

RADIO REPORT FCC 47 CFR Part 15E Unlicensed National Information Infrastructure Devices in the 5 GHz Bands	
Report Reference No	G0M-2601-3542-TFC407WF01-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	  DAkkS - Deutsche Akkreditierungsstelle D-PL-12092-01-00 DAkkS - Registration number : D-PL-12092-01-00 FCC Filed Test Laboratory, Reg.-No.: 96970
Applicant	Hamina Wireless Oy
Address	Mannerheimintie 4 00100 Helsinki Finland
Test Specification	47 CFR Part 15E
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	Hamina Clip
Model(s)	Clip
Brand Name(s)	Hamina Clip
Hardware Version(s)	PTO_02, HWID 0203
Software Version(s)	20251110160312
Contains FCC ID	XPYJODYW377; 2BUVUBE200D2
Test Result	PASSED

Possible test case verdicts:		
Required by standard but not tested	N/T	
Not required by standard	N/R	
Not applicable to EUT	N/A	
Test object does meet the requirement	P(PASS)	
Test object does not meet the requirement	F(FAIL)	
Testing:		
Test Lab Temperature	20 - 23 °C	
Test Lab Humidity	32 – 38 %	
Date of receipt of test item	See test sample identification table on page 6	
Report:		
Compiled by	Azamat Ibraimov	
Tested by (+ signature) (Responsible for Test)	Azamat Ibraimov	 Digitally signed by Azamat Ibraimov Date: 2026.04.10 10:40:35 +02'00'
Approved by (+ signature) (Senior Radio Expert)	Radwan Jaafar	 Digitally signed by Radwan Jafaar Date: 2026.04.10 11:08:54 +02'00'
Date of Issue	2026-04-10	
Total number of pages	50	
General Remarks:		
1. The test results presented in this report relate only to the object tested, as it was provided by the customer, and under the test conditions described in this report. The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report. 2. The relevant information are provided by customers in this test report. According to the correctness, appropriateness or completeness of the information provided by the customer, if there is any doubt or error in the information which affects the validity of the test results, the laboratory does not take the responsibility. 3. The issuing testing laboratory tested the equipment mentioned on first page in accordance with the requirements set forth in the test specifications mentioned on first page. All indications of Pass/Fail in this report are opinions expressed by Eurofins Product Service GmbH based on interpretations and/or observations of test results. When the test result on first page shows the status "PASSED", the equipment tested is capable of demonstrating compliance with requirements as documented in this test report. 4. This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory.		
Additional Comments:		
None		

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2026-04-10	Initial Release	--

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
BPSK	Binary Phase Shift Keying
EIRP	Equivalent Isotropic Radiated Power
EUT	Equipment Under Test
FCC	Federal Communications Commission
HT	High Throughput
IEEE 802.11	MAC and PHY Layer for WiFi
OFDM	Orthogonal Frequency Division Multiplexing
QAM	Quadrature Amplitude Modulation
QPSK	Quadrature Phase Shift Keying
RBW	Resolution bandwidth
RMS	Root mean square
TPC	Transmit Power Control
VBW	Video bandwidth
VHT	Very High Throughput

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1 Equipment (Test Item) Under Test

Description	Hamina Clip			
Model	Clip			
Brand Name(s)	Hamina Clip			
Sample Identification	EUT #	Sample-ID	Serial Number	Date of receipt
	1	52817	PT5360020	2026-02-02
Hardware Version(s)	PTO_02, HWID 0203			
Software Version(s)	20251110160312			
Contains FCC ID	XPYJODYW377; 2BUVUBE200D2			
Equipment type	End Product			
Device type	Client			
Radio type	Transceiver			
Assigned frequency bands	5925 - 6425 MHz 6425 - 6525 MHz 6525 - 6885 MHz 6885 - 7125 MHz			
Radio technology	IEEE 802.11ax/be20 IEEE 802.11ax/be40 IEEE 802.11ax/be80 IEEE 802.11ax/be 160 IEEE 802.11be320			
Modulation	BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM			
Emission designators	G7D, D7D			
Number of antenna ports	2			
Radio Module	Type	BT, WLAN 2.4 GHz, 5 GHz, 6 GHz		
	Model	BE200.D2W		
	Manufacturer	Intel		
	HW Version	4		
	SW Version	0.182.4.1		
	FCC-ID	PD9BE200D2		
Antenna 1	Type	Integrated		
	Model	FXP840		
	Manufacturer	Taoglas		
	Gain	U-NII-5 – 2.4 dBi U-NII-6 – 0.6 dBi U-NII-7 – 0.7 dBi U-NII-8 – 1.4 dBi		
Antenna 2	Type	Integrated		
	Model	FXP840		
	Manufacturer	Taoglas		
	Gain	U-NII-5 – 3.8 dBi U-NII-6 – 1.7 dBi U-NII-7 – 1.6 dBi U-NII-8 – 0.0 dBi		
Supply Voltage	V _{NOM}	5 V via internal lithium battery		
	V _{MIN}	5 V		
	V _{MAX}	15 V		
Operating Temperature	T _{NOM}	20°C		
	T _{MIN}	0°C		
	T _{MAX}	40°C		
Battery supply	Yes			
Dedicated AC/DC-Adaptor	None			

Test Report No.: G0M-2601-3542-TFC407WF01-V01

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Manufacturer	Hamina Wireless Oy Mannerheimintie 4 00100 Helsinki Finland
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1.1 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE	Laptop	Lenovo	L470	For test mode activation
SFT	Diagnostic and Regulatory Testing Utility tool	Intel	DRTU	For test mode activation
CBL	USB-C	--	--	For test mode activation and charging
AE	AC/DC Adapter	Apple	A2347	For charging
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
CBL	Connecting Cable			
SFT	Software			
Comment: --				

1.2 EUT Configuration

Configuration #	Description
1	EUT is powered by AC/DC adapter.
Comment: --	

1.3 Test Modes

Mode	Description
IEEE 802.11ax/be40	Mode = Transmit Bandwidth = 40 MHz Duty cycle = 99% (Maximum test software setting) Power setting = 24 (Maximum test software setting) Data rate = MCS 0 Antenna = Chain A
IEEE 802.11ax/be160	Mode = Transmit Bandwidth = 160 MHz Duty cycle = 99% (Maximum test software setting) Power setting = 24 (Maximum test software setting) Data rate = MCS 0 Antenna = Chain A+B
IEEE 802.11ax/be20	Mode = Transmit Bandwidth = 20 MHz Duty cycle = 99% (Maximum test software setting) Power setting = 24 (Maximum test software setting) Data rate = MCS 0 Antenna = Chain B
IEEE 802.11ax/be40	Mode = Transmit Bandwidth = 40 MHz Duty cycle = 99% (Maximum test software setting) Power setting = 24 (Maximum test software setting) Data rate = MCS 0 Antenna = Chain A
Comment: The above settings are found as worst case during evaluation of the original modular test report 230526-09.TR20, issued on 2023-08-02 by Intel Corporation S.A.S – WRF Lab. Radiated spurious emission was evaluated to determine the worst case settings.	

1.4 Test Frequencies

Designator	Mode	Channel	Frequency [MHz]
F1	Tx	3	5965
F2	Tx	111	6505
F3	Tx	181	6855
F4	Tx	227	7085

1.5 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyzer in dB μ V. Any external preamplifiers used are taken into account through internal analyzer settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyzer. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

$$\text{Reading on Analyzer (dB}\mu\text{V)} + \text{A.F. (dB/m)} = \text{Net field strength (dB}\mu\text{V/m)}$$

Net:

This is the net field strength measurement (as shown above).

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Field strength limit:

This is the FCC Class B radiated emission limit (in units of dB μ V/m). The FCC limits are given in units of μ V/m. The following formula is used to convert the units of μ V/m to dB μ V/m:

$$\text{Field strength limit (dB}\mu\text{V/m)} = 20 \cdot \log (\mu\text{V/m})$$

Example only for radiated field strength:

$$\text{Reading} + \text{AF} = \text{Net Reading} \quad : \quad \text{Net reading} - \text{Field strength limit} = \text{Margin}$$

1.6 Measurement Uncertainties

Test case	Maximum measurement uncertainty
Occupied Bandwidth	1.3 %
6 dB Bandwidth	1.3 %
26 dB Bandwidth	1.3 %
Maximum output power	1.59 dB
Transmit power control	1.59 dB
Power spectral density	2.86 dB
Frequency stability	0.66 PPM
AC power line conducted emissions	3.82 dB
Transmitter radiated spurious emissions	5.95 dB

1.7 Normative References

References	
Designator	Reference
KDB 789033	KDB 789033 D02 v02r01
KDB 987594	987594 D02 v03
ANSI C63.10	ANSI C63.10-2020

2 Result Summary

FCC 47 CFR Part 15E				
Product Standard Reference	Requirement	Reference Method	Result	Remarks
FCC 15.407(a)	Occupied Bandwidth	KDB 987594 D KDB 789033 C.2	N/T	Note 1
FCC 15.407(a)	Maximum output power	KDB 987594 E KDB 789033 E	N/T	Note 1
FCC 15.407(a)	Power spectral density	KDB 987594 F KDB 789033 F	N/T	Note 1
FCC 15.207	AC power line conducted emissions	ANSI C63.10-2020 Section 6.2	PASS	--
FCC 15.407(b)	Undesirable emissions limits: out of band (conducted)	KDB 987594 G KDB 789033 G	N/T	Note 1
FCC 15.407(b)	Transmitter radiated emissions	KDB 987594 G KDB 789033 G	PASS	--
FCC 15.407(b)	In-Band Emissions (Mask)	KDB 987594 J	N/T	Note 1
FCC 15.407(d)	Contention based protocol	KDB 987594 I	N/T	Note 1
FCC 15.407(g)	Frequency stability	KDB 987594 A ANSI C63.10-2020 Section 6.8	N/T	Note 1
Note 1: The radio module is certified, testing was performed in accordance with the customer's test plan.				
Comment: The Decision Rule is applied on the basis of ETSI TR 102 273 and ETSI TR 100 028. These standards provide guidance on how to calculate and apply measurement uncertainty whilst providing maximum uncertainties allowance. In all cases due consideration will be given to ILAC-G8:09/2019. Where a result is considered conditional in respect of its proximity to the limit line, the customer would be made aware of situation so that they can make an informed decision on how to proceed.				

Possible Test Case Verdicts	
PASS	Test object does meet the requirements
FAIL	Test object does not meet the requirements
N/T	Required by standard but not tested
N/R	Not required by standard for the test object

3 Test Conditions and Results

3.1 Test Conditions and Results - AC powerline conducted emissions

3.1.1 Information

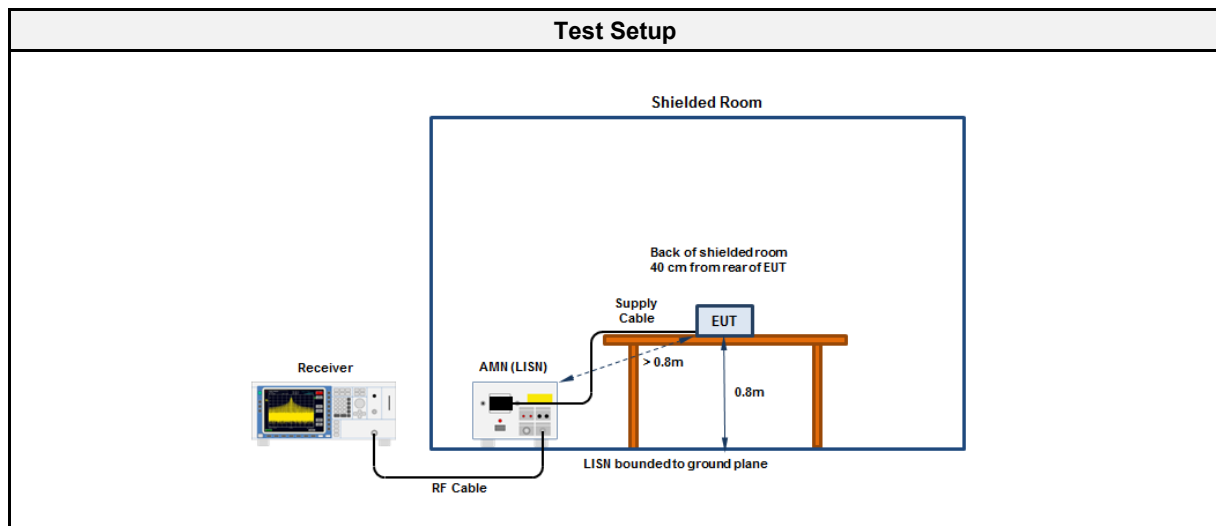
Test Information	
Reference	FCC 15.207
Measurement Method	ANSI C63.10 6.2
Operator	Azamat Ibraimov
Date	2026-03-30

3.1.2 Limits

Limits		
Frequency [MHz]	Quasi-Peak [dBμV]	Average [dBμV]
0.15 - 0.5	66 - 56*	56 - 46*
0.5 - 5	56	46
5 - 30	60	50

* Limit decreases linearly with the logarithm of the frequency

3.1.3 Setup



3.1.4 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	Raditeq B.V.	RadiMation	2024.2.5

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
EMI Test Receiver	R&S	ESU 26	EF00887	2025-08	2027-02
Pulse Limiter	R&S	ESH3-Z2	EF01222	2025-08	2027-08
LISN	Schwarzbeck	NSLK 8127 RC	EF01592	2024-07	2026-07

3.1.5 Procedure

Measurement of table top device
1. EUT set to test mode 2. The EUT is placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane. 3. The power cord that is normally supplied or recommended by the manufacturer is connected to the LISN. 4. The distance between the outer edge of the EUT and the LISN is set to 0.8 m. 5. The LISN measurement port is connected to a measurement receiver 6. Conducted emissions are measured. 7. The test data is recorded and shown on the next pages.

