




RADIO REPORT FCC 47 CFR Part 15E Unlicensed National Information Infrastructure Devices in the 5 GHz Bands	
Report Reference No	G0M-2310-2273-TFC407WF-W260-UNII4-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	 DAkkS - Registration number : D-PL-12092-01-04 FCC Filed Test Laboratory, Reg.-No.: 96970
Applicant	u-blox AG
Address	Zürcherstrasse 68 8800 Thalwil SWITZERLAND
Test Specification	47 CFR Part 15E
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	MAYA-W2 Host-based multiradio module
Model(s)	MAYA-W260-00B
Additional Model(s)	None
Brand Name(s)	u-blox
Hardware Version(s)	03
Software Version(s)	1.0.0.39.1-18.80.1.p154.38
FCC ID	XPYMAW2A
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	2023-02-21	
Report:		
Compiled by	Ehsan Sohrabi	
Responsible for test (+ signature) Test Lab Engineer)	Md Abu Bakar Siddique	
Approved by (+ signature) Senior Expert)	Radwan Jaafar	
Date of Issue	2024-01-18	
Total number of pages	59	
General Remarks:		
<p>The test results presented in this report relate only to the object tested.</p> <p>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.</p> <p>This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.</p>		
Additional Comments:		
<p>This test report presents results of a spot-check measurements based on worst-case results reported in the reference device MAYA-W271-00B, according KDB 484596 D01 for an additional variant. The full test data of the reference device is presented in the test report USRC23N389001, issued by Eurofins E&E Wireless Taiwan Co. on 2023-12-22.</p>		

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2024-01-18	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

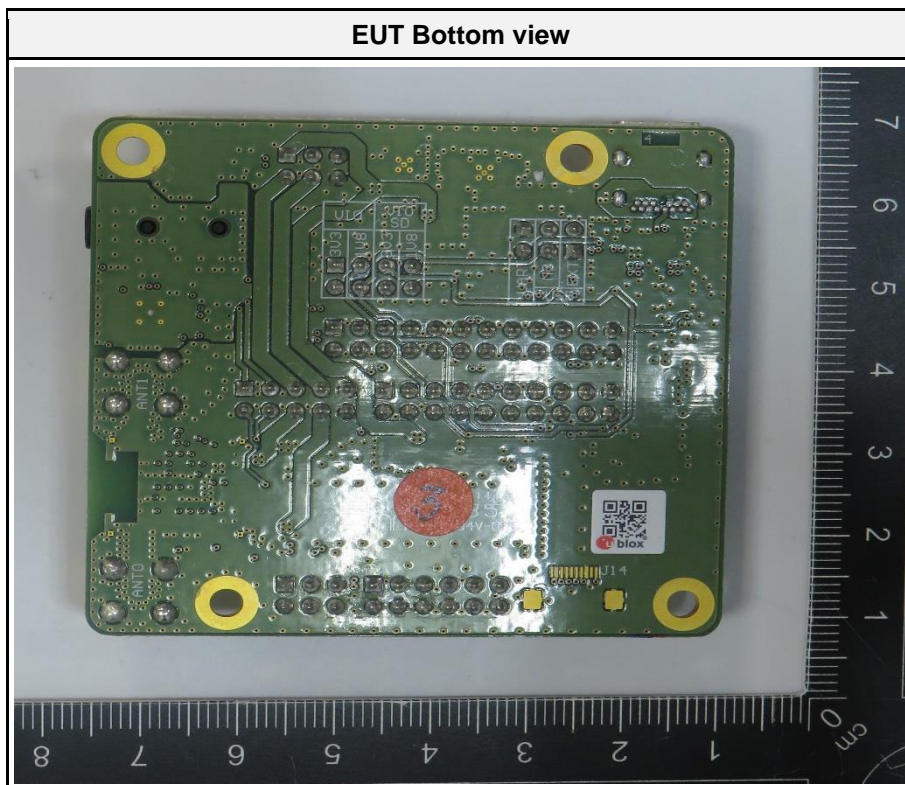
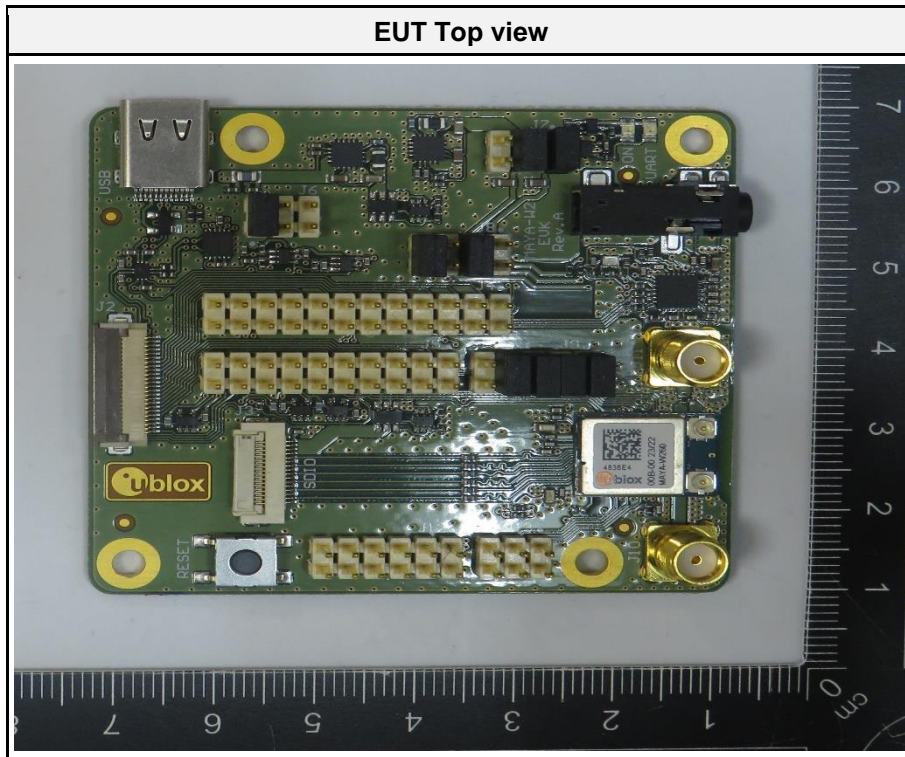
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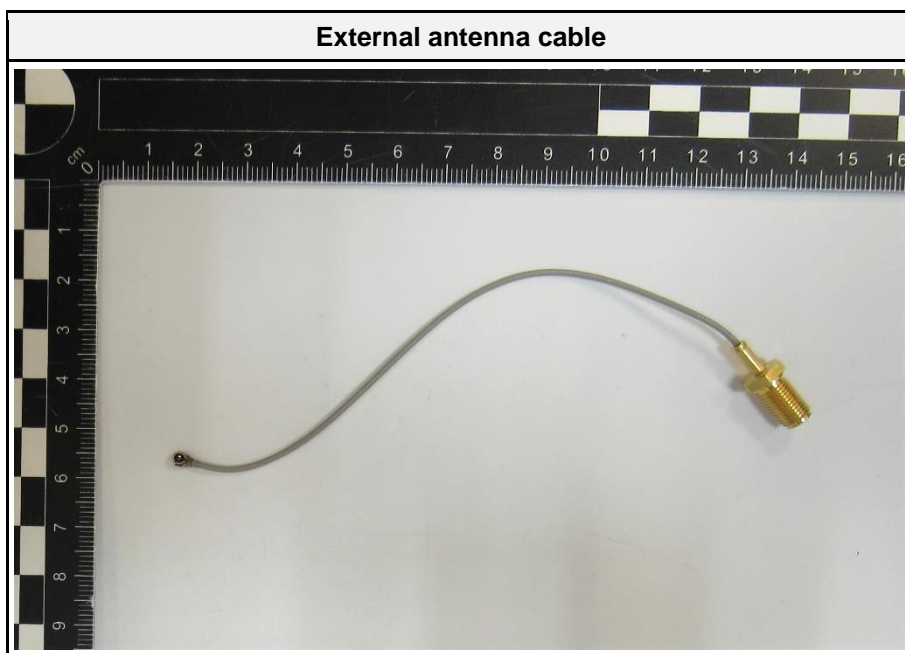
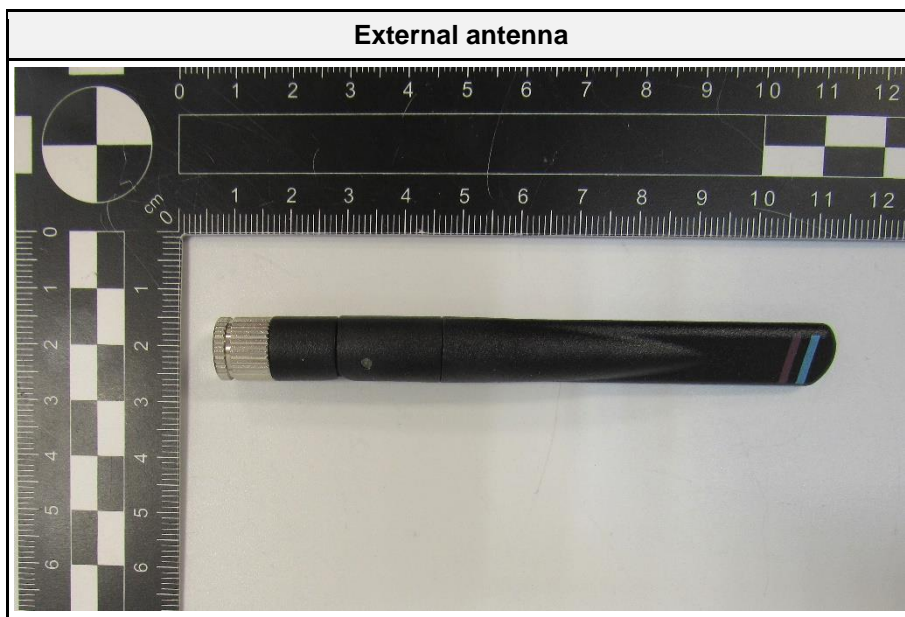
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1 Equipment (Test Item) Under Test

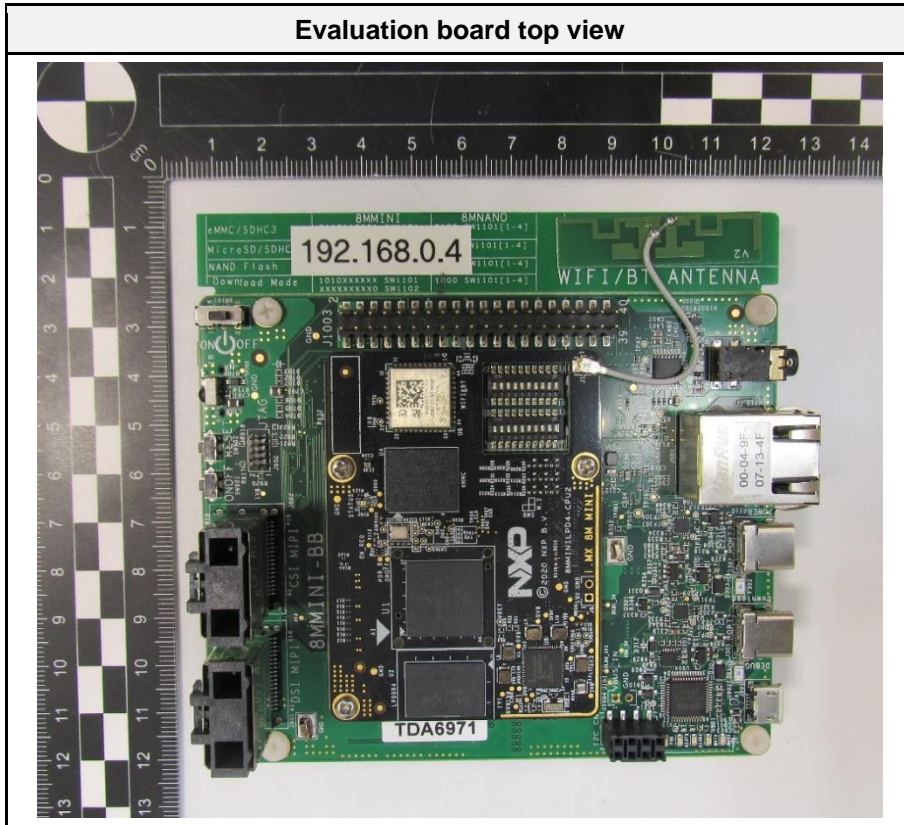
Description	MAYA-W2 Host-based multiradio module		
Model	MAYA-W260-00B		
Additional Model(s)	None		
Brand Name(s)	u-blox		
Sample Identification	EUT	Sample-ID	Serial Number
	Radiated with external antenna	45122	AM320BA3648370C0600
Hardware Version(s)	03		
Software Version(s)	1.0.0.39.1-18.80.1.p154.38		
FCC-ID	XPYMAYAW2A		
Equipment type	Radio Module		
Device type	Access point, Client		
Radio type	Transceiver		
Assigned frequency bands	5850 - 5895 MHz		
Radio technology	IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11n (HT40) IEEE 802.11ac (VHT20) IEEE 802.11ac (VHT40) IEEE 802.11ac (VHT80) IEEE 802.11ax (HE20) IEEE 802.11ax (HE40) IEEE 802.11ax (HE80)		
Modulation	BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM		
Number of antenna ports	1		
Transmit power control	Yes		
Antenna	Type	External	
	Model	ANT-DB1-RAF-SMA	
	Manufacturer	Linx Technologies	
	Gain	5.1 dBi (U-NII-4), (customer declaration)	
Supply Voltage (1st port)	V _{NOM}	3.3 VDC	
Supply Voltage (2nd port)	V _{NOM}	1.8 VDC	
Operating Temperature	T _{NOM}	20 °C	
AC/DC-Adaptor	Model	None	
Manufacturer	u-blox AG Zürcherstrasse 68 8800 Thalwil SWITZERLAND		

1.1 Photos – Equipment External

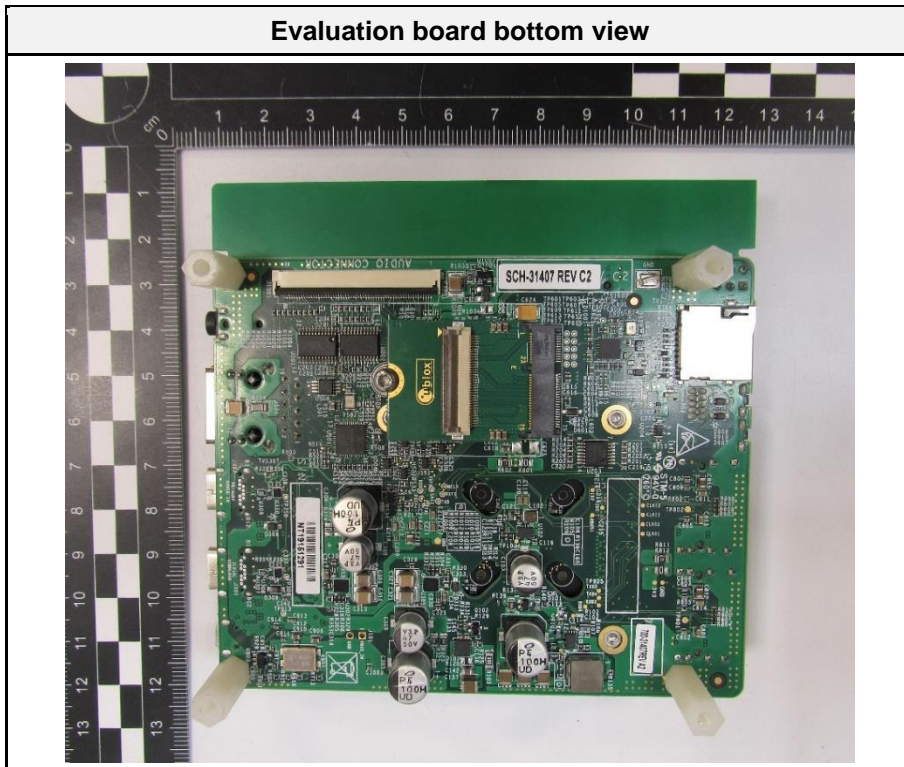


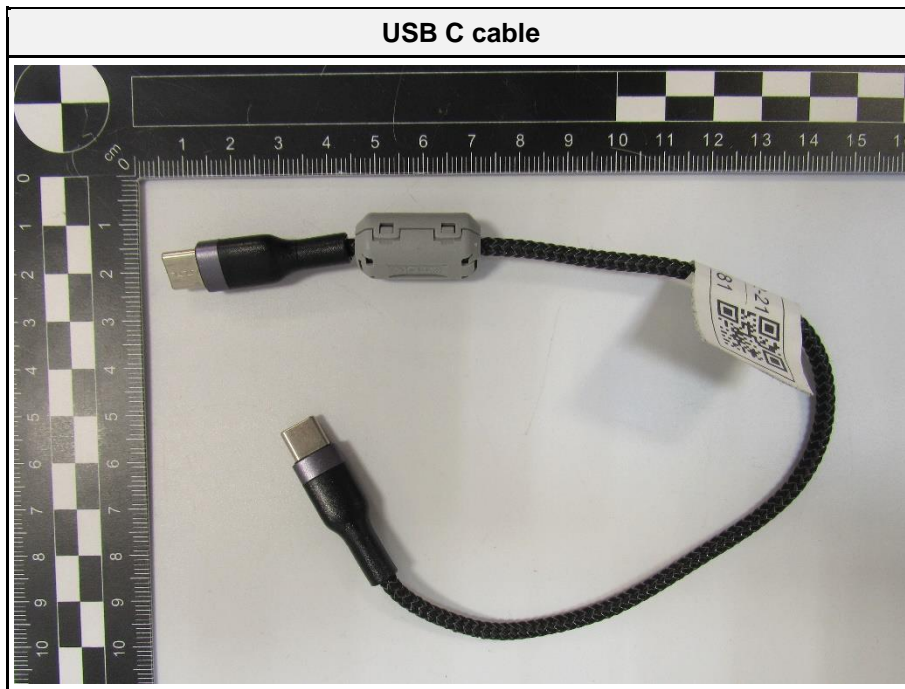
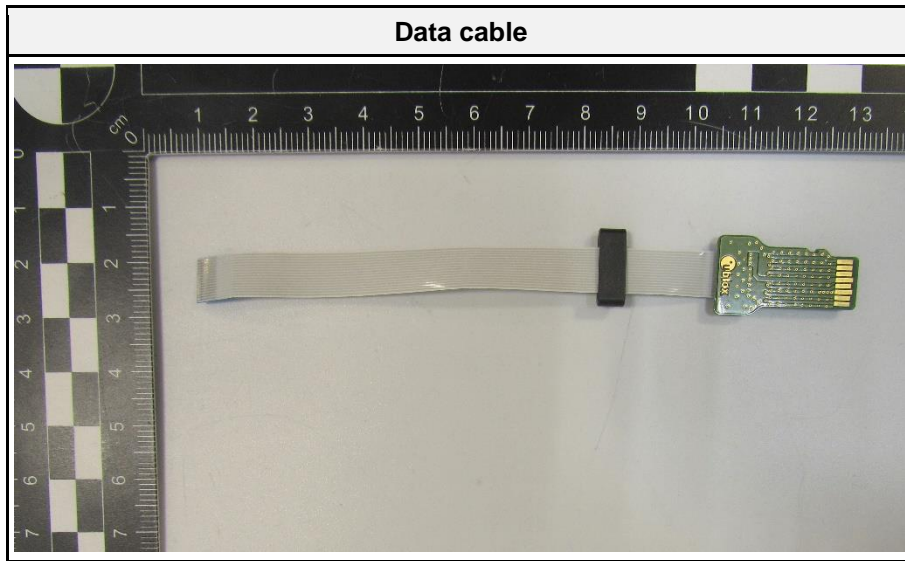


