

Prüfbericht-Nr.: Test report no.:	CN26WL0Y 001	Auftrags-Nr.: Order no.:	168582447	Seite 1 von 23 Page 1 of 23	
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2025-11-13		
Auftraggeber: Client:	Xiamen Hanin Co.,Ltd. Room 305A, Angye Building, Pioneering Park, Torch High-tech Zone, Xiamen City, Fujian Province, P.R. China.				
Prüfgegenstand: Test item:	Barcode Printer, Label Printer, Barcode Label Printer, Thermal Barcode Printer				
Bezeichnung / Typ-Nr.: Identification / Type no.:	iD888W, HiD428W, iD400W, DT400W, DT430W, DT400W, DT430W, SD400W, SD430W, ND400W, ND430W, ED400W, ED430W, JD400W, JD430W, D40W, D43W, SD401W, SD603W, ND400W, iD430W, XD400W, XD430W, iD430W, TD400W, TD430W, FD888W, D8W, FD400W, FD430W, SD400W, V400W, V888W, V410W, V430W, E888W, S888W, N888W, HD200W, HD888W, iD870PW, iD700PW, iD720PW, iD710PW, HD700PW, SD700PW, ND700PW, ED700PW, WD700PW, J-700PW, JD887PW, XD887PW, HD887PW, FJ-700PW, XD700PW, JD700PW, SN700PW, ND710PW, ND720PW, HD710PW, HD720PW, SD710PW, SD720PW, JF700PW, JS700PW, JE700PW, JW700PW, JN700PW				
Auftrags-Inhalt: Order content:	Test Report				
Prüfgrundlage: Test specification:	CFR Title 47 FCC Part 15: Subpart C Section 15.247				
Wareneingangsdatum: Date of sample receipt:	2025-11-15	Please refer to photo documents			
Prüfmuster-Nr.: Test sample no.:	A004127548-001~002				
Prüfzeitraum: Testing period:	2025-11-16 - 2026-01-13				
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.				
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.				
Prüfergebnis*: Test result*:	Pass				
geprüft von: tested by:			genehmigt von: authorized by:		
Datum: Date:	2026-02-04	Signed by: Jonathan Li		Ausstellungsdatum: Issue date:	2026-02-04
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert	
Sonstiges / Other:	FCC ID: 2AUTE-ID888W This report is for 2.4GHz Wi-Fi.				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged				
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet				
* Legend:	P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
<p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</p> <p><i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>					

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Anmerkungen
Remarks

1	<p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfbedingungen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>
2	<p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: go.tuv.com/digital-signature</p> <p><i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: go.tuv.com/digital-signature</i></p>
3	<p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>
4	<p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p>

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 99% BANDWIDTH

RESULT: Pass

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.8 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of 2.4GHz Wi-Fi

Appendix B: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, China

FCC Accreditation Designation No.: CN1260

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

☐ Radio Spectrum Testing (TS8997-R&S)						
Equip. No.	Description	Manufacturer	Model	Serial No.	Calibrated Date (DD.MM.YYYY)	Calibrated until (DD.MM.YYYY)
G1825794	Wireless Connectivity Tester	R&S	CMW270	101375	23.09.2025	22.09.2026
G1825795	Signal Analyzer	R&S	FSV 40	101441	23.09.2025	22.09.2026
G1825796	Vector Signal Generator	R&S	SMBV100A	263301	30.10.2025	29.10.2026
G1825797	Signal Generator	R&S	SMB100A	115186	23.09.2025	22.09.2026
G1825798	OSP	R&S	OSP 150	101017	30.10.2025	29.10.2026
G1825799	Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A	N/A
G1825800	Test Software	R&S	WMS32 (V11.00.00)	N/A	N/A	N/A
G1825801	Power Meter	R&S	NRP2	107105	30.10.2025	29.10.2026
G1829620	Power Sensor	R&S	NRP-Z81	105677	23.09.2025	22.09.2026
9039455	High Low Temperature Test Chamber	KOWINTEST	TH-30FJX	KW-21040497	23.09.2025	22.09.2026
G1826431	Shielding Room	Albatross	SR1	APC17151-SR1	14.09.2024	13.09.2027
☐ Unwanted Emission Testing (TS9975)						
Equip. No.	Description	Manufacturer	Model	Serial No.	Calibrated Date (DD.MM.YYYY)	Calibrated until (DD.MM.YYYY)
G1826021	EMI Test Receiver	R&S	ESR 7	102021	22.09.2025	21.09.2026
G1826023	Signal Analyzer	R&S	FSV 40	101439	22.09.2025	21.09.2026
G1826024	System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
G1826025	Filterbank	R&S	Wlan	100759	22.09.2025	21.09.2026
G1826026	OSP	R&S	OSP 120	102040	N/A	N/A

G1826028	Pre-amplifier	R&S	SCU08F1	08320031	22.09.2025	21.09.2026
G1826029	Amplifier	R&S	SCU-18F	180070	22.09.2025	21.09.2026
G1826030	Amplifier	R&S	SCU40A	100475	22.09.2025	21.09.2026
G1826031	Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	28.09.2024	27.09.2026
G1826032	Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	28.09.2024	27.09.2026
G1826033	Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	28.09.2024	27.09.2026
G1826034	Active Loop Antenna	Schwarzbeck	FMZB 1513	302	28.09.2024	27.09.2026
G1826036	Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
G1826037	Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
G1826433	3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151 -SAC	14.09.2024	13.09.2027

Conducted emission

Equip. No.	Equipment	Manufacturer	M/N	S/N	Calibrated Until
GC-SZ 004632	EMI Test Receiver	R&S	ESR3	102680	2026-02-09
GC-SZ 001010	Artificial Mains Network	R&S	ENV216	102333	2026-07-18
GC-SZ 004633	Artificial Mains Network	R&S	ENV216	101445	2026-02-09
G1825091	EMC32 Test Software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	±4.17 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.70 dB / ± 3.30 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The Product is a Barcode Printer with 2.4GHz/5.2G/5.8G Wi-Fi functions.

According to the declaration of the applicant, the schematics, PCB layout and electronic components are identical, only the model no. is different for market strategy.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Description
Kind of Equipment	Barcode Printer, Label Printer, Barcode Label Printer, Thermal Barcode Printer
Type Designation	iD888W, HID428W, iD400W, DT400W, DT430W, DT400W, DT430W, SD400W, SD430W, ND400W, ND430W, ED400W, ED430W, JD400W, JD430W, D40W, D43W, SD401W, SD603W, ND400W, iD430W, XD400W, XD430W, iD430W, TD400W, TD430W, FD888W, D8W, FD400W, FD430W, SD400W, V400W, V888W, V410W, V430W, E888W, S888W, N888W, HD200W, HD888W, iD870PW, iD700PW, iD720PW, iD710PW, HD700PW, SD700PW, ND700PW, ED700PW, WD700PW, J-700PW, JD887PW, XD887PW, HD887PW, FJ-700PW, XD700PW, JD700PW, SN700PW, ND710PW, ND720PW, HD710PW, HD720PW, SD710PW, SD720PW, JF700PW, JS700PW, JE700PW, JW700PW, JN700PW
Operating Voltage	Adapter operated (24Vdc, 2.5A)
Test Voltage	AC 120V, 50Hz
Operating Temperature Range	0°C ~ +40 °C
Technical Specification of 2.4GHz Wi-Fi	
Frequency Range	2412 – 2462 MHz for 802.11b/g/n(HT20) 2422 – 2452 MHz for 802.11n(HT40)
Type of Modulation	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM)
Data Rate	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0~MCS 7 for 802.11n(HT20/40) MCS0~MCS 11 for 802.11ax(HE20/40)
Channel Number	11 channels for 802.11b/g/n(HT20)/ax(HE20) 7 channels for 802.11n(HT40)/ax(HE40)
Channel Separation	5 MHz
Antenna Type	Integral Antenna
Antenna Number	1Tx1Rx
Antenna Gain	-1.56 dBi (Provided by the Client)

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

Table 4: RF Channel and Frequency of Wi-Fi 802.11 b/g/n

RF Channel	802.11 b/g/n(HT20)	802.11 n(HT40)
	Frequency (MHz)	Frequency (MHz)
01	2412	/
02	2417	/
03	2422	2422
04	2427	2427
05	2432	2432
06	2437	2437
07	2442	2442
08	2447	2447
09	2452	2452
10	2457	/
11	2462	/

Test frequencies are lowest channel: 2412 MHz, middle channel: 2437 MHz and highest channel: 2462 MHz for 802.11b/g/n(HT20)

Test frequencies are lowest channel: 2422 MHz, middle channel: 2437 MHz and highest channel: 2452 MHz for 802.11n(HT40)

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Wi-Fi 802.11 b/g/n wireless transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, Normal operation +2.4GHz Wi-Fi
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- ID Label and Location Info
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10:2020 and ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024

According to clause 3.1, all tests were performed on model iD888W in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 5: Auxiliary Equipment Used during Test

Description	Manufacturer	Model	S/N
Portable Laptop	Lenovo	ThinkPad T480	10Q67059

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

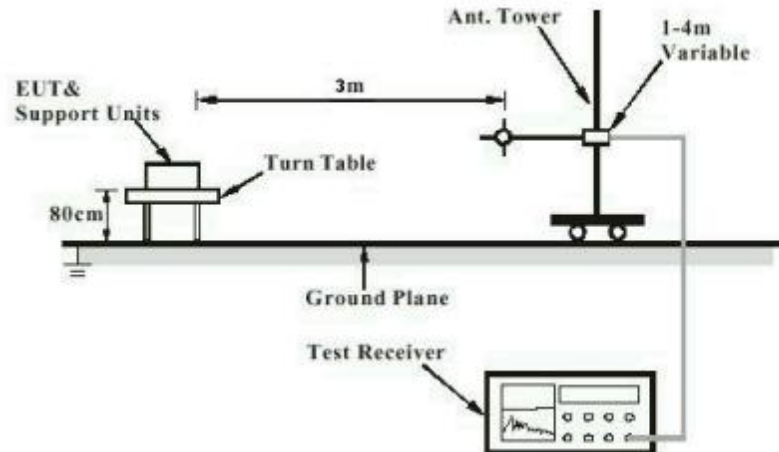


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

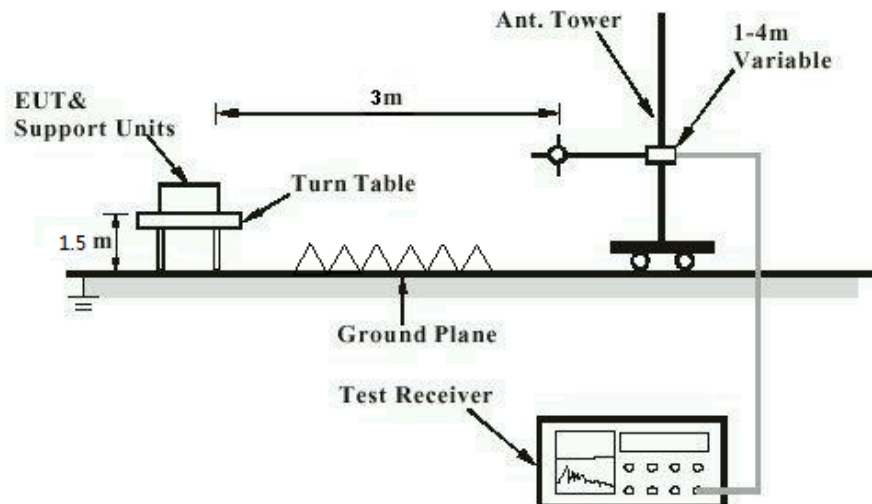


Diagram of Measurement Configuration for Mains Conduction Measurement

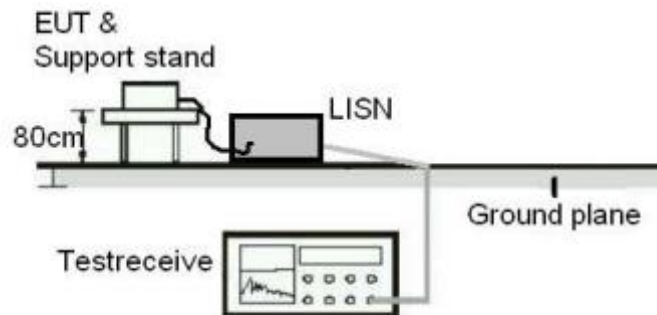
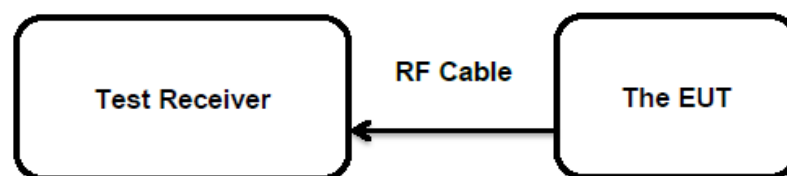


