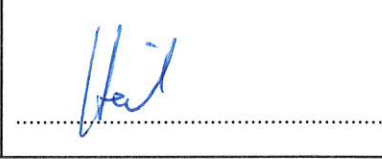


EMC TEST REPORT FCC CFR Title 47 / Chapter I / Subchapter A / Part 15 / Subpart B ISED ICES-003 Issue 7	
Report Reference No	G0M-2306-2102-EF0115B-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	    A2LA - Registration number: 1983.01 (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	Bridgestone Mobility Solutions B.V.
Address	Beethovenstraat 503 1083 HK Amsterdam Netherlands
Test Specification Standard(s)	FCC CFR Title 47 / Chapter I / Subchapter A / Part 15 / Subpart B ISED ICES-Gen Issue 1 ; Amendment 1 (February 2021) ISED ICES-003 Issue 7 ANSI C63.4:2014+A1:2017
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	Telematic Accessory with Display + RFID + Bluetooth
Model(s)	PROI
Additional Model(s)	None
Brand Name(s)	webfleet PRO i
Hardware Version(s)	46/2022
Software Version(s)	0.0.25 / ASPX__000_000_00081__DEBUG
FCC-ID	2AGPAPROI
IC	20911-PROI
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	2023-07-20	
Report:		
Compiled by	Stephan Liebich	
Tested by (+ signature) (Responsible for Test)	Stephan Liebich	
Approved by (+ signature) (Test Lab Technician)	Matthias Handrik	
Date of Issue	2023-09-26	
Total number of pages	36	
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.		
Statement concerning the uncertainty of the measurement systems used for decisions on conformity (decision rule): The Decision Rule is applied on the basis of CISPR 16-4-2 and/or IEC 61000-4-x (TR 61000-1-6) and their national publications. 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. Compliance or non-compliance with a disturbance limit is determined in the following manner. - If U_{lab} is less than or equal to U_{CISPR}, then: compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. - If U_{lab} is greater than U_{CISPR}, then: compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{CISPR})$, exceeds the disturbance limit; non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{CISPR})$, exceeds the disturbance limit. Where appropriate for the test, for example for EMC pulsed immunity tests, the laboratory has demonstrated, by calibrating its equipment and facilities, that it complies with the above requirements and therefore no allowance of uncertainties has been given to the tolerances.		
Additional Comments:		
None		

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	2023-09-26	Initial Release	--

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2.1	Test Conditions and Results - Radiated emissions acc. to ANSI C63.4.....	19
3	Measurement Uncertainty	36

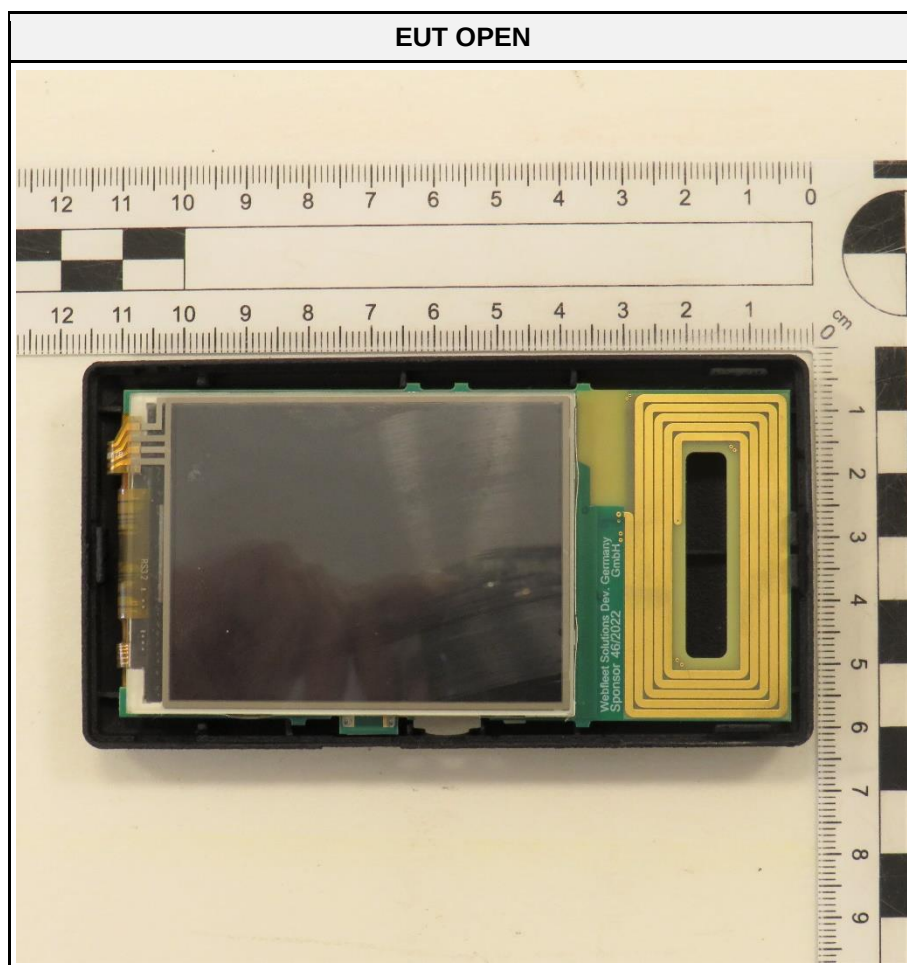
1 Equipment (Test Item) Under Test

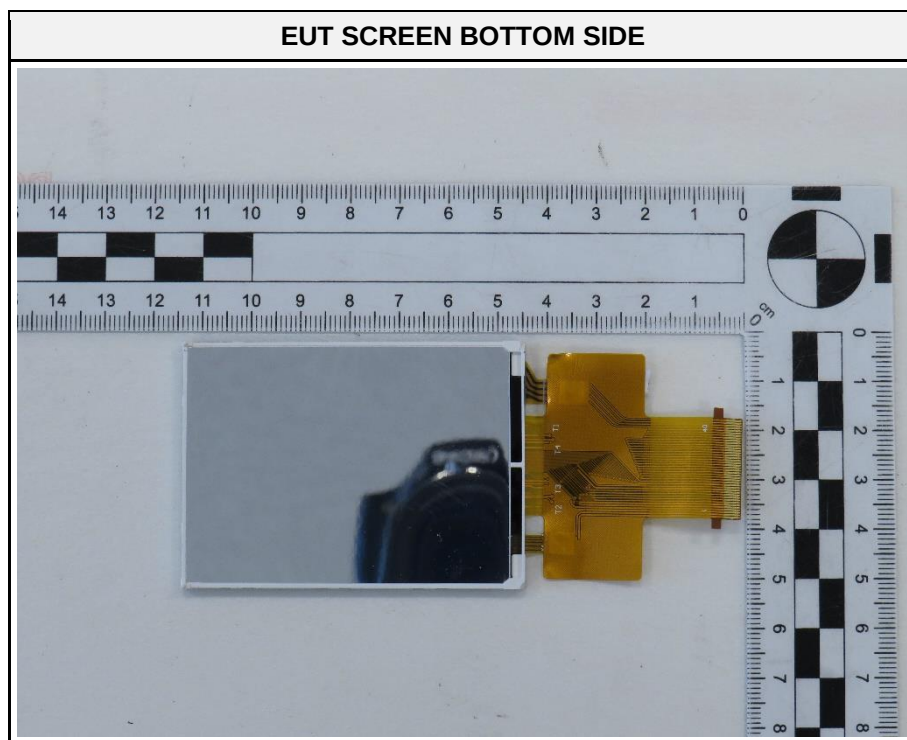
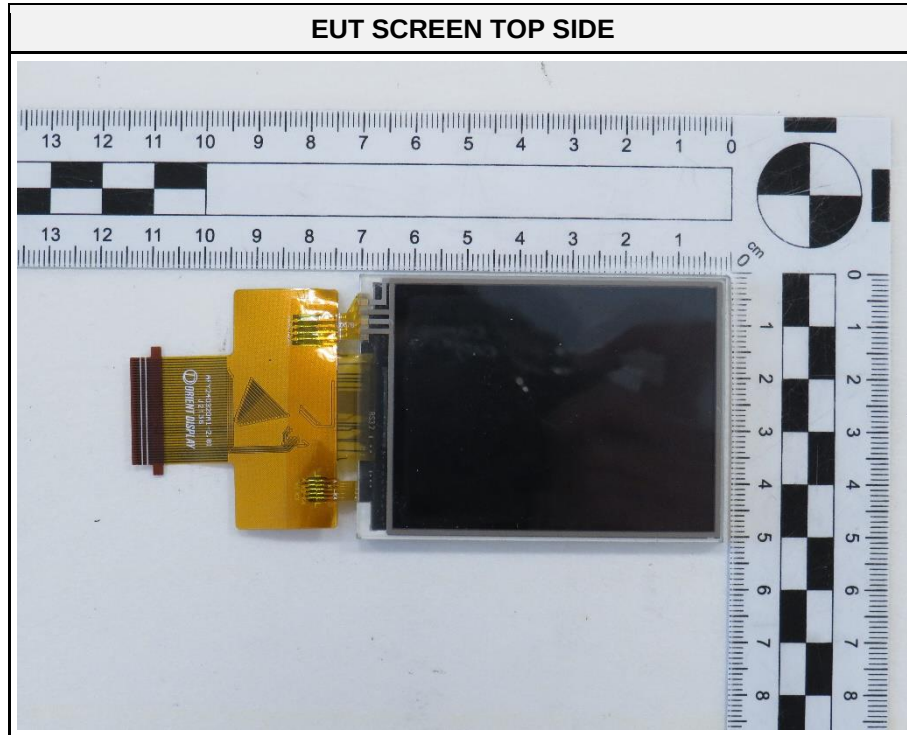
Description	Telematic Accessory with Display + RFID + Bluetooth		
Intended Use	The PRO i is an accessory device which has a plugged connection via cable to several LINK 7. telematics devices. It consists of a color display with touchscreen. The customer can use the device for driver identification, logbook mode switching and for working time recording. The user switches between those different modes via touchscreen interaction. The identification of a driver is done with the integrated RFID reader interface. All the gathered information is collected in the device and sent via the data cable to the telematics device. The data connection between the PRO i and the telematics black box is also used to give the driver an active driver feedback and helps to optimize his driving behaviour.		
Model	PROI		
Additional Model(s)	None		
Brand Name(s)	webfleet PRO i		
Hardware Version(s)	46/2022		
Software Version(s)	0.0.25 / ASPX__000_000_00081__DEBUG		
Number of tested samples	1		
Sample Identification	EUT #	Sample-ID	Serial Number
	EUT 1	44803	NZ4243W00027
EUT Dimensions [cm]	11.3 x 6.0 x 1.4		
FCC-ID	2AGPAPROI		
IC	20911-PROI		
Class	Class B		
Equipment type	Table top		
Highest internal frequency [MHz]	2480		
Protective Earth	No		
Functional Earth	No		
Radio Module 1	Type	SRD module	
	Model	unspecified	
	Manufacturer	unspecified	
	FCC-ID	N/A	
	IC	N/A	
Radio Module 2	Type	Bluetooth module	
	Model	unspecified	
	Manufacturer	unspecified	
	FCC-ID	N/A	
	IC	N/A	
Supply Voltage	V _{NOM}	12 V / 24 V DC	
AC/DC-Adaptor	None		
Manufacturer	Bridgestone Mobility Solutions B.V. Beethovenstraat 503 1083 HK Amsterdam Netherlands		
Factory	Neways Neunkirchen GmbH Am Gneisenaufflöz 6 66538 Neunkirchen Germany		

