

FCC Testing of the

Resideo USA LLC.
ADT8AIO

FCC ID: CFS8DL8AIO

In accordance with:
FCC 47 CFR part 15.247

Prepared for: Resideo USA LLC.
1985 Douglas Dr. N
Golden Valley, Minnesota 55427 USA



COMMERCIAL-IN-CONFIDENCE

Document Number: NC721020783.2 | Issue: 1

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Authorized Signatory	Bhagyashree Chaudhary	2026 -September-09	
Testing	Thierry Jean-Charles	2026-September-09	

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD America, Inc. document control rules.

FCC Accreditation Designation Number US1148 New Brighton, MN Test Laboratory	Innovation, Science, and Economic Development Canada Accreditation Site Number 4512A New Brighton, MN Test Laboratory
--	---

EXECUTIVE SUMMARY

Samples of this product were tested and found to be compliant with the standards listed above and the tests shown in Table 1.4-1 of this report.

 A2LA Cert. No. 2955.11	DISCLAIMER AND COPYRIGHT This non-binding report has been prepared by TÜV SÜD America with all reasonable skill and care. The document is confidential to the potential Client and TÜV SÜD America. No part of this document may be reproduced without the prior written approval of TÜV SÜD America. © TÜV SÜD.
	DISCLAIMER AND COPYRIGHT Our A2LA Accreditation does not cover opinions and interpretations and any expressed are outside the scope of our A2LA Accreditation. Results of tests not covered by our A2LA Accreditation Schedule are marked NUA (Not A2LA Accredited).

TÜV SÜD America Inc
141 14th Street NW
New Brighton, MN 55112

Phone: 651-631-2487
www.tuv-sud-america.com

TÜV SÜD

TÜV®



Contents

1	Report Summary	3
1.1	Report Modification Record	3
1.2	Introduction	3
1.3	Scope of Testing	5
1.4	Summary of Results	5
1.5	Product Information	6
1.6	Deviations from the Standard	8
1.7	EUT Modification Record	8
1.8	Test Location	8
2	Test Details	9
2.1	Antenna Requirements	9
2.2	6 dB Bandwidth	11
2.3	99% Bandwidth	16
2.4	Maximum Output Power	21
2.5	Band-Edge Compliance of RF Conducted Emissions	26
2.6	RF Conducted Spurious Emissions	31
2.7	Radiated Spurious Emissions into Restricted Frequency Bands	39
2.8	Power Spectral Density	109
2.9	Duty Cycle	114
2.10	Power Line Conducted Emissions	119
3	Diagram of Test Set-ups	129
4	Measurement Uncertainty	134
5	Accreditation, Disclaimers and Copyright.....	135



1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
1	First Issue	2026-September-09

1.2 Introduction

The purpose of this report is to demonstrate compliance with Part 15 Subpart C of the FCC's Code of Federal Regulations Section 15.247 for the tests documented herein.



Applicant	Resideo USA LLC.
Manufacturer	Resideo USA LLC
Applicant's Email Address	Christian.Fouth@resideo.com
Model Number(s)	ADT8AIO
Serial Number(s)	ADT_DVT #69 (Radiated and Power Line Emissions Sample) ADT-GW-FCC-#02 (RF Conducted Sample)
FCC ID	CFS8DL8AIO
Hardware Version(s)	REV.C
Software Version(s)	01.34.0
Number of Samples Tested	2
Test Specification/Issue/Date	US Code of Federal Regulations (CFR): Title 47, Part 15, Subpart C: Radio Frequency Devices, Intentional Radiators, 2025
Order Number	721020783
Date of Receipt of EUT	2026-April-01
Start of Test	2026-May-18
Finish of Test	2026-July-18
Name of Engineer(s)	Thierry Jean-Charles Duranta K. Barua Rafael Aguiar Cota
Related Document(s)	ANSI C63.10-2020: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices US Code of Federal Regulations (CFR): Title 47, Part 2, Subpart J: Equipment Authorization Procedures, 2025. FCC OET KDB Publication 558074 D01 15.247 Meas Guidance v05r02: 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, April 2 2019



1.3 Scope of Testing

The purpose of this report is to demonstrate compliance with Part 15 Subpart C of the FCC's Code of Federal Regulations Section 15.247 of the ADT8AIO for the tests documented herein.

1.4 Summary of Results

A summary of the tests carried out in accordance with FCC Part 15.247 is shown below.

Table 1.4-1 – Test Result Summary

Test Parameter	Test Plan (Yes/No)	Test Result	FCC 47 CFR Rule Part	Test Report Page No
Antenna Requirement	Yes	Pass	15.203, 15.204	9
6 dB Bandwidth	Yes	Pass	15.247(a)(2)	11
99% Bandwidth	Yes	Pass	-----	16
Maximum Output Power	Yes	Pass	15.247(b)(3)	21
Band-Edge Compliance of RF Conducted Emissions	Yes	Pass	15.247(d)	26
RF Conducted Spurious Emissions	Yes	Pass	15.247(d)	31
Radiated Spurious Emissions into Restricted Frequency Bands	Yes	Pass	15.205, 15.209	39
Power Spectral Density	Yes	Pass	15.247(e)	109
Duty Cycle	Yes	-----	N/A	114
Power Line Conducted Emissions	Yes	Pass	15.207	119



1.5 Product Information

1.5.1 Technical Description

The Tomcat AIO (All-In-One) ADT8AIO 8" Panel is a security interface touch panel that contains four (4) separate on-board radios: a Bluetooth LE (2.4 GHz), a Wi-Fi(2.4GHz), a Z-Wave/Z-Wave LR(908.42/916/912/920MHz) and a RF6 (Zigbee-based, 2.4 GHz), as well as LTE plugin module (FCC ID: RI7LE910CXNF). The test report documents the evaluation results for the RF6 radio.

Technical Details

Mode of Operation: RF6
 Frequency Range: 2405 MHz - 2475 MHz
 Number of Channels: 15
 Channel Separation: 5 MHz
 Data Rate: 250kbps
 Modulations: OQPSK+DSSS
 Antenna Type/Gain: Printed PCB antenna / 1.63 dBi (antenna 1), 0.7 dBi (antenna 2)
 Input Power: 120V/60Hz

A full description and detailed product specification details are available from the manufacturer.

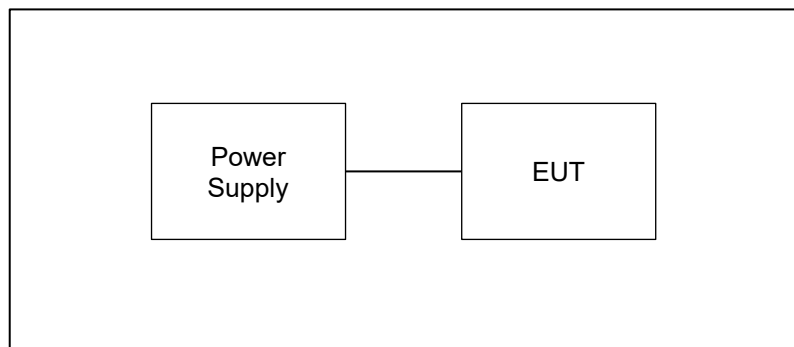


Figure 1.5.1-1 – Test Setup Block Diagram

Table 1.5.1-1 – Cable Descriptions

Cable/Port	Description
Power	2.5 m, EUT to Power Supply

Table 1.5.1-2 – Support Equipment Descriptions

Make/Model	Description
Resideo / ADS-25STA-12C	9V 2.5A Class 2 Power Supply



1.5.2 Modes of Operation

The tested mode of operation was:

The EUT was evaluated for the 2.4 GHz RF6 radio. The EUT was configured through a serial terminal using the output power settings defined by the equipment manufacturer. The EUT RF output power setting for the tested channels was 32. The EUT was configured to generate a continuously modulated signal on each channel evaluated.

Table 1.5.2-1: Frequencies Evaluated

Channel	Channel Number	Frequency (MHz)
Low Channel	11	2405
Middle Channel	18	2440
High Channel	25	2475

1.5.3 Monitoring of Performance

The radiated and power line conducted emissions evaluations were performed on an unmodified sample. The sample was placed on the tabletop in its typical operating orientation. Refer to the test setup photos for more information.

For the RF conducted measurements, the EUT was configured with coaxial connectors at the antenna ports to allow direct coupling to the measurement equipment.

1.5.4 Performance Criteria

The EUT was evaluated for the performance criteria defined below.

Table 1.5.4-1: Performance Criteria

Parameter	Requirement
Antenna Requirement	FCC: Section 15.203, 15.204
6 dB Bandwidth	FCC: Section 15.247(a)(2)
99% Bandwidth	N/A
Maximum Output Power	FCC: Section 15.247(b)(3)
Band-Edge Compliance of RF Conducted Emissions	FCC: Section 15.247(d)
RF Conducted Spurious Emissions	FCC: Section 15.247(d)
Radiated Spurious Emissions into Restricted Frequency Bands	FCC: Sections 15.205, 15.209
Power Spectral Density	FCC: Section 15.247(e)
Duty Cycle	N/A
Power Line Conducted Emissions	FCC Section 15.207



1.6 Deviations from the Standard

The EUT was evaluated without any deviation from the test standards.

1.7 EUT Modification Record

The table below details modifications made to the EUT during the test program. The modifications incorporated during each test are recorded on the appropriate test pages.

Modification State	Description of Modification still fitted to EUT	Modification Fitted By	Date Modification Fitted
0	N/A	N/A	N/A

The equipment was tested as provided without any modifications.

1.8 Test Location

TÜV SÜD Product Service conducted the following tests at our New Brighton, MN Test Laboratory.

Test Name	Name of Engineer(s)	Accreditation
AC Powered, Operating		
Antenna Requirement	Thierry Jean-Charles	A2LA
6 dB Bandwidth	Thierry Jean-Charles	A2LA
99% Bandwidth	Thierry Jean-Charles	A2LA
Maximum Output Power	Thierry Jean-Charles	A2LA
Band-Edge Compliance of RF Conducted Emissions	Thierry Jean-Charles	A2LA
RF Conducted Spurious Emissions	Thierry Jean-Charles	A2LA
Radiated Spurious Emissions into Restricted Frequency Bands	Thierry Jean-Charles Rafael Aguiar Cota Duranta K. Barua	A2LA
Power Spectral Density	Thierry Jean-Charles	A2LA
Duty Cycle	Thierry Jean-Charles	A2LA

Office Address:

TÜV SÜD America, Inc.
141 14th Street NW
New Brighton, MN 55112
USA



2 Test Details

2.1 Antenna Requirements

2.1.1 Specification Reference

FCC: Section 15.203, 15.204

2.1.2 Equipment Under Test and Modification State

S/N: ADT_DVT #69, refer to Section 1.7.

2.1.3 Date of Test

5/18/2026

2.1.4 Test Method

N/A

2.1.5 Environmental Conditions

Ambient Temperature	N/A
Relative Humidity	N/A
Atmospheric Pressure	N/A

2.1.6 Test Results

Limit Clause FCC Sections: 15.203, 15.204

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ [15.211](#), [15.213](#), [15.217](#), [15.219](#), [15.221](#), or [§ 15.236](#). Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with [§ 15.31\(d\)](#), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Table 2.1.6-1 – Antenna Used In EUT

Antenna Number	Type	Connection Type	Antenna Gain (dBi)
1	PCB Trace Antenna	Integrated PCB Trace	1.63
2	PCB Trace Antenna	Integrated PCB Trace	0.7



Test Summary:

The EUT uses two PCB trace antennas which are integral to the main board. The antennas are not removable and therefore meet the requirements of FCC section 15.203.

Test Result: Pass

2.1.7 Test Location and Test Equipment Used

This test was carried out in TÜV SÜD America, Inc., 141 14th Street NW, New Brighton, MN 55112, USA.

As this is a visual inspection, no test equipment was used.



2.2 6 dB Bandwidth

2.2.1 Specification Reference

FCC: Section 15.247(a)(2)

2.2.2 Equipment Under Test and Modification State

S/N: ADT-GW-FCC-#02

2.2.3 Date of Test

7/16/2026 to 7/17/2026

2.2.4 Test Method

The 6dB bandwidth was measured in accordance with ANSI C63.10 Subclause 11.8.1 Option 1. The RBW of the spectrum analyzer was set to 100 kHz and VBW 300 kHz. Span was set large enough to capture the emissions and >> RBW. A peak detector was used for the measurements. The amplitude offset of the spectrum analyzer was adjusted to account for cable and attenuator insertion losses.

2.2.5 Environmental Conditions

Ambient Temperature	22 to 23°C
Relative Humidity	40 to 41 %
Atmospheric Pressure	983 to 985 mBar

2.2.6 Test Results

AC Powered, Operating

Limit Clause FCC Part 15.247(a)(2)

The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Summary:

The minimum 6-dB Bandwidth was measured to be 1564.2 kHz which is greater than the minimum bandwidth of 500 kHz.

Test Result: Pass



Table 2.2.6-1 – 6 dB Bandwidth -Test Results

Configuration	Frequency (MHz)	6 dB Bandwidth (kHz)	Minimum Requirement (kHz)	Result
Antenna 1	2405	1567.78	500.00	Pass
Antenna 1	2440	1586.89	500.00	Pass
Antenna 1	2475	1575.46	500.00	Pass
Antenna 2	2405	1564.20	500.00	Pass
Antenna 2	2440	1580.59	500.00	Pass
Antenna 2	2475	1573.65	500.00	Pass

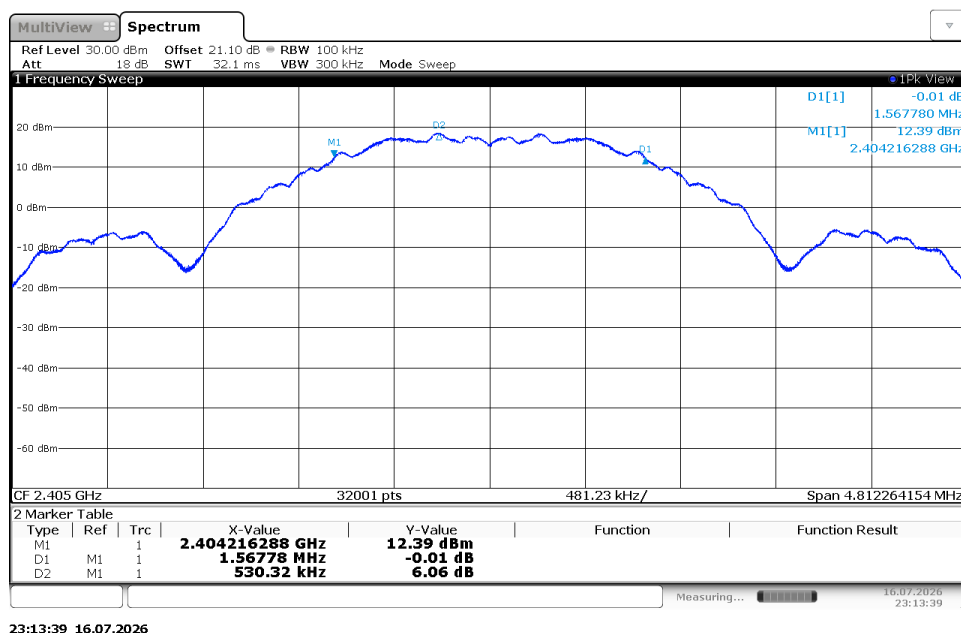
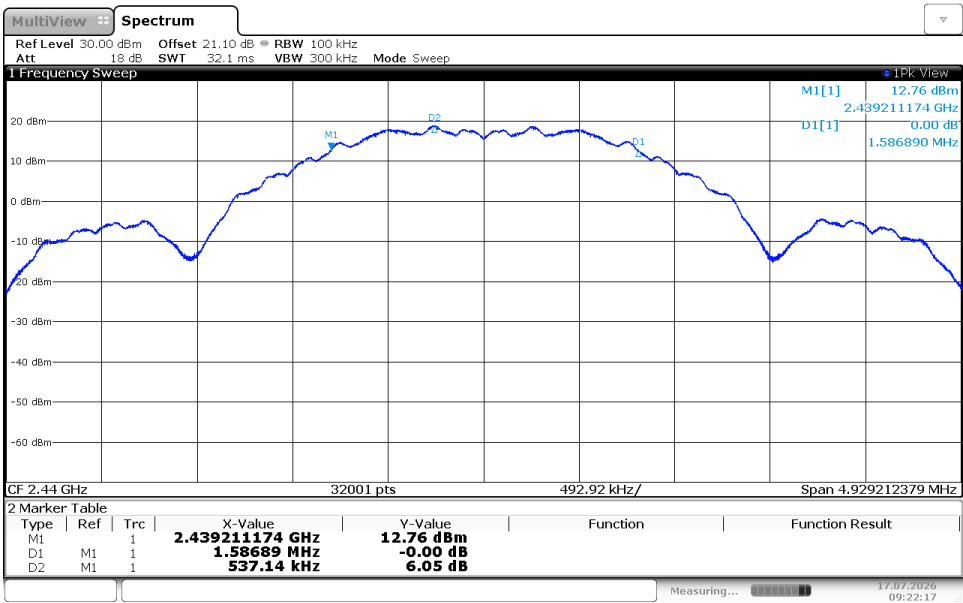
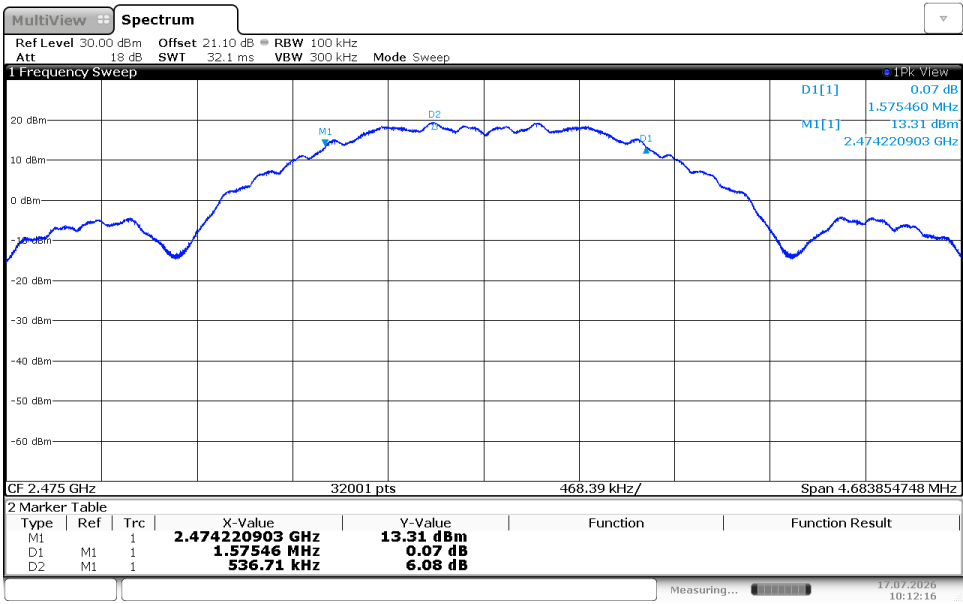


