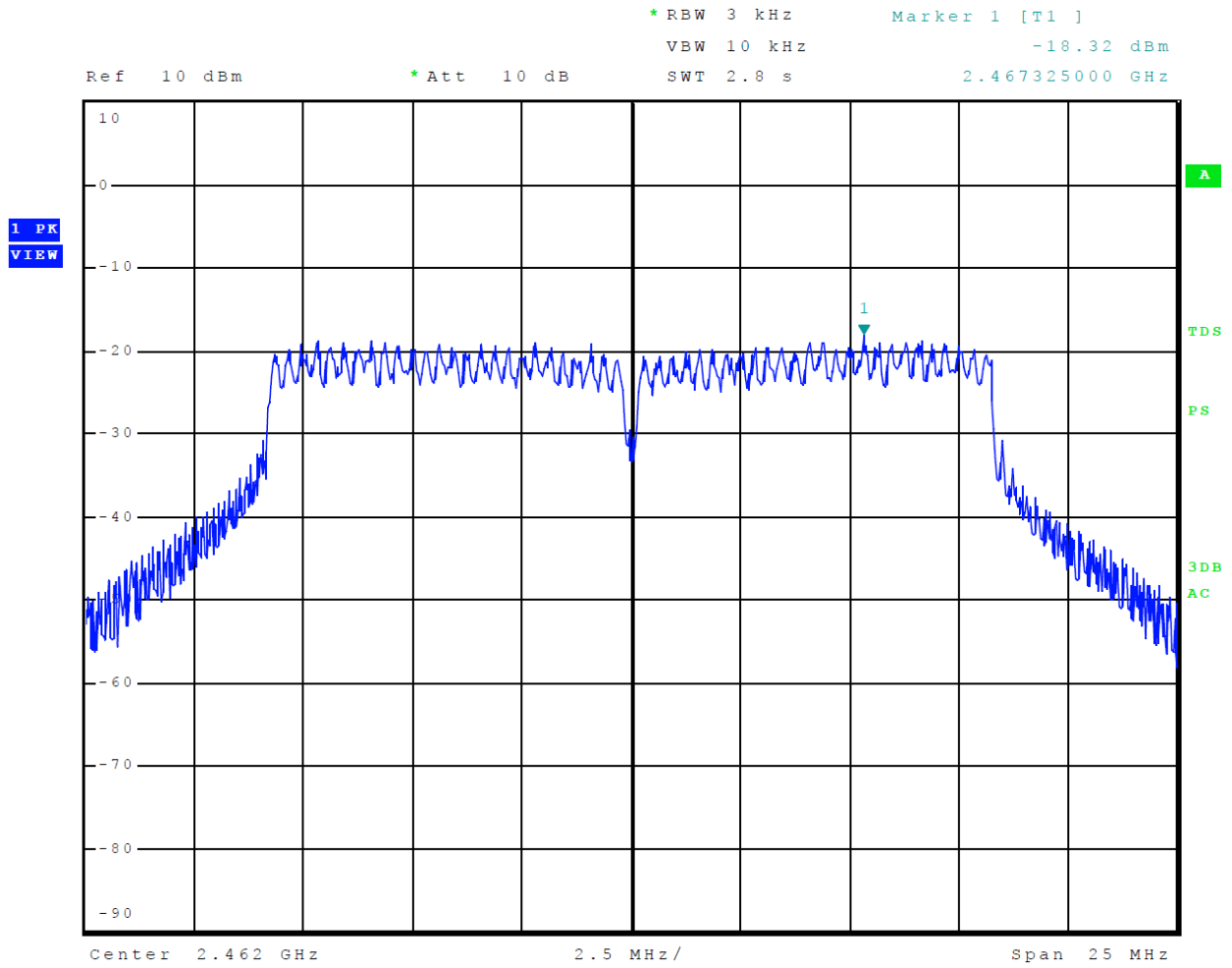


Figure 12 Plot of Transmitter Power Spectral Density Mode 2 802.11g



Transmitter Emissions Data

Table 4 Transmitter Radiated Emissions Mode 1 802.11b

Frequency in MHz	Horizontal Peak (dBµV/m)	Horizontal Average (dBµV/m)	Vertical Peak (dBµV/m)	Vertical Average (dBµV/m)	Limit @ 3m (dBµV/m)	Horizontal Margin (dB)	Vertical Margin (dB)
2412.0	--	--	--	--	--	--	--
4824.0	51.1	40.2	49.5	36.8	54.0	-13.8	-17.2
7236.0	53.0	40.3	53.9	40.4	54.0	-13.7	-13.6
9648.0	56.8	43.7	56.0	43.3	54.0	-10.3	-10.7
12060.0	59.3	46.6	59.1	46.4	54.0	-7.4	-7.6
14472.0	61.4	48.5	61.2	48.6	54.0	-5.5	-5.4
16884.0	64.6	51.8	64.9	52.0	54.0	-2.2	-2.0
2437.0	--	--	--	--	--	--	--
4874.0	49.6	36.8	49.6	36.6	54.0	-17.2	-17.4
7311.0	53.7	40.4	53.1	40.4	54.0	-13.6	-13.6
9748.0	56.2	43.4	56.8	43.5	54.0	-10.6	-10.5
12185.0	60.4	47.3	61.3	47.3	54.0	-6.7	-6.7
14622.0	63.0	49.2	62.4	49.2	54.0	-4.8	-4.8
17059.0	65.5	51.9	64.8	51.9	54.0	-2.1	-2.1
2462.0	--	--	--	--	--	--	--
4924.0	49.9	36.5	49.7	36.6	54.0	-17.5	-17.4
7386.0	53.6	40.5	54.0	40.4	54.0	-13.5	-13.6
9848.0	56.5	43.8	57.8	44.2	54.0	-10.2	-9.8
12310.0	59.7	46.9	60.5	47.5	54.0	-7.1	-6.5
14772.0	61.4	47.9	62.4	49.0	54.0	-6.1	-5.0
17234.0	63.3	50.9	62.9	49.9	54.0	-3.1	-4.1

Other emissions present had amplitudes at least 20 dB below the limit. Peak and Quasi-Peak amplitude emissions are recorded for frequency range below 1000 MHz. Peak and Average amplitude emissions are recorded for frequency range above 1000 MHz.

