

MEASUREMENT REPORT

FCC PART 15.247 / ISED RSS-247 WLAN 802.11b/g/n

Applicant Name:

Garmin International Inc.
 1200 E. 151st. Street
 Olathe, Kansas 66062
 United States

Date of Testing:

03/05/2026 - 06/12/2026

Test Report Issue Date:

6/30/2026

Test Site/Location:

Element Materials Technology, Morgan Hill, CA, USA

Test Report Serial No.:

1C2605260040-04.IPH

FCC ID:

IPH-05170

IC:

1792A-05170

APPLICANT:

Garmin International Inc.

Application Type:

Certification

Model/HVIN:

A05170

EUT Type:

Portable Digital Transceiver

Frequency Range:

2412 – 2472MHz

FCC Classification:

Digital Transmission System (DTS)

FCC Rule Part(s):

Part 15 Subpart C (15.247)

ISED Specification:

RSS-247 Issue 4

Test Procedure(s):

ANSI C63.10:2020 + Cor. 1:2023 + C63.10a:2024 + Errata to
 C63.10a:2024, KDB 558074 D01 v05r02,
 KDB 662911 D01 v02r01

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 and KDB 558074 D01 v05r02. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.



RJ Ortanez
 Executive Vice President



FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 1 of 91

V 11.0 5/2025

Revision Summary

Revision	Date	Comments	Revised By
-	6/30/2026	Initial release	WKR0000010305

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 2 of 91

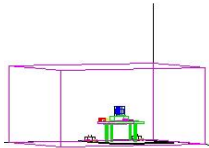
V 11.0 5/2025

TABLE OF CONTENTS

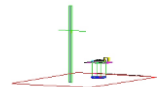
1.0	INTRODUCTION.....	5
1.1	Scope	5
1.2	Element Materials Technology Test Location.....	5
1.3	Test Facility / Accreditations	5
2.0	PRODUCT INFORMATION	6
2.1	Equipment Description	6
2.2	Device Capabilities	6
2.3	Antenna Description	8
2.4	Test Configuration	8
2.5	Software and Firmware	8
2.6	EMI Suppression Device(s)/Modifications	8
3.0	DESCRIPTION OF TESTS	9
3.1	Evaluation Procedure	9
3.2	AC Line Conducted Emissions	9
3.3	Radiated Emissions.....	10
3.4	Environmental Conditions.....	10
4.0	ANTENNA REQUIREMENTS	11
5.0	MEASUREMENT UNCERTAINTY.....	12
6.0	TEST EQUIPMENT CALIBRATION DATA.....	13
7.0	TEST RESULTS.....	14
7.1	Summary.....	14
7.2	99% OBW Measurement.....	15
7.3	6dB BW Measurement	23
7.4	Output Power Measurement.....	31
7.5	Power Spectral Density	34
7.6	Conducted Authorized Band Edge	41
7.7	Conducted Spurious Emissions.....	51
7.8	Radiated Spurious Emissions – Above 1 GHz	58
7.9	Radiated Spurious Emissions – Below 1GHz.....	83
7.10	AC Line-Conducted Emissions Measurement	87
8.0	CONCLUSION	91

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 3 of 91

V 11.0 5/2025



MEASUREMENT REPORT



Mode	Tx Frequency (MHz)	Ant1		
		Avg Conducted		Peak Conducted
		Max. Power (mW)	Max. Power (dBm)	Max. Power (dBm)
802.11b	2412 - 2472	26.977	14.31	16.41
802.11g	2412 - 2472	45.814	16.61	21.54
802.11n	2412 - 2472	38.815	15.89	21.40

EUT Overview

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 4 of 91

V 11.0 5/2025

1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2 Element Materials Technology Test Location

These measurement tests were conducted at the Element Materials Technology facility located at 18855 Adams Court, Morgan Hill, CA 95037. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

1.3 Test Facility / Accreditations

Measurements were performed at Element Materials Technology located in Morgan Hill, CA 95037, U.S.A.

- Element Materials Technology is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.02 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- Element Materials Technology facility is a registered (22831) test laboratory with the site description on file with ISED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 5 of 91

V 11.0 5/2025

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Garmin Portable Digital Transceiver FCC ID: IPH-05170, IC: 1792A-05170**. The test data contained in this report pertains only to the emissions due to the EUT's WLAN (DTS) transmitter.

Test Device Serial No.: 3631964819, 3631964791, 3628076631, 3628076626

2.2 Device Capabilities

This device contains the following capabilities:

Multi-band LTE (CAT-M1), Multi-band NTN, Bluetooth (1x, EDR, LE), ANT/ANT+, 802.11b/g/n WLAN, NFC

Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442		

Table 2-1. 802.11 Frequency/Channel Operations

Note: The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = peak per the guidance of Section 6.0 b) of KDB 558074 D01 v05r02 and ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Measured Duty Cycles			
802.11 Mode/Band		Duty Cycle [%]	DCCF [dB]
2.4GHz	b	100	-
	g	100	-
	n	100	-

Table 2-2. Measured Duty Cycles

The device supports the following data rates (shown in Mbps):

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 6 of 91

V 11.0 5/2025

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

802.11b	802.11g	802.11n			
20MHz	20MHz	MCS Index	Spatial Stream	20MHz	
		HT		0.8μs GI	0.4μs GI
1	6	0	1	6.5	7.2
2	9	1	1	13	14.4
5.5	12	2	1	19.5	21.7
11	18	3	1	26	28.9
-	24	4	1	39	43.3
-	36	5	1	52	57.8
-	48	6	1	58.5	65
-	54	7	1	65	72.2
-	-	8	2	13	14.4
-	-	9	2	26	28.9
-	-	10	2	39	43.3
-	-	11	2	52	57.8
-	-	12	2	78	86.7
-	-	13	2	104	115.6
-	-	14	2	117	130
-	-	15	2	130	144.4

Table 2-3. Supported Data Rates

This device supports simultaneous transmission operations, which allows multiple transmitters to transmit simultaneously on the same antenna. The table below shows all configurations possible.

Simultaneous Tx Config	Bluetooth 2.4GHz	WLAN	LTE / NTN		
	BDR, EDR, LE, ANT+	802.11 b/g/n	LB	MB/HB	UHB
Config 1	✓	✗	✗	✓	✗
Config 2	✓	✗	✓	✗	✗

Table 2-4. Simultaneous Transmission Configurations

✓ = Support; ✗ = Not Support

All the above simultaneous transmission configurations have been tested and the worst-case configuration was found to be Config 1 and reported in RF Part 27a test reports.

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 7 of 91

V 11.0 5/2025

2.3 Antenna Description

Following antenna gains provided by manufacturer were used for the testing.

Frequency [GHz]	Antenna Gain (dBi)
2.4	-7.6

Table 2-5. Highest Antenna Gain

2.4 Test Configuration

The EUT was tested per the guidance of ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 and KDB 558074 D01 v05r02. ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, Section 3.3 for radiated emissions test setups, 7.2 and 7.3, 7.4, 7.5, 7.6, and 7.7 for antenna port conducted emissions test setups.

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration. The emissions below 1GHz and above 18GHz were tested with the highest transmitting power and the worst case channel were reported.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

For AC line conducted and radiated test below 1GHz, following configuration were investigated and EUT powered by AC/DC was the worst case.

- EUT powered by AC/DC adaptor via USB-C cable with wire charger

The data rates have been categorized into three groups: low, middle, and high data rates (see Table 2-3). All three groups have been investigated, and only the worst-case data rate has been reported.

2.5 Software and Firmware

The test was conducted with firmware version 5.07 installed on the EUT.

2.6 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 8 of 91

V 11.0 5/2025

3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024) and the guidance provided in KDB 558074 D01 v05r02 were used in the measurement of the EUT.

Deviation from measurement procedure.....None

3.2 AC Line Conducted Emissions

The line-conducted facility is located inside a 7m x 3.66m x 2.7m shielded enclosure. The shielded enclosure is manufactured by AP Americas. The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-6. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. The external power line filter is EPCOS 2X60A Power Line Filter (100dB Attenuation, 14kHz-18GHz) and the two EPCOs 2X48A filters (100dB Minimum Insertion Loss, 14kHz - 10GHz). These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference groundplane. Power cables for support equipment were routed down to the second LISN while ensuring that the cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions is used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

Line conducted emissions test results are shown in Section 7.9. Automated test software was used to perform the AC line conducted emissions testing. Automated measurement software utilized is Rohde & Schwarz EMC32, Version 10.50.40.

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 9 of 91

V 11.0 5/2025

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

3.3 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. An 80cm tall test table made of Styrodur is placed on top of the turn table. For measurements above 1GHz, an additional Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

Per KDB 414788 D01 v01r01, radiated emission test sites other than open-field test sites (e.g., shielded anechoic chambers), may be employed for emission measurements below 30MHz if characterized so that the measurements correspond to those obtained at an open-field test site. To determine test site equivalency, a reference sample transmitting at 149kHz was measured on an open field test site (asphalt with no ground plane) and then measured in the 3m semi-anechoic chamber. A calibrated 60cm loop antenna was rotated about its vertical axis while the reference device was rotated through the X, Y and Z axis in order to capture the worst case level. A maximum deviation of 2.77dB at 149kHz was measured when comparing the 3 meter semi-anechoic chamber to the open field site.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33 depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

3.4 Environmental Conditions

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 10 of 91

V 11.0 5/2025

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

4.0 ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- The antennas of the EUT are **permanently attached**.
- There are no provisions for connections to an external antenna.

Conclusion:

The EUT unit complies with the requirement of §15.203.

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 11 of 91

V 11.0 5/2025

5.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.23-2012. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty ($\pm$ dB)
Conducted Bench Top Measurements	2.00
AC Line Conducted Disturbance	1.88
Radiated Disturbance (<30MHz)	4.24
Radiated Disturbance (30MHz - 1GHz)	4.96
Radiated Disturbance (1 - 18GHz)	5.18
Radiated Disturbance (>18GHz)	5.18

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 12 of 91

V 11.0 5/2025

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

6.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance with the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	N9020A	MXA Signal Analyzer	7/7/2025	Biennial	7/7/2027	MY56470202
Anritsu	ML2496A	Power Meter	4/6/2026	Annual	4/6/2027	1351001
Anritsu	MA2411B	Pulse Power Sensor	4/6/2026	Annual	4/6/2027	1315051
Anritsu	MA2411B	Pulse Power Sensor	7/3/2025	Annual	7/3/2026	1726261
ATM	180-442-KF	20dB Nominal Gain Horn Antenna	3/31/2026	Annual	3/31/2027	T058601-02
ETS-Lindgren	3117	Double Ridged Guide Horn (1-18 GHz)	4/21/2026	Annual	4/21/2027	218555
Fairview Microwave/MCL	FMCA1975-36/BW-K10-2W44+	30MHz-40GHz RF Cable/Attenuator *	6/10/2025	Annual	6/10/2026	-
Keysight Technology	N9040B	UXA Signal Analyzer	6/9/2025	Annual	6/9/2026	MY60080210
Rohde & Schwarz	TS-PR18	Pre-Amplifier (1GHz - 18GHz)	8/6/2025	Annual	8/6/2026	101639
Rohde & Schwarz	FSW43	Spectrum Analyzer 2Hz to 43GHz	8/5/2025	Annual	8/5/2026	104093
Rohde & Schwarz	ESW44	EMI Test Receiver 2Hz to 44 GHz	3/11/2026	Annual	3/11/2027	101716
Rohde & Schwarz	TS-PR8	Pre-Amplifier (30MHz - 8GHz)	10/14/2025	Annual	10/14/2026	102328
Rohde & Schwarz	TS-PR1840	Pre-Amplifier (18GHz - 40GHz)	7/3/2025	Annual	7/3/2026	100057
Rohde & Schwarz	HFH2-Z2	Loop Antenna	6/26/2025	Annual	6/26/2026	100519
Rohde & Schwarz	ENV216	Two-Line V-Network	8/18/2025	Annual	8/18/2026	101363
Schwarzbeck	VULB 9162	Bilog Antenna (30MHz - 6GHz)	7/17/2025	Annual	7/17/2026	00302

Table 6-1. Test Equipment List

Note:

- For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.
- * denotes passive equipment that have been internally verified/calibrated.

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 13 of 91

V 11.0 5/2025

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

7.0 TEST RESULTS

7.1 Summary

Company Name: Garmin International Inc.
 FCC ID: IPH-05170
 IC: 1792A-05170
 FCC Classification: Digital Transmission System (DTS)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	RSS-247 [6.3.1(a)]	6dB Bandwidth	> 500kHz	CONDUCTED	PASS	Section 7.3
2.1049	RSS-Gen [6.7]	Occupied Bandwidth	N/A		N/A	Section 7.3
15.247(b)(3)	RSS-247 [6.3.2]	Transmitter Output Power	< 1 Watt		PASS	Section 7.4
15.247(e)	RSS-247 [6.3.1(b)]	Transmitter Power Spectral Density	< 8dBm / 3kHz Band		PASS	Section 7.5
15.247(d)	RSS-247 [6.6]	Band Edge / Out-of-Band Emissions	≥ 20dBc		PASS	Section 7.6, 7.7
15.205 15.209	RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])	RADIATED	PASS	Sections 7.8, 7.9
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits (RSS-Gen [8.8])	AC LINE CONDUCTED	PASS	Section 7.10

Table 7-1. Summary of Test Results

Notes:

1. All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
2. The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
3. All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
4. For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Conducted Automation," Version 1.5.0
5. For radiated testing, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is Element "Chamber Automation," Version 3.6.1.

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 14 of 91

V 11.0 5/2025

7.2 99% OBW Measurement

§2.1049; RSS-Gen [6.7]

Test Overview and Limit

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Procedure Used

ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 – Subclause 11.8.2 Option 2
KDB 558074 D01 v05r02 – Section 8.2
RSS-Gen [6.7]

Test Settings

1. The signal analyzers' automatic bandwidth measurement capability of the spectrum analyzer was used to perform the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. Span = between 1.5x to 5x the OBW
3. RBW = in the range of 1- 5% of the OBW
4. VBW $\geq 3 \times$ RBW
5. Detector = Peak
6. Trace mode = max hold
7. Sweep = auto couple
8. The trace was allowed to stabilize
9. If necessary, step 2 – 7 were repeated after changing the RBW such that it would be within 1 -5% of the 99% occupied bandwidth observed in Step 7

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 15 of 91

V 11.0 5/2025

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

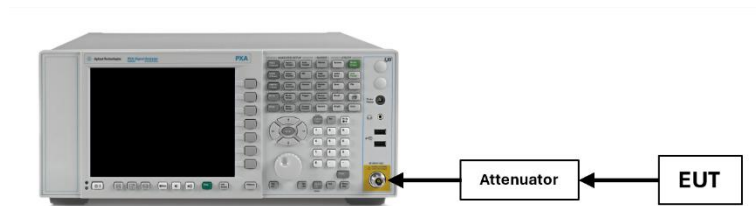


Figure 7-1. Test Instrument & Measurement Setup

Test Notes

1. All data rates and antenna configurations have been investigated, with tabular data reported for the worst-case data rate. Only the worst-case plot per mode was reported which corresponds to the narrowest 6dB bandwidth.

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 16 of 91

V 11.0 5/2025

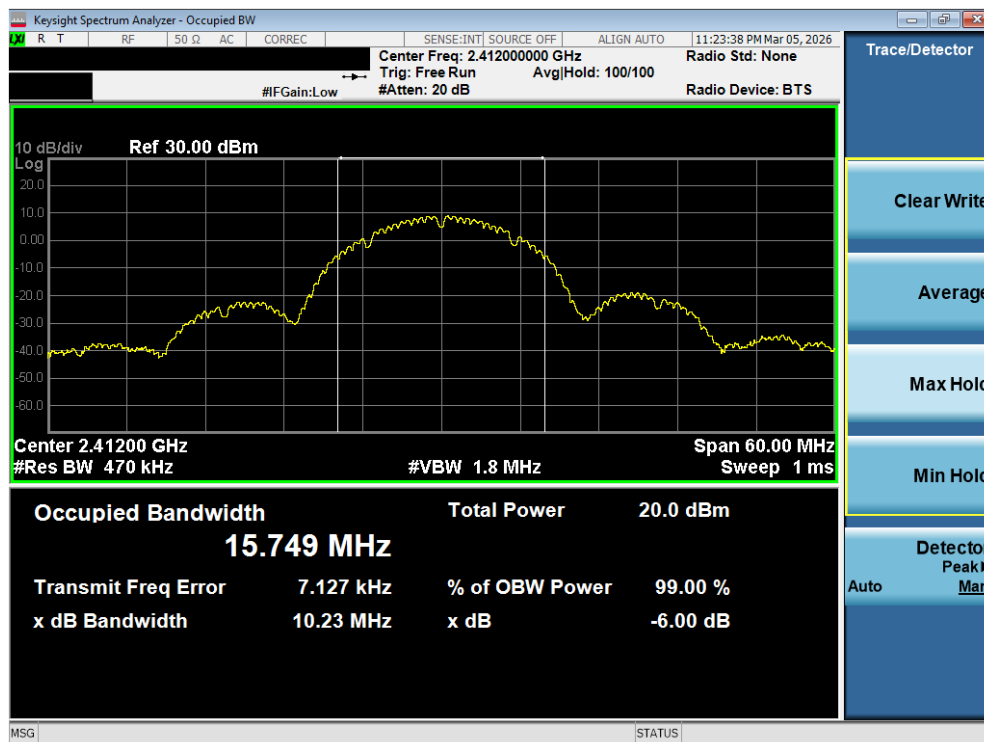
7.2.1 99% OBW Measurements

Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 99% Occupied Bandwidth [MHz]
2412	1	b	1Mbps	15.75
2437	6	b	1Mbps	15.80
2462	11	b	1Mbps	16.00
2412	1	g	6Mbps	17.52
2437	6	g	6Mbps	18.87
2462	11	g	6Mbps	17.60
2412	1	n	MCS0	18.20
2437	6	n	MCS0	18.32
2462	11	n	MCS0	18.29

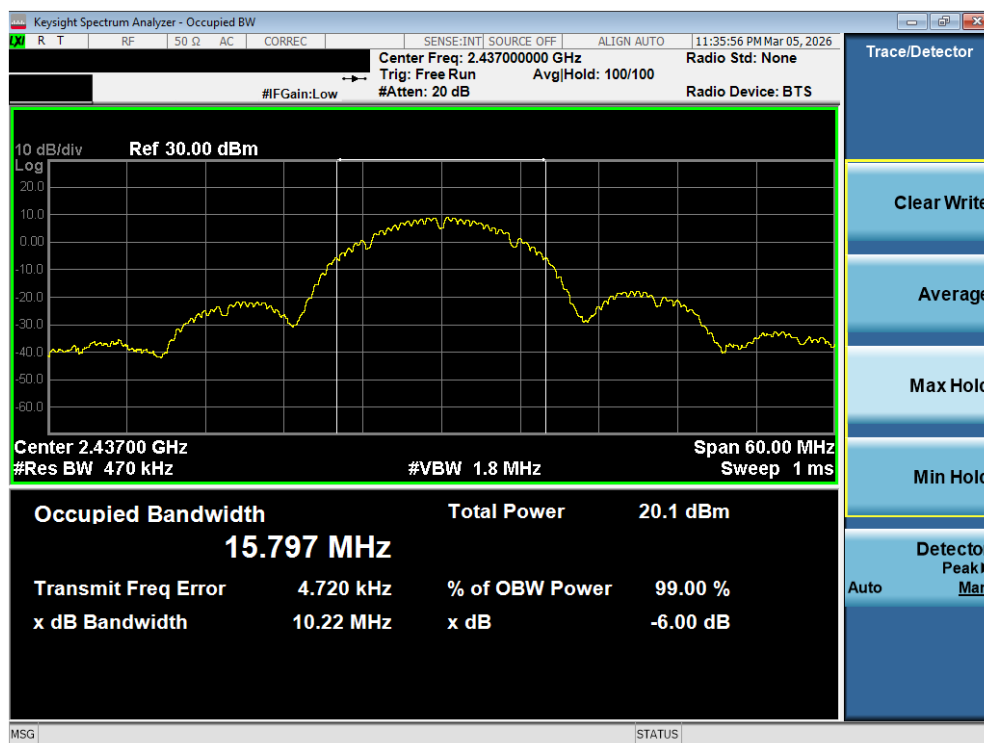
Table 7-2. Conducted Bandwidth Measurements

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 17 of 91

V 11.0 5/2025



Plot 7-1 99% OBW Plot (20MHz BW 802.11b - Ch.1)