Figure 2.2.6-1 – 6 dB Bandwidth - Antenna 1 - 2405 MHz



09:22:17 17.07.2026

Figure 2.2.6-2 – Antenna 1 - 2440 MHz



10:12:17 17.07.2026

Figure 2.2.6-3 – 6 dB Bandwidth - Antenna 1 - 2475 MHz

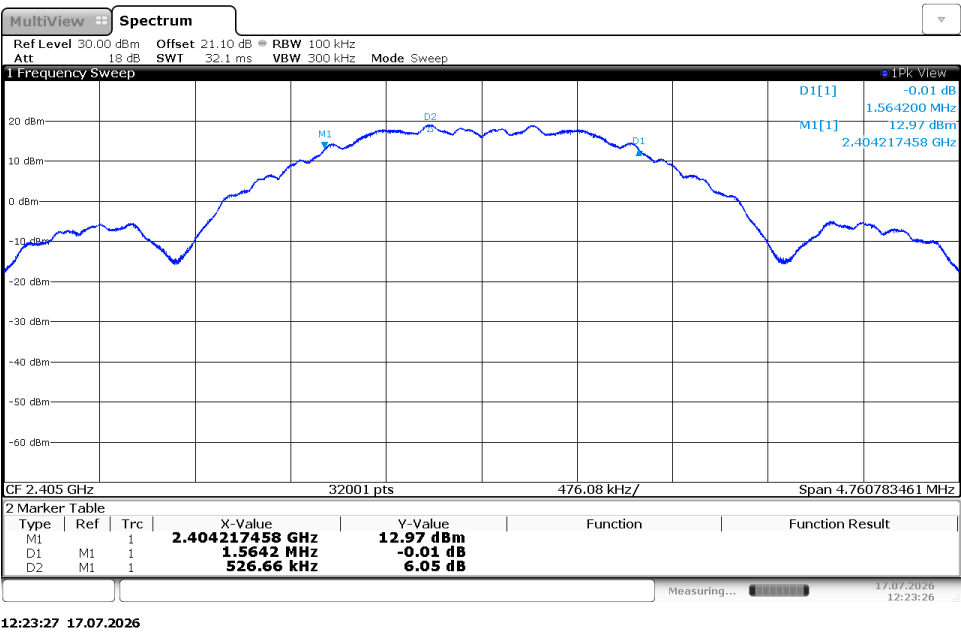


Figure 2.2.6-4 – 6 dB Bandwidth - Antenna 2 - 2405 MHz

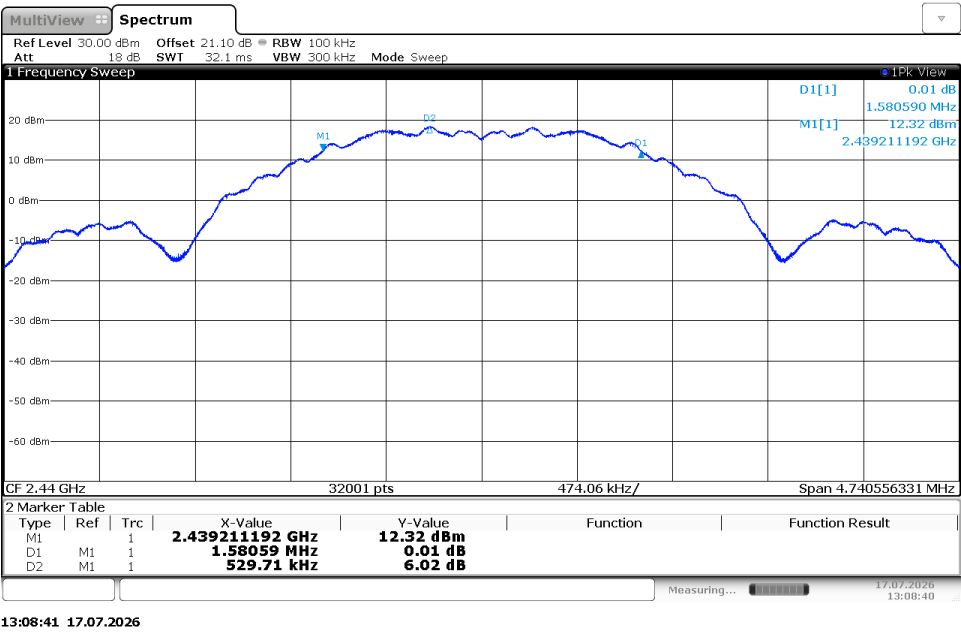


Figure 2.2.6-5 – 6 dB Bandwidth - Antenna 2 - 2440 MHz

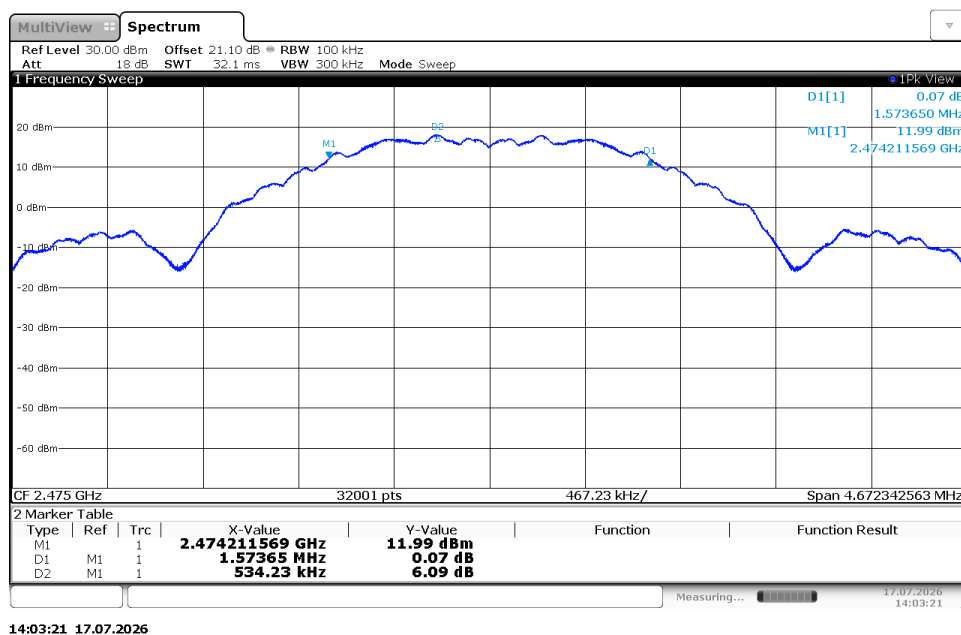


Figure 2.2.6-6 – Antenna 2 - 2475 MHz

2.2.7 Test Location and Test Equipment Used

This test was carried out in TÜV SÜD America, Inc., 141 14th Street NW, New Brighton, MN 55112, USA.

Device #	Manufacturer	Description	Model	Serial #	Cal Code	Cal Date	Cal Due
DEMC3049	Aeroflex Inmet	Atten 20dB 2.9mm-M/F, DC-26.5GH, 2W	26AH-20	1443	B	05/27/2025 06/12/2026	05/27/2026 06/12/2027
DEMC3085	Rohde & Schwarz	Signal & Spectrum Analyzer	FSW43	103997	G	08/29/2025	08/29/2026
BEMC02112	Teledyne Storm Products	Duratest 175 Cable 26.5GHz	921-0101-036	12-06-698	B	01/12/2026	01/12/2027

Cal Code G = Calibration performed by an accredited outside source.

Cal Code B = Calibration verification performed internally.

Cal Code Y = Passive Device, or Calibration not required when used with other calibrated equipment.

The test equipment was used only during the active cycle of the calibration period.



2.3 99% Bandwidth

2.3.1 Specification Reference

N/A

2.3.2 Equipment Under Test and Modification State

S/N: ADT-GW-FCC-#02

2.3.3 Date of Test

7/16/2026 to 7/17/2026

2.3.4 Test Method

The 99% occupied bandwidth was measured with the spectrum analyzer span set to fully display the emission. The RBW was set to 1% to 5% of the approximated bandwidth. The occupied 99% bandwidth was measured by using 99% bandwidth equipment function of the spectrum analyzer using a peak detector. The amplitude offset of the spectrum analyzer was adjusted to account for cable and attenuator insertion losses.

2.3.5 Environmental Conditions

Ambient Temperature	22 to 23°C
Relative Humidity	40 to 41 %
Atmospheric Pressure	983 to 985 mBar

2.3.6 Test Results

AC Powered, Operating

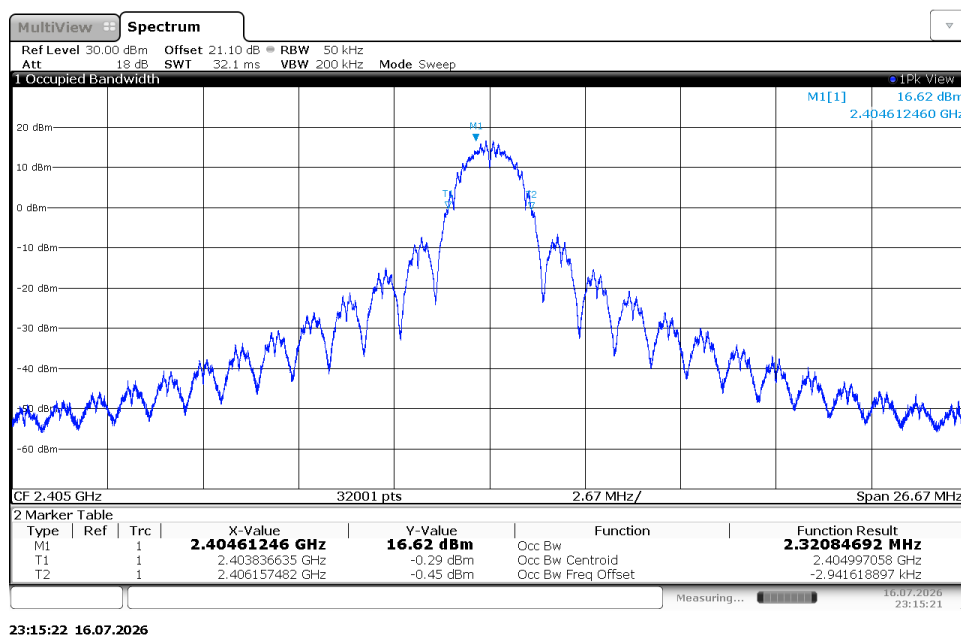
Test Summary:

The 99% Bandwidth was measured to be 2.37 MHz.

Test Result: There are no standards limits for the bandwidth. The information is for reference purposes only.

**Table 2.3.6-1 – Table 1 - 99% Occupied Bandwidth Results**

Configuration	Frequency (MHz)	99% Bandwidth (MHz)
Antenna 1	2405	2.3208
Antenna 1	2440	2.3686
Antenna 1	2475	2.3544
Antenna 2	2405	2.3153
Antenna 2	2440	2.3700
Antenna 2	2475	2.3511

**Figure 2.3.6-1 - 99% Occupied Bandwidth - Antenna 1 - 2405 MHz**

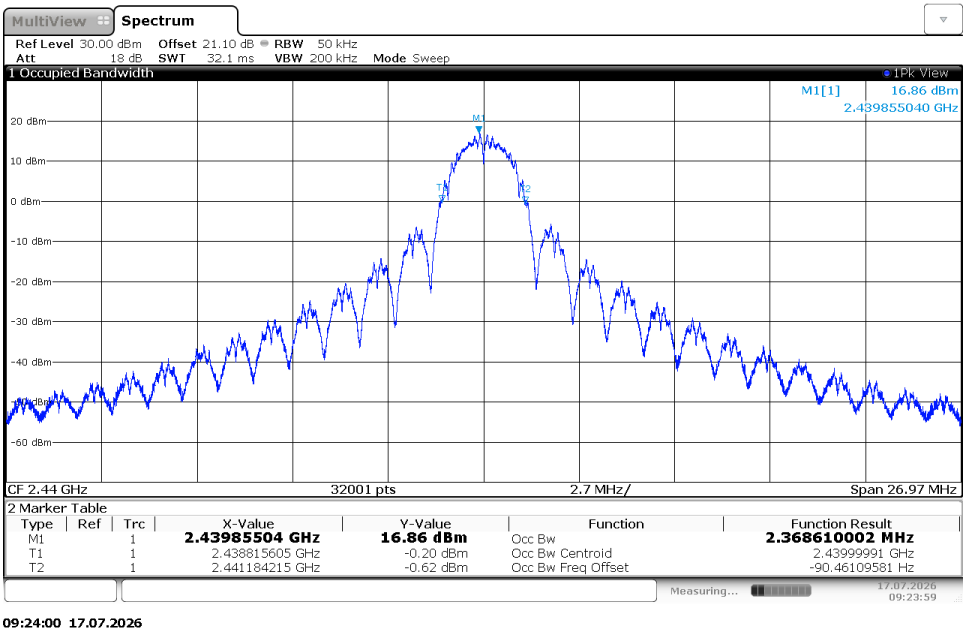


Figure 2.3.6-2 - 99% Occupied Bandwidth - Antenna 1 - 2440 MHz

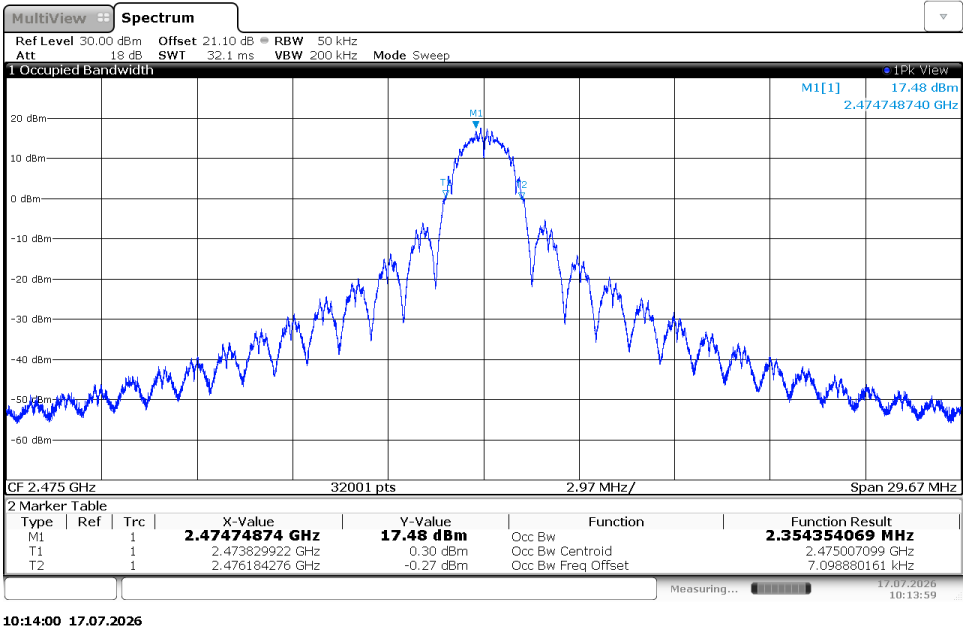


Figure 2.3.6-3 - 99% Occupied Bandwidth - Antenna 1 - 2475 MHz

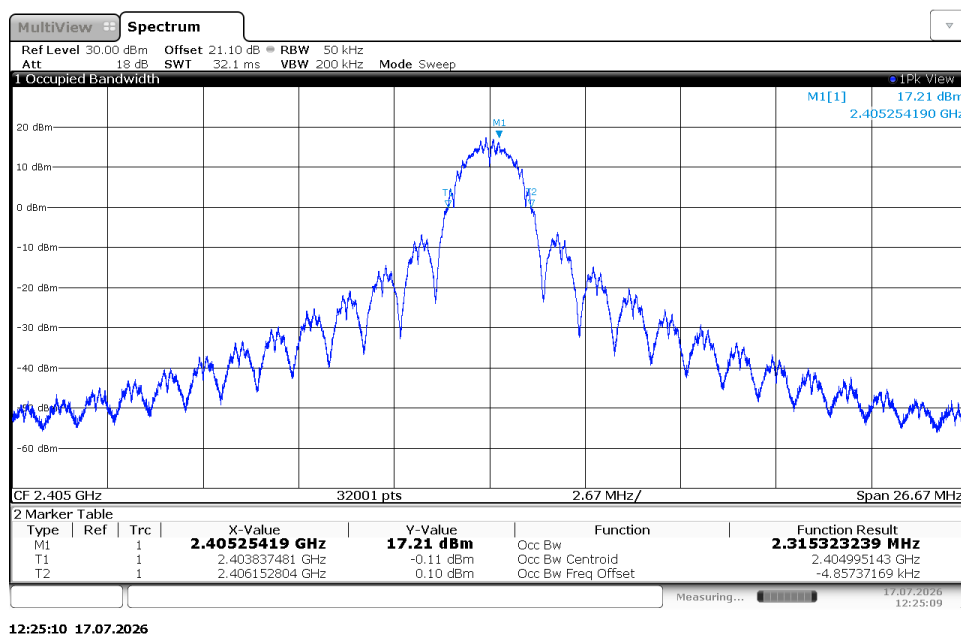


Figure 2.3.6-4 - 99% Occupied Bandwidth - Antenna 2 - 2405 MHz

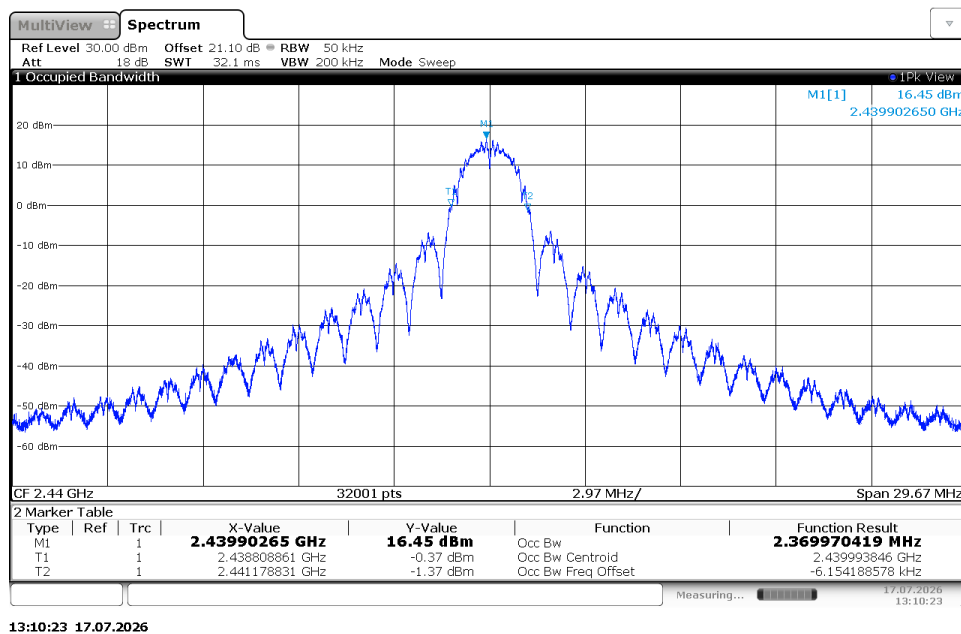


Figure 2.3.6-5 - 99% Occupied Bandwidth - Antenna 2 - 2440 MHz

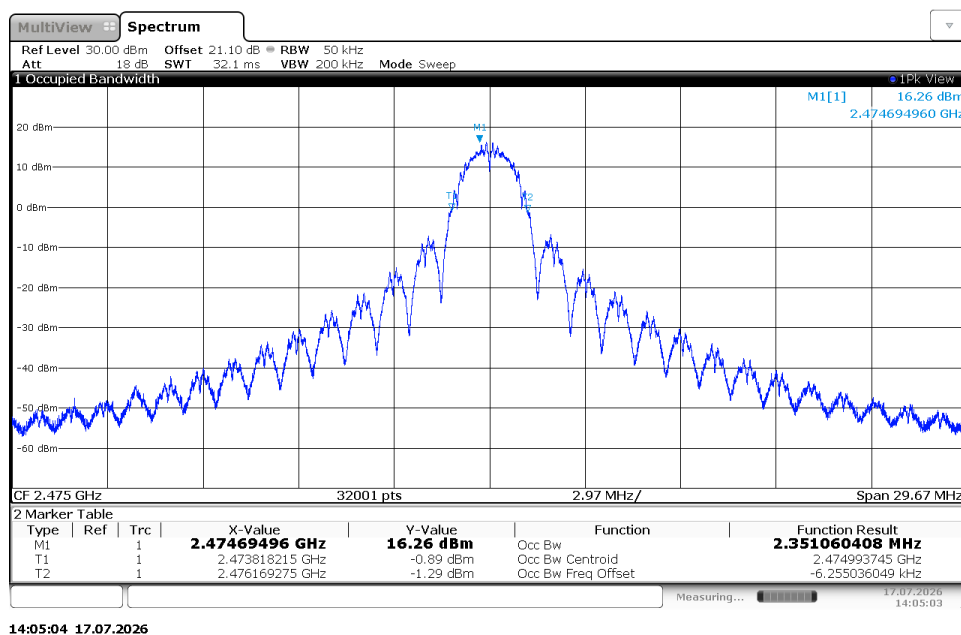


Figure 2.3.6-6 - 99% Occupied Bandwidth - Antenna 2 - 2475 MHz

2.3.7 Test Location and Test Equipment Used

This test was carried out in TÜV SÜD America, Inc., 141 14th Street NW, New Brighton, MN 55112, USA.

Device #	Manufacturer	Description	Model	Serial #	Cal Code	Cal Date	Cal Due
DEMC3049	Aeroflex Inmet	Atten 20dB 2.9mm-M/F, DC-26.5GH, 2W	26AH-20	1443	B	05/27/2025 06/12/2026	05/27/2026 06/12/2027
DEMC3085	Rohde & Schwarz	Signal & Spectrum Analyzer	FSW43	103997	G	08/29/2025	08/29/2026
BEMC02112	Teledyne Storm Products	Duratest 175 Cable 26.5GHz	921-0101-036	12-06-698	B	01/12/2026	01/12/2027

Cal Code G = Calibration performed by an accredited outside source.

Cal Code B = Calibration verification performed internally.

Cal Code Y = Passive Device, or Calibration not required when used with other calibrated equipment.

The test equipment was used only during the active cycle of the calibration period.



2.4 Maximum Output Power

2.4.1 Specification Reference

FCC Section 15.247(b)(3)

2.4.2 Equipment Under Test and Modification State

S/N: ADT-GW-FCC-#02

2.4.3 Date of Test

7/16/2026 to 7/17/2026

2.4.4 Test Method

The fundamental emission output power was measured in accordance with ANSI C63.10 Subclause 11.9.2.2.2 Method AVGSA-1. The RF output of the equipment under test was directly connected to the input of the spectrum analyzer through suitable attenuation. The amplitude offset of the spectrum analyzer was adjusted to account for cable and attenuator insertion losses.

2.4.5 Environmental Conditions

Ambient Temperature	22 to 23°C
Relative Humidity	40 to 41 %
Atmospheric Pressure	983 to 985 mbar

2.4.6 Test Results

AC Powered, Operating

Limit Clause FCC Part 15.247(b)(3)

The Maximum Output Power allowed for systems using digital modulation is 1 Watt (30 dBm)

Test Summary:

The maximum output power was measured to be 22.128 dBm.