Table 5 Transmitter Radiated Emissions Mode 2 802.11g

Frequency in MHz	Horizontal Peak (dBµV/m)	Horizontal Average (dBµV/m)	Vertical Peak (dBµV/m)	Vertical Average (dBµV/m)	Limit @ 3m (dBµV/m)	Horizontal Margin (dB)	Vertical Margin (dB)
2412.0	--	--	--	--	--	--	--
4824.0	50.2	36.4	49.3	36.3	54.0	-17.6	-17.7
7236.0	53.0	40.2	52.7	40.1	54.0	-13.8	-13.9
9648.0	57.0	43.3	56.6	43.3	54.0	-10.7	-10.7
12060.0	59.9	46.6	59.6	46.7	54.0	-7.4	-7.3
14472.0	61.9	48.8	62.3	48.9	54.0	-5.2	-5.1
16884.0	65.1	52.1	65.6	52.2	54.0	-1.9	-1.8
2437.0	--	--	--	--	--	--	--
4874.0	49.7	36.6	50.2	36.4	54.0	-17.4	-17.6
7311.0	53.0	40.3	53.4	40.3	54.0	-13.7	-13.7
9748.0	56.1	43.4	56.0	43.3	54.0	-10.6	-10.7
12185.0	60.4	47.3	60.3	47.3	54.0	-6.7	-6.7
14622.0	62.1	49.2	62.4	49.2	54.0	-4.8	-4.8
17059.0	64.3	51.7	65.1	51.7	54.0	-2.3	-2.3
2462.0	--	--	--	--	--	--	--
4924.0	49.6	36.6	49.3	36.5	54.0	-17.4	-17.5
7386.0	53.9	40.3	53.2	40.4	54.0	-13.7	-13.6
9848.0	57.0	44.1	57.8	44.1	54.0	-9.9	-9.9
12310.0	59.9	47.5	60.4	47.6	54.0	-6.5	-6.4
14772.0	62.3	49.0	61.6	49.0	54.0	-5.0	-5.0
17234.0	64.3	51.4	64.8	51.4	54.0	-2.6	-2.6

Other emissions present had amplitudes at least 20 dB below the limit. Peak and Quasi-Peak amplitude emissions are recorded for frequency range below 1000 MHz. Peak and Average amplitude emissions are recorded for frequency range above 1000 MHz.