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203

According to the manufacturer declared, the EUT have one antenna, permanent attachment and no consideration of replacement, refer to section 3.2 for details.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 Maximum Peak Conducted Output Power

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(b)(3)
Basic standard : ANSI C63.10:2020 and ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits : 1.0 Watts
Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-11-16 - 2026-01-13
Input voltage : AC 120V, 60Hz
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 25.4 °C
Relative humidity : 54 %
Atmospheric pressure : 101 kPa

For details refer to following test result.

Table 6: Test Result of Maximum Peak Conducted Output Power

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(W)	
802.11b	2412	19.7	0.0933	< 1.0
	2437	19.9	0.0977	
	2462	19.9	0.0977	
802.11g	2412	20.7	0.1175	
	2437	21.0	0.1259	
	2462	20.6	0.1148	
802.11n20	2412	20.6	0.1148	
	2437	20.9	0.123	
	2462	20.6	0.1148	
802.11n40	2422	20.9	0.123	
	2437	20.9	0.123	
	2452	20.6	0.1148	
Maximum Measured Value		20.9	0.1259	< 1.0

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): -1.56 dBi

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5.1.3 Conducted Power Spectral Density

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(e)
Basic standard	: ANSI C63.10:2020 and ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: < 8 dBm / 3kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-11-16 - 2026-01-13
Input voltage	: AC 120V, 60Hz
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25.4 °C
Relative humidity	: 54 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.4 6dB Bandwidth

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(a)(2)
Basic standard : ANSI C63.10:2020 and ANSI C63.10:2020+Cor. 1:2023+
C63.10a:2024
Limits : > 500 KHz
Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-11-16 - 2026-01-13
Input voltage : AC 120V, 60Hz
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 25.4 °C
Relative humidity : 54 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

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5.1.5 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(a)
Basic standard : ANSI C63.10:2020 and ANSI C63.10:2020+Cor. 1:2023+
C63.10a:2024
Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-11-16 - 2026-01-13
Input voltage : AC 120V, 60Hz
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 25.4 °C
Relative humidity : 54 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

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5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(d)
Basic standard	: ANSI C63.10:2020 and ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-11-16 - 2026-01-13
Input voltage	: AC 120V, 60Hz
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 25.4 °C
Relative humidity	: 54 %
Atmospheric pressure	: 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix A.

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5.1.7 Radiated Spurious Emission

RESULT:**Pass****Test Specification**

Test standard : FCC Part 15.247(d) & FCC Part 15.205
Basic standard : ANSI C63.10:2020 and ANSI C63.10:2020+Cor. 1:2023+
C63.10a:2024
Limits : Refer to 15.209(a) of FCC part 15.247(d)
Kind of test site : 3m Semi-anechoic Chamber

Test Setup

Date of testing : 2025-11-16 - 2026-01-13
Input voltage : AC 120V, 60Hz
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : Refer to test result
Relative humidity : Refer to test result
Atmospheric pressure : 101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. All configurations tested for both MIMO and SISO, only worst-case mode data reported.

For the measurement records, refer to the appendix A.

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Test Report No.:

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5.1.8 Conducted Emission on AC Mains

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.207(a)
Basic standard	: ANSI C63.10:2020 and ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-11-16 - 2026-01-13
Input voltage	: AC 120V, 60Hz
Operation mode	: B
Earthing	: Not connected
Ambient temperature	: 24.9 °C
Relative humidity	: 52.1 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

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Appendix A: Test Results of 2.4GHz Wi-Fi

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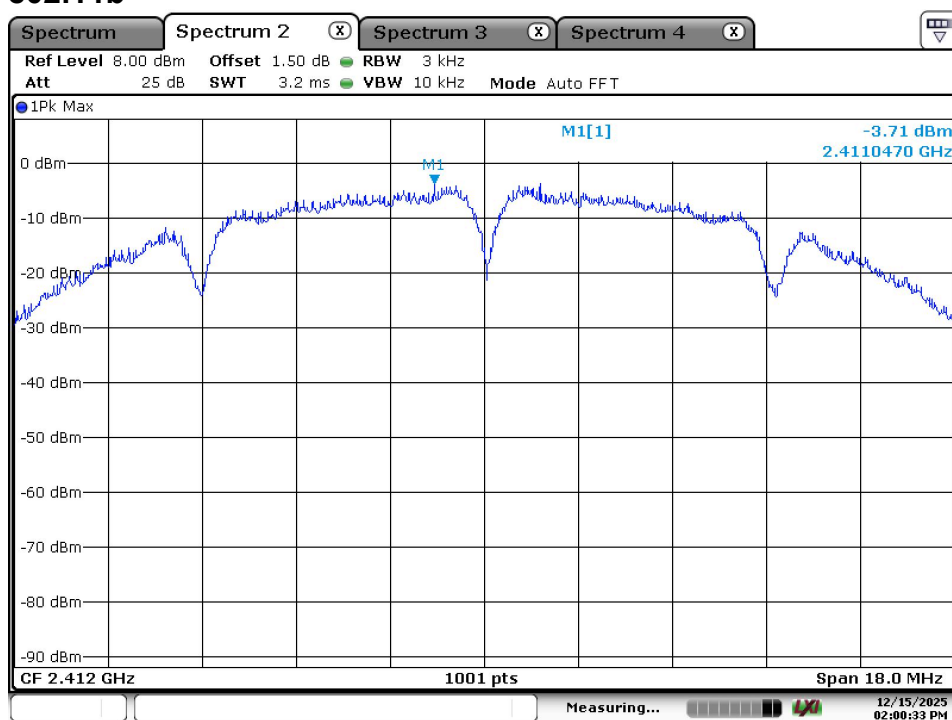
Appendix A.1: Test Results of CONDUCTED POWER SPECTRAL DENSITY

Test Result

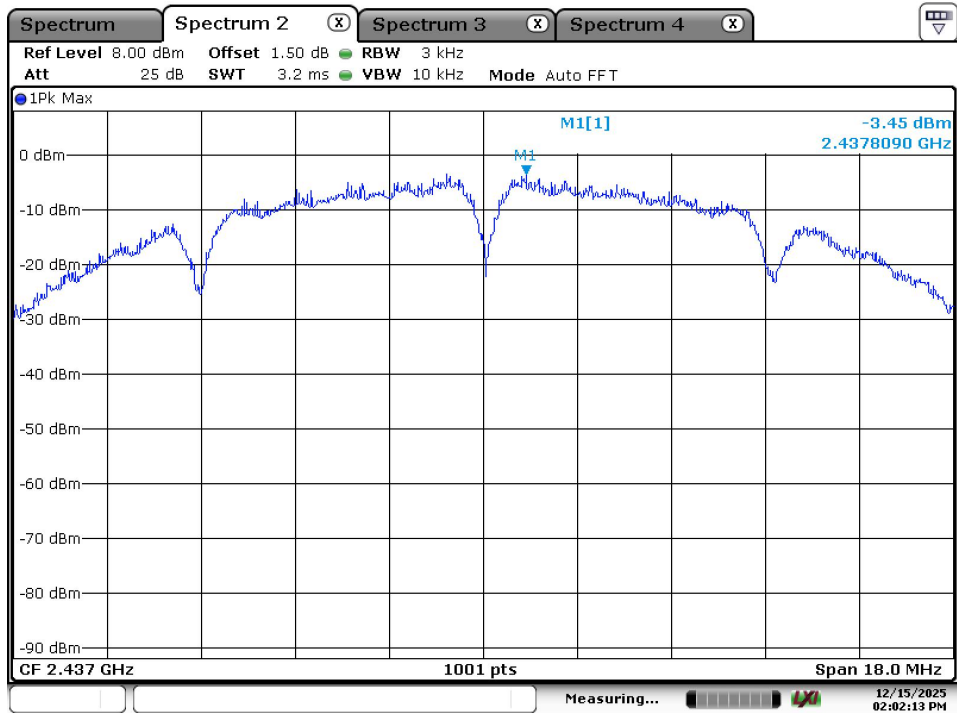
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-3.71	≤8.00	PASS
		2437	-3.45	≤8.00	PASS
		2462	-2.31	≤8.00	PASS
11G	Ant1	2412	-6.26	≤8.00	PASS
		2437	-5.59	≤8.00	PASS
		2462	-4.82	≤8.00	PASS
11N20SISO	Ant1	2412	-6.12	≤8.00	PASS
		2437	-4.91	≤8.00	PASS
		2462	-5.76	≤8.00	PASS
11N40SISO	Ant1	2422	-10.0	≤8.00	PASS
		2437	-9.67	≤8.00	PASS
		2452	-8.70	≤8.00	PASS