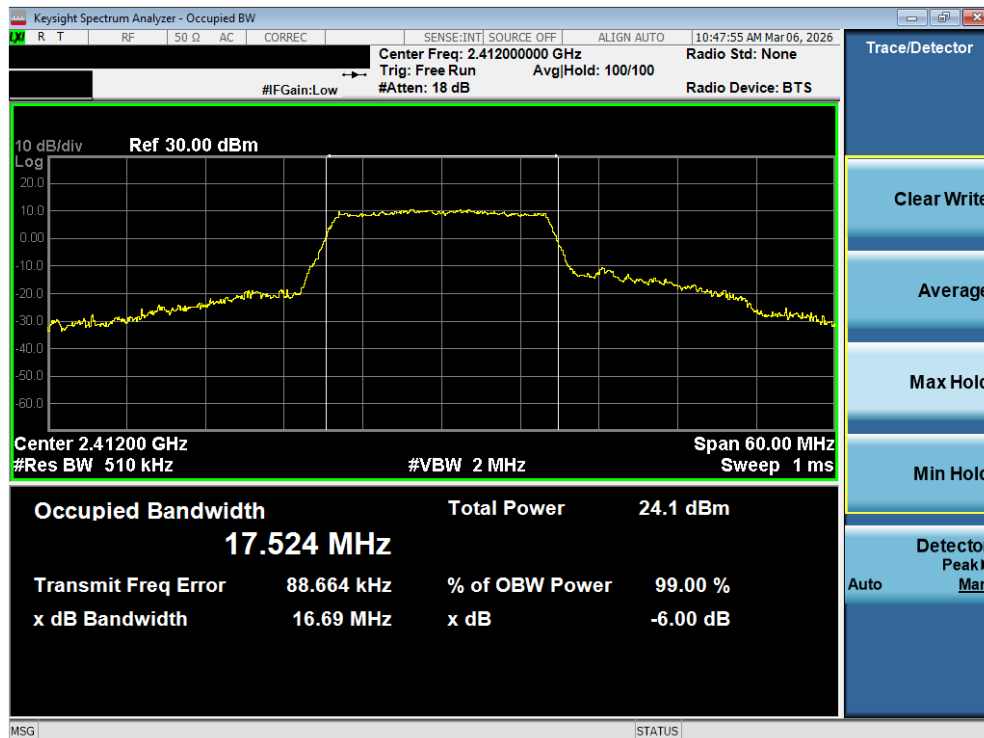
Plot 7-1 99% OBW Plot (20MHz BW 802.11b - Ch.6)

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 18 of 91

V 11.0 5/2025



Plot 7-2 99% OBW Plot (20MHz BW 802.11b - Ch.11)



Plot 7-3 99% OBW Plot (20MHz BW 802.11g - Ch.1)

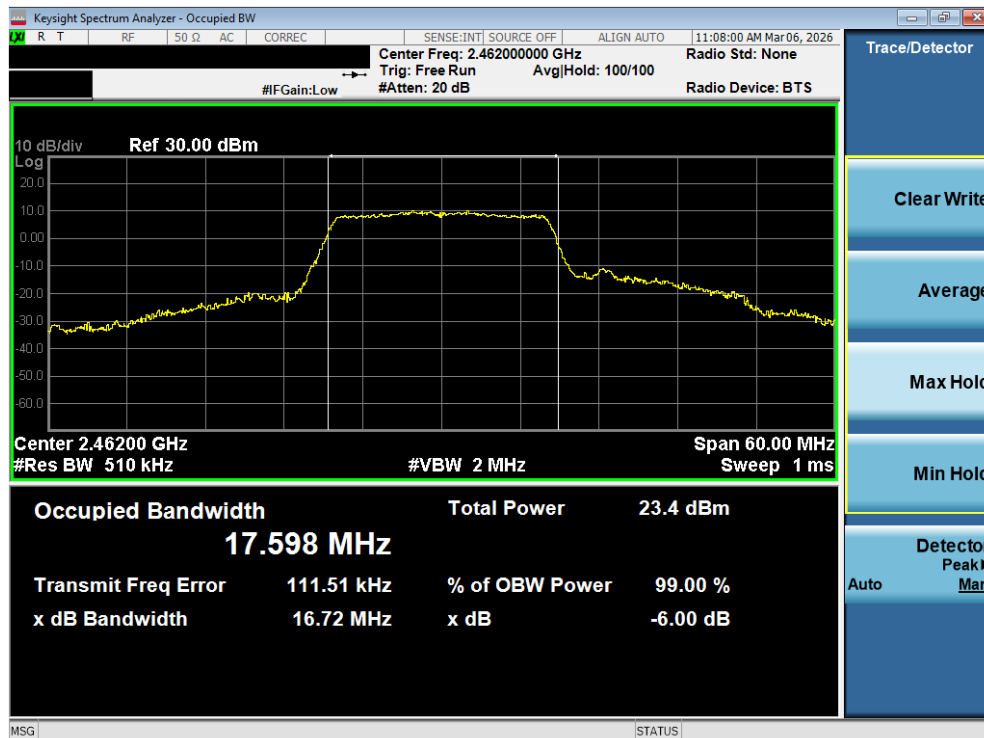
FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 19 of 91

V 11.0 5/2025

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-4 99% OBW Plot (20MHz BW 802.11g - Ch.6)

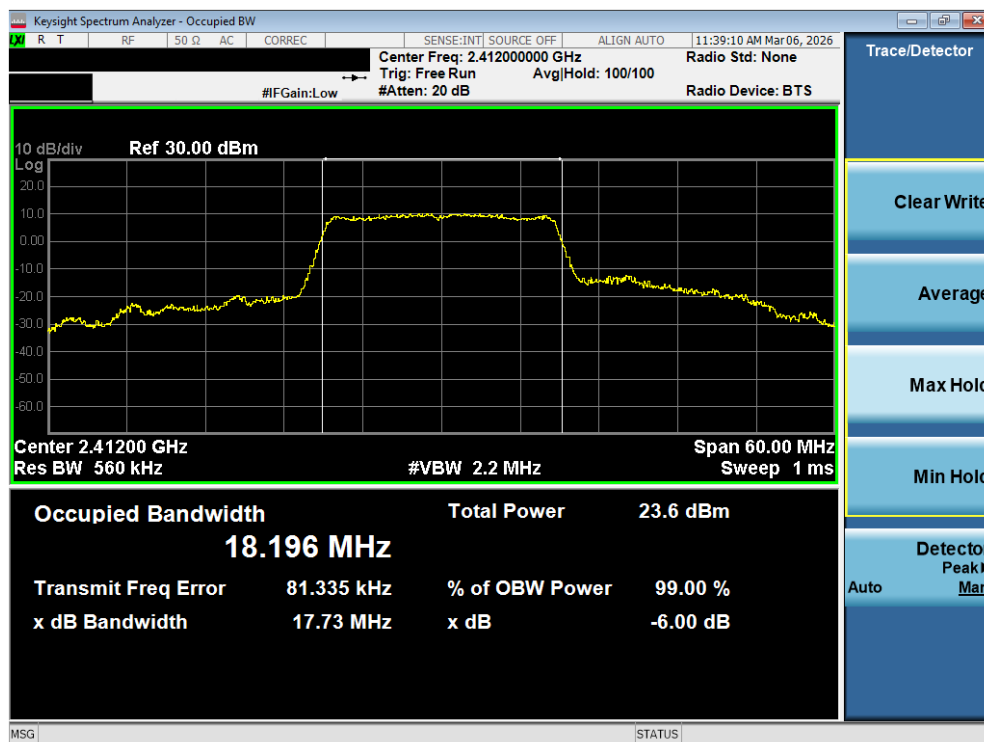


Plot 7-5 99% OBW Plot (20MHz BW 802.11g - Ch.11)

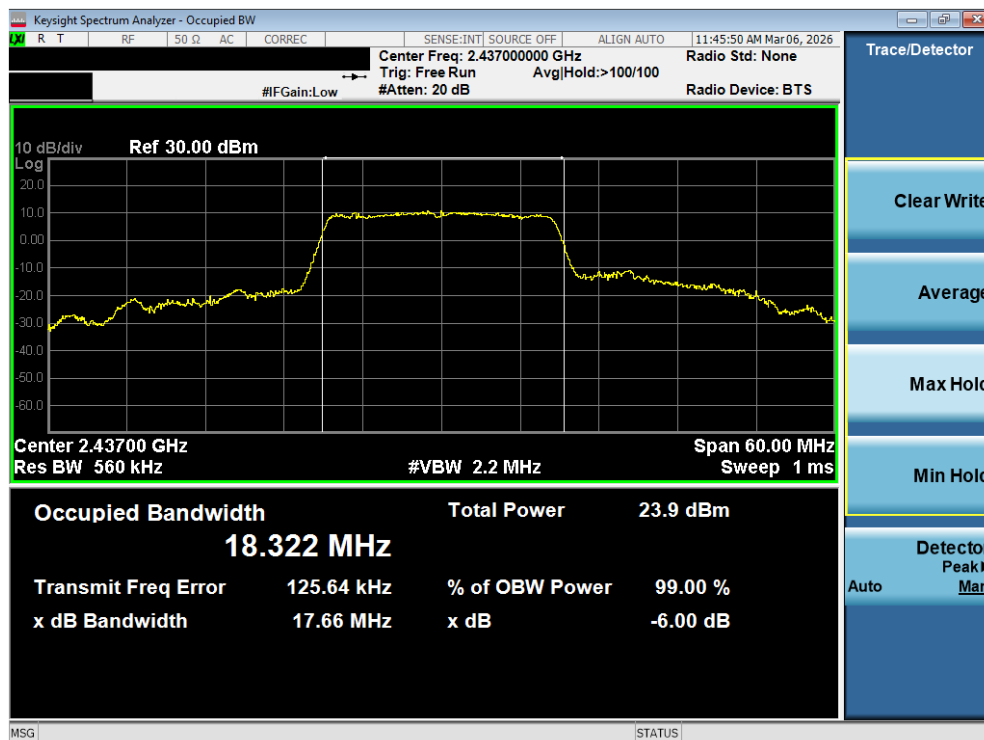
FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 20 of 91

V 11.0 5/2025

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



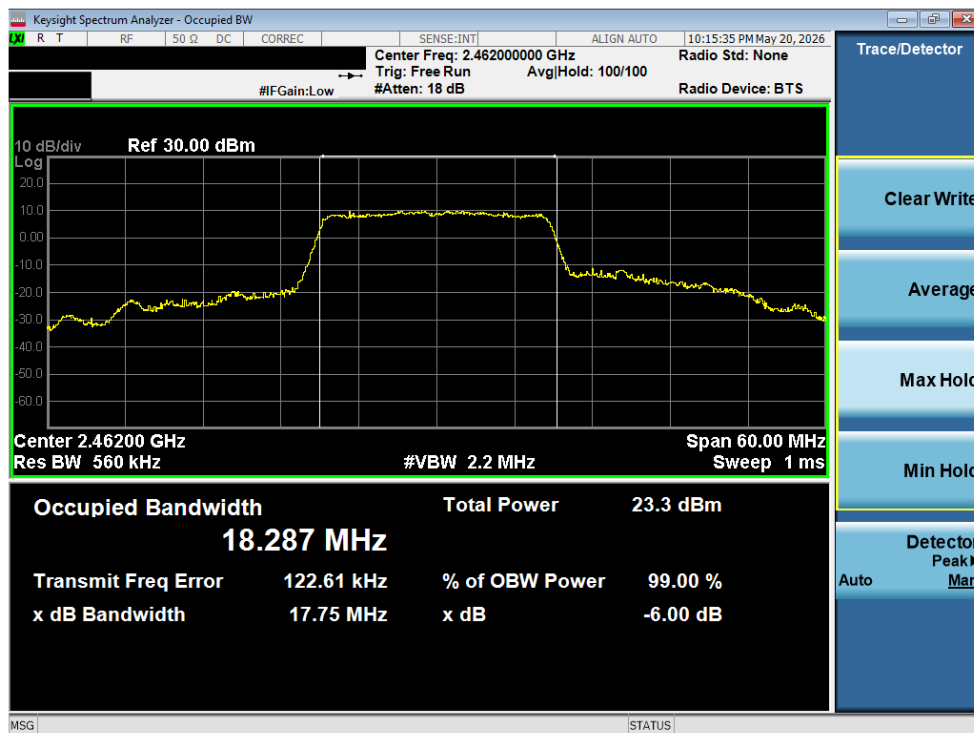
Plot 7-6 99% OBW Plot (20MHz BW 802.11n - Ch.1)



Plot 7-7 99% OBW Plot (20MHz BW 802.11n - Ch.6)

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 21 of 91

V 11.0 5/2025



Plot 7-8 99% OBW Plot (20MHz BW 802.11n - Ch.11)

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 22 of 91

V 11.0 5/2025

7.3 6dB BW Measurement

§15.247(a)(2); RSS-247 [6.3.1(a)]

Test Overview and Limit

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the transmitter antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated and the worst case configuration results are reported in this section.

The minimum permissible 6dB bandwidth is 500 kHz.

Test Procedure Used

ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 – Subclause 11.8.2 Option 2
KDB 558074 D01 v05r02 – Section 8.2

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability of the spectrum analyzer was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 6$. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 100kHz
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, step 2 – 7 were repeated after changing the RBW such that it would be within 1 -5% of the 99% occupied bandwidth observed in Step 7

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 23 of 91

V 11.0 5/2025

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

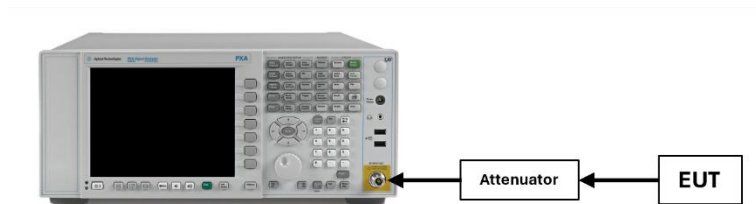


Figure 7-2. Test Instrument & Measurement Setup

Test Notes

1. All data rates and antenna configurations have been investigated, with tabular data reported for the worst-case data rate.

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 24 of 91

V 11.0 5/2025

7.3.1 6dB BW Measurements

Frequency [MHz]	Channel	802.11 MODE	Data Rate [Mbps]	Measured 6dB Bandwidth [MHz]	Minimum 6dB Bandwidth [MHz]	Pass/Fail
2412	1	b	1Mbps	10.09	0.50	Pass
2437	6	b	1Mbps	10.09	0.50	Pass
2462	11	b	1Mbps	10.08	0.50	Pass
2412	1	g	6Mbps	16.58	0.50	Pass
2437	6	g	6Mbps	16.61	0.50	Pass
2462	11	g	6Mbps	16.61	0.50	Pass
2412	1	n	MCS0	17.69	0.50	Pass
2437	6	n	MCS0	17.71	0.50	Pass
2462	11	n	MCS0	17.70	0.50	Pass

Table 7-3. Conducted Bandwidth Measurements

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 25 of 91

V 11.0 5/2025



Plot 7-9 6dB BW (20MHz BW 802.11b - Ch.1)

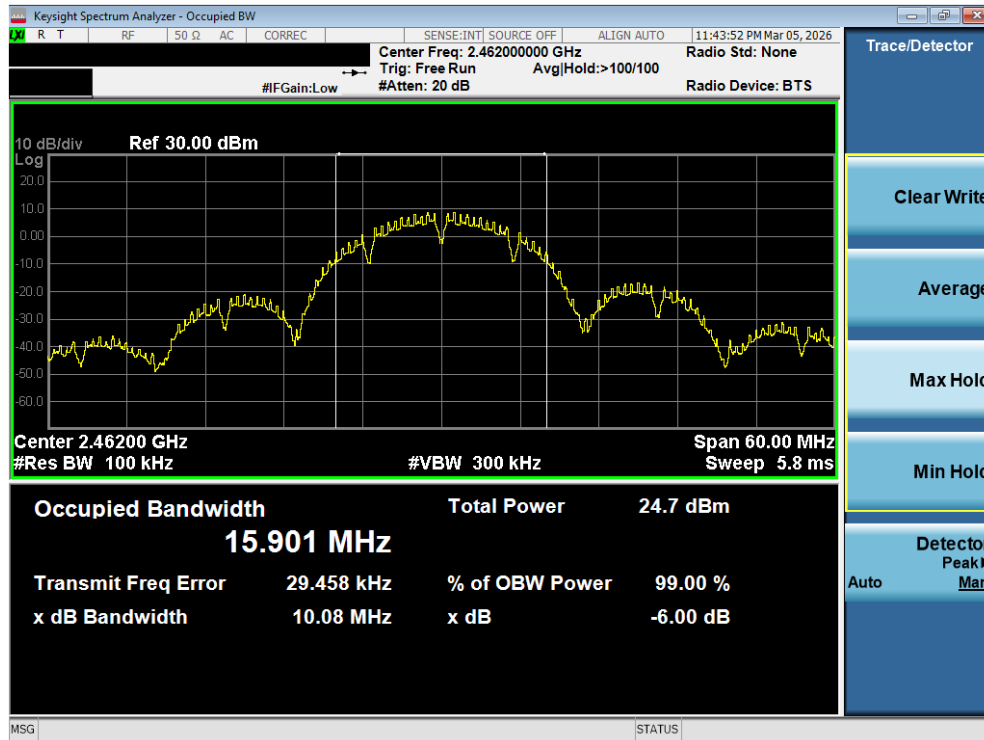


Plot 7-10 6dB BW (20MHz BW 802.11b - Ch.6)

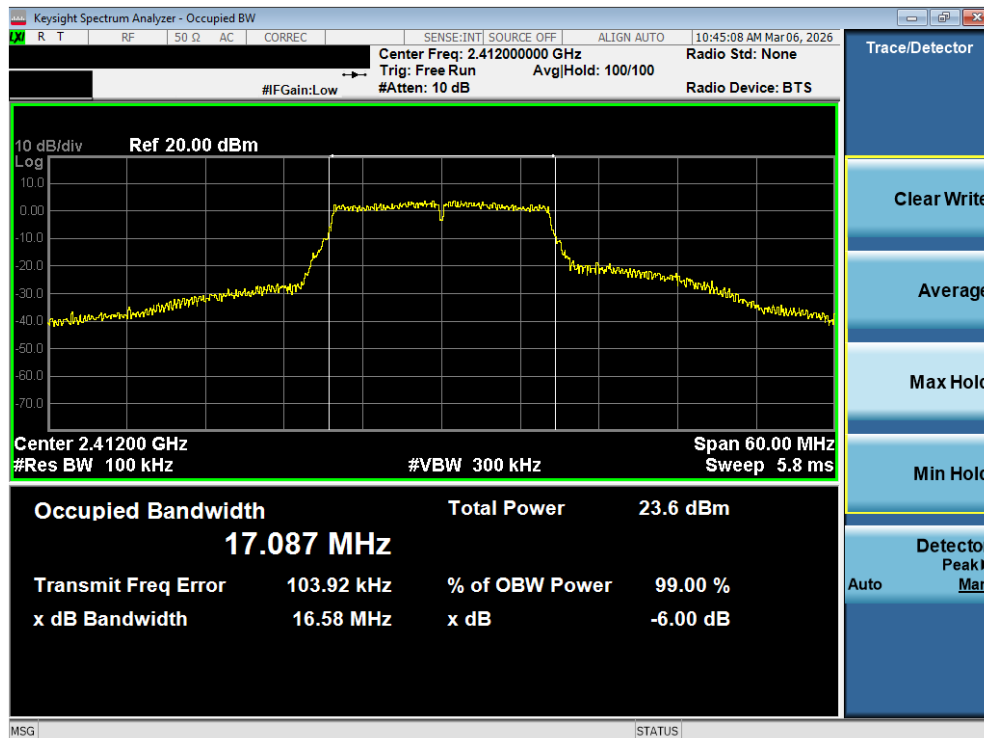
FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 26 of 91

V 11.0 5/2025

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

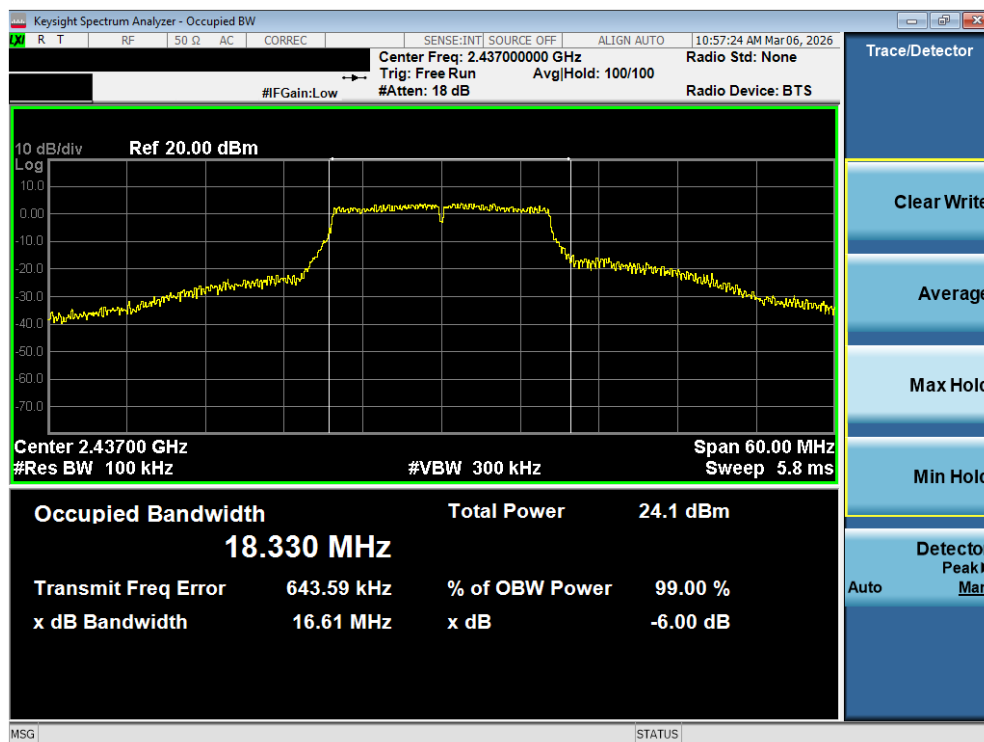


Plot 7-11 6dB BW (20MHz BW 802.11b - Ch.11)