1.1 Equipment Ports

Name	Type	Attributes	Comment
Power	DC	Count: 1 Cable length [m]: 2 Direction: In Service only: No Shielded: No	Voltage range from 9 to 30 V DC
K-line	IO	Count: 1 Cable length [m]: 2 Direction: IO Service only: No Shielded: No	Data interface ISO9141
USB	IO	Count: 1 Cable length [m]: 3 Direction: IO Service only: Yes Shielded: Yes	Port is not exercised nor terminated
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		
GND	Functional Earth		

1.2 Equipment Photos - Internal

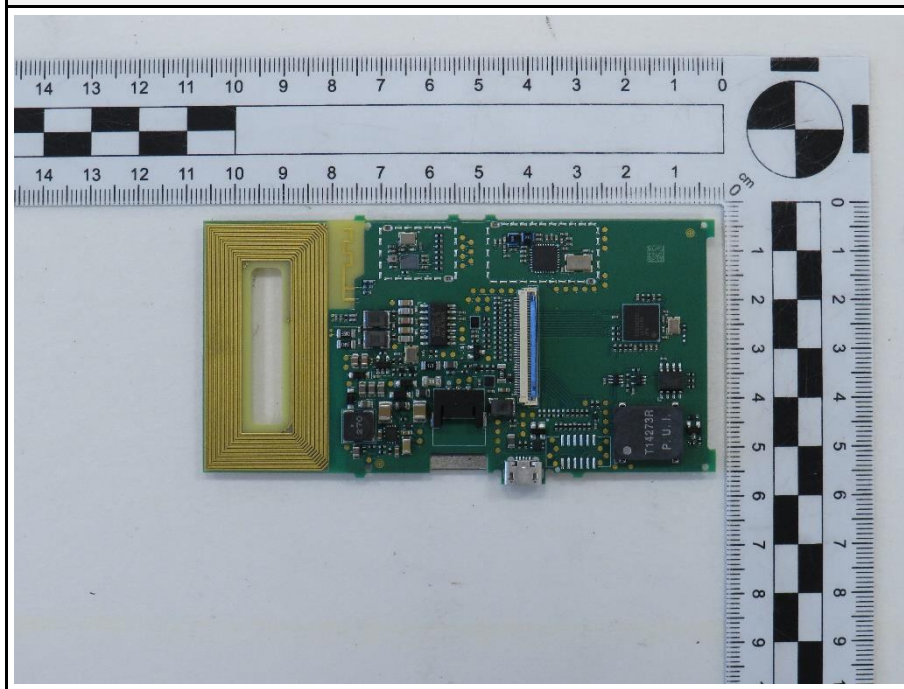




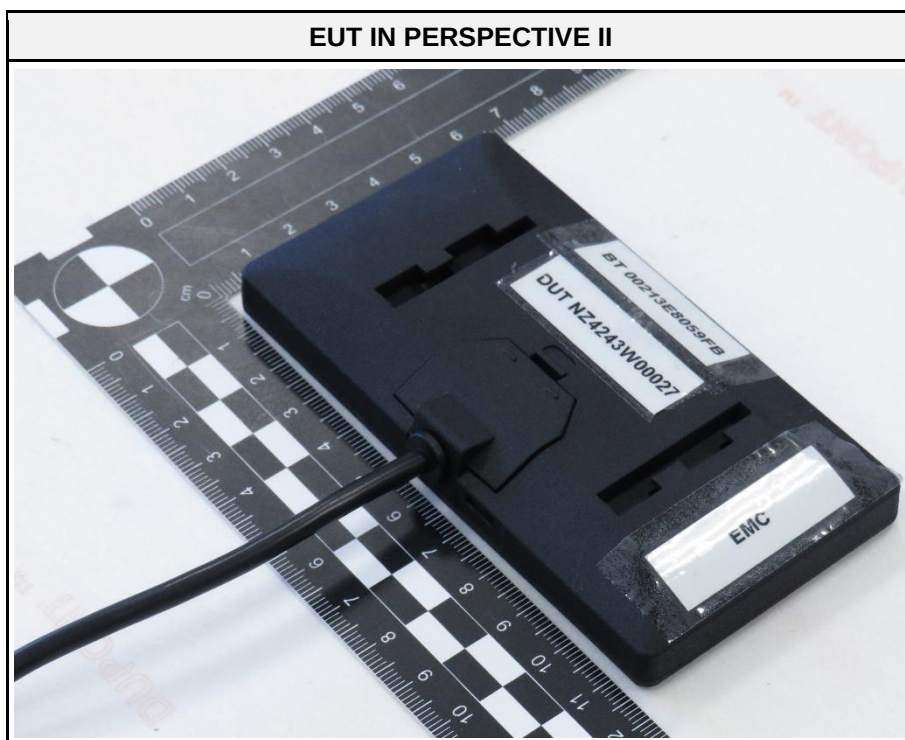
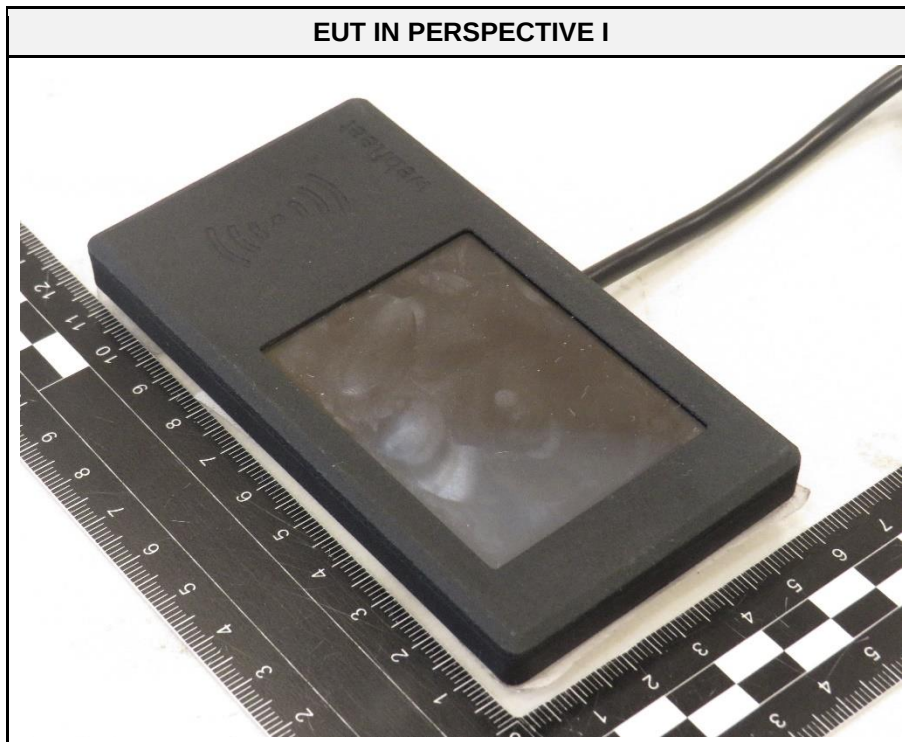
EUT PCB TOP SIDE

