



Solutions

TEST REPORT

Test Report No.: UL-RPT-RP-14684854-916

Customer : Eliwell Controls srl
Model No. / PMN : AIR EDGE WiFi-Eth RS485 SD
HVIN : AIR EDGE WiFi Eth RS485
FVIN : EDGEWIFI
FCC ID : 2AMLEEDGEWIFI
ISED Certification No. : IC: 9727A-EDGEWIFI
Technology : WLAN
Test Standard(s) : **FCC Parts 15.207, 15.209(a) & 15.247**
ISED RSS-247 ISSUE 4
ISED RSS-GEN ISSUE 5+A1+A2

For details of applied tests refer to test result summary

1. This test report shall not be reproduced in full or partial, without the written approval of UL International Germany GmbH.
2. The results in this report apply only to the sample tested.
3. The test results in this report are traceable to the national or international standards.
4. Test Report Version 1.1 supersede Version 1.0 with immediate effect
Test Report No.: UL-RPT-RP-14684854-916 Version 1.1 issue date 29 May 2026 Replaces
Test Report No.: UL-RPT-RP-14684854-916 Version 1.0 issue date 19 February 2025 which is no longer valid.
5. Result of the tested sample: **Pass**
6. All information marked with a (*) were provided by customer / applicant or authorized representative



Prepared by: Rachid Acharkaoui
Title: Operation Manager
Date: 29 May 2026



Approved by Bernd Woerl
Title: Staff Laboratory Engineer
Date: 29 May 2026



Deutsche
Akkreditierungsstelle
D-PL-19381-02-00

This laboratory is accredited by DAkkS.
The tests reported herein have been performed in
accordance with its' terms of accreditation.

UL INTERNATIONAL GERMANY GMBH

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STU.CTECHLab@ul.com

Customer Information

Company Name:	Eliwell Controls srl
Address:	Via dell'Industria 15 32016 Alpago (BL) Italy

Report Revision History

Version Number	Issue Date	Revision Details	Revised By
1.0	19/02/2025	Initial Version	Yixiang Lin
1.1	29/05/2026	Update report according to RSS 247 issue 4	Bernd Woerl

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1 Attestation of Test Results

1.1 Description of EUT

The equipment under test was a Modbus to WiFi/Ethernet interface with BLE connectivity, supporting WLAN 2.4 GHz, WLAN 5 GHz and Bluetooth LE.

While testing WLAN 2.4 GHz, EUT were operating in 2400-2483.5 MHz band. All other supported radio technologies were either switched off or were in idle mode.

1.2 General Information

Specification Reference:	47CFR15.247
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications): Part 15 Subpart C (Intentional Radiators) – Section 15.247
Specification Reference:	47CFR15.207 and 47CFR15.209
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications): Part 15 Subpart C (Intentional Radiators) – Sections 15.207 and 15.209
Specification Reference:	RSS-Gen Issue 5 February 2021
Specification Title:	General Requirements for Compliance of Radio Apparatus
Specification Reference:	RSS-247 Issue 4, July 2025
Specification Title:	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices
Site Registration:	FCC: 399704, ISEDC: 22511
FCC Lab. Designation No.:	DE0019
ISEDC CABID:	DE0008
Location of Testing: *	Hedelfinger Strasse. 61,70327 Stuttgart, GERMANY Admiral-Rosendahl-Strasse 9, 63263 Neu-Isenburg Germany
Test Dates:	14 February 2024 to 18 March 2024 27 May 2026, 9 June 2026 (RSS 247 issue 4 updates)

NOTE: The lab relocated from Stuttgart to Neu-Isenburg and some remeasurements were required due to standard's new revision/issue number.*

1.3 Summary of Test Results

FCC Reference (47CFR)	ISED Canada Reference	Measurement	Result
Part 15.35(c)	-	Transmitter Duty Cycle	Note 1
N/A	RSS-Gen 6.7	Transmitter 99% Occupied Bandwidth	
Part 15.247(a)(2)	RSS-Gen 6.7 / RSS-247 6.3.1(a)	Transmitter Minimum 6 dB Bandwidth	
Part 15.247(b)(3)	RSS-Gen 6.12 / RSS-247 6.3.2	Transmitter Maximum Peak Output Power	
Part 15.247(e)	RSS-247 6.3.1(b)	Transmitter Power Spectral Density	
Part 15.247(d)	RSS-Gen 6.13 / RSS-247 6.6	Transmitter Conducted Emissions	Note 2
Part 15.247(d) & 15.209(a)	RSS-Gen 6.13 / RSS-247 6.6	Transmitter Band Edge Conducted Emissions	Note 2
Part 15.247(d) & 15.209(a)	RSS-Gen 6.13 / RSS-247 6.6	Transmitter Radiated Emissions	
Part 15.247(d) & 15.209(a)	RSS-Gen 6.13 / RSS-247 6.6	Transmitter Band Edge Radiated Emissions	
Part 15.207	RSS-Gen 8.8	Transmitter AC Conducted Emissions	
Key to Results  = Complied  = Did not comply			

Note(s):

1. As the continuous transmission of the EUT ($D \geq 98\%$) can be achieved and EUT was transmitting continuously with 100% duty cycle (+/- 2% tolerance). Therefore, the measurement is not included in the report.
2. The Spurious emission measurements were performed Radiated and therefore conducted emissions were not required.

1.4 Deviations from the Test Specification

For the measurements contained within this test report, there were no deviations from, additions to, or exclusions from the test specification identified above.

2 Summary of Testing

2.1 Facilities and Accreditation

The test site and measurement facilities used to collect data are located at Hedelfinger Strasse. 61,70327 Stuttgart, GERMANY. The following table identifies which facilities were utilised for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

Due to relocation, measurements with respect to RSS 247 issue 4 were performed in Neu-Isenburg under the same FCC Lab. Designation, ISEDC CABID and DAkkS accreditation number,

SR1	X
SR9	X
SR7/8	X
NI-TS8997	X

UL International Germany GmbH is accredited by the DAkkS. DAkkS is one of the signatories to the International Laboratory Accreditation Co-operation (ILAC) Arrangement for the mutual recognition of test reports. The tests reported herein have been performed in accordance with its terms of accreditation.

2.2 Methods and Procedures

Reference:	FCC: ANSI C63.10-2020 + Cor. 1-2023 / ISED: ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024
Title:	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
Reference:	KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019
Title:	Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating Under Section 15.247 of the FCC Rules
Reference:	KDB 174176 D01 Line Conducted FAQ v01r02 August 7, 2025
Title:	AC Power-Line Conducted Emissions Frequently Asked Questions

2.3 Calibration and Uncertainty

Measuring Instrument Calibration

In accordance with DAkkS requirements all the measurement equipment is on a calibration schedule. All equipment was within the calibration period on the date of testing.

Measurement Uncertainty & Decision Rule

Overview

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

Decision Rule

Measurement system instrumentation shall be used with an accuracy specification meeting the accuracy specification limits according to IEC/IECEE OD-5014.

As applicable, unless specified otherwise in this quotation, the compliance "Decision Rule" is based on Simple Acceptance. If the measured value is on the limit, the result is defined as a pass. In this case the risk of a false positive is 50%. For further information regarding risk assessment refer to ILAC G8:09/2019.

Measurement Uncertainty

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor such that a confidence level of approximately 95% is maintained. For the purposes of this document "approximately" is interpreted as meaning "effectively" or "for most practical purposes".

Measurement Type	Confidence Level (%)	Calculated Uncertainty
AC Conducted Spurious Emissions	95%	± 2.49 dB
Conducted Maximum Peak Output Power	95%	± 0.59 dB
Radiated Spurious Emissions	95%	± 3.10 dB
Band Edge Radiated Emissions	95%	± 3.10 dB
Transmitter Duty Cycle	95%	$\pm 3.4\%$
Minimum 6 dB Bandwidth	95%	$\pm 0.87\%$
99% Occupied Bandwidth	95%	$\pm 0.87\%$
Spectral Power Density	95%	± 0.59 dB

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty the published guidance of the appropriate accreditation body is followed.

2.4 Test and Measurement Equipment

Test site: SR 1/2

ID	Manufacturer	Type	Model	Serial	Calibration Date	Cal. Cycle (months)
1	Rohde&Schwarz	Antenna, Loop	HFH2-Z2	831247/012	18/07/2023	36
377	BONN Elektronik	Amplifier, Low Noise Pre	BLMA 0118-1A	025294B	18/07/2023	12
460	Deisel	Turntable	DT 4250 S	n/a	n/a	n/a
465	Schwarzbeck	Antenna, Trilog Broadband	VULB 9168	9168-240	02/09/2020	42
496	Rohde&Schwarz	Antenna, log. - periodical	HL050	100297	22/08/2022	24
588	Maturo	Controller	NCD	029/7180311	n/a	n/a
591	Rohde&Schwarz	Receiver	ESU 40	100244/040	13/07/2023	12
607	Schwarzbeck	Antenna broadband horn antenna	BBHA 9170	9170-561	10/05/2024	36
669	Rohde&Schwarz	EMI Test Receiver	ESW 44	103087	13/07/2023	18
694	Rohde&Schwarz	Signal Analyzer	FSW 50	101847	09/05/2023	12
608	Rohde&Schwarz	Switch Matrix	OSP 120	101227	lab verification	n/a
628	Maturo	Antenna mast	CAM 4.0-P	224/19590716	n/a	n/a
629	Maturo	Kippeinrichtung	KE 2.5-R-M	MAT002	n/a	n/a
-/-	Testo	Thermo-Hygrometer	608-H1	01	lab verification	n/a
328	SPS	AC/DC power distribution system	PAS 5000	A2464 00/2 0200	lab verification	n/a
1603665	Siemens Matsushita Components	semi-anechoic chamber SR1/ 2	-/-	B83117-A1421-T161	n/a	n/a
681	Maturo	Antenna mast, tilting	BAM4.5-P	402/0718.1	n/a	n/a

Note: Calibration dates are logged based on the equipment data on time of use for measurements, not based on the report issue dates.

Test site: SR 9

ID	Manufacturer	Type	Model	Serial	Calibration Date	Cal. Cycle (months)
625	Schwarzbeck	Antenna, H-field	HFSL 7101	109	lab verification only relative measurements	n/a
637	Rohde & Schwarz	Spectrum Analyser	FSV40	101587	12/07/2023	12
-/-	Testo	Thermo-Hygrometer	608-H1	07	lab verification	n/a
645	Weiss Umwelttechnik	Climatic Chamber	LabEvent T/110/70/3	5822619794 0010	lab verification	n/a
327	SPS	AC/DC power distribution system	PAS 5000	A2464 00/1 0200	lab verification	n/a
-/-	Huber+Suhner	SMA RF	SMA-SMA	284009-1	lab verification	n/a

Note: Calibration dates are logged based on the equipment data on time of use for measurements, not based on the report issue dates.

Test site: SR 7/8

ID	Manufacturer	Type	Model	Serial No.	Calibration Date	Cal. Cycle
22	Rohde&Schwarz	Artificial Mains	ESH3-Z5	831767/014	18.07.2023	12
23	Rohde&Schwarz	Artificial Mains	ESH3-Z5	831767/013	18.07.2023	12
28	Rohde&Schwarz	Passive Probe	ESH2-Z3	none	13.07.2022	36
215	Rohde&Schwarz	Artificial Mains Network	ESH2-Z5	879675/002	18.07.2023	24
349	Rohde&Schwarz	Receiver, EMI Test	ESIB7	836697/009	18.07.2023	12
351	Rohde&Schwarz	network, Artificial Mains	ESH3-Z5	862770/018	18.07.2023	12

505	Rohde&Schwarz	Absorbing Clamp	MDS21	100005	21.07.2023	48
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Note: Calibration dates are logged based on the equipment data on time of use for measurements, not based on the report issue dates.

Test and Measurement Equipment (continued)

Test site: NI-TS8997 (UL International Germany GmbH, Admiral-Rosendahl-Strasse 9 Neu-Isenburg)

Site location for remeasurements needed for RSS 247 issue 4 updates, and lab relocations.

ID	Manufacturer	Type	Model	Serial	Calibration Date	Cal. Cycle (months)
637	Rohde & Schwarz	Spectrum Analyser	FSV40	101587	12/07/2023	36
327	SPS	AC/DC power distribution system	PAS 5000	A2464 00/1 0200	lab verification	n/a
-/-	Testo	Thermo-Hygrometer	608-H1	07	lab verification	n/a
239408	Cable NI-TS8997 CPM	Cable NI TS8997 CPM 01	SMAN/TNC/BNC	N/A	lab verification	n/a

Note: Calibration dates are logged based on the equipment data on time of use for measurements, not based on the report issue dates.

Test Measurement Software/Firmware Used:

Name	Manufacturer	Version
EMI Software; CE measurement software	Toyo	EP5/CE Ver 4.0.1.
EMC32	Rohde & Schwarz	11.30.00

3 Equipment Under Test (EUT)

3.1 Identification of Equipment Under Test (EUT)

Brand Name:	Eliwell Controls
Model Name or Number / PMN:	AIR EDGE WiFi-Eth RS485 SD
HVIN:	AIR EDGE WiFi Eth RS485
FVIN:	EDGEWIFI
Test Sample Serial Number:	111909 + 111934 (Radiated Test Sample)
Hardware Version:	111909C + 111934C
Software Version:	0.1.21t
FCC ID:	2AMLEEDGEWIFI
ISED Canada Certification Number:	IC: 9727A-EDGEWIFI
Date of Receipt:	21 June 2023

Brand Name:	Eliwell Controls
Model Name or Number / PMN:	AIR EDGE WiFi-Eth RS485 SD
HVIN:	AIR EDGE WiFi Eth RS485
FVIN:	EDGEWIFI
Test Sample Serial Number:	111909 + 111934 (Conducted Test Sample)
Hardware Version:	111909C + 111934C
Software Version:	0.1.21t
FCC ID:	2AMLEEDGEWIFI
ISED Canada Certification Number:	IC: 9727A-EDGEWIFI
Date of Receipt:	21 June 2023

3.2 Modifications Incorporated in the EUT

No modifications were applied to the EUT during testing.

3.3 Additional Information Related to Testing

Technology Tested:	WLAN (IEEE 802.11b/g/n) / Digital Transmission System		
FCC Equipment Classification:	Digital Transmission System (DTS)		
Type of Unit:	Transceiver		
Power Supply Requirement(s):	120V AC / 60 Hz		
Modulation Type:	DBPSK, DQPSK, BPSK, QPSK, 16QAM & 64QAM		
Supported Data Rates:	802.11b	1, 2, 5.5, 11 Mbps	
	802.11g	6, 9, 12, 18, 24, 36, 48, 54 Mbps	
	802.11n20	MCS0 – MCS7	
	802.11n40	MCS0 – MCS7	
Maximum Conducted Output Power:	12.313 dBm		
Channel Spacing:	20 MHz		
Transmit Frequency Range:	2412 MHz to 2462 MHz		
Transmit Channels Tested:	Channel ID	RF Channel	Frequency (MHz)
	Bottom	1	2412
	Middle	6	2437
	Top	11	2462
Channel Spacing:	40 MHz		
Transmit Frequency Range:	2422 MHz to 2452 MHz		
Transmit Channels Tested:	Channel ID	RF Channel	Frequency (MHz)
	Bottom	3	2412
	Middle	6	2437
	Top	9	2462

3.4 Description of Available Antennas

The radio utilizes an integrated antenna, with the following maximum gain:

Frequency Range (MHz)	Antenna Gain (dBi)
2400-2480	Integral 4.89 dBi External 2.89 dBi

3.5 Description of Test Setup

Support Equipment

The following support equipment was used to exercise the EUT during testing:

Description:	Test Laptop with PuTTY
Brand Name:	HP
Model Name or Number:	Probook 650 G1
Serial Number:	5CG6143YWB

Operating Modes

The EUT was tested in the following operating mode(s):

- Continuously transmitting with a modulated carrier at power level 13 on the relevant channels as required using the supported data rates/modulation types.
- * According to the RF output power following data rates were determined to be the worst cases per mode and therefore, all further measurements were performed only with these worst-case modes.

b-mode: 1 Mbps

g-mode: 24 Mbps

n20-mode: MCS6

n40-mode: MCS3

Configuration and Peripherals

The EUT was tested in the following configuration(s):

Test Mode Activation:

- The EUT can be connected with the Test laptop via USB-UART cables supplied by the customer. The cable was used only for configuration and was removed during the measurement.
- The test modes were activated by the terminal software 'PuTTY'. The commands to setup the respective modes and power were defined by the customer in the setup instructions.
- The transmitter test mode was configured to power settings according to the customer setup instruction.

EUT Power Supply:

- The EUT was powered with 120 V AC 60 Hz from Mains.

AC Conducted Emissions Measurements:

- The EUT radiated sample was used for AC conducted emissions measurements.
- The measurements were carried out with 120 VAC/60Hz & 240 VAC/60Hz.
- The Toyo EMI Software EP5/CE Ver 4.0.1. was used for these measurements.

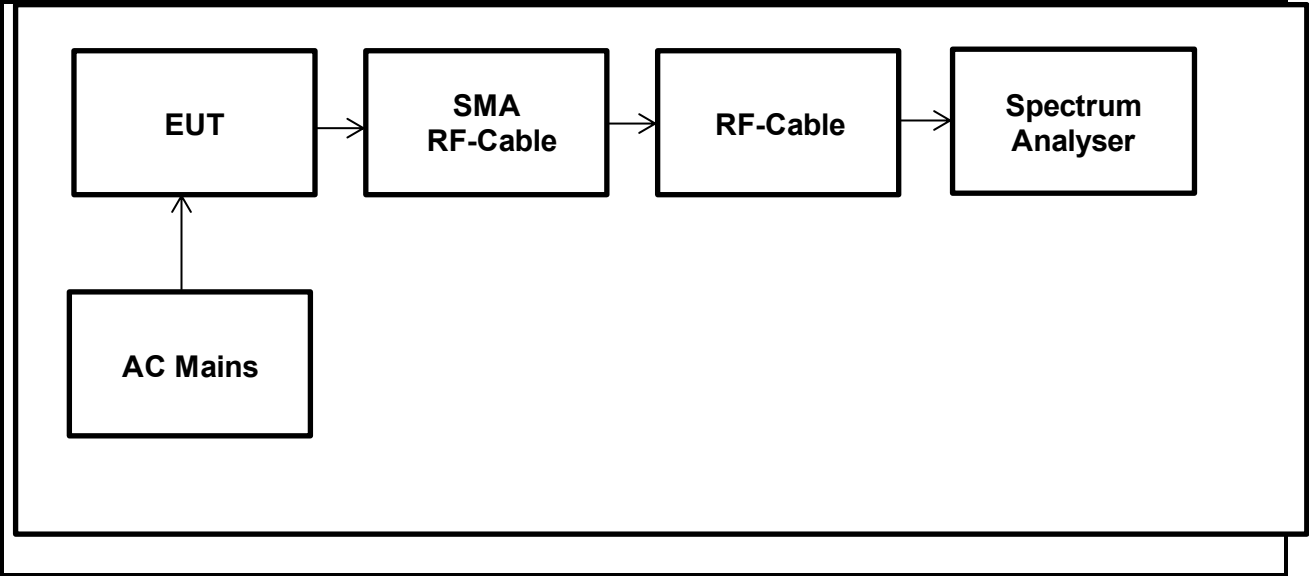
Radiated Measurements:

- For radiated measurements were performed with the radiated test sample.
- Before starting the measurements EUT in standing and laying position with its antenna was evaluated for the worst-case position w.r.t to maximum radiated power measured and following positions of the antenna were found out to be the worst case. Therefore, this report includes relevant results.
- External Antenna (External): Vertically placed in y-axis parallel to the vertical standing EUT.
- PCB Antenna (Internal): EUT in horizontal position.
- Radiated measurements below 30 MHz were performed with the EUT positioned on the turn table and rotating 360 degrees while the loop antenna height was set at 100 cm.
- Radiated measurements above 30 MHz were performed with the EUT positioned on the turn table and rotating 360° while the antenna height varies from 1 to 4 m over the measurement frequency range.
- R&S® EMC32 V11.30 Software was used for the Radiated spurious emission measurements.
- As the continuous transmission of the EUT ($D \geq 98\%$) can be achieved and EUT was transmitting continuously with 100% duty cycle (+/- 2% tolerance). Duty Cycle Correction Factor was not added to all average measurements.