Table 6 Transmitter Antenna Port Conducted Data modes 1 and 2

Frequency MHz	Antenna Port Average Output Power (Watts)	99% Occupied Bandwidth (kHz)	6-dB Occupied Bandwidth (kHz)	Peak Power Spectral Density (dBm)
Mode 1 802.11b				
2412	0.025	14,580.0	8,750.0	-8.6
2437	0.026	14,550.0	8,717.9	-8.3
2462	0.029	14,550.0	8,750.0	-8.1
Mode 2 802.11g				
2412	0.008	17,120.0	16,538.5	-19.2
2437	0.008	17,120.0	16,538.5	-19.2
2462	0.009	17,120.0	16,538.5	-18.3

Summary of Results for Transmitter Radiated Emissions of Intentional Radiator

The EUT demonstrated compliance with the radiated and conducted emission requirements of 47CFR Subpart 15C Paragraph 15.247, RSS-247 Issue 2 and RSS-GEN Issue 5 emission requirements for Digital Transmission Systems. Highest average output power measured at the antenna port was 0.029 Watts. The highest peak power spectral density measured at the antenna port presented a minimum margin of -8.1 dB below the requirements. The EUT demonstrated a minimum margin of -1.8 dB below the harmonic emissions requirements. There were no other significantly measurable emissions in the restricted bands other than those recorded in this report. Other emissions were present with amplitudes at least 20 dB below the requirements. There were no other deviations or exceptions to the requirements.



Annex

- Annex A Measurement Uncertainty Calculations
- Annex B Test Equipment
- Annex C Rogers Qualifications
- Annex D Rogers Labs Certificate of Accreditation

Rogers Labs, Inc.
4405 West 259th Terrace
Louisburg, KS 66053
Phone/Fax: (913) 837-3214
Revision 1

Garmin International, Inc.
HVIN: A04326
Test: 211130
Test to: 47CFR 15C, RSS-Gen RSS-247
File: A04326 DTS TstRpt 211130

SN's: 3390035976, 7CA000030
FCC ID: IPH-04326
IC: 1792A-04326
Date: February 23, 2022
Page 37 of 42

Annex A Measurement Uncertainty Calculations

The measurement uncertainty was calculated for all measurements listed in this test report according To CISPR 16-4. Result of measurement uncertainty calculations are recorded below. Component and process variability of production devices similar to those tested may result in additional deviations. The manufacturer has the sole responsibility of continued compliance.

Measurement	Expanded Measurement Uncertainty $U_{(lab)}$
3 Meter Horizontal 0.009-1000 MHz Measurements	4.16
3 Meter Vertical 0.009-1000 MHz Measurements	4.33
3 Meter Measurements 1-18 GHz	5.14
3 Meter Measurements 18-40 GHz	5.16
10 Meter Horizontal Measurements 0.009-1000 MHz	4.15
10 Meter Vertical Measurements 0.009-1000 MHz	4.32
AC Line Conducted	1.75
Antenna Port Conducted power	1.17
Frequency Stability	1.00E-11
Temperature	1.6°C
Humidity	3%