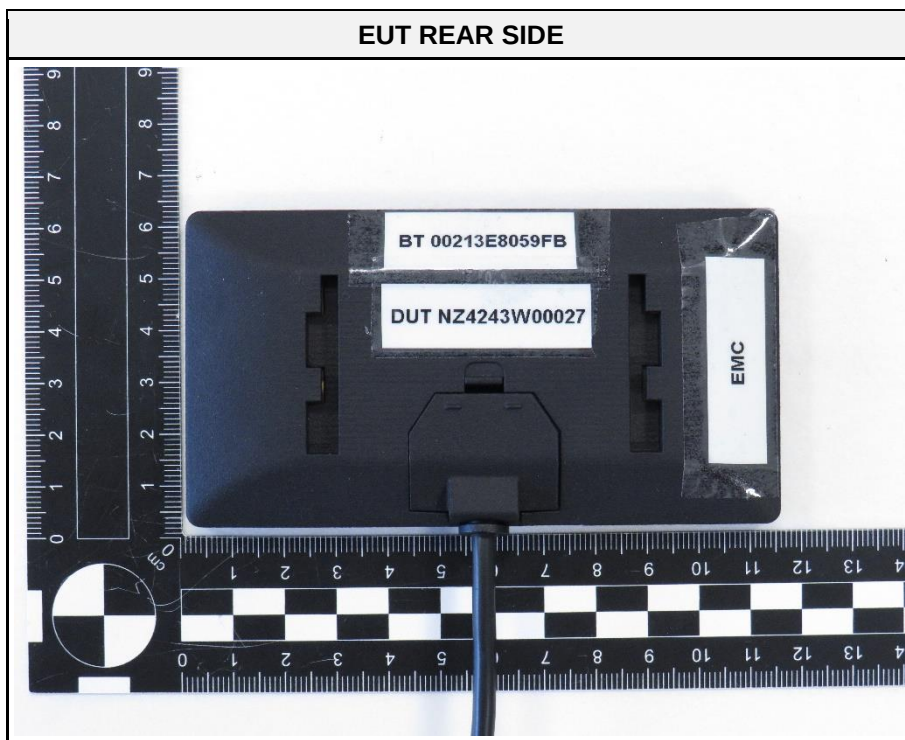
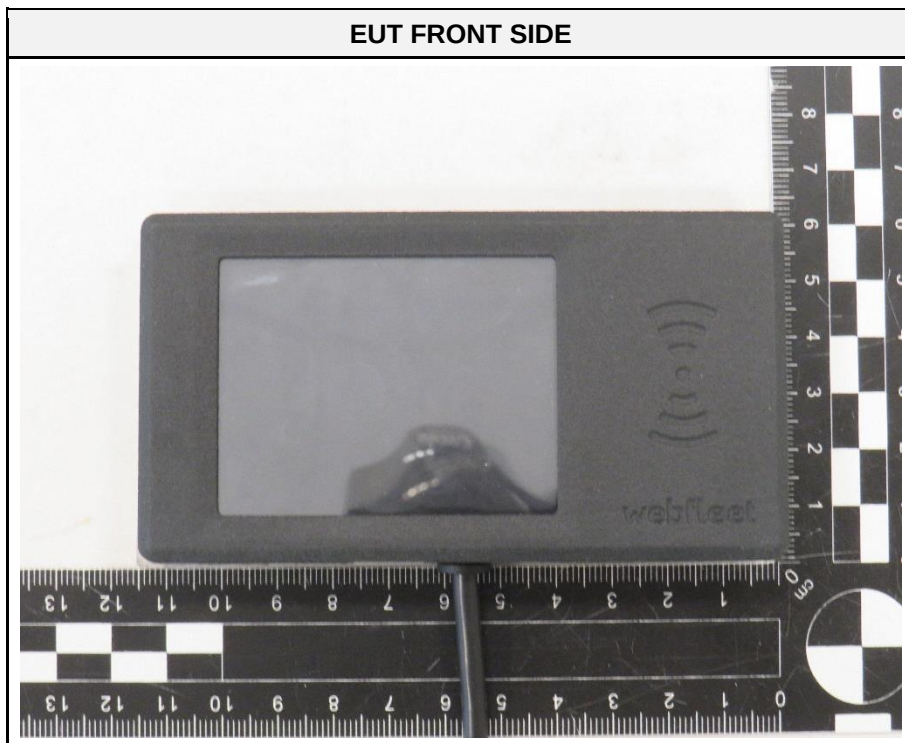


EUT PCB BOTTOM SIDE



1.3 Equipment Photos - External





EUT RIGHT SIDE



EUT LEFT SIDE



EUT TOP SIDE



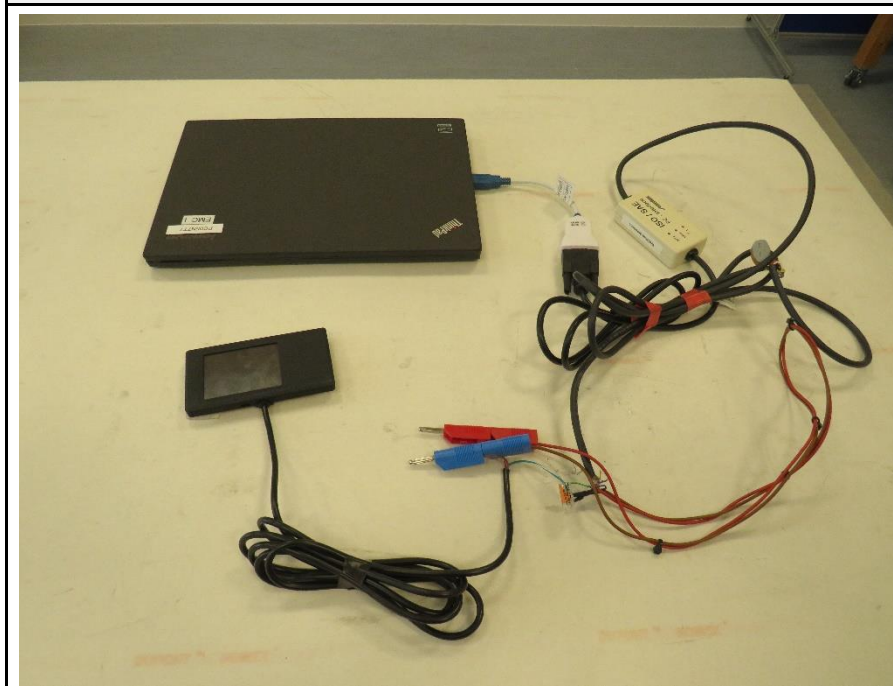
EUT BOTTOM SIDE



EUT LABEL



EUT WITH ALL ACCESSORIES



1.4 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE/MON	Laptop	lenovo	X250	Windows Pro 10; SN PC-05N7T7 15/06
AE	PC-Interface	samtec	ISO/SAE	Customer Support Equipment; SN TN3188; 3 m
SW	Terminal Program	Tobias Hammer	HTerm 0.8.5	RFID and K-Line monitoring
AE	RFID-Tag	webfleet	Pro i	13.56 / 0.125 MHz
MON	Spectrum Analyzer	R&S	FPL1007	*EF01683
MON	CBT Bluetooth Tester	R&S	CBT	EF00358
Description: *Monitoring intentional and unintentional transmission (carrier only)				
AE	Auxiliary Equipment			
SIM	Simulator			
MON	Monitoring Equipment			
CBL	Connecting Cable			
SW	Software			
Comment: --				

1.5 Operational Modes

Mode #	Description
1	RFID active (scanning/reading), Bluetooth active, Display On and backlight on fully brightness, K-Line data connection active. EUT is reading every 0.250 s RFID-Tag information from RFID-Tag via SRD connection (13.56 / 0.125 MHz). EUT change every 0.5 s reader frequency between 13.56 / 0.125 MHz. EUT sends/receives permanently data packages via Bluetooth connection from companion device (CBT Bluetooth Tester). EUT sends every 0.250 s reader information to Laptop via K-Line connection.
Comment: EUT is prepared with a special EMC software (Software Version ASPX_000_000_00081_DEBUG) by customer.	

1.6 EUT Configuration

Configuration #	Description
1	EUT is powered via laboratory power supply unit. According CISPR 25 section 4.5.6 Component/module tests: test voltage is chosen for 12 V system 13.5 V DC and for 24 V system 27 V DC. EUT is connected to Laptop via PC-Interface by K-Line connection. CBT Bluetooth Tester in test mode: TX Tests, Static PRBS, DH5, Hopping Europe/USA, max. power. RFID-Tag lies on EUT. Laptop is battery driven.
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 dBµV. 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 dBµV/m). The FCC limits are given in units of µV/m. The following formula is used to convert the units of µV/m to dBµV/m:

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

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 dBµV + 26 dB/m	= 47.5 dBµV/m	:	47.5 dBµV/m - 57.0 dBµV/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	N/R	Vehicular use
Comment: --				

