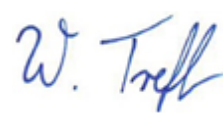


RADIO REPORT FCC 47 CFR Part 15C ISED Canada RSS-247 Frequency hopping systems operating within the 2400.0 MHz - 2483.5 MHz MHz band	
Report Reference No	G0M-2405-2583-TFC247BTv01-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	    DAkkS - Registration number : D-PL-12092-01-03 (ISED) ISED Testing Laboratory site: 3470A DAkkS - Registration number : D-PL-12092-01-04 (FCC) FCC Filed Test Laboratory, Reg.-No.: 96970
Applicant	u-blox AG
Address	Zürcherstrasse 68 8800 Thalwil Switzerland
Test Specification	47 CFR Part 15C RSS-247, Issue 3, 2023-08 RSS-Gen, Issue 5, Amendment 2, 2021-02
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	M.2 card for the MAYA-W2 Wi-Fi 6, Bluetooth 5.3 and IEEE 802.15.4 module
Model(s)	M2-MAYA-W271-00C
Additional Model(s)	None
Brand Name(s)	None
Hardware Version(s)	05
Software Version(s)	01
FCC ID	XPYMAYAW2A
IC	8595A-MAYAW2A
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 °C - 30 °C	
Test Lab Humidity	25 % - 55 %	
Date of receipt of test item	2024-06-24	
Report:		
Compiled by	Ehsan Sohrabi	
Tested by (+ signature) (Responsible for Test)	Ehsan Sohrabi	
Approved by (+ signature) (Test Lab Engineer)	Wilfried Treffke	
Date of Issue	2024-11-07	
Total number of pages	33	
General Remarks:		
The test results presented in this report relate only to the object tested. 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. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.		
Additional Comments:		
Permissive change of a certified module(measurement with Molex antenna).		

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2024-11-07	Initial Release	--

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
BR	Basic Rate (Bluetooth)
EUT	Equipment Under Test
FCC	Federal Communications Commission
ISED	Innovation, Science and Economic Development Canada
RBW	Resolution bandwidth
RMS	Root mean square
VBW	Video bandwidth
V _{NOM}	Nominal supply voltage

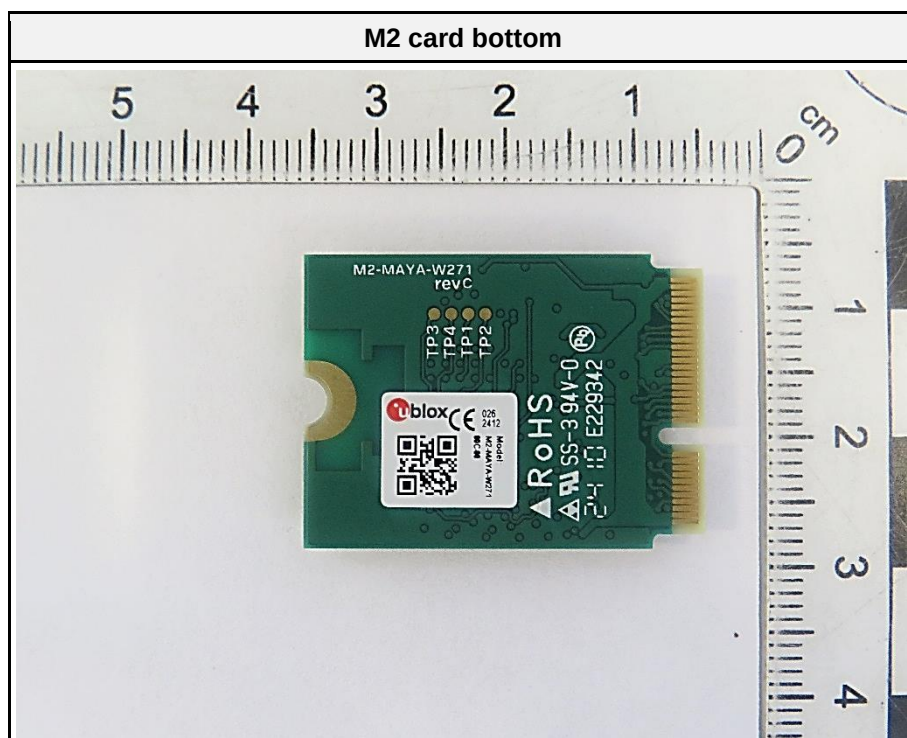
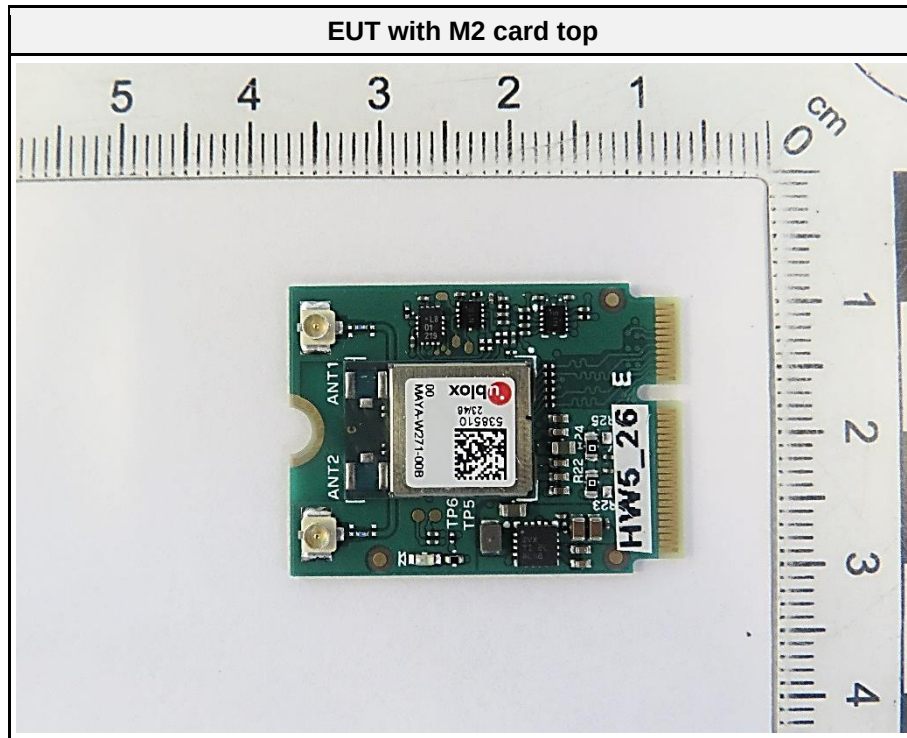
REPORT INDEX

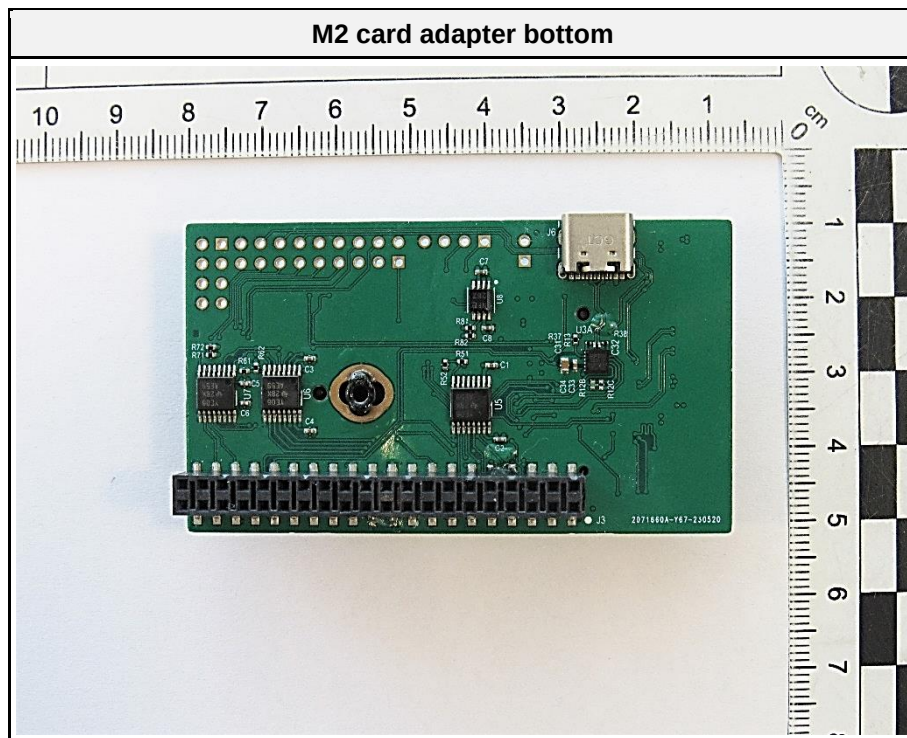
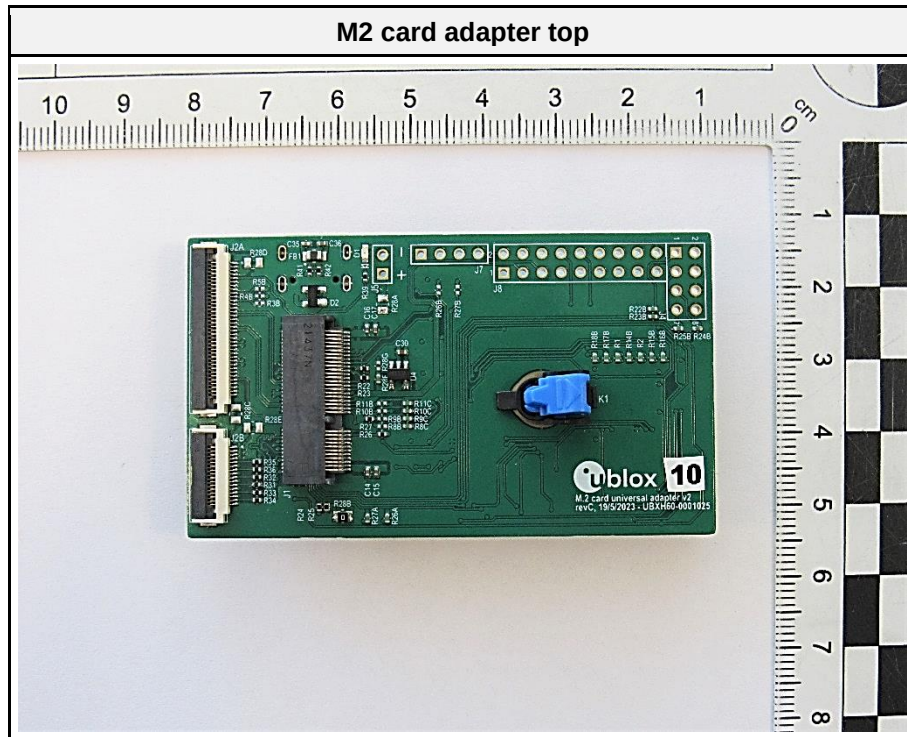
1	Equipment (Test Item) Under Test.....	6
1.1	Photos	7
1.2	Test Modes	12
1.3	Test Frequencies.....	13
1.4	Sample emission level calculation.....	14
2	Result Summary.....	15
3	Test Conditions and Results.....	16
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3.2	Test Conditions and Results - Receiver radiated emissions	22