Test Result: Pass



Table 2.4.6-1 – Table 1 - Average Conducted Output Power Results

Configuration	Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)	Margin to Limit (dB)	Result
Antenna 1	2405	21.061	30.00	8.939	Pass
Antenna 1	2440	21.755	30.00	8.245	Pass
Antenna 1	2475	22.128	30.00	7.872	Pass
Antenna 2	2405	21.613	30.00	8.387	Pass
Antenna 2	2440	21.136	30.00	8.864	Pass
Antenna 2	2475	20.805	30.00	9.195	Pass

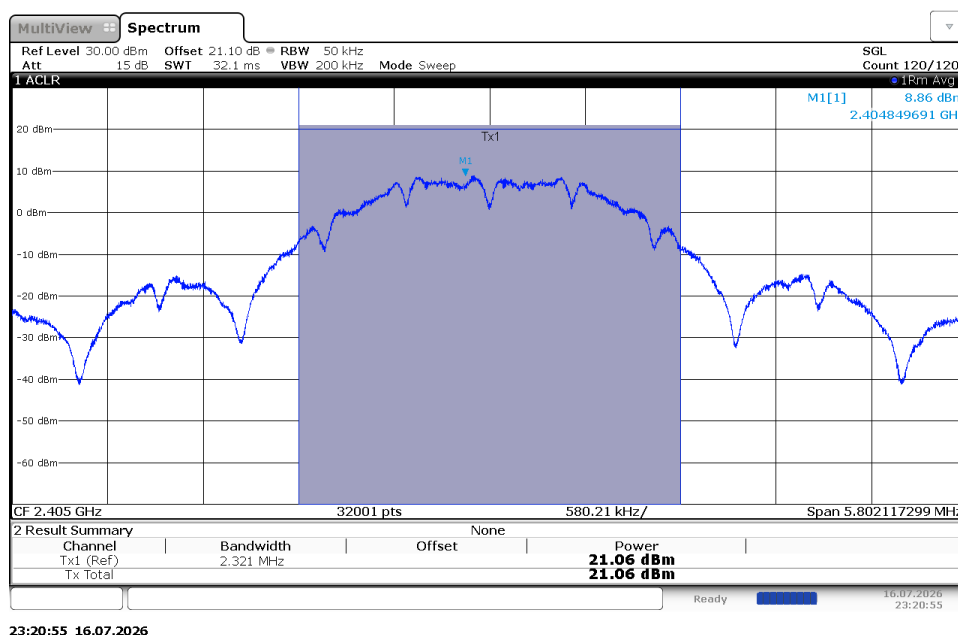


Figure 2.4.6-1 - Average Conducted Output Power - Antenna 1 - 2405 MHz

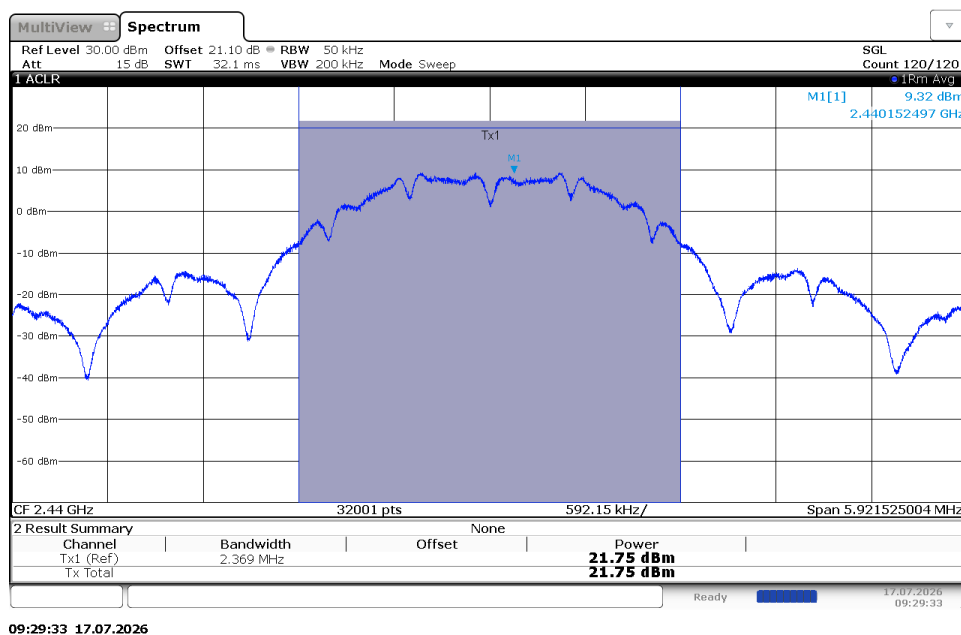


Figure 2.4.6-2 - Average Conducted Output Power - Antenna 1 - 2440 MHz

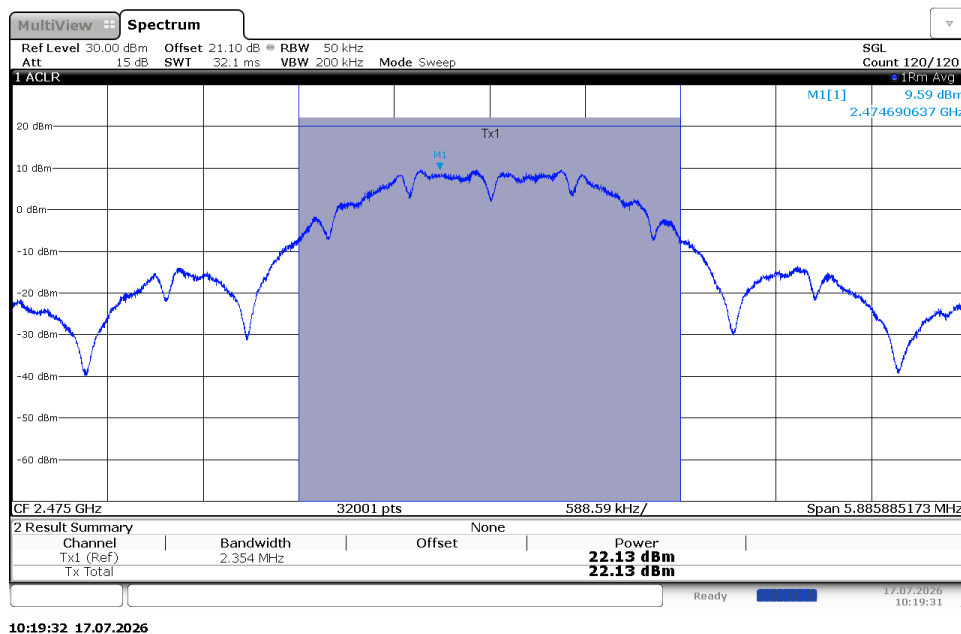


Figure 2.4.6-3 - Average Conducted Output Power - Antenna 1 - 2475 MHz

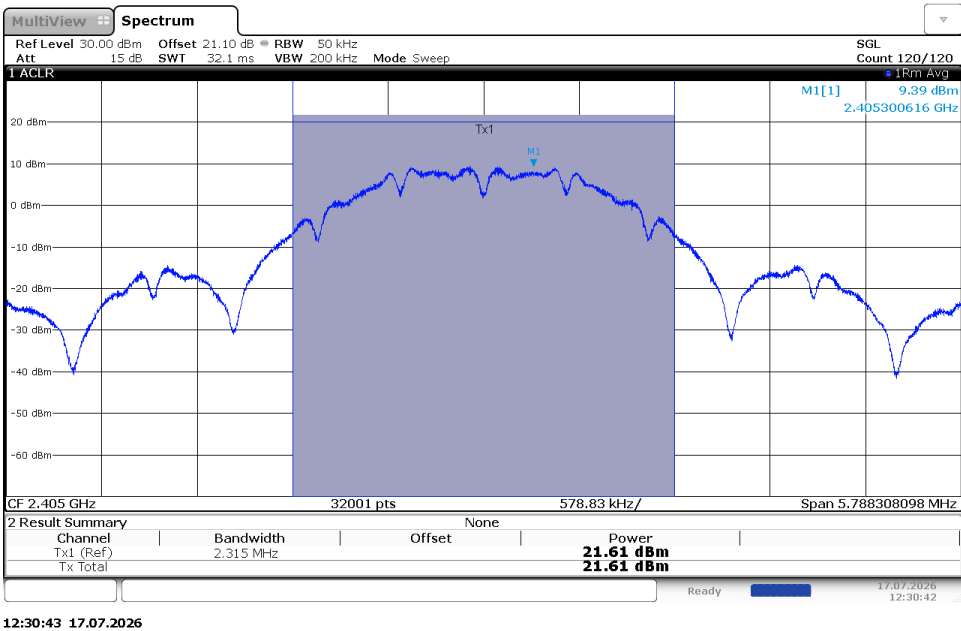


Figure 2.4.6-4 - Average Conducted Output Power - Antenna 2 - 2405 MHz

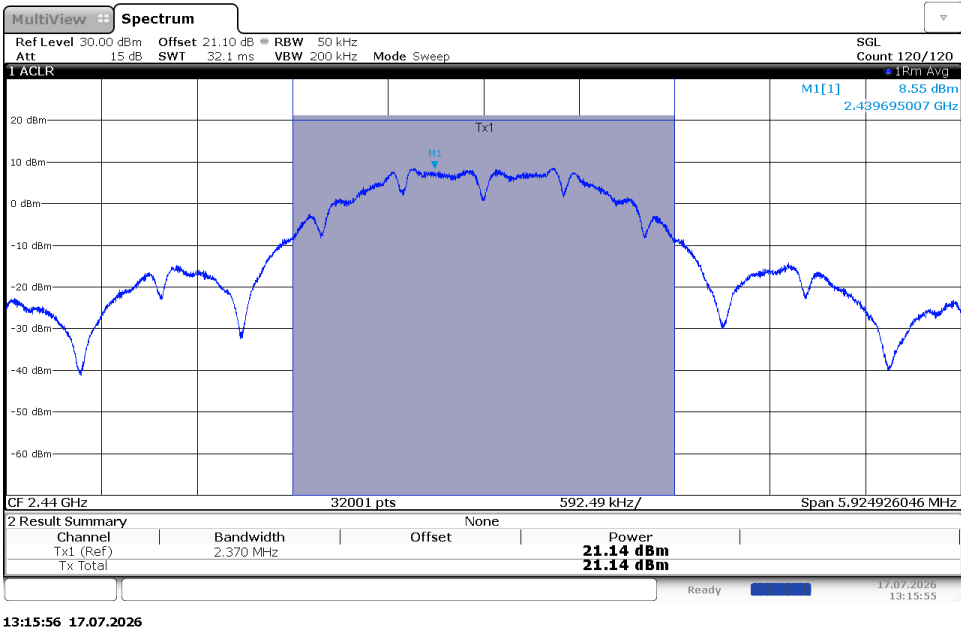


Figure 2.4.6-5 - Average Conducted Output Power - Antenna 2 - 2440 MHz

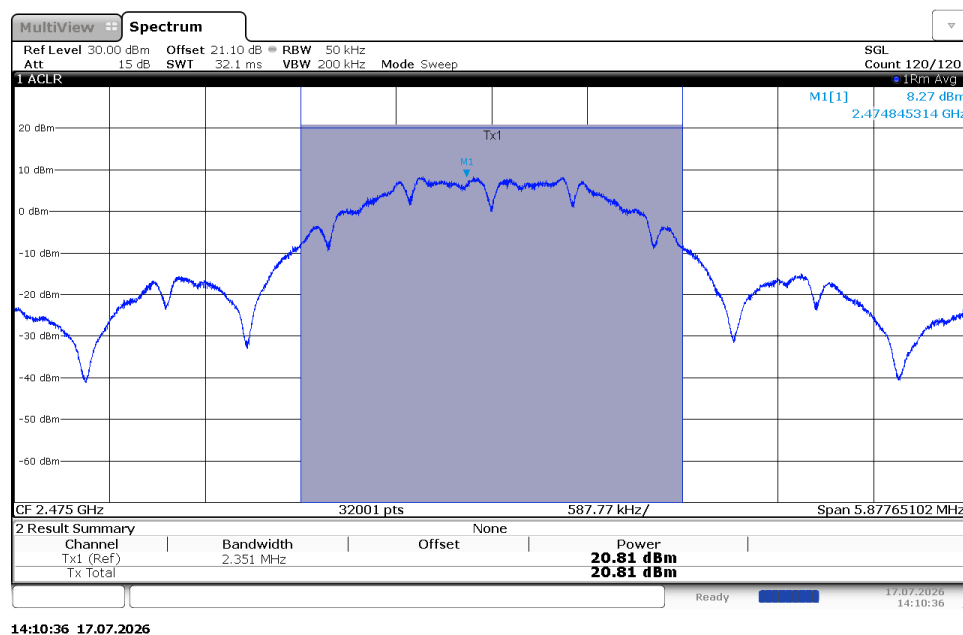


Figure 2.4.6-6 - Average Conducted Output Power - Antenna 2 - 2475 MHz

2.4.7 Test Location and Test Equipment Used

This test was carried out in TÜV SÜD America, Inc., 141 14th Street NW, New Brighton, MN 55112, USA.

Device #	Manufacturer	Description	Model	Serial #	Cal Code	Cal Date	Cal Due
DEMC3049	Aeroflex Inmet	Atten 20dB 2.9mm-M/F, DC-26.5GH, 2W	26AH-20	1443	B	05/27/2025	05/27/2026
						06/12/2026	06/12/2027
DEMC3085	Rohde & Schwarz	Signal & Spectrum Analyzer	FSW43	103997	G	08/29/2025	08/29/2026
BEMC02112	Teledyne Storm Products	Duratest 175 Cable 26.5GHz	921-0101-036	12-06-698	B	01/12/2026	01/12/2027

Cal Code G = Calibration performed by an accredited outside source.

Cal Code B = Calibration verification performed internally.

Cal Code Y = Passive Device, or Calibration not required when used with other calibrated equipment.

The test equipment was used only during the active cycle of the calibration period.



2.5 Band-Edge Compliance of RF Conducted Emissions

2.5.1 Specification Reference

FCC: Section 15.247(d)

2.5.2 Equipment Under Test and Modification State

S/N: ADT-GW-FCC-#02

2.5.3 Date of Test

7/16/2026 to 7/17/2026

2.5.4 Test Method

The RF Conducted Emissions at the Band-Edges were measured in accordance with Subclause 11.11 of ANSI C63.10. The RF output port of the EUT was connected to the input of the spectrum analyzer through suitable attenuation. The EUT was investigated at the lowest and highest channel available to determine band-edge compliance. For each measurement the spectrum analyzer's RBW was set to 100 kHz, and the VBW was set to ≥ 300 kHz. The amplitude offset of the spectrum analyzer was adjusted to account for cable and attenuator insertion losses.

2.5.5 Environmental Conditions

Ambient Temperature	22.0 to 23.0 °C
Relative Humidity	40.0 to 41.0 %
Atmospheric Pressure	983.0 to 985.0 mbar

2.5.6 Test Results

AC Powered, Operating

Limit Clause FCC Section 15.247(d)

In any 100 kHz bandwidth outside of the frequency band the radio frequency power shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of desired power. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB.

Test Summary:

All the emissions at the band-edge were attenuated by at least 30 dB below the fundamental.

Test Result: Pass

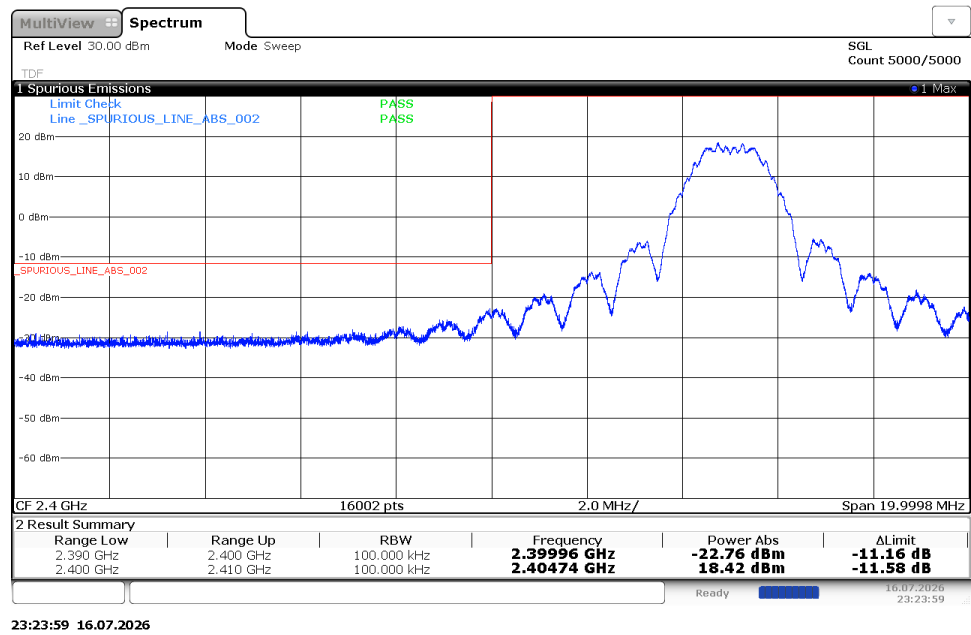


Figure 2.5.6-1 -- Conducted Band-Edge Results - Antenna 1 - 2405 MHz

Table 2.5.6-1 – Conducted Band-Edge Results - Antenna 1 - 2405 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2399.96188	-22.759	-11.600	-11.159	Pass

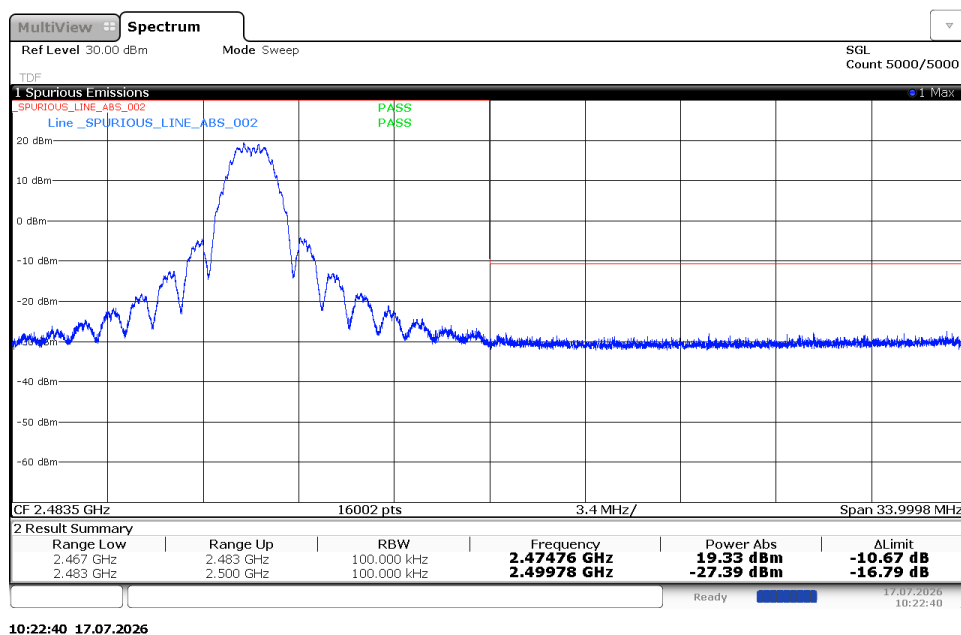


Figure 2.5.6-2 -- Conducted Band-Edge Results - Antenna 1 - 2475 MHz

Table 2.5.6-2 – Conducted Band-Edge Results - Antenna 1 - 2475 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2499.78281	-27.392	-10.600	-16.792	Pass

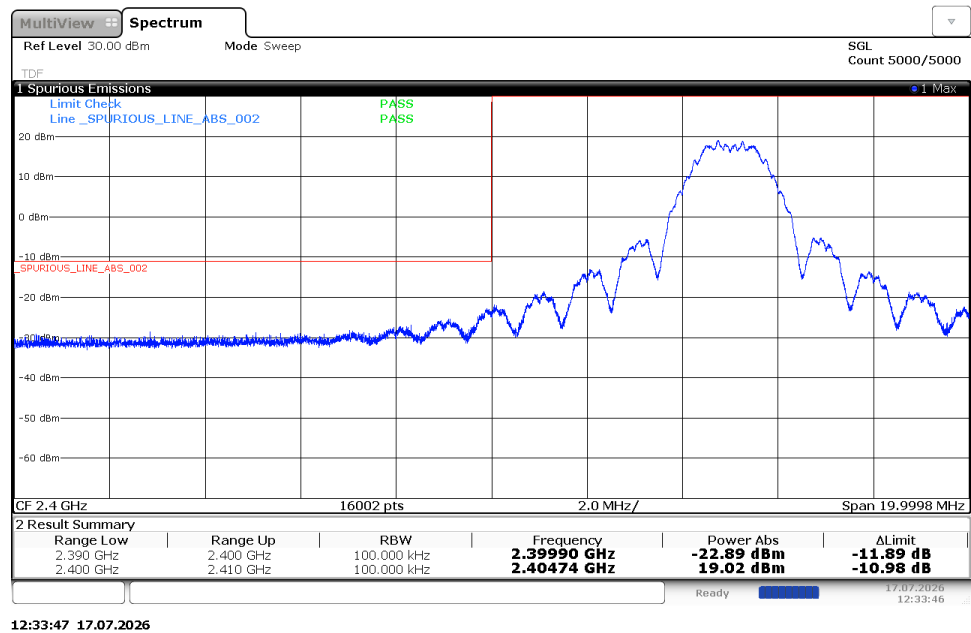


Figure 2.5.6-3 -- Conducted Band-Edge Results - Antenna 2 - 2405 MHz

Table 2.5.6-3 – Conducted Band-Edge Results - Antenna 2 - 2405 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2399.89564	-22.889	-11.00	-11.889	Pass

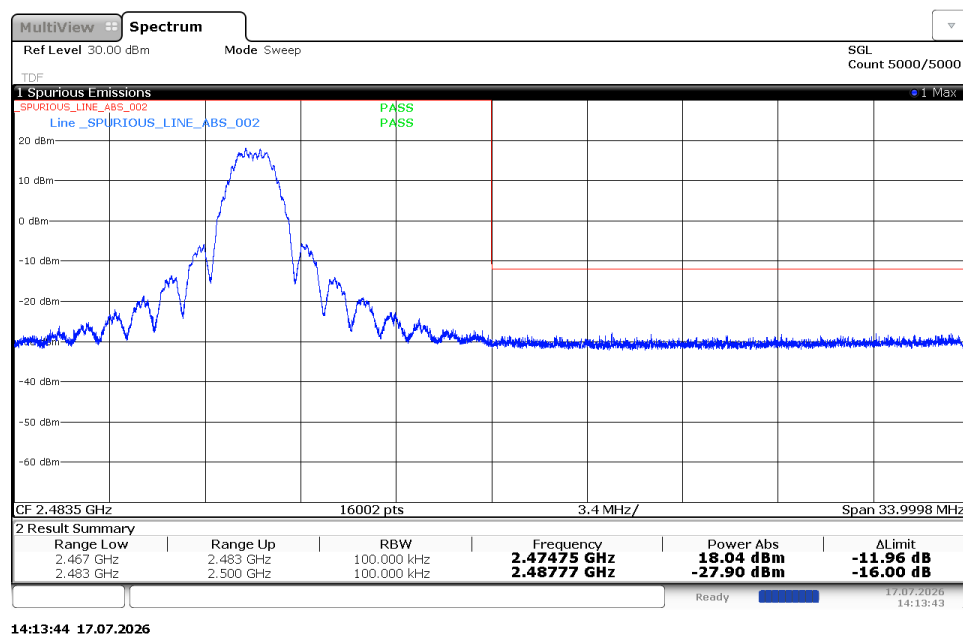


Figure 2.5.6-4 -- Conducted Band-Edge Results - Antenna 2 - 2475 MHz

Table 2.5.6-4 – Conducted Band-Edge Results - Antenna 2 - 2475 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
2487.77388	-27.902	-11.900	-16.002	Pass

2.5.7 Test Location and Test Equipment Used

This test was carried out in TÜV SÜD America, Inc., 141 14th Street NW, New Brighton, MN 55112, USA.