Test Graphs

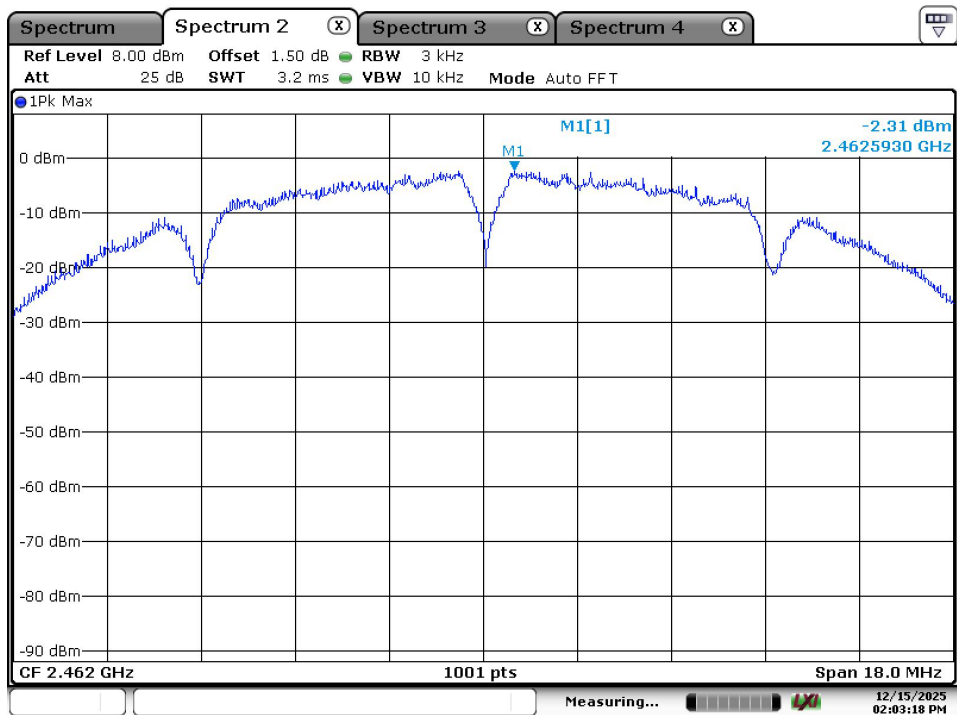
802.11b



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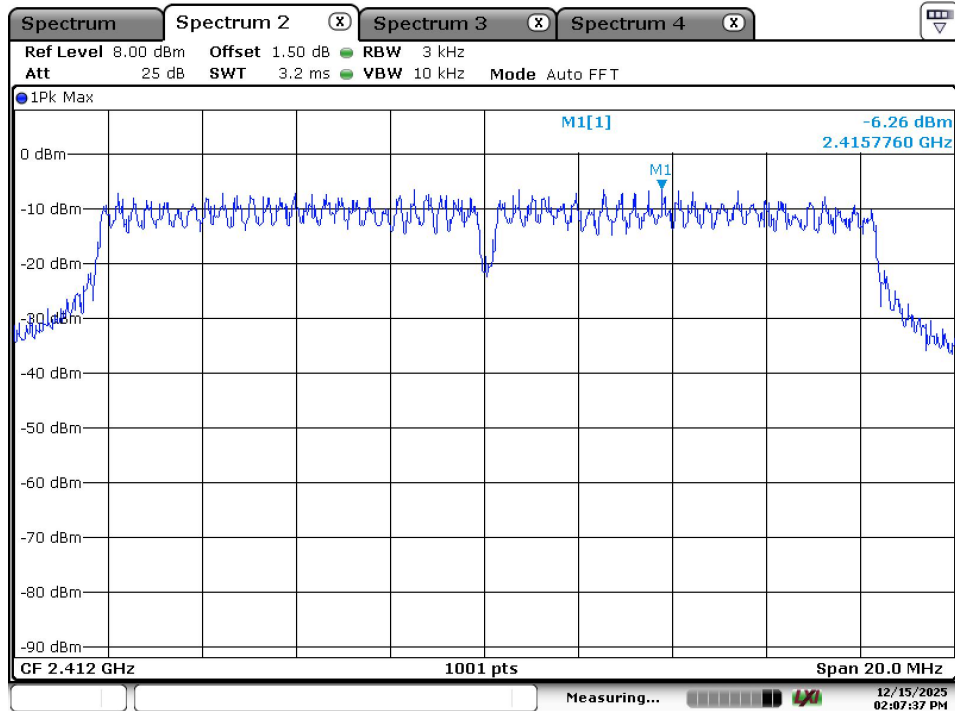


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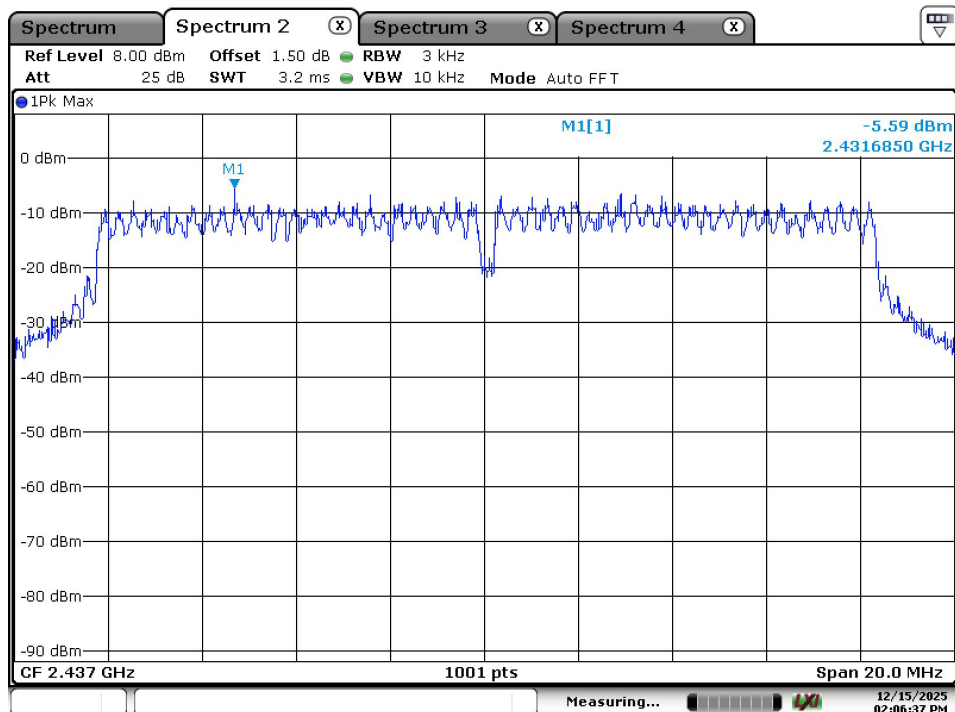


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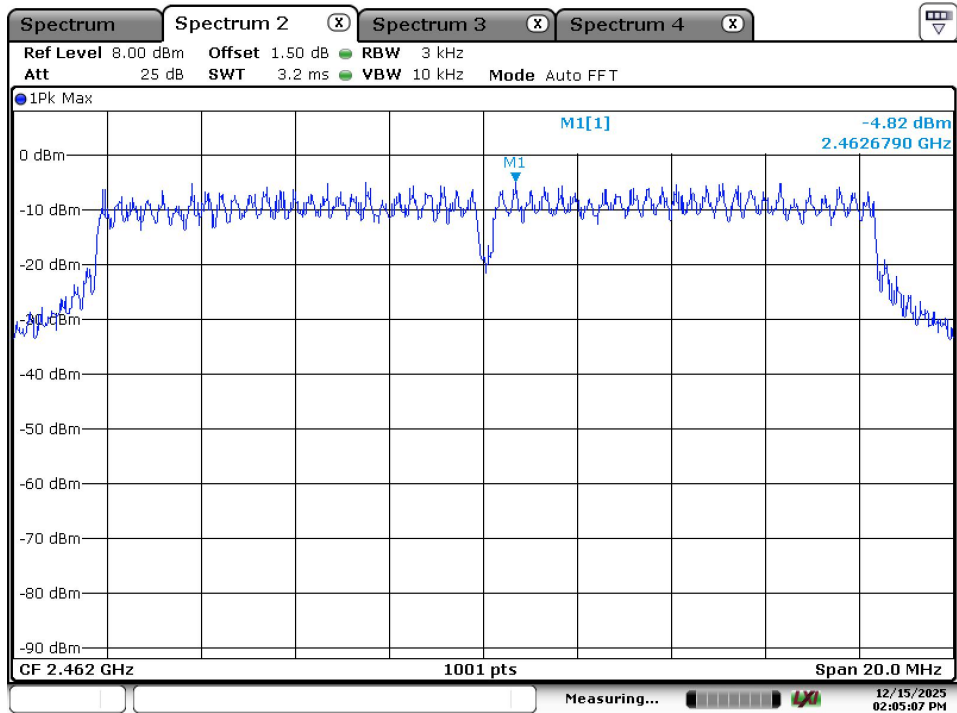
802.11g



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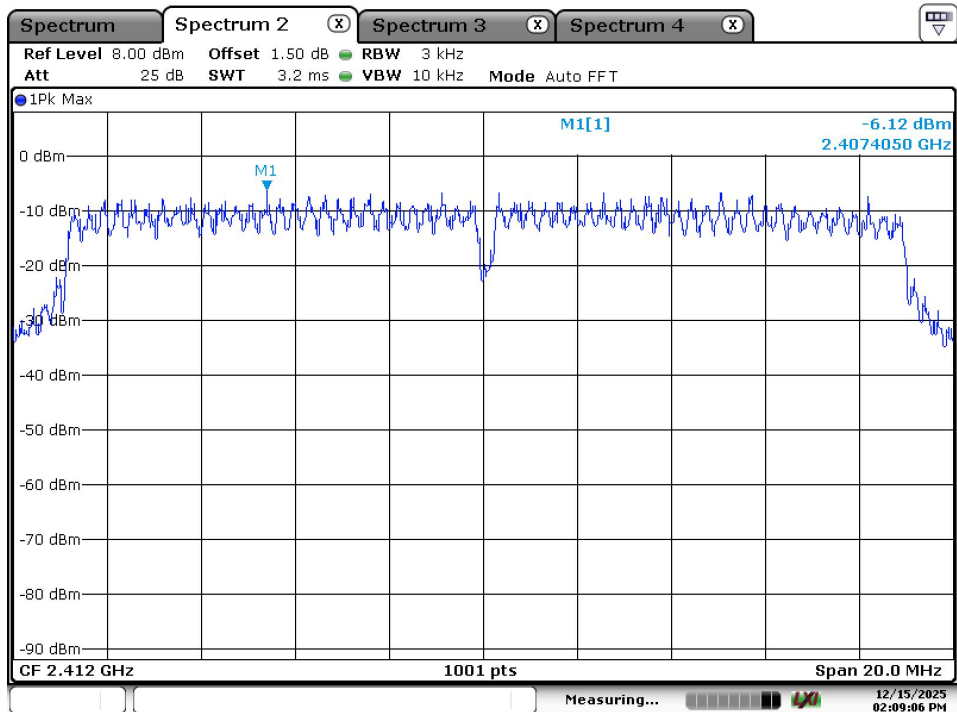


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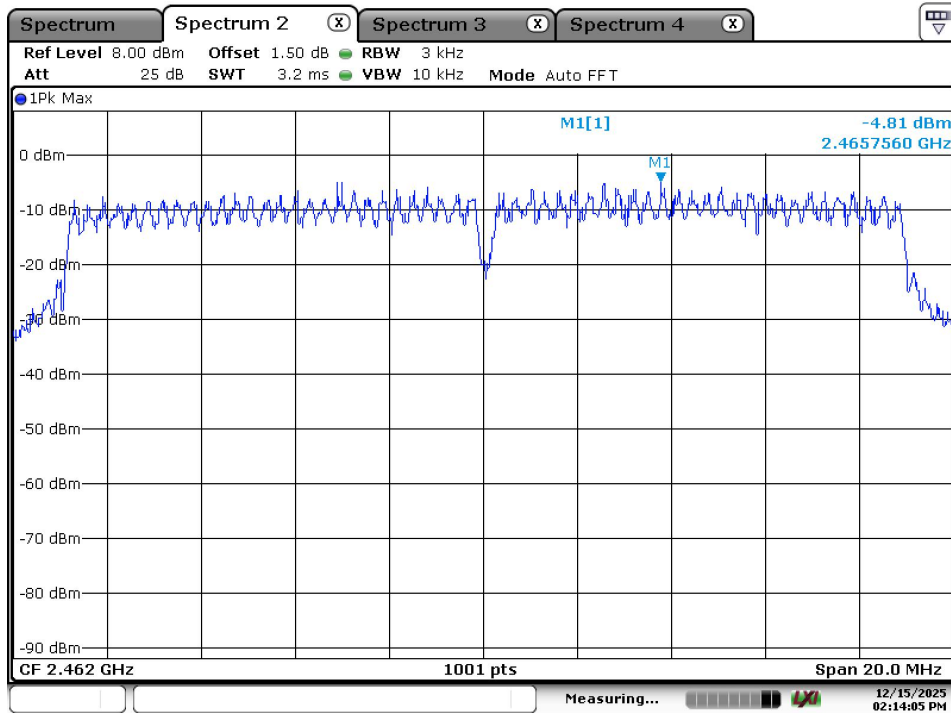


