



ROGERS LABS, INC.

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47CFR, PART 15C - Intentional Radiators
47CFR Paragraph 15.245 and
Industry Canada RSS-GEN Issue 5 and RSS-210 Issue 10
Application For Grant of Certification

Model / HVIN: MACH2

24.075-24.175 GHz Field disturbance sensors (FDS)

FCC ID: 2A6QA-MACH2FSS

IC: 28505-MACH2FSS

Foresight Sports

9955 Black Mountain Rd San Diego, CA 92126

FCC Designation: US5305 ISED Registration: 3041A

Test Report Number: 241017

Test Date: October 17, 2024 – November 26, 2024

Authorized Signatory: TDR-44

Patrick Powell

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Rogers Labs, a division of The Compatibility Center LLC 7915 Nieman Road FCC ID: 2A6QA-MACH2FSS

7915 Nieman Road FCC ID: 2A6QA-MACH2FSS Lenexa, KS 66214 Test: 241017 HVIN/P

Lenexa, KS 66214 Test: 241017 HVIN/PMN: MACH2 Phone/Fax: (913) 660-0666 Test to: CFR47 15.245, RSS-210

Revision 1 File: Foresight MACH2 FDS TstRpt 241017 r1

Foresight Sports IC: 28505-MACH2FSS

SN's: 0001, 0002 Date: February 17, 2025

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Revisions

Revision 1 Issued January 30, 2025

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Foreword

The following information is submitted for consideration in obtaining Grants of Certification for low power intentional radiator per 47CFR Paragraph 15.245, and Industry Canad Innovation, Science and Economic Development Canada (ISED) RSS-210 Issue 10, Annex F and RSS-GEN Issue 5, low power digital device transmitter operations in the 24.075-24.175 GHz frequency band.

Name of Applicant: Foresight Sports

9955 Black Mountain Rd San Diego, CA 92126

HVIN/PMN: MACH2

FCC ID: 2A6QA-MACH2FSS IC: 28505-MACH2FSS

Operating Frequency Range: 24.075-24.175 GHz

Frequency Band (GHz)	± • •		99% OBW (MHz)	
24.075 - 24.175	111.9	111.7	0.180	

Opinion / Interpretation of Results

Tests Performed	Margin (dB)	Results
Restricted Bands 47CFR 15.205, RSS-210 Issue 10	-40.7	Complies
AC Line Conducted 47CFR 15.207, RSS-GEN 8.8	N/A	Complies
Radiated Emissions 47CFR 15.209, RSS-GEN 8.9	-0.95	Complies
Harmonic Emissions per 47CFR 15.245, RSS-210 Issue 10	-40.7	Complies

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Equipment Tested

Model: MACH2

Foresight Sports 9955 Black Mountain Rd San Diego, CA 92126

<u>Equipment</u> <u>Model / PN</u> <u>Serial Number</u>

EUT #1 Radiated MACH2 0001

EUT #2 Antenna Port Conducted MACH2 0002

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

The design is capable of simultaneously transmitting BLE and 24GHz

Software (FVIN): 0.0.9 or higher; Antennas: 2.4 GHz inverted F PCB (1.443 dBi), 24 GHz array of resonant structures (18.65 dBi)

Equipment Operational Modes

Mode	Transmitter Operation				
1	BT BLE (GMSK)				
2	24.125GHz FDS				

Equipment Configuration

1) EUT operating off internal battery.

Unit under Test

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Equipment Function and Configuration

The MACH2 is a portable radar-based speed measuring device designed to typically measure baseball pitch speed. The design of the device incorporates a 24 GHz transceiver for radar, and transmitter circuitry operating in the 2402-2480 MHz range for wireless communication over a Bluetooth connection. The manufacturer provided test software for testing transmitter and equipment function. The software provided the ability to operate the transmitter at near 100% duty cycle for testing purposes. The testing mode of operation exceeds typical duty cycle operation of production equipment.