Test Setup Diagrams

Conducted Tests:

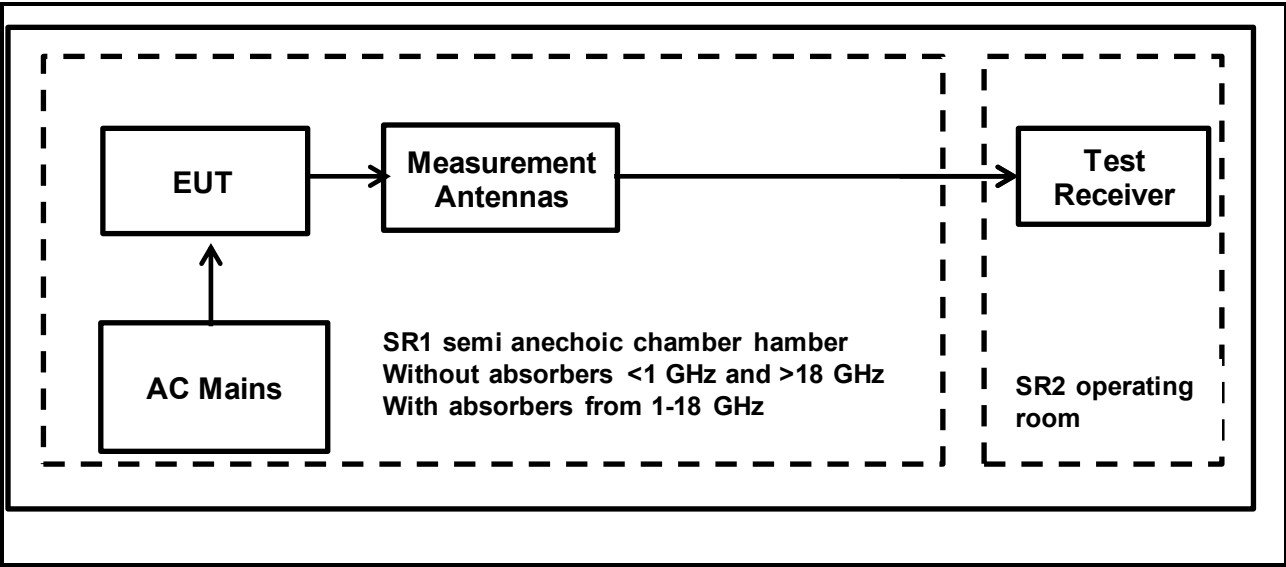
Test Setup for Transmitter Minimum 6 dB Bandwidth, Duty Cycle, Power Spectral Density & Maximum Peak Output Power



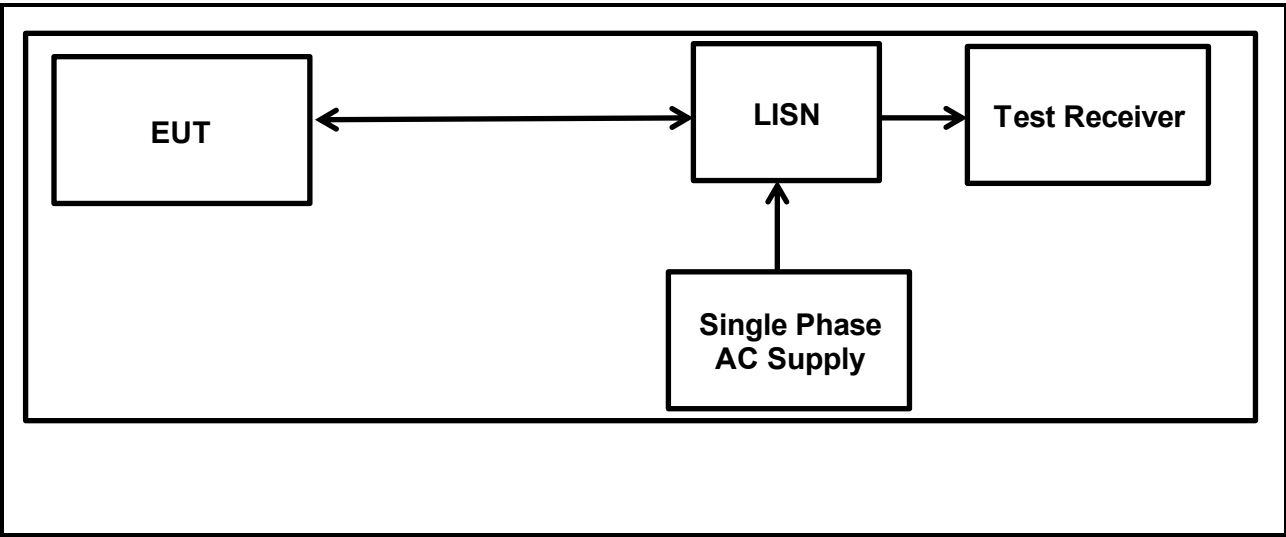
Test Setup Diagrams (continued)

Radiated Tests:

Test Setup for Transmitter Radiated Emissions



Test Setup for Transmitter AC Conducted Spurious Emissions



4 Antenna Port Test Results

4.1 Transmitter 99% Occupied Bandwidth

Test Summary:

Test Engineer:	Al-hussainy Abbas	Test Date:	26 July 2023
Test Sample Serial Number:	111909+111934 (Conducted Test Sample)		

FCC Reference:	N/A
ISED Canada Reference:	RSS-Gen 6.7
Test Method Used:	RSS-Gen 6.7 and Notes below

Environmental Conditions:

Temperature (°C):	23.4
Relative Humidity (%):	60.1

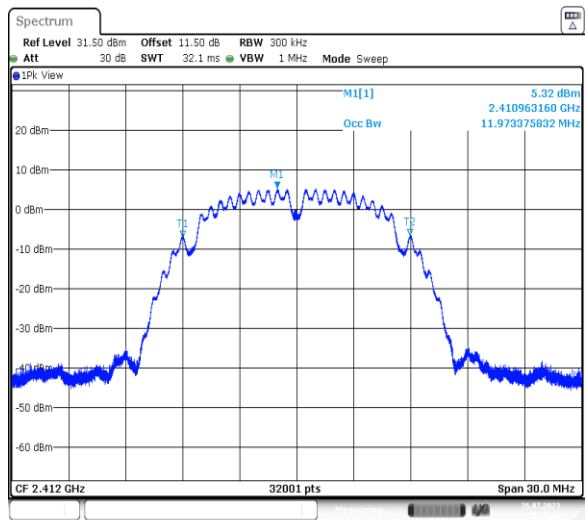
Note(s):

1. The 99% emission bandwidth was measured using the signal analyser occupied bandwidth function. The resolution bandwidth was set in the range of 1% to 5% of the occupied bandwidth and the video bandwidth set to 3 times the resolution bandwidth. The span was set to capture all products of the modulation process including emission skirts.
2. The test system was connected to the RF port on the EUT using suitable attenuation and RF cable.

Transmitter 99% Occupied Bandwidth (continued)

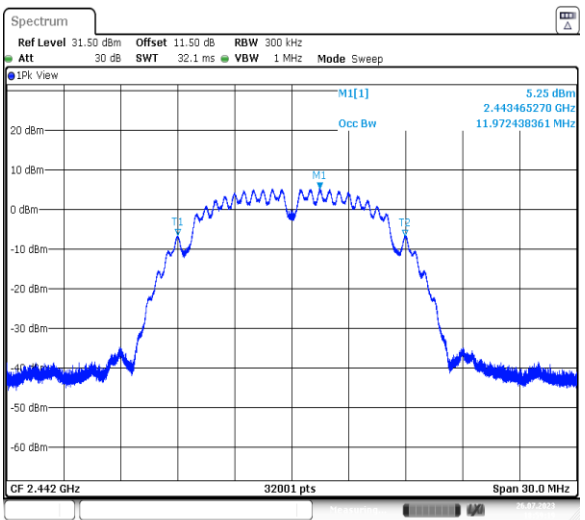
Results: 802.11b / 1Mbps / PWR 13

Channel	99% Occupied Bandwidth (MHz)
Bottom	11.973
Middle	11.972
Top	11.971



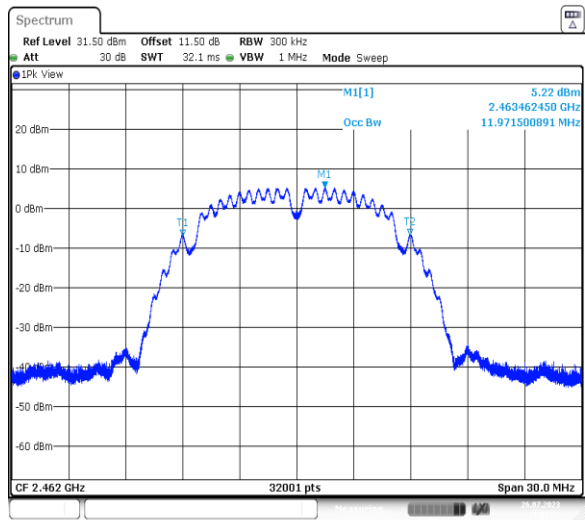
14684854
Date: 26 JUL 2023 19:00:25

Bottom Channel



14684854
Date: 26 JUL 2023 18:59:20

Middle Channel



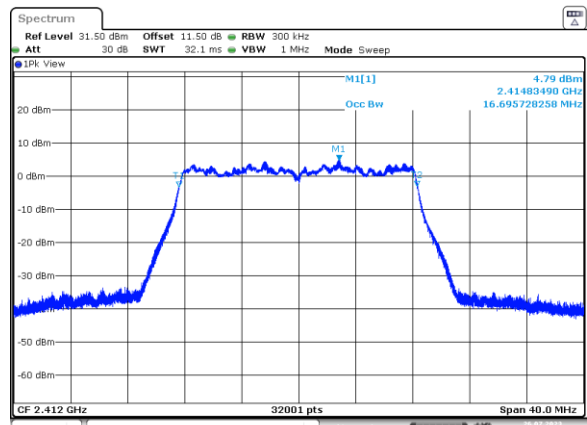
14684854
Date: 26 JUL 2023 19:01:34

Top Channel

Transmitter 99% Occupied Bandwidth (continued)

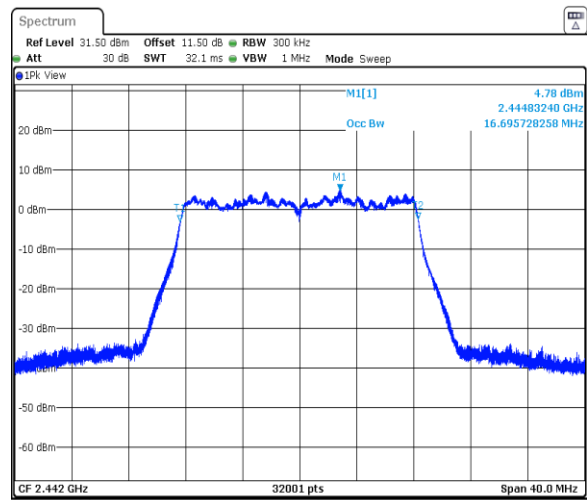
Results: 802.11g / 24Mbps / PWR 13

Channel	99% Occupied Bandwidth (MHz)
Bottom	16.696
Middle	16.696
Top	16.692



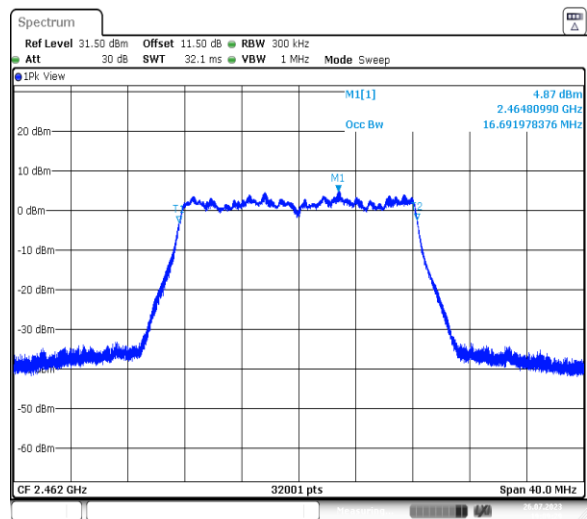
14684854
Date: 26 JUL 2023 19:15:46

Bottom Channel



14684854
Date: 26 JUL 2023 19:12:08

Middle Channel

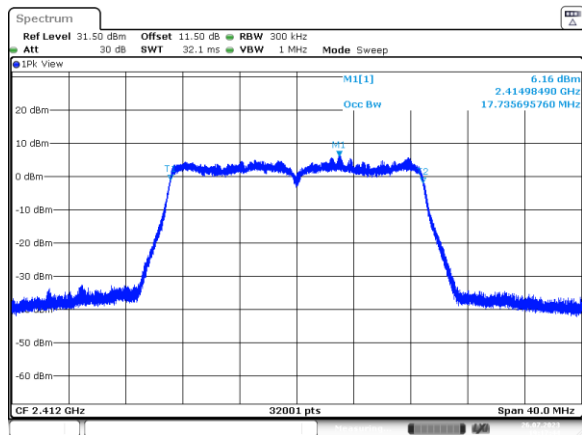


14684854
Date: 26 JUL 2023 19:09:29

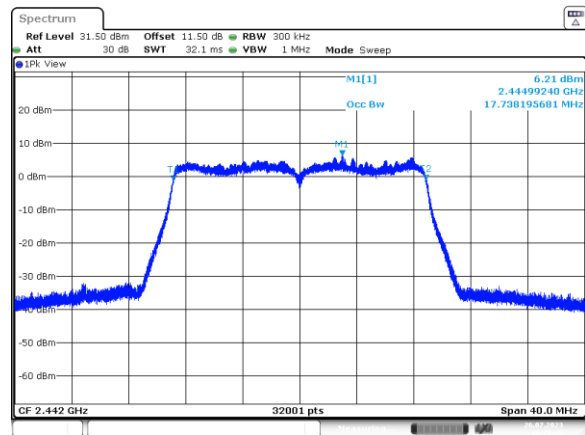
Top Channel

Transmitter 99% Occupied Bandwidth (continued)**Results: 802.11n HT20 / MCS06 / PWR 13**

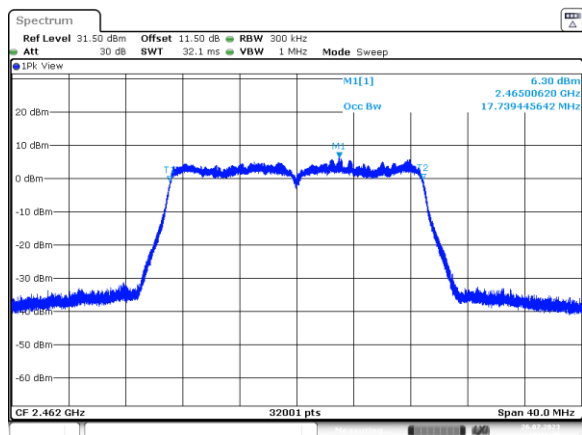
Channel	99% Occupied Bandwidth (MHz)
Bottom	17.736
Middle	17.738
Top	17.739



14684854
Date: 26 JUL 2023 19:17:44

Bottom Channel

14684854
Date: 26 JUL 2023 19:20:46

Middle Channel

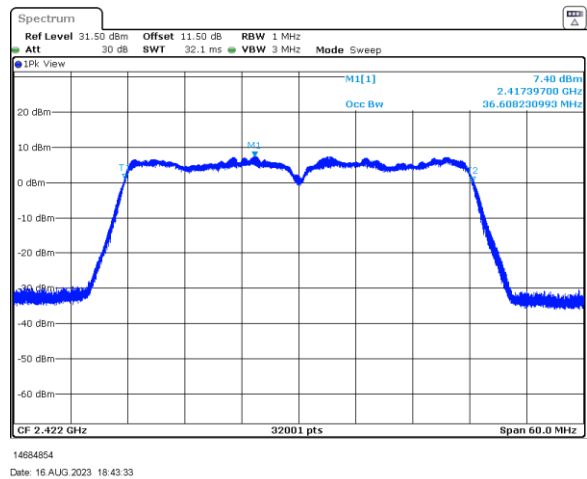
14684854
Date: 26 JUL 2023 19:21:50

Top Channel

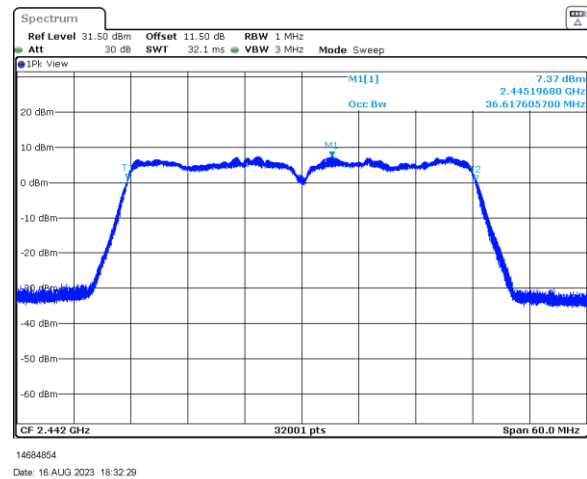
Transmitter 99% Occupied Bandwidth (continued)

Results: 802.11n HT40 / MCS03 / PWR 13

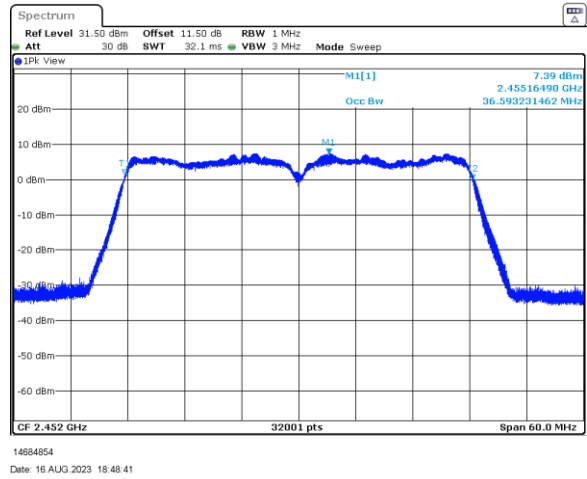
Channel	99% Occupied Bandwidth (MHz)
Bottom	36.608
Middle	36.617
Top	36.593



Bottom Channel



Middle Channel



Top Channel

4.2 Transmitter Minimum 6 dB Bandwidth

Test Summary:

Test Engineer:	Omar EL Moghrabi	Test Date:	27 May 2026 9-June 2026
Test Sample Serial Number:	111909+111934 (Conducted Test Sample)		

FCC Reference:	Part 15.247(a)(2)
ISED Canada Reference:	RSS-Gen 6.7 / RSS-247 6.3.1
Test Method Used:	FCC KDB 558074 Section 8.2 referencing ANSI C63.10 Section 11.8.1

Environmental Conditions:

Temperature (°C):	23.4 / 24.2
Relative Humidity (%):	48.4 / 51.8

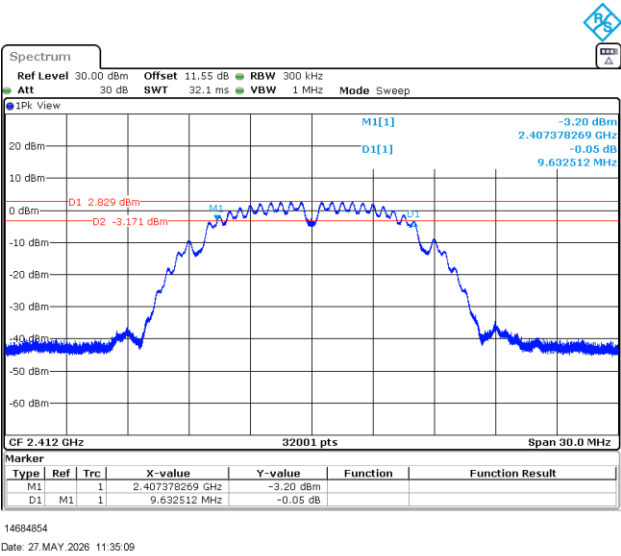
Note(s):

- 6 dB DTS bandwidth tests were performed using a signal analyser in accordance with ANSI C63.10 Section 11.8.1:
 - The spectrum analyser resolution bandwidth (RBW) was set to the range of 1% to 5% of the OBW but not less than 100 kHz
 - The video bandwidth set to be $VBW \geq [3 \times RBW]$.
 - A peak detector was used, sweep time was set to auto and the trace mode was Max Hold. The DTS bandwidth was measured at 6 dB down from the peak of the signal.
- The test system was connected to the RF port on the EUT using suitable attenuation and RF cable.