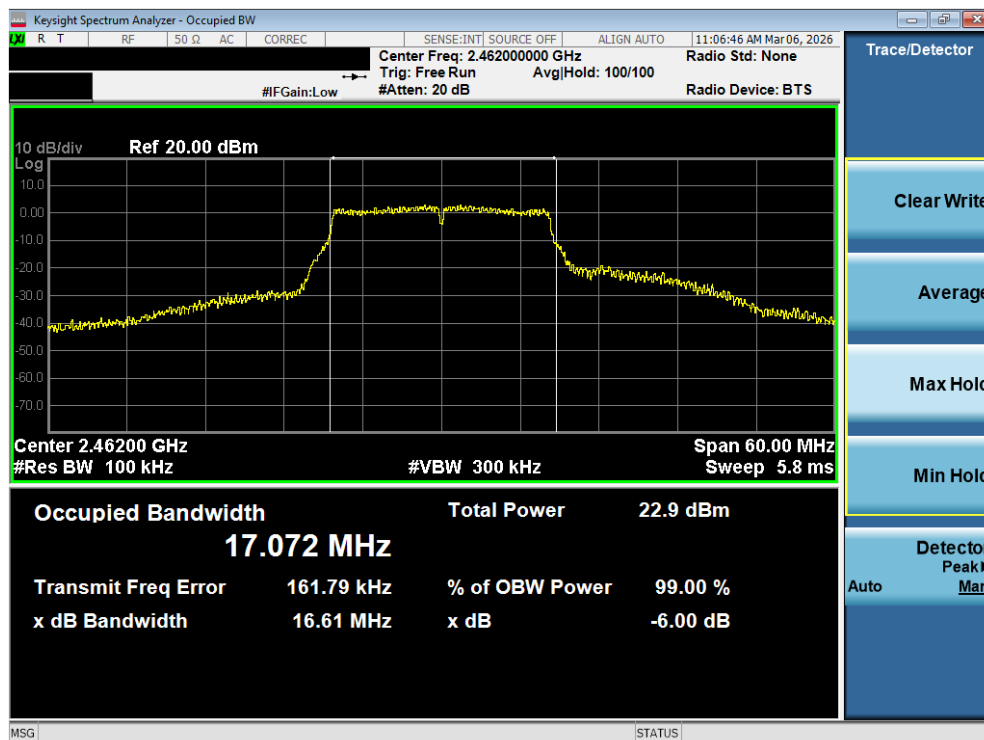


Plot 7-12 6dB BW (20MHz BW 802.11g - Ch.1)

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 27 of 91



Plot 7-13 6dB BW (20MHz BW 802.11g - Ch.6)

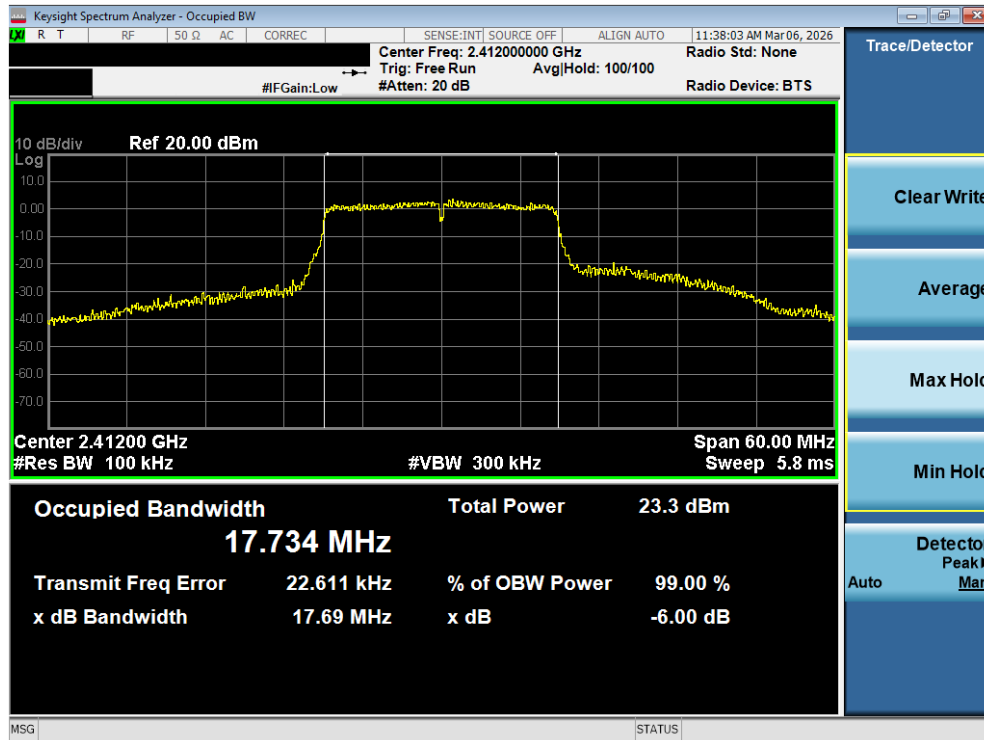


Plot 7-14 6dB BW (20MHz BW 802.11g - Ch.11)

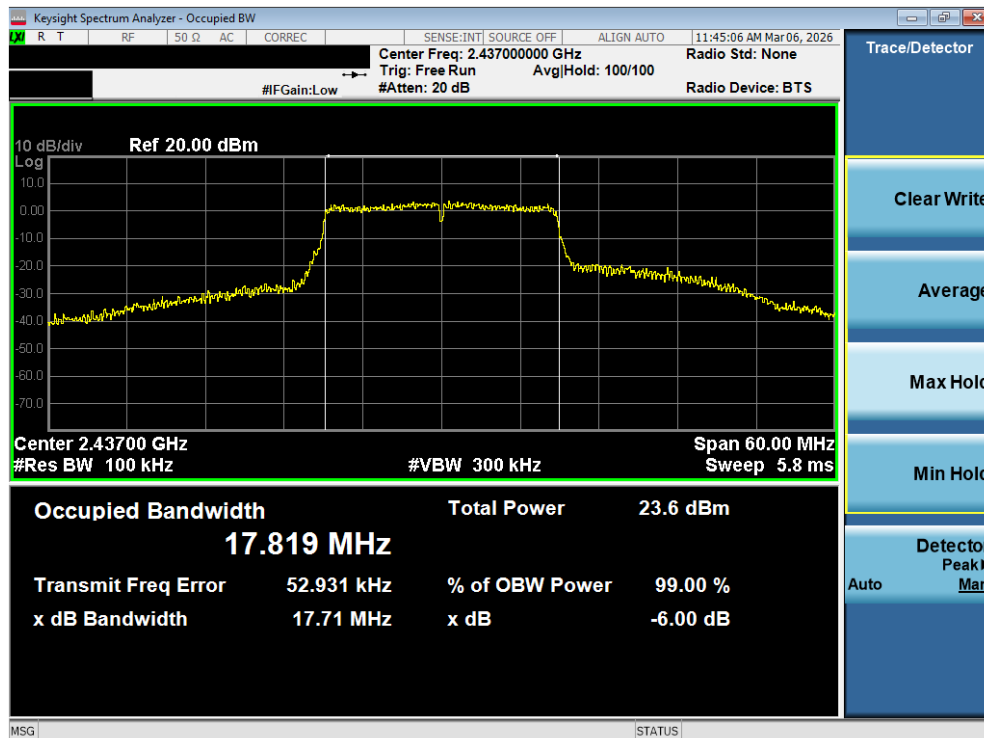
FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 28 of 91

V 11.0 5/2025

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.

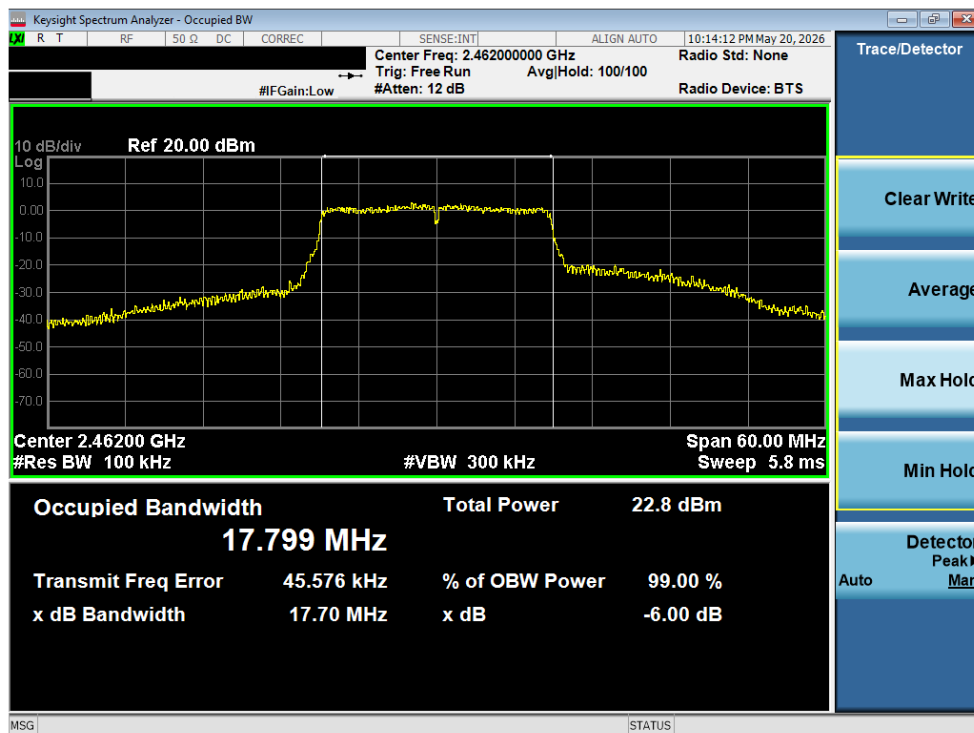


Plot 7-15 6dB BW (20MHz BW 802.11n - Ch.1)



Plot 7-16 6dB BW (20MHz BW 802.11n - Ch.6)

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 29 of 91



Plot 7-17 6dB BW (20MHz BW 802.11n - Ch.11)

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 30 of 91

V 11.0 5/2025

7.4 Output Power Measurement

§15.247(b)(3); RSS-247 [6.3.2]

Test Overview and Limits

A transmitter antenna terminal of EUT is connected to the input of an RF power sensor. Measurement is made using a broadband power meter capable of making average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

The average conducted output power of digital modulation systems operating in the 2400-2483.5 MHz band is 1 Watt. The conducted output power limit on paragraph above is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For DTSs employing digital modulation techniques operating in the band 2400-2483.5 MHz, the average conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W.

Test Procedure Used

ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 – Subclause 11.9.2.3.2 Method AVGPM-G KDB 558074 D01 v05r02 – Section 8.3.2.3 Measurement using a Power Meter (PM)

Test Settings

Method AVGPM-G (Average Power Measurement)

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

Test Setup

The EUT and measurement equipment were set up as shown in the diagrams below.



Figure 7-3. Test Instrument & Measurement Setup for Power Meter Measurements

Test Notes

1. All data rates have been investigated, and tabular data has been reported for the worst-case data rate.

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 31 of 91

V 11.0 5/2025

7.4.1 Output Power Measurement and Max EIRP Measurement

§15.247(b.3); RSS-247 [5.4]

Channel	Detector	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
1	AVG	13.66	30.00	-16.34	-7.60	6.06	36.02	-29.96
6	AVG	14.31	30.00	-15.69	-7.60	6.71	36.02	-29.31
11	AVG	14.07	30.00	-15.93	-7.60	6.47	36.02	-29.55
12	AVG	13.86	30.00	-16.14	-7.60	6.26	36.02	-29.76
13	AVG	14.05	30.00	-15.95	-7.60	6.45	36.02	-29.57

Table 7-4. Average Conducted Output Power and Max EIRP Measurements (802.11b)

Freq [MHz]	Channel	Detector	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
2412	1	AVG	15.71	30.00	-14.29	-7.60	8.11	36.02	-27.91
2417	2	AVG	15.74	30.00	-14.26	-7.60	8.14	36.02	-27.88
2437	6	AVG	16.61	30.00	-13.39	-7.60	9.01	36.02	-27.01
2457	10	AVG	15.57	30.00	-14.43	-7.60	7.97	36.02	-28.05
2462	11	AVG	15.61	30.00	-14.39	-7.60	8.01	36.02	-28.01
2467	12	AVG	11.46	30.00	-18.54	-7.60	3.86	36.02	-32.16
2472	13	AVG	11.38	30.00	-18.62	-7.60	3.78	36.02	-32.24

Table 7-5. Average Conducted Output Power and Max EIRP Measurements (802.11g)

Freq [MHz]	Channel	Detector	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
2412	1	AVG	15.28	30.00	-14.72	-7.60	7.68	36.02	-28.34
2417	2	AVG	15.43	30.00	-14.57	-7.60	7.83	36.02	-28.19
2437	6	AVG	15.85	30.00	-14.15	-7.60	8.25	36.02	-27.77
2457	10	AVG	15.39	30.00	-14.61	-7.60	7.79	36.02	-28.23
2462	11	AVG	15.89	30.00	-14.11	-7.60	8.29	36.02	-27.73
2467	12	AVG	13.99	30.00	-16.01	-7.60	6.39	36.02	-29.63
2472	13	AVG	13.86	30.00	-16.14	-7.60	6.26	36.02	-29.76

Table 7-6. Average Conducted Output Power and Max EIRP Measurements (802.11n)

Freq [MHz]	Channel	Detector	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
2412	1	PEAK	15.67	30.00	-14.33	-7.60	8.07	36.02	-27.95
2437	6	PEAK	16.41	30.00	-13.59	-7.60	8.81	36.02	-27.21
2462	11	PEAK	16.07	30.00	-13.93	-7.60	8.47	36.02	-27.55
2467	12	PEAK	15.91	30.00	-14.09	-7.60	8.31	36.02	-27.71
2472	13	PEAK	16.10	30.00	-13.90	-7.60	8.50	36.02	-27.52

Table 7-7. Peak Conducted Output Power and Max EIRP Measurements (802.11b)

FCC ID: IPH-05170 IC: 1792A-05170			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 32 of 91	

Freq [MHz]	Channel	Detector	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
2412	1	PEAK	21.08	30.00	-8.92	-7.60	13.48	36.02	-22.54
2417	2	PEAK	21.08	30.00	-8.92	-7.60	13.48	36.02	-22.54
2437	6	PEAK	21.54	30.00	-8.46	-7.60	13.94	36.02	-22.08
2457	10	PEAK	20.94	30.00	-9.06	-7.60	13.34	36.02	-22.68
2462	11	PEAK	20.92	30.00	-9.08	-7.60	13.32	36.02	-22.70
2467	12	PEAK	17.91	30.00	-12.09	-7.60	10.31	36.02	-25.71
2472	13	PEAK	17.71	30.00	-12.29	-7.60	10.11	36.02	-25.91

Table 7-8. Peak Conducted Output Power and Max EIRP Measurements (802.11g)

Freq [MHz]	Channel	Detector	Conducted Power [dBm]	Conducted Power Limit [dBm]	Conducted Power Margin [dB]	Ant. Gain [dBi]	Max e.i.r.p. [dBm]	Max e.i.r.p. Limit [dBm]	e.i.r.p. Margin [dB]
2412	1	PEAK	21.28	30.00	-8.72	-7.60	13.68	36.02	-22.34
2417	2	PEAK	21.28	30.00	-8.72	-7.60	13.68	36.02	-22.34
2437	6	PEAK	21.40	30.00	-8.60	-7.60	13.80	36.02	-22.22
2457	10	PEAK	21.17	30.00	-8.83	-7.60	13.57	36.02	-22.45
2462	11	PEAK	21.29	30.00	-8.71	-7.60	13.69	36.02	-22.33
2467	12	PEAK	20.52	30.00	-9.48	-7.60	12.92	36.02	-23.10
2472	13	PEAK	20.29	30.00	-9.71	-7.60	12.69	36.02	-23.33

Table 7-9. Peak Conducted Output Power and Max EIRP Measurements (802.11n)

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 33 of 91

7.5 Power Spectral Density

§15.247(e); RSS-247 [6.3.1(b)]

Test Overview and Limit

The power spectral density is measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated and the worst case configuration results are reported in this section.

The maximum permissible power spectral density is 8 dBm in any 3 kHz band.

Test Procedure Used

ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 – Subclause 11.10.3 & 11.10.5 Method AVGPS-1 & AVGPS-2
KDB 558074 D01 v05r02 – Section 8.4 DTS Maximum Power Spectral Density level in the fundamental emission

Test Settings

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span > 1.5 times the OBW
3. RBW = 3kHz
4. VBW $\geq 3 \times$ RBW
5. Detector = power averaging (rms)
6. Number of sweep points $\geq 2 \times$ (span/RBW)
7. Sweep time = auto couple
8. Employ trace averaging (rms) mode over a minimum of 100 traces
9. Use the peak marker function to determine the maximum amplitude level

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-4. Test Instrument & Measurement Setup

Test Notes

1. All data rates and channels were investigated, and tabular data has been reported.

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 34 of 91

V 11.0 5/2025

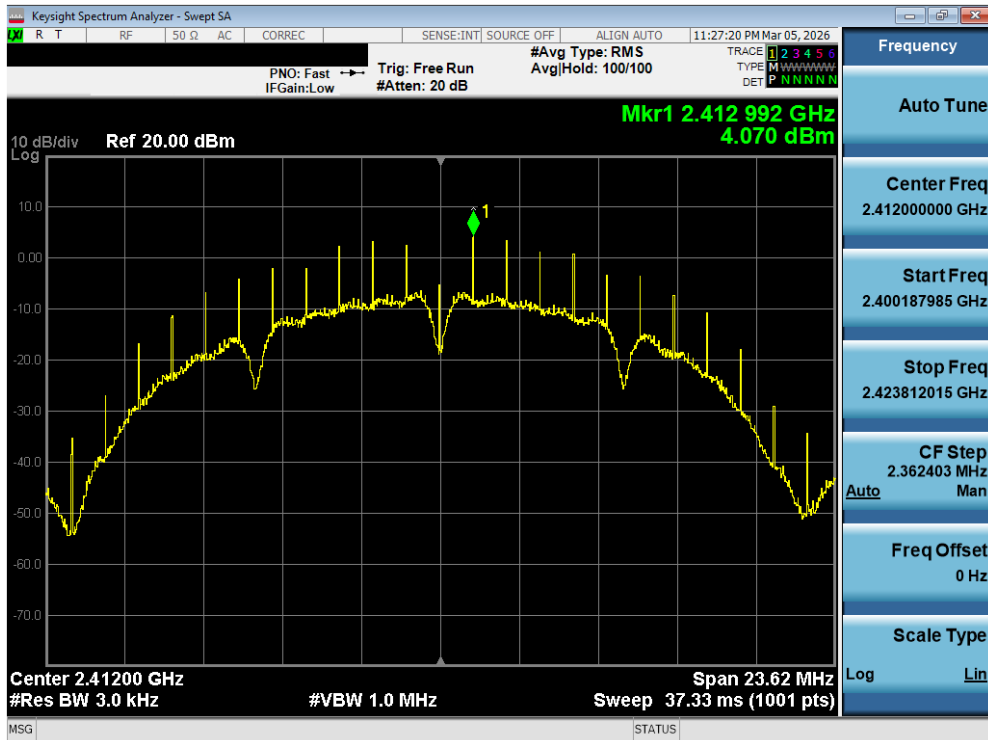
7.5.1 Power Spectral Density Measurements

Frequency [MHz]	Channel No.	802.11 MODE	Data Rate [Mbps]	Measured Power Density [dBm/3kHz]	Max Power Density [dBm/3kHz]	Margin [dB]	Pass/Fail
2412	1	b	1Mbps	4.07	8.00	-3.93	Pass
2437	6	b	1Mbps	3.95	8.00	-4.06	Pass
2462	11	b	1Mbps	4.08	8.00	-3.92	Pass
2412	1	g	6Mbps	-7.34	8.00	-15.34	Pass
2437	6	g	6Mbps	-7.37	8.00	-15.37	Pass
2462	11	g	6Mbps	-8.11	8.00	-16.11	Pass
2412	1	n	MCS0	-8.89	8.00	-16.89	Pass
2437	6	n	MCS0	-8.57	8.00	-16.57	Pass
2462	11	n	MCS0	-9.64	8.00	-17.64	Pass