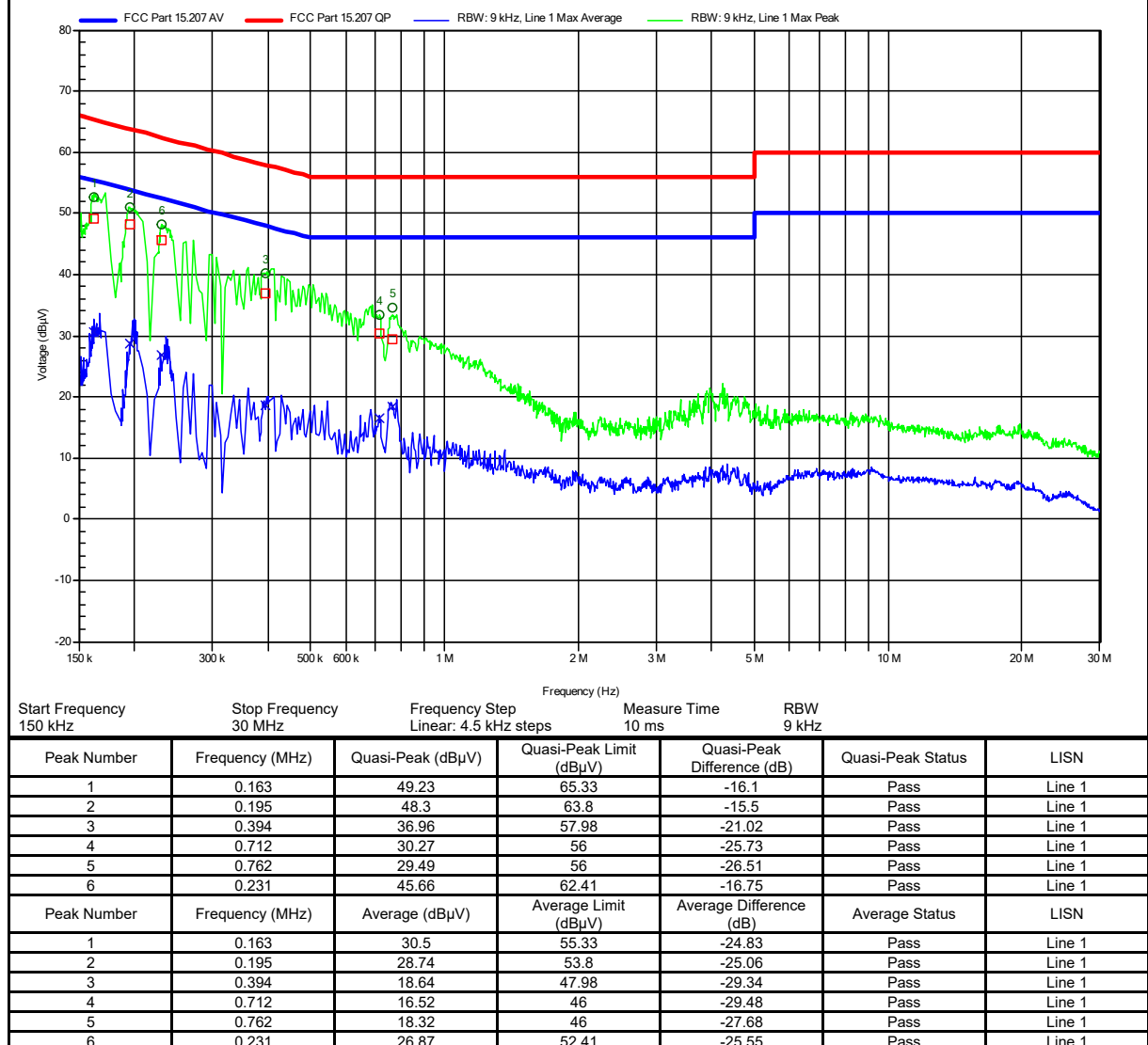
3.1.6 Results

Test Results					
Port	Coupling	Mode	EUT Configuration	Verdict	Remark
Power	AMN	Transmit	1	PASS	--
Comment: --					

3.1.7 Records

Conducted emissions at the mains power port according to 47 CFR Part 15.207	
Project Number:	G0M-2601-3542
Applicant:	Eurofins Electric & Electronics Finland Oy
Model Description:	Hamina Clip
Model:	Clip
Test Sample ID:	52817
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Ibraimov
Test Date & Time:	2026-03-30
Operating Conditions:	ambient temperature: 22 °Celsius power input: 120 V AC
AMN:	Schwarzbeck NSLK 8127 RC L
Operational Mode: DUT Configuration:	IEEE 802.11ax/be160, 6505 MHz 1
Applied to Port:	AC Mains

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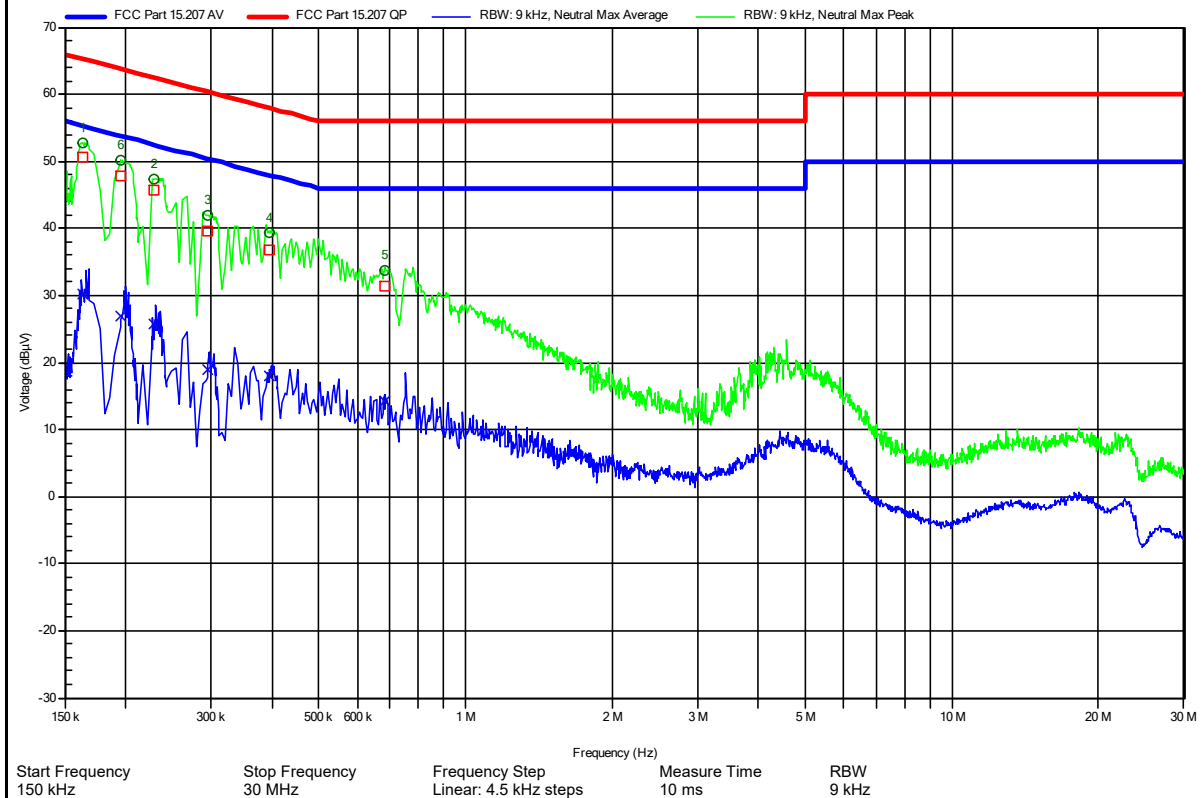
Test Report No.: G0M-2601-3542-TFC407WF01-V01

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Conducted emissions at the mains power port according to 47 CFR Part 15.207

Project Number:	G0M-2601-3542
Applicant:	Eurofins Electric & Electronics Finland Oy
Model Description:	Hamina Clip
Model:	Clip
Test Sample ID:	52817
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Ibraimov
Test Date & Time:	2026-03-30
Operating Conditions:	ambient temperature: 22 °Celsius power input: 120 V AC
AMN:	Schwarzbeck NSLK 8127 RC N
Operational Mode:	IEEE 802.11ax/be160, 6505 MHz
DUT Configuration:	1
Applied to Port:	AC Mains

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Peak Number	Frequency (MHz)	Quasi-Peak (dBµV)	Quasi-Peak Limit (dBµV)	Quasi-Peak Difference (dB)	Quasi-Peak Status	LISN
1	0.163	50.6	65.31	-14.71	Pass	Neutral
2	0.229	45.67	62.48	-16.81	Pass	Neutral
3	0.294	39.6	60.4	-20.79	Pass	Neutral
4	0.394	36.86	57.98	-21.12	Pass	Neutral
5	0.683	31.4	56	-24.6	Pass	Neutral
6	0.195	47.85	63.8	-15.95	Pass	Neutral
Peak Number	Frequency (MHz)	Average (dBµV)	Average Limit (dBµV)	Average Difference (dB)	Average Status	LISN
1	0.163	30.28	55.31	-25.03	Pass	Neutral
2	0.229	25.81	52.48	-26.67	Pass	Neutral
3	0.294	18.87	50.4	-31.53	Pass	Neutral
4	0.394	18.09	47.98	-29.89	Pass	Neutral
5	0.683	14.3	46	-31.7	Pass	Neutral
6	0.195	27	53.8	-26.8	Pass	Neutral

Test Report No.: G0M-2601-3542-TFC407WF01-V01

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

3.2 Test Conditions and Results - Transmitter radiated emissions

3.2.1 Information

Test Information	
Reference	FCC 15.407(b)
Measurement Method	KDB 789033 G
Operator	Azamat Ibraimov
Date	2026-03-27 - 2026-04-02

3.2.2 Limits

Limits - Restricted frequency bands above 30 MHz			
Frequency [MHz]	Detector	Field strength [$\mu\text{V}/\text{m}$]	Measurement distance [m]
30 - 88	Quasi-Peak	100	3
88 - 216	Quasi-Peak	150	3
216 - 960	Quasi-Peak	200	3
960 - 1000	Quasi-Peak	500	3
>1000	Average	500	3

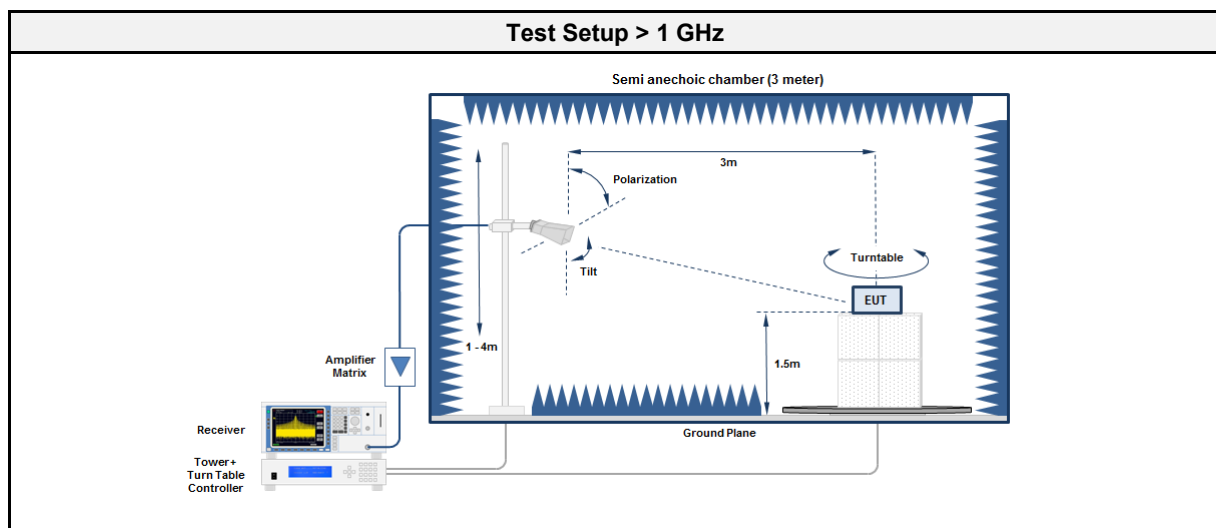
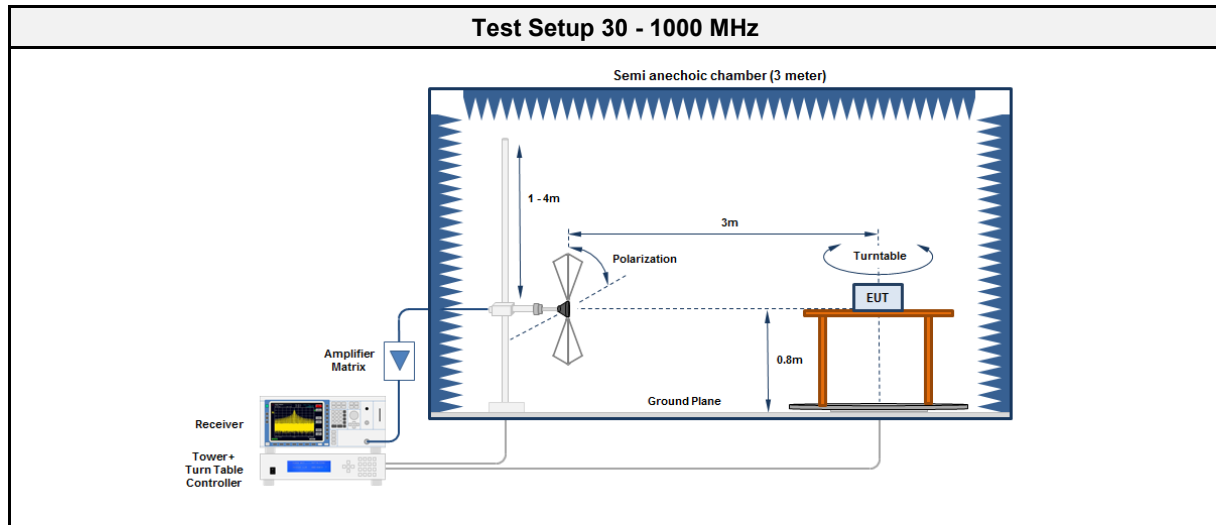
3.2.3 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	Raditeq B.V.	RadiMation	2024.2.5

Test Equipment 30 - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Semi-Anechoic chamber (NSA)	Frankonia	AC1	EF00062	2024-07	2027-07
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	EF01824	2025-10	2028-10
EMI Test Receiver	R&S	ESW 44	EF01856	2025-10	2026-10

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Semi-Anechoic chamber (SVSWR)	Frankonia	AC1	EF01011	2024-07	2027-07
EMI Test Receiver	R&S	ESW 44	EF01856	2025-10	2026-10
Horn antenna	Schwarzbeck	BBHA 9120D	EF01561	2024-11	2027-11
Horn antenna	Schwarzbeck	BBHA 9120B	EF01678	2024-05	2027-05
Antenna	Schwarzbeck	HWRD 650	EF01679	2024-05	2027-05
Antenna	Amplifier Research	AT4560	EF00302	2023-09	2026-09
40GHz Standard Gain Horn Antenna	Flann Microwave Ltd	22240-25	EF00749	2026-01	2027-01

3.2.4 Setup



3.2.5 Procedure

Test Procedure 30 - 1000 MHz	
1.	EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground
2.	EUT set to test mode
3.	The receiver is set to peak detection with max hold
4.	The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m
5.	All significant emissions are measured again using the corresponding final detector

Test Procedure > 1 GHz	
1.	EUT is placed on a non conducting support at the center of a turn table 1.5 m above the ground
2.	EUT set to test mode
3.	The receiver is set to peak detection with max hold
4.	The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m
5.	All significant emissions are measured again using the corresponding final detector