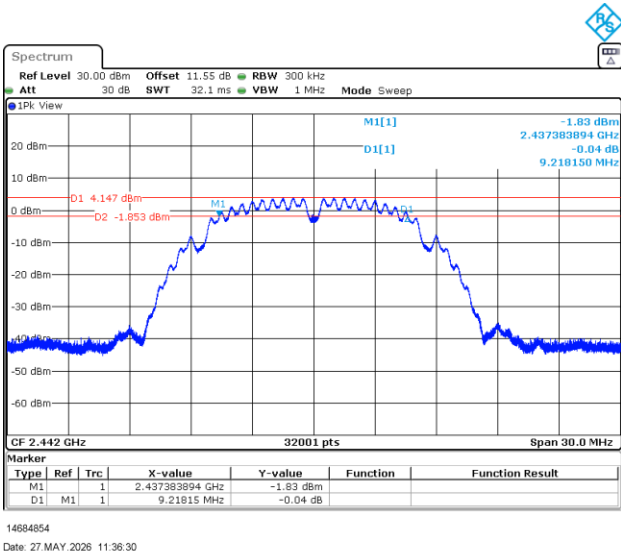
Transmitter Minimum 6 dB Bandwidth (continued)

Results: 802.11b / 1Mbps / PWR 13

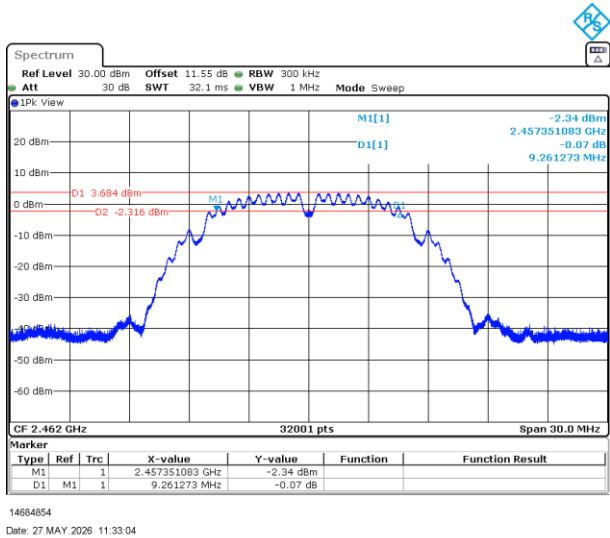
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	9632.512	≥ 500	9132.51	Complied
Middle	9218.150	≥ 500	8718.15	Complied
Top	9261.273	≥ 500	8761.27	Complied



Bottom Channel



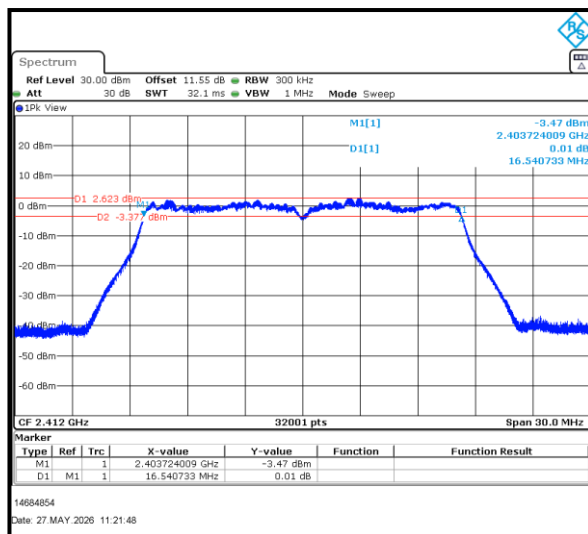
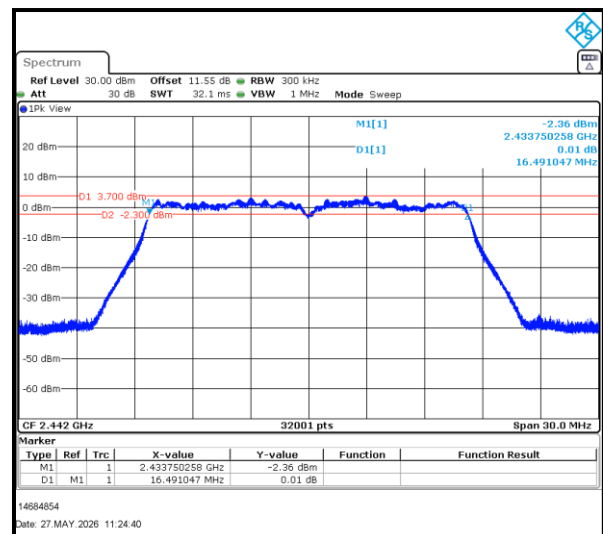
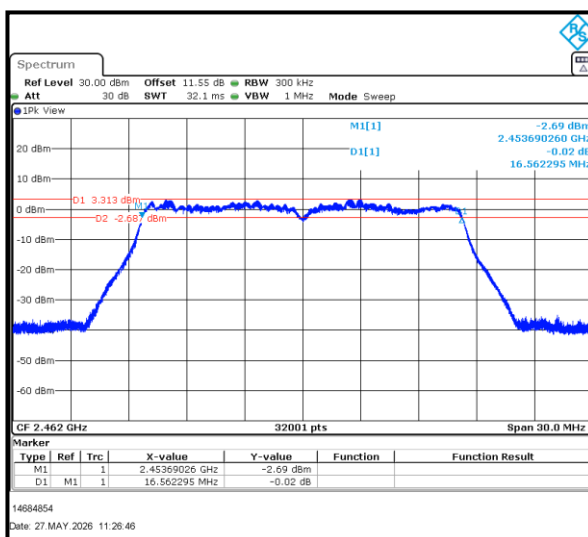
Middle Channel



Top Channel

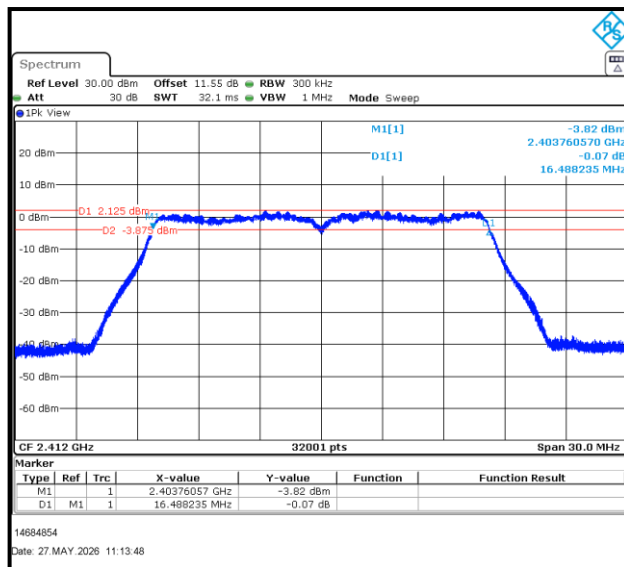
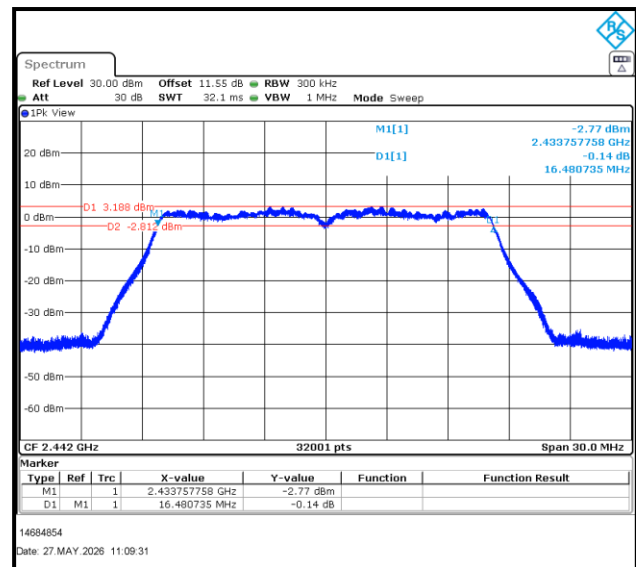
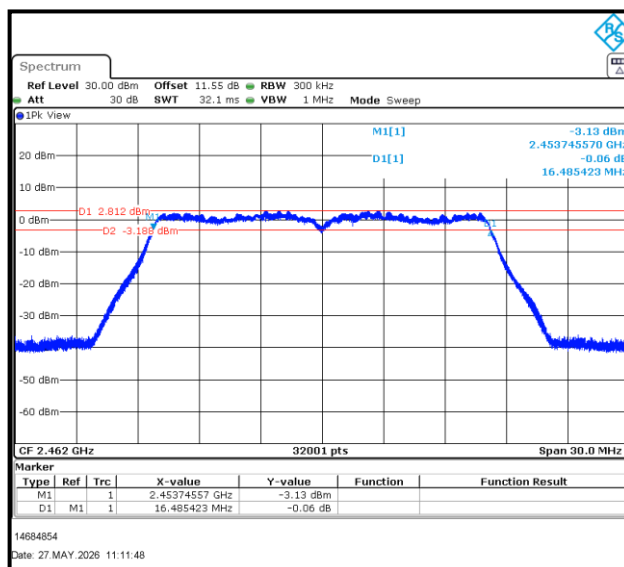
Transmitter Minimum 6 dB Bandwidth (continued)**Results: 802.11g / 24Mbps / PWR 13**

Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	16540.733	≥ 500	16040.73	Complied
Middle	16491.047	≥ 500	15991.05	Complied
Top	16562.295	≥ 500	16062.30	Complied

**Bottom Channel****Middle Channel****Top Channel**

Transmitter Minimum 6 dB Bandwidth (continued)**Results: 802.11n HT20 / MCS06 / PWR 13**

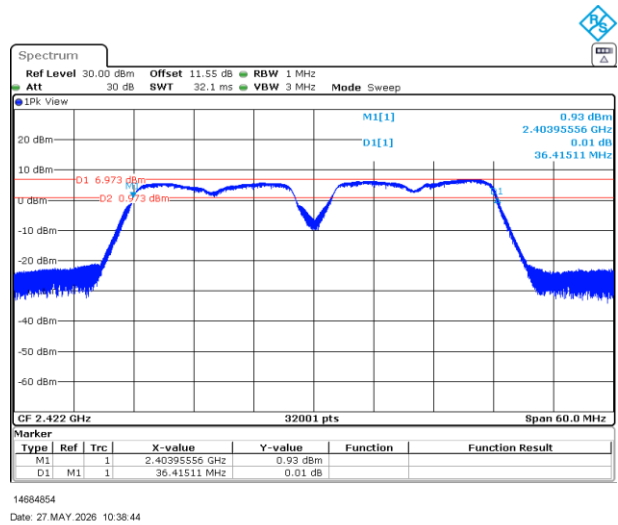
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	16488.235	≥ 500	15988.24	Complied
Middle	16480.735	≥ 500	15980.74	Complied
Top	16485.423	≥ 500	15985.42	Complied

**Bottom Channel****Middle Channel****Top Channel**

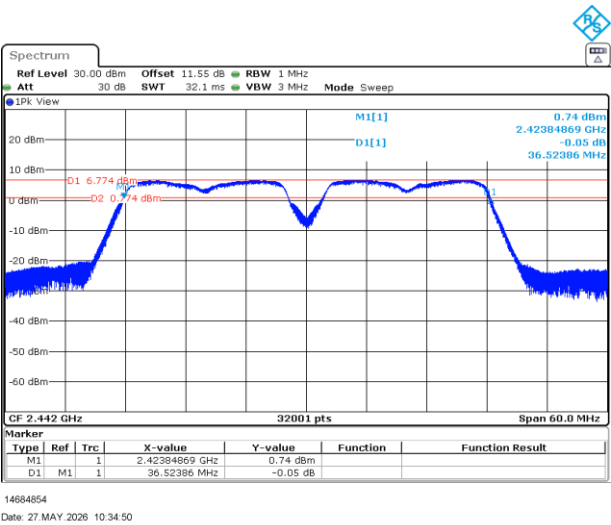
Transmitter Minimum 6 dB Bandwidth (continued)

Results: 802.11n HT40 / MCS03 / PWR 13

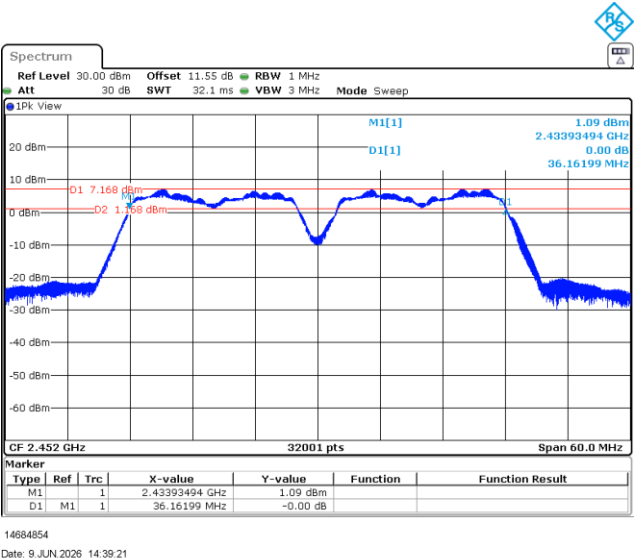
Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	36415.11	≥ 500	35915.11	Complied
Middle	36523.86	≥ 500	36023.86	Complied
Top	36161.99	≥ 500	36046.36	Complied



Bottom Channel



Middle Channel



Top Channel

4.3 Transmitter Maximum Peak Output Power

Test Summary:

Test Engineer:	Abbas Al-Hussainy	Test Date:	28 July 2023
Test Sample Serial Number:	111909+111934 (Conducted Test Sample)		

FCC Reference:	Part 15.247(b)(3)
ISED Canada Reference:	RSS-Gen 6.12 / RSS-247 5.4(d)
Test Method Used:	FCC KDB 558074 Section 8.3.1.3 referencing ANSI C63.10 Section 11.9.1.2 and Notes below

Environmental Conditions:

Temperature (°C):	22.7
Relative Humidity (%):	67.4

Note(s):

1. The EUT was transmitting at >98% duty cycle and testing was performed in accordance with ANSI C63.10 Section 11.9.1.2 Method PKPM1. The broadband peak RF power meter (VBW $\geq$ EUT's DTS Bandwidth) was used to measure the signal power.
2. The power meter was connected to the RF port on the EUT using suitable attenuation and RF cable.
3. The conducted power was added to the declared antenna gain to obtain the EIRP.

Transmitter Maximum Peak Output Power (continued)**Results:****Internal Antenna:**

Operational mode:	b-mode		
Channel no.:	1	6	11
b-mode			
1MBit	12.180	12.210	12.313
2MBit	12.202	12.211	12.293
5.5MBit	11.923	11.933	12.008
11MBit	12.006	12.024	12.104
Limits [dBm]	30.00		
Limit Check:	Limit Check:		
Highest conducted power value over channels and modulations:	12.31		
Path loss	0.7		
Declared antenna Gain max:	4.89		
EIRP	17.90		
EIRP Limit	36		
Margin to Limit EIRP:	18.10		
Verdict:	Pass		

Operational mode:	g-mode		
Channel no.:	1	6	11
g-mode			
6Mbit	11.897	11.914	11.996
9Mbit	11.951	11.970	12.044
12Mbit	11.952	11.962	12.049
18Mbit	11.957	11.981	12.056
24Mbit	12.005	12.030	12.100
36Mbit	11.889	11.914	11.990
48Mbit	11.922	11.948	12.014
54Mbit	11.968	11.987	12.062
Limits [dBm]	30.00		
Limit Check:	Limit Check:		
Highest conducted power value over channels and modulations:	12.10		
Path loss	0.7		
Declared antenna Gain max:	4.89		
EIRP	17.69		
EIRP Limit	36		
Margin to Limit EIRP:	18.31		
Verdict:	Pass		

Transmitter Maximum Peak Output Power (continued)**Results:****Internal Antenna:**

Operational mode:	n-mode (20 MHz)		
Channel no.:	1	6	11
n-mode			
MCS0	12.048	12.065	12.150
MCS1	11.985	12.022	12.087
MCS2	12.116	12.141	12.214
MCS3	12.140	12.158	12.232
MCS4	12.145	12.171	12.244
MCS5	12.167	12.183	12.254
MCS6	12.171	12.195	12.268
MCS7	12.153	12.170	12.247
Limits [dBm]	30.00		
Limit Check:	Limit Check:		
Highest conducted power value over channels and modulations:	12.268		
Path loss	0.70		
Declared antenna Gain max:	4.89		
EIRP	17.86		
EIRP Limit	36		
Margin to Limit EIRP:	18.14		
Verdict:	Pass		

Operational mode:	n-mode (40 MHz)		
Channel no.:	3	6	9
n-mode			
MCS0	11.932	11.982	12.048
MCS1	11.933	11.986	12.055
MCS2	11.938	11.994	12.060
MCS3	12.006	12.060	12.127
MCS4	11.971	12.027	12.088
MCS5	11.994	12.052	12.112
MCS6	11.995	12.051	12.110
MCS7	11.967	12.025	12.082
Limits [dBm]	30.00		
Limit Check:	Limit Check:		
Highest conducted power value over channels and modulations:	12.127		
Path loss	0.70		
Declared antenna Gain max:	4.89		
EIRP	17.72		
EIRP Limit	36		
Margin to Limit EIRP:	18.28		
Verdict:	Pass		

Transmitter Maximum (Peak) Output Power (continued)**Results: WLAN 2.4GHz****External Antenna:**

Operational mode:	b-mode		
Channel no.:	1	6	11
b-mode			
1MBit	12.180	12.210	12.313
2MBit	12.202	12.211	12.293
5.5MBit	11.923	11.933	12.008
11MBit	12.006	12.024	12.104
Limits [dBm]	30.00		
Limit Check:	Limit Check:		
Highest conducted power value over channels and modulations:	12.313		
Path loss	0.70		
Declared antenna Gain max:	2.89		
EIRP	15.90		
EIRP Limit	36		
Margin to Limit EIRP:	20.10		
Verdict:	Pass		

Operational mode:	g-mode		
Channel no.:	1	6	11
g-mode			
6Mbit	11.897	11.914	11.996
9Mbit	11.951	11.970	12.044
12Mbit	11.952	11.962	12.049
18Mbit	11.957	11.981	12.056
24Mbit	12.005	12.030	12.100
36Mbit	11.889	11.914	11.990
48Mbit	11.922	11.948	12.014
54Mbit	11.968	11.987	12.062
Limits [dBm]	30.00		
Limit Check:	Limit Check:		
Highest conducted power value over channels and modulations:	12.100		
Path loss	0.70		
Declared antenna Gain max:	2.89		
EIRP	15.69		
EIRP Limit	36		
Margin to Limit EIRP:	20.31		
Verdict:	Pass		

Transmitter Maximum (Peak) Output Power (continued)**Results: WLAN 2.4GHz****External Antenna:**

Operational mode:	n-mode (20 MHz)		
Channel no.:	1	7	11
n-mode			
MCS0	12.048	12.065	12.150
MCS1	11.985	12.022	12.087
MCS2	12.116	12.141	12.214
MCS3	12.140	12.158	12.232
MCS4	12.145	12.171	12.244
MCS5	12.167	12.183	12.254
MCS6	12.171	12.195	12.268
MCS7	12.153	12.170	12.247
Limits [dBm]	30.00		
Limit Check:	Limit Check:		
Highest conducted power value over channels and modulations:	12.268		
Path loss	0.70		
Declared antenna Gain max:	2.89		
EIRP	15.858		
EIRP Limit	36		
Margin to Limit EIRP:	20.142		
Verdict:	Pass		

Operational mode:	n-mode (40 MHz)		
Channel no.:	3	7	11
n-mode			
MCS0	11.932	11.982	12.048
MCS1	11.933	11.986	12.055
MCS2	11.938	11.994	12.060
MCS3	12.006	12.060	12.127
MCS4	11.971	12.027	12.088
MCS5	11.994	12.052	12.112
MCS6	11.995	12.051	12.110
MCS7	11.967	12.025	12.082
Limits [dBm]	30.00		
Limit Check:	Limit Check:		
Highest conducted power value over channels and modulations:	12.127		
Path loss	0.70		
Declared antenna Gain max:	2.89		
EIRP	15.717		
EIRP Limit	36		
Margin to Limit EIRP:	20.283		
Verdict:	Pass		

4.4 Transmitter Power Spectral Density

Test Summary:

Test Engineer:	Omar El Moghrabi	Test Date:	27 May 2026
Test Sample Serial Number:	111909+111934 (Conducted Test Sample)		

FCC Reference:	Part 15.247(e)
ISED Canada Reference:	RSS-247 5.2(b)
Test Method Used:	FCC KDB 558074 Section 8.4 referencing ANSI C63.10 Section 11.10.2

Environmental Conditions:

Temperature (°C):	23.4
Relative Humidity (%):	45.1

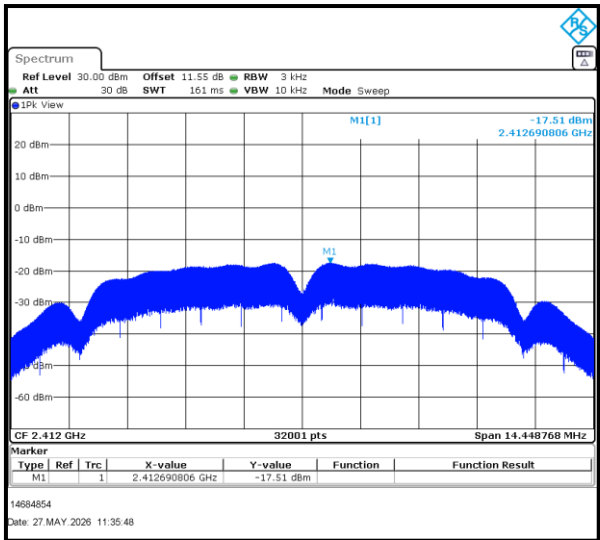
Note(s):

1. Transmitter Power Spectral Density tests were performed using a signal analyser in accordance with ANSI C63.10 Section 11.10.2.
2. The signal analyser resolution bandwidth was set to 3 kHz and video bandwidth 10 kHz. A Peak detector was used and sweep time was set to Auto. The span was set to 1.5 times the DTS bandwidth. The highest peak of the measured signal was recorded.
3. The signal analyser was connected to the RF port on the EUT using suitable attenuation and RF cable. An RF level offset was entered on the signal analyser to compensate for the loss of the attenuator and RF cable.

