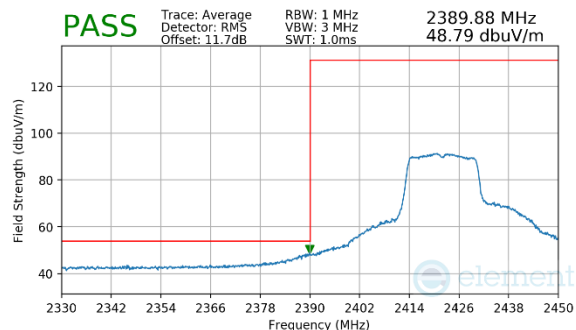
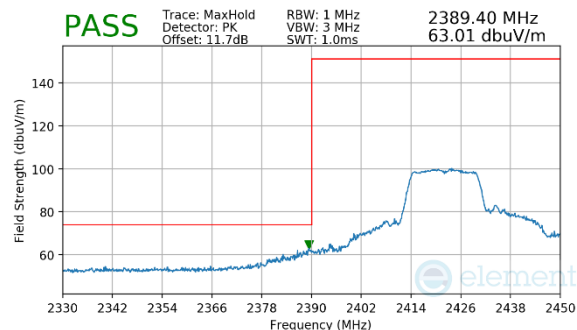


Mode	802.11g
Data Rate	6Mbps
Distance of Measurement	3 Meters
Operating Frequency	2422MHz
Channel	3

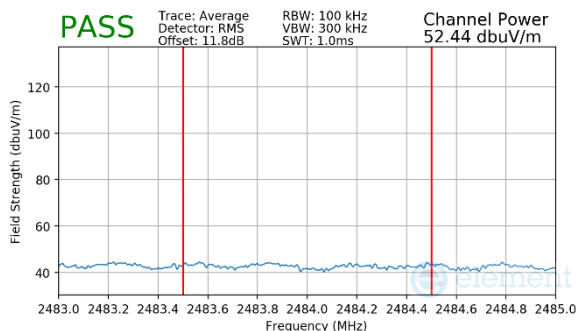


Plot 7-80 Radiated Restricted Lower Band Edge Measurement (Average)

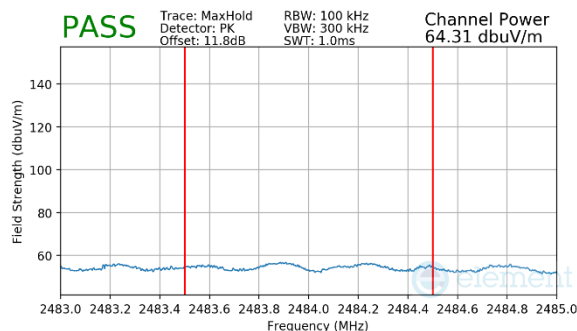


Plot 7-81 Radiated Restricted Lower Band Edge Measurement (Peak)

Mode	802.11g
Data Rate	6Mbps
Distance of Measurement	3 Meters
Operating Frequency	2457MHz
Channel	10



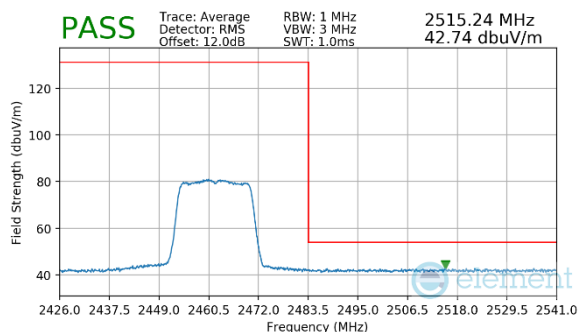
Plot 7-82 Radiated Restricted Upper Band Edge Measurement (Average)



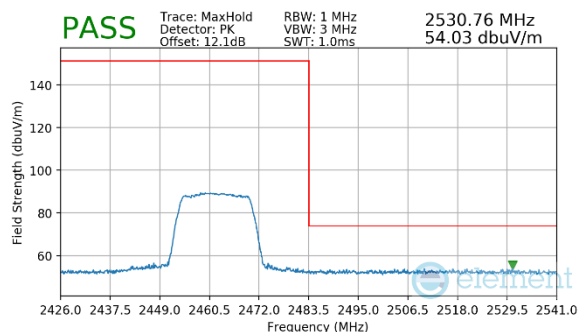
Plot 7-83 Radiated Restricted Upper Band Edge Measurement (Peak)

FCC ID: IPH-A5170 IC: 1792A-A5170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260039-10-R1-IPH	Test Dates: 02/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 77 of 94

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

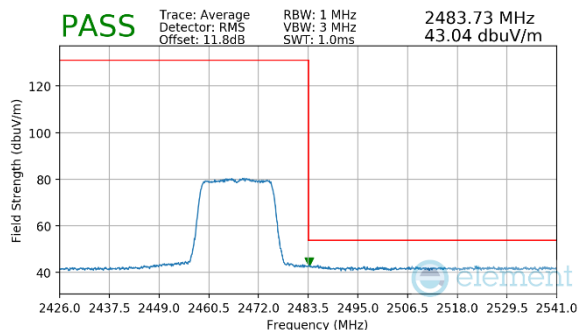


Plot 7-84 Radiated Restricted Upper Band Edge Measurement (Average)