Device #	Manufacturer	Description	Model	Serial #	Cal Code	Cal Date	Cal Due
DEMC3049	Aeroflex Inmet	Atten 20dB 2.9mm-M/F, DC-26.5GH, 2W	26AH-20	1443	B	05/27/2025 06/12/2026	05/27/2026 06/12/2027
DEMC3085	Rohde & Schwarz	Signal & Spectrum Analyzer	FSW43	103997	G	08/29/2025	08/29/2026
BEMC02112	Teledyne Storm Products	Duratest 175 Cable 26.5GHz	921-0101-036	12-06-698	B	01/12/2026	01/12/2027

Cal Code G = Calibration performed by an accredited outside source.

Cal Code B = Calibration verification performed internally.

Cal Code Y = Passive Device, or Calibration not required when used with other calibrated equipment.

The test equipment was used only during the active cycle of the calibration period.



2.6 RF Conducted Spurious Emissions

2.6.1 Specification Reference

FCC: Section 15.247(d)

2.6.2 Equipment Under Test and Modification State

S/N: ADT-GW-FCC-#02

2.6.3 Date of Test

7/16/2026 to 7/17/2026

2.6.4 Test Method

The RF Conducted Spurious Emissions were measured in accordance with Subclause 11.11 of ANSI C63.10. The RF output port of the equipment under test was directly connected to the input of the spectrum analyzer. The EUT was investigated for conducted spurious emissions from 30 MHz to 25 GHz, 10 times the highest fundamental frequency. Measurements were made at the low, center and high channels of the EUT. For each measurement, the spectrum analyzer's RBW was set to 100 kHz and the VBW was set to 300 kHz. The peak Max Hold function of the analyzer was utilized. The amplitude offset of the spectrum analyzer was adjusted to account for cable and attenuator insertion losses.

2.6.5 Environmental Conditions

Ambient Temperature	22.0 to 23.0 °C
Relative Humidity	40.0 to 41.0 %
Atmospheric Pressure	983.0 to 985.0 mBar

2.6.6 Test Results

AC Powered, Operating

Limit Clause FCC Section 15.247(d)

In any 100 kHz bandwidth outside of the frequency band the radio frequency power shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of desired power. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB.

Test Summary:

All the emissions at the band-edge were attenuated by at least 30 dB below the fundamental.

Test Result: Pass

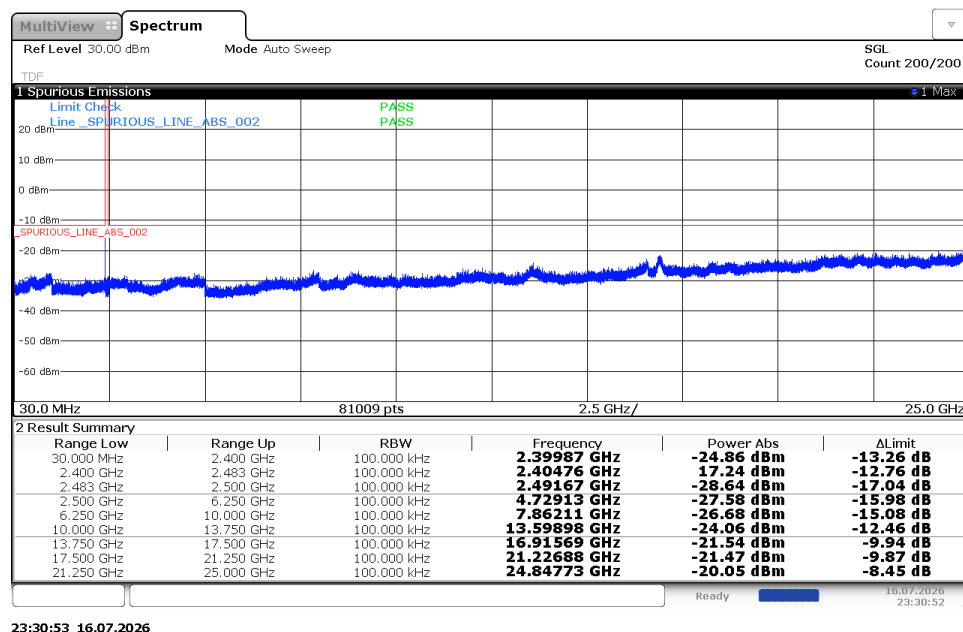


Figure 2.6.6-1 - Conducted Spurious Emissions Results - Antenna 1 - 2405 MHz

Table 2.6.6-1 – Conducted Spurious Emissions Results - Antenna 1 - 2405 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
959.59504	-27.523	-11.600	-15.923	Pass
2399.86835	-24.856	-11.600	-13.256	Pass
2484.71995	-29.308	-11.600	-17.708	Pass
2491.67484	-28.644	-11.600	-17.044	Pass
2912.66248	-28.334	-11.600	-16.734	Pass
4729.12732	-27.578	-11.600	-15.978	Pass
7862.11254	-26.677	-11.600	-15.077	Pass
9041.56483	-26.929	-11.600	-15.329	Pass
13598.97511	-24.063	-11.600	-12.463	Pass
16573.6446	-22.801	-11.600	-11.201	Pass
16915.68992	-21.541	-11.600	-9.941	Pass
21226.87757	-21.473	-11.600	-9.873	Pass
24847.72525	-20.052	-11.600	-8.452	Pass

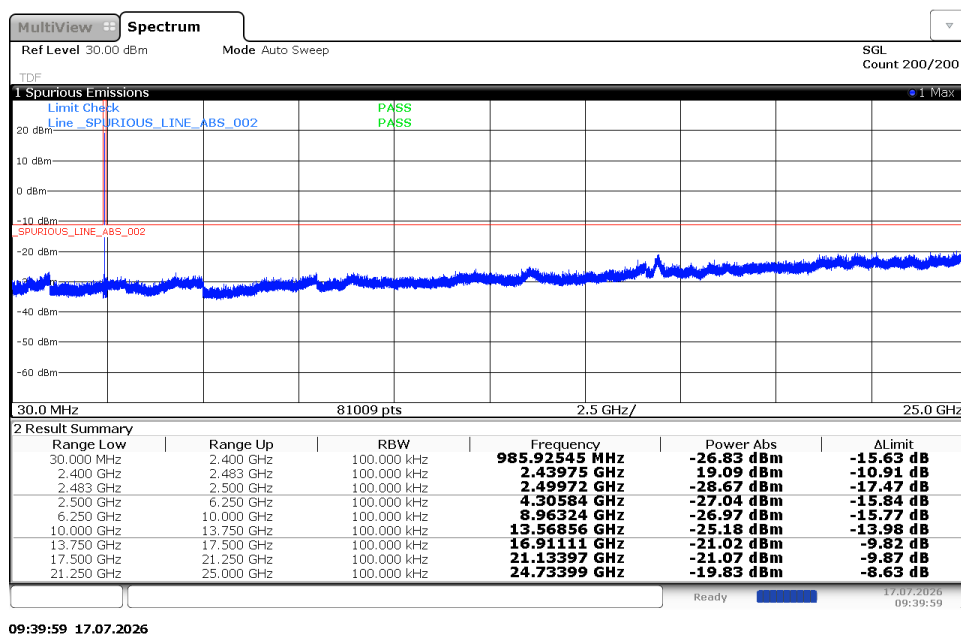


Figure 2.6.6-2 - Conducted Spurious Emissions Results - Antenna 1 - 2440 MHz

Table 2.6.6-2 – Conducted Spurious Emissions Results - Antenna 1 - 2440 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
985.92545	-26.825	-11.200	-15.625	Pass
2499.71678	-28.675	-11.200	-17.475	Pass
2871.00044	-28.355	-11.200	-17.155	Pass
4305.84102	-27.037	-11.200	-15.837	Pass
7972.51694	-27.083	-11.200	-15.883	Pass
8963.2402	-26.973	-11.200	-15.773	Pass
13568.56183	-25.177	-11.200	-13.977	Pass
16911.1071	-21.022	-11.200	-9.822	Pass
21133.97123	-21.069	-11.200	-9.869	Pass
24733.98789	-19.834	-11.200	-8.634	Pass

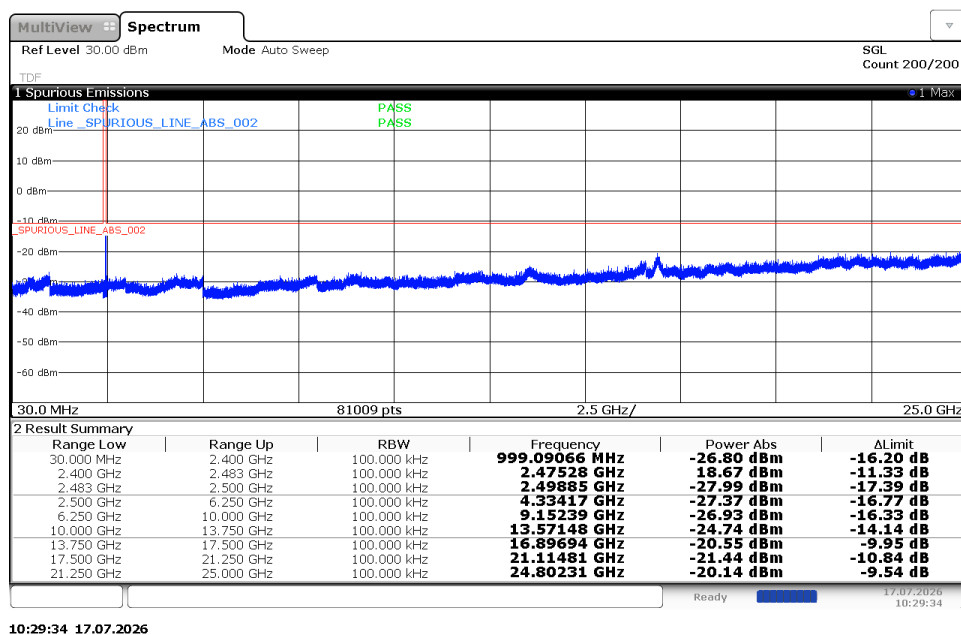


Figure 2.6.6-3 - Conducted Spurious Emissions Results - Antenna 1 - 2475 MHz

Table 2.6.6-3 – Conducted Spurious Emissions Results - Antenna 1 - 2475 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
999.09066	-26.798	-10.600	-16.198	Pass
2498.84604	-27.991	-10.600	-17.391	Pass
2733.93234	-28.248	-10.600	-17.648	Pass
4334.1712	-27.373	-10.600	-16.773	Pass
9152.38585	-26.932	-10.600	-16.332	Pass
13571.47817	-24.739	-10.600	-14.139	Pass
16492.40362	-23.115	-10.600	-12.515	Pass
16896.94201	-20.549	-10.600	-9.949	Pass
21114.80669	-21.437	-10.600	-10.837	Pass
24802.31363	-20.135	-10.600	-9.535	Pass

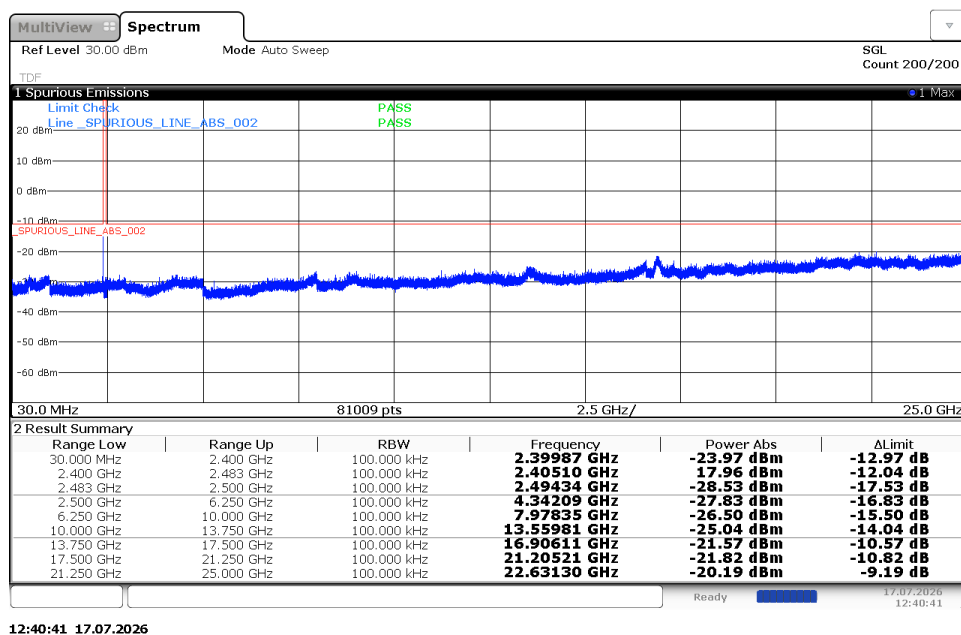


Figure 2.6.6-4 - Conducted Spurious Emissions Results - Antenna 2 - 2405 MHz

Table 2.6.6-4 – Conducted Spurious Emissions Results - Antenna 2 - 2405 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
971.18042	-27.818	-11.00	-16.818	Pass
2399.86835	-23.966	-11.00	-12.966	Pass
2494.34021	-28.529	-11.00	-17.529	Pass
2498.85704	-28.618	-11.00	-17.618	Pass
2835.58771	-27.927	-11.00	-16.927	Pass
4342.08699	-27.826	-11.00	-16.826	Pass
5304.06344	-29.901	-11.00	-18.901	Pass
7978.34963	-26.498	-11.00	-15.498	Pass
9038.64848	-26.664	-11.00	-15.664	Pass
13559.8128	-25.043	-11.00	-14.043	Pass
16598.64182	-22.766	-11.00	-11.766	Pass
16906.10765	-21.572	-11.00	-10.572	Pass
21205.21331	-21.821	-11.00	-10.821	Pass
22631.30486	-20.186	-11.00	-9.186	Pass

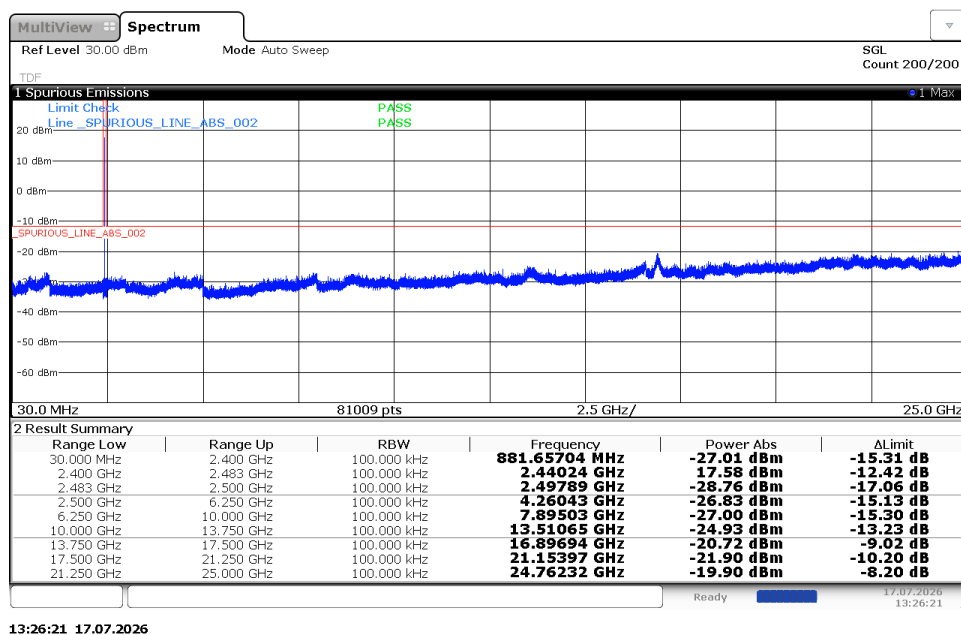


Figure 2.6.6-5 - Conducted Spurious Emissions Results - Antenna 2 - 2440 MHz

Table 2.6.6-5 – Conducted Spurious Emissions Results - Antenna 2 - 2440 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
881.65704	-27.008	-11.700	-15.308	Pass
2483.9262	-28.901	-11.700	-17.201	Pass
2497.88548	-28.757	-11.700	-17.057	Pass
2901.83035	-28.038	-11.700	-16.338	Pass
4260.4294	-26.826	-11.700	-15.126	Pass
7895.02555	-27.004	-11.700	-15.304	Pass
9094.47561	-27.106	-11.700	-15.406	Pass
12850.3083	-25.952	-11.700	-14.252	Pass
13510.65159	-24.931	-11.700	-13.231	Pass
16896.94201	-20.718	-11.700	-9.018	Pass
21153.969	-21.903	-11.700	-10.203	Pass
24762.31808	-19.904	-11.700	-8.204	Pass

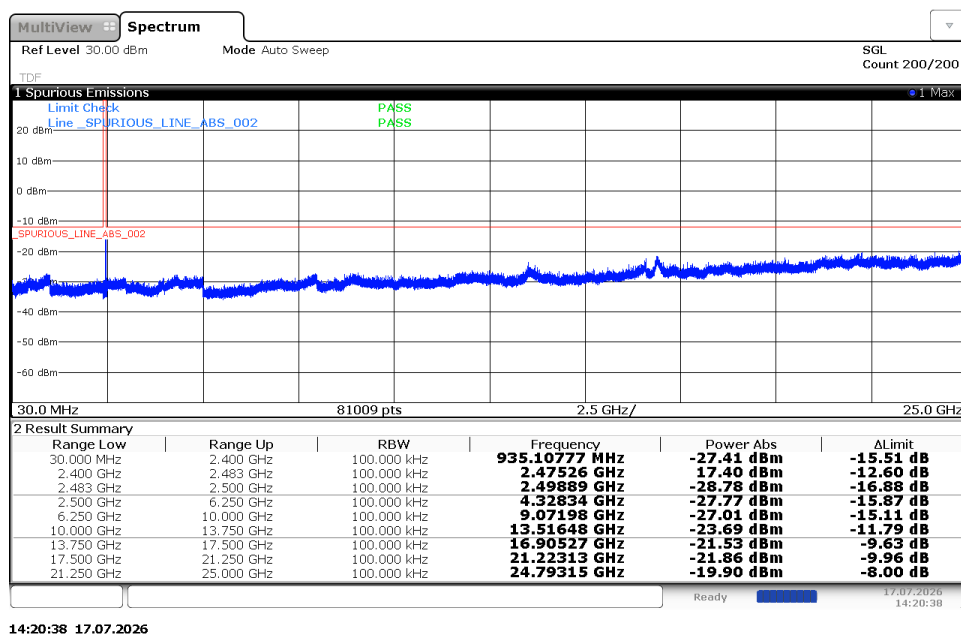


Figure 2.6.6-6 - Conducted Spurious Emissions Results - Antenna 2 - 2475 MHz

Table 2.6.6-6 – Conducted Spurious Emissions Results - Antenna 2 - 2475 MHz

Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Result
935.10777	-27.414	-11.900	-15.514	Pass
2255.57771	-29.142	-11.900	-17.242	Pass
2498.89004	-28.782	-11.900	-16.882	Pass
2714.7678	-28.446	-11.900	-16.546	Pass
4328.33852	-27.768	-11.900	-15.868	Pass
7945.85324	-27.197	-11.900	-15.297	Pass
9071.97811	-27.014	-11.900	-15.114	Pass
13516.48428	-23.686	-11.900	-11.786	Pass
13767.28975	-25.357	-11.900	-13.457	Pass
16597.80858	-22.449	-11.900	-10.549	Pass
16905.27441	-21.531	-11.900	-9.631	Pass
21223.12799	-21.856	-11.900	-9.956	Pass
22256.76314	-20.262	-11.900	-8.362	Pass
24793.14798	-19.901	-11.900	-8.001	Pass



2.6.7 Test Location and Test Equipment Used

This test was carried out in TÜV SÜD America, Inc., 141 14th Street NW, New Brighton, MN 55112, USA.