Evaluation board top view

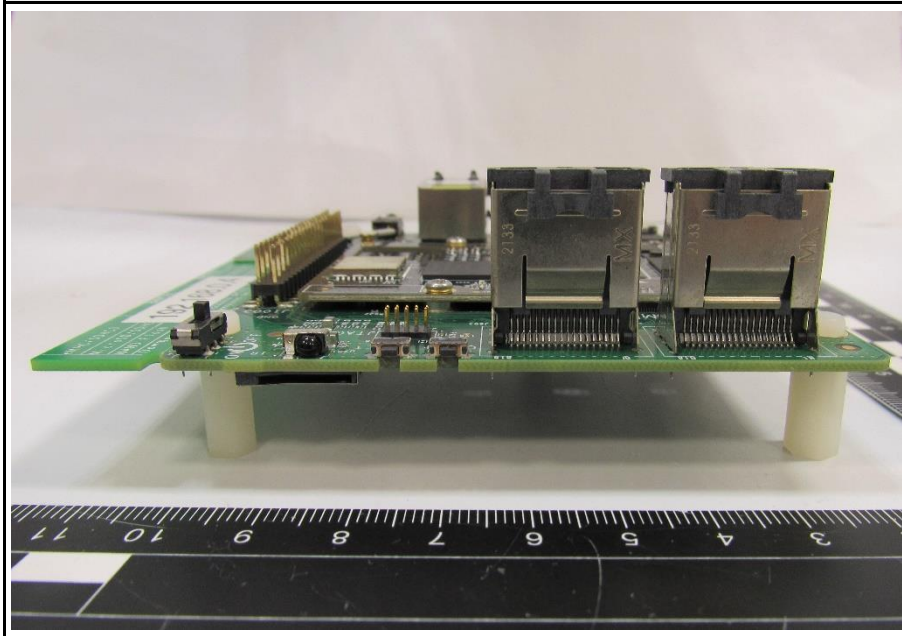


Evaluation board bottom view

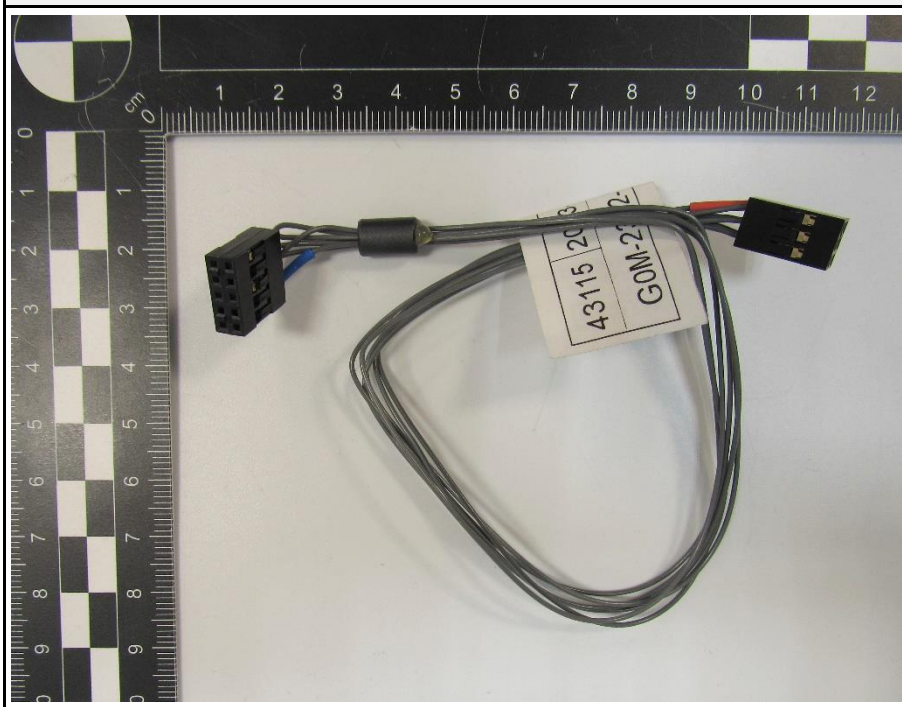




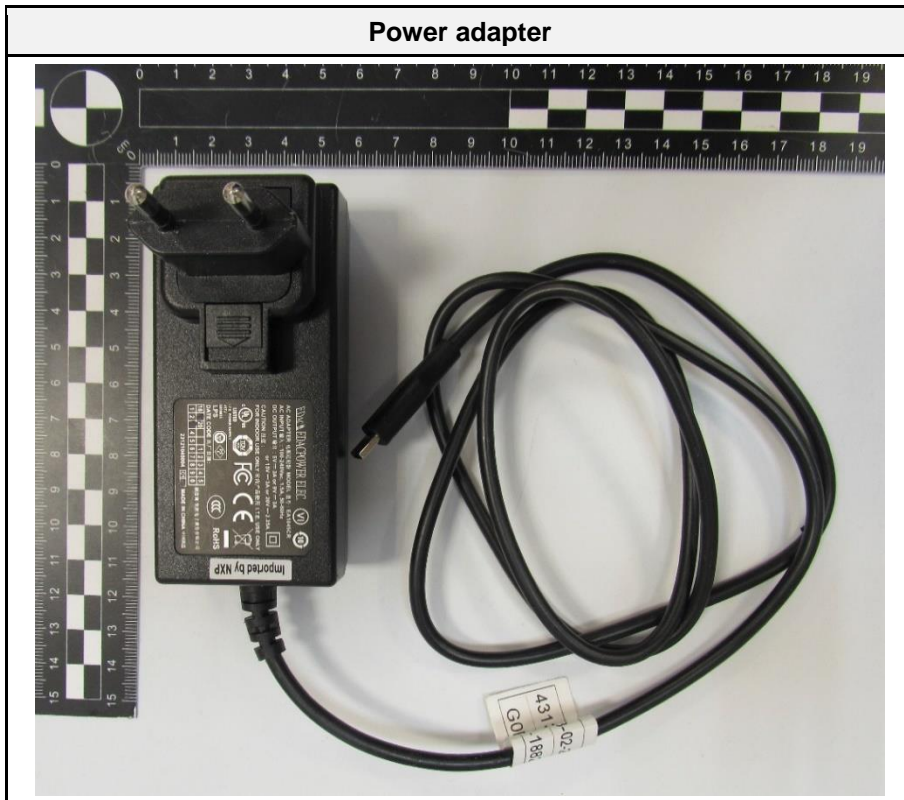
Evaluation board side view



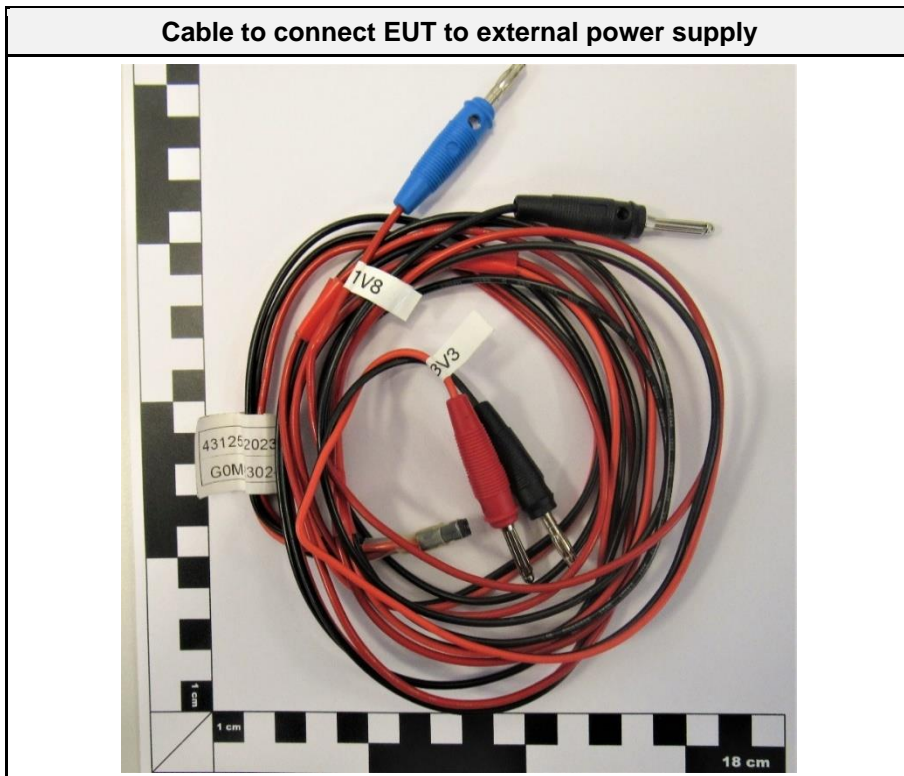
SPI Cable



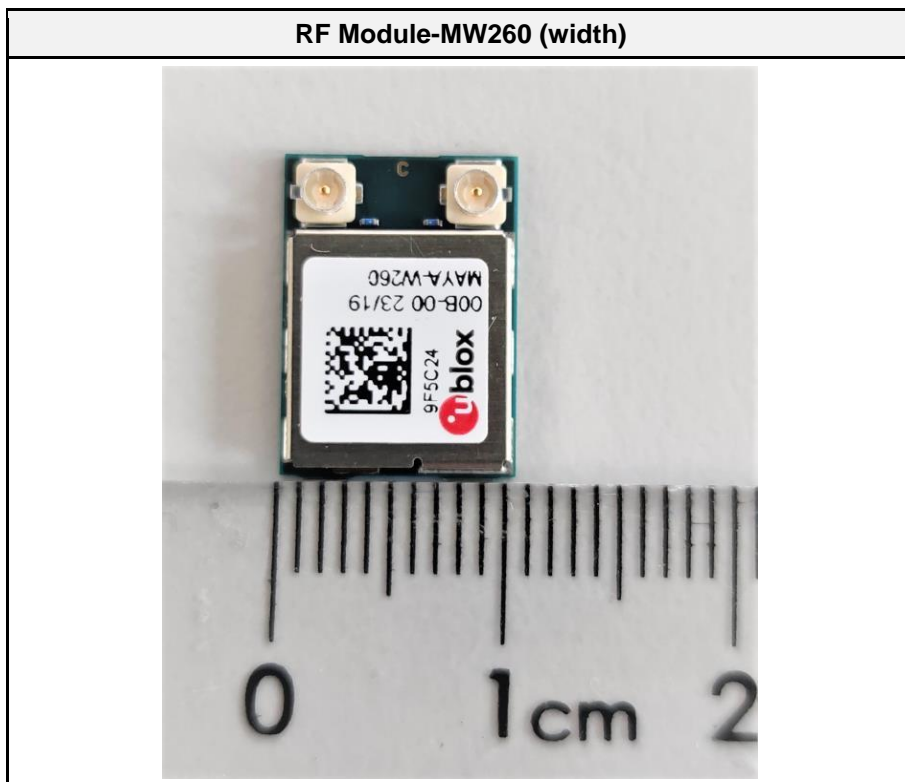
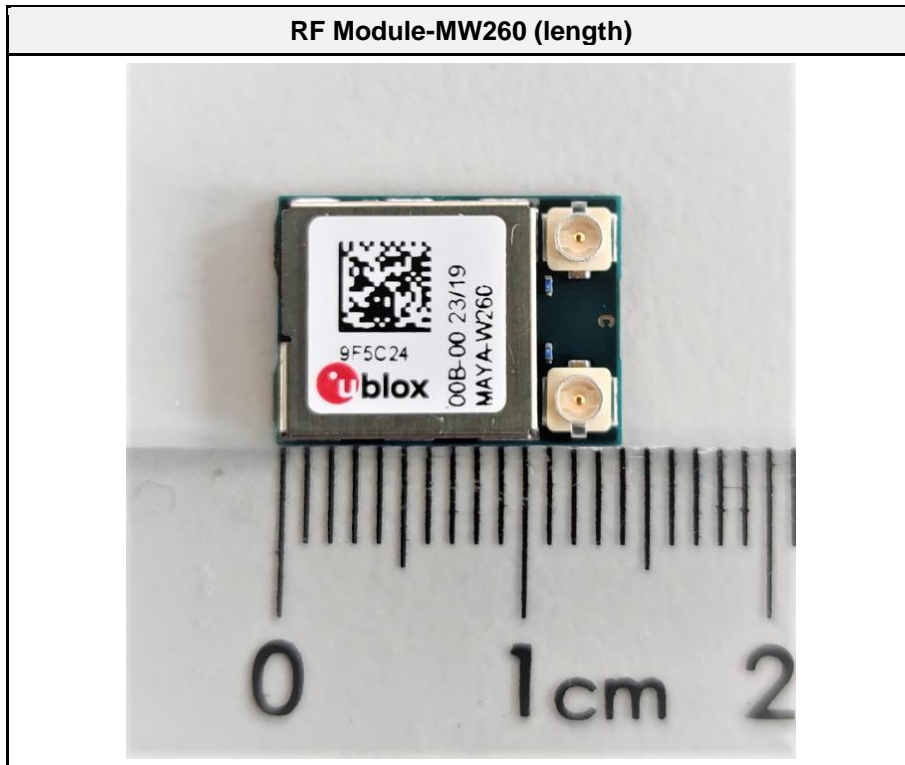
Power adapter



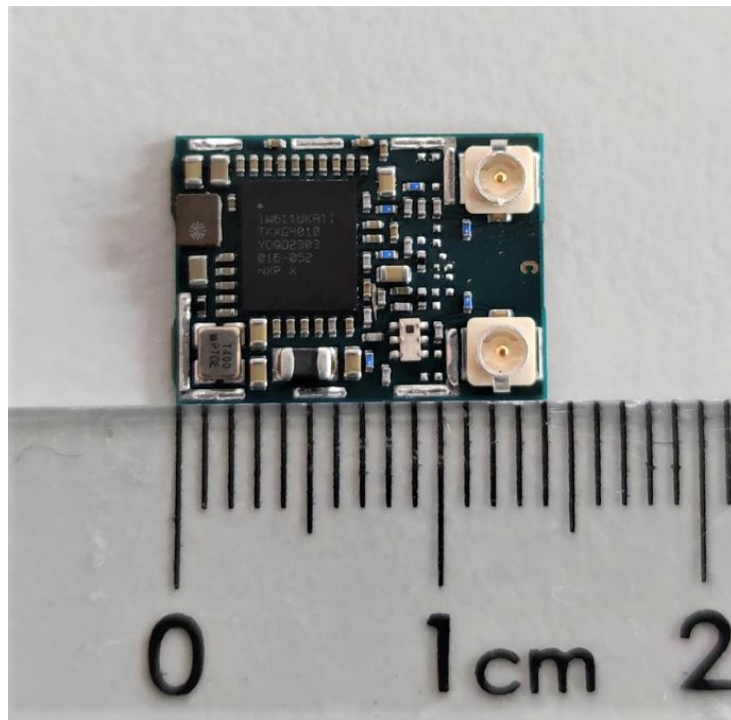
Cable to connect EUT to external power supply



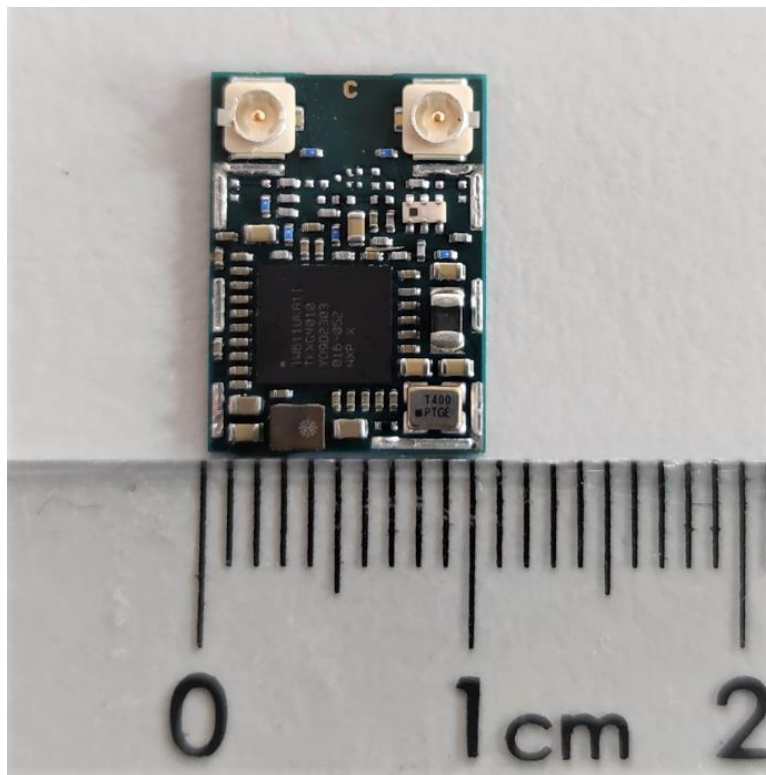
1.2 Photos – Equipment Internal



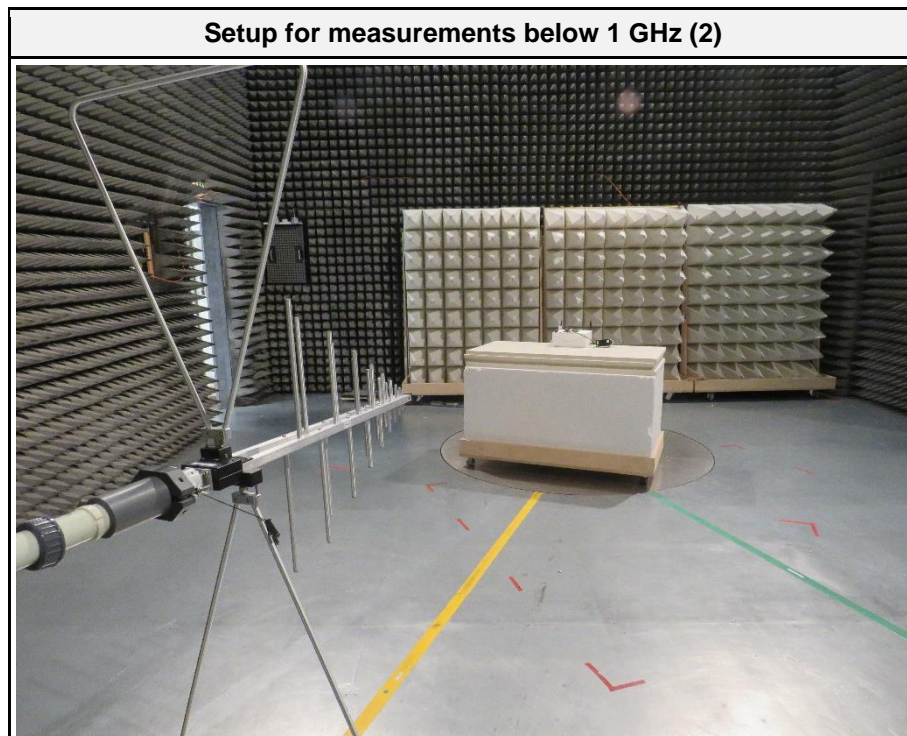
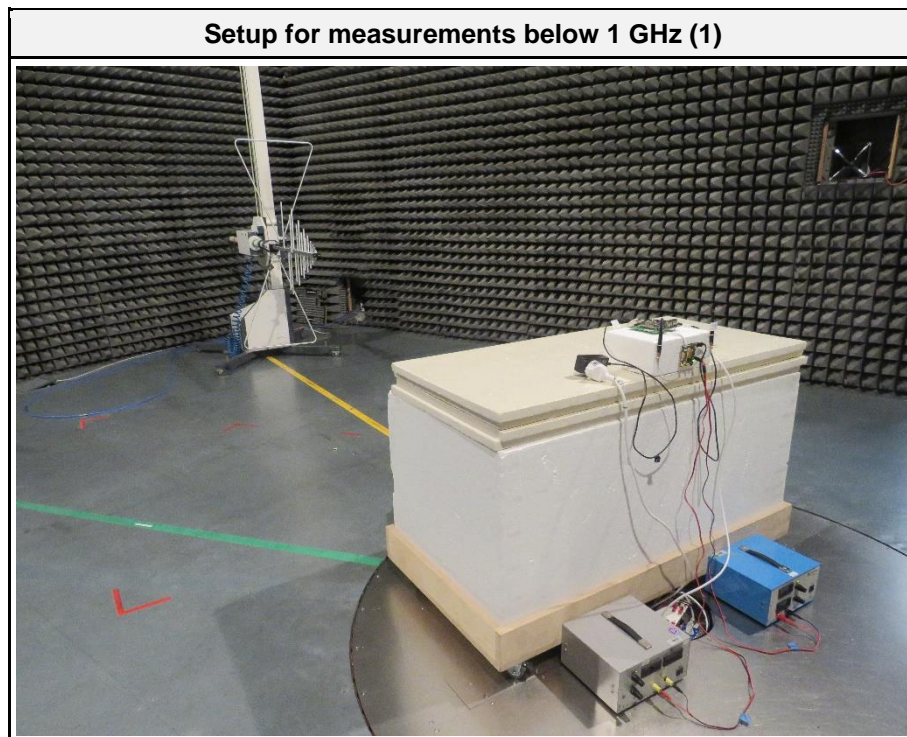
RF Module-MW260 unshielded (length)