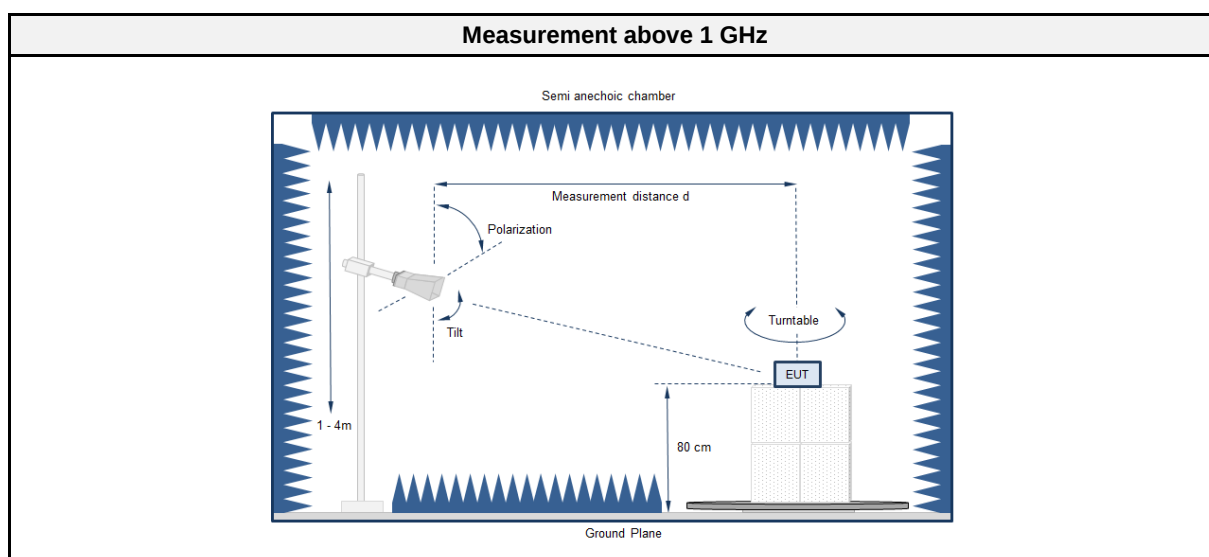
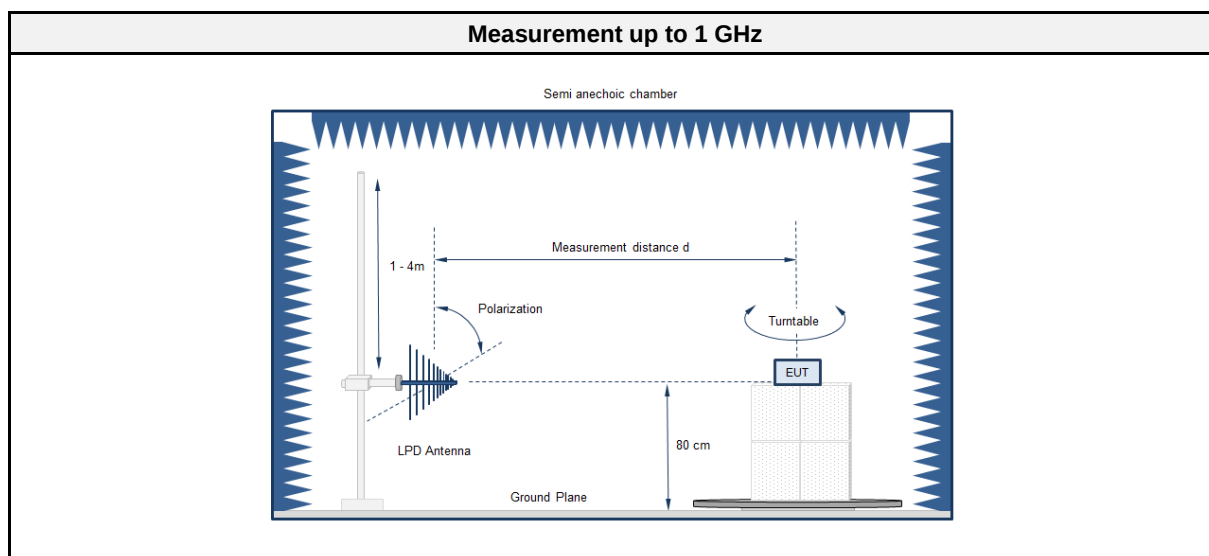
Possible Test Case Verdicts	
PASS	Test object does meet the requirements
FAIL	Test object does not meet the requirements
N/T	Required by standard but not tested
N/R	Not required by standard for the test object

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

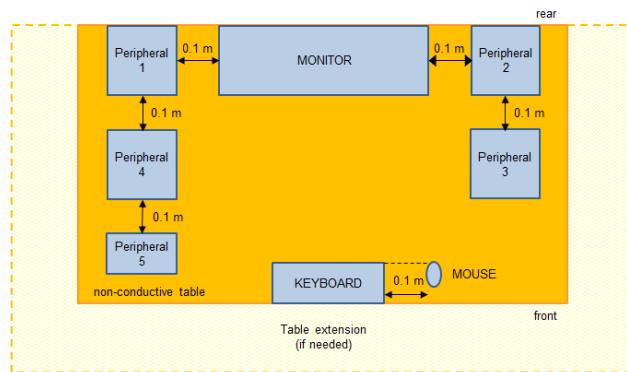
2.1.1 Information

Test Information	
Reference	FCC 15.109, ICES-003, 3.2.2
Reference method	ANSI C63.4 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 – 25
Humidity [%]	48 – 52
Operator	Mahmood Nasor supervised by Stephan Liebich
Date	2023-08-02

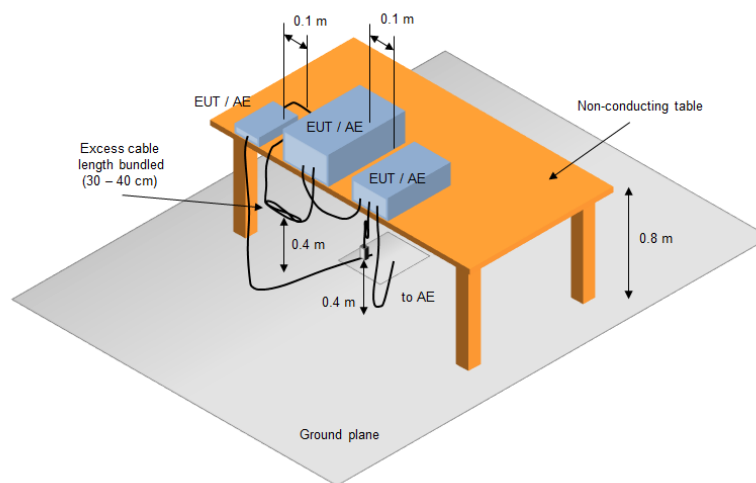
2.1.2 Setup *Table top*:



Equipment placement - Table top



Test 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	2022-11	2025-11
Anechoic chamber (SVSWR)	Frankonia	AC 1	EF01011	2022-11	2023-11
Programmable AC Source	Chroma ATE Inc.	61604	EF01068	2021-07	2023-08
EMI Test Receiver	Keysight	N9038A-526/WXP	EF01070	2023-02	2024-02
Biconical Antenna	R&S	HK 116	EF00030	2021-05	2024-05
LPD Antenna	R&S	HL 223	EF00187	2022-06	2025-06
Horn Antenna	Schwarzbeck	BBHA9120D	EF00018	2022-12	2025-12
Climatic Sensor	Embedded Data Systems, LLC.	2800100000254 17E	EF01054	2023-07	2024-07

2.1.4 Procedure

Exploratory measurement Table top	
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 3m Table top	
1.	The EUT was placed on a 0.8 m non-conductive table at a 3 or 10 m distance from the receive antenna. The antenna output was connected to the measurement receiver.
2.	A broadband hybrid antenna was used for the frequency range 30 – 1000 MHz. Above one 1 GHz a Double Ridged Broadband Horn antenna was used. The antenna was placed on an adjustable height antenna mast. If required, in the range 1- 18 GHz a Double Ridged Broadband Horn antenna, in the range 18 – 40 GHz a High Gain / Standard Gain Horn 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.

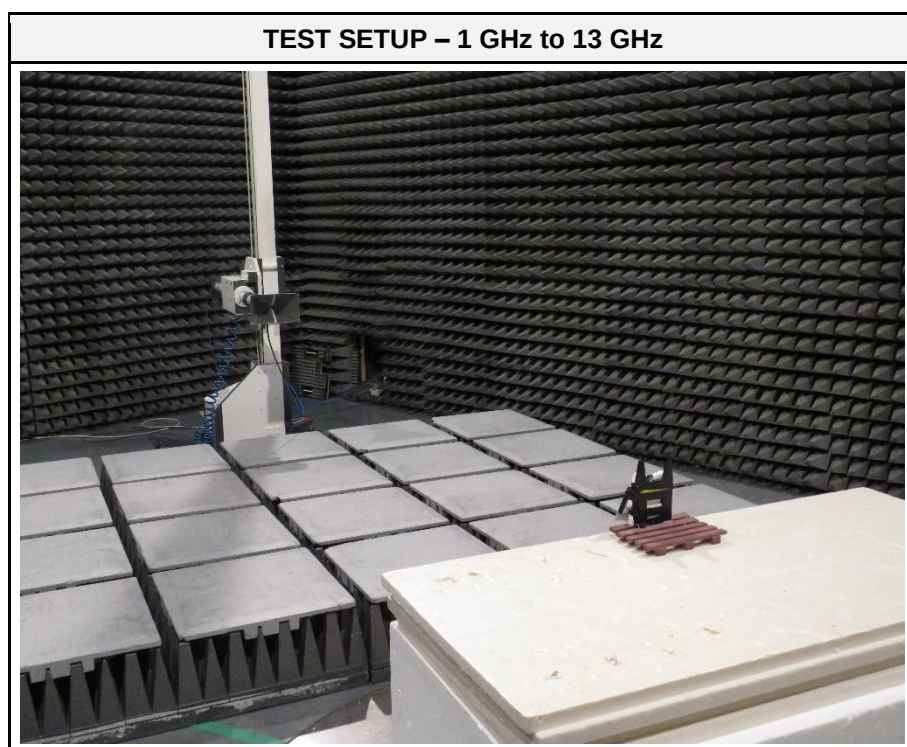
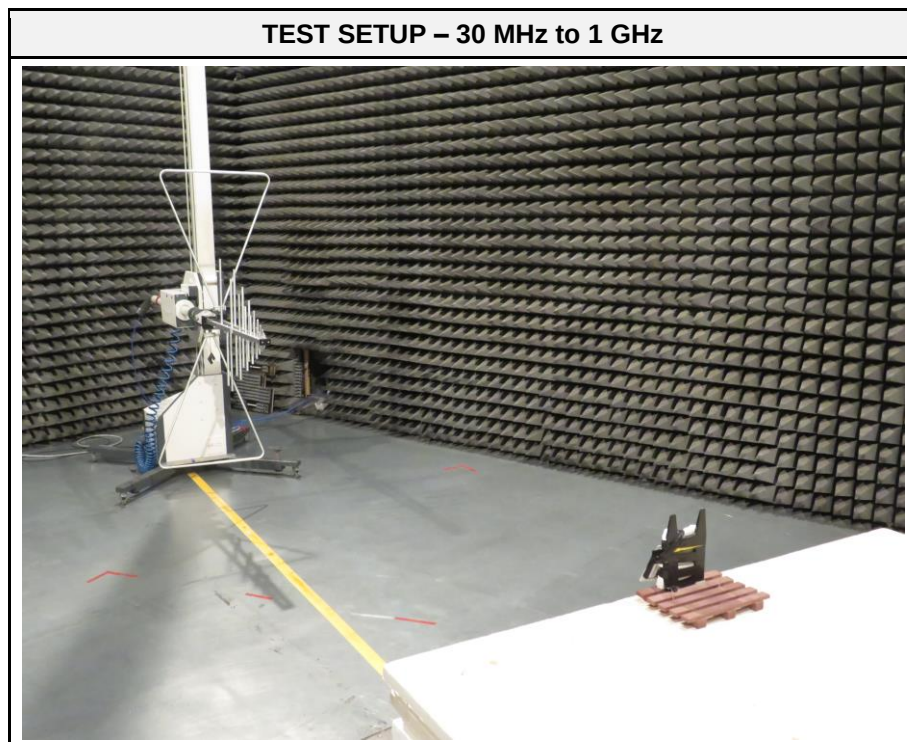
2.1.5 Limits