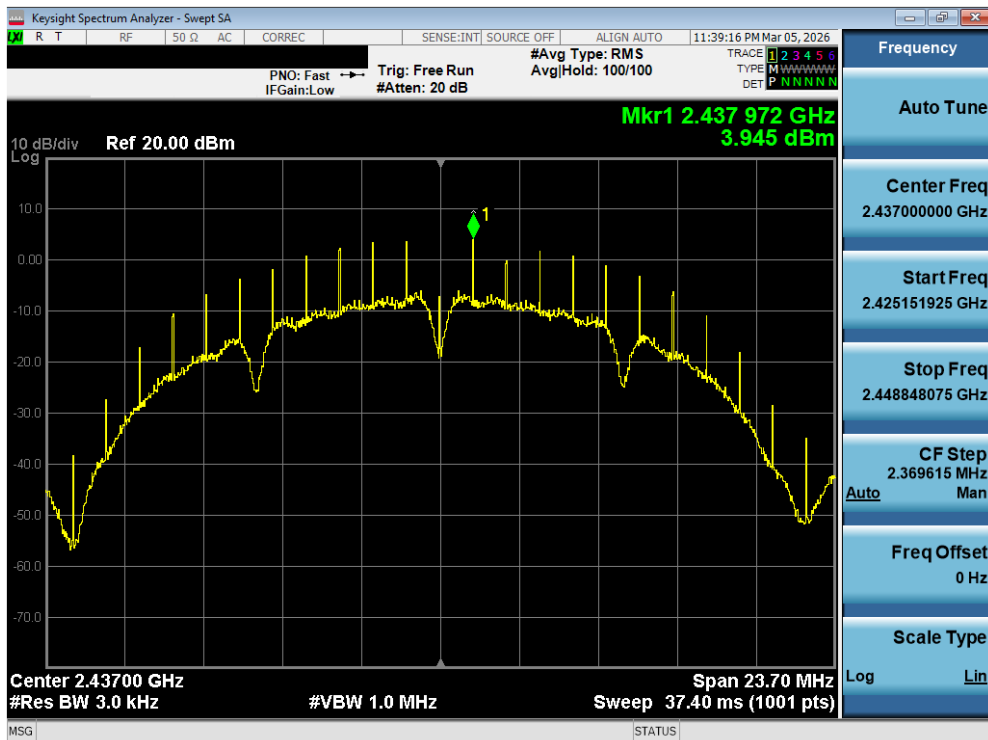
Table 7-10. Conducted Power Density Measurements

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 35 of 91

V 11.0 5/2025

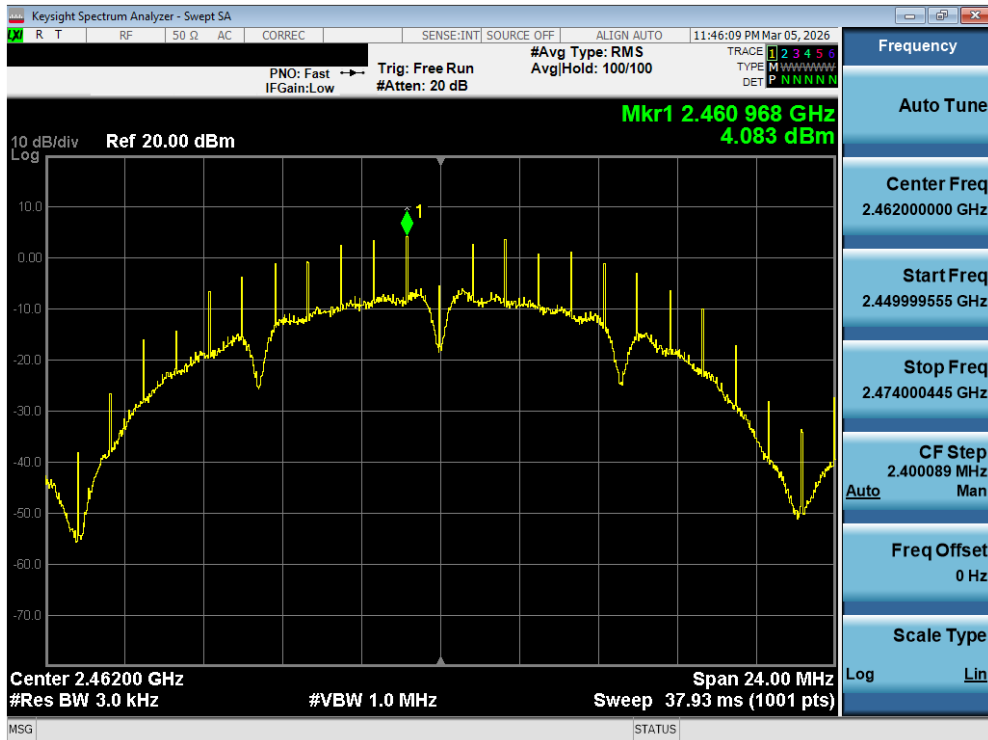


Plot 7-18 PSD (20MHz BW 802.11b - Ch.1)

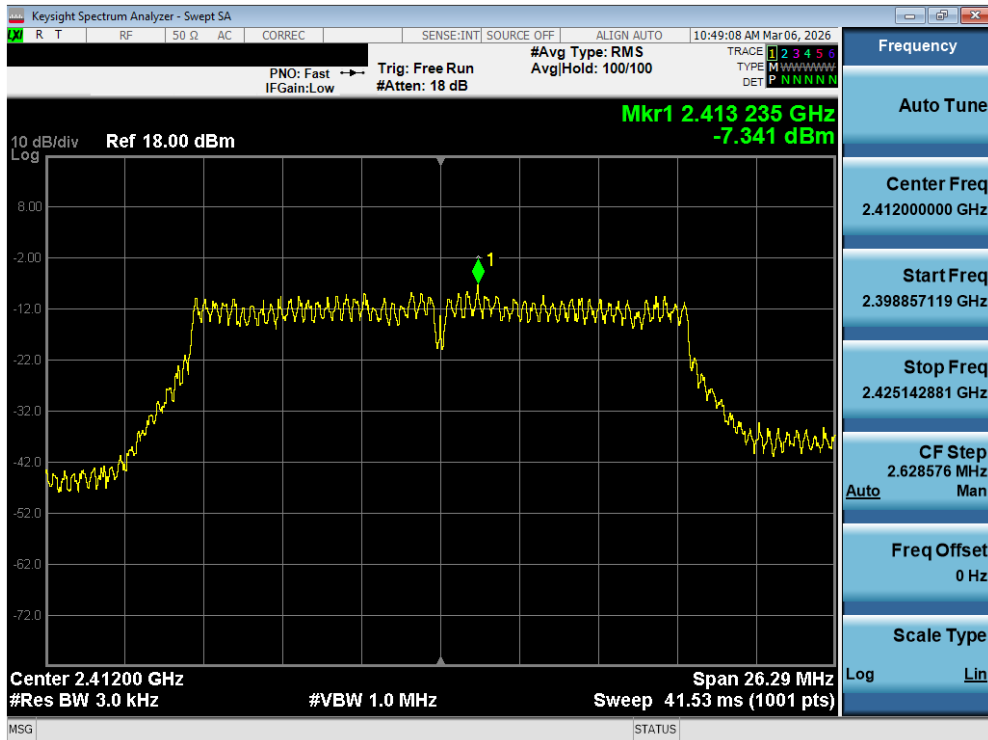


Plot 7-19 PSD (20MHz BW 802.11b - Ch.6)

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 36 of 91

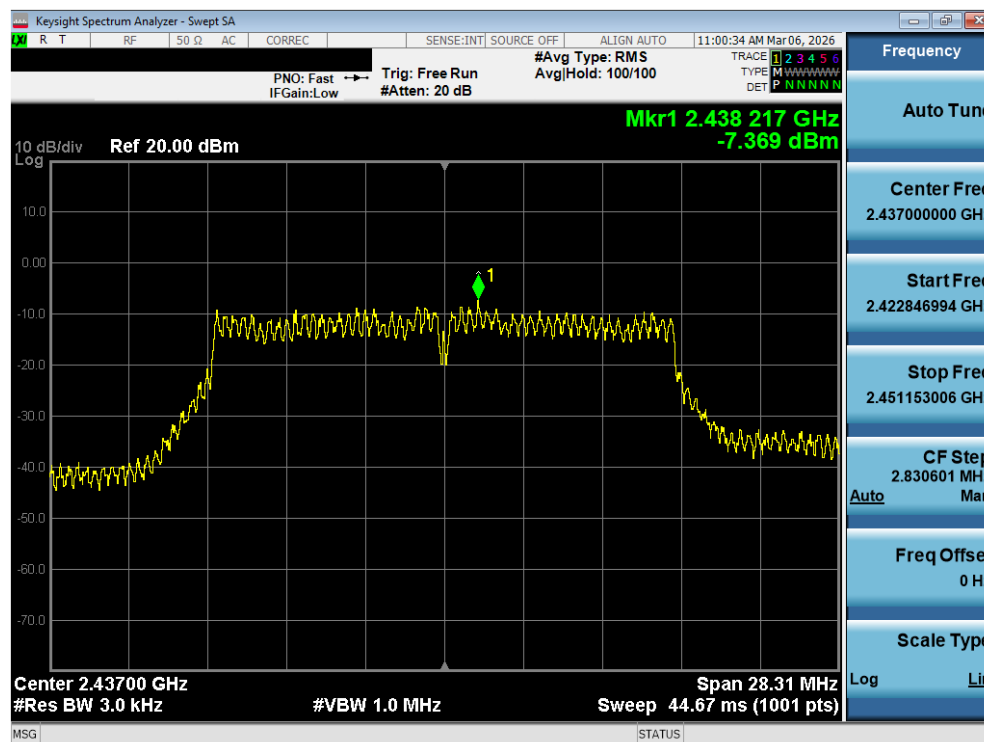


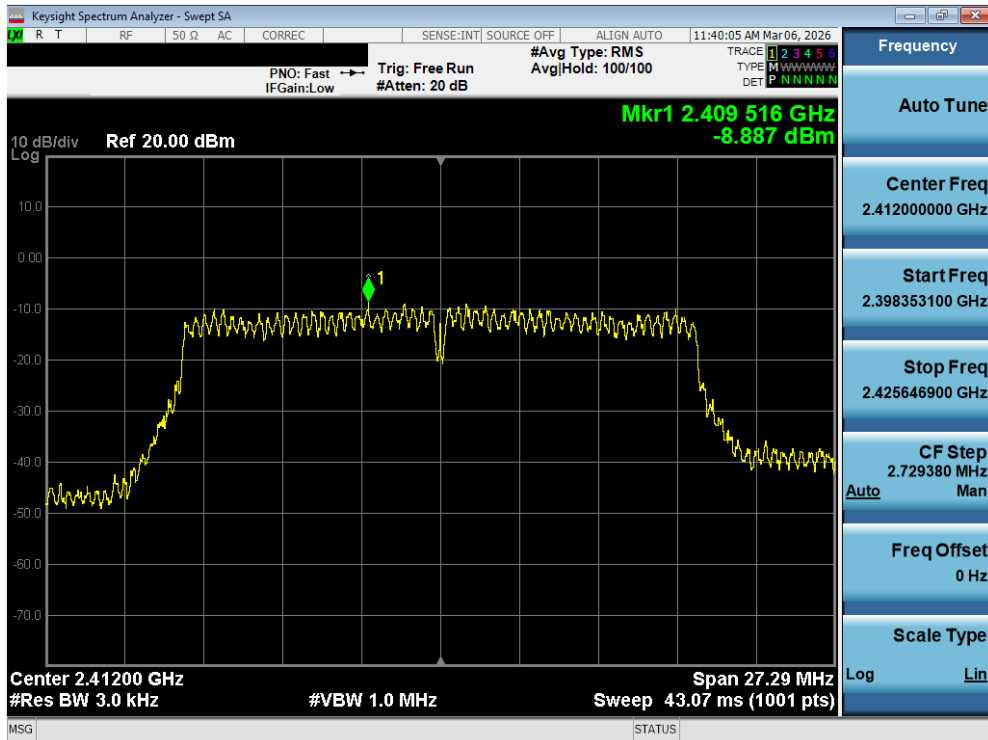
Plot 7-20 PSD (20MHz BW 802.11b - Ch.11)



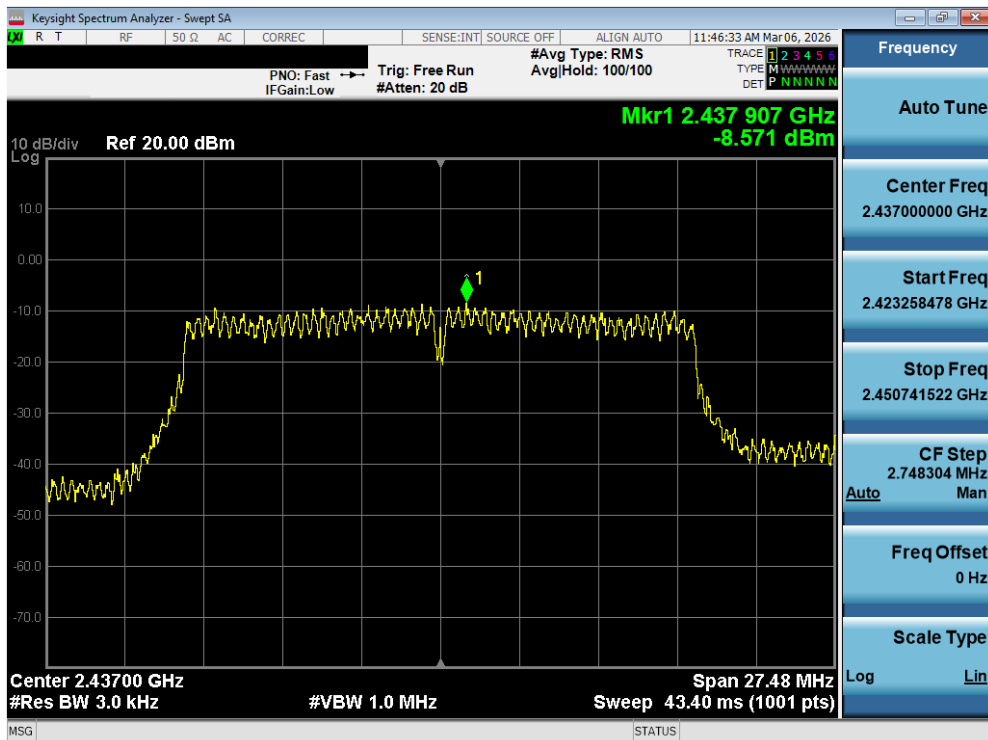
Plot 7-21 PSD (20MHz BW 802.11g - Ch.1)

FCC ID: IPH-05170 IC: 1792A-05170	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 37 of 91





Plot 7-24 PSD (20MHz BW 802.11n - Ch.1)

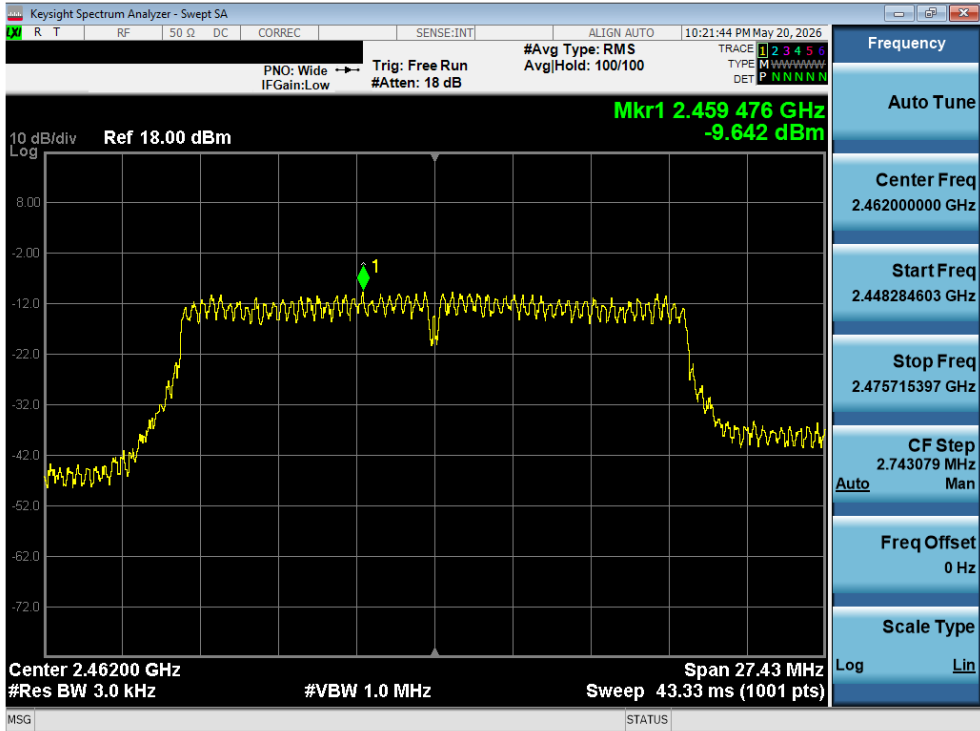


Plot 7-25 PSD (20MHz BW 802.11n - Ch.6)

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 39 of 91

V 11.0 5/2025

Unless otherwise specified, no part of this report may be reproduced or utilized in any part, form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from Element Materials Technology. If you have any questions about this or have an enquiry about obtaining additional rights to this report or assembly of contents thereof, please contact ct.info@element.com.



Plot 7-26 PSD (20MHz BW 802.11n - Ch.11)

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 40 of 91

7.6 Conducted Authorized Band Edge

§15.247(d); RSS-247 [6.6]

Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. For the following out of band conducted spurious emissions plots at the band edge, the EUT was set at a data rate of 11Mbps for “b” mode, 36Mbps for “g” mode, MCS5 for “n” mode, and MCS5 for “be-SU” mode as these settings produced the worst-case emissions.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure (Section 7.5).

Test Procedure Used

ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 – Subclause 11.11.3
KDB 558074 D01 v05r02 – Section 8.7.2

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 100kHz
4. VBW $\geq 3 \times$ RBW
5. Detector = Peak
6. Number of sweep points $\geq 2 \times$ Span/RBW
7. Trace mode = Max hold
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-5. Test Instrument & Measurement Setup

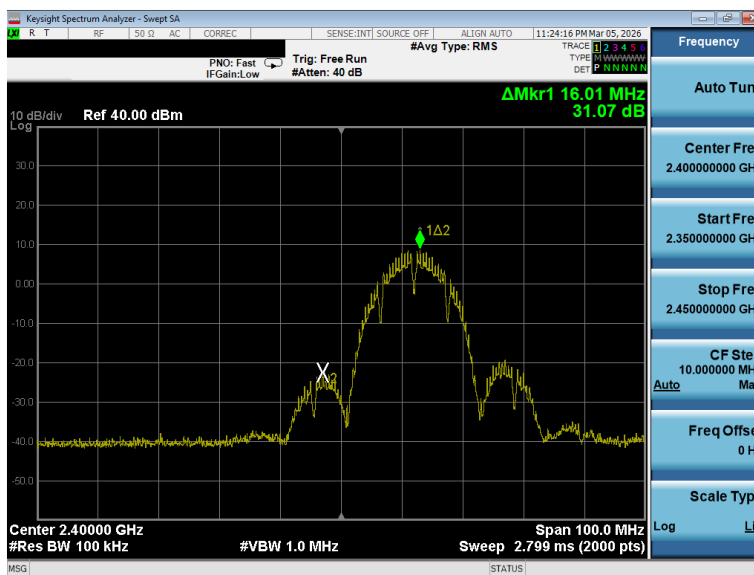
Test Notes

1. All data rates have been investigated and only the worst case data rate is reported.

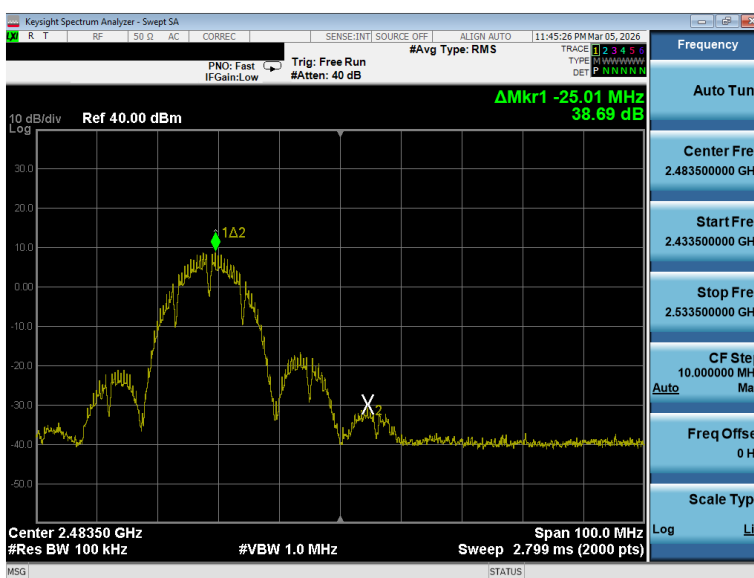
FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 41 of 91