Device #	Manufacturer	Description	Model	Serial #	Cal Code	Cal Date	Cal Due
DEMC3049	Aeroflex Inmet	Atten 20dB 2.9mm-M/F, DC-26.5GH, 2W	26AH-20	1443	B	05/27/2025 06/12/2026	05/27/2026 06/12/2027
DEMC3085	Rohde & Schwarz	Signal & Spectrum Analyzer	FSW43	103997	G	08/29/2025	08/29/2026
BEMC02112	Teledyne Storm Products	Duratest 175 Cable 26.5GHz	921-0101-036	12-06-698	B	01/12/2026	01/12/2027

Cal Code G = Calibration performed by an accredited outside source.

Cal Code B = Calibration verification performed internally.

Cal Code Y = Passive Device, or Calibration not required when used with other calibrated equipment.

The test equipment was used only during the active cycle of the calibration period.



2.7 Radiated Spurious Emissions into Restricted Frequency Bands

2.7.1 Specification Reference

FCC Sections: 15.205, 15.209

2.7.2 Equipment Under Test and Modification State

S/N: ADT_DVT #69

2.7.3 Date of Test

6/10/2026 to 6/16/2026

2.7.4 Test Method

Radiated emissions tests were made over the frequency range of 9 kHz to 26.5 GHz, at least 10 times the highest fundamental frequency. Each emission found to be in a restricted band as defined by section 15.205, including any emission at the operational band-edge, was compared to the radiated emission limits as defined in Section 15.209.

For measurements below 30 MHz, the receive antenna height was set to 1 m and the EUT was rotated through 360 degrees. The resolution bandwidth was set to 200 Hz below 150 kHz and to 9 kHz above 150 kHz.

The EUT was rotated through 360° and the receive antenna height was varied from 1m to 4m so that the maximum radiated emissions level would be detected. For frequencies below 1000 MHz, quasi-peak measurements were made using a resolution bandwidth RBW of 120 kHz and a video bandwidth VBW of 300 kHz. For frequencies above 1000 MHz, peak measurements are made with RBW of 1 MHz and VBW of 3 MHz. Average measurements are performed using an RMS detector.

2.7.5 Duty Cycle Correction

The EUT was configured to transmit at 100 % duty cycle during the evaluation. Per the device's theory of operation, the maximum duty cycle during normal use is 6.976 %corresponding to a Duty Cycle Correction Factor of $20 \cdot \log(6.976/100) = -23.13$ dB. The corresponding duty cycle correction factor was applied to the peak measurements for the corrected average results for the emissions related to the fundamental per the FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02.

2.7.6 Environmental Conditions

Ambient Temperature	24.1 °C
Relative Humidity	35 %
Atmospheric Pressure	976 mbar

2.7.7 Additional Observations

Measurements were made using BAT-EMC (2024.0.9.5) automated software. The reported level is the actual level with all the correction factors factored in. Correction Factor column is for informational purposes only.



2.7.8 Test Results

AC Powered, Operating

Limit Clause FCC Sections 15.205, 15.209

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.4090-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

** Except as provided in paragraph (g) of FCC Part 15.209, fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

Test Summary:

The emissions within the restricted bands meet the aforementioned limits.

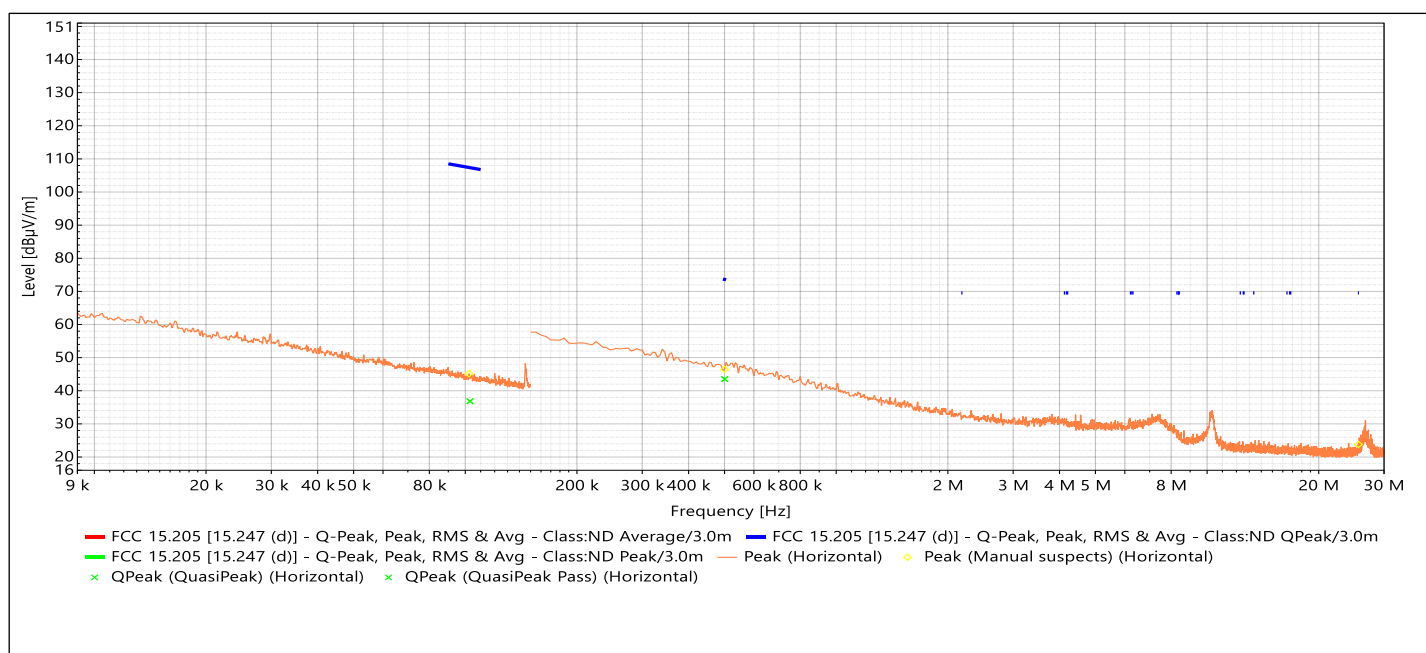
Test Result: Pass



Spurious - 9kHz-30MHz -Channel Low 11 - 2405 MHz - Horizontal Co-Planar

Frequency Range	Antenna Distance	Antenna Polarization	RBW	Step Size	Sweep Time
9 kHz - 150 kHz	3m	Horizontal	200 Hz	1411 Pts	5 ms/MHz
150 kHz - 30 MHz	3m	Horizontal	9 kHz	5971 Pts	5 ms/MHz

Test Date	Test Area	Tested By	Temperature	Humidity	Pressure
6/15/2026	3mSAC	Rafael Aguiar Cota	24.4 °C	30 %	973 mBar



Technology	Frequency	Channel	Mode	EUT Orientation	Limit	Test Results
RF6	2405 MHz	11	TX	Y-axis	FCC 15.205 [15.247 (d)] - Q-Peak, Peak, & Avg	Pass

Figure 2.7.8-1 – Radiated Emissions Test Results

Test Notes:

- Antenna 1 - Horizontal Co-Planar
- Graphical data is provided for informational purposes only. Final levels are provided in tabular format.

**Table 2.7.8-1– Radiated Emissions Test Results**

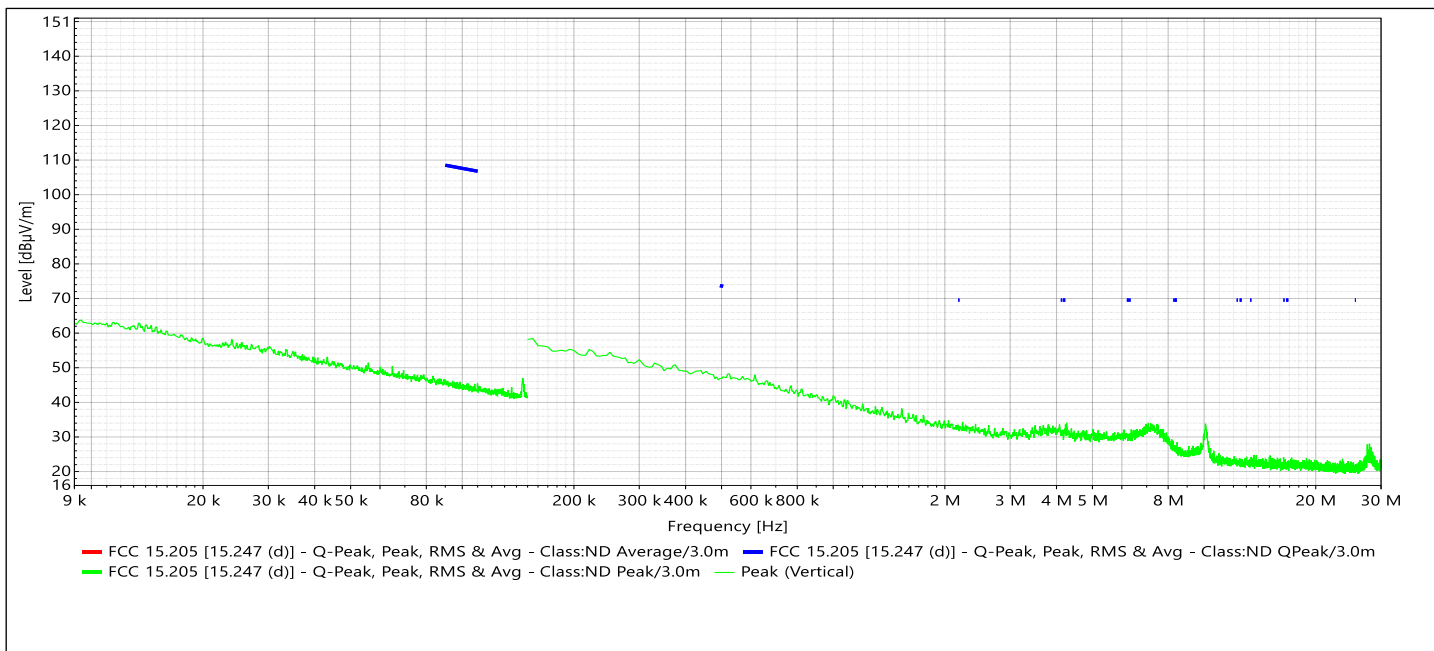
Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (°)	Height (m)	Polarity	Result
0.103	36.84	107.35	-70.51	299.00	1.00	Horizontal	Pass
0.500	43.51	73.62	-30.11	269.00	1.00	Horizontal	Pass
25.596	13.99	69.54	-55.56	205.00	1.00	Horizontal	Pass



Spurious - 9kHz-30MHz -Channel Low 11 - 2405 MHz - Vertical Co-Axial

Frequency Range	Antenna Distance	Antenna Polarization	RBW	Step Size	Sweep Time
9 kHz - 150 kHz	3m	Vertical	200 Hz	1411 Pts	5 ms/MHz
150 kHz - 30 MHz	3m	Vertical	9 kHz	5971 Pts	5 ms/MHz

Test Date	Test Area	Tested By	Temperature	Humidity	Pressure
6/16/2026	3mSAC	Rafael Aguiar Cota	27 °C	28 %	970 mBar



Technology	Frequency	Channel	Mode	EUT Orientation	Limit	Test Results
RF6	2405 MHz	11	TX	Y-axis	FCC 15.205 [15.247 (d)] - Q-Peak, Peak, & Avg	Pass

Figure 2.7.8-2 – Radiated Emissions Test Results

Test Notes:

- Antenna 1 - Vertical Co-Axial
- Graphical data is provided for informational purposes only. Final levels are provided in tabular format.

Table 2.7.8-2– Radiated Emissions Test Results

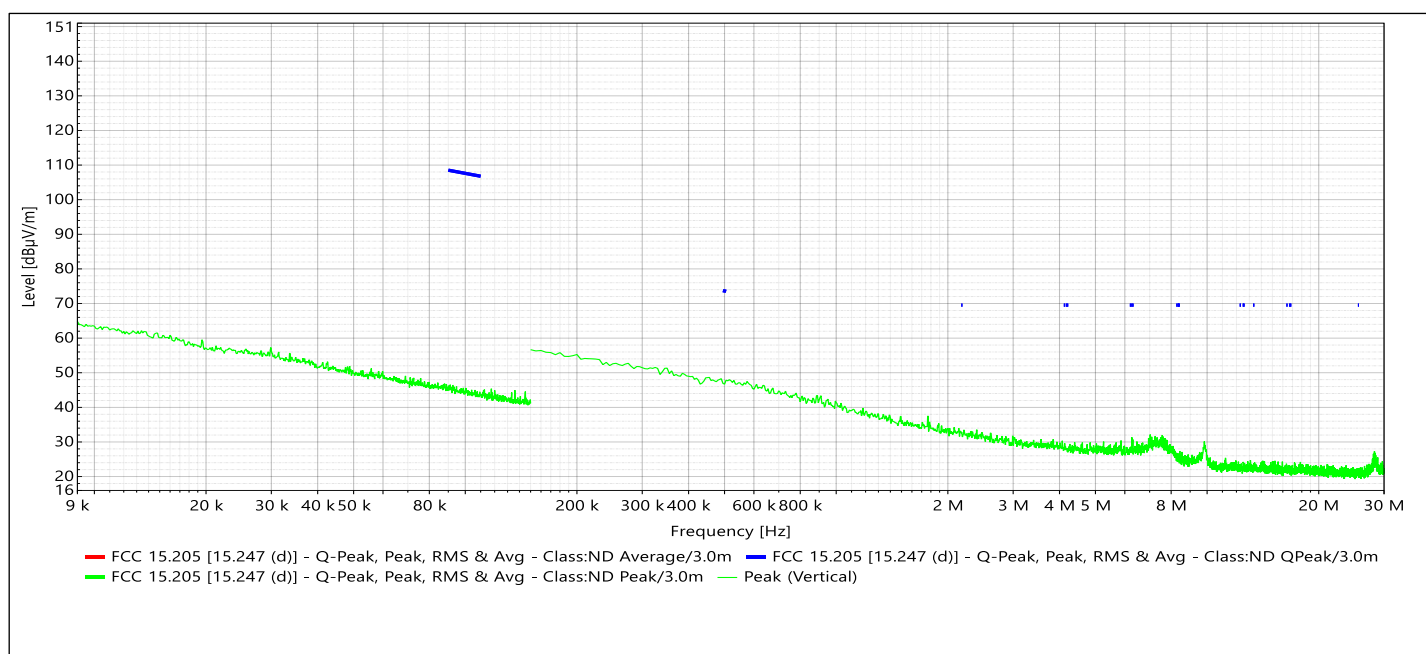
Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (°)	Height (m)	Polarity	Result
0.504	43.48	73.54	-30.06	341.00	1.00	Vertical	Pass



Spurious - 9kHz-30MHz -Channel Low 11 - 2405 MHz - Vertical Co-Planar

Frequency Range	Antenna Distance	Antenna Polarization	RBW	Step Size	Sweep Time
9 kHz - 150 kHz	3m	Vertical	200 Hz	1411 Pts	5 ms/MHz
150 kHz - 30 MHz	3m	Vertical	9 kHz	5971 Pts	5 ms/MHz

Test Date	Test Area	Tested By	Temperature	Humidity	Pressure
6/16/2026	3mSAC	Rafael Aguiar Cota	24 °C	28 %	970 mBar



Technology	Frequency	Channel	Mode	EUT Orientation	Limit	Test Results
RF6 1 Mbps	2405 MHz	11	TX	Y-axis	FCC 15.205 [15.247 (d)] - Q-Peak, Peak, & Avg	Pass

Figure 2.7.8-3 – Radiated Emissions Test Results

Test Notes:

- Antenna 1 - Vertical Co-Planar
- Graphical data is provided for informational purposes only. Final levels are provided in tabular format.

Table 2.7.8-3– Radiated Emissions Test Results

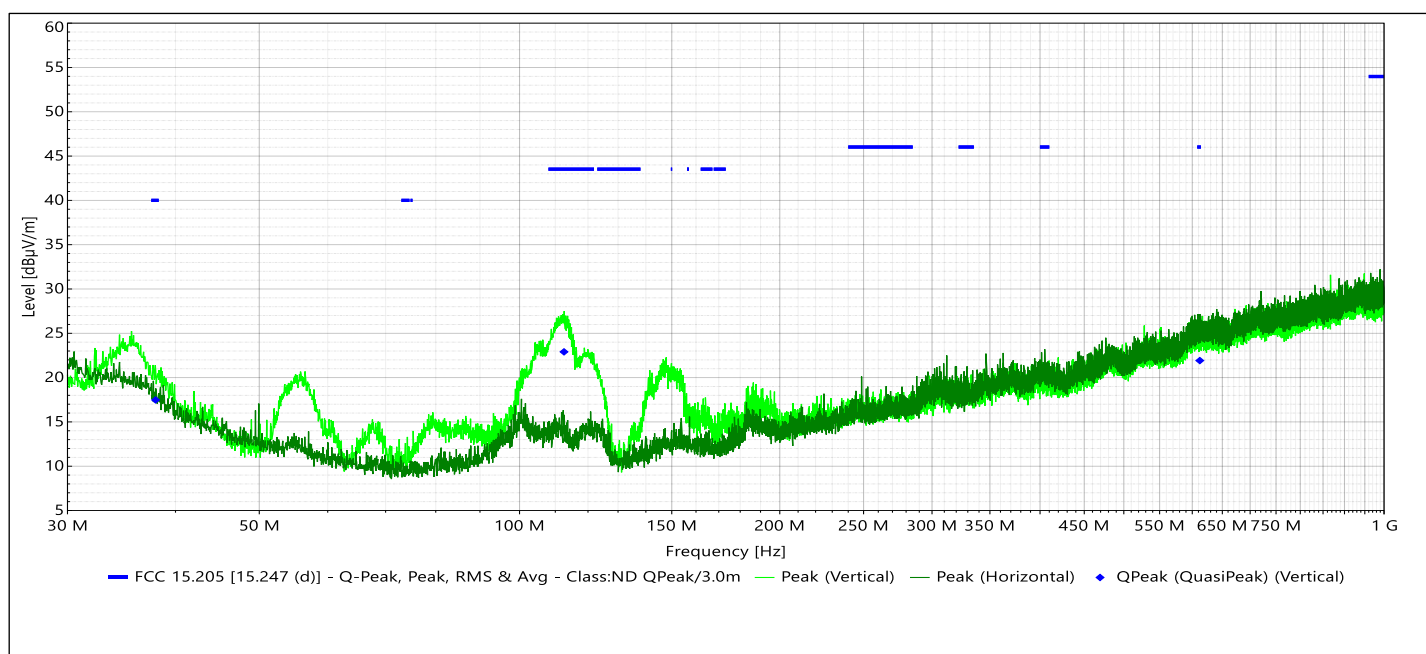
Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (°)	Height (m)	Polarity	Result
0.504	43.73	73.54	-29.81	0.00	1.00	Vertical	Pass



Spurious Emissions 30M-1GHz - Channel 11 2405 MHz

Frequency Range	Antenna Distance	Antenna Polarization	RBW	Step Size	Sweep Time
30 MHz - 1 GHz	3m	Vertical	120 kHz	20001 Pts	Auto
30 MHz - 1 GHz	3m	Horizontal	120 kHz	20001 Pts	Auto

Test Date	Test Area	Tested By	Temperature	Humidity	Pressure
6/12/2026	STS	Rafael Aguiar Cota	24.1 °C	35 %	976 mBar



Technology	Frequency	Channel	Mode	EUT Orientation	Limit	Test Results
2.4G RF6	2405 MHz	11	TX	Y-axis	FCC 15.205 [15.247 (d)] - Q-Peak, Peak, & Avg	Pass

Figure 2.7.8-4 – Radiated Emissions Test Results

Test Notes:

- Power 32, Antenna 1
- Graphical data is provided for informational purposes only. Final levels are provided in tabular format.