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

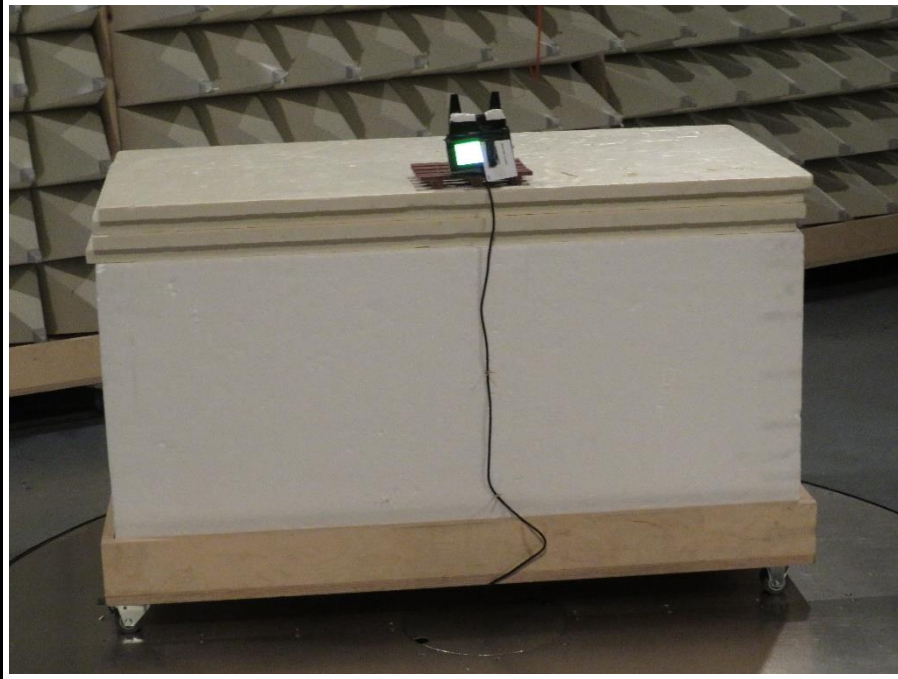
2.1.6 Results

Results			
Operational mode	EUT Configuration	Verdict	Remark
1	1	PASS	13.5 V DC
1	1	PASS	27 V DC
Comment: Power cable length is 1.5 m,all other cable lengths see support equipment table.			

2.1.7 Setup Photos



TEST SETUP - FOCUS

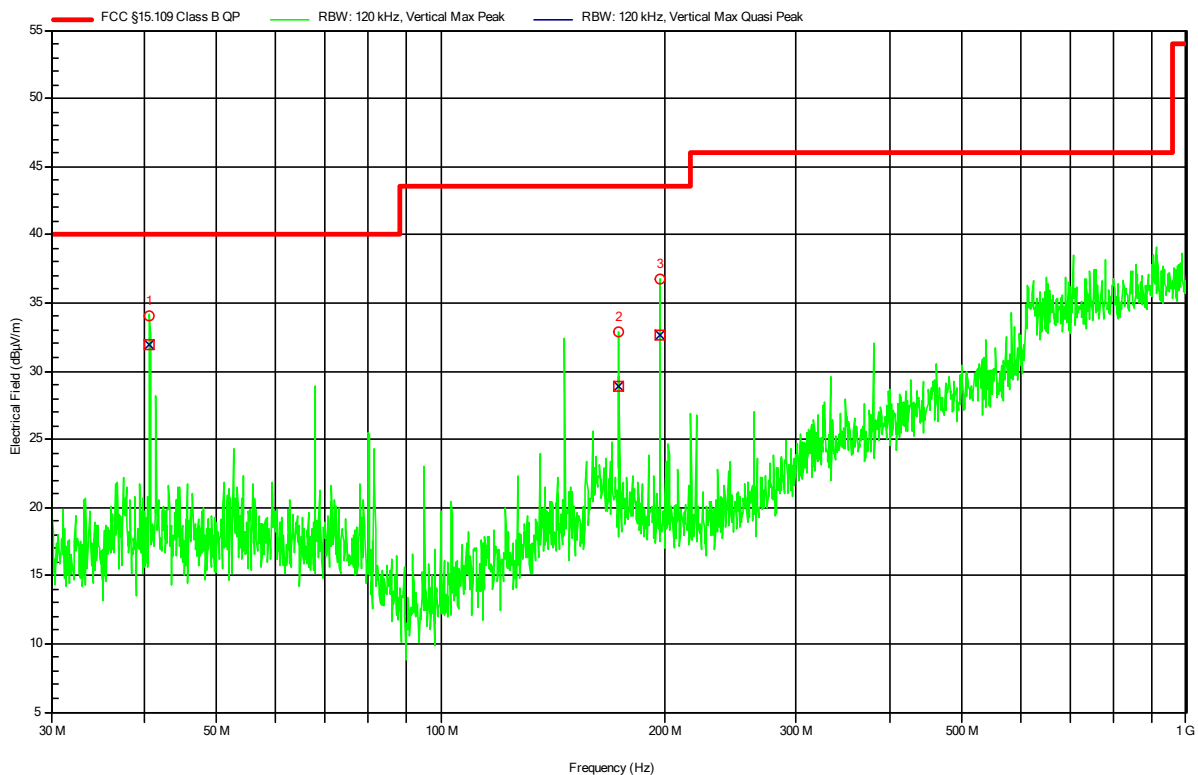


2.1.8 Records

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

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44803
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Liebich
 Test Date: 2023-08-02
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 13.5 V DC
 Antenna: Schwarzbeck VULB 9168, Vertical
 Measurement Distance: 3m
 Operational Mode: 1
 EUT Configuration: 1
 Note 1: -

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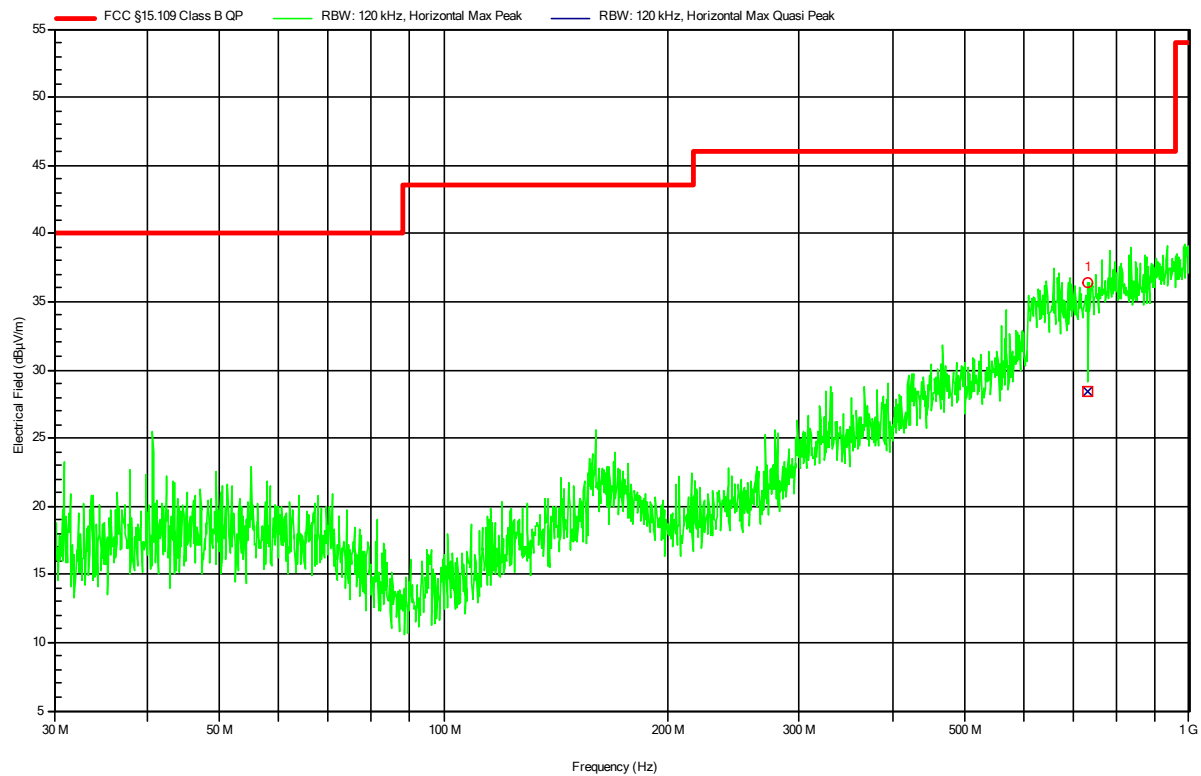


Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	40.68 MHz	31.9 dBµV/m	40 dBµV/m	-8.1 dB	Pass	120 degrees	1 m
2	173.331 MHz	28.87 dBµV/m	43.52 dBµV/m	-14.65 dB	Pass	120 degrees	1 m
3	196.653 MHz	32.59 dBµV/m	43.52 dBµV/m	-10.93 dB	Pass	120 degrees	1 m

Radiated emissions according to FCC part 15B

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44803
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Liebich
 Test Date: 2023-08-02
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 13.5 V DC
 Antenna: Schwarzbeck VULB 9168, Horizontal
 Measurement Distance: 3m
 Operational Mode: 1
 EUT Configuration: 1
 Note 1: --

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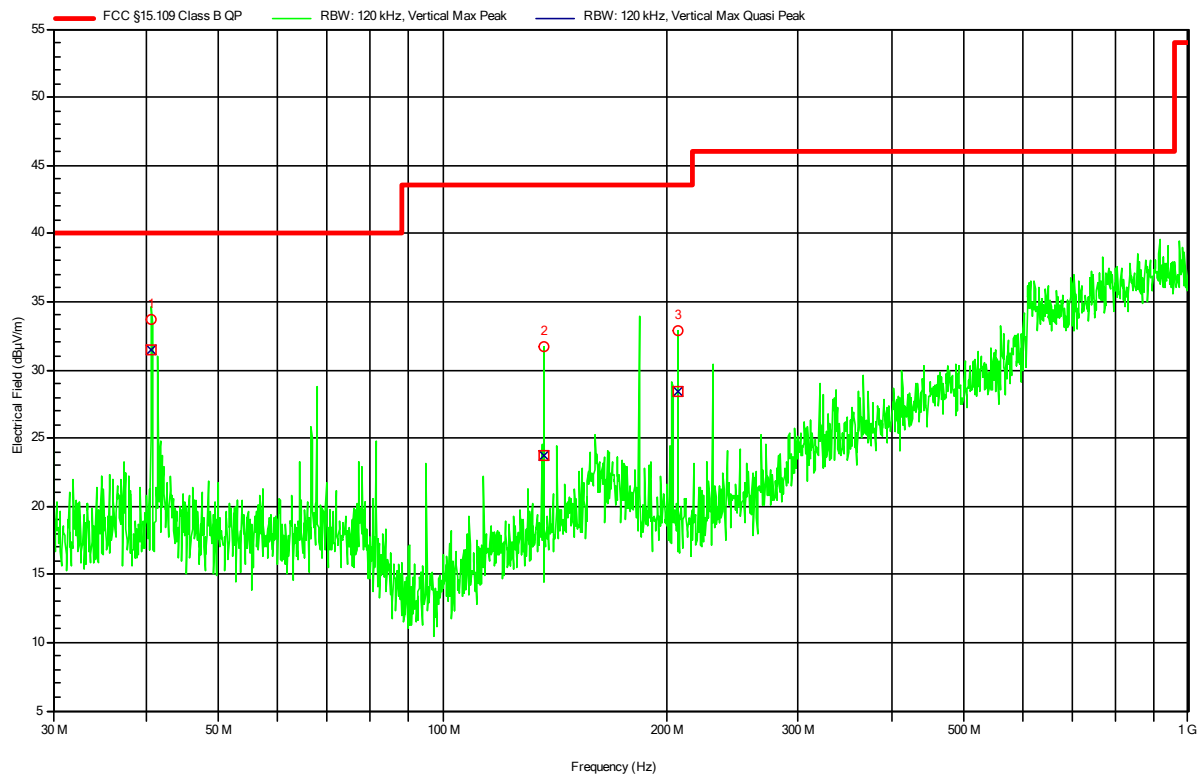


Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	731.65 MHz	28.39 dBμV/m	46.02 dBμV/m	-17.63 dB	Pass	160 degrees	1 m

Radiated emissions according to FCC part 15B

Project Number: G0M-2306-2102
Applicant: Bridgestone Mobility Solutions B.V.
Model Description: Telematic Accessory with Display + RFID + Bluetooth
Model: PROI
Test Sample ID: 44803
Test Site: Eurofins Product Service GmbH
Operator: Mr. Liebich
Test Date: 2023-08-02
Operating Conditions: ambient temperature: 23 °Celsius
power input: 27 V DC
Antenna: Schwarzbeck VULB 9168, Vertical
Measurement Distance: 3m
Operational Mode: 1
EUT Configuration: 1
Note 1: -

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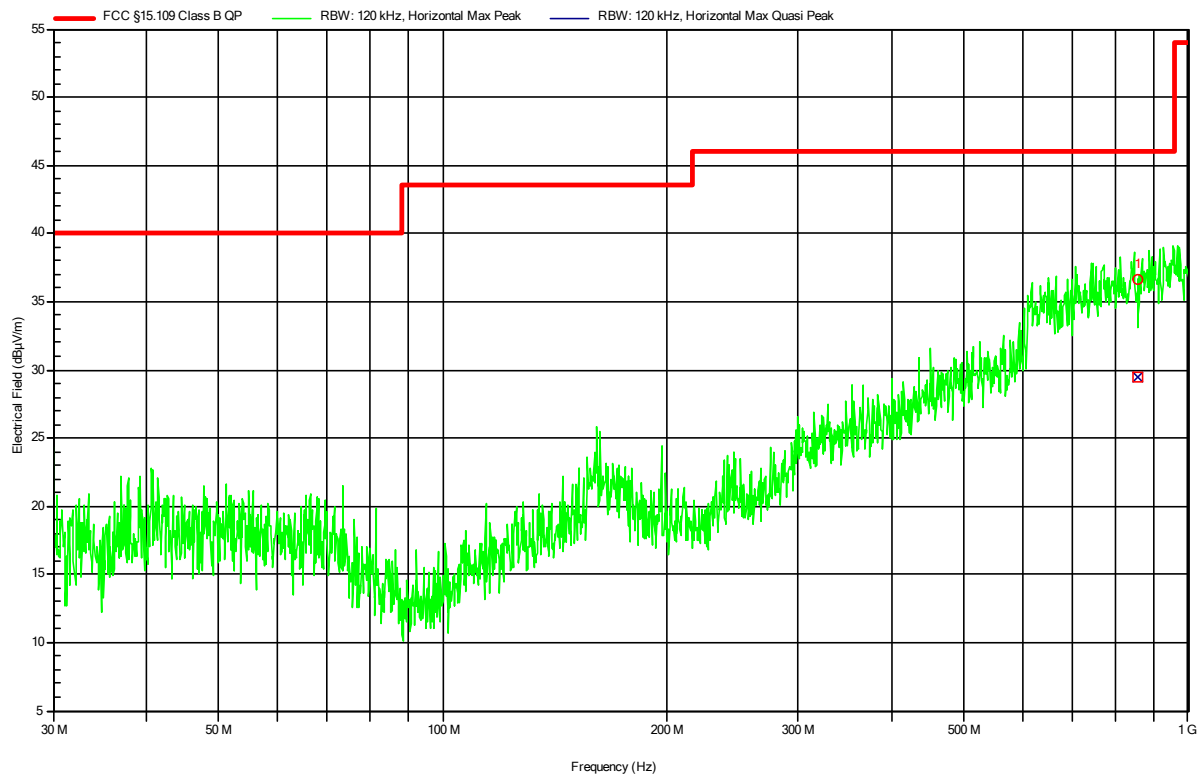


Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	40.698 MHz	31.42 dBμV/m	40 dBμV/m	-8.58 dB	Pass	120 degrees	1 m
2	136.624 MHz	23.74 dBμV/m	43.52 dBμV/m	-19.78 dB	Pass	120 degrees	1 m
3	206.696 MHz	28.37 dBμV/m	43.52 dBμV/m	-15.15 dB	Pass	120 degrees	1 m

Radiated emissions according to FCC part 15B

Project Number: G0M-2306-2102
 Applicant: Bridgestone Mobility Solutions B.V.
 Model Description: Telematic Accessory with Display + RFID + Bluetooth
 Model: PROI
 Test Sample ID: 44803
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Liebich
 Test Date: 2023-08-02
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 27 V DC
 Antenna: Schwarzbeck VULB 9168, Horizontal
 Measurement Distance: 3m
 Operational Mode: 1
 EUT Configuration: 1
 Note 1: --