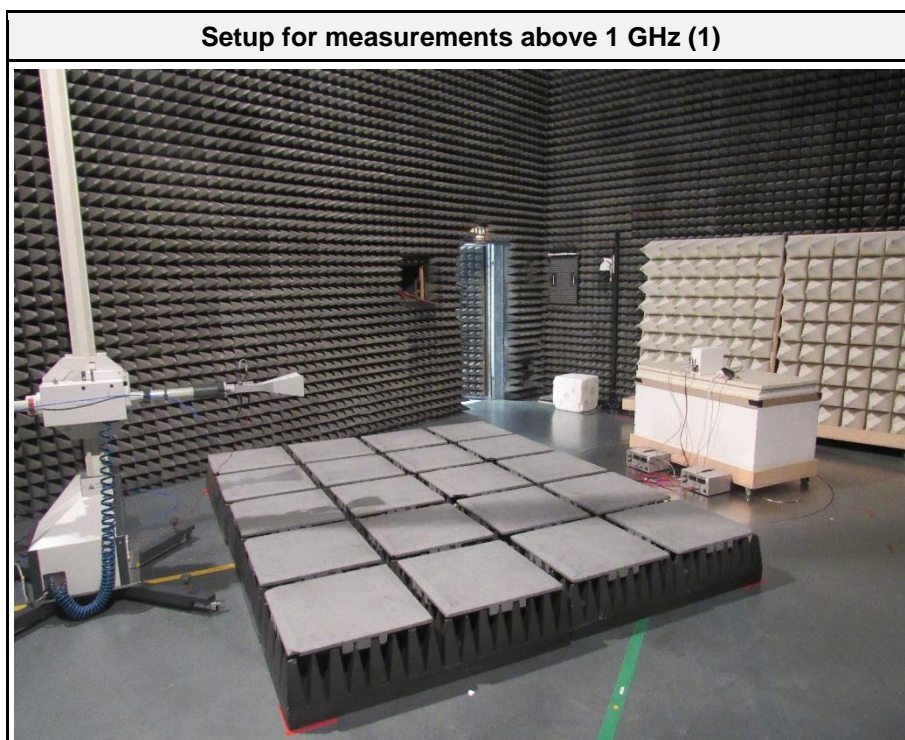
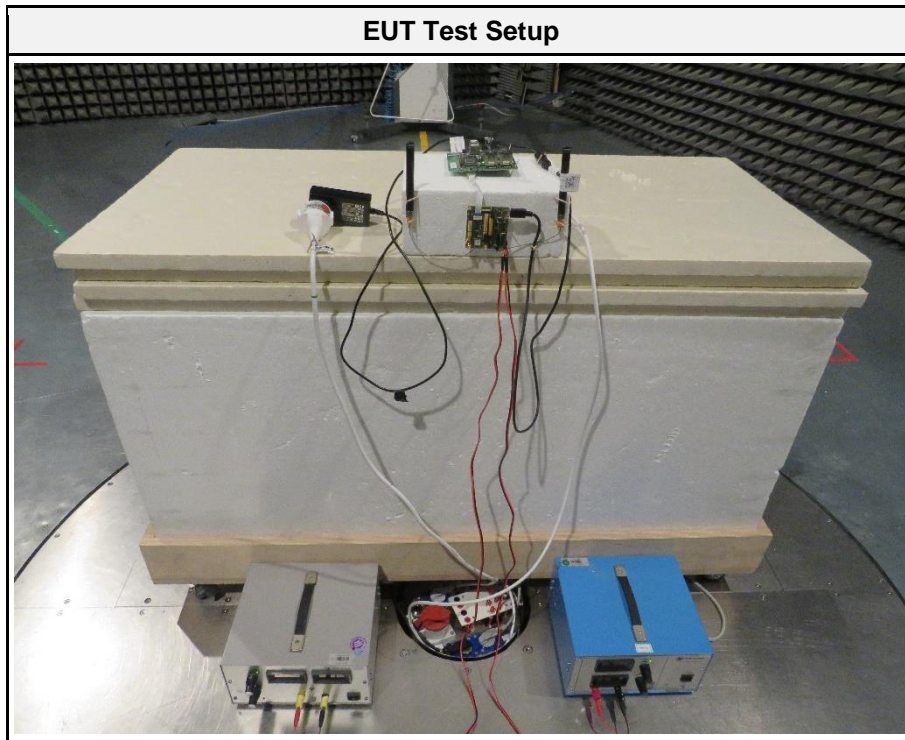


RF Module-MW260 unshielded (width)

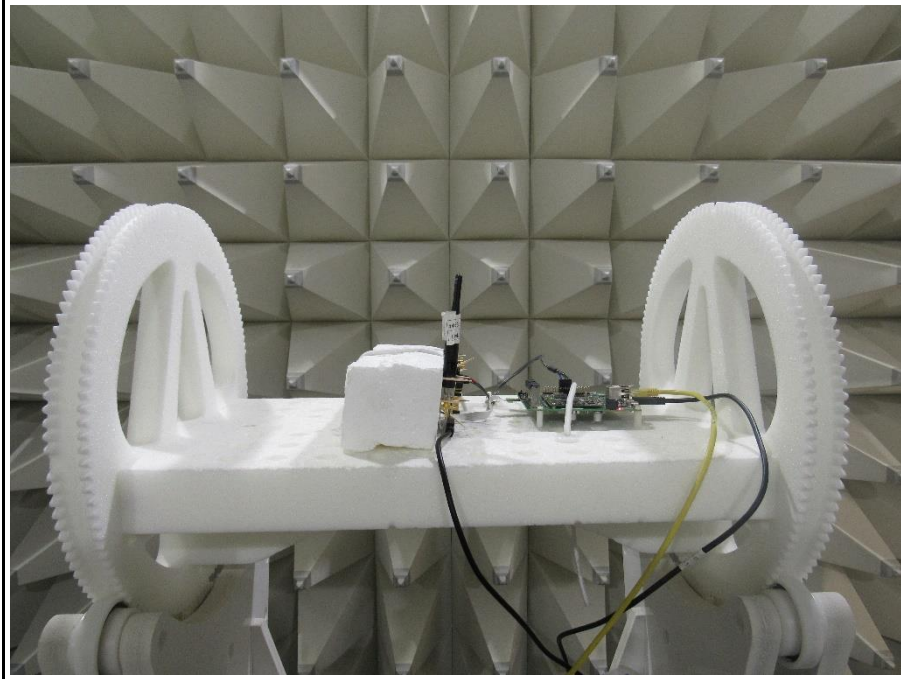


1.3 Photos – Test Setup





EUT Test Setup above 1 GHz



Setup for measurements above 1 GHz



1.4 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE	Notebook	Dell	Latitude E7250	For configuring test modes
AE	Evaluation Board	u-blox		
CBL	USB-C	---	---	Connection between evaluation board and EUT
CBL	Data cable	---	---	
CBL	SBI cable			
CBL	Ethernet	---	---	Connection between evaluation board and notebook
AE	AC/DC Adapter	EDACPOWER ELECT.	EA1045CR	To power the evaluation board
SFT	Terminal	Debian / Linux	---	For test mode activation
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
CBL	Connecting Cable			
SFT	Software			
Comment:				

1.5 Test Modes

Mode	Description
OFDM (IEEE 802.11a)	Mode = Transmit Bandwidth = 20 MHz Power Level = 15 (set by software) Duty cycle = 99.8% Data rate = 6 Mbps Packet length = 2000 Burst SIFS = 20 µs
HT20 (IEEE 802.11n)	Mode = Transmit Bandwidth = 20 MHz Power Level = 15 (set by software) Duty cycle = 99.2% Data rate = 6.5 Mbps (MCS 0) Packet length = 2000 Burst SIFS = 20 µs
HT40 (IEEE 802.11n)	Mode = Transmit Bandwidth = 40 MHz Power Level = 15 (set by software) Duty cycle = 99% Data rate = 13.5 Mbps (MCS 0) Packet length = 2000 Burst SIFS = 20 µs
VHT20 (IEEE 802.11ac)	Mode = Transmit Bandwidth = 20 MHz Power Level = 15 (set by software) Duty cycle = 99.9% Data rate = 6.5 Mbps (MCS 0) Packet length = 2000 Burst SIFS = 20 µs
VHT40 (IEEE 802.11ac)	Mode = Transmit Bandwidth = 40 MHz Power Level = 15 (set by software) Duty cycle = 96.7% Data rate = 13.5 Mbps (MCS 0) Packet length = 2000 Burst SIFS = 20 µs
VHT80 (IEEE 802.11ac)	Mode = Transmit Bandwidth = 80 MHz Power Level = 15 (set by software) Duty cycle = 92.6% Data rate = 29.3 Mbps (MCS 0) Packet length = 2000 Burst SIFS = 20 µs
HE 80 (IEEE 802.11ax)	Mode = Transmit Bandwidth = 80 MHz Power Level = 15 (set by software) Duty cycle = 91.3% Data rate = 13.5 Mbps (MCS 0) Packet length = 2000 Burst SIFS = 20 µs
Comment: The above settings were determined as a worst case, which found in the reference module test report "USRC23N389001" issued by "Eurofins E&E Wireless Taiwan Co., Ltd" on "2023-12-22".	

1.6 Test Frequencies

Designator	Mode	Channel	Frequency [MHz]
F1	Tx / Rx	169	5845
F2	Tx / Rx	173	5865
F3	Tx / Rx	177	5885
F4	Tx / Rx	167=165+169	5835
F5	Tx / Rx	175=173+177	5875
F6	Tx / Rx	171=165+169+173+177	5855

1.7 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:

Reading + AF	=	Net Reading	:	Net reading	-	Field strength limit	=	Margin
+21.5 dB μ V		+ 26 dB/m	:	47.5 dB μ V/m	-	- 57.0 dB μ V/m		= -9.5

1.8 Normative References

References	
Designator	Reference
KDB 789033	KDB 789033 D02 v02r01
ANSI C63.10	ANSI C63.10:2013

2 Result Summary

FCC 47 CFR Part 15E				
Product Standard Reference	Requirement	Reference Method	Result	Remarks
FCC 15.407(e)	6 dB bandwidth	KDB 789033 C.2	N/T	Note 1
FCC 15.407(a)(2),(a)(5),(h)(2)	26 dB bandwidth	KDB 789033 C.1	N/T	Note 1
FCC 15.407(a)	Maximum output power	KDB 789033 E	N/T	Note 1
FCC 15.407(a)	Transmit power control	KDB 789033 E	N/R	Required in 5250-5350 and 5470-5725 MHz bands. Not required for EIRP < 500 mW.
FCC 15.407(a)	Power spectral density	KDB 789033 F	N/T	Note 1
FCC 15.407(g)	Frequency stability	ANSI C63.10 6.8	N/T	Note 1
FCC 15.207	AC power line conducted emissions	ANSI C63.10 6.2	N/T	Note 1
FCC 15.407(b)	Transmitter radiated emissions	KDB 789033 G	PASS	Note 2
FCC 15.407(a)	Radiation pattern	KDB 789033 H	N/R	Required for outdoor access points
Remarks:				
Note 1: Class II permissive change. Based on the test data of the reference device, it is not required to be re-evaluated.				
Note 2: Spot-check of an additional model represent worse-case results.				
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 - Transmitter radiated emissions

3.1.1 Information

Test Information	
Reference	FCC 15.407(b)
Measurement Method	KDB 789033 G
Operator(s)	Md Abu Bakar Siddique
Date	2023-11-20 – 2023-11-22
Measurement uncertainty	5.1 %

3.1.2 Limits

Limits - Restricted frequency bands and below 1 GHz			
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

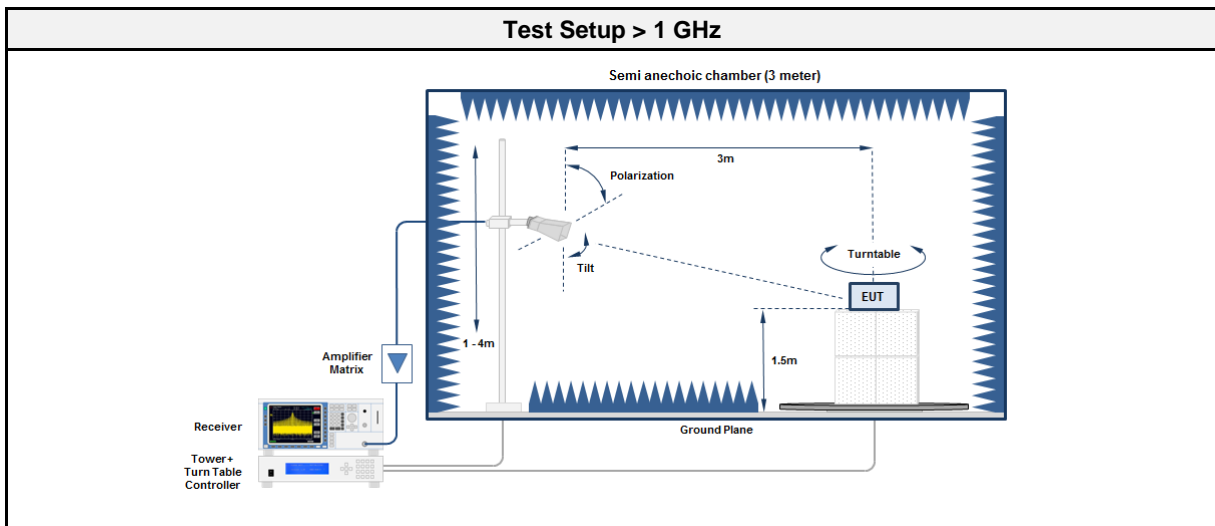
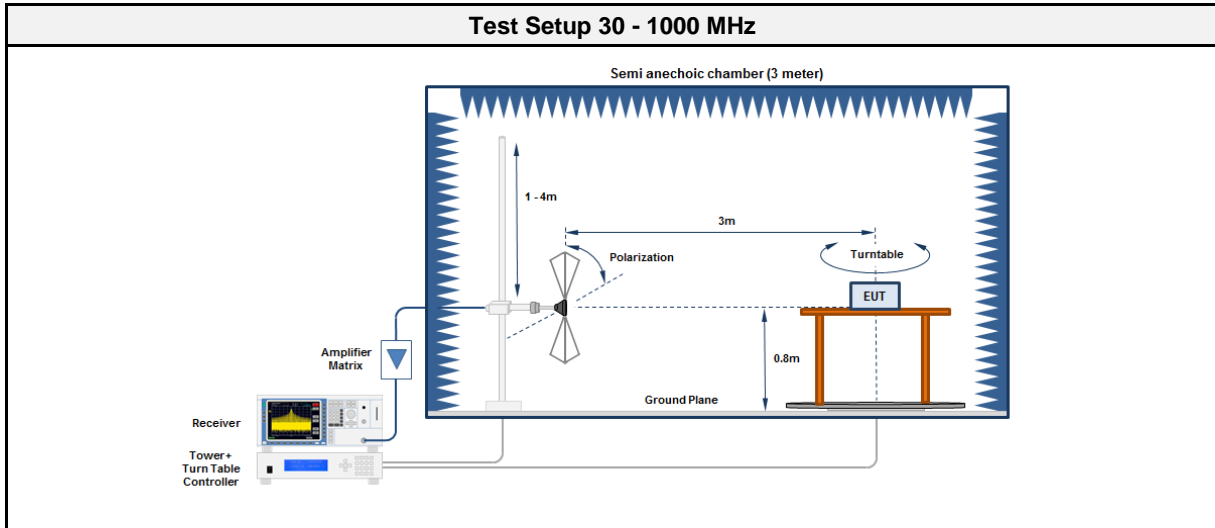
Limits - Outside restricted frequency bands above 1 GHz			
Frequency band [MHz]	Power limit [dBm EIRP]	Field strength limit [$\text{dB}\mu\text{V}/\text{m}$]	Measurement distance [m]
5150 - 5250	-27 dBm/MHz	68.2	3
5250 - 5350	-27 dBm/MHz	68.2	3
5470 - 5725	-27 dBm/MHz	68.2	3
5725 - 5850	-27 dBm/MHz @ ± 75 MHz from band edge	68.2	3
5725 - 5850	10 to -27 dBm/MHz @ ± 25 to ± 75 MHz from band edge	105.2 to 68.2	3
5725 - 5850	15.6 to 10 dBm/MHz @ ± 5 to ± 25 MHz from band edge	110.8 to 105.2	3
5725 - 5850	27 to 15.6 dBm/MHz @ ± 0 to ± 5 MHz from band edge	122.2 to 110.8	3
5850 - 5895	-27 dBm/MHz @ -75 MHz from band edge	68.2	3
5850 - 5895	10 to -27 dBm/MHz @ -25 to -75 MHz from band edge	105.2 to 68.2	3
5850 - 5895	15.6 to 10 dBm/MHz @ -5 to -25 MHz from band edge	110.8 to 105.2	3
5850 - 5895	27 to 15.6 dBm/MHz @ -0 to -5 MHz from band edge	122.2 to 110.8	3

Limits - Outside restricted frequency bands – Fixed outdoor devices			
Frequency band [MHz]	Average power limit [dBm EIRP]	Average field strength limit [dB μ V/m]	Measurement distance [m]
5850 - 5895	-27 dBm/MHz @ +0 MHz from band edge	68.2	3

Limits - Outside restricted frequency bands – indoor access point and subordinate devices			
Frequency band [MHz]	Average power limit [dBm EIRP]	Average field strength limit [dB μ V/m]	Measurement distance [m]
5850 - 5895	15 to -27 dBm/MHz @ +0 to +30 MHz from band edge	110.2 to 68.2	3
5850 - 5895	-27 dBm/MHz @ +30 MHz from band edge	68.2	3

Limits - Outside restricted frequency bands – indoor client devices			
Frequency band [MHz]	Average power limit [dBm EIRP]	Average field strength limit [dB μ V/m]	Measurement distance [m]
5850 - 5895	-5 to -27 dBm/MHz @ +0 to +30 MHz from band edge	90.2 to 68.2	3
5850 - 5895	-27 dBm/MHz @ +30 MHz from band edge	68.2	3