The EUT was arranged as described by the manufacturer emulating typical use configuration for testing purposes. The EUT receives power only from replaceable internal batteries. As requested by the manufacturer and required by regulations, the equipment was evaluated for compliance using the available configurations with the worst-case data presented. This report documents the performed testing and results for the applicable configuration and product operation. Test results in this report relate only to the products described in this report.

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Application for Certification

(1) Manufacturer: Foresight Sports

9955 Black Mountain Rd San Diego, CA 92126

(2) Identification: HVIN: MACH2

FCC ID: 2A6QA-MACH2FSS IC: 28505-MACH2FSS

(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 EUT receives power only from replaceable internal batteries. The EUT offers no other connection ports than those 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 this 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.

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Test Site Locations

Conducted EMI AC line conducted emissions testing performed in a shielded screen room

located at Rogers Labs, a division of The Compatibility Center LLC, 7915

Nieman Rd., Lenexa, KS (or satellite location).

Antenna port Antenna port conducted emissions testing was performed in a shielded

screen room located at Rogers Labs, a division of The Compatibility

Center LLC, 7915 Nieman Rd., Lenexa, KS (or satellite location).

Radiated EMI The radiated emissions tests were performed at the 3 meters Semi-

Anechoic Chamber (SAC) located at Rogers Labs, a division of The

Compatibility Center LLC, 7915 Nieman Rd., Lenexa, KS or at the 3

meters Outdoor Area Test Site (OATS) in the satellite location.

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

NVLAP Accreditation Lab code 200087-0

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Units of Measurements

Conducted EMI Data presented in dBµV; dB referenced to one microvolt

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

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

Note: The limit is expressed for a measurement in $dB\mu V/m$ 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 Semi-Anechoic Chamber 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)

Frequency: 9 kHz-30 MHz	Frequency: 30 MHz- 1 GHZ	Frequency: Above 1 GHz
Loop Antenna	Broadband Biconilog	Horn
RBW = 9 kHz	RBW = 120 kHz	RBW = 1 MHz
VBW = 30 kHz	VBW = 500 kHz	VBW = 3 MHz
Sweep time = Auto	Sweep time = Auto	Sweep time = Auto
Detector = PK, QP	Detector = PK, QP	Detector = PK, AV
Antenna Height 1m	Antenna Height 1-4m	Antenna Height 1-4m

Applicable Standards & Test Procedures

In accordance with the Title 47 of the Code of Federal Regulations (47CFR), dated November 18, 2024: Part 2, Subpart J, Paragraphs 2.907, 2.911, 2.913, 2.925, 2.926, 2.1031 through 2.1057, and applicable parts of paragraph 15, Part 15C Paragraph 15.245, Industry Canada RSS-210 Issue 10, Annex F, and RSS-GEN Issue 5 operation in the 24.075-24.175 GHz Frequency band. Test procedures used are the established Methods of Measurement of Radio-Noise Emissions as described in ANSI C63.10-2013.

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Testing Procedures

AC Line Conducted Emission Test Procedure

The EUT operates from battery power only. The design offers no provision for connection to the public utility power system and is therefore exempt from AC Line Conducted emissions testing.

Radiated Emission Test Procedure

Radiated emissions testing was performed as required in 47CFR 15C, RSS-210 Issue 10 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 40,000 MHz was searched for emissions during preliminary investigation. Refer to diagrams 2 and 3 showing typical test setup. Refer to photographs in the test setup.

Antenna Port Conducted Emission Test Procedure

The EUT was assembled as required for operation 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 presented in the regulations 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 4 showing typical test arrangement and photographs in the test setup exhibits for specific EUT placement during testing.