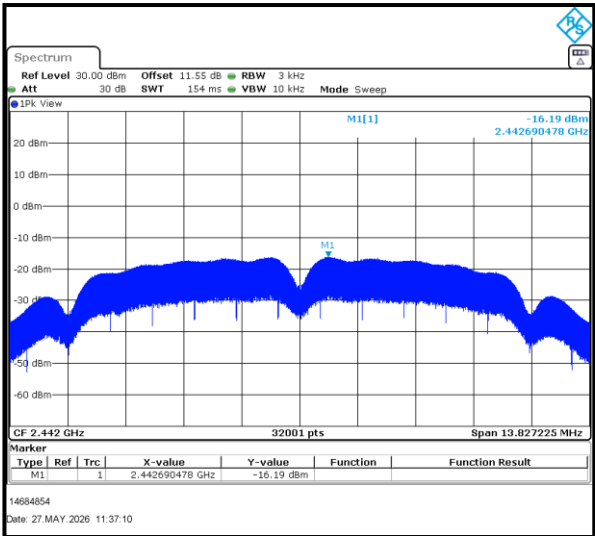
Transmitter Power Spectral Density (continued)

Results: 802.11b / 1Mbps / PWR 13

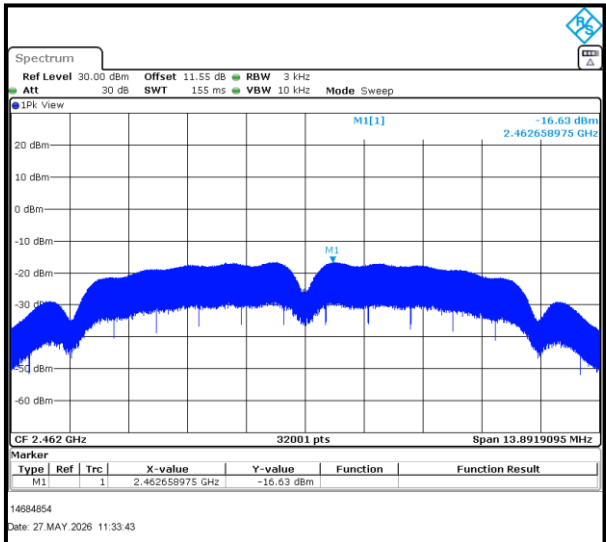
Channel	Output Power (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Margin (dB)	Result
Bottom	-17.51	8.0	25.51	Complied
Middle	-16.19	8.0	24.19	Complied
Top	-16.63	8.0	24.63	Complied



Bottom Channel



Middle Channel

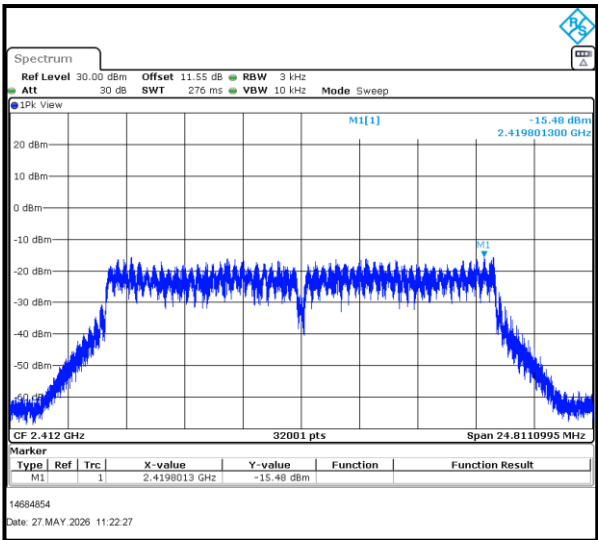


Top Channel

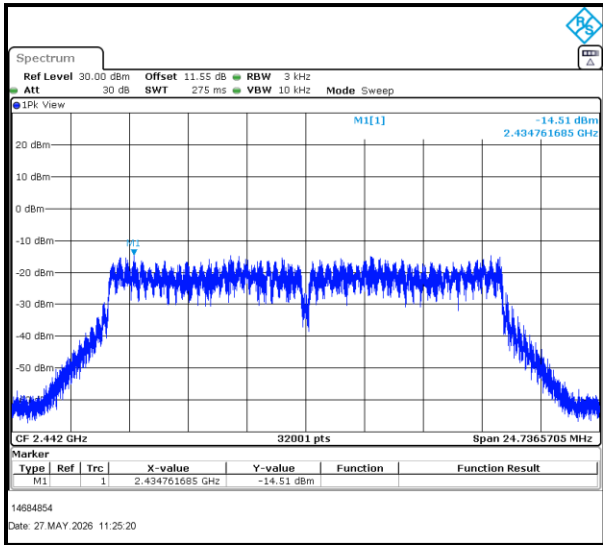
Transmitter Power Spectral Density (continued)

Results: 802.11g / 24Mbps / PWR 13

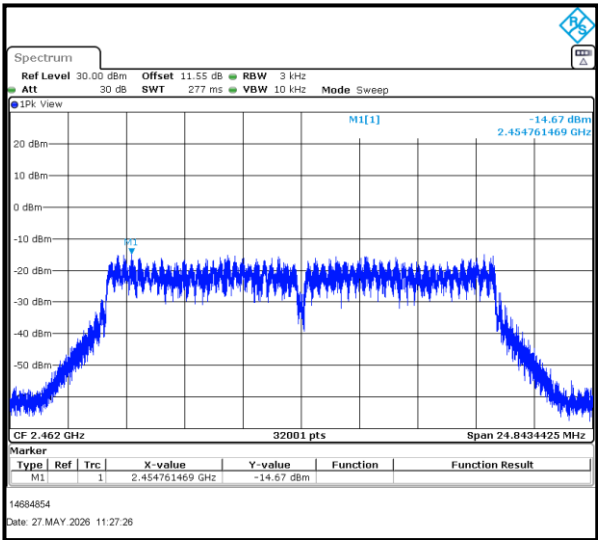
Channel	Output Power (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Margin (dB)	Result
Bottom	-15.48	8.0	23.48	Complied
Middle	-14.51	8.0	22.51	Complied
Top	-14.67	8.0	22.67	Complied



Bottom Channel



Middle Channel

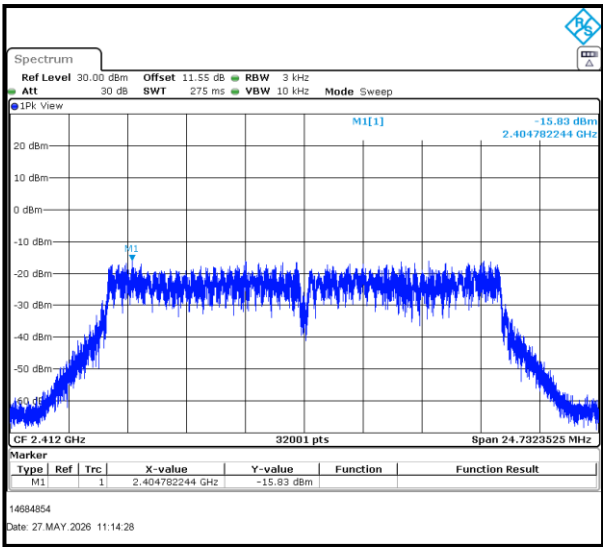


Top Channel

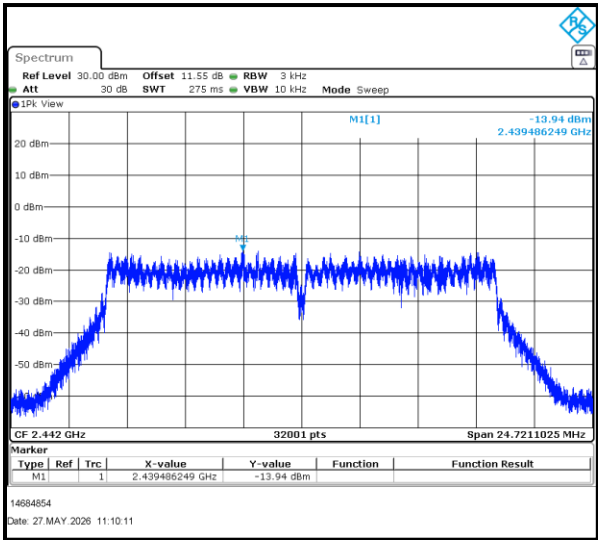
Transmitter Power Spectral Density (continued)

Results: 802.11n HT20 / MCS06 / PWR 13

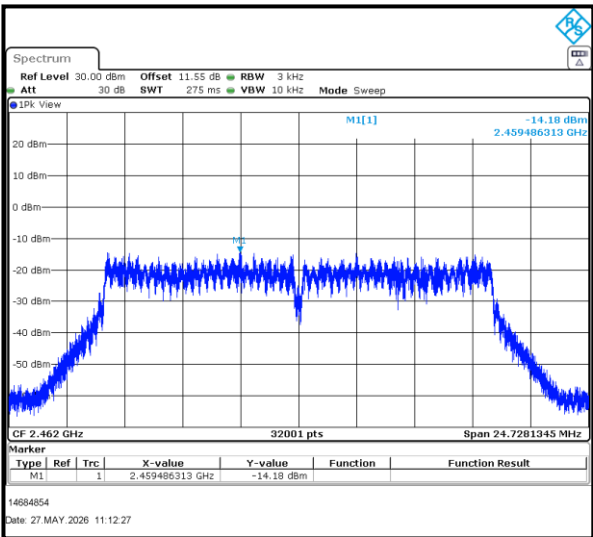
Channel	Output Power (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Margin (dB)	Result
Bottom	-15.83	8.0	23.83	Complied
Middle	-13.94	8.0	21.94	Complied
Top	-14.18	8.0	22.18	Complied



Bottom Channel



Middle Channel

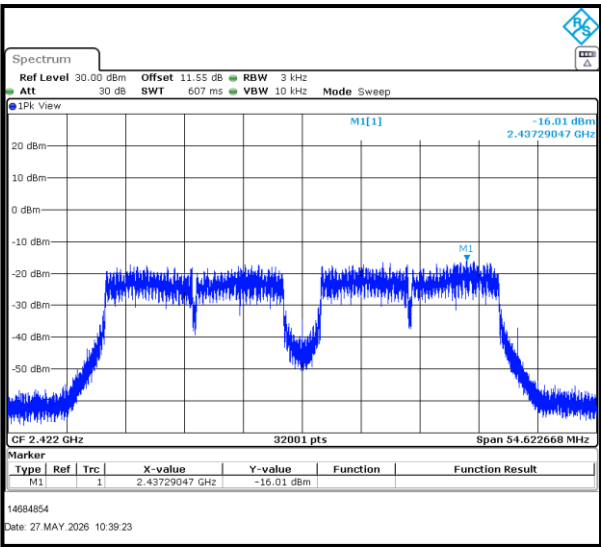


Top Channel

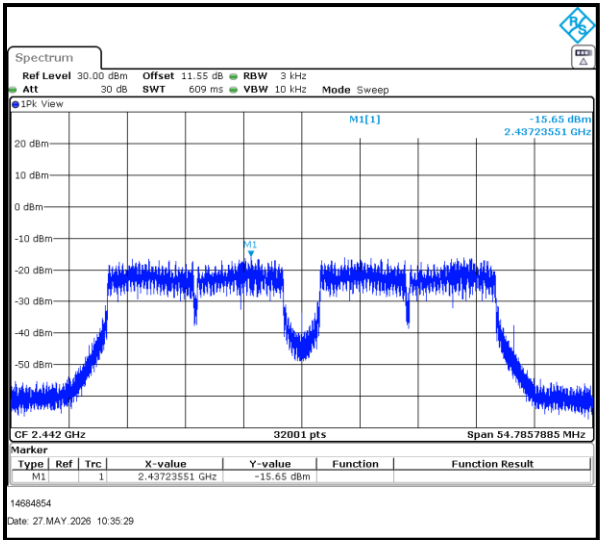
Transmitter Power Spectral Density (continued)

Results: 802.11n HT40 / MCS03 / PWR 13

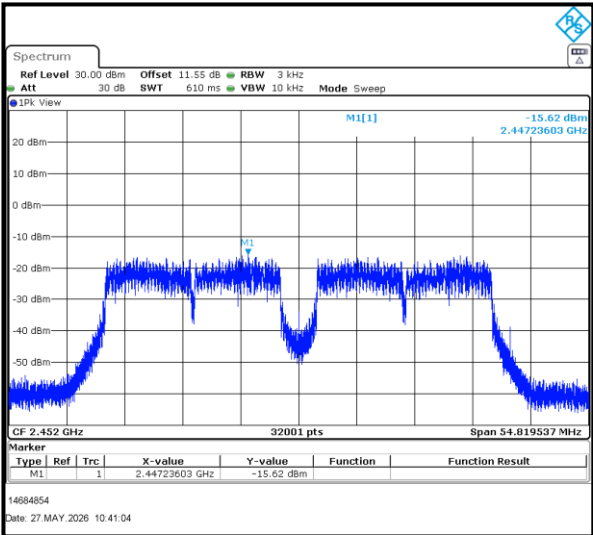
Channel	Output Power (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Margin (dB)	Result
Bottom	-16.01	8.0	24.01	Complied
Middle	-15.65	8.0	23.65	Complied
Top	-15.62	8.0	23.62	Complied



Bottom Channel



Middle Channel



Top Channel

4.5 Radiated Test Results

4.6 Transmitter Radiated Emissions <1 GHz

Test Summary:

Test Engineer:	Abbas Al-Hussainy	Test Date:	03 August 2023
Test Sample Serial Number:	111909+111934 (Radiated Test Sample)		

FCC Reference:	Parts 15.247(d) & 15.209(a)
ISED Canada Reference:	RSS-Gen 6.13 & 8.9 / RSS-247 5.5
Test Method Used:	ANSI C63.10 Sections 6.3, 6.4 and 6.5
Frequency Range	9kHz-1000MHz

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	54

Note(s):

- The final measured value, for the given emission, in the table below incorporates the calibrated antenna factor and cable loss.
- No spurious emissions were detected above the noise floor of the measuring receiver therefore the highest peak and average noise floor readings of the measuring receiver were recorded as shown in the tables below.
- The preliminary scans showed similar emission levels below 1 GHz, for each channel of operation. Therefore final radiated emissions measurements were performed with the EUT set to below mode:
 - 802.11b | 1 Mbps | Top Channel
- Measurements below 30 MHz were performed in a semi-anechoic chamber (Asset Number 1603665) at 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. The measured values were extrapolated to 3 metres in accordance with ANSI C63.10 clause 6.4.3 using the method described in clause 6.4.4.2. ANSI C63.10 clause 5.2 states an alternative test site that can demonstrate equivalence to an open area test site may be used for measurements below 30 MHz. Therefore, measurements were performed in a semi-anechoic chamber. The correlation data between semi-anechoic chamber and an open field test site is available upon request.
- FCC rule part 15.209(a) specifies limits at 300 m / 30 m in $\mu\text{V/m}$ but RSS GEN specifies limits at 300 m / 30 m in $\mu\text{A/m}$. The relevant limits are the same after accounting for E-field to H-field correction. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table). According to Notice 2020-DRS0023 converting the magnetic field strength into electrical field strength using the following equation while considering free space impedance of 377Ω results in a factor of 51.5 dB Ω .

$$AF^E [\text{dB}(\text{m}^{-1})] = AF^H [\text{dB}(\Omega^{-1}\text{m}^{-1})] + Z_0[\text{dB}\Omega]$$

For example, the measurement frequency X KHz resulted in a level of Y dB $\mu\text{V/m}$, which is equivalent to $Y - 51.5 = Z$ dB $\mu\text{A/m}$, which has the same margin, W dB, to the corresponding RSS-GEN Section 8.9, Table 6 limit as it has to the 15.209(a) limit.

6. The limits are specified at a test distances of 30 and 300 metres. However, as specified in FCC Section 15.31 (f)(2) & ANSI C63.10 clause 6.4.3, measurements may be performed at a closer distance and the measured level extrapolated to the specified measurement distance using the method described in clauses 6.4.4, specifically sub-clause 6.4.4.1 which specifies that the measured level shall be extrapolated to the specified distance by conservatively presuming that the field strength decays at 40 dB/decade.

Therefore, measurements were performed at a measurement distance of 3 m.

The measured values at 3 m were extrapolated to the required measurement distances of 300 m and 30 m and compared the specified limits at those distances as follows:

- 9 kHz- 490 kHz: measured value extrapolated from 3 m to 300 m by subtracting 80 dB at 40 dB /decade.

- 490 kHz-30 MHz: measured value extrapolated from 3 m to 30 m by subtracting 40 dB at 40 dB /decade.

The results table shows both the measured levels at 3 m and the same measurement values extrapolated to the actual measurement distance for the limits specified at 30 and 300 metres.

Conversely, the limit line shown on the spectrum plot was extrapolated to 3 m from 300 m and 30 m using the 40 dB /decade rule.