3.2.6 Results

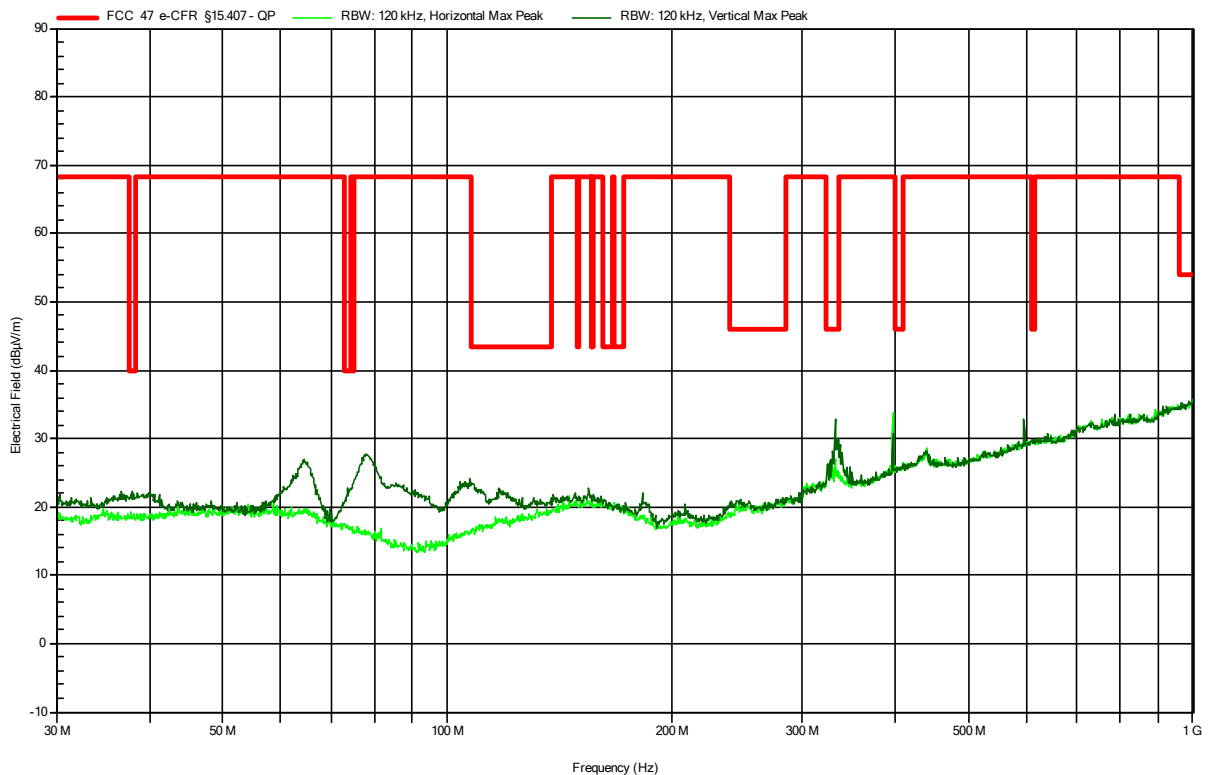
Test Results						
Channel [MHz]	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Margin [dB]
6855	27419.8	36.92	pk	ver	68.2	-31.28
6855	27419.8	31.26	RMS	ver	68.2	-36.94
7085	28340.05	36.85	pk	ver	68.2	-31.35
7085	28340.05	31.99	RMS	ver	68.2	-36.21
Comment: No significant emissions are detected in other channels and frequency ranges.						

ANNEX A Transmitter spurious emissions

Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2601-3542
 Applicant: Eurofins Electric & Electronics Finland Oy
 Model Description: Hamina Clip
 Model: Clip
 Test Sample ID: 52817
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibraimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 22 °Celsius, Vnom: 5 V DC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; 802.11ax/be40, 5965 MHz, Chain A
 Test Date: 2026-03-27

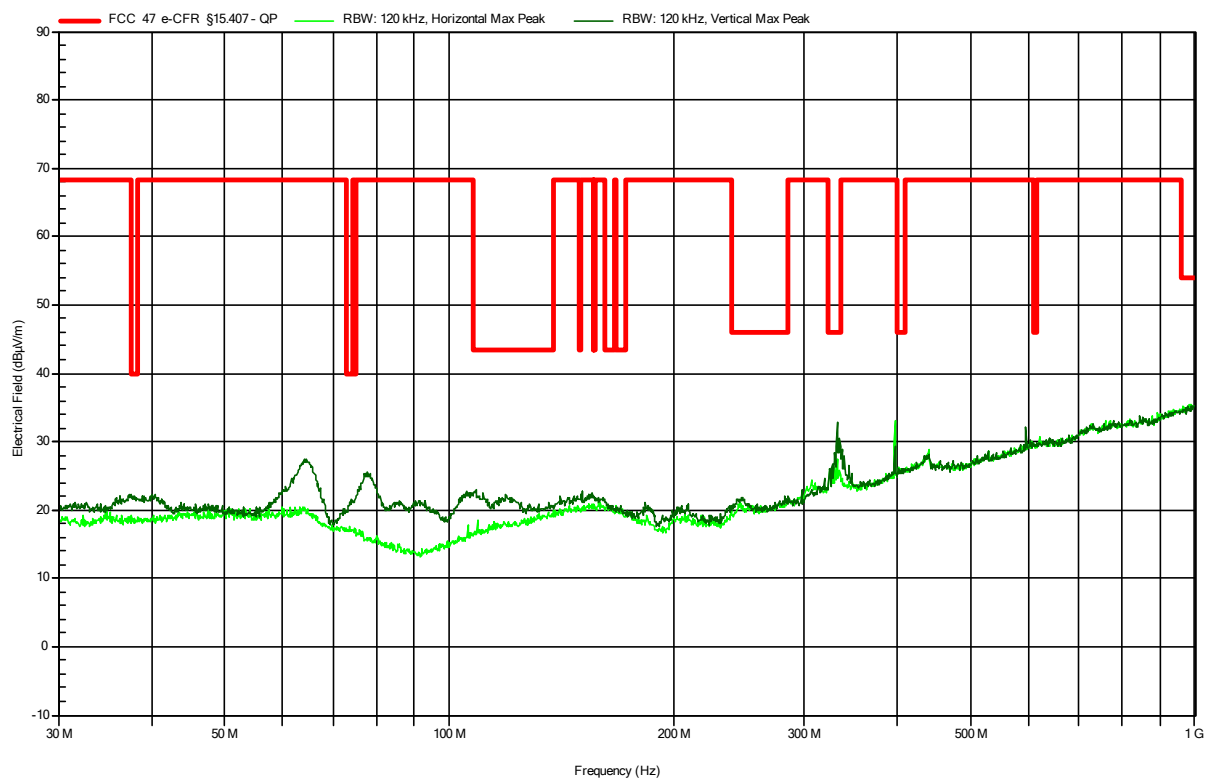
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Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2601-3542
 Applicant: Eurofins Electric & Electronics Finland Oy
 Model Description: Hamina Clip
 Model: Clip
 Test Sample ID: 52817
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 22 °Celsius, Vnom: 5 V DC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; 802.11ax/be160, 6505 MHz, Chain A+B
 Test Date: 2026-03-27

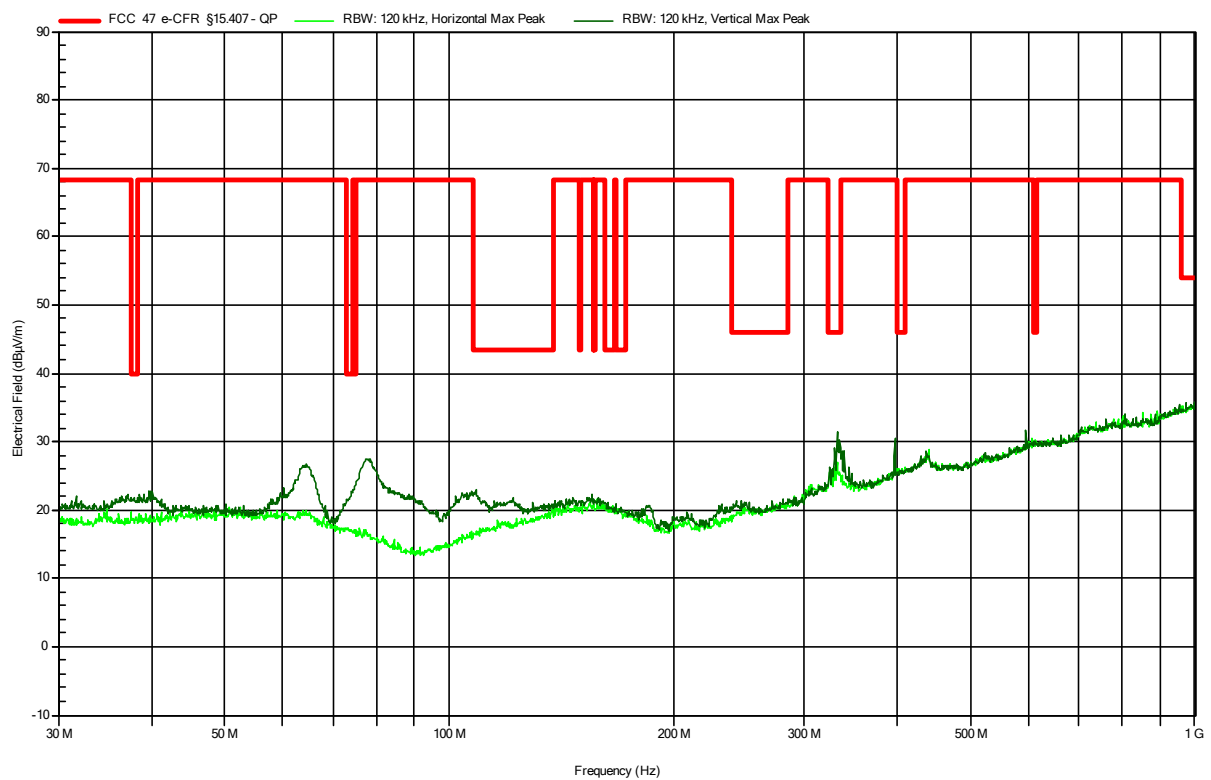
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Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2601-3542
 Applicant: Eurofins Electric & Electronics Finland Oy
 Model Description: Hamina Clip
 Model: Clip
 Test Sample ID: 52817
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 22 °Celsius, Vnom: 5 V DC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; 802.11ax/be20, 6855 MHz, Chain B
 Test Date: 2026-03-27

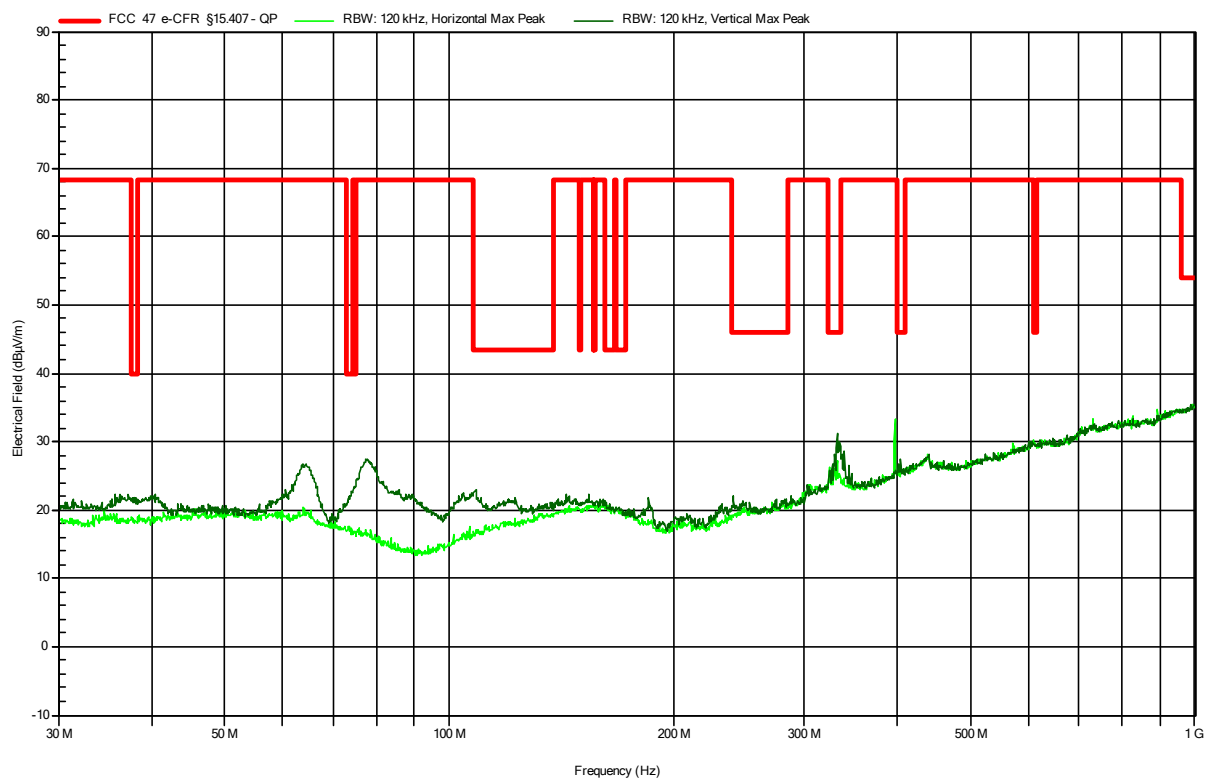
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Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2601-3542
 Applicant: Eurofins Electric & Electronics Finland Oy
 Model Description: Hamina Clip
 Model: Clip
 Test Sample ID: 52817
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 22 °Celsius, Vnom: 5 V DC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; 802.11ax/be40, 7085 MHz, Chain A
 Test Date: 2026-03-27

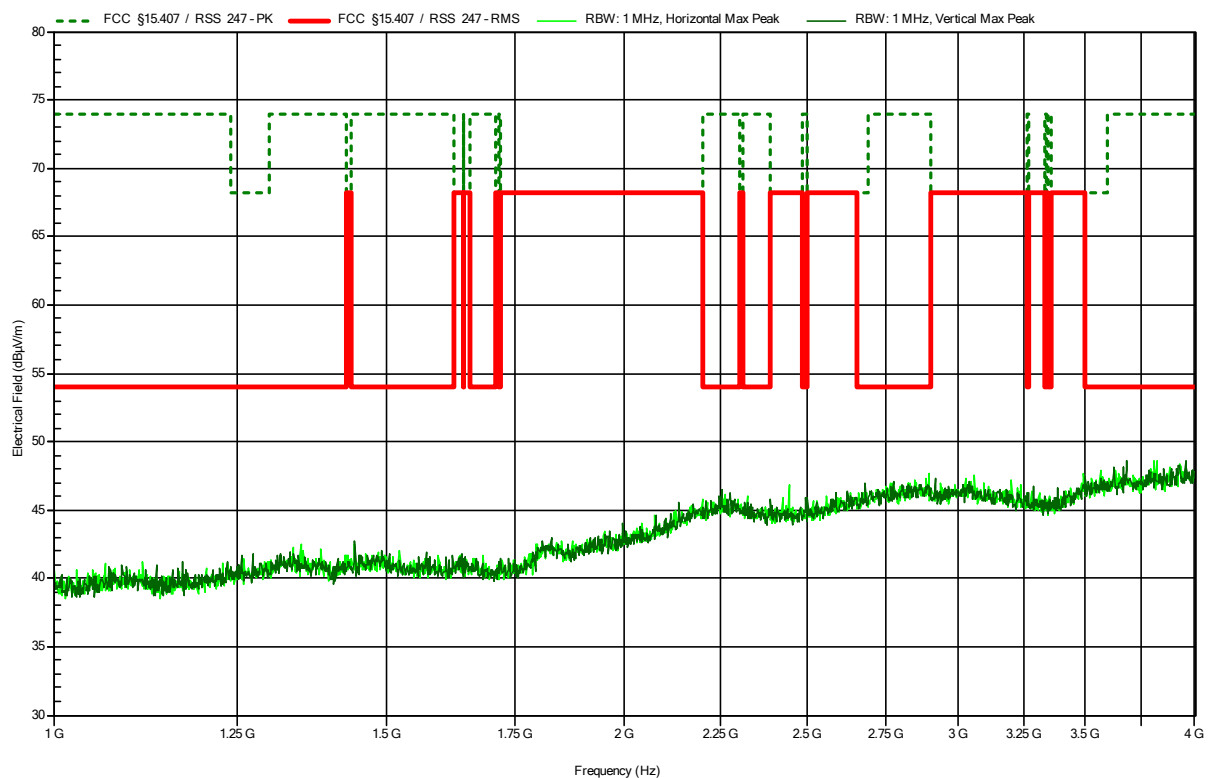
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Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2601-3542
 Applicant: Eurofins Electric & Electronics Finland Oy
 Model Description: Hamina Clip
 Model: Clip
 Test Sample ID: 52817
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 22 °Celsius, Vnom: 5 V DC
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Tx; 802.11ax/be40, 5965 MHz, Chain A
 Test Date: 2026-03-30