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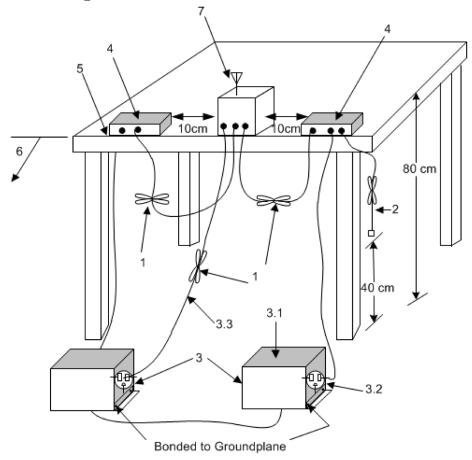
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Diagram 1 Test arrangement for Conducted Emissions



- 1—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 (see 6.2.3.2).
- 2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m (see 6.2.2).
- 3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane (see 6.2.2 and 6.2.3).
- 3.1—All other equipment powered from additional LISN(s).
- 3.2—A multiple outlet strip may be used for multiple power cords of non EUT equipment.
- 3.3—LISN at least 80 cm from nearest part of EUT chassis.
- 4—Non EUT components of EUT system being tested.
- 5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop (see 6.2.3.2).
- 6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane (see 6.2.2 for options).
- 7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

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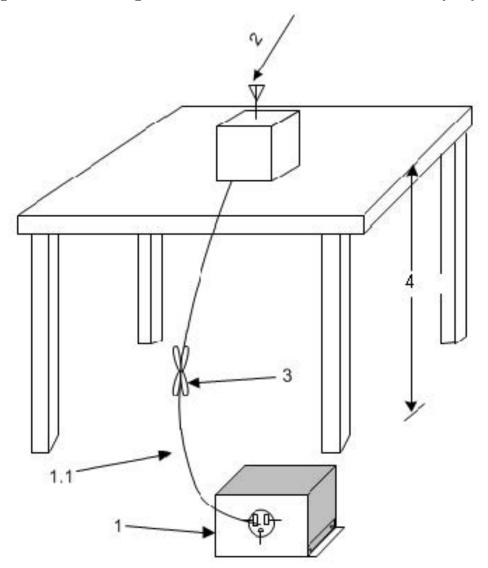
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Diagram 2 Test arrangement for radiated emissions of tabletop equipment.



- 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).

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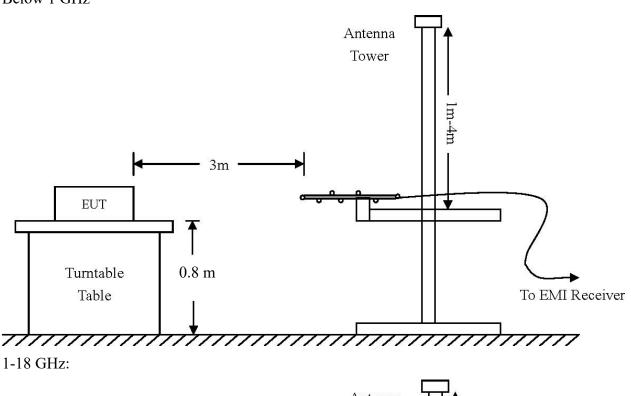
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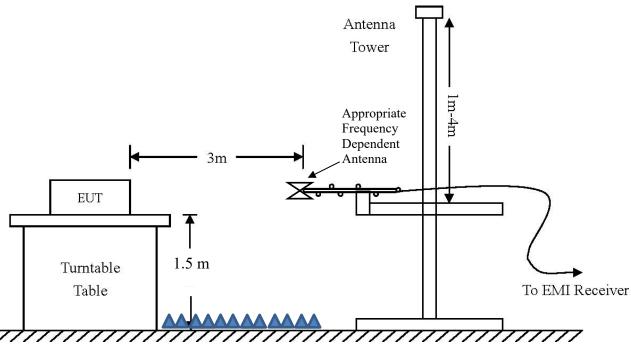
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Diagram 3 Test arrangement for radiated emissions tested in Semi-Anechoic Chamber (SAC) and Outdoor Area Test Site (OATS)