V 11.0 5/2025

7.6.1 Conducted Emissions at the Band Edge

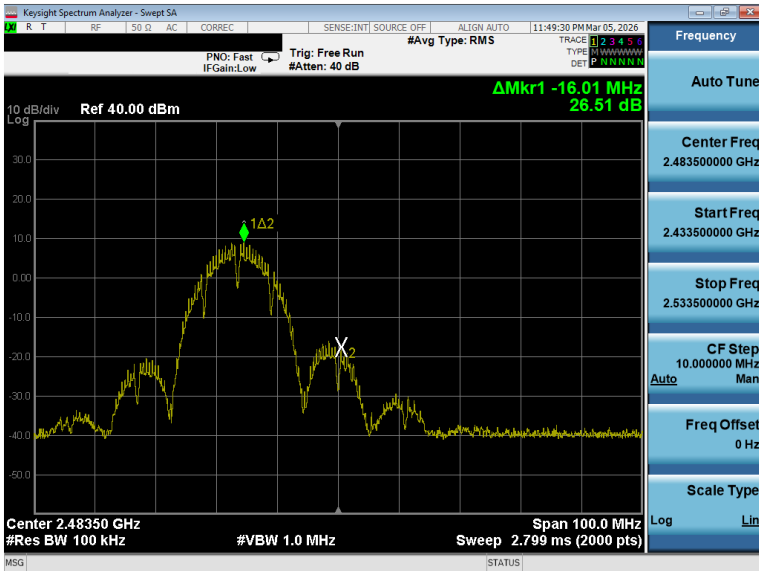


Plot 7-27. Band Edge Plot (802.11b – Ch. 1)

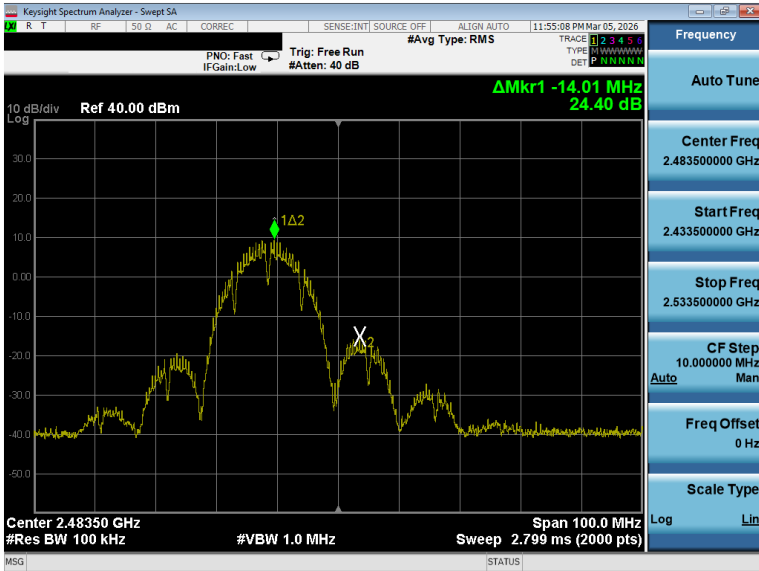


Plot 7-28. Band Edge Plot (802.11b – Ch. 11)

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 42 of 91

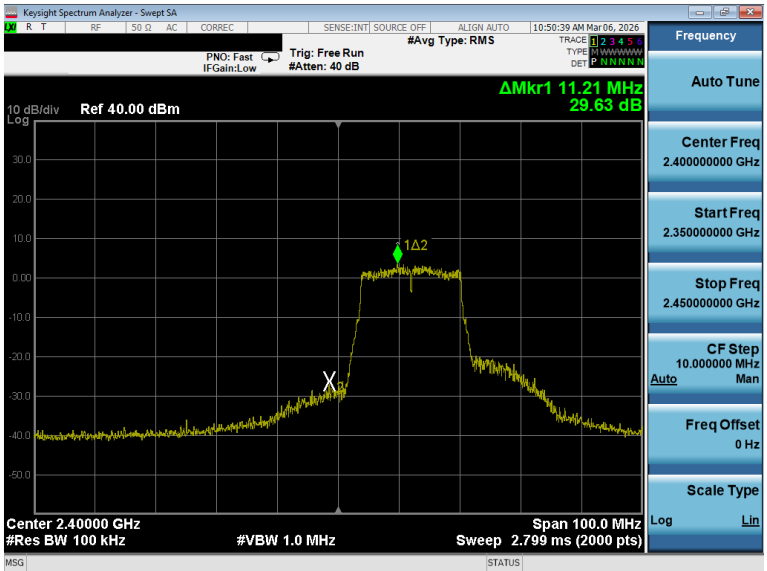


Plot 7-29. Band Edge Plot (802.11b – Ch. 12)

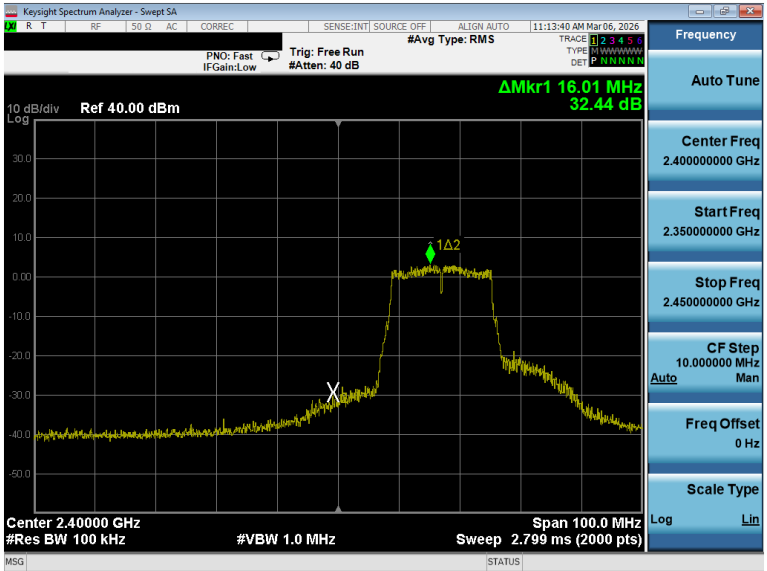


Plot 7-30. Band Edge Plot (802.11b – Ch. 13)

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 43 of 91

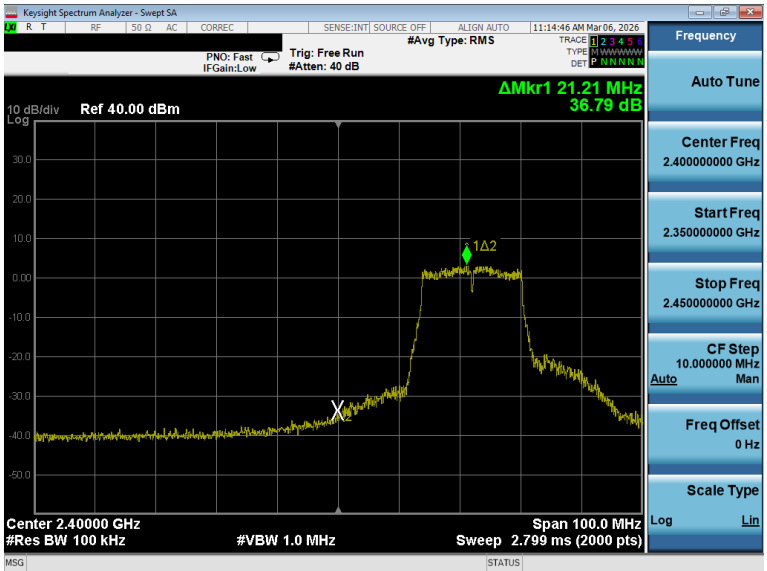


Plot 7-31. Band Edge Plot (802.11g – Ch. 1)

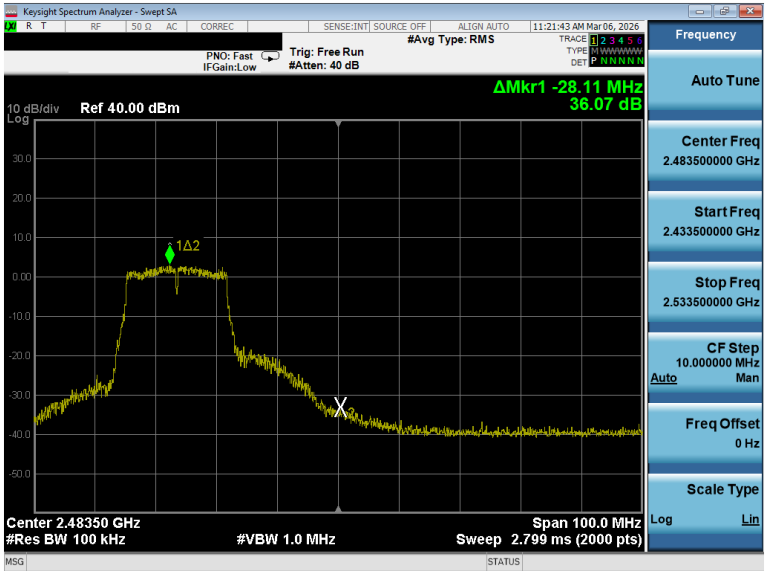


Plot 7-32. Band Edge Plot (802.11g – Ch. 2)

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 44 of 91

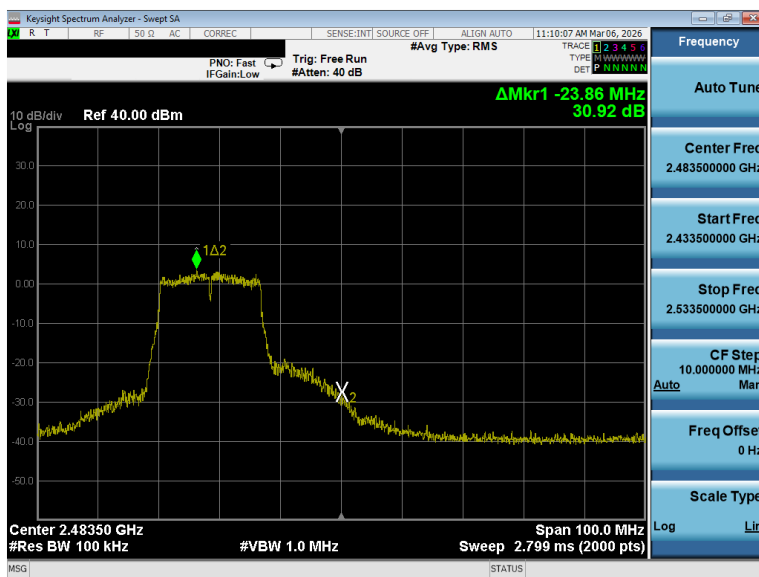


Plot 7-33. Band Edge Plot (802.11g – Ch. 3)

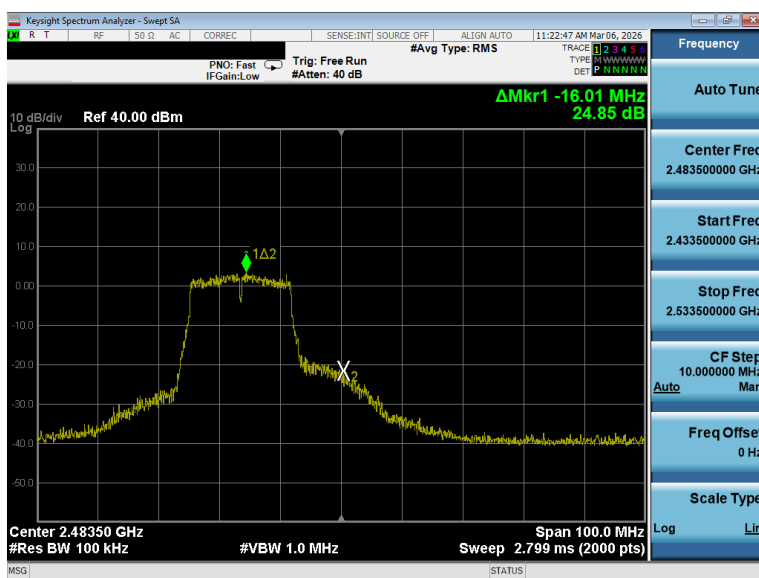


Plot 7-34. Band Edge Plot (802.11g – Ch. 10)

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 45 of 91



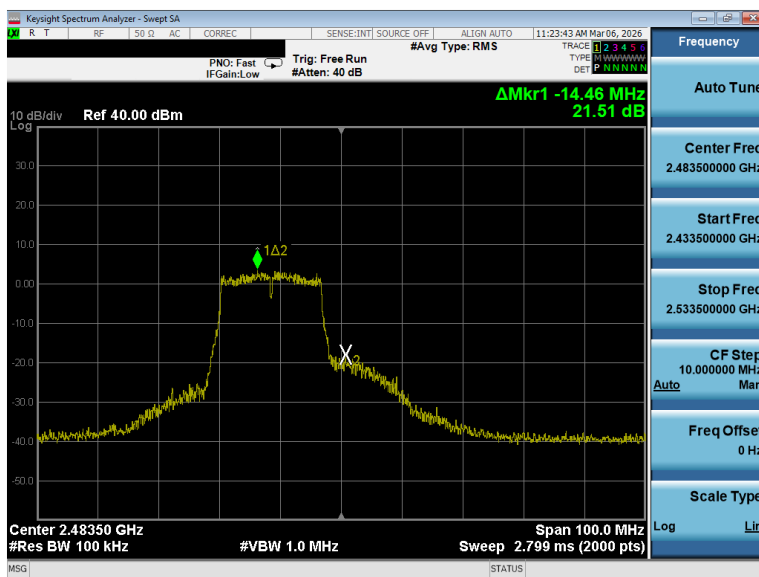
Plot 7-35. Band Edge Plot (802.11g – Ch. 11)



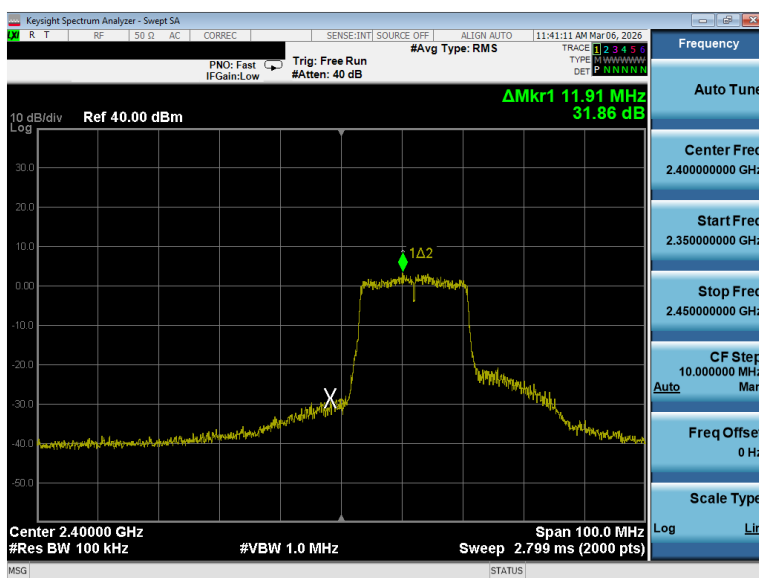
Plot 7-36. Band Edge Plot (802.11g – Ch. 12)

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 46 of 91

V 11.0 5/2025

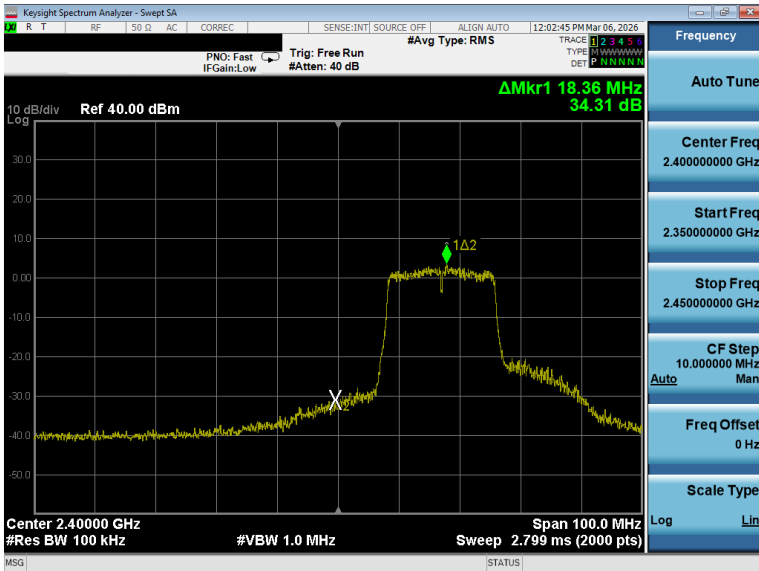


Plot 7-37. Band Edge Plot (802.11g – Ch. 13)

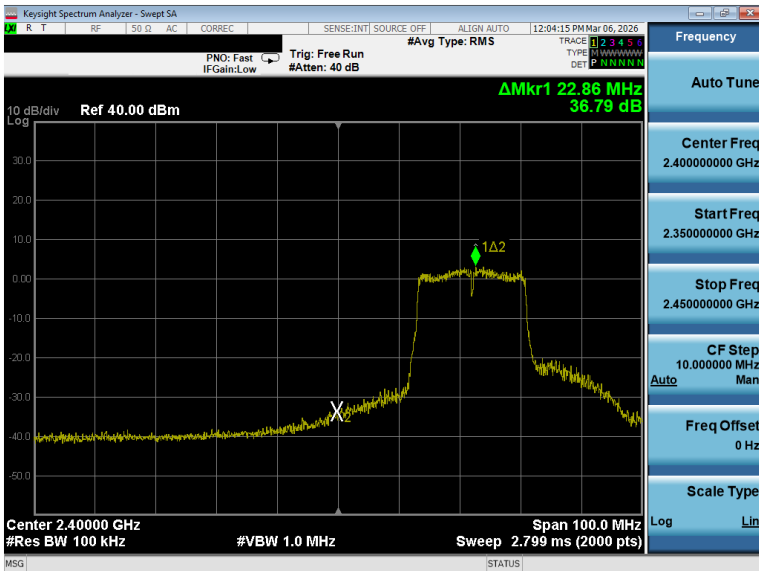


Plot 7-38. Band Edge Plot (802.11n (2.4GHz) – Ch. 1)

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 47 of 91

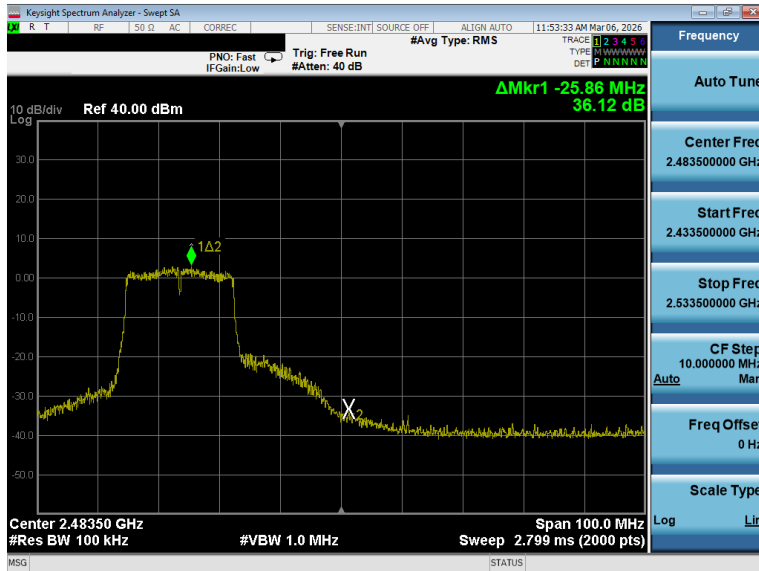


Plot 7-39. Band Edge Plot (802.11n (2.4GHz) - Ch. 2)

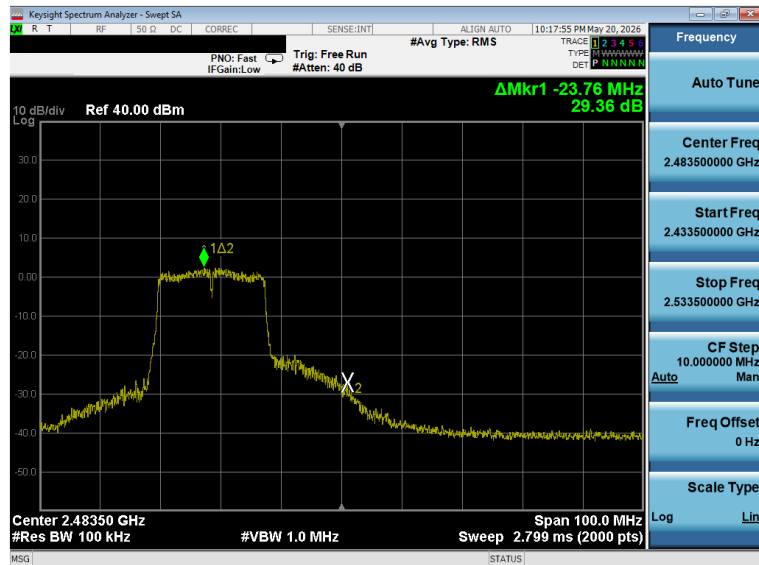


Plot 7-40. Band Edge Plot (802.11n (2.4GHz) - Ch. 3)

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 48 of 91

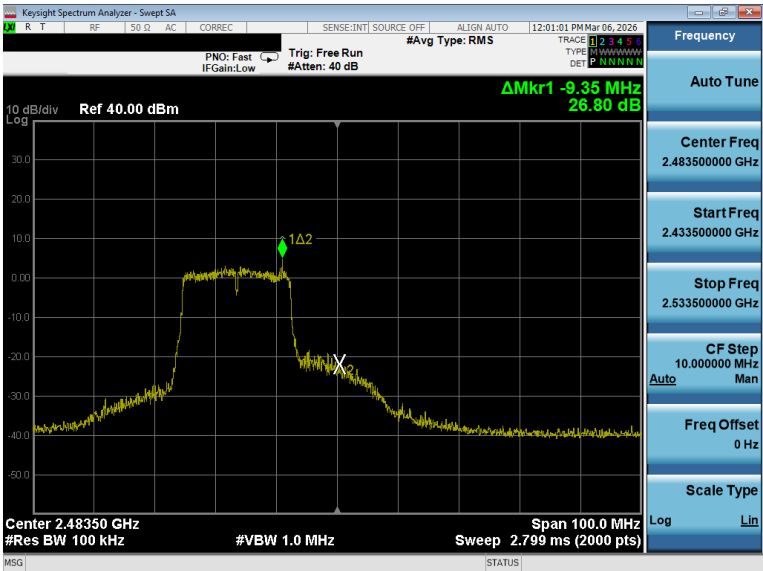


Plot 7-41. Band Edge Plot (802.11n (2.4GHz) - Ch. 10)

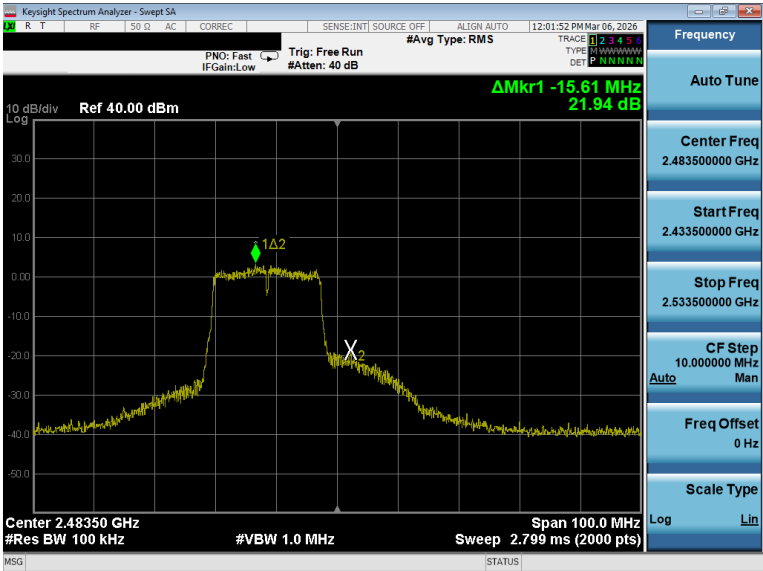


Plot 7-42. Band Edge Plot (802.11n (2.4GHz) - Ch. 11)

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 49 of 91



Plot 7-43. Band Edge Plot (802.11n (2.4GHz) – Ch. 12)



Plot 7-44. Band Edge Plot (802.11n (2.4GHz) – Ch. 13)

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 50 of 91

7.7 Conducted Spurious Emissions

§15.247(d); RSS-247 [6.6]

Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. For the following out of band conducted spurious emissions plots, the EUT was investigated in all available data rates for “b”, “g”, “n”, “ax-SU”, “be-SU” modes. The worst case spurious emissions for the 2.4GHz band were found while transmitting in “b” mode at 11 Mbps and are shown in the plots below.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 11.11 of ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 and KDB 558074 D01 v05r02.