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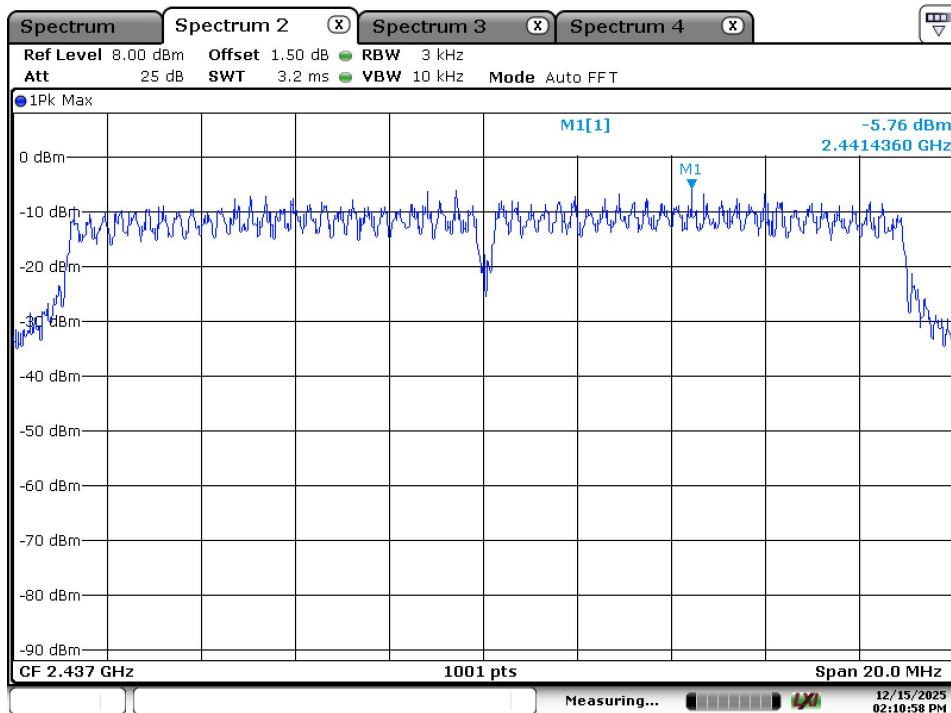
802.11N20



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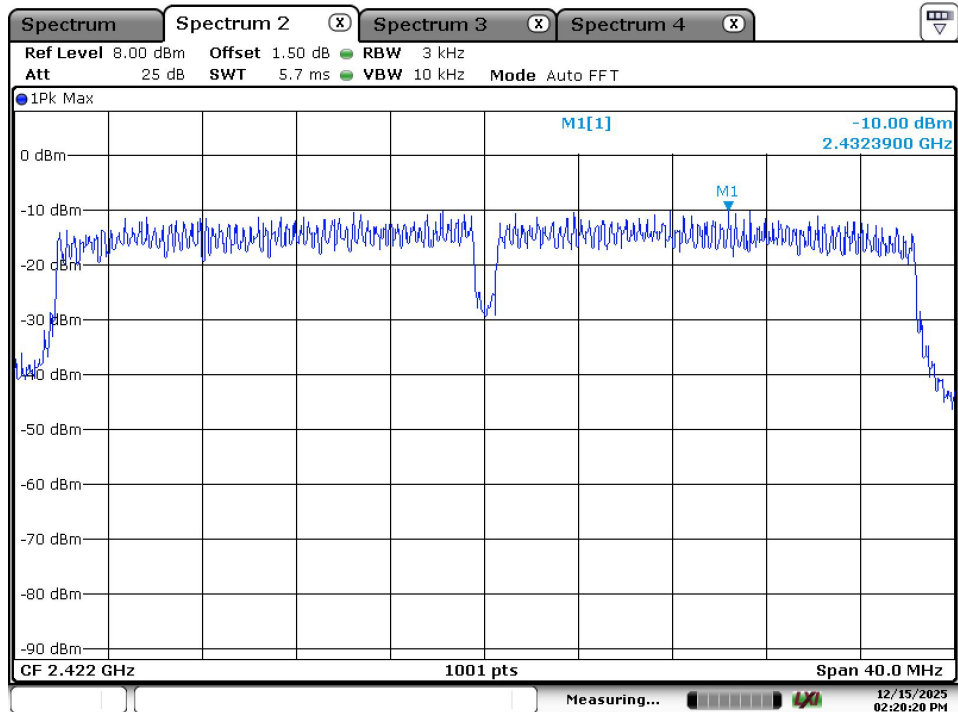


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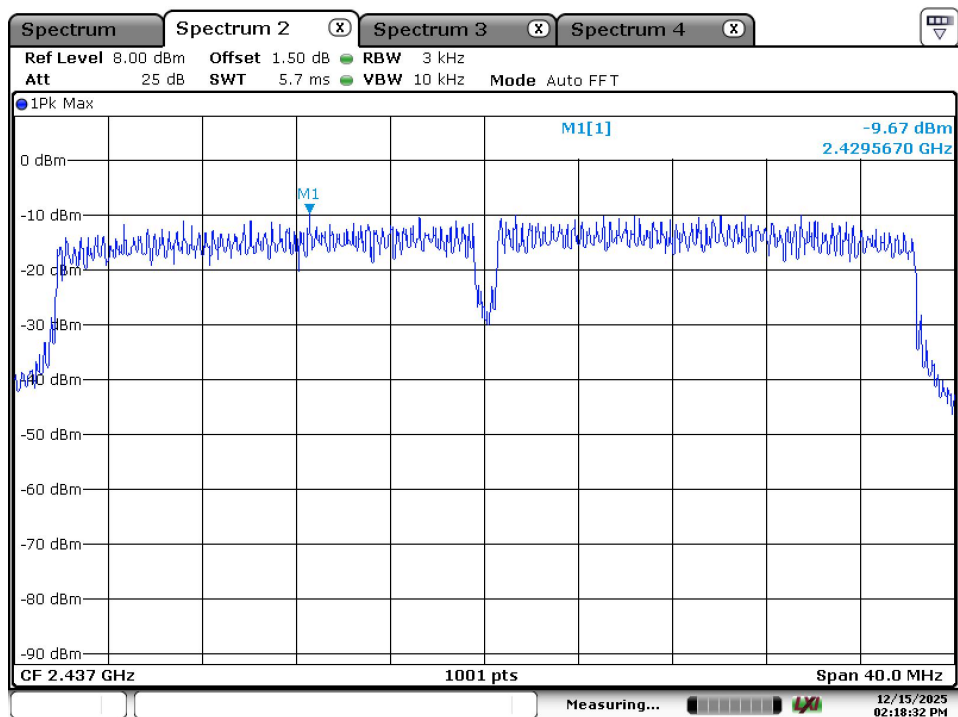


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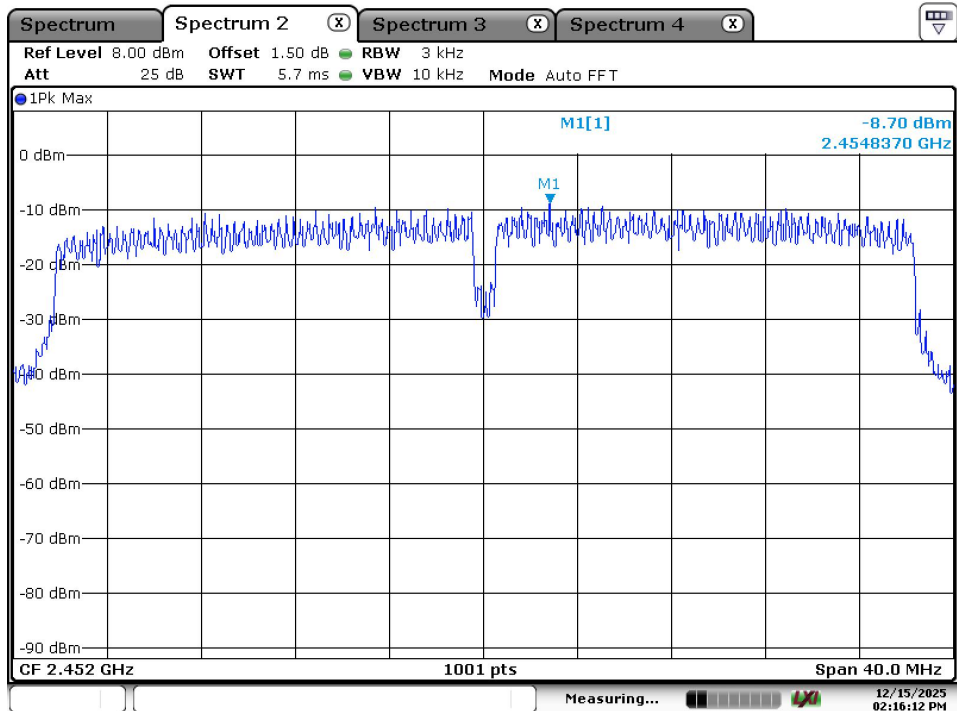
802.11N40



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Date: 15.DEC.2025 14:18:33



Date: 15.DEC.2025 14:16:12

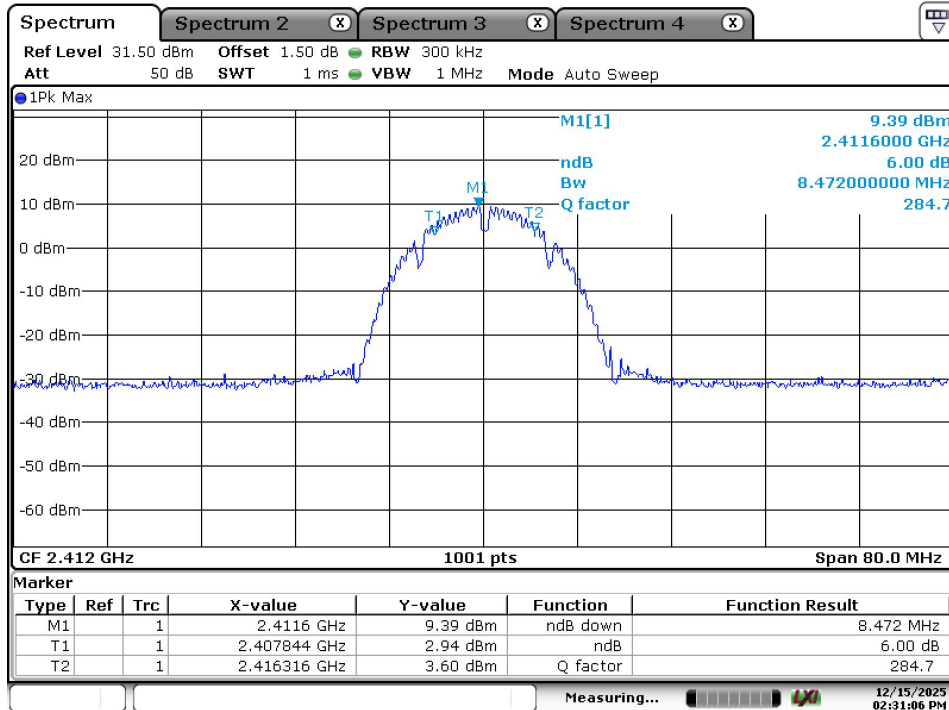
Appendix A.2: Test Results of 6dB Bandwidth