Table 2.7.8-4– Radiated Emissions Test Results

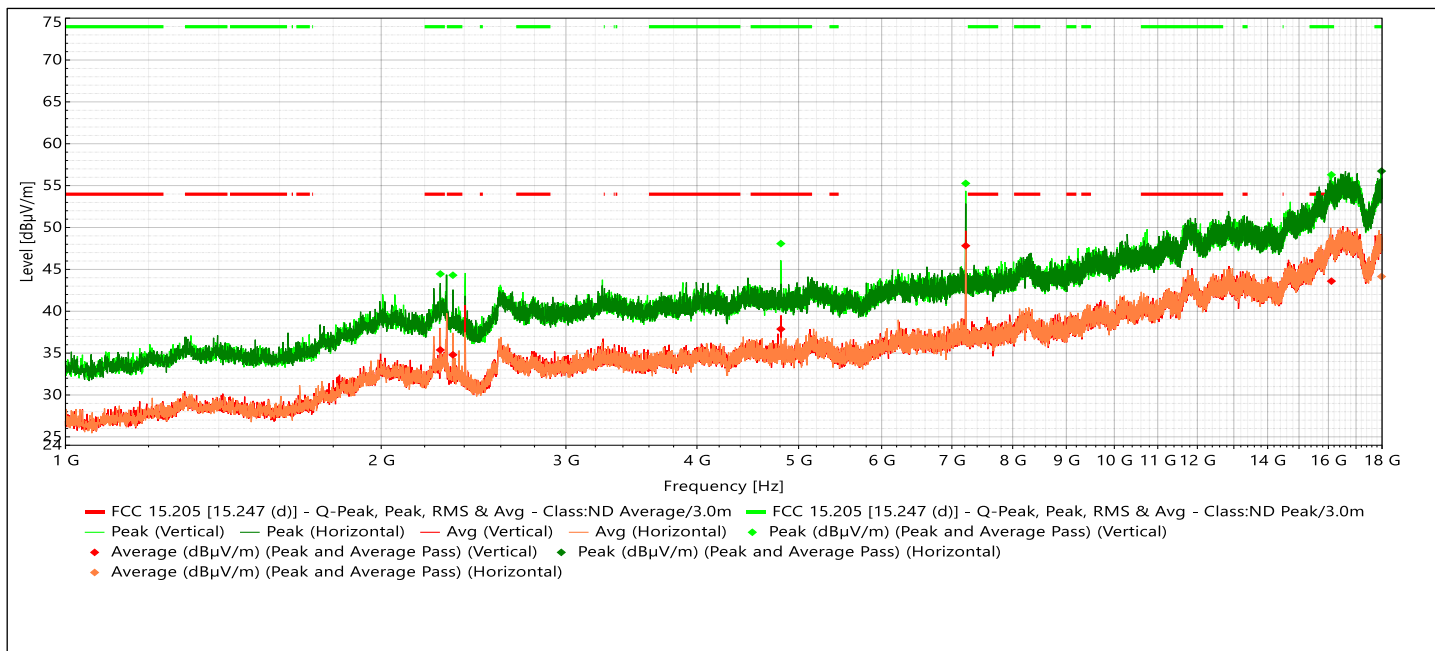
Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (°)	Height (m)	Polarity	Result
37.936	17.48	40.00	-22.52	4.00	1.00	Vertical	Pass
112.579	22.90	43.52	-20.62	302.00	1.00	Vertical	Pass
612.178	21.92	46.02	-24.10	67.00	2.91	Vertical	Pass



Spurious Emissions 1 - 18GHz - Channel Low 11 - 2405 MHz

Frequency Range	Antenna Distance	Antenna Polarization	RBW	Step Size	Sweep Time
1 GHz - 18 GHz	3m	Vertical	1 MHz	34001 Pts	200 ms
1 GHz - 18 GHz	3m	Horizontal	1 MHz	34001 Pts	200 ms

Test Date	Test Area	Tested By	Temperature	Humidity	Pressure
6/10/2026	3mSAC	Duranta K. Barua	26.8 °C	39 %	968 mBar



Technology	Frequency	Channel	Mode	EUT Orientation	Limit	Test Results
2.4G RF6	2405 MHz	11	TX	Y-axis	h	Pass

Figure 2.7.8-5 – Radiated Emissions Test Results

Test Notes:

- Power 32, Antenna 1
- Graphical data is provided for informational purposes only. Final levels are provided in tabular format.
- A duty cycle correction factor corresponding to $20 \cdot \log(6.976/100) = -23.13$ dB was applied to the peak values for the average levels related to the fundamental. The other average levels were measured directly using a spectrum analyzer.

**Table 2.7.8-5– Radiated Emissions Test Results**

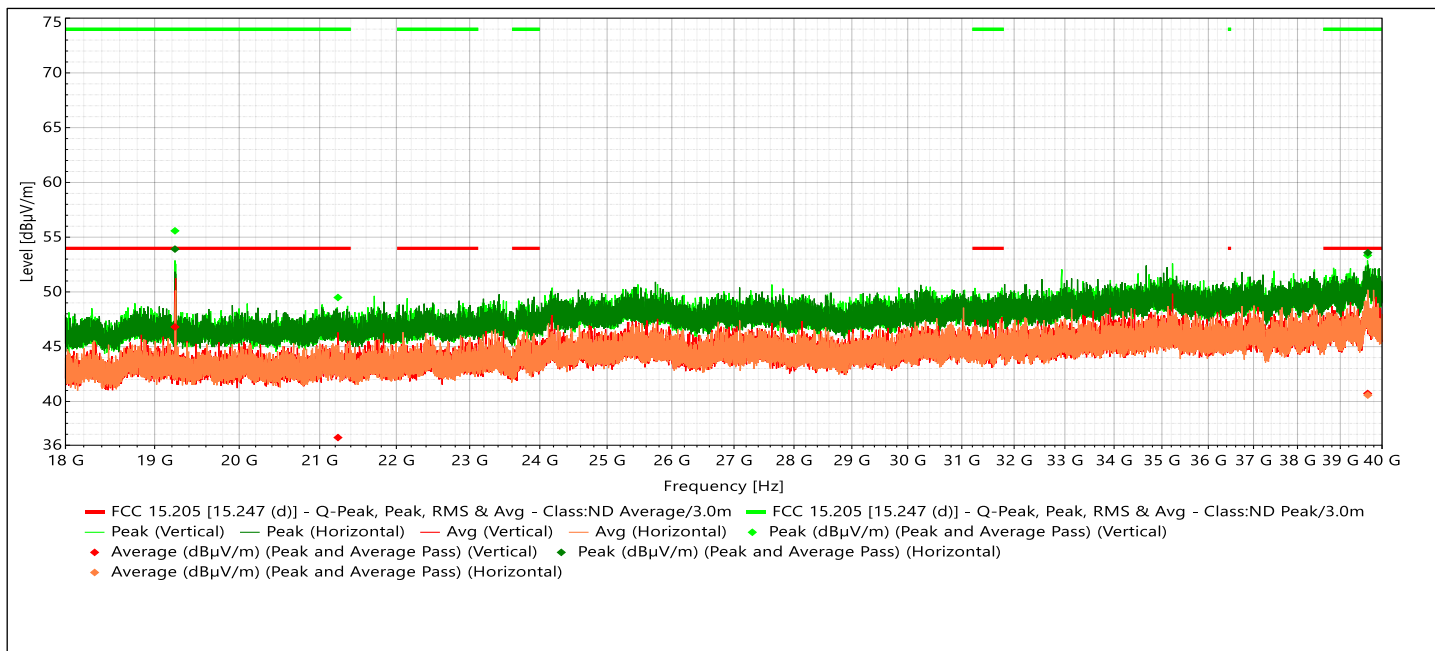
Frequency (MHz)	Peak Level (dBuV/m)	Peak Limit (dBuV/m)	Peak Margin (dB)	Average Level (dBuV/m)	Average Limit (dBuV/m)	Average Margin (dB)	Azimuth (°)	Height (m)	Polarity	Result
2277.037	44.46	73.98	-29.52	35.37	53.98	-18.61	48.00	4.00	Vertical	Pass
2340.915	44.30	73.98	-29.68	34.8	53.98	-19.18	87.00	2.08	Vertical	Pass
4808.949	48.08	73.98	-25.90	24.95	53.98	-29.03	210.00	1.00	Vertical	Pass
7216.363	55.27	----	----	32.14	----	----	140.00	1.18	Vertical	Pass
16105.750	56.30	73.98	-17.68	43.6	53.98	-10.38	167.00	1.00	Vertical	Pass
17979.177	56.73	73.98	-17.25	44.14	53.98	-9.84	202.00	1.00	Horizontal	Pass



Spurious Emissions 18 - 40GHz - Channel Low 11 - 2405 MHz

Frequency Range	Antenna Distance	Antenna Polarization	RBW	Step Size	Sweep Time
18 GHz - 40 GHz	3m	Vertical	1 MHz	44001 Pts	Auto
18 GHz - 40 GHz	3m	Horizontal	1 MHz	44001 Pts	Auto

Test Date	Test Area	Tested By	Temperature	Humidity	Pressure
6/11/2026	3mSAC	Duranta K. Barua	24.5 °C	34 %	974 mBar



Technology	Frequency	Channel	Mode	EUT Orientation	Limit	Test Results
RF6	2405 MHz	0	TX	Y-axis	FCC 15.205 [15.247 (d)] - Q-Peak, Peak, & Avg	Pass

Figure 2.7.8-6 – Radiated Emissions Test Results

Test Notes:

- Power 32, Antenna 1
- Graphical data is provided for informational purposes only. Final levels are provided in tabular format.
- A duty cycle correction factor corresponding to $20 \cdot \log(6.976/100) = -23.13$ dB was applied to the peak values for the average levels related to the fundamental. The other average levels were measured directly using a spectrum analyzer.

**Table 2.7.8-6– Radiated Emissions Test Results**

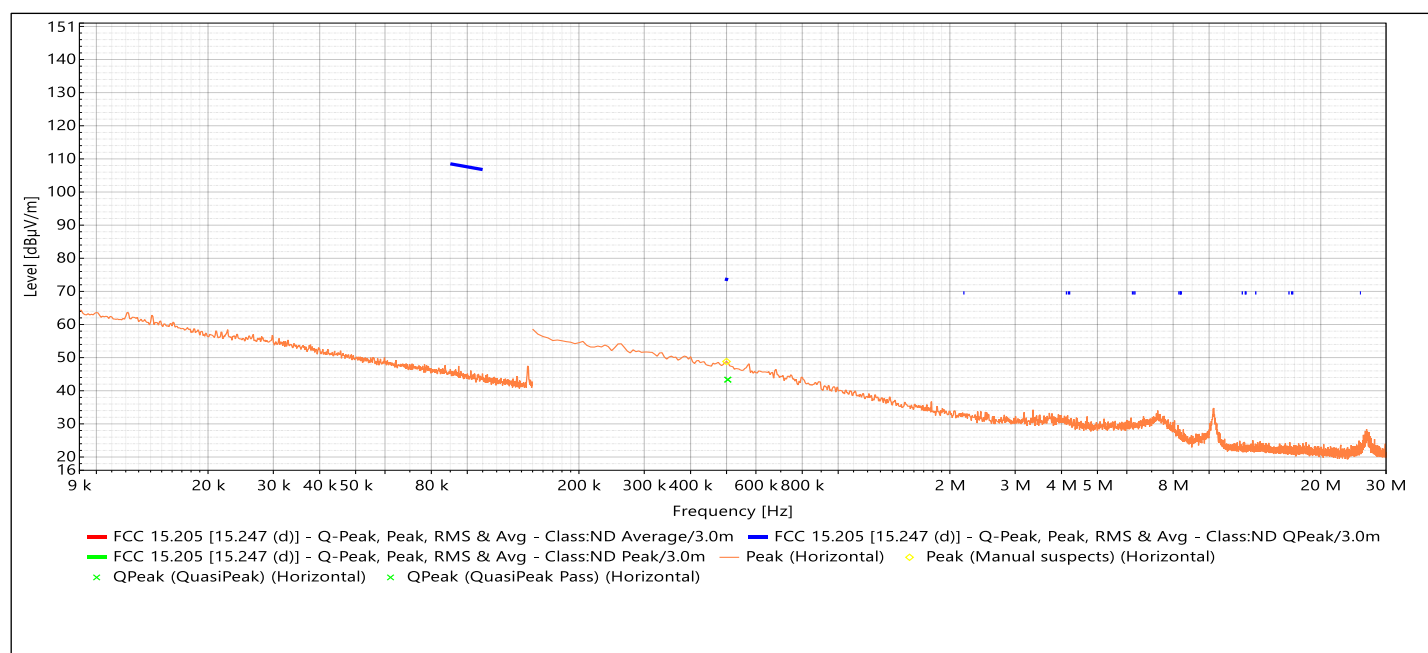
Frequency (MHz)	Peak Level (dBuV/m)	Peak Limit (dBuV/m)	Peak Margin (dB)	Average Level (dBuV/m)	Average Limit (dBuV/m)	Average Margin (dB)	Azimuth (°)	Height (m)	Polarity	Result
19235.803	55.58	73.98	-18.40	32.45	53.98	-21.53	144.00	1.95	Vertical	Pass
21234.799	49.49	73.98	-24.49	36.70	53.98	-17.28	141.00	1.75	Vertical	Pass
39651.832	53.34	73.98	-20.64	40.73	53.98	-13.25	287.00	2.50	Vertical	Pass
19235.799	53.91	73.98	-20.07	30.78	53.98	-23.20	150.00	3.42	Horizontal	Pass
39655.764	53.59	73.98	-20.39	40.57	53.98	-13.41	174.00	2.50	Horizontal	Pass



Spurious - 9kHz-30MHz - Channel mid 18 - 2440 MHz - Horizontal Co-Planar

Frequency Range	Antenna Distance	Antenna Polarization	RBW	Step Size	Sweep Time
9 kHz - 150 kHz	3m	Horizontal	200 Hz	1411 Pts	5 ms/MHz
150 kHz - 30 MHz	3m	Horizontal	9 kHz	5971 Pts	5 ms/MHz

Test Date	Test Area	Tested By	Temperature	Humidity	Pressure
6/15/2026	3mSAC	Rafael Aguiar Cota	24.6 °C	30 %	974 mBar



Technology	Frequency	Channel	Mode	EUT Orientation	Limit	Test Results
RF6	2440 MHz	18	TX	Y-axis	FCC 15.205 [15.247 (d)] - Q-Peak, Peak, & Avg	Pass

Figure 2.7.8-7 – Radiated Emissions Test Results

Test Notes:

- Antenna 1 - Horizontal Co-Planar
- Graphical data is provided for informational purposes only. Final levels are provided in tabular format.

Table 2.7.8-7– Radiated Emissions Test Results

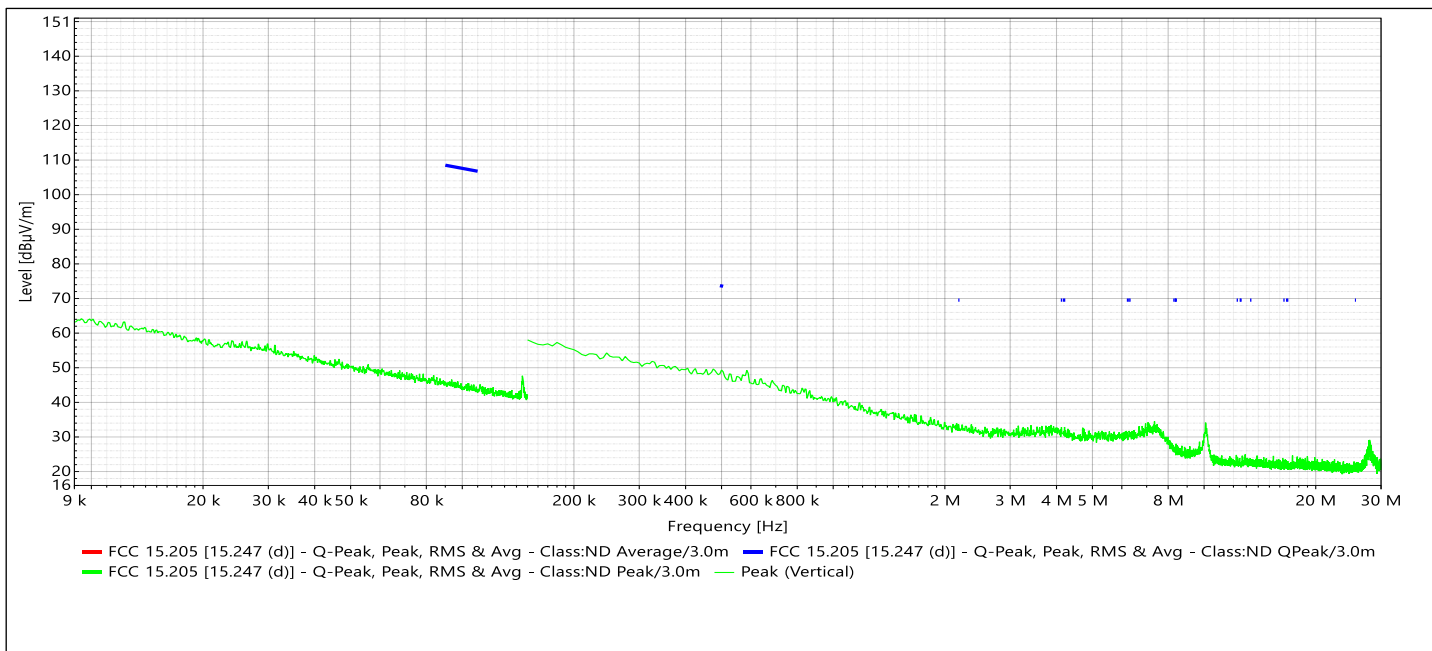
Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (°)	Height (m)	Polarity	Result
0.504	43.36	73.54	-30.18	13.00	1.00	Horizontal	Pass



Spurious - 9kHz-30MHz -Channel Mid 18 - 2440 MHz - Vertical Co-Axial

Frequency Range	Antenna Distance	Antenna Polarization	RBW	Step Size	Sweep Time
9 kHz - 150 kHz	3m	Vertical	200 Hz	1411 Pts	5 ms/MHz
150 kHz - 30 MHz	3m	Vertical	9 kHz	5971 Pts	5 ms/MHz

Test Date	Test Area	Tested By	Temperature	Humidity	Pressure
6/16/2026	3mSAC	Rafael Aguiar Cota	27 °C	28 %	970 mBar



Technology	Frequency	Channel	Mode	EUT Orientation	Limit	Test Results
RF6	2440 MHz	18	TX	Y-axis	FCC 15.205 [15.247 (d)] - Q-Peak, Peak, & Avg	Pass

Figure 2.7.8-8 – Radiated Emissions Test Results

Test Notes:

- Antenna 1 - Vertical Co-Axial
- Graphical data is provided for informational purposes only. Final levels are provided in tabular format.

Table 2.7.8-8– Radiated Emissions Test Results

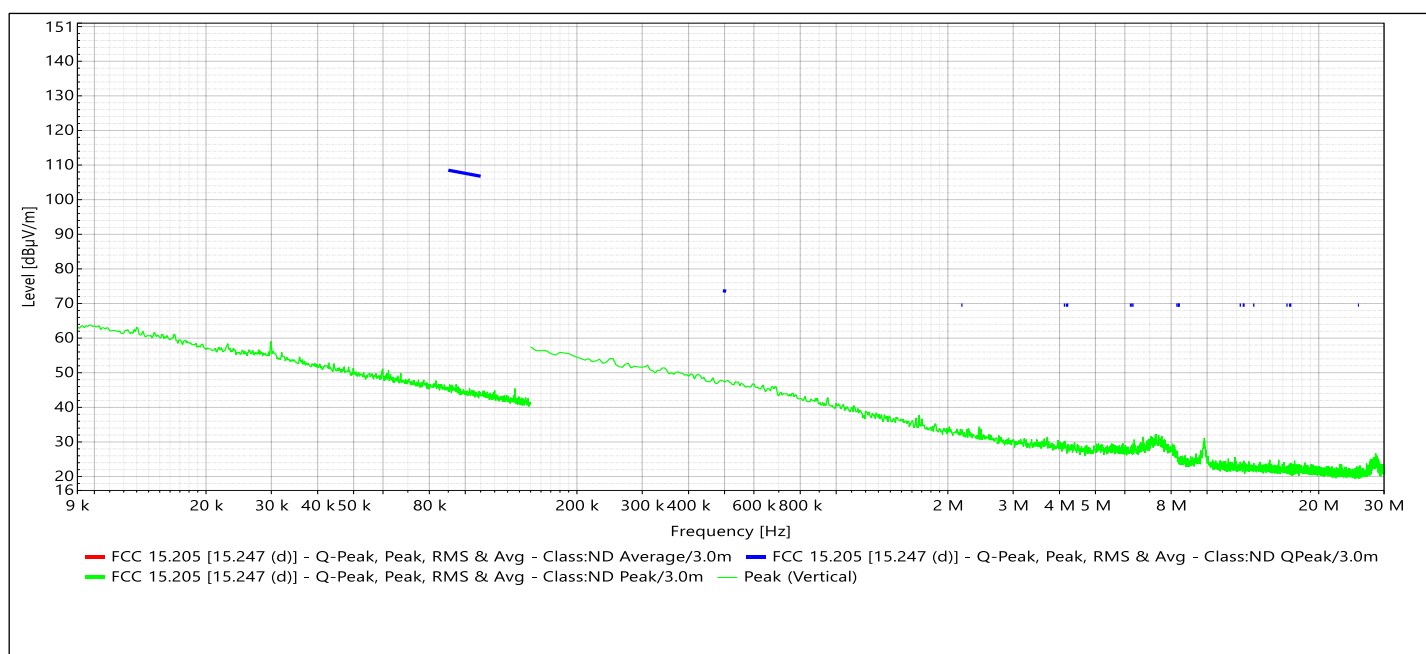
Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (°)	Height (m)	Polarity	Result
0.499	43.51	73.62	-30.12	241.00	1.00	Vertical	Pass



Spurious - 9kHz-30MHz -Channel Mid 18 - 2440 MHz - Vertical Co-Planar

Frequency Range	Antenna Distance	Antenna Polarization	RBW	Step Size	Sweep Time
9 kHz - 150 kHz	3m	Vertical	200 Hz	1411 Pts	5 ms/MHz
150 kHz - 30 MHz	3m	Vertical	9 kHz	5971 Pts	5 ms/MHz

Test Date	Test Area	Tested By	Temperature	Humidity	Pressure
6/16/2026	3mSAC	Rafael Aguiar Cota	24 °C	28 %	970 mBar



Technology	Frequency	Channel	Mode	EUT Orientation	Limit	Test Results
RF6	2440 MHz	18	TX	Y-axis	FCC 15.205 [15.247 (d)] - Q-Peak, Peak, & Avg	Pass

Figure 2.7.8-9 – Radiated Emissions Test Results

Test Notes:

- Antenna 1 - Vertical Co-Planar
- Graphical data is provided for informational purposes only. Final levels are provided in tabular format.

Table 2.7.8-9– Radiated Emissions Test Results

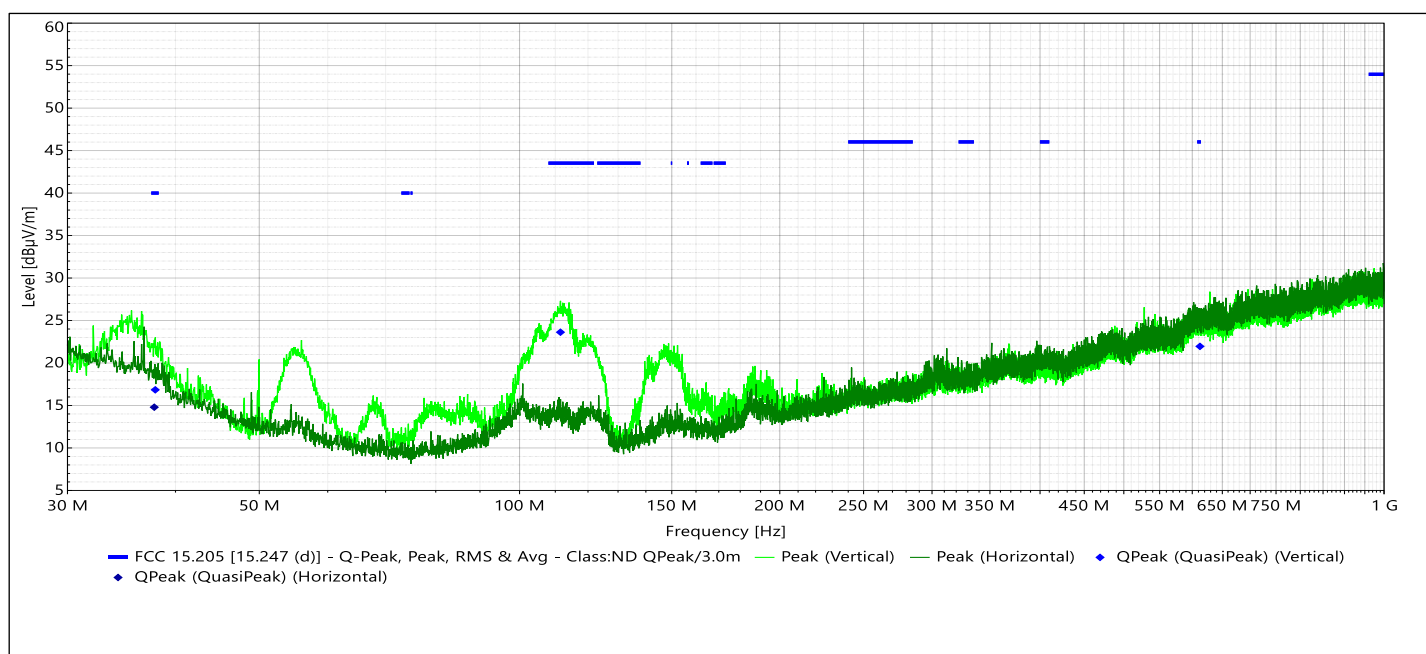
Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (°)	Height (m)	Polarity	Result
0.496	43.60	73.71	-30.11	48.00	1.00	Vertical	Pass



Spurious Emissions 30M-1GHz - Channel 18 - 2440 MHz

Frequency Range	Antenna Distance	Antenna Polarization	RBW	Step Size	Sweep Time
30 MHz - 1 GHz	3m	Vertical	120 kHz	20001 Pts	Auto
30 MHz - 1 GHz	3m	Horizontal	120 kHz	20001 Pts	Auto

Test Date	Test Area	Tested By	Temperature	Humidity	Pressure
6/12/2026	STS	Rafael Aguiar Cota	24.1 °C	35 %	976 mBar



Technology	Frequency	Channel	Mode	EUT Orientation	Limit	Test Results
2.4G RF6	2440 MHz	18	TX	Y-axis	FCC 15.205 [15.247 (d)] - Q-Peak, Peak, & Avg	Pass

Figure 2.7.8-10 – Radiated Emissions Test Results

Test Notes:

- Power 32, Antenna 1
- Graphical data is provided for informational purposes only. Final levels are provided in tabular format.

**Table 2.7.8-10– Radiated Emissions Test Results**

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (°)	Height (m)	Polarity	Result
37.901	16.84	40.00	-23.16	250.00	1.00	Vertical	Pass
111.516	23.62	43.52	-19.90	257.00	1.00	Vertical	Pass
612.437	21.96	46.02	-24.07	155.00	1.00	Vertical	Pass
37.801	14.79	40.00	-25.21	356.00	4.00	Horizontal	Pass



Spurious Emissions 1 - 18GHz - Channel Mid 18 - 2440 MHz

Frequency Range	Antenna Distance	Antenna Polarization	RBW	Step Size	Sweep Time
1 GHz - 18 GHz	3m	Vertical	1 MHz	34001 Pts	200 ms
1 GHz - 18 GHz	3m	Horizontal	1 MHz	34001 Pts	200 ms

Test Date	Test Area	Tested By	Temperature	Humidity	Pressure
6/10/2026	3mSAC	Duranta K. Barua	26.8 °C	39 %	968 mBar

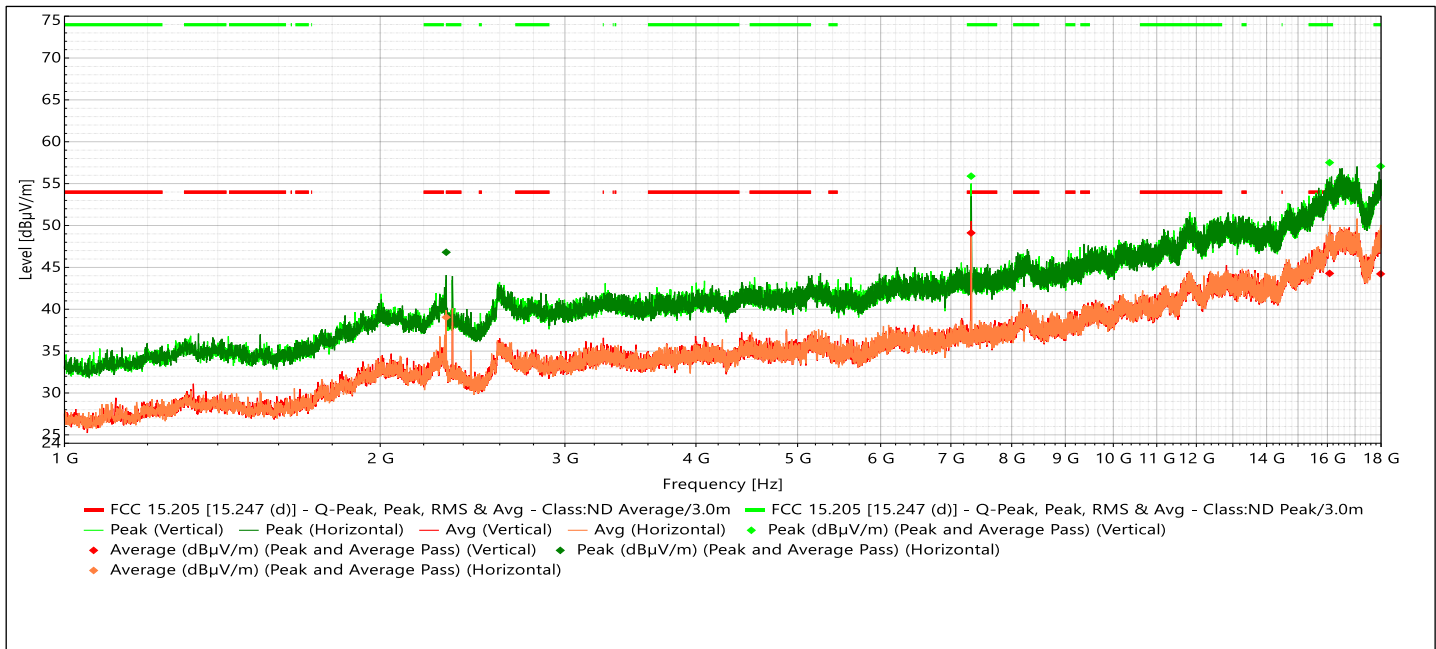


Figure 2.7.8-11 – Radiated Emissions Test Results

Test Notes:

- Power 32, Antenna 1
- Graphical data is provided for informational purposes only. Final levels are provided in tabular format. A duty cycle correction factor corresponding to $20 \cdot \log(6.976/100) = -23.13$ dB was applied to the peak values for the average levels related to the fundamental. The other average levels were measured directly using a spectrum analyzer.

**Table 2.7.8-11– Radiated Emissions Test Results**

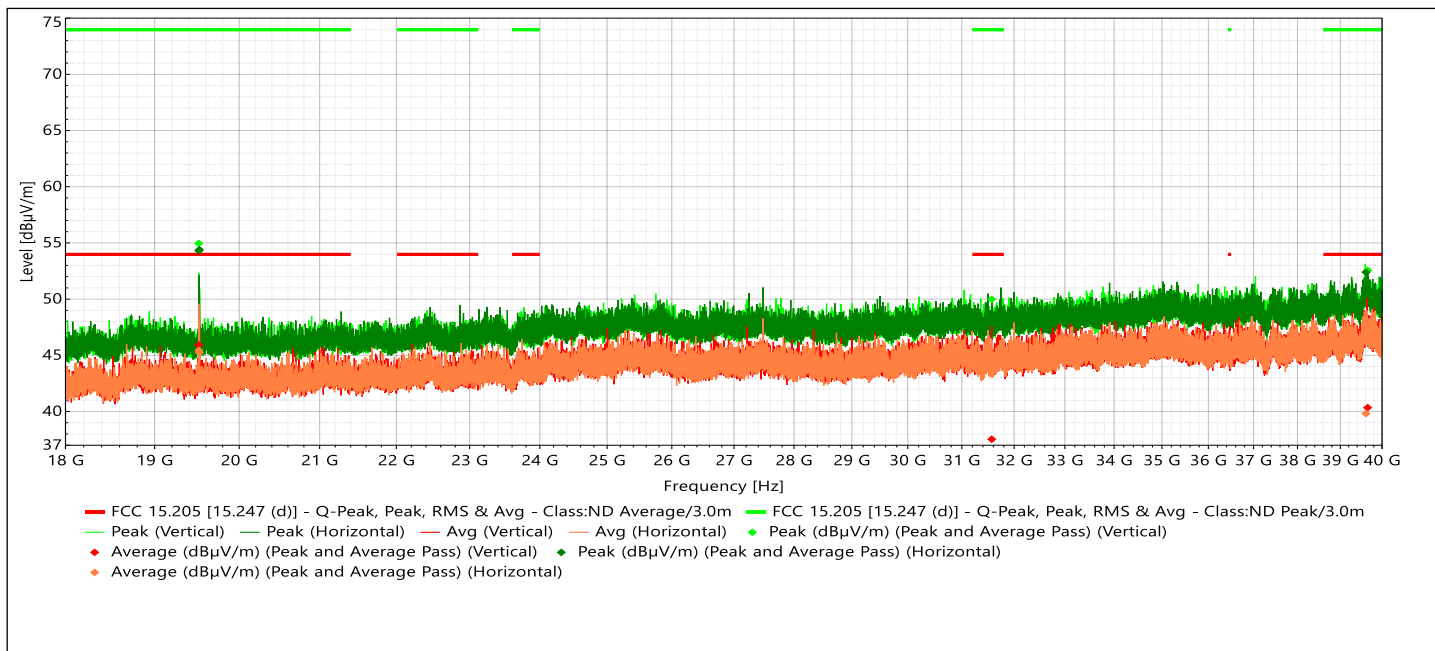
Frequency (MHz)	Peak Level (dBuV/m)	Peak Limit (dBuV/m)	Peak Margin (dB)	Average Level (dBuV/m)	Average Limit (dBuV/m)	Average Margin (dB)	Azimuth (°)	Height (m)	Polarity	Result
7318.361	55.90	73.98	-18.08	32.77	53.98	-21.21	140.00	1.04	Vertical	Pass
16076.716	57.51	73.98	-16.47	44.28	53.98	-9.70	192.00	1.00	Vertical	Pass
17983.043	57.08	73.98	-16.90	44.22	53.98	-9.76	280.00	1.00	Vertical	Pass
2311.884	46.81	73.98	-27.17	39.04	53.98	-14.94	167.00	2.56	Horizontal	Pass



Spurious Emissions 18 - 40GHz - Channel mid 18 - 2440 MHz

Frequency Range	Antenna Distance	Antenna Polarization	RBW	Step Size	Sweep Time
18 GHz - 40 GHz	3m	Vertical	1 MHz	44001 Pts	Auto
18 GHz - 40 GHz	3m	Horizontal	1 MHz	44001 Pts	Auto

Test Date	Test Area	Tested By	Temperature	Humidity	Pressure
6/11/2026	3mSAC	Rafael Aguiar Cota	24.5 °C	34 %	974 mBar



Technology	Frequency	Channel	Mode	EUT Orientation	Limit	Test Results
RF6	2440 MHz	18	TX	Y-axis	FCC 15.205 [15.247 (d)] - Q-Peak, Peak, & Avg	Pass

Figure 2.7.8-12 – Radiated Emissions Test Results

Test Notes:

- Power 32, Antenna 1
- Graphical data is provided for informational purposes only. Final levels are provided in tabular format.
- A duty cycle correction factor corresponding to $20 \cdot \log(6.976/100) = -23.13$ dB was applied to the peak values for the average levels related to the fundamental. The other average levels were measured directly using a spectrum analyzer.

**Table 2.7.8-12– Radiated Emissions Test Results**

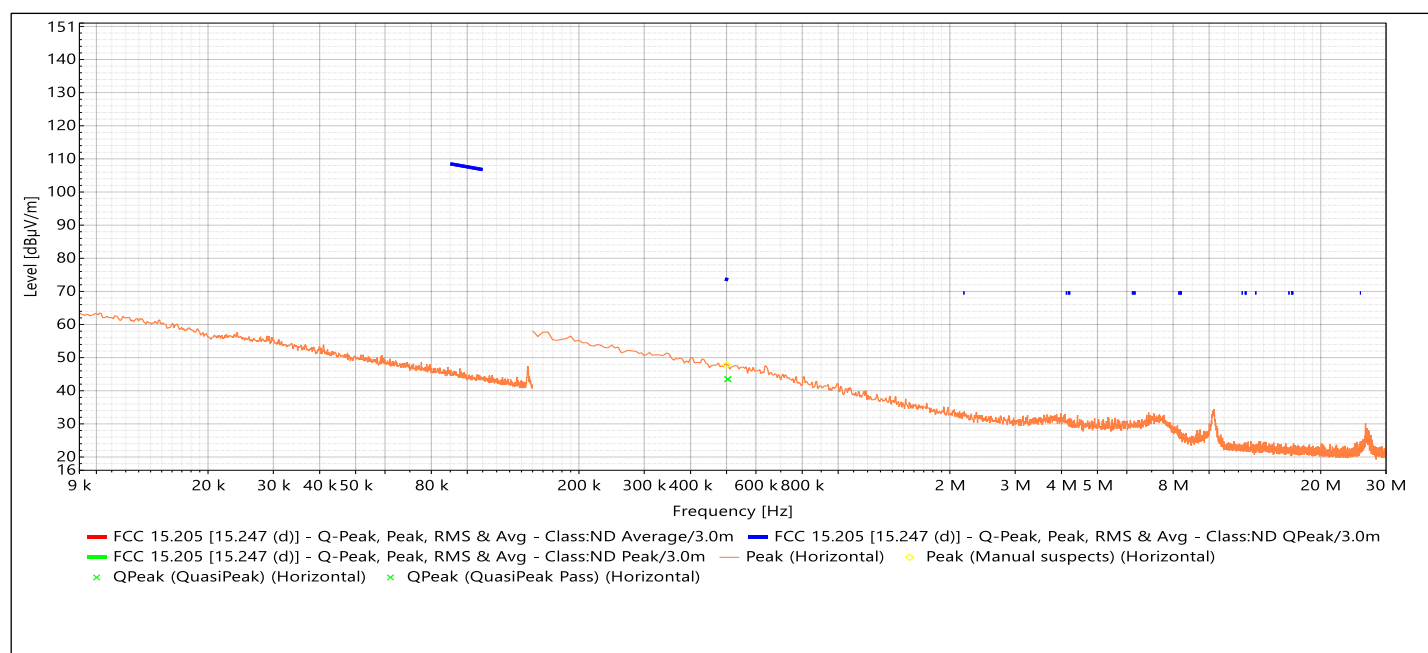
Frequency (MHz)	Peak Level (dBuV/m)	Peak Limit (dBuV/m)	Peak Margin (dB)	Average Level (dBuV/m)	Average Limit (dBuV/m)	Average Margin (dB)	Azimuth (°)	Height (m)	Polarity	Result
19515.793	54.96	73.98	-19.02	31.83	53.98	-22.15	144.00	2.50	Vertical	Pass
31567.622	49.98	73.98	-24.00	37.53	53.98	-16.45	191.00	1.00	Vertical	Pass
39652.484	52.56	73.98	-21.42	40.35	53.98	-13.63	199.00	1.00	Vertical	Pass
19515.794	54.30	73.98	-19.68	31.17	53.98	-22.81	153.00	3.80	Horizontal	Pass
19523.796	54.40	73.98	-19.58	31.27	53.98	-22.71	153.00	3.77	Horizontal	Pass
39611.367	52.39	73.98	-21.59	39.82	53.98	-14.16	3.00	2.50	Horizontal	Pass



Spurious - 9kHz-30MHz - Channel High 25 - 2475 MHz - Horizontal Co-Planar

Frequency Range	Antenna Distance	Antenna Polarization	RBW	Step Size	Sweep Time
9 kHz - 150 kHz	3m	Horizontal	200 Hz	1411 Pts	5 ms/MHz
150 kHz - 30 MHz	3m	Horizontal	9 kHz	5971 Pts	5 ms/MHz

Test Date	Test Area	Tested By	Temperature	Humidity	Pressure
6/15/2026	3mSAC	Rafael Aguiar Cota	24.6 °C	30 %	974 mBar



Technology	Frequency	Channel	Mode	EUT Orientation	Limit	Test Results
RF6	2475 MHz	25	TX	Y-axis	FCC 15.205 [15.247 (d)] - Q-Peak, Peak, & Avg	Pass

Figure 2.7.8-13 – Radiated Emissions Test Results

Test Notes:

- Antenna 1 - Horizontal Co-Planar
- Graphical data is provided for informational purposes only. Final levels are provided in tabular format.