Below 1 GHz





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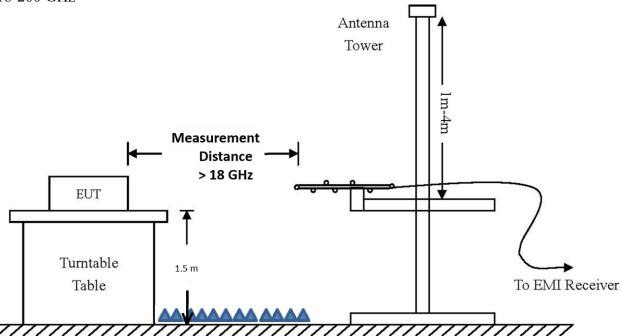
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18-200 GHz



Radiated Emissions Measurement Distance

The measurement antenna is in the far field of the EUT per formula $2D2/\gamma$, where D is the larger between the dimensions of the measurement antenna and the transmitting antenna of the EUT. In this case, "D" is the largest dimension of the measurement antenna. The EUT is manipulated through all orthogonal planes representative of its typical use and for both polarities of the measurement antenna to achieve the highest signal level. The worst-case position found was used for all radiated testing.

Table 1-1 Far-Field Distance & Measurement Distance per Frequency Range (Out-of-Band Testing)

Frequency Range [GHz]	Wavelength [centimeters]	Farfield Distance [meters]	Measurement Distance [meters]
18-40	0.750	0.65	1.00
40-57	0.526	0.99	1.00
71-90	0.333	0.71	1.00
90-140	0.214	0.54	1.00
240-200	0.150	0.32	1.00

Table 1-2 Far-Field Distance & Measurement Distance per Frequency Range (In-Band Testing)

Frequency Range [GHz]	Wavelength [centimeters]	Farfield Distance [meters]	Measurement Distance [meters]
24.025-24.175	0.422	0.60	3.00

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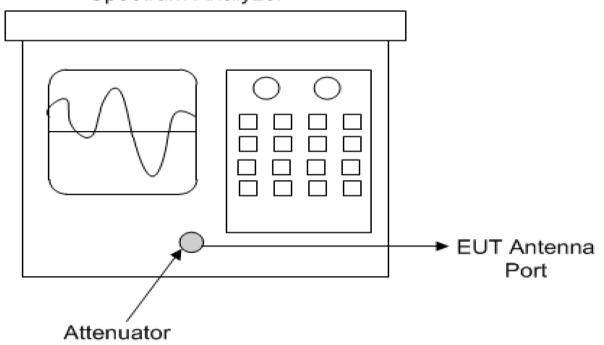
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Diagram 4 Test arrangement for Antenna Port Conducted emissions
Spectrum Analyzer



Environmental Conditions

Ambient Temperature 25.7° C

Relative Humidity 45.2 %

Atmospheric Pressure 1017.4 mb

Statement of Modifications and Deviations

No modifications to the EUT were required for the equipment to demonstrate compliance with the 47CFR Part 15C, 15.245, Industry Canada RSS-210 Issue 10, Annex F and RSS-GEN Issue 5 emission requirements. There were no deviations to the specifications.

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Intentional Radiators

The following information is submitted supporting compliance with the requirements of 47CFR, Subpart C, paragraph 15.245, Industry Canada RSS-210 Issue 10, and RSS-GEN Issue 5.

Antenna Requirements

The EUT incorporates an integral antenna system. Production equipment offers no provision 1 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 take into account the received radiated field strength, receive antenna correction factor, amplifier gain stage, and test system cable losses.

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Table 2 Radiated Emissions in Restricted Frequency Bands Data

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)
48,250.0	43.2	42.9	47.4	47.3	88.0	-45.1	-40.7
72,375.0	35.1	34.6	41.1	40.3	88.0	-53.4	-47.7
96,500.0	50.1	44.3	50.7	46.4	88.0	-43.7	-41.6

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.