Test Result

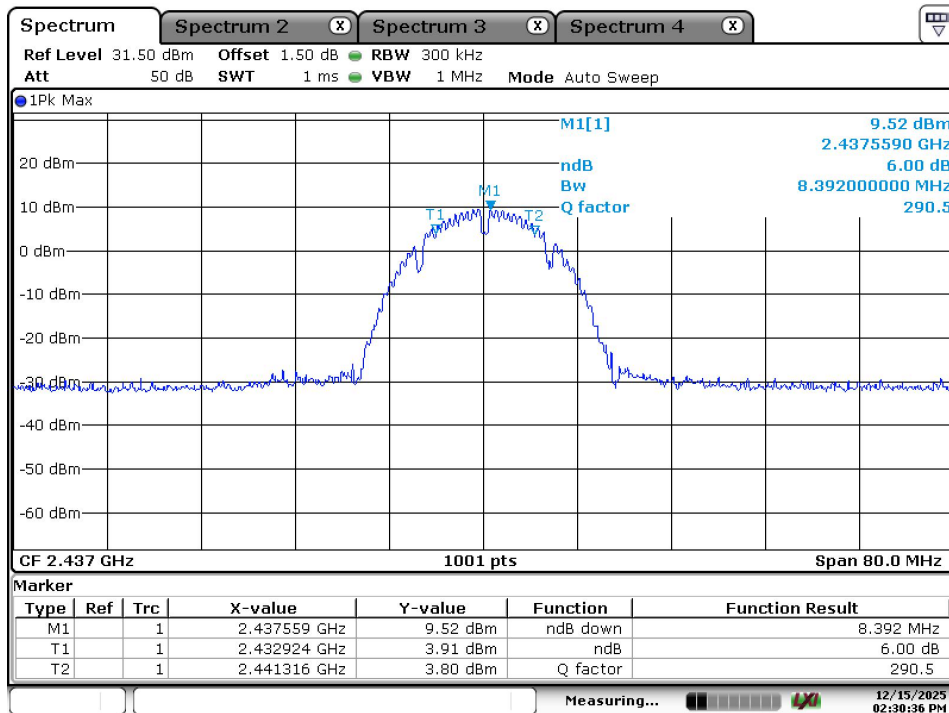
TestMode	Antenna	Channel	DTS BW [MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.47	>0.5	PASS
		2437	8.39	>0.5	PASS
		2462	8.47	>0.5	PASS
11G	Ant1	2412	16.54	>0.5	PASS
		2437	16.38	>0.5	PASS
		2462	16.54	>0.5	PASS
11N20SISO	Ant1	2412	17.74	>0.5	PASS
		2437	17.50	>0.5	PASS
		2462	17.66	>0.5	PASS
11N40SISO	Ant1	2422	36.06	>0.5	PASS
		2437	35.96	>0.5	PASS
		2452	36.03	>0.5	PASS

Test Graphs

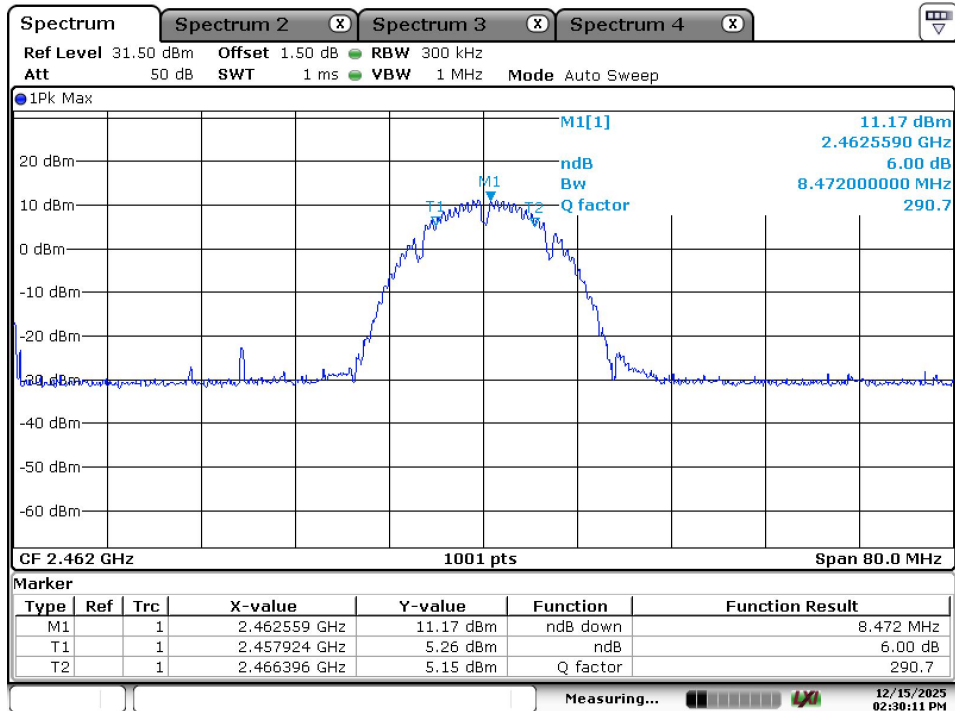
802.11b



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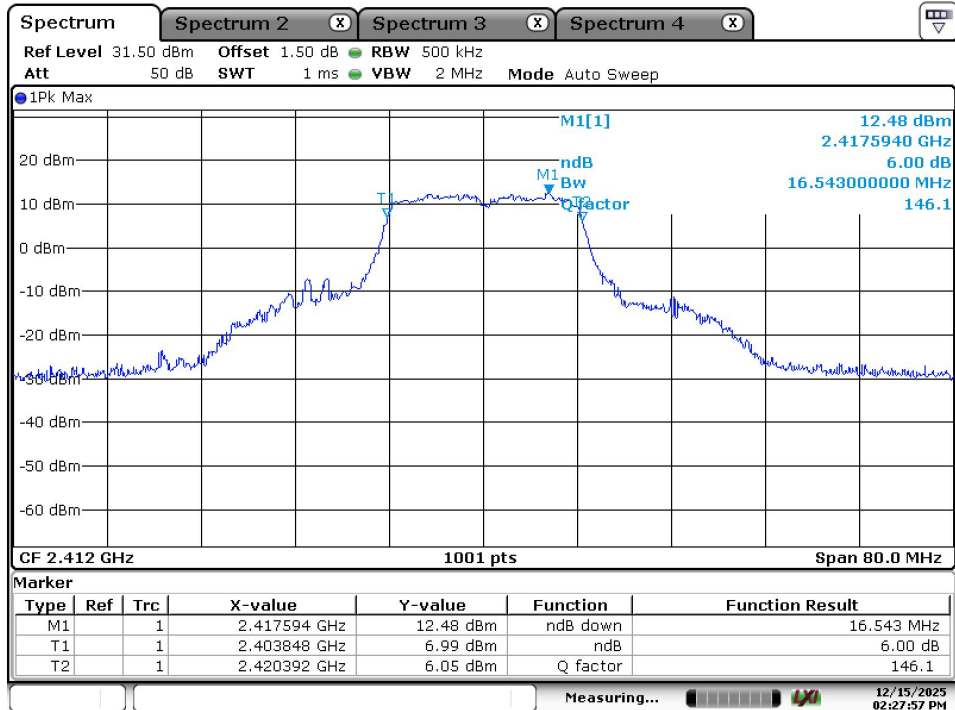


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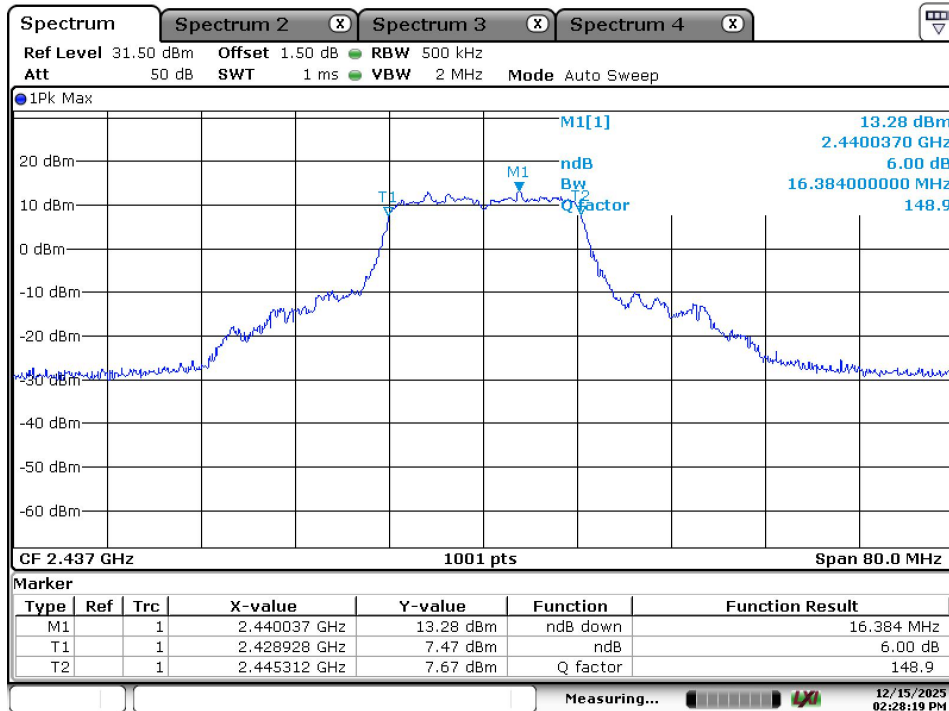


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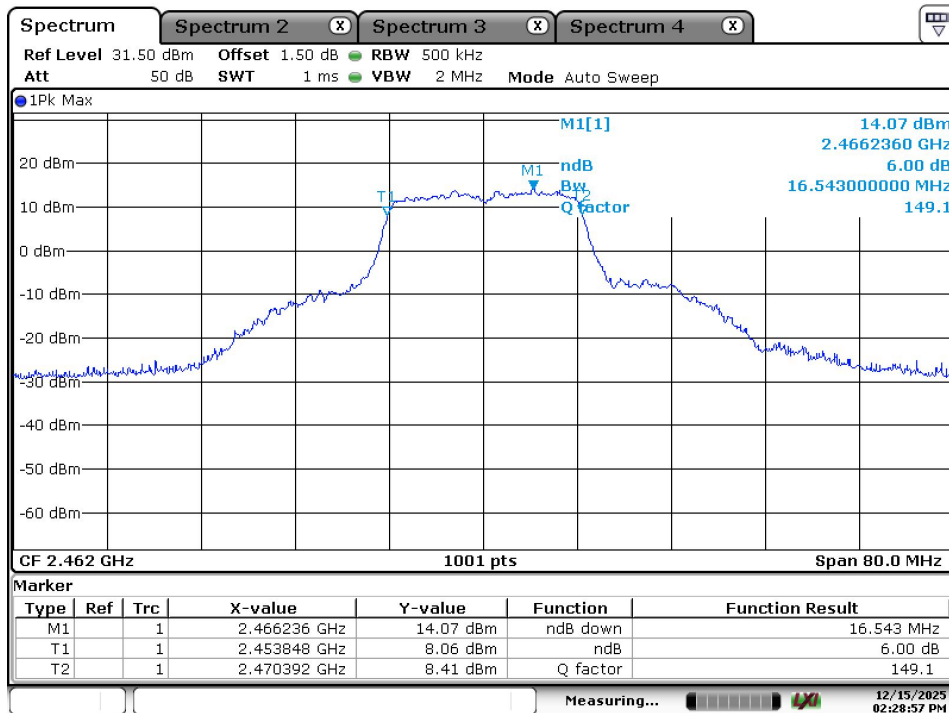
802.11g