Table 2.7.8-13– Radiated Emissions Test Results

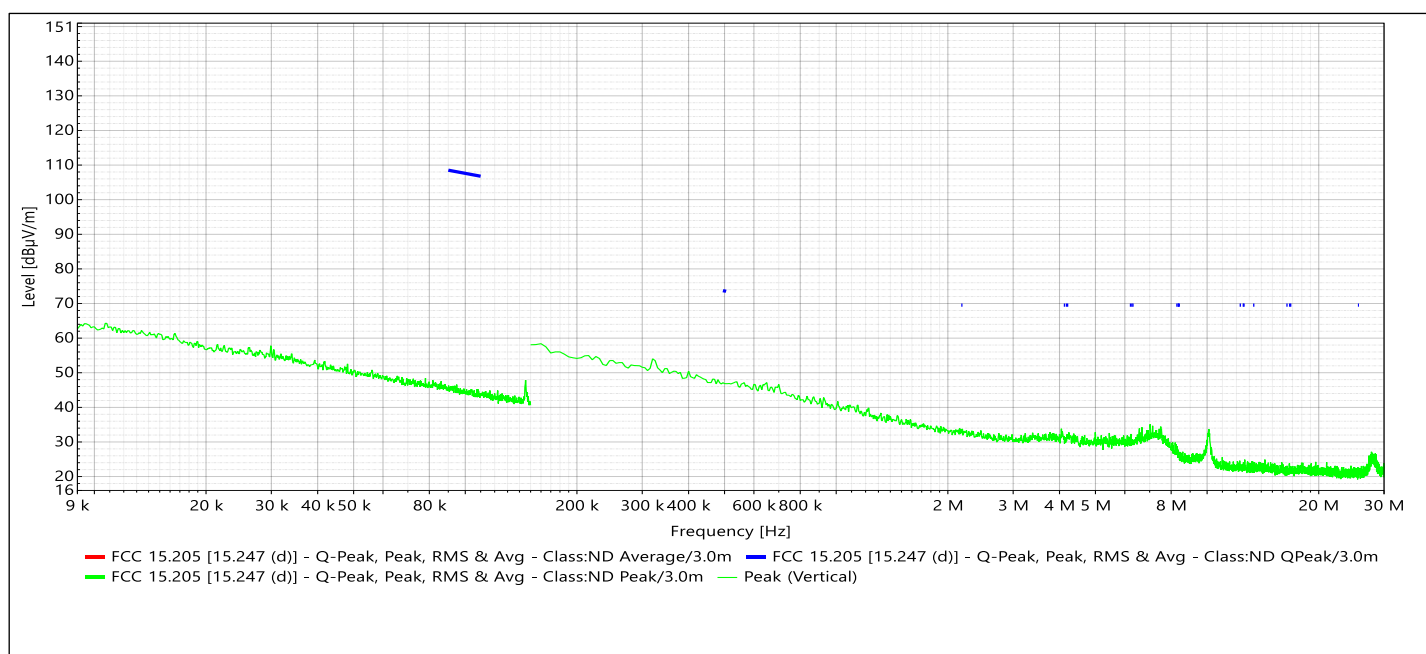
Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (°)	Height (m)	Polarity	Result
0.504	43.50	73.54	-30.04	34.00	1.00	Horizontal	Pass



Spurious - 9kHz-30MHz -Channel High 25 - 2475 MHz - Vertical Co-Axial

Frequency Range	Antenna Distance	Antenna Polarization	RBW	Step Size	Sweep Time
9 kHz - 150 kHz	3m	Vertical	200 Hz	1411 Pts	5 ms/MHz
150 kHz - 30 MHz	3m	Vertical	9 kHz	5971 Pts	5 ms/MHz

Test Date	Test Area	Tested By	Temperature	Humidity	Pressure
6/16/2026	3mSAC	Rafael Aguiar Cota	24 °C	28 %	970 mBar



Technology	Frequency	Channel	Mode	EUT Orientation	Limit	Test Results
RF6	2475 MHz	25	TX	Y-axis	FCC 15.205 [15.247 (d)] - Q-Peak, Peak, & Avg	Pass

Figure 2.7.8-14 – Radiated Emissions Test Results

Test Notes:

- Antenna 1 - Vertical Co-Axial
- Graphical data is provided for informational purposes only. Final levels are provided in tabular format.

Table 2.7.8-14– Radiated Emissions Test Results

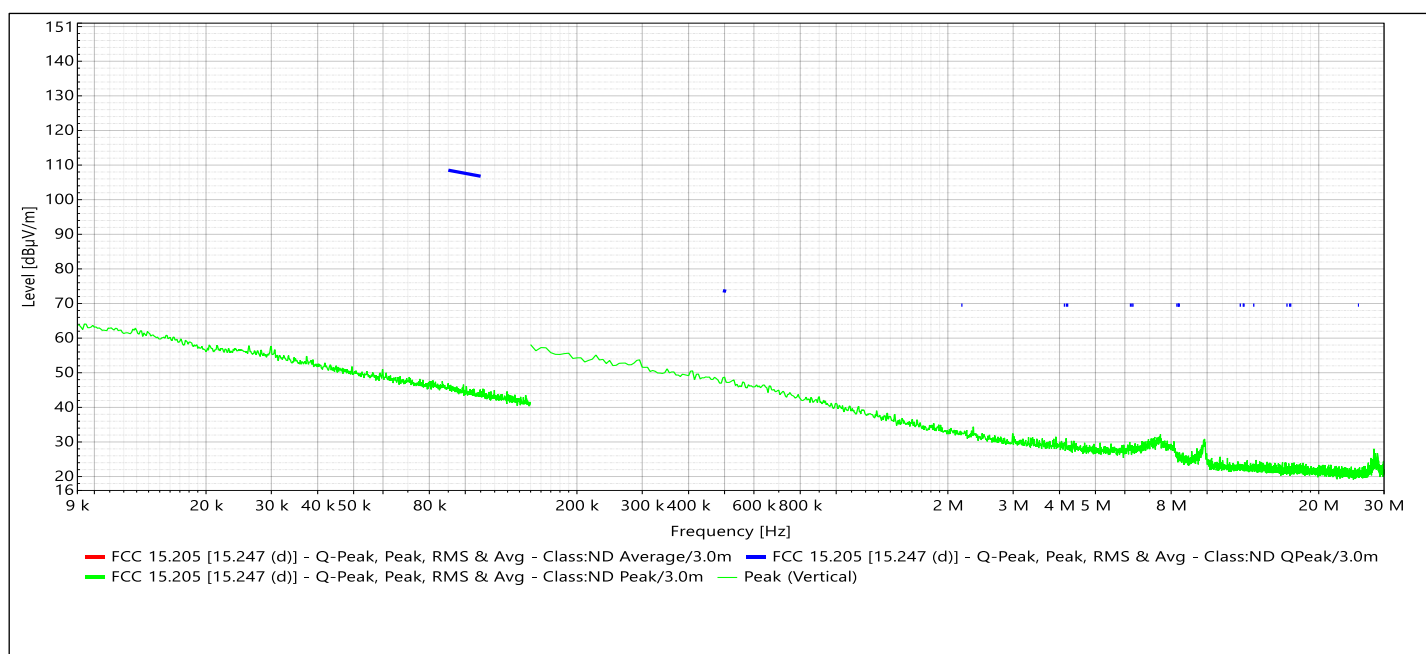
Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (°)	Height (m)	Polarity	Result
0.503	43.53	73.54	-30.01	105.00	1.00	Vertical	Pass



Spurious - 9kHz-30MHz -Channel High 25 - 2475 MHz - Vertical Co-Planar

Frequency Range	Antenna Distance	Antenna Polarization	RBW	Step Size	Sweep Time
9 kHz - 150 kHz	3m	Vertical	200 Hz	1411 Pts	5 ms/MHz
150 kHz - 30 MHz	3m	Vertical	9 kHz	5971 Pts	5 ms/MHz

Test Date	Test Area	Tested By	Temperature	Humidity	Pressure
6/16/2026	3mSAC	Rafael Aguiar Cota	24 °C	28 %	970 mBar



Technology	Frequency	Channel	Mode	EUT Orientation	Limit	Test Results
RF6	2475 MHz	25	TX	Y-axis	FCC 15.205 [15.247 (d)] - Q-Peak, Peak, & Avg	Pass

Figure 2.7.8-15 – Radiated Emissions Test Results

Test Notes:

- Antenna 1 - Vertical Co-Planar
- Graphical data is provided for informational purposes only. Final levels are provided in tabular format.

Table 2.7.8-15– Radiated Emissions Test Results

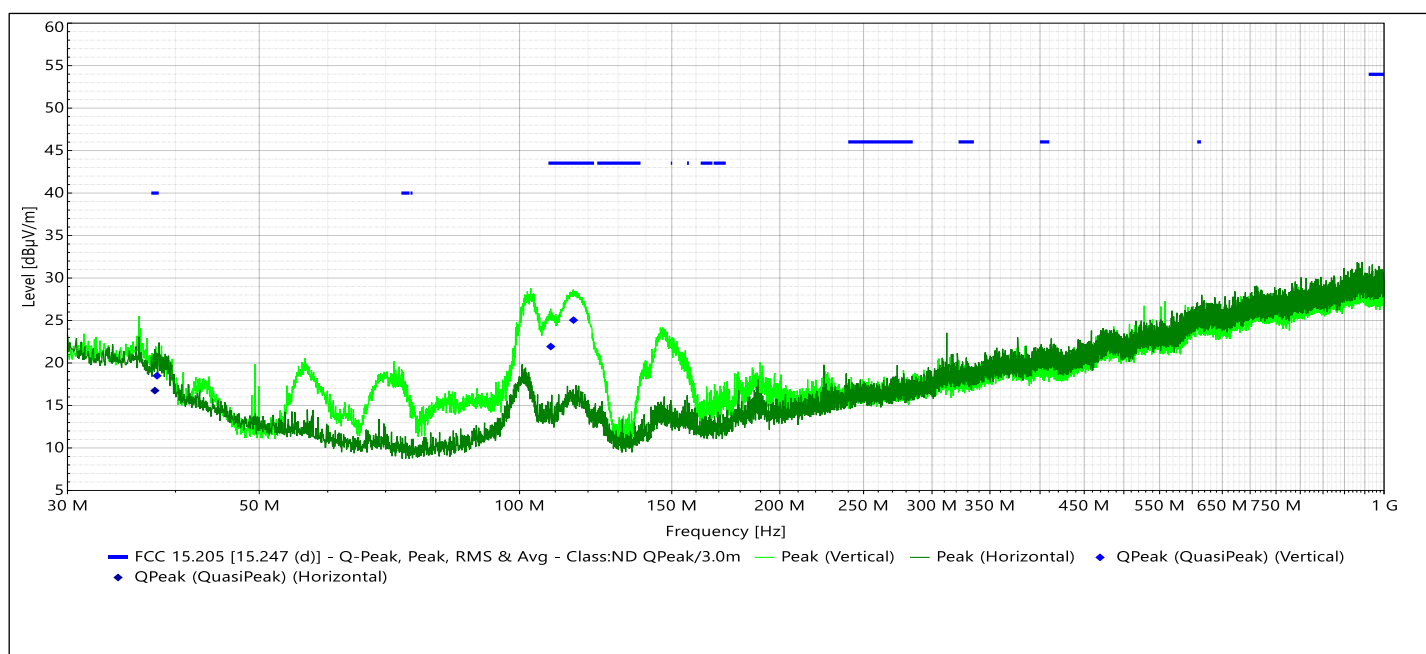
Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (°)	Height (m)	Polarity	Result
0.506	43.59	73.54	-29.95	319.00	1.00	Vertical	Pass



Spurious Emissions 30M-1GHz - Channel 25 - 2475 MHz

Frequency Range	Antenna Distance	Antenna Polarization	RBW	Step Size	Sweep Time
30 MHz - 1 GHz	3m	Vertical	120 kHz	20001 Pts	Auto
30 MHz - 1 GHz	3m	Horizontal	120 kHz	20001 Pts	Auto

Test Date	Test Area	Tested By	Temperature	Humidity	Pressure
6/13/2026	STS	Rafael Aguiar Cota	24.1 °C	35 %	976 mBar



Technology	Frequency	Channel	Mode	EUT Orientation	Limit	Test Results
2.4G RF6	2475 MHz	25	TX	Y-axis	FCC 15.205 [15.247 (d)] - Q-Peak, Peak, & Avg	Pass

Figure 2.7.8-16 – Radiated Emissions Test Results

Test Notes:

- Power 32, Antenna 1
- Graphical data is provided for informational purposes only. Final levels are provided in tabular format.

**Table 2.7.8-16– Radiated Emissions Test Results**

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (°)	Height (m)	Polarity	Result
38.084	18.50	40.00	-21.50	256.00	1.00	Vertical	Pass
108.676	21.93	43.52	-21.59	327.00	1.00	Vertical	Pass
115.462	25.04	43.52	-18.48	333.00	1.00	Vertical	Pass
37.865	16.75	40.00	-23.25	0.00	3.93	Horizontal	Pass



Spurious Emissions 1 - 18GHz - Channel High 25 - 2475 MHz

Frequency Range	Antenna Distance	Antenna Polarization	RBW	Step Size	Sweep Time
1 GHz - 18 GHz	3m	Vertical	1 MHz	34001 Pts	200 ms
1 GHz - 18 GHz	3m	Horizontal	1 MHz	34001 Pts	200 ms

Test Date	Test Area	Tested By	Temperature	Humidity	Pressure
6/10/2026	3mSAC	Duranta K. Barua	26.7 °C	39 %	967 mBar

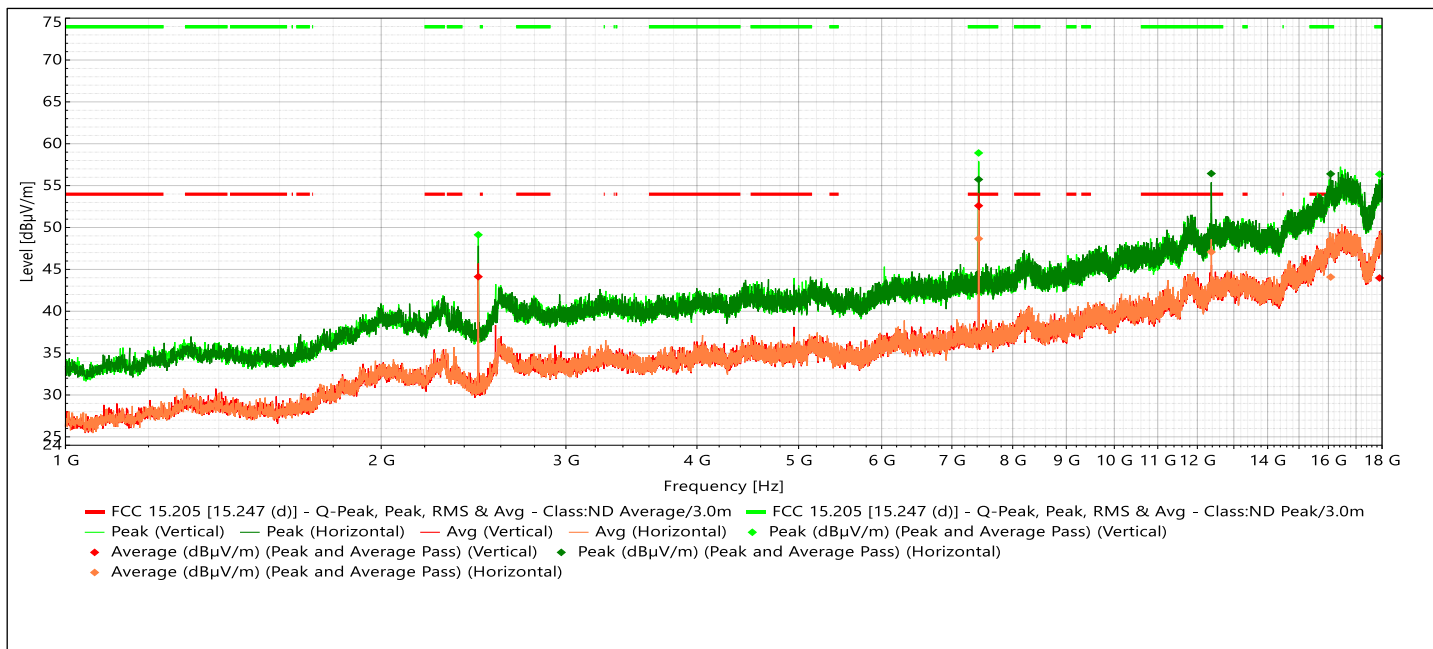


Figure 2.7.8-17 – Radiated Emissions Test Results

Test Notes:

- Power 32, Antenna 1
- Graphical data is provided for informational purposes only. Final levels are provided in tabular format.
- A duty cycle correction factor corresponding to $20 \cdot \log(6.976/100) = -23.13$ dB was applied to the peak values for the average levels related to the fundamental. The other average levels were measured directly using a spectrum analyzer.

**Table 2.7.8-17– Radiated Emissions Test Results**

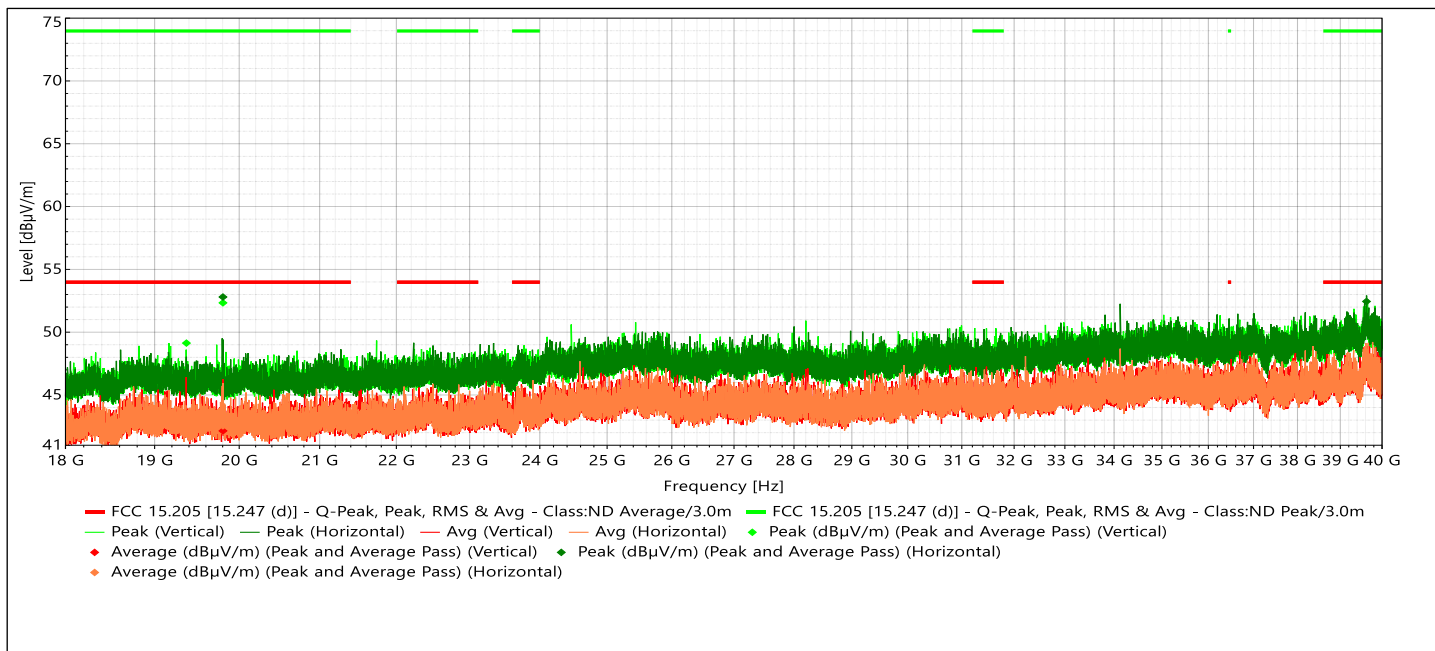
Frequency (MHz)	Peak Level (dBuV/m)	Peak Limit (dBuV/m)	Peak Margin (dB)	Average Level (dBuV/m)	Average Limit (dBuV/m)	Average Margin (dB)	Azimuth (°)	Height (m)	Polarity	Result
2474.882	49.13	----	----	26.00	----	----	74.00	2.50	Vertical	Pass
7423.480	58.90	73.98	-15.08	35.77	53.98	-18.21	140.00	1.00	Vertical	Pass
17900.282	56.36	73.98	-17.62	43.97	53.98	-10.01	127.00	1.00	Vertical	Pass
7423.480	55.74	73.98	-18.24	32.61	53.98	-21.37	240.00	1.00	Horizontal	Pass
12372.427	56.44	73.98	-17.54	33.31	53.98	-20.67	242.00	2.50	Horizontal	Pass
16080.189	56.40	73.98	-17.58	44.08	53.98	-9.90	103.00	1.00	Horizontal	Pass



Spurious Emissions 18 - 40GHz - Channel High 25 - 2475 MHz

Frequency Range	Antenna Distance	Antenna Polarization	RBW	Step Size	Sweep Time
18 GHz - 40 GHz	3m	Vertical	1 MHz	44001 Pts	Auto
18 GHz - 40 GHz	3m	Horizontal	1 MHz	44001 Pts	Auto

Test Date	Test Area	Tested By	Temperature	Humidity	Pressure
6/11/2026	3mSAC	Rafael Aguiar Cota	24.5 °C	34 %	974 mBar



Technology	Frequency	Channel	Mode	EUT Orientation	Limit	Test Results
RF6	2475 MHz	25	TX	Y-axis	FCC 15.205 [15.247 (d)] - Q-Peak, Peak, & Avg	Pass

Figure 2.7.8-18 – Radiated Emissions Test Results

Test Notes:

- Power 32, Antenna 1
- Graphical data is provided for informational purposes only. Final levels are provided in tabular format.
- A duty cycle correction factor corresponding to $20 \cdot \log(6.976/100) = -23.13$ dB was applied to the peak values for the average levels related to the fundamental. The other average levels were measured directly using a spectrum analyzer.

**Table 2.7.8-18– Radiated Emissions Test Results**

Frequency (MHz)	Peak Level (dBuV/m)	Peak Limit (dBuV/m)	Peak Margin (dB)	Average Level (dBuV/m)	Average Limit (dBuV/m)	Average Margin (dB)	Azimuth (°)	Height (m)	Polarity	Result
19369.755	49.13	73.98	-24.85	36.05	53.98	-17.93	75.00	3.39	Vertical	Pass
19803.790	52.33	73.98	-21.64	29.20	53.98	-24.78	15.00	4.00	Vertical	Pass
19803.788	52.80	73.98	-21.18	29.67	53.98	-24.31	150.00	4.00	Horizontal	Pass
39624.030	52.45	73.98	-21.53	39.95	53.98	-14.03	174.00	2.50	Horizontal	Pass