3.1.3 Setup



3.1.4 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	RadiMation	2016.1.10

Test Equipment 30 - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2022-11	2025-11
Spectrum analyzer	R&S	FSW43	EF00896	2023-08	2024-08
Antenna	Schwarzbeck	VULB 9168	EF01824	2022-10	2025-10

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC2	EF01616	2023-12	2024-12
Spectrum analyzer	R&S	FSW43	EF00896	2023-08	2024-08
Antenna	Schwarzbeck	BBHA 9120B	EF01678	2021-03	2024-03
Antenna	Schwarzbeck	HWRD 650	EF01679	2021-03	2024-03
Antenna	Amplifier Research	AT4560	EF00302	2021-06	2023-09
40GHz Standard Standard Gain Horn Antenna with Amplifier	Flann Microwave Ltd	22240-25 Amp. CBL26402075	EF00301	2023-01	2026-01

3.1.5 Procedure

Test Procedure 30 - 1000 MHz
<ol style="list-style-type: none">1. EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground2. EUT set to test mode3. The receiver is set to peak detection with max hold4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m5. All significant emissions are measured again using the corresponding final detector

Test Procedure > 1 GHz
<ol style="list-style-type: none">1. EUT is placed on a non conducting support at the center of a turn table 1.5 m above the ground2. EUT set to test mode3. The receiver is set to peak detection with max hold4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m5. All significant emissions are measured again using the corresponding final detector

3.1.6 Results

Test Results – OFDM						
Channel [MHz]	Emission [MHz]	Level [dB μ V/m]	Det.	Pol.	Limit [dB μ V/m]	Margin [dB]
5865	5895	58.84	pk	ver	89.89	-31.05
5865	7690	51.70	pk	ver	74.00	-22.30
5845	73.456	25.00	pk	ver	40.00	-15.03
5845	5895	48.79	pk	ver	89.84	-41.05
5845	39897	58.14	pk	hor	74.00	-15.86
5845	39897	50.31	RMS	hor	54.00	-03.69
5885	113.0967	33.00	pk	ver	43.50	-10.52
5885	5895	83.96	pk	ver	90.15	-06.19
5885	7691	50.97	pk	ver	74.00	-23.03
5885	39893	57.70	pk	ver	74.00	-16.30
5885	39893	50.25	RMS	ver	54.00	-03.75

Test Results – HT40						
Channel [MHz]	Emission [MHz]	Level [dB μ V/m]	Det.	Pol.	Limit [dB μ V/m]	Margin [dB]
5875	5918	70.72	pk	ver	73.27	-02.55
5875	7646	51.76	pk	ver	74.00	-22.24
5875	39896	56.32	pk	ver	74.00	-17.68
5875	39896	49.97	RMS	ver	54.00	-04.03
5835	5896	58.09	pk	ver	89.27	-31.18
5835	39883	57.80	pk	ver	74.00	-16.20
5835	39883	50.10	RMS	ver	54.00	-03.90

Test Results – HE80						
Channel [MHz]	Emission [MHz]	Level [dB μ V/m]	Det.	Pol.	Limit [dB μ V/m]	Margin [dB]
5855	5895	77.09	pk	ver	90.20	-13.11
5855	7743	52.41	pk	ver	74.00	-21.59
5855	39904	56.91	pk	ver	74.00	-17.09
5855	39904	49.95	RMS	ver	54.00	-04.05

ANNEX A Transmitter spurious emissions

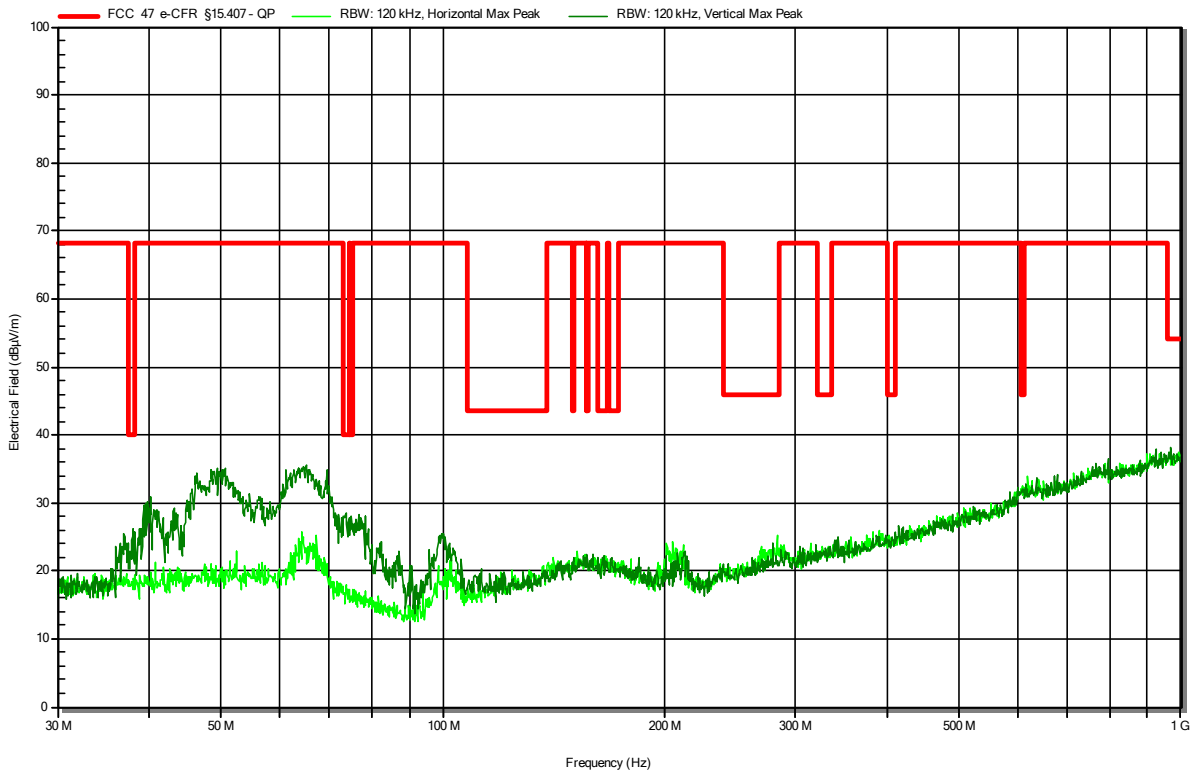
UNII-4

Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11a, 5865 MHz, OFDM, 6Mbps
 Test Date: 2023-11-20
 Note: EUT horizontal

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RadiMation

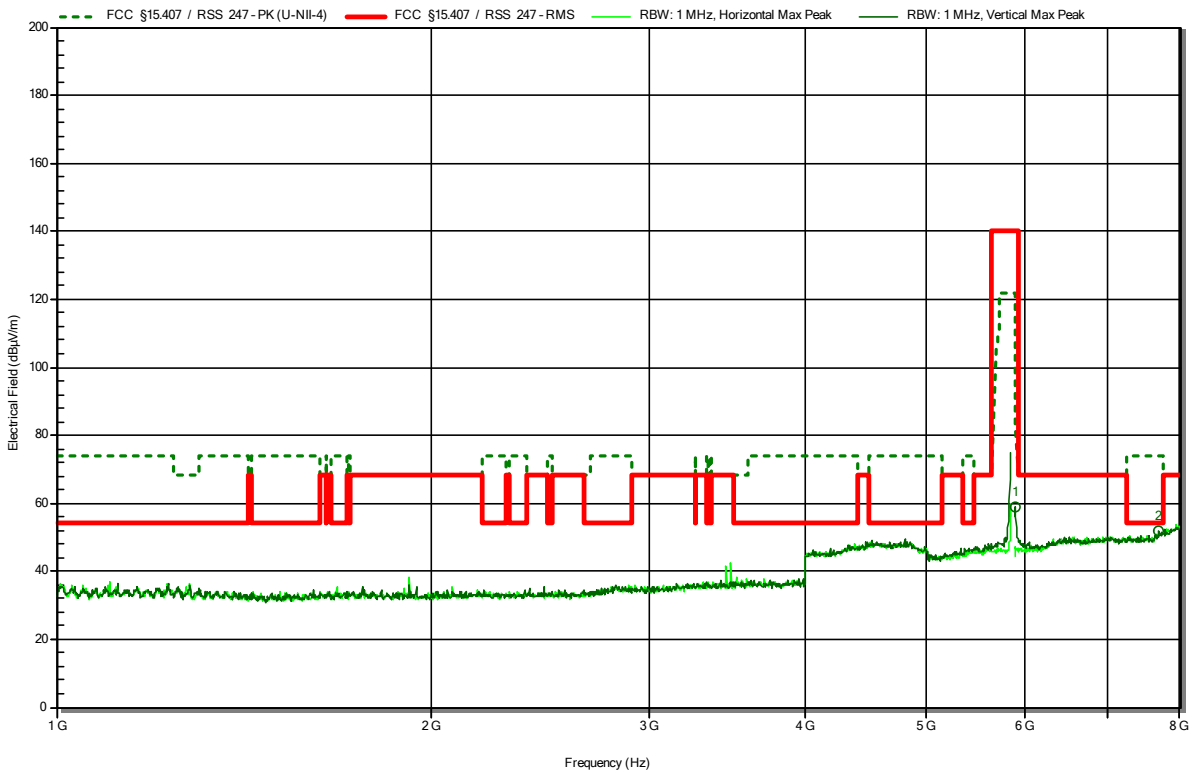


Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11a, 5865 MHz, OFDM, 6Mbps
 Test Date: 2023-11-22
 Note: EUT horizontal

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RadiMation



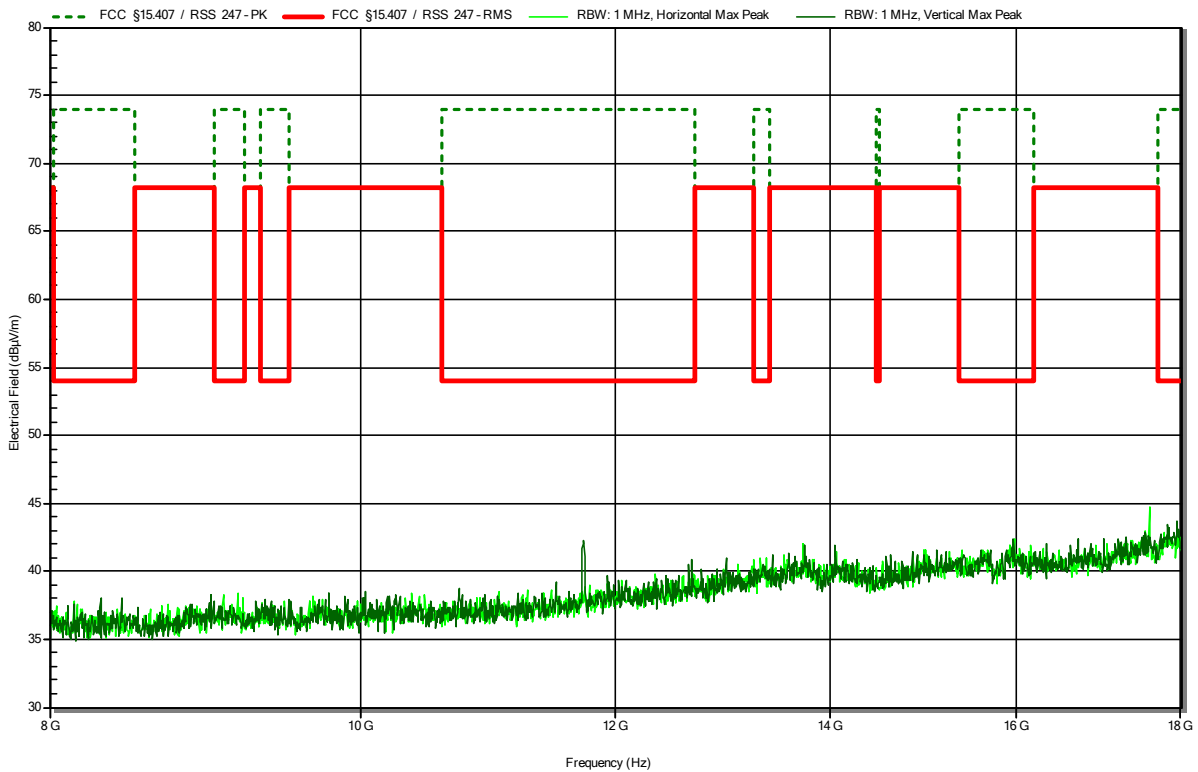
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
5.895 GHz	58.84 dBµV/m	89.89 dBµV/m	-31.05 dB	Pass	Vertical
7.69 GHz	51.7 dBµV/m	74 dBµV/m	-22.3 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11a, 5865 MHz, OFDM, 6Mbps
 Test Date: 2023-11-22
 Note: EUT horizontal

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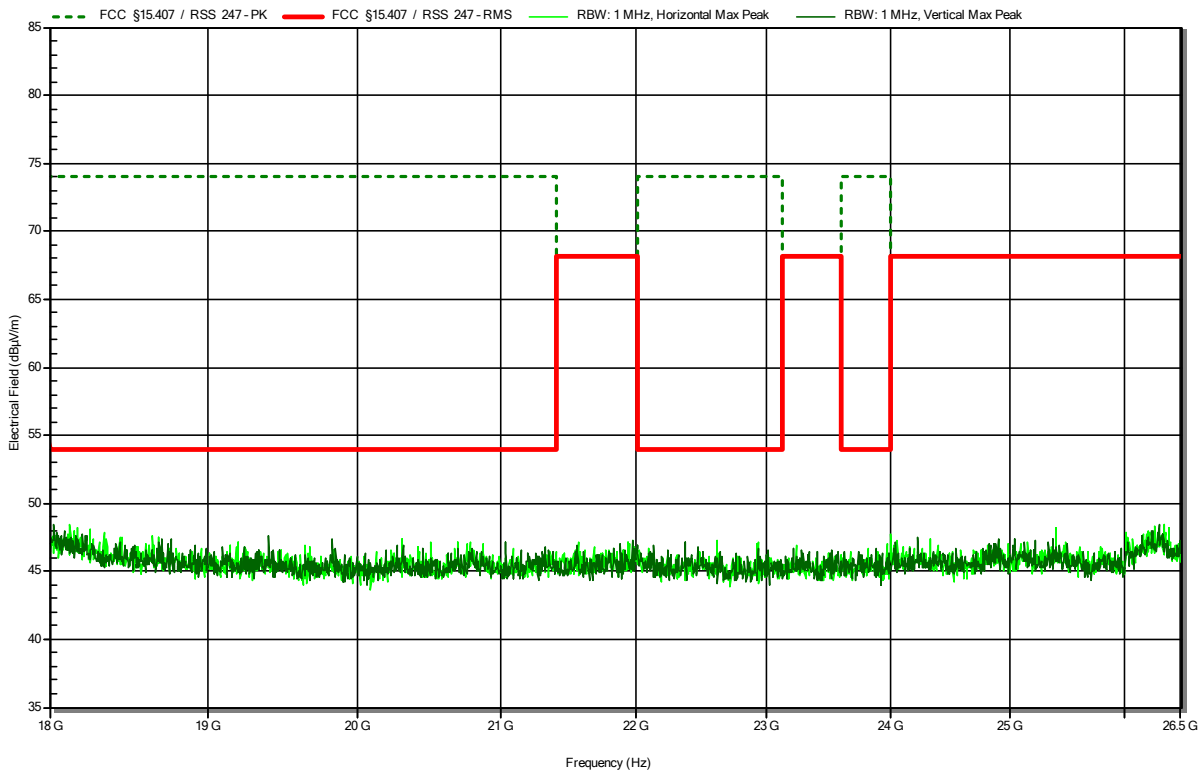
RadiMation



Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11a, 5865 MHz, OFDM, 6Mbps
 Test Date: 2023-11-22
 Note: EUT horizontal

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RadiMation

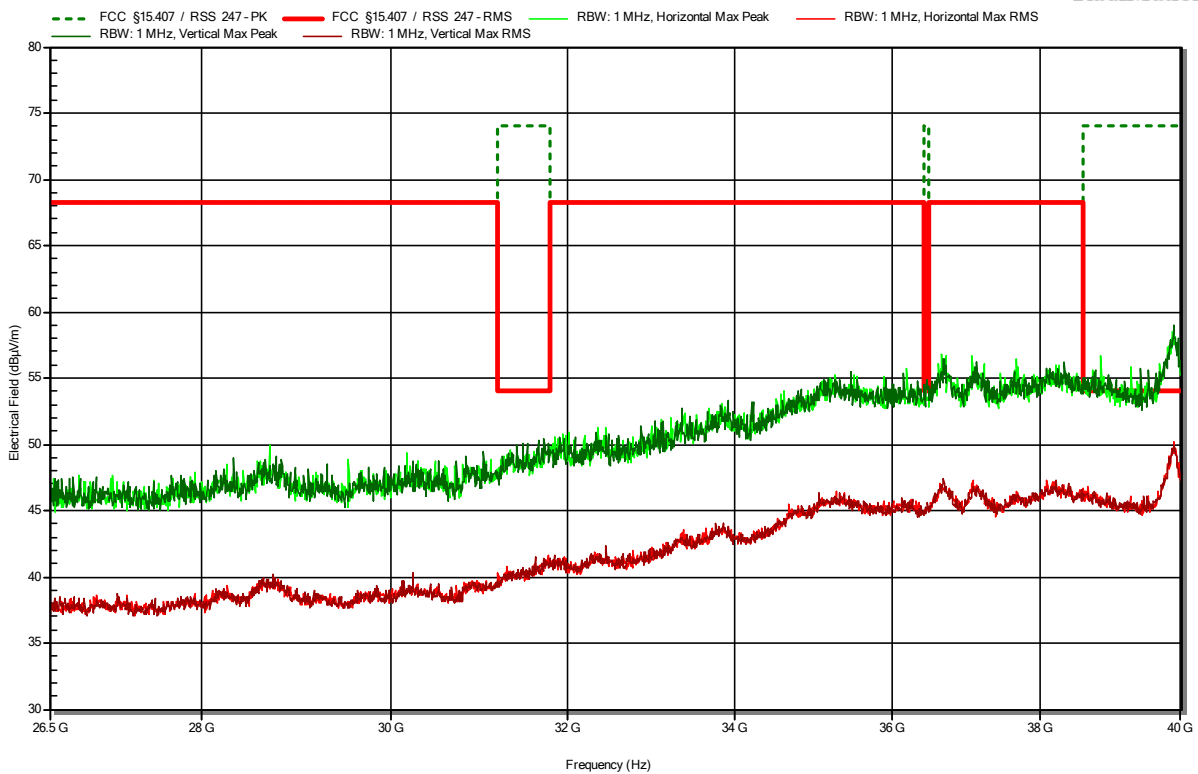


Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Flann 22240-25
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11a, 5865 MHz, OFDM, 6Mbps
 Test Date: 2023-11-22
 Note: EUT horizontal