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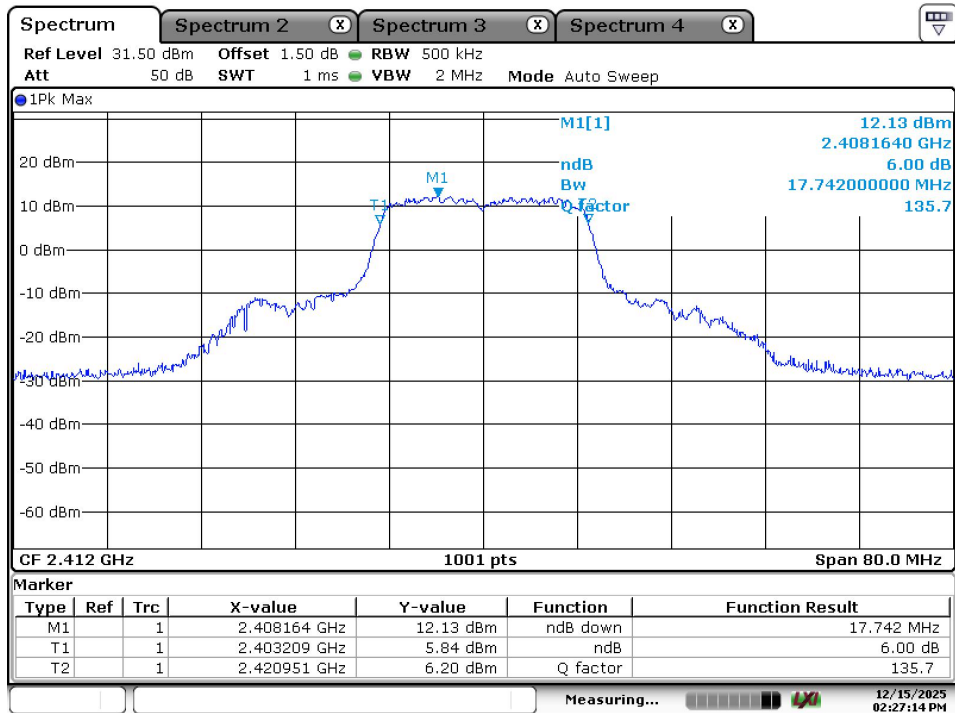


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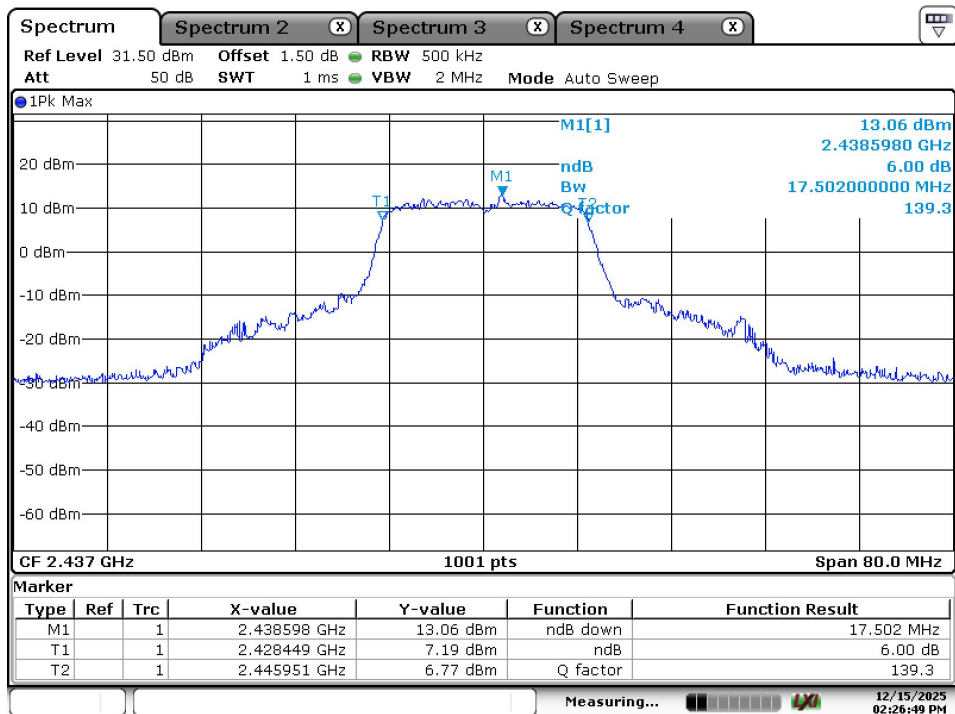


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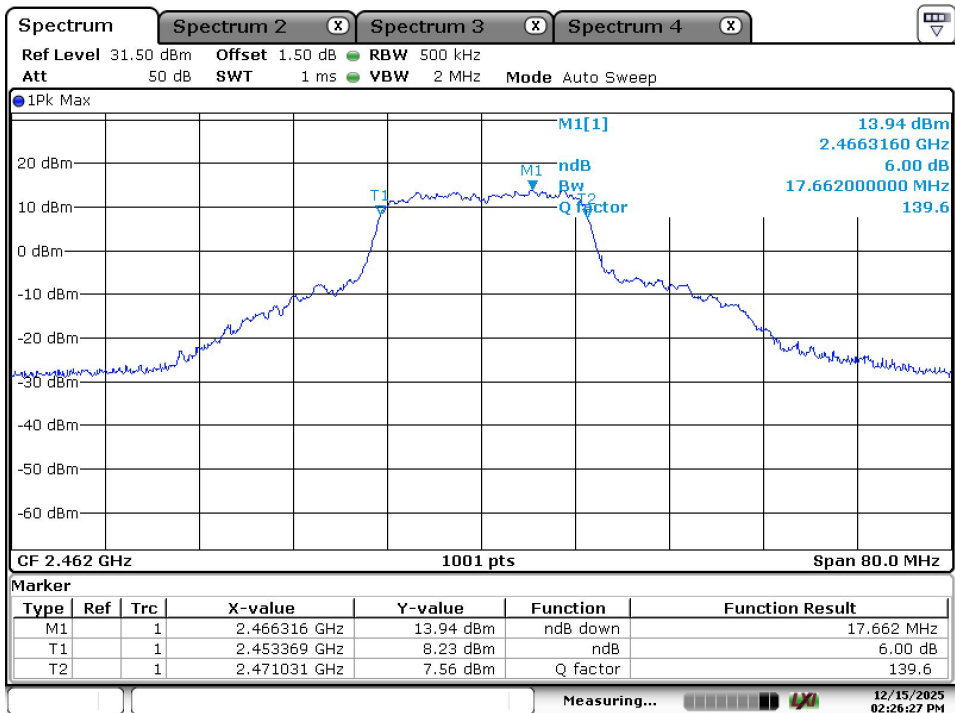
802.11N20



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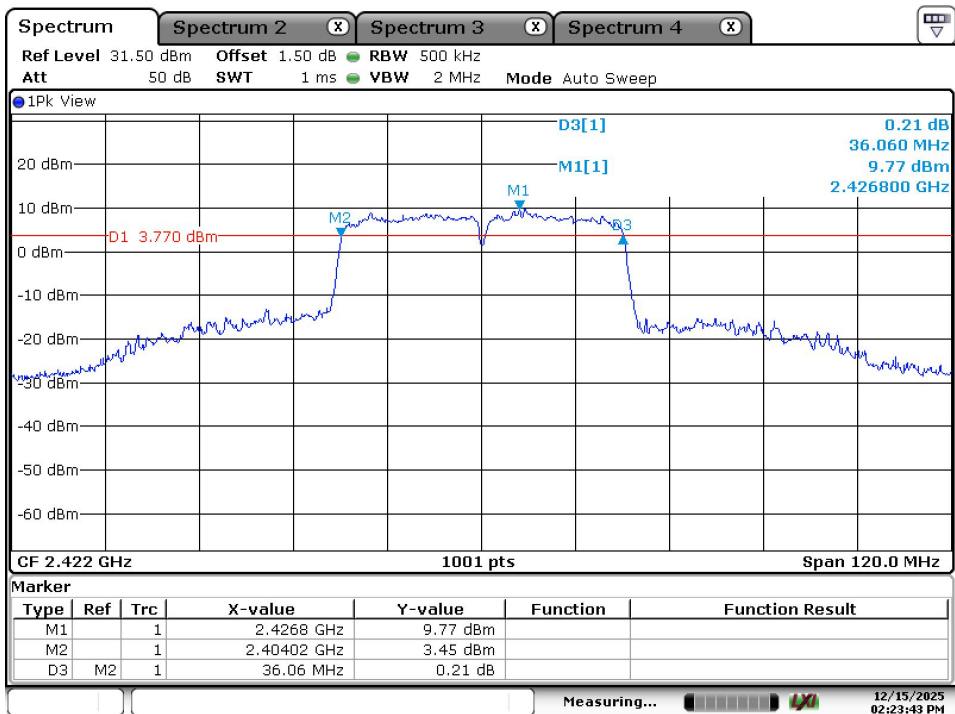


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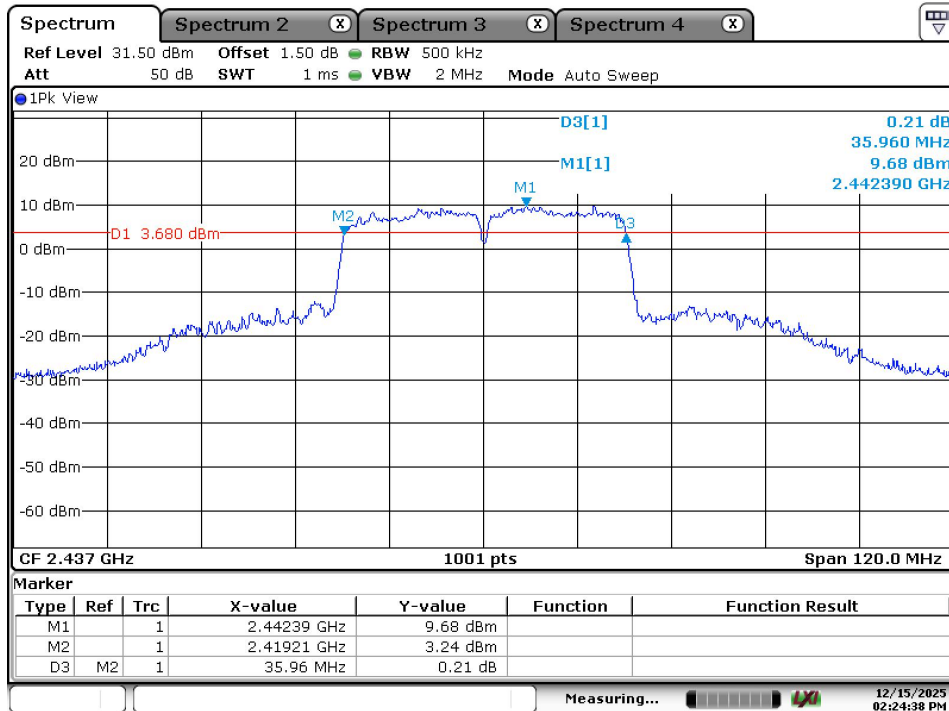