Test Procedure Used

ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 – Subclause 11.11.3
KDB 558074 D01 v05r02 – Section 8.5
ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 – Subclause 14.3.3
KDB 662911 D01 v02r01 – Section E)3)b)

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-6. Test Instrument & Measurement Setup

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 51 of 91

V 11.0 5/2025

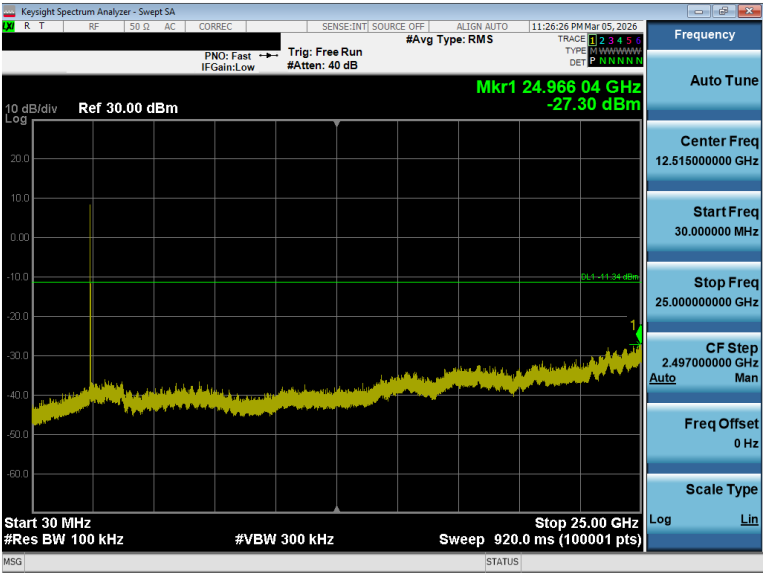
Test Notes

1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 20dB below the level of the fundamental in a 1MHz bandwidth.
3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.
4. The conducted spurious emissions were measured to relative limits. Therefore, in accordance with ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 and KDB 662911 D01 v02r01 Section E3)b), it was unnecessary to show compliance through the summation of test results of the individual outputs.
5. All modes, data rates, and antenna configurations were investigated.

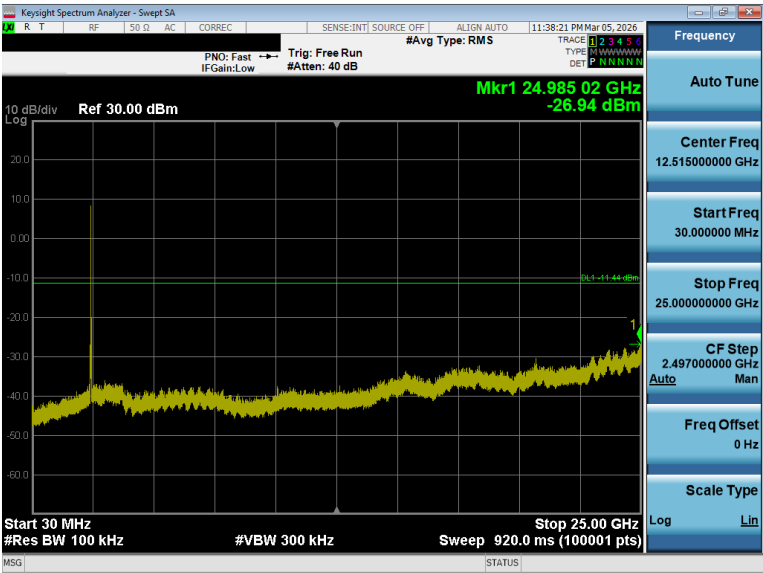
FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 52 of 91

V 11.0 5/2025

7.7.1 Conducted Spurious Emission

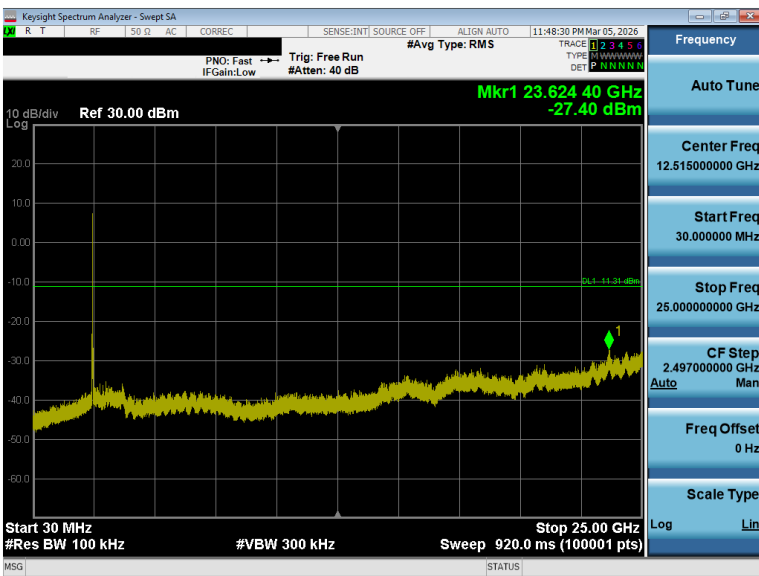


Plot 7-45. Conducted Spurious Plot (802.11b – Ch. 1)

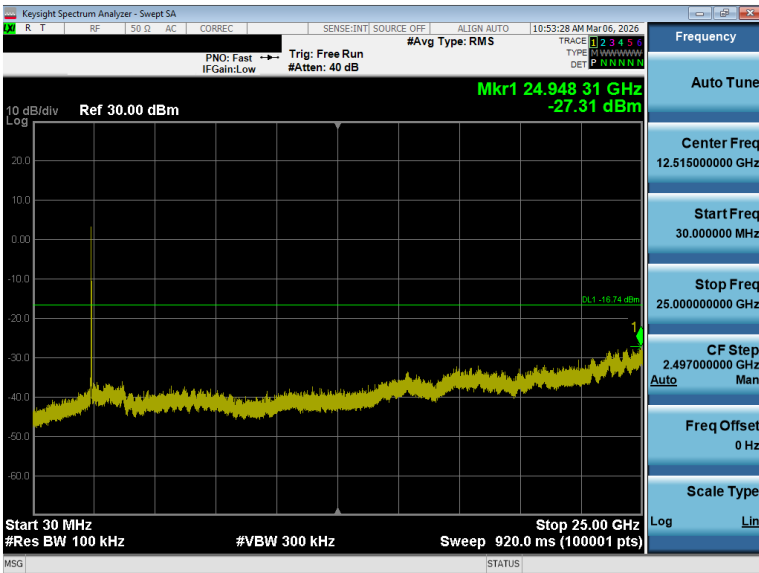


Plot 7-46. Conducted Spurious Plot (802.11b – Ch. 6)

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 53 of 91

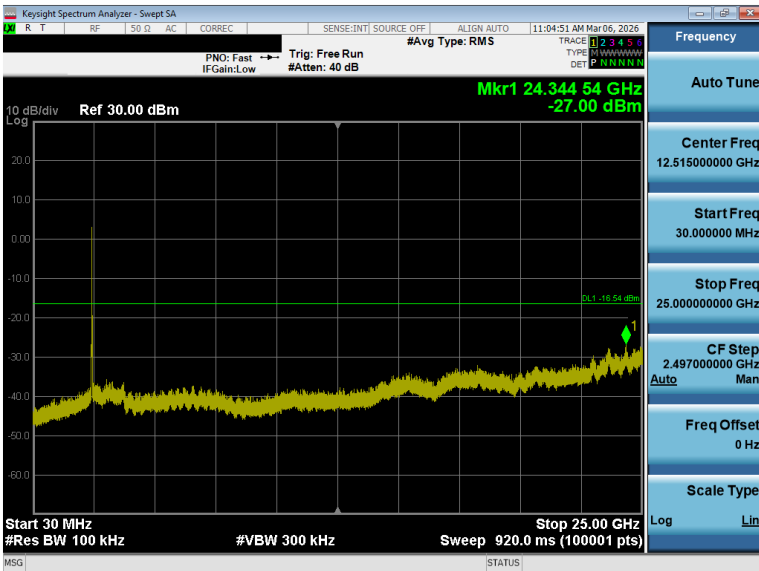


Plot 7-47. Conducted Spurious Plot (802.11b – Ch. 11)

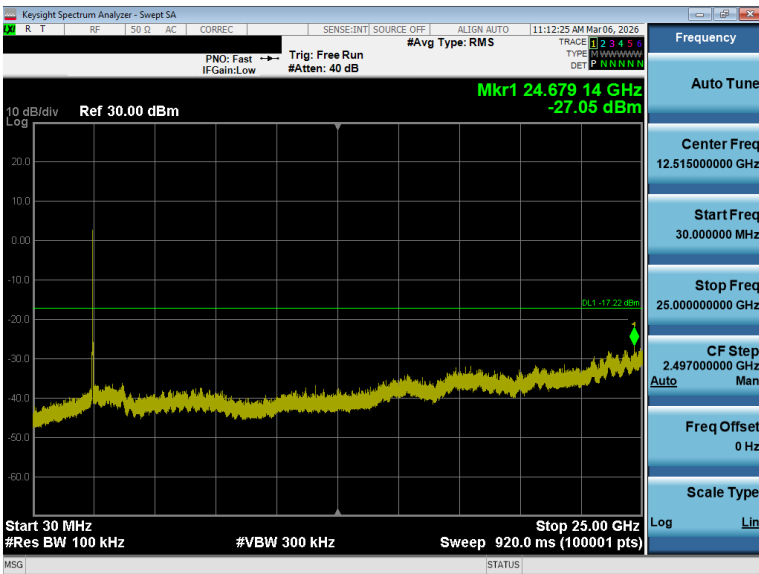


Plot 7-48. Conducted Spurious Plot (802.11g – Ch. 1)

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 54 of 91

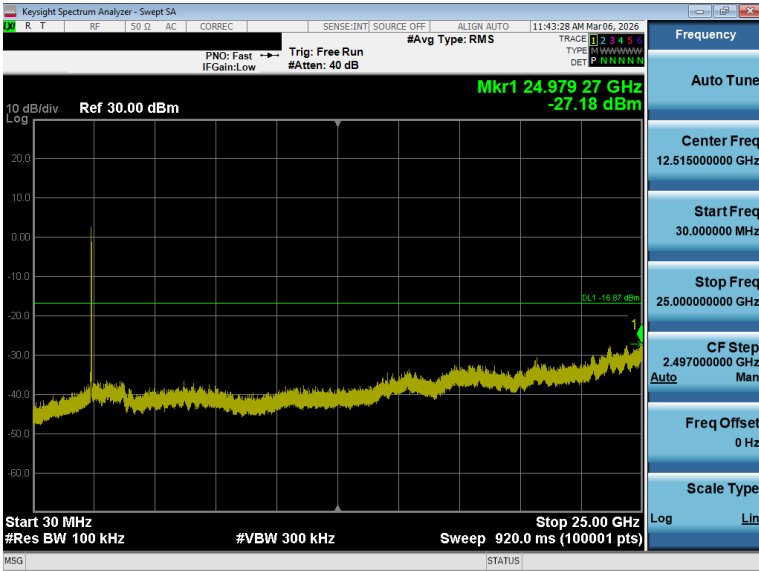


Plot 7-49. Conducted Spurious Plot (802.11g – Ch. 6)

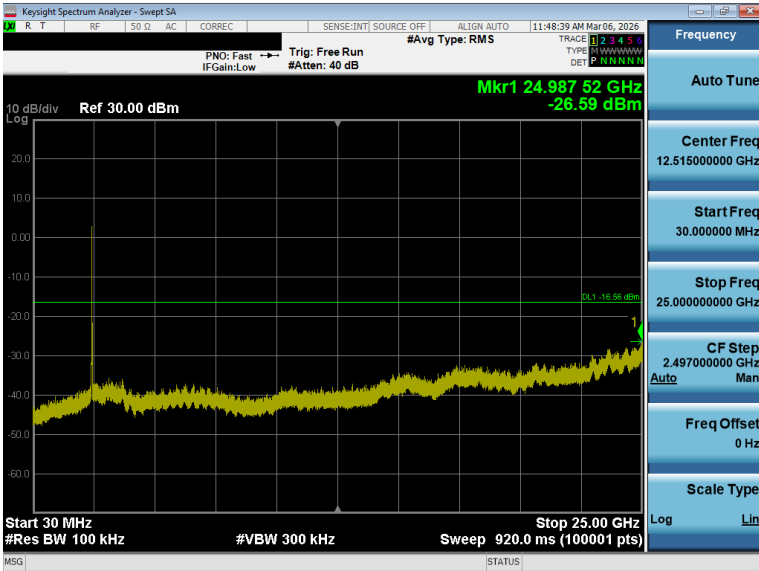


Plot 7-50. Conducted Spurious Plot (802.11g – Ch. 11)

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 55 of 91

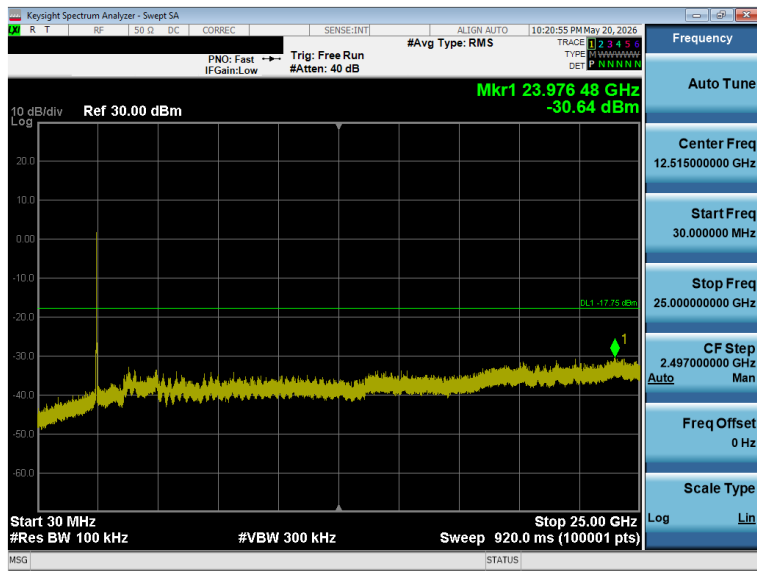


Plot 7-51. Conducted Spurious Plot (802.11n – Ch. 1)



Plot 7-52. Conducted Spurious Plot (802.11n – Ch. 6)

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 56 of 91



Plot 7-53. Conducted Spurious Plot (802.11n – Ch. 11)

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 57 of 91

V 11.0 5/2025

7.8 Radiated Spurious Emissions – Above 1 GHz

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-11 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-11. Radiated Limits

Test Procedures Used

ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024 – Subclause 6.6.4.3
KDB 558074 D01 v05r02 – Sections 8.6, 8.7

Test Settings

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 58 of 91

V 11.0 5/2025

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

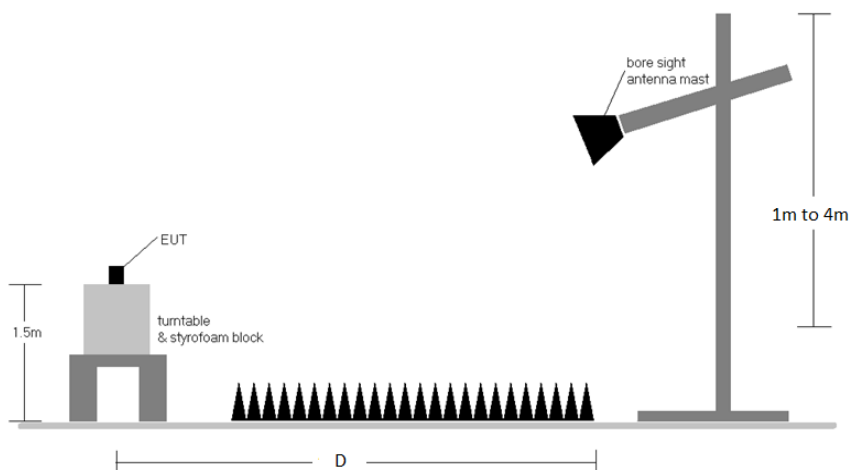


Figure 7-7. Radiated Measurement Setup

Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r02 were not used to evaluate this device for compliance to radiated limits. All Radiated Spurious Emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in Section 15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-11.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. All data rates and antenna configurations were investigated and only the worst case is reported.
10. The unit was tested at its highest output power.
11. The unit was tested with all possible modes and only the highest emission is reported.