Summary of Results for Radiated Emissions in Restricted Bands

The EUT demonstrated compliance with the radiated emissions requirements of 47CFR Part 15C and RSS-210 Issue 10 Intentional Radiator requirements. The EUT demonstrated a worst-case minimum margin of -40.7 dB below the emissions 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.

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AC Line Conducted EMI Procedure

The EUT operates from battery power only. The design offers no provision for connection to the public utility power system and is therefore exempt from AC Line Conducted emissions testing.

General Radiated Emissions Procedure

The EUT was arranged in typical equipment configurations and operated through available modes 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 at the OATS at a distance of 3 meters between the EUT and the receiving antenna. The frequency spectrum from 9 kHz to 100,000 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.

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Table 3 General Radiated Emissions Data – Worst Case (Horizontal Polarization)

Frequency (MHz)	Peak (dBμV/m)	Quasi-Peak (dBµV/m)	Limit @ 3m (dBµV/m)	Margin (dBm)
166.67	28.953	23.53	40	-16.47
249.98	40.457	37.68	47	-9.32
333.77	48.041	42.48	47	-4.52
417.47	32.722	25.38	47	-21.62
500.63	41.60	39.70	47	-7.30
834.38	40.919	34.76	47	-12.24

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 4 General Radiated Emissions Data – Worst Case (Vertical Polarization)

Frequency (MHz)	Peak (dBµV/m)	Quasi-Peak (dBµV/m)	Limit @ 3m (dBµV/m)	Margin (dBm)
249.98	42.465	40.29	47	-6.71
291.86	30.167	26.21	47	-20.79
333.77	48.404	46.05	47	-0.95
500.63	41.425	39.59	47	-7.41
750.95	29.656	22.36	47	-24.64
917.99	31.532	24	47	-23

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 Part 15C paragraph 15.209, RSS-210 Issue 10, and RSS-GEN Intentional Radiators. The EUT demonstrated a minimum margin of -0.95 dB below the requirements. Other emissions were present with amplitudes at least 20 dB below the Limits.

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Operation in the Band 24.075-24.175 GHz

The transmitter output power and emissions were measured in a Semi-Anechoic Chamber (SAC) @ 3 meters. The EUT was placed on a turntable elevated as required above the ground plane and at a distance of 3 meters from the FSM antenna. 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. The amplitude of each emission was then recorded from the analyzer display. Emissions radiated outside of the specified bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits, whichever is the lesser attenuation. The amplitude of each radiated emission was measured in the SAC at a distance of 3 meters from the FSM antenna testing was performed on sample representative of production with worst-case data provided. The amplitude of each radiated emission was maximized by equipment orientation and placement on the turn table, raising and lowering the FSM (Field Strength Measuring) antenna, changing the FSM antenna polarization, and by rotating the turntable. 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 40 GHz. Emissions were measured in dBµV/m @ 3 meters. External mixers were used to measure the harmonic emissions and these measurements were taken at a distance of 1m.

Refer to figures 3 through 5 showing plots taken of the 24.075-24.175 GHz transmitter operation.

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Figure 3 Plot of Transmitter Emissions Operation in 24.075-24.175 GHz