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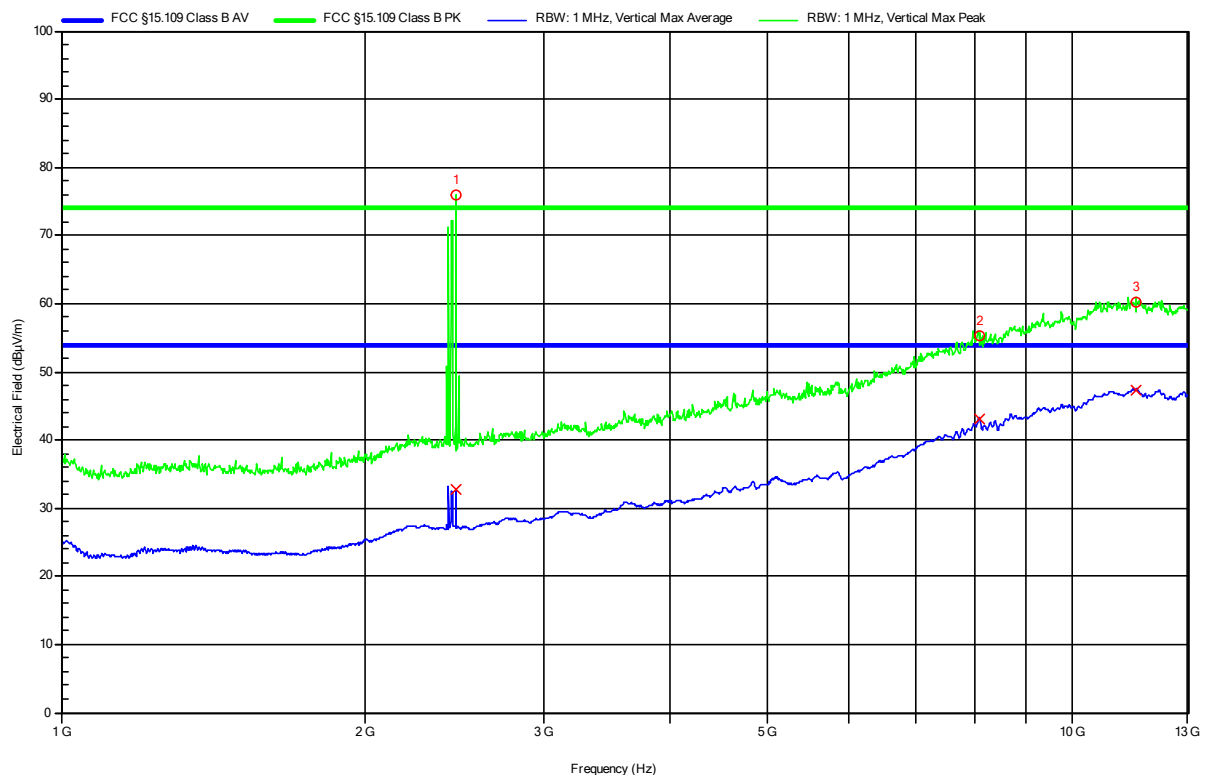


Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	856.657 MHz	29.46 dBµV/m	46.02 dBµV/m	-16.56 dB	Pass	160 degrees	1 m

Radiated emissions according to FCC part 15B

Project Number: G0M-2306-2102
Applicant: Bridgestone Mobility Solutions B.V.
Model Description: Telematic Accessory with Display + RFID + Bluetooth
Model: PROI
Test Sample ID: 44803
Test Site: Eurofins Product Service GmbH
Operator: Mr. Liebich
Test Date: 2023-08-02
Operating Conditions: ambient temperature: 23 °Celsius
power input: 13.5 V DC
Antenna: Schwarzbeck BBHA 9120D, Vertical
Measurement Distance: 3m
Operational Mode: 1
EUT Configuration: 1
Note 1: --

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Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	2.459 GHz	Bluetooth carrier					
2	8.083 GHz	55.39 dBμV/m	73.98 dBμV/m	-18.59 dB	Pass	-160 degrees	3 m
3	11.536 GHz	60.31 dBμV/m	73.98 dBμV/m	-13.67 dB	Pass	-160 degrees	3 m

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	Angle	Height
1	2.459 GHz	Bluetooth carrier					
2	8.083 GHz	43.09 dBμV/m	53.98 dBμV/m	-10.89 dB	Pass	-160 degrees	3 m
3	11.536 GHz	47.3 dBμV/m	53.98 dBμV/m	-6.68 dB	Pass	-160 degrees	3 m

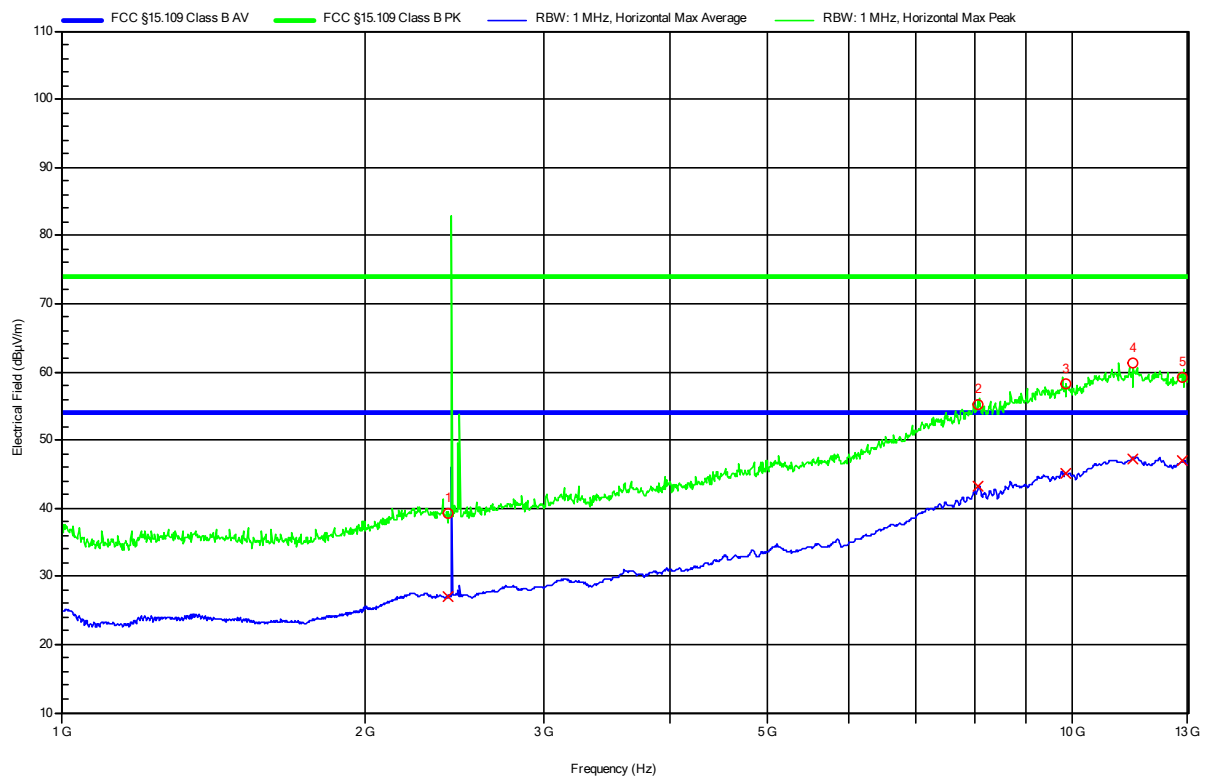
Test Report No.: G0M-2306-2102-EF0115B-V01

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

Radiated emissions according to FCC part 15B

Project Number:	G0M-2306-2102
Applicant:	Bridgestone Mobility Solutions B.V.
Model Description:	Telematic Accessory with Display + RFID + Bluetooth
Model:	PROI
Test Sample ID:	44803
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Liebich
Test Date:	2023-08-02
Operating Conditions:	ambient temperature: 23 °Celsius power input: 13.5 V DC
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement Distance:	3m
Operational Mode:	1
EUT Configuration:	1
Note 1:	--