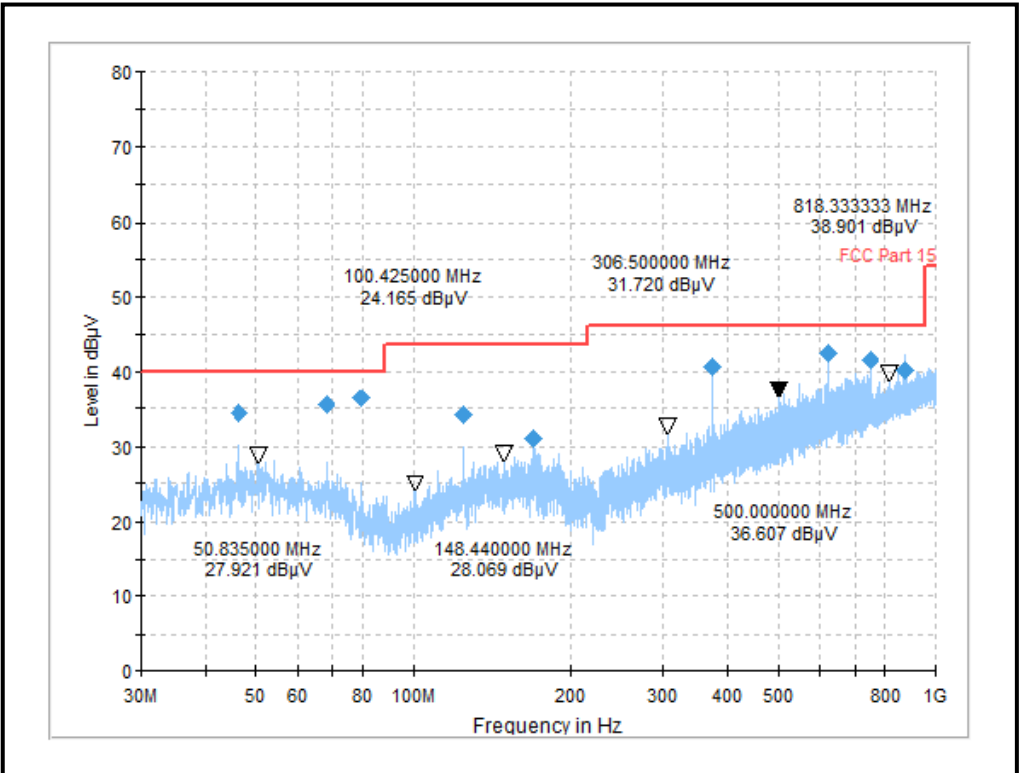
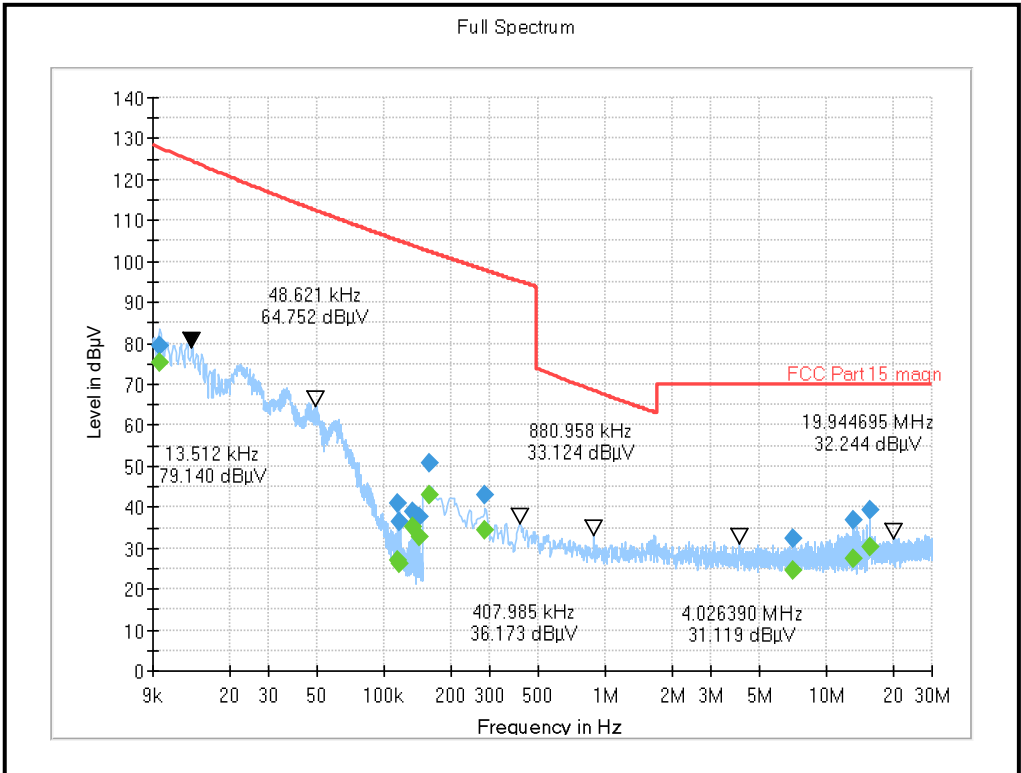
7. Measurements from below 1 GHz were performed in a semi-anechoic chamber (Asset Number 1603665) at a distance of 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.
8. Pre-scans were performed and markers placed on the highest measured levels. The test receiver was configured as follows: During 9 kHz to 150 kHz tests, the resolution bandwidth was set to 300 Hz and video bandwidth 1 kHz. A peak detector was used and trace mode was Max Hold. For 150 kHz to 490 kHz, the resolution bandwidth was set to 10 kHz and video bandwidth 30 kHz. An average detector was used and trace mode was Max Hold. For 490 kHz to 30 MHz, the resolution bandwidth was set to 10 kHz and video bandwidth 30 kHz. A peak detector was used and trace mode was Max Hold.
9. For 30 MHz to 1 GHz, the resolution bandwidth was set to 120 kHz and video bandwidth 500 kHz. A peak detector was used, sweep time was set to auto and trace mode was Max Hold. Final measurements were performed on the marker frequencies and the results entered into the table below. The test receiver resolution bandwidth was set to 120 kHz, using a CISPR quasi-peak detector and span wide enough to see the whole emission.

Transmitter Radiated Emissions (continued)**Result External Antenna****Results: Quasi-Peak / Top Channel / 802.11b / 1Mbps / PWR 13****9kHz to 30MHz**

Frequency (MHz)	Antenna Polarity	Level@3m (dBμV/m)	Level extrapolated (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
0.009635	90° to the EUT	79.34	-0.66	47.81	48.47	Complied
0.114468	0° to the EUT	40.95	-39.05	25.18	64.23	Complied
0.117852	0° to the EUT	36.47	-43.53	24.94	68.47	Complied
0.135195	0° to the EUT	38.85	-41.15	23.81	64.96	Complied
0.144783	0° to the EUT	37.72	-42.28	23.25	65.53	Complied
0.159923	0° to the EUT	50.84	-29.16	22.45	51.61	Complied
0.285608	0° to the EUT	43.02	-36.98	17.87	54.85	Complied
7.108438	90° to the EUT	32.54	-7.46	30.00	37.46	Complied
13.224500	90° to the EUT	36.79	-3.21	30.00	33.21	Complied
15.765390	90° to the EUT	39.21	-0.79	30.00	30.79	Complied

30MHz to 1 GHz

Frequency (MHz)	Antenna Polarization	MaxPeak Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
46.425000	Vertical	34.37	40.00	5.63	Complied
68.070000	Vertical	35.54	40.00	4.46	Complied
79.410000	Vertical	36.40	40.00	3.60	Complied
124.995000	Vertical	34.17	43.50	9.33	Complied
170.085000	Vertical	30.97	43.50	12.54	Complied
374.966667	Vertical	40.67	46.00	5.33	Complied
625.000000	Vertical	42.54	46.00	3.46	Complied
750.000000	Vertical	41.55	46.00	4.45	Complied
874.958333	Vertical	40.23	46.00	5.77	Complied



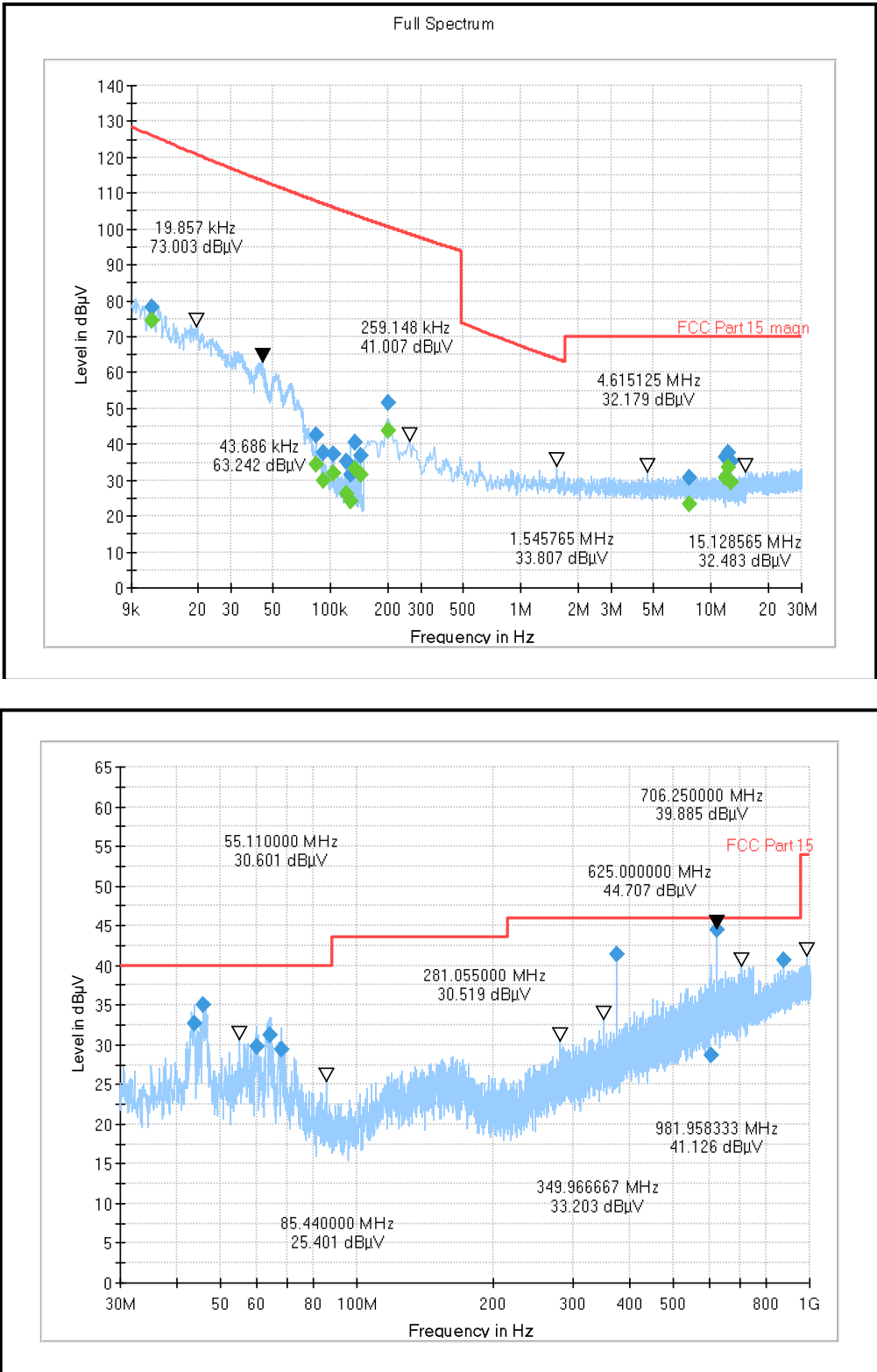
Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying table.

Result Internal Antenna**Results: Quasi-Peak / Top Channel / 802.11b/ 1Mbps / PWR 13****9kHz to 30MHz**

Frequency (MHz)	Antenna Polarity	Level@3m (dB μ V/m)	Level extrapolated (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
0.011397	90° to the EUT	78.22	-1.78	46.13	47.91	Complied
0.084153	0° to the EUT	42.53	-37.47	27.76	65.23	Complied
0.090921	0° to the EUT	37.56	-42.44	27.11	69.54	Complied
0.103893	0° to the EUT	37.27	-42.73	25.99	68.72	Complied
0.120038	90° to the EUT	35.06	-44.94	24.79	69.73	Complied
0.127934	90° to the EUT	31.54	-48.46	24.26	72.72	Complied
0.135336	90° to the EUT	40.73	-39.27	23.8	63.07	Complied
0.144713	90° to the EUT	36.95	-43.05	23.26	66.31	Complied
0.199613	90° to the EUT	51.63	-28.37	20.67	49.04	Complied
7.642535	90° to the EUT	30.71	-9.29	30.00	39.29	Complied
11.887945	90° to the EUT	36.54	-3.46	30.00	33.46	Complied
12.290760	90° to the EUT	37.83	-2.17	30.00	32.17	Complied
12.695955	0° to the EUT	35.14	-4.86	30.00	34.86	Complied

30MHz to 1 GHz

Frequency (MHz)	Antenna Polarization	MaxPeak Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
43.770000	Vertical	32.63	40.00	7.37	Complied
45.705000	Vertical	35.12	40.00	4.88	Complied
60.060000	Vertical	29.69	40.00	10.31	Complied
64.380000	Vertical	31.23	40.00	8.77	Complied
68.205000	Vertical	29.40	40.00	10.60	Complied
375.000000	Vertical	41.34	46.00	4.66	Complied
606.791667	Vertical	28.70	46.00	17.30	Complied
625.000000	Vertical	44.70	46.00	1.30	Complied
874.958333	Vertical	40.69	46.00	5.31	Complied



Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying table.

4.7 Transmitter Radiated Emissions >1 GHz

Test Summary:

Test Engineer:	Abbas Al-Hussainy	Test Date:	02 & 03 August 2023
Test Sample Serial Number:	111909+111934 (Radiated Test Sample)		

FCC Reference:	Parts 15.247(d) & 15.209(a)
ISED Canada Reference:	RSS-Gen 6.13 & 8.9 / RSS-247 5.5
Test Method Used:	FCC KDB 558074 Sections 8.1 c)3), 8.5 & 8.6 referencing ANSI C63.10 Sections 6.3, 6.6, 11.11 & 11.12
Frequency Range	1 GHz to 25 GHz

Environmental Conditions:

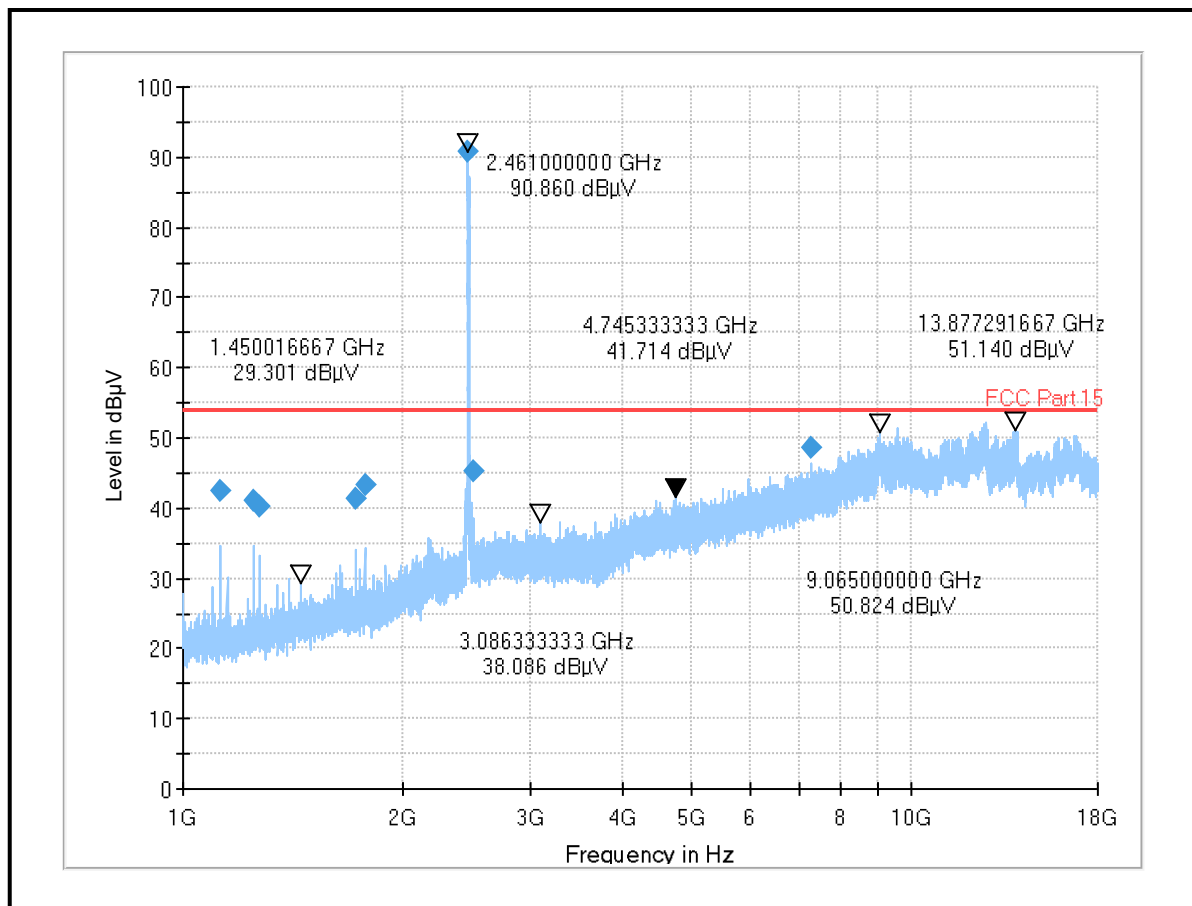
Temperature (°C):	23 to 24
Relative Humidity (%):	52 to 54

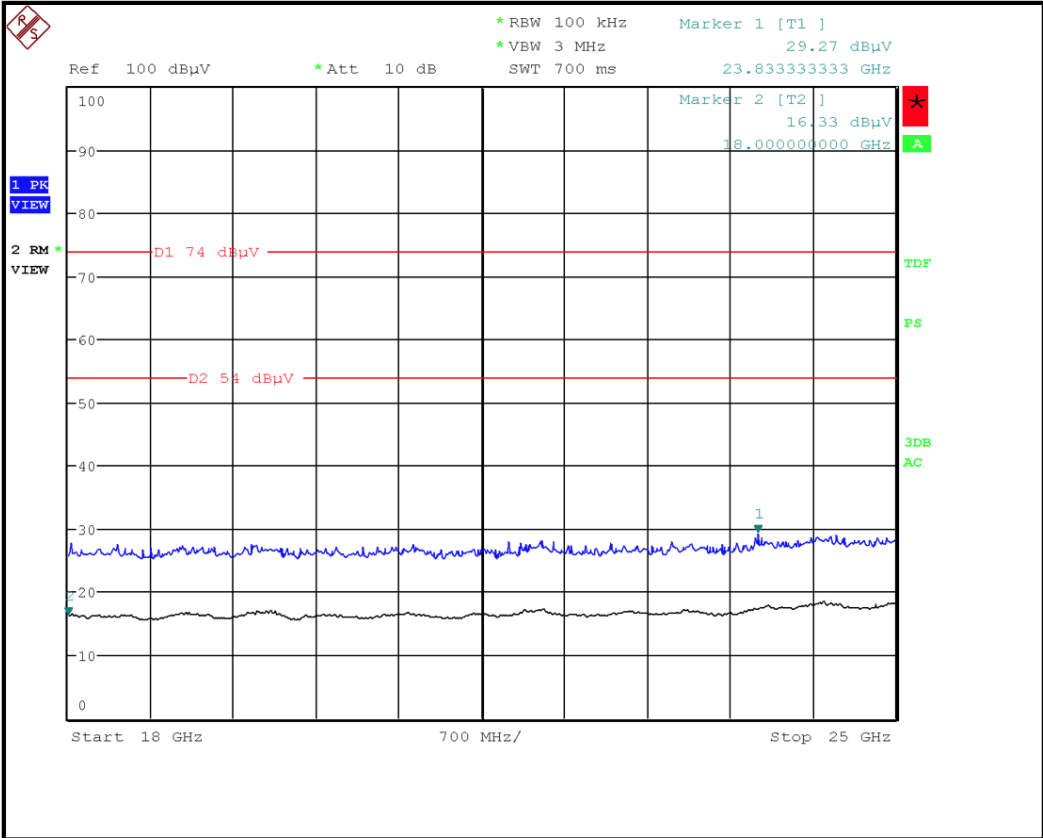
Note(s):

1. The final measured value, for the given emission, in the table below incorporates the calibrated antenna factor and cable loss.
2. No spurious emissions were detected above the noise floor of the measuring receiver therefore the highest peak and average noise floor readings of the measuring receiver were recorded as shown in the tables below.
3. All other emissions shown on the pre-scans were investigated and found to be ambient, or > 20 dB below the appropriate limit or below the noise floor of the measurement system.
4. The emission shown on the 1 GHz to 3 GHz plot is the EUT fundamental.
5. *In accordance with ANSI C63.10 Section 6.6.4.3, Note 1, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
6. Pre-scans above 1 GHz were performed in a fully anechoic chamber (Asset Number 1603665) at a distance of 3 metres. The EUT was placed at a height of 1.5 metres above the test chamber floor in the centre of the chamber turntable. All measurement antennas were placed at a fixed height of 1.5 metres above the test chamber floor, in line with the EUT.
7. Final measurements above 1 GHz up to 18GHz were performed in a semi-anechoic chamber (Asset Number 1603665) at a distance of 3 metres. The EUT was placed at a height of 1.5 m above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.
8. In accordance with ANSI C63.10 section 5.3.3 & 6.5.3 measurements above 18 GHz were performed at closer distance @1m without height scan; because at specified measurement distance (3m) for compliance the instrumentation noise floor was typically close to the radiated emission limit.
9. Pre-scans were performed and a marker placed on the highest measured level of the appropriate plot. The test receiver resolution bandwidth was set to 1 MHz and video bandwidth 3 MHz. The sweep time was set to auto. Peak and average measurements were performed with their own appropriate detectors during the pre-scan measurements.

Transmitter Radiated Emissions >1 GHz (continued)**Results: External antenna / Top Channel / Peak / 802.11b/ 1Mbps / PWR 13**

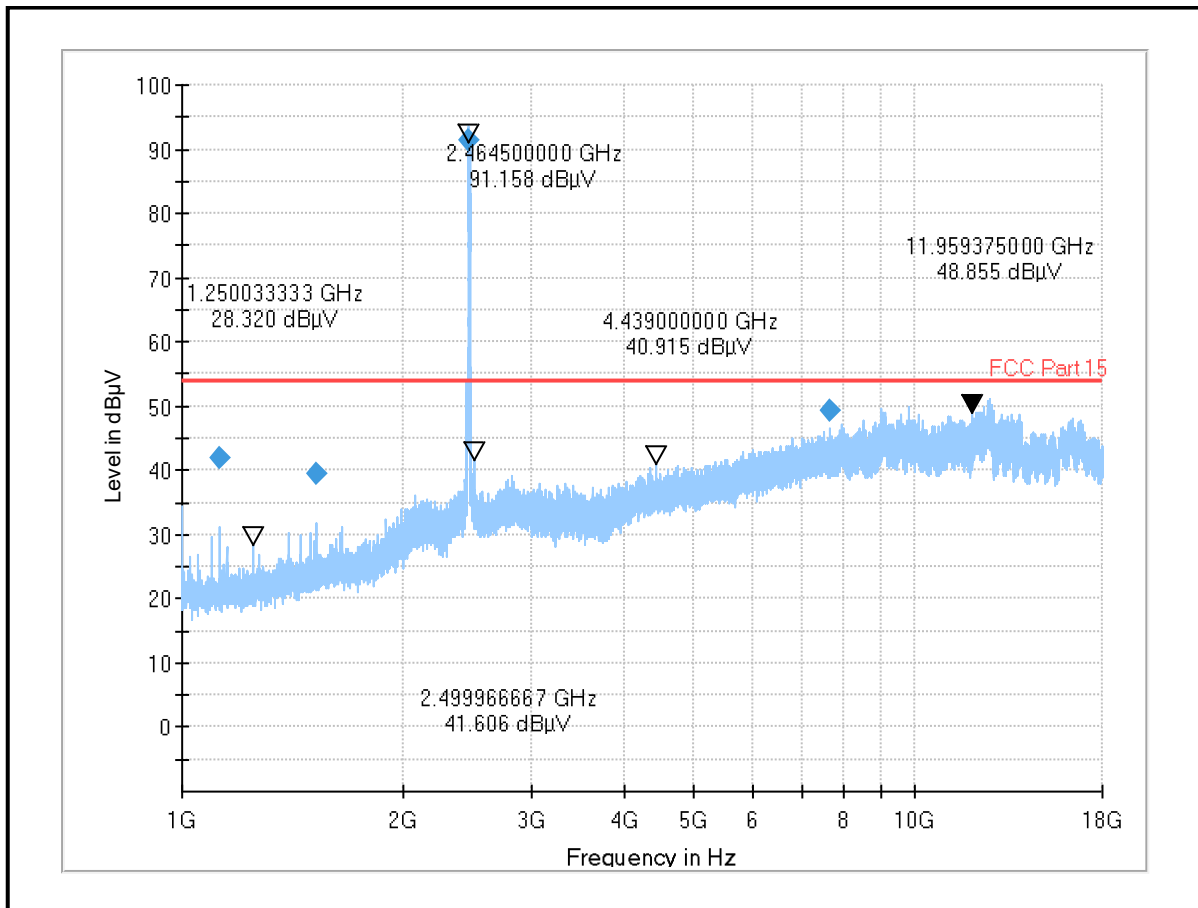
Frequency (MHz)	Antenna Polarization	Peak Level (dB μ V/m)	Average Limit (dB μ V/m)	Margin (dB)	Result
1124.800000	Horizontal	42.42	54.00	11.58	Complied
1250.033333	Vertical	41.04	54.00	12.96	Complied
1274.950000	Vertical	40.21	54.00	13.79	Complied
1724.966667	Horizontal	41.31	54.00	12.69	Complied
1775.016667	Vertical	43.23	54.00	10.77	Complied
2499.966667	Horizontal	45.28	54.00	8.72	Complied
7293.000000	Horizontal	48.50	54.00	5.50	Complied

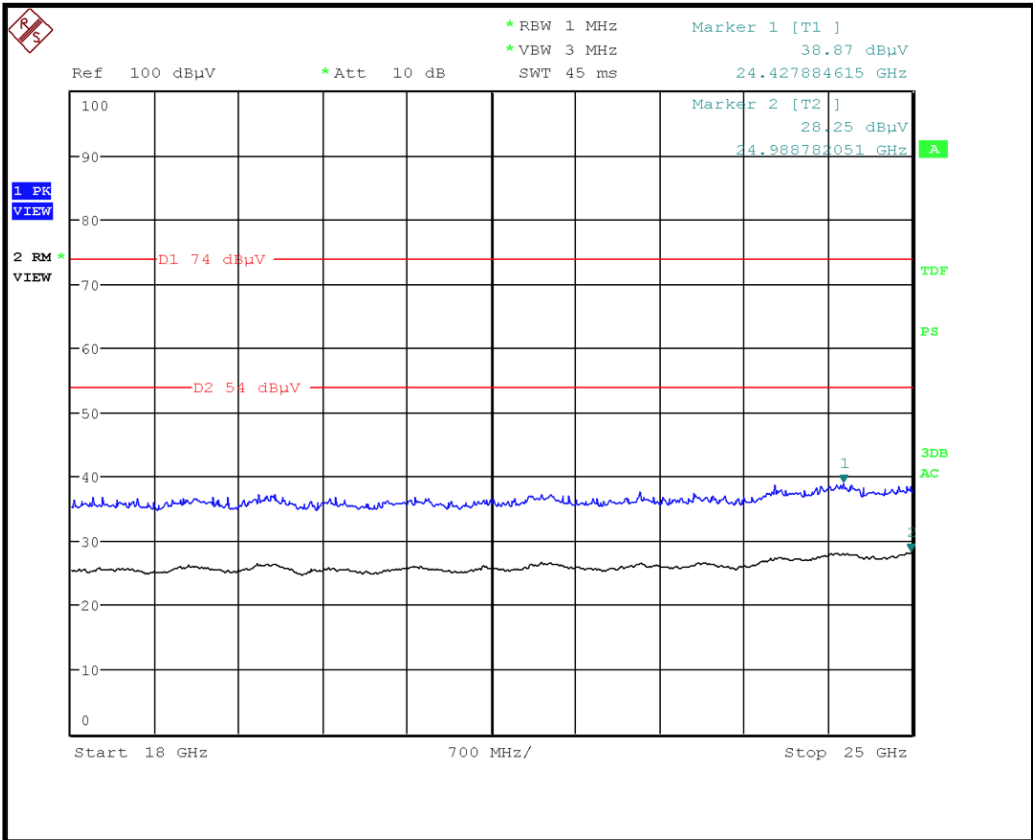




Results: Internal antenna / Top Channel / Peak / 802.11b/ 1Mbps / PWR 13

Frequency (MHz)	Antenna Polarization	Peak Level (dB μ V/m)	Average Limit (dB μ V/m)	Margin (dB)	Result
1124.800000	Horizontal	41.91	54.00	12.09	Complied
1524.983333	Horizontal	39.46	54.00	14.54	Complied
7630.000000	Vertical	49.21	54.00	4.79	Complied





Note: The plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

4.8 Transmitter Band Edge Radiated Emissions

Test Summary:

Test Engineer:	Abbas Al-Hussainy	Test Date:	03 August 2023
Test Sample Serial Number:	111909+111934 (Radiated Test Sample)		

FCC Reference:	Parts 15.247(d) & 15.209(a)
ISED Canada Reference:	RSS-Gen 6.13 / RSS-247 5.5
Test Method Used:	KDB 558074 Section 8.7 referencing ANSI C63.10 Sections 11.11 & 11.12

Environmental Conditions:

Temperature (°C):	23
Relative Humidity (%):	54

Note(s):

1. The final measured value, for the given emission, in the table below incorporates the calibrated antenna factor and cable loss.
2. As the lower band edge is adjacent to a non-restricted band, only peak measurements are required. In accordance with ANSI C63.10 Section 11.11.1, the test method in Section 11.11.3 was followed: the test receiver resolution bandwidth was set to 100 kHz and video bandwidth 300 kHz. A peak detector was used, sweep time was set to auto and trace mode was Max Hold. The test receiver was left to sweep for a sufficient length of time in order to maximise the carrier level and out-of-band emissions. A marker and corresponding reference level line were placed on the peak of the carrier. As the maximum peak conducted output power was measured using an peak detector in accordance with ANSI C63.10 Section 11.9.1.1 an out-of-band limit line was placed 20 dB (ANSI C63.10 Section 11.11.1(a)) below the peak level. A marker was placed on the band edge spot frequencies. Marker frequency and levels were recorded.
3. As the upper band edge is adjacent to a restricted band, both peak and average measurements were recorded by placing a marker at the edge of the band. For peak measurements the test receiver resolution bandwidth was set to 1 MHz and the video bandwidth 3 MHz. A peak detector was used, sweep time was set to auto and trace mode was Max Hold. For average measurements the test receiver resolution bandwidth was set to 1 MHz and the video bandwidth 3 MHz. An RMS detector was used, sweep time was set to auto and trace mode was Max Hold. A marker was placed on the band edge spot frequencies and a second marker placed on the highest emission level in the adjacent restricted band of operation (where a higher level emission was present). Marker frequencies and levels were recorded.
4. There is a restricted band 10 MHz below the lower band edge. The test receiver was set up as follows: the RBW set to 1 MHz, the VBW set to 3 MHz, with the sweep time set to auto couple. Peak and average measurements were performed with peak and RMS detectors respectively. Markers were placed on the highest point on each trace.
5. * -20 dBc limit.
6. ** As the continuous transmission of the EUT ($D \geq 98\%$) can be achieved and EUT was transmitting continuously with 100% duty cycle (+/- 2% tolerance). Duty Cycle Correction Factor was not added to all average measurements.

Transmitter Band Edge Radiated Emissions (continued)**External antenna****Results: 802.11b / 1Mbps / PWR 13****Results: Lower Band Edge / Peak**

Frequency (MHz)	Peak Level (dBμV/m)	-20 dBc Limit (dBμV/m)	Margin (dB)	Result
2398.00	48.20	74.16	25.96	Complied
2400.00	42.23	74.16	31.93	Complied

Results: Lower Band Edge / 2310 to 2390 MHz Restricted Band / Peak

Frequency (MHz)	Peak Level (dBμV/m)	Peak Limit (dBμV/m)	Margin (dB)	Result
2387.88	55.16	74.00	18.84	Complied

Results: Lower Band Edge / 2310 to 2390 MHz Restricted Band / Average

Frequency (MHz)	Average Level (dBμV/m)	Average Limit (dBμV/m)	Margin (dB)	Result
2387.80	44.07	54.00	9.93	Complied

Results: Upper Band Edge / Peak

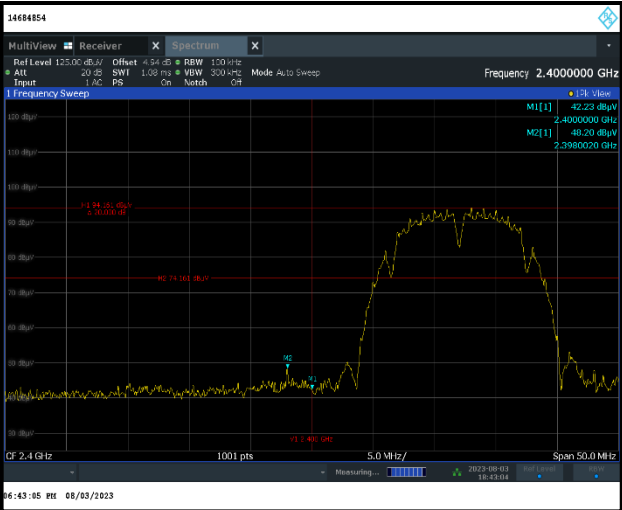
Frequency (MHz)	Peak Level (dBμV/m)	Peak Limit (dBμV/m)	Margin (dB)	Result
2483.50	53.61	74.00	10.39	Complied
2486.93	55.61	74.00	9.39	Complied

Results: Upper Band Edge / Average

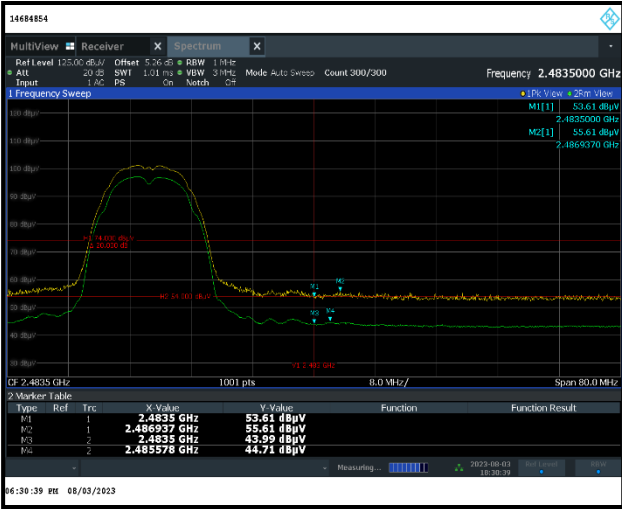
Frequency (MHz)	Average Level (dBμV/m)	Average Limit (dBμV/m)	Margin (dB)	Result
2483.50	43.99	54.00	10.01	Complied
2485.57	44.71	54.00	9.29	Complied

Transmitter Band Edge Radiated Emissions (continued)

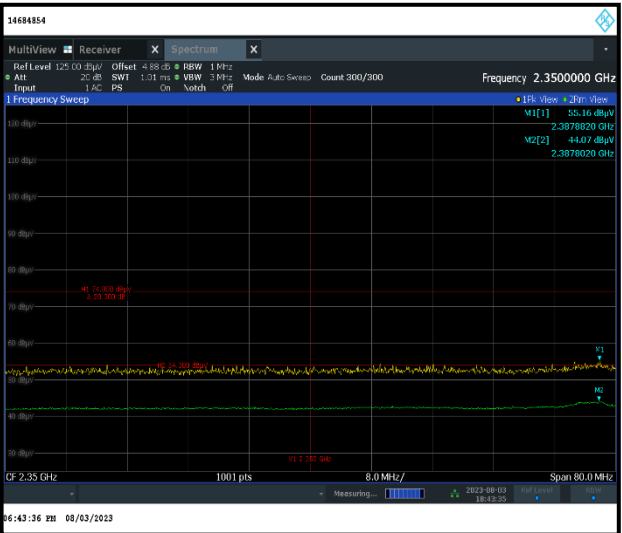
Results: External antenna 802.11b



Lower Band Edge Peak Measurement



Upper Band Edge Measurement



Restricted Band Edge Measurement

Transmitter Band Edge Radiated Emissions (continued)**Results: 802.11g / 24Mbps / PWR 13****Results: Lower Band Edge / Peak**

Frequency (MHz)	Peak Level (dBμV/m)	-20 dBc Limit (dBμV/m)	Margin (dB)	Result
2399.80	50.36	71.03	20.67	Complied
2400.00	50.76	71.03	20.27	Complied

Results: Lower Band Edge / 2310 to 2390 MHz Restricted Band / Peak

Frequency (MHz)	Peak Level (dBμV/m)	Peak Limit (dBμV/m)	Margin (dB)	Result
2389.96	57.97	74.00	16.03	Complied

Results: Lower Band Edge / 2310 to 2390 MHz Restricted Band / Average

Frequency (MHz)	Average Level (dBμV/m)	Average Limit (dBμV/m)	Margin (dB)	Result
2389.96	45.78	54.00	9.22	Complied

Results: Upper Band Edge / Peak

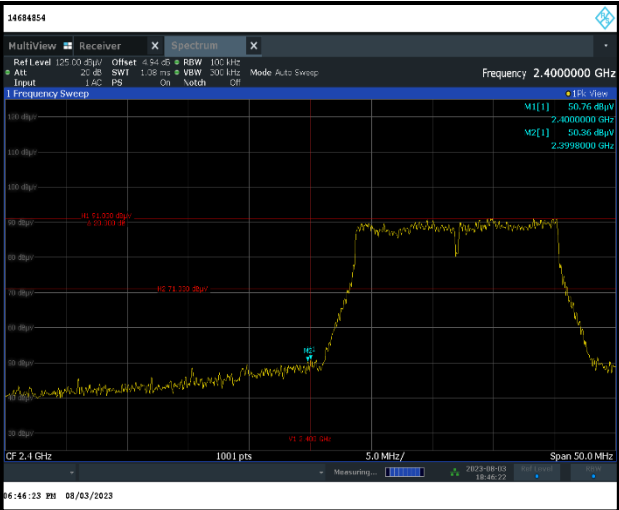
Frequency (MHz)	Peak Level (dBμV/m)	Peak Limit (dBμV/m)	Margin (dB)	Result
2483.50	60.22	74.00	13.88	Complied
2485.41	61.23	74.00	12.77	Complied

Results: Upper Band Edge / Average

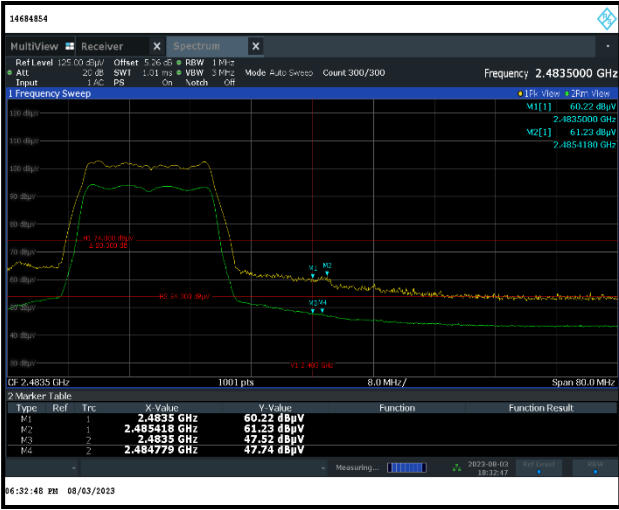
Frequency (MHz)	Average Level (dBμV/m)	Average Limit (dBμV/m)	Margin (dB)	Result
2483.50	47.52	54.00	6.48	Complied
2484.77	47.74	54.00	6.26	Complied

Transmitter Band Edge Radiated Emissions (continued)

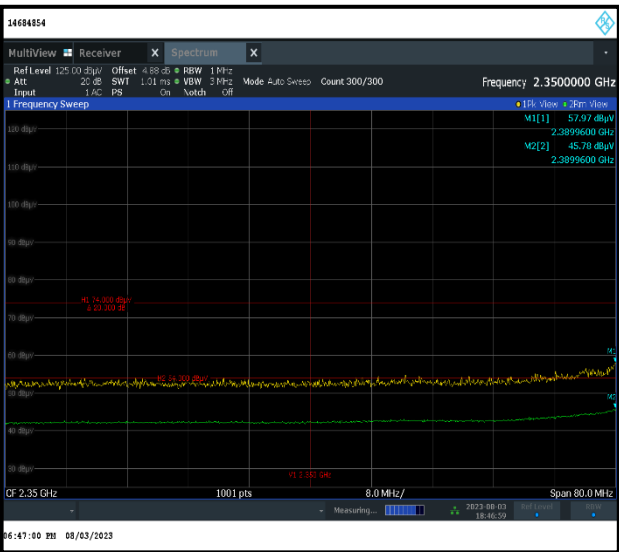
Results: 802.11g / 24Mbps / PWR 13



Lower Band Edge Peak Measurement



Upper Band Edge Measurement



Restricted Band Edge Measurement

Transmitter Band Edge Radiated Emissions (continued)**Results: 802.11n HT20 / MCS06 / PWR 13****Results: Lower Band Edge / Peak**

Frequency (MHz)	Peak Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Result
2398.50	50.72	72.01	21.29	Complied
2400.00	50.13	72.01	21.88	Complied

Results: Lower Band Edge / 2310 to 2390 MHz Restricted Band / Peak

Frequency (MHz)	Peak Level (dB μ V/m)	Peak Limit (dB μ V/m)	Margin (dB)	Result
2389.96	60.30	74.00	13.70	Complied

Results: Lower Band Edge / 2310 to 2390 MHz Restricted Band / Average

Frequency (MHz)	Average Level (dB μ V/m)	Average Limit (dB μ V/m)	Margin (dB)	Result
2389.64	46.88	54.00	8.12	Complied

Results: Upper Band Edge / Peak

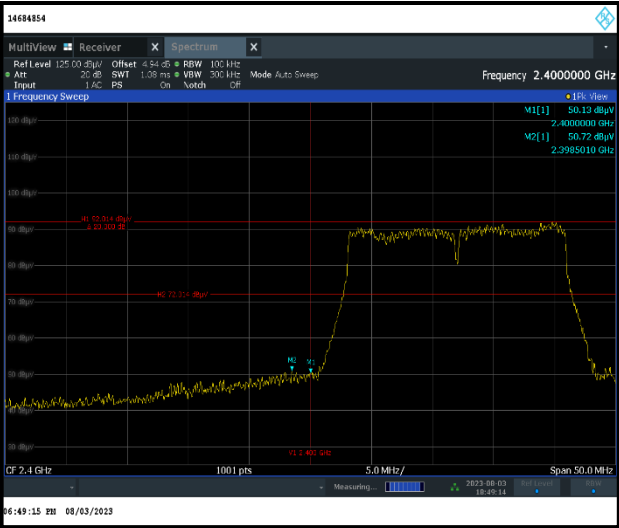
Frequency (MHz)	Peak Level (dB μ V/m)	Peak Limit (dB μ V/m)	Margin (dB)	Result
2483.50	59.80	74.00	41.20	Complied
2485.41	62.58	74.00	11.42	Complied

Results: Upper Band Edge / Average

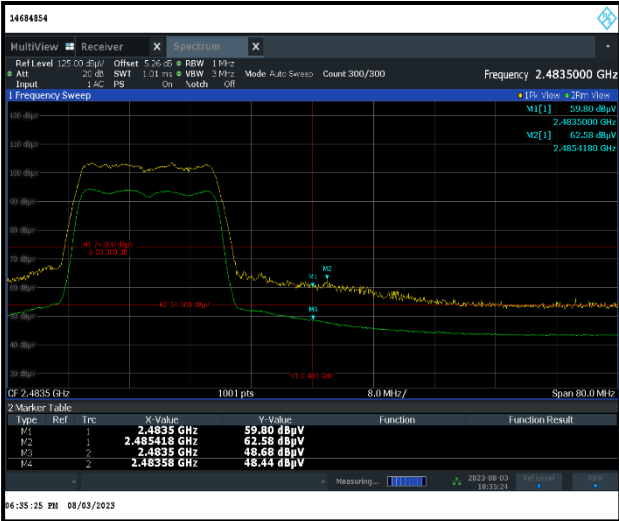
Frequency (MHz)	Average Level (dB μ V/m)	Average Limit (dB μ V/m)	Margin (dB)	Result
2483.50	48.68	54.00	5.32	Complied
2483.58	48.44	54.00	5.54	Complied

Transmitter Band Edge Radiated Emissions (continued)

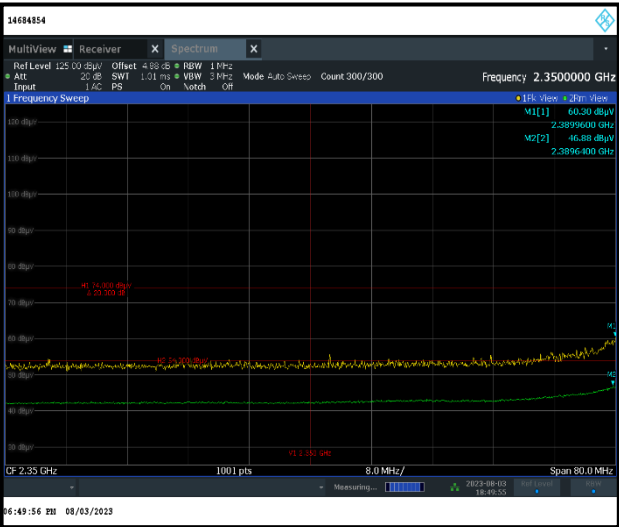
Results: 802.11n HT20 / MCS06 / PWR 13



Lower Band Edge Peak Measurement



Upper Band Edge Measurement



Restricted Band Edge Measurement

Transmitter Band Edge Radiated Emissions (continued)**Results: 802.11n HT40 / MCS03 / PWR 13****Results: Lower Band Edge / Peak**

Frequency (MHz)	Peak Level (dBμV/m)	-20 dBc Limit (dBμV/m)	Margin (dB)	Result
2398.50	55.49	68.61	18.51	Complied
2400.00	54.61	68.61	19.39	Complied

Results: Lower Band Edge / 2310 to 2390 MHz Restricted Band / Peak

Frequency (MHz)	Peak Level (dBμV/m)	Peak Limit (dBμV/m)	Margin (dB)	Result
2389.80	71.29	74.00	2.71	Complied

Results: Lower Band Edge / 2310 to 2390 MHz Restricted Band / Average

Frequency (MHz)	Average Level (dBμV/m)	Average Limit (dBμV/m)	Margin (dB)	Result
2389.40	52.99	54.00	1.01	Complied

Results: Upper Band Edge / Peak

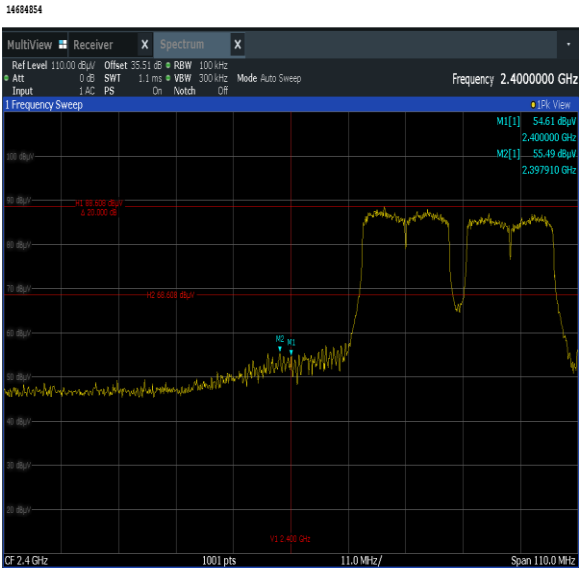
Frequency (MHz)	Peak Level (dBμV/m)	Peak Limit (dBμV/m)	Margin (dB)	Result
2483.50	71.06	74.00	2.94	Complied
2483.90	71.40	74.00	2.60	Complied

Results: Upper Band Edge / Average

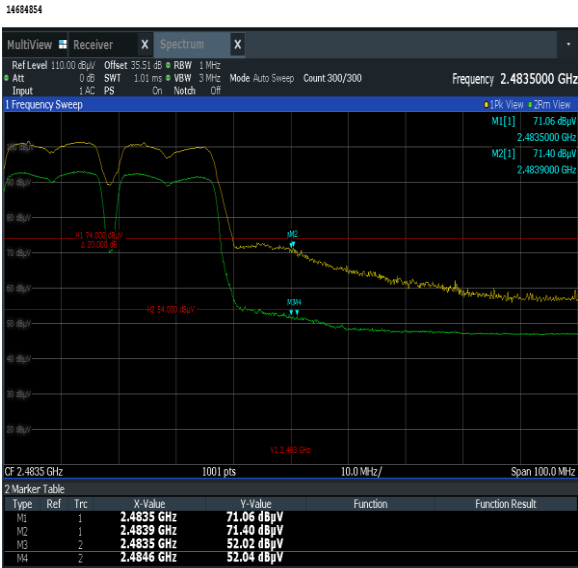
Frequency (MHz)	Average Level (dBμV/m)	Average Limit (dBμV/m)	Margin (dB)	Result
2483.50	52.02	54.00	1.98	Complied
2484.60	52.04	54.00	1.96	Complied

Transmitter Band Edge Radiated Emissions (continued)

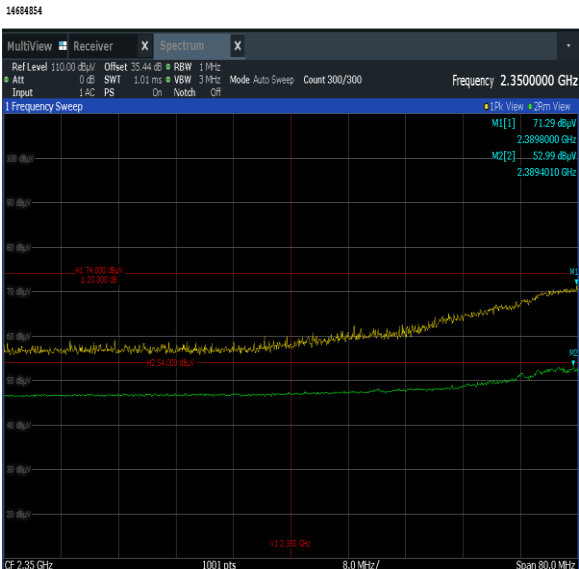
Results: 802.11n HT40 / MCS03 / PWR 13



Lower Band Edge Peak Measurement



Upper Band Edge Measurement



Restricted Band Edge Measurement

Transmitter Band Edge Radiated Emissions (continued)**Internal antenna****Results: 802.11b / 1Mbps / PWR 13****Results: Lower Band Edge / Peak**

Frequency (MHz)	Peak Level (dBμV/m)	-20 dBc Limit (dBμV/m)	Margin (dB)	Result
2399.00	61.79	78.68	16.89	Complied
2400.00	61.26	78.68	17.42	Complied

Results: Lower Band Edge / 2310 to 2390 MHz Restricted Band / Peak

Frequency (MHz)	Peak Level (dBμV/m)	Peak Limit (dBμV/m)	Margin (dB)	Result
2387.48	53.24	74.00	20.76	Complied

Results: Lower Band Edge / 2310 to 2390 MHz Restricted Band / Average

Frequency (MHz)	Average Level (dBμV/m)	Average Limit (dBμV/m)	Margin (dB)	Result
2387.24	45.21	54.00	8.79	Complied

Results: Upper Band Edge / Peak

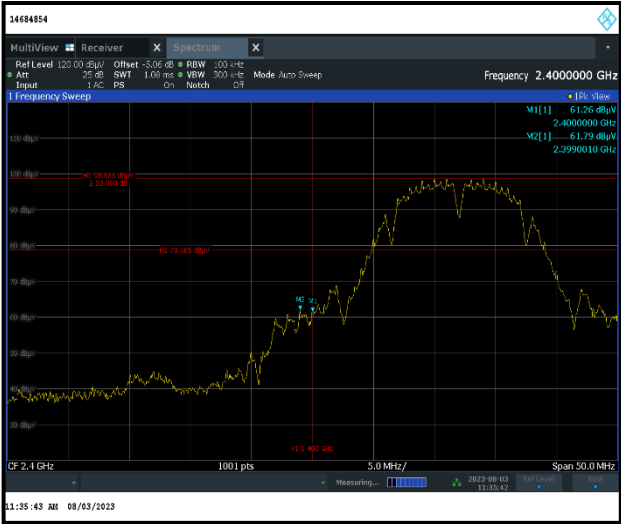
Frequency (MHz)	Peak Level (dBμV/m)	Peak Limit (dBμV/m)	Margin (dB)	Result
2483.50	50.44	74.00	23.56	Complied
2486.29	51.88	74.00	22.12	Complied

Results: Upper Band Edge / Average

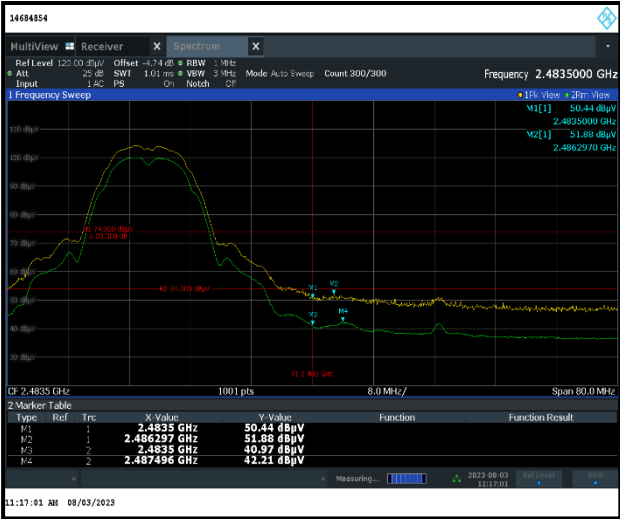
Frequency (MHz)	Average Level (dBμV/m)	Average Limit (dBμV/m)	Margin (dB)	Result
2483.50	40.97	54.00	13.03	Complied
2487.49	42.21	54.00	11.79	Complied

Transmitter Band Edge Radiated Emissions (Continued)

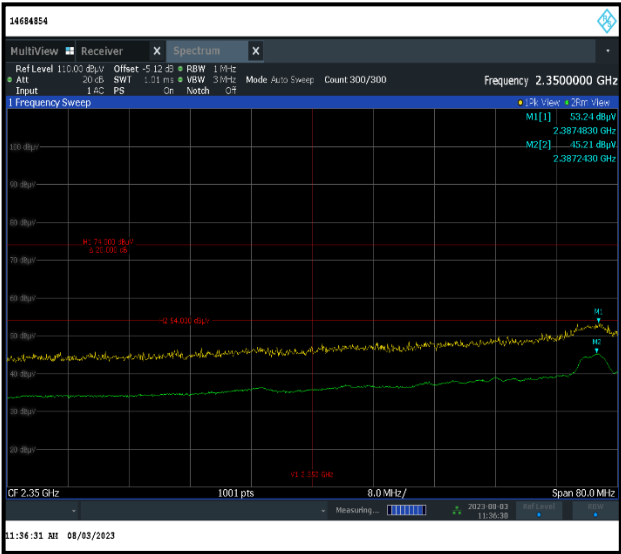
Results: 802.11b / 1Mbps / PWR 13



Lower Band Edge Peak Measurement



Upper Band Edge Measurement



Restricted Band Edge Measurement

Transmitter Band Edge Radiated Emissions (continued)**Results: 802.11g / 24Mbps / PWR 13****Results: Lower Band Edge / Peak**

Frequency (MHz)	Peak Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Result
2399.20	60.94	77.27	16.33	Complied
2400.00	62.41	77.27	14.86	Complied

Results: Lower Band Edge / 2310 to 2390 MHz Restricted Band / Peak

Frequency (MHz)	Peak Level (dB μ V/m)	Peak Limit (dB μ V/m)	Margin (dB)	Result
2389.96	65.77	74.00	9.23	Complied

Results: Lower Band Edge / 2310 to 2390 MHz Restricted Band / Average

Frequency (MHz)	Average Level (dB μ V/m)	Average Limit (dB μ V/m)	Margin (dB)	Result
2389.88	50.17	54.00	3.83	Complied

Results: Upper Band Edge / Peak

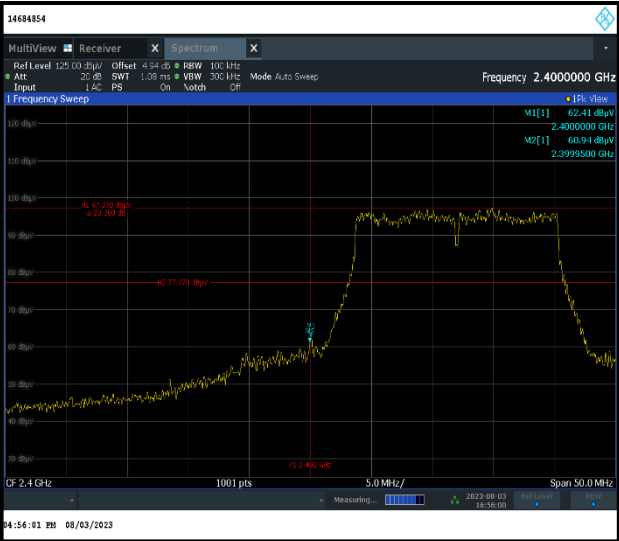
Frequency (MHz)	Peak Level (dB μ V/m)	Peak Limit (dB μ V/m)	Margin (dB)	Result
2483.50	62.42	74.00	11.58	Complied
2483.58	62.11	74.00	11.89	Complied

Results: Upper Band Edge / Average

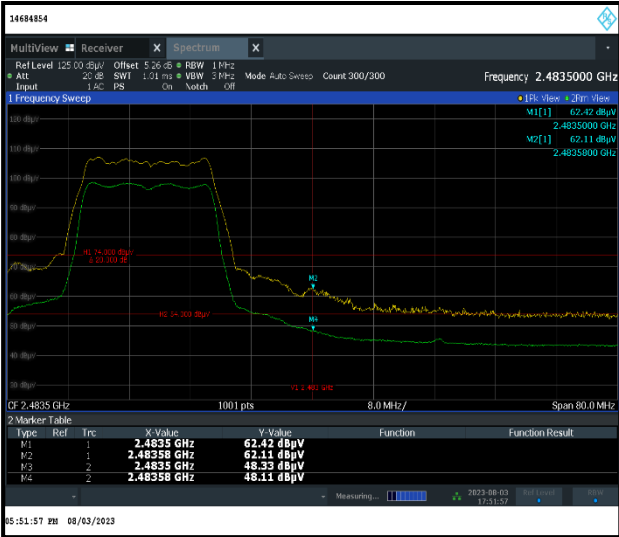
Frequency (MHz)	Average Level (dB μ V/m)	Average Limit (dB μ V/m)	Margin (dB)	Result
2483.50	48.33	54.00	7.67	Complied
2483.58	48.11	54.00	7.89	Complied

Transmitter Band Edge Radiated Emissions (continued)

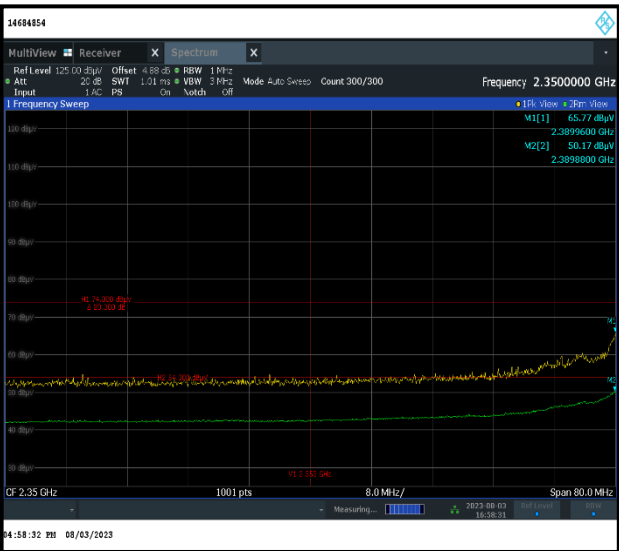
Results: 802.11g / 24Mbps / PWR 13



Lower Band Edge Peak Measurement



Upper Band Edge Measurement



Restricted Band Edge Measurement

Transmitter Band Edge Radiated Emissions (continued)**Results: 802.11n HT20 / MCS06 / PWR 13****Results: Lower Band Edge / Peak**

Frequency (MHz)	Peak Level (dB μ V/m)	-20 dBc Limit (dB μ V/m)	Margin (dB)	Result
2399.50	60.17	78.42	18.25	Complied
2400.00	58.01	78.42	20.41	Complied

Results: Lower Band Edge / 2310 to 2390 MHz Restricted Band / Peak

Frequency (MHz)	Peak Level (dB μ V/m)	Peak Limit (dB μ V/m)	Margin (dB)	Result
2389.96	70.07	74.00	3.93	Complied

Results: Lower Band Edge / 2310 to 2390 MHz Restricted Band / Average

Frequency (MHz)	Average Level (dB μ V/m)	Average Limit (dB μ V/m)	Margin (dB)	Result
2389.88	52.63	54.00	1.37	Complied

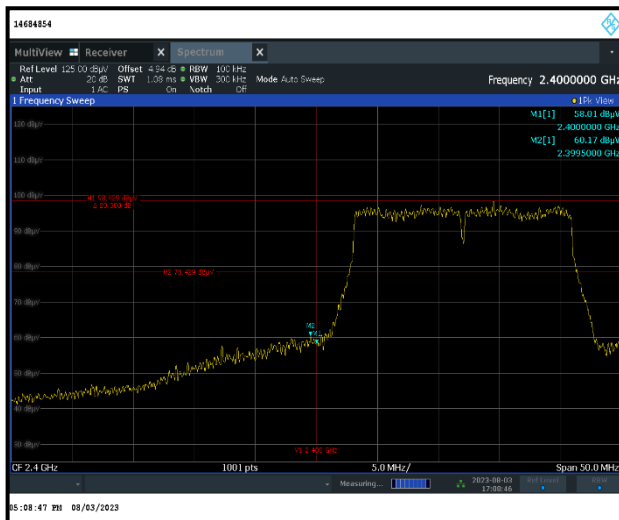
Results: Upper Band Edge / Peak

Frequency (MHz)	Peak Level (dB μ V/m)	Peak Limit (dB μ V/m)	Margin (dB)	Result
2483.50	63.24	74.00	10.76	Complied
2483.58	63.04	74.00	10.96	Complied

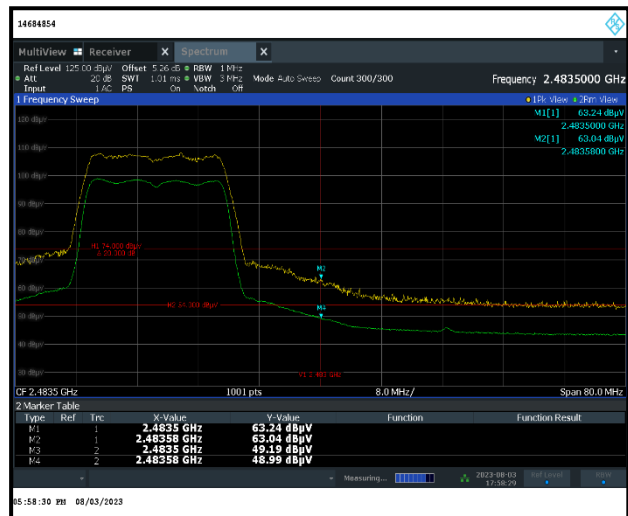
Results: Upper Band Edge / Average

Frequency (MHz)	Average Level (dB μ V/m)	Average Limit (dB μ V/m)	Margin (dB)	Result
2483.50	49.19	54.00	4.81	Complied
2483.58	48.99	54.00	5.01	Complied

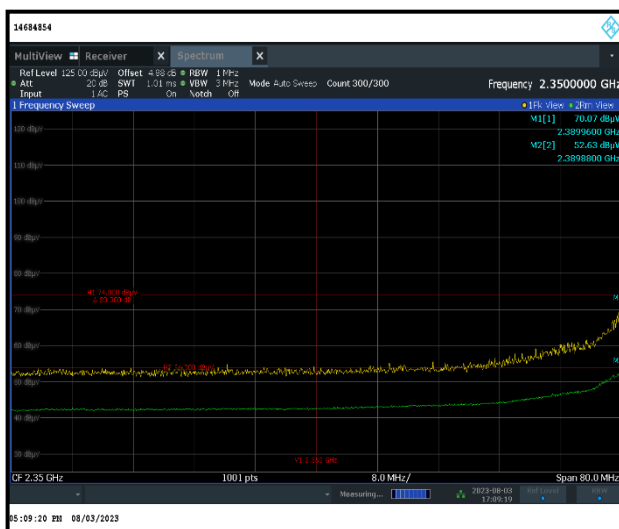
Transmitter Band Edge Radiated Emissions (continued)



Lower Band Edge Peak Measurement



Upper Band Edge Measurement



Restricted Band Edge Measurement

Transmitter Band Edge Radiated Emissions (continued)**Results: 802.11n HT40 / MCS03 / PWR 13****Results: Lower Band Edge / Peak**

Frequency (MHz)	Peak Level (dBμV/m)	-20 dBc Limit (dBμV/m)	Margin (dB)	Result
2400.00	58.42	72.45	14.03	Complied
2397.20	58.97	72.45	13.48	Complied

Results: Lower Band Edge / 2310 to 2390 MHz Restricted Band / Peak

Frequency (MHz)	Peak Level (dBμV/m)	Peak Limit (dBμV/m)	Margin (dB)	Result
2389.48	65.45	74.00	8.55	Complied

Results: Lower Band Edge / 2310 to 2390 MHz Restricted Band / Average

Frequency (MHz)	Average Level (dBμV/m)	Average Limit (dBμV/m)	Margin (dB)	Result
2389.08	48.95	54.00	5.05	Complied

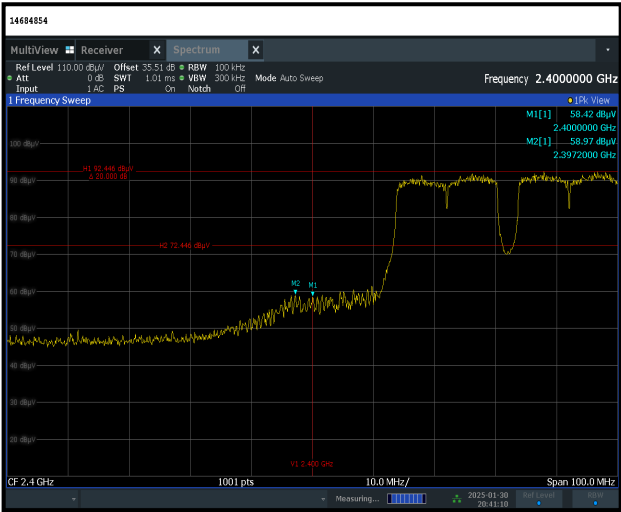
Results: Upper Band Edge / Peak

Frequency (MHz)	Peak Level (dBμV/m)	Peak Limit (dBμV/m)	Margin (dB)	Result
2483.50	69.79	74.00	4.21	Complied
2483.70	70.62	74.00	3.38	Complied

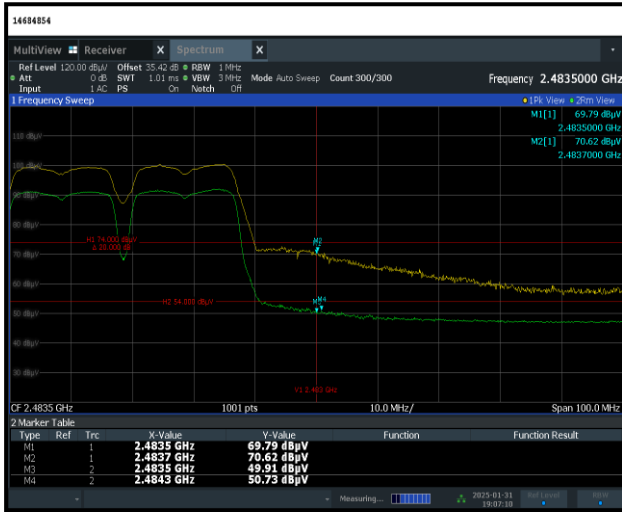
Results: Upper Band Edge / Average

Frequency (MHz)	Average Level (dBμV/m)	Average Limit (dBμV/m)	Margin (dB)	Result
2483.50	49.91	54.00	4.09	Complied
2484.30	50.73	54.00	3.27	Complied

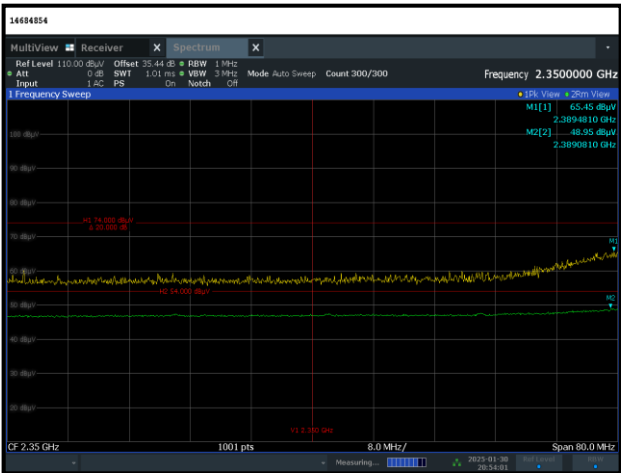
Transmitter Band Edge Radiated Emissions (continued)



Lower Band Edge Peak Measurement



Upper Band Edge Measurement



Restricted Band Edge Measurement

4.8.1 AC Power Line Conducted Emissions Test Results

4.9 Transmitter AC Conducted Spurious Emissions

Test Summary:

Test Engineer:	Abbas Al-Hussainy	Test Date:	22 & 23 August 2023
Test Sample Serial Number:	111909+111934 (Radiated Test Sample)		

FCC Reference:	Part 15.207
ISED Canada Reference:	RSS-Gen 8.8
Test Method Used:	ANSI C63.10 Section 6.2 / FCC KDB 174176 and notes below

Environmental Conditions:

Temperature (°C):	22 to 24
Relative Humidity (%):	54 to 60

Note(s):

1. Measurement was only performed with the Internal PCB Antenna as it was found out to be the worst-case w.r.t output power.
2. In accordance with FCC KDB 174176 Q4, tests were performed with 120 VAC 60 & 240 VAC 60 Hz single phase.
3. The EUT was configured with the following worst-case mode:
802.11b | 1 Mbps | PWR 13 | Channel Top | PRBS9 | Internal antenna
4. Pre-scans were performed and markers placed on the highest live and neutral measured levels. Final measurements were performed on the marker frequencies and the results entered into the tables below.
5. Measurement performed with both antennas but only the measurement with Internal antenna is reported as it is the worst case.
6. Preliminary measurements were performed at both 50 Hz and 60 Hz supply frequencies. There was no change to the observed emissions.

Transmitter AC Conducted Spurious Emissions (continued)**Results: Internal PCB Antenna****Results: Live / Quasi Peak / 120 VAC 60 Hz**

Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.19852	Live	39.60	63.70	24.10	Complied
0.27973	Live	40.90	60.80	19.90	Complied
0.41482	Live	42.50	57.60	15.10	Complied
0.46489	Live	36.50	56.60	20.10	Complied
0.60744	Live	31.10	56.00	24.90	Complied
0.70139	Live	40.60	56.00	15.40	Complied
0.75129	Live	41.90	56.00	14.10	Complied
1.07423	Live	43.80	56.00	12.20	Complied
1.48539	Live	40.80	56.00	15.20	Complied
1.66093	Live	37.20	56.00	18.80	Complied
2.6623	Live	39.90	56.00	16.10	Complied
8.46597	Live	44.50	60.00	15.50	Complied
12.49965	Live	44.20	60.00	15.80	Complied

Results: Live / Average / 120 VAC 60 Hz

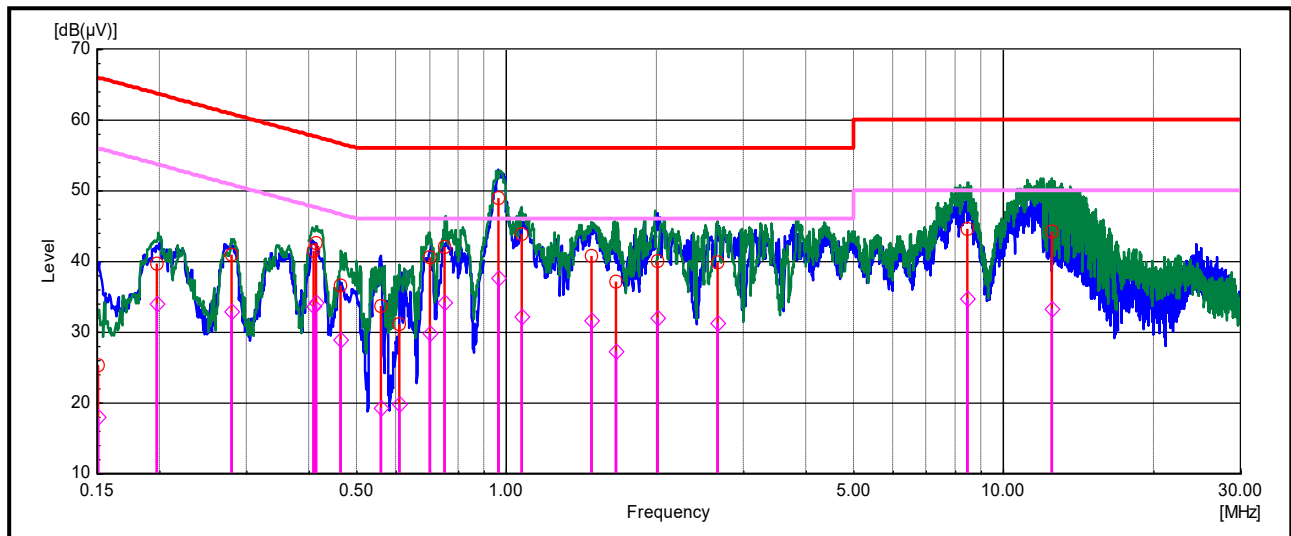
Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.19852	Live	33.90	53.70	19.80	Complied
0.27973	Live	32.90	50.80	17.90	Complied
0.41482	Live	34.20	47.60	13.40	Complied
0.46489	Live	28.90	46.60	17.70	Complied
0.60744	Live	19.80	46.00	26.20	Complied
0.70139	Live	29.90	46.00	16.10	Complied
0.75129	Live	34.20	46.00	11.80	Complied
1.07423	Live	32.20	46.00	13.80	Complied
1.48539	Live	31.70	46.00	14.30	Complied
1.66093	Live	27.20	46.00	18.80	Complied
2.6623	Live	31.30	46.00	14.70	Complied
8.46597	Live	34.60	50.00	15.40	Complied
12.49965	Live	33.20	50.00	16.80	Complied

Transmitter AC Conducted Spurious Emissions (continued)**Results: Neutral / Quasi Peak / 120 VAC 60 Hz**

Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.15044	Neutral	25.20	66.00	40.80	Complied
0.4088	Neutral	41.50	57.70	16.20	Complied
0.55901	Neutral	33.60	56.00	22.40	Complied
0.96301	Neutral	48.80	56.00	7.20	Complied
2.01685	Neutral	39.90	56.00	16.10	Complied

Results: Neutral / Average / 120 VAC 60 Hz

Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.15044	Neutral	18.00	56.00	38.00	Complied
0.4088	Neutral	33.60	47.70	14.10	Complied
0.55901	Neutral	19.30	46.00	26.70	Complied
0.96301	Neutral	37.70	46.00	8.30	Complied
2.01685	Neutral	32.00	46.00	14.00	Complied

Transmitter AC Conducted Spurious Emissions (continued)**Results: 120 VAC 60 Hz**

Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

Transmitter AC Conducted Spurious Emissions (continued)**Results: Live / Quasi Peak / 240 VAC 60 Hz**

Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.18751	Live	39.30	64.10	24.80	Complied
0.23458	Live	41.80	62.30	20.50	Complied
0.28325	Live	41.20	60.70	19.50	Complied
0.32889	Live	41.80	59.50	17.70	Complied
0.37749	Live	45.00	58.30	13.30	Complied
0.47150	Live	42.40	56.50	14.10	Complied
0.51988	Live	43.40	56.00	12.60	Complied
0.59601	Live	46.80	56.00	9.20	Complied
0.66099	Live	44.00	56.00	12.00	Complied
0.70681	Live	41.40	56.00	14.60	Complied
0.84116	Live	45.00	56.00	11.00	Complied
1.03571	Live	46.70	56.00	9.30	Complied
1.61201	Live	45.60	56.00	10.40	Complied
2.69653	Live	43.90	56.00	12.10	Complied
3.77421	Live	42.60	56.00	13.40	Complied
4.87069	Live	42.00	56.00	14.00	Complied
6.11112	Live	41.60	60.00	18.40	Complied
7.04812	Live	44.50	60.00	15.50	Complied
8.02886	Live	44.90	60.00	15.10	Complied
11.10951	Live	46.20	60.00	13.80	Complied
13.12610	Live	44.70	60.00	15.30	Complied
14.22691	Live	39.60	60.00	20.40	Complied
17.11284	Live	36.70	60.00	23.30	Complied
22.55421	Live	36.20	60.00	23.80	Complied

Transmitter AC Conducted Spurious Emissions (continued)**Results: Live / Average / 240 VAC 60 Hz**

Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.18751	Live	31.60	54.10	22.50	Complied
0.23458	Live	32.70	52.30	19.60	Complied
0.28325	Live	29.90	50.70	20.80	Complied
0.32889	Live	31.90	49.50	17.60	Complied
0.37749	Live	33.70	48.30	14.60	Complied
0.47150	Live	31.10	46.50	15.40	Complied
0.51988	Live	30.20	46.00	15.80	Complied
0.59601	Live	36.60	46.00	9.40	Complied
0.66099	Live	30.50	46.00	15.50	Complied
0.70681	Live	28.10	46.00	17.90	Complied
0.84116	Live	33.10	46.00	12.90	Complied
1.03571	Live	37.50	46.00	8.50	Complied
1.61201	Live	34.30	46.00	11.70	Complied
2.69653	Live	34.50	46.00	11.50	Complied
3.77421	Live	34.70	46.00	11.30	Complied
4.87069	Live	34.70	46.00	11.30	Complied
6.11112	Live	34.00	50.00	16.00	Complied
7.04812	Live	37.60	50.00	12.40	Complied
8.02886	Live	37.40	50.00	12.60	Complied
11.10951	Live	37.00	50.00	13.00	Complied
13.12610	Live	35.50	50.00	14.50	Complied
14.22691	Live	30.50	50.00	19.50	Complied
17.11284	Live	23.20	50.00	26.80	Complied
22.55421	Live	25.70	50.00	24.30	Complied

Transmitter AC Conducted Spurious Emissions (continued)**Results: Neutral / Quasi Peak / 240 VAC 60 Hz**

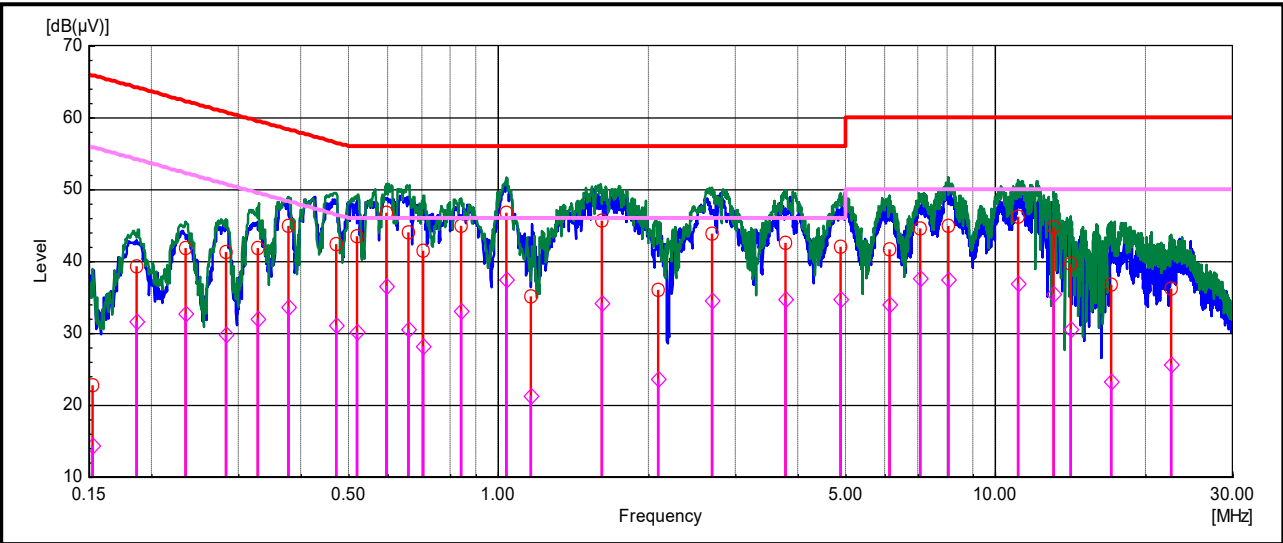
Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.15229	Neutral	22.70	65.90	43.20	Complied
1.16597	Neutral	35.20	56.00	20.80	Complied
2.10002	Neutral	35.90	56.00	20.10	Complied
2.23826	Neutral	40.50	56.00	15.50	Complied
2.76980	Neutral	43.10	56.00	12.90	Complied
3.82892	Neutral	44.10	56.00	11.90	Complied

Results: Neutral / Average / 240 VAC 60 Hz

Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.15229	Neutral	14.30	55.90	41.60	Complied
1.16597	Neutral	21.30	46.00	24.70	Complied
2.10002	Neutral	23.60	46.00	22.40	Complied
2.23826	Neutral	28.00	46.00	18.00	Complied
2.76980	Neutral	37.30	46.00	8.70	Complied
3.82892	Neutral	37.70	46.00	8.30	Complied

Transmitter AC Conducted Spurious Emissions (continued)

Results: 240 VAC 60 Hz



Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

--- END OF REPORT ---