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 59 of 91

V 11.0 5/2025

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level $_{\text{[dB}\mu\text{V/m]}} = \text{Analyzer Level}_{\text{[dBm]}} + 107 + \text{AFCL}_{\text{[dB/m]}}$
- $\text{AFCL}_{\text{[dB/m]}} = \text{Antenna Factor}_{\text{[dB/m]}} + \text{Cable Loss}_{\text{[dB]}} - \text{Preamplifier Gain}_{\text{[dB]}}$
- $\text{Margin}_{\text{[dB]}} = \text{Field Strength Level}_{\text{[dB}\mu\text{V/m]}} - \text{Limit}_{\text{[dB}\mu\text{V/m]}}$

Radiated Band Edge Measurement Offset

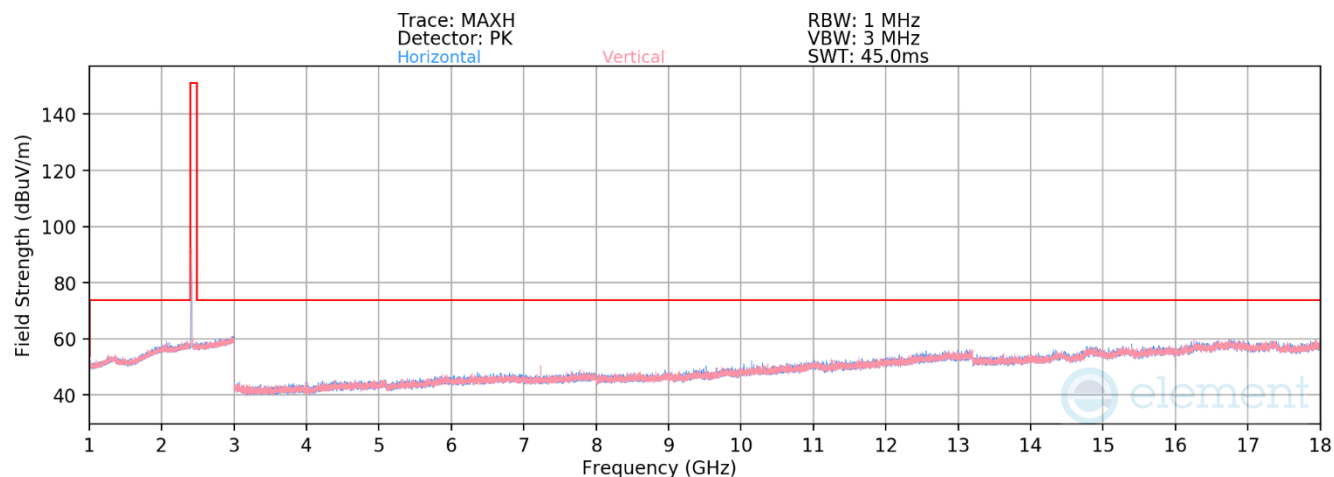
- The amplitude offset shown in the radiated restricted band edge plots in Section 7.8.2 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 60 of 91

V 11.0 5/2025

7.8.1 Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



Plot 7-54. Radiated Spurious Emissions above 1GHz (802.11b – Ch. 1)

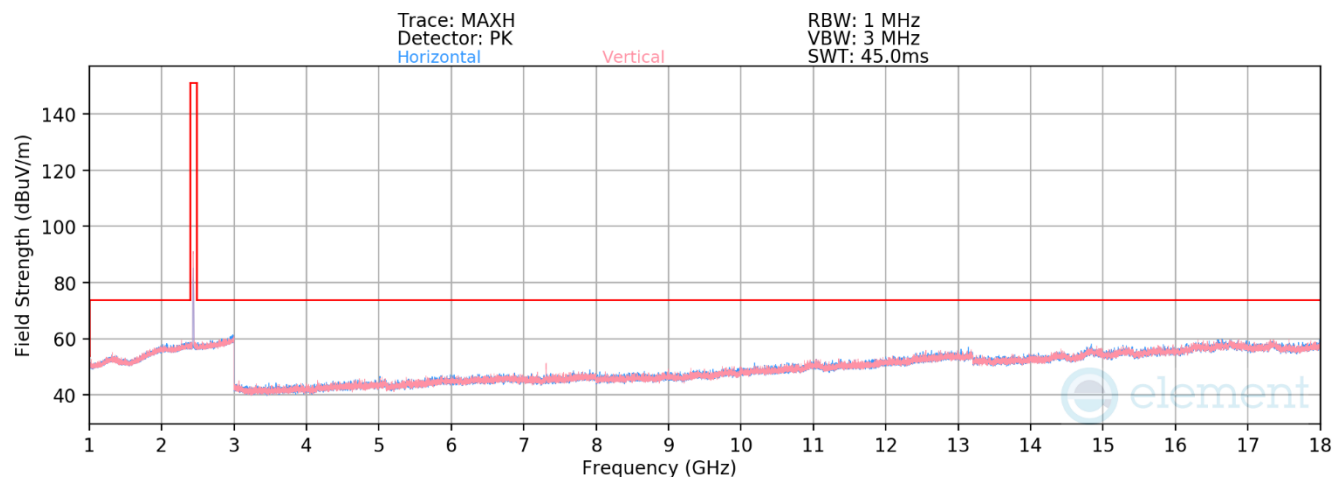
Mode:	802.11b
Data Rate:	1Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	Avg	V	295	328	-78.28	7.04	35.76	53.98	-18.21
4824.00	Peak	V	295	328	-67.51	7.04	46.53	73.98	-27.45
12060.00	Avg	-	-	-	-83.86	18.75	41.88	53.98	-12.10
12060.00	Peak	-	-	-	-72.56	18.75	53.19	73.98	-20.79
14472.00	Avg	-	-	-	-82.93	21.41	45.48	53.98	-8.50
14472.00	Peak	-	-	-	-72.57	21.41	55.84	73.98	-18.14

Table 7-12. Radiated Measurements

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 61 of 91

V 11.0 5/2025



Plot 7-55. Radiated Spurious Emissions above 1GHz (802.11b – Ch. 6)

Mode: 802.11b

Data Rate: 1Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2437MHz

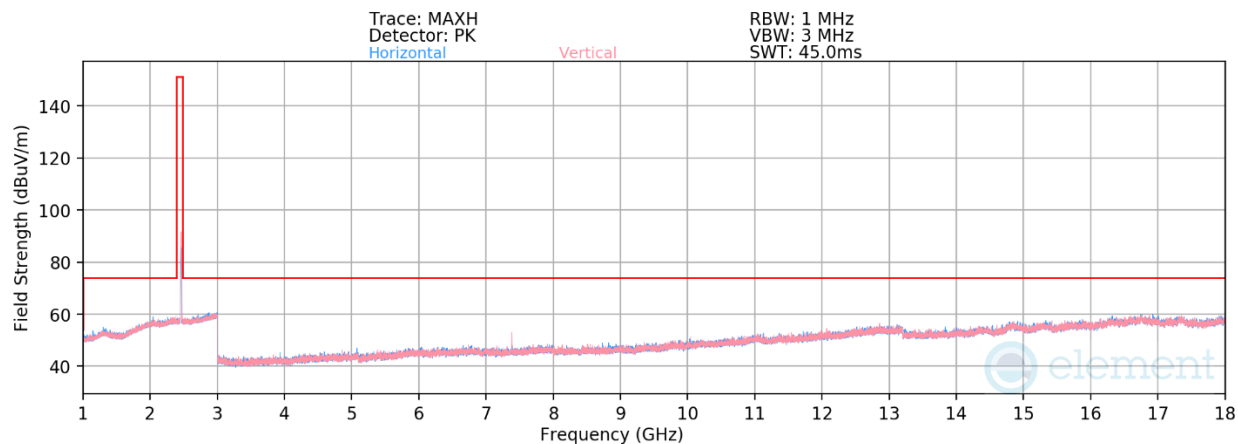
Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4874.00	Avg	V	117	47	-79.43	7.77	35.34	53.98	-18.64
4874.00	Peak	V	117	47	-69.26	7.77	45.52	73.98	-28.46
7311.00	Avg	V	105	93	-71.56	10.78	46.22	53.98	-7.76
7311.00	Peak	V	105	93	-64.46	10.78	53.32	73.98	-20.66
12185.00	Avg	-	-	-	-83.91	18.57	41.65	53.98	-12.33
12185.00	Peak	-	-	-	-72.30	18.57	53.27	73.98	-20.71

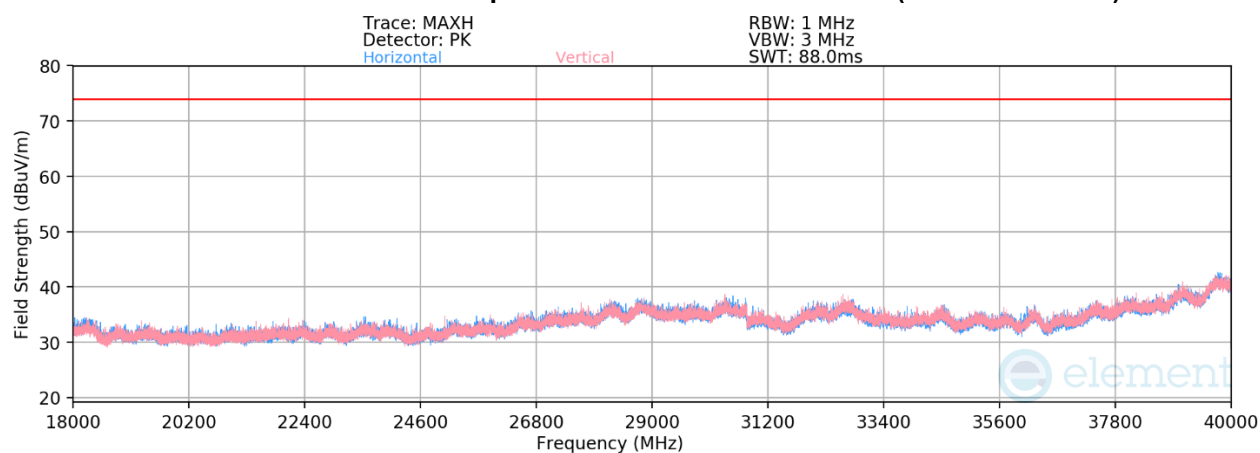
Table 7-13. Radiated Measurements

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver		Page 62 of 91

V 11.0 5/2025



Plot 7-56. Radiated Spurious Emissions above 1GHz (802.11b – Ch. 11)



Plot 7-57. Radiated Spurious Emissions above 18GHz (802.11b – Ch. 11)

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 63 of 91

V 11.0 5/2025

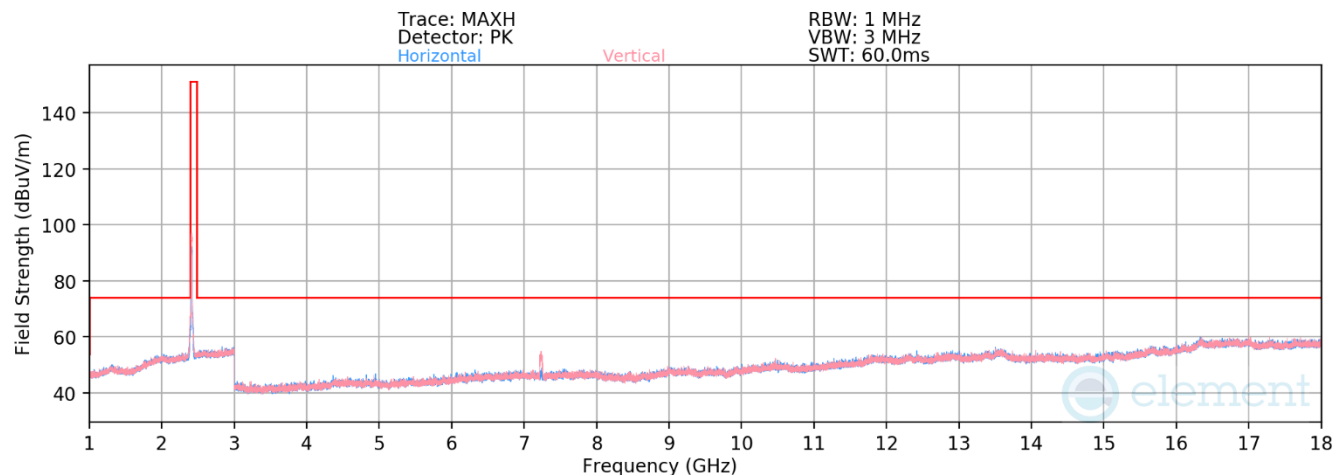
Mode: 802.11b
 Data Rate: 1Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	-	-	-	-80.30	7.34	0.00	34.05	53.98	-19.93
4924.00	Peak	-	-	-	-68.46	7.34	0.00	45.88	73.98	-28.10
7386.00	Avg	V	101	235	-71.29	11.06	0.00	46.77	53.98	-7.21
7386.00	Peak	V	101	235	-64.21	11.06	0.00	53.85	73.98	-20.13
12310.00	Avg	-	-	-	-84.09	18.72	0.00	41.62	53.98	-12.36
12310.00	Peak	-	-	-	-72.48	18.72	0.00	53.24	73.98	-20.74
19696.00	Avg	-	-	-	-63.05	-5.90	-9.54	28.51	53.98	-25.47
19696.00	Peak	-	-	-	-51.60	-5.90	-9.54	39.96	73.98	-34.02
22158.00	Avg	-	-	-	-62.54	-6.19	-9.54	28.73	53.98	-25.25
22158.00	Peak	-	-	-	-50.86	-6.19	-9.54	40.41	73.98	-33.57

Table 7-14. Radiated Measurements

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 64 of 91

V 11.0 5/2025



Plot 7-58. Radiated Spurious Emissions above 1GHz (802.11n – Ch. 1)

Mode: 802.11n

Data Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 2412MHz

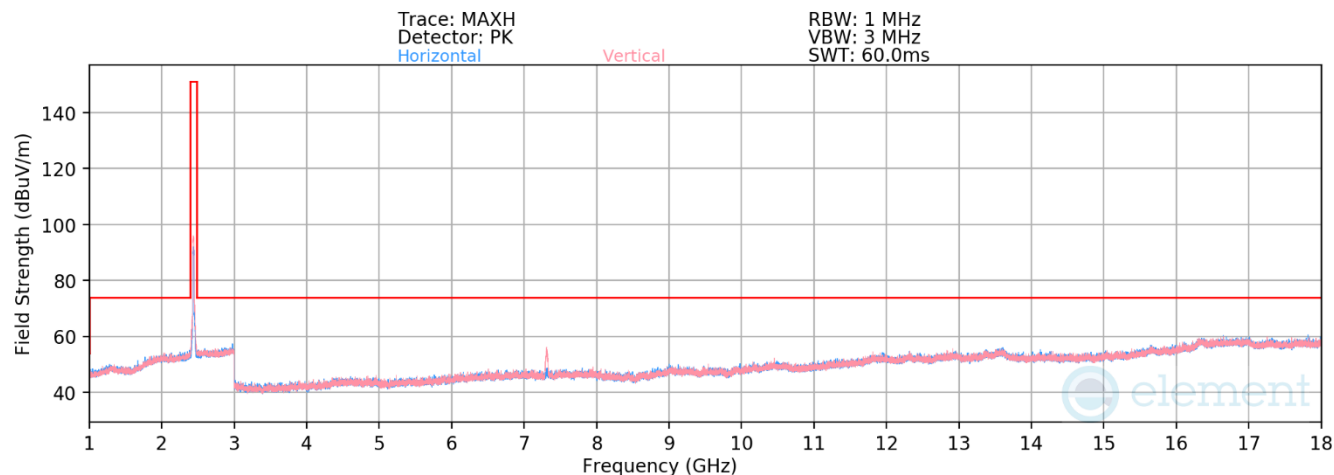
Channel: 01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4824.00	Avg	V	-	-	-80.39	8.40	35.01	53.98	-18.97
4824.00	Peak	V	-	-	-69.17	8.40	46.23	73.98	-27.75
12060.00	Avg	H	-	-	-83.11	18.29	42.18	53.98	-11.80
12060.00	Peak	H	-	-	-71.04	18.29	54.25	73.98	-19.73
14472.00	Avg	V	-	-	-84.34	20.48	43.14	53.98	-10.84
14472.00	Peak	V	-	-	-72.60	20.48	54.88	73.98	-19.10

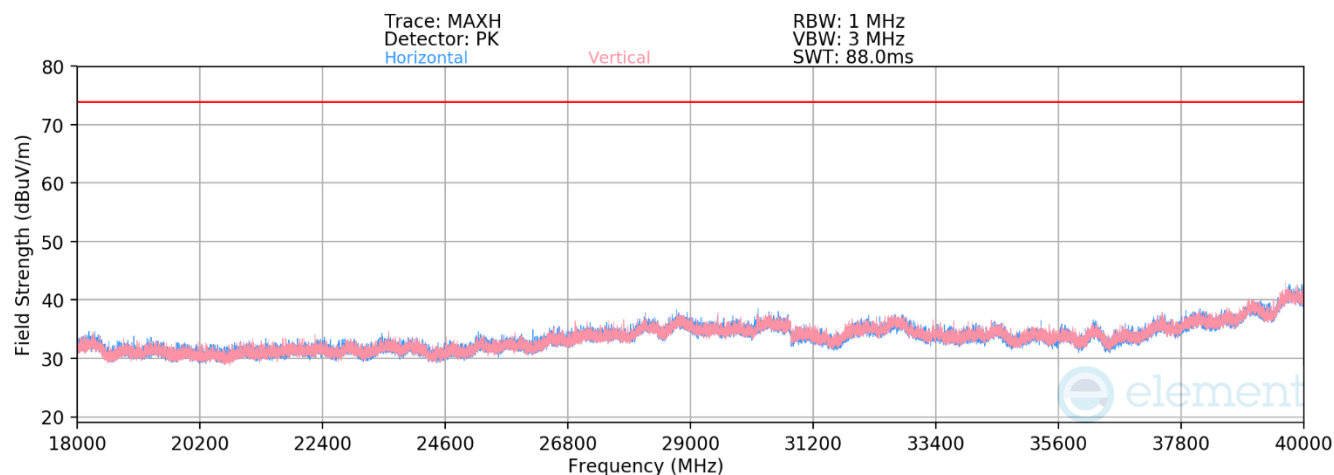
Table 7-15. Radiated Measurements

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 65 of 91

V 11.0 5/2025



Plot 7-59. Radiated Spurious Emissions above 1GHz (802.11n – Ch. 6)



Plot 7-60. Radiated Spurious Emissions above 18GHz (802.11n – Ch.6)

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 66 of 91

V 11.0 5/2025

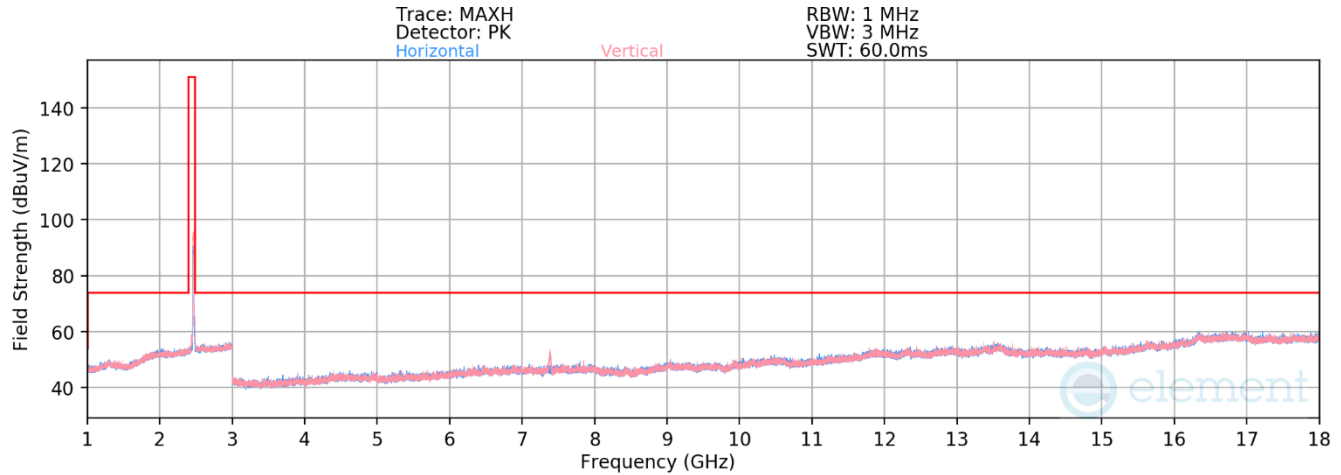
Mode: 802.11n
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	H	-	-	-81.15	8.62	0.00	34.47	53.98	-19.51
4874.00	Peak	H	-	-	-69.91	8.62	0.00	45.71	73.98	-28.27
7311.00	Avg	V	105	87	-71.25	11.52	0.00	47.27	53.98	-6.71
7311.00	Peak	V	105	87	-57.68	11.52	0.00	60.84	73.98	-13.14
12185.00	Avg	V	-	-	-83.73	17.94	0.00	41.21	53.98	-12.77
12185.00	Peak	V	-	-	-72.05	18.02	0.00	52.97	73.98	-21.01
19496.00	Avg	V	-	-	-62.83	-6.01	-9.54	28.62	53.98	-25.36
19496.00	Peak	V	-	-	-51.41	-6.01	-9.54	40.04	73.98	-33.94

Table 7-16. Radiated Measurements

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 67 of 91

V 11.0 5/2025



Plot 7-61. Radiated Spurious Emissions above 1GHz (802.11n – Ch. 11)

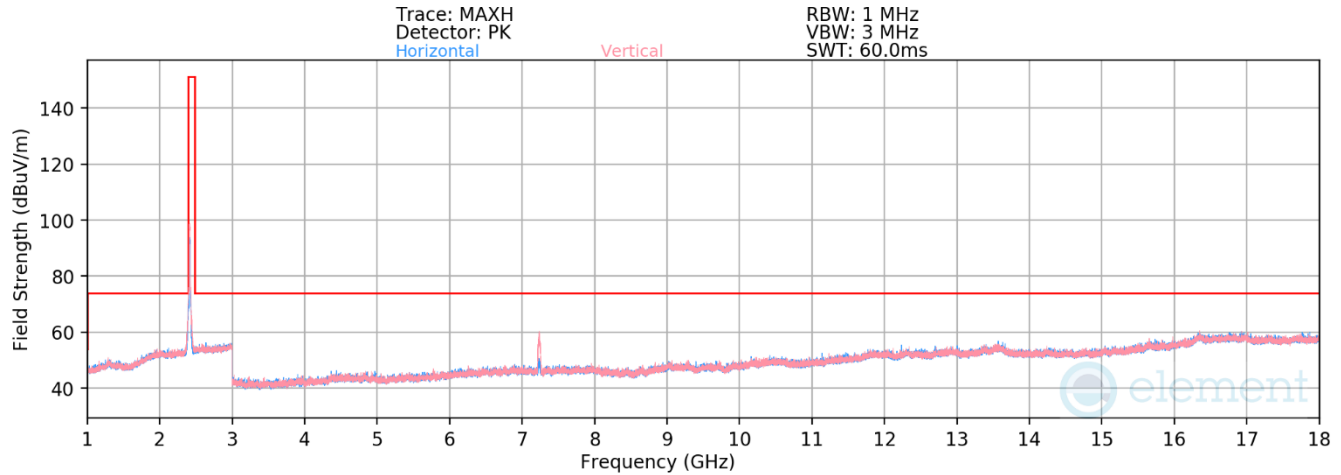
Mode: 802.11n
Data Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4924.00	Avg	H	378	84	-80.76	8.53	34.77	53.98	-19.21
4924.00	Peak	H	378	84	-69.33	8.53	46.20	73.98	-27.78
7386.00	Avg	V	103	95	-75.49	11.73	43.24	53.98	-10.74
7386.00	Peak	V	103	95	-62.30	11.73	56.43	73.98	-17.55
12310.00	Avg	V	-	-	-83.57	19.07	42.50	53.98	-11.48
12310.00	Peak	V	-	-	-71.61	19.07	54.46	73.98	-19.52
14772.00	Avg	H	-	-	-84.21	20.85	43.64	53.98	-10.34
14772.00	Peak	H	-	-	-73.15	20.85	54.70	73.98	-19.28