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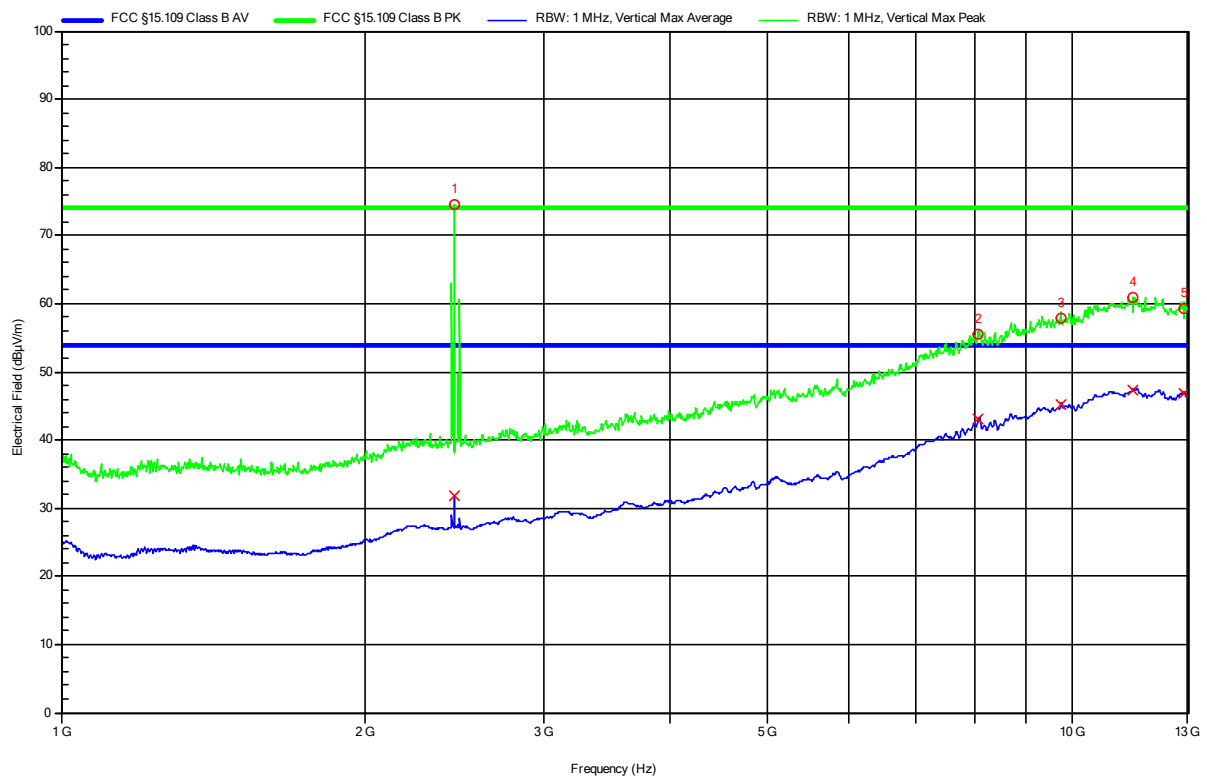
Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	2.412 GHz	Bluetooth carrier				-160 degrees	1 m
2	8.076 GHz	55.23 dBμV/m	73.98 dBμV/m	-18.75 dB	Pass	-160 degrees	1 m
3	9.852 GHz	58.25 dBμV/m	73.98 dBμV/m	-15.73 dB	Pass	-160 degrees	1 m
4	11.455 GHz	61.18 dBμV/m	73.98 dBμV/m	-12.8 dB	Pass	-160 degrees	1 m
5	12.859 GHz	59.2 dBμV/m	73.98 dBμV/m	-14.78 dB	Pass	-160 degrees	1 m

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	Angle	Height
1	2.412 GHz	Bluetooth carrier				-160 degrees	1 m
2	8.076 GHz	43.15 dBμV/m	53.98 dBμV/m	-10.83 dB	Pass	-160 degrees	1 m
3	9.852 GHz	45 dBμV/m	53.98 dBμV/m	-8.98 dB	Pass	-160 degrees	1 m
4	11.455 GHz	47.18 dBμV/m	53.98 dBμV/m	-6.8 dB	Pass	-160 degrees	1 m
5	12.859 GHz	46.91 dBμV/m	53.98 dBμV/m	-7.07 dB	Pass	-160 degrees	1 m

Radiated emissions according to FCC part 15B

Project Number:	G0M-2306-2102
Applicant:	Bridgestone Mobility Solutions B.V.
Model Description:	Telematic Accessory with Display + RFID + Bluetooth
Model:	PROI
Test Sample ID:	44803
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Liebich
Test Date:	2023-08-02
Operating Conditions:	ambient temperature: 23 °Celsius power input: 27 V DC
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement Distance:	3m
Operational Mode:	1
EUT Configuration:	1
Note 1:	--

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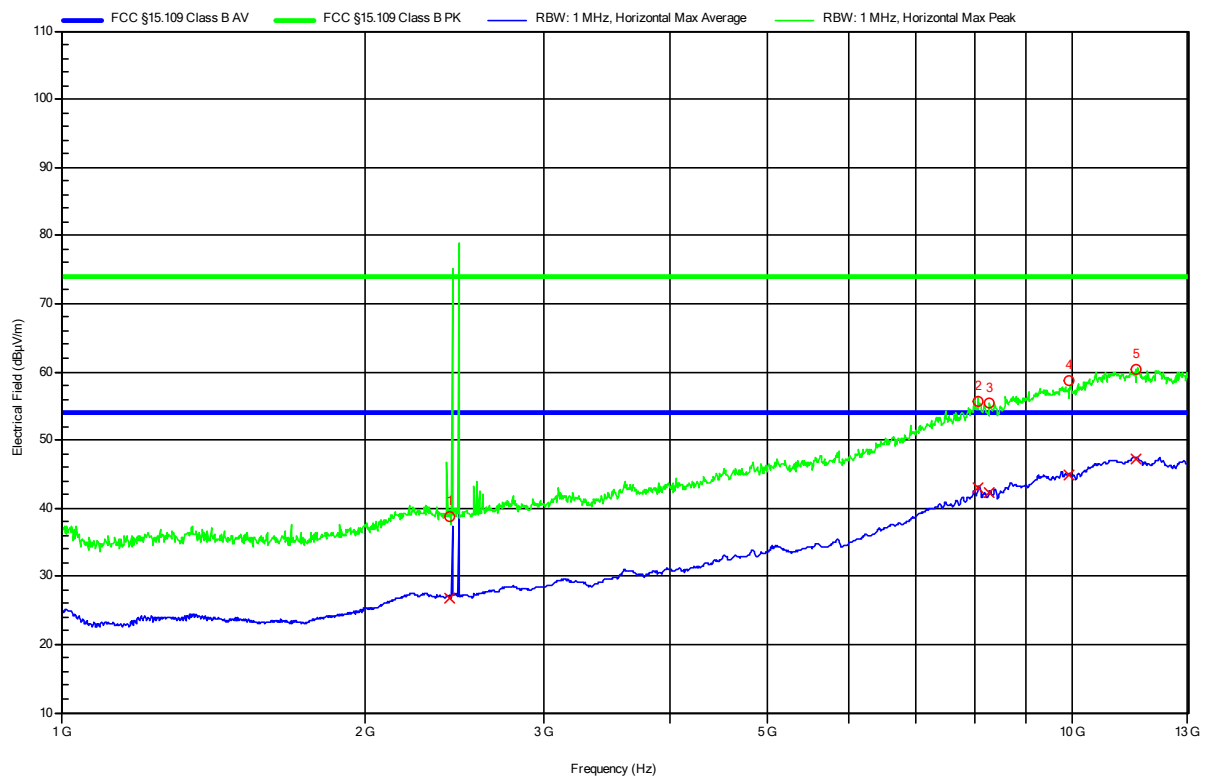
Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	2.451 GHz	Bluetooth carrier				-160 degrees	3 m
2	8.076 GHz	55.52 dBµV/m	73.98 dBµV/m	-18.46 dB	Pass	-160 degrees	3 m
3	9.753 GHz	57.83 dBµV/m	73.98 dBµV/m	-16.15 dB	Pass	-160 degrees	3 m
4	11.459 GHz	60.83 dBµV/m	73.98 dBµV/m	-13.15 dB	Pass	-160 degrees	3 m
5	12.861 GHz	59.33 dBµV/m	73.98 dBµV/m	-14.65 dB	Pass	-160 degrees	3 m

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	Angle	Height
1	2.451 GHz	Bluetooth carrier				-160 degrees	3 m
2	8.076 GHz	43.09 dBµV/m	53.98 dBµV/m	-10.89 dB	Pass	-160 degrees	3 m
3	9.753 GHz	45.21 dBµV/m	53.98 dBµV/m	-8.77 dB	Pass	-160 degrees	3 m
4	11.459 GHz	47.32 dBµV/m	53.98 dBµV/m	-6.66 dB	Pass	-160 degrees	3 m
5	12.861 GHz	46.83 dBµV/m	53.98 dBµV/m	-7.15 dB	Pass	-160 degrees	3 m

Radiated emissions according to FCC part 15B

Project Number:	G0M-2306-2102
Applicant:	Bridgestone Mobility Solutions B.V.
Model Description:	Telematic Accessory with Display + RFID + Bluetooth
Model:	PROI
Test Sample ID:	44803
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Liebich
Test Date:	2023-08-02
Operating Conditions:	ambient temperature: 23 °Celsius power input: 27 V DC
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement Distance:	3m
Operational Mode:	1
EUT Configuration:	1
Note 1:	--

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Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	2.425 GHz	Bluetooth carrier				-160 degrees	3 m
2	8.075 GHz	55.74 dBµV/m	73.98 dBµV/m	-18.24 dB	Pass	-160 degrees	3 m
3	8.284 GHz	55.38 dBµV/m	73.98 dBµV/m	-18.6 dB	Pass	-160 degrees	3 m
4	9.911 GHz	58.73 dBµV/m	73.98 dBµV/m	-15.25 dB	Pass	-160 degrees	3 m
5	11.553 GHz	60.42 dBµV/m	73.98 dBµV/m	-13.56 dB	Pass	-160 degrees	3 m

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	Angle	Height
1	2.425 GHz	Bluetooth carrier				-160 degrees	3 m
2	8.075 GHz	43.03 dBµV/m	53.98 dBµV/m	-10.95 dB	Pass	-160 degrees	3 m
3	8.284 GHz	42.33 dBµV/m	53.98 dBµV/m	-11.65 dB	Pass	-160 degrees	3 m
4	9.911 GHz	44.81 dBµV/m	53.98 dBµV/m	-9.17 dB	Pass	-160 degrees	3 m
5	11.553 GHz	47.31 dBµV/m	53.98 dBµV/m	-6.67 dB	Pass	-160 degrees	3 m

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
Radiated Emission	30 MHz to 200 MHz @ 3m, 5.1dB 200 MHz to 1G Hz @ 3m, 5.3dB >1G Hz to 13 GHz @3m, 5.95dB