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RadiMation

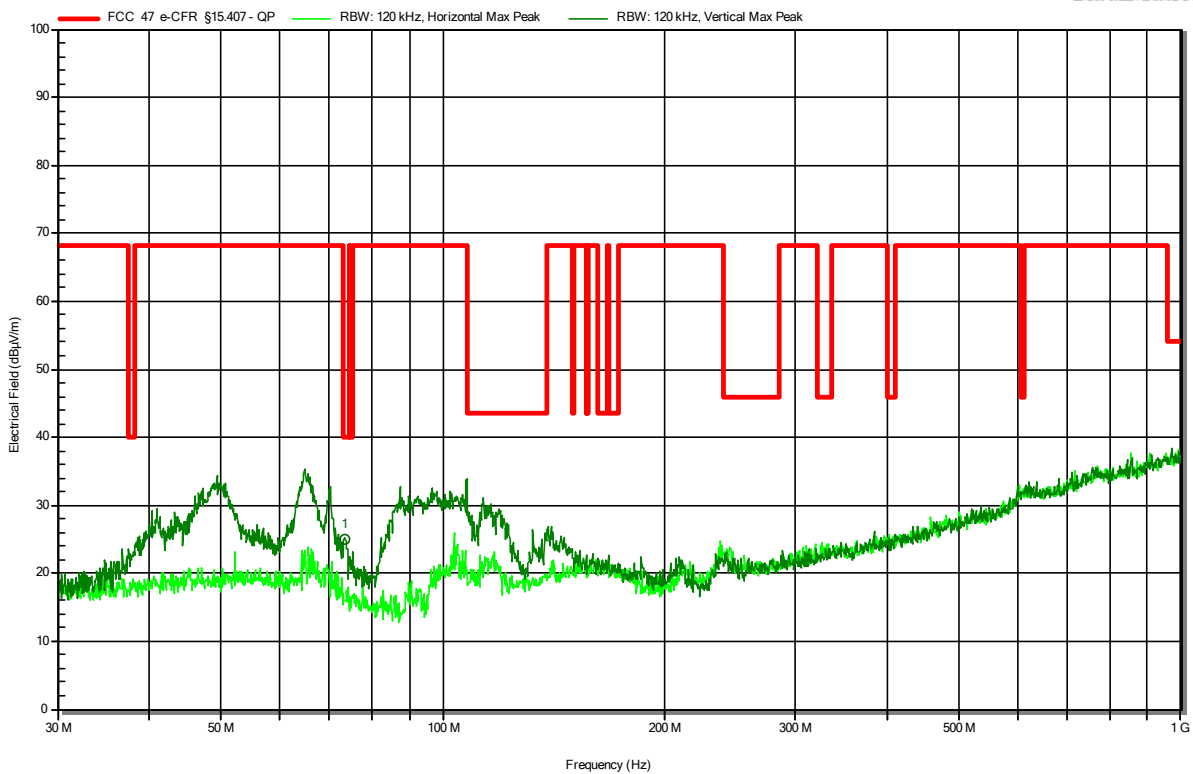


Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11a, 5845 MHz, OFDM, 6Mbps
 Test Date: 2023-11-22
 Note: EUT horizontal

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RadiMation



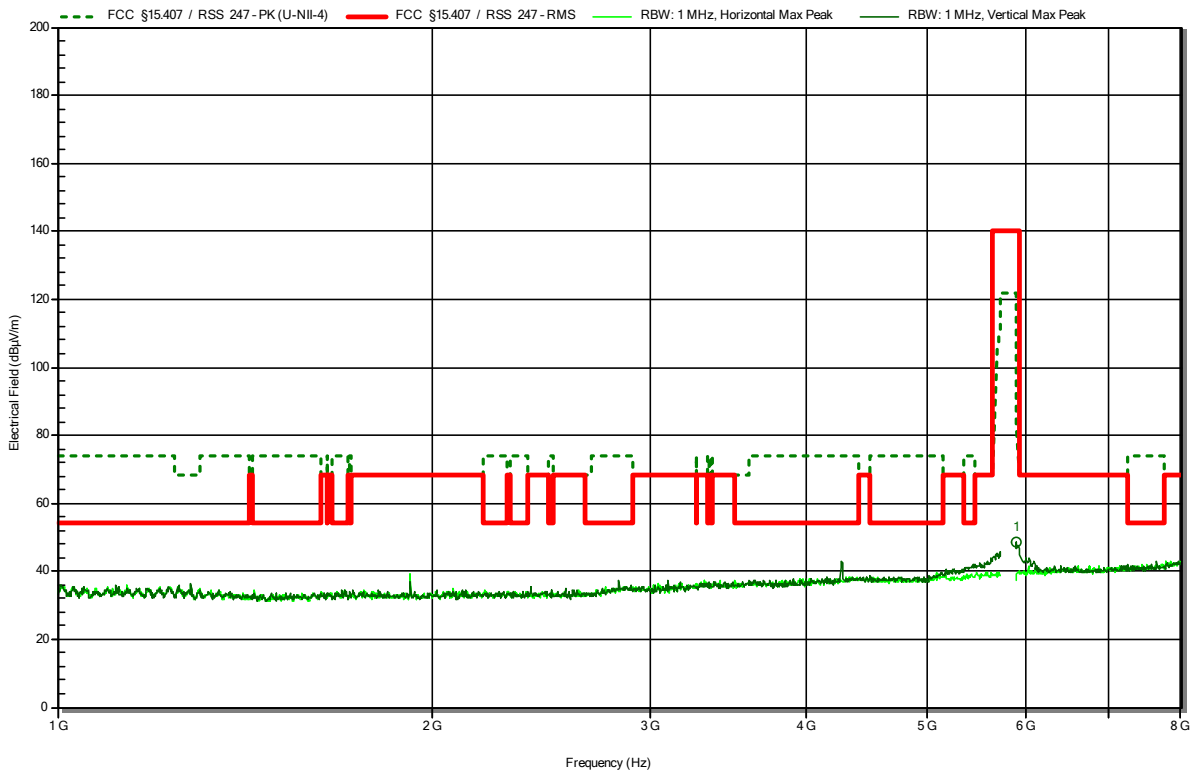
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
73.456 MHz	25 dBµV/m	40 dBµV/m	-15.03 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11a, 5845 MHz, OFDM, 6Mbps
 Test Date: 2023-11-21
 Note: EUT horizontal

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RadiMation

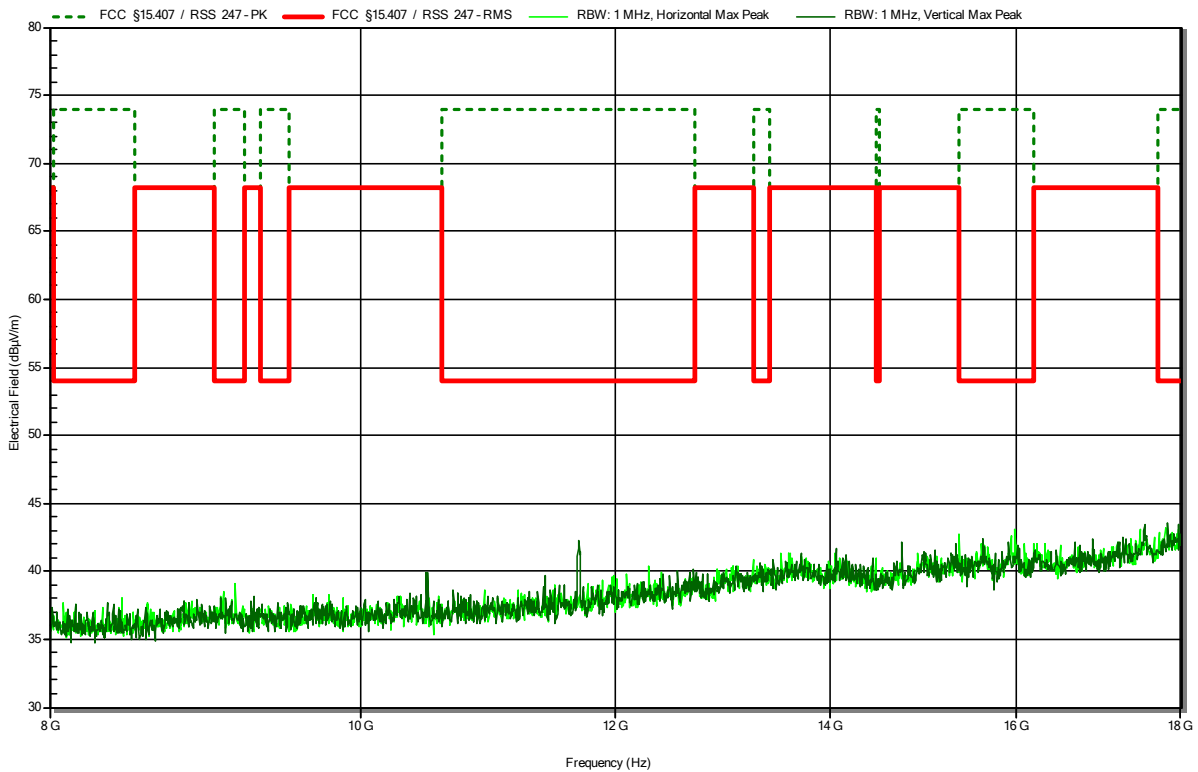


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
5.895 GHz	48.79 dBµV/m	89.84 dBµV/m	-41.05 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11a, 5845 MHz, OFDM, 6Mbps
 Test Date: 2023-11-22
 Note: EUT horizontal

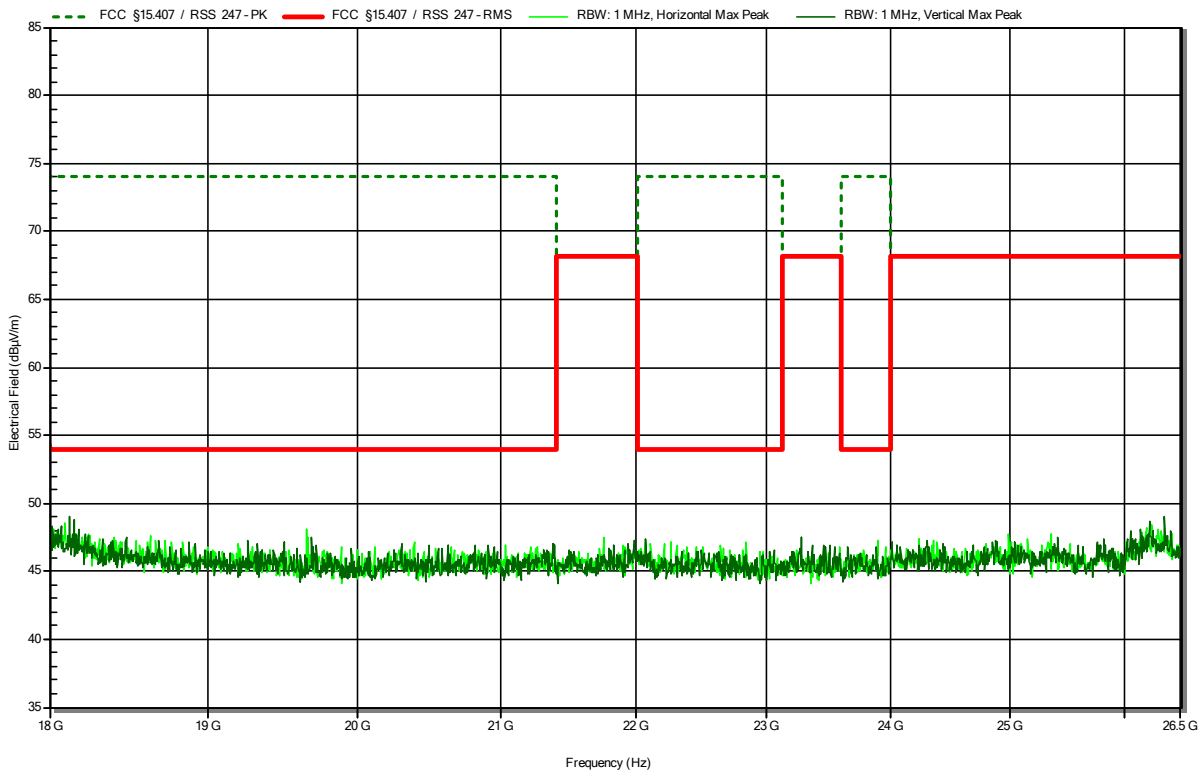
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Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11a, 5845 MHz, OFDM, 6Mbps
 Test Date: 2023-11-22
 Note: EUT horizontal

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RadiMation

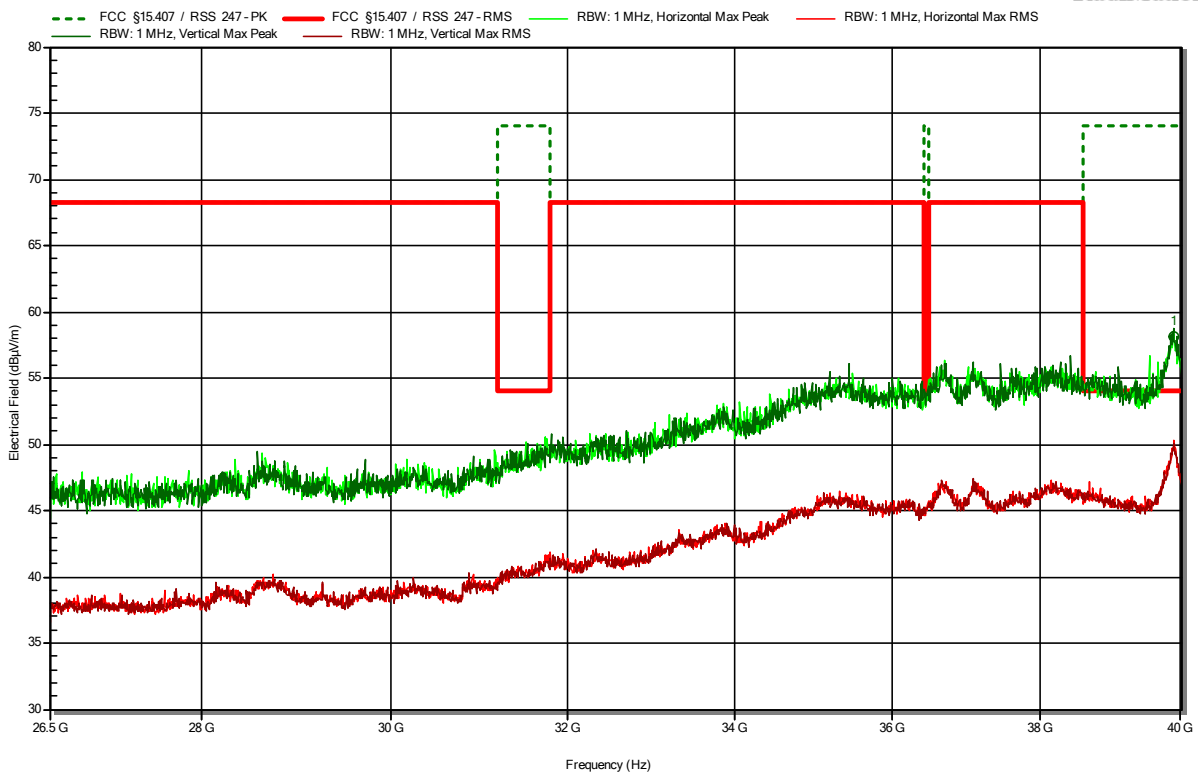


Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Flann 22240-25
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11a, 5845 MHz, OFDM, 6Mbps
 Test Date: 2023-11-22
 Note: EUT horizontal

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RadiMation



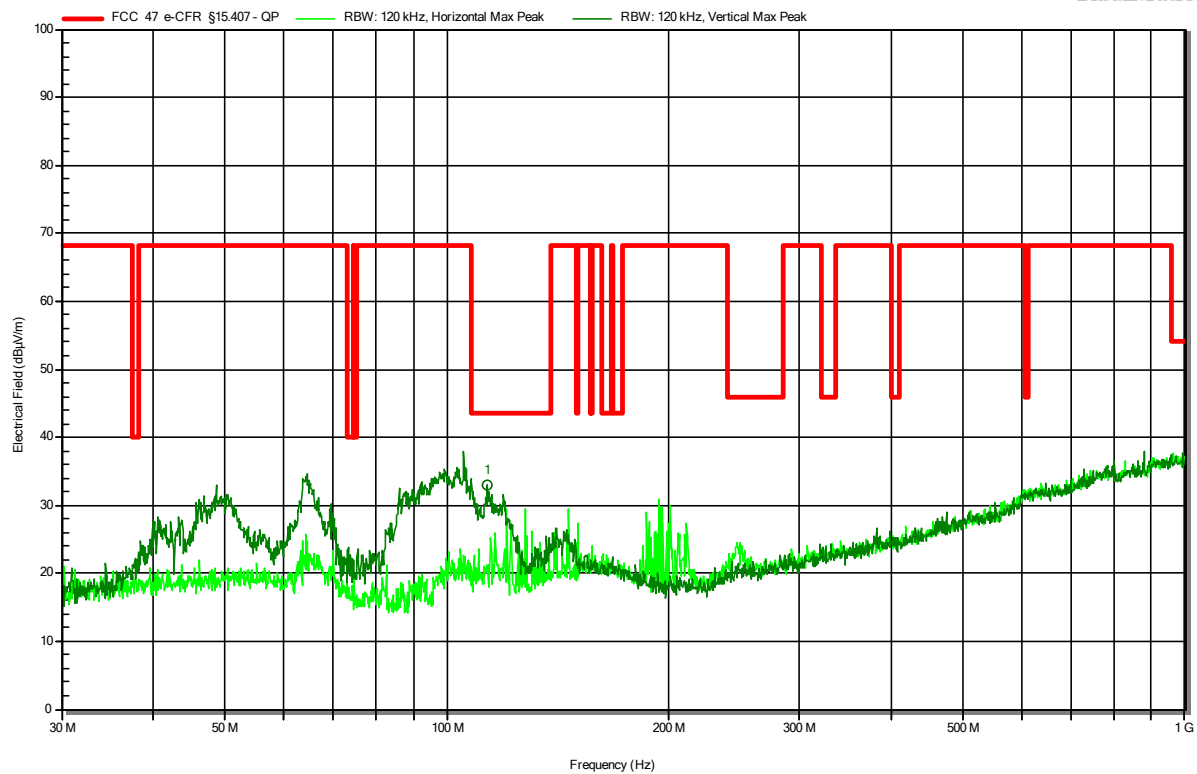
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
39.897 GHz	58.14 dBµV/m	74 dBµV/m	-15.86 dB	Pass	Horizontal
Frequency	RMS	RMS Limit	RMS Difference	RMS Status	Polarization
39.897 GHz	50.31 dBµV/m	54 dBµV/m	-3.69 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11a, 5885 MHz, OFDM, 6Mbps
 Test Date: 2023-11-22
 Note: EUT horizontal

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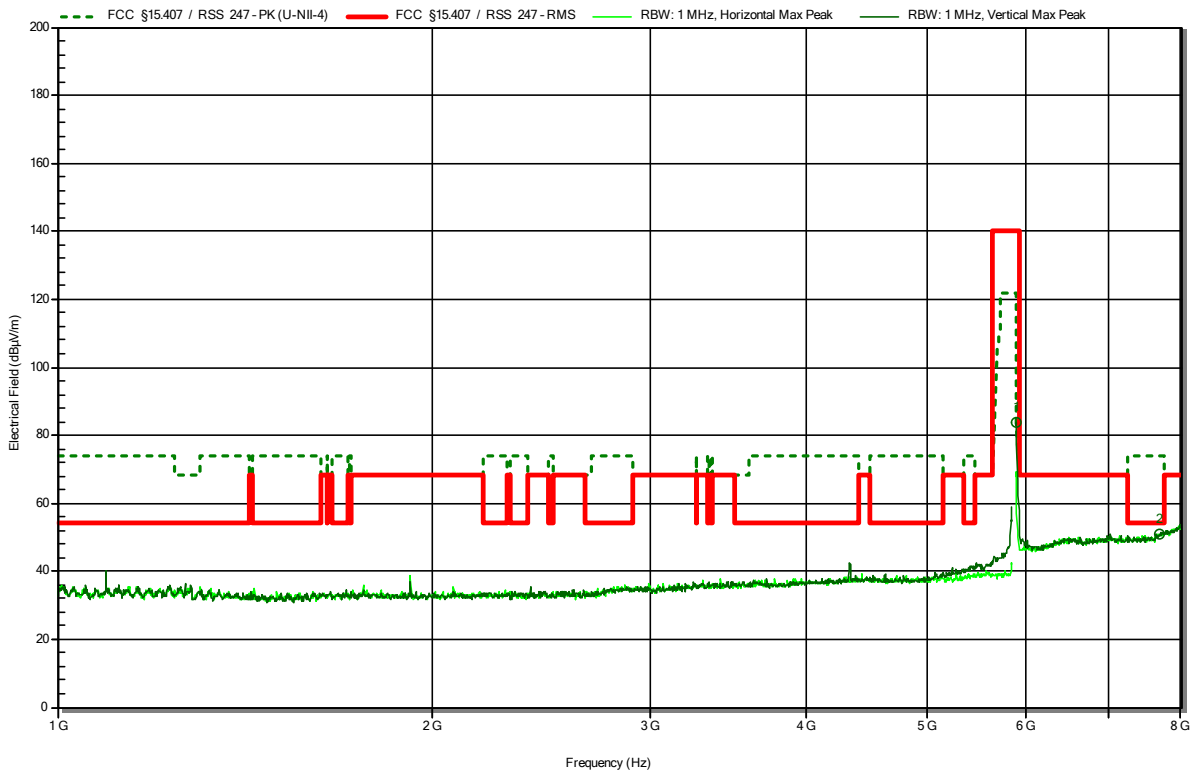
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
113.0967 MHz	33 dBµV/m	43.5 dBµV/m	-10.52 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11a, 5885 MHz, OFDM, 6Mbps
 Test Date: 2023-11-21
 Note: EUT horizontal