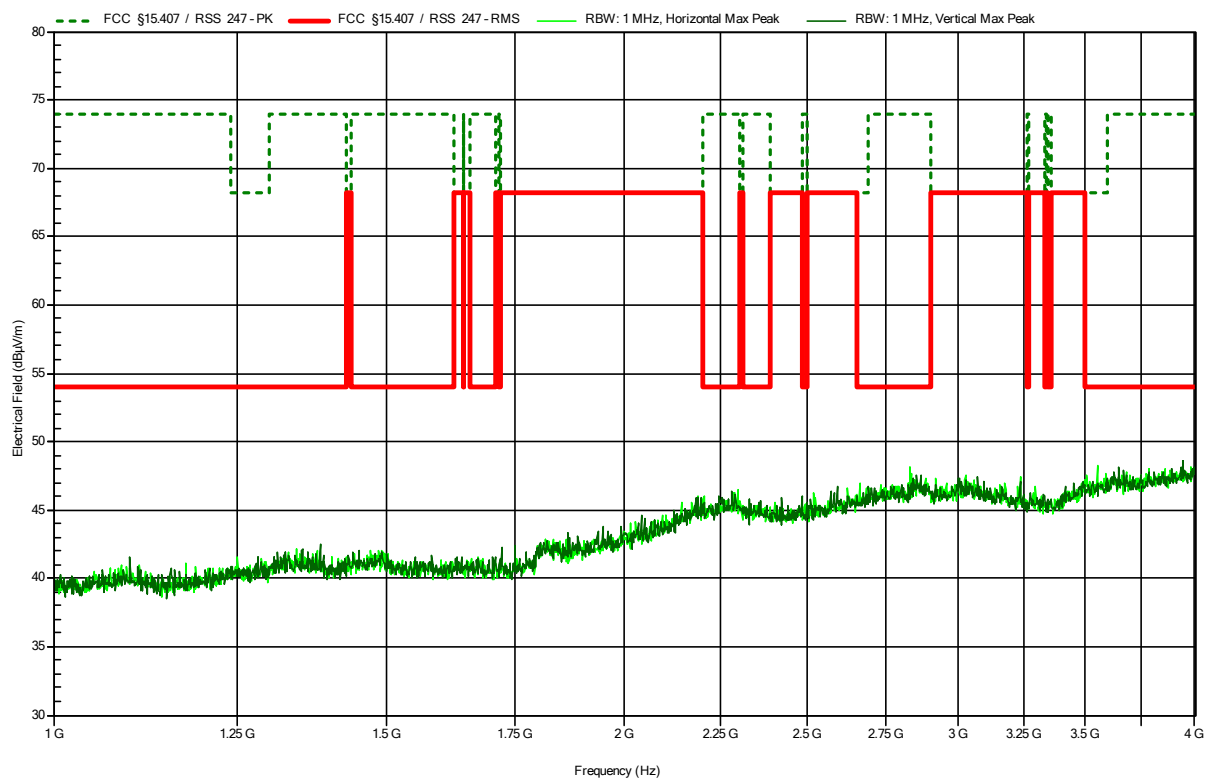
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Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2601-3542
 Applicant: Eurofins Electric & Electronics Finland Oy
 Model Description: Hamina Clip
 Model: Clip
 Test Sample ID: 52817
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 22 °Celsius, Vnom: 5 V DC
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Tx; 802.11ax/be160, 6505 MHz, Chain A+B
 Test Date: 2026-03-30

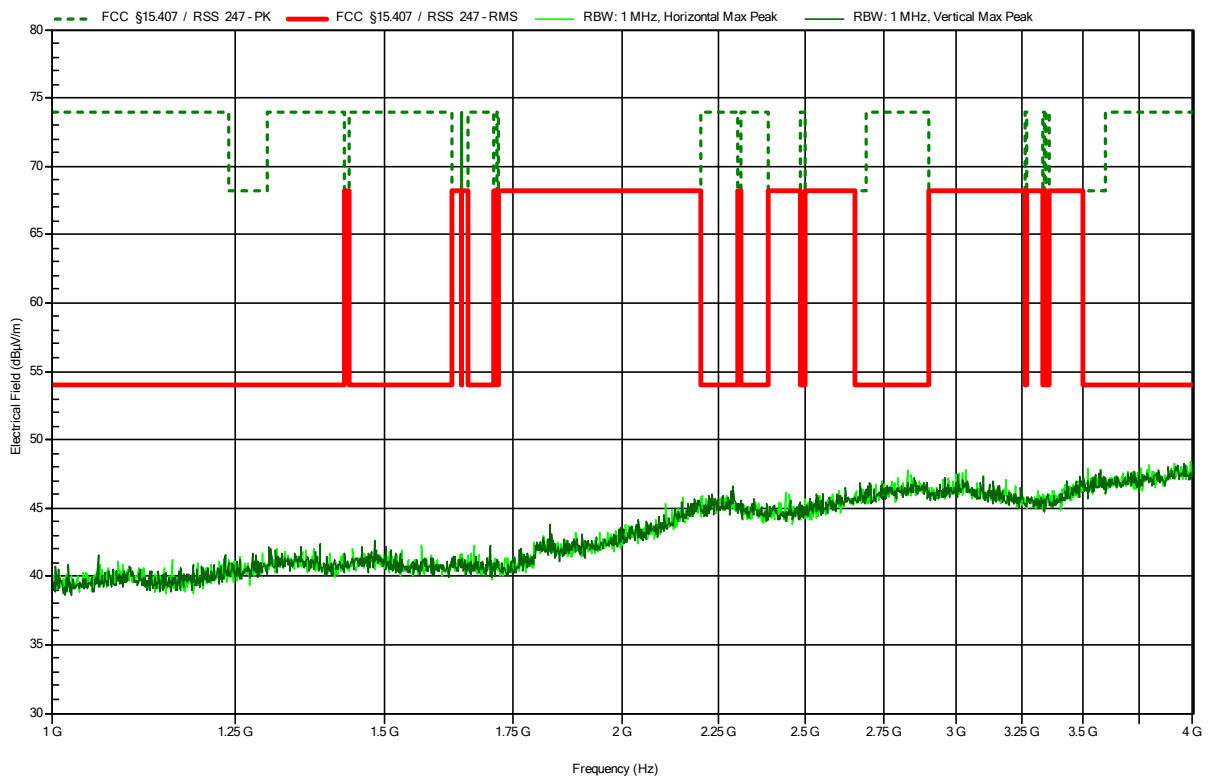
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Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2601-3542
 Applicant: Eurofins Electric & Electronics Finland Oy
 Model Description: Hamina Clip
 Model: Clip
 Test Sample ID: 52817
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 22 °Celsius, Vnom: 5 V DC
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Tx; 802.11ax/be20, 6855 MHz, Chain B
 Test Date: 2026-03-30

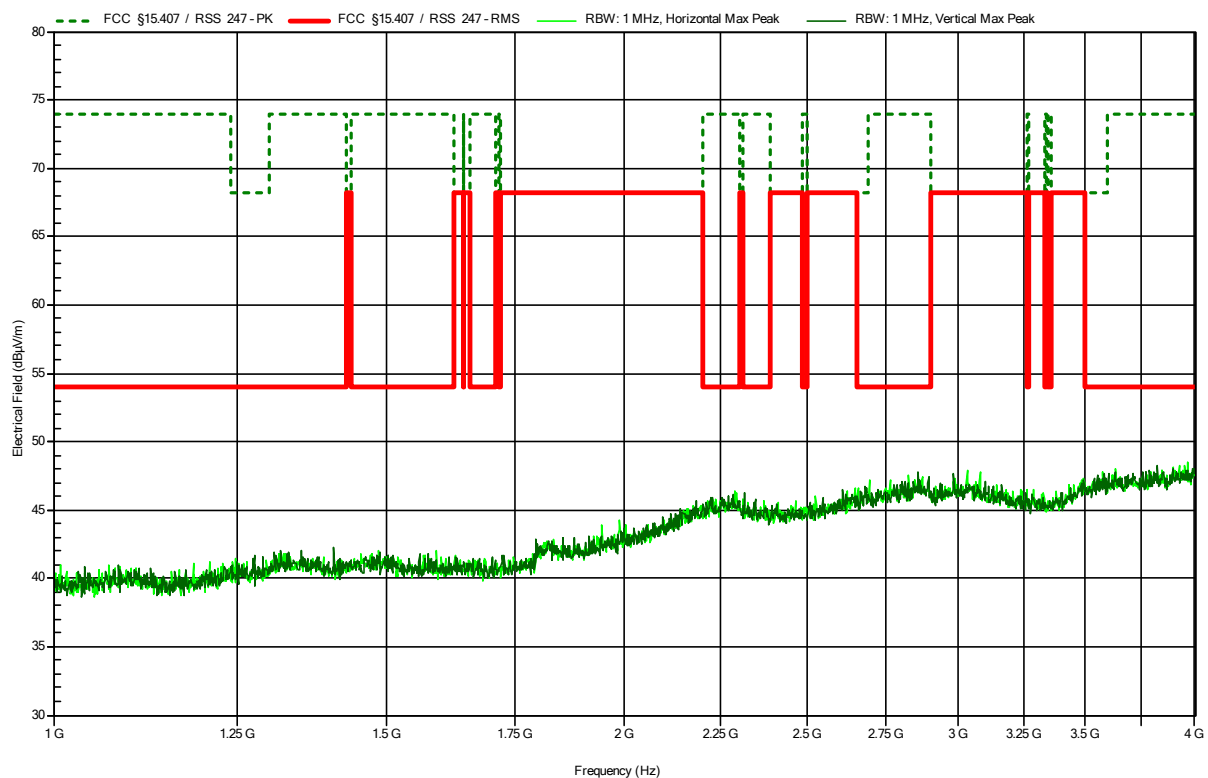
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Radiated Spurious Emissions according to 47 CFR Part 15.407

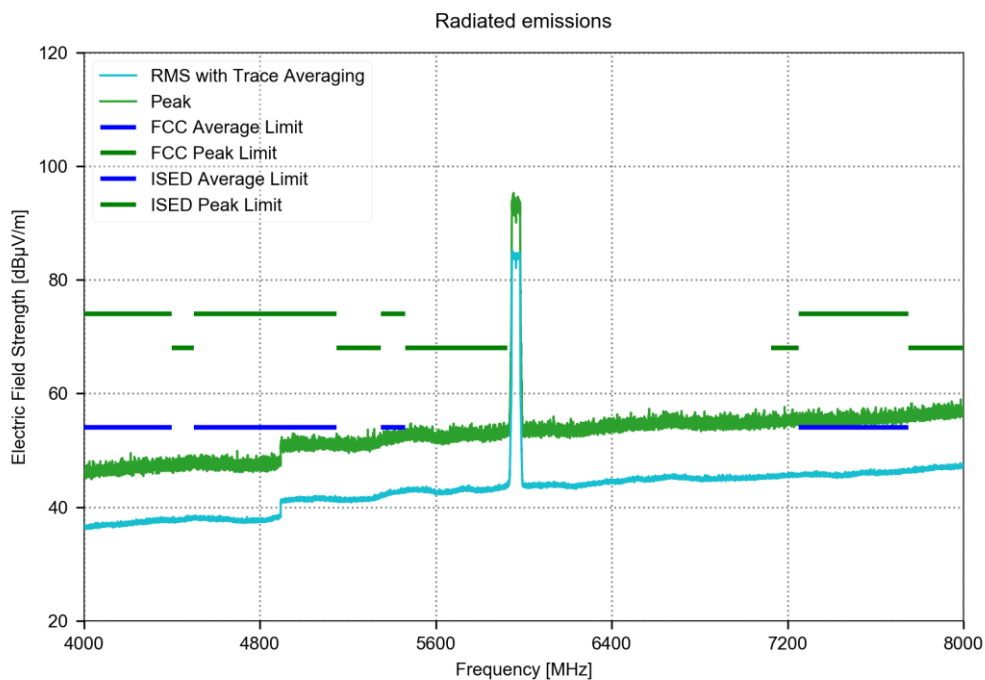
Project Number: G0M-2601-3542
 Applicant: Eurofins Electric & Electronics Finland Oy
 Model Description: Hamina Clip
 Model: Clip
 Test Sample ID: 52817
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 22 °Celsius, Vnom: 5 V DC
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Tx; 802.11ax/be40, 7085 MHz, Chain A
 Test Date: 2026-03-30

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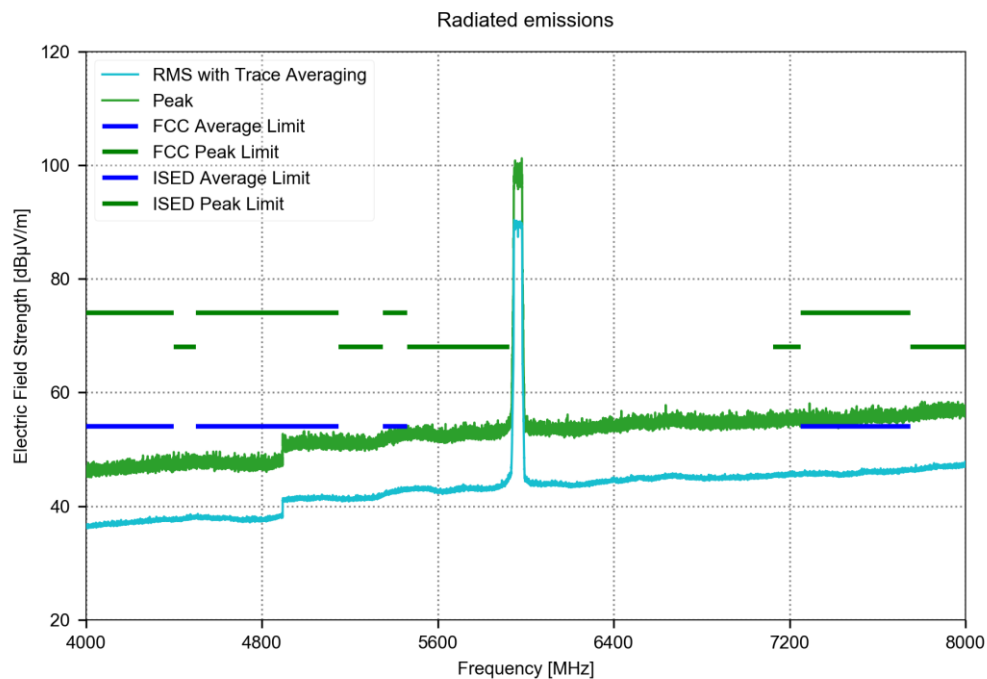
Radiated Spurious Emissions