Table 7-17. Radiated Measurements

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver		Page 68 of 91

V 11.0 5/2025



Plot 7-62. Radiated Spurious Emissions above 1GHz (802.11g – Ch. 1)

Mode: 802.11g

Data Rate: 6Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2412MHz

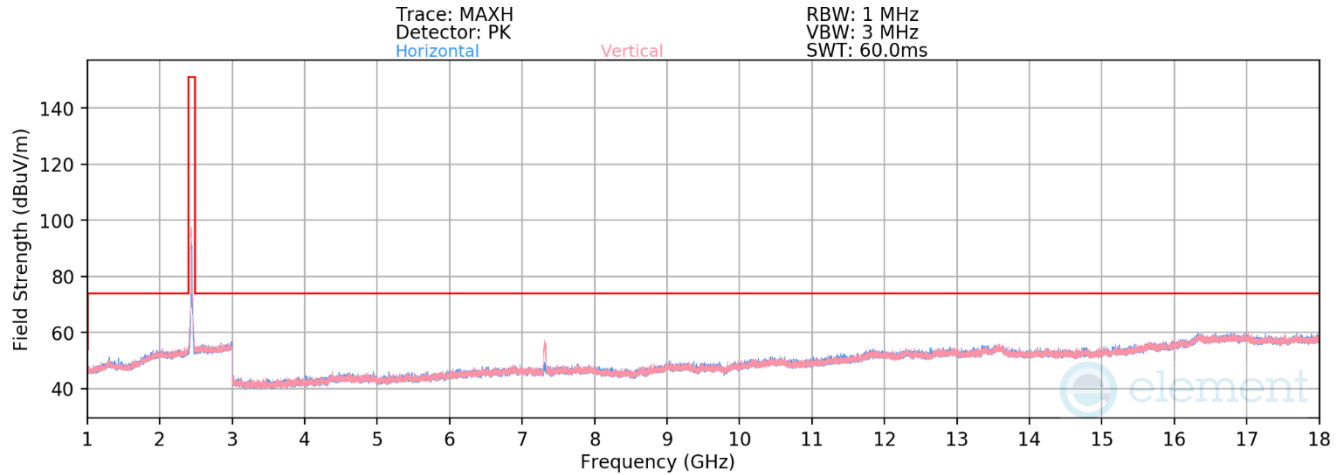
Channel: 01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4824.00	Avg	V	-	-	-80.34	8.40	35.06	53.98	-18.92
4824.00	Peak	V	-	-	-69.16	8.40	46.24	73.98	-27.74
12060.00	Avg	V	-	-	-83.10	18.02	41.92	53.98	-12.06
12060.00	Peak	V	-	-	-71.52	18.02	53.50	73.98	-20.48
14472.00	Avg	H	-	-	-83.43	19.94	43.51	53.98	-10.47
14472.00	Peak	H	-	-	-72.53	20.48	54.95	73.98	-19.03

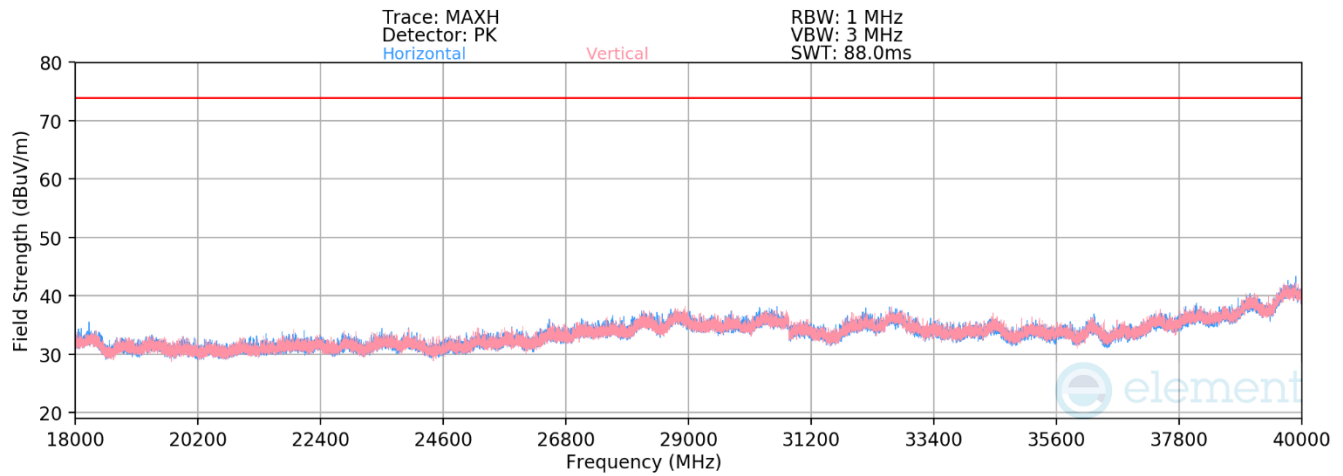
Table 7-18. Radiated Measurements

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 69 of 91

V 11.0 5/2025



Plot 7-63. Radiated Spurious Emissions above 1GHz (802.11g – Ch. 6)



Plot 7-64. Radiated Spurious Emissions above 18GHz (802.11g – Ch.6)

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 70 of 91

V 11.0 5/2025

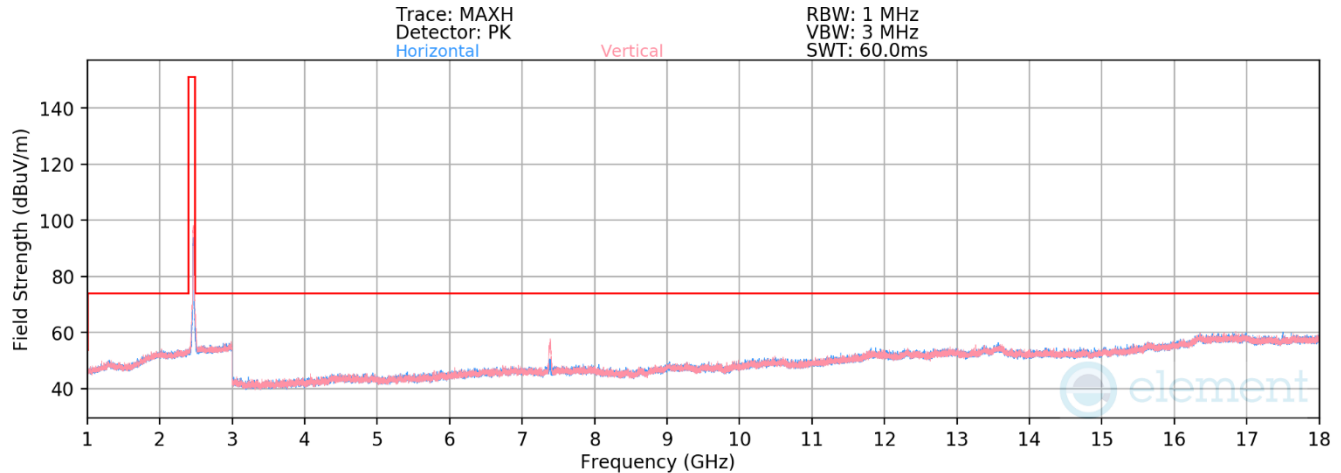
Mode: 802.11g
 Data Rate: 6Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	V	-	-	-80.95	8.62	0.00	34.67	53.98	-19.31
4874.00	Peak	V	-	-	-69.82	8.62	0.00	45.80	73.98	-28.18
7311.00	Avg	V	103	87	-69.59	11.93	0.00	49.34	53.98	-4.64
7311.00	Peak	V	103	87	-56.72	11.52	0.00	61.80	73.98	-12.18
12185.00	Avg	H	-	-	-83.82	18.07	0.00	41.25	53.98	-12.73
12185.00	Peak	H	-	-	-72.06	17.94	0.00	52.88	73.98	-21.10
19496.00	Avg	V	-	-	-72.81	-5.96	-9.54	28.23	53.98	-25.75
19496.00	Peak	V	-	-	-61.29	-5.96	-9.54	39.75	73.98	-34.23

Table 7-19. Radiated Measurements

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 71 of 91

V 11.0 5/2025



Plot 7-65. Radiated Spurious Emissions above 1GHz (802.11g – Ch. 11)

Mode: 802.11g
Data Rate: 6Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
4924.00	Avg	V	-	-	-81.22	8.88	34.66	53.98	-19.32
4924.00	Peak	V	-	-	-69.23	8.10	45.87	73.98	-28.11
7386.00	Avg	V	101	230	-70.65	11.73	48.08	53.98	-5.90
7386.00	Peak	V	101	230	-57.85	11.73	60.88	73.98	-13.10
12310.00	Avg	H	-	-	-83.63	19.07	42.44	53.98	-11.54
12310.00	Peak	H	-	-	-72.53	19.07	53.54	73.98	-20.44

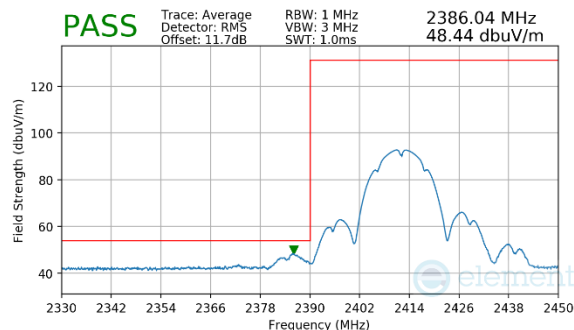
Table 7-20. Radiated Measurements

FCC ID: IPH-05170 IC: 1792A-05170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260040-04-IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 72 of 91

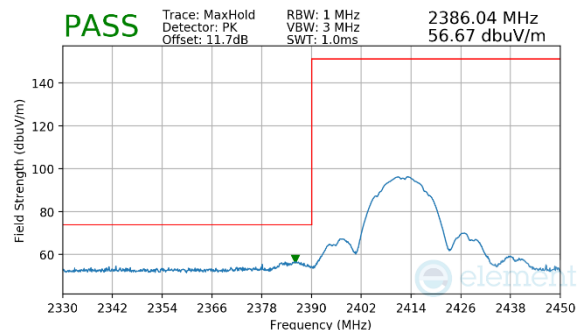
V 11.0 5/2025

7.8.2 Radiated Restricted Band Edge Measurements

Mode	802.11b
Data Rate	1Mbps
Distance of Measurement	3 Meters
Operating Frequency	2412MHz
Channel	1

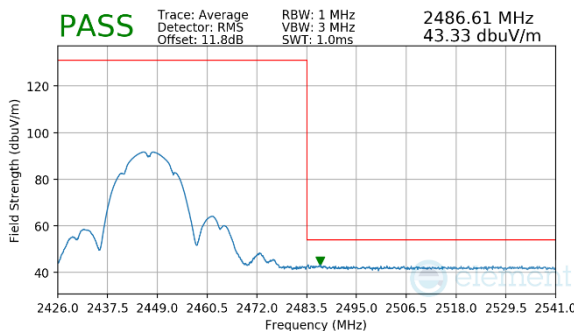


Plot 7-66 Radiated Restricted Lower Band Edge Measurement (Average)

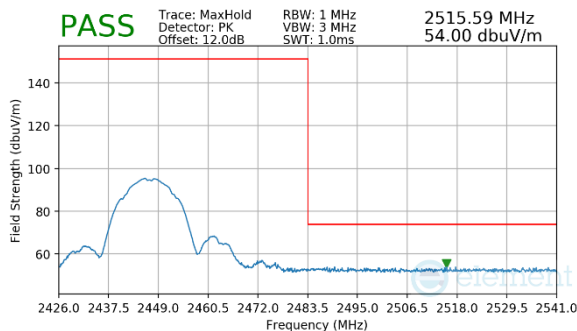


Plot 7-67 Radiated Restricted Lower Band Edge Measurement (Peak)

Mode	802.11b
Data Rate	1Mbps
Distance of Measurement	3 Meters
Operating Frequency	2447MHz
Channel	8



Plot 7-68 Radiated Restricted Upper Band Edge Measurement (Average)

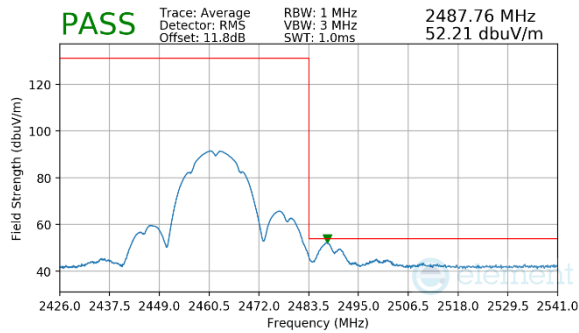


Plot 7-69 Radiated Restricted Upper Band Edge Measurement (Peak)

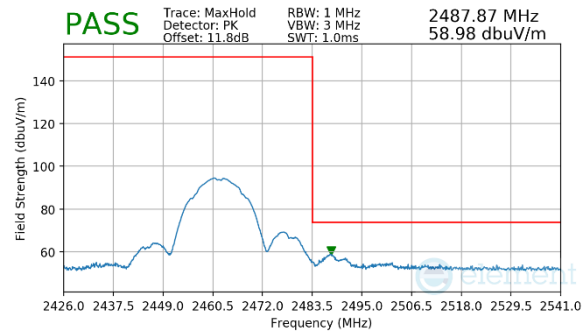
FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 73 of 91

V 11.0 5/2025

Mode	802.11b
Data Rate	1Mbps
Distance of Measurement	3 Meters
Operating Frequency	2462MHz
Channel	11

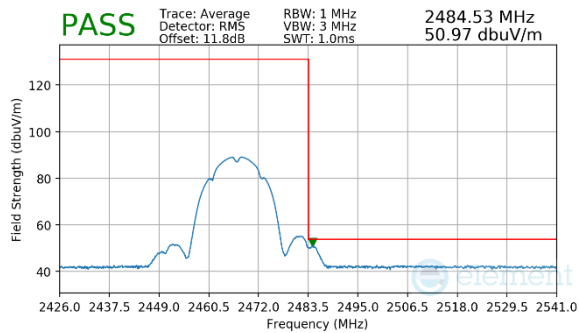


Plot 7-70 Radiated Restricted Upper Band Edge Measurement (Average)

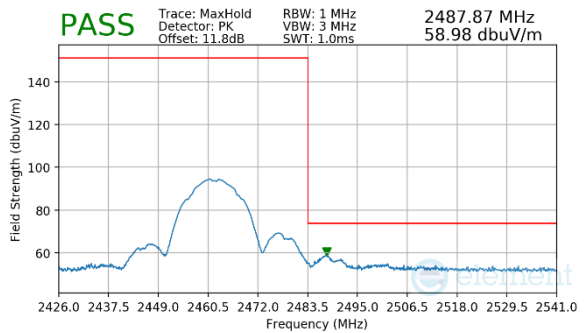


Plot 7-71 Radiated Restricted Upper Band Edge Measurement (Peak)

Mode	802.11b
Data Rate	1Mbps
Distance of Measurement	3 Meters
Operating Frequency	2467MHz
Channel	12



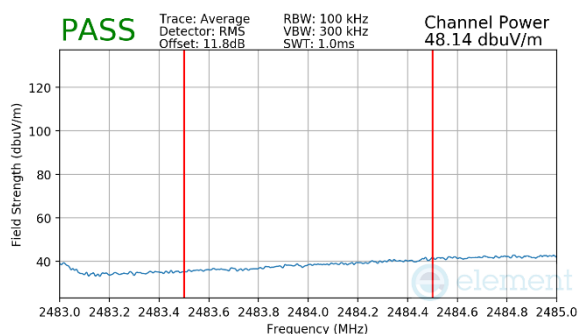
Plot 7-72 Radiated Restricted Upper Band Edge Measurement (Average)



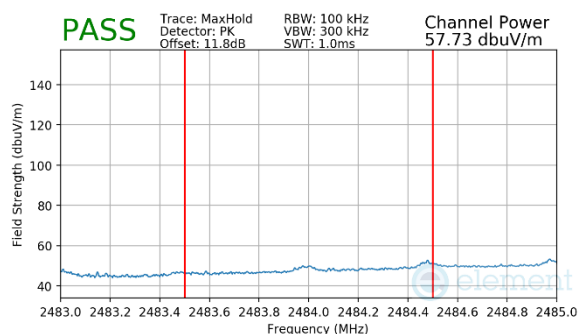
Plot 7-73 Radiated Restricted Upper Band Edge Measurement (Peak)

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 74 of 91

Mode	802.11b
Data Rate	1Mbps
Distance of Measurement	3 Meters
Operating Frequency	2472MHz
Channel	13



Plot 7-74 Radiated Restricted Upper Band Edge Measurement (Average)

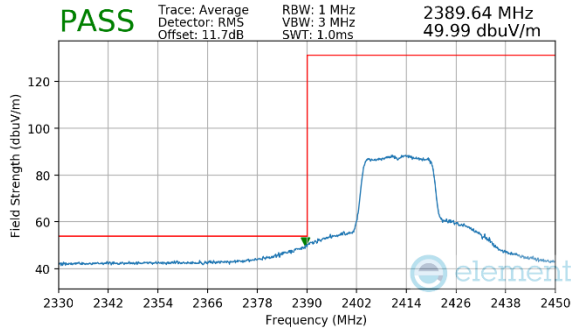


Plot 7-75 Radiated Restricted Upper Band Edge Measurement (Peak)

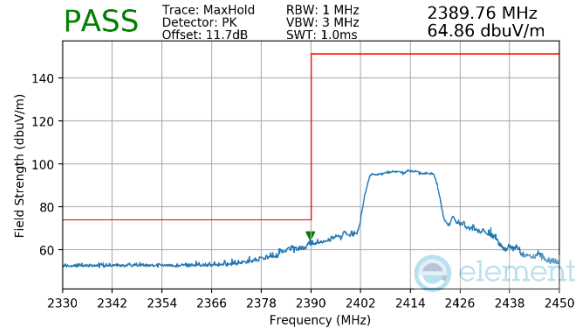
FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 75 of 91

V 11.0 5/2025

Mode	802.11g
Data Rate	6Mbps
Distance of Measurement	3 Meters
Operating Frequency	2412MHz
Channel	1

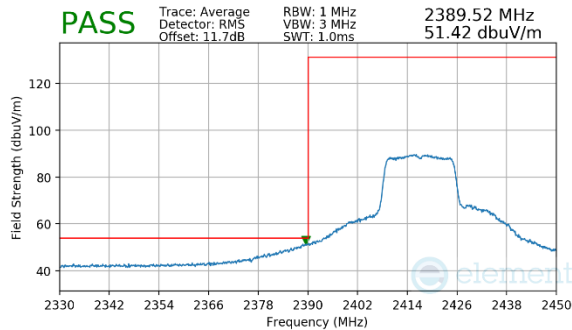


Plot 7-76 Radiated Restricted Lower Band Edge Measurement (Average)

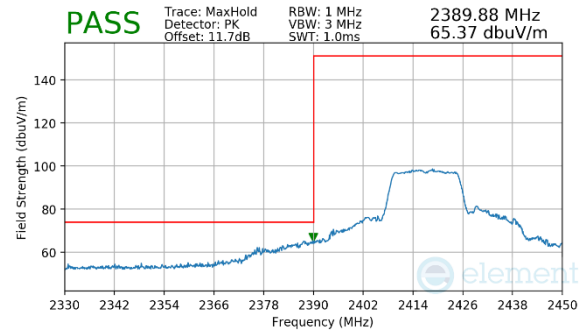


Plot 7-77 Radiated Restricted Lower Band Edge Measurement (Peak)

Mode	802.11g
Data Rate	6Mbps
Distance of Measurement	3 Meters
Operating Frequency	2417MHz
Channel	2



Plot 7-78 Radiated Restricted Lower Band Edge Measurement (Average)



Plot 7-79 Radiated Restricted Lower Band Edge Measurement (Peak)

FCC ID: IPH-05170 IC: 1792A-05170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260040-04.IPH	Test Dates: 03/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 76 of 91