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RadiMation



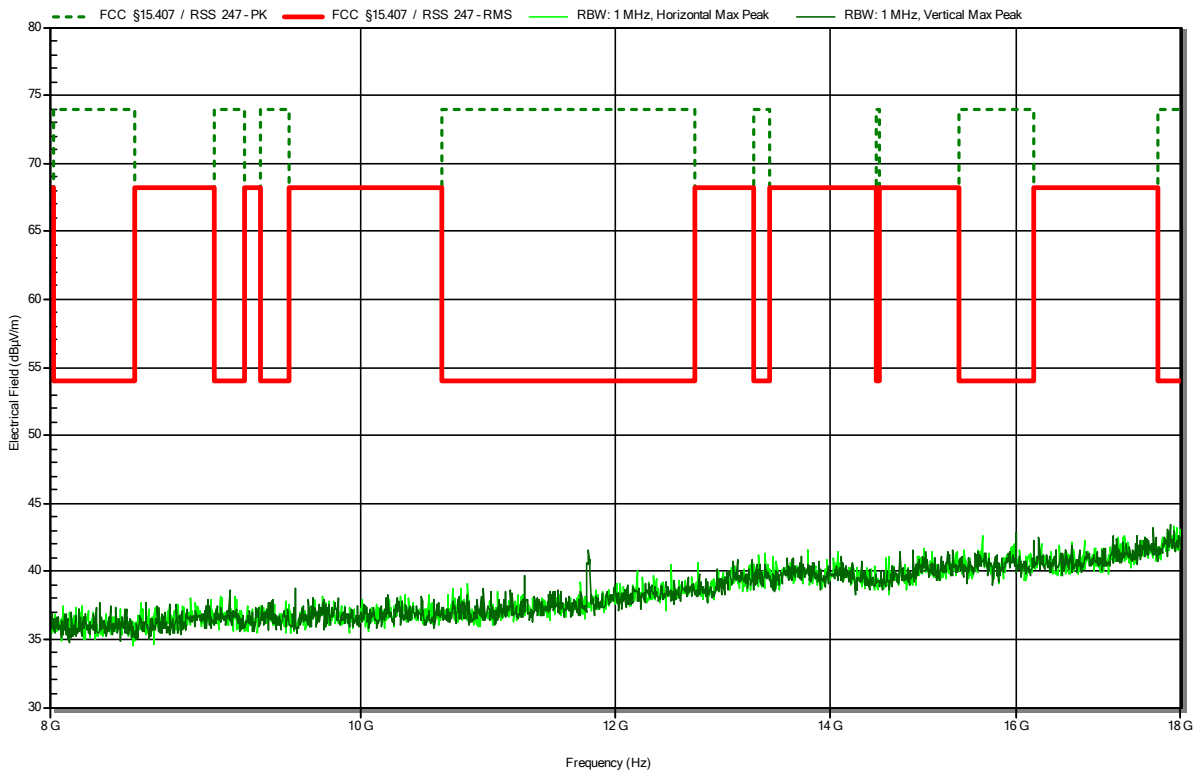
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
5.895 GHz	83.96 dBµV/m	90.15 dBµV/m	-6.19 dB	Pass	Vertical
7.691 GHz	50.97 dBµV/m	74 dBµV/m	-23.03 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11a, 5885 MHz, OFDM, 6Mbps
 Test Date: 2023-11-22
 Note: EUT horizontal

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RadiMation

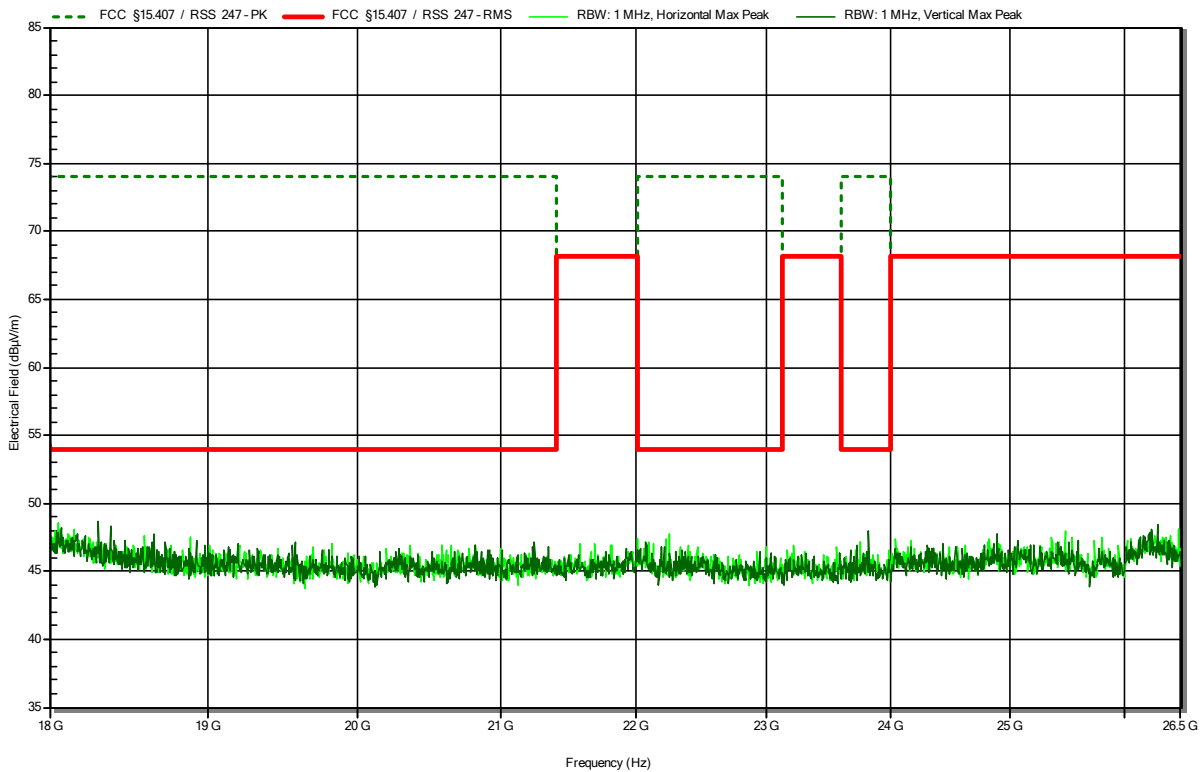


Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11a, 5885 MHz, OFDM, 6Mbps
 Test Date: 2023-11-22
 Note: EUT horizontal

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RadiMation

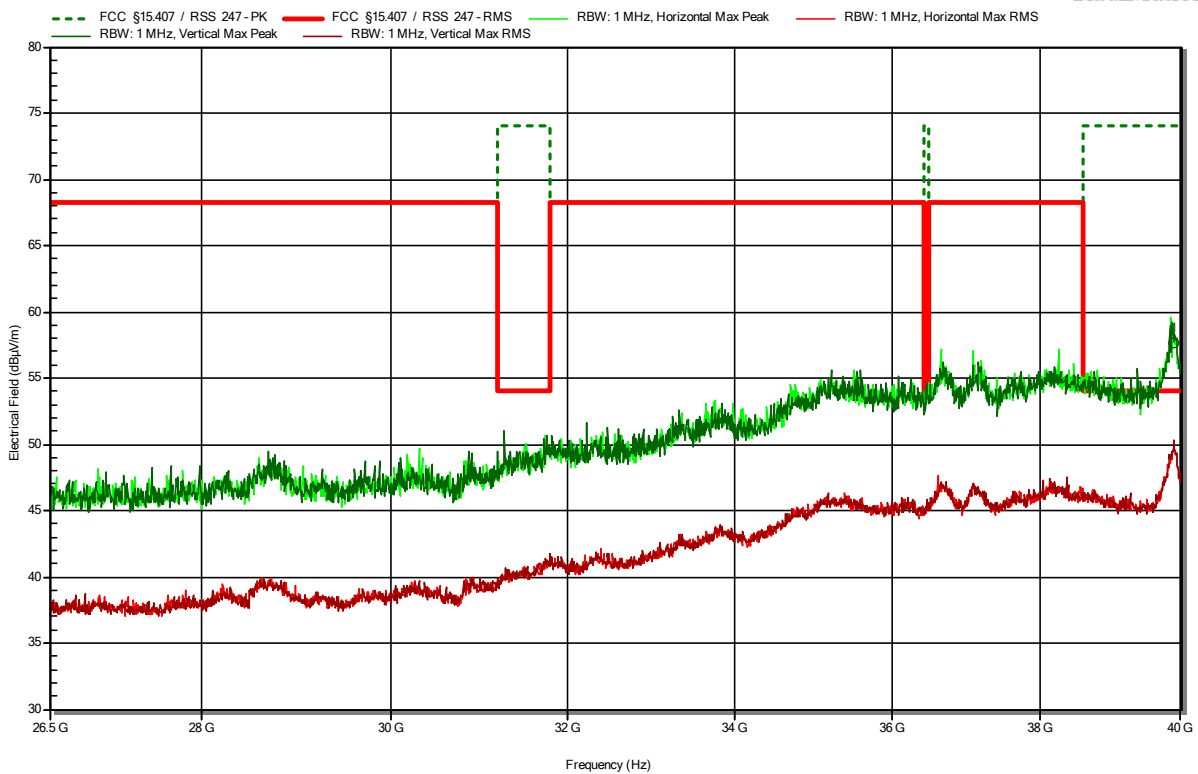


Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Flann 22240-25
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11a, 5885 MHz, OFDM, 6Mbps
 Test Date: 2023-11-22
 Note: EUT horizontal

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RadiMation



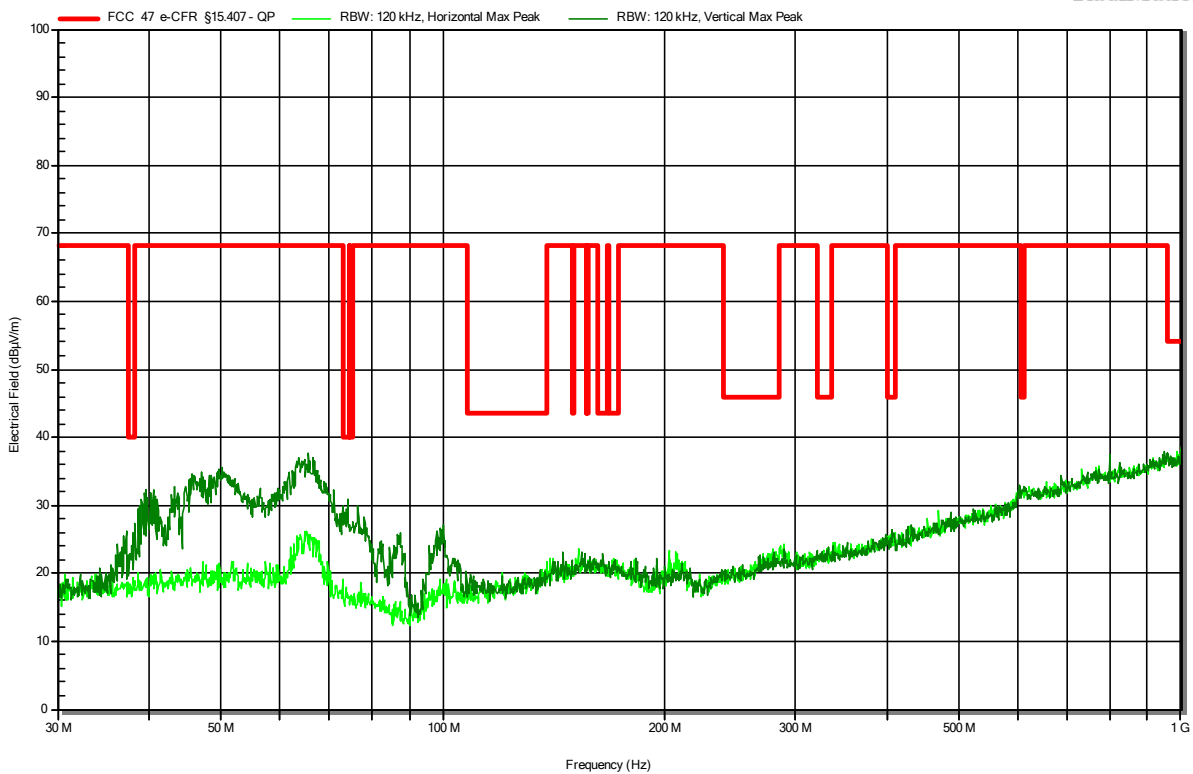
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
39.893 GHz	57.7 dBµV/m	74 dBµV/m	-16.3 dB	Pass	Vertical
Frequency	RMS	RMS Limit	RMS Difference	RMS Status	Polarization
39.893 GHz	50.25 dBµV/m	54 dBµV/m	-3.75 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11a, 5875 MHz, HT40, MCS0
 Test Date: 2023-11-20
 Note: EUT horizontal

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RadiMation

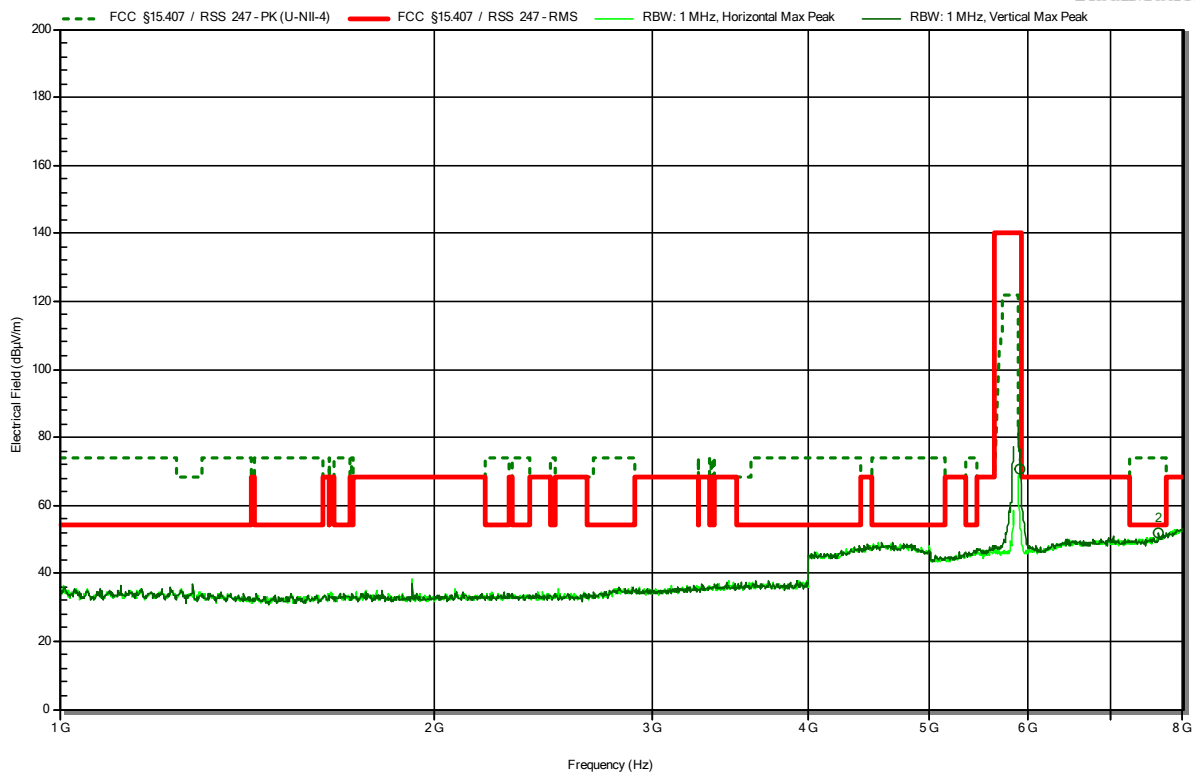


Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11n, 5875 MHz, HT40, MCS0
 Test Date: 2023-11-21
 Note: EUT horizontal

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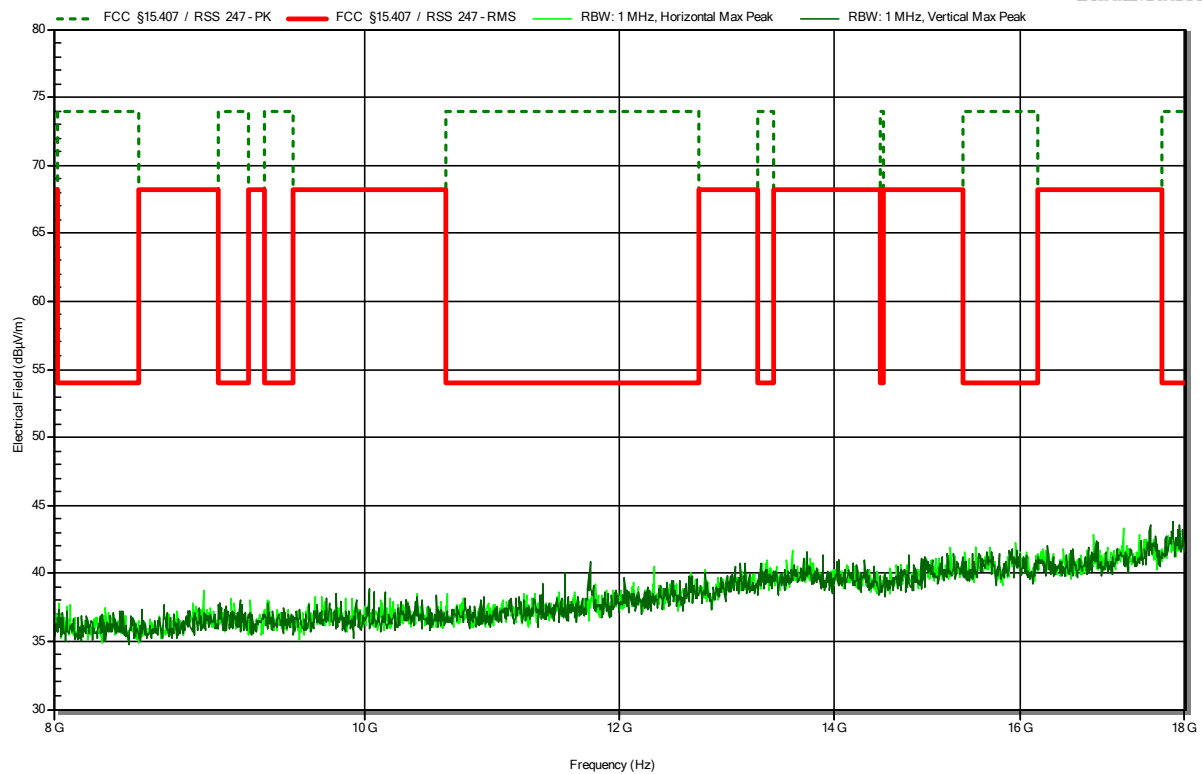