Project Number:	G0M-2601-3542
Applicant:	Hamina Wireless Oy
Model Description:	Hamina Clip
Model:	Clip
Test Sample ID:	52817
Reference Standards:	FCC 15.407, RSS-248
Reference Method:	ANSI C63.10:2020 Section 12.7.7, KDB 789033 Section 6
Operational Mode:	IEEE 802.11ax/be40, 5965 MHz, Chain A
Duty cycle [%]:	99.0
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2026-04-02
Antenna:	BBHA 9120B Vertical
Measurement distance:	3m
Verdict Peak	Pass
Verdict Average	Pass



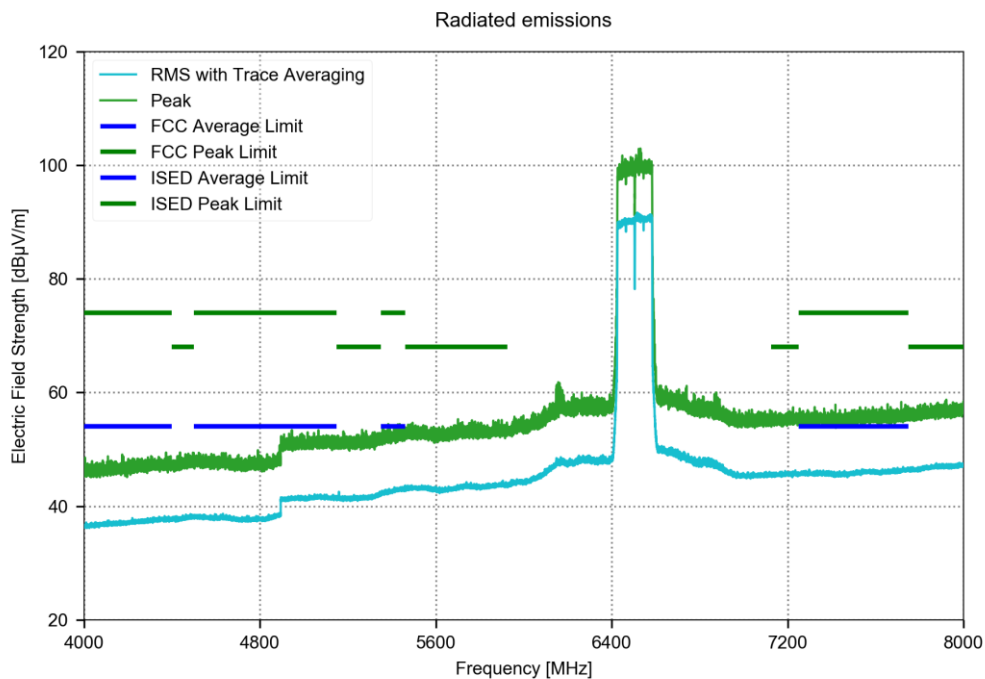
Radiated Spurious Emissions

Project Number:	G0M-2601-3542
Applicant:	Hamina Wireless Oy
Model Description:	Hamina Clip
Model:	Clip
Test Sample ID:	52817
Reference Standards:	FCC 15.407, RSS-248
Reference Method:	ANSI C63.10:2020 Section 12.7.7, KDB 789033 Section 6
Operational Mode:	IEEE 802.11ax/be40, 5965 MHz, Chain A
Duty cycle [%]:	99.0
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2026-04-02
Antenna:	BBHA 9120B Horizontal
Measurement distance:	3m
Verdict Peak	Pass
Verdict Average	Pass



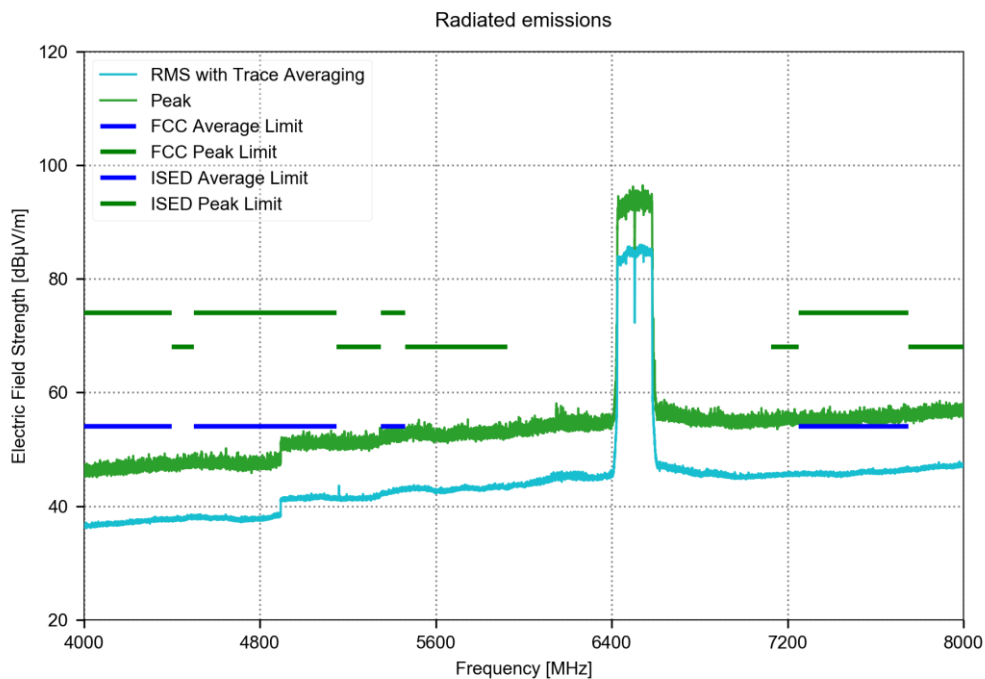
Radiated Spurious Emissions

Project Number:	G0M-2601-3542
Applicant:	Hamina Wireless Oy
Model Description:	Hamina Clip
Model:	Clip
Test Sample ID:	52817
Reference Standards:	FCC 15.407, RSS-248
Reference Method:	ANSI C63.10:2020 Section 12.7.7, KDB 789033 Section 6
Operational Mode:	IEEE 802.11ax/be160, 6505 MHz, Chain A+B
Duty cycle [%]:	99.0
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2026-04-02
Antenna:	BBHA 9120B Horizontal
Measurement distance:	3m
Verdict Peak	Pass
Verdict Average	Pass



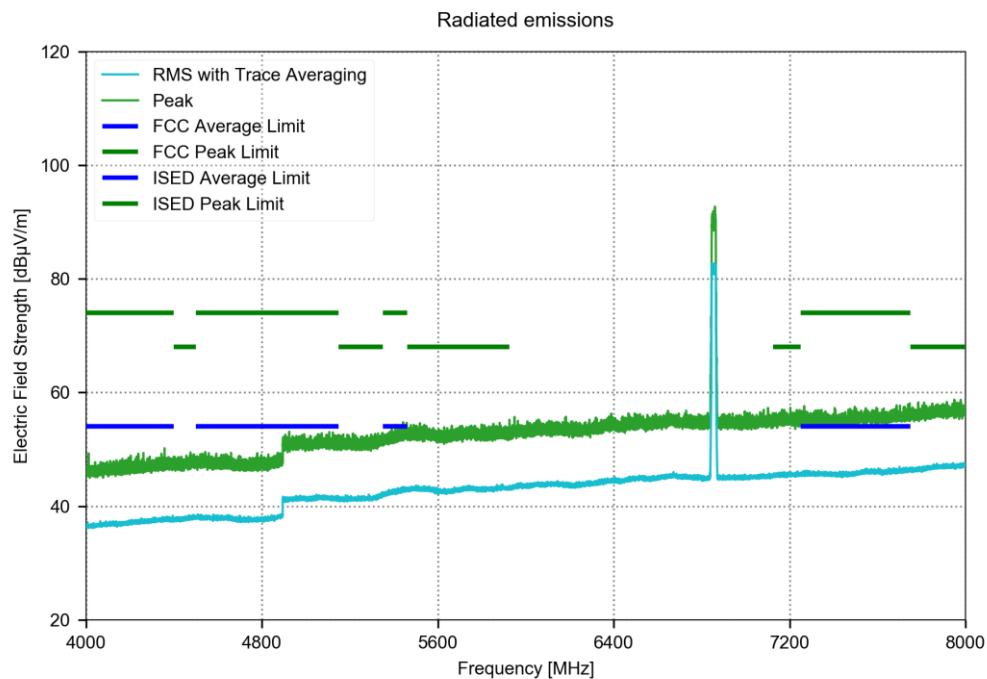
Radiated Spurious Emissions

Project Number:	G0M-2601-3542
Applicant:	Hamina Wireless Oy
Model Description:	Hamina Clip
Model:	Clip
Test Sample ID:	52817
Reference Standards:	FCC 15.407, RSS-248
Reference Method:	ANSI C63.10:2020 Section 12.7.7, KDB 789033 Section 6
Operational Mode:	IEEE 802.11ax/be160, 6505 MHz, Chain A+B
Duty cycle [%]:	99.0
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2026-04-02
Antenna:	BBHA 9120B Vertical
Measurement distance:	3m
Verdict Peak	Pass
Verdict Average	Pass



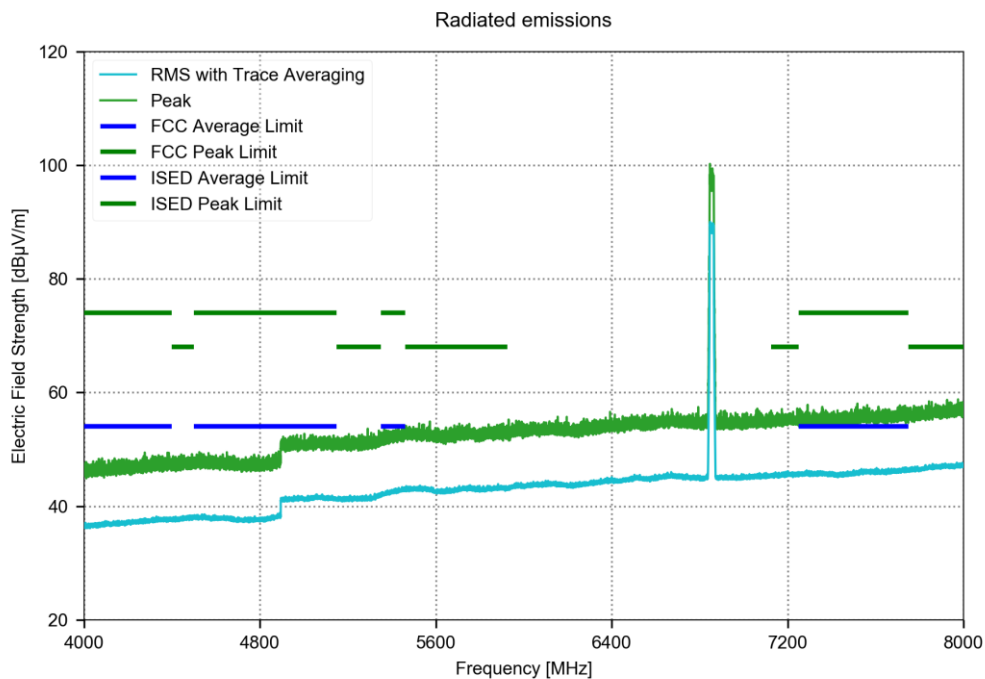
Radiated Spurious Emissions

Project Number:	G0M-2601-3542
Applicant:	Hamina Wireless Oy
Model Description:	Hamina Clip
Model:	Clip
Test Sample ID:	52817
Reference Standards:	FCC 15.407, RSS-248
Reference Method:	ANSI C63.10:2020 Section 12.7.7, KDB 789033 Section 6
Operational Mode:	IEEE 802.11ax/be20, 6855 MHz, Chain B
Duty cycle [%]:	99.0
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2026-04-02
Antenna:	BBHA 9120B Vertical
Measurement distance:	3m
Verdict Peak	Pass
Verdict Average	Pass



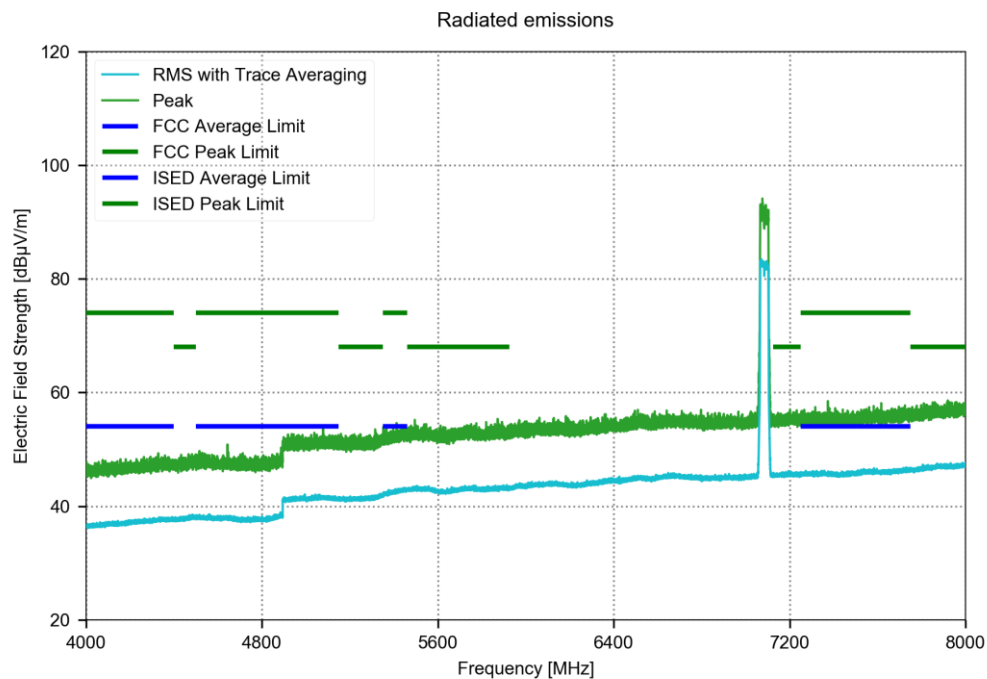
Radiated Spurious Emissions

Project Number:	G0M-2601-3542
Applicant:	Hamina Wireless Oy
Model Description:	Hamina Clip
Model:	Clip
Test Sample ID:	52817
Reference Standards:	FCC 15.407, RSS-248
Reference Method:	ANSI C63.10:2020 Section 12.7.7, KDB 789033 Section 6
Operational Mode:	IEEE 802.11ax/be20, 6855 MHz, Chain B
Duty cycle [%]:	99.0
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2026-04-02
Antenna:	BBHA 9120B Horizontal
Measurement distance:	3m
Verdict Peak	Pass
Verdict Average	Pass