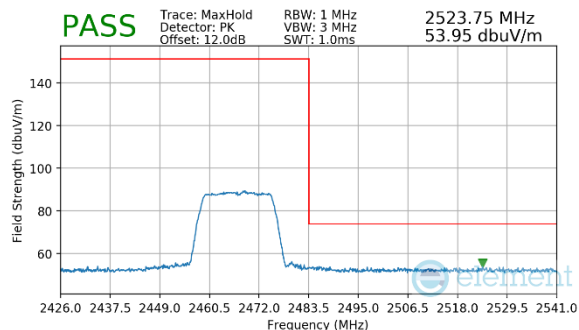


Plot 7-85 Radiated Restricted Upper Band Edge Measurement (Peak)

Mode	802.11g
Data Rate	6Mbps
Distance of Measurement	3 Meters
Operating Frequency	2467MHz
Channel	12



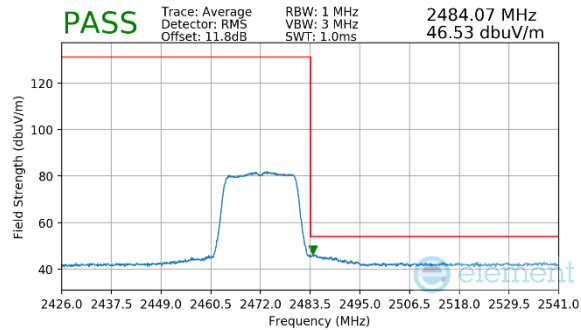
Plot 7-86 Radiated Restricted Upper Band Edge Measurement (Average)



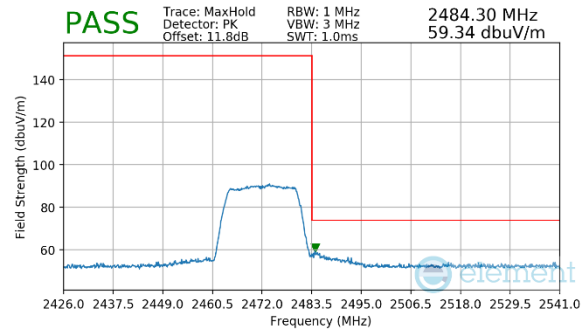
Plot 7-87 Radiated Restricted Upper Band Edge Measurement (Peak)

FCC ID: IPH-A5170 IC: 1792A-A5170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260039-10-R1-IPH	Test Dates: 02/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 78 of 94

Mode	802.11g
Data Rate	6Mbps
Distance of Measurement	3 Meters
Operating Frequency	2472MHz
Channel	13



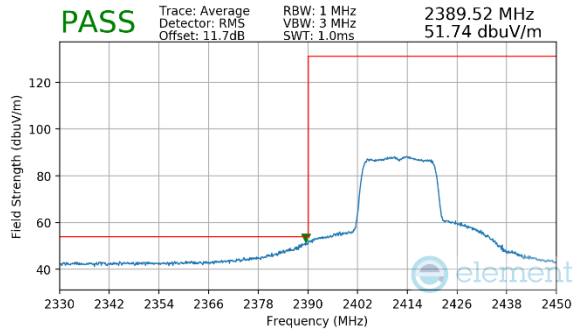
Plot 7-88 Radiated Restricted Upper Band Edge Measurement (Average)



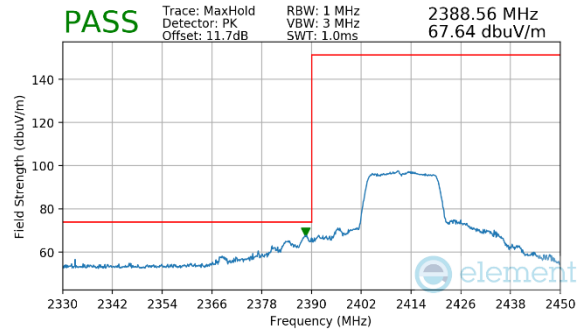
Plot 7-89 Radiated Restricted Upper Band Edge Measurement (Peak)

FCC ID: IPH-A5170 IC: 1792A-A5170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260039-10-R1.IPH	Test Dates: 02/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 79 of 94

Mode	802.11n
Data Rate	MCS0
Distance of Measurement	3 Meters
Operating Frequency	2412MHz
Channel	1

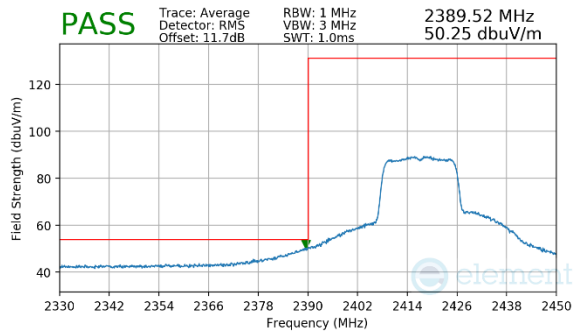


Plot 7-90 Radiated Restricted Lower Band Edge Measurement (Average)

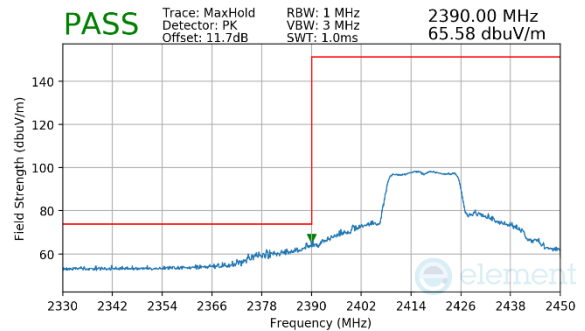


Plot 7-91 Radiated Restricted Lower Band Edge Measurement (Peak)

Mode	802.11n
Data Rate	MCS0
Distance of Measurement	3 Meters
Operating Frequency	2417MHz
Channel	2