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
5.918 GHz	70.72 dBµV/m	73.27 dBµV/m	-2.55 dB	Pass	Vertical
7.646 GHz	51.76 dBµV/m	74 dBµV/m	-22.24 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11n, 5875 MHz, HT40, MCS0
 Test Date: 2023-11-22
 Note: EUT horizontal

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RadiMation

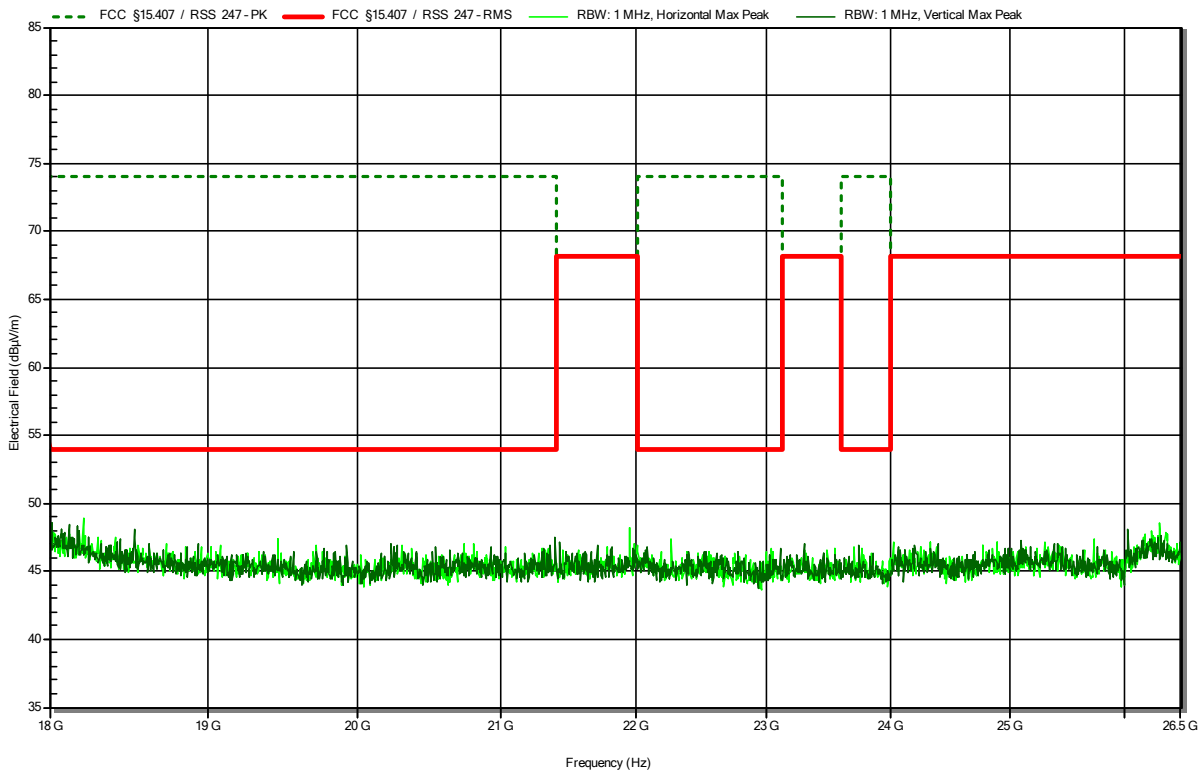


Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11n, 5875 MHz, HT40, MCS0
 Test Date: 2023-11-22
 Note: EUT horizontal

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RadiMation

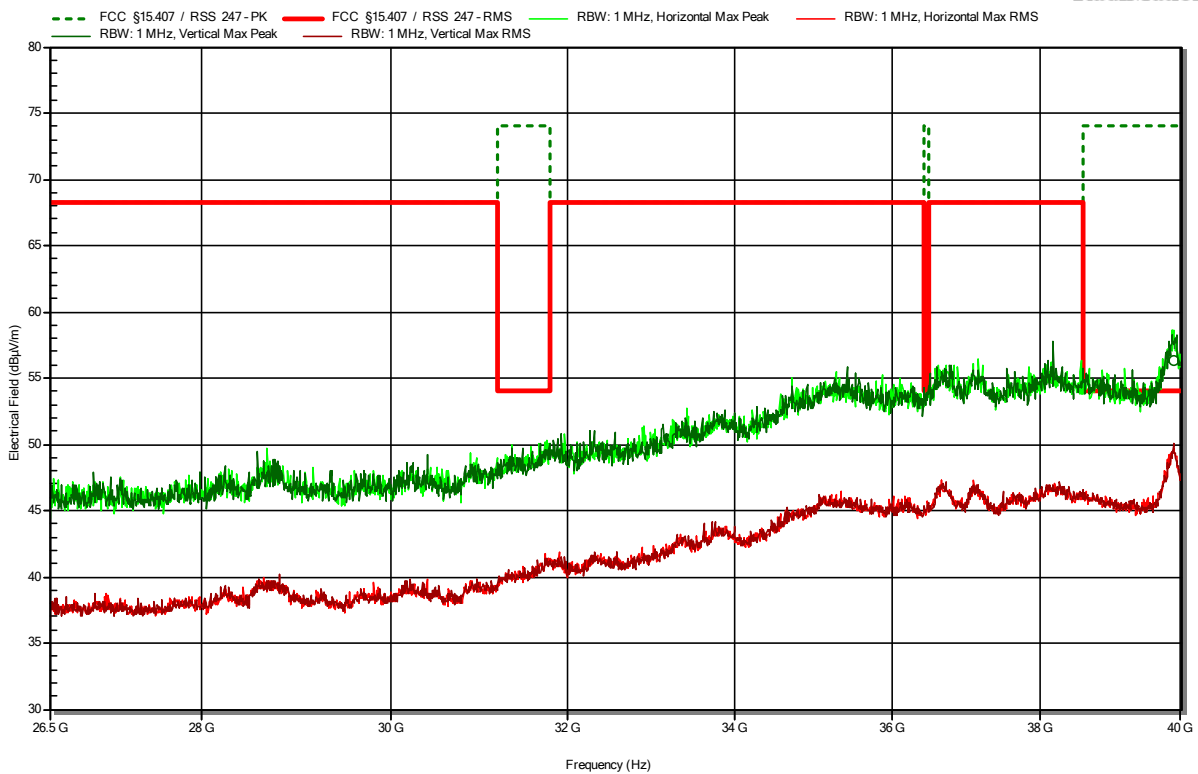


Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Flann 22240-25
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11n, 5875 MHz, HT40, MCS0
 Test Date: 2023-11-22
 Note: EUT horizontal

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
39.896 GHz	56.32 dBµV/m	74 dBµV/m	-17.68 dB	Pass	Vertical
Frequency	RMS	RMS Limit	RMS Difference	RMS Status	Polarization
39.896 GHz	49.97 dBµV/m	54 dBµV/m	-4.03 dB	Pass	Vertical

Test Report No.: G0M-2310-2273-TFC407WF-W260-UNII4-V01

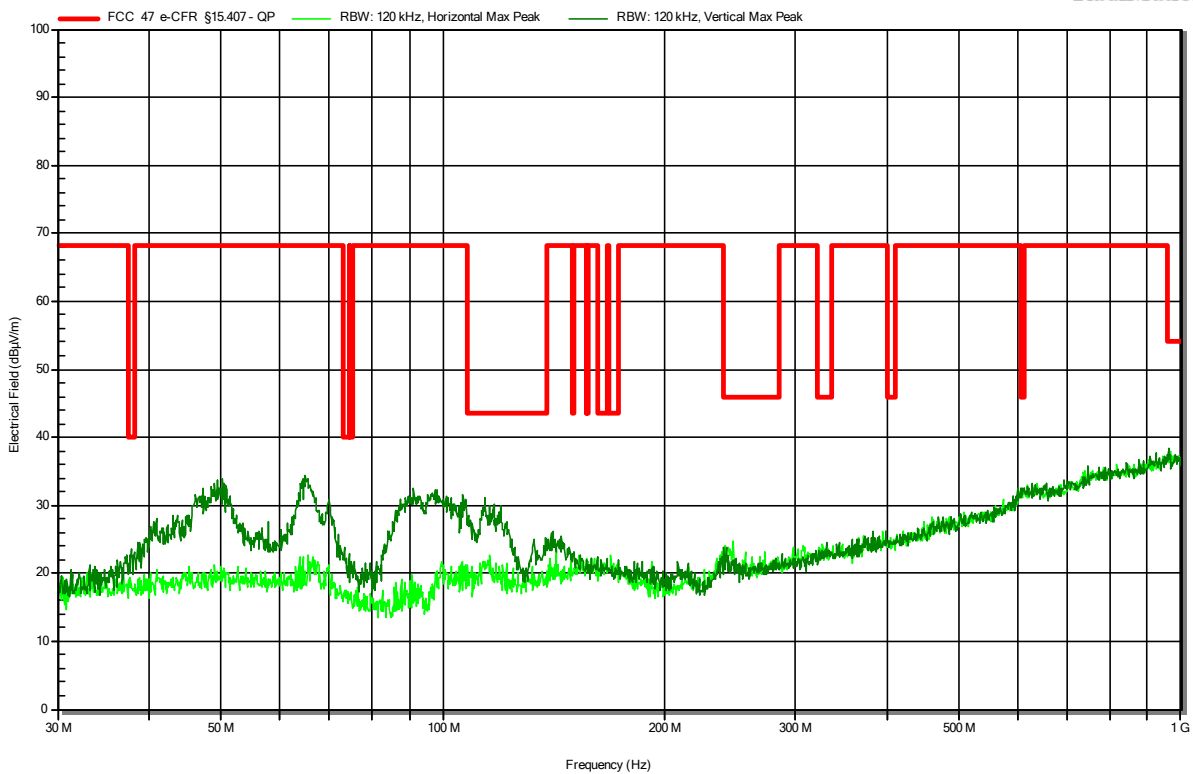
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11n, 5835 MHz, HT40, MCS0
 Test Date: 2023-11-22
 Note: EUT horizontal

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RadiMation

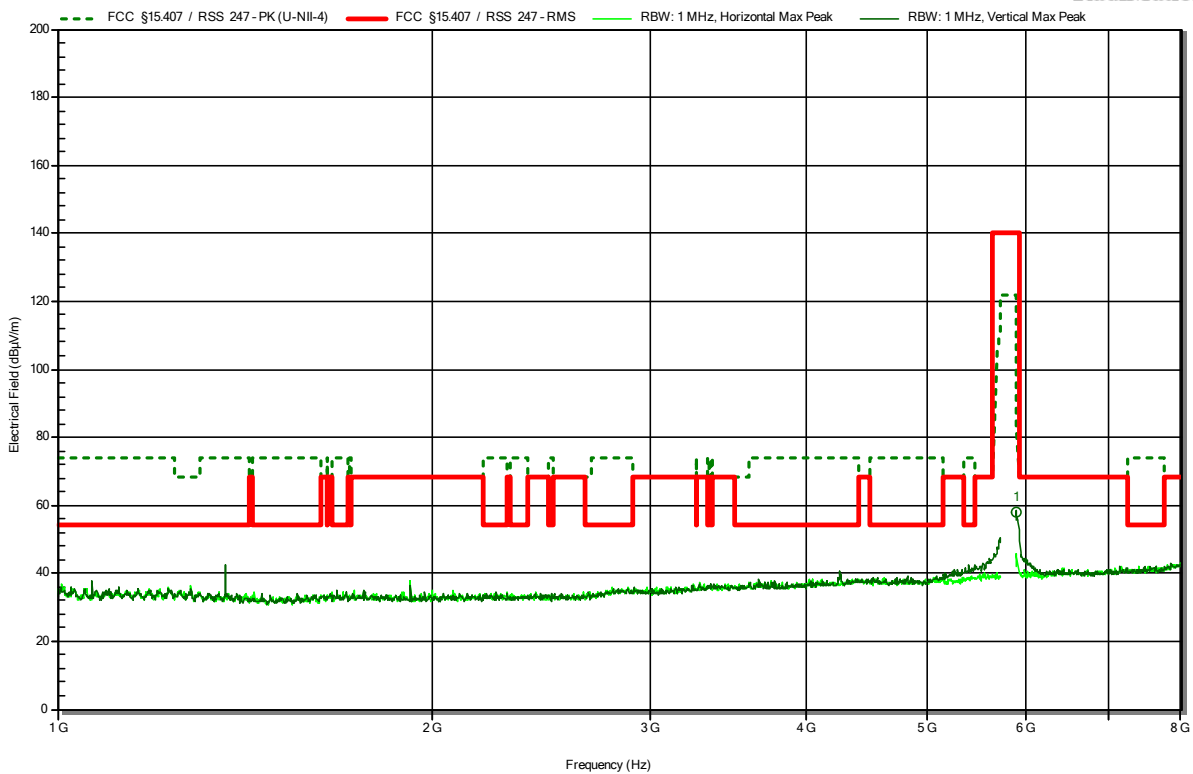


Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11n, 5835 MHz, HT40, MCS0
 Test Date: 2023-11-21
 Note: EUT horizontal

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RadiMation



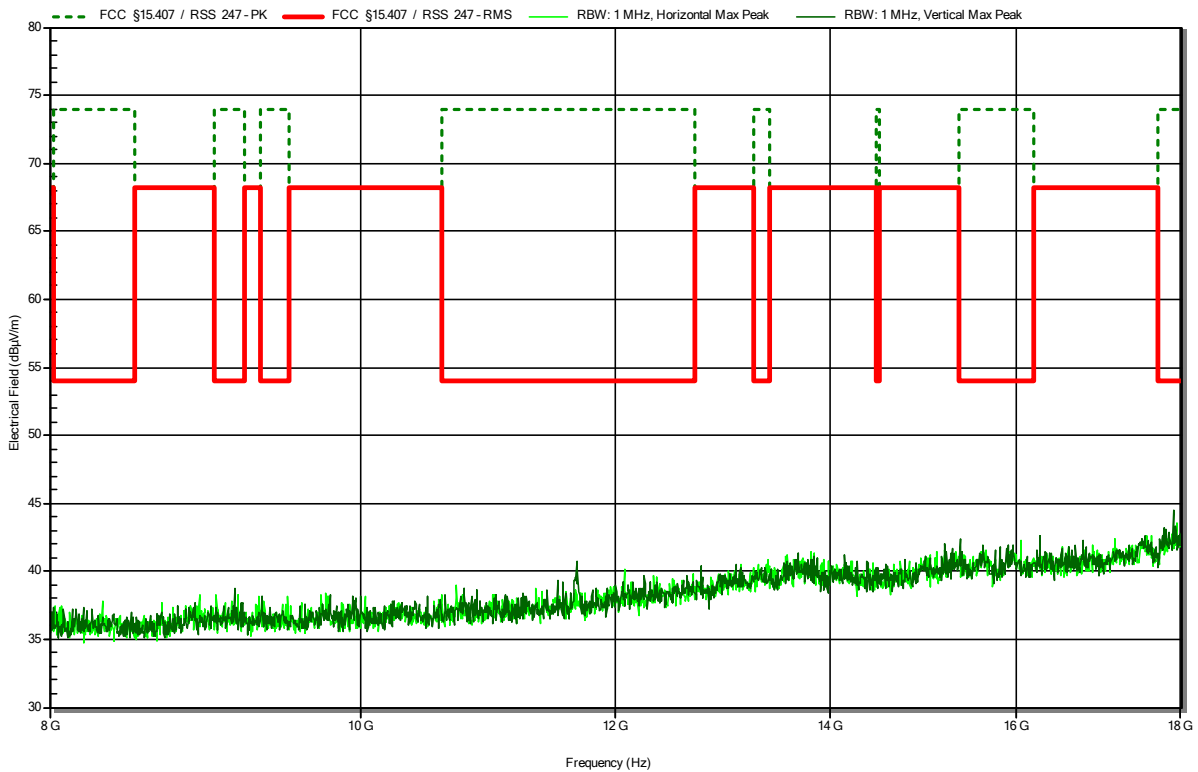
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
5.896 GHz	58.09 dBµV/m	89.27 dBµV/m	-31.18 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11n, 5835 MHz, HT40, MCS0
 Test Date: 2023-11-22
 Note: EUT horizontal

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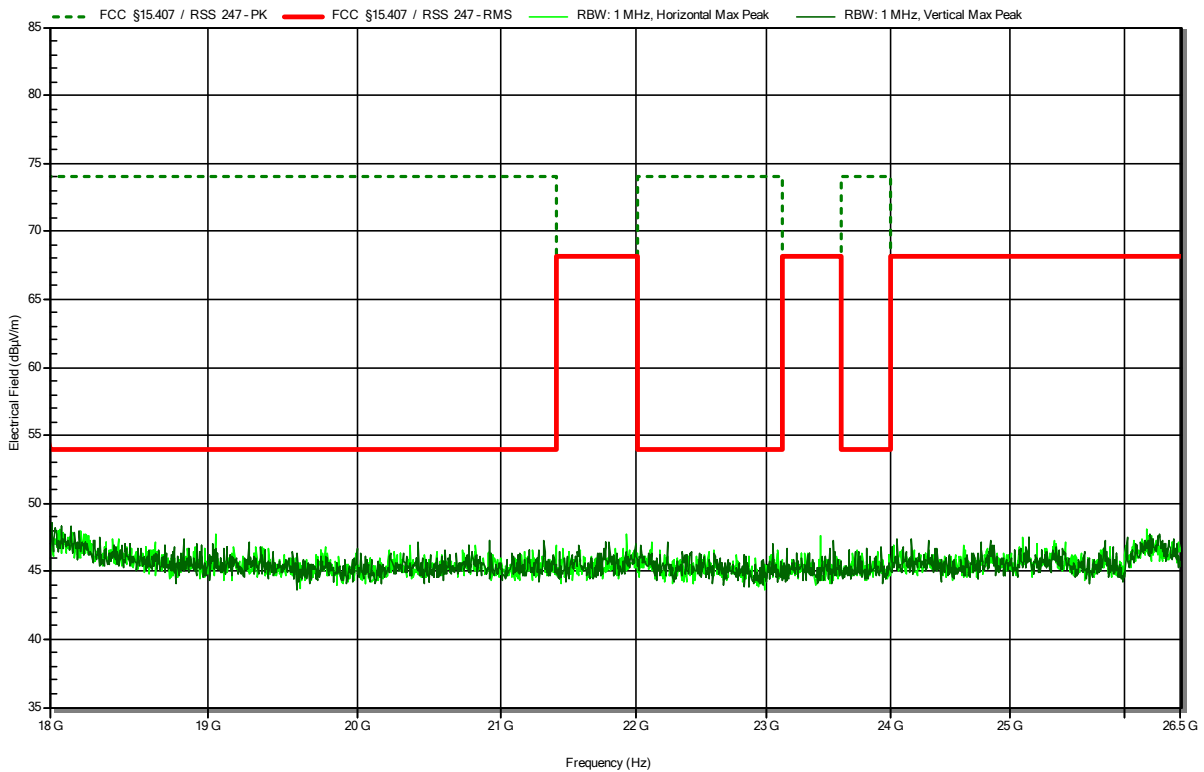
RadiMation



Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11n, 5835 MHz, HT40, MCS0
 Test Date: 2023-11-22
 Note: EUT horizontal

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RadiMation

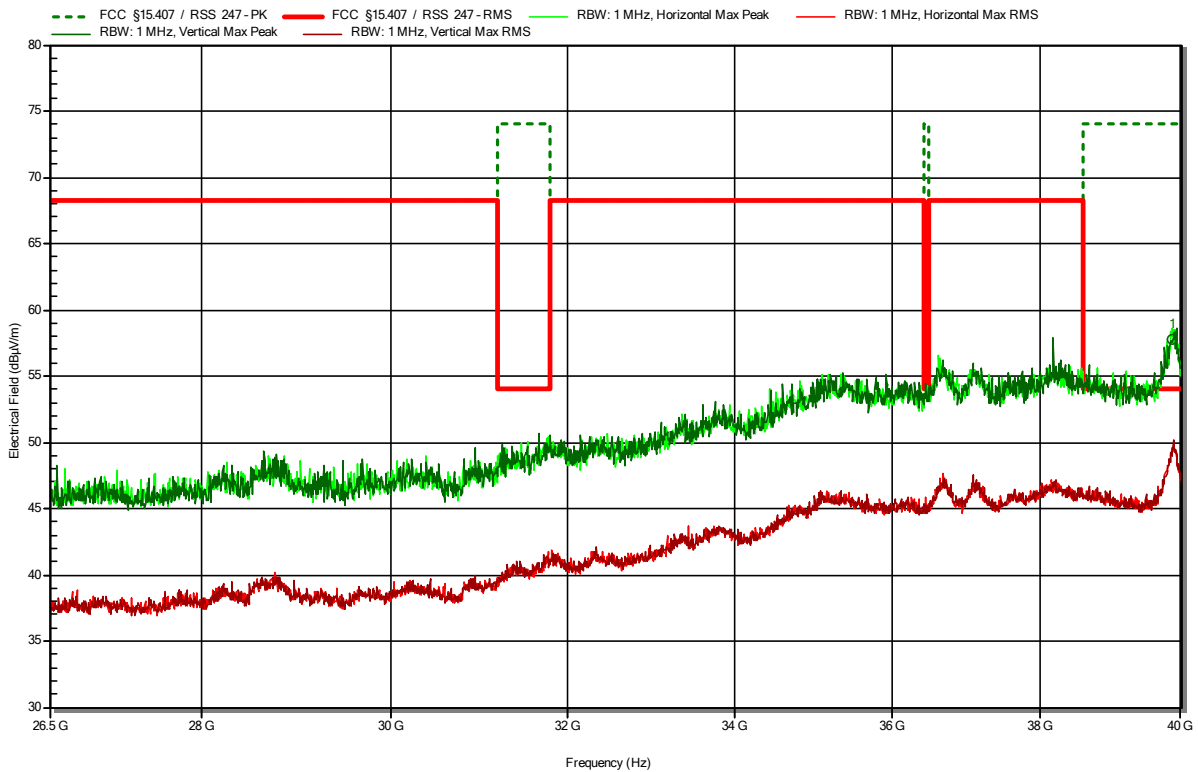


Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Flann 22240-25
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11n, 5835 MHz, HT40, MCS0
 Test Date: 2023-11-22
 Note: EUT horizontal

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RadiMation



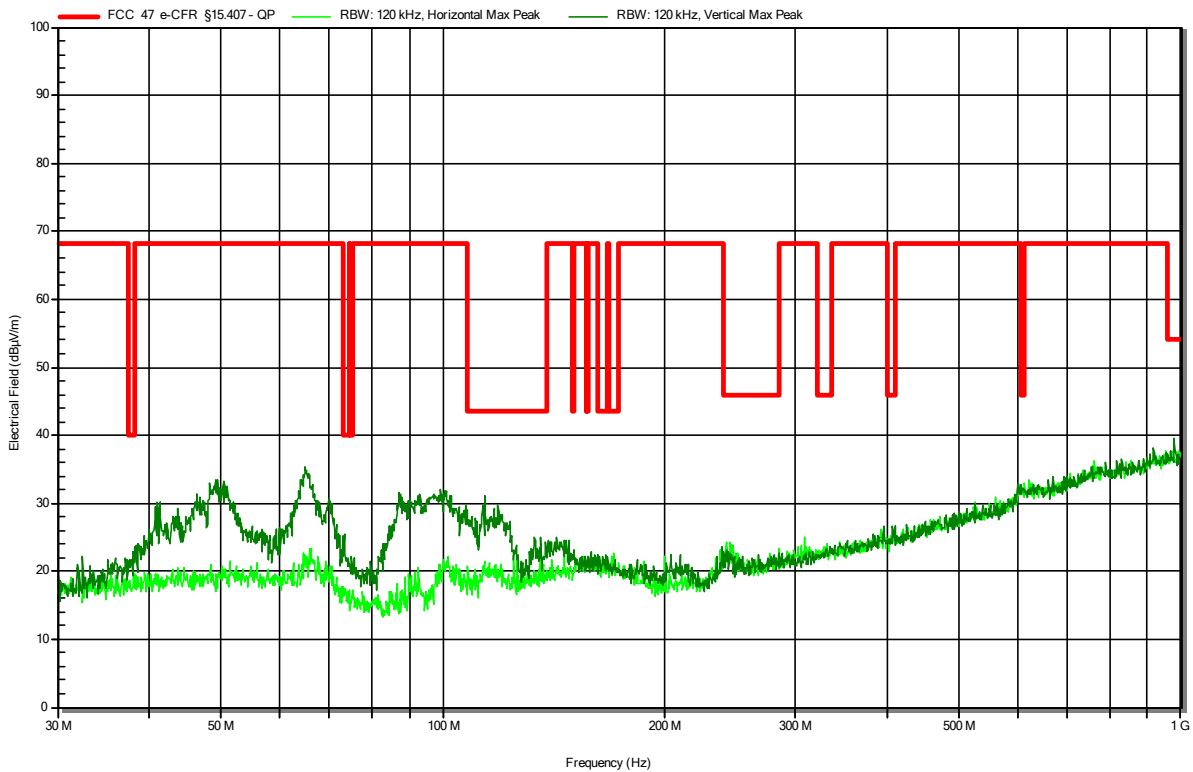
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
39.883 GHz	57.8 dBµV/m	74 dBµV/m	-16.2 dB	Pass	Vertical
Frequency	RMS	RMS Limit	RMS Difference	RMS Status	Polarization
39.883 GHz	50.1 dBµV/m	54 dBµV/m	-3.9 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 5855 MHz, HE80, MCS0
 Test Date: 2023-11-22
 Note: EUT horizontal

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RadiMation

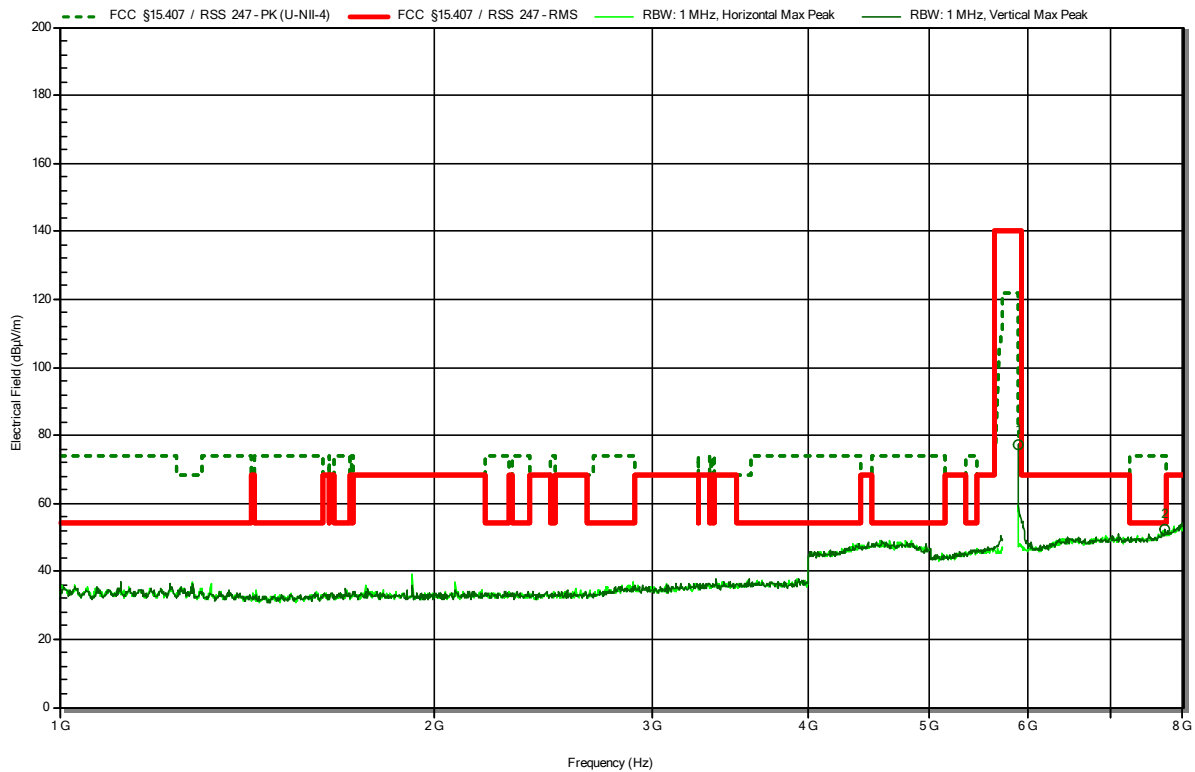


Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 5855 MHz, HE80, MCS0
 Test Date: 2023-11-21
 Note: EUT horizontal

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RadiMation

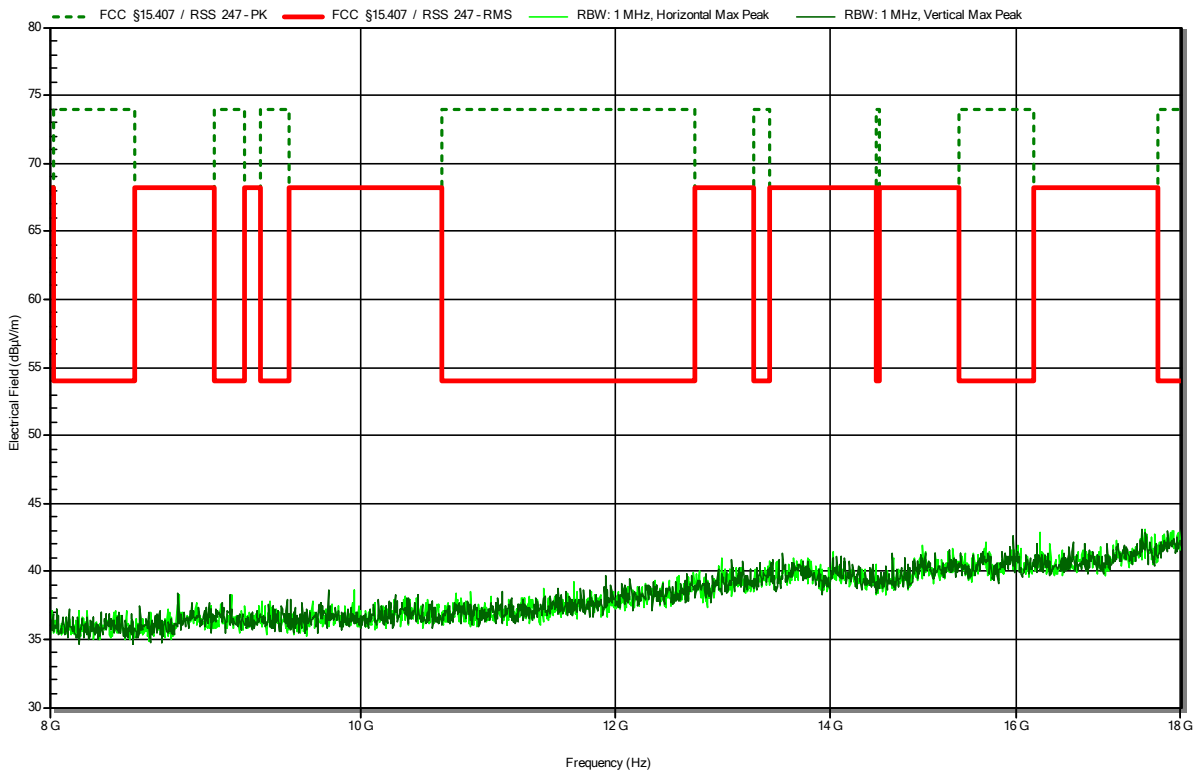


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
5.895 GHz	77.09 dBµV/m	90.2 dBµV/m	-13.11 dB	Pass	Vertical
7.743 GHz	52.41 dBµV/m	74 dBµV/m	-21.59 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 5855 MHz, HE80, MCS0
 Test Date: 2023-11-22
 Note: EUT horizontal

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RadiMation

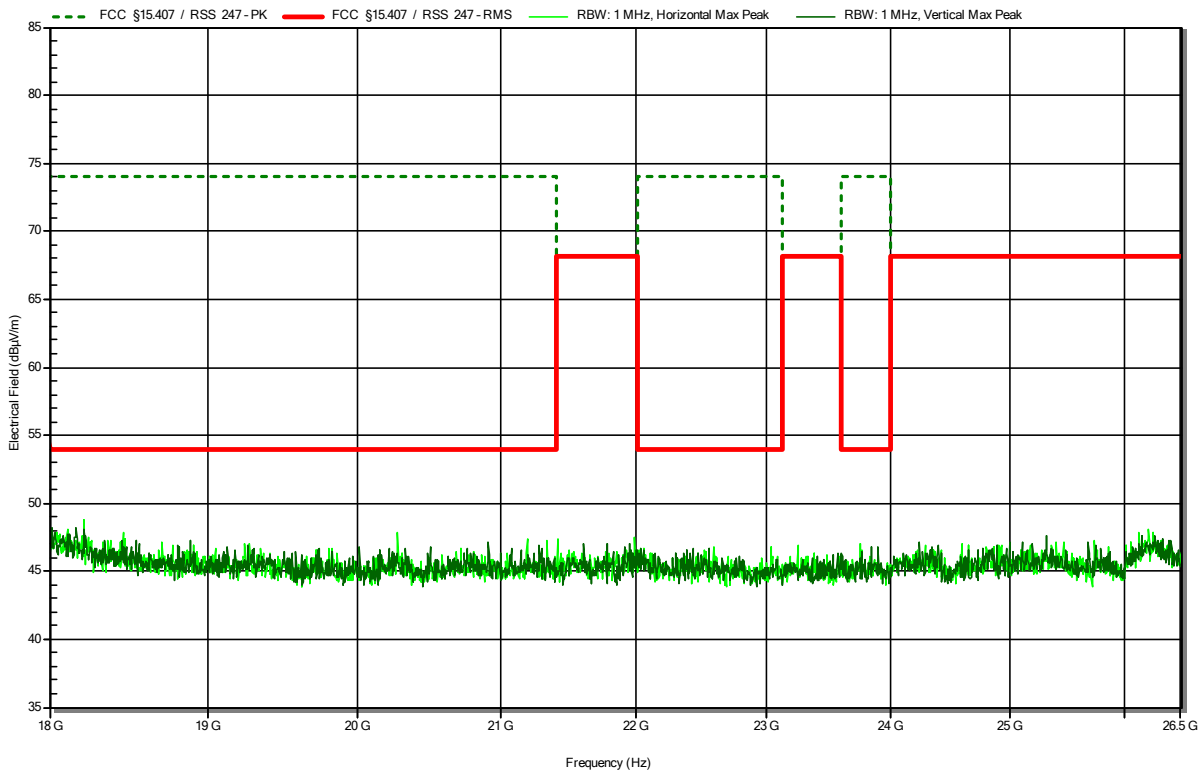


Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 5855 MHz, HE80, MCS0
 Test Date: 2023-11-22
 Note: EUT horizontal

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RadiMation

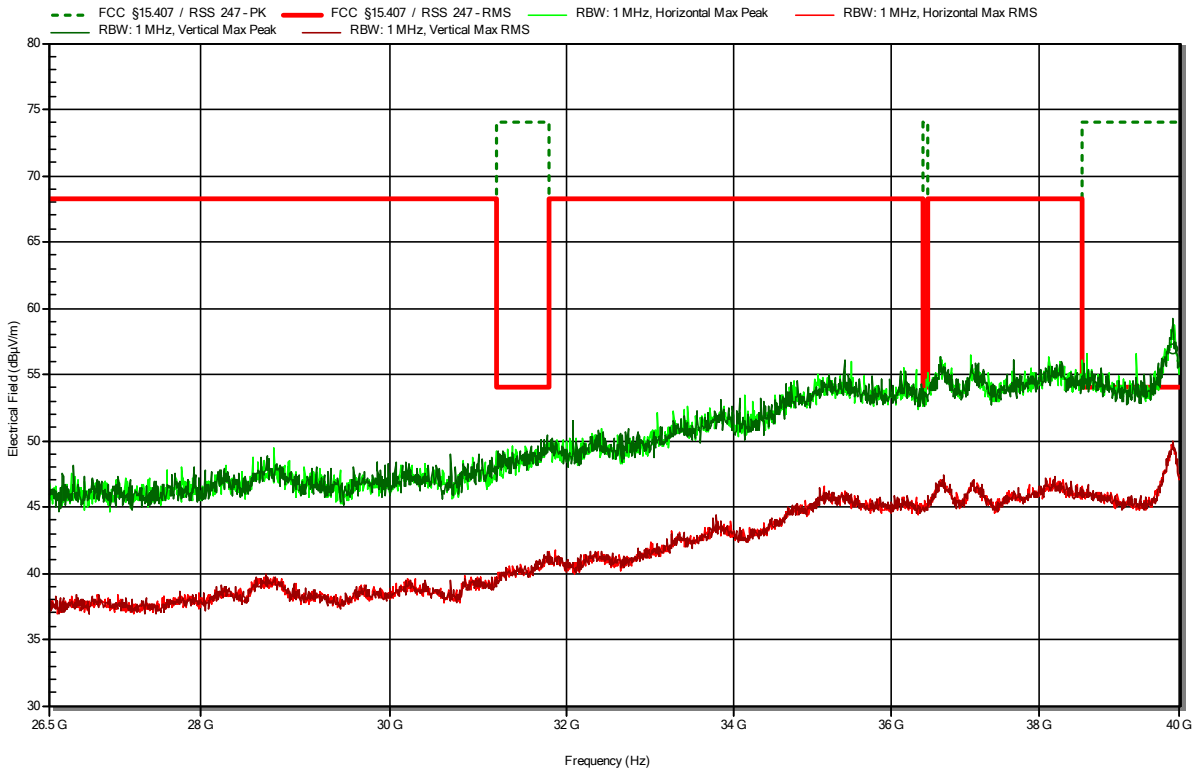


Radiated Spurious Emissions according to 47 CFR Part 15.407, RSS-247, Issue 2

Project Number: G0M-2310-2273
 Applicant: u-blox Malmö AB
 Model Description: Host-based multiradio module
 Model: MAYA-W260-00B
 Test Sample ID: 45122
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.3 VDC
 Antenna: Flann 22240-25
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 5855 MHz, HE80, MCS0
 Test Date: 2023-11-22
 Note: EUT horizontal

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RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
39.904 GHz	56.91 dBµV/m	74 dBµV/m	-17.09 dB	Pass	Vertical
Frequency	RMS	RMS Limit	RMS Difference	RMS Status	Polarization
39.904 GHz	49.95 dBµV/m	54 dBµV/m	-4.05 dB	Pass	Vertical

=== END OF TEST REPORT ===

Test Report No.: G0M-2310-2273-TFC407WF-W260-UNII4-V01

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