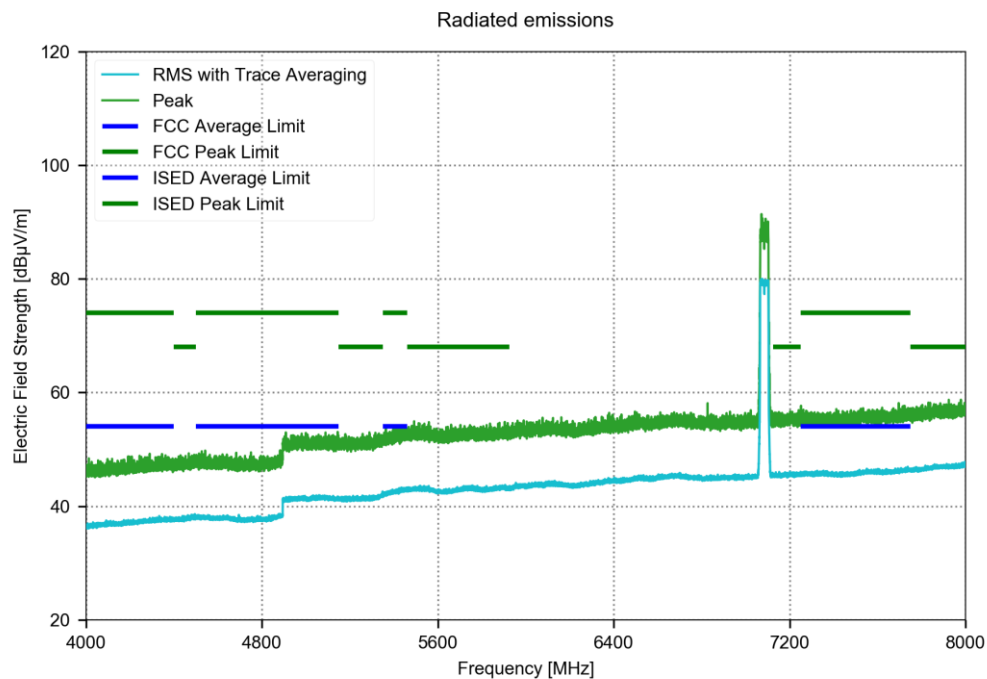
Radiated Spurious Emissions

Project Number:	G0M-2601-3542
Applicant:	Hamina Wireless Oy
Model Description:	Hamina Clip
Model:	Clip
Test Sample ID:	52817
Reference Standards:	FCC 15.407, RSS-248
Reference Method:	ANSI C63.10:2020 Section 12.7.7, KDB 789033 Section 6
Operational Mode:	IEEE 802.11ax/be40, 7085 MHz, Chain A
Duty cycle [%]:	99.0
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2026-04-02
Antenna:	BBHA 9120B Horizontal
Measurement distance:	3m
Verdict Peak	Pass
Verdict Average	Pass



Radiated Spurious Emissions

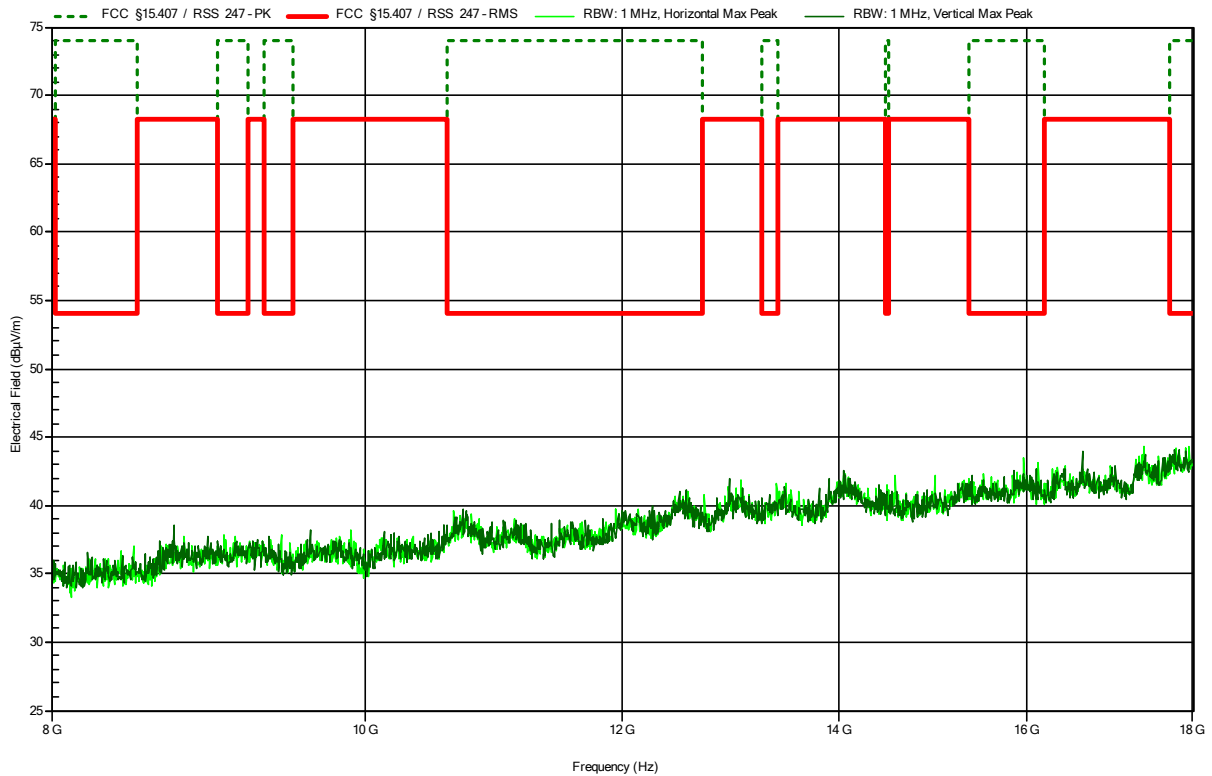
Project Number:	G0M-2601-3542
Applicant:	Hamina Wireless Oy
Model Description:	Hamina Clip
Model:	Clip
Test Sample ID:	52817
Reference Standards:	FCC 15.407, RSS-248
Reference Method:	ANSI C63.10:2020 Section 12.7.7, KDB 789033 Section 6
Operational Mode:	IEEE 802.11ax/be40, 7085 MHz, Chain A
Duty cycle [%]:	99.0
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2026-04-02
Antenna:	BBHA 9120B Vertical
Measurement distance:	3m
Verdict Peak	Pass
Verdict Average	Pass



Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2601-3542
 Applicant: Eurofins Electric & Electronics Finland Oy
 Model Description: Hamina Clip
 Model: Clip
 Test Sample ID: 52817
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 22 °Celsius, Vnom: 5 V DC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; 802.11ax/be40, 5965 MHz, Chain A
 Test Date: 2026-03-30

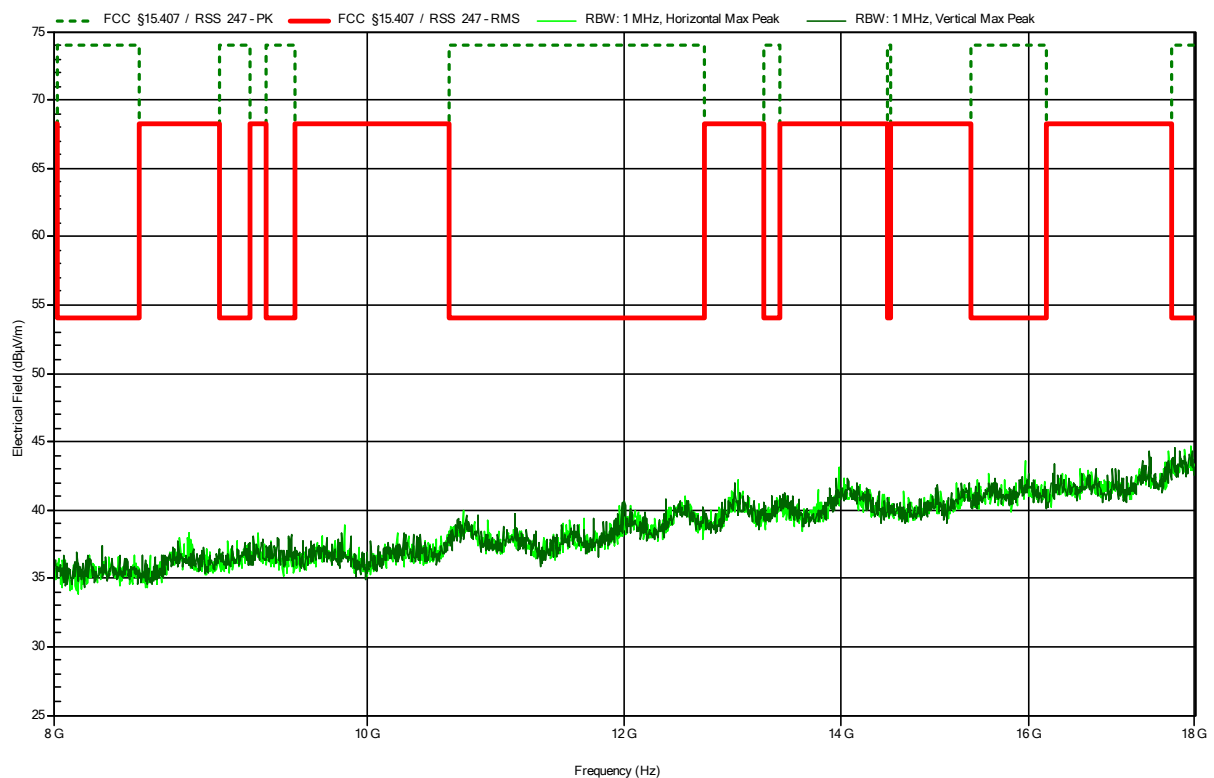
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Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2601-3542
 Applicant: Eurofins Electric & Electronics Finland Oy
 Model Description: Hamina Clip
 Model: Clip
 Test Sample ID: 52817
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 22 °Celsius, Vnom: 5 V DC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; 802.11ax/be160, 6505 MHz, Chain A+B
 Test Date: 2026-03-30

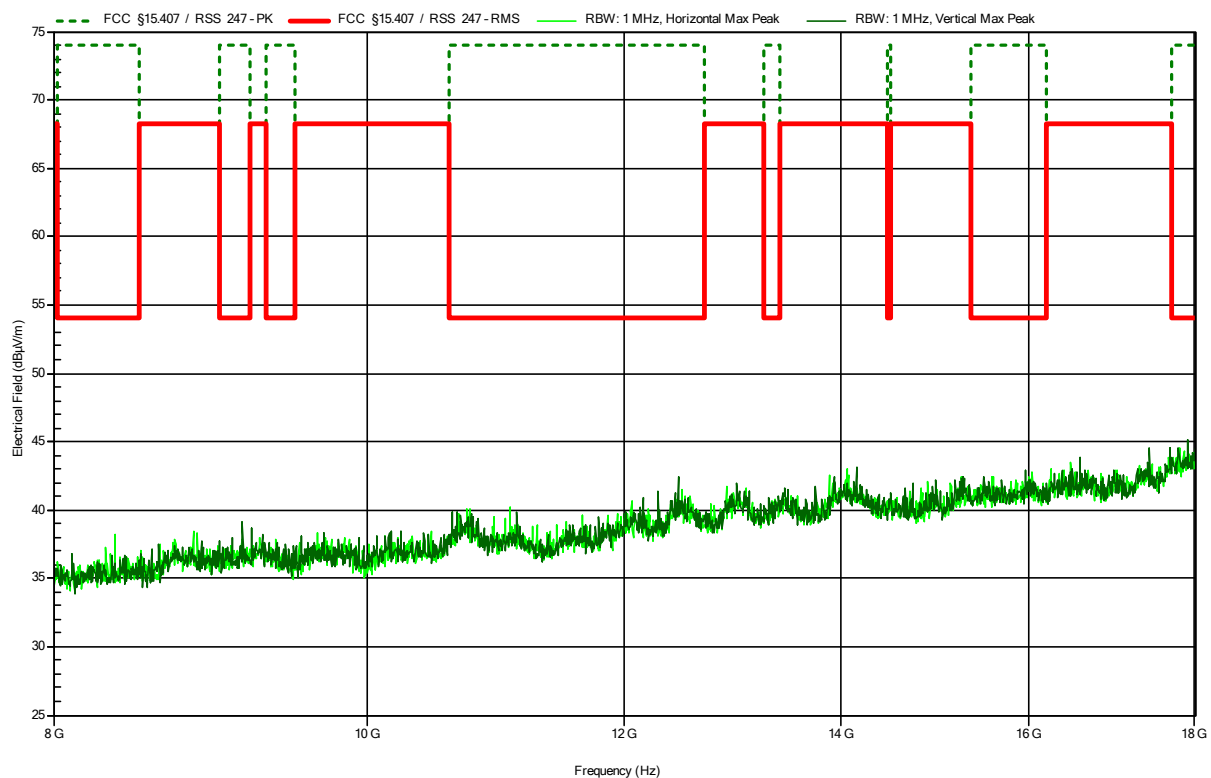
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Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2601-3542
 Applicant: Eurofins Electric & Electronics Finland Oy
 Model Description: Hamina Clip
 Model: Clip
 Test Sample ID: 52817
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 22 °Celsius, Vnom: 5 V DC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; 802.11ax/be20, 6855 MHz, Chain B
 Test Date: 2026-03-30