Annex B Test Equipment

<u>Equipment</u>	<u>Manufacturer</u>	<u>Model (SN)</u>	<u>Band</u>	<u>Cal Date(m/d/y)</u>	<u>Due</u>
<input checked="" type="checkbox"/> LISN	FCC	FCC-LISN-50-25-10(1PA) (160611)	.15-30MHz	4/6/2021	4/6/2022
<input checked="" type="checkbox"/> LISN	Compliance Design	FCC-LISN-2.Mod.cd,(126)	.15-30MHz	10/14/2021	10/14/2022
<input checked="" type="checkbox"/> Cable	Huber & Suhner Inc.	Sucoflex102ea(L10M)(303073)	9kHz-40 GHz	10/14/2021	10/14/2022
<input type="checkbox"/> Cable	Huber & Suhner Inc.	Sucoflex102ea(1.5M)(303069)	9kHz-40 GHz	10/14/2021	10/14/2022
<input checked="" type="checkbox"/> Cable	Huber & Suhner Inc.	Sucoflex102ea(1.5M)(303070)	9kHz-40 GHz	10/14/2021	10/14/2022
<input checked="" type="checkbox"/> Cable	Belden	RG-58 (L1-CAT3-11509)	9kHz-30 MHz	10/14/2021	10/14/2022
<input checked="" type="checkbox"/> Cable	Belden	RG-58 (L2-CAT3-11509)	9kHz-30 MHz	10/14/2021	10/14/2022
<input checked="" type="checkbox"/> Antenna	Com Power	AL-130 (121055)	.001-30 MHz	10/14/2021	10/14/2022
<input type="checkbox"/> Antenna:	EMCO	6509	.001-30 MHz	10/14/2020	10/14/2022
<input type="checkbox"/> Antenna	ARA	BCD-235-B (169)	20-350MHz	10/14/2021	10/14/2022
<input type="checkbox"/> Antenna:	Schwarzbeck Model	VHBB 9124 (1468)		10/14/2020	10/14/2022
<input checked="" type="checkbox"/> Antenna	Sunol	JB-6 (A100709)	30-1000 MHz	10/14/2021	10/14/2022
<input type="checkbox"/> Antenna	ETS-Lindgren	3147 (40582)	200-1000MHz	10/14/2020	10/14/2022
<input type="checkbox"/> Antenna:	Schwarzbeck Model:	VULP 9118 A (VULP 9118 A-534)		10/14/2020	10/14/2022
<input checked="" type="checkbox"/> Antenna	ETS-Lindgren	3117 (200389)	1-18 GHz	4/21/2020	4/21/2022
<input type="checkbox"/> Antenna	Com Power	AH-118 (10110)	1-18 GHz	10/14/2020	10/14/2022
<input checked="" type="checkbox"/> Antenna	Com Power	AH-840 (101046)	18-40 GHz	4/6/2021	4/6/2023
<input checked="" type="checkbox"/> Analyzer	Rohde & Schwarz	ESU40 (100108)	20Hz-40GHz	5/20/2021	5/20/2022
<input checked="" type="checkbox"/> Analyzer	Rohde & Schwarz	ESW44 (101534)	20Hz-44GHz	1/12/2021	1/12/2022
<input type="checkbox"/> Analyzer	Rohde & Schwarz	FS-Z60, 90, 140, and 220	40GHz-220GHz	12/22/2017	12/22/2027
<input checked="" type="checkbox"/> Amplifier	Com-Power	PA-010 (171003)	100Hz-30MHz	10/14/2021	10/14/2022
<input checked="" type="checkbox"/> Amplifier	Com-Power	CPPA-102 (01254)	1-1000 MHz	10/14/2021	10/14/2022
<input checked="" type="checkbox"/> Amplifier	Com-Power	PAM-118A (551014)	0.5-18 GHz	10/14/2021	10/14/2022
<input checked="" type="checkbox"/> Amplifier	Com-Power	PAM-840A (461328)	18-40 GHz	10/14/2021	10/14/2022
<input type="checkbox"/> Power Meter	Agilent	N1911A with N1921A	0.05-40 GHz	4/6/2021	4/6/2022
<input type="checkbox"/> Generator	Rohde & Schwarz	SMB100A6 (100150)	20Hz-6 GHz	4/6/2021	4/6/2022
<input type="checkbox"/> Generator	Rohde & Schwarz	SMBV100A6 (260771)	20Hz-6 GHz	4/6/2021	4/6/2022
<input type="checkbox"/> RF Filter	Micro-Tronics	BRC50722 (009).9G notch	30-18000 MHz	4/6/2021	4/6/2022
<input type="checkbox"/> RF Filter	Micro-Tronics	HPM50114 (017)1.5G HPF	30-18000 MHz	4/6/2021	4/6/2022
<input type="checkbox"/> RF Filter	Micro-Tronics	HPM50117 (063) 3G HPF	30-18000 MHz	4/6/2021	4/6/2022
<input type="checkbox"/> RF Filter	Micro-Tronics	HPM50105 (059) 6G HPF	30-18000 MHz	4/6/2021	4/6/2022
<input type="checkbox"/> RF Filter	Micro-Tronics	BRM50702 (172) 2G notch	30-18000 MHz	4/6/2021	4/6/2022
<input type="checkbox"/> RF Filter	Micro-Tronics	BRC50703 (G102) 5G notch	30-18000 MHz	4/6/2021	4/6/2022
<input type="checkbox"/> RF Filter	Micro-Tronics	BRC50705 (024) 5G notch	30-18000 MHz	4/6/2021	4/6/2022
<input type="checkbox"/> Attenuator	Fairview	SA6NFN100W-40 (1625)	30-18000 MHz	4/6/2021	4/6/2022
<input type="checkbox"/> Attenuator	Mini-Circuits	VAT-3W2+ (1436)	30-6000 MHz	4/6/2021	4/6/2022
<input type="checkbox"/> Attenuator	Mini-Circuits	VAT-3W2+ (1445)	30-6000 MHz	4/6/2021	4/6/2022
<input type="checkbox"/> Attenuator	Mini-Circuits	VAT-3W2+ (1735)	30-6000 MHz	4/6/2021	4/6/2022
<input type="checkbox"/> Attenuator	Mini-Circuits	VAT-6W2+ (1438)	30-6000 MHz	4/6/2021	4/6/2022
<input type="checkbox"/> Attenuator	Mini-Circuits	VAT-6W2+ (1736)	30-6000 MHz	4/6/2021	4/6/2022
<input checked="" type="checkbox"/> Weather station	Davis	6312 (A81120N075)		11/4/2020	11/4/2021