Plot 7-92 Radiated Restricted Lower Band Edge Measurement (Average)

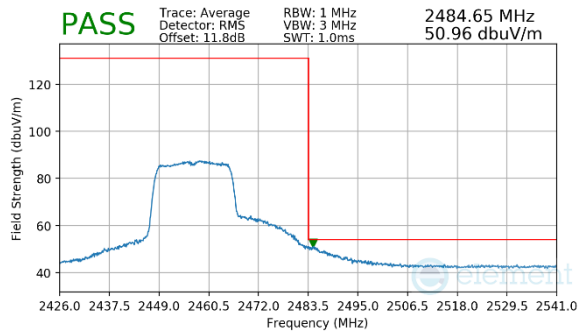


Plot 7-93 Radiated Restricted Lower Band Edge Measurement (Peak)

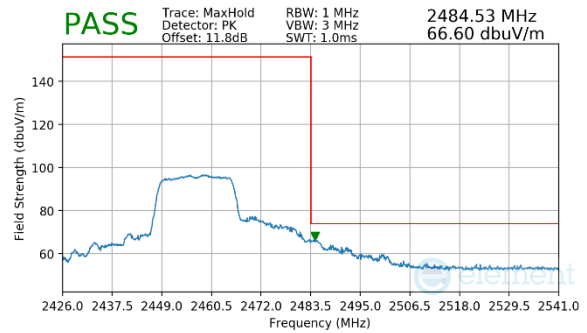
FCC ID: IPH-A5170 IC: 1792A-A5170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260039-10-R1.IPH	Test Dates: 02/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 80 of 94

V 11.0 5/2025

Mode	802.11n
Data Rate	MCS0
Distance of Measurement	3 Meters
Operating Frequency	2457MHz
Channel	10

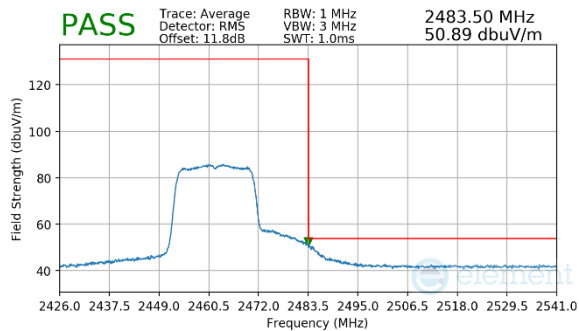


Plot 7-94 Radiated Restricted Upper Band Edge Measurement (Average)

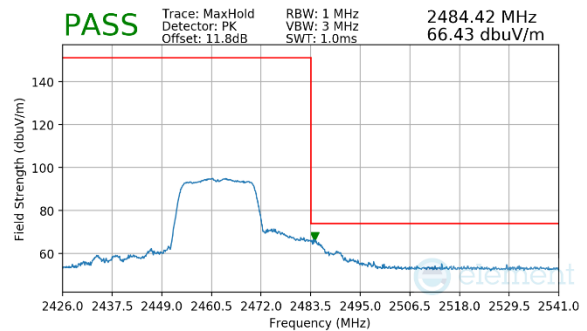


Plot 7-95 Radiated Restricted Upper Band Edge Measurement (Peak)

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



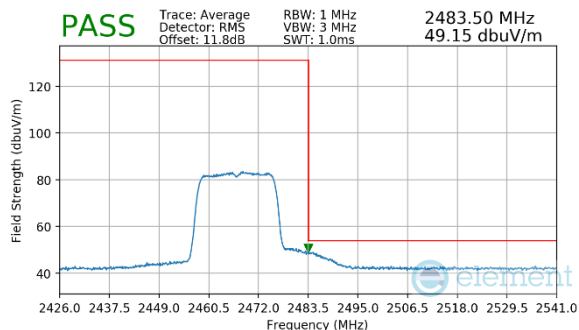
Plot 7-96 Radiated Restricted Upper Band Edge Measurement (Average)



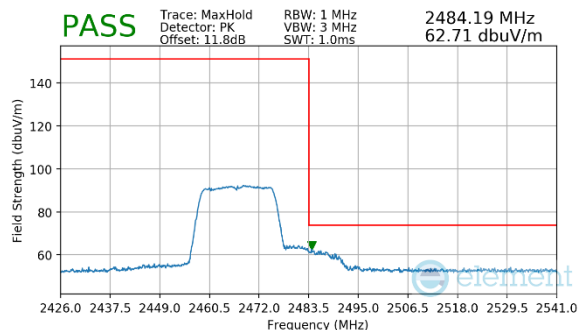
Plot 7-97 Radiated Restricted Upper Band Edge Measurement (Peak)

FCC ID: IPH-A5170 IC: 1792A-A5170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260039-10-R1-IPH	Test Dates: 02/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 81 of 94

Mode	802.11n
Data Rate	MCS0
Distance of Measurement	3 Meters
Operating Frequency	2467MHz
Channel	12

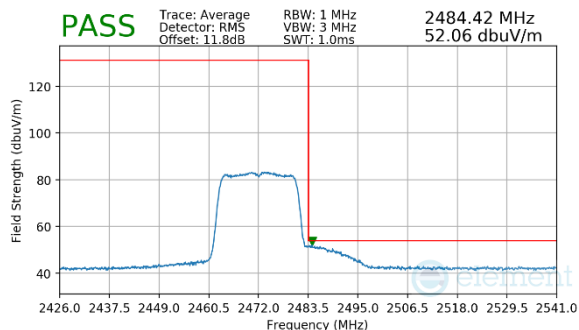


Plot 7-98 Radiated Restricted Upper Band Edge Measurement (Average)

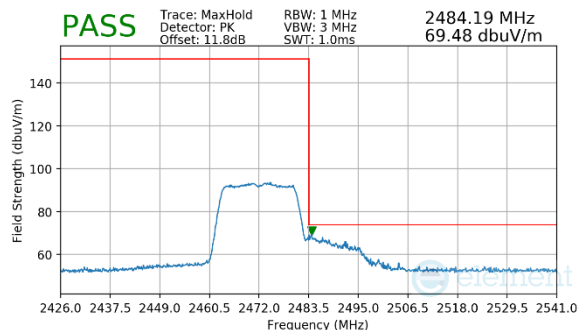


Plot 7-99 Radiated Restricted Upper Band Edge Measurement (Peak)

Mode	802.11n
Data Rate	MCS0
Distance of Measurement	3 Meters
Operating Frequency	2472MHz
Channel	13



Plot 7-100 Radiated Restricted Upper Band Edge Measurement (Average)



Plot 7-101 Radiated Restricted Upper Band Edge Measurement (Peak)

FCC ID: IPH-A5170 IC: 1792A-A5170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260039-10-R1-IPH	Test Dates: 02/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 82 of 94

7.9 Radiated Spurious Emissions – Below 1GHz

§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 7-21 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-21. Radiated Limits

Test Procedures Used

ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold

FCC ID: IPH-A5170 IC: 1792A-A5170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260039-10-R1.IPH	Test Dates: 02/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 83 of 94

V 11.0 5/2025

Test Setup

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

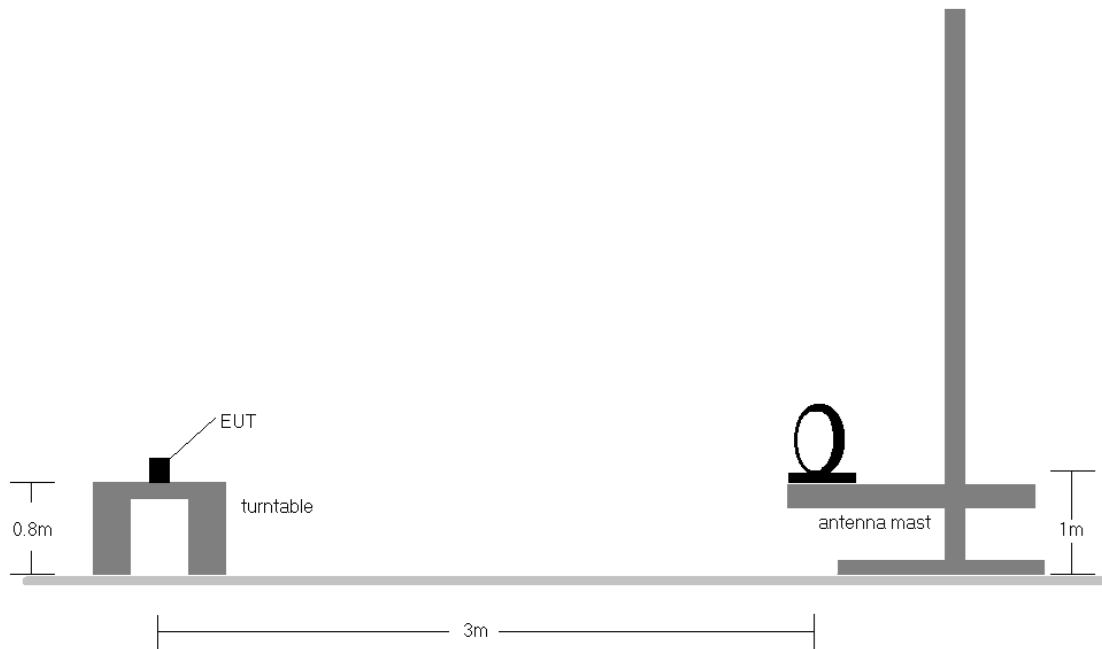


Figure 7-8. Radiated Test Setup < 30Mhz

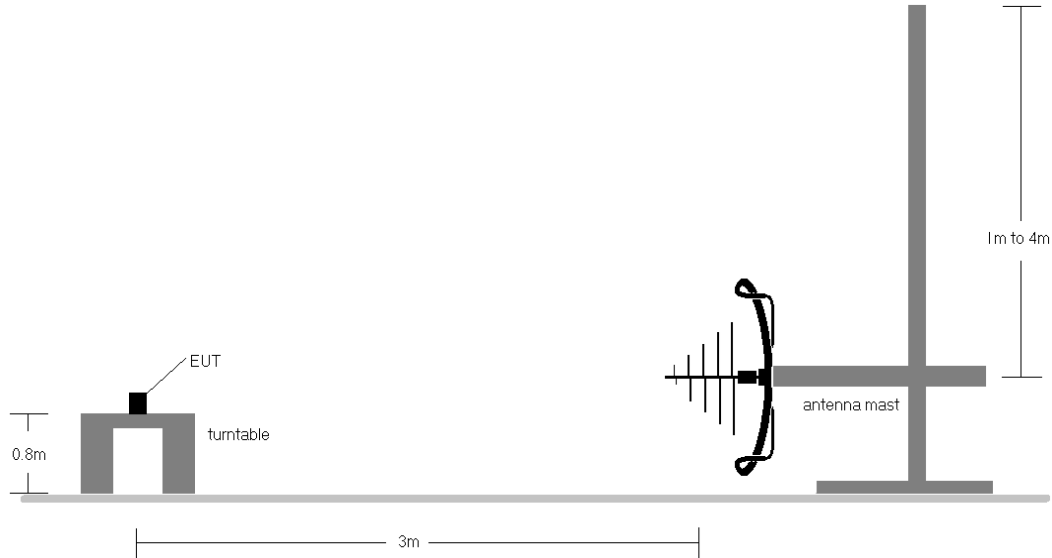


Figure 7-9. Radiated Test Setup < 1GHz

FCC ID: IPH-A5170 IC: 1792A-A5170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260039-10-R1.IPH	Test Dates: 02/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 84 of 94

V 11.0 5/2025

Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-21.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes. For below 30MHz the loop antenna was positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst case emissions.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector for emissions within 6dB of the limit.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
9. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
10. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification.
11. The unit was tested with all possible modes and only the highest emission is reported.
12. All antenna configurations were investigated and only the worst case is reported.

Sample Calculations

Determining Spurious Emissions Levels

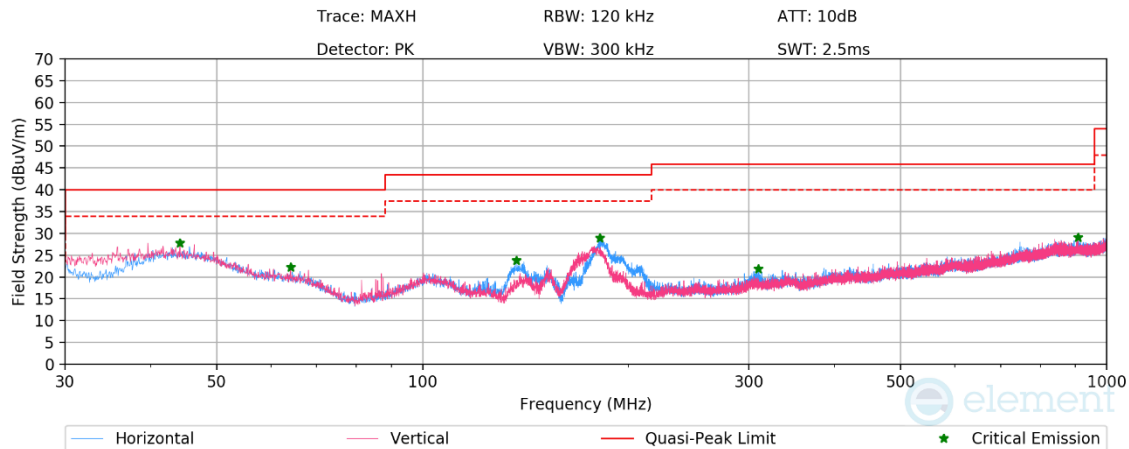
- Field Strength Level $[\text{dB}\mu\text{V/m}] = \text{Analyzer Level} [\text{dBm}] + 107 + \text{AFCL} [\text{dB/m}]$
- $\text{AFCL} [\text{dB/m}] = \text{Antenna Factor} [\text{dB/m}] + \text{Cable Loss} [\text{dB}] - \text{Preamplifier Gain} [\text{dB}]$
- $\text{Margin} [\text{dB}] = \text{Field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

FCC ID: IPH-A5170 IC: 1792A-A5170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260039-10-R1.IPH	Test Dates: 02/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 85 of 94

V 11.0 5/2025

Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-102. Radiated Spurious Emissions below 1GHz 11b Ch.11, with AC/DC Adaptor

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
44.16	Max-Peak	V	100	-63.86	-15.35	27.79	40.00	-12.21
64.14	Max-Peak	V	200	-66.66	-18.11	22.22	40.00	-17.78
136.98	Max-Peak	H	200	-61.89	-21.26	23.85	43.50	-19.65
181.63	Max-Peak	H	200	-58.58	-19.41	29.01	43.50	-14.49
309.55	Max-Peak	H	100	-70.00	-15.14	21.86	46.00	-24.14
907.90	Max-Peak	V	100	-73.92	-4.04	29.04	46.00	-16.96

Table 7-22. Radiated Spurious Emissions below 1GHz 11b Ch.11, with AC/DC Adaptor

FCC ID: IPH-A5170 IC: 1792A-A5170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260039-10-R1.IPH	Test Dates: 02/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 86 of 94

V 11.0 5/2025

7.10 AC Line-Conducted Emissions Measurement

§15.207; RSS-Gen [8.8]

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN 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 AC Line conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

Frequency of emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-23. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10:2020 + COR. 1:2023 + C63.10A:2024 + ERRATA TO C63.10A:2024, Subclause 6.2

Test Settings

Quasi-Peak Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Average Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

FCC ID: IPH-A5170 IC: 1792A-A5170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260039-10-R1.IPH	Test Dates: 02/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 87 of 94

V 11.0 5/2025

Test Setup

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

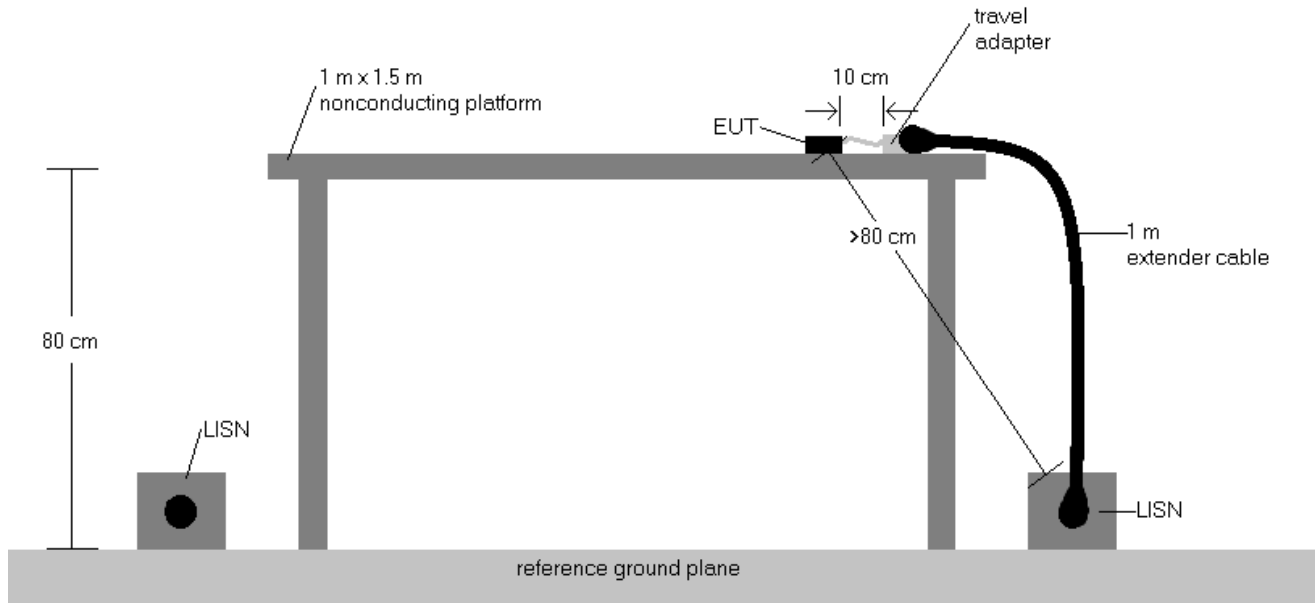


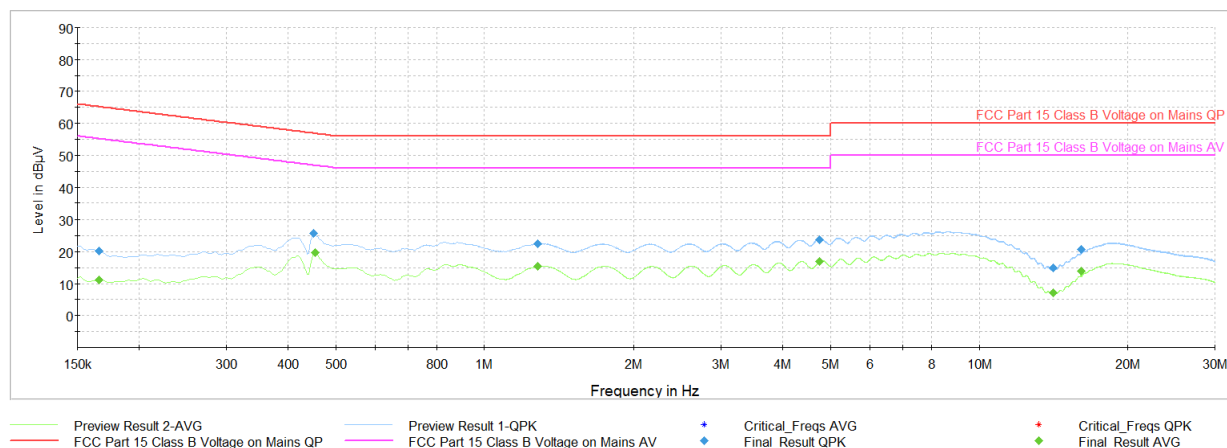
Figure 7-10. Test Instrument & Measurement Setup

Test Notes

- All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
- Both configurations below were investigated, and the worst case has been reported.
 - EUT powered by AC/DC adaptor via USB-C cable with wire charger
- The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
- $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
- $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
- $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
- Traces shown in plot are made using quasi peak and average detectors.
- Deviations to the Specifications: None.
- The unit was tested with all possible modes and only the highest emission is reported.

FCC ID: IPH-A5170 IC: 1792A-A5170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260039-10-R1.IPH	Test Dates: 02/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 88 of 94

V 11.0 5/2025



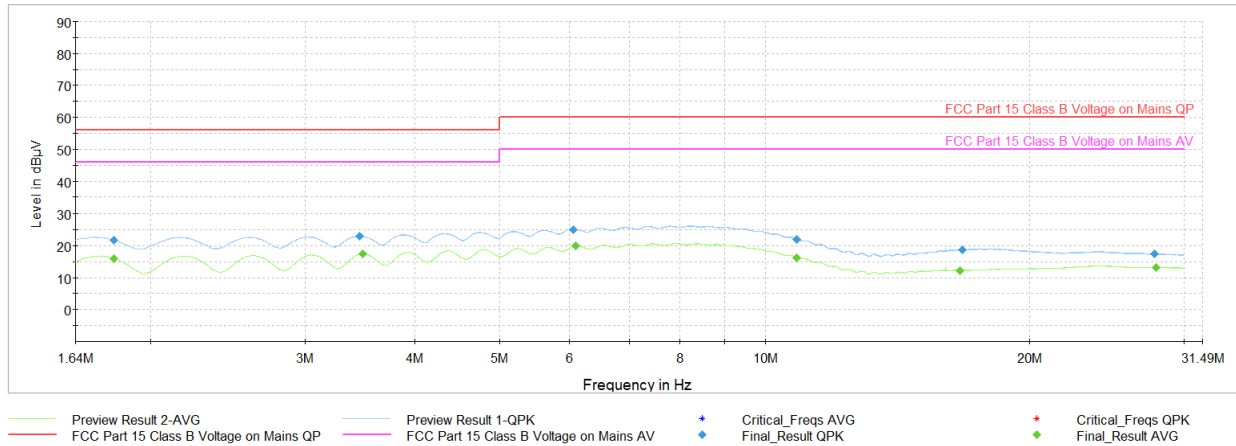
Plot 7-103. AC Line Conducted Plot with 11b Ch.11 (L1, with AC/DC Adaptor)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.166	FINAL	—	11.25	55.17	-43.92	L1	ON
0.166	FINAL	20.2	—	65.17	-44.97	L1	ON
0.452	FINAL	25.7	—	56.85	-31.14	L1	ON
0.454	FINAL	—	19.68	46.81	-27.12	L1	ON
1.282	FINAL	22.6	—	56.00	-33.43	L1	ON
1.284	FINAL	—	15.50	46.00	-30.50	L1	ON
4.745	FINAL	23.8	—	56.00	-32.22	L1	ON
4.756	FINAL	—	17.07	46.00	-28.93	L1	ON
14.111	FINAL	15.1	—	60.00	-44.94	L1	ON
14.114	FINAL	—	7.08	50.00	-42.92	L1	ON
16.060	FINAL	—	13.99	50.00	-36.01	L1	ON
16.060	FINAL	20.8	—	60.00	-39.23	L1	ON

Table 7-24. AC Line Conducted Data with 11b Ch.11 (L1, with AC/DC Adaptor)

FCC ID: IPH-A5170 IC: 1792A-A5170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260039-10-R1-IPH	Test Dates: 02/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 89 of 94

V 11.0 5/2025



Plot 7-104. AC Line Conducted Plot with 11b Ch.11 (N, with AC/DC Adaptor)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
1.815	FINAL	—	16.05	46.00	-29.95	N	ON
1.815	FINAL	21.7	—	56.00	-34.31	N	ON
3.462	FINAL	23.1	—	56.00	-32.95	N	ON
3.487	FINAL	—	17.42	46.00	-28.58	N	ON
6.068	FINAL	25.1	—	60.00	-34.87	N	ON
6.097	FINAL	—	19.91	50.00	-30.09	N	ON
10.874	FINAL	22.0	—	60.00	-37.98	N	ON
10.874	FINAL	—	16.16	50.00	-33.84	N	ON
16.679	FINAL	—	12.27	50.00	-37.73	N	ON
16.762	FINAL	18.8	—	60.00	-41.20	N	ON
27.787	FINAL	17.4	—	60.00	-42.60	N	ON
27.857	FINAL	—	13.11	50.00	-36.89	N	ON

Table 7-25. AC Line Conducted Data with 11b Ch.11 (N, with AC/DC Adaptor)

FCC ID: IPH-A5170 IC: 1792A-A5170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260039-10-R1.IPH	Test Dates: 02/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 90 of 94

V 11.0 5/2025

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Garmin Portable Digital Transceiver FCC ID: IPH-A5170, IC: 1792A-A5170** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

FCC ID: IPH-A5170 IC: 1792A-A5170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260039-10-R1.IPH	Test Dates: 02/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 91 of 94

V 11.0 5/2025

9.0 APPENDIX A – DATA REFERENCING SPOT-CHECKS

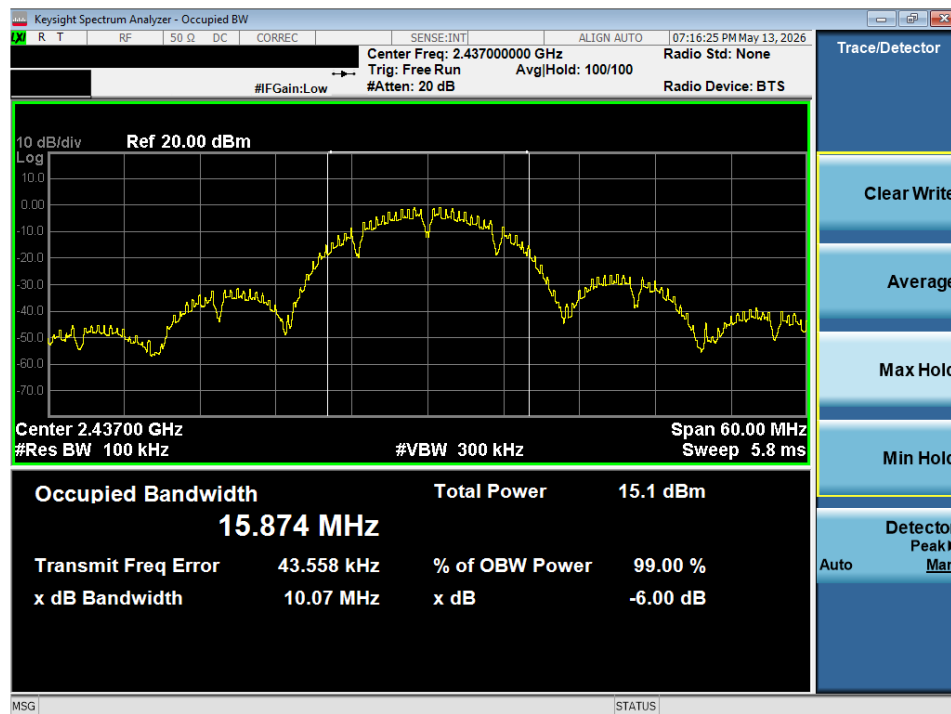
The spot-check data presented in this section was measured on the variant model following the guidance of the FCC's Data Referencing guidance in KDB 484596 D01 v03. Each spot-check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device. For the worst-case RSE data, the measurement is determined by an actual emission and not by noise floor.