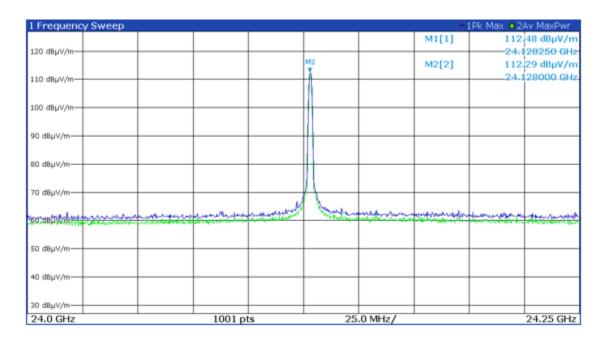
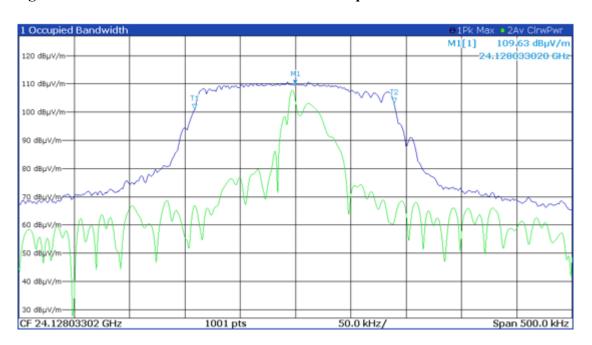


Figure 4 Plot of Transmitter Emissions 99% Occupied Bandwidth



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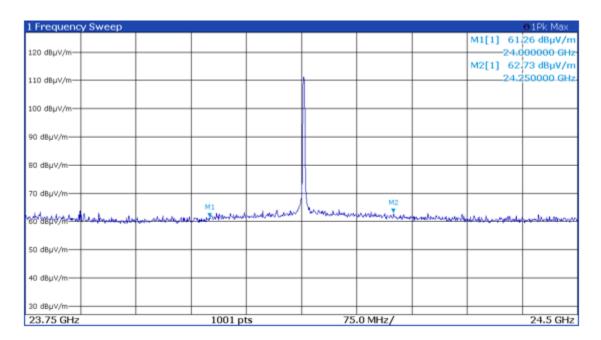
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Figure 5 Plot of Transmitter Emissions Out of Band



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Transmitter Emissions Data

Table 5 Transmitter Radiated Emissions

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)
24,125.0	95.3	95.2	111.9	111.7	128.0	-32.8	-16.3
48,250.0	43.2	42.9	47.4	47.3	88.0	-45.1	-40.7
72,375.0	35.1	34.6	41.1	40.3	88.0	-53.4	-47.7
96,500.0	50.1	44.3	50.7	46.4	88.0	-43.7	-41.6

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.

Summary of Results for Transmitter Radiated Emissions of Intentional Radiator

The EUT demonstrated compliance with the radiated emissions requirements of FCC 47CFR Part 15.245, Industry Canada RSS-210 Issue 10, and RSS-GEN Issue 5 Intentional Radiator regulations. The EUT worst-case test sample configuration demonstrated minimum average margin of -16.3 dB below the average emission limit for the fundamental. The EUT worst-case configuration demonstrated minimum radiated harmonic emission margin of -40.7 dB below the limit. No other radiated emissions were found in the restricted bands less than 20 dB below limits than those recorded in this report. Other emissions were present with amplitudes at least 20 dB below the limits.

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Annex

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

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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	5.46
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%