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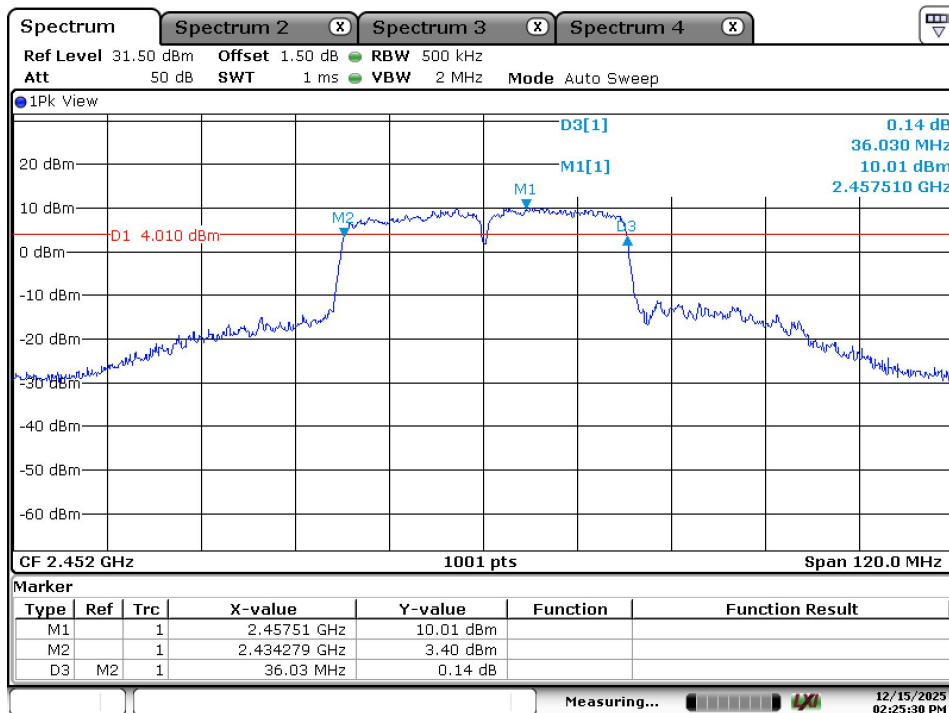
802.11N40



Date: 15.DEC.2025 14:23:44



Date: 15.DEC.2025 14:24:38



Date: 15.DEC.2025 14:25:30

Appendix A.3: Test Results of 99% Bandwidth

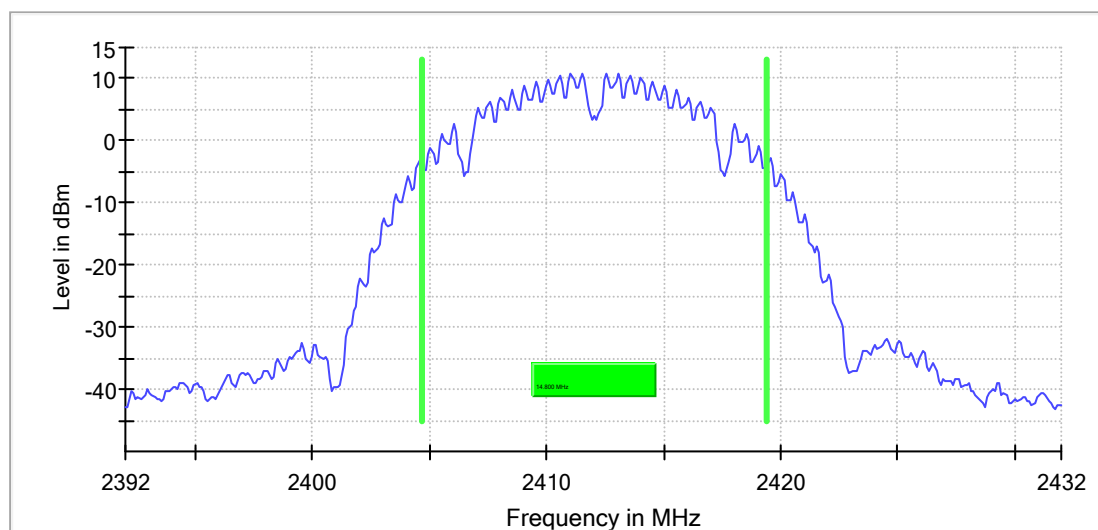
Test Result

TestMode	Antenna	Channel	OCB [MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.80	---	PASS
		2437	14.80	---	PASS
		2462	14.80	---	PASS
11G	Ant1	2412	17.00	---	PASS
		2437	16.80	---	PASS
		2462	16.90	---	PASS
11N20SISO	Ant1	2412	17.80	---	PASS
		2437	18.00	---	PASS
		2462	18.00	---	PASS
11N40SISO	Ant1	2422	36.50	---	PASS
		2437	36.50	---	PASS
		2452	36.50	---	PASS