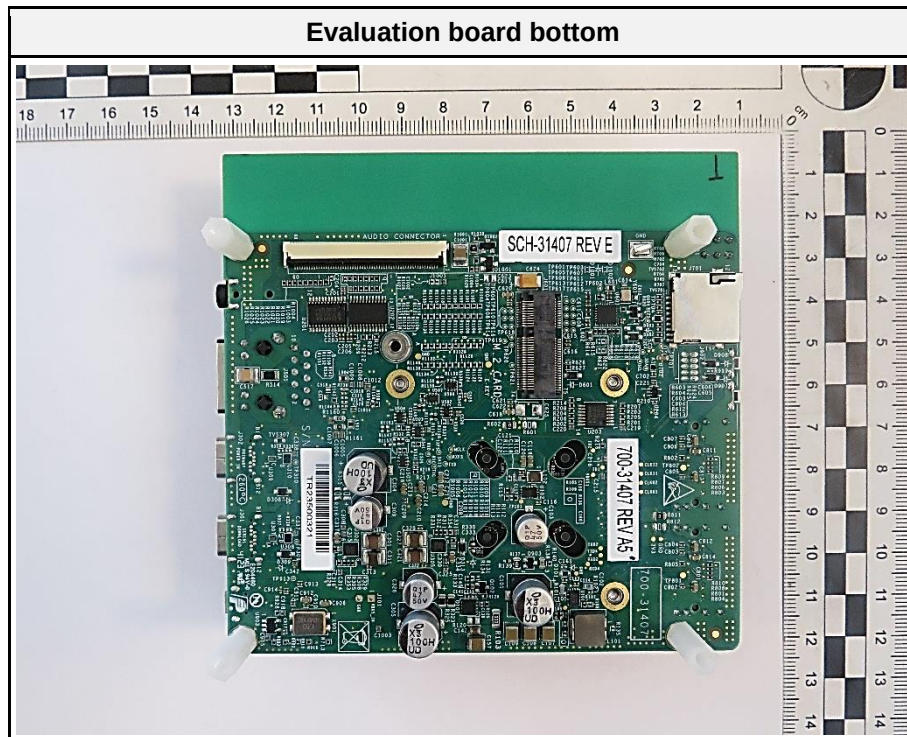
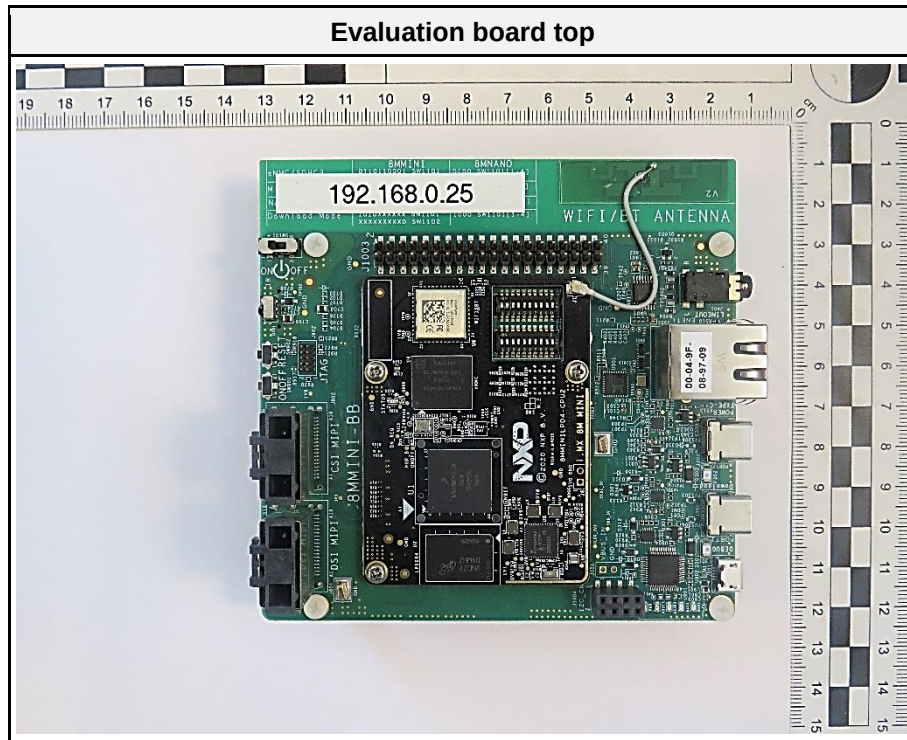
1 Equipment (Test Item) Under Test

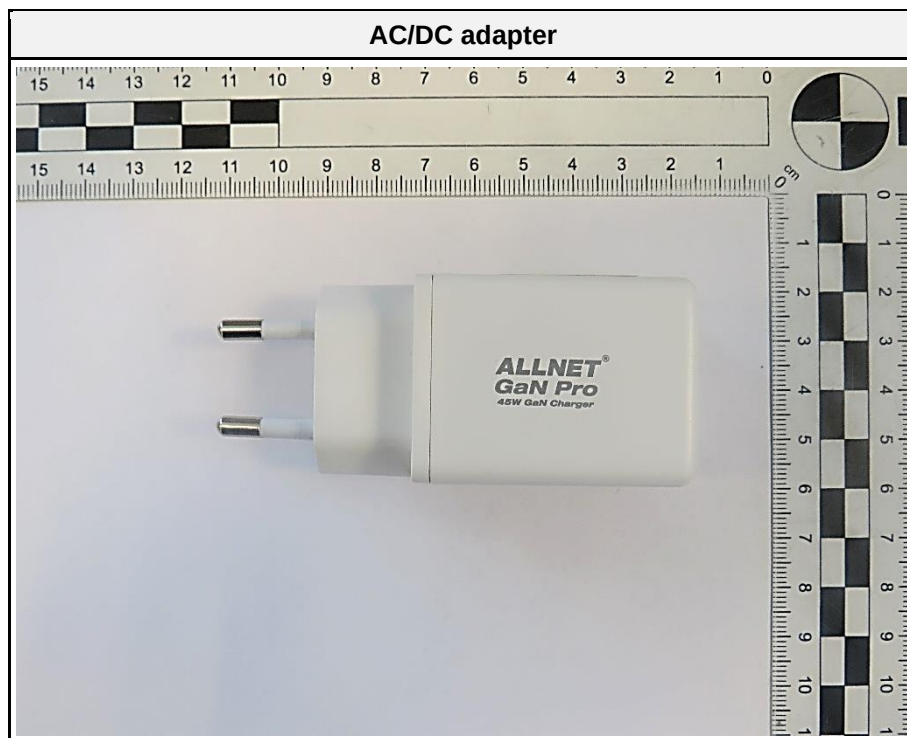
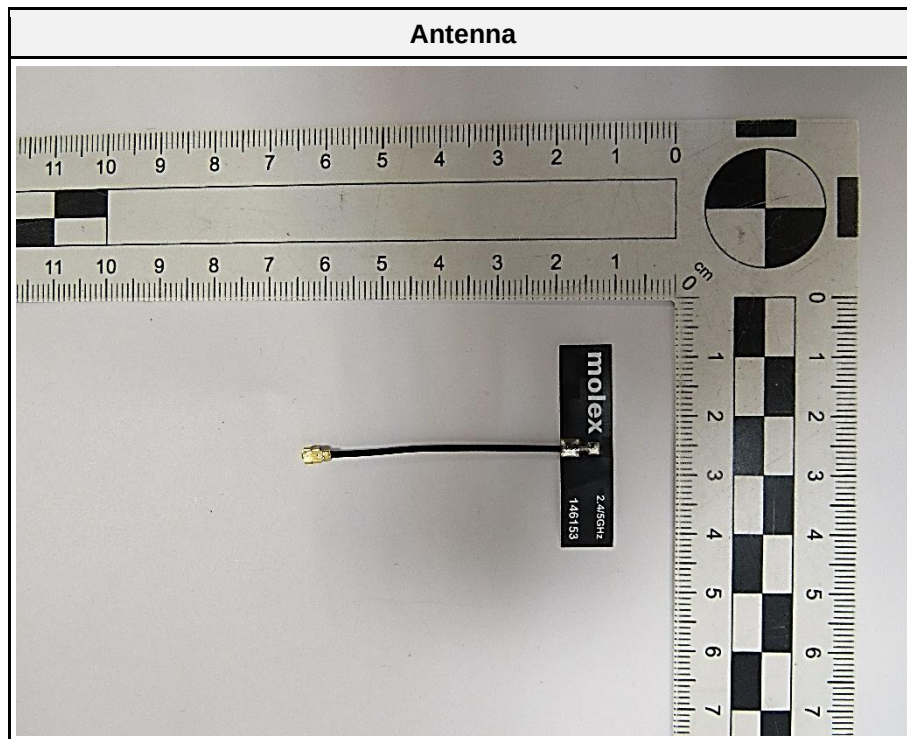
Description	M.2 card for the MAYA-W2 Wi-Fi 6, Bluetooth 5.3 and IEEE 802.15.4 module			
Model	M2-MAYA-W271-00C			
Additional Model(s)	None			
Brand Name(s)	None			
Sample Identification	EUT #	Sample-ID	Serial Number	Date of receipt
	EUT 1	49021	HW5_26	2024-06-24
Hardware Version(s)	05			
Software Version(s)	01			
PMN	M2-MAYA-W271			
HVIN	MAYA-W271-00B			
FVIN	N/A			
HMN	N/A			
FCC ID	XPYMAW2A			
IC	8595A-MAYAW2A			
Equipment type	Radio Module			
Radio type	Transceiver			
Assigned frequency bands	2400.0 MHz - 2483.5 MHz			
Radio technology	Bluetooth			
Modulation	GFSK, PI/4-DQPSK, 8-DPSK			
Number of antenna ports	2 (only one port is active for Bluetooth)			
Radio Module	Type	WLAN 2.4/5 GHz / Bluetooth / ZigBee module		
	Model	M2-MAYA-W271-00C		
	Manufacturer	u-blox AG		
	HW Version	05		
	SW Version	01		
Antenna	Type	External antenna		
	Model	1461530050		
	Manufacturer	Molex		
	Gain	+ 3.2 dBi		
Supply Voltage	V _{NOM}	3.3 V DC		
Operating Temperature	T _{NOM}	20°C		
Dedicated AC/DC-Adaptor	None			
Manufacturer	u-blox AG Zürcherstrasse 68 8800 Thalwil Switzerland			

1.1 Photos









Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE	Laptop	Lenovo	--	For configuring test mode
AE	Evaluation Kit for the i.MX 8M Mini Applications Processor	NXP	8MMINILPD4-EVK	Host computer board
AE	M2 card adapter	u-blox	v2 revC	--
AE	AC/DC adapter	Allnet	212154	For evaluation board
CBL	Data cable	Molex	15266-0171	From M2 card adapter to Evaluation Kit for the i.MX 8M Mini Applications Processor, length is 153 mm
CBL	USB-C	--	--	--
SFT	Terminal	--	--	Test mode activation
SIM	Communication Tester	R&S	CBT	To communicate with the EUT
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
CBL	Connecting Cable			
SFT	Software			
Comment: --				

1.2 Test Modes

Mode	Description
DH5 Single	Mode = Transmit Modulation = GFSK Spreading = None Packet type = DH5 Duty cycle = 78%
Receive	Mode = Receive (Scan)
Comment: The above settings are found as worst case during evaluation of the original modular test report No.: G0M-2302-1881-TFC247BT-W271-V03, issued on 2024-01-11 by Eurofins Product Service GmbH.	

1.3 Test Frequencies

Designator	Mode	Channel	Frequency [MHz]
F1	Tx / Rx	0	2402

1.4 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

2 Result Summary

FCC 47 CFR Part 15C, ISED RSS-247				
Product Standard Reference	Requirement	Reference Method	Result	Remarks
ISED RSS-Gen, Issue 5 A2 (section 6.7)	Occupied Bandwidth	ANSI C63.10-2013	N/R	1
FCC § 15.247(a)(1) ISED RSS-247 § 5.1 Issue 3	20 dB Bandwidth	ANSI C63.10-2013	N/T	1
FCC § 15.247(a)(1)(iii) ISED RSS-247, Issue 3 (section 5.1)	Number of hopping frequencies	ANSI C63.10-2013	N/T	1
FCC § 15.247(a)(1) ISED RSS-247, Issue 3 (section 5.1)	Frequency hopping channel separation	ANSI C63.10-2013	N/T	1
FCC § 15.247(a)(1)(iii) ISED RSS-247, Issue 3 (section 5.1)	Time of occupancy (Dwell time)	ANSI C63.10-2013	N/T	1
FCC § 15.247(b) ISED RSS-247, Issue 3 (section 5.4)	Maximum peak conducted power	ANSI C63.10-2013	N/T	1
FCC § 15.207 ISED RSS-247, Issue 3 (section 3.1)	AC power line conducted emissions	ANSI C63.10-2013	N/T	1
FCC § 15.247(d) ISED RSS-247, Issue 3 (section 5.5)	Band edge compliance	ANSI C63.10-2013	N/T	1
FCC § 15.247(d) ISED RSS-247, Issue 3 (section 5.5)	Conducted spurious emissions	ANSI C63.10-2013	N/T	1
FCC § 15.247(d) FCC § 15.209 ISED RSS-Gen, Issue 5 A2 (section 6.13)	Transmitter radiated spurious emissions	ANSI C63.10-2013	PASS	--
ISED RSS-247, Issue 3 (section 3.1)	Receiver radiated spurious emissions	ANSI C63.4-2014	PASS	--
Note 1: Permissive change of a certified module.				
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

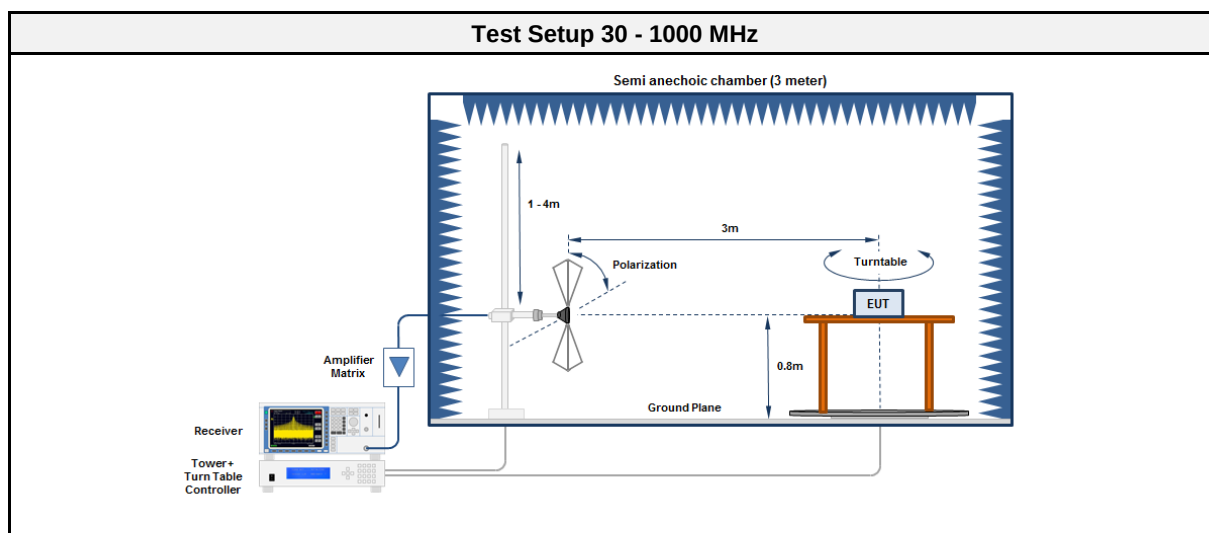
3.1.1 Information

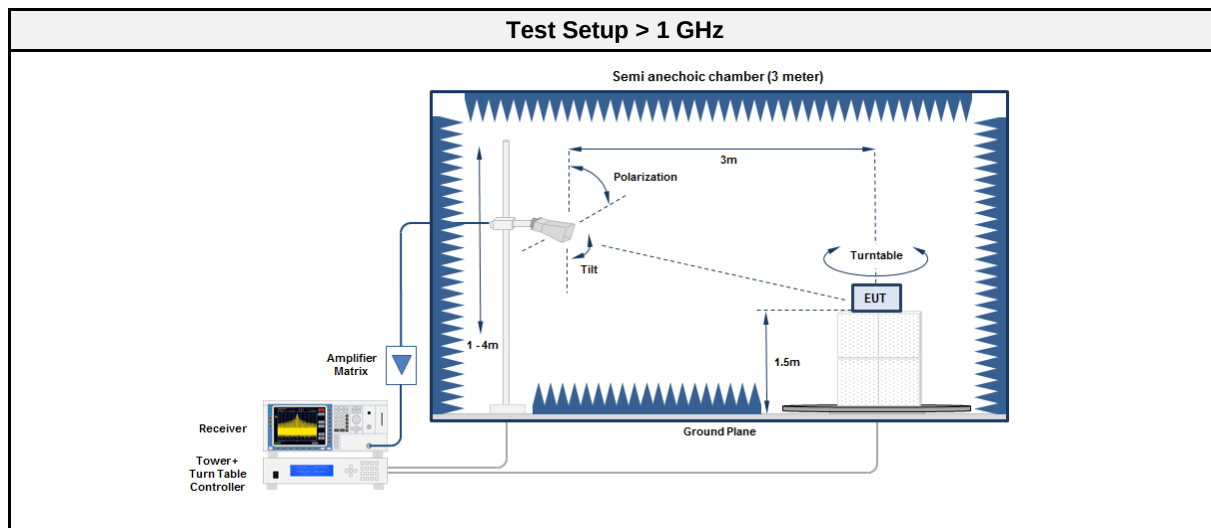
Test Information	
Reference	FCC § 15.247(d); FCC § 15.209; ISSED RSS-Gen, Issue 5 A2 (section 6.13)
Measurement Uncertainty	± 5.95 dB
Measurement Method	ANSI C63.10 6.4, 6.5, 6.6
Operator	Ehsan Sohrabi
Date	2024-09-17

3.1.2 Limits

Limits			
Frequency range [MHz]	Detector	Field strength [µV/m]	Measurement distance [m]
0.009 - 0.09	Average	2400/F[kHz]	300
0.09 - 0.110	Quasi-Peak	2400/F[kHz]	300
0.110 - 0.490	Average	2400/F[kHz]	300
0.490 - 1.705	Quasi-Peak	24000/F[kHz]	30
1.705 - 30.0	Quasi-Peak	30	30
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

3.1.3 Setup





3.1.4 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	RadiMation	2023.2.6
EMC Software	DARE Instruments	RadiMation	2024.1.3

Test Equipment 30 - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2024-07	2027-07
Test Receiver	Rohde & Schwarz	ESW44	EF01856	2024-04	2025-04
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	2024-07	2025-07
Spectrum analyzer	Rohde & Schwarz	FSW43	EF00896	2024-07	2025-07
Horn antenna	Schwarzbeck	BBHA 9120B (1-10GHz)	EF01678	2024-05	2027-05
Double Ridged Waveguide Horn Antenna	Schwarzbeck	HWRD 650 (6,5-18GHz)	EF01679	2024-05	2027-05

3.1.5 Procedure

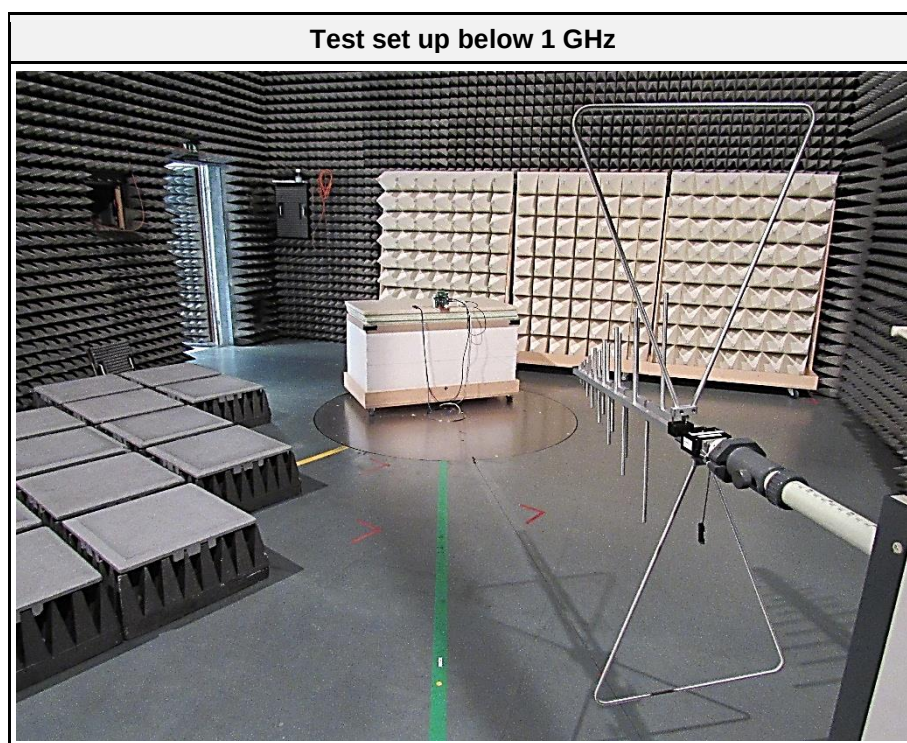
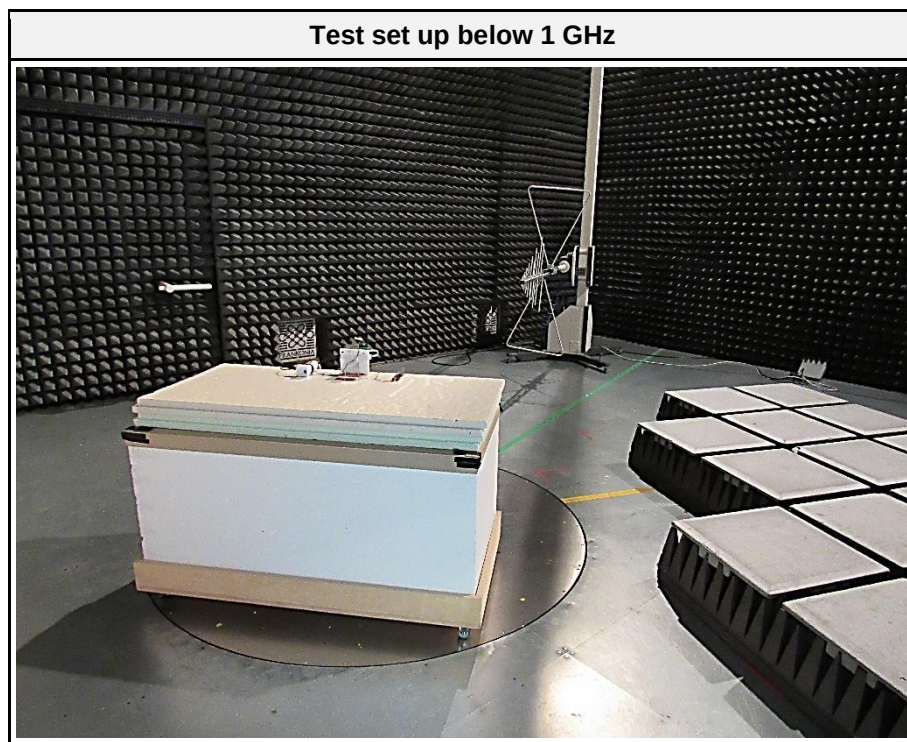
Test Procedure 30 MHz - 1000 MHz	
1. EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground 2. EUT set to test mode 3. The receiver is set to peak detection with max hold 4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m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

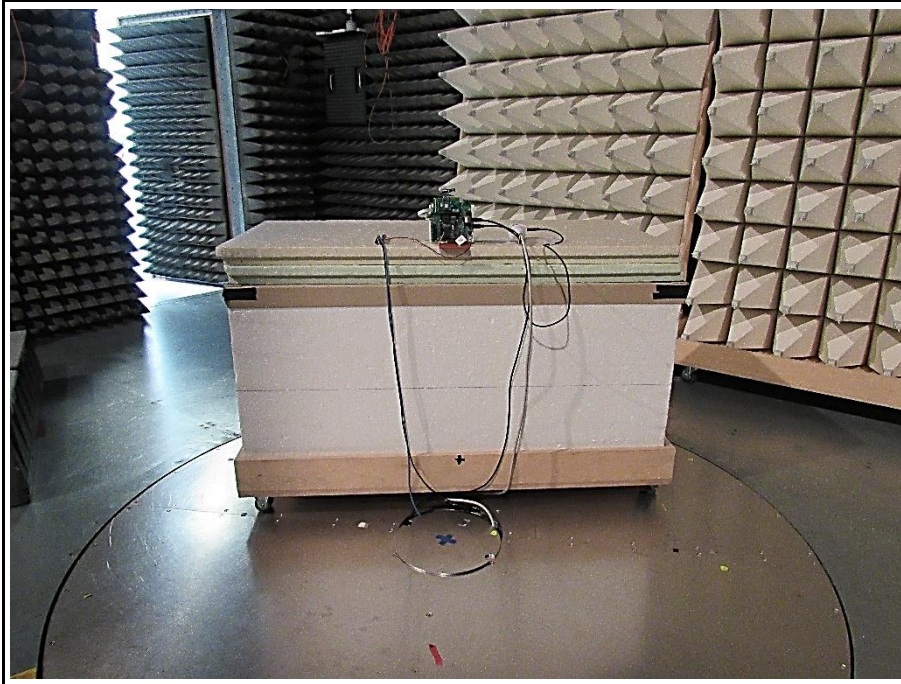
3.1.6 Results

Test Results						
Channel [MHz]	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Margin [dB]
2402	171.62	29.3	pk	hor	43.5	-14.23
2402	2261.9533	48.44	pk	hor	74	-25.56
2402	2261.9533	38.12	avg	hor	54	-15.88
2402	2361.8967	57.3	pk	hor	74	-16.7
2402	2361.8967	46	avg	hor	54	-8
2402	4803.6	42.14	pk	hor	74	-31.86
2402	4803.6	35.58	avg	hor	54	-18.42
2402	12009.096	45.96	pk	ver	74	-28.04
2402	12009.096	37.98	avg	ver	54	-16.02
2480	2483.8801	59.99	pk	hor	74	-14.01
2480	2483.8801	47.16	avg	hor	54	-6.84

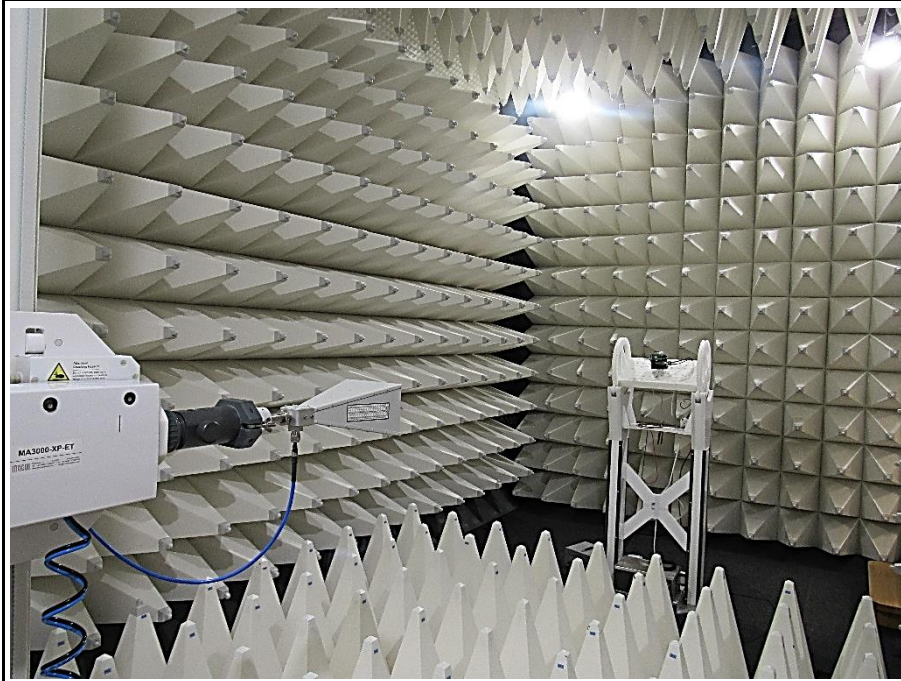
3.1.7 Setup Photos

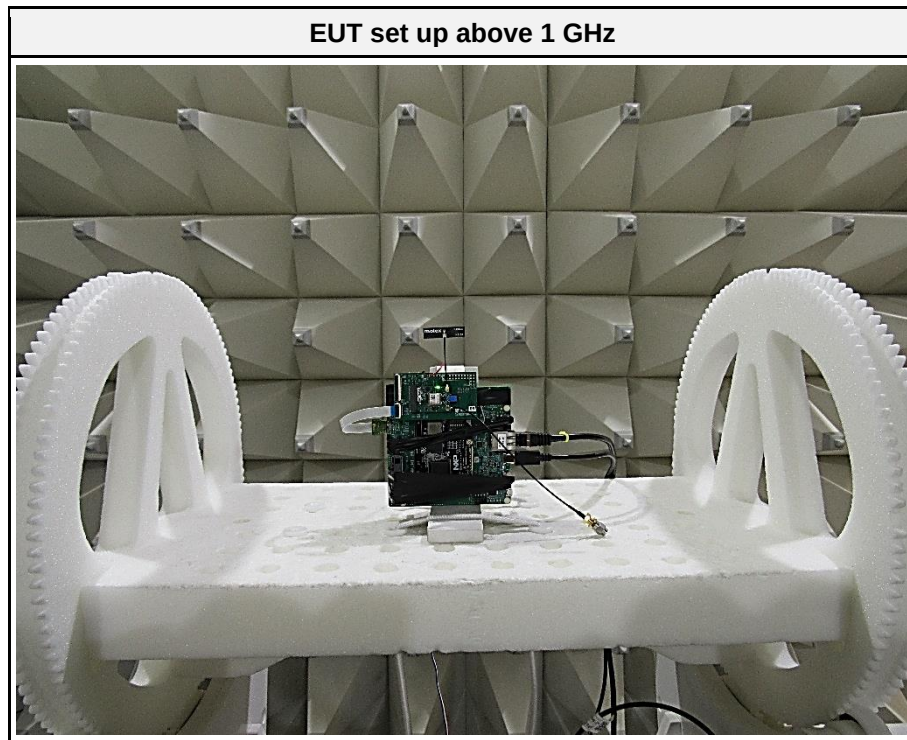


EUT set up below 1 GHz



Test set up above 1 GHz





3.2 Test Conditions and Results - Receiver radiated emissions

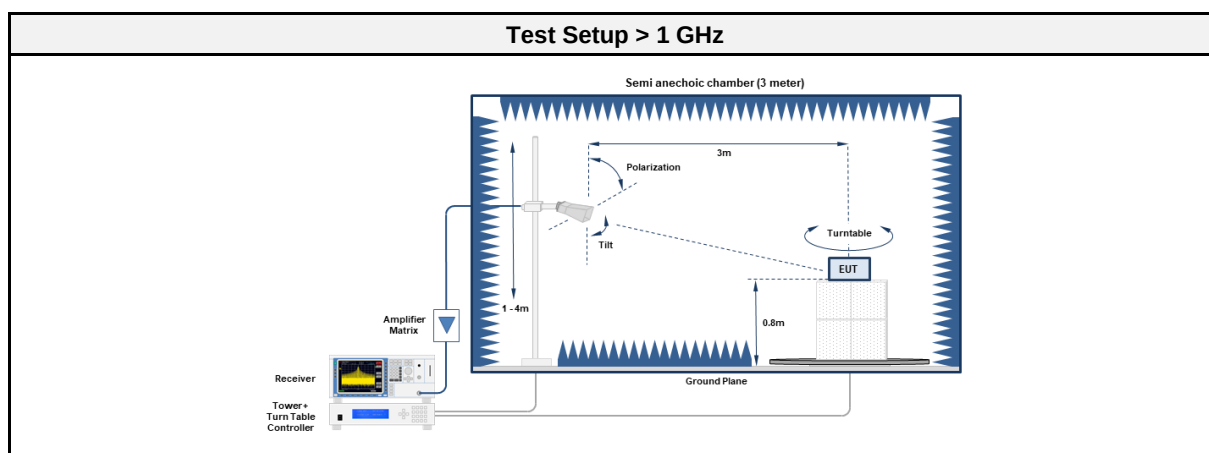
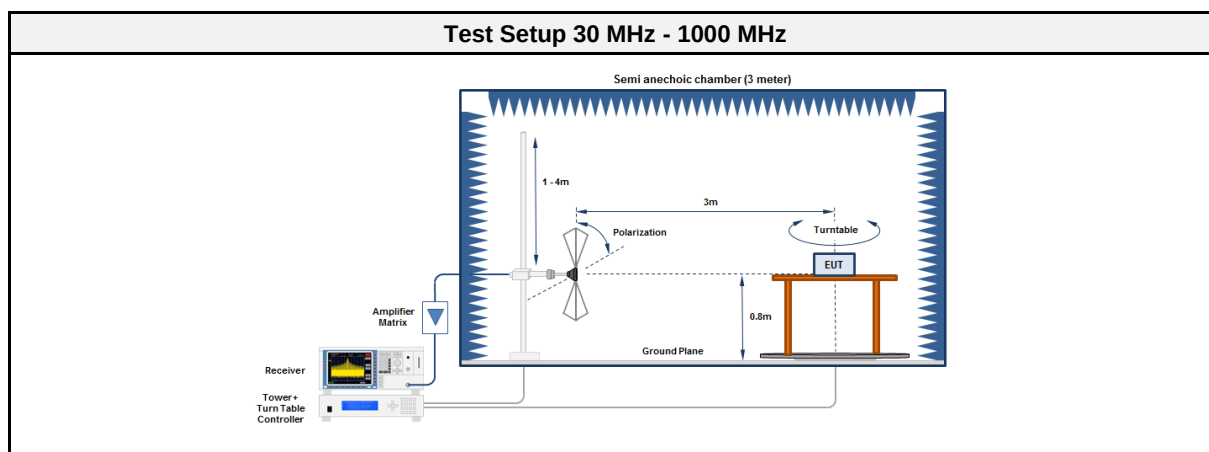
3.2.1 Information

Test Information	
Reference	ISED RSS-247, Issue 3 (section 3.1)
Measurement Uncertainty	± 5.95 dB
Measurement Method	ANSI C63.4-2014 8.1-8.3
Operator	Md Abu Bakar Siddique
Date	2024-09-17

3.2.2 Limits

Limits			
Frequency range [MHz]	Detector	Field strength [$\mu\text{V/m}$]	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 Setup



3.2.4 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	RadiMation	2023.2.6

Test Equipment 30 MHz - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2024-07	2027-07
Test Receiver	Rohde & Schwarz	ESW44	EF01856	2024-04	2025-04
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	EF01824	2022-10	2025-10

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF01011	2024-07	2027-07
Test Receiver	Rohde & Schwarz	ESW44	EF01856	2024-04	2025-04
Horn antenna	Schwarzbeck	BBHA 9120D	EF01561	2021-11	2024-11

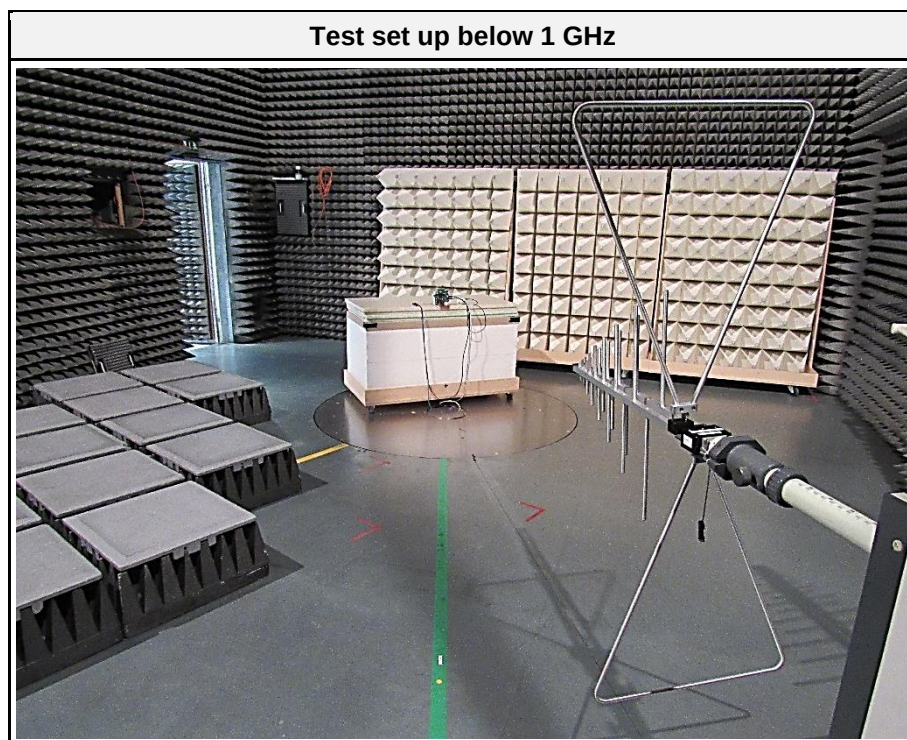
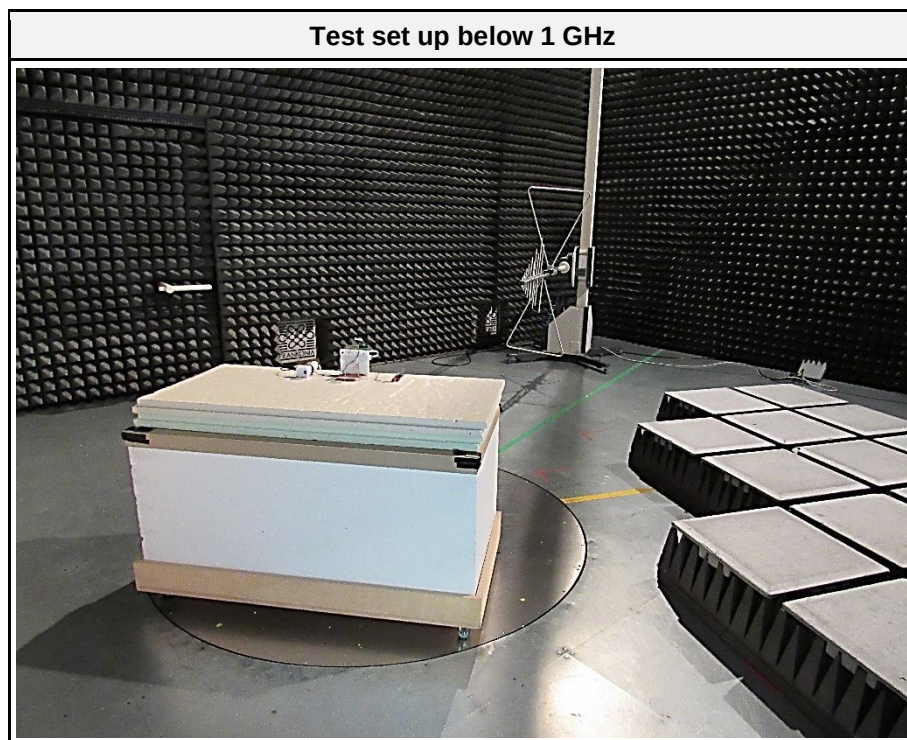
3.2.5 Procedure

Test Procedure
1. EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground 2. EUT is 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

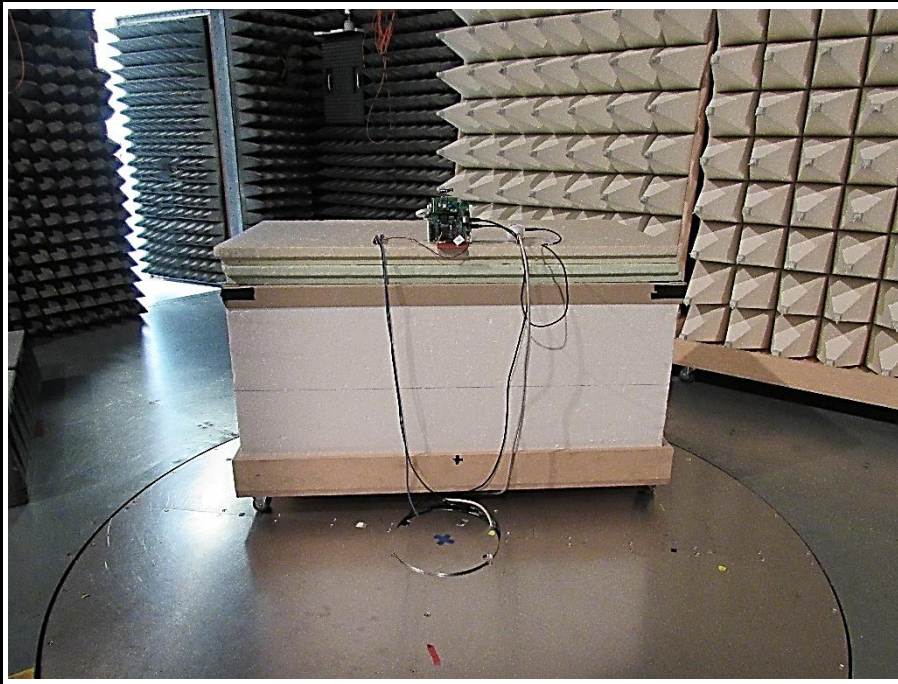
3.2.6 Results

Test Results						
Channel [MHz]	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Margin [dB]
Scan mode	65.2433	27.3	pk	ver	40	-12.65
Scan mode	193.2833	31.8	pk	hor	43.5	-11.66
Scan mode	1919.98	39.62	pk	hor	74	-34.38
Scan mode	1919.98	35.38	avg	hor	53.98	-18.6
Scan mode	11503.635	57.69	pk	ver	74	-16.31
Scan mode	11503.635	44.62	avg	ver	53.98	-9.36

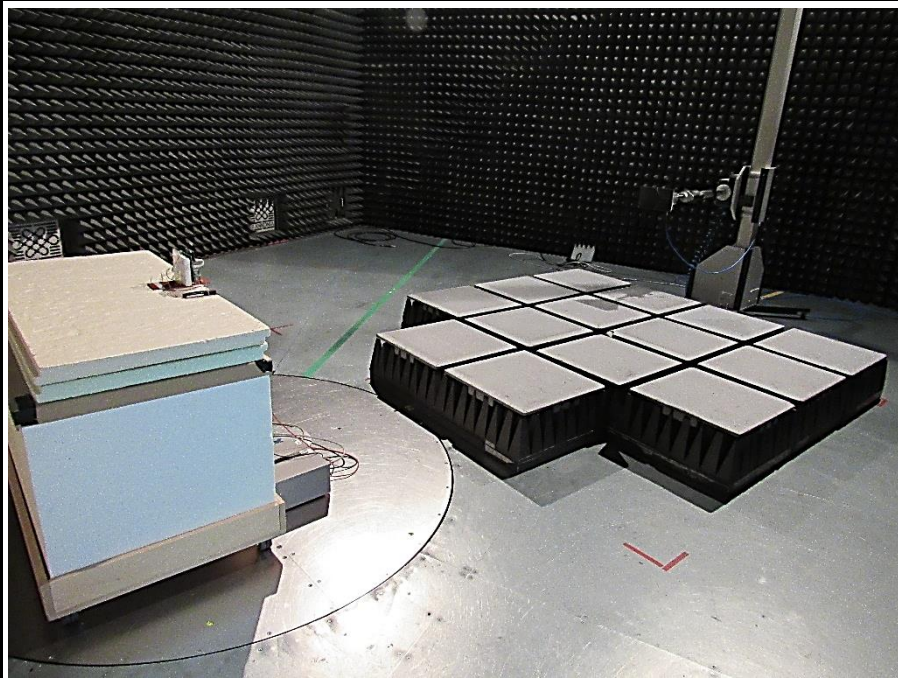
3.2.7 Setup Photos

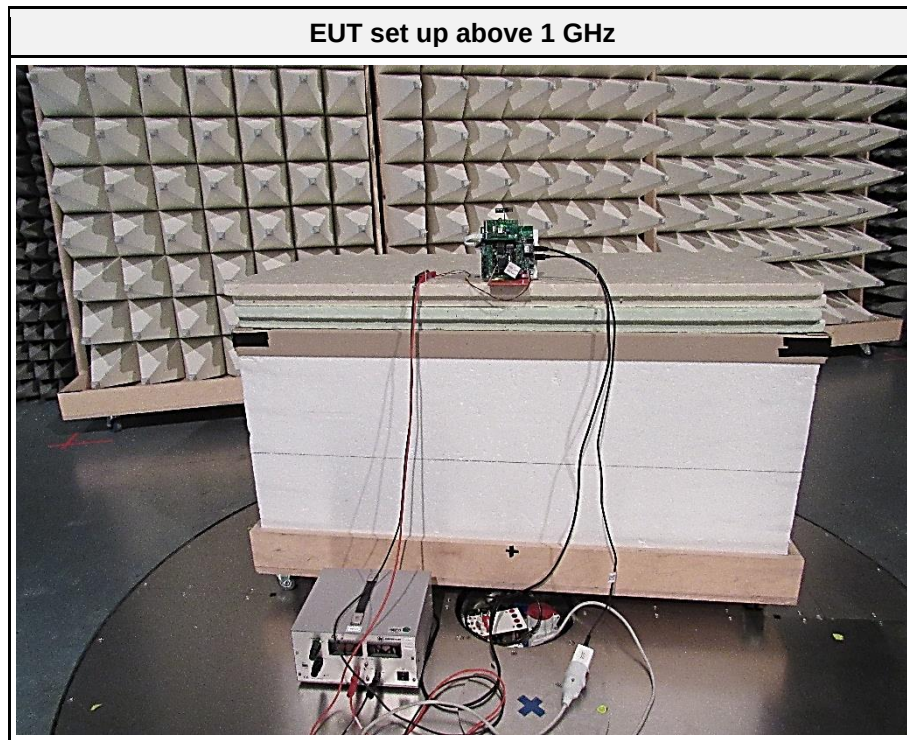


EUT set up below 1 GHz



Test set up above 1 GHz

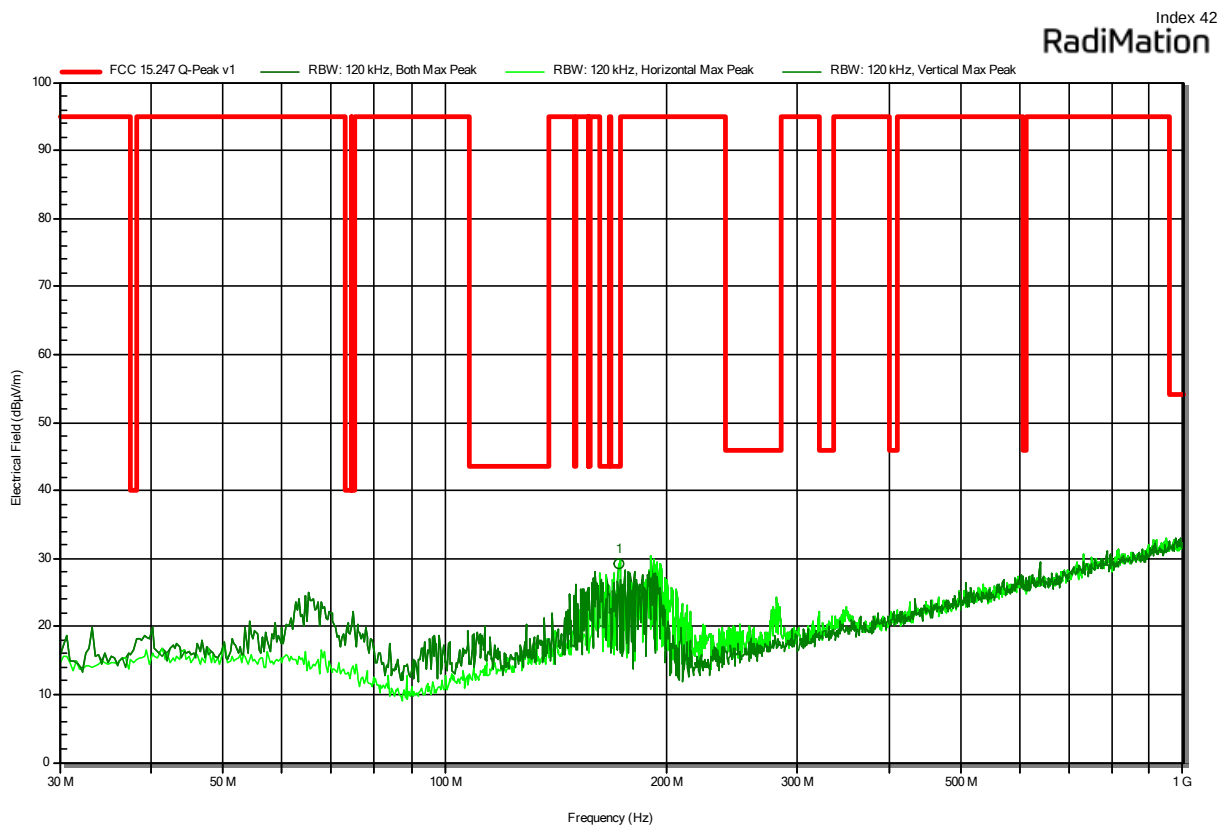




ANNEX A Transmitter spurious emissions

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-Gen, Issue 5

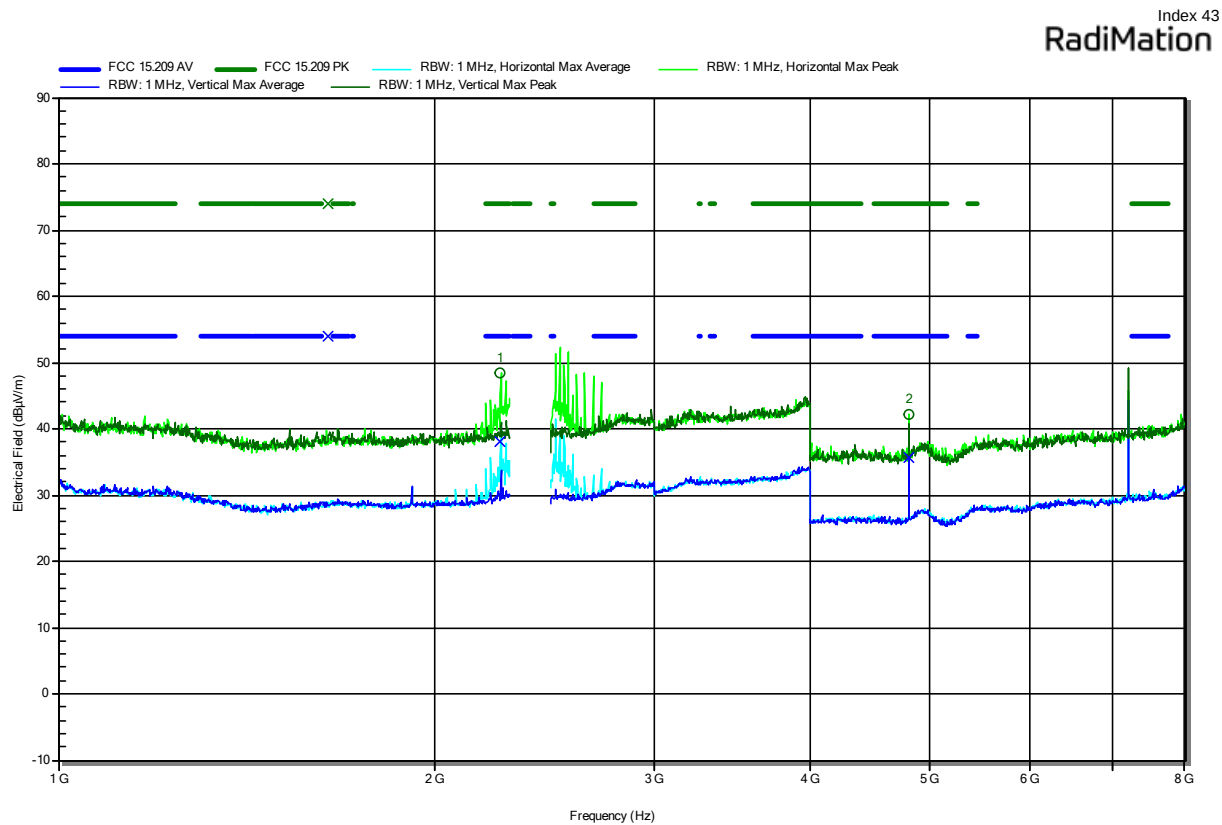
Project Number: G0M-2405-2583
 Applicant: u-blox AG
 Model Description: M.2 card for the MAYA-W2 Wi-Fi 6, Bluetooth 5.3 and IEEE 802.15.4 module
 Model: M2-MAYA-W271-00C
 Test Sample ID: 49021
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2023.2.6
 Test Conditions: Tnom: 22 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; BT_BR_2402 MHz
 Test Date: 2024-09-17



Peak Number	Frequency (MHz)	Peak (dBμV/m)	Peak Limit (dBμV/m)	Peak Difference (dB)	Peak Status	Polarization
1	171.62	29.3	43.5	-14.23	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-Gen, Issue 5

Project Number: G0M-2405-2583
 Applicant: u-blox AG
 Model Description: M.2 card for the MAYA-W2 Wi-Fi 6, Bluetooth 5.3 and IEEE 802.15.4 module
 Model: M2-MAYA-W271-00C
 Test Sample ID: 49021
 Test Site: Eurofins Product Service GmbH
 Operator: Ehsan Sohrabi
 Measurement software: RadiMation, version 2024.1.3
 Test Conditions: Tnom: 22 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BT_BR_2402 MHz
 Test Date: 2024-09-17

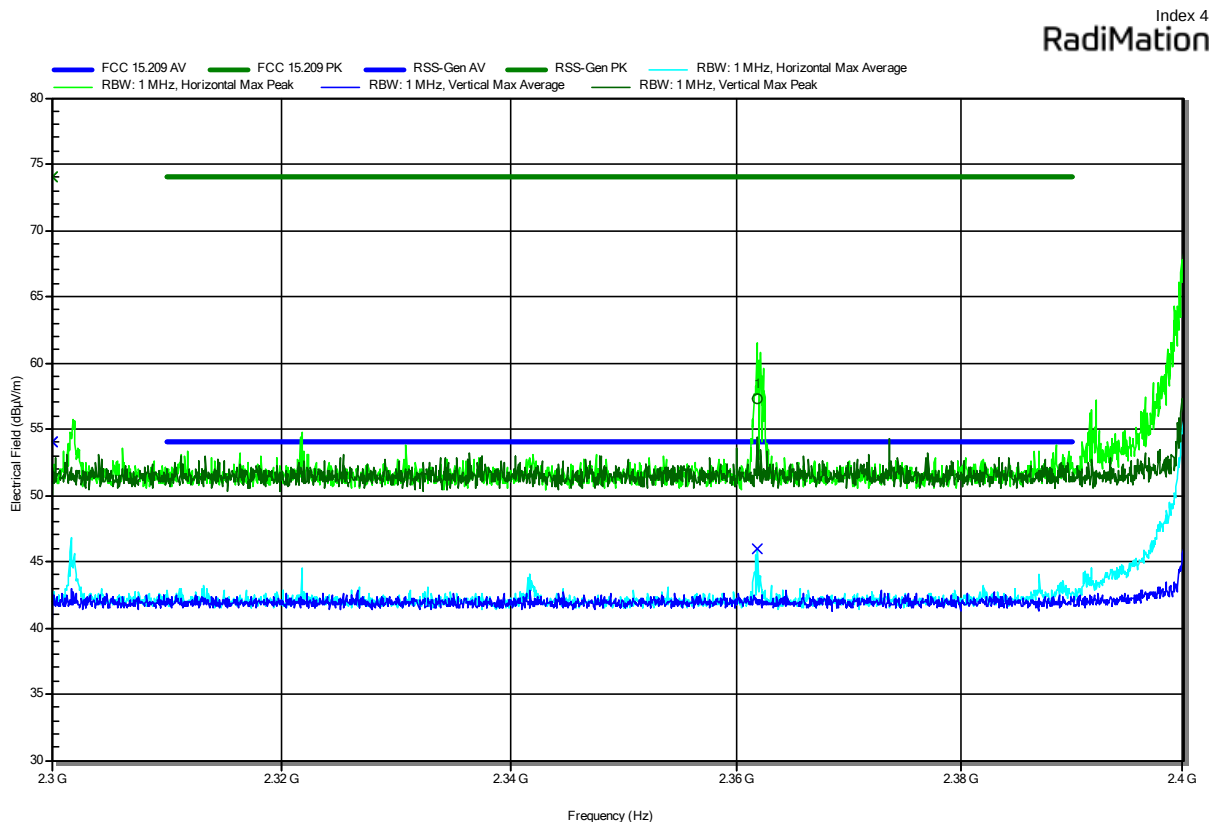


Peak Number	Frequency (MHz)	Peak (dBµV/m)	Peak Limit (dBµV/m)	Peak Difference (dB)	Peak Status	Polarization
1	2261.9533	48.44	74	-25.56	Pass	Horizontal
2	4803.6	42.14	74	-31.86	Pass	Horizontal

Peak Number	Frequency (MHz)	Average (dBµV/m)	Average Limit (dBµV/m)	Average Difference (dB)	Average Status	Polarization
1	2261.9533	38.12	54	-15.88	Pass	Horizontal
2	4803.6	35.58	54	-18.42	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-Gen, Issue 5

Project Number: G0M-2405-2583
 Applicant: u-blox AG
 Model Description: M.2 card for the MAYA-W2 Wi-Fi 6, Bluetooth 5.3 and IEEE 802.15.4 module
 Model: M2-MAYA-W271-00C
 Test Sample ID: 49021
 Test Site: Eurofins Product Service GmbH
 Operator: Ehsan Sohrabi
 Measurement software: RadiMation, version 2024.1.3
 Test Conditions: Tnom: 22 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BT_BR_2402 MHz
 Test Date: 2024-09-17
 Note: lower bandedge



Peak Number	Frequency (MHz)	Peak (dBµV/m)	Peak Limit (dBµV/m)	Peak Difference (dB)	Peak Status	Polarization
1	2361.8967	57.3	74	-16.7	Pass	Horizontal

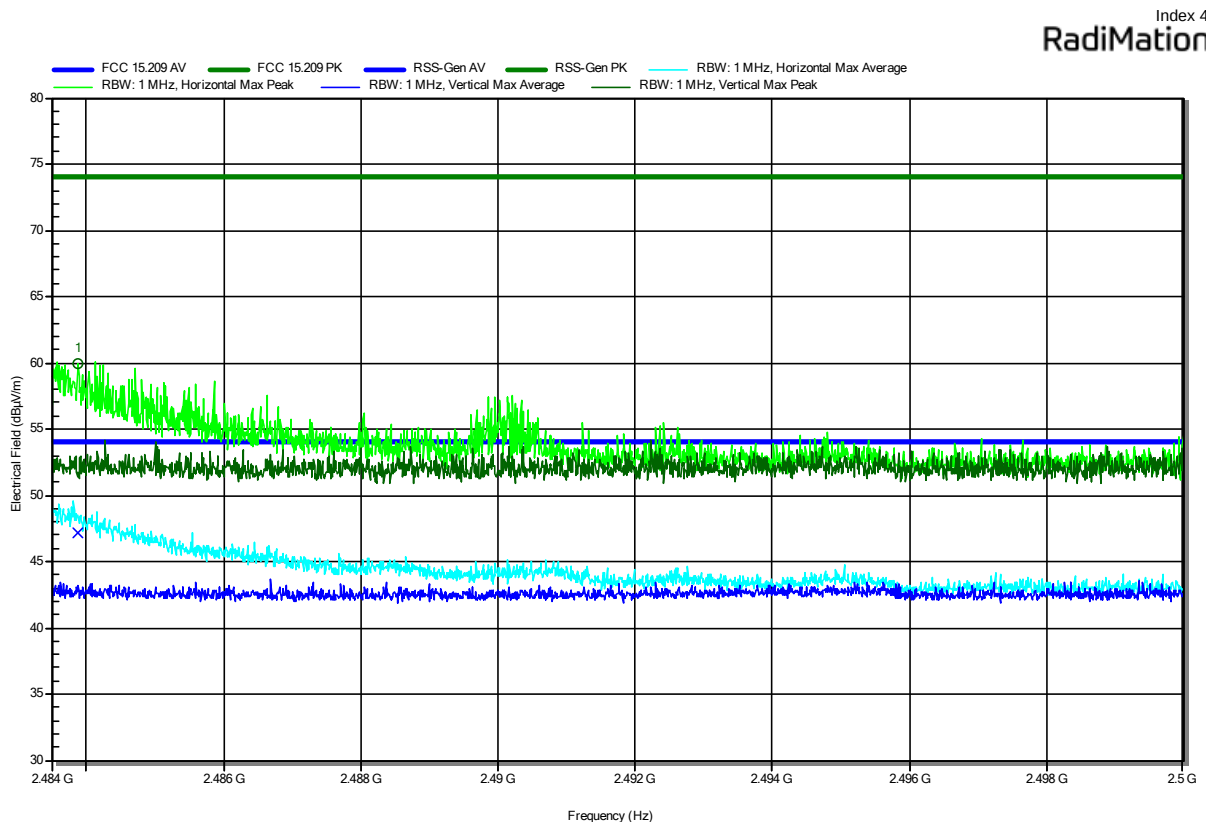
Peak Number	Frequency (MHz)	Average (dBµV/m)	Average Limit (dBµV/m)	Average Difference (dB)	Average Status	Polarization
1	2361.8967	46	54	-8	Pass	Horizontal

Test Report No.: G0M-2405-2583-TFC247BTV01-V01

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

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-Gen, Issue 5

Project Number: G0M-2405-2583
 Applicant: u-blox AG
 Model Description: M.2 card for the MAYA-W2 Wi-Fi 6, Bluetooth 5.3 and IEEE 802.15.4 module
 Model: M2-MAYA-W271-00C
 Test Sample ID: 49021
 Test Site: Eurofins Product Service GmbH
 Operator: Ehsan Sohrabi
 Measurement software: RadiMation, version 2024.1.3
 Test Conditions: Tnom: 22 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BT_BR_2480 MHz
 Test Date: 2024-09-17
 Note: upper bandedge



Peak Number	Frequency (MHz)	Peak (dBμV/m)	Peak Limit (dBμV/m)	Peak Difference (dB)	Peak Status	Polarization
1	2483.8801	59.99	74	-14.01	Pass	Horizontal

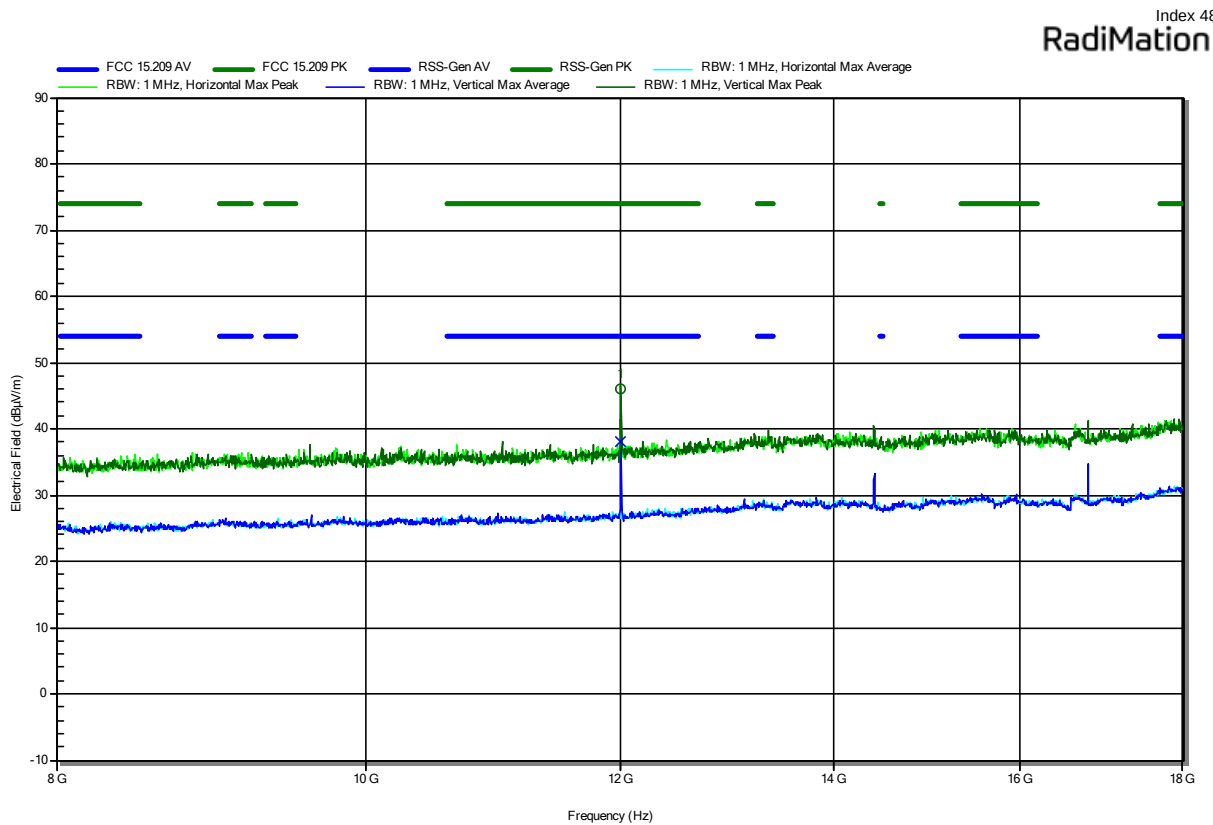
Peak Number	Frequency (MHz)	Average (dBμV/m)	Average Limit (dBμV/m)	Average Difference (dB)	Average Status	Polarization
1	2483.8801	47.16	54	-6.84	Pass	Horizontal

Test Report No.: G0M-2405-2583-TFC247BTv01-V01

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

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-Gen, Issue 5

Project Number: G0M-2405-2583
 Applicant: u-blox AG
 Model Description: M.2 card for the MAYA-W2 Wi-Fi 6, Bluetooth 5.3 and IEEE 802.15.4 module
 Model: M2-MAYA-W271-00C
 Test Sample ID: 49021
 Test Site: Eurofins Product Service GmbH
 Operator: Ehsan Sohrabi
 Measurement software: RadiMation, version 2024.1.3
 Test Conditions: Tnom: 22 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; BT_BR_2402 MHz
 Test Date: 2024-09-17



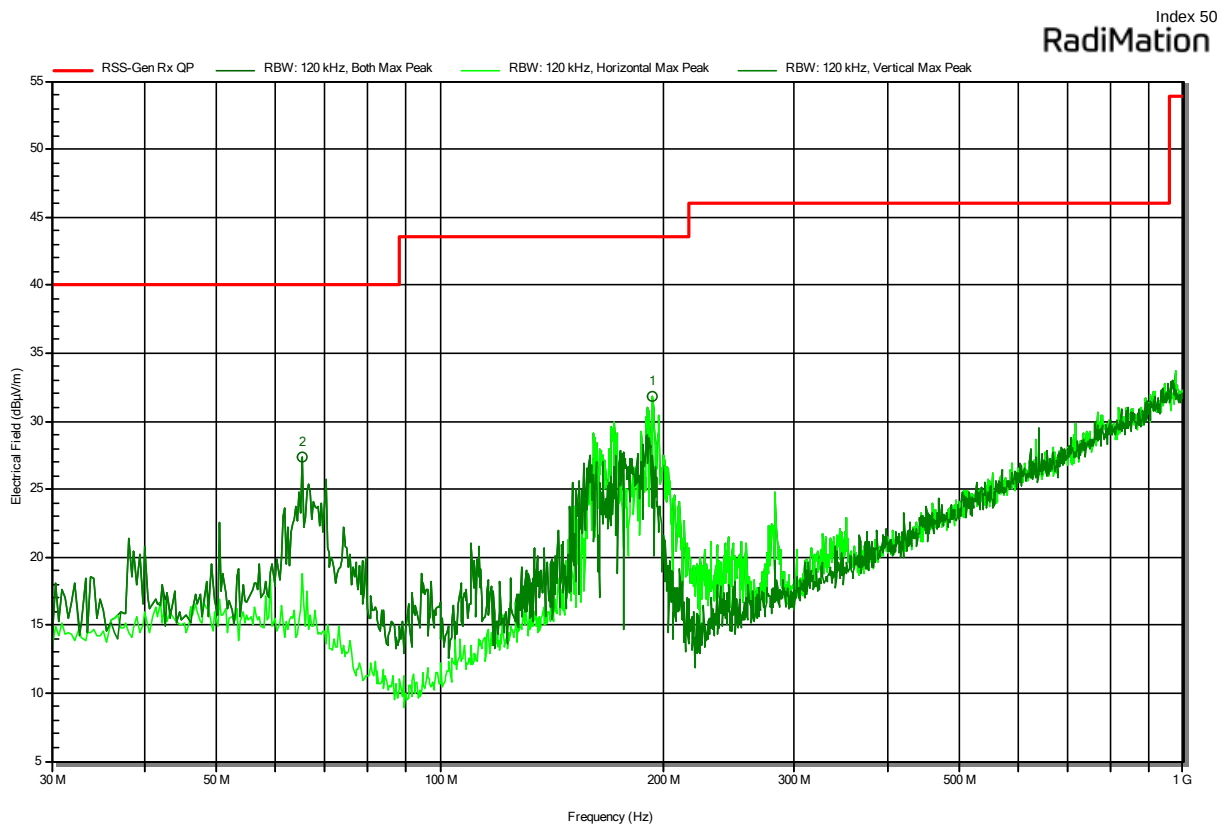
Peak Number	Frequency (MHz)	Peak (dBµV/m)	Peak Limit (dBµV/m)	Peak Difference (dB)	Peak Status	Polarization
1	12009.096	45.96	74	-28.04	Pass	Vertical

Peak Number	Frequency (MHz)	Average (dBµV/m)	Average Limit (dBµV/m)	Average Difference (dB)	Average Status	Polarization
1	12009.096	37.98	54	-16.02	Pass	Vertical

ANNEX B Receiver spurious emissions

Radiated Spurious Emissions according to RSS-Gen Issue 5, RSS-247 Issue 3

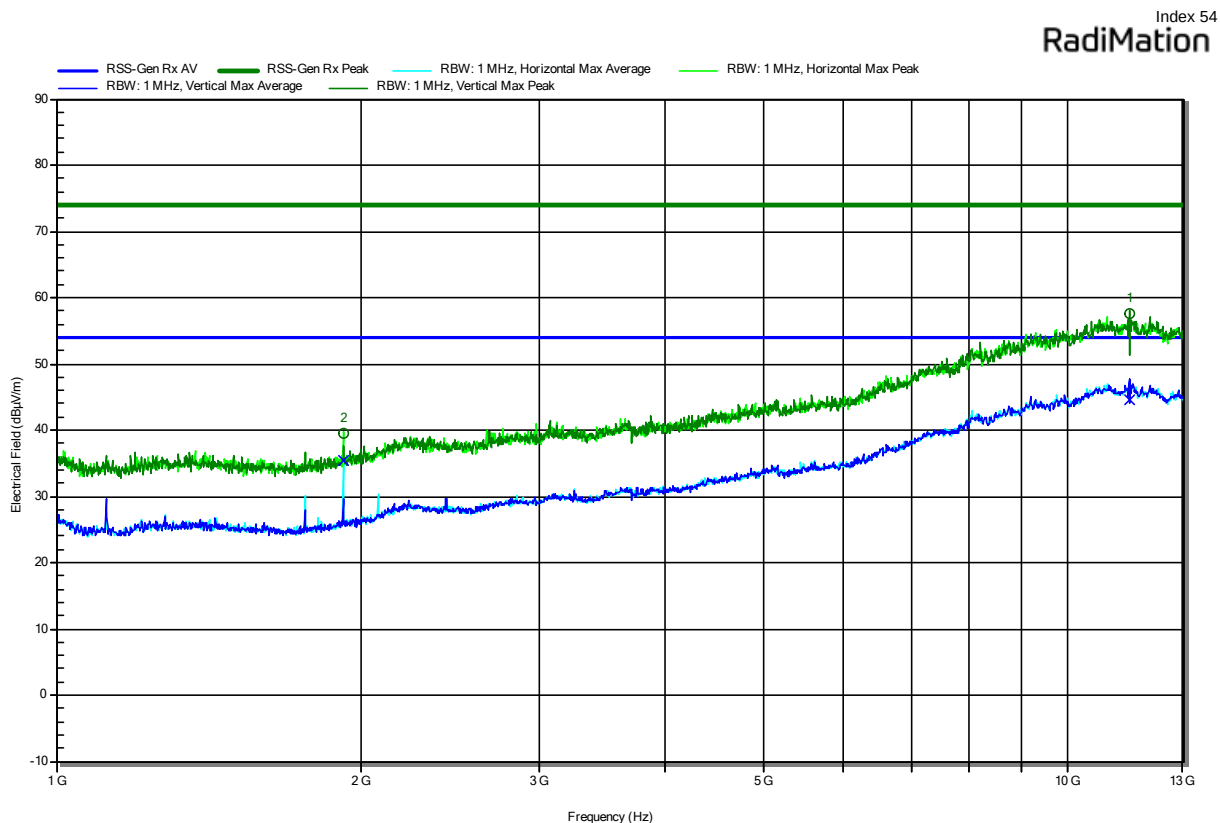
Project Number: G0M-2405-2583
 Applicant: u-blox AG
 Model Description: M.2 card for the MAYA-W2 Wi-Fi 6, Bluetooth 5.3 and IEEE 802.15.4 module
 Model: M2-MAYA-W271-00C
 Test Sample ID: 49021
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2023.2.6
 Test Conditions: Tnom: 25 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Rx; BT_BR_Scan mode
 Test Date: 2024-09-17



Peak Number	Frequency (MHz)	Peak (dBµV/m)	Peak Limit (dBµV/m)	Peak Difference (dB)	Peak Status	Polarization
1	193.2833	31.8	43.5	-11.66	Pass	Horizontal
2	65.2433	27.3	40	-12.65	Pass	Vertical

Radiated Spurious Emissions according to RSS-Gen Issue 5, RSS-247 Issue 3

Project Number: G0M-2405-2583
 Applicant: u-blox AG
 Model Description: M.2 card for the MAYA-W2 Wi-Fi 6, Bluetooth 5.3 and IEEE 802.15.4 module
 Model: M2-MAYA-W271-00C
 Test Sample ID: 49021
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2023.2.6
 Test Conditions: Tnom: 25 °Celsius, Vnom: 3.3 VDC
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Rx; BT_BR_Scan mode
 Test Date: 2024-09-17



Peak Number	Frequency (MHz)	Peak (dBµV/m)	Peak Limit (dBµV/m)	Peak Difference (dB)	Peak Status	Polarization
1	11503.635	57.69	74	-16.31	Pass	Vertical
2	1919.98	39.62	74	-34.38	Pass	Horizontal

Peak Number	Frequency (MHz)	Average (dBµV/m)	Average Limit (dBµV/m)	Average Difference (dB)	Average Status	Polarization
1	11503.635	44.62	53.98	-9.36	Pass	Vertical
2	1919.98	35.38	53.98	-18.6	Pass	Horizontal

=== End of test report ===

Test Report No.: G0M-2405-2583-TFC247BTv01-V01

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