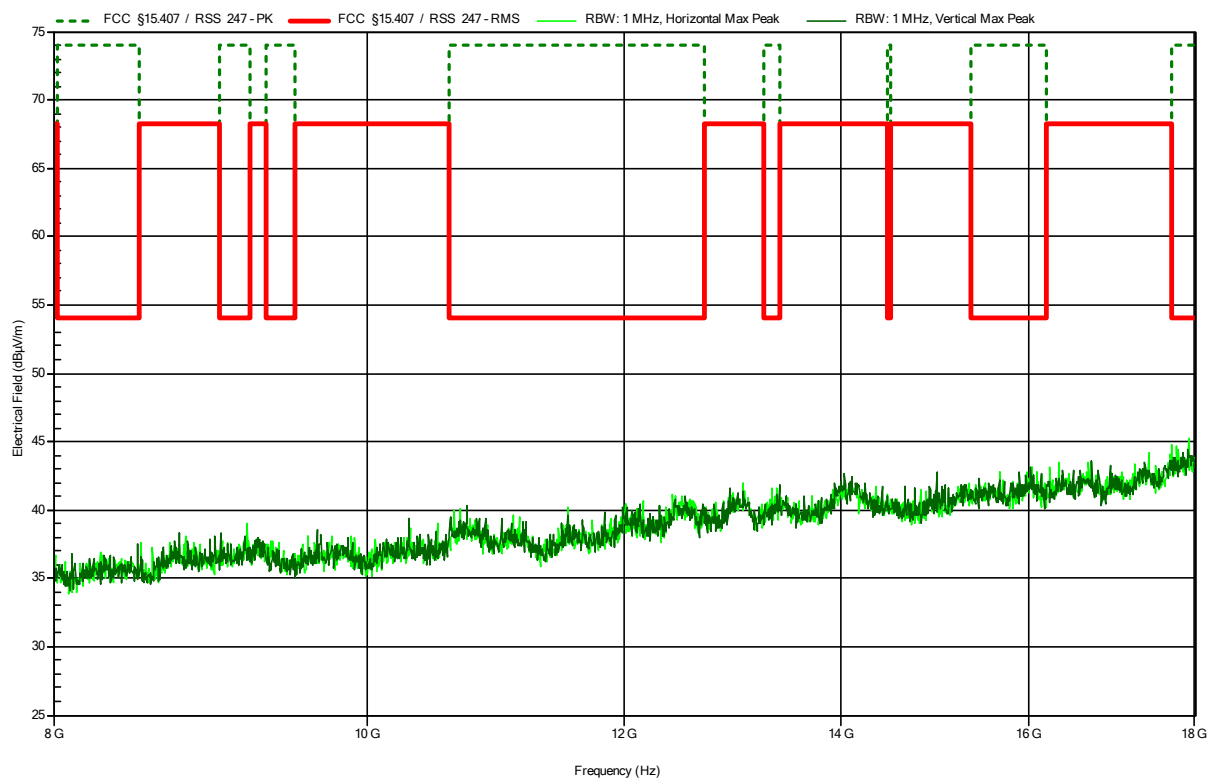
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Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2601-3542
 Applicant: Eurofins Electric & Electronics Finland Oy
 Model Description: Hamina Clip
 Model: Clip
 Test Sample ID: 52817
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 22 °Celsius, Vnom: 5 V DC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; 802.11ax/be40, 7085 MHz, Chain A
 Test Date: 2026-03-30

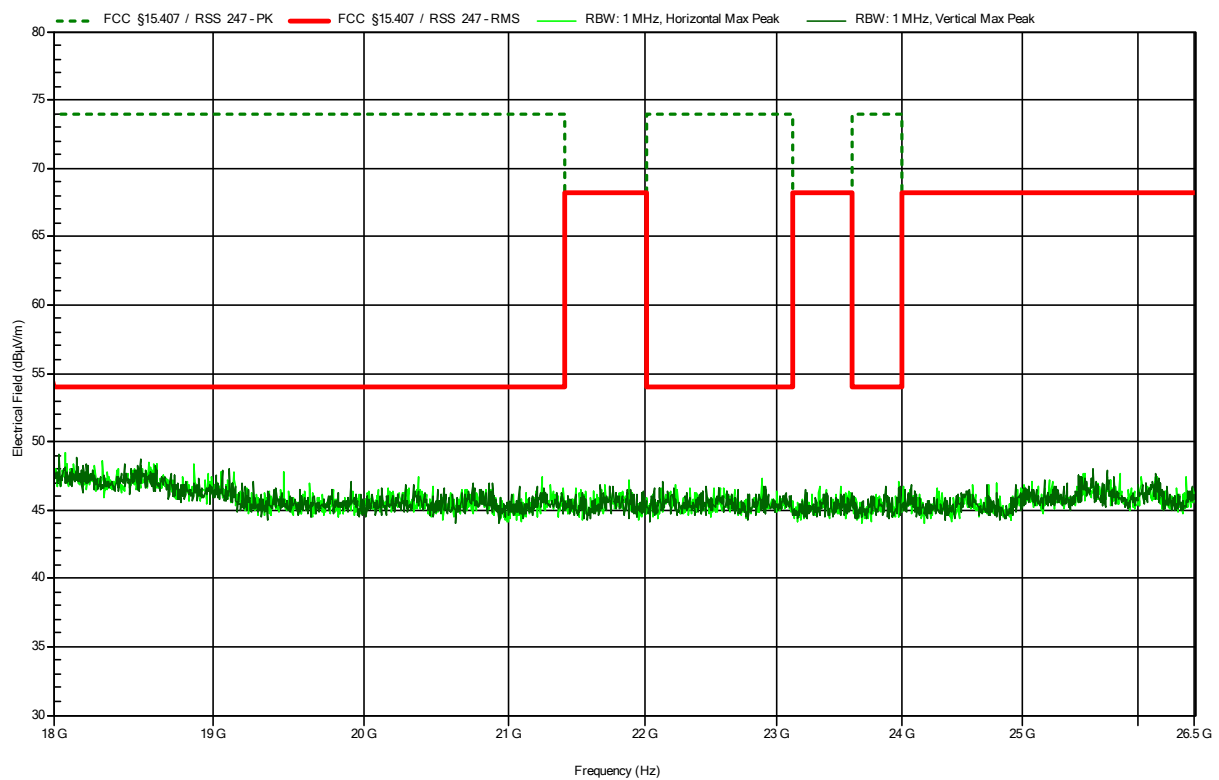
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Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2601-3542
 Applicant: Eurofins Electric & Electronics Finland Oy
 Model Description: Hamina Clip
 Model: Clip
 Test Sample ID: 52817
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 22 °Celsius, Vnom: 5 V DC
 Antenna: Amplifier Research Configurable Antenna
 Measurement distance: 3 m
 Mode: Tx; 802.11ax/be40, 5965 MHz, Chain A
 Test Date: 2026-03-27

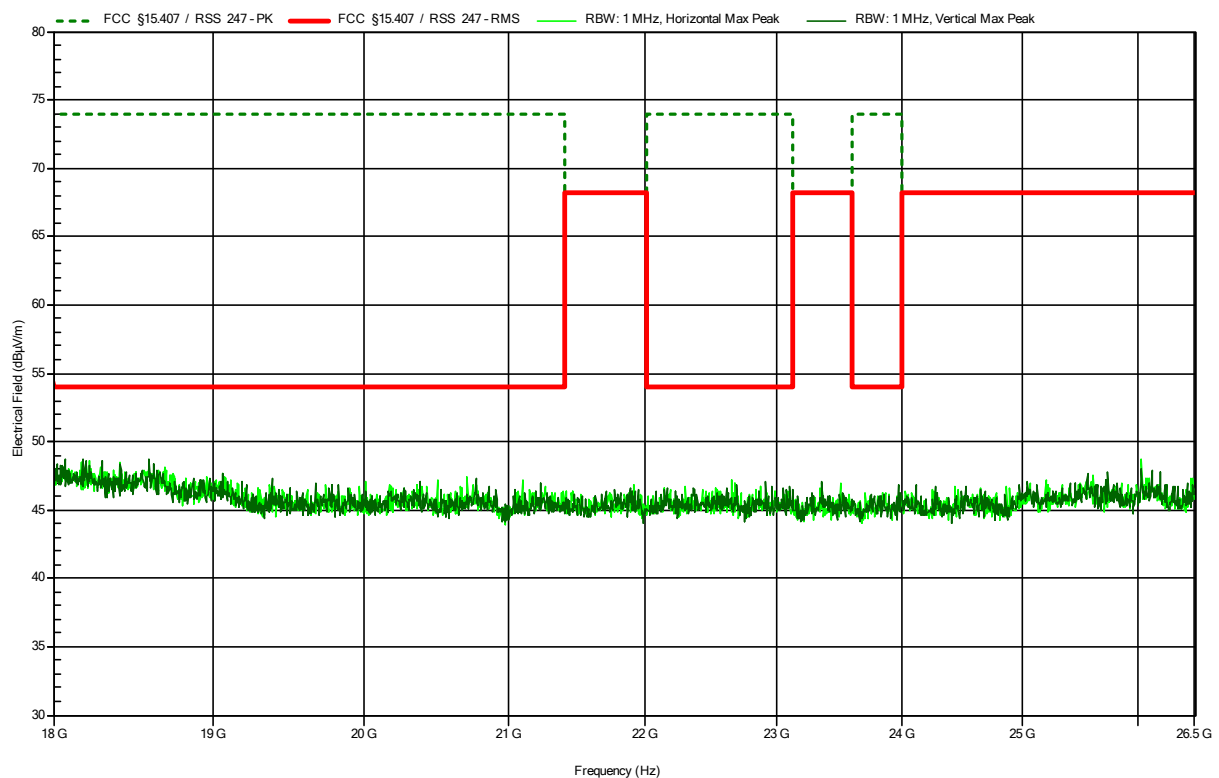
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Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2601-3542
 Applicant: Eurofins Electric & Electronics Finland Oy
 Model Description: Hamina Clip
 Model: Clip
 Test Sample ID: 52817
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 22 °Celsius, Vnom: 5 V DC
 Antenna: Amplifier Research Configurable Antenna
 Measurement distance: 3 m
 Mode: Tx; 802.11ax/be160, 6505 MHz, Chain A+B
 Test Date: 2026-03-27

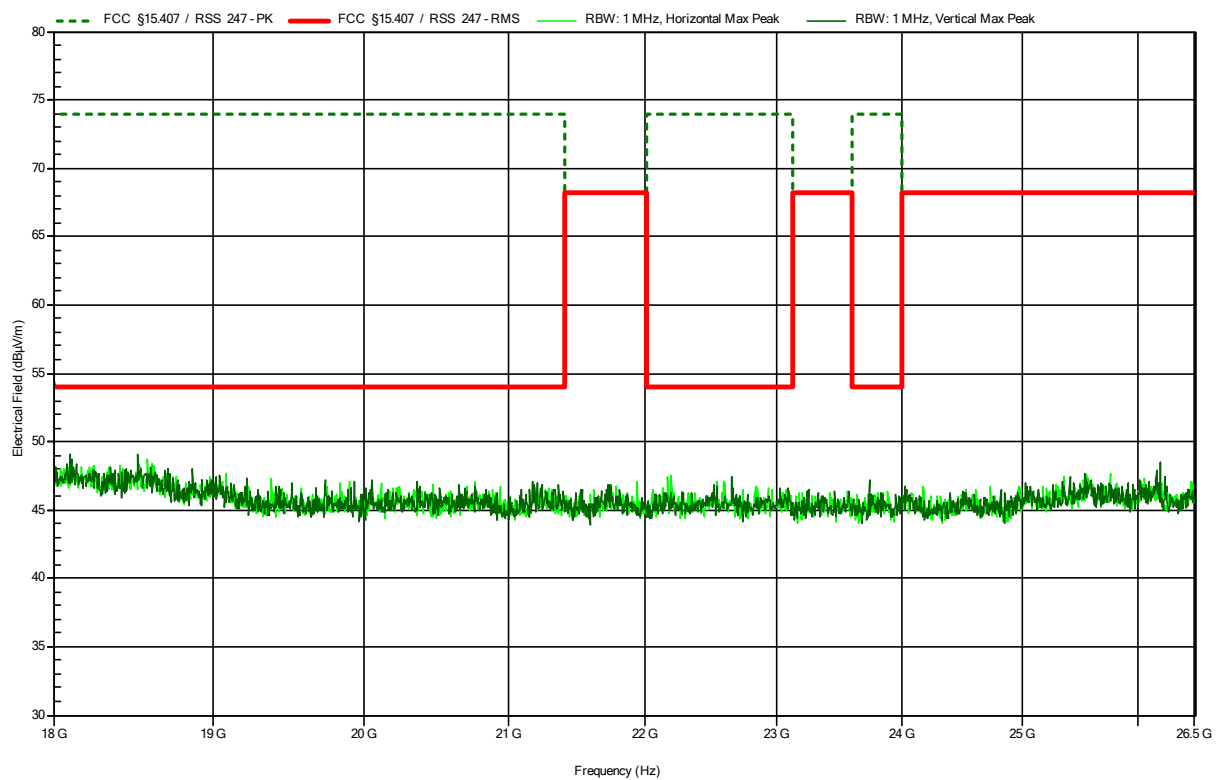
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Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2601-3542
 Applicant: Eurofins Electric & Electronics Finland Oy
 Model Description: Hamina Clip
 Model: Clip
 Test Sample ID: 52817
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 22 °Celsius, Vnom: 5 V DC
 Antenna: Amplifier Research Configurable Antenna
 Measurement distance: 3 m
 Mode: Tx; 802.11ax/be20, 6855 MHz, Chain B
 Test Date: 2026-03-27

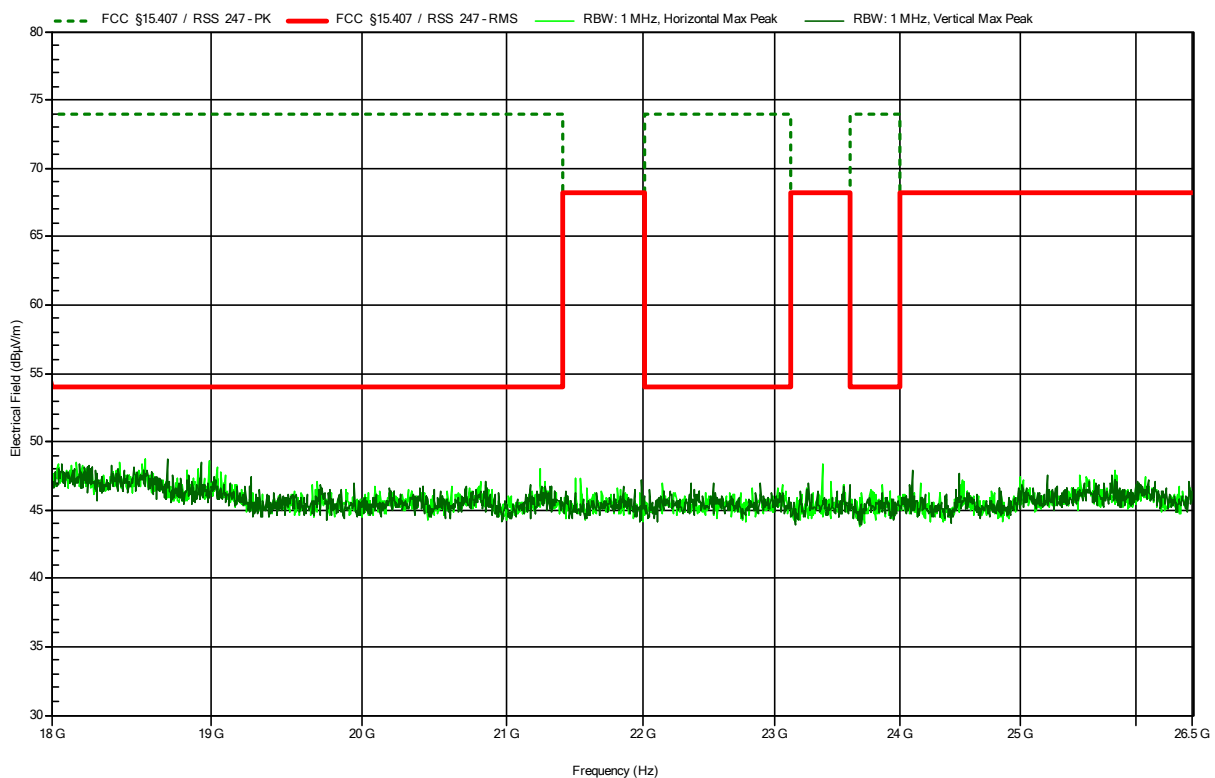
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Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2601-3542
 Applicant: Eurofins Electric & Electronics Finland Oy
 Model Description: Hamina Clip
 Model: Clip
 Test Sample ID: 52817
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 22 °Celsius, Vnom: 5 V DC
 Antenna: Amplifier Research Configurable Antenna
 Measurement distance: 3 m
 Mode: Tx; 802.11ax/be40, 7085 MHz, Chain A
 Test Date: 2026-03-27