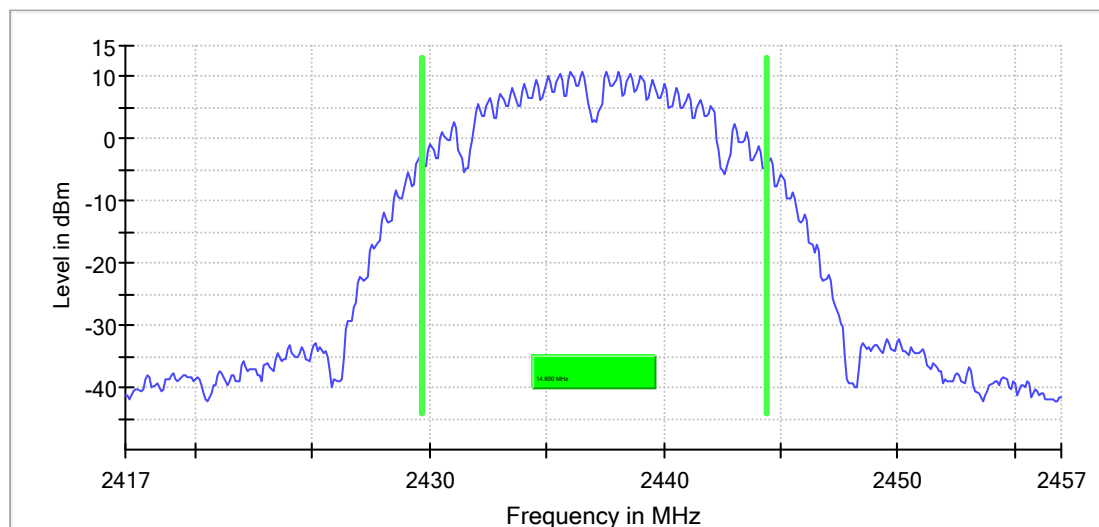
Test Graphs

802.11b

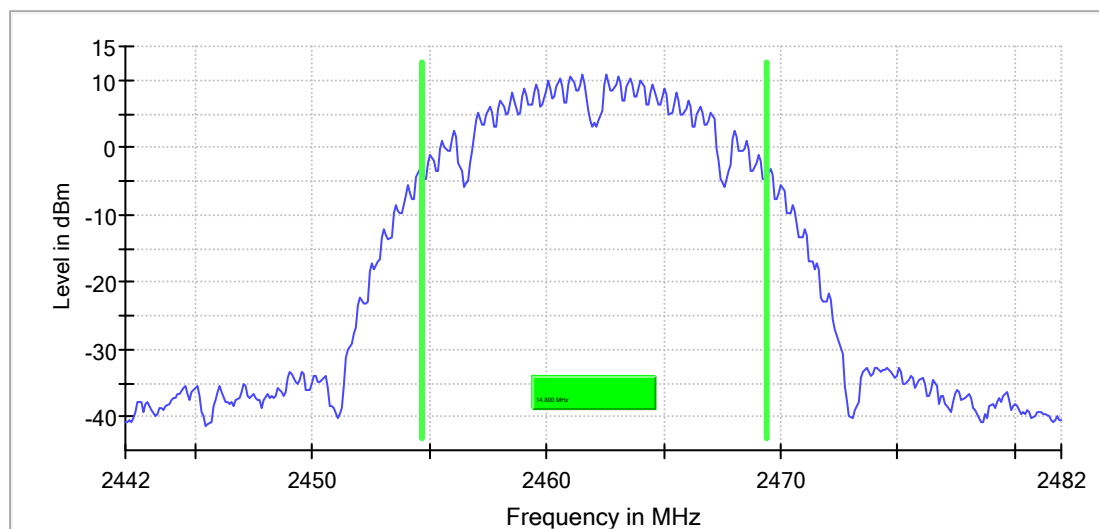
99 % Bandwidth



99 % Bandwidth

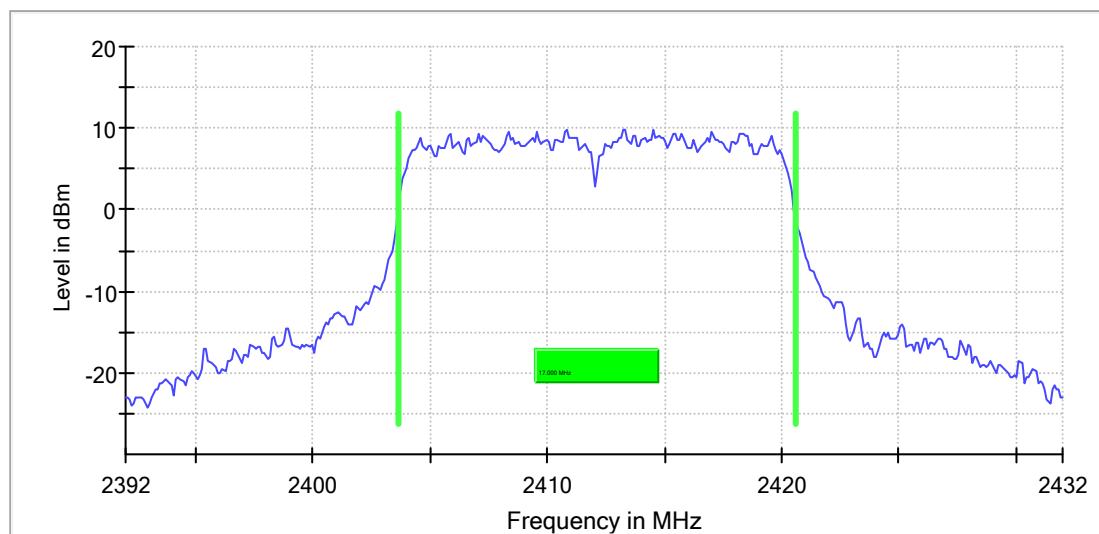


99 % Bandwidth

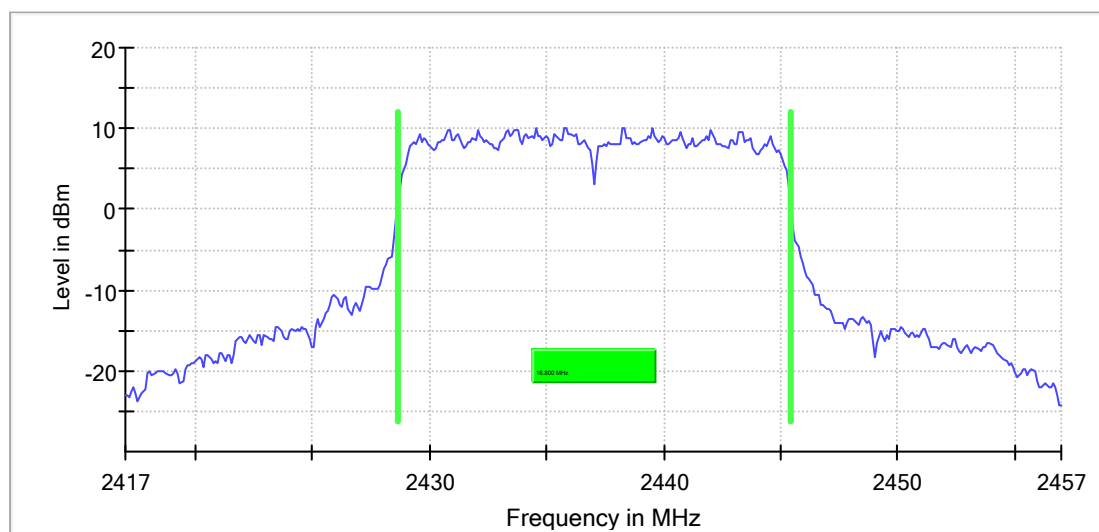


802.11g

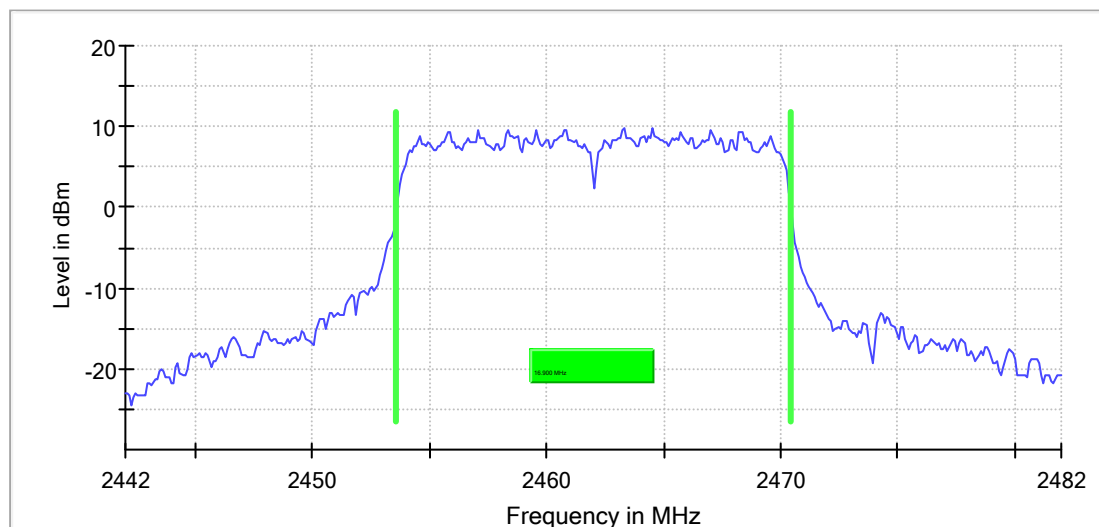
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99 % Bandwidth

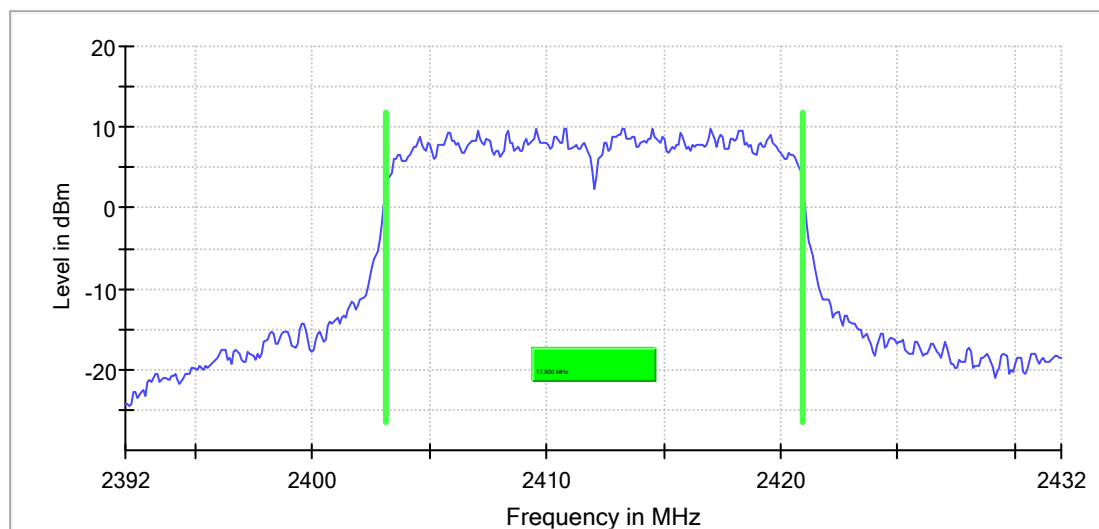


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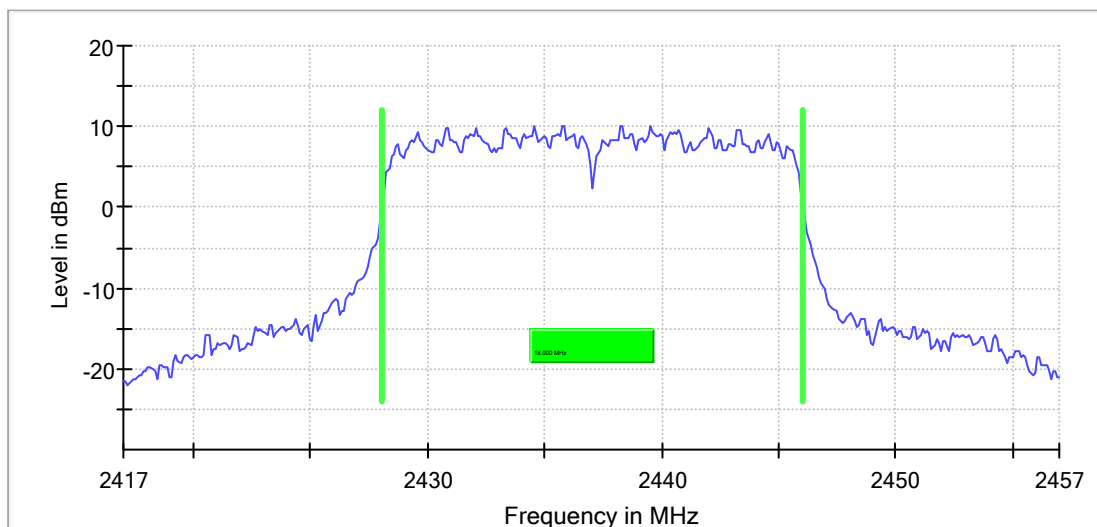


802.11N20

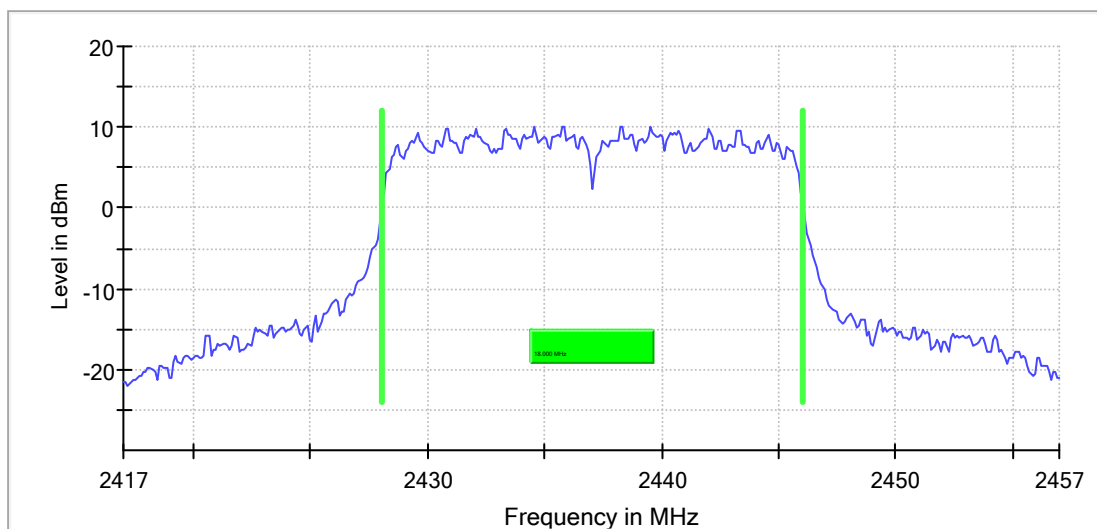
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99 % Bandwidth

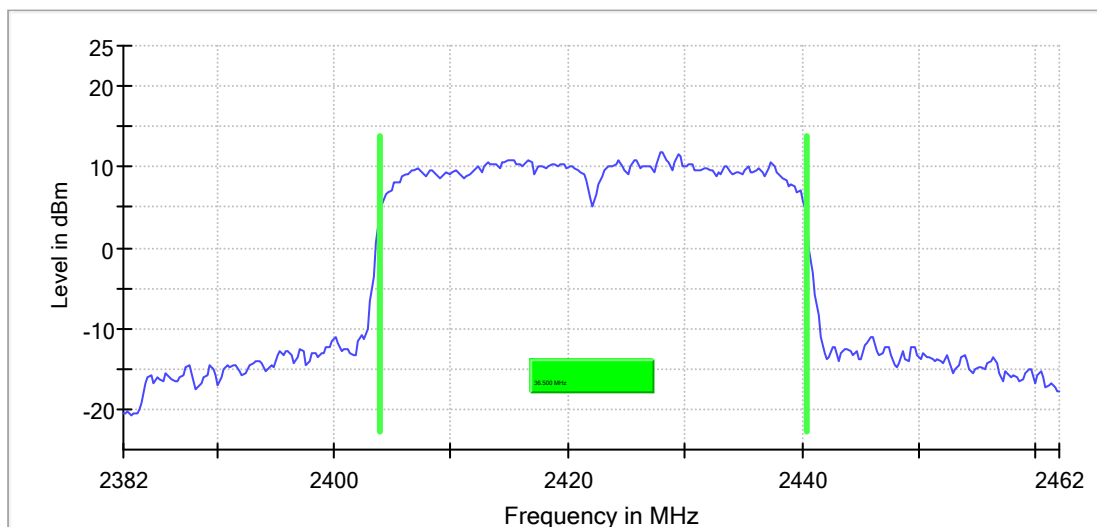


99 % Bandwidth



802.11N40

99 % Bandwidth



99 % Bandwidth