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Annex B Test Equipment

Equipment	<u>Manufacturer</u>	Model (SN)	Band Ca	al Date(m/d/y	Due		
⊠ LISN	FCC FCC-LI	SN-50-25-10(1PA) (160611)	.15-30MHz	3/25/2024	3/25/2025		
☐ LISN: Fischer Custom Communications Model: FCC-LISN-50-16-2-08 3/25/2024 3/25/2025							
⊠ Cable	Huber & Suhner Inc	. Sucoflex102ea(L10M)(3030	73)9kHz-40 GHz	9/16/2024	9/16/2025		
⊠ Cable	Huber & Suhner Inc	. Sucoflex102ea(1.5M)(30306	9)9kHz-40 GHz	9/16/2024	9/16/2025		
⊠ Cable	Huber & Suhner Inc	. Sucoflex102ea(1.5M)(30307	0)9kHz-40 GHz	9/16/2024	9/16/2025		
⊠ Cable	Belden	RG-58 (L1-CAT3-11509)	9kHz-30 MHz	9/16/2024	9/16/2025		
\square Cable	Belden	RG-58 (L2-CAT3-11509)	9kHz-30 MHz	9/16/2024	9/16/2025		
	Com Power	AL-130 (121055)	.001-30 MHz	9/16/2024	9/16/2025		
☐ Antenna:	EMCO	6509	.001-30 MHz	9/16/2024	9/16/2026		
	ARA	BCD-235-B (169)	20-350MHz	9/16/2024	9/16/2025		
	Sunol	JB-6 (A100709)	30-1000 MHz	9/16/2024	9/16/2025		
☐ Antenna	ETS-Lindgren	3147 (40582)	200-1000MHz	9/16/2024	9/16/2026		
	ETS-Lindgren	3117 (200389)	1-18 GHz	3/25/2024	3/25/2026		
	Com Power	AH-118 (10110)	1-18 GHz	9/16/2024	9/16/2026		
	Com Power	AH-1840 (101046)	18-40 GHz	3/27/2023	3/27/2025		
	Rohde & Schwarz	ESU40 (100108)	20Hz-40GHz	7/8/2024	7/8/2025		
	Rohde & Schwarz	ESW44 (101534)	20Hz-44GHz	1/26/2024	1/26/2025		
	Rohde & Schwarz	FS-Z60, 90, 140, and 220	40GHz-220GHz	12/22/2017	12/22/2027		
☐ Amplifier	Com-Power	PA-010 (171003)	100Hz-30MHz	9/16/2024	9/16/2025		
☐ Amplifier	Com-Power	CPPA-102 (01254)	1-1000 MHz	9/16/2024	9/16/2025		
	Com-Power	PAM-118A (551014)	0.5-18 GHz	9/16/2024	9/16/2025		
	Com-Power	PAM-840A (461328)	18-40 GHz	9/16/2024	9/16/2025		
	Rohde & Schwarz	NRP33T	0.05-33 GHz	9/26/2023	9/26/2025		
⊠ Power meter	r Agilent	N1911A with N1921A	0.05-40 GHz	3/25/2024	3/25/2025		
⊠ Generator	Rohde & Schwarz	SMB100A6 (100150)	20Hz-6 GHz	3/25/2024	3/25/2025		
⊠ Generator	Rohde & Schwarz	SMBV100A6 (260771)	20Hz-6 GHz	3/25/2024	3/25/2025		
☐ RF Filter	Micro-Tronics	BRC50722 (009).9G notch	30-18000 MHz	3/25/2024	3/25/2025		
☐ RF Filter	Micro-Tronics	HPM50114 (017)1.5G HPF	30-18000 MHz	3/25/2024	3/25/2025		
☐ RF Filter	Micro-Tronics	HPM50117 (063) 3G HPF	30-18000 MHz	3/25/2024	3/25/2025		
☐ RF Filter	Micro-Tronics	HPM50105 (059) 6G HPF	30-18000 MHz	3/25/2024	3/25/2025		
□ RF Filter	Micro-Tronics	BRM50702 (172) 2G notch	30-18000 MHz	3/25/2024	3/25/2025		
☐ RF Filter	Micro-Tronics	BRC50703 (G102) 5G notch	30-18000 MHz	3/25/2024	3/25/2025		
☐ RF Filter	Micro-Tronics	BRC50705 (024) 5G notch	30-18000 MHz	3/25/2024	3/25/2025		
☐ Attenuator	Fairview	SA6NFNF100W-40 (1625)	30-18000 MHz	3/25/2024	3/25/2025		
	Mini-Circuits	VAT-3W2+ (1436)	30-6000 MHz	3/25/2024	3/25/2025		
	Mini-Circuits	VAT-3W2+ (1445)	30-6000 MHz	3/25/2024	3/25/2025		
	Mini-Circuits	VAT-3W2+ (1735)	30-6000 MHz	3/25/2024	3/25/2025		
	Mini-Circuits	VAT-6W2+ (1438)	30-6000 MHz	3/25/2024	3/25/2025		
☐ Attenuator	Mini-Circuits	VAT-6W2+ (1736)	30-6000 MHz	3/25/2024	3/25/2025		