Rogers Labs, Inc.
 4405 West 259th Terrace
 Louisburg, KS 66053
 Phone/Fax: (913) 837-3214
 Revision 1

Garmin International, Inc.
 HVIN: A04326
 Test: 211130
 Test to: 47CFR 15C, RSS-Gen RSS-247
 File: A04326 DTS TstRpt 211130

SN's: 3390035976, 7CA000030
 FCC ID: IPH-04326
 IC: 1792A-04326
 Date: February 23, 2022
 Page 39 of 42



List of Test Equipment

	Calibration	Date (m/d/y)	Due
<input type="checkbox"/> Antenna: Schwarzbeck Model VHBB 9124 (9124-627)		4/21/2020	4/21/2022
<input type="checkbox"/> Antenna: Schwarzbeck Model: VULP 9118 A (VULP 9118 A-534)		4/21/2020	4/21/2022
<input type="checkbox"/> Frequency Counter: Leader LDC-825 (8060153)		4/6/2021	4/6/2022
<input type="checkbox"/> LISN: Com-Power Model LI-220A		10/14/2020	10/14/2022
<input type="checkbox"/> LISN: Com-Power Model LI-550C		10/14/2020	10/14/2022
<input type="checkbox"/> ISN: Com-Power Model ISN T-8		4/6/2021	4/6/2022
<input type="checkbox"/> LISN: Fischer Custom Communications Model: FCC-LISN-50-16-2-08		4/6/2021	4/6/2022
<input type="checkbox"/> Cable Huber & Suhner Inc. Sucoflex102ea(1.5M)(303072) 9kHz-40 GHz		10/14/2021	10/14/2022
<input type="checkbox"/> Cable Huber & Suhner Inc. Sucoflex102ea(L1M)(281183) 9kHz-40 GHz		10/14/2021	10/14/2022
<input type="checkbox"/> Cable Huber & Suhner Inc. Sucoflex102ea(L4M)(281184) 9kHz-40 GHz		10/14/2021	10/14/2022
<input type="checkbox"/> Cable Huber & Suhner Inc. Sucoflex102ea(L10M)(317546)9kHz-40 GHz		10/14/2021	10/14/2022
<input type="checkbox"/> Cable Time Microwave 4M-750HF290-750 (4M) 9kHz-24 GHz		10/14/2021	10/14/2022
<input type="checkbox"/> RF Filter Micro-Tronics BRC17663 (001) 9.3-9.5 notch 30-1800 MHz		4/6/2021	4/6/2022
<input type="checkbox"/> RF Filter Micro-Tronics BRC19565 (001) 9.2-9.6 notch 30-1800 MHz		10/16/2018	4/6/2022
<input type="checkbox"/> Analyzer HP 8562A (3051A05950) 9kHz-125GHz		4/6/2021	4/6/2022
<input type="checkbox"/> Wave Form Generator Keysight 33512B (MY57400128)		4/21/2020	4/6/2022
<input type="checkbox"/> Antenna: Solar 9229-1 & 9230-1		2/22/2021	2/22/2022
<input type="checkbox"/> CDN: Com-Power Model CDN325E		10/14/2021	10/14/2022
<input type="checkbox"/> Injection Clamp Luthi Model EM101		10/14/2021	10/14/2022
<input type="checkbox"/> Oscilloscope Scope: Tektronix MDO 4104		2/22/2021	2/22/2022
<input type="checkbox"/> EMC Transient Generator HVT TR 3000		2/22/2021	2/22/2022
<input type="checkbox"/> AC Power Source (Ametech, California Instruments)		2/22/2021	2/22/2022
<input type="checkbox"/> Field Intensity Meter: EFM-018		2/22/2021	2/22/2022
<input type="checkbox"/> ESD Simulator: MZ-15		2/22/2021	2/22/2022
<input type="checkbox"/> R.F. Power Amp ACS 230-50W			not required
<input type="checkbox"/> R.F. Power Amp EIN Model: A301			not required
<input type="checkbox"/> R.F. Power Amp A.R. Model: 10W 1010M7			not required
<input type="checkbox"/> R.F. Power Amp A.R. Model: 50U1000			not required
<input type="checkbox"/> Tenney Temperature Chamber			not required
<input checked="" type="checkbox"/> Shielded Room			not required

Rogers Labs, Inc.
 4405 West 259th Terrace
 Louisburg, KS 66053
 Phone/Fax: (913) 837-3214
 Revision 1

Garmin International, Inc.
 HVIN: A04326
 Test: 211130
 Test to: 47CFR 15C, RSS-Gen RSS-247
 File: A04326 DTS TstRpt 211130

SN's: 3390035976, 7CA000030
 FCC ID: IPH-04326
 IC: 1792A-04326
 Date: February 23, 2022
 Page 40 of 42



Annex C Rogers Qualifications

Scot D. Rogers, Engineer

Rogers Labs, Inc.

Mr. Rogers has over 35 years’ experience in the field of electronics. Engineering experience includes six years in the automated controls industry and remaining years working with the design, development and testing of radio communications and electronic equipment.

Positions Held:

Systems Engineer: A/C Controls Mfg. Co., Inc.

Electrical Engineer: Rogers Consulting Labs, Inc.

Electrical Engineer: Rogers Labs, Inc. Current

Educational Background:

Bachelor of Science Degree in Electrical Engineering from Kansas State University

Bachelor of Science Degree in Business Administration Kansas State University

Several Specialized Training courses and seminars pertaining to Microprocessors and Software programming

Annex D Laboratory Certificate of Accreditation

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200087-0

Rogers Labs, Inc.
Louisburg, KS

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Electromagnetic Compatibility & Telecommunications

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2021-02-19 through 2022-03-31
Effective Dates



[Signature]
For the National Voluntary Laboratory Accreditation Program

Rogers Labs, Inc.
4405 West 259th Terrace
Louisburg, KS 66053
Phone/Fax: (913) 837-3214
Revision 1

Garmin International, Inc.
HVIN: A04326
Test: 211130
Test to: 47CFR 15C, RSS-Gen RSS-247
File: A04326 DTS TstRpt 211130

SN's: 3390035976, 7CA000030
FCC ID: IPH-04326
IC: 1792A-04326
Date: February 23, 2022
Page 42 of 42