All test cases were performed to verify the variant EUT is still in compliance with the spot-checked results to the reference device and was performed using the guidance of ANSI C63.10-2020.

Notes

1. Each spot check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device.

Conducted Spot-Checks – AA5170

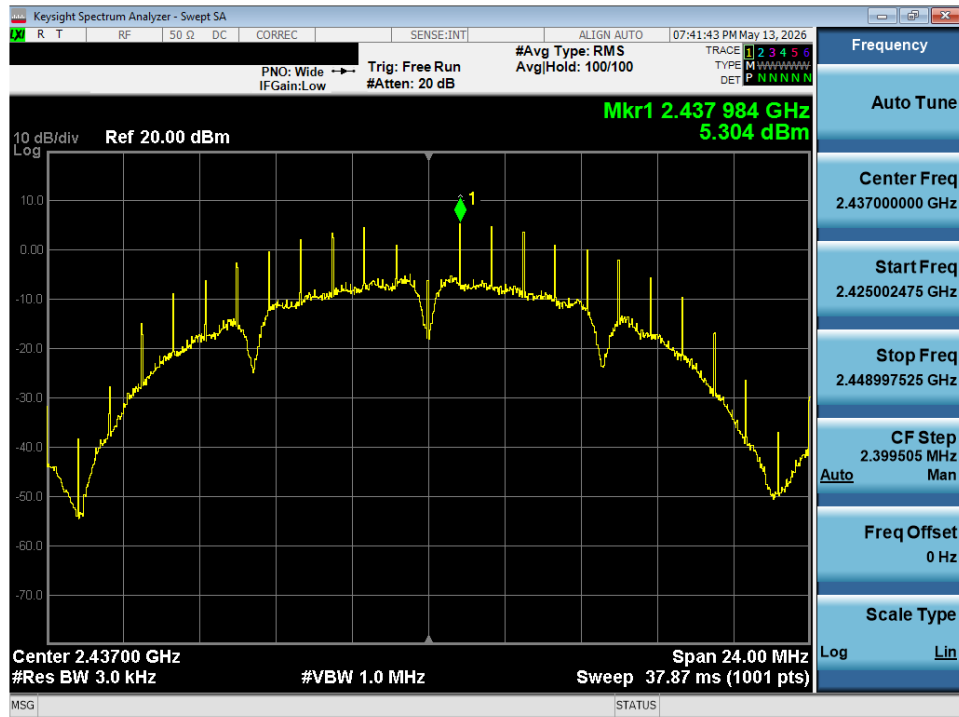


Plot 9-1. 6dB Bandwidth Plot (Spot-check)

FCC ID: IPH-A5170 IC: 1792A-A5170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260039-10-R1.IPH	Test Dates: 02/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 92 of 94

V 11.0 5/2025

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Plot 9-2. Power Spectral Density Plot (Spot-check)

FCC ID: IPH-A5170 IC: 1792A-A5170	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2605260039-10-R1.IPH	Test Dates: 02/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 93 of 94

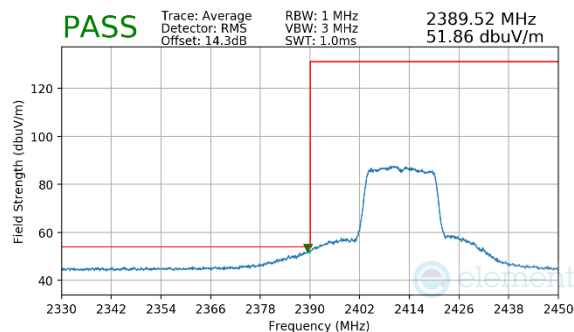
V 11.0 5/2025

Radiated Spot-Checks – AA5170

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]
7386.00	Avg	V	101.00	246.00	-68.91	11.06	49.15	53.98	-4.83
7386.00	Peak	V	101.00	246.00	-62.70	11.06	55.36	73.98	-18.62

Table 9-1. RSE Measurements (Spot-check)

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



Plot 9-3. Radiated Restricted Lower Band Edge Measurement (Average) – Spot-check

Results

FCC Rules	Test Item	Test Case	Units	Limit	Reference Model: IPH-0	Variant Model: IPH-A	Deviation (dB)	Max Deviation (dB)	Pass/Fail
15.247(b)(3)	Conducted Output Power	802.11b Ch.1 - AVG	dBm	30	13.66	12.61	-1.05	3	PASS
15.247(e)	Power Spectral Density	802.11b Ch.6	dBm/3kHz	8	3.95	5.304	1.35	3	PASS
2.1049, 15.247(a)(2)	6dB Bandwidth	802.11b Ch.6	MHz	0.5	10.09	10.07	-0.02	N/A	PASS
15.209	Radiated Spurious Emissions	802.11b Ch.11 - 7386MHz - Average	dBuV/m	53.98	46.77	49.15	2.38	3	PASS
15.209	Radiated Band Edge Emissions	802.11g Ch.1 - Average	dBm	53.98	49.99	51.86	1.87	3	PASS

Table 9-2. Summary of Spot-checks

- END OF TEST REPORT -

FCC ID: IPH-A5170 IC: 1792A-A5170		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2605260039-10-R1.IPH	Test Dates: 02/05/2026 - 06/12/2026	EUT Type: Portable Digital Transceiver	Page 94 of 94

V 11.0 5/2025