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<u>Equipment</u>	Manufacturer	Model (SN)	<u>Band</u>	Cal Date(m/d/y	<u>)</u> <u>Due</u>	
☐ Frequency Counter: Leader		LDC-825 (8060153)		3/28/2023	3/28/2025	
\square ISN	Com-Power	Model ISN T-8 (600111)		3/25/2024	3/25/2025	
\square LISN	Compliance Design	FCC-LISN-2.Mod.cd,(126)	.15-30MHz	9/16/2024	9/16/2025	
□ LISN:	Com-Power	Model LI-220A		9/16/2024	9/16/2026	
\square LISN:	Com-Power	Model LI-550C		9/16/2024	9/16/2025	
⊠ Cable	Huber & Suhner Inc	c. Sucoflex102ea(1.5M)(3030	72) 9kHz-40 G	Hz 9/16/2024	9/16/2025	
⊠ Cable	Huber & Suhner Inc	c. Sucoflex102ea(L1M)(28118	33) 9kHz-40 GI	Hz 9/16/2024	9/16/2025	
⊠ Cable	Huber & Suhner Inc	c. Sucoflex102ea(L4M)(28118	84) 9kHz-40 G	Hz 9/16/2024	9/16/2025	
⊠ Cable	Huber & Suhner Inc	c. Sucoflex102ea(L10M)(3175	546)9kHz-40 G	Hz 9/16/2024	9/16/2025	
⊠ Cable	Time Microwave	4M-750HF290-750 (L4M)	9kHz-24 GI	Hz 9/16/2024	9/16/2025	
⊠ Cable	Mini-Circuits	KBL-2M-LOW+ (23090329	9) 9kHz-40 GI	Hz 3/25/2024	3/25/2025	
☐ RF Filter	Micro-Tronics	BRC17663 (001) 9.3-9.5 no	tch 30-1800 M	Hz 3/28/2023	3/28/2025	
☐ RF Filter	Micro-Tronics	BRC19565 (001) 9.2-9.6 no	tch 30-1800 M	Hz 3/28/2023	3/28/2025	
⊠ Analyzer	HP	8562A (3051A05950)	9kHz-125GH	z 3/25/2024	3/25/2025	
☐ Wave Form Generator Keysight 33500B (MY57400128)				3/25/2024	3/25/2025	
☐ Antenna:	Solar	9229-1 & 9230-1		2/10/2024	2/10/2025	
□ CDN:	Com-Power	Model CDN325E		10/11/2022	10/11/2024	
☐ Oscilloscop	e Scope: Tektronix	MDO 4104		2/10/2024	2/10/2025	
☐ EMC Transient Generator HVT TR 3000		2/10/2024	2/10/2025			
☐ AC Power Source (Ametech, California Instruments)			2/10/2024	2/10/2025		
☑ Field Intensity Meter: EFM-018				2/10/2024	2/10/2025	
☐ ESD Simulator: MZ-15			2/10/2024	2/10/2025		
⊠ Weather sta	ation Davis	6152 (A70927D44N)		7/11/2024	7/11/2025	
☐ Injection Clamp Luthi Model EM101				not required	not required	
□ R.F. Power Amp ACS 230-50W				not required	not required	
□ R.F. Power Amp EIN Model: A301				not required	not required	
☐ R.F. Power Amp A.R. Model: 10W 1010M7				not required	not required	
□ R.F. Power Amp A.R. Model: 50U1000				not required	not required	
⊠ Temperature Chamber				not required	not required	
⊠ Shielded Room					not required	

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Annex C 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, a division of The Compatibility Center LLC

Lenexa, 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).

2024-03-18 through 2025-03-31

Effective Dates

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For the National Voluntary Laboratory Accreditation Program

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