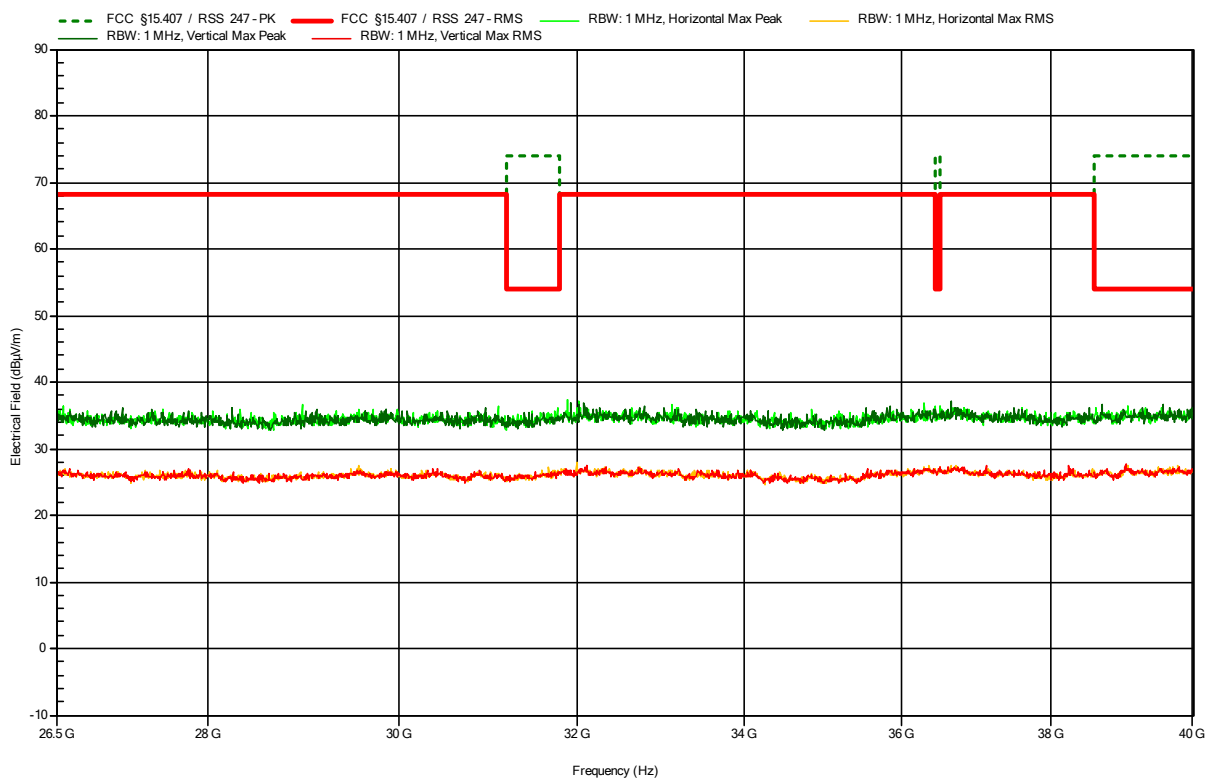
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Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2601-3542
 Applicant: Eurofins Electric & Electronics Finland Oy
 Model Description: Hamina Clip
 Model: Clip
 Test Sample ID: 52817
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 22 °Celsius, Vnom: 5 V DC
 Antenna: Configurable Antenna
 Measurement distance: 3 m
 Mode: Tx; 802.11ax/be40, 5965 MHz, Chain A
 Test Date: 2026-03-27

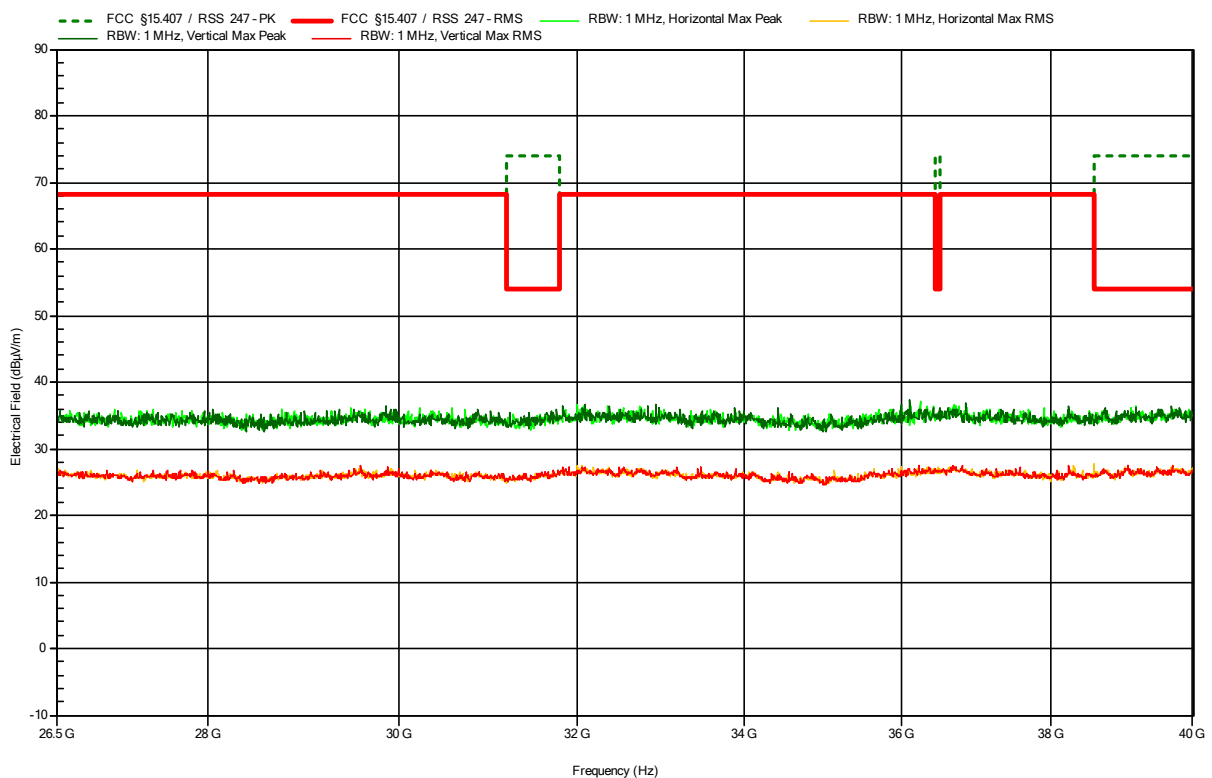
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Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2601-3542
 Applicant: Eurofins Electric & Electronics Finland Oy
 Model Description: Hamina Clip
 Model: Clip
 Test Sample ID: 52817
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 22 °Celsius, Vnom: 5 V DC
 Antenna: Configurable Antenna
 Measurement distance: 3 m
 Mode: Tx; 802.11ax/be160, 6505 MHz, Chain A+B
 Test Date: 2026-03-27

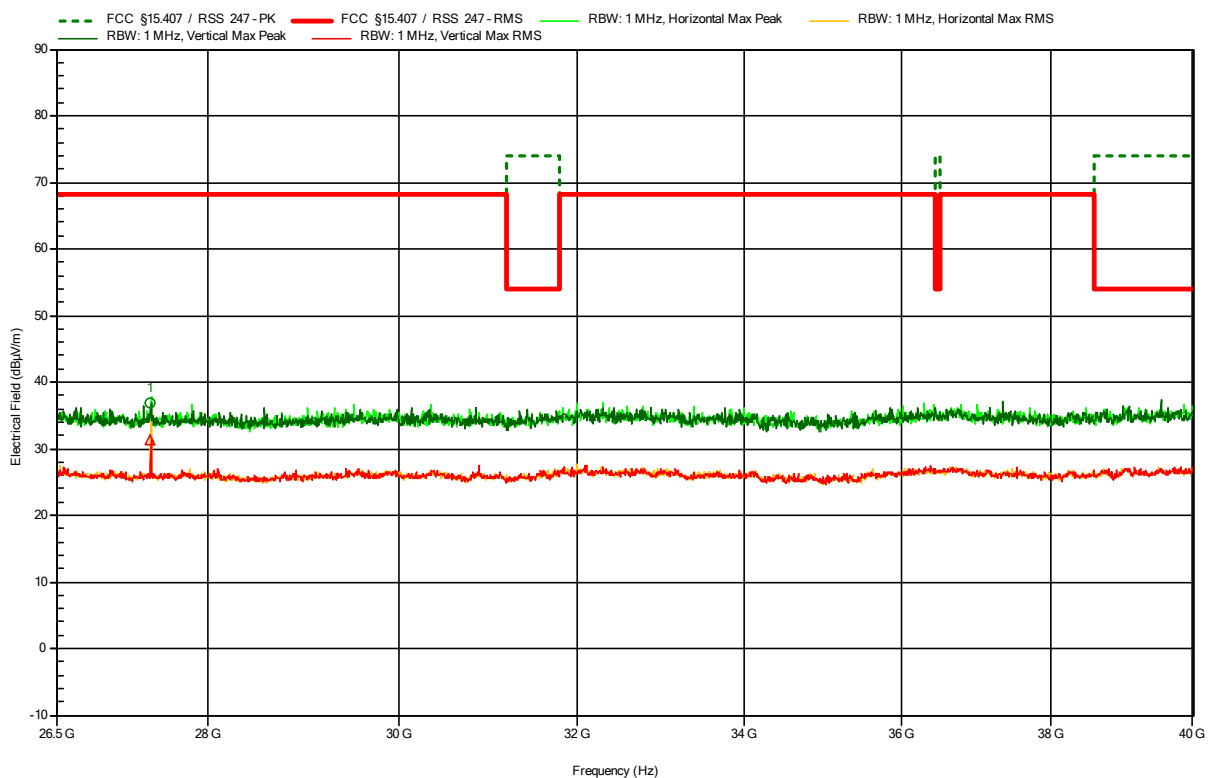
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Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2601-3542
 Applicant: Eurofins Electric & Electronics Finland Oy
 Model Description: Hamina Clip
 Model: Clip
 Test Sample ID: 52817
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 22 °Celsius, Vnom: 5 V DC
 Antenna: Configurable Antenna
 Measurement distance: 3 m
 Mode: Tx; 802.11ax/be20, 6855 MHz, Chain B
 Test Date: 2026-03-27

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Peak Number	Frequency (MHz)	Peak (dBμV/m)	Peak Limit (dBμV/m)	Peak Difference (dB)	Peak Status	Polarization
1	27419.8	36.92	68.2	-31.28	Pass	Vertical

Peak Number	Frequency (MHz)	RMS (dBμV/m)	RMS Limit (dBμV/m)	RMS Difference (dB)	RMS Status	Polarization
1	27419.8	31.26	68.2	-36.94	Pass	Vertical

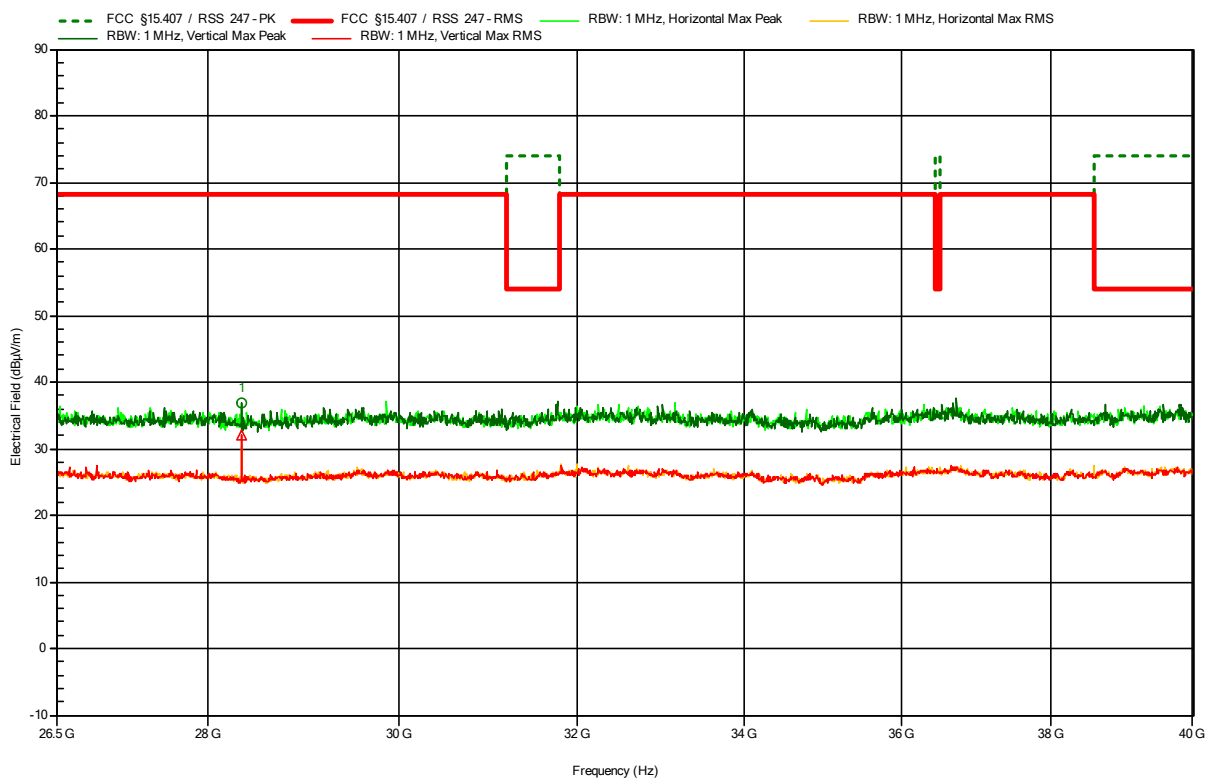
Test Report No.: G0M-2601-3542-TFC407WF01-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2601-3542
 Applicant: Eurofins Electric & Electronics Finland Oy
 Model Description: Hamina Clip
 Model: Clip
 Test Sample ID: 52817
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2024.2.5
 Test Conditions: Tnom: 22 °Celsius, Vnom: 5 V DC
 Antenna: Configurable Antenna
 Measurement distance: 3 m
 Mode: Tx; 802.11ax/be40, 7085 MHz, Chain A
 Test Date: 2026-03-27

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Peak Number	Frequency (MHz)	Peak (dBμV/m)	Peak Limit (dBμV/m)	Peak Difference (dB)	Peak Status	Polarization
1	28340.05	36.85	68.2	-31.35	Pass	Vertical

Peak Number	Frequency (MHz)	RMS (dBμV/m)	RMS Limit (dBμV/m)	RMS Difference (dB)	RMS Status	Polarization
1	28340.05	31.99	68.2	-36.21	Pass	Vertical

=== End of test report ===

Test Report No.: G0M-2601-3542-TFC407WF01-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany