

EMC TEST REPORT

Title 47 CFR Part 15B, ISED ICES-003 Issue 7

Report Reference No	G0M-2201-1252-EF0115B-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	   A2LA - Registration number: 1983.01 (ISED) ISED wireless device testing laboratory: CN 3470A DAkkS - Registration number : D-PL-12092-01-04 (FCC) FCC Filed Test Laboratory, Reg.-No.: 96970
Applicant	NOWATCH BV
Address	Prinsengracht 769 1017 JZ AMSTERDAM Netherlands
Test Specification Standard(s)	Title 47 CFR Part 15 Subpart B ISED ICES-003 Issue 7 ANSI C63.4:2014+A1:2017
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	NOWATCH AWEARABLE Bluetooth Bracelet
Model(s)	NX
Additional Model(s)	None
Brand Name(s)	None
Hardware Version(s)	0401
Software Version(s)	2022.02.18.1
FCC-ID	2A35XNX
IC	28449-NX
Test Result	PASSED

Possible test case verdicts:		
required by standard but not tested	N/T	
not required by standard	N/R	
required by standard but not appl. to test object	N/A	
test object does meet the requirement	P(PASS)	
test object does not meet the requirement	F(FAIL)	
Testing:		
Date of receipt of test item	2022-03-07	
Report:		
Compiled by	Matthias Handrik	
Tested by (+ signature) (Responsible for Test)	Matthias Handrik	
Approved by (+ signature) (Deputy Head of Lab)	Jens Marquardt	
Date of Issue	2022-05-18	
Total number of pages	47	
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:		
		

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
EUT	Equipment Under Test
FCC	Federal Communications Commission
ISED	Innovation, Science and Economic Development Canada
T _{NOM}	Nominal operating temperature
V _{NOM}	Nominal supply voltage

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2022-05-18	Initial Release	-

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1 Equipment (Test Item) Under Test

Description	NOWATCH AWEARABLE Bluetooth Bracelet	
Intended Use	EUT is a bracelet for measures stress, temperature, heart rate, movement and sleep.	
Model	NX	
Additional Model(s)	None	
Brand Name(s)	None	
Serial Number(s)	"Prototype"	
Sample ID	38829	
Hardware Version(s)	0401	
Software Version(s)	2022.02.18.1	
EUT Dimensions [cm]	Diameter: 3.7; thinckness max.: 1.14	
FCC-ID	2A35XNX	
IC	28449-NX	
Class	Class B	
Equipment type	Table top	
Highest internal frequency [MHz]	150 clock frequency; 2480 (RF frequency)	
Protective Earth	No	
Radio Module	Type	Bluetooth Low Energy module
	Model	Unspecified
	Manufacturer	Unspecified
	FCC-ID	Unspecified
	IC	Unspecified
Supply Voltage	V _{NOM}	3.85 VDC (internal lithium battery)
AC/DC-Adaptor	None	
Manufacturer	NOWATCH BV Prinsengracht 769 1017 JZ AMSTERDAM Netherlands	
Factory	Sanmina-SCI EMS Haukipudas Oy Teollisuustie 1 90830 Oulu Finland	

1.1 Equipment Ports

Name	Type	Attributes	Comment
		-	
Description:			
AC	AC mains power input/output port		
DC	DC power input/output port		
BAT	DC power input port connected to external battery		
IO	Input/Output port		
TP	Telecommunication port		
NE	Non-electrical port		

1.4 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE	Laptop	Lenovo	ThinkBook	Customer Support Equipment
AE	Charging adaptor	NOWATCH	NXC	Customer Support Equipment
AE	AC/DC adaptor	Apple	A2118	Customer Support Equipment
CBL	USB A to C cable	NOWATCH	“50cm”	Customer Support Equipment

Description:

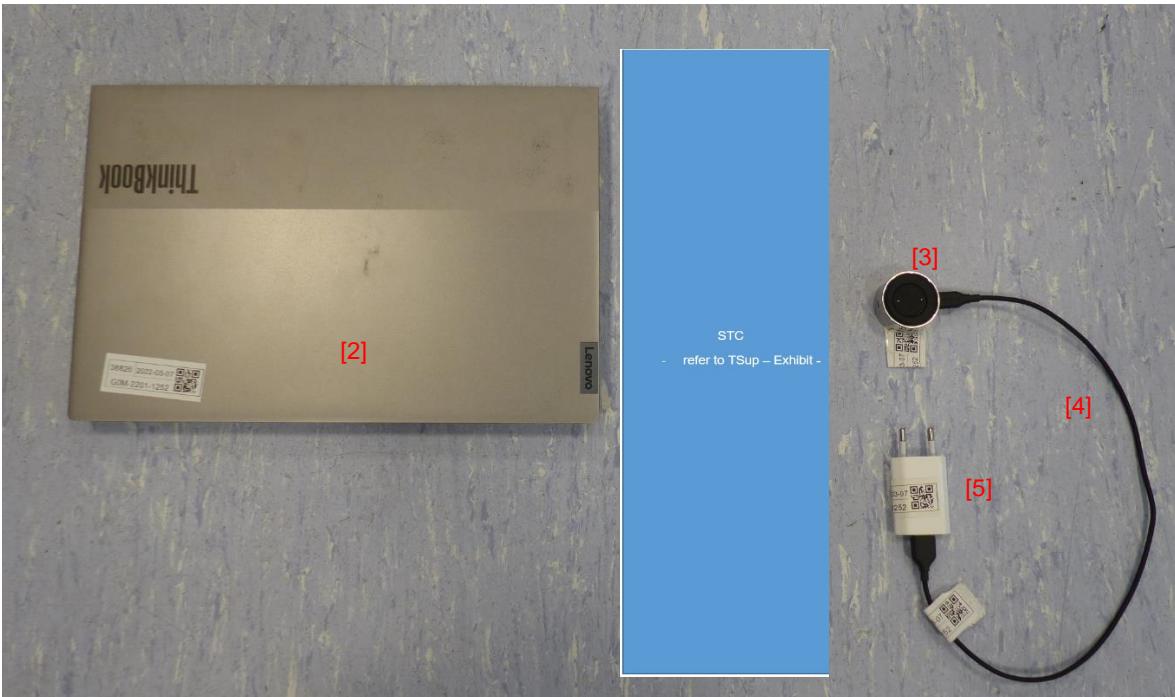
AE	Auxiliary Equipment
SIM	Simulator
MON	Monitoring Equipment
CBL	Connecting Cable

Comment:

1.5 Operational Modes

Mode #	Description
1	Sensors on and continuous payload data transmit over Bluetooth Low Energy.
2	Charging
Comment:	

1.6 EUT Configuration

Configuration #	Description
[2]	
1	Laptop [2] provide python scripts to setting up the EUT [1] via Bluetooth Low Energy connection. After setting up, Laptop shows continuously data stream of the sensor data from EUT.
2	For charging mode, EUT [1] where placing on the charging adaptor [3]. The charging adaptor is connected via USB A to USB C cable [4] to example AC/DC adaptor [5].
Comment:	

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 analyser in dB μ V. Any external preamplifiers used are taken into account through internal analyser 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 analyser. 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:

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

Net:

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

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:

$$\text{Limit (dB}\mu\text{V/m)} = 20 * \log (\mu\text{V/m})$$

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.

Example only:

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

2 Result Summary

Title 47 CFR Part 15B, ISED ICES-003 Issue 7				
Reference	Requirement	Reference Method	Result	Remarks
Emission				
FCC 15.109 ICES-003, 3.2.2	Radiated emissions	ANSI C63.4:2014 +A1:2017	PASS	-
FCC 15.107 ICES-003, 3.2.1	AC power line conducted emissions	ANSI C63.4:2014 +A1:2017	PASS	-
Comment:				

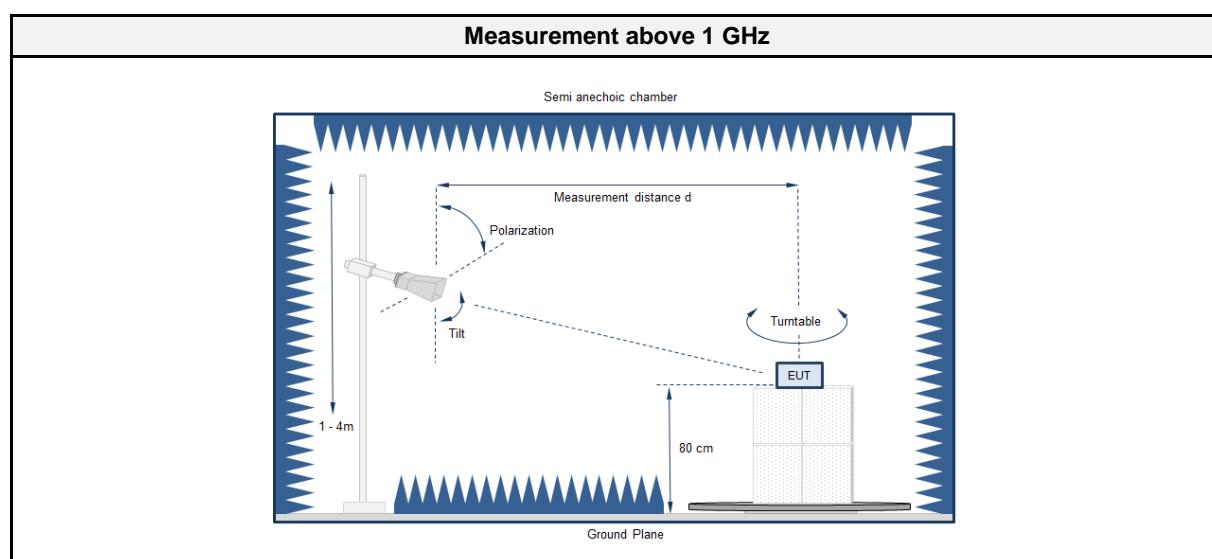
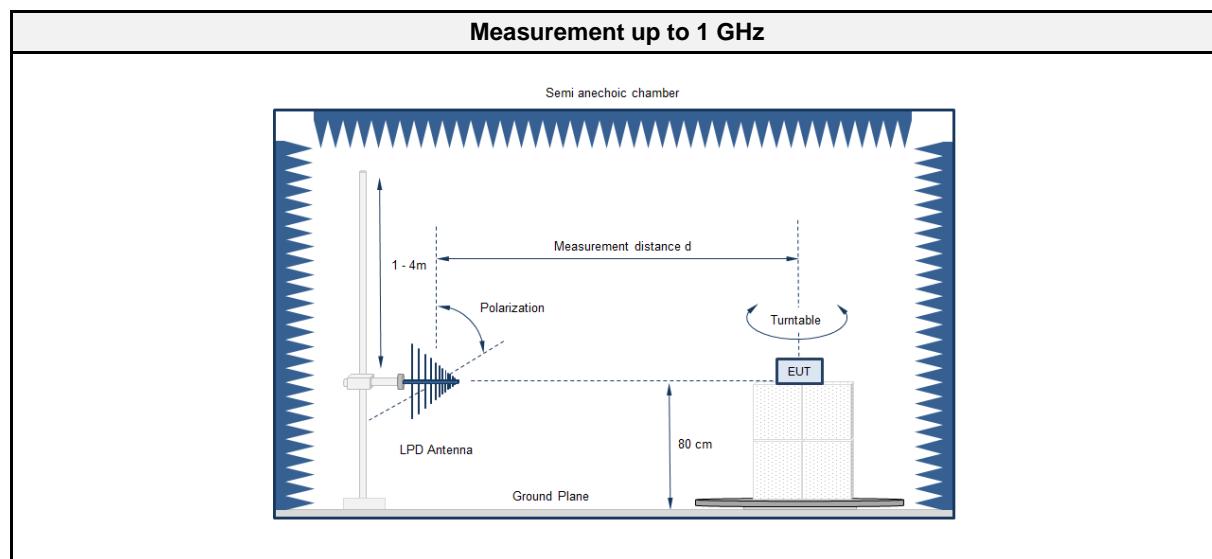
Possible Test Case Verdicts	
PASS	Test object does meet the requirements
FAIL	Test object does not meet the requirements
N/T	Required by standard but not tested
N/R	Not required by standard for the test object

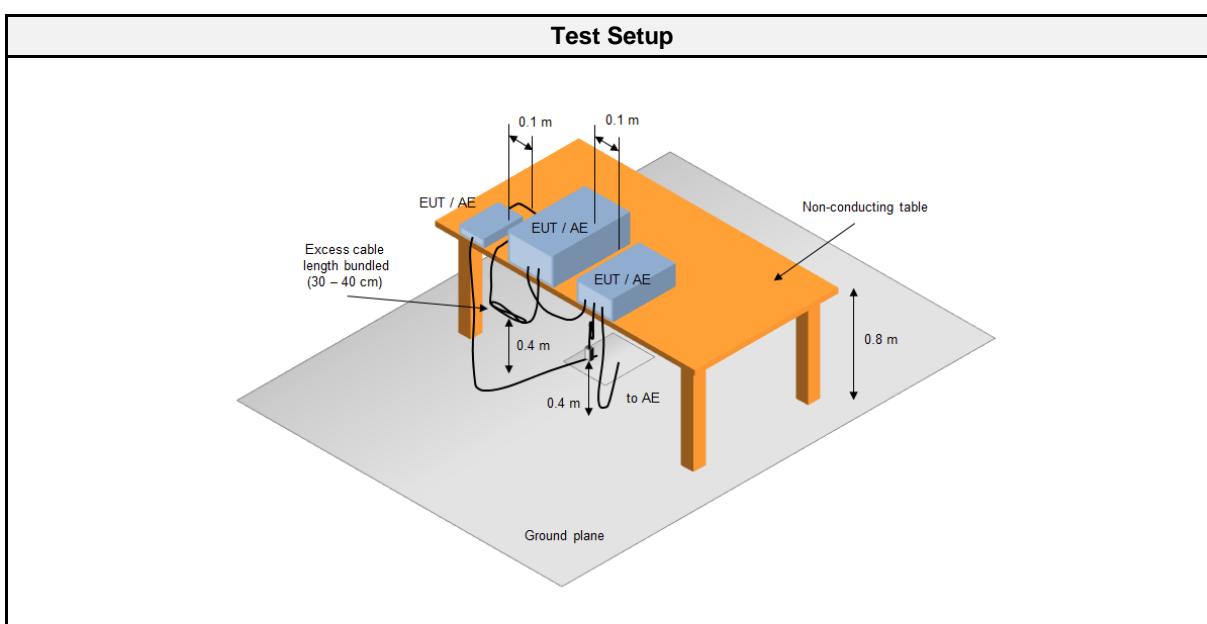
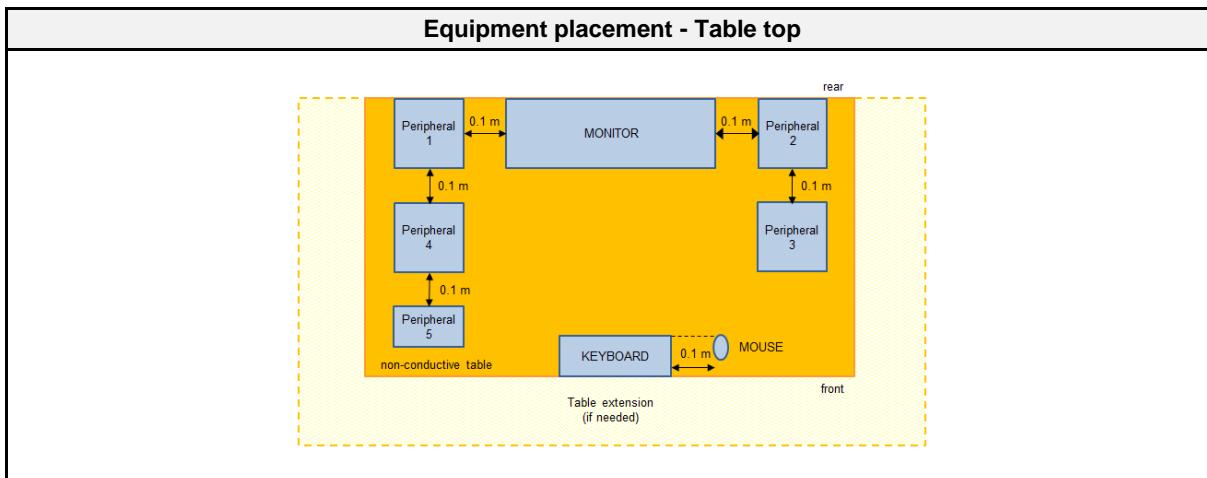
2.1 Test Conditions and Results - Radiated emissions acc. to ANSI C63.4

2.1.1 Information

Test Information	
Reference	FCC 15.109, ICES-003, 3.2.2
Reference method	ANSI C63.4:2014+A1:2017 Section 8
Equipment class	Class B
Equipment type	Table top
Highest internal frequency [MHz]	2480
Measurement range	30 MHz to 13000 MHz
Temperature [°C]	20 ±3
Humidity [%]	28 ±3
Operator	Matthias Handrik
Date	2022-03-28

2.1.2 Setup





2.1.3 Equipment

Test Software					
Description	Manufacturer	Name		Version	
EMC Software	DARE Instruments	Radimation		2020.1.8	

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic chamber (NSA)	Frankonia	AC1	EF00062	2021-02	2024-02
Anechoic chamber (SVSWR)	Frankonia	AC 1	EF01011	2019-06	2022-06
Programmable AC Source	Chroma ATE Inc.	61604	EF01068	2021-07	2022-07
EMI Test Receiver	Keysight	N9038A-526/WXP	EF01070	2021-07	2022-07
Biconical Antenna	R&S	HK 116	EF00030	2021-05	2024-05
LPD Antenna	R&S	HL 223	EF00187	2019-05	2022-05
Horn Antenna	Schwarzbeck	BBHA9120D	EF00018	2019-10	2022-10
Notch filter	Wainwright Instruments GmbH	WRCT 24000/2497-80-20SS	EF00098	verification	verification
Climatic Sensor	Embedded Data Systems, LLC.	2800100000254 17E	EF01054	2021-03	2022-03

2.1.4 Procedure

Exploratory measurement
<ol style="list-style-type: none"> 1. The EUT was placed on a non-conductive table at a height of 0.8m. 2. The EUT and support equipment, if needed, were set up to simulate typical usage. 3. Cables, of type and length specified by the manufacturer, were connected to at least one port of each type and were terminated by a device or simulating load of actual usage. 4. The antenna was placed at a distance of 3 or 10 m. 5. The received signal was monitored at the measurement receiver. 6. This procedure has to be performed in both antenna polarizations, horizontal and vertical. 7. The arrangement of the equipment with the maximum emission level is shown on the setup picture at item 2.1.2

Final measurement
<ol style="list-style-type: none"> 1. The EUT was placed on a 0.8 m non-conductive table at a 3 m distance from the receive antenna. The antenna output was connected to the measurement receiver. 2. A biconical antenna was used for the frequency range 30 – 200 MHz, a logarithmic periodical antenna was used for the frequency range from 200 – 1000 MHz. Above one 1 GHz a Double Ridged Broadband Horn antenna was used. The antenna was placed on an adjustable height antenna mast. 3. The EUT and cable arrangement were based on the exploratory measurement results. 4. Emissions were maximized at each frequency by rotating the EUT and adjusting the receive antenna height and polarization. The maximum values were recorded. 5. The test data of the worst-case conditions were recorded and shown on the next pages.

2.1.5 Limits

Class B @ 3 m		
Frequency [MHz]	Detector	Limit [dB μ V/m]
30 - 88	Quasi-peak	40
88 - 216	Quasi-peak	43.5
216 - 960	Quasi-peak	46
960 - 1000	Quasi-peak	54
> 1000	Peak Average	74 54

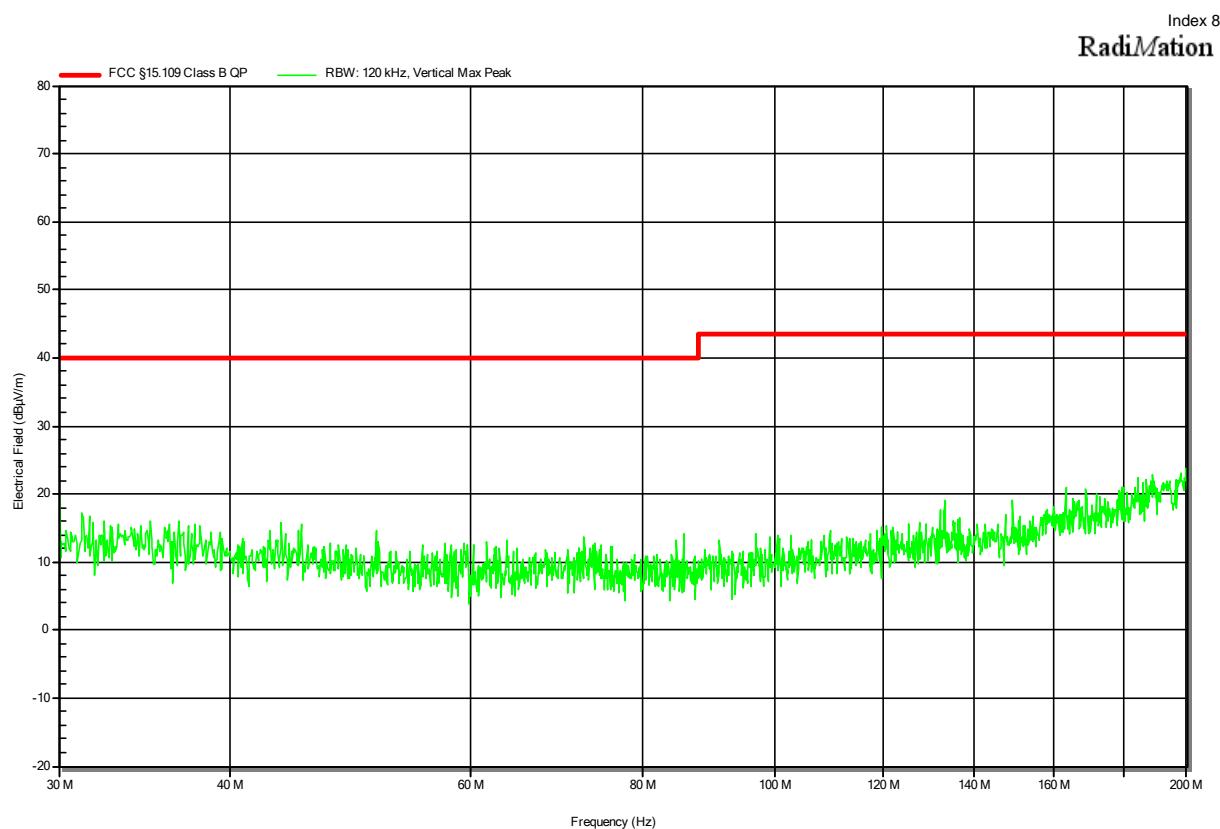
2.1.6 Results

Test Results			
Operational mode	EUT Configuration	Verdict	Remark
1	1	PASS	-
2	2	PASS	-

2.1.8 Records

**Radiated emissions
according to FCC part 15B**

Project Number: G0M-2201-1252
Applicant: NOWATCH BV
Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
Model: NX
Test Sample ID: 38829
Test Site: Eurofins Product Service GmbH
Operator: Mr. Handrik
Test Date: 2022-03-28
Operating Conditions: ambient temperature: 20 °Celsius
power input: 3.85V DC
Antenna: Rohde & Schwarz HK 116, Vertical
Measurement Distance: 3m
Operational Mode: 1
EUT Configuration: 1
Note 1:



Test Report No.: G0M-2201-1252-EF0115B-V01

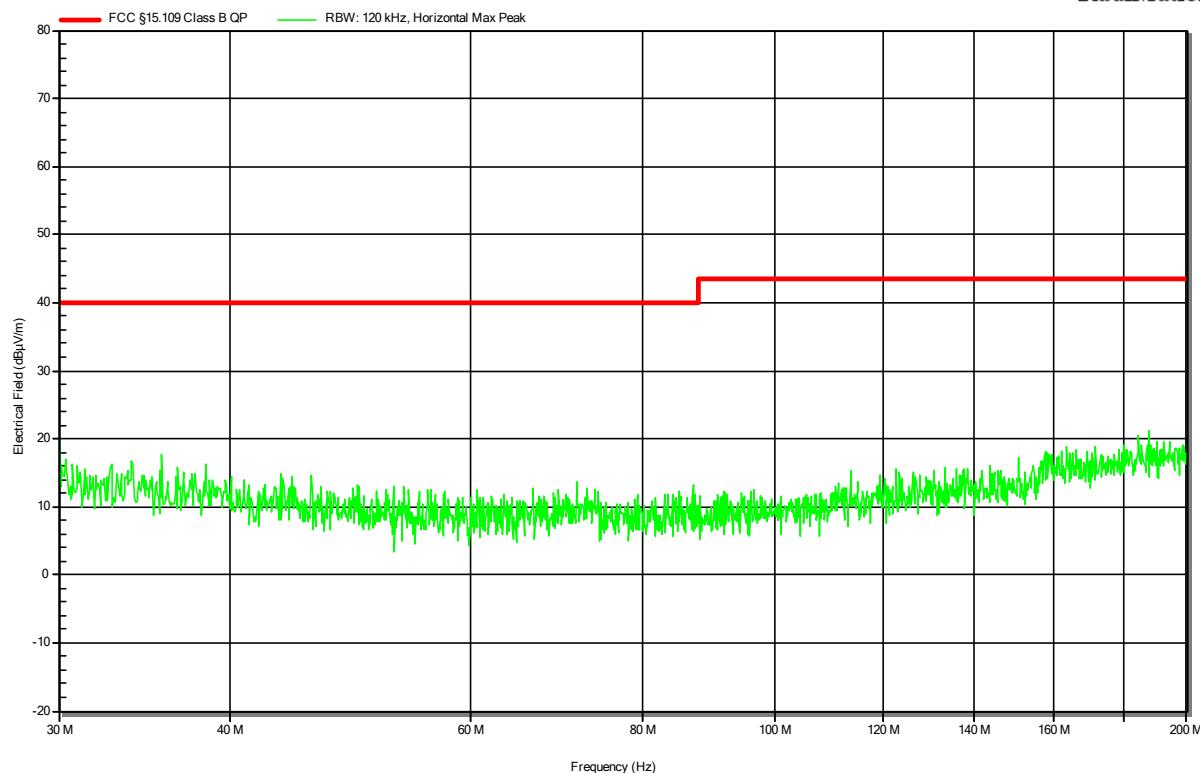
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

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Operator: Mr. Handrik
Test Date: 2022-03-28
Operating Conditions: ambient temperature: 20 °Celsius
power input: 3.85
Antenna: Rohde & Schwarz HK 116, Horizontal
Measurement Distance: 3m
Operational Mode: 1
EUT Configuration: 1

Note 1:

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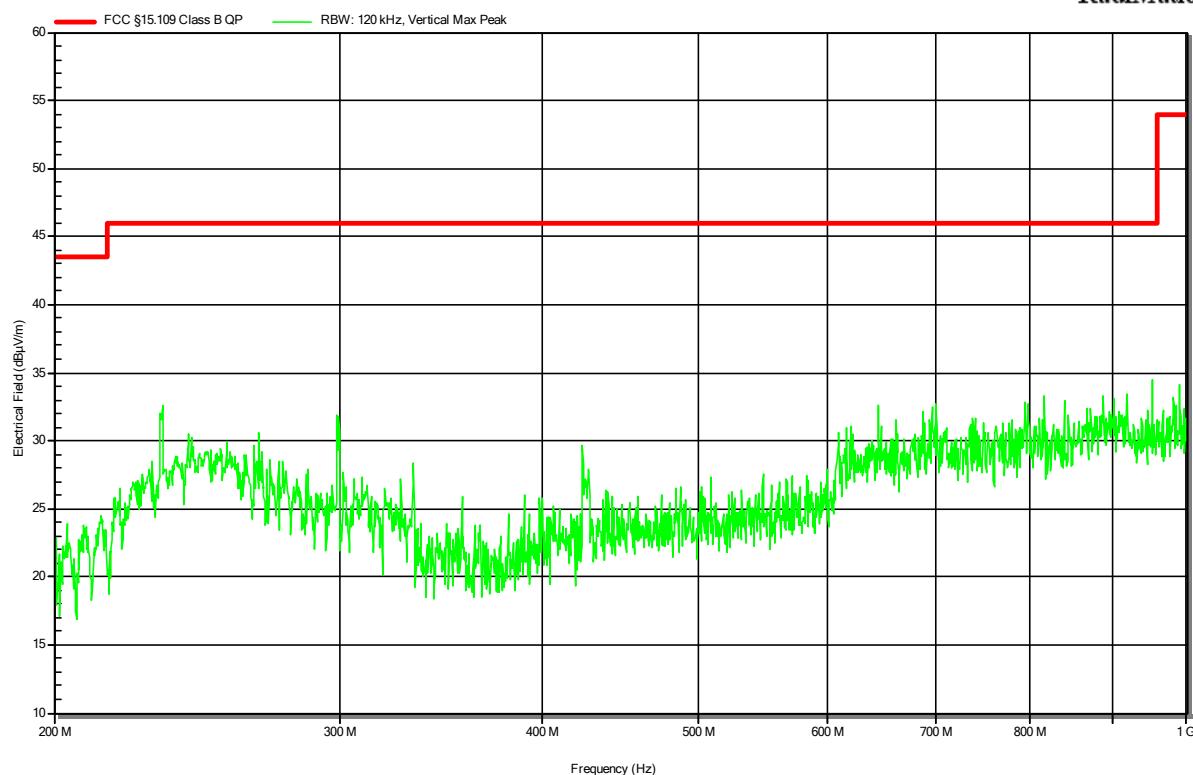
Radiation

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Model: NX
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Operator: Mr. Handrik
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Operating Conditions: ambient temperature: 20 °Celsius
power input: 3.85V DC
Antenna: Rohde & Schwarz HL 223, Vertical
Measurement Distance: 3m
Operational Mode: 1
EUT Configuration: 1

Note 1:

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Radiation

Test Report No.: G0M-2201-1252-EF0115B-V01

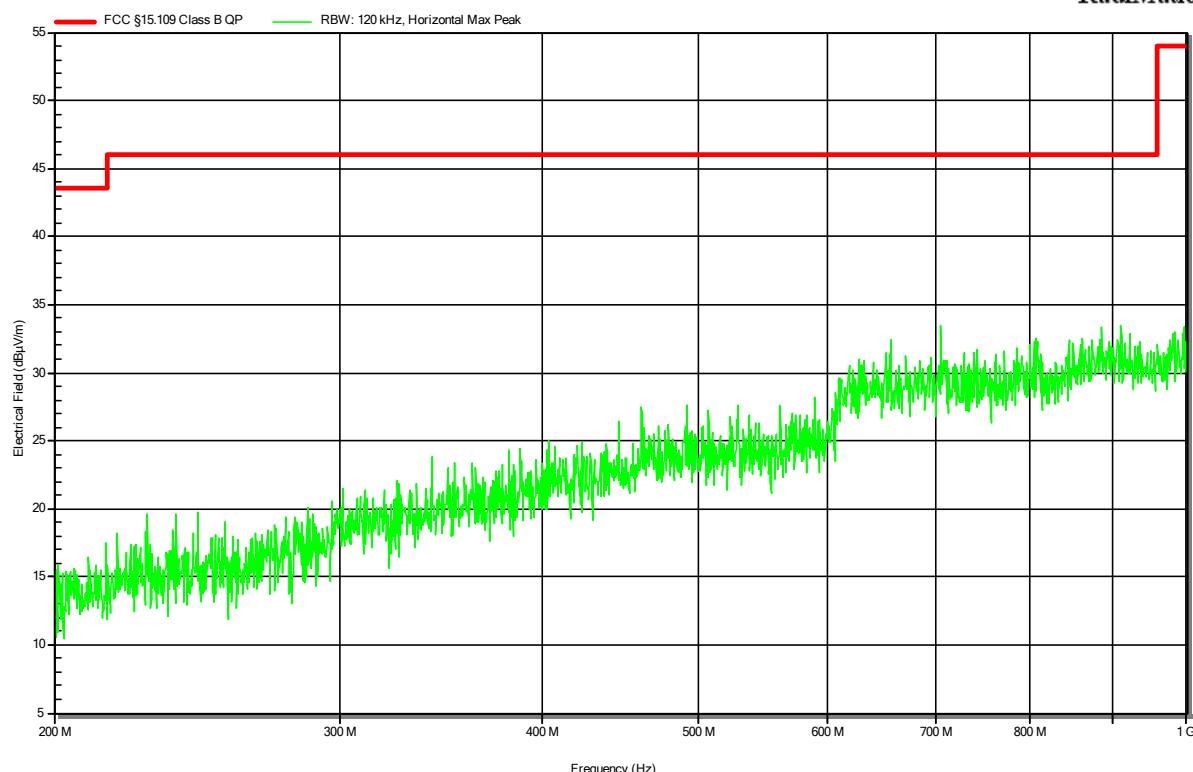
Eurofins Product Service GmbH
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Test Date: 2022-03-28
Operating Conditions: ambient temperature: 20 °Celsius
power input: 3.85V DC
Antenna: Rohde & Schwarz HL 223, Horizontal
Measurement Distance: 3m
Operational Mode: 1
EUT Configuration: 1

Note 1:

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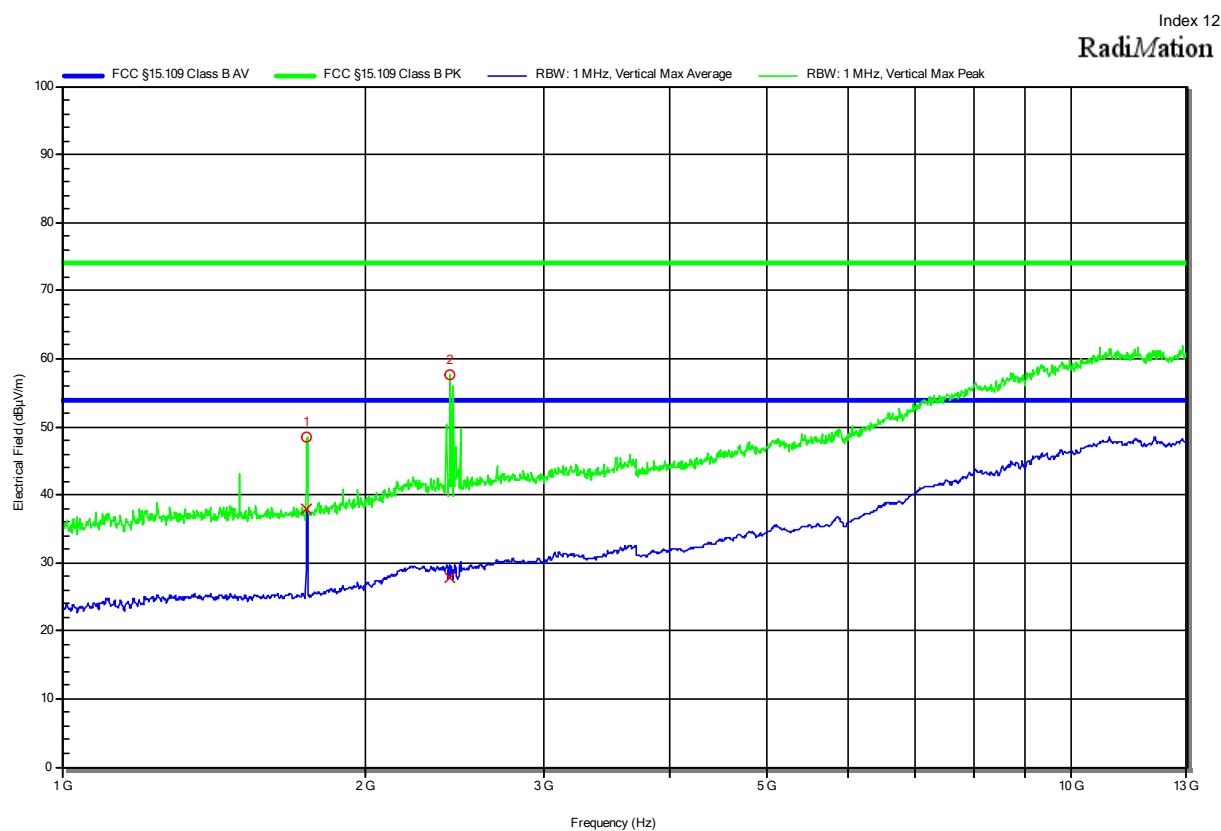
Radiation

Test Report No.: G0M-2201-1252-EF0115B-V01

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

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 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38829
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2022-03-28
 Operating Conditions: ambient temperature: 20 °Celsius
 power input: 3.85V DC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement Distance: 3m
 Operational Mode: 1
 EUT Configuration: 1
 Note 1: 2.4GHz Notchfilter



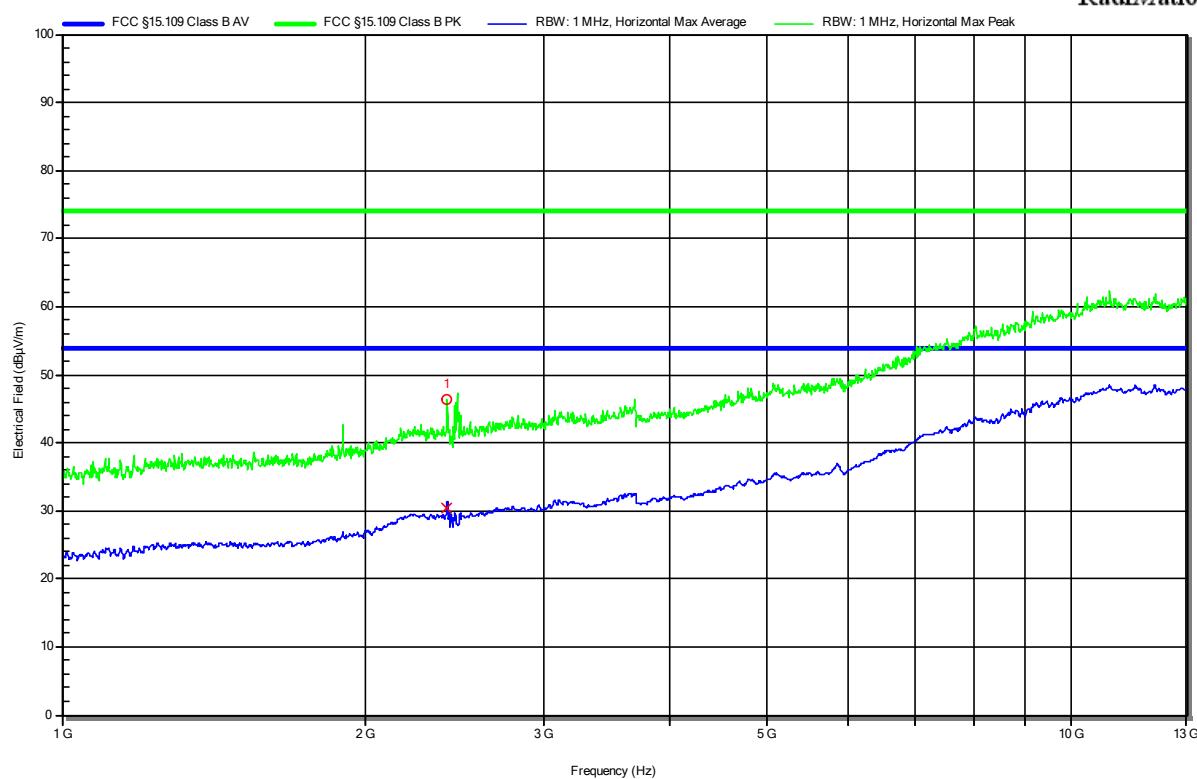
Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	1.749 GHz	48.43 dB μ V/m	73.98 dB μ V/m	-25.55 dB	Pass	0 degrees	1 m
2	2.424 GHz	Bluetooth Low Energy carrier					

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	Angle	Height
1	1.749 GHz	37.9 dB μ V/m	53.98 dB μ V/m	-16.08 dB	Pass	0 degrees	1 m
2	2.424 GHz	Bluetooth Low Energy carrier					

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 power input: 3.85V DC
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 EUT Configuration: 1
 Note 1: 2.4GHz Notchfilter

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Radiation


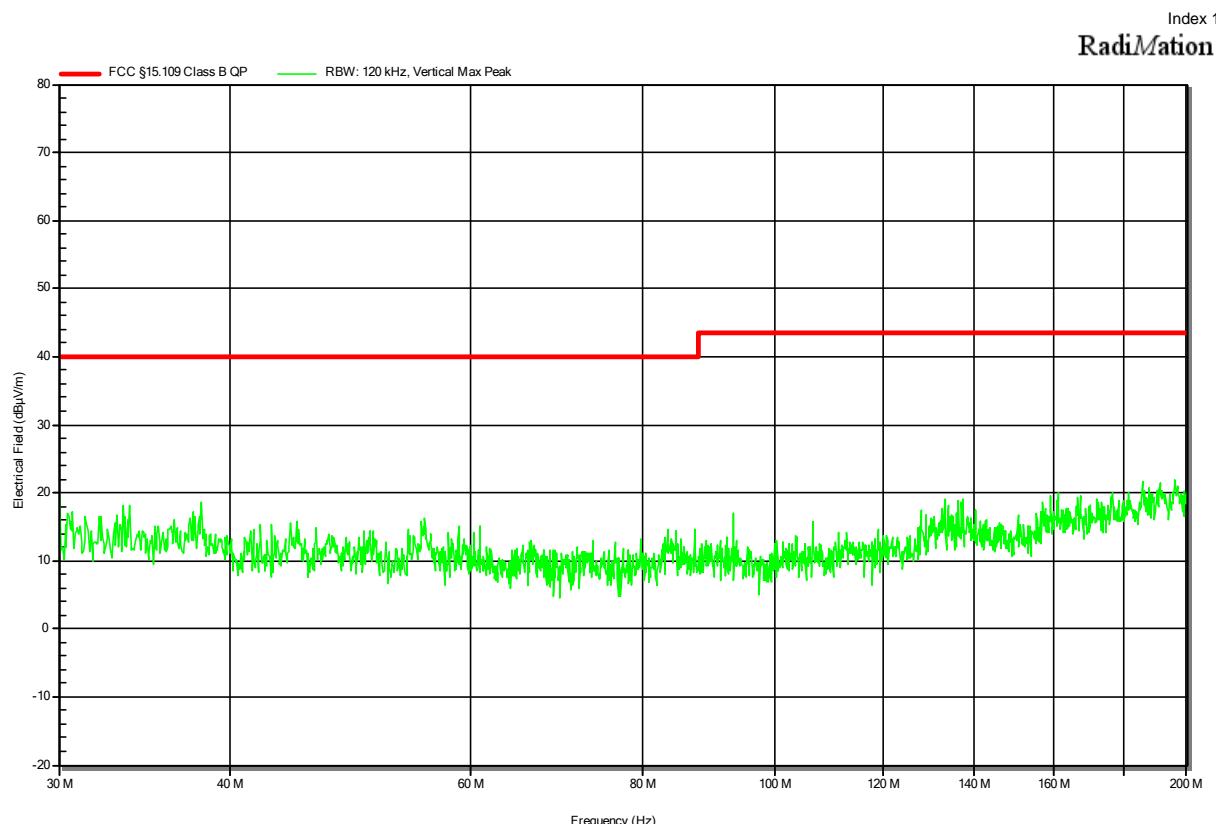
Test Report No.: G0M-2201-1252-EF0115B-V01

 Eurofins Product Service GmbH
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according to FCC part 15B**

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Model: NX
Test Sample ID: 38829
Test Site: Eurofins Product Service GmbH
Operator: Mr. Handrik
Test Date: 2022-03-28
Operating Conditions: ambient temperature: 20 °Celsius
power input: 120V AC / 60Hz
Antenna: Rohde & Schwarz HK 116, Vertical
Measurement Distance: 3m
Operational Mode: 2
EUT Configuration: 2

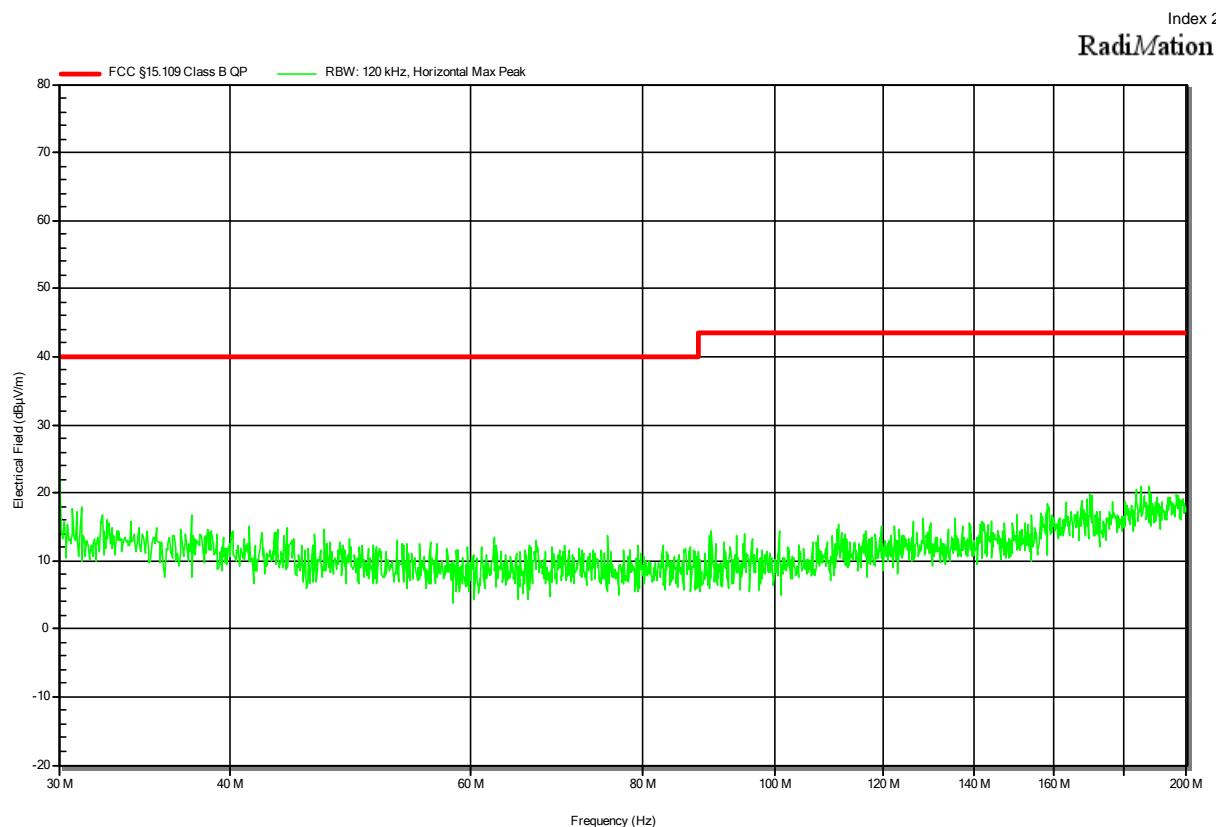
Note 1:



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EUT Configuration: 2

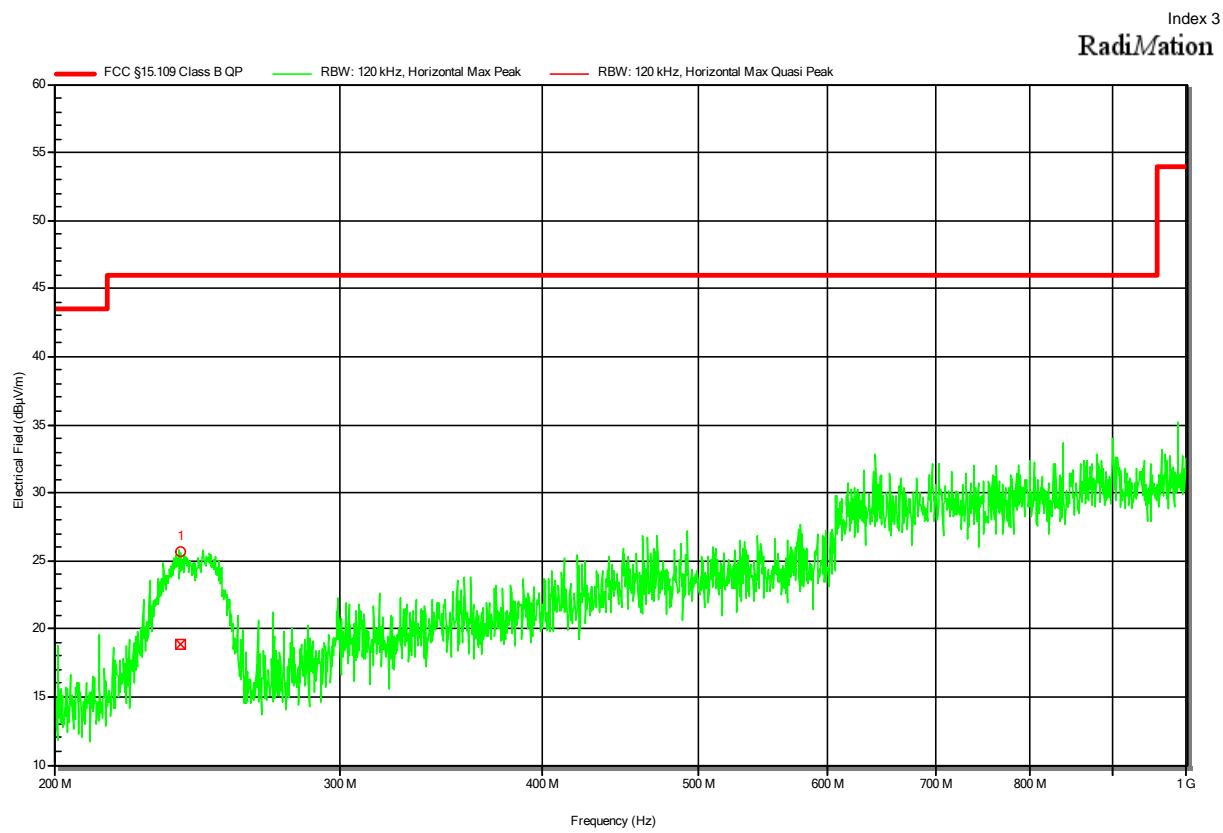
Note 1:



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 Measurement Distance: 3m
 Operational Mode: 2
 EUT Configuration: 2

Note 1:

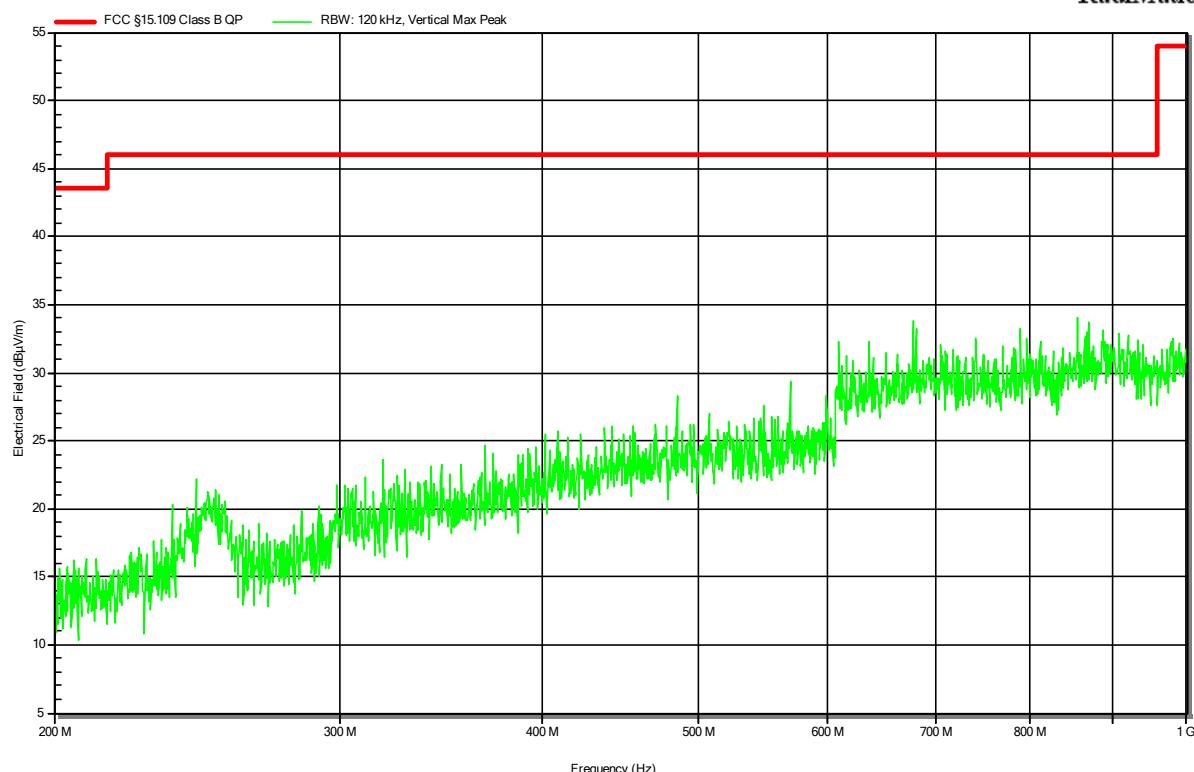


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Measurement Distance: 3m
Operational Mode: 2
EUT Configuration: 2

Note 1:

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Radiation

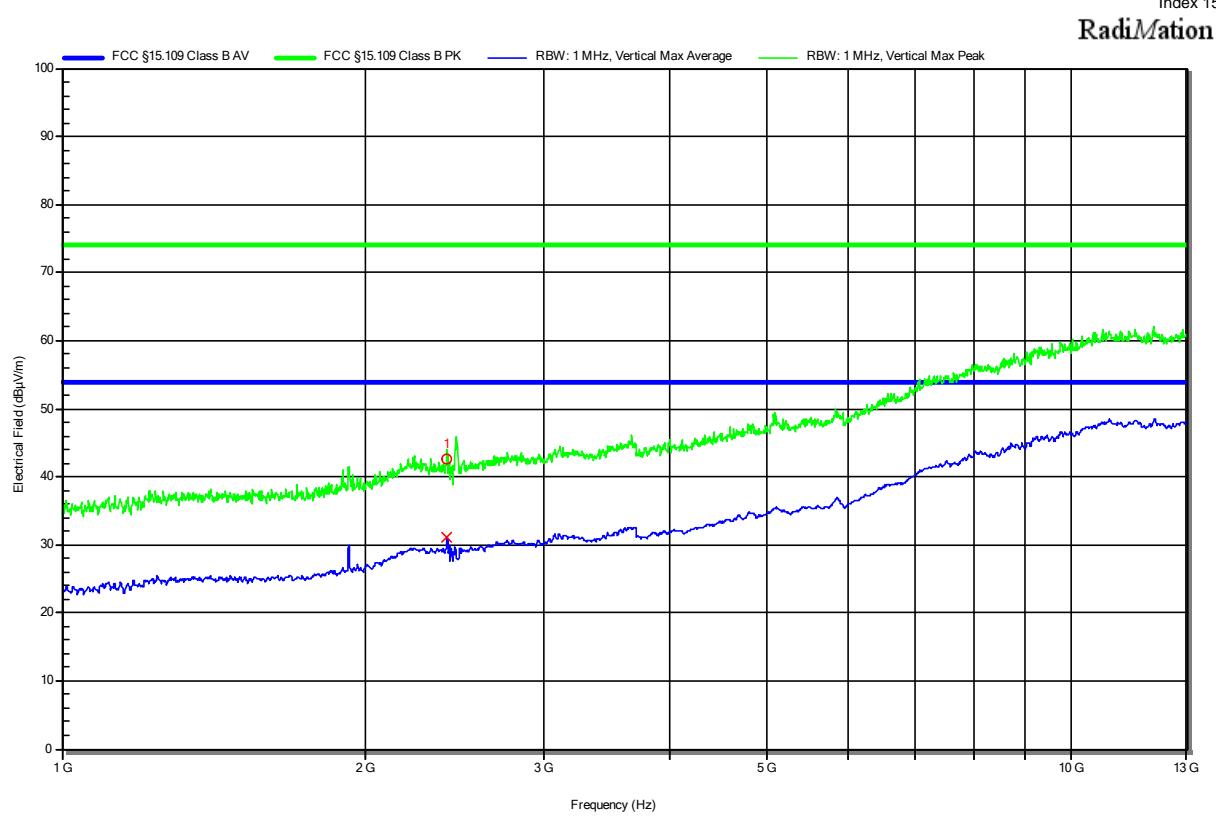
Test Report No.: G0M-2201-1252-EF0115B-V01

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

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 power input: 120V AC / 60Hz
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement Distance: 3m
 Operational Mode: 2
 EUT Configuration: 2
 Note 1: 2.4GHz Notchfilter

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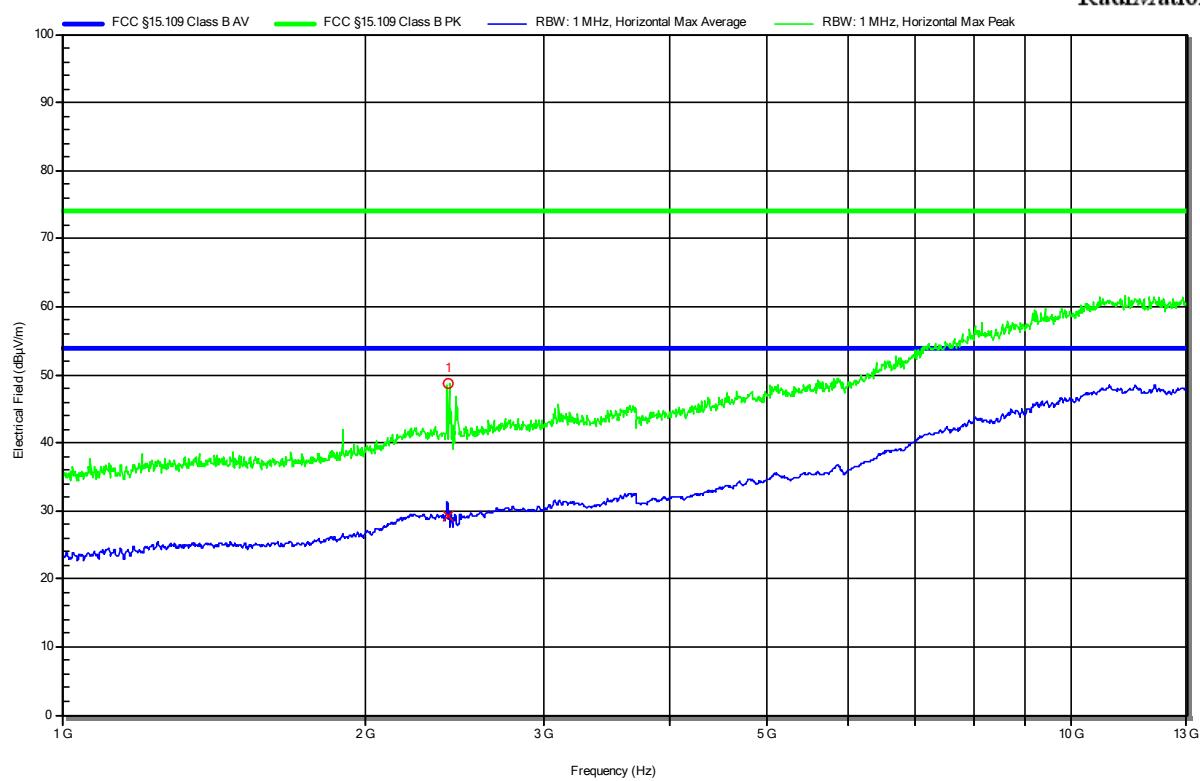
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Radiation


Test Report No.: G0M-2201-1252-EF0115B-V01

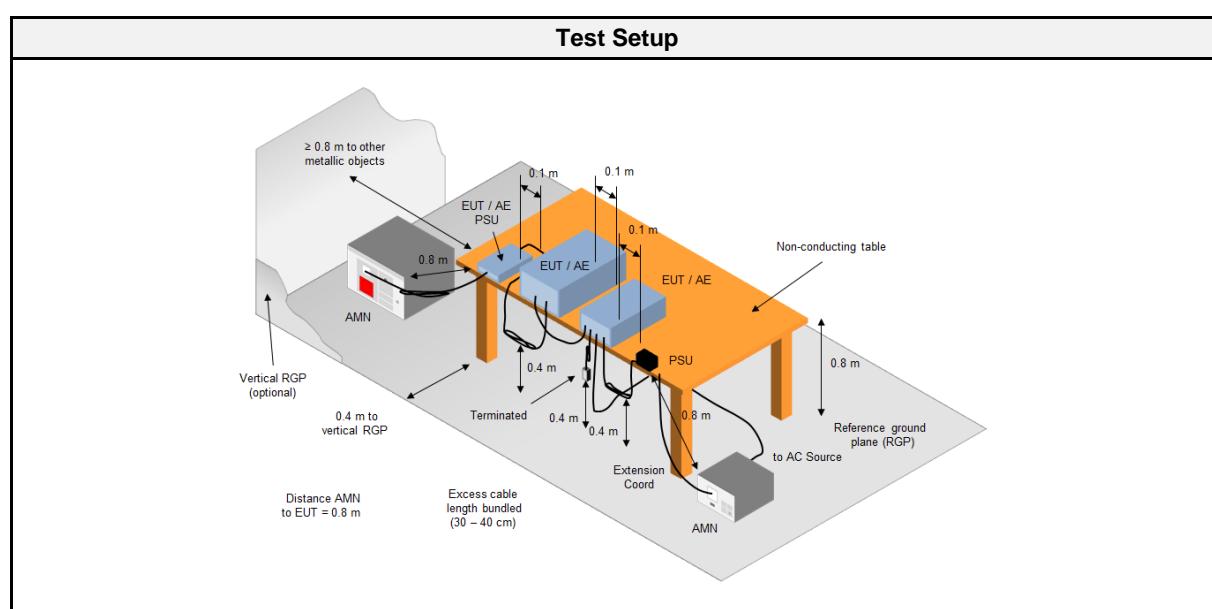
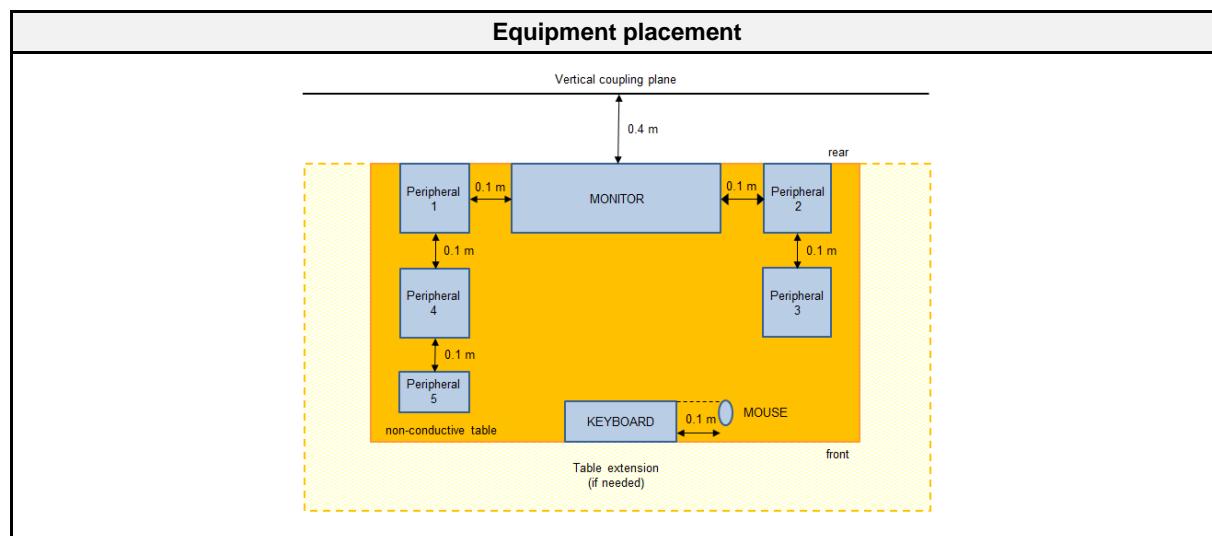
 Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

2.2 Test Conditions and Results - Conducted emissions acc. to ANSI C63.4

2.2.1 Information

Test Information	
Reference	FCC 15.107, ICES-003, 3.2.1
Reference method	ANSI C63.4:2014+A1:2017 Section 12
Measurement range	150 kHz to 30 MHz
Equipment class	Class B
Equipment type	Table top
Temperature [°C]	20 ±3
Humidity [%]	28 ±3
Operator	Matthias Handrik
Date	2022-03-28

2.2.2 Setup



2.2.3 Equipment

Test Software					
Description	Manufacturer	Name		Version	
EMC Software	DARE Instruments	Radimation		2020.1.8	

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
AMN	Schwarzbeck	NSLK 8127	EF01592	2021-07	2022-07
Pulse Limiter	R&S	ESH3-Z2	EF01063	2021-07	2022-07
EMI Test Receiver	R&S	ESR 7	EF00943	2021-08	2022-08
Climatic Sensor	Embedded Data Systems, LLC.	2800100000254 17E	EF01054	2021-03	2022-03

2.2.4 Procedure

Exploratory measurement					
<ol style="list-style-type: none"> 1. The EUT was placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2014 item 7.3.1) 2. The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN. 3. The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length). 4. The LISN measurement port was connected to a measurement receiver 5. I/O cables were bundled not longer than 0.4 m 6. Measurement was performed in the frequency range 0.15 – 30MHz on each current-carrying conductor 7. To maximize the emissions the cable positions were manipulated 8. The worst configuration of EUT and cables is shown on a test setup picture at item 2.2.2 					

Final measurement					
<ol style="list-style-type: none"> 1. The EUT was placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2014 item 7.3.1) 2. The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN. 3. The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length). 4. The LISN measurement port was connected to a measurement receiver 5. The EUT and cable arrangement were based on the exploratory measurement results 6. The test data of the worst-case conditions were recorded and shown on the next pages 					

2.2.5 Limits

Class B		
Frequency [MHz]	Quasi-peak Limit [dB μ V]	Average Limit [dB μ V]
0.15 - 0.5	66 - 56 *	56 - 46 *
0.5 - 5	56	46
5 - 30	60	50

* Decreases with the logarithm of the frequency

2.2.6 Results

AC power line conducted emissions					
Port	Coupling	Operational mode	EUT Configuration	Verdict	Remark
Power	AMN	2	2	PASS	-

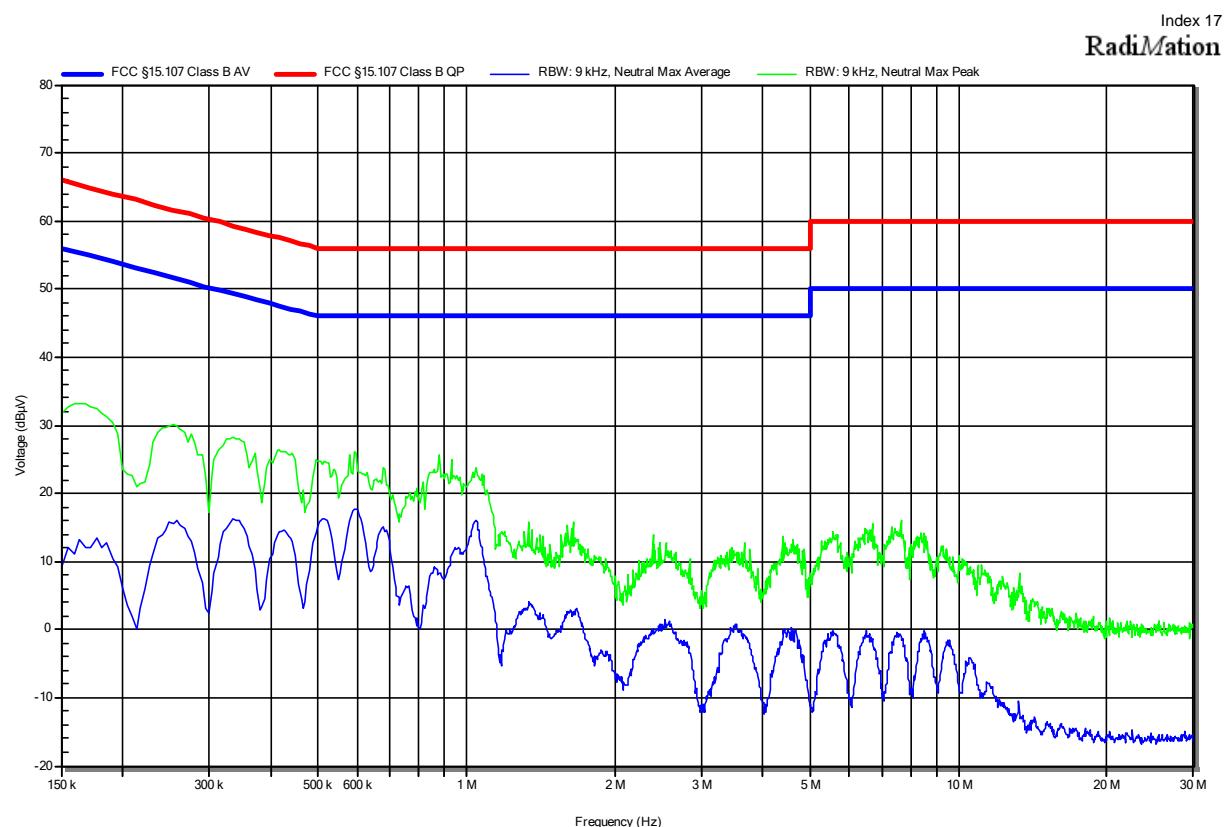
Test Report No.: G0M-2201-1252-EF0115B-V01

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

2.2.8 Records

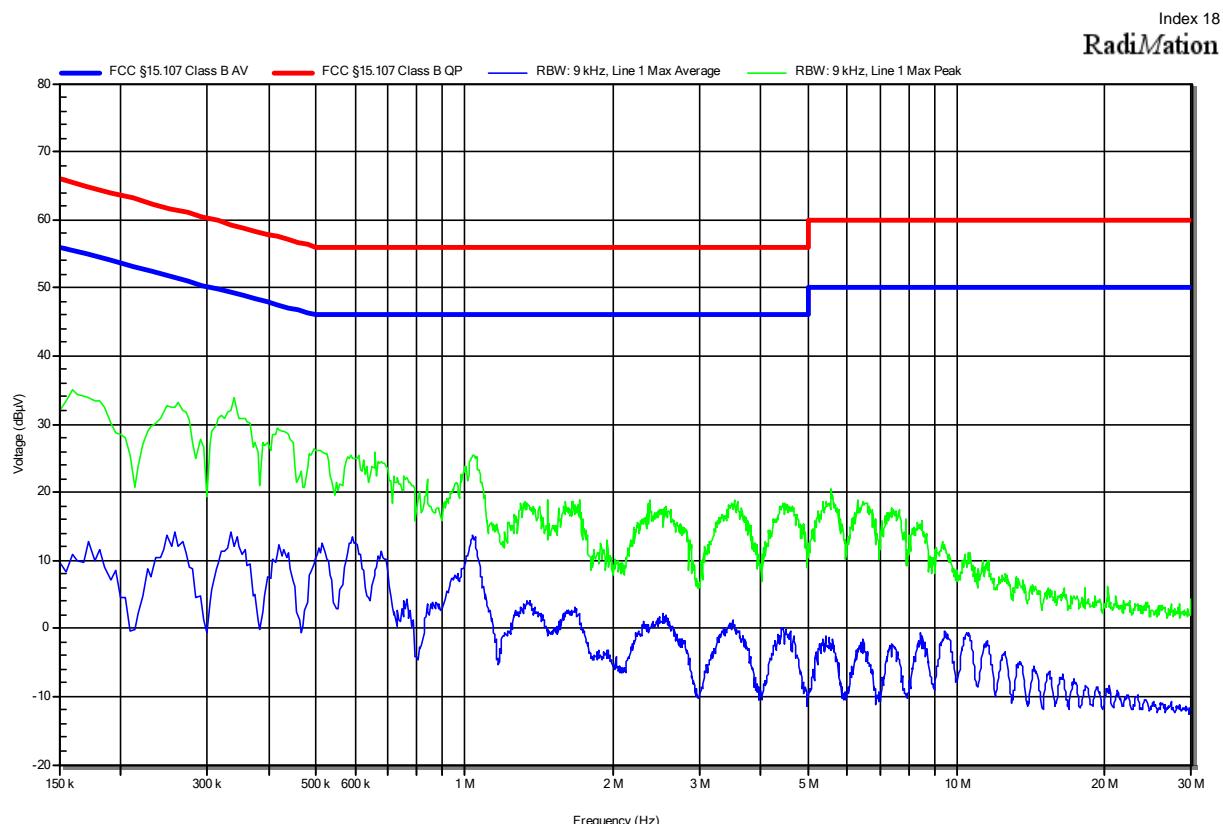
Conducted emissions at the mains power port according to FCC part 15B

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
 Model: NX
 Test Sample ID: 38829
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2022-03-28
 Operating Conditions: ambient temperature: 20 °Celsius
 power input: 120V AC / 60Hz
 LISN: Schwarzbeck NSLK 8127 RC N
 Operational Mode: 2
 EUT Configuration: 2
 Applied to Port: AC-mains
 Note 1:



**Conducted emissions at the mains power port
according to FCC part 15B**

Project Number: G0M-2201-1252
 Applicant: NOWATCH BV
 Model Description: NOWATCH AWEARABLE Bluetooth Bracelet
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 power input: 120V AC / 60Hz
 LISN: Schwarzbeck NSLK 8127 RC L
 Operational Mode: 2
 EUT Configuration: 2
 Applied to Port: AC-mains
 Note 1:



3 Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95%, with a coverage factor of 2.

Test Name	Measurement Uncertainty
Conducted emissions at the mains power port	150kHz to 30MHz, 3.35dB
Radiated Emission	30MHz to 200MHz @ 3m, 5.1dB 200MHz to 1GHz @ 3m, 5.3dB >1GHz to 18GHz @